

The two supplements to the Inventory of Planning Information are meant to be a quick reference guide to help the user locate facts and data published in reports or available within GovGuam. Three standard forms were used to describe these facts and data:

- . a form for tables
- . a form for surveys and questionnaire
- . a form for computer files

The latter two forms are easily understood. The form for tables is less straightforward. Exhibits D and E on pages 15 and 16 are examples of tables and the way they are detailed in this book. The section, How to Use the Supplements, contain a complete description.

G U A M
INVENTORY OF
PLANNING INFORMATION

SUPPLEMENT FOR
PHYSICAL PLANNING

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BUREAU OF PLANNING
AGANA, GUAM

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INTRODUCTION

This book is one of a three-volume set. The titles of the books are as follows:

Inventory of Planning Information
Inventory of Planning Information Supplement for Social and Economic Planning
Inventory of Planning Information Supplement for Physical Planning

The books are meant to be a reference guide for planners working for the Government of Guam. The introduction to the first volume explains the purpose and scope of the project and the methodology used in its compilation. The material described in these books includes master plans, reports, surveys, and data compilation forms of use to planners and other people doing research about Guam. The first book contains a general description of each planning document and gives the agency or library where the document is accessible to users. The latter two books contain a detailed description of the numbers and facts contained in the documents described in the first book.

SUBJECT AREAS

The information in all three books is organized by subject category. The subject areas, with their abbreviations which are used in the page numbering, are as follows:

Economics	ECN	Environment	ENV
Education	EDU	Land Use	LND
Health	HTH	Population	POP
Housing	HSG	Public Utilities	PUT
Population	POP	Recreation	REC
Safety and Defense	SAF	Transportation	TRN
Social	SOC		

The general information for all subject areas is contained in the first book; the detailed information in the latter two volumes is divided into physical planning areas and social and economic areas. In the list of subject areas given above, the ones on the left are in the social and economic planning Supplement, and the ones on the right are in the physical planning Supplement. Population detail is included in both volumes because it is basic to any kind of planning.

PAGE NUMBERING

A special system of page numbering was set up to make cross-referencing easier. These page numbers are located in the upper right-hand corner of the pages. Each page of the general description in the first volume is numbered by subject area and a sequence number within that area. Using the abbreviations for subject area given above, the first page of the Economics general descriptions is numbered ECN 1, the next ECN 2, and so on. The numbering within each new subject area starts from 1 again, so the first page of general descriptions for the next subject area, Education, is numbered EDU 1.

The pattern for page numbering in the Supplement is similar. The first report detailed under Economics is numbered ECN Detail 1; the second report is numbered ECN Detail 2, and so on. If the detailed information for a report takes more than one

page, the same number is used for the second and subsequent pages of that piece of detail. Only when the detailing of a new report begins does the number change.

The general description of each report or survey in the first volume ends with a sentence of the form, "For detail, see ECN Detail 3." To find it, the reader turns to the page or pages labeled ECN Detail 3 in the Supplement for Social and Economic Planning. There is a similar cross-referencing system from the detail in the second and third volumes back to the general descriptions in the first volume. At the top of the first page of each piece of detail, there is a phrase of the form, "General Reference ECN 3." The reader will find the general description related to the piece of detail on page ECN 3 of the Inventory of Planning Information.

NOTES

The following notes are Standard Notes used throughout the Detail Supplement:

- Note 1: Military data is included in that particular table or document.
- Note 2: The table or document does not specify if military data is included and it could not be determined.
- Note 3: The source of the table or document could not be determined and was not specified in the document.
- Note 4: The date of the table could not be determined and was not specified in the document.
- Note 5: When tables have information presented in percents and the actual numbers are also presented, the percent information is not specified; instead, a "5" is indicated in the "Notes" column.

HOW TO USE THIS BOOK

The section that follows gives an explanation and examples of how to use the Supplement. The reader is strongly urged to read it before attempting to use the information that follows.

HOW TO USE THE SUPPLEMENTS

The purpose of this Supplement is to provide the user with specific information about some of the reports, surveys, and data collection forms described in the Inventory of Planning Information. The Supplement allows the user of this Inventory to have at his fingertips a specific description of the information contained on the document or form in which he is interested. To illustrate, consider a user who needs to know where he can find population data for Guam and more specifically, the ethnic group breakdown of the population. The user would first scan the Population Section of the Inventory of Planning Information to determine what documents are available. Suppose the user found three population documents that could possibly contain an ethnic group breakdown. The description of these three documents would have a reference to their Detail descriptions in the Supplement. The user would then scan the Population Section of the Supplement to see if any of the population documents contained ethnic group information. If the user found that ethnic group information was available, he could then look at the Inventory of Planning Information to find out where the document is located. In summary, the Supplement permits the user to immediately determine the availability of the specific information requirements he has, without having to physically track down to all documents that may possibly contain what he needs to know.

HOW TO REFERENCE THE SUPPLEMENT FROM THE INVENTORY OF PLANNING INFORMATION

The Inventory of Planning Information contains General Descriptions of reports, surveys and forms. To reference the specific information found in these documents, the user must look at the Detail reference sentence located at the end of the document's General Description. This reference always says "For Detail, see... (area) Detail...(number)". This area and number corresponds to the reference number found on the upper right-hand corner of the Detail Information in the Supplement. The user simply flips through the appropriate supplement until he comes to the correct area and number. The Detail reference numbers for each area always start with 1 and run consecutively to the end of that area. When the Detail description for a document is more than one page, each page of the description will have the same Detail reference number. It is also possible to reference a document's general description from the Supplement. The first page of each Detail description gives a "general Information Reference Number" which allows the user to refer back to the document's description in the Inventory of Planning Information.

THE THREE FORMATS USED IN THE SUPPLEMENT

There are three different formats used for documenting the specific information found in the reports, surveys, and data collection forms listed in the General Description. Each of these three formats provides certain types of specific information depending upon the nature of the report, survey, or form. The distinction between the formats is this:

1. If the document has statistical tables, the table's rows and columns are described (Exhibit A).
2. If the document is a questionnaire, application, or other type of data collection form, the information contained on that document is described in narrative (Exhibit B).
3. If the report, survey, or form is computerized, the computer file format is described (Exhibit C).

The format used for data collection forms and the computer file format are fairly straightforward; the form used for describing statistical tables will not be familiar to most users. Following is a discussion of each of the forms, what information they contain, and how to use them. If the user does not have the patience to read the following discussion, it is strongly suggested that he glance at Exhibits D and E to understand the method of description used for detailing the statistical tables.

HOW TO READ THE DETAIL DESCRIPTIONS FOR STATISTICAL TABLES (EXHIBIT A)

Exhibit A is the form used to describe information that is the form of statistical tables. Normally, these tables appear in the published documents which are listed in the General Descriptions. The content of the documents themselves are explained in the general descriptions in the Inventory of Planning Information; the statistical tables included in the documents are described in the Supplement in the format shown in Exhibit A.

TITLE. This refers to the title of the document itself and is the same as the title specified in the Inventory of Planning Information. If the document is dated, the date will also be specified.

SOURCE AGENCY. This is the agency, department, organization, or person who prepared the document and is the same as the source specified in the Inventory of Planning Information.

COMPUTERIZED. This tells the user if the information in the report, survey or data collection form is available in machine-readable form, i.e. cards, tape or disk.

COMPUTER REFERENCE. If the information is computerized, this will tell the user where to find the computer file format description for that particular document.

DESCRIPTION OF TABLES. When the document contains statistical information in the form of tables, the tables are described in the format shown in Exhibit A. A table is generally a display of statistical information with headings across the top and along the side. Exhibits D and E have examples of the original statistical tables and the format used in describing these tables. It is advised that the user glance at these Exhibits before proceeding to the following narrative discussion.

Title/Date/Source. The title, date and source in the Description of Table(s) always refers to information about the table itself, not the document being detailed. If the source and/or date is not specified, that means the table's source and/or date is

the same as the document's. The table's date is the effective date of the information in the table. If the table's source and/or date could not be determined the "NOTES" column will so indicate with a "3" or "4". For further information, refer to the discussion on "NOTES".

Row Labels and Column Headings. Row labels are the labels located on the side of the table (usually the left side). In Exhibit D, the row labels are the Election District on the left side of the table. In Exhibit E, the row labels are the Age Groups on the left side of the table. Column Headings are the headings located on the top of the table. In Exhibit D, the column headings are Land Area, Population and Density. In Exhibit E, the column headings are Ethnicity (Chamorro, Filipino, Caucasian). When describing a statistical table, each label and heading is listed vertically down the form, each label or heading on a separate line. Exhibits D and E illustrate the method used to describe the row labels and column headings of their respective tables. The row labels and column headings of tables usually consist of major categories with subheadings under the major categories. In Exhibit E, Ethnicity is a major category and Chamorro, Filipino, Caucasian are subheadings.

Standard Terminology Adopted. Certain standard terminology was adopted in describing row labels and column headings. This is illustrated in Exhibits D and E and explained below.

19 Election Districts. When labels or headings are the standard 19 election districts, 19 municipalities, 19 villages, or 19 districts, they are not listed separately. Instead, a phrase such as "19 Election Districts" is used and always means that each election district is included separately in the labels or headings of the original table. This is illustrated in Exhibit D where the row labels of the table were described as the "19 Election Districts".

Fiscal Year 1960 thru Fiscal Year 1970. When labels or headings are consecutive calendar or fiscal years, the first year and the last year are

specified, indicating that the years in between are included. The standard phrase adopted is "FY 1960 thru FY 1970". This means that information is included for all the years between and including 1960 and 1970. If the notation "FY" does not precede the year, the years are Calendar Years and not Fiscal Years.

25 thru 54 Years in Increments of 10 Years. When the labels or headings are quantifiable amounts such as years, ages, or monetary amounts, and each quantifiable amount increases or decreases by the same amount, each separate label or heading is not listed. Refer to Exhibit E for illustration. The age groups, starting at 25 years old, increase by 10 years up to 55 years old. In the row labels this is indicated by "25 thru 54 Years in Increments of 10 Years". This means that there are age group breakdowns of 25 thru 34, 35 thru 44, and 45 thru 54. As can be seen, these age groups are listed in the original table in Exhibit E. This standard phrase is used with any quantifiable amount that increases or decreases by a fixed amount.

Above Categories are Each Broken Down Into. When categories have repetitive subheadings, the subheadings are specified only once. In Exhibit D, the years 1960 and 1970 are repeated for both Population and Density. This repetition was indicated by "(Above 2 categories are each broken down into)". This is a standard phrase which tells how many and which categories have the same subheadings.

Abbreviations. As a rule abbreviations were not used in the Inventory. The exception to this are the names of Government of Guam agencies or departments which have historically evolved, generally known abbreviations. For example, DPW, GEPA, PUAG, DPS, etc. For users who are not familiar with these abbreviations, Exhibit F is a list of all Government of Guam agencies and departments and the abbreviations used in this Inventory. If a department or agency is specified in the content of the detail description, it should be assumed that

it is a Government of Guam agency or department, unless otherwise stated.

Notes. The Notes column is used to explain anything relevant to the interpretation of the table. There are 5 Standard Notes (1 thru 5); other notes (6 and all subsequent numbers) are explained at the end of the Detail description for that document.

Standard Notes are:

Note 1: Military data is included in that particular table or document.

Note 2: The table or document does not specify if military data is included and it could not be determined.

Note 3: The source of the table could not be determined and was not specified in the document.

Note 4: The date of the table could not be determined and was not specified in the document.

Note 5: When tables have information presented in percents and the actual numbers are also presented, the percent information is not specified; instead, a "5" is indicated in the "Notes" column.

HOW TO READ THE DETAIL DESCRIPTIONS OF DATA COLLECTION FORMS (EXHIBIT B)

Exhibit B is the form used to describe information that is not in a table format. This would normally be application forms, questionnaires, and other types of data collection forms. These kinds of documents are described in narrative form specifying each piece of information contained on the document. Exhibit B is an example of an application form used in applying for a Building Permit.

TITLE. This refers to the title of the document itself and is the same as the title specified in the Inventory of Planning Information. If the document is dated, the date will also be specified here.

SOURCE AGENCY. This is the agency, department, organization, or person who prepared the document and is the same as the source specified in the Inventory of Planning Information.

COMPUTERIZED. This tells the user if the information in the report, survey or data collection form is computerized.

COMPUTER REFERENCE. If the information is computerized, this will tell the user where to find, in the Supplement, the Computer File Format description for that particular document.

INFORMATION CONTAINED ON THE DOCUMENT. This is a logical, narrative description of the specific information found on the data collection form, survey, or report.

HOW TO READ THE DETAIL DESCRIPTIONS OF COMPUTER FILE FORMAT FORMS (EXHIBIT C)

Exhibit C is the form used to describe information contained on a computer file associated with a report, survey, or data collection form described in the Inventory of Planning Information.

TYPE OF INFORMATION. This is usually the name of the computer file or a descriptive phrase indicating the kind of information on the file.

CONNECTED WITH: REPORT, SURVEY, FORM. This tells the user what type of document was computerized.

TITLE. This is the title of the document that was computerized.

NUMBER OF RECORDS IN FILE. This gives the user an indication of the number of records available in the computer file.

DATA AVAILABLE. This tells the user how the data is physically stored.

GENERAL INFORMATION. This is the cross-reference to the general description of the document that is computerized and refers the user back to the Inventory of Planning Information.

DETAIL INFORMATION. This is the cross-reference to the Supplement for a description of the reports or statistics produced from the computer file.

FILE FORMAT. This is a detailed description of the contents and the position of each data element in the file.

POSITIONS indicates the card columns or position on disk of each specific data element.

CONTENTS is a phrase describing each data element in the computer file.

NOTES are used to explain anything that is relevant to the explanation and use of the computer file.

Title: Boating Activity In the Territory Of Guam - 1974Source Agency: Gillham, Koebig and Koebig, Inc.Computerized: No Computer Reference: _____General Information: REC 4.

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Boats Per 1,000 Population; USCG Registration Records and Guam Harbor Police Registration Records.	Year - 1970 thru 1974	U.S. Average Hawaii Guam	
Table 2 Small Boats In the Territory Of Guam; DPS and Marianas Yacht Club.	Type Total	Number	6
Table 3 Distribution Of Craft Responding To Questionnaire, By Area	Area Total	Number Moored Number Dry Stored Total	5 7
The following 3 tables show Distribution of Craft:			
Table 4 ...By Area; DPS Registration Records	Area Total	Number Of Craft	5 7
Table 5 ...Responding To Questionnaire, By Storage Method.	Type Total	Number Of Responses In Harbors Along Coast Dry Stored	5 6
Table 6 ...By Storage Method.	Type Total	Number Of Craft In Harbor Along Coast Dry Stored	5 6

Title: Clinic Visit Record for Family Planning ServicesSource Agency: Maternal Child Health and Family Planning, Dept. of Public Health & Soc. Ser.Computerized: Yes Computer Reference: Not AvailableGeneral Information: HTH 13

Information Contained on the Document

1. PATIENT'S BACKGROUND: Full Name; Mailing Address; Phone Number; Date of Birth.
2. CLINIC VISITS: Patient Number; Clinic Number; Date of Visit; Type of Visit - initial visit, revisit (first visit this year), revisit (not first visit this year).
3. SERVICES PROVIDED: Medical Services - pap smear, pelvic exam, breast exam, blood pressure, pregnancy testing, VD testing, urinalysis, blood test, sterilization, infertility treatment, other; Counseling - sterilization, contraception, infertility, other.
4. REFERRALS: None; Abortion; Sterilization; Infertility Services; Other Medical Services; Social Services.
5. CONTRACEPTIVE METHOD AT THE END OF THIS VISIT: Method - oral, IUD, diaphragm, foam, rhythm, condom, injection, sterilization, other, none, interim method; If none, give reason - pregnant, other medical reason, seeking pregnancy, other.
6. NEXT APPOINTMENT: Date; Purpose - supply only, annual medical, other medical, other, no next appointment.
7. PREGNANCY HISTORY: Number of Live Births; Number of Fetal Deaths; Number of Children now living.
8. WELFARE STATUS: Are you or anyone in your family receiving Public Assistance - Yes or No; Are you or anyone in your family registered for Medicaid - Yes or No.
9. EDUCATION: Give Highest Grade Completed - none, elementary school (1 thru 8), high school (9 thru 12), college (13 thru 17), more than 4 years college.
10. PLACE OF BIRTH AND ORIGIN: City and State; Country if not U.S.; Latin American Origin or Descent - yes or no; Race - white, black, American Indian, other; Sex - female or male.
11. SOURCE OF REFERRAL: Outreach Worker; Other Family Planning Clinic; Hospital or Other Health Agency; Private Doctor or Nurse; Welfare Agency; Another Clinic Patient; Family or Friend; TV, Radio, Paper Ad; Other; Unknown.
12. CONTRACEPTIVE HISTORY: Have You Ever Used Any Method to Prevent Pregnancy - yes or no; Are You Currently Using Contraception - yes or no; Last Method Used - oral, IUD, diaphragm, foam, rhythm, condom, injection, other; Person Who Prescribed That Method - clinic, private doctor, drug store, other.

EXHIBIT C
HTH Detail 55

Type of Information: Input Card for Health Information System

Connected With:
Published Report
Survey
Form

X
X

Title: Health Information System

Data Available: On Cards

On Disk

Number of Records in File: Approx 1,500

General Information: HTH 3

Detail Information: HTH Detail 2

FILE FORMAT

Positions	Contents	Notes
1 - 9	Patient Number	
10 - 11	Provider Number	
12 - 17	Date Patient Seen	
18 - 21	Physician Code	
22	Nurse Code	
23	Patient Referred To	
24	Sex	
25 - 30	Date of Birth	
31 - 32	Payment Plan	
33 - 36	Diagnosis Code (up to 3 separate diagnoses)	
37 - 40		
41 - 44		
45 - 47	Surgery Code	
48	Race - Nationality	
49	Status (appointment, walk-in, emergency)	
50 - 51	Residence	
52	Referred From	
53	Activity	
54 - 55	Type of Visit	
56 - 57	Optional Codes	
58 - 59		
60 - 61		

ORIGINAL STATISTICAL TABLE

TABLE NO. 1X

EXHIBIT D

GUAM POPULATION, AREA AND DENSITY
BY ELECTION DISTRICT, 1960 AND 1970

Election District	Land Area in Square Miles	Population 1960	Population 1970	Density 1960	Density 1970
Guam	215	67,044	84,966 ^{1/}	321	407
Agana	1	1,642	2,119	1,642	2,119
Agana Hts.	1	3,210	3,156	3,210	3,156
Agat	11	3,107	4,308	282	431
Asan	6	3,053	2,629	509	438
Barrigada	9	5,430	6,356	603	706
Chalan Pago & Ordot	6	1,835	2,931	306	489
Dededo	30	5,126	10,780	171	359
Inarajan	19	1,730	1,897	91	100
Mangilao	10	1,965	3,228	197	323
Merizo	6	1,398	1,529	233	255
Mongmong, Toto & Maite	2	3,015	6,057	1,508	3,029
Piti	7	1,467	1,284	210	183
Santa Rita	16	12,126	8,109	758	477
Sinajana	1	3,862	3,506	3,862	3,506
Talofofo	17	1,352	1,935	80	114
Tamuning	6	5,944	10,218	991	1,703
Umatac	6	744	813	124	136
Yigo	35	7,682	11,542	219	330
Yona	20	2,356	2,599	118	130

DETAIL DESCRIPTION OF THE ABOVE TABLE

Title: Overall Economic Development Plan - Guam - 1975

Source Agency: Bureau of Planning

Computerized: No Computer References: _____

General Information: POP 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table No. IX Guam Population, Area and Density by Election District, 1960 and 1970; S. Dept. of Commerce, Bureau of the Census Publication PC(1)-A54	19 Election Districts Guam Total	Land Area in Square Miles Population Density (Above 2 Categories are each broken down into:) - 1960 - 1970	

ORIGINAL STATISTICAL TABLE

EXHIBIT E

GOVERNMENT OF GUAM DEPARTMENT AND AGENCY ABBREVIATIONS

The Three Major Ethnic Groups On Guam By Age

Age	E T H N I C I T Y		
	Chamorro	Filipino	Caucasian
All ages.....	44,300	15,400	7,200
0-15 yrs.....	19,700	5,500	2,000
16-19 yrs.....	4,300	900	400
20-24 yrs.....	3,900	1,000	1,000
25-34 yrs.....	4,700	2,600	1,400
35-44 yrs.....	4,400	1,900	1,100
45-54 yrs.....	3,500	2,200	700
55 yrs. & over.....	3,800	1,300	600
Median...age...yrs.	18.1	25.8	26.1

DETAILED DESCRIPTION OF ABOVE TABLE

Title: Population Facts of GuamSource Agency: Bureau of Labor Statistics, Dept. of LaborComputerized: NO Computer Reference: _____General Information: POP 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
The Three Major Ethnic Groups on Guam by Age	Age - All Ages - 0 thru 15 Years - 16 thru 19 Years - 20 thru 24 Years - 25 thru 54 Years in Increments of 10 Years - 55 Years and Over Median Age - Years	Ethnicity - Chamorro - Filipino - Caucasian	
	16		

Bureau of Planning = No abbreviation

Guam Energy Office = No abbreviation

Bureau of Budget and Management Research = No abbreviation

Territorial Crime Commission = TerrCrimeComm

Public Health and Social Services = PHSS

Department of Public Works = DPW

Department of Revenue and Taxation = DeptRevTax

Department of Public Safety = DPS

Department of Labor = DeptLabor

Department of Agriculture = DeptAgric

Department of Administration = DeptAdmin

Department of Commerce = DeptCommerce

Attorney General = AG

Guam Environmental Protection Agency = GEPA

Guam Economic Development Authority = GEDA

University of Guam = UOG

Guam Housing and Urban Renewal Authority = GHURA

Department of Education = DOE

Guam Housing Corporation = GHC

Commercial Port = CommPort

Guam Memorial Hospital = GMH

KGTF Public Television = KGTF-TV

Public Utility Agency of Guam = PUAG

Guam Power Authority = GPA

Guam Telephone Authority = GTA

Guam Airport Authority = No abbreviation

Vocational Rehabilitation = VocRehab

Guam Visitors Bureau = GVB

Territorial Planning Commission = TerrPlanComm

Guam Transit Authority = TransitAuth

Micronesia Area Research Center = MARC

LISTING OF DETAIL BY REPORT TITLE

PHYSICAL PLANNING

LISTING OF DETAIL BY REPORT TITLE

ENVIRONMENT

- 1 - National Emissions Data System (NEDS) Report Form
- 2 - Agana River - Interim Report, Harbors and Rivers in the Territory of Guam
- 3 - Detailed Project Report for Flood Control of Namo River, Guam
- 4 - Irrigation Feasibility Study for the Island of Guam
- 5 - Guam Fish and Wildlife Investigations
- 6 - Noise Measurement Survey Forms
- 7 - Guam Pesticides Profile - March 1975
- 8 - Application for Importation and Notice of Arrival of Pesticides and Devices
- 9 - Apra Harbor Pollution Study
- 10 - Historical Review of the Seismology of Guam - With References
- 11 - Detailed Project Report Shore Protection - Talofoto Beach
- 12 - Guam Master Plan Study Infrastructure Drain
- 13 - Typhoon Pamela: A Report on the Business Establishment Damage Survey - June 1976
- 14 - Typhoon Karen
- 15 - Meteorology of Guam with Particular Reference to the Typhoon of Sept. 1946
- 16 - Sewer Connection Survey Inspection
- 17 - Territory of Guam Water Quality Inventory Report to Congress - 1975
- 18 - Water Resources Data for Hawaii and Other Pacific Areas
- 19 - Guam Monthly Water Resources Memorandum
- 20 - Groundwater Resources of Guam: Occurrence and Development
- 21 - Report Covering the Surface Water Survey for Guam
- 22 - Water Supply Study for Government of Guam
- 23 - Water Resources Supplement to the Military Geology of Guam
- 24 - Local Climatological Data

LAND USE

- 1 - Territory of Guam Master Plan - 1966
- 2 - Guam Master Plan, Phase 1, Problems, Opportunities and Alternatives - June 1972
- 3 - Land Use Inventory Research Forms
- 4 - Volume 1 - A Study and Review of Laws Pertaining to Alien Investment On Guam
- 5 - Land Use Comparison of Zoning Districts and Master Plan
- 6 - Public Land Zoned for Commercial and Industrial Uses
- 7 - Inventory of Real Property Owned by the United States
- 8 - Manual of Surveying Practice
- 9 - Forms for Territorial Planning Commission and Subdivision Review Committee
- 10 - Improvement District Program - Procedure, Process and Flow
- 11 - Forms for Seashore Protection Commission
- 12 - Files on Seashore Protection Commission
- 13 - Commercial Property Record and Appraisal Card; Farm and Residential Property Appraisal Card
- 14 - Location Codes Used in Real Estate Tax Division Master Directory and New Assessment Worksheet
- 15 - Land Use Inventory

POPULATION

- 1 - General Population Characteristics - Guam
- 2 - Number of Inhabitants - Guam
- 3 - Population Estimates of Guam: September, 1975
- 4 - Basic Population Facts - Guam 1970
- 5 - Statistical Abstract - 1974 - Volume 5
- 6 - Guam Master Plan, Phase I
- 7 - Overall Economic Development Plan
- 8 - Preliminary Spatial Patterns of Demographic Variables and Socio-Economic Characteristics of Guam

PUBLIC UTILITIES

- 1 - The 1974 Statistical Abstract
- 2 - Bulky Metallic Wastes Management Plan for Guam
- 3 - Operational Plan for Solid Waste Management Territory of Guam
- 4 - Solid Waste Management in Guam
- 5 - GPA, Official Statement Relating to 1972 Issue Revenue Bonds (Series B)
- 6 - Computer Printouts and Reports
- 7 - Audit Report on Guam Power Authority (Number RG 76-01)
- 8 - Audit Report on Guam Telephone Authority
- 9 - Guam Master Plan; Infrastructure - Telephone
- 10 - Brief on Proposed Rate Increase
- 11 - Audit Report on Public Utility Agency of Guam
- 12 - Master Plan Report Guam Water System Improvements - FY1972 to FY1982
- 13 - Wastewater Facilities Plan - Preliminary Submittal Area I
- 14 - Wastewater Facilities Plan - Area I Pre-final Submittal
- 15 - Wastewater Facilities Plan - Preliminary Submittal Area II
- 16 - Wastewater Facilities Plan - Goals and Treatment Requirements
- 17 - Wastewater Facilities Plan - Terrestrial Flora and Terrestrial Fauna
- 18 - Umatac Wastewater District - Facilities Planning Study
- 19 - Agat-Santa Rita Wastewater District - Pre-Design Study
- 20 - Improvements to the Asan-Piti Sewerage System Pre-Design Study - 1973
- 21 - Sewerage Study for the Tumon-Tamuning Areas, Guam, M.I.
- 22 - Sewage Flow Analysis of the Southern Interceptor Link
- 23 - A Plan for an Integrated Wastewater System
- 24 - Guam Master Plan Infrastructure - Sewer
- 25 - Sewerage and Sewage Disposal Facilities Engineering Report

PUBLIC UTILITIES (Con't.)

- 30 - GPA Billing System Master Record - GPA Master Record Layout
- 31 - GTA Customer Billing Records - Accounts Receivable Master File
- 32 - PUAG Customer Billing Records

RECREATION

- 1 - Outdoor Recreation on Guam
- 2 - Volume II - Outdoor Recreation on Guam, Preliminary Report C, Demand for Outdoor Recreation
- 3 - Outdoor Recreation on Guam - October 1, 1971
- 4 - Outdoor Recreation on Guam - 1973
- 5 - A Master Plan for War in the Pacific National Historical Park, Guam
- 6 - Master Plan Proposed Guam National Seashore - Guam
- 7 - Park Inventory
- 8 - Boating Activity in the Territory of Guam - 1974
- 9 - Agana Marina Development Plan, April 1976
- 10 - Guam Historic Preservation Plan
- 11 - Guam Inventory of Archaeological Sites, Volume 1
- 12 - Guam Register of Historic Places Inventory Data Form

TRANSPORTATION

- 1 - Guam Master Plan, Transportation Factors
- 2 - Statistical Abstract, Guam 1974, Volume 5
- 3 - Transportation Planning Manual
- 4 - Transportation Program - Fiscal Year 1975 thru 1979
- 5 - Guam Comprehensive Transportation Plan
- 6 - Origin Destination Trip Count for Guam
- 7 - Proposed Strategy for Mass Transit on Guam

TRANSPORTATION (Con't.)

- 8 - Application of the Government of Guam for a Mass Transportation Capital Improvement Grant
- 9 - The Agana Traffic Circulation Plan
- 10 - Monthly Accident Analysis Report, January, 1975
- 11 - Functional Analysis Report
- 12 - Comprehensive Highway Safety Plan, 1976-1977
- 13 - Reports Submitted to U.S. Department of Transportation, Federal Highway Administration on Drivers Licensing, Vehicle Registration and Other Motor Vehicle Tax Receipts
- 14 - Reports Submitted to U.S. Department of Transportation, FHA on Motor - Fuel Consumption
- 15 - Reports Submitted to U.S. Department of Transportation Federal Highway Administration on Roadway Expenditure
- 16 - Report on Statewide Mileage, Travel, and Non-Fatal and Fatal Injury Accidents
- 16 - System Mileage Report
- 16 - Report Submitted to U.S. Department of Transportation, Federal Highway Administration on Miles of Roadway by Type
- 17 - Territorial Highway Study: Guam, American Samoa, Virgin Islands
- 18 - Master Plan for Guam International Air Terminal
- 19 - Monthly Passenger and Freight Summary Report
- 20 - Monthly Operations of Guam International Air Terminal Summary Report
- 21 - Master Plan, Commercial Port of Guam, Phase 1
- 22 - Commercial Port of Guam - Annual Report
- 23 - Monthly Ledger Tallies for Cargo Revenue Tons
- 24 - Annual Ledger Tallies for Revenue Tons
- 25 - Monthly Report on Ship Arrival and Cargo Revenue and Tonnage
- 26 - Container Report

TRANSPORTATION (Con't.)

- 27 - Highway Accident Statistics: January 1975 to Present - Accident Analysis Report
- 28 - Street Inventory of Major Island Roadways
- 29 - Vehicle Registration

Title: National Emissions Data System (NEDS) Report FormSource Agency: Guam Environmental Protection AgencyComputerized: Yes Computer Reference: (Files on Mainland)General Information: ENV 27Information Contained on the Document

Information contained on the form that is required by USEPA for their use but is not of use to local planners is not listed below. Examples: State ID Number, SIC Codes.

Establishment: Name, address, contact person, ID number.

Stack Data: Height (feet), diameter (feet), temperature, flow rate (cubic feet per second), plume height (if no stack), number of points with common stack.

Boiler: Design Capacity

(All of the categories below are for: Particulates, sulfur dioxide, nitrogen oxides, hydrocarbons, carbon monoxide)

Primary Control Equipment (codes)
 Secondary Control Equipment (codes)
 Estimated Control Efficiency (%)
 Emission Estimates (tons per year)
 Estimation Method (codes)
 Allowable Emissions (tons per year)

Percent of Annual Thruput for: Dec. - Feb., Mar. - May, June - Aug., Sept. - Nov

Normal Operating Time: Hours Per Day
 Days Per Week
 Weeks Per Year

Deate of Compliance Schedule (month, year)

Compliance Status Update (month, day, year)

Emissions Data: Sulfur Content (%)
 Ash Content (%)
 Heat Content

Operating Rate, Maximum Design Rate

Title: Agana River - Interim Report, Harbors and Rivers in the Territory of Guam
 Source Agency: U.S. Army Corps of Engineers
 Computerized: No Computer Reference: _____
 General Information: ENV 28

Information Contained on the Document

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Title: Detailed Project Report for Flood Control of Namo River Guam
 Source Agency: U.S. Army Corps of Engineers - February 1973
 Computerized: No Computer Reference: _____
 General Information: ENV 28

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Title/Date/Source	Row Labels	Column Headings	Notes
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NOTES:

Notes 1 thru 5 are standard notes, refer to Introduction.

6 - Tourists are travelers arriving for pleasure. Visitors include all travelers to Guam.

7 - Numbers represent U.S. Geological Survey Station Number.

8 - Lag - Elapsed time from beginning of unit rainfall to instant that summation hydrograph reaches 50% ultimate discharge.

9 - Terrain - Relationship of the length of the watercourse to the slope of the land.

Title: Irrigation Feasibility Study for the Island of Guam

Source Agency: Gillham, Koebig and Koebig, Inc.

Computerized: No Computer Reference: _____

General Information: ENV 32

Information Contained on the Document

STUDY PROCEDURE

1. Evaluation of northern Guam as to its agricultural potential Availability of irrigation water, and possible environmental impact of irrigation system development.
2. Evaluation of southern Guam by districts, in terms of present and possible future land use characteristics, and natural water resources.
3. Analysis of agricultural situation on southern Guam, including soil types, agricultural practices, crop types, and crop yields.
4. Analysis of irrigation water requirements, and evaluation of potential sources of supply in southern Guam.
5. Analysis of reservoir requirements in terms of geology, storage capacity, and yield.
6. Evaluation of distribution methods for irrigation systems.
7. Selection of a model district for analysis and preliminary design for the purposes of evaluating cost/benefit ratios, environmental impact, and operation and management programs.
8. A comparative analysis of three reservoir sites based on data obtained from step "7" above.
9. Review of possible methods of financing irrigation projects, including research into qualification for federal programs.
10. Evaluation of land requirements, water rights, and water resources management.

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Title/Date/Source	Row Labels	Column Headings	Notes
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Title/Date/Source	Row Labels	Column Headings	Notes
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Figure 14 Umatac Dam and Reservoir			
(Above 3 Figures each have the same row labels)			

NOTES:

Note 1 thru 5 are standard notes refer to introduction.

6 - List of Crops: Beans and Yard Beans; Cabbage; Cucumber; Eggplants; Onion (green); Tomato; Pepper; Melon; Cantaloupe; Bananas; Corn; Sweet Potato.

7 - Municipalities: Yona; Talofofo; Inarajan; Merizo; Umatac; Agat; Piti; Asan.

Title: Guam Fish and Wildlife Investigations
 Source Agency: Fish and Wildlife Division, Department of Agriculture
 Computerized: No Computer Reference: _____
 General Information: ENV 32

Information Contained on the Document

THIS REPORT COVERS TWELVE PROJECT SEGMENTS:

- Survey of Guam's Fish Population and Fishing Methods.
- Compilation of Checklist of the Food and Game Fishes of Guam.
- Habitat Improvement of Inshore Lagoons.
- A Study To Construct Small Boat Launching Facilities On Guam.
- Preparation For a Development Project To Rehabilitate the Masso River Reservoir To a Public Fishing and Recreation Area.
- Liminological Survey of the Major Streams and Rivers in Guam.
- Study Of the Doves Of Guam.
- Study Of the Guam Deer.
- Quail and Rail Life History Study.
- Study Of the Fruit Bat.
- Habitat Appraisal and Study of Exotics For Guam.
- Study Of the Wild Pigs Of Guam.

Title/Date/Source	Row Labels	Column Headings	Notes
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Title/Date/Source	Row Labels	Column Headings	Notes
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Title/Date/Source	Row Labels	Column Headings	Notes
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Title/Date/Source	Row Labels	Column Headings	Notes
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Title/Date/Source	Row Labels	Column Headings	Notes
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Title/Date/Source	Row Labels	Column Headings	Notes
Figure W2-4 Deer Spotlight Counts at Naval Magazine (FY1964 - FY1975 (Annual Averages) Showing Population Trends	Yearly Averages of Total Deer Counted Per 100 Miles Average Number Deer Counted Per 100 Miles Per Year By Sex and Age Group	Year - FY1964 thru FY1975 Number of Counts	
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NOTES:			
Notes 1 thru 5 are standard notes, refer to introduction.			
6 - 27 Species are: Assorted; Barracuda; Butterfly Fishes; Carangids; Dolphins; Engraulid; Eel; Flatfish; Goatfish; Groupers; Mackerel; Marlin; Mulletts; Neddlefishes; Octopus; Parrotfishes; Rabbitfishes; Rudderfish; Shark; Silver Perch; Snappers; Squirrelfishes; Surgeonfishes; Triggerfish; Tuna-Skipjack, fog tooth, blue fin, yellowfin; Wahoo; Wrasses.			
7 - Routes - Approximately 25 Miles each.			

Title: Noise Measurement Survey FormsSource Agency: GEPA Monitoring DivisionComputerized: No Computer Reference: _____General Information: ENV 33

Information Contained on the Document

General Survey Information

- I Survey Requested By (name, address, agency)
- II Instrumentation and Accessory Equipment
- Manufacturer
 - Sound level meter, octave filter set, microphone, accelerometer, pistonphone (serial number and type)
 - Cable, wind screen, nose cone, tripod, integrator (used? yes or no)
- III Environment
- Physical (temperature, pressure, db correction factor)
 - Spatial (describes the room or facility)
 - Test objects (such as machines, cars, etc)
 - Secondary noise (list and describe)
 - Observer position
 - Microphone location
 - Personnel exposed (directly, indirectly, name, address, distance to noise source, are ear protectors used, are audiometer tests performed - before employment, routinely)
- IV Damage Risk Levels (reprints Federal Occupational Safety and Health Standards)

Survey Test Results (one form for each microphone location)

- V Noise Test Results
- Broad Band (sampling time)
 - Octave Band (sampling time)
- (the results are in table format - see next page)
- VI Noise Evaluation
- Risk levels never exceeded (check if applicable)
 - Risk levels exceeded (show observed level and standards for each octave band and the sound level)
- VII Corrective Measures (check if applicable)
- Not required
 - Acoustic absorption
 - Decrease exposure
 - Other (specify)
- VIII Inspector (name, and date signed)

Title: Guam Pesticides Profile - March 1975Source Agency: Guam Environmental Protection AgencyComputerized: No Computer Reference: _____General Information: ENV 33

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Arable Land Available for Agricultural Use in Southern Guam	District - Yona - Talofofo - Inarajan - Merizo - Umatac (Above 5 Categories are each broken down into:) - Class - I - II - III	Gross Area (Acres) Percent Arable Net Arable (Acres) % Available for Agricultural Use Net Available for Agricultural Use (Acres)	
Table 2 Cultivated Crops Ranked According to their Share in the Total Annual Volume of Production (In Pounds)	Commodity - Bananas, Eating and Cooking - Watermelons - Tomatoes - Cucumbers - Tangerines - Melons (Cantaloupes, etc.) - Beans, Green (All Types) - Yams - Taro, Including Tips - Eggplant, Long and Round - Potatoes, Sweet - Lemons and Limes - Peppers, Hot and Sweet - Corn, Sweet and Local Variety - Cabbage, Chinese and Hed - Oranges - Papayas - Okra - Onion, Green - All Other Crops (Pumpkin, Radish, Mango, Star Apple, Sour Pickle, Breadfruit) Total	1969 - 1972 Annual Average	5

Title/Date/Source	Row Labels	Column Headings	Notes
Table 3 Lists of Farmers by the Districts and their Domestic Crops-1973	Number of Farmers	District Domestic Crops	

NOTES:

Note 1 thru 5 are standard notes, refer to introduction.

Title: Application for Importation and Notice of Arrival of Pesticides and Devices

Source Agency: Guam Environmental Protection Agency

Computerized: No Computer Reference:

General Information: ENV 34

Information Contained on the Document

ITEMS 1-14 ARE COMPLETED BY THE IMPORTER

1. Name, Address, Location of Consignee
2. Port of Entry (Airport or Commercial Port)
3. Carrier (Specify)
4. Carrier's Address and Phone Number
5. Brand Name of Product
6. USEPA Registration Number and Establishment Number
7. Total Net Weight
8. Unit Size and Quantity
9. Value
10. Name and Address of Manufacturer or Establishment
11. Customs Entry Number
12. Entry Date
13. Port of Origin
14. Name and Address of Shipper (if other than manufacturer) Signature of Importer

ITEMS 15-20 ARE COMPLETED BY GEPA PESTICIDES OFFICER

15. Pesticide Dealers License Number
16. Pesticide Applicators Certificate Number
17. Guam EPA Action on Request (approved, denied, other)
18. Remarks
19. Signature of GEPA Pesticide Officer
20. Date of Signature

ITEMS 21-24 ARE COMPLETED BY THE CUSTOMS INSPECTOR

21. Customs Action on Shipment (released, refused entry, other)
22. Remarks
23. Signature of Customs Inspector
24. Date of Signature

Title: Apra Harbor Pollution Study

Source Agency: U.S. Navy Public Work Center Guam, M.I.

Computerized: No Computer Reference: _____

General Information: ENV 34

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Appendix A Apra Harbor Pollution Study Vicinity Map	Map Showing - Apra Harbor - Santa Rita		
Appendix B Apra Harbor Pollution Study, Pollution Source	Map Showing Pollution Sources in - Military - Government of Guam - Local Industry and Commerce		1
Appendix C Apra Harbor Pollution Study Proposed Corrective Measures Military Activities	Map Showing - New Sewer Line and Manholes - New Sewage Pump Station - New Septic Tank and Leaching Field - Existing Sewer Line and Manholes - Existing Sewage Pump Station		1
Appendix D Apra Harbor Study Temperature Readings at the Piti Power Plant and YFP-10 Power Barge	Dates - September 8, 1971 thru September 16, 1971	Location Time Depth Temperature (°F)	

NOTES:

Note 1 thru 5 are standard notes, refer to introduction.

Title: Historical Review of the Seismology of Guam with References

Source Agency: Pacific Islands Engineers for U.S. Navy Bureau of Yards and Docks

Computerized: No Computer Reference: _____

General Information: ENV 35

Information Contained on the Document

THE ROSSI-FOREL SCALE OF EARTHQUAKE INTENSITIES

- I - Feeble Tremor - felt only by a few persons on upper floors, or by experienced observers.
- II - Extremely Feeble Shock - felt by small number of persons at rest.
- III - Very Feeble Shock - felt by several persons at rest; strong enough for direction or duration to be appreciable.
- IV - Feeble Shock - felt by persons in motion; disturbance of movable objects; creaking of building.
- V - Shock of Moderate Intensity - felt generally by everyone; felt strongly on upper floors of tall buildings; light objects may be slightly disturbed.
- VI - Fairly Strong Shock - general awakening of those asleep; ringing of swinging bells, oscillation of hanging objects; stopping of pendulum clocks.
- VII - Strong Shock - overturn of movable objects; ringing of bells; general panic; some damage in poorly built or deteriorated buildings; landslides on steep banks; cracks in road surfaces.
- VIII - Very Strong Shock - furniture and movable objects overturned, trees strongly agitated; flow of wells may be affected; spouting of sand and water in soft ground; stone and concrete walls cracked; slides in river banks
- IX - Extremely Strong Shock - partial or total destruction of buildings

The Modified Mercalli Scale of 1931 was developed by Harry O. Wood and Frank Neumann in the Bulletin of the Seismological Society of America, Stanford University, Volume 21, no. 4, December 1931, pg. 277-283.

Title/Date/Source	Row Labels	Column Headings	Notes
Plate 1 Frequency and Violence of Earthquakes in Relation to Ocean Depths; After Freeman, I.R. Earthquake Damage and Earthquake Insurance, p. 509.	Map Showing the Observed Frequency of Strong Earthquakes		
Plate 2 Earthquake Epicenters, Southern Marianas Area; Charles F. Richter, Seismological Institute, California Institute of Technology, 1922 - 1948.	Dates - 1909 thru 1945	Shocks of Shallow depth Shocks of Intermediate depth Deep Shocks (Above 3 Categories are each broken down into:) - Time - Latitude (North) - Longitude (East) - Magnitude - Depth (km)	6
Plate 3 Southern Marianas Area, Earthquake Epicenters and Ocean Depths.	Map Showing - Shocks at Shallow Depth - Shocks at Intermediate Depth - Deep Shocks		
Table of Earthquake Frequencies at Agana, Island of Guam (The Number of Days with Earthquakes, by Months and Years)	Month - January thru December Total	Year - 1892 thru 1897 - 1901 thru 1903	
Conversion From Rossi Forel Scale to Modified Mercalli Scale for Strongest Shocks, 1825 - 1941	Date - April 1825 thru December 1936	Estimated Intensity Rossi - Forel Scale Equivalent Intensity Modified Mercalli Scale	
Plate 7 Graph Showing Frequency and Magnitude of Strong Earthquake on Guam, 1825 - 1941	Intensity Rossi - Forel Scale - I thru X	Year - 1830 thru 1940 in Increments of 10 Years	

Title/Date/Source	Row Labels	Column Headings	Notes
Plate 8 Perceptible and Non - Perceptible Earthquakes on Guam, 1924 - 1941 (Bar Graph Showing Total Shocks Perceptible Shocks); Manila Observatory Bulletin, Phillipine Islands Weather Bureau	Number of Earthquakes - 50 thru 450 in Increments of 50	Year - 1924 thru 1941	

Title: Detailed Project Report Shore Protection-Talofofo Beach

Source Agency: U.S. Army Corps of Engineers

Computerized: No Computer Reference:

General Information: ENV 35

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 8 Percent Frequency of Wave Height Vs. Wave Period (Annual) Period: 1963-1970	Wave Period (Seconds) - Less than 8 - 8 thru 9 - 9 thru 13 in - increments of 2 - Over 13 - Total Percentage	Wave Height (Feet) - Less than 3 - 3 thru 11 - 12 and More - Total	
Table 9 Typhoons Affecting Guam (1946 to May 1970)	Date - 11 Apr. 1968 - 13 Nov. 1967 - 5 Sept. 1964 - 25 Dec. 1964 - 11 July 1963 - 29 Apr. 1963 - 11 Nov. 1962 - 10 Sept. 1961 - 15 Nov. 1957 - 10 Aug. 1953 - 17 Nov. 1949 - 21 Sept. 1946	Name CPA Wind (Knots) CTR Wind At CPA (Knots)	6 7 8
Table 10 Monthly Occurrences of Typhoons Affecting Guam (1900-1970)	Month - Jan. thru Dec.	Occurrences	
Table 11 Effects of Alternative Actions	Consideration - Social - Economic - Environmental	No Action Revetment Plan Off Shore Breakwater Plan	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 12 Estimate of Project First Cost	Items	Unit Arrantity Unit Cost Item Cost Total Cost	
Table 13 Apportionment of Project First Cost	Total First Cost	Federal Share Non Federal Share	
Table 14 Annual Use of Talofofo Bay	Activity - Swimming - Surfing - Visiting Scenic Site - Picnicking - Horse Back Riding - Total	Annual Use	
Table 15 Existing Use of Talofofo Bay	Activities - Swimming - Visiting Scenic Site - Picnicking - Total	Resident Tourist Total	
Table 16 Projected Resident and Tourist Use of Talofofo	Year - 1972 - 1975 - 1990 - 2020	Resident Use Tourist Use (Above 2 Categories are each broken down into:) - With Improvement - Without Improvement	
Table 17 Average Annual Benefits 1. Residents 2. Tourists	Year - 1975 - 1990 - 2020	Existing Users - No. of Visitors - Benefit at 25 Percent of \$0.50 Per Visit New Users - No. of Visitors - Benefit at \$0.50 Per Visit Equivalent Average Annual Benefit	

Title/Date/Source	Row Labels	Column Headings	Notes
Plate 1 Talofofo Bay, Guam Plan of Improvement	Map Showing - Existing Fence - Existing Guard Rail - Existing Sign - Existing Power Pole - Existing Coconut Tree - Existing Kamani Tree		
Plate 2 Talofofo Beach Park Plan	Diagram Showing - Beach Revetment - Family Picnic Area - Group Picnic Area - Children Plan Area - Comfort Station - Play Courts		
Figure 3 Location Map	Map Showing - Talofofo River - Project Site - Gayloup Pt. - Route 4 - Asalonso River - Talofofo Bay - Gayloup Cove		
Figure 4 Wave Exposure Chart Talofofo Bay, Guam	Map of Guam Showing - Talofofo Bay		
Figure 5 Wave Rose; U.S. Naval Weather Service Command, 1963 to 1970	Chart Showing High, Medium, Low of Wave Rose		
Figure 6 Shoreline Changes Talofofo Bay, Guam	Map Showing - Existing Fence - Existing Guard Rail - Existing Sign - Existing Power Pole - Existing Coconut Tree - Existing Kamani Tree		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 7 Benefit Cost Comparison Bar Graph Showing First Cost, Annual Cost, Annual Benefit, Net Benefit	First Cost in Ten Thousands of Dollars	Average Annual Cost and Benefits in Thousands of Dollars	
Figure 8 Talofofo Bay, Guam Work Schedule (Bar Graph)	Items - Coordination - Plans and Specifications - Advertising - Award of Contract - Construction	Months	

NOTES:

6 - CPA - Closest Points of Approach to Guam.

7 - Wind - Maximum Sustained Wind Speed on Guam.

8 - CTR Wind at CPA - Maximum Sustained Wind near the center of Typhoon.

Title: Guam Master Plan Study Infrastructure DrainSource Agency: Greenleaf/Telesca - AHNComputerized: NO Computer Reference: _____General Information: ENV 36

Information Contained on the Document

Plates 1 thru 13: Maps Showing the Drainage Areas

The are Listed as Follows:

Plate 1: Index of Drainage Area.

Plate 2: Drainage Areas 1 to 5 - Fonte, Asan, Matgue, Taguac, Masso.

Plate 3: Drainage Areas 10 to 17 - Namo, Togcha, Salinas, Finile, Gaan, Anan, Chaligan, Taleyfac. 6

Plate 4: Drainage Areas 18 to 24 - Telayag, Sagua, Madoyan, Agaga, Asmafines, Sella, Cetti.

Plate 5: Drainage Areas 25 to 29 - La Sa Fua, Umatac, Toguan, Bile, Pigua.

Plate 6: Drainage Areas 30 to 35 - Geus, Julog, Manell, Syafe, Sumay, Liyog.

Plate 7: Drainage Areas 36 to 38 - Ahayan, Agfayan, Inarajan.

Plate 8: Drainage Areas 39 - Pauliluc.

Plate 9: Drainage Areas 40 to 42 - Asalonso, Ugum, Talofoto.

Plate 10: Drainage Areas 43 to 44 - Togcha River and Ylig River.

Plate 11: Drainage Areas 45 - Pago River.

Plate 12: Drainage Areas 47 - Dededo.

Plate 13 - Drainage Areas 47 to 49 - Harmon Sink, Tamuning, Agana Swamp.

Title/Date/Source

Row Labels

Column Headings

Notes

Plate 14
Typical Landscaped
Channel

Cross Section of
Diagram Showing
- Depth of Flow at
Discharge
- Growth During Low
Flows
- Rock Lining
- Mounds Shield Chan-
nel
- Minimum Height
- Park/Recreation Uses

Table of Drainage Areas

Areas 1 thru 4

Drainage Basin
Point of Dishcharge
Total Drainage Area
(Acre)
Length of Maximum
Travel (mi.)
Average Slope (Percent)
Reference Interval (yr.)
Ultimate Usage
- Percent Open
- Percent Developed
Run Off Coefficient
Time of Concentration
(mi.)
Rainfall Intensity
(in/hr.)
Design Discharge (cfs)

Table of Preliminary
ChannelsList of Drainage Areas
and Designation

Design Discharge (cfs)
Channel Type
Length (ft.)
Bottom Width (ft.)
Side Slope
Depth of Flow (ft.)
Velocity (ft/sec.)
Right-of-Way (ft.)

5

NOTES:

Notes 1 thru 5 are standard notes, refer to Introduction.

6 - There is no map showing the drainage areas 6 thru 9, and 46; Sasa Aguada, Laguas Ahantano, Dededo.

Typhoon Pamela: A Report On the Business Establishment Damage Survey -

Title: June 1976

Source Agency: Economic Research Center, Dept. Of Commerce

Computerized: No Computer Reference:

General Information: ENV 37

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
The following 3 tables have the some row labels:			
Table I Value Of Damage Caused By Typhoon Pamela To Business Establishments On Guam	Total - Construction - Manufacturing - Wholesale Trade - Retail Trade - Selected Services	Total Plant Equipment Merchandise (Above 4 categories are each broken down into:) - Inventory or Appraised Value - Damage - Percent Of Value	6
Table II Wage and Salary Employment On Guam Before and After Typhoon Pamela		Employment - Pre-Typhoon - Post-Typhoon	5 6
Table III Number Of Business Establishments Damaged By Typhoon Pamela		Number Of Total Damaged	5 6 7
Table IV Number Of Business Establishments Damaged By Typhoon Pamela	Type Of Damage - Plant (Building) - Equipment - Merchandise	Total Establishments Selected Industry - Construction - Manufacturing - Wholesale Trade - Retail Trade - Services	

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

6. Total Industries excludes: agriculture, finance, insurance and real estate; and transportation and public utilities operated by private enterprises.

7. Damaged business establishments are establishments with damage to either building, equipment or merchandise or a combination of two or all types of damage.

Title: Typhoon Karen

Source Agency: Frank C. Stone, UOG

Computerized: No Computer Reference:

General Information: ENV 38

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table I Total Gross Business Receipts (In Millions of Dollars); Five Years Plan, Page 97-98	Year - FY1957 to FY1958 thru FY1961 to FY1962	Gross Receipts	
Table II Comparison of Gross Business Receipts of the Retailing and Contracting Trades: 1957-1962 (In Millions of Dollars); Focus on Guam: An Economic Study Prepared by the Bank of American NT and SA (San Francisco, N.D.), Page 6	Year - FY1957 to FY1958 thru FY1961 to FY1962	Retail Trade Contracting	
Table III Barometric Pressure Logs from Typhoon Karen; "Special Report Typhoon Karen," Page 5	Reporting Station - Anderson Air Force Base - Naval Air Station - U.S. Weather Bureau - FWC/JTWC - Naval Magazine	Low Pressure Time	
Table IV Typhoon Karen's Maximum Wind Belts North and South of Center; "Special Report Typhoon Karen," Page 6	Wind Speed (Knots) North of Wind Eye. Wind Speed (Knots) South of Wind Eye (Above 2 categories are each broken down into:) - Sustained - 125 - 150 - 125 - 80	Width of Wind Band (Nautical Miles) Distance from Center (Nautical Miles)	

Title/Date/Source	Row Labels	Column Headings	Notes
Table IX Government of Guam General Fund Revenue (Amount in Dollars); Economic Development of the Territory of Guam, Page 205	Year - 1959 thru 1965	Amount	
Table X Government of Guam Rehabilitation Plan (Figures in Thousands of Dollars); "Reconstruction," Page 26	List of Proposed Projects	Funds Requested	
Appendix A Best Track Typhoon Karen November 1962; FWC/JTWC, "Special Report Typhoon Karen," Appendix 3	Chart Showing - 6 Hours Best Track Positions - Speed in Knots - Intensity in Knots - Typhoon or Tropical Storm - Formative Stage		
Appendix B Typhoon Karen November 1962 Position and Forecast Verification Data; FWC/JTWC, "Special Report Typhoon Karen," Page 14 Appendix (4)	DTG	Storm Position - Latitude - Longitude 24 Hour Error Degree Distance 48 Hour Error Degree Distance	
Appendix C Typhoon Karen, November 1962; FWC/JTWC "Special Report Typhoon Karen."	Map of Guam Showing Wind Direction and Speed of Typhoon Karen		
Appendix D Barograph Trace Typhoon Karen, November 1962, Guam, M.I.; FWC/JTWC, "Special Report Typhoon Karen."	Barograph Trace Showing Barometric Pressure of Typhoon Karen		

Title/Date/Source	Row Labels	Column Headings	Notes
	- 60 - Gusts - 165 - 180 - 165 - 125 - 100		
Table V Losses to Private Citizens and Businesses (Figures in Dollars); Guam Department of Land Management, "Losses Sustained in Guam: Typhoon Karen - November 11-12, 1962," 1963	Category of Loss Total	Value of Losses	
Table VI Government of Guam Losses and Expenses Resulting from Typhoon Karen; "Losses Sustained in Guam	List of Various Categories of Losses Total	Value in Dollars	
Table VII Red Cross Aid to Guam Following Typhoon Karen (Amount in Dollars); "Best of Friends That's OEP and American Red Cross," Pacific Profile (November, 1963), Page 16	Villages - 22 Villages - Anderson	Families Assisted Amount	6
Table VIII Reconstruction Projects Funded Through the Office of Emergency Planning (Amounts in Dollars); "Best of Friends That's OEP and American Red Cross," Page 15	List of Various Categories of Projects	Amount	

Title/Date/Source	Row Labels	Column Headings	Notes
Appendix E Best Track Typhoon Olive 27-30 April 1963; FWC/JTWC, "Special Report Typhoon Olive"	Chart Showing - 6 Hours Best Track Positions - Speed in Knots - Intensity in Knots - Typhoon or Tropical Storm - Formative Stage		
Appendix F Typhoon Olive, FWC/JTWC, "Special Report Typhoon Olive"	Barograph Trace Showing Barometric Pressure of Typhoon Olive		
Appendix X thru L; FY1965 thru 1970 Rehabilitation Projects (each year has a separate table); Office of the Coordinator of Federal Programs, Government of Guam	Rehab. Projects - Educational Facilities - Village Development - Public Works - Resources Development - Water System - Power - Telephone System Total for each Year	Amount Loans Grants	
NOTES:			
6 - 22 Villages - Mongmong, Toto, Maite, Chalan Pago and Ordot are Listed as Separate Villages.			

Title: Meteorology of Guam with Particular Reference to the Typhoon of Sept. 1946Source Agency: Pacific Islands EngineersComputerized: No Computer Reference: _____General Information: ENV 38

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Island of Guam	Map of Guam Showing - 1st Class Road - 2nd Class Road - 3rd Class Road - Point to Point Mileage - Villages		
Wind Pressure Chart, Typhoon of September 21, 1946	Pressure - 0 thru 50 in Increments of 10	Time - 12:00 a.m. thru 5:30 p.m. in Increments of 30 Minutes	
Wind Direction Chart, Typhoon of September 21, 1946; Graph Showing Average Wind Direction	Wind Direction - 0° thru 360° in Incre- ments of 45°	Time - 12:00 a.m. thru 5:30 p.m. in Increments of 30 Minutes	
Wind Velocity Chart, Typhoon of September 21, 1946; Graph Showing Maximum Gust Velocity, Average Wind Velocity and Minimum Gust Velo- city	Wind Speed (Knots) - 0 thru 80 in Incre- ments of 10	Time - 12:00 a.m. thru 5:30 p.m. in Increments of 30 Minutes	
Typical Quonset Hut Tie Down Method	Diagram Showing the Method of Construction of Quonset Buildings Tied Down by Means of Concrete Pedestal Blocks Cast Against the Side Sheeting		

Title/Date/Source	Row Labels	Column Headings	Notes
Naval Newspaper Printing Plant	Sketches of Cross Sec- tional Elevation and Plan at End of Struc- tures Illustrating the Effect of Typhoon Upon this Plant		
Typical Multi-Arch Quon- set Hut Column Failure	Sketch Showing a Typical Frame Distortion of One Multi-Arch Quonset Hut		
Plan View of Footing Movement Butler Type Hanger #10 - Harmon Army Air Field	Drawing Showing the Damage to One of the Butler Type Framed Buildings		
Distortion of Side Wall Bracing, Butler Type Hanger No. 10 - Harmon Field	Drawing Illustrating the Damage to the Side Wall Bracing of a Butler Type Framed Building		
Damage to Apra Harbor Breakwater	Drawings Showing Profiles and More Detailed Infor- mation Covering Typhoon Damage to the Breakwater		
The following list of photographs were taken immediately after the typhoon and illustrate some of the types of structural damage.			
1 - Typical plywood construction - intact			
2 - Plywood construction, footing collapse distortion			
3 - 40' x 100' Quonset junior officers wardroom ComMarianas			
4 - Plywood construction, little flying debris			
5 - Stiff frame plywood construction			
6 - 40' x 100' Quonsets Asan			
7 - Flag pole Marine Service Depot			
8 - Typical column distortion multi-arch quonset			
9 - Naval News Building 40' x 100' quonset			
10 - Typical column distortion multi-arch quonset			

- 11 - Typical hangars collapsed at Harmon Field
- 12 - Hangars No. 9 and 10 Harmon Field
- 13 - Rear View - Hangars No. 7 and 8 Harmon Field
- 14 - Hangars No. 5 and 6 Harmon Field
- 15 - Hangars No. 7 and 8 Harmon Field
- 16 - Rear View - Hangar No. 6 Harmon Field
- 17 - Multi-Arch Supply Quonset ComMarianas
- 18 - Effect of wind at 70 mph
- 19 - Hangars No. 9 and 10 Harmon Field
- 20 - Typical Butler hangar truss distortion
- 21 - Failure of sill and plate anchorage
- 22 - Rear of hangars
- 23 - Rear of hangar No. 7 Harmon Field
- 24 - 40' x 100' Quonset Marine Supply Depot - Agana
- 25 - 40' x 100' Quonsets Marine Supply Depot - Agana
- 26 - Butler type hangar Harmon Field
- 27 - Hangar with canvas roof Orote Air Field
- 28 - Hangar No. 5 Harmon Field
- 29 - Butler type hangar Harmon Field
- 30 - Tie rod uprooting due to extreme displacement of footing pads Butler type hanger - Harmon Field
- 31 - Footing pad, sliding displacement Butler type hanger - Harmon Field
- 32 - Typical column collapse multi-arch quonset
- 33 - Footing pad uplift Butler type hangar - Harmon Field
- 34 - Footing pad resettlement Butler type hangar - Harmon Field
- 35 - Multi-Arch quonset and Supply Building ComMarianas

Title: Sewer Connection Survey InspectionSource Agency: Guam Environmental Protection AgencyComputerized: No Computer Reference: _____General Information: ENV 39

Information Contained on the Document

Owner's name, mailing address and phone number

Property address, lot number, block number, tract number

Building use

GEPA (septic tank and sewer connection) Permit number and date

Sewer Available: (yes or no), date became available (date), more than five years ago (yes or no).

Type of Disposal System (check if applicable)

- Sewer Connection (if so, date of connection and PUAG account number)
- Septic Tank, completely adequate
- Septic Tank, inadequate or defective
- Cesspool, completely adequate
- Cesspool, inadequate or defective
- Other (specify)

Observations

Conclusions

Inspectors Signature

Date of Signature

Title: Territory of Guam Water Quality Inventory Report to Congress - 1975

Source Agency: Guam Environmental Protection Agency

Computerized: No Computer Reference:

General Information: ENV 41

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1a Water Consumption: FY 1964-1973 (Millions of Gallons); Public Utilities Agency of Guam	Year - FY 1964 thru FY 1973	Residential Commercial and - Government Total	
Table 1b Water Meters in Use: FY 1964-1973; Public Utilities Agency of Guam			
Table 1c Revenue from Water Sales: FY 1964-1973 (\$ Thousands); Public Utilities Agency of Guam			
(Above 3 tables have the same row labels and column headings)			
Table 2 Population of Guam: Earliest Census to 1970; U.S. Census of Population; 1970	Census Date - 1970 Apr. 1st thru 1901 in decrements of 10 years	Population - Number - Increase over Preceding Period - Number	5 6
Table 3 Population by Election District: 1960 and 1970; U.S. Census of Population, 1970	Guam Total - 19 Election Districts	1970 1960	5 7
Figure 4 Physiographic Divisions of Guam. Figure taken from Tracey <u>et al</u> (1959)	Map of Guam Showing - Rough Summit Land - Mountainous Land - Dissected Sloping and Rolling Land - Hilly Land - Plateau Land		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 5 Map Showing Groundwater Areas in Guam. Figure taken from Ward and Brookhart (1962)	- Interior Basin and Broken Land - Coastal Lowland and Valley Floors Map of Guam Showing Groundwater Areas in Guam		
Table 4 Summarizing Data from the Drinking Water Distri- bution Systems of Various Communities from March 1974 thru February 1975. Contaminated Samples are those with Total Coliform Counts Exceeding four per 100 ml.	Communities Sample	Total Number of Samples taken during the year Total Number of Conta- minated Samples Range (TC/100 ml) Con. Sample	
Table 5 Coliform Bacteria Popu- lation of Various Production Wells	List of Various Production Wells	Total Number of Samples Total Number of Conta- minated Samples Range (TC/100 of Contaminated Samples)	8
Figure 6 Map Showing the Locations of the Major Point Source Discharges on Guam and EPA Monitoring Stations	Map of Guam Showing - Groundwater Monitoring Station - Primary Network Monitoring Station - Recreational Waters Station - Storm Drains - Storm Water Ponding Basin - Sanitary Landfill Sewage Treatment - Plant with Ground Discharge - Sewage Treatment Plant with Surface Water Discharge - Untreated Sewage Outfall - Thermal Discharge from a Power Generating Plant		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 7 Chloride Content of Water Pumped from Basal and Para-Basal Lens, Northern Guam, 1974	- Industrial Discharge (Oil, Separator, Washwater, etc.) - Map of Guam Showing - Well - Spring - Area where volcanic rock occur above sea level - Line of equal chloride content of basal and para-basal groundwater in milligrams per liter interval variable		
Figure 8 Unconfined Basal Water Ghyben-Herzberg Lens Typical of Northern Guam	Schematic showing how excessive withdrawal of fresh water from an unconfined lens may produce a high saline water source		
Table 6 Monitoring Results of Selected Production Wells, February 1975	List of Wells	Temperature °C Condition umho x 10 ² Phosphorus mg/l Nitrate mg/l Chloride mg/l Sulfate mg/l Total Hardness mg/l CaCO ₃ Ca Hardness mg/l CaCO ₃ Total Coliform TC/100	
Table 7 Rivers Monitored by GEPA	River - Agana - Big Gautali-Atantano - Namo (Ajuga) - Umatac - Geus - Inarajan - Talofoto-Ugum - Togcha - Ylig - Pago-Lonfit	Drainage Area Square Miles Flow in M.G.D. (1951-67) - Maximum - Minimum	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 8 Fecal Coliform Bacteria Station 9, Surface, Pago River	Date	FC/100 ml Date FC/100 ml	
Table 9 Dissolved Oxygen - Pago River	Station - 8 - 9 - 10 (Above 3 categories are each broken down into:) - Surface - Middle - Bottom	Dissolved Oxygen (mg/l) - Date - Mean	
Table 10 Flow - Pago River Measurements taken at Station 6 - USGS Gage Station	Date	Flow (CFS)	
Table 11 Nitrate - Pago River	Station - 8 - 9 - 10 (Above 3 categories are each broken down into:) - Surface - Middle - Bottom	Nitrate (mg/l) - Date - Mean Flow	
Table 12 Phosphorus - Pago River			
Table 13 Suspended Solids - Pago River			
Above 3 tables have the same column headings and row labels)			
Figure 9 Fecal Coliform per 100 ml Pago River Outfall versus Date of Sampling. Figure Showing Water Quality Standards.	Fecal Coliform per 100 ml - 2,000,000 - 1,000,000 - 100,000 - 10,000 - 2,000 - 1,000 - 200	Date	
Figure 10 Dissolved Oxygen (mg/l) and Flow (CFS) Versus Date Monitoring Midstream Station 9 Offshore of the STP Outfall. Flow	Dissolved Oxygen (mg/l) - 0.0 thru 10.0 Flow (CFS) - 2 thru 20	Date of Monitoring - Midstream - Surface - Middle - Bottom - Flow	

Title/Date/Source	Row Labels	Column Headings	Notes
Measured Upstream at Station 6 (USGS Gage Station)			
Figure 11 Means of Dissolved Oxygen (mg/l) Versus Sampling Station, Pago River (calculated from 6 monthly samplings)	Dissolved Oxygen mg/l - 30 thru 60	Station Surface Middle Bottom Flow	
Figure 12 Mean Value of Suspended Solids Versus Sampling Stations, Pago River	Suspended Solids mg/100 ml - 0 thru 10,000 in increments of 1,000	Station Surface Middle Bottom Flow	
Figure 13 Mean Value of NO ₃ (mg/l) Versus Sampling Station, Pago River Calculated from Quarterly Samplings	NO ₃ (mg/l) - 0 thru 1.5 in increments of .5	Station Surface Middle Bottom	
Figure 14 Mean Values of Phosphorus (mg/l) Versus Sampling Stations Calculated from 3 Quarterly Samplings	Phosphorus mg/l - 0 thru 4	Station Surface Middle Bottom	
Figure 15 Graph Showing the Monthly Fecal Coliform Levels Found in the Rivers of the Primary Monitoring Network from October 1974 thru February 1975	Fecal Coliform MR 100 Milliliters - 200 - 400 - 1,000 thru 5,000 in increments of 500	Agana River Gautali-Atantano Namo River Umatac River Geus River Inarajan River Talofofo River Togcha River Ylig River Pago River	
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TES:

Notes 1 thru 5 are standard notes, refer to Introduction.

- Includes native men enlisted in U.S. Navy, but excludes United States Naval Station Personnel
- Includes Cocos Island.
- All contaminated samples were from Yigo well which was the object of special investigation by Monitoring Division. All three other wells had no contaminated samples.
- Map also shows numbers of starfish killed between 1969 and August 1970 in different areas.
- 1-Distribution projection relative to past growth.
- 2-1990 municipality population based on percentage of 1970 total population and on the premise that 1990 total population will be 272,000.
- 3-Percentage change from 1970 to 1990 based on policy, terrain restrictions and other factors as noted.
- 4-Population - 1990

Title: Water Resources Data for Hawaii and Other Pacific AreasSource Agency: United States Geological SurveyComputerized: No Computer Reference: _____General Information: ENV 42

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NOTES:

6 - Names of Rivers:

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 Umatac River At Umatac
 Geus River Near Merizo
 Inarajan River Near Inarajan
 Tinaga River Near Inarajan
 Imong River Near Agat
 Almagosa Spring Near Agat
 Almagosa River Near Agat
 Maulap River Near Agat
 Fena Dam Spillway Near Agat
 Ylig River Near Yona
 Pago River Near Ordot

Title: Guam Monthly Water Resources MemorandumSource Agency: U.S. Geological Survey and Guam E.P.A.Computerized: No Computer Reference: _____General Information: ENV 42

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Title: Groundwater Resources of Guam: Occurrence and Development

Source Agency: John F. Mink for Public Utility Agency of Guam

Computerized: No Computer Reference:

General Information: ENV 43

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Title: Report Covering the Surface Water Survey for Guam

Source Agency: Austin Smith and Associates for the Public Utility Agency of Guam

Computerized: No Computer Reference:

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Exhibits 31 thru 52 Chemical Analysis of Guams Rivers, Reserviors Streams and Springs	Sample Number Sample Source Date Collected Stream Flow PH Phenol-Alk (CaCO ₃) Methol-Alk (CaCO ₃) Color Turbidity Calcium Hardness Flouride (F) Total Dissolved Solids Chlorides (Cl) Total Hardness Iron (Fe) Boron (B)	Findings Remarks	

Title/Date/Source	Row Labels	Column Headings	Notes
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NOTES:

7 - Average Annual Rainfall based on 12 Complete Years at AAFB and 9 Complete Years in Dedado.

6 - Regions: Agat to Asan; Central Area North; Yona to Umatac

8 - MPN is Most Probable Number of Caliform Bacteria Present

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NOTES:

7 - Average Annual Rainfall based on 12 Complete Years at AAFB and 9 Complete Years in Dededo.

6 - Regions: Agat to Asan; Central Area North; Yona to Umatac

8 - MPN is Most Probable Number of Caliform Bacteria Present

Title: Water Supply Study for Government of Guam

Source Agency: Kennedy Engineers for U.S. Navy Bureau of Yards and Docks

Computerized: No Computer Reference:

General Information: ENV 43

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EXHIBIT 1 - ANDERSON AIR FORCE BASE WATER SUPPLY: HEADQUARTERS 863 D MEDICAL GROUP, USAF: SEPTEMBER 12, 1961: An evaluation of the potable water supply system at AAHFB which concludes that water from the system is a health hazard and is unpalatable, and recommends updating the water supply system.

EXHIBIT 2 - A LETTER FROM THE CHIEF OF SANITATION TO KENNEDY ENGINEERS ABOUT WATER-BORNE DISEASES THAT ARE ENDEMIC ON GUAM AND ARE RESISTANT TO DESTRUCTION BY CHLORINATION TO VARYING DEGRESS.

EXHIBIT 3 - INTESTINAL PARASITES REPORT JANUARY TO SEPTEMBER 1960: A chart showing the number of positive and Contact RX intestinal parasites in Dededo, Yigo and Tumon-Tamuning.

EXHIBIT 4 - REPORTS SHOWINGS THE RESULTS OF WATER ANALYSES: Specified Springs and Streams on Guam Analysed by Pacific Engineering Laboratory for the U.S. Navy-Guam Master Plan for water supply system, 1964; Anderson Air Force Base Wells - water quality laboratory results 1964; Water Analysis - Air Force Wells, Guam, 1962; Well Water Analyses for Naval Communication Station and Formost Wells.

EXHIBIT 5 - BACTERIOLOGIC ANALYSIS OF WATER MEMBRANE FILTER COUNT, E COLIFORM COLONIES: Table Showing Location, date and count of bacteria.

EXHIBIT 6 - GROUND WATER SOURCES NORTHERN GUAM: Map of Northern Guam Showing Identification of well, well-proposed, well-under construction, well-in use, well-stand by status, well-abandoned, maui well-in use, spring - in use, spring - abandoned or undeveloped, geological zones, principle roads, cliffline, shore line, reef line.

EXHIBIT 7 - EXCEPT FROM "RECONNAISSANCE GEOLOGY OF GUAM AND PROBLEMS OF WATER SUPPLY AND FUEL STORAGE"; PRESTON E. CLOUD JR. APRIL 1951: Discussion of the problems of extracting fresh water floating on the top of sea water without disturbing the natural equilibrium.

EXHIBIT 8 - PROJECT COMPUTATIONS AND CRITERIA: Civilian Population, water consumption, Ugum River, Reservoir, dams etc. Are described in detail.

EXHIBIT 9 - WATER RESOURCES: Map of Guam Showing Drilled Well; Drilled Well-plugged or Abandoned; Basal Tunnel; Dry Well; Dry Well-Drilled or Abandoned; Spring; Stream-Gaging Station; Historical Water Sources from USGS Water Resources Supplement, subtitle 19-1962; Table Showing Source (well, spring, test spring); Chloride Parts Per Million; Capacity.

Title: Water Resources Supplement to the Hydrogeology of Guam
 Source Agency: U.S. Army Corps of Engineers and U.S. Geological Survey
 Computerized: No Computer Reference: _____
 General Information: ENV 44

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Rocks of Guam	Geological Age - Recent and Pleistocene - Pleistocene and Pliocene - Miocene - Eocene and Oligocene	Formation General Character and Distribution Water-Bearing Characteristics	6
Figure 2 Graph of Monthly Discharge in the Pago River, 1952-1957	Mean Discharge in Cubic Feet Per Second - 0 thru 200 in Increments of 50	Year - 1952 thru 1957	
Figure 3 Schematic Section Showing Occurrence of Basal Ground Water in Northern Guam	Diagram Showing - Permeable Limestone - Impermeable Volcanic Rock - Brackish Water		7
Figure 4 Map Showing Ground Water Areas in Guam and the Locations of Geologic Sections	Map of Guam Showing - The Various Ground Water Areas - Locations of Geologic Sections		
Figure 5 Geologic Sections in the Ground Water Areas in Guam	Diagrams of Ground Water Areas Showing - Alluvium - Mariana Limestone - Barrigada Limestone - Volcanic Rocks - Alifan Limestone		
Table 2 Chemical Analyses of Water, Guam (Results in Parts Per Million)	Date Analyst's Name List of Chemicals	Source - Umatac River - Inarajan River - Pauliluc River	

Title/Date/Source	Row Labels	Column Headings	Notes
		- Fena Reservoir - Ugum River - Ylig River - Pago River - Names of 6 Springs - Names of 9 Wells - Tumon Tunnel - ACEORP Tunnel - Northwest - 4	
Surface Water Supply of Guam, 1951-1958, 1. Maximum and Minimum Discharge for the Fiscal Years 1954-1958 Each River has a Separate Table	Year - FY1957 thru FY1958	Maximum Minimum (Above 2 Categories are each broken down into:) - Date - Discharge (cfs) - Gage Height (feet)	8
Surface Water Supply of Guam 1951-1958, 2. Discharge, in Cubic Feet Per Second for Each Day of the Years 1953 thru 1958. Each Year has a Separate Table and Each River has a Separate Table for Each Year	Day - 1st thru 31st	Month - June thru July	8

8 - Names of Rivers: 1, La Sa Fua River; 2, Umatac River at Umatac; 3, Geus River near Merizo; 4, Inarajan River near Inarajan; 5, Pauliluc River near Inarajan; 6, Tolaeyuus River near Agat; 7, Almayosa Springs near Agat; 8, Fena Dam spillway near Agat; 9, Talofoto River near Talofoto; 10, Ugum River; 11, Ylig River near Yona; 12, Lonfit River near Ordof; 13, Pago River near Ordof.

Appendix B Records of Wells, Tunnels, and Springs

This contains information on the sources of ground water in Guam. The records were obtained from unpublished materials compiled by H.T. Stearn and A.M. Piper, and from files of military and civil agencies in Guam and from field investigations. There are tables showing pumpage for each month of the years 1951 thru 1957 in millions of gallons. There are tables showing the chloride content in the water and driller's logs showing depth in feet and the type of soil in particular depths. Numbers 1 thru 154 are assigned to wells, springs and tunnels, and 201 to 216 are assigned to test holes, and from 154 to 200 is for new installations.

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

6 - General character and distribution, and water bearing characteristics are given in small paragraphs.

7 - Because of the mixing up of fresh water with sea water, most of the water discharging at the shore is brackish.

Title: Local Climatological Data: Monthly Summary, Annual Summary
 Source Agency: Environmental Data Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce
 Computerized: No Computer Reference: _____
 General Information: ENV 45

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
<u>MONTHLY SUMMARY</u>			
Daily Summary	Day of the Month Total Average	Temperature - Maximum - Minimum - Average - Departure from Normal Average - Average Dew Point Degree Days - Heating (Begins July 1) - Cooling (Begins January 1) Weather Type Codes Snow on the Ground at Midnight Precipitation Average Station Pressure Wind - Resultant Direction - Resultant Speed - Average Speed - Fastest Mile - Speed - Direction Sunshine - Minutes - Percent of Possible Sky Cover (Tenths) - Sunrise to Sunset - Midnight to Midnight	
Summary by Hours	Local Time - 0100 hrs to 2200 hrs in increments of 0300 hrs	Averages - Sky Cover (Tenths) - Station Pressure - Temperature	

Title/Date/Source	Row Labels	Column Headings	Notes
Hourly Precipitation	Day of the Month	- Air - Wet Bulb - Dew Point - Relative Humidity - Wind Speed - Resultant Wind - Direction - Speed 24 Hours	
Observations at Three - Hour Intervals	Day of the Month - 0100 hrs to 2200 hrs in increments of 0300 hrs	Sky Cover (Tenths) Cloud Ceiling Visibility - Whole Miles - Sixteenths of a Mile Weather Type Codes Temperature - Air - Wet Bulb - Dew Point Relative Humidity Wind Direction Wind Speed	
<u>ANNUAL SUMMARY</u>			
Meteorological Date for the Current Year	Month - January through December Year	Temperature - Averages - Daily Maximum - Daily Minimum - Monthly - Extremes - Highest - Date of Highest - Lowest - Date of Lowest Degree Days - Heating - Cooling Precipitation - Total - Greatest in 24 hrs - Date of Greatest	

Title/Date/Source	Row Labels	Column Headings	Notes
		Relative Humidity - 0400 hrs - 1000 hrs - 1600 hrs - 2200 hrs Wind - Resultant - Direction - Speed - Average Speed - Fastest Mile - Speed - Direction - Date Sunshine, Percent of Possible Average Sky Cover, Sunrise to Sunset Number of Days - Sunrise to Sunset - Clear - Partly Cloudy - Cloudy - Precipitation of 0.01 inch or more - Thunderstorms - Heavy Fog (Visibility $\frac{1}{4}$ mile or less) - Maximum Temperature of 90 Degrees and Above Average Station Pressure	
Normals, Means, and Extremes	Month - January through December Year	Temperature - Normal - Daily Maximum - Daily Minimum - Monthly - Extremes - Highest - Recorded - Year - Lowest - Recorded - Year Normal Degree Days - Heating - Cooling Precipitation - Normal - Maximum Monthly	

Title/Date/Source	Row Labels	Column Headings	Notes
		- Recorded - Year - Minimum Monthly - Recorded - Year Relative Humidity - 0400 - 1000 - 1600 - 2200 Wind - Mean Speed - Prevailing Direction - Fastest Mile - Speed - Direction - Year Sunshine, Percent of Possible Mean Sky Number of Days - Sunrise to Sunset - Near - Partly Cloudy - Cloudy - Precipitation of 0.01 inch or more - Thunderstorms (%) - Heavy Fog, Visibility of Quarter - Mile or Less (%) - Maximum Temperature 90 Degrees and Above Average Station Pressure	
	(The Following Five Tables Have the Same Row Labels and Column Headings:) Average Temperature Precipitation Heating Degree Days Cooling Degree Days Snowfall	1956 to Present (When Data has been Recorded)	Month - January thru December Annual

Title: Territory of Guam Master Plan - 1966

Source Agency: Territorial Planning Commission

Computerized: No Computer Reference:

General Information: LND 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
The Following Two Diagrams Have The Same Row Labels			
Island Of Guam, Existing Land Use - 1965 (Diagram)	Roads Residential Conservation Commercial Industrial Public and Semi-Public Military Non-Urban		1
Island of Guam, Future Land Use - 1965 to 1985 (Diagram)			
Existing Land Use Map - 1965	Map of Guam Showing - Residential (Single- Family) - Residential (Multi- Family) - Commercial - Industrial - Public - Semi-Public - Military - Conservation - Agriculture - Mixed Wood - Open Area - Coconut - Swamp-Marsh - Major Roads and High- ways - Reservoir and Streams		1
NOTES:			

Notes 1 thru 5 are standard notes, refer to introduction.

Title: Guam Master Plan, Phase 1, Problems, Opportunities and Alternatives - June 1972

Source Agency: Greenleaf/Telesca - Ahn.

Computerized: No Computer Reference:

General Information: LND 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Existing Zoning	19 Election Districts Total	One-Family Dwelling Multiple Dwelling Planned Unit Development Commercial Limited Industrial Heavy Industry Total Urban Uses - Acreage Agriculture Open - Conservation Military - Acreage Total Acreage	1 5
Population Capacity of Existing Land Use Zoning	19 Election Districts Total	R1 (5 DU/AC) R2 (12 DU/AC) PUD (12 DU/AC) (Above 3 Categories are each broken down into:) - Zoned Acres - DU Capacity Total DU Capacity Total Population Capacity (5/DU)	
Land Suitability Criterion: Slope; Territorial Planning Commission	19 Election Districts Total	0 - 15% 16 - 35% 35% and Over (Above 3 Categories are each broken down into:) - Acres	5
Civilian Land Use Analysis (1966-1970); Quinton-Budlong Territorial Planning Commission	19 Election Districts Total	Residential - 1966 - No. of Structures - No. of Acres - 1970 - No. of Structures - Estimated Acreage	5 6

Title/Date/Source

Row Labels

Column Headings

Notes

Non-Military Land Uses
Population Series A, B
and C (Each Population
Series Have Separate
Tables)

Residential
- Single Family
- Multi-Unit
Commercial
- Retail
- Services
- Offices (Banks, Professional, General)
- Wholesale
Industrial
- Light
- Heavy
Institutional
- General (Medical Facilities, Libraries, Fire, Police, Museums, Theaters)
- Educational
- Elementary
- Junior High
- Senior High
- Other (College, Private, etc.)
Parks
- Neighborhood
- Community
- Regional
Total Urban Generated
Uses

Commercial
Industrial
Public and Semi Public
(Above 3 Categories are
each broken down into:)
- 1966
- No. of Structures
- No. of Acres
- 1970
- Estimated Acreage
Total Urban Uses
- 1966
- No. of Structures
- No. of Acres
- 1970
- No. of Structures
- Estimated Acreage
Total Acreage
Data Validity

Ratio
1970 thru 1990 in
Increments of 5 Years

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

6 - Number of structure denotes "physically separated structures", not individual dwelling units.

Title: Land Use Inventory Research Forms
 Source Agency: Bureau Of PL
 Computerized: Yes Computer Reference: LND Detail 15
 General Information: LND 3

Information Contained on the Document

Phase I: Land Management Standard Form

A list of property containing the following information:

Land Square	Area
Section	Document Number
Lot Number	Certificate Number
Owner	

Phase II: Revenue and Taxation Standard Form

1. IDENTIFICATION: Name Of Owner; Document Number; Commercial Use; Land Use (Check One) - residential, commercial, vacant; Lot Number; Land Area; Land Value.
2. BUILDING CLASS: Type Of Building (Check One) - 1 family, 2 family, 3 to 6 apartments, motel, Quonset, prefab; Physical Conditions (Check One) - good, normal, fair, poor; Stories (Check One) - 1, 1½, 2, 2½; Number Of Apartments; Number Of Bedrooms; Building Area; Building Value; Exemption; Date Of Exemption.

Title: Volume 1 - A Study and Review of Laws Pertaining to Alien Investment on Guam

Source Agency: Stanford Research Institute

Computerized: No Computer Reference: _____

General Information: LND 3

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 3 U.S. and Guamanian Percentage Distributions of Employment by Economic Sector (1972); ERC, Dept. of Commerce and U.S. Bureau of Labor Statistics	Sector - Agriculture, Fishing, Mining - Construction - Finance, Insurance, Real Estate - Other Services - Manufacturing - Transportation, Utilities - Wholesaling, Retailing - Government (Including Military) Total	Total Employment (Percent) Private Sector Employment (Percent) (Above 2 Categories are each broken down into:) - U.S. - Guam	1
Table 4 U.S. Federal Funds Expended on Guam, and Their Economic Impact (Millions of Dollars); Basic Expenditure Data: "Federal Outlays in Trusts and Territories", Office of Economic Opportunity, Washington D.C. (Feb. 1972, Dec. 1972, and Dec. 1973) and SRI and ComNavMar	Spending Agency - Dept. of Defense - Civilian Pay - Active Duty Pay - Prime Supply Contracts - Prime Service Contracts - Other Service and Supply Contracts - Prime Construction Contracts - Subtotal Amount into Guam - Other Federal Agencies - Federal Income Tax Returns - Total - Less Selected Expenditures by Guamanians - Net Economic Impact	Multiplier Year - FY1971 thru FY1973 - Amount - Impact	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 9 Guam Private Land Ownership Pattern as of April 1974, By Nationality Group (Land Area in Hectares)	Cadastral Village - Umatac - Merizo - Talofofo - Inarajan - Yona - Sinajana - Piti - Asan - Agat - Yigo - Barrigada - Dededo - Agana - Machanao Total	Area in Hectares - Off Island United States - Japanese - Other Alien - Subtotal - Guamanian - Total	5 6
Table 10 Land Prices in Guam (Dollars per Square Meter) Dept. of Land Management, Guam	Cadastral Village - Umatac - Merizo - Inarajan - Talofofo - Yona - Sinajana - Piti - Asan - Agat - Barrigada - Dededo - Agana - Machanao	Price Range - 1971 thru 1974 Typical Prices - July thru Oct. 1973	7
Table 11 Guam Land Ownership Patterns According to Different Sources; Dept. of Land Management	GovGuam Records Navy Records Common Assumption	Private Government of Guam U.S. Federal Total (Above 4 Categories are each broken down into:) - Percent - Acres	

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

6 - Approximately 53,000 acres; according to U.S. Navy sources 51,600 acres are private land in Guam.

7 - Price range for properties purchased by off island U.S. and alien controlled interests.

Title: Land Use Comparison of Zoning Districts and Master Plan

Source Agency: Territorial Planning Commission

Computerized: No Computer Reference: _____

General Information: LND 3

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Zoning	17 Villages	Residential - R-1 - R-2 - Total Commercial - Total Industrial - M-1 Light - M-2 Heavy - M 1-2 Total Urban Use	5 6
Future Land Use Master Plan	17 Villages	Residential - Very Low - Low - Medium Low - Medium High - High - Very High - Total Commercial - Neigh. - General - Resort - Professional - Total Industrial - M-1 (light) - M-2 (heavy) - M1-2 Total Urban Total	5 6

NOTES:

6 - 17 Villages: Agana; Agat/Santa Rita; Asan/Piti; Barrigada; Chalan Pago/Ordot; Dededo; Inarajan; Mangilao; Merizo; Mongmong/Toto/Maite; Sinajana/Agana Heights; Talofofo; Tamuning; Tumon/Harmon; Umatac; Yigo; Yona.

Title: Public Land Zoned for Commercial and Industrial Uses

Source Agency: Department of Land Management

Computerized: No Computer Reference:

General Information: LND 4

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
The Following 2 Reports Each Use the Same Row Labels and Column Head- ings With Slight Varia- tions			
Land Use by 19 Municipa- lities	Property Identification (Lot and Block Number)	Title Size (Square Miles and Acres) Land Value Zone Percent in Use Date of Land Use Survey DWG Number Land Use (Name of Build- ing or Facility) Remarks	6
and			
Land Use by Type			

NOTES:

6 - Type of Land Use

1. Education
 - Kindergartens and Elementary Schools
 - Junior High and Senior High Schools
 - Vocational Technical and Rehabilitation
 - Colleges and Universities
 - Libraries, Museums, Research Centers
2. Health/Social Services
 - Hospital and Health Centers
 - Social Services
 - Cemeteries
3. Safety and Village Administration
 - Police and Fire
 - Commissionership
 - Civil Defense
4. Utility/Public Works
 - Water System
 - Power System

- Sewer System
- Telephone System
- Public Works
- 5. Recreation/Conservation
 - Parks and Marinas
 - Conservation Areas
- 6. Agriculture/Fishery
 - Agriculture Projects
 - Fishery
- 7. Miscellaneous
 - Housing Tracts
 - Industrial Sites
 - Air-Sea Ports

Title: Inventory of Real Property Owned by the United States

Source Agency: United States Department of Interior National Park Service

Computerized: No Computer Reference: _____

General Information: LND 4

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 22 Federally Owned Structures and Facilities by Conti- nent or Country and Pre- dominant Usage	Part I and Part II - American Samoa - Canal Zone - Canton and Enderbury Islands - Guam	Cost in Thousand Dollars - Airfield Pavements - Harbor and Port Facilities - Power Development and Distribution - Reclamation and Irri- gation - Flood Control and Na- vigation - Storage (Other than Buildings) - Industrial - Service - Research and Develop- ment - Utility Systems - Communication Systems - Navigation and Traffic Aids - Roads and Bridges - Railroads - Monuments and Memori- als - Miscellaneous Military Facilities - Other Structure and Facilities - Total Structure and Facilities	
Table 20 Federally Owned Buildings by Continent or Country and Predominant Usage (Ex- cluding DOD Military Functions)	Part I and II - American Samoa - Canal Zone - Canton and Enderbury Islands - Guam	Office Hospital Prison School Other Institutions Housing Storage Industrial	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 18 Federally Owned Land by Continent or Country and Predominant Usage (Ex- cluding DOD Military Func- tions)	Part I and II - American Samoa - Canal Zone - Canton and Enderbury Islands - Guam	Service Research and Develop- ment Other Buildings Total Buildings (The Above Categories are each broken down into:) - Buildings - Floor Area - Cost Agricultural Grazing Forest and Wildlife Parks and Historic Sites Office Building Loca- tions Military - Except Air- fields Harbor and Port Termi- nals Power Development and Distribution Reclamation and Irriga- tion Flood Control and Navi- gation Vacant Institutional Housing Storage Industrial Research and Development Other Land Total Land (Above Categories are each broken down into:) - Areas - Cost	
Inventory of Land and Buildings by the Federal Government	None	Dates Owned - From - To Buildings - Acres to Nearest Tenth - Urban - Rural Cost - In Thousand Dollars	

Title: Manual of Surveying Practice
Source Agency: _____
Computerized: No Computer Reference: _____
General Information: LND 5

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Milestones	None	History of Surveying From 1898 to Present	
Municipality Evolution Prior to July 23, 1913	Map of Guam Showing the Municipalities - Agana - Agat - Inarajan - Merizo		
Municipality Evolution July 23, 1913 to Novem- ber 14, 1928	Map of Guam Showing the Municipalities - Agana - Piti - Yona - Sumay - Agat - Inarajan - Merizo		
Municipality Evolution November 14, 1928 to April, 1934	Map of Guam Showing the Municipalities - Dededo - Yigo - Barrigada - Agana - Asan - Piti - Yona - Sumay - Agat - Inarajan - Merizo		

Title/Date/Source	Row Labels	Column Headings	Notes
Municipality Evolution As of February 1st, 1934	Map of Guam Showing the Municipalities - Machanao - Yigo - Dededo - Agana - Barrigada - Sinajana - Asan - Piti - Yona - Sumay - Agat - Talofofo - Inarajan - Umatac - Merizo		

List of Sections of the Report:

- Section I: Outline of Surveys on Guam.
- Section II: Laws, Regulations, Rules and Specifications pertinent to the practice of Land Surveying.
- Section III: Field Work.
- Section IV: Office Work.
- Section V: Use of Guam Plane Co-ordinate System (Guam Geodetic Triangulation Network - GGTN).
- Section VI: Private Surveys.
- Section VII: Professionalism - Ethics.

List of Appendixes of the Report:

- A. Drafting Standards, Symbols and Abbreviations.
- B. Useful Tables and Conversion Factors.
- C. Sketch of Guam Land Square System.
- D. Sample Field Notes.
- E. Territorial Surveyors.
- F. Report on 1945 Land and Claims Commission Triangulation Network.

G. Monument Identification.

H. Glossary of Guamanian Place Names.

I. Definitions.

J. Miscellaneous Reports of the Territorial Surveyors.

K. Data on United States Coast and Geodetic Survey of Guam - 1963.

L. History of the Island of Guam Grid Systems and Vertical Control Networks.

Title: Forms For Territorial Planning Commission and Subdivision Review Committee
 Source Agency: _____
 Computerized: No Computer Reference: _____
 General Information: LND 17

Information Contained on the Document

Final Subdivision Approval

1. IDENTIFICATION OF APPLICANT: Check Owner Or Lessor; Name; Mailing Address; Home Phone; Business Phone.
2. PROPERTY DESCRIPTION: Subdivision - name, new lot numbers, block number, tract numbers, village, municipality, former basic lot number, C.T., document number; Registration Date; Existing Use; Average Lot Size; Area; Number Of Lots; Existing Zoning; Proposed Uses Of Property.
3. SIGNATURES: Applicant - date; Representative For Applicant - date.
4. FOR OFFICIAL USE ONLY: Date Of Tentative Map Approval; Date Of Final Map Filing; Accepted By - name; Date Of T.P.C. Action; Date Notice Of Action Sent; Date Submitted To Governor; Approval Date; Date Disapproved; Date Of Recording; Document Number; Date Notice Of Governor's Action Sent To Applicant.

Application For Variance

1. IDENTIFICATION OF APPLICANT: Check Owner Or Lessor; Name; Mailing Address; Phone Number - home, business.
2. PROPERTY DESCRIPTION: Subdivision - name, village, lot number, block number, tract number, municipality; Existing Uses On Property; Lot Size; Present Zoning District.
3. NATURE OF VARIANCE: Specify.
4. FOR OFFICIAL USE ONLY: Filing - date, accepted by (name); Date Of Notice - in the newspaper, to adjacent property owners; Public Hearing - date, place; Check If Fee Paid; T.P.C. Action - date, conditions (check yes or no, if yes - specify conditions of approval), T.P.C. resolution number, date notice of action sent; Signature Of Territorial Planner.

Application For Variance From Subdivision Improvements

1. IDENTIFICATION OF APPLICANT: Name; Telephone Number; Mailing Address
2. PROPERTY DESCRIPTION: Lot/Tract Number; Municipality Of - specify; Present Zoning; Name Of Registered Owner Of Basic Property Being Subdivided

If Different Than Applicant.

3. ADDITIONAL INFORMATION: Specific Improvements The Variance Is Requested For - specify; Reasons For Variance - specify; Discription Of the Physical Characteristics Of the Roads Or Access Easements and Their Condition; Description Of the Previous Subdivisions Of the Basic Lot; Reasons the Property Is Being Subdivided.

Application For Parcelling and Agricultural Subdivision

1. IDENTIFICATION OF APPLICANT: Name; Mailing Address; Business or Home Telephone Number.
2. PROPERTY DESCRIPTION: Municipality; Village; Lot Number; Block Number; Tract Number; Location; Certificate Of Title Number; Document Number; Subdivision - name, grid coordinates, present zoning, proposed zoning, lot area, square meters.
3. SITE FACILITES: Check Yes Or No, Specify Size and Specify Location For the Following Facilities - sanitary sewer, storm sewer, PUAG water, electricity, street lighting; Street - type (specify), curb (check yes or no), sidewalk (check yes or no).
4. SIGNATURES: Applicant - date; Representative - date, accepted by (name); Date Of SDRC Action; Date Of T.P.C. Action; Date Notice Of Action Mailed; Approval Date; Disapproval Date.

Application For Zone Change

1. IDENTIFICATION OF APPLICANT: Check Owner or Lessor; Name; Mailing Address; Home Phone; Business Phone.
2. PROPERTY DESCRIPTION: Subdivision - name, lot number, block number, tract number, village, municipality; Existing Uses On Property - specify use, area; Zoning District - present, proposed; Proposed Uses On Property - specify.
3. SIGNATURES: Applicant - date; Representative For Applicant - date.
4. FOR OFFICIAL USE ONLY: Date Filed; Accepted By - name; Date Of Notice In the Newspaper; Date Of Notice Of Adjacent Property Owners; Public Hearing - date, place; Check If Fee Paid; T.P.C. Action - date, condition (check yes or no, if yes - specify conditions of approval); Date Notice Of Action Sent; Governor - date submitted, date approved, date disapproved, date of recording, document number of recordation, date notice of governor's action sent to applicant; Date Transmitted To Legislature and Other Agencies For Information; Date Change Of Official Zoning Map; Signature Of Territorial Planner.

Application For Conditional Use

1. IDENTIFICATION OF APPLICANT: Check Owner Or Lessor; Name; Mailing Address; Phone Number - home, phone.
2. PROPERTY DESCRIPTION: Legal Description Of Lot; Block Number; Tract Number; Municipality/Village; Existing Use; Lot Size; Property Presently

Zoned As - specify; Description Of Conditional Use.

3. SIGNATURE: Applicant - date.

4. FOR OFFICIAL USE ONLY: Filing - date, accepted by (name); Date Of Notice In the Newspaper; Date Of Notice To Adjacent Property Owners; Public Hearing - date, place; Check If Fee Paid; T.P.C. Action - date, conditions (check yes or no, if yes - specify conditions of approval); T.P.C. Resolution Number; Date Notice Of Action Sent; Signature Of Territorial Planner.

Title: Improvement District Program - Procedure, Process and Flow

Source Agency: Department of Public Works and Department of Land Management

Computerized: No Computer Reference: _____

General Information: LND 18

Information Contained on the Document

PETITION FOR THE CREATION OF AN IMPROVEMENT IN THE MUNICIPALITY OF ...

1. Improvement District Name

2. Statement of Need

3. Boundries of the Assessment District

A written description and map of the location of the Improvement.

4. Signature of Petitioners

A list of signatures of the legal lot owners along with the increment, lot number and Certificate of Title number. It is verified by the Land Management Improvement District Planner.

5. Certification of Filing Action

This statement is signed by the Deputy Recorder from the Department of Land Management, Office of the Recorder, identifying the information filed by instrument number, date of filing, and the number and page number of the book it is filed in. The recording fee and voucher number is also given.

6. Certification of Review

A letter from Esteban U. Torres, Director of Land Management which accompanies a report approving or disapproving the proposed Improvement District.

7. Certification of Approval of Petition

A statement from the Territorial Planning Commission giving the decision of a T.P.C. meeting to approve or disapprove a specified Improvement District.

AFFIDAVIT, AGREEMENT TO PAY IMPROVEMENT DISTRICT MORTGAGE

1. Notice to Revenue and Taxation of Property Assessment Mortgage

This letter is sent to the Real Property Division from the Director of Land Management to give notice of the Improvement District Assessment Lien against a specified piece of property. The property is identified by the owner's name and mailing address; the property's original designation (its estate number, basis lot number and name of the municipality); and the property's present designation (its tract number, block number and lot number). The size of the property is mentioned in square feet - its original size, present size and the amount of property taken by the government for District Improvements.

Finally, the Improvement District Assessment Lien is specified - the amount in dollars, the executive order number and date, and the Public Works Project name and number.

2. Certification of Filing Action

This statement is signed by the Deputy Recorder from the Department of Land Management, Office of the Recorder, identifying the information filed by instrument number, date of filing and the number of page number of the book it is filed in. The recording fee and voucher number is also given.

3. Affidavit

This document consists of the signatures of persons agreeing to the above mentioned Assessment Mortgage. These persons agree to pay the total sum of the mortgage in either 5 years or 10 years at 6% annual interest.

ANNUAL POWER CONSUMPTION WAIVER

1. Request for Annual Power Consumption Waiver

This form is a signed application to Revenue and Taxation, Real Property Division by a GPA customer for a waiver of annual payment of power consumption at 6% interest due to the customer's entrance into a Streetlight Assessment District. The customer identifies himself by name and address, by GPA billing numbers (electric meter number and GPA account number), and by residence location (lot, block and tract numbers, and name of municipality). The Streetlight Assessment District is identified by name and number, and by Public Works Project number. If the application is granted, the customer agrees to pay a specified monthly fee which will be added to the regular monthly GPA charges.

2. Granting of Annual Power Consumption Waiver

A letter to GPA from Roman A. Blas, Chief, Real Property Division granting the requested waiver for payment of annual power consumption.

3. Affidavit, Agreement to Pay Power Consumption Monthly

A signed agreement between Customer Accounting and Billing GPA, and a customer of GPA, that the customer will pay a monthly fee specified in the agreement for street light power consumed by the Streetlight Assessment District. The customer identifies himself by name and mailing address, by GPA billing numbers (electric meter number and GPA account number), and by residence location (lot, block and tract numbers, and name of municipality).

NOTICES OF APPROVAL OF THE IMPROVEMENT DISTRICT

1. Notice of Landowners of Preliminary Approval

A letter to the landowner from the Chairman of the Territorial Planning Commission, Department of Land Management giving preliminary approval to the landowners improvement district petition. The notice specifies the amount of money the landowner must pay as his share, if the project is approved. The date and place of public hearing is also given.

2. Notice to Landowners of Public Hearing

A letter to the landowners from the Director of Land Management giving the time and place of the public hearing dealing with the specified proposed Improvement District. A statement on the purpose of the proposed project is given as well as the estimated cost per landowner.

3. Notice to Landowners of Disapproval

A letter to the landowners from the Director of Land Management denying the petition request for an Improvement District on one of the following grounds:

- . . . Petition request was in conflict with the Territorial Master Plan and prohibited by public law
- . . . The request was vague and did not define an appropriate boundary for and Improvement District
- . . . Petition request did not define Part II: Statement of needs sufficient for this committee to request construction estimates
- . . . Names appearing on the petition could not be verified as legal owners of 25% of the land in boundary of requested Improvement District
- . . . 60% of the owners of 60% of the land did not agree to the requested Improvement District
- . . . Final review by the Governor of Guam was held and the petition was rejected
- . . . Judicial review of the requested petition rejected same

EASEMENTS

1. Right of Way

A permit issued by landowners giving the Government of Guam permission to enter upon specified property in order to construct and maintain a road right of way, or power, water or sewer lines. Landowners identify themselves by name and residence municipality, and specify location of their property by lot number and municipality.

2. Grant of Easement

This document consists of the signatures and addresses of landowners giving the Government of Guam perpetual easement for the construction, operation and maintenance of a specified project, including its access, lines, structures, etc.

Title: Forms for Seashore Protection Commission

Source Agency: _____

Computerized: No Computer Reference: _____

General Information: LND 19

Information Contained on the Document

Territorial Seashore Protection Act Clearance

1. APPLICATION NUMBER AND DATE
2. PERSONAL INFORMATION: Name of Applicants; Applicant is - (check one most applicable) owner, lessor, other-describe; Mailing Address; Phone Number - home, business.
3. LOT DESCRIPTION: Village/Municipality; Lots; Block, Tract; Zone; Existing Use.
4. TYPE OF APPLICATION: (Check One) Zone Change; Conditional Use; Variance; Subdivision/Parcelling/Agricultural Subdivision; Waiver of Subdivision Improvement; New Construction; Renovation; Demolition; Clearing; Miscellaneous.
5. VICINITY OF PROJECT: Land Use on Adjacent Lots and Zoning Within 750' Radius of the Project; Size, Type and Location of Existing Lots and Buildings; Existing Sewer Lines - septic tanks, leaching fields, cesspools; Existing Water Courses on Property - rivers, streams, marshes, etc.; Existing Highways and Easements Abutting the Lot or Necessary for Providing Access; Existing Coastline Along Project; Line of Seashore Reserve; Existing Storm Drains and Present Direction of Surface Flow and Existing Method of Disposal; Existing Vegetation on Site; Existing Soils and Percolation Rates when Warranted; Areas Subject to Flooding; Existing Historical Sites or Unique Features of the Site.
6. ADDITIONAL INFORMATION: Asks What Will Be the Proposed Method of Solid Waste Storage and Collection; Asks Whether the Proposed Project Provide Additional Public Access to the Coast; If Yes, Indicate on Map; Asks What Land Use Changes Will Result From Your Project; Asks What Changes in Population and Land Coverage by Buildings Will this Cause.
7. ACTION TAKEN: (Check One) Approval; Tabled, Disapproval.
8. APPROVAL CONDITIONS: Reasons for Denial.

Title: Files On Seashore Protection Commission

Source Agency: Land Management Planning Division

Computerized: No Computer Reference: _____

General Information: LND 19

Information Contained on the Document

Between August 1975 and May 1976, the following applications were considered by SPC:

<u>Municipalities</u>	<u>Lot No.</u>	<u>Date</u>	<u>Type of Application</u>	<u>Approval</u>
Agat	160-2	Aug.14/75	Permit to Construct a Doughnut House	Conditional Approval
Agat	171-3-2	Mar.11/76	Clearing	Conditional Approval
Asan	292-7	Sep.18/75	Permit to Construct Commercial Building	Conditional Approval
Agat	308-R1	Aug.14/75	Parcelling	Tabled
Agat	310-1	Aug.14/75	Parcelling	Conditional Approval
Dededo	5059-1 New A	Oct.16/75	Tourist Accessory Use in Restaurants	Approved
East Agana	2037- New-1 Rem	Sep.18/75	Permit to Construct an Extension of Commercial Building	Conditional Approval
Marizo	39	Aug.14/75	Permit to Build a Residential House	Approved
Marizo	6, 8 & 9	Jan.8/76	Seashore Permit	Approved
Marizo	240-New-2 240-New-4 240-New-R6A	Mar.11/76	Clearing	Conditional Approval
Marizo	256-3	Oct.16/75	Permit to Build a Residential House	Conditional Approval
Tamuning	2029New-1 & New-2	Aug.14/75	Permit to Build a Commercial Building	Conditional Approval

<u>Municipalities</u>	<u>Lot No.</u>	<u>Date</u>	<u>Type of Application</u>	<u>Approval</u>
Tamuning	2129-1 Rem-R1	Aug.14/75	Permit to Construct Residential House	Approved
Tamuning	2130-1W-2	Sep.18/75	Permit to Build a Residential House	Conditional Approval
Tumon	5085	Sep.18/75	Permit to Build a 12-Unit Apartment	Not Approved
Tamuning	5174C	Feb.12/76	Seashore Permit	Tabled
Talofofo	17-1-R1	Sep.18/75	Clearing	Tabled
Umatac	159-1	Aug.14/75	Permit to Rebuild Old Structure	Tabled
Umatac	159-C-R2	Feb.12/76	Clearing	Tabled

Title: Commercial Property Record and Appraisal Card; Farm and Residential Property Appraisal Card
Source Agency: Department of Revenue and Taxation
Computerized: No Computer Reference:
General Information: LND 19

Information Contained on the Document

The two Property Record and Appraisal Cards are identical except for the Principal Building Description.

A. PROPERTY RECORD

1. MUNICIPALITY
2. NAME AND REAL ESTATE DESCRIPTION
3. BUILDING PERMIT NUMBER: New Building; Addition; Alteration and Repair; Relocation; Others.
4. SALES RECORDS: Date, Sales Price; Ratio.
5. REAL ESTATE ASSESSMENT RECORD: Year; Percent; Land; Building; Total Assessment; 3%; Tax.
6. LOT RECORD: Topography - level, high, low; Improvements - sidewalks curbs, water, sewer, electricity; Zoning or Use - residential, apartment, commercial, light indust., heavy indust.; Street - asphalt, concrete, coral, macadam, unpaved.
7. ACREAGE RECORD: Topography - level, rolling, low, rough; Road - paved road, all weather road, dirt road, no road outlet, distance to all weather road; Distance to Trading Center; Water - P.U., well, spring, stream; Drainage - natural, artificial; Hectare - cultivatable, pasture, roads, streams, waste, total hectare; Mineral Lands - type, total hectares.
8. BOARD OF EQUALIZATION: Land; Building; Total.
9. ISLAND COURT: Land; Building; Total.
10. LAND VALUE CALCULATION: Size of Lot or Number of Hectares; Total Hectares; Soil Class; Base Unit Value; Depth Corner or Other Influence - table, factor; Adjusted Unit Value; Total Value - total land base value, location adjustment factor, adjusted value, mineral value, total lot or land values; Adjustment for Rural Land - type of road, distance to all weather road, distance to local trading center, total.

B. APPRAISAL CARD

1. PRINCIPAL BUILDING DESCRIPTION ON THE COMMERCIAL PROPERTY CARD: Major Grade; Observed Physical Condition - good, normal, fair, poor; Effective Age - date, years; Type and Use - combination stores (and apartment, hotel, office, theater, gas station, warehouse, loft, store, garage, industrial, storage), story heights; The Following 12 Categories Specify Number Sect. and Unit Cost: Foundation - masonry, conc. block, conc. piers, wood piers, stone, mud sills, other; Frame - concrete rein beams, concrete rein flat slab, iron or steel columns, bearing walls, other; Floor - subflooring (concrete rein, concrete slab, hardwood, softwood), floor cover (vinyl tile, asphalt tile, ceramic tile, quarry tile, terrazzo, other); Ceiling - unfinished, open finish, masonite and ply, plaster, accos. tile, accos. plaster, other; Interior Partitions - plywood, wall board, plaster board, plaster on C.H.B. painted, other; Exterior - wall heights (concrete block, concrete rein., steel prefab, corrugated iron, tongue and groove, wood plain board, other; Plumbing - combined fixture (3 fixture bath, 2 fixture toilets), single fixture (lavatories, urinal, laundry sink, kitchen sink, bathtub stall, shower stall, water heater, other; Roof - structure (concrete slab, steel joist, wood joist, other), cover (concrete, steel or alum. prefab, corrugated iron); Electricity - outlets (few, many, average, unfinished), type of wiring (romex, flex, rigid or conduit, power wiring, other); Wall Ornamentation - ornamental, stucco or masonry; Air Conditioning Tonnage; Other Item - conc. driveway, asphalt driveway; Age of Building - date of construction (date, age), major alterations or additions on principle building (date, age, source); Ground Plan Sketch; Building Area Calculation (ground area in square feet) - floor, width, length, area.

2. PRINCIPAL BUILDING DESCRIPTION ON THE RESIDENTIAL AND FARM PROPERTY CARD: Building Class; Observed Physical Condition - good, normal, fair, poor; Effective Age - date, years; Type and Use - family dwelling, 3-6 family apartment, motel, quonset, pre-fab; Foundation - masonry, wood or block piers (specify light, medium, heavy); Frame; Exterior Wall Construction - stories, wood (plain board, plywood, tongue and grooved) corrugated iron (new, used), CHB, rein concrete, other; Roof - type (flat, hip, gable, mansard, gambrel), roofing (prepared roll, concrete, corrugated iron, other); Interior Finish - walls (unfinished, wallboard or plywood, plaster), doors and trim (softwood, hardwood), tile walls (bath, kitchen); Floors - stories, hardwood, softwood, concrete, terrazzo, tile floors, (bath, kitchen); Plumbing - none, water only, number of bathrooms, number of toilet rooms, number single fixtures, septic tank, sewer, water heater; Electricity - electricity (yes or no), type wiring, 220 service, power wiring, AC units, built-in; Porches (specify 1st, 2nd or 3rd porch for each of the following) - own roof, main roof, open porch, enclosed and finished, area; Stories and Rooms - (specify 1, 1½, 2, 2½ stories) number of apartments, number of bedrooms, other; Other Items - canopy, terrace (type, area), built in carport (square feet ground area), garage, yard improvements, other; Basement - none, full, part (%), finished (recreation %, apartment %), floor (dirt, wood, cement), tiled, type.

3. BUILDING VALUE CALCULATION: Replacement Cost - item number, area or quantity, unit cost, total by year, total replacement cost, cost conversion factor, replacement cost; Depreciation and Obsolescence in Percentages - depreciation (effective age depreciation, observed physical condition, total depreciation, net condition, obsolescence (overimprovement, underimprovement, other, net condition, final net condition (depreciation net condition times obsolescence net condition); Summary of Appraised Value - principle building appraisal, other principle building appraisal, total building appraisal, total land appraisal, total appraised value.

4. DESCRIPTION, REPLACEMENT COST AND APPRAISAL OR ACCESSORY BUILDINGS: Building Ident; Sect. No.; Dimensions - width, depth, height; Foundation; Frame; Floor; Ceiling; Interior; Exterior; Plumbing; Roof; Electricity; Wall Ornamentation; Air Conditioning; Unit Cost; Other Items; Replacement Cost; Net Condition %; Net Appraisal.

5. The card also contains the computer-generated Master Directory reference number, which links it to the Government of Guam Real Estate Tax Division Master Directory.

Title: Location Codes Used in Real Estate Tax Division Master Directory and New Assessment Worksheet*

Source Agency: Revenue and Taxation

Computerized: No Computer Reference: _____

General Information: LND 19

Information Contained on the Document

The Physical Location Codes Used are as Follows:

Agana Urban
 Agana Suburban
 Agat Urban
 Agat Suburban
 Santa Rita
 Asan Urban
 Asan Suburban
 Barrigada Urban
 Barrigada Suburban
 Dededo Urban
 Dededo Suburban
 Inarajan
 Machanao
 Merizo
 Piti Urban
 Piti Suburban
 Sinajana Urban
 Sinajana Suburban
 Sumay
 Talofofo Urban
 Talofofo Suburban
 Umatac
 Yigo
 Yona Urban
 Yona Suburban

* Information contained in these reports is given in the general information.

Type of Information: Land Use Inventory

Connected With:
 Published Report
 Survey Form

X

Title: Land Use Inventory

Data Available: On Cards

On Disk

X	80 Col
	96 Col

	5444
	5445
	2311
	3311

Number of Records in File: 30,000

General Information: LND 3

Detail Information: LND Detail 3

FILE FORMAT

Positions	Contents	Notes
1 - 2	Municipality	
3	Owner Code	
4 - 23	Lot Number or Designation	
24 - 32	Land Area in Hundredths of Square Meters	
33 - 36	Building Area in Square Feet	
37 - 43	Land Value	
44 - 50	Building Value	
51	Zone	
52 - 54	Number of Stories	
55 - 60	Primary Use	
61 - 65	Accessory Use	
66 - 67	Building Class	
68	Building Condition	
69 - 75	Document or Certificate of Title Number	
76 - 79	Space for Grid Identifier; Not Currently Used	
80	Home Owner Tax Exemption	

Title: General Population Characteristics - Guam

Source Agency: Bureau of the Census, U.S. Department of Commerce

Computerized: Yes Computer Reference: Not Available

General Information: POP 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 5 General Characteristics: 1970	Age and Sex - Both Sexes, All Ages - Male, All Ages - Female, All Ages (Above 3 Categories are each broken down into:) - Under 1 Year - 1 Year thru 20 Years - 21 Years and Over - Under 5 Years - 5 thru 84 in Incre- ments of 5 Years - 85 Years and Over - Under 18 Years - 65 Years and Over - Median Age Relationship to Head of Household - Total Population - In Households - Head of Household - Family Head - Primary Indivi- dual (Above 2 Categories are each broken down into:) - Male - Female - Wife of Head - Child of Head - Other Relative of Head - Not Related to Head - In Group Quarters - Inmate of Institu- tion - Other - Persons Per House- hold	The Area, Districts, Places of 1,000 or More - Guam - Total - Urban - Rural - Districts - 19 Districts - Places - Agana City - Agana Heights Vil- lage - Agat City - Barrigada Village - Dededo Village - Mongmong Village - Santa Rita Village - Sinajana Village - Tamuning Village - Toto Village - Yona Village	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 6 Marital Status: 1970	Families By Presence of Own Children Under 18 Years Old - Total Families - Husband-Wife Families - Families with Female Head (Above 3 Categories are each broken down into:) - With Own Children Under 18 Years - With Own Children Under 6 Years		
	Marital Status - Total, 14 Years Old and Over - Male, 14 Years Old and Over - Female, 14 Years Old and Over (Above 3 Categories are each broken down into:) - Single - Married - Legally Married - Consensually Married - Separated - Widowed - Divorced	The Area, Districts, Places of 1,000 or More - Guam - Total - Urban - Rural - Districts - 19 Districts - Places - Agana City - Agana Heights Village - Agat City - Barrigada Village - Dededo Village - Mongmong Village - Santa Rita Village - Sinajana Village - Tamuning Village - Toto Village - Yona Village	
Table 7 Ethnic Characteristics: 1970	Place of Birth - Total Population - Native - Born in a U.S. Territory - Born in United States - Born in Puerto Rico - Foreign Born Country of Origin - Total Foreign Born - England - Denmark - France - Germany - Spain - Other Europe	The Area, Districts, Places of 1,000 or More - Guam - Total - Urban - Rural - Districts - 19 Districts - Places - Agana City - Agana Heights Village - Agat City - Barrigada Village - Dededo Village - Mongmong Village - Santa Rita Village - Sinajana Village	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 8 Citizenship Status and Year of Immigration of the Foreign Born: 1970	- Western Samoa - Republic of the Philippines - Southwest Asia - China - Japan - Other Asia - Canada - Mexico - Cuba - Dominican Republic - Republic of Panama - British West Indies - Other West Indies - South America - Other America - Africa - All Other	- Tamuning Village - Toto Village - Yona Village	
	Citizenship - All Ages - Under 18 Years Old - 18 Years Old - 19 Years Old - 20 Years Old - 21 Years Old and Over (Above 6 Categories are each broken down into:) - Naturalized - Permanent Alien - Temporary Alien - Born Abroad of American Parents Year of Immigration - Total Foreign Born - 1969 to 1970 - 1967 to 1968 - 1965 to 1966 - 1960 to 1964 - 1955 to 1959 - 1950 to 1954 - 1940 to 1949 - 1930 to 1939 - Before 1930	The Area, Districts, Places of 1,000 or More - Guam - Total - Urban - Rural - Districts - 19 Districts - Places - Agana City - Agana Heights Village - Agat City - Barrigada Village - Dededo Village - Mongmong Village - Santa Rita Village - Sinajana Village - Tamuning Village - Toto Village - Yona Village	
Table 9 Mortality and Veteran Status: 1970	Residence in 1965 - Total Population, 5 Years Old and Over - Same House - Different House - In United States - In U.S. Territory	The Area, Districts, Places of 1,000 or More - Guam - Total - Urban - Rural	

Title/Date/Source	Row Labels	Column Headings	Notes
	- In Puerto Rico - In Foreign Country - Moved, Residence Not Reported - Persons in Armed Forces in 1970, Different House in 1965 - In United States - In U. S. Territory - In Puerto Rico - In Foreign Country - Veteran Status - Civilian Male, 16 Years Old and Over - Veteran - Percent of Total - Vietnam Conflict - Korean Conflict - Korean Conflict and World War II - World War II - World War I - Other Service - Nonveteran	- Districts - 19 Districts - Places - Agana City - Agana Heights Village - Agat City - Barrigada Village - Dededo Village - Mongmong Village - Santa Rita Village - Sinajana Village - Tamuning Village - Toto Village - Yona Village	
Table 10 Educational Characteristics: 1970	School Enrollment - Total Enrolled, 3 Years Old and Over - 3 to 34 Years Old - Nursery School - Kindergarten - Elementary (1 to 8 Years) - High School (1 to 4 Years) (Above 4 Categories are each broken down into:) - Public - Percent - Parochial - Other Private - College - Public - Percent - Private - 35 Years Old and Over - Total Enrolled, 3 to 34 Years Old - Percent Enrolled, 3 to 34 Years Old (Above 2 Categories are each broken down into:)	The Area, Districts, Places of 1,000 or More - Guam - Total - Urban - Rural - Districts - 19 Districts - Places - Agana City - Agana Heights Village - Agat City - Barrigada Village - Dededo Village - Mongmong Village - Santa Rita Village - Sinajana Village - Tamuning Village - Toto Village - Yona Village	

Title/Date/Source	Row Labels	Column Headings	Notes
	- 3 and 4 Years Old - 5 and 6 Years Old - 7 to 13 Years Old - 14 thru 21 Years in Increments of 1 Year - 22 to 24 Years Old - 25 to 34 Years Old - Males 16 to 21 Years Old Not Attending School - Total - Not High School Graduate - Percent of All Males 16 to 21 Years - Employed or in Armed Forces - Unemployed or Not in Labor Force - High School Graduate - Employed or in Armed Forces - Unemployed or Not in Labor Force - Years of School Completed - Male, 25 Years Old and Over - Female, 25 Years Old and Over (Above 2 Categories are each broken down into:) - No School Years Completed - Elementary: - 1 to 4 Years - 5 and 6 Years - 7 Years - 8 Years - High School: - 1 to 3 Years - 4 Years - College: - 1 to 3 Years - 4 Years - 5 Years or More - Median School Years Completed - Percent By Level or School Completed - Total Persons, 25 Years Old and Over - Less than 5 Years of Elementary School		

Table 11
Education, Fertility,
and Family Composition:
1970

Title/Date/Source	Row Labels	Column Headings	Notes
	- Less than 1 Year of High School - 4 Years of High School or More - 4 Years of College or More - Median School Years Completed - Total Persons, 18 to 24 Years Old - 4 Years Of High School or More - 4 Years of College or More		
	Vocational Training of Persons 16 to 64 Years Old		
	- Male, With Less Than 15 Years of School - Female, With Less Than 15 Years of School		
	(Above 2 Categories are each broken down into:)		
	- Percent With Vocational Training		
	Years of School Completed for Selected Age Groups	The Area, Districts, Places of 1,000 or More	
	- Male, 20 to 49 Years Old - Female, 15 to 44 Years Old	- Guam - Total - Urban - Rural - Districts - 19 Districts - Places - Agana City - Agana Heights Village - Agat City - Barrigada Village - Dededo Village - Mongmong Village - Santa Rita Village - Sinajana Village - Tamuning Village - Toto Village - Yona Village	
	(Above 2 Categories are each broken down into:)		
	- No High School - High School, 1 to 3 Years - High School, 4 Years - College, 1 Year or More		
	Fertility		
	- Women, 15 to 24 Years Old - Women, 25 to 34 Years Old - Women, 35 to 44 Years Old		
	(Above 3 Categories are each broken down into:)		
	- Ever Married - Percent Ever Married		

Title/Date/Source	Row Labels	Column Headings	Notes
	- Number of Own Children Under 5 Years - Number of Children Ever Born		
	(Above 2 Categories are each broken down into:)		
	- Per 1,000 Women - Per 1,000 Women Ever Married		
	Family Composition		
	- Families - With Own Children Under 3 Years - With Own Children Under 6 Years - With Own Children Under 12 Years - With Own Children Under 18 Years - With Sons/Daughters Under 25 Years - With Sons/Daughters 13 to 19 Years - With Sons/Daughters 18 to 24 Years - Subfamilies - Husband-Wife Subfamilies - Subfamilies With Female Head		
	(Above 3 Categories are each broken down into:)		
	- Number of Own Children Under 18 Years - Married Couples - Percent in Subfamilies - With Own Children Under 6 Years - With Own Children Under 18 Years - With Husband Under 45 Years - Persons, Under 18 Years Old - Living With Both Parents - Percent of Total - Living With One Parent - Living With Neither Parent		

Title/Date/Source	Row Labels	Column Headings	Notes
	Type of Group Quarters - Persons, in Group Quarters - Inmate of Mental Hospital - Inmate of Home for the Aged - Inmate of Other Institution - In Rooming House - In Military Barracks - In College Dormitory - Other		

Title: Number of Inhabitants - Guam
 Source Agency: Bureau of the Census, U.S. Department of Commerce
 Computerized: Yes Computer Reference: Not Available
 General Information: POP 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Population of Guam: Earliest Census to 1970	Urban and Rural - 1970 April 1st thru 1930 April 1st in Decremets of 10 Years - 1920 January 1st - 1910 - 1901	Total Urban Rural (Above 3 Categories are each broken down into:) - Population - Places of 2,500 or More (Urban Only) - Amount of Change From Preceding Census	5 6
Table 2 Population and Land Area of Election Districts: 1970	Urban and Rural - Guam - 19 Villages	Land Area in Square Miles, 1970 1970 Population - Total - Number - Per Square Mile - Urban - Total - Rural	5 7
Table 3 Population of Election Districts: 1970 and 1960	District Subdivisions - Guam - 19 Districts	Year - 1970 - 1960	5 7
Table 4 Population of Places: 1970 and 1960	Places - Agana City - Agana Heights Village - Asan Village - Agat City - Barrigada Village - Dededo Village - Inarajan Village - Merizo Village - Mongmong Village - Santa Rita Village - Sinajana Village - Talofofo Village - Tamuning Village	Year - 1970 - 1960	5

Title/Date/Source	Row Labels	Column Headings	Notes
	- Toto Village - Umatac Village - Yona Village		

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

6 - Includes native men enlisted in U.S. Navy, but excludes United States Naval Station personnel.

7 - Includes Cocos Island.

Title: Population Estimates of Guam: September, 1975

Source Agency: Department of Labor, Bureau of Labor Statistics

Computerized: No Computer Reference: _____

General Information: POP 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
The Sex Ratios of the Population by Age Groups; 1975	Age - All Ages - Under 15 Years - 16 thru 19 Years - 20 thru 24 Years - 25 thru 64 Years in Increments of 10 Years - 65 Years and Over	Females Per 100 Males	
Number and Percent Distribution of the Ethnic Group	Ethnicity - All Groups - Chamorro (Guamanian) - Filipino - Caucasian - Chamorro-Filipino - Chamorro-Caucasian - Chamorro-Other - Other Mixture - Micronesian - Japanese - Chinese and Korean - Other	Number	5 6
The Three Major Ethnic Groups on Guam by Age	Age - All Ages - 0 thru 15 Years - 16 thru 19 Years - 20 thru 24 Years - 25 thru 54 Years in Increments of 10 Years - 55 Years and Over Median Age Years	Ethnicity - Chamorro - Filipino - Caucasian	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Civilian Population of Guam by Age, Sex and Citizenship - September 1975	Age - All Ages - Under 5 Years - 5 thru 64 Years in Increments of 5 Years - 65 Years and Over Median Age Years	Total Sex - Male - Female Citizenship - U.S. - Permanent Resident Alien	7
Figure 1 Ethnic Composition of the Civilian Population of Guam - September 1975	Chamorro Filipino Caucasian Chamorro-Filipino Chamorro-Caucasian Japanese, Chinese and Korean Other	Percentage	7

NOTES:

Notes 1 thru 5 are standard Notes, refer to introduction.

6 - Chamorro-Other means a mixture of Chamorro and another group other than Filipino or Caucasian.

7 - Excludes Non-immigrant aliens and military dependents staying on military bases.

Title: Basic Population Facts - Guam 1970
 Source Agency: Roy Chung, Research Demographer, University of Guam
 Computerized: Yes Computer Reference: Not Available
 General Information: POP 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
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Some Population Facts - Guam 1970

A TABLE SHOWING THE FOLLOWING INFORMATION: Total Population; Area in Square Miles; Density; Crude Birth Rate; Crude Death Rate; Average Annual Rate of Natural Increase; Length of Time for Population to Double (Years); Total Fertility Rate; Gross Reproduction Rate; Net Reproduction Rate; Mean Age at Child Birth; Mean Length of Generation; Life Expectation - female; Life Expectation - male; Year of "The Population Explosion"; Per Cent of Demographic Transition Completed.

Guam's Changing Age
Patterns: 1930-1970

Age (In Percentage)

- Under 15
- Over 65
- 15 thru 64
- DEP Ratio
- Index of Aging

Year

- 1930 thru 1970 in
 Increments of 10
 Years

Age Structure - Guam and
Asia

Age (In Percentage)

- 0 thru 14
- 15 thru 64
- Over 65

Guam

- Mainland East Asia
- Middle South Asia
- South East Asia

Title: Statistical Abstract - 1974 - Volume 5

Source Agency: Department of Commerce

Computerized: No Computer Reference: _____

General Information: POP 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
No. 1 Population of Guam: Earliest Census to 1970	Year (April 1) - 1970 thru 1901 in Increments of 10 Years	Population - Number - Increase Over Preced- ing Period	5
No. 2 Population By Election District: 1960 and 1970	Guam 19 Election Districts	Year - 1970 - 1960	5
No. 3 Population and Land Area of Election Districts: 1970	Guam 19 Election Districts	Land Area in Square Miles, 1970 1970 Population - Total - Number - Per Square Mile - Urban - Rural	5
No. 4 Total Population, By Age and Election Districts: 1970	Age Group in Years - 0 - 5 - 6 - 17 - 18 - 24 - 25 - 39 - 40 - 64 - 65 and Over Total	19 Election Districts Total	
No. 5 Population, By Age, Sex, and Election Districts: 1970	Age Group in Years - 0 - 5 - 6 - 17 - 18 - 24 - 25 - 39 - 40 - 64 - 65 and Over Total	19 Election Districts Total (Above 2 Categories are each broken down into:) - Male - Female	

Title/Date/Source	Row Labels	Column Headings	Notes
No. 6 Ethnic Characteristics: 1970	Place of Birth - Total Population - Native - Born in a U.S. Territory - Born in United States - Born in Puerto Rico - Foreign Born Country of Origin - Total Foreign Born - England - Denmark - France - Germany - Spain - Other Europe - Western Samoa - Republic of the Philippines - Southwest Asia - China - Japan - Other Asia - Canada - Mexico - Cuba - Dominican Republic - Republic of Panama - British West Indies - Other West Indies - South America - Other America - Africa - All Other	Guam - Total - Urban - Rural	

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

Title: Guam Master Plan, Phase I

Source Agency: Greenleaf/Telesca - Ahn.

Computerized: Yes Computer Reference: Not Available

General Information: POP 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Census; 1970; U.S. Bureau of Census	Election Districts - 19 Election Districts Total	1970 - Civilian - Military - Total 1960 - Total Percent Change	6 1
Other Civilian Population Estimates - 1970; ERC and Chief Commissioner's Office	Election Districts - 19 Election Districts Total	ERC, Dept. of Commerce (5-13-70) - Number - Percent Variance From Census Chief Commissioner's Office - Number - Percent Variance From Census	
Age - Sex Characteristics of the Total Population - 1970; U.S. Bureau of Census	Age Group - Under 5 - 5 thru 84 in Increments of 5 Years - 85 and Over Total Under 18 65 and Over Median Age	Male Number Female Number Total	5 6
Scale of Foreign Born Immigration Characteristics - 1970; U.S. Bureau of Census	Year of Immigration - Before 1930 - 1930 thru 1939 - 1940 thru 1949 - 1950 thru 1954 - 1955 thru 1959 - 1960 thru 1964 - 1965 thru 1966 - 1967 thru 1970	Number of Immigrants	5

Title/Date/Source	Row Labels	Column Headings	Notes
Income (Total Population) 1970; U.S. Bureau of Census	Income - Less than \$250 - \$250 thru \$499 - \$500 thru \$699 - \$700 thru \$999 - \$1,000 thru \$1,499 - \$1,500 thru \$1,999 - \$2,000 thru \$5,999 in Increments of \$999 - \$6,000 thru \$7,999 - \$8,000 thru \$9,999 - \$10,000 thru \$14,999 - \$15,000 thru \$24,999 - \$25,000 and Over - Total Median Mean Mean Per Capita Families with Female Head Mean Female Unrelated Individual Mean	Families Number Unrelated Individual's Number Total Number	5 6
Population Projections based on the Cohort Survival Method - 1972; Quinton-Budlong	Age Groups - 0 thru 4 - 5 thru 84 in Increments of 5 Years - 85 and Over	Years - 1960 thru 1990 in Increments of 5 Years	6
Graph of Alternative Population Projections of the 24 Iterations - 1972; Quinton-Budlong	24 Alternative Population Projections	Census Base Birth Rates Migration Rates Parametric Selections	6

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

- These two tables give specific information on the 24 iterations of the population model basing projections on alternative criteria.

Title: Overall Economic Development Plan

Source Agency: O.E.D.P. Committee

Computerized: No Computer Reference: _____

General Information: POP 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table No. II Population	Year - 1950 - 1951-1959 - 1960 thru 1978	Guamanians Statesiders Permanent Residents Parolees H-2's Other Aliens Total Aliens U.S. Military and Dependents Total	1 6
Table No. III Age Distribution of the Population of Guam for 1955, 1960 and 1970; U.S. Dept. of Commerce, Bureau of the Census Publication PC(1)-B54	Age Group in Years - Under 5 - 5 thru 84 in Increments of 5 Years - 85 and Over - Total - Median Age - Male - Female	Population - 1950 - 1960 - 1970	5
Table No. IV Place of Birth of the Population of Guam for 1950, 1960 and 1970; U.S. Dept. of Commerce, Bureau of the Census Publications PC(1)-B54	Total Population Native Born - Guam - Other Outlying Areas of the U.S. Foreign Born - Republic of the Philippines - Japan - Other Asia - Europe - Other Foreign Countries	Year - 1950 - 1960 - 1970	7

Title/Date/Source	Row Labels	Column Headings	Notes
Table No. V Citizenship Status and Year of Immigration of Foreign Born on Guam: 1970; U.S. Dept. of Commerce, Bureau of the Census Publication PC(1)-B54	Citizenship Status - Naturalized - Permanent Alien - Temporary Alien - Born Abroad of American Parents - Total Foreign Born	Age Group in Years - Under 18 - 18 and Over - All Ages	
Table No. VI Number of Children Ever Born Per 1,000 Women for Guam: 1960 and 1970; U.S. Dept. of Commerce, Bureau of the Census Publication PC(1)-B54	Year of Immigration - 1969 to 1970 - 1967 to 1968 - 1965 to 1966 - 1960 thru 1954 in Increments of 5 Years - 1940 to 1949 - 1930 to 1939	Number	
Table No. VII Population Mobility for Guam Population 5 Years Old and Older: 1970; U.S. Dept. of Commerce, Bureau of the Census Publication PC(1)-B54 and Statistical Abstract of the United States, 1971	Number of Children Ever Born Per 1,000 Women Ever Married Number of Children Ever Born Per 1,000 Women (Above 2 Categories are each broken down into:) - 15 thru 44 Years Old in Increments of 10 Years	Year - 1960 - 1970	
Table No. VIII Comparison of Guam and U.S. Population Distribution, by Age: 1970; U.S. Dept. of Commerce, Bureau of the Census Publication PC(1)-B54 and Statistical Abstract of the United States, 1971	Residence 1965 - Total Population 5 Years Old and Older Same House Different House - In United States - In U.S. Territory - In Puerto Rico - In Foreign Country Moved, Residence Not Reported	Population	5
Table No. VIII Comparison of Guam and U.S. Population Distribution, by Age: 1970; U.S. Dept. of Commerce, Bureau of the Census Publication PC(1)-B54 and Statistical Abstract of the United States, 1971	Age Group in Years - Under 5 - 5 thru 20 - 21 thru 24 - 25 thru 74 in Increments of 10 Years - 75 and Over	Guam Distribution U.S. Distribution	

Title/Date/Source	Row Labels	Column Headings	Notes
Table No. IX Guam Population, Area and Density by Election District, 1960 and 1970; U.S. Dept. of Commerce, Bureau of the Census Publication PC(1)-A54	19 Election Districts Guam Total	Land Area in Square Miles Population Density (Above 2 Categories are each broken down into:) - 1960 - 1970	

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

6 - Source for 1970 Guamanians is both the U.S. Census and Local Census, Guam Commissioner's Office. The count for Guamanians is also based on recorded births, DPHSS, Vital Statistics Division. Figures can only be regarded as estimates.

7 - In 1970 the categories "Guam" and "Other outlying areas of the U.S." were replaced by "Born in a U.S. Territory" and "Born in Puerto Rico".

Title: Preliminary Spatial Patterns of Demographic Variables and Socio-Economic Characteristics of Guam

Source Agency: Roy Chung

Computerized: Yes Computer Reference: Not Available

General Information: POP 3

Information Contained on the Document

FOLLOWING IS A LIST OF DATA WHICH IS PRESENTED GRAPHICALLY ON A MAP BY ELECTION DISTRICT:

1. Median Age, 1970.
2. Total Population, 1970.
3. Density Per Square Mile, 1970.
4. Percent of Persons 25 Years and Over With Less Than 1 Year of High School, 1970.
5. Median School Years Completed 1970, Females 25 Years and Over.
6. Percent of Persons, 18 To 24 Years, With 4 Years of High School or More, 1970.
7. Percent of Persons, 25 Years and Over, With 4 Years of High School or More, 1970.
8. Percent of Persons With Less Than 5 Years Elementary School - Total Persons 25 Years and Over, 1970
9. Percent of Persons, 25 Years and Over, With Less Than 5 Years of Elementary School, 1970.
10. Number of Own Children Under 5 Years Per 1,000 Women, 35 to 44 Years Old, 1970.
11. Percent of Women Ever Married, 15 to 24 Years Old, 1970.
12. Percent of Women ever Married, 25 to 34 Years Old, 1970.
13. Percent of Women Ever Married, 35 to 44 Years Old, 1970.
14. Number of Children Ever Born Per 1,000 Women, 25 to 34 Years Old, 1970.
15. Number of Children Ever Born Per 1,000 Women, 35 to 44 Years Old, 1970.
16. Persons Per Household, 1970.
17. Percent of Females in Labor Force 1970 (Females, 16 Years and Over).
18. Index of Income Concentration, 1970.

19. Birth Rate By Village, 1970.
20. Death Rate By Village, 1970.
21. Per Capita Income of Persons, 1970.
22. Alphabetic Ordering of 19 Districts of Guam After U.S. Census of Population, 1970.
23. Ratio of Illegitimacy to Total Births, 1971.
24. Death Rate By Village, 1971.
25. Ratio of Illegitimacy to Total Births, 1971.
26. Birth Rate By Village, 1971.

Title: The 1974 Statistical Abstract

Source Agency: Economic Research Center, Department of Commerce

Computerized: No Computer Reference:

General Information: PUT 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
(Tables 54-56 and 60-61 have Identical Row Labels and Column Headings)	FY1965 to FY1974 for each year	Residential Commercial and Government Total	
Table 54: Water Consumption; PUAG			
Table 55: Water Meters in Use; PUAG			
Table 56: Revenue From Water Sales; PUAG			
Table 60: Telephones in Use; GTA			
Table 61: Telephone Revenue; GTA			
(Tables 57-59 have Identical Row Labels and Column Headings)	FY1965 to FY1974, for each Year	Residential Commercial and Govern- ment Street and Outdoor Lighting Total	
Table 57: Power Consumption; GPA			
Table 58: Power Customers; GPA			
Table 59: Revenue from Power Sales; GPA			

Title: Bulky Metallic Wastes Management Plan for Guam
 Source Agency: Department of Public Works
 Computerized: No Computer Reference: _____
 General Information: PUT 4

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Abandoned Vehicle Accumulation; 1972; DPHSS	List of Areas	Estimated Number of Vehicles - Location Total - Area Total Status as of June, 1973	6
Table 2 Future Bulky Metallic Wastes Tonnage	Year - Existing Inventory - 1973 - 1975 thru 1990 in Increments of 5 Years - 1993	Car Hulks White Goods Total	7
Table 3 Population Projections; U.S. Census Data	Year - 1970 - 1973 - 1975 thru 1990 in Increments of 5 Years - 1993	Department of Commerce Territorial Planners	
Table 4 Future Car Hulk Volume	Year - 1970 - 1973 - 1975 thru 1990 in Increments of 5 Years - 1993	Total Population Estimated Number of Car Hulks Generated - Rate of Car Registration - 1970 - 1972 - Projection	8 9 10
Plate 1 Map of Guam with Approximate Number and Distribution of Car Hulks of June, 1973	Map of Guam Showing: - Municipality and Number of Car Hulks Contained Within it - Locations at Which 25 or More Car Hulks Have Accumulated - Minor Accumulations Totalling About 400		

Title/Date/Source	Row Labels	Column Headings	Notes
Plate 3 Yearly Total of Registered Vehicles and Estimated Retirement (1963-1972); ERC, Dept. of Commerce; Graph	Number of Registered Vehicles Based on 7% of Total Vehicle Registration	Year - FY1963 thru FY1972	
Plate 4 Projected Vehicle Retirement for Guam 1970 to 1993; Graph Showing Upper Bound, Lower Bound and Estimated Actual Retirement Rate	Number of Vehicles Retired	Year - FY1970 thru FY1993	8 11
Plate 5 Projected Vehicle Retirement Based Upon New Vehicle Imports and an Average Serviceable Life of 6 Years; ERC, Dept. of Commerce	Year - FY1965 thru FY1972	Imported New Vehicles Fiscal Year of Retirement	
NOTES:			
Notes 1 thru 5 are standard notes, refer to introduction.			
6 - Visual Survey by Guam Department of Public Health and Social Services, completed December, 1972. Survey supplemented by Dames and Moore field checks.			
7 - White goods are all bulky metallic wastes other than car hulks.			
8 - 1970 rate of car registration per capita for total population (lower bound)			
9 - 1972 rate of car registration per capita for total population (upper bound)			
10 - Projection is the estimated future projected number of car hulks entering solid waste stream.			
11 - Upper Bound determined on the basis of the existing rate of vehicles per capita applied to future populations assuming vehicle retirement rate of 7% of vehicle registrations.			

Title: Operational Plan for Solid Waste Management Territory of Guam

Source Agency: Greenleaf/Telessea - Ahn

Computerized: No Computer Reference: _____

General Information: PUT 4

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Figure II-2 Territory of Guam	Map of Guam Showing Districts and Major Highways		
Figure II-3 Territory of Guam Sources of Water	Map of Guam Showing - Ground Water Sources - Spring or River Water Sources		
Figure III-3 Island of Guam Refuse Collection Districts	Map of Guam Showing 10 Refuse Collection Districts		
Figure III-4 Island of Guam Solid Waste Disposal Sites	Map of Guam Showing - Closed Dump Site - Proposed Landfill Site		
Figure IV-1, IV-2, IV-3 Disposal Site No. 1, 2, 3	Map of Each Disposal Site Showing its Location and Elevation		
Figure VI-1 Island of Guam Recom- mended Redistributing of Refuse Collection Districts	Map of Guam Showing Districts Which Repre- sent Areas Covered by One Collection Crew in One Week		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure VI-2 Disposal Site Number 1 Proposed Future Land Use	Map of Disposal Site Number 1 Showing Proposed Future Land Use		
Table V-2 Projected Quantity of Refuse Generated Territory of Guam	Year - 1970 - 1975 - 1980 - 1990	Population Quantity Per Year - Residential - Commercial (Above 2 categories are each broken down into: - Tons - Cubic Yards Total Civilian Pro- duction Per Year Total Including Military Waste (Above 2 categories are each broken down into: - Tons - Cubic Yards	1
Table VI-1 Route Requirements - Residential Curbside Pick-Up	Definition of Variables - 3 Man Crew (Driver and 2 Collectors) - Using Disposable Plastic Bags - Collection Equipment - Number of Dwelling Units - Number of Persons Per Dwelling Unit - Refuse Per Capita in Cubic Feet - Refuse Per Dwelling Unit in Cubic Feet - Average Volume Per Truck Per Day in Cubic Yards - Average Number of Dwelling Units, Served Per Day	Formulas and Computa- tions - The Number of Dwelling Units Served Per Day - Accounts Served Per Crew Per Day and Week - Refuse Per Truck Per Day - Number of Routes Required	

Title/Date/Source	Row Labels	Column Headings	Notes
Table VI-2 Residential Collection Cost Analysis with Polyvinyl Disposable Bag	Daily Costs Per Route - Total Collection Crew Weekly Costs Per Residential Account/ Route Plastic Bags - Total Collection Cost - Per Week - Per Month Total Annual Collection	Dollar Amounts	
Recommended Rerouting of Refuse Collection Districts	List of Route - Day Trip	Route Location Miles Traveled Time Distribution in Minutes - From or to Garage - Haul and Dump - Collection time Number of Dwellings Volume Cubic Yards Minutes Per Cubic Yard	
Table VI-3a Monday thru Thursday			
Table VI-3b Tuesday thru Friday			
Table VI-4 Collection Equipment Projection (1970-1990)	Year -1970 thru 1990	Quantities of Waste (Thousand of Tons) - Residential - Commercial - Total Civilian Number of Routes Equipment Required Including Stand by Available Collection Vehicles - Number Retired on 5-Year Basic - Additional Purchase - Total	
Table VI-5 Projected 20-Year Sanitary Landfill Disposal Program	Year - 1 thru 20	Quantities of Waste (Million of Loose cu. Yards) - Residential - Commercial and In- dustrial - Total Civilian - Military - Subtotal - Oversize Non-Comb. - Total	1

Title/Date/Source	Row Labels	Column Headings	Notes
Table VI-6 Estimate of Cost and Estimated Useful Life	Item Total	Site Life Alternatives - Without Shredding - Civilian Waste - Civilian Military Wastes - With Shredding - Civilian, Military and Oversize Wastes	
Table IV-7 Summary of Operating Costs	Operation, Reduction Plant, and Landfill Depreciation on Allow- ance at 6% Annually Total Annual Cost Cost Per Ton Cost Per Cubic Yard	Number of Units Cost Total Depreciation Years Dollar Amounts	1
Table VI-8 Projected Annual Cost for Various Methods of Disposal	Waste Source - Government of Guam - Include Military	Solid Waste - Tons in Thousands - Cu. Yards in Thou- sands Quantity of Cover Re- quired for Sanitary Landfill (cu. yds.) Annual Cost of Sanitary Landfill with Cover Cost Per cu. Yd. Annual Cost for Shred- ding Operation no Cover Cost Per cu. yd. Quantity of Cover Required with Shredding Operation Annual Cost Shredding with Cover Cost Per cu. yd.	1

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 1 Disposal Site Number 1- Log Boring Location	Map of Ordot Disposal Site Number 1 Showing Log Boring Location		
(The Following 9 Diagrams have the same row labels and column headings)			
Figure 2 Ordot Disposal Site Number 1-Log of Boring Number 1	Shear Strength (pounds per square foot) - 0 thru 5,000 in increments of 1,000	Moisture Content (per- cent) Dry Density (pcf) Depth (ft) Sample Type	
Figure 3 Ordot Disposal Site Number 1-Log of Boring			
Figure 4 Ordot Disposal Site Number 1-Log of Boring Number 4			
Figure 5 Ordot Disposal Site Number 1-Log of Boring Number 5			
Figure 6 Ordot-Disposal Site Number 1-Log of Number 6			
Figure 7 Ordot-Disposal Site Number 1-Log Boring Number 7			
Figure 8 Ordot Disposal Site Number 1-Log of Boring Number 8			
Figure 9 Agana Swamp-Disposal Site Number 3-Log of Boring Number 9			

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 10 Agana Swamp-Disposal Site Number 3-Log of Boring Number 10			
Figure 11 Soil Classification Chart, Agana Swamp Disposal Site (There is also a chart showing key to test data)	Major Division of Soils - Fine Grained Soils - Silts and Clays - Coarse Grained Soils - Gravels - Sands - Highly Organic Soils	Typical Names	
Daily Collection Re- cords Form; Solid Waste Management, Department of Public Works, Guam	Load I Load II Load III (Above 3 categories are each broken down into: - Left Yard - First Stop - Last Stop - Arrival Landfill - Left Landfill	Time Mileage Number of Stops Number of Bags Others Weight	
Plate 1 Site Plan Ordot Dis- posal Site, Ordot Guam; Harding Miller, Lawson and Associates	Map of Ordot Disposal Site Showing - Test Boring Location - Recommended Observa- tion Well Location (Depth in Feet) - Recommended Surface Water Monitoring Location		
Plate 2 Protective Dike Details, Ordot Disposal Site; Harding, Miller, Lawson and Associates	Diagram Showing a Protective Dike Compaction to 90%		
Plate 3 Existing Refuse Fill Cover Details, Ordot Disposal Site Ordot, Guam; Harding, Miller, Lawson and Associates	Diagram Showing the Three Phases of Compacting Refuse		

Title/Date/Source	Row Labels	Column Headings	Notes
Plate 4 Fill Sequence Details, Ordot Disposal Site, Ordot Guam; Harding, Miller, Lawson and Associates	Diagram Showing Which Portions of the Land Fill are Filled First		
Plate 5 Tiki-Type Gas Burner, Ordot Disposal Site, Ordot Guam; Harding, Miller, Lawson and Associates	Detail Diagram Showing the Location of a Tiki-Type Gas Burner		
Plate 6 Subdrain Details, Ordot Disposal Site, Ordot, Guam; Harding, Miller, Lawson and Associates	Diagrams of a Typical Subdrain and a Typical Ravine Drain Showing Compacted Refuse Fill		
Plate 7 Subdrain Details for Ordot Disposal Site, Ordot, Guam; Harding, Miller, Lawson and Associates	Diagrams of a Subdrain Showing Cross Sectional and Plan View Details		
Plate 8 Observation Well Details, Ordot Disposal Site, Ordot, Guam; Harding, Miller, Lawson and Associates	Detail Program Showing the Location on an Observation Well		

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

Title: Solid Waste Management in Guam

Source Agency: Harry R. Little, Bureau of Solid Waste Management, U.S. Dept. HEW

Computerized: No Computer Reference:

General Information: PUT 4

Information Contained on the Document

CONTENTS OF THE APPENDICES

- A. Report of Observations on Solid Waste Management Practices, Guam; Donald M. Keagy and Jack DeMarco, U.S. Dept. HEW: November 1968. Findings on Government of Guam Storage, Collection, Disposal, Management also Naval Air Station and Andersen AFB. Discussion of findings both general and specific
- B. Computations of minimum sample size (109) used to determine solid waste densities.
- C. Solid waste separations to determine composition (results in Table 8).
- D. Moisture - content determination (computations with results in Table D-1)
- E. Effect of rainfall on moisture content of solid waste (formulaes and results). Figure E-1 graphs the relationships between an amount of weekly rainfall and both moisture content and weight per cubic foot.
- F. Results of multiple regression relating productive time to miles covered, number of items and number of services for packer trucks and dump trucks.
- G. Computation of the number of trucks necessary to provide service (based in part on Appendix F).
- H. Reprints part of Section 9660 of Subchapter Q, Government Code of Guam.

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Summary of Estimated Amount of Solid Waste Generated in Civilian Areas of Guam, by Sector	Sector - Residential - Commercial - Government - Hotel and Motel - Industrial - Agricultural - Hospital - School - Labor Camps - Total	Tons Per Day Tons Per Year	
Table 3 Summary of Rainfall at Agana Naval Air Station, Guam, 1952-62 (inches); Ward, P.E., S.H. Hottard, and D.A. Davis, Hydrology of Guam; Geological Survey Professional Paper 403-H Washington, U.S. Gov't. Printing Office, 1965	Month - Jan thru Dec. Annual	Average Maximum Minimum Median	1
Table 5 Distribution of Residential dwelling Units on Guam, March 1, 1969; Dept. of Public Works, Guam	19 Villages Total	Single - Family Units Multiple - Family Units Total	
Table 6 Collected Residential Solid Waste (Weekly Collection)	Route and Date, Collected Average	Items Per Dwelling Volume Per Dwelling (cu ft) Volume Per Item (cu ft) (Above 3 categories are each broken down into:) - Mean - Standard Deviation of the Population	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 7 Estimated Volume and Weight of Residential Solid Waste Collected	19 Villages Total	Total Dwelling Units Cubic Yards Per Year Tons Per Year	
Table 8 Composition of Residential solid waste in Guam, Feb. 26, 1969, to March 5, 1969	Village and Date of Collection Average	Component (Percent by Weight) - Food Waste - Garden Waste - Paper Products - Plastics, Rubber, Leather - Textiles - Wood - Metals - Glass and Ceramics - Rocks Dirt Ashes etc. Sample Weight (lb.) Moisture Content (%)	
Table 9 Composition of Residential Solid Waste in Guam and the Continental United States	Component - Food Waste - Garden Waste - Paper Products - Plastic, Rubber, Leather - Textiles - Wood - Metals - Glass and Ceramics - Rocks, Dirt, Ashes, etc. Total	Average Percent of Component by weight Estimated Pounds of Component Per Capita Per Day (Above categories are each broken down into:) - Guam - Continental United States	
Table 10 Distribution of Commercial and Government Activities in Guam by Village; March 1, 1969; Dept. of Public Works	19 Villages Total	Number of Commercial Establishments Number of Gov't Buildings	
Table 11 Estimated Amounts of Solid Waste Generated Annually by Hotels and Motels on Guam	19 Villages Total	Number of Rooms Tons of Waste Per Year	6

Title/Date/Source	Row Labels	Column Headings	Notes
Table 12 Number and Volume of Solid Waste Samples from Selected Schools on Guam, Feb. 25 to March 7, 1969	Name of School Total	Number of Items Collected Daily Volume (cu ft) Number of Students	7
Table 13 Estimated Weight of Solid Waste Generated by all Schools on Guam	19 Villages Total	Total Number of Students Estimated Tons of Waste Per Day Estimated Tons of Waste Per Year	7
Table 14 Amount of Solid Waste Generated by Labor Camps on Guam	22 Labor Camps	Number of Workers Estimated Tons of Waste Per Year	8
Table 15 Productivity of Collection Vehicle by Type of Truck and Route	Type of Truck and Route	Services Per Mile Services Per Productive Minute Miles Per Productive Minute Items Per Service Items Per Productive Minute	
Table D-1 Solid Waste Moisture - Content Determination, Territory of Guam, Feb. 26, 1969 to Mar. 5, 1969	Type of Sample and Date Collected	Sample Dish Tare Weight (gm) Wet Weight of Sample and Dish Dry weight of Sample and Dish Wet Weight of Sample Dry Weight of Sample Weight Loss Percent Moisture in Sample (Wet Weight)	

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 3 Distribution of Residences on Guam by Type of Waste-storage container (Bar Graph)	Type of Container Used - 55 Gallon Drum Only - 32 Gallon Drum Only - Other Type Only - Combination of Containers	Number of Residences - 0 thru 300	
Figure 6 Distribution of Residences on Guam Using 55-Gallon Waste-Storage Drums, by Number of Drums (Bar Graph)	Number of Residences	Number of Drums Used - One Drum - Two Drums - Three Drums - More than Three Drums	
Figure 7 Distribution of Residences on Guam Using 32-Gallon Waste-Storage Containers, by Number of Containers (Bar Graph)	Number of Residences	Number of Containers Used - One Container - Two Container - Three Container - More than Three	
Figure 8 Distribution of Waste-Storage Containers Used on Guam, by Container Volume (Bar Graph)	Number of Containers	Type of Container Used - 55 Gallon Containers - 32 Gallon Containers - Other Containers	
Figure 19 Solid Waste Disposal Sites on Guam	Map of Guam Showing the Disposal Sites		

NOTES:

- 6 - Number of rooms data from Department of Public Works, March 1969.
 7 - Number of Students data from Department Public Works, March 1, 1969.
 8 - Number of workers data from Department of Public Works, March 1, 1969.

Title: GPA, Official Statement Relating to 1972 Issue Revenue Bonds (Series B)

Source Agency: Guam Power Authority

Computerized: No Computer Reference: _____

General Information: PUT 5

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
GPA; Historical Growth of Electric Sales	Total Customers (Average) Kilowatt Sales Total (Above 2 categories are each broken down into:) - Residential - Large General Service - Small General Service - Government Installations, Small - Government Installations, Large - Street and Outdoor Lighting	1969 thru 1973 (For 12 Months Ending June 30)	
Bar Graph of Island - Wide Power System Power Supply and Demand	Megawatts Military and Civilian Demand and System Capacity	1955 1960 1965 1970 1975 1980	
GPA Estimated Disposition of \$52 Million	Dollars	Production Facilities Transmission, Distribution, and General Plant (Miscellaneous) Gross Capital Requirements Less Funds From GPA Operations Equals \$52 Million	

Title/Date/Source	Row Labels	Column Headings	Notes
1969 - 1973 Revenue Statement with Projections for 1973-1977	Dollars	Estimated Revenue Expenses Fund Allocations	
GPA Estimated Net Revenues of the System, Projected Debt Service Requirements	FY1973 thru FY2009	Estimated Net Revenues of the System Total Debt Service - 1969 \$11 Million Bond Issue - 1972 \$25 Million Series "A" - Total Outstanding 1972 \$17.5 Million Series "B" - Sinking Fund Requirements - Interest (Estimated at 7 Percent) - Total Debt Service Estimated Total Debt Service \$9.5 Million Series "C" (1972) Estimated Total Debt Service for \$52 Million Bond Issue (1972) and \$11 Million Bond Issue (1969) Coverage of Current Annual Debt Service (The Ratio of Revenue to Debt Service)	

Title: Computer Printouts and Reports

Source Agency: Guam Power Authority

Computerized: Yes Computer Reference: PUT Detail 30

General Information: PUT 5

Information Contained on the Document

The Data Processing Division of GPA produces many computer printouts and reports with information of use to planners. The following are descriptions of GPA's billing system, the terms used in the reports and thirteen selected reports.

Much of GPA's billing information is reported by totals for all accounts covered by a meter book. Since the books cover small geographic areas they provide a geographic profile of power use and consumption.

The analysis of GovGuam power usage is used by the Guam Energy Office in conservation planning.

GPA BILLING SYSTEM:

For billing purposes, all Guam is divided into four divisions. Reading all the meters in a division is a billing cycle. Each division is divided into routes and each route is divided into books. On average, a division has five routes and a route has six books. The books have a meter-reading sheet for each meter in a given area.

The meter reading for the previous month is subtracted from the meter reading for the current (or present) month. This amount is multiplied by a multiplier to arrive at KWH (kilowatt-hours) as the meters run at different ratios to actual usage.

GPA also measures the highest demand for electricity for the month for larger customers. If usage is high enough to warrant the action, a residential customer will be re-classified as "small general". The meter installed, called a "three-phase meter", measures kilowatt demand once every 15 minutes and records the highest demand reached that month.

BILLING DEFINITIONS:

KWH Usage - actual kilowatt-hours consumed by the customer (or estimated if meter is not read)

KWH Amount - charge for KWH Usage

KW Usage - highest demand registered that month (not applicable to Residential-Class customers)

KW Amount - charge for KW Usage

Surcharge - 10% of KWH Amount plus 10% KW Amount

Fuel Charge - the total cost of fuel consumed generating electricity expressed as a rate per KWH. There is a two-month "lag time", that is, the fuel charge rate for March is based on January's costs. Also called Fuel Adjustment.

Billing Amount - the total bill; also called total amount.

Billing Computations for Residential Accounts is produced each month (as the fuel charge varies each month) and shows the bill component amounts for any given number of KWH (kilowatt-hours) up to 5000 KWH. The column headings are: Number of KWH (usage), KWH amount, surcharge amount, fuel charge amount, total billing amount.

Billing Register lists the bill for each customer for the month by account numbers. The column headings are:

Account Number	KW Amount
Customer Name	Surcharge
Present Reading	Fuel Charge
Previous Reading	Total Billing for Month
Service Code	Arrears/Debits
KWH Usage	Credits
KWH Amount	Total Billing to Customer
KW Usage (Maximum Demand)	

Readings Proof Sheet contains the meter readings and other information used in checking the reasonableness of recorded meter readings for the month. Each account is reviewed. The column headings are:

Account Number	KW Usage (Demand)
Customer Name	KWH Usage
Meter Number	Service Code
Number of Dials on the Meter	(Historical Information Follows)
Present Reading	Highest Consumption
Previous Reading	Lowest Consumption
Consumption (Difference in Readings)	Previous Consumptions (Three)
Multiplier	

Government of Guam Departmental Billing Recap shows the current billing totals for each department and totals for the government and is produced each month. The column headings are: electric consumption (KWH usage), total billing amount, arrears, total amount due.

Monthly Billing Summary for each department shows billing information by account number and departmental totals. This report has the same information as the above but is broken down by account number and also shows present and previous meter readings, allotment number, location (for instance: village or billing address or building number).

Government Billing Analysis Summary is provided to the Guam Energy Office to show trends in power usage by departments. The column headings are: previous consumption (KWH usage), present consumption, accumulated consumption, increase or decrease (as KWH and %).

Government Billing Analysis is also provided to the Guam Energy Office and shows the same information as the summary report but broken down by account number with totals for each department. Meter number and location are also shown.

Cycle Billing Data is used to break out the fuel charges collected by type of service. The types of service are:

Residential	Large Government
Small General	Street Lights - Residential
Large General	Street Lights - Business
Small Government	Street Lights - Government

For each type of service, the column headings are: number of accounts, number of streetlights, KWH usage, fuel billing amount, regular billing amount (all charges except fuel charge) and total billing amount. Totals are shown for each.

Daily Billing Recap has the same information as Cycle Billing Data but is broken down for each book. There is also a billing summary for each meter book showing totals for: utility billing amount (all charges except fuel charge), fuel charge, accounts receivable, accounts in arrears, grand total due.

Billing Control Sheet shows the power usage and billing data totalled by meter books. The entries are identical to those in the Billing Register but, since they are totals for the meter book, account numbers, customer names and KW usage (maximum demand) are excluded. The report is used internally by GPA to balance accounts.

Demand Consumption for Eleven Consecutive Months shows the highest demand reading for each month for each account with a meter measuring demand (KW usage). Used by GPA accounting to set KW amount as per tariff rules (minimum rate is dependent on highest demand for previous year). Lists demand figures by account number.

Accrued Billing Cycle Summary allocates the consumption data and billing amounts for the current billing period to the two calendar months which contribute to the billing period. The column headings are:

Meter Book Number
 Location (Area Covered by Books)
 Service Date From
 Service Date To
 Number of Days in Billing Period
 (for the first calendar month and the second calendar month)
 Number of Days That Month in Billing Period
 * KWH Usage That Month
 * Billing Amount (Total) That Month
 Total KWH Usage (for period)
 Total Billing Amount (for period)

* these are computed by dividing the "number of days that month in billing period" by the "number of days in billing period" and multiplying this ratio by "Total KWH Usage" and "Total Billing Amount".

Kilowatt (KW Usage) Demand Report is used by GPA engineering to check customer load versus transformer capacity to allow time to change line equipment and avoid equipment failure due to overloading. The column headings are:

Account Number	KW Usage (Maximum Demand)
Service Code	Multiplier (For Meter)
Customer Name	Load Factor
Meter Number	Kilo-Volt-Amperes
KWH Usage	

The last two items listed are measures of demand used by engineers.

Title: Audit Report on Guam Power Authority (Number RG 76-01)
 Source Agency: Government Comptroller for Guam, U.S. Department of the Interior
 Computerized: No Computer Reference: _____
 General Information: PUT 6

Information Contained on the Document

TITLES OF THE STATEMENTS OF CONDITION AND RECOMMENDATIONS (SOCARS)

1. Action Taken on Prior Audit Report RG 72-9
2. GPA Financial Stability
3. Management of Meter Readings and Customer Billings
4. Fuel Purchases
5. GPA Fuel Oil Requirements
6. Procurement Policies and Practices
7. Capital Improvement Programs
8. GPA Personnel Reclassification
9. Hiring and Retention Practices
10. Certain Management Practices
11. Aquisition of a new Computer
12. FY1974 Annual Report
13. GPA Per Diem Travel Expenses
14. Vehicle Operations
15. Plant Maintenance

Title: Audit Report on Guam Telephone Authority
 Source Agency: Government Comptroller for Guam, U.S. Department of the Interior
 Computerized: No Computer Reference: _____
 General Information: PUT 7

Information Contained on the Document

1. Action Taken on Prior Audit Recommendations: Audit Report RG 73-9.
2. Certified Public Accountants Audit Statements
3. GTA Mission (legal organization and ownership)
4. Control Over Telephone Billings
5. One-Way Service
6. Long Distance Toll Revenue
7. Businesses Billed at Residential Rates
8. Collection Procedures for Delinquent Accounts
9. Telephone Instruments
10. Maintenance Expenses
11. GTA Labor Force
12. Telephone Deposits
13. Billing Credit Procedures and Policies
14. Accounting Procedures and Practices
15. Use of Navy Billing Rates
16. GTA Travel Policies

Title: Guam Master Plan Study: Infrastructure

Source Agency: Greenleaf/Telesca-Ahn

Computerized: No Computer Reference: _____

General Information: PUT 8

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table I Telephones in Use; "Statistical Abstract- Guam, 1970", Economics Research Center; Dept. of Commerce	FY 1961 thru FY 1970 (on June 30)	Residential Commercial and Government Total	
Table II Monthly Telephone Service Charge; "Facts about doing Business on Guam". Economic Research Center, Dept. of Commerce, Nov. 1969	Type - Individual Line - Two-Party Line - Rural Service	Residential Business	
Table III Telephone Revenue (\$ Thousands); "Statistical Abstract Guam, 1970", Economic Research Center, Dept. of Commerce	FY 1961 thru FY 1970	Residential Commercial and Government Total	
Table IV Existing Telephone Exchanges; IHCO/PAGE Development Plan, Gov't of Guam - PUAG	Exchange - Agana - Agat - Mangilao - Merizo - Tumon Total	Lines Terminals Primary Stations	
Table V Civilian Population Projection, 1970-1990	Municipality - 19 Municipalities - Total	Year - 1970 thru 1990 in increments of 5 years	

Title/Date/Source	Row Labels	Column Headings	Notes
Table VI Federal Housing Administration, Planned and/or Committed FHA Applications	List of Federal Housing Administration Applications	Dwelling Units	
Table VII Guam Housing and Urban Renewal Authority, GHURA - Year Public Hsg.-Rental	Identification No. - Sinajana 1 and 2 - Agana Hts. - Mongmong - Toto - Yona (Non-Funded) - Inarajan, Talofofo, Merizo	Units	
Table VIII Guam Housing Corp. Ten Year Housing Plan	1972 Apartments SW of Hawaii Kai 1972 thru 1981 Locations not Identified Total	Units	
Table IX Population and Dwelling Unit Distribution; U.S. Dept. of Commerce, Bureau of the Census, Preliminary Report, Sept. 1970	Communities - 19 Districts Total	Population Dwelling Units Average People/D.U.	1
Table X Domestic Telephone Requirements (Primary Station); Years 1972-1976 from IHCO/PAGE Development Program	Year - 1971 thru 1976 - 1980 thru 1990 in increments of 5 years	Domestic Subscribers	
Table XI Commercial and Industrial Sector, Developments and Projects	List of 17 Developments and Projects		
Table XII Commercial/Industrial Sector Telephone Require- ments; Years 1971-1976 from IHCO/PAGE Development Program	Year - 1971 thru 1976 - 1980 thru 1990 in increments of 5 years	Primary Stations PBX Trunks Total	

Title/Date/Source	Row Labels	Column Headings	Notes
Table XIII Hotel Room Inventory Projection	Year - 1971 thru 1975 - 1980 thru 1990 in increments of 5 years	Room Inventory Projection Tourist and "Other" Visitors	
Table XIV Summary of Telephone Requirements; Years 1971- 1976 from IHCO/PAGE Development Program	Year - 1971 thru 1979 - 1980 thru 1990 in increments of 5 years	Domestic Commercial/Industrial Total Primary Station Extensions Total	
Table XV 5-Year Subscriber Forecast (Primary Stations); Years 1971-1976 from IHCO/PAGE Development Program	Merizo Agat Mangilao Agana Tumon Talofofo Dededo Yigo	Exchange Area Year - 1971 thru 1976 - 1980 thru 1990 in increments of 5 years	
Table XVI 5-Year Capital Development Program	List of 55 Development Programs	Cost Total	
Table XVII Budget Projection with No Rate Increase in Million Dollars; IHCO/PAGE 5-Year Development Plan	Local Business Local Residential Toll (RCA) Operating Expense Financing Expenses Total Net Income (Loss)	FY1971 thru FY1976 - Revenue - Expense	
Table XIX Budget Projection with Rate Increase in Million Dollars; IHCO/PAGE 5-Year Development Plan			
(Tables XVII and XIX have the same Row Labels and Column Headings			

Title/Date/Source	Row Labels	Column Headings	Notes
Table XVIII Proposed Telephone Monthly Rates; IHCO/PAGE 5-Year Development Plan	Type - Individual - Two-Party Line - Rural - Extension - PBX Trunk - PBX Extension	Residential Business	
Table I 5-Year Telephone Development Plan	Map of Guam Showing - Exchange Boundaries (Exist and Proposed) - PUAG Telephone (Exist and Proposed) - Military Telephone Exchange - Housing Development FHA (Exist and Proposed) - Housing Developments GHURA (Exist and Proposed) - Guam Housing Corp - Held Orders - Commercial Development		

Title: Brief on Proposed Rate Increase

Source Agency: Public Utility Agency of Guam

Computerized: No Computer Reference: _____

General Information: PUT 9

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Water Production, Sales and Losses; FY1970-FY1976	Year - FY1970 thru FY1976	Water Production Million Gallons Water Sales Million Gallons Water Losses Million Gallons Percent Water Losses	
Active Meters and Sewer Connection, FY1971-FY1980	Year - FY1971 thru FY1980	Water Active Meters Sewer Connection	5
Operating Revenue and Maintenance Expense for Water and Sewer; FY1970-FY1981	Year - FY1970 thru FY1981	Operating Revenue Operation and Maintenance Expense (Above 2 Categories are each broken down into:) - Water - Sewer - Total	5

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

Title: Audit Report on Public Utility Agency of Guam

Source Agency: Government Comptroller for Guam, U.S. Department of the Interior

Computerized: No Computer Reference: _____

General Information: PUT 9

Information Contained on the Document

AUDIT REPORT NUMBER RG 76-6, MAY, 1976

STATEMENTS OF CONDITION AND RECOMMENDATIONS (SOCARS)

1. Actions Taken on Prior Audit Reports Numbers RG 70-4 and RG 73-9
2. Budgeting Practices and Procedures
3. The PUAG Water and Sewer Rate Structures
4. Accounting for Administrative Costs
5. Delinquent Accounts Receivable
6. Inventory Management
7. In-House Project Job Orders
8. Revenue Accounting System
9. Terminated Customer Receivables
10. Manual Duplication of Computer Effort
11. Water Supply and Water Sources Development Contract
12. Engineering Reports on the Utility Plant Valuation and Record System
13. Accounting for Fixed Assets
14. Construction in Progress
15. Service Connection Fee Subsidiary Ledger

Title: Master Plan Report Guam Water System Improvements - FY1972 to 1982

Source Agency: Austin, Smith & Associates, Inc. Consulting Engineers Agana, Guam -
Honolulu, Hawaii

Computerized: No Computer Reference:

General Information: PUT 10

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Exhibit No. 5 Population/Consumption Tables			
5.1 Total Island Population	Year - 1972 thru 1982	Civilian Total - Northern (30%) - Central (51%) - Southern (19%)	
5.2 Northern District	Report Year - 1972 thru 1982	Civilian Population Demand Rate gpcd Total Demand MGD GPM Average GPM Peak (x2.25)	
5.3 Central District (Above 2 tables have the same row labels and column headings)			
5.4 Southern District	Report Year - 1972 thru 1982	Civilian Population Demand Rate gpcd Demand MGD - Domestic - Agriculture GPM Average Domestic GPM Peak Domestic Total MGD Average, Domestic and Agricul- tural	
Exhibit No. 1 Map of Guam	Map of Guam Showing - Central District - Southern District - Northern District		

Title/Date/Source	Row Labels	Column Headings	Notes
Exhibit No. 2 Northern District	Map Showing - Spring - Well - Water Line - Report Item No. - Dam - Treatment Plant		
Exhibit No. 3 Central District			
Exhibit No. 4 Southern District (Above 3 Exhibits have the same Row Labels)			
Exhibit No. 6 Vertical Sections of Northern District, Southern District and Central District	Diagram Showing - Government of Guam System - Navy System - Air Force System - Booster Pump		

Title: Waste Water Facilities Plan - Preliminary Submittal Area I

Source Agency: Gilham, Koebig and Koebig, Inc.

Computerized: No Computer Reference:

General Information: PUT 11

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Figure I-1 Area Index Map	Map of Guam Showing 5 Geographic Areas of the Wastewater Facilities Plan		
Figure II-1 Mean Annual Rainfall on Guam	Map of Guam Showing Distribution of the Mean Annual Rainfall on Guam		
Figure II-2 Physiographic Divisions (Area 1)	Partial Map of Guam Showing: - Mountainous Land - Coastal Lowland and Valley Floors - Rough Summit Land - Interior Basin and Broken Land - Dissected Sloping and Rolling Land - Plateau Land		
Figure II-3 Geology Map (Area 1)	Partial Map of Guam Showing: - Dandan Basalt Member - Maemong Limestone Member - Alifan Limestone - Bolanos Conglomerate Member - Bonga Limestone - Faepi Basalt Member - Alluvium - Reef Facies - Beach Deposits - Agana Argillaceous Member		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure II-4 Soils (Area 1)	Partial Map of Guam Showing: - Agat-Asan-Atate Clay (Hilly) - Agat-Asan Clay and Rock (Steep) - Limestone Rock Land (Steep) - Pago Clay - Inarajan Clay - Yona-Chacha Clay - Atate-Agat Clay (Rolling) - Guam Clay - Shioya Soils		
Figure II-5 Fringing Reefs and Vegetation (Area 1)	Partial Map of Guam Showing: - Mixed Forest on Volcanic Soil in Ravines and on Lime- stone Outcrops in Valleys - Savanna - Fringing Reefs - Mixed Forest on Lime- stone Plateaus and Cliffs - Predominantly Open Ground and Pasture - Coconut Plantation - Swamp Forest		
Figure II-6 Archaeology and Historic Sites (Area 1)	Partial Map of Guam Showing: - Marianas - Guam - Umatac - Merizo - Park - Proposed Park - Historical Site - Archeological Site		
Table II-2 Historical and Archeolo- gical Sites	Name of 13 Sites	Location Size National Register of Historic Places	

Title/Date/Source	Row Labels	Column Headings	Notes
Table II-3 Classification of Other Areas into Categories: Conservation of Natural Preserves, Recreation Areas or Park Facilities	Names of 13 Sites	Location Size Category	
Table II-4 Frequency of Occurrence of Deep Water Waves	Days Per Year	Wave Height Category (Feet) - 1 - 1 thru 3 - 3 thru 5 - 5 thru 8 - 8 thru 12 - 12 thru 16 - 16 thru 24 - 24 and more	
Table II-5 Number of Typhoons Crossing or Passing Within 30 Miles of Guam	Month - January thru April - May thru December - Total	Crossing Guam Passing Within 30 Miles of Guam	
Figure II-7 Typical Tradewind Current Pattern (Values in Knots)	Map of Guam Showing Tradewind Current Pattern		
Table III-1 Treatment Requirements and Disposal Modes	Treatment Level	Process Description Disposal Mode Suspended Solids Mgl/l Biological Oxygen Demand Mgl/l Effluent Quality - Total Coliform M PN/100 ml - Fecal Coliform No/100 ml - Toxicants - Ammonia Mgl/l - Toxicity Concentration t.u. - Biostimulants - Total Nitrogen Mgl - Total Phosphorus Mgl	
Figure IV-1 Population Map (Area 1)	Partial Map of Guam Showing Population of Specified Areas		

Title/Date/Source	Row Labels	Column Headings	Notes
Table IV-1 Cost Per Linear foot for ACP Sewer Including Excavation, Backfill Sand Casing and Manholes	Size - Length in Feet	Size - Diameter in Inches	
Figure IV-2 thru IV-4 are Charts Showing Construction and Maintenance Costs			

Title: Wastewater Facilities Plan - Area I Preliminary Submittal

Source Agency: Gillham, Koebig and Koebig, Inc.

Computerized: No Computer Reference:

General Information: PUT 11

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Figure II-1 Area Index Map	Map of Guam Showing 5 Geographic Areas of the Wastewater Facilities Plan		
Table III-1 Federal Secondary Treat- ment Effluent Require- ments	Parameter	Unit Value - Monthly Average - Weekly Average	
Figure III-1 Water Categories Map	Map Showing: - Estuaries - Marine Waters - Fresh Surface Waters - Ground Water		
Figure III-2 Segment Classification Map	Area Map of Guam Showing: - Effluent Limitation Segment - Water Quality Segment		
Table III-2 Water Quality Standards and Dilutions for Ocean Disposal to Category A Waters	Parameter	Unit Receiving Water Standard Concentration in Sec- ondary Effluent Required Dilution	6
Table III-3 Water Quality Standards and Dilutions for Stream Disposal to Category 2a-II Waters	Parameter	Unit Receiving Water Standard Concentration in Sec- ondary Effluent - Required Dilution Concentration in Nutrient Reduced Effluent - Required Dilution	6

Title/Date/Source	Row Labels	Column Headings	Notes
Table III-4 River and Wastewater Flows	River - La Sa Fua - Umatac - Geus - Inarajan - Tolaeyuus - Talofofo Community - 1,000 Population - 5,000 Population - 10,000 Population - 25,000 Population	Average Flow (cfs) Minimum Flow (cfs)	
Table III-5 Suggested Guidelines for Salinity in Irrigation Water	Crop Responses	Total Dissolved Solids mg/l Trace Element Concentra- tion mmhos/cm	
Table III-6 Selected Recommended Limits for Trace Elements in Irrigation Waters	List of 18 Elements	For Waters Used Conti- nuously on all Soil For Use up to 20 Years on Fine Textured Soils of pH 6.0 to 8.5 (Only) For Short-Term Use on Fine Textured Soil	
Table III-7 Treatment Requirements and Disposal Modes	Treatment Levels	Process Description Disposal Mode Suspended Solids mg/l Biological Oxygen Demand mg/l Effluent Quality - Total Coliform MPN/100 ml - Fecal Coliform No/100 ml - Toxicants - Ammonia mg/l - Toxicity Concentra- tion T.U. - Biostimulants - Total Nitrogen mg/l - Total Phosphorus mg/l	
Figure IV-1 Point Source Discharge Fresh Surface Water	Map of Guam Showing Places Where Pollution is Discharged into Fresh Surface Waters		

Title/Date/Source	Row Labels	Column Headings	Notes
Table IV-1 Point Source Discharges - Fresh Surface Waters; Area 1	Point Source Numbers	Description Source Receiving Water	
Figure IV-2 Point Source Discharges - Coastal Sea Water	Map of Guam Showing Places Where Pollution is Discharged into Coastal Sea Waters		
Table IV-2 Point Source Discharges - Coastal Sea Water Area 1	Point Source Numbers	Description Source Receiving Water	
Figure VI-1 Mean Annual Rainfall on Guam	Map of Guam Showing Distribution of the Mean Annual Rainfall on Guam		
Figure VI-2 Physiographic Divisions (Area 1)	Partial Map of Guam Showing: - Mountainous Land - Coastal Lowland and Valley Floors - Rough Summit Land - Interior Basin and Broken Land - Plateau Land - Dissected Sloping and Rolling Land		
Figure VI-3 Geology Map (Area 1)	Partial Map of Guam Showing: - Dandan Basalt Member - Maemong Limestone Member - Alifan Limestone - Bolanos Conglomerate Member - Bonya Limestone - Facpi Basalt Member - Alluvium - Reef Facies - Beach Deposits - Agana Argillaceous Member		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure VI-4 Soils (Area 1)	Partial Map of Guam Showing: - Agat-Asan-Atate Clay (Hilly) - Agat-Asan Clay and Rock (Steep) - Limestone Rock Land (Steep) - Pago Clay - Inarajan Clay - Yona-Chacha Clay - Atate-Agat Clay (Rolling) - Guam Clay - Shioya Soils		
Figure VI-5 Fringing Reefs of Vegetation (Area 1)	Partial Map of Guam Showing: - Mixed Forest on Vol- canic Soil in Ravines and on Limestone Outcrops in Valleys - Savanna - Fringing Reefs - Mixed Forest on Lime- stone Plateaus and Cliffs - Predominantly Open Ground and Pasture - Coconut Plantation - Swamp Forest		
Figure VI-6 Archaeology and Historic Sites (Area 1)	Partial Map of Guam Showing: - Park - Proposed Park - Historical Site - Archaeological Site		
Table VI-2 Historical and Archaeo- logical Sites	Names of 13 Sites	Location Size National Register of Historic Places	
Table VI-3 Classification of Other Areas into Categories: Conservation of Natural Preserves, Recreation Areas or Park Facilities	Names of 13 Sites	Location Size Category	

Title/Date/Source	Row Labels	Column Headings	Notes
Table VI-4 Frequency of Occurrence of Deep Water Waves	Days Per Year	Wave Height Category (Feet) - 1 - 1 thru 3 - 3 thru 5 - 5 thru 8 - 8 thru 12 - 12 thru 16 - 16 thru 24 - More than 24	
Table VI-5 Number of Typhoons Crossing or Passing Within 30 Miles of Guam 1950-1963	Month - January thru April - May thru December in Increments of 1 Month - Total	Crossing Guam Passing Within 30 Miles of Guam	
Figure VI-7 Typical Tradewind Current Pattern (Values in Knots)	Map of Guam Showing Trade Tradewind Current Pattern		
Table VII-1 Population Projections, Island of Guam	Method - Diminishing Birth Rate - Series B - Constant Birth Rate	Year - 1975 thru 2000 in Increments of 5 Years	1
Figure VII-1 Population Map (Area 1)	Partial Map of Guam Showing: - Rural Areas - Urban Areas		
(The Following 2 Figures have the same Row Labels)			
Analysis of Alternates	Diagram Showing the Rationale Underlying the Screening Process: - First Screen - Disposal Modes - Second Screen - Facili- ty Siting - Third Screen - Treat- ment Processes		
Figure VIII-1 Umatac Area			
Figure VIII-2 Merizo Area			
Table VIII-1 Present Worth Cost Comparison of Combined and Separate Systems Values in Million Dollars	Disposal Mode - Ocean - Land	Umatac Alone Merizo Alone Present Worth in Millions - Total - Combined System	

Title/Date/Source	Row Labels	Column Headings	Notes
Figure VIII-3 Alternate I-5A	Partial Map of Guam Showing: - Gravity Line - Force Main - Existing Main Road (Route 4)		
Figure VIII-4 Alternate I-9A			
Figure VIII-5 Alternate I-12A			
Figure VIII-6 Alternate I-15A			
(Above 4 Figures Each Have the Same Row Labels)			
Figure VIII-7 Ocean Outfall Depths Required to Meet Existing Water Quality Standards (Graph Showing Nutrient Concentration and Flow Rates)	Discharge Depth - Feet	Dilution Factor	
Table VIII-2 Projected Population 20 Year Planning Period	Village - Umatac - Merizo Total	Urban Rural Total	
Table VIII-3 Population Served Upon Completion of Construction	Village - Umatac - Merizo Total	Phase I Phase II (Above 2 Categories are each broken down into:) - Urban - Rural - Total	
Table VIII-4 Cost Per Linear Foot - Gravity Sewer and Force Main	Depth in Feet	Size in Inches	
Figure VIII-8 Proposed Ocean Outfall Construction	Plan and Elevation of Ocean Outfall Construc- tion		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure VIII-9 Annual Operation and Maintenance Costs (Graph Showing Treatment Aerated Lagoons and Pump Stations)	Thousands of Dollars	Flow (mgd)	
Figure VIII-10 Aerated Lagoons - Toguan Bay	Map Showing: - Location of the Aerated Lagoons Section of the Aerated Lagoon		
Figure VIII-11 Aerated Lagoons - Geus River			
(The Above 2 Figures Each Have the Same Row Labels)			
Figure VIII-12 Land Disposal Construction, Operation and Maintenance Costs (Graph)	Construction Cost Operation and Maintenance - Annual Cost	Area in Acres	
Table VIII-5 Operation and Maintenance Costs	Category - Pump Stations - Treatment Plants - Land Disposal	Cost	
Table VIII-6 Estimated Land Costs	Category - Pumping Stations - Treatment Plant - Land Disposal - Pipeline Right of Way	Value Per Square Meter	
Table VIII-7 Capital Cost - Area 1, Values in \$1,000 Phase I and Phase II	List of Items	6 Alternates	
Table VIII-8 Annual Cost - Area 1 Values in \$1,000, Phase I and Phase II	List of Items	6 Alternates - Power - Operation and Maintenance	
Table VIII-9 Present Worth - Phases I Plus II Area 1 - Value in \$1,000	List of Items	6 Alternates	

Title/Date/Source	Row Labels	Column Headings	Notes
Table IX-1 Evaluation of Alternates	Unweighted Parameters - Economic Factors Weighted Parameters - Environmental Factors - Feasibility Factors - Performance Factors	Alternates - Relative Weight	
Table IX-2 Environmental Factors Evaluation Scale	Scale of 10 to 1	Fresh Surface and Ocean Water Quality Wildlife Ground Water Quality Air Quality Growth Inducement Recreation and Aesthetics	
Table IX-3 Feasibility Factors Evaluation Scale	Scale of 10 to 1	Land Use Compatibility Ease of Implementation Public Acceptability	
Table IX-4 Performance Factors Evaluation Scale	Scale of 10 to 1	System Reliability System Flexibility Permanence	
Table IX-5 Evaluation of Alternatives Area 1	Unweighted Parameters - Economic Factors Weighted Parameters - Environmental Factors - Feasibility Factors - Performance Factors	5 Alternatives No Action (Above 2 Categories are each broken down into:) - Relative Weight	
Table IX-6 Total Weighted Ratings	Factor - Economic - Environmental - Feasibility - Performance Total	5 Alternates No Action	
Figure IX-1 Sheet 1 Selected Plan Alternate 1-5A	Partial Map of Guam Showing Alternate 1-5A - Gravity Line - Force Main - Existing Main Road (Route 4)		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure IX-1 Sheet 2 thru Sheet 10 Wastewater Facilities Plan Alternate 1-5A	9 Plan and Profiles Showing: - Ocean Outfall - Gravity Lines - Forced Main - Existing Main Route (Route 4) - Pump Stations		
NOTES: Notes 1 thru 5 are standards notes, refer to introduction. 6 - Parameters: Fecal Coliform; Total Nitrogen; Total Phosphorus; Dissolved Oxygen; Turbidity.			

Title: Wastewater Facilities Plan - Preliminary Submittal Area II

Source Agency: Gillham, Koebig and Koebig, Inc.

Computerized: No Computer Reference: _____

General Information: PUT 11

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table A-1 Water Quality Standards and Dilutions for Ocean Disposal to Category A Waters	Parameter	Unit Receiving Water Standard Concentration in Secondary Effluent Required Dilution	6
Ocean Outfall Depths Required to Meet Existing Water Quality Standards for Category "A" Waters Area II	Discharge Depth-Feet - 1 thru 10 - 10 thru 100 in Increments of 10 Feet	Dilution Factor - 1 thru 10 - 20 thru 100 in Increments of 10 - 100 thru 500 in Increments of 100	
Figure A-1 2 Discharge Ports			
Figure A-2 3 Discharge Ports			
(Graph Showing Fecal Coliform, Dissolved Oxygen; Turbidity; Total Nitrogen; Total Phosphorus)			
There are 13 pages of sample calculations. They show Design Analysis for Main Lines, Line II A, Line A 2, Line A 5, Ocean Outfall, Raw Pump Station, Effluent Pump Station, lagoons, and annual cost for power			
NOTES: Notes 1 thru 5 are standard notes, refer to introduction. 6 - Parameters: Fecal Coliform; Total Nitrogen; Total Phosphorus; Dissolved Oxygen; Turbidity.			

Title: Wastewater Facilities Plan-Goals and Treatment Requirements

Source Agency: Gillham, Koebig and Koebig, Inc.

Computerized: No Computer Reference: _____

General Information: PUT 11

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table III-1 Federal Secondary Treatment Effluent Requirements	Parameter	Unit Value - Monthly Average - Weekly Average	6
Figure III -1 Water Categories	Map of Guam Showing - Estuaries - Marine Waters - Fresh Surface Waters - Ground Water		
Figure III-2 Segment Classification Map	Map of Guam Showing - Effluent Limitation Segment - Water Quality Segment		
Table III-2 Water quality Standards and Dilutions for Ocean Disposal to Category A Waters	Parameter	Unit Receiving Water Standard Concentration in Secondary Effluent Required Dilution	6
Table III-3 Water Quality Standards and Dilutions for Stream Disposal to Category 2a-II Waters	Parameter	Unit Receiving Water Standard Concentration in Secondary Effluent Required Dilution Concentration in Nutrient Reduced Effluent Required Dilution	6

Title/Date/Source	Row Labels	Column Headings	Notes
Table III-4 River and Wastewater Flows	River - La Sa Fua - Umatac - Geus - Inarajan - Tolaeyuus - Talofofo Community - 1,000 Population - 5,000 Population - 10,000 Population - 25,000 Population	Average Flow (etc.) Minimum Flow (etc.)	
Table III-5 Suggested Guidelines for Salinity in Irrigation Water	Crop Responses	Total Dissolved Solids mg/l Trace Element Concentration mmhos/cm	
Table III-6 Selected Recommended Limits for Trace Elements in Irrigation Waters	List of Elements	For Waters Used Continuously on All Soil For Use Up to 20 Years on Five Textured Soils of PH 6.0 to 8.5 (Only) for Short - Term Use on Five Textured Soil	
Table III-7 Treatment Requirements and Disposal Modes	Treatment Levels	Process Description Disposal Mode Suspended Solids Biological Oxygen Demand mg/l Effluent Quality - Total Coliform MPH/100 ml - Fecal Coliform no/100 ml - Toxicants - Ammonia mg/l - Toxicity Concentration t.u. - Biostimulants - Total Nitrogen mg/l - Total Phosphorus mg/l	

NOTES:

6 - Parameter: Biochemical Oxygen Demand (time day), Suspended Solids, Ultimate Biochemical Oxygen Demand, Ultimate Oxygen Demand, Fecal Coliform, PH, Total Nitrogen, Total Phosphorus, Dissolved Oxygen, Turbidity.

Title: Wastewater Facilities Plan - Terrestrial Flora and Terrestrial Fauna
 Source Agency: Gillham, Koebig and Koebig, Inc.
 Computerized: No Computer Reference: _____
 General Information: PUT 11

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Figure I-1 Area Index Map	Map of Guam Showing the 5 Geographic Areas of the Wastewater Facili- ties Plan		
Figure II-5 Fringing Reefs and Vegetation (Separate Maps for Area I, II, III, IV and V)	Partial Maps of Guam Showing: - Mixed Forest on Vol- canic Soil in Ravines and on Limestone Outcrops in Valleys - Savanna - Fringing Reefs - Mixed Forest on Lime- stone Plateaus and Cliffs - Predominantly Open Ground and Pasture - Coconut Plantation - Swamp Forest - Secondary Thicket and Cultivated Ground - Bare Ground and Herba- ceous to Shrubby Vegetation at Military Installations - Reed Marsh		
Table 1 Checklist of Guam Birds	None	Scientific Names Common Names	

Title: Umatac Waste Water District - Facilities Planning StudySource Agency: Juan C. Tenorio and Associates Inc.Computerized: No Computer Reference: _____General Information: PUT 16

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Plate Number 1 General Location Map	Map of Guam Showing - Umatac Sewer System Project Location		
Plate Number 2 Umatac Waste Water District	Map Showing - Proposed Site of Umatac Subdivision - Umatac Sewer System		
Plate Number 3 Aerial Photo Umatac Waste Water District	Aerial Photo Showing - Umatac Sewer System		
Plate Number 4 Slope Analysis of Waste Water District	Map Showing - 0% to 15% Slopes - 15% to 30% Slopes - More than 30% Slopes - Drainage Patterns		
Plate Number 5 Cadastral Map of Basic Lots, Umatac	Map Showing Land Subdivisions in Umatac - Madog River - Laelae River - Umatac River - Umatac Village		
Plate Number 6 Existing Land Use Map Umatac Village and Vicinity	Map of Umatac Showing Zoning - Commercial - R-1 - R-2 - Rural		

Title/Date/Source	Row Labels	Column Headings	Notes
Plate Number 7 Separate Systems Umatac and Merizo	Map of Umatac Sewer System Showing - Sewage Treatment Plant - Force Main and Outfall		
Plate Number 8 Combined System Umatac and Merizo	Map Showing - Lift Station - Sewage Treatment Plant - Force Main and Outfall - Gravity Line		
Plate Number 9 Sewer Collection System Master Plan	Areal Photo Map of Umatac Showing - Existing Sewer Line Under Construction - Proposed Sewer Interceptor, Phase I - Proposed Sewer Collector, Phase I - Proposed Sewer Interceptor, Phase II - Proposed Sewer Collection, Phase III		
Plate Number 10 Proposed Location Plant and Outfall	Map of Proposed Umatac Sewage Treatment Plant Showing - Location - Outfall		
Plate Number 11 Schematic-Umatac Sewage Treatment Plant	Diagram Showing - Raw Sewage - Grit Removal and/or Grinding - Aeration Tank - Final Clarifier - Effluent		

Title: Agat - Santa Rita Waste Water District - Pre Design Study

Source Agency: Austin, Smith and Associates, Inc. Engineers Surveyors

Computerized: No Computer Reference: _____

General Information: PUT 16

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Populations for Guam-Agat-Santa Rita with military and civilian contributions; U.S. Census of Population - 1960, 1970	Guam Agat Santa Rita Agat - Santa Rita	Year - 1960 - 1970 (Above 2 Categories are each broken down into:) - Total - Civilian - Military	1
Table 2 Population Projections for Territory of Guam and Agat - Santa Rita Study area military and Civilian Areas, 1960-2020, ERC, Department of Commerce, U.S. Census of Populations-1960, 1970	Year - 1960 thru 1980 - 1980 thru 2020 in increments of 10 years	Guam Total Military Total Guam Less Military Agat - Santa Rita (Civilian)	1 6
Table 3 Zoning, Public Reservation, and Densities	Zoning - R-1-Residential - R-2-Multiple Family - PUD-Planned Unit - A-Agricultural - C-Commercial - M-Industrial	Public Reservation Required % Allowable Density Persons/Acre Project Density Persons/Acre	7
Table 4 Existing Zoning of the Agat-Santa Rita Study Area	Zoning - R-1 - R-2 - C - PUD - M - A Total	Density Area Population	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 5 Proposed Zoning and Development Agat - Santa Rita	Zoning - R-1 - R-2 - C - PUD - M - A - Limited Access - Areas - Total	Proposed Density Total Area Net Area Population	7
Table 6 Agat - Santa Rita Study Projected Zoning, Densities and Population by sub - Areas	Sub Area - A thru D	Projected Zoning Area, (Acres) Public Reservation - Area, (Acres) Net Area (Acres) Maximum Density, Persons/Per Acre Maximum Population Projected Density, Persons/Per Acre Projected Population	5
Table 7 Economic Growth Guam-Agat - Santa Rita; Statistical Abstract, Guam 1972 and 1973, Dpt. of Commerce	Assessed Valuation - Real Property - Buildings - Personal Income - Construction Volume	Thousands of Dollars - 1963 - 1973 (Above 2 categories are each broken down into:) - Guam - Agat	5
Table 8 Agat Treatment Plant Design and Operating Data	Type of Operations	Design Present	
Table 9 Agat Treatment Plant Operating Characteristics Jan. 1, 1974 thru June 30, 1974	Parameter	No. of Tests Influent Effluent (Above 2 categories are each broken down into:) - High - Low - Average	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 10 Agat Treatment Plant Pump Control Sequence	Wetwell Elev. - 4.5 thru 8.0 in increments of .5	Flow GPM Lead Pump Follow Pump (Above 2 Categories are each broken down into:) - Rising Sewage - Falling Sewage	
Table 11 Comparison of Agat STP Versus Ten States Standards for the Contact Aeration Tank Retention	Agat-As Designed Ten States Standards Agat-As Constructed	Retention Lbs. BOD Day Lbs. BOD 1,000 CF MLSS/Lbs. BOD	
Table 12 Naval Station Treatment Plant Decision Data	Design Data	Phase I Phase II	
Table 13 Naval Station Treatment Plant Projected Raw Sewage Characteristics; Basis of Design and Design Analysis for the Sewerage of Naval Station Including Treatment; ASA, Inc. Sept. 1970	BOD SS Dissolved Oxygen Hydrogen Sulfide Nitrogen (Nitrates) Phosphorous Chlorides Temperature PH	Measurements	
Table 14 Water Consumption for Agat-Santa Rita December 1973 Through May 1974; PUAG Records	Month - December thru May Average	Flow MG Average Daily Flow MGD Per Capita GPD	
Table 15 Basis for Design Naval Station Line Items; P-150(A)	Naval Station - Resident Population - Apra Heights - Shift Workers, Visitors, etc. - Masdeleo Labor Camp - Seabee Camp - Polaris Point Area - Nav-Mag-Area Total Domestic Sewage Flow Total Industrial Future Design	Domestic Sewage - Persons - Contribution - Sewage Flow Industrial Sewage (NAVSTA) Peak Flow Calculations Future Design For Future Expansion Use	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 16 Bacteriological Testing at the Agat Treatment Plant; PUAG Test Results;	Date	Location Fecal Coliform/100 ml.	
Table 17 20-Year Average Daily and Maximum Design Flow Projections for the Agat and Naval Station Treatment Plants. (All Flows in MGD)	20-Year - At 100 GPCD Ultimate - At 100 GPCD - At 120 GPCD	Agat - ADF - Peak Military ADF - Civilian Naval Station - Total - Military Peak - Civilian - Total	8 1
Table 18 Future Peak Flows for the Naval Station Treatment Plant	20 Years Maximum Design at 100 GPCD (Navy and Civilian) Maximum Design at 100 GPCD (Navy) and 120 GPCD (Civilian) Summary of Peak Flows	Measurement of Peak Flows in MGD	
Table 19 Recommended Sewerage Improvements by Sub-Area	Sub-Area-A,B,C,D - Gravity Sewers - Force Mains - Pump Station - Sewage Treatment Plant Agat, Naval Station	Measurement of Flows	
Table 20 Construction Estimate	Item - Alternate 1 - Alternate 2 (Above 2 Categories are each broken down into:) - Gravity Sewers-8", 12", 21" - Manholes - Pump Station	Quantity Unit Unit Pr. Item Cost Total	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 21 Agat Sewage Treatment Plant Flow Summary	- Force Main-16", 12" - Miscellaneous - Contingency-10% - Admm. and Engr.-15%		
Table 22 Cost Summary by Sub-Area	Average Daily Flow Peak Sub Area - A thru D Total	20-Year at 100 GPCD Maximum Design - At 100 GPCD - At 120 CPCD Collection Treatment Total	
Exhibit 1 Study Area	Map Showing Project Limit		
Exhibit 2 Sub Areas with Proposed Zoning	Map Showing - Limited Access Areas - Military Areas - Sub-Area Boundary - Project Limit - Agricultural Zone - Commercial Zone - Industrial Zone - Planned Unit Development - Residential Zone Single Family and Multiple Family		1
Exhibit 3 Existing Zoning	Map Showing - Cross Slopes 30% or Greater - Project Limit - Agricultural Zone - Commercial Zone - Industrial Zone - Planned Unit Development - Residential Zone Single Family and Multiple Family - Drainage Basin Boundary - Sub Area Boundary		

Title/Date/Source	Row Labels	Column Headings	Notes
Exhibit 4 Existing Sewerage Systems	Map Showing - Treatment Plan - Sewerline - Project Limit - Force Main		
Exhibit 5 Future Sewerage Needs	Map Showing - Treatment Plant - Pump Station - Force Main - Sewer Line - Project Limit		
Existing and Proposed Sewerage Facilities	8 Segment Maps Showing - Existing Sewerline and Manhole - Existing Force Main - Sub-Area Boundaries - Project Limit - Proposed Sewerline - Proposed Force Main - Limited Access Areas		
Figure 1 Population Projections; Graph Showing Guam Less Military, Guam Military, Total, Agat-Santa Civilian	Population in Thousands - 0 thru 50 in increments of 10 - 100 thru 300 in in- crements of 50	Year - 1960 thru 2020 in increments of 10 Years	
Figure 2 Waste Water Flow Pro- jection Graph Showing Average Daily Flow (Civilian) For Study Area	Projected Sewage Flow- M.G.D. - 0 thru 7	Year - 1970 thru 2020 in increments of 10 Years	
Figure 3 Annual Precipitation and Temperature; Graph Show- ing Annual Average	Temperature -°F - 78 thru 81 Precipitation - INS - 0 thru 15	Month - Jan. thru Dec.	
Figure 4 Precipitation at Fena Reservoir Versus Waste Water Flow at Agat	Daily Rainfall-INS Q-M.G.D. - 0 thru 20 in in- crements of 5	January, 1974 - 1 thru 31st February, 1974 - 1 thru 28 March, 1974 - 1 thru 31st	

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 5 Agat Plant Site	Property Map Showing Lot Reserved - For Parking - Police and Fire Station - 443 Part 1-2, 1-3 Areas		
Figure 6 Agat Sewage Treatment Plant Subsurface Soil Conditions	Figure Showing - Boring No-AG-1 thru AG-4 - Sludge Drying Beds - Treatment Tank - Future Tank - Pumping Station		
Figure 7 Agat Sewage Treatment Plant Hydraulic Profile and Flow Diagram	Elevation 10.00 thru 20.00 in increments of 5.00	Design Informations	
Figure 8 Naval Station Sewage Treatment Plan Hydraulic Profile; Figure Showing 2 Phases	Water Surface Elevations 22 thru 15.00 in Decre- ments of 5	Design Flows	
Figure 9 Naval Station - Diurnal Flow (Graph Showing Apra Harbor Flows)	Flow Ratio	Time, Hours	
Figure 10 D ₁ -Initial Dilution Factor. Figure Showing Curves of SO ₂ Solution	Dilution Factor	Depth above Outlet Diam. of Jet Outlet	
Figure 11 D ₂ - Transport Dilution Factor	Distance From Diffuser, X, Feet Velocity, VX, F p.m.	Dilution Factor, D ₂ Diffuser Length	

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 12 D ₃ -Die-off Dilution Factor	Distance From Diffuser, X, Feet Velocity, VX, F p.m.	Dilution Factor, D ₃ Tgo-Time, Hrs.	
Figure 13 Sub-Area Population Projections, Figure Showing the Population of Each Sub-Areas	Population X10 ³	Year - 1970 thru 2020 in increments of 10 Years	
NOTES:			
6 - Populations for 1980 were obtained as follows: Civilian Populations projected at the rate of 4.41 percent per year. Military populations projected at the rate of 500 persons per year.			
7 - Planned Unit developments have no set densities.			
8 - ADF = Average Daily Flow.			

Title: Improvements to the Asan-Piti Sewerage System Pre-Design Study - 1973

Source Agency: Metcalf and Eddy, Inc.

Computerized: No Computer Reference:

General Information: PUT 16

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Population Totals Table 1 - Piti Table 2 - Asan (Above 2 tables have the same row labels and column headings)	Source of Information	Actual Count Estimated Projected (Above 3 categories are each broken down into:) - Population - Year	6
Population Densities Table 3 - Piti Table 4 - Asan (Above 2 tables have the same row labels and column headings)	Source of Information	Actual Count Estimated Projected (Above 3 categories are each broken down into:) - Density - Year	6
Estimated Ultimate Population of: Table 5 - Piti Drainage Area Table 6 - Asan Drainage Area (Above 2 tables have the same row labels and column headings)	Parcel Number	Present Zoning Area in Acres Population Density (estimated) Estimated Total Population	
Estimated Population by Year 1975: Table 7 - Piti Drainage Area Table 8 - Asan Drainage Area (Above 2 tables have the same row labels and column headings)	Parcel Number	Present Zoning Area in Acres Population Density (estimated) Estimated Total Population	

Title/Date/Source	Row Labels	Column Headings	Notes
Asan-Piti Sewage Design Flows Based on: Table 9 - 80 Gallons per Capita per Day (GCD) Table 10 - 100 Gallons per Capita per Day (GCD) Above 2 tables have the same row labels and column headings)	Location of Sewer - Village - Piti - Asan - Station or Limits - from - to	Population Area (Acres) Average Domestic Flow, Gallons per Day (GPD) Average Commercial or Industrial Flow, GPD (Above 4 categories are each broken down into:) - Change - Total Peak Factor Peak Dry Weather Flow, GPD Infiltration GPD Design Flow - Million Gallons per Day (MGD) - Cubic Feet per Second (CFS) Sewer Size in Inches Slope, Minimum Capacity (CFS) Velocity Full, Feet per Second	
Table 11 Asan-Piti Design Flows 1980; Based on Mande estimations, Nov. 1966	Location of Sewer - Street - Station or Limits - from - to	Dwelling Number Population Area (Acres) Average Domestic Flow, GPD Average Commercial or Industrial Flow, GPD (Above 4 categories are each broken down into:) - Change - Total Peak Factor Peak Dry Weather Flow Infiltration Peak GPD Design Flow - GPD - CFS Sewer Size Inches Slope, Minimum Capacity, CFS Velocity Full Feet per Second	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 12 Estimated 1975 Design Flows Asan-Piti Inter- ceptor Sewer	Location of Sewer - Village - Station or Limits - from - to	Population Area (Acres) Average Flow (GPD) (Above 3 categories are each broken down into:) - Change - Total Peak Factor Peak Dry Weather Flow, GPD Infiltration Peak GPD Metcalf and Eddy Design Flow - 1975 - 1980 (Above 2 categories are each broken down into:) - MGD - CFS	
Table 20 Asan-Piti Population Projection	Area (Square Feet)	Public Reservation Area (Square Feet) Area (Square Feet) Acres Persons per Acre Population	5 7
Figure 1 Sewerage Districts	Map of Guam Showing - Project Study Area		
Figures 2, 3, 4 and 5 Plan of Proposed Asan- Piti Sewer Interceptor System	4 Maps of the Asan-Piti Sewer Showing - Existing Sewer - Existing Force Main - Proposed Sewer - Proposed Force Main		
Figure 6 Zoning Map of Asan-Piti Project Study Area Showing: Acreages; Population; Population Densities	Map of Asan-Piti Project Study Area Showing - Zones - Agricultural Zone - One Family Dwelling Zone - Multi Family Dwelling Zone - Commercial Zone - Heavy Industrial Zone - Number of Acres - Capita Per Acre - Total Capita		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 7 Proposed Rezoning Map for Asan-Piti Area	Rezoning Map of Asan- Piti Area Showing: - Civilian Area - Naval Reservation - Proposed National Park - Major Road - River		
NOTES: Notes 1 thru 5 are standard notes, refer to Introduction. - Source of Information: U.S. Census; Metcalf and Eddy Report; Dept. of Public Health Integrated Wastewater System; Metcalf and Eddy Pre-Design Study Agana STP. - Civilian land serviceable by the proposed sewer link.			

Title: Sewerage Study for the Tumon-Tamuning Areas Guam, M.I.

Source Agency: Austin Smith & Associates, Inc.

Computerized: No Computer Reference:

General Information: PUT 17

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
4.1.3. Ultimate Development Forecast	Development - Hotels - Apartments - Restaurants - Shops - Beach	Number of Units Persons/Unit or Other Units Population Total Average Flow MGD	
5. Construction Cost Estimate	Description - Total Construction Cost Estimate	Unit Price Estimated Cost	
5.1 Tumon (Interim)			
5.2 Tamuning			
5.3 Harmon Field-Socio			
5.4 Dededo-Agana Trunk Sewer			
(Above 4 tables have the row labels and column headings)			
Exhibit A General Project	Map of Guam Showing - U.S. Air Force Property - U.S. Navy Property - FAA Property - Gov't. of Guam		
Exhibit B Project Areas	Map Showing - Tumon Area - Tamuning Area - Dededo-Agana Trunk Sewer - Dededo - Harmon Field-Socio Area		
Exhibit C There is a list of Design Criteria.			
Exhibit D Diagram for Solution of Kutter's Formula for Vitrified Clay Pipe Flowing Full	Discharge in million gallons per day Discharge in cu. ft. per second	Fall in Feet per Foot of Trench	

Title/Date/Source	Row Labels	Column Headings	Notes
Exhibit 1A Tumon Location	Discharge in feet per second		
Exhibit 1B Interim Development Forecast	Map Showing the hotels and apartments in Tumon area		
Exhibit 1C Improvement Plan	Tumon West Tumon North Tumon East (above 3 categories are each broken down into:) - Names of Hotels - Totals Grant Totals	Status Number of Units Population Approximate Area Units/Acre Pop./Acre Peak Flow Rate	
Exhibit 1D Visitor Information Graphs	Map Showing - Extension of Tumon Pumping Station - New 10" F.M. - New 15" ACP - New 18" ACP		
Exhibit 1E Flow of Peak Discharge	Graph Showing - Visitor Arrivals - 200,000 thru 1,000,000 in increments of 200,000	Actual Projected G.V.B. Projected at Highest Rate	
Exhibit 2A Tamuning Sub-Areas	Facility or Source - Continental & Dai-Ichi (flow measurement) - Fujita Tumon Beach (flow measurement) - Estimated Flow (Hotel) - Estimated Flow (Apts) - WPCF Manual No. 9 - Houston/Texas - Grand Rapids/Mich. - Hagerstown/Md. - Las Vegas/Nev. - Santa Monica/Calif. - Fixture Unit Method	No. of Rms/Units Peak Discharge GPM Ratio GPM/RM or Unit	
	Detail Map Showing Tamuning and Tumon Areas		

Title/Date/Source	Row Labels	Column Headings	Notes
Exhibit 2B Tamuning Ultimate Development Forecast	Areas Totals	Acres Percent Tot. Area Zoning Population Sewage Contribution MGD (Average)	
Exhibit 2C Sewer Line Design Infor- mation (1975). Line: Ypao-Fahrenheit-Camp Watkins Road (Ultimate)	From - Ypao - Fahrenheit Ave. - Fa./C.W. Rd. Inters. - Ypao Hosp. Rd. Sewer To - Fahrenheit Ave. - Camp Watkins Rd. - Ypao Hosp. Rd. Sewer - Marine Drive	Contr. Area Population Ave. Flow MGD Cumul. Ave. MGD Peak Flow MGD Exist. Capacity Approx. Slope Minimum Line Size Velocity Ave. Remarks	
Exhibit 2D Tamuning Sewerage Improve- ments Plan	Map Showing the Sewerage Improvements in Tamuning		
Exhibit 3A Harmon-Socio Location	Map Showing the proposed Harmon Field-Socio Relief Sewer		
Exhibit 3B Harmon Field-Socio, Ultimate Development Forecast	Areas Totals	Acres Percent Tot. Area Zoning Population Sewage Contribution MGD (Average) Remarks	
Exhibit 3C Sewer Line Design Information. Line: Harmon Field-Socio Sewer (1975)	From - A thru F To - B thru G	Contr. Area Population Ave. Flow MGD Cumul. Ave. MGD Peak Flow MGD Exist. Capacity Approx. Slope Minimum Line Size Velocity Ave. Remarks	

Title/Date/Source	Row Labels	Column Headings	Notes
Exhibit 3D Sewer Design Information (Ultimate) Line: Harmon Field-Socio Sewer (Ultimate) The above 2 tables have the same row labels and column headings)			
Exhibit 3E Harmon-Socio Sewer Ultimate Improvements	Map Showing - New Harmon Field-Socio Relief Sewer - Existing Dededo-Agana Trunk Sewer		
Exhibit 4A Dededo-Agana Trunk Sewer Areas	Map Showing - Existing Dededo-Agana Trunk Sewer - Mamajano Pumping Station - Existing Force Main - Tumon Pumping Station - Agana Main Pumping Station		
Exhibit 4B Dededo-Agana Trunk Sewer Ultimate Development Forecast	Areas Totals	Acres Percent Tot. Area Zoning Population Sewage Contribution MGD (Average) Remarks	
Exhibit 4C Sewer Line Design Infor- mation. Line: Dededo- Agana Trunk Sewer (Ultimate)	From - 1 thru 7 To - 2 thru 8	Contr. Area Population Ave. Flow MGD Cumul. Ave. MGD Peak Flow MGD	
Exhibit 4D Sewer Design Information Line: Dededo-Agana Trunk Sewer (1975) The above 2 tables have the same column headings and row labels)	Peak Flow MGD	Exist Capacity Approximate Slope Minimum Line Size Velocity Ave. Remarks	
Exhibit 4E Chemical Analysis	List of Chemicals	1. 2nd Manual Camp Watkins 2. 90 feet from Bayshore Marine Drive 3. Intersection at Rt. 8 4. Between Rt. 4 and Pumping Station Marine Drive	

Title: Sewage Flow Analysis of the Southern Interceptor Link

Source Agency: Arizala Costiniano Torress - August, 1972

Computerized: No Computer Reference: _____

General Information: PUT 17

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Exhibits D, E, F Population Estimates	Area - A - B - East - West - C thru F Total Estimated Population	Zoning Acreage Population Per Acre Population	
Exhibits D, E, F Sewage Flow Estimates	Average Sewage Flow Peak Flow Peak Flow at Marbo Base Command Peak Flow at Point of Connection at Dededo (excluding, infiltration)	Million Gallons Per Day	

Title: A Plan for an Integrated Wastewater System

Source Agency: Department of Public Health and Social Services

Computerized: No Computer Reference: _____

General Information: PUT 17

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 4 Northern District Sewage Flows	Government of Guam Navy Federal Aviation Administration Air Force (Andersen Air Force Base, Marbo) Northwest Field	Measurement of Sewage Flows in MGD	
Appendix D Sewage Treatment Works Construction per Capita Cost (Total Plant, Interceptors and Outfalls) (1968 Dollars); Based Upon the Design and Actual Cost Information of Sewage Treatment Projects Constructed Under Public Law 84-660	Design Population - 1 thru 999 - 1,000 thru 9,999 in increments of 4,999 - 10,000 thru 24,999 - 25,000 thru 49,999 - 50,000 thru 99,999 - 100,000 and up	Size of Plant MGD Primary Types of Treat- ment	6
Appendix F Flow and Capacities of Various Points in the Central System on June 10, 1969	Location - Outfall in Agana - Marine Drive Trunk in front of Town House - Tamuning Trunk - Dededo Trunk - Sinajana Trunk - NAS Line	Capacity MGD Present Flow MGD	5
Appendix G Sewage Flows from the Naval Facilities Flow in MGD (Average)	Naval Station Naval Magazine Nimitz Hill Naval Hospital (Adelup) Naval Hospital (Asan Annex) Naval Hospital (Agana) Naval Station Agana Naval Communications Stations Finegayan Naval Communications Station Barrigada Polaris Point		

PUT Detail 23

Title/Date/Source	Row Labels	Column Headings	Notes
Appendix H Estimated Capacity of Contribution to, and Cost of Integrated System in Northern District	Item - Phase I - Outfall - Treatment Plant - Force Main - Pumping - Interceptors - Phase II - Treatment Plant - Pumping - Interceptors - Phase III - Interceptors - Phase IV - Treatment Plant - Pumping - Interceptors Total Phases	Contribution (MGD) - From - Government of Guam - Navy - FAA - Air Force - N.W. Field Total Capacity (MGD) Total Cost (Million \$)	1

NOTES:

Notes 1 thru 5 are standard notes, refer to Introduction.

6 - Construction per capita cost does not include land costs.

Title: Guam Master Plan Study: Infrastructure - Sewer

Source Agency: Greenleaf/Telesca - Ahn

Computerized: No Computer Reference:

General Information: PUT 17

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Civilian Population Projection 1970-1990	Municipalities - 19 Municipalities Total	Years - 1970 thru 1990 in increments of 5 Years	
Central Waste Water System Stage I - Construction Cost Estimate	List of Items Total	Construction Cost Contingencies and Admin. 17% Budget Cost	
Central Waste Water System Stage II - Construction Cost Estimate			
Central Waste Water System Stage III - Construction Cost Estimate			
Outlying Districts Waste Water Systems Stage III - Construction Cost Estimate			
(Above 4 tables have the same row labels and column headings)			
Central Waste Water System Annual Operating and Maintenance Costs	List of Items Total	Labor Power Maintenance and Supplies Chlorine Total	

Title/Date/Source	Row Labels	Column Headings	Notes
Outlying Districts Annual Operating and Maintenance Costs	District - Agat-Santa Rita - Inarajan - Mangilao - Merizo - Talofofo - Umatac - Yigo - Yona Total	Labor Power Maintenance and Supplies Chlorine Administration Sewers Total	

Title: Sewerage and Sewage Disposal Facilities Engineering Report

Source Agency: Metcalf and Eddy for Bureau of Yards and Docks, U.S. Navy - Volumes I & II

Computerized: No Computer Reference: _____

General Information: PUT 17

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Volume I			
Table 1 Rainfall and Tide Data During Sewage Flow Tests	Date - Aug. 12 '64 thru Aug. 21 '64	Inches of Rainfall Tide (MLLW Datum) - Time/height (ft.) of high tide - Time/height (ft.) of low tide	
Table 2 Population Projections by Election District 1965 and 1980	Election District - 19 Election Districts Totals	1965 Population 1980 Population Population Rank	5
Table 3 Computed Population Densities in Proposed Sewered Areas	Area - Central District - Agana - Agana Heights - Asan - Barrigada - Chalan Pago/Ordot - Mongmong/Toto - Piti - Sinajana - Tamuning Outside Areas - Agat - Inarajan - Mangilao - Merizo - Santa Rita - Talofofo - Umatac - Yona - Yigo	Present Variation Density - Persons per Acre - Predicted Average 1965 - Predicted Average 1980	
Table 4 Average Residential Water Consumption	Area Civilian Areas - Agana - Agana Heights - Agat-Piti-Santa Rita	Water Consumption Gallons per Capita Per Day	1

Title/Date/Source	Row Labels	Column Headings	Notes
	- Asan-Maina - Barrigada - Dededo - Maite-Mongmong - Sinajana - Talofotofo-Yona - Tamuning - Military Areas - Apra Heights - Tipalao - Capehart		
Table 5 Unit Rates of Average Domestic Sewage Flow	Location	Gallons per Capita per Day	
	- All Military Areas - All Civilian Communities		
Table 6 Unit Rates of Average Sewage Flow from Commercial and Light Industrial Areas	Source	Gallons per Acre per Day	
	- Commercial Areas - Light Industrial Areas		
Table 7 Minimum Sewer Invert Slopes	Pipe Diameter (inches)	Minimum Invert Slope	
	- 6 thru 12 in increments of 2 inches - 15 thru 24 in increments of 3 inches - 24 and over		
Table 8 Normal Efficiency of Sewage Treatment Processes and Dilution Requirements (Coliform Bacteria)	List of Treatment and Removal	Coliform - No./ml	
		- No. of disinfection - Chlorine disinfection	
		Required Dilution for Outfall to provide 10 Col/Ml.	
		- No. Cl₂ - Cl₂	
Table 9 Sewage Characteristics	Item	Usual Range	
	- Temperature - pH - Total Suspended Solids - Volatile Suspended Solids - Fixed Suspended Solids - Settleable Solids - 5-day 20°C BOD - Chlorides - Grease	- Agana Pump Station No. 1 - Agana Pump Station No. 2 - Agat Pump Station	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 10 Receiving Water Quality	Location	Total	
	- List of Areas tested by Government of Guam - List of Areas tested by Metcalf and Eddy tests	- Number of Test Samples - Total indicating pollution - Total with MPN in excess of 1000/100 ml	
Table 11 Estimated Annual Operating and Maintenance Costs-Recommended Plan	List of Items	Type	
		- Labor - Power - Maintenance and Supplies - Chlorine - Total	
Table 12 Cost Summary of Agana Pump Station No. 2 Alternates	Plan	Estimated Capital Cost	
	- Report plan (includes Adelup Station flows, Asan and Piti) - Agana and Adelup station flows only (assumes separate treatment for Asan-Piti) - Agana area only	- Modify existing system - Replace with Gravity Interceptors	
Table 13 Central District Outfall Dilution Factors	Distance from shore (ft.)	Total dilution factor	
	- 2,400 - 2,500 - 2,700 - 3,000 - 3,100 - 3,200		
Table 14 Comparative Cost with Various Degrees of Treatment	Degree of Treatment	Add. Increment of Treatment Cost (2)	
	- Secondary Treatment - Primary Treatment - Comminution or Coarse Screens	- Add. Increment of Outfall Cost (3) (2)+(3) converted to Annual Cost (4) - Estimated Annual Chlorine Cost (5) - Comparative Annual Costs (4)+(5)	
Table 15 Comparison of Asan-Piti System Alternates	Plan	Pump Stations Capital Costs	
	- Proposed Connection to Central District - Separate Treatment Plant near Asan Point	- Treatment works and outfall - Interceptor and Force Main	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 16 Joint Use of Sewerage Facilities in Agana Area Cost Comparison	- Joint Treatment Plant with Nav. Hosp. and ComMar at Adelup Point	Total	
	Item	Cost with Joint Use Gov't. of Guam Cost with Separate Facilities	8
	- Stage 1		
	- Total		
	- Stage 2	Navy cost with equal separate Facilities	
	- Total		
	Combined Total Stage 1 and 2		
Table 17 Summary of Cost Estimates and Order of Construction Central Sewerage District Stage 1	Items	Est. Const. Costs Contr. and Admin. 17% Est. Budget Costs Cumulative Budget Costs	9
Table 18 Summary of Cost Estimates and Order of Construction Central Sewerage District Stage II			
Table 19 Summary of Cost Estimates and Order of Construction Central Sewerage District Stage III			
(The above 3 tables have the same row labels and column headings)			
Table 19A Estimated Population Served by Stage I and Stage II Construction	Election District - Civilian - Agana - Agana Heights - Asan - Barrigada - Dededo - Mongmong - Piti - Sinajana - Tamuning - Tumon - Yona	Present (1965) Population Served - Stage I - Stage II Total	

Title/Date/Source	Row Labels	Column Headings	Notes
	- Military - Naval Hospital - Naval Hospital Housing - Naval Air Station - ComMar Total		
Initial Turbulent Jet Diffusion	Graph Showing - Y/D	1 thru 100	
Figure 1 Definition Sketch - Ocean Outfall	Profile Diagram showing ocean outfall		
Table B1 Results of Oceanographic Survey for Agana Outfall	Distance from Center Line Marine Drive, ft Time Duration of Observation, Minutes Drift, ft./min. Temperature-°F Bottom	Along line of existing Agana Outfall, October 3, 1964 Along line of proposed Outfall off Marine Drive at 5th Street, October 4, 1964 Along line of existing Outfall at Adelup Point, October 10, 1964 Above 3 are each broken down into - Depth ft. - 50 thru 200 in increments of 50 ft.	
Figure 1 Proposed Construction, Stage I and Stage II	Map Showing - Stage 1 Construction - Stage 2 Construction - Military Areas tributary to Gov't. of Guam System		1
Figure 2 Plan, Central and North Central Areas	Map Showing - Reef Line - Normal Direction of Surface Current - Gov't. of Guam Lands - Other Military Areas - Numbered Highway Routes - Other Roads or Streets - Natural Channels - Election District Boundary - Gravity Sewer		1

Title/Date/Source	Row Labels	Column Headings	Notes
	- Force Main - Existing Gravity Sewer to be Utilized - Limits of 1980 Sewer Service Area - Military Areas Tributary to Central Sewage System		
Figure 3 Plan, Southern Areas (The above 2 tables have the same row labels)			
Figure 4 Areas of High Water Table and Limestone Formation	Map of Guam Showing - Areas of Groundwater Infiltration and Water Handling During Construction - Areas where rock (limestone) lies just below ground surface		
Figure 5 Sewage Flow Measurement; Agana Pump Station No. 1 (Graph showing Aug. 12, 1964 (Wed.); Aug. 19-20, 1964 (Wed.-Thurs.), Aug. 20-21, 1964 (Thurs.-Fri.))	Rate of Flow in MGD - 0 thru 1.1	Hours of the Day - 17 thru 24 - 1 thru 9	10
Figure 6 Sewage Flow Measurement; Agana Pump Station No. 2 (Graph showing Aug. 13-14, 1964 (Thurs.-Fri.))	Rate of Flow in MGD - 0.0 thru 0.2	Hours of the Day - 8 thru 24	10
Figure 7 Sewage Flow Measurement; Agat Pump Station (Graph showing Sept. 22, 1964 (Tues.) and Sept. 23, 1964 (Wed.))	Rate of Flow in MGD - 0.0 thru 0.3	Hours of the Day - 12 thru 22	
Figure 8 Guam Population (Graph showing U.S. Census - includes Military and Dependents; Population	Population in Thousands - 0 thru 100 in increments of 20	Year - 1900 thru 2000 in increments of 20 years	

Title/Date/Source	Row Labels	Column Headings	Notes
Forecast Predicted by Dept. of Land Management March 27, 1962; Municipal Commissioners Census of Active Population, April 1964 and Estimated Total Active Population, including Military and Dependents.			
Figure 9 Sewage Flow Factor, Maximum and Minimum Flows for Residential Areas	Ratio - Min. or Max. to Average Daily Sewage Flow	Population in Thousands	10
Figure 10 Predicted 1980 Population Distribution Connected to Central Sewage Treatment Plant	Figure Showing Population Percent in Different Districts - Agana 5.9% - Asan 4.7% - Piti 3.9% - Military - NAS 7.3% - ComMar 3.2% - Navy Hosp. 2.9% - Navy Hosp. Housing 0.6% - Toto 2% - Mongmong 5.7% - Barrigada 9.9% - Agana Hts. 8.0% - Sinajana 11.2% - Tamuning 22.1% - Tumon 1.6% - Dededo 11.0%		1
Figure 11 Trunk Sewer Profiles and Plan	Map Showing - Marine Drive Trunk - Tamuning Trunk - Tumon-Dededo Extension - NAS-Barrigada Trunk - Route 4 Trunk - Circuit Trunk - Yona Trunk		
Figure 12 Legend for Drawings	Figure Showing Plans and Profiles		
Figure 13 Map, Agana-Barrigada	Map Showing the Different Districts and Sewerage Systems		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 14 Plan, Tamuning-Tumon-Dededo			
Figure 15 Plan, Piti-Asan			
Figure 16 Plan, Yona			
(The above 4 tables have the same row labels)			
Figure 17 Trunk Sewer Profile, Marine Drive - Piti to Tumon Loop Road	Elevation in Feet Above MLLW - 10 thru 80 in increments of 10	Stations	
Figure 18 Trunk Sewer Profile, Route 4			
Figure 19 Trunk Sewer Profile, Agana Heights-Sinajana			
Figure 20 Trunk Sewer Profile, Barrigada-NAS			
Figure 21 Trunk Sewer Profile, Tamuning Area			
Figure 22 Trunk Sewer Profile, Tumon-Dededo Extension			
Figure 23 Trunk Sewer Profile, Yona			
(The above 7 Figures have the same row labels)			

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 24 Sewage Treatment Plant Layout - Flow Diagram	Chart Showing - Treatment Plant Layout - Flow Diagram		
Figure 25 Medium Pumping Station Typical	Basement Floor Plan First Floor Plan Section Plot Plan		
Figure 26 Outfall Sewer Details	Diffuser Section Typical Trench Section Section A-A		
Figure 27 Agana Outfall Profile Graph Showing Outfall	Elevation in ft.	Distance in ft.	
Figure 28 Sewer Details - 1	Diagrams Showing - Sectional Plan A-A - Typical Manhole Construction - Typical Drop Inlet - Shallow Drop Inlet - Precast Concrete Manhole - Concrete Masonry Manhole - Shallow Manhole - Sewer Chimney		
Figure 29 Sewer Details - 2	Diagrams Showing - Sewer Pipe Section in Earth - Sewer and Force Main in Earth - Sewer Pipe Section in Rock - Sewer and Force Main in Rock		
Figure 30 Order of Construction, Agana-Barrigada	Maps Showing the Order of Construction - First Stage - First Stage Design - Second Stage - Third Stage		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 31 Order of Construction, Tamuning-Tumon-Dededo (Above 2 tables have the same row labels)			
Figure 32 Order of Construction, Piti-Asan	Map Showing - Second Stage - Third Stage		
Figure 33 Order of Construction, Yona	Map Showing - Second Stage		
Appendix D Boring Data			
Appendix D ₁ USW Sew. Report Guam Proposed Treatment Plant	Chart of Proposed Treatment Plant Location Showing - Number and Location of Test Boring (#1 thru #9)		
Appendix D ₂ -D ₉ Field Boring Data for the Agana Sewage Treatment Plant. Boring Log 1 thru 9	Each Boring Chart Explains the Following - Description of Material at 0 to 64 feet - Bar Graph Showing Blows per foot: - 0 to 200+ blows - 0 to 64 foot depth		
Volume II			
Table II-1 Outside Areas Proposed Sewage Treatment Plants Summary Description	District - Agat - Santa Rita - Inarajan - Mangilao - Merizo - Talofofo - Umatac - Yigo	Design Population 1980 Design Average Flow 1980, MGD Sewage Treatment - Preliminary - Primary - Secondary Effluent Disposal	

Title/Date/Source	Row Labels	Column Headings	Notes
Table II-2 Supplying Villages Estimated Capital Costs Summary	District Total	Estimated Construction Cost (\$1,000) Contingencies and Administration 17% (\$1,000) Total Capital Costs (\$1,000)	6
Table II-3 Supplying Villages Estimated Annual Operating Maintenance Costs Summary	District Total	Labor Power Maintenance and Supplies Chlorine Administration Sewers Total	6
Table II-4 thru Table II-11 Detailed Estimates of Cost for Each District - Agat-Santa Rita; Ordot; Inarajan; Mangilao; Merizo; Talofofo; Umatac; Yigo	Description	Unit Estimated Quantity Engineering Unit Cost Estimate Cost Contingencies 10% Administration 7% Budget Estimate Cost	6 7
Appendix II-A Figure II-1, II-3, II-5, II-7, II-9, II-11, II-13, II-15 Sewage Study for each District	Map Showing the Location of the Sewers of each District		6
Figure II-2, II-4, II-6, II-8, II-10, II-12, II-14, II-16 Sewage Study Trunk Lines for each District	Elevation in feet above MLLW	Stations	6
Notes: Notes 1 thru 5 are standard notes, refer to Introduction. Districts Agat-Santa Rita; Ordot; Inarajan; Mangilao; Merizo, Talofofo; Umatac; Yigo. Estimates based on ENR Index of 1200. Budget estimate costs do not include engineering design fees. Includes 17% for contingencies and administration.			

- 9 - Costs are based on the use of materials manufactured in the U.S.
- 10 - Graph shows maximum, minimum and average flows.

Type of Information: GPA Billing System Master Record

Connected With:
Published Report
Survey
Form

Title: GPA Master Record Layout

Data Available: On Cards

On Disk

Number of Records in File: 25,000 (varies)

General Information: PUT 5

Detail Information: PUT 6

	80 Col
	96 Col

	5444
	5445
	2311
	3311

FILE FORMAT

Positions	Contents	Notes
	For Information and Explanation of Items, See PUT Detail	
1 - 9	Account Number	
11	Service Code (Residential, General Service, Government)	
12 - 38	Customer Name	
39 - 56	First Line Address	
57 - 74	Second Line Address	
75 - 77	Zip Code	
78 - 81	Deposit Reference Number (receipt number of general ledger)	
82 - 85	Deposit Date	
86 - 89	Deposit Amount	
90 - 93	Change Out Consumption (if meter changed, consumption on old meter)	
94	Division Code (for government accounts)	
95	Special Instruction Code	
96	Meter Location Code (on property)	
97 - 101	Meter Number	
102	Number of Dials on Meter	
103 - 105	Reading Sequence (within meter book)	
107 - 109	1st Previous Consumption	
111 - 113	2nd Previous Consumption	
115 - 117	3rd Previous Consumption	
118 - 121	Highest Consumption	
122 - 125	Lowest Consumption	
126 - 128	Previous Reading	
129 - 131	Present Reading	
132	Estimation Code (yes or no)	
133 - 136	Service Period Beginning Date	
137 - 140	Service Period Ending Date	
141 - 144	KW Demand Reading	

POSITIONSCONTENTSNOTES

145 - 147	Multiplier
148 - 150	Number of Street Lights
151 - 154	Street Light Consumption
155 - 158	Street Light Amount (\$)
159 - 163	30-Day Arrears (\$)
164 - 168	60-Day Arrears (\$)
169 - 173	90-Day Arrears (\$)
174 - 178	Overpay Credit Amount (\$)
179 - 183	Debit (Applied) Amount (\$)
184 - 188	KWH Amount (\$)
189 - 193	KW Demand Amount (\$)
194 - 197	Surcharge Amount (\$)
198 - 202	Fuel Adjustment Amount (\$)
203 - 207	Total Bill Amount (\$)
108 - 211	Termination Date
212	Account Status Code (terminated, transferred, retired)
213 - 216	Termination Contract Number
217 - 226	Transaction 1: Amount, Code, Date
227 - 236	Transaction 2: Amount, Code, Date
237 - 246	Transaction 3: Amount, Code, Date
247 - 256	Transaction 4: Amount, Code, Date
257 - 266	Transaction 5: Amount, Code, Date
267 - 270	Estimated KW Reading

Type of Information: GTA Customer Billing Records
 Connected With:
 Published Report

 Survey Form

Title: Accounts Receivable Master FileData Available: On CardsOn DiskNumber of Records in File: 22,000 (varies)General Information: PUT 7Detail Information:

	80 Col
	96 Col

X	5444
X	5445
	2311
	3311

FILE FORMAT

Positions			Contents	Notes
Field No.	Field Name	Field Length		
1	ACC	8	Account Number	
2	CLS	2	Class Code (Residential, Commercial)	
3	NAME	27	Subscriber (Customer) Name	
4	AD1	18	First Line Address	
5	AD2	18	Second Line Address	
6	CYC	1	Billing Cycle (Determined by Exchange Number)	
7	CRMO	7	Credit Memo (\$)	
8	TRF	7	Transfer Adjustment (To Another Active Account)	
9	TERM	7	Termination Transfer Amount (To Inactive Accounts Ledger if Terminated)	
10	NEW	1	New Account Code (Flag for Special Handling)	
11	STAT	1	Status Code (Active, Terminated, etc.)	
12	OPN	1	(Blank/Open)	
13	REG	7	Regular Monthly Bill	
14	VOUCH	6	Voucher Number (Bill Number)	
15	OPN	1	(Blank/Open)	
16	CUR	7	Current Monthly Bill	
17	D3	7	30-Day Arrears	
18	D6	7	90-Day Arrears	
19	D9	7	90-Day Arrears	
20	TAR	7	Total Arrears	
21	DUE	6	Date Due	
22	OPN	1	(Blank/Open)	
23	OPN	6	(Blank/Open)	
24	TOLL	7	Current Toll Charge (Total)	
25	CASH	7	Total Cash Payments (Since Last Bill)	

Field No.	Field No.	Field Length
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26	DLT	6	Date Last Transaction (See Also Field 36)
27	PROR	1	Proration Code (Play for Partial Service Period)
28	PAMT	7	Proration Amount
29	MISC	7	Miscellaneous Amount (Installation, Equipment, etc.)
30	CRED	9	Outstanding Credits
31	BAL	9	Outstanding Balance
32	SVCF	6	Service From Date
33	SVCT	6	Service to Date
34	DLB	6	Date of Last Bill
35	AMTLB	7	Amount of Last Bill
36	PTD	6	Date Last Transaction (See Also Field 26)
37	OPEN	6	Date Account Opened
38	CLOSE	6	Date Account Closed
39	ISO	6	Installation Service Order
40	DSO	6	Disconnection Service Order
41	OPN	27	(Blank/Open)
42	PUB	1	Public Code (Listed/Unlisted)
43	LINK	17	Inactive Linkage (Account Number where Transferred - see also field 9)
44	PBA	8	Previous Billing Account Number
45	OPN	1	(Blank/Open)

Type of Information: PUAG Customer Billing Records

Connected With:
Published Report
Survey Form.

Title: Accounts Receivable and Billing Record

Data Available: On Cards

On Disk

	80 Col
	96 Col

	5444
	5445
	2311
	3311

Number of Records in File: 19,200 (varies)

General Information: PUT 9

Detail Information:

FILE FORMAT

Positions	Contents	Notes
	Logical Record Size: 350 Bytes	
1 - 9	Account Number	
1 - 10	Class Code (i.e., R= residential, C = Commercial G = Government)	
1 - 11	Customer Name	
38 - 55	First Line Address	
56 - 73	Second Line Address	
(74 - 87)	(Master Codes)	
74	Account Status Code (A = active, I = inactive, T = termination, blank = new)	
75	Meter Size Code (based on diameter of pipe)	
76	Sewer Billing Code (S = standard rate, F = flat rate)	
77	Water Billing Code (S = standard rate, F = flat rate)	
78	Automatic Credit Code (N = no bill, credit due)	
79	Reading Exceptions Code (see list, below)	
80	Billing Code (internal PUAG use)	
81	Estimation/Average Code (1 = estimation, 9 = average or mean)	
82	Posting Code (internal PUAG use)	
83	Termination Code (T = termination)	
84	Disconnection Code (D = disconnection)	
85	Cuarantee Deposit Code (internal PUAG use)	
86	(Blank)	
87	(Blank)	
88 - 89	Area Code (for a group of books)	
90 - 91	Number of Meter Dials	
92 - 100	Meter Number	
(101 - 152)	(Water Billing Amounts)	
101 - 104	Other Miscellaneous Charges	
105 - 108	Water Charge	
109 - 112	Total Current Charge	
113 - 116	30-Day Arrears	
117 - 120	60-Day Arrears	

<u>POSITION</u>	<u>CONTENTS</u>	<u>NOTES</u>
294 - 299	Installation Service Order Number	
300	(Blank)	
301 - 305	Termination Service Order Number	
306 - 311	Disconnection Service Order Number	
312 - 315	\$ Flat Water Charge	
316 - 319	\$ Flat Sewer Charge	
320 - 350	(Blank)	

READING EXCEPTIONS CODES

A - Buried Meter
 B - Debris on Meter
 C - Foggy Meter
 D - Reversing Meter
 E - Vacant
 F - Cannot Locate Meter
 G - Direct Service Illegal
 H - Idamaged Meter
 I - Error in Reading
 J - Flooded Cannot Read
 K - Inlet Leak
 L - Outlet Leak
 M - Meter Leak
 N - Non Registering
 O - Possible Non-Registering
 P - Valve Leak
 Q - Damaged Valve
 R - Dirty Dials
 S - Capless Meter
 T - Danguilo Doggy
 U - Gate Locked
 V - Flooded by Mother Nature
 W - Possible Tampering
 X - Corr-RDN. Dial Turning
 Y - Obstruction
 Z - Illegal Connection Dig
 0 - Special Handling
 1 - Should be Transfered
 2 - Terminated Account
 3 - Removed Meter
 4 - Relocate Meter
 5 - Advise Consumer
 6 - Option Two
 7 - Option Three
 8 - Option Four

<u>POSITION</u>	<u>CONTENTS</u>	<u>NOTES</u>
121 - 124	90-Day Arrears	
125 - 128	Total Arrears	
129 - 132	Amount Last Billing	
133 - 136	Refund	
137 - 140	Transfer Adjustment (amount to new Account)	
141 - 144	Credit Memo (correction for erroneous reading or over-estimation)	
145 - 148	Payments Received	
149 - 152	Balance Due - Water	
(153 - 201)	(Sewer Billing Amounts)	
153 - 156	Other Miscellaneous Charges	
157 - 160	Sewer Charge	
161 - 164	Total Current Charge	
165 - 168	30-Day Arrears	
169 - 172	60-Day Arrears	
173 - 176	90-Day Arrears (and older)	
177 - 180	Total Arrears	
181 - 184	Amount Last Billing	
185 - 188	Refund	
189 - 192	Transfer Adjustment (amount to new account)	
193 - 196	Credit Memo (correction for erroneous reding or over-estimation)	
197 - 200	Payments Received	
201 - 204	Balance Due - Sewer	
(205 - 219)	(Current Month's Reading Data)	
205 - 209	Prscent Rcadng	
210 - 214	Previous Reading	
215 - 219	Consumption	
(220 - 234)	(Previous Month's Reading Data)	
220 - 224	Present Reading	
225 - 229	Previous Reading	
230 - 234	Consumption	
235 - 239	Mean (average) Consumption (used for estimating bill)	
240 - 242	\$ Credit Water	
243 - 245	\$ Credit Sewer	
246 - 249	\$ Credits Total	
250 - 253	\$ Reserve Guarantee Deposit	
(254 - 293)	Master Recording Dates (for <u>last</u> time occurred)	
254 - 255	Service Period "From" Date	
258 - 259	Service Period "To" Date	
262 - 263	Date	
266 - 269	Due Date	
270 - 273	Meter - Reading Date	
274 - 277	Payment Date	
278 - 281	Transaction Date	
282 - 285	Installation Date	
286 - 289	Termination Date	
290 - 293	Disconnection Date	

Title: Outdoor Recreation on Guam
Source Agency: Lawrence C. Johnsrud and Associates
Computerized: No Computer Reference: _____
General Information: REC 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Summary of Recreation Facility Needs	Facility - Beaches (In Lineal Feet and Acres) - Swimming Pools (In Pool Unit) - Picnic Units (In Units and Acres) - Camp Sites (In Sites and Acres) - Hiking Trails (In Miles) - Riding Trails (In Miles) - Hunting Areas - Shoreline (In Miles) - Boating Facilities (In Slips, Ramps and Acres) - Surfing Beach (In Acres and Lineal Feet) - Protected Water Area (In Acres) - Competitive Sports (In Acres) - Basketball (In Courts) - Volleyball (In Courts) - Baseball (In Fields) - Softball (In Fields) - Football (In Fields) - Tennis (In Courts) - Handball (In Fields and Courts) - Golf (Holes)	1966 Need Additional 1971 Need Additional 1985 Need Total 1966 thru 1985 Need	
Plate 2 Outdoor Recreation Plan	Map of Guam Showing - Village Recreation Centers - Swimming Beach		

Title/Date/Source	Row Labels	Column Headings	Notes
	- Surfing Beach - Small Boat Harbor - Campsites - Conservation - Scenic-History Feature - Scenic Highway - Trail - National Seashore Park - National Historic Park		
Plate 7 Population Projection 1966-1985	Graph Showing Population Growth Rate - 10,000 thru 70,000 in Increments of 10,000 - Chamorro - Military - Other	Year - 1965 thru 1985	1
Table 3 Interest in Outdoor Recreation Activities	Visiting Historic Sites Visiting Scenic Sites Swimming and Going to Beach Camping Picnics and Outings Hiking Participation in Competitive Sports Fishing Attending Outdoor Sports Horseback Riding Hunting Shelling Boating Skin Diving Surfing Water Skiing	Indigenous Residents Percent of Total Non-Indigenous Residents Percent of Total Military Percent of Total Weighted Guam Average Percent of Total U.S. Average Percent of Total	1
Table 4 Interest in Selected Special Activities	Attending Cockfights - Male - Female Beach Preference - River-lake Beach - Salt Water Beach Fishing Preference - Shoreline - Reef - Deep Sea - Fresh Water Golf	Indigenous Residents Percent of Interest Non-Indigenous Residents Percent of Interest Military Percent of Total	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 10 Participation by Type of Fishing	Type of Fishing - Deep Sea - Reef-off-shore - Shoreline - Freshwater	1966 1971 1985 (Above 3 Categories are each broken down into:) - Activity Rate - Sunday Participation	
Table 11 Distribution of Boating Activity	Boating Activity - Deep Sea Fishing - Reef/Off-Shore Fishing - Water Skiing - Skin Diving - General Boating	Persons Per Boat Activity Days Per Boat Typical Sunday Activity Days/Typical Sunday 1966 Number of Boats Required 1966	
Table 13 Summary of Facility Requirements	Facility - Beaches - Urban (In Acres and Linear Feet) - Remote (In Acres and Linear Feet) - Picnic Facilities (In Units and Acres) - Campsites (In Sites and Acres) - Hiking Trails (In Miles and Acres) - Horse Trails (In Miles and Acres) - Hunting Areas (In Acres) - Shoreline (In Miles) - Boating Facilities (In Slips, Ramps and Acres) - Surfing (In Linear Feet and Acres) - Protected Water Areas (In Acres) - Water Skiing - Skin Diving - Competitive Sports (In Acres) - Basketball (In Courts) - Volleyball (In Courts) - Baseball (In Fields) - Softball (In Fields) - Football (In Fields) - Tennis (In Courts) - Handball (In Courts) - Golf (In Courses)	1966 Requirements 1971 Requirements 1985 Requirements	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 14 Existing Government of Guam Recreation Facili- ties, 1966	Type of Recreation Facilities	Name and Location B.O.R. Class Primary Responsibility (Ownership) Facilities and Size Condition of Facilities and Remarks	1
Table 15 Existing Military Recrea- tion Facilities, 1966			
(The Above 3 Tables Have the Same Row Labels and Column Headings)			
Plate 8 Existing Recreation Facilities Government of Guam	Map of Guam Showing Existing Recreation Facilities		1
Plat 9 Existing Recreation Facilities Private and Church	- Basketball - Softball - Little League - Tennis - Football - Volleyball - Handball - Playground - Swimming Pool - Developed Beaches - Small Boat Harbor - Picnic Areas - Cock Pit - Outdoor Theatres - Golf Course		
Plate 10 Existing Recreation Facilities - Military			
(Above 3 Plates Have the Same Row Labels)			
Table 20 Potential Recreation Sites	Name and Location - Beaches and Marinas - Inland Water Areas - Scenic Overlooks - Scenic Highways - Scenic Trails - Cave Sites - Wilderness Areas - Historic Sites - Spanish - Historic Sites - American Regime - Historic Sites - World War II	Ownership B.O.R. Class Natural Beauty Potential Uses - Historic Site - Scenic Area - Swimming - Picnicking - Camping - Hiking or Riding - Native Study - Marina - Competitive Sports Over all Evaluation Remarks	6

Title/Date/Source	Row Labels	Column Headings	Notes
Table 22 Schedule of Site Acquisi- on and Development	Site and Location - Beaches and Marinas - Inland Water Area - Natural Areas - Scenic Areas - Scenic Highways - Village Recreation Centers - Historic Sites	Responsible Agency Priority Land Acquisition - Immediate Program Cost Long Range Program Priority Site Development - Immediate Program Cost Long Range Program	

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

- Potential recreation sites are rated 1, 2 or 3 in relation to their natural beauty and most favorable potential uses, with 1 being the most outstanding. Overall Evaluation is rated A, B or C.

Title: Volume II - Outdoor Recreation On Guam, Preliminary Report C, Demand for Outdoor Recreation
 Source Agency: Lawrence C. Johnsrud and Associates, John Carl Warnecke and Associates - Oct. 1966
 Computerized: No Computer Reference: _____
 General Information: REC 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Recreation Survey Data Tabulation (3 Tables - Non Indiginous Residents, Indiginous Residents, Military Residents)	Status - Single - Male - Ages 0-20 - Ages 21-40 - Ages Over 40 - Female - Ages 0-20 - Ages 21-40 - Ages Over 40 - Married - Male - Ages 0-20 - Ages 21-40 - Ages Over 40 - Female - Ages 0-20 - Ages 21-40 - Ages Over 40	Competitive Sports - Participation All Sports - Baseball - Softball - Basketball - Volleyball - Football - Handball - Golf - Tennis - Attendance at Ball-games - Attendance at Cock-fights Fishing-Hunting - Interest in Fishing - Shoreline - Offshore - Deep Sea - Fresh Water - All Types - Interest in Hunting Water Sports - Surfing - Owns Boat - Wants to Buy Boat - Possibly Buy or Rent Boat - Skindiving - Water Skiing - River-Lake Beach - Salt Water Beach - Both Types Beach Nature Activities - Shelling - Interest in Camping - Participation Hiking-Walking - Interest Hiking-Walking	

Title/Date/Source	Row Labels	Column Headings	Notes
		- Interest Horseback Riding - Picnics-Outings - Bring Own Food - Purchase Food - Visit Historic Sites - Visit Scenic Sites	

Title: Volume II - Outdoor Recreation on Guam, Preliminary Report C, Demand for Outdoor

Recreation

Source Agency: _____

Computerized: _____ Computer Reference: _____

General Information: _____

Information Contained on the Document

RECREATION QUESTIONNAIRE

Specify Answers to the Following Questions:

- 1a. Name
- b. Age
- 2a. Sex (Male, Female)
- b. Marital Status (Single, Married)
- 3a. How Many Children Do You Have on Guam?
- b. Age of Each Child.
4. Where Do You Live?
5. What is Your Occupation.
- 6a. Does Your Spouse Work?
- b. If Spouse is Working, What is His/Her Occupation?
7. How Long Have You Lived on Guam?
- 8a. Do You Participate in Any Sports?
- b. Name of Sport.
- c. Where Do You Play?
- d. How Often Do You Play?
- e. How Are the Facilities? (Excellent, Fair, Poor)
- f. How Could They be Improved?
9. What Sports Would You Enjoy if the Facilities Were Available?
- 10a. Do You Like to Fish?
- b. If Yes, Which Do You Prefer? (Shoreline Fishing, Offshore Fishing, Deep Sea Fishing)
- 11a. Do You Go Skindiving?
- b. If Yes, Where?
- 12a. Do You Go Shelling?
- b. If So, Where?

13. Do You Own a Boat?
14. If There Were Adequate Marina Facilities Available, Would You Purchase a Boat?
15. Would You be Interested in Going on Overnight Camping Trips if Adequate Facilities Were Provided?
16. Do You Go on Long Hikes or Walks?
17. Would You be Interested in Hiking if Trails were Provided for this Purpose in Wild, Natural Areas?
18. Are You Interested in Horseback Riding?
19. Do You like to go Hunting? (For Deer; Wild Pig; Fowl)
- 20a. Do You go on Picnics and Outings with Your Family and Friends?
- b. If Yes, Where Do You Usually Go?
21. Do You Prefer to Buy Foods if they are Available at Picnic Sites or Bring Your Own Food?
- 22a. Do You Think the Beach and Park Sites Could be Improved?
- b. If Yes, How?
23. If they Were Available, Which Would You Prefer, a River/Lake, Beach, a Salt Water Beach or an Island Park?
- 24a. Do You Attend Ball Games?
- b. If So, Where?
- 25a. Do You Attend Cockfights?
- b. If So, How Often?
- 26a. Do You Enjoy Visiting Historical Sites?
- b. Scenic Sites?
27. Additional Information, Recommendations or Comments.

Title: Outdoor Recreation on Guam - October 1, 1971

Source Agency: Department of Commerce and Land Management

Computerized: No Computer Reference: _____

General Information: REC 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Figure III Civilian Recreation Facilities Summary	Acres	Regional Utilization - Beach Frontage Feet - Shoreline Feet - Pavilion - Picnic Units - Bar-B-Q Pits - Water Points - Rest Rooms - Showers - Boat Ramps - Boat Slips Community Serving Facilities - Courts - Basketball - Volleyball - Tennis - Fields - Baseball - Softball - Football - Play Ground - Pools	
Figure IV Annual Demand by 1,000 Activity Days	List of Activities	Year - 1971 - 1975 thru 1990 in increments of 5	
Figure V Summary of Facility Requirements	List of Facilities	Year - 1971 - 1975 thru 1990 in increments of 5	

Title/Date/Source

Row Labels

Column Headings

Notes

Figure VI
Project Analysis

Priority
 - Year
 - FY1972 thru FY1976
 List of Projects

Action
 Plan
 Acreage
 Access
 Type
 Anticipated Funding
 - Local
 - Federal
 - Total

Figure VIII
 Recreation Areas
 Improvement Proposed
 for Fiscal Year 1973

Map of Guam Showing
 - Avenue of State Flags
 - Agana Beach Park
 - Saluglulla Swimming
 Pool-Inarajan
 - Tepungan Beach
 - Ypao Beach Park
 - Nimitz Beach
 - Inarajan Bay
 - Talai Acho-Agana
 - Plaza de Espana
 - Agana Marina
 - Talofofo Falls
 - Latte-Park-Agana
 - Merizo Pier Park
 - Umatac Bay

Title: Outdoor Recreation on Guam - 1973

Source Agency: Department of Commerce, Department of Land Management

Computerized: No Computer Reference: _____

General Information: REC 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Map of Guam Showing Location of Hotel and Tourist Facilities	Operational Under Construction Planned-Site Acquired		
Bar Chart Comparing Visitors and Tourists to Guam	Thousands of People	Year - 1967 thru 1972	
Bar Chart Showing Number of Hotel and Motel Rooms	Hundreds of Rooms Available	Year - 1963 thru 1972	
Table VII Tourism Outdoor Recreation Demand	Year - 1973 - 1978 Activity - Swimming - Fishing - Boating - Golf - Water Skiing - Tennis - Riding - Hunting - Hiking	Number of Tourists Activity Days - 1973 - 1978	
Outdoor Recreation on Guam 1971 Revision (October 1, 1971) Project Status	None	Type of Action Funding	

Title/Date/Source	Row Labels	Column Headings	Notes
Project Proposals for 1974 thru FY'79	None	Item Number Names of 42 Projects Type Action (Plan, Development, In House, Restoration/Development)	6
Land Acquisition Requirements FY1975-FY1979	None	Site Ownership	
Appendix B for In-House Projects: 1974-FY1979; Parks and Recreation Resources Division, Dept. of Commerce	None	Project Site Action	

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

- A detailed description of each of the 42 items is also included in the report.

Title: A Master Plan for War in the Pacific National Historical Park, GuamSource Agency: United States Department of the Interior National Park ServiceComputerized: No Computer Reference: _____General Information: REC 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Regional Map War in the Pacific Proposed National Historic Park, Guam	Map of Guam Showing - Territorial Parks - Marina - Hotel - International Airport - Primary Roads - U.S. Military Reservation		1
Historical Base Map	Map of Guam Showing - Japanese Guam Emplacement - Japanese Bomb Shelter - Japanese Caves - Japanese Fortifications - Japanese Coastal Battery - Japanese Command Post - Japanese Mass Burial - American Marine Command Post Site - American War Memorial		
Land Status	Recapitulation By Units - Asan - Piti Unit - Federal (Military) - Government of Guam - Private - Total Land - Total Water - Exterior Lands Recommended for Zoning Control By Government of Guam - Agat Unit - Federal (Military) - Government of Guam - Private	Acres - Proposed Boundary - Alternate Boundary	1

Title/Date/Source	Row Labels	Column Headings	Notes
	- Exterior Lands Recommended for Zoning Control By Government of Guam - Mount Tenjo Unit - Government of Guam Total Federal (Military) Total Government of Guam Total Private Total Land Total Water Grand Total		
Land Use and Ownership Map	Map of Guam Showing the Ownership of Land - Government of Guam - Private - Federal (Military) - Government of Guam Zoning (Proposed)		1

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

Title: Masterplan Proposed Guam National Seashore - Guam

Source Agency: U.S. Department of the Interior National Park Service

Computerized: No Computer Reference: _____

General Information: REC 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Regional Map Proposed Guam National Seashore	Map of Guam Showing - Territorial Parks - Marina - Hotel - International Airport - Primary Roads - U.S. Military Reservation		1
Natural History Basemap Proposed Guam National Seashore	Map Showing Guam's Natural History Features		
Archeological History Basemap Proposed Guam National Seashore	Map Showing Guam's Historical, Archeological Factors		
Land Use and Ownership Proposed Guam National Seashore	Partial Map of Guam Showing Land Ownership - Government of Guam - Private - Federal (Military)		1
Factors Affecting Resources and Their Use	Land Status (Acres) - Federally Owned Land - Federally Owned Water Front and Reef Areas (Submerged) - Government of Guam - Private Total	Public Use and Development Management Zones - Preservation - Private Use and Development - Subtotal	

Title/Date/Source	Row Labels	Column Headings	Notes
Land Acquisition Zones Proposed Guam National Seashore	Partial Map of Guam Showing Key to Land Management Zones - Public Use and Development - Preservation - Private Use and Development		
General Development Proposed Guam National Seashore	Partial Map of Guam Showing - Development Site - Roads - Trails (Above 3 Categories are each broken down into:) - Existing - Proposed - Obliterate		
Boundary Map Proposed Guam National Seashore	Partial Map of Guam Showing the Boundaries of National Seashore		
Land Classification Proposed Guam National Seashore	Partial Map of Guam Showing Classification of Land		

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

Title: Park Inventory
 Source Agency: Department of Commerce Parks and Recreation Resource Division
 Computerized: No Computer Reference: _____
 General Information: REC 4

Information Contained on the Document

THERE IS A PAGE FOR EACH PARK ON GUAM CONTAINING:

Name of Park
 Location (village)
 Legal Lot Description
 Size
 Ownership
 Parks and Recreation Responsibility
 Park Designation
 BOR Classification
 Activities and Facilities
 Comments
 Map Information

Title: Boating Activity In the Territory Of Guam - 1974
 Source Agency: Gillham, Koebig and Koebig, Inc.
 Computerized: No Computer Reference: _____
 General Information: REC 4

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Boats Per 1,000 Population; USCG Registration Records and Guam Harbor Police Registration Records.	Year - 1970 thru 1974	U.S. Average Hawaii Guam	
Table 2 Small Boats In the Territory Of Guam; DPS and Marianas Yacht Club.	Type Total	Number	6
Table 3 Distribution Of Craft Responding To Questionnaire, By Area	Area Total	Number Moored Number Dry Stored Total	5 7
The following 3 tables show Distribution of Craft:			
Table 4 ...By Area; DPS Registration Records	Area Total	Number Of Craft	5 7
Table 5 ...Responding To Questionnaire, By Storage Method.	Type Total	Number Of Responses In Harbors Along Coast Dry Stored	5 6
Table 6 ...By Storage Method.	Type Total	Number Of Craft In Harbor Along Coast Dry Stored	5 6

Title: Assessment of Boating in the Territory of Guam Boat Owner's QuestionnaireSource Agency: Gillham, Koebig and Koebig, Inc.

Computerized: _____ Computer Reference: _____

General Information: _____

Information Contained on the Document

ASSESSMENT OF BOATING IN THE TERRITORY OF GUAM

1. Description of Boat: Name of Boat (specify); Type (check one) - sail, outboard, cruiser, sail with auxilliary power, other; Length, beam, draft (indicate feet); Engine (indicate hp); Year Built; Present Market Value and Replacement Cost (indicate in dollars).
2. Use of Boat: Primary use of your boat is (check one) - Pleasure, rental/charter, fishing.
3. Harbor Facilities: How Boat is Stored (check one) - moored (specify place), on trailer, other (specify); If Moored - give an unimproved location which could be developed, you would where prefer to moor your boat; If Dry Stored - specify place you usually launch your boat, give an unimproved location which could be developed where you would prefer to launch your boat, specify how much more time you would use your boat if present facilities were improved, specify if you would buy or build a larger boat if adequate facilities were available.
4. Destination: Specify where you most often go in your boat; How far do you normally travel away from your launching site (check one) - less than 2 miles, 2 to 5 miles, 5 to 10 miles, over 10 miles; Does the lack of adequate harbors of refuge prevent you from traveling further; If yes specify the place where harbors are needed.
5. Fishing: What percent of your boating time is spent in fishing (check one) - none, 0 - 25%, 25 - 50%, 50 - 75%, Over 75%; What Type of Fishing do you do (check one) - trolling, bottom fishing, other; Specify where you most often do your fishing.
6. Operating Costs: Speicfy the Estimated Annual Operating Cost for your Boat Maintenance; Specify Damage to your Boat Resulting from Inadequate Harbor/Launching Facilities; Specify the Cost of Repairing the Damage.
7. Remarks: Date and Signature of the Boat Owner.

Title/Date/Source	Row Labels	Column Headings	Notes
Table 7 Use Of Craft	Type Totals	Pleasure Fishing Rental/Charter Total	6 8
Table 8 Value Of Boats (Replacement Value).	Type and Size	Number High Value (In Dollars) Low Value (In Dollars) Average Value (In Dollars) Total Value	6
Table 9 Annual Operating Costs	Type Total	Number Of Responses Use Operating Cost In Dollars - Minimum - Maximum - Average - Total	6
Table 10 Boat Damage	Type	Percentage Responding Who Suffered Some Damage Number Of Boats Damaged Total Damage In Dollars Average Cost Of Repair Annual Total Cost Of Repair	6
Table 11 Origin/Destination	Destination - Southern Coast (Orote Point To Merizo) - Northwest Coast - Northern Fishing Grounds - East Coast - Southern Fishing Grounds	Place of Origin Percent From Each Point Of Origin	

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

6. Type of Craft: Sailboats; Outboards; Inboards; Sail with Auxiliary Power.

7. Area: Northern; Central; Southern.

8. Fishing includes sport fishing, pleasure fishing, and subsistence fishing.

Title: Agana Marina Development Plan, April 1976

Source Agency: Gillham, Koebig and Koebig, Inc.

Computerized: No Computer Reference: _____

General Information: REC 5

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table IV-1 Estimated Duration and Magnitude of Deep Water Waves Approaching Agana Small Boat Harbor, Guam from the Various Directions (Northwest to North-Northeast)	Wave Height Feet	Duration, Hours per Year, for the Various Wave Periods (Sec.)	
Figure IV-1 Map of Agana Small Boat Harbor Showing Planned Improvements	Existing Conditions - Coast Line - Coral Reef - Depth Contours - Roads and Structures - Trees and Shrubs - Boring Location Recommended - Harbor Structures (Federal) - Toe of Structures - Dredging Project Limit - Depth Transition - Navigation Aids - Lighted Day Beacon - Unlighted Day Beacon		
Table V-1 Small Craft on Guam	Type - Sail Boats - Outboards - Inboards - Sail with Power Total	Number Percentage by Category Percentage Wet Stored	

Title/Date/Source	Row Labels	Column Headings	Notes
Table V-2 Small Craft Distribution (In Percent of Total); "Boating Activity in the Territory of Guam, 1974"	Region - Northern - Central - Southern - Total	Sail Boats Outboards Inboards Sail with Power Total	
Table V-3 Small Craft Requiring Wet Storage (In Percent of Total)	Region - Northern - Central - Southern - Total	Sail Boats Outboards Inboards Sail with Power Total	
Table V-4 Population Projection; "Detailed Project Report, Agana Harbor for Light-Draft Vessels, February 1973; By the U.S. Army Engineer Division, Pacific Ocean, Corps of Engineers	Years - 1970 - 1995 - 1980 - 2000 - 2025	Civilian Military Total	1
Table V-5 Boat Ownership Per 1,000 Total Population	Year - 1970 - 1972 - 1974	Mainland Hawaii	
Table V-6 Projected Boat Ownership Per 1,000 Total Population	Year - 1970 - 1975 - 1980 - 2000 - 2025	Hawaii Guam	
Table V-7 Projected Number of Boats and Wet Storage Requirements	Region - Northern - Central - Southern (Above 3 Categories are each broken down into: - Sail Boats - Outboards - Inboards - Sail with Power - Sub Total Total Boats Requiring Wet Storage Total Boats on Guam	Years - 1975 - 1980 - 2000 - 2025	

Title/Date/Source	Row Labels	Column Headings	Notes
Table V-8 Launching Requirements	Year - 1975 - 1980 - 2000 - 2025	Number of Trailered Boats Total Annual Ramp Launchings Peak Day Required Lanes	
Figure VI-2 Agana Marina Ultimate Development Plan	Map of the Agana Boat Basin Showing Planned Improvements		
Table VI-1 Size Distribution of Berths	Length of Side Ties - 20' thru 40' in Increments of 5' - 50' - Over 50' - Total	Desired Percent of Total Actual Number of Berths	5
Table VI-2 Slip Dimensions in Feet	Length - 25 thru 50 in Increments of 5 - Over 50	Clear Width Finger Width	
Table VII-1 Estimate of Federal Project Cost Heavy Construction	Description - Mobilization and Demobilization - Dredging - Revetted Mole - East Break Water - West Break Water - Wave Absorber - Circulation Channel - Sub Total - Contingency, 12% - Construction Cost - Engineering and Design - Supervision and Admin. - Total Corps of Engineers First Cost - Aids to Navigation - Total Federal Project First Cost	Unit Quantity Unit Cost Item Cost Total Cost	6

Title/Date/Source	Row Labels	Column Headings	Notes
Table VII-2 Estimate of Local Project Cost Heavy Construction	Description - North Berthing Area - Dredging - Revetment - Imported Fill - Contingencies at 12% - Construction Cost - Engineering and Admin. - Total North Berthing Areas - South Berthing Area - Dredging - Revetment - Compaction - Contingencies at 12% - Construction Cost - Engineering and Admin. at 10% - Total South Berthing Area Total Local Heavy Construction	Unit Quantity Unit Cost Total Cost	
Table VII-3 Estimated Project Cost Support Facilities	Description - Harbormaster Building - Marine Sales - Comfort Station - Recreation Area - Water Line - Sewer Line - Sewer Lift Station - Electrical Conduit - Transformer Pad - Area Lighting - Parking - Access Road - Storm Drain Relocation - Pedestrian Bridge - Contingencies at 12% - Construction Cost - Engineering and Admin. at 15% Total	Unit Quantity Unit Cost Total Cost	

Title/Date/Source	Row Labels	Column Headings	Notes
Table VII-4 Estimated Project Cost Revenue Producing Facilities	Description - Slips (South Berthing Area) - Slips (North Berthing Area) - Westerly Berthing Dock - Slips (Existing West Basin) - Berthing Dock (Existing East Basin) - Fuel Dock - Chandlery - Launching Ramp - Boat Repair Yard - Parking - South Berthing Area - North Berthing Area - Launch Ramp - Contingencies at 20% - Construction Cost - Engineering and Admin. at 15% Total	Unit Quantity Unit Cost Total Cost	
Table VII-5 Estimated Project Cost Ultimate Development	Item - Heavy Construction (Federal) - Heavy Construction (Local) - North Berthing Area - South Berthing Area - Support Facilities - Revenue Producing Facilities Total - Federal Share - Local Share	Cost	

Title/Date/Source	Row Labels	Column Headings	Notes
Table VII-6 Annual Revenue Projections Ultimate Development	Source - Speciality leases - Restaurant (5% of Gross Income) - Shops (4% of Gross Income) - Berths - Slips - Sides Ties - Launching Ramp - Miscellaneous Purchases - Fuel - Repairs - Chandlery - Total - Gross Receipts Tax at 4%	Maximum Minimum Assumed	
Table VII-7 Estimated Annual Expense Maintenance and Repair Ultimate Development	Item - Heavy Construction - Buildings - Slips Total	Construction Cost Annual Expense - Government Operation - Private Operation	
Table VII-8 Estimated Annual Expense Admin. Personnel Ultimate Development	Position - Harbormaster - Assistant Harbor-master - Clerical - Chandlery and Fuel Dock - Boat Repair - Miscellaneous at 25% Total	Government Operation Private Operation - Government - Lessee	
Table VII-9 Estimated Cost of Goods Sold Ultimate Development	Source - Fuel - Repairs - Chandlery Total	Revenue Annual Expense	

Title/Date/Source	Row Labels	Column Headings	Notes
Table VII-10 Annual Depreciation Allowance	Item - Slips - Floating Docks - Buildings - Paving - Launching Ramp	Project Cost Depreciation	
Table VII-11 Financial Analysis Bare Land Leasing Private Investor	Project Cost (Table VII-4) Gross Income (Table VII-6) Rental Payment (Table VII-6) - Berths at 20% of Gross - Launching Ramp at 20% of Gross - Miscellaneous Purchases at 4% of Gross Operation and Maintenance (Table VII-7, 8, 9) - Maintenance and Repair - Administrative Personnel - Cost of Goods Sold Net Income Capital Recovery (30 Years at 6%) Net Depreciation (50% x \$101,100) Risk Return	Dollar Amounts	
Table VII-12 Financial Analysis Bare Land Leasing, Government of Guam	Project Cost (Table VII-5) Gross Income (Rental Payments) - Restaurants and Shops (Table VII-6) - Marina (Table VII-11) Gross Receipt Tax at 4% (Table VII-6) Benefit from Federal Project Operation and Maintenance - Maintenance and Repairs (Table VII-7) - Admin. Personnel (Table VII-8) Net Income Capital Recovery (50	Dollar Amounts	

Title/Date/Source	Row Labels	Column Headings	Notes
Table VII-13 Financial Analysis Government of Guam	Project Cost (Table VII-5) Gross Income (Table VII-6) Gross Receipts Tax at 4% (Table VII-6) Benefit from Federal Project Operation and Maintenance (Table VII-7, 8, 9) - Maintenance and Repair - Administrative Personnel - Cost of Goods Sold Net Income Capital Recovery (50 years at 5.5%)	Dollar Amounts	
Table A-1 Theoretical Wave Heights in Berthing Basin (Based on 17.6 Foot Wave)	Station and Location - 1. Entrance to Berthing Area - 2. Center of Access Channel - 3. Northwest Corner of Basin - 4. Northeast Corner of Basin - 5. Southeast Corner of Basin - 6. Southwest Corner of Basin	Wave Height (Feet) Adjusted Wave Height (Feet)	7
Table A-2 Estimated Duration and Magnitude of Shallow Water (-60 Feet), Waves Approaching Agana Small Boat Harbor, Guam, from the Various Directions (Northwest to North-Northeast)	Wave Height Feet	Duration, Hours/Years for Various Wave Periods (Sec.)	
Table A-3 Selected Test Wave Characteristics and Directions	Deep Water Wave Direction - Northwest - North-Northwest - North - North-Northeast	Selected Shallow Water Wave Test Direction Selected Test Wave - Period (Sec.) - Height (Feet)	

Title/Date/Source	Row Labels	Column Headings	Notes
Table A-4 Wave Height Measurements for the Existing Harbor	Deep Water Test Direction - North-Northeast - North - North-Northwest - Northwest	Test Wave - Period (Sec.) - Height (Feet) Wave Heights at the Various Gage Locations (Phototype Feet) - Gage 1 thru 7	

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

6 - Cost of bridges assumed borne by sewage treatment plant project.

7 - Adjusted wave height was obtained by taking into account the reduction due to the wave absorber. Based on model tests of wave absorbers and wave reducing characteristics of rubblemound revetments, it is estimated that a reduction of about 15 percent would occur.

Title: Guam Historic Preservation Plan

Source Agency: Department of Parks and Recreation

Computerized: No Computer Reference:

General Information: REC 7

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1 Summary of Archaeological Site Classifications	Site Classifications - High Value - Valuable - Reserve - Marginal - Destroyed - Totals	Number of Site Changes Since 1965 thru 1966 - Number Destroyed - Number Deteriorated	5
Table 3 Summary of Historical Site Classifications	Site Classification - High Value - Valuable - Reserve - Marginal - Destroyed - Totals	Age Ranking - Spanish - First American - Japanese/WWII - Second American Total	5
Table 4 Summary of Sites by Thematic Aspects in each Historic Period	Theme - Political and Military - Economic - Social - World View - Science - Art - Architecture Total Number of Sites	Historic Periods (Number of Sites) - Chamorro Period, Prehistoric to 1521 - Spanish Period, 1521 to 1898 - First American Period, 1898 to 1941 - Second American Period, 1944 to Present	1

INVENTORY BY THEME CATEGORY

Theme Categories are Listed with 5 Development Periods:

Chamorro

Economics: Land Exploitation
 Social: Settlement Patterns, Habitation
 Art: Pictographs

Spanish Period

Political and Military: Spanish Rule
 Economic: Agriculture
 Economic: Transportation and Communication
 World View: Religion - Foreign
 Science: Exploration
 Architecture: Structure

First American Period

Political and Military: U.S. Pre-World War II
 Economic: Transportation and Communication
 World View: Religion - Foreign
 World View: Disposition of the Dead
 Architecture: Structure

Japanese Period

Political and Military: Territory (Japan)

Second American Period

Political and Military: World War II

Individual Site Information is Given in the Following Format:

Site Name (Site Number)
 Site Address
 Ownership Status
 Significant Dates
 Site Value Status
 Registration Status

The Theme Category List Contains all Sites that are Ranked as High Value, Valuable, Reserve, and Marginal and are Reported in that Order in each Theme.

Title: Guam Inventory of Archaeological Sites, Volume 1
 Source Agency: Archeologists and Historians for the Bernice P. Bishop Museum, Honolulu, Hawaii
 Computerized: No Computer Reference: _____
 General Information: REC 7

 Information Contained on the Document

Archeological Site Survey Record

1. MAP NUMBER
2. INFORMATION ABOUT SITE: Site; Grids Coordinates; Location; Contour Elevation; Previous Site Designation.
3. SITE OWNER'S INFORMATION: Owner's Name; Address; Present Tenant; Attitude Toward Excavation.
4. DETAILS ABOUT SITE: Site Description; Area; Depth of Deposit; Soil of Site; Vegetation; Previous Excavation; Surface Features, Roads, Buildings, etc.; Artifacts; Burials.
5. GENERAL INFORMATION ABOUT THE SURVEY: Date of Survey; Recorded By; Photos; Sketch of Site Map; Public Reference.

Title: Guam Register of Historic Places Inventory Data Form

Source Agency: Archeologists and Historians for the Bernice P. Bishop Museum, Honolulu, Hawaii

Computerized: No Computer Reference: _____

General Information: REC 7

Information Contained on the Document

Inventory Data Form

1. NAME: Common; And/Or Historic; Type of Site (Specify).
2. LOCATION: (Specify the Following) Street/Number; Lot or Estate Number; Municipality; Land Square and Section; GSA Code Number; Local Place Name; Site Identification Number.
3. CLASSIFICATION: Category (Check One) - district, site, building, structure, object; Ownership (Check One or More As Appropriate) - Government of Guam, private, federal; Status (Check One or More As Appropriate) - occupied, unoccupied, preservation work in progress; Accessible to Public (Check One) - no, yes (restricted), yes (unrestricted); Present Use (Check One or More As Appropriate) - agriculture, commercial, conservation, education, entertainment, government, industrial, military, museum, park, residence, ranch, religious, science, transportation, unused, other.
4. OWNER PROPERTY: Name; Street/Number; Mailing Address; Municipality; Leasee's Name(s); Leasee's Address; Owner Attitude (Check One) - unrestricted research allowed, restricted research allowed, no research allowed.
5. LOCATION OF LEGAL DESCRIPTION: Name of Government Agency; Street/Number; Mailing Address.
6. REPRESENTATION IN EXISTING SURVEYS: Title of Survey; Author/Participant; Date of Survey; Type of Survey (Check One) - GovGuam, private, federal; Survey Records Located At; Artifacts Located At.
7. DESCRIPTION: Known Pressure on Site (Check One) - yes, no; Destruction (Check One) - no known future danger, possible future danger, future danger certain, present danger, presently being destroyed, condition (check one) excellent, good, fair, deteriorated, ruins, unexposed; Integrity (Check One) - altered/original location, altered/moved, unaltered/original location unaltered/moved.
8. SIGNIFICANCE: Period (Check One or More As Appropriate) - Pre-Magellan, 16th Century, 17th Century, 18th Century, 19th Century, 20th Century; Specific Dates, Areas of Significance (Check One or More as Appropriate) - aboriginal/prehistoric, aboriginal/historic, agriculture, architecture, art, commerce, communications, conservation, education, engineering, industry, invention,

landscape architecture, literature, military, music, political, religion/philosophy, science, sculpture, social/humanitarian, theatre, transportation, urban planning, other; Importance as Example of Type Site (Check One) - good, moderate, poor; Susceptability to Interpretation (Check One) - good, moderate, poor; Research Potential (Check One) - good, moderate, poor; Local Attitude About Site (Check One) - valuable, moderate value, low value, ambivalent, unknown; Staff Evaluation (Check One) - high value, valuable, research, marginal; Recommended Disposition (Check One) - nominate national register, Guam register, staff files.

9. MAJOR BIBLIOGRAPHICAL REFERENCES: Legendary Materials Known - check yes or no; Written Historical Materials - check yes or no; List Any References.
10. GEOGRAPHIC DATA: Number of Acres; If More than 10 Acres - latitude and longitude coordinates defining a rectangle; If Less than 10 Acres - latitude and longitude coordinates defining the central point.
11. FORM PREPARED BY: Name and Title; Organization; Street/Number; City/Municipality.
12. GOVERNMENT OF GUAM REVIEW RECORD AND EVALUATION: Name of Reviewers; Title; Category (Check One) - high value, valuable, low value, marginal; Significance (Check One) - national, local; Recommended Disposition (Check One) - nominate national register, Guam register, staff file.
13. REVIEW BOARD EVALUATION RECORD: Date Reviewed; Official Category (Check One) - high value, valuable, reserve, marginal; Official Significance (Check One) - national, local; Official Disposition (Check One) - nominate national register, Guam register, staff file.

Site Description Form

1. VERBAL DESCRIPTION: Bearings and Sources Used to Locate Feature; Terrain and Vegetation; Size; Shape; Construction Techniques; Materials Used; Condition; Surface Artifacts or Midden Visible.
2. SIGNIFICANCE STATEMENT: Unusual or Important Characteristics; Accessibility; Interpretive and Research Potential; Evaluation of the Site's Importance as a Representative of its Class.
3. RECOMMENDATIONS FOR REGISTER CATEGORY
4. PICTURE OF THE SITE

Site Map Form

1. GRID MAPS SHOWING DETAIL OF THE LOCATION AND LAYOUT OF THE SITE TO SCALE.
2. SMALL MAP OF GUAM SHOWING THE AREA DETAILED.

Title: Guam Master Plan, Transportation Factors

Source Agency: Greenleaf/Telesca - Ahn.

Computerized: No Computer Reference:

General Information: TRN 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table TC-1 Motor Vehicle Registration	Year - FY1963 thru FY1970	Private Taxicab Cargo Trailer Motorcycle Dealer Bus Special Equipment Military Total Vehicle	1
Table TC-2 Motor Vehicle Registration and Population	Year - FY1963 thru FY1970	Total Vehicle Total Population Persons Per Vehicle	
Table TC-3 Parking Inventory (Date of Survey - May 1971)	Shopping Centers Recreation Centers Government Offices Finance Centers - Office Buildings	Number of Spaces	
Table TC-4 Revenue Cargo Handled; Manager, Commercial Port of Guam	Year - FY1963 thru FY1969	Unloaded (Thousand Tons) Loaded (Thousand Tons) Trans-Shipped Total	
Table TC-5 Surface Landings	Year - FY1963 thru FY1969	United States Japanese Inter-Island Other Countries Military Total	1
Table TC-6 Tourist and Visitors Arrivals; ERC, Dept. of Commerce	Year - 1967 thru 1969	Tourists Visitors Total	

TRN Detail 1

Title/Date/Source	Row Labels	Column Headings	Notes
Table TC-7 Projections - Tourist and Visitor Arrivals, ERC, Dept. of Commerce	Year - 1970 thru 1975	Tourists Visitors Total	
Table TC-8 Air Freight (Thousand Lbs.)	Year - 1967 thru 1969	Unloaded Loaded Total	

NOTES.

Notes 1 thru 5 are standard notes, refer to introduction.

Title: Statistical Abstract, 1974, Volume 2
Source Agency: ERC, Department of Commerce
Computerized: No Computer Reference: _____
General Information: TRN 2

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table No. 75 Motor Vehicles Licensed on Guam: FY1965-FY1974; Dept. of Revenue and Taxation	Year - FY1965 thru FY1974	Private Taxicab Cargo Trailer Motorcycle Dealer Bus Special Equipment Military Total	1
Table No. 76 Commercial Aircraft Landings, Guam Interna- tional Air Terminal: FY1965-FY1974; Customs and Quarantine Division, Dept. of Commerce	Year - FY1965 thru FY1974	Number of Commercial Aircraft Landings	
Table No. 77 Surface Craft Arrivals, By Origin, Commercial Port of Guam: FY1965- FY1974; Customs and Quarantine Division, Dept. of Commerce	Year - FY1965 thru FY1974	Inter-Island Japan United States Other Total	
Table No. 78 Total Revenue Cargo: FY1965-FY1974; Surface- Commercial Port of Guam, and Air-Guam Interna- tional Air Terminal	Year - FY1965 thru FY1974	Surface (Thousand Reve- nue Tons) Air (Thousand Lbs.) (Above 2 Categories are each broken down into:) - Unloaded - Loaded - Total - Transshipped (Surface Only)	

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

Title: Transportation Planning Manual

Source Agency: Department of Public Works

Computerized: No Computer Reference: _____

General Information: TRN 3

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
1-20 Figure 8 Guam Origin - Destination Survey November, 1973; Planning Division, Dept. of Land Management	Map of Guam Showing the Location of Roadside Interview Stations and the Survey Cordon Line		
1-21 Figure 9 <u>Roadside Interview</u>			
1. DPW INFORMATION: 4 Vehicles are Interviewed on Each Form - Station Number, Travel Date and Day of the Week, Hour (a.m., p.m.); Interviewer's Name.			
2. TYPE OF VEHICLE: Passenger Auto; Pickup or Panel; Single Unit Truck; Combination Truck; Taxi; Motorcycle.			
3. NUMBER OF PERSONS IN VEHICLE			
4. PLACES OF ORIGIN AND PLACES OF DESTINATION: Agana; Agana Heights; Naval Station; Agat; Naval Station; Asan; Nimitz Hill; Barrigada; Naval Air Station; Chalan Pago-Ordot; Dededo; Liguana Terrace; Naval Communication Station; Inarajan; Mangilao; University of Guam; Merizo; Piti; Commercial Port; Santa Rita; Naval Magazine; Sinajana; Talofofo; Tamuning; Interna- tional Airport; Guam Memorial Hospital; Harmon Field; Yona; Yigo; Anderson Air Force Base; Umatac.			
5. PURPOSE OF TRIP AT ORIGIN AND DESTINATION: Work; Shopping; Medical-Dental; Social-Recreational; Pickup Mail; School/Bus Stop; Other Personnal Business; Hotel; Home.			
6. VEHICLE USER CATEGORY: U.S. Government Vehicle; Gov/Guam Vehicle; Commercial Business Vehicle; Resident - Chamorro, Filipino, Oriental; Resident - State- sider; Temporary Resident/Contract/Alien; Visitor; Military Personnel/ Dependents.			
1-25 Figure 11 1973 Guam Origin - Desti- nation Study Summary of O-D Trips by User Category and Trip Purpose	Vehicle User Category - Civilian Residents - Chamorro, Filipino, Oriental - Statesiders - Temporary Residents - Subtotal	Trip Purpose Summary - Home/Work - Home/Shop - Home/Other - Non Home Based - Total	5 1

Title/Date/Source	Row Labels	Column Headings	Notes
	- Military Personnel and Dependents - Commercial Business - Gov Guam - U.S. Government Vehi- cles - Subtotal - Visitors - Total		
27 Figure 12 1973 Guam Origin - Desti- nation Study Average Vehicle Occupancy by User Category and Trip Purpose	Vehicle User Category - Civilian Residents - Chamorro, Filipino, Oriental - Statesiders - Temporary Residents - Military Personnel and Dependents - Visitors - Commercial Business - Gov Guam - U.S. Government - Total	Trip Purpose Group - Home/Work - Home/Shop - Home/Other - Non Home Based All Other Trips	1
31 Figure 15 Estimated Average Day Traffic Interchange Between Municipalities November, 1973 Origin - Destination Survey	Observed Trips Between - 19 Municipalities Total Observed Trip Ends (Origins and Destina- tions)	Observed Trips Between - 19 Municipalities Observed Trip Ends (Total Origin and Destinations)	
36 Figure 17 Guam Population and Employment 1970 Census and Estimated 1973 Distribution	Municipality - 19 Municipalities	1970 Census - Resident Population - Civilian - Military - Total	1 6
41 Figure 20 Guam Socio/Economic Data - 1970 44 Figure 26 Guam Socio/Economic Data - Forecast Level 1 Above 2 Tables Have the Same Row Labels and Column Headings)	Items - 1970 Population - Guam Born Civilian - U.S. Born Civilian - Foreign Born Civilian - Military - Total - Census District Total - 1970 Housing (Number of Dwelling Units) - Single Family Dwel- ling Units	19 Districts - Agana - Agana Heights - Naval Hospital - Civilian - Agat - Asan - Nimitz Hill - Civilian - Barrigada - Naval Air Station - Naval Radio Station	1 7

Title/Date/Source	Row Labels	Column Headings	Notes
	- Multi Family Dwelling Units (Above 2 Categories are each broken down into:) - Civilian - Military - Total - Total Dwelling Units - Census District Total - 1970 Employment - Retail Wholesale Employment - Non Retail (Including Gov. Guam) - Federal Government (Civilian) - Military Jobs (Total) - Total Jobs - Census District Job Total - 1970 Income - Civilian Family Income - Percent Over \$5,000 - Percent Over \$10,000 - Percent Over \$15,000 - 1970 Education (Number of Schools) - Elementary and Junior High - High School - University - Miscellaneous - Hotel Motel Rooms - P.O. Boxes (1972)	- N.E. Civilian - S.W. Civilian - Ordot To Chalan Pago - Dededo - NCS Housing - NCS - AAFB N.W. Field - Civilian - Inarajan - Mangilao - N.E. Civilian - S.W. Civilian - Merizo - Mongmong-Toto-Maite - Piti - Apra Harbor - Civilian - Santa Rita - Naval Station - Naval Station Housing - Naval Magazine - N.E. Civilian - S.W. Civilian - Sinajana - Talofofo - Tamuning - Harmon Village - Civilian - Yona - Yigo - Marbo - AAFB - Civilian - Umatac - Totals	
2-13 Exhibit I Highway Control Sections Map	Map of Guam Showing - Control Section - Subsection - Control Section Terminator - Subsection Terminator - Route Number		

Title/Date/Source	Row Labels	Column Headings	Notes
23 Guam Bridge Inventory Index as of 12-31-73	None	Map Reference Number Route Number Control Section Mile Post Type of Structure Feature Crossed	
44 Exhibit XVIII Listing of Control Sections by Route	None	Control Section List by Route - Control Section - Sub - Route - Highway Class - Federal Aid - Municipal Jurisdiction - Registered Mile Post - Section Length Control Section Description	
3 Figure 1 Liquid Fuel Tax and Vehicle Registration	Graph Showing Revenue in Millions of Dollars - Total Revenue - Liquid Fuel Tax - Motor Vehicle Registration	Historical Data - FY1962 thru FY1973 Projected Data - FY1973 thru FY1978	
6 Motor Vehicle Registration: FY1962-FY1973 Separate Tables for Each (Year); Dept. of Public Works, Highway Division Cooperation with the Dept. of Revenue and Taxation	Private (By Revenue and Taxation) - Taxicab - Cargo - Trailer - Motorcycle - Dealer - Bus - Special Equipment - Soldier/Sailors - Total Exempt (By Highway Division) - Sedan - Pickup/Van - Cargo - Trailer - Bus - Total	Quarter - 1st thru 4th - Number of Vehicles - Amount Revenue Total GovGuam U.S.	8 9 10 11

Title/Date/Source	Row Labels	Column Headings	Notes
4-18 Liquid Fuel Tax Statistics: FY1962-FY1973 (Separate Tables for Each Year); Dept. of Public Works, Highway Division In Cooperation with the Dept. of Revenue and Taxation	Revenue - Gasoline - Diesel Fuel - Aircraft Fuel (Above 3 Categories are each broken down into:) - Gallons - Collections - Tax Rebate - Disbursements Total - Gallons - Net Revenue Exempt - Export Fuel (Gallons) - Military Fuel (Gallons) Total	Quarter - 1st thru 4th Total	12 13 1
6-14 Exhibit I Traffic Count Stations (1969 and 1972)	Map of Guam Showing Traffic Count Stations - Station Number		
6-19 Exhibit IV 1974 Machine Count Program	None	Route Number Functional Classification Control Section Number Count Location Number Count Type - Continuous Key - Key - Major - Minor - Coverage Date of Count Manual Classification Count Year	
6-22 Exhibit 5 Station Locations for Traffic Counting Program	Map of Guam Showing Count Station Locations - Continuous - Key - Major - Minor - Coverage - Station Number		
6-23 Exhibit VI Summary Form for Vehicular Volumes 7-Day Key/Major Count Station (Daily Factor)	Time of Day Total Number of Vehicles	Days of the Week and Date - Monday thru Sunday 5 Day Average	

Title/Date/Source	Row Labels	Column Headings	Notes
6-24 Exhibit VII Summary Form For Vehicular Volumes	Time Of Day In Increments Of 1 Hour Daily Total	Direction Direction Hourly Total Percent Of Grand Total Percent Of Hourly Peak Direction - List Of: - Daily Count Grand Total - Related Key Station - Additional Adjustment Factor - Average Daily Traffic - Percent A.M. Peak Hour - A.M. Dir. Split - Percent P.M. Peak Hour - P.M. Dir. Split	
6-26 Exhibit VIII Vegicle Classification Count	Hour Period - 6:00 A.M. to 10:00 P.M. in increments of 1 hour	Date and Day Of Week Passenger Automobiles Pickup or Panel Large Commercial Vehicles - Single Unit - 2 Axle - 3 Axle - Combination - 3 Axle - 4 Axle - 5 Axle - Total Large Trucks Taxi Motorcycle Buses - School - Military - Other - Total Buses	
6-27 Exhibit IX Traffic Classification Count Summary			
6-28 Exhibit X Vehicle Volume Count			
6-29 Exhibit XI Vehicle Volume Graphic Summary Sheet			
(The above 4 exhibits have the same row labels and column headings.)			

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

6 - For study purposes, N.A.S. is considered entirely within Barrigada.

7 - Table 26 also shows projected civilian population increase, projected housing density and projected percent of employment in each place. There are no figures for education.

8 - FY1973 table includes Private Motor Vehicle Registration data for 1st thru 4th Quarters with the total number and revenue; and Exemption data for GovGuam, U.S. Navy and U.S. Air Force with the total number.

9 - FY1972 and FY1971 tables include Private Motor Vehicle Registration data for 1st thru 4th Quarters with the total number and revenue; and Exemption data for U.S. Navy and U.S. Air Force.

10 - FY1970 and FY1969 tables include Private Motor Vehicle Registration data for 1st thru 4th Quarters with the total number and revenue.

11 - FY1968, FY1967, FY1966, FY1965, FY1964, FY1963 and FY1962 include Private Motor Vehicle Registration data for the total number and revenue only.

12 - FY1973, FY1972, FY1971, FY1970 and FY1969 tables include total revenue and total exempt data for the year only.

13 - FY1968, FY1967, FY1966, FY1965, FY1964, FY1963 and FY1962 tables include revenue data for 1st thru 4th quarters with the total net revenue only, and the total gallons of fuel for the year.

Title: Transportation Program - Fiscal Year 1975 Thru 1979

Source Agency: Department of Public Works Division

Computerized: No Computer Reference: _____

General Information: TRN 3

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table I.1 Guam Transportation Program, Total Cost of Recognized Needs	Trunk Highways Major Highways Minor Highways Collector Roads Local Roads Bridges Urban Mass Parking Pedestrian and Bicycles Highway Safety New Construction - Trunk - Major - Minor - Collector - Local Project Total Highway Operations Grand Total of Dollar Needs Local Funds Unmet Dollar Needs	Year - 1975 thru 1979 - 1980 and Beyond	
Table II.1 Trunk Highways Listing (Location of the Trunk Highways are also Shown on a Map of Guam (Figure II.1) Volume/Capacity Ratios are Color Coded on the Map)	None	Route Number Control Section Number of Lanes Length	
Table II.2 Trunk Highways Reconstruction (Locations of Trunk Highway Reconstructions are also Shown on a Map of Guam (Figure II.2) Volume/Capacity Ratio are Color Coded on the Map)	Project - Route 10, from Route 15 to Route 8 - Route 1 from Route 14 to Route 4 - Route 10 from Route 4 to Route 15 - Route 4, Part 3 Route 10 to Chaot	Rank/Rating Year - FY1975 thru FY1979 - FY1980 and Beyond (Above 2 Categories are each broken down into:) - Federal - Local	

Title/Date/Source	Row Labels	Column Headings	Notes
	- Route 2 from Route 1 to Namo River - Route 4, Reconstruction Part 2 Bottom Hill to Chaot - Progressive Signalization of Marine Drive, from Route 10A to Y-Sengsong - Route 1 from Route 4 to Naval Station - Route 8, Reconstruction - Route 27, Harmon Loop - Route 1, Route 16 to Route 28 (Y-Sengsong Road) - Route 1, Route 28 to Yigo		
Table II.3 Major Highways Listing (Location of the Major Highway are also Shown on a Map of Guam (Figure II.3))	None	Route Control Section Number of Lanes Length Total Miles for 2 Lanes	
Table II.4 Major Highways Reconstruction (Locations of Major Highway Reconstruction are also Shown on a Map of Guam (Figure II.4) Volume/Capacity Ratios are Color Coded on the Map)	Project - Route 15, Route 10 to Route 29 - Route 7, Reconstruction - Route 1, Yigo to AAFB - Route 4, Route 10 to Route 17	Rank/Rating Year - FY1975 thru FY1980 - FY1980 and Beyond (Above 2 Categories are each broken down into:) - Federal - Local	
Table II.5 Minor Highways Listing (Locations of the Minor Highways are also Shown on a Map of Guam (Figure II.5))	None	Route Control Section Number of Lanes Length	

Title/Date/Source	Row Labels	Column Headings	Notes
Table II.6 Minor Highways Reconstruction (Locations of the Minor Highway Reconstructions are also Shown on a Map of Guam (Volume/Capacity Ratios are Color Coded on the Map))	Project - Route 15, Route 29 to AAFB - Route 3 and Route 9 Shoulders and Surface - Route 2, Taleyfac Bridge to Umatac - Route 17 - Route 4, Route 17 to Umatac - Route 31	Rank/Rating Year - FY1975 thru FY1979 - FY1980 and Beyond (Above 2 Categories are each broken down into:) - Federal - Local	
Table II.7 Collector Road Listing (Locations of Collector Roads are also shown on a Map of Guam (Figure II.7))	None	Route Control Section Number of Lanes Length	
Table II.8 Collector Roads Reconstruction	Project - Route 11, Overlay - Route 14, Hospital Road - Ypao Road - Route 33, MongMong-Toto - Route 32, U.O.G. - Route 29 - Tumon Road-J.F.K. - Harmon Village Road - Route 6 Total	Rank/Rating Year - FY1975 thru FY1979 - FY1980 and Beyond (Above 2 Categories are each broken down into:) - Federal - Local	
Table II.9 Village Street Improvement	None	Villages Miles of All Local Streets Schedule for Repair or Finished Cost of Program	
Table II.10 Guam Bridge Inventory Index as of 12/31/73 (Location of Bridges is also shown on a map of Guam (Figure II.8))	None	Map Reference Number Route Number Control Section Milepost Type of Structure Feature Crossed	

Title/Date/Source	Row Labels	Column Headings	Notes
Table II.12 Accidents at Bridges	None	Rank Bridge Name 1973 Total Accidents	
Table II.11 Bridge Projects	Project - Talofoto Reconstruc- tion - Alonso - Inarajan Bridge Recon- struction - Chaote Bridge - Sumay and Lygog - Pago Bridge Reconstruc- tion - Umatac Bridge - As Lingit Bridge - Minondo Bridge - Agana Bridge - Sasa Bridge - Agfayan Bridge - Aguada Bridge - Aplacho Bridge - Fonte Bridge - Atantano Bridge Total	Rank/Rating Year - FY1975 thru FY1979 - FY1980 and Beyond (Above 2 Categories are each broken down into:) - Federal - Local	
Table II.13 New Construction (Locations of New Construction are also Shown on 5 Maps of Guam (Figure II.9.A thru II.9.E))	Project - Highway Planning and Research - Collectors - North-South Alter- nate to Marine Drive - Trunk Highways - Cross N.A.S. Artery - Central Artery - 1 - Central Artery - 2 - Central Artery - 3 - Minor Highways - Realignment of Route 4 from Umatac to Inarajan (7 Miles)	Year - FY1975 thru FY1979 - FY1980 and Beyond (Above 2 Categories are each broken down into:) - Federal - Local	
Table I.2 Schedule of Local Revenues	Local Registration Liquid Fuel Tax Total Local	Year - FY1975 thru FY1979	

Title/Date/Source	Row Labels	Column Headings	Notes
Table I.7 Status of Obligation	None	Project Name Project Number Planning and Engineering Federal Share Utility Work Construction Total Local Appropriated Total Cost	

Title: Guam Comprehensive Transportation PlanSource Agency: Department of Public Works - Planning DivisionComputerized: No Computer Reference: _____General Information: TRN 3

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 1-1 Goals, Objectives and Policies of the Comprehensive Transportation Plan 1970-1975; Dept. of Public Works	Goals - Transportation Performance - Transportation Balance - Support National and Local Interests - Environmental Preservation	Objectives Policies	
Table 2-a Population Projection Range 1950 thru 1990; Bureau of Census	Numbers in Thousands	Years	
Table 2-1 Population 1960-1970; Bureau of Census	Year - 1960 - 1965 - 1970	Military Guamanians Statesiders Filipinos Others Total	1
Table 2-2 Motor Vehicle Registration 1964-1974; Planning Division of D.P.W.	Year - 1964 - 1969 - 1974	Private Military Commercial Other Total	1
Figure 2-b Guam Land Ownership Pattern; 1975; D.P.W.	Map of Guam Showing the Ownership of Land - Federal - Government - Private		
Figure 2-c Development Areas; 1975; D.P.W.	Map of Guam Showing the General Locations where development is		

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 2-d 1980 Projected Civilian Land Use; D.P.W.	expected to take place; - Residential - Commercial - Industrial		
Figure 2-e Military Lands; D.P.W.	Map of Guam Showing the Generalized Land Use - Residential - Commercial - Industrial		1
Figure 3-a Average Daily Traffic; 1973; D.P.W.	Map of Guam Showing the Locations of the Various Military Installations on Guam		
Figure 3-b Average Daily Traffic Forecast Level; D.P.W.	Map of Guam Showing the Average Daily Traffic on the Present Primary Highway Network		
Figure 3-c Forecast Volume to Present Roadway Capacity; D.P.W.	Map of Guam Showing the Average Daily Traffic Forecast in 1988 assuming no significant highway additions are constructed		
Figure 3-d Forecast Volume to Present Roadway Capacity; D.P.W.	Map of Guam Showing the Volume to Present Roadway Capacity; - Ratio greater than 1.5 - Greater than 1.1 but less than 1.5 - Greater than 1.0 but less than 1.1		
Figure 3-e Travel Demand to Agana; D.P.W.	Map of Guam Showing the existing and forecast traffic destined for Agana, Tamuning and Mangilao		6

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 3-f Travel Demand to Tamuning; D.P.W.			
Figure 3-g Travel Demand to Mangilao			
(Above 3 figures have similar row labels)			
Figure 4-a Reconstructed Network; D.P.W.	Map of Guam Showing the Reconstructed Segments - 2 lanes - 4 lanes - 6 lanes		
Figure 4-b New Highway Alternatives; D.P.W.	Map of Guam Showing Major Highway Recom- mendations		7
Figure 5-a C.T.P. Recommended Highway Plan; D.P.W.	Map of Guam Showing the Location of the Recom- mended New Segments of the Primary Highway Network		8
Land Ownership; 1975; Land Management	Federal Gov't. of Guam Private Lands	Acres	5
Table 2-3 Population Projection by District; 1970 thru 1990; D.P.W.	19 Districts Military Total	1970 Census 1980 1988-1990	1
Table 2-4 Gross National Report; FY 1967-FY 1973; Stanford Research Institute	Year - FY 1967 thru FY 1973	Guam's GNP (millions of dollars)	
Table 2-5 Employment Third Quarter; 1973; Bureau of Labor Statistics	Industry Division - Agriculture - Construction - Manufacturing - Transportation, Communication, Electric, Gas & Sanitary Service - Wholesale & Retail Trade	Total Employment	5

Title/Date/Source	Row Labels	Column Headings	Notes
	- Finance, Insurance & Real Estate - Service - Government - Federal - Local - Total		
Table 2-6 Automobile Operation Costs; 1975; D.P.W.	Four Year Straight Line Depreciation of \$400 Car. Insurance, Licensing and Registration Maintenance Costs Fuel Costs Total Yearly Costs	Yearly Costs	
Table 3-1 Section of Highways on Guam by Level of Service Given to Users; 1975; D.P.W.	Level C Level D Level E Level F	Road Segments	9
Table 3-2 Miles of Road by Classi- fication; 1974; Planning Division of D.P.W.	Lanes - 2 lanes - 3 lanes - 4 lanes - over 4 lanes - Total - Local	Trunk Major Minor Collector Local Total Paved Unpaved	
Table 3-3 Trips between Central Guam Traffic Districts; 1973; origin-destination Survey	Origins - forecast level-1 - forecast level 1 - subtotal - total - 1973	Destinations - 1973 Subtotal	10
Table 4-1 Highway Alternatives Cost; 1975; D.P.W.	Alternative I - Base Program - New Highway Projects - Marbo Connector - Airport Road Extension - 4 lanes to Rt. 16 - Marine Drive widening to 6 lanes Rt. 6 to Rt. 4 - Total Cost	Cost	11

Title/Date/Source	Row Labels	Column Headings	Notes
	Alternative III - Base Program - New Highway Projects - Marbo Connector - Airport Road Extension - Jalaguac Road Connector - Marine Drive widening to 6 lanes Rt. 6 to Rt. 4 - Rt. 15 to Rt. 4 Connector - Total Cost Alternative II - Base Program - New Highway Projects - Marbo Connector - Airport Road Extension - 4 lanes to Rt. 16 - Jalaguac Rd. Connector - Marine Drive widening to 6 lanes Rt. 6 to Rt. 4 - Total Cost Alternative IV - Base Program - New Highway Projects - Marbo Connector - Airport Road Extension - Jalaguac Rd. Extension - Rt. 15 to Rt. 4 Connector - Nimitz Hill by pass - Total Cost		
Various Transportation Modes; D.P.W.	Automobile Bus Transit Dual Mode Fixed Rail	Vehicles per lane per hour Vehicle capacity Passengers per hour per lane	
Capital Facilities and Equipment; 1974; D.P.W.	60 Bus System - 40-50 passenger buses - 20-30 passenger buses - spare parts and engines - 65 system two-way radios - 200 bus shelters - staging area in Agana - Commuter parking areas - Bus Compound and Repair Facilities and Office - Total 120 Bus System - 80-50 passenger buses - 40-30 passenger buses	Cost	

Title/Date/Source	Row Labels	Column Headings	Notes
	- spare parts and engines - 130 system two-way radios - 400 bus shelters - 3 passenger staging areas - 6 parking areas - Bus Compound and Repair Facilities and Office - Total		
Table 5-1 Road Reconstruction Program; D.P.W.	Group A - First Five Year Program - Project - Bridges - Road Reconstruction Group B - Second Five Year Program - Project - Bridges - Road Reconstruction Group C - Third Five Year Program - Project - Road Reconstruction	Lanes Miles Cost	4
Table 5-2 New Highway Construction Program; 1974; D.P.W.	Group A - First Five Year Program - Project - Total Cost Group B - Second Five Year Program - Project - Total Cost Group C - Third Five Year Program - Project - Total Cost		
William Home Based Work Trips per Day; 1973; D.P.W.	Arrivals at Agana from - Yigo - Dededo - Santa Rita/Agat - Chalan Pago/Ordot - Umatac - Merizo - Inarajan - Talofoto - Yona	Number of People	

Title/Date/Source	Row Labels	Column Headings	Notes
	Arrivals at Naval Station from - Dededo - Barrigada - Sinajana - Chalan Pago/Ordot Arrivals at Tamuning from - Dededo - Santa Rita - Agat - Chalan Pago/Ordot		
Table 5-3 Comprehensive Transportation Plan: Recorded Programming; 1975-1990; D.P.W.	First Five Year Program 1975-1980 - Group A Reconstruction Projects - New Highway Construction Second Five Year Program 1980-1985 - Group B Reconstruction Projects - New Highway Construction - Transit Third Five Year Program 1985-1990 - Group C Reconstruction Projects - New Highway Construction - Transit		
Table 6-1 Territorial Highway Fund: Projected Revenues; 1976 to 1990; D.P.W.	Year - 1976 thru 1990	Vehicle Registration Retail Fuel Diesel Fuel Aircraft Fuels Federal Aid Total	12
Table 6-a Motor Vehicle Registration 1975 to 1990; D.P.W.	Number of Vehicles Registered in Thousands	Year - 1975 thru 1990 in increments of five years	
Table 6-2 Estimated Funds Available; 1976-1990; D.P.W.	Year - FY 1976 thru FY 1990	THF Revenues Operation Expenditure Funds Available	12

Title/Date/Source	Row Labels	Column Headings	Notes
Table 6-3 C.T.P. Estimated Yearly Deficits: Full Plan Implementation; 1976 thru 1990; D.P.W.	Year - 1976 thru 1990	Total Program Funds Available Deficit	12
Table 6-4 C.T.P. Estimated Yearly Deficits: Partial Program Implementation; 1976 thru 1990; D.P.W.	Year - 1976 thru 1990	Partial CTP Program Funds Available Deficit	12
Registration Fees; 1974; Dept. of Revenue and Taxation; D.P.W.	Motorcycle Taxi Special Equipment Bus Trailer Private	Fees	
Table 6-5 Per Capita Personal Income Comparisons Guam and Other States; 1970 thru 1972; D.P.W.	Year - 1970 thru 1972	Guam Mississippi Connecticut Hawaii U.S.A.	
Table 6-6 Financing: Increasing Federal Aid: Total C.T.P. Program; 1976 thru 1990; D.P.W.	Year - 1976 thru 1990	Total CTP Program Funds Available Required Federal Aid	13
Table 6-7 Financing: Increasing Federal Aid: Partial C.T.P. Program; 1976 thru 1990; D.P.W.	Year - 1976 thru 1990	Partial CTP Program Funds Available Required Federal Aid	13
NOTES: Notes 1 thru 5 are standard notes, refer to Introduction. - In vehicle trips per day. - Highway Recommendations: Marbo Connector; Airport Road Reconstruction; 4-lane Route 16; Jalaguac Road Connector; Route 15 to Route 4 Connector; Commissary Junction to Route 6; Marine Drive Widening; Route 6 to Route 4; Nimitz Hill By Pass.			

- 8 - Recommended New Segments: Marbo Connector; Airport Road Extension; Jalaguac Road Extension; Route 15 to Route 14 Connector; Nimitz Hill By Pass.
- 9 - Levels of Service:
 Level C - Accepted by traffic engineers as a desirable standard for construction of urban streets and highways.
 Level D - Approaches unstable flow
 Level E - Represents operation at even lower operating speeds than in Level D.
 Level F - Describes forced flow operation at low speeds where volumes are below capacity.
- 10 - Origins and Destinations: Agana; Tamuning; NAS; Barrigada Hill; Barrigada; Mangilao; Chalan Pago/Ordot; Sinajana; Agana Heights.
- 11 - Base program is complete 15 year reconstruction program.
- 12 - Assumes continuation of current tax rates for the T.H.F.
- 13 - Difference between expenditure from T.H.F. and local revenues.

Title: Origin Destination Trip Count for G

Source Agency: Department of Public Works

Computerized: Yes, but not available Computer Reference: _____

General Information: _____

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Highway Network 1973	Row Labels and Column Headings are Identical; They are the Following 36 Zones:		
Forecast Level 1-Net 2	No. 1 Naval Station	No. 25 Sinajana	
(Above 2 Tables Have the Same Row Labels and Column Headings)	No. 2 Naval Station Housing	No. 26 Chalan Pago-Ordot	
	No. 3 Naval Magazine	No. 27 Asan (North of Nimitz Hill) - Civil	
	No. 4 Apra Harbor	No. 28 Piti (North of Naval Reservation) - Civil	
	No. 5 Nimitz Hill	No. 29 Yona	
	No. 6 Naval Hospital	No. 30 Santa Rita (N.E. of Naval Reservation) - Civil	
	No. 7 Naval Air Station	No. 31 Santa Rita (S.W. of Naval Reservation) - Civil	
	No. 8 Naval Radio Station	No. 32 Agat - Civil	
	No. 9 NCS Housing	No. 33 Talofofo - Civil	
	No. 10 Naval Communications Station	No. 34 Inarajan	
	No. 11 AFB Housing (Marbo)	No. 35 Umatac	
	No. 12 Anderson Air Force Base	No. 36 Merizo	
	No. 13 AAFB - Northwest Field		
	No. 14 AAFB - Harmon Village		
	No. 15 Tamuning - Civil		
	No. 16 Dededo - Civil		
	No. 17 Yigo - Civil		
	No. 18 Mangilao (North East Portion) - Civil		
	No. 19 Barrigada (North East Portion) - Civil		
	No. 20 Mangilao (South West Portion) - Civil		
	No. 21 Barrigada (South West Portion) - Civil		
	No. 22 Mongmong-Toto-Maite		
	No. 23 Agana		
	No. 24 Agana Heights - Civil		

Title: Proposed Strategy for Mass Transit on GuamSource Agency: Department of Public WorksComputerized: No Computer Reference: _____General Information: TRN 4

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Home to Work Trips in Major Travel Areas on Guam	Arrivals at Agana from - Yigo - Dededo - Santa Rita/Agat - Chalan Pago/Ordot - Umatac Arrivals at Agana from - Merizo - Inarajan - Talofofo - Yona Arrivals at Naval Station from - Dededo - Barrigada - Sinajana - Chalan Pago/Ordot Arrivals at Tamuning from - Dededo - Santa Rita - Agat - Chalan Pago/Ordot	Person Trips Per Day	6

NOTES:

6 - This table is untitled in the report. According to the text, the numbers are based on an origin - destination roadside interview conducted "last November".

Title: Application of the Government of Guam for Mass Transportation Capital Improvement GrantSource Agency: Department of Public WorksComputerized: No Computer Reference: _____General Information: TRN 4

Information Contained on the Document

EXHIBITS CONTAINED: Project Description; Public Transportation System; Project Justification; Financing From Transportation System Revenues; Net Project Cost and Grant Funds; Planning; Public Transportation Program; Use of Project Facilities, Labor; Public Hearing; Relocation; Environmental Impact Statement; Elderly and Handicapped Applicants; Map of the Applicants Jurisdiction on Non-Discrimination in the System.

APPENDICES:

General Fund: Statement of Revenue
 Public Law 12-101
 Public Law 12-110
 Territory of Guam Master Plan
 1970 Highway Master Plan
 Public Law 11-82
 Proposed Strategy for Mass Transit on Guam
 Transcript of Public Hearing
 Submitted Testimonys
 Responses to Environmental Impact Statement and Public Hearing Questions
 Environmental Impact Statement
 Major Traffic Generators on Guam

Title: The Agana Traffic Circulation Plan

Source Agency: Jonathan Michael

Computerized: No Computer Reference: _____

General Information: TRN 4

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Tabla 2-2 Building Types and Dwelling Units by Area; Field Survey, DPW, Planning Division, Feb. 1975	Area - East Agana - Central Agana - West Agana - Totals	Single Family Homes Multiple Family Building Total Family Dwelling Units	
Table 2-3 Business Activity and Employment in Agana; DPW, Planning Division, Field Survey, Feb. 1975	Business Activity - Type - Subtotals by Area - Total in Agana	Business by Area Employment by Area (Above 2 Categories are each broken down into:) - East - Central - West	
Table 2-4 Zoning and Land Use in Agana; DPW, Planning Division, Field Survey, Feb. 1975	Present Zoning - Classification - East Agana - Central Agana - West Agana (Above 3 Categories are each broken down into:) - Agriculture - Residential - Commercial - Industrial - Subtotals - Totals Existing Land Use - Classification - East Agana - Central Agana - West Agana (Above 3 Categories are each broken down into:) - Public Institutions - Open Spaces - Residential - Commercial	Number of Acres	5

Title/Date/Source	Row Labels	Column Headings	Notes
	- Industrial - Roads - Subtotals - Totals		
Pedestrian Crossing at Selected Intersections; DPW, Planning Division, Field Survey, Spring 1975	None	Intersection Miles Per Hour 8 Hour Period	
Table 3-1 Curbside Parking/Interior Block Parking; DPW, Planning Division, Field Survey, Spring 1975	None	Curbside Parking - Block Numbers - Total Spaces Available - Daily Average Legally Parked Cars - Daily Average Illegally Parked Cars Interior Block Parking - Lot Spaces Available - Daily Average Legally Parked Cars - Daily Average Illegally Parked Cars - Non-Lot Illegally Parked Cars	
NOTES: Notes 1 thru 5 are standard notes, refer to introduction.			

Title: Monthly Accident Analysis Report, January, 1975

Source Agency: Planning Division, Department of Public Works

Computerized: Yes Computer Reference: TRN Detail 27

General Information: TRN 4

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
I Accident Summary - January, 1975 (Consists of 10 Different Tables)			
I-1 Accident Totals	Accidents Injury Accidents Injuries Fatality Accidents Fatalities Total Dollar-Damages as Estimated on Accident Reports	Numbers	
I-2 Serious Accident Types	Accidents Involving Pedestrians Vehicles Running Off Roads Head on Collisions Overturned Vehicles	Numbers	
I-3 Age, Sex, and Ethnic Origin of Drivers	Age - Unknown - Less than 20 - 20 thru 74 in Incre- ments of 5 Years Sex - Female - Male Ethnic Origin - Unknown - Guamanian - Statesider - Filipino - Korean - Japanese - Other Oriental - Micronesian - Other	Numbers	

Title/Date/Source	Row Labels	Column Headings	Notes
I-4 Collision Accidents	Collision Type - Rear End - Head On - Sideswipe - Other - Non Traffic	Number	
I-5 Selected Accident Types	Accident Type - Two Motor Vehicles, Both Driven - Accidents Involving Fixed Object - Accidents Involving More than two Motor Vehicles - Accidents in which a Vehicle ran off Road - Accidents in which Vehicle Overturned - Accidents Involving Motor Vehicles, at Least one Vehicle Not Driven	Number	
I-6 Day of the Week and Time of Day of Accidents	Day of Week - Monday thru Sunday Time of Day - 11:00 a.m. thru 3:00 p.m. - 3:00 p.m. thru 7:00 a.m. - 7:00 a.m. thru 11:00 a.m. - 11:00 a.m. thru 3:00 p.m. - 3:00 p.m. thru 7:00 p.m. - 7:00 p.m. thru 11:00 p.m.	Number	
I-7 Type of Vehicles Involved in Accidents	Type - Unknown - Small Car - Big Car - Pick-Up - Motorcycle - Truck - Bus - Construction Vehicle - Bicycle	Number	

Title/Date/Source	Row Labels	Column Headings	Notes
I-8 Property Damage in Motor Vehicle Accidents	Extent of Property Damage - Unknown - 0 thru \$900 in Increments of \$300 - \$900 thru \$1,500 - \$1,500 thru \$2,000 - Over \$2,000	Number of Accidents	
I-9 Accident Locations by Land Use	Land Use - Unknown - Open Country - Industrial - Business - Residential - School	Number of Accidents	
I-10 Light Conditions	Light Condition - Unknown - Daylight - Dawn - Dusk - Dark	Number of Accidents	
II Driver at Fault Information (Consists of 3 Separate Tables)			
II-1 Age, Sex and Ethnic Origin of Driver at Fault	Age - Unknown - Less than 20 - 20 thru 74 in Increments of 5 Years Sex - Female - Male Ethnic Origin - Unknown - Guamanian - Statesider - Filipino - Korean - Japanese - Other Residential - Micronesian - Other	Number	

Title/Date/Source	Row Labels	Column Headings	Notes
II-2 Citations	Selected Citation Type - Speeding - Improper Backing - Improper Change of Lanes - Right of Way Violation - Drunk Driving - Fail to Yield - Following Too Close	Number Issued (Includes Warnings)	
II-3 Vehicle Type Driven by Driver at Fault	Vehicle Type - Small Car - Big Car - Pick Up - Motorcycle - Truck - Bus - Construction Vehicle - Bicycle	Number	
III High Accident Locations	Road Segments - Marine Drive, from Rt. 8 to Agana-Tamuning Boundary - Marine Drive, from Agana-Tamuning Boundary to Camp Watkins - Marine Drive, from Hospital Road to Airport Road - Marine Drive from Camp Watkins to Hospital Road (Above 4 Categories are each broken down into:) - Total Accidents - Average Dollar Damage - Injuries - Pedestrian Accidents - Wet Road Accidents - Accidents Occurring at Night - Injury Accidents - Rear End Collisions - Head On Collisions - Side Swipe Collisions	Accident Number	

Title/Date/Source	Row Labels	Column Headings	Notes
	- Other High Accident Location - Marine Drive from JFK Road to San Victores Road - Rt. 4 from Pago Bridge to Rt. 17 - Marine Drive, from Fonte Bridge to Agana Loop - Marine Drive from Atantano Bridge to Rt. 6 - Marine Drive from Airport Road to JFK - Marine Drive from Rt. 3 to Harmon Loop Road - Rt. 8 from Rt. 1 to East O'Brien - Rt. 14 from JFK Road to Rt.1 Accidents on Local Streets - Agana Local Streets - Tamuning Local Streets - Dededo Local Streets - Mangilao Local Streets (Above 4 Categories are each broken down into:) - Total Accidents - Average Dollar Damage - Injuries - Accident Involving Pedestrian Injury - Collision with Fixed Object - Wet Road Accidents - Accidents Occuring at Night - Accidents in Business Area - Accidents in Residential Area - Accidents on Sharp Curves - Accidents with Injury - Rear End Collisions - Head On Collisions - Side Swipe Collisions		

Title: Functional Analysis Report

Source Agency: DPS Record Section

Computerized: See Below Computer Reference: _____

General Information: TRN 5

Information Contained on the Document

This report contains a detailed description of the record-keeping function related to traffic records carried out by various GovGuam Agencies. As the proposed traffic record information system is implimented, some of the procedures documented in this report will change. The eight relevant section are as follows:

Section	Contents	GovGuam Agency	Currently Computerized
3	Drivers	Revenue and Taxation Driver Licensing Branch	No
4	Vehicles	Revenue and Taxation Vehicle Registration Branch	Yes. For detail, see TRN Detail 29
5	Law Enforcement and Adjudication	DPS Traffic Court	No
6	Traffic Accidents	DPS Records Section DPW Planning Division	Yes. For detail, see TRN Detail 27
7	Roadway Characteristics	DPW Planning Division Highway Engineering Division Highway Maintenance Division	Partially. Street inventory of major island roadways. For detail, see TRN Detail 28
8	Emergency Medical Services	DPS	No
9	Educational Services	DOE	No
10	Safety Program Management	DPW Office of Highway Safety	No

Title: Comprehensive Highway Safety Plan, 1976-1977

Source Agency: Office of Highway Safety-Public Works

Computerized: Yes Computer Reference: TRN Detail 27

General Information: TRN 5

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table 2.3 Marginal Per Vehicle Highway Safety Indices of Guam and the Mainland U.S.	Index Per One Thousand Registered Vehicles - Fatalities - Injuries - Accidents	Guam Average 1964 thru 1973 Mainland U.S. 1973	
Table 2.4 Marginal Per Mile Highway Safety Indices of Guam and the Mainland, U.S.	Index Per 10 ⁸ Miles - Fatalities - Injuries - Accidents	Guam Average 1964 thru 1973 Mainland, U.S. 1973	
Figures 2-3, 2-4 and 2-5 are Graphs Showing Annual Injury, Fatality and Accident Rates on Guam Versus Numbers of Regis- tered Motor Vehicles (1964-1974). Row Labels and Column Headings are the same for each.	Number of Injuries Per Year	Thousand of Vehicles Registered	
Table 2.5 Comparison of Safety Indices for Guam with the U.S.	Index - Fatalities/Injuries - Fatalities + Injuries Per Accident - Accidents with Fata- lity or Injury Per Accident - Fatalities + Injuries Per Injury Accident	Guam Average 1963 thru 1973 U.S. 1973	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 2.6 Percentage Distribution of Accident Types (Based on Stratified Sample)	Type of Accident - Collision with: - Pedestrian - Other Motor Vehicle - Fixed Object - Animal - Bicycle - Non Collision - Ran Off Road - Overturned - Other - Total Total Number of Acci- dents	Accidents with Fatalities - Guam - U.S. Accidents with Non-Fatal Injuries - Guam All Accidents - Guam - U.S.	6
Table 2.7 Sample Distribution of All Accidents By Reported Light Condition (Guam) (Percentage Distribution)	Index - Daylight - Dawn - Dusk - Darkness Total Number of Accidents	Accidents with Fatalities - 1972 thru 1974 Accidents with Non-Fatal Injuries - 1974 All Accidents - 1974	
Table 2.8 Sample Distribution of All Accidents By Time of Day (Guam) (Percentage Distribution)	Index - Time of Day in 4 Hour Increments Beginning at 11:00 p.m. Total Number of Accidents	Accidents with Fatalities - 1972 thru 1974 Accidents with Non-Fatal Injuries - 1974 All Accidents	7
Figure 2-7 and 2-8 Graphs Showing a Sample Percentage Distribution of Injury Accidents by Time of Day. Non-Fatal 1974 and Fatal 1972-1974	Percentage	Time of Day in 4 Hour Increments Beginning at 11:00 p.m.	
Table 2.9 Distribution of Accidents by Road Conditions	Index - Fatal Accidents Guam (1972 thru 1974) - Fatal Accidents U.S. (1973) - Injury Accidents Guam (1974) - Injury Accidents U.S. (1973) - All Accidents Guam (1974) - All Accidents U.S. (1973)	Percent Dry Percent Wet Number of Accidents	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 2.10 Age Distribution of Drivers Involved in Accidents (Guam). (Percentage Distribution)	Age Group - Under 20 - 20 thru 74 in Increments of 5 Years - 75 and Over Total Number of Drivers in Sample	Fatal Accidents 1972 thru 1974 Non-Fatal Injury Accidents 1974 All Accidents 1974	1
Figures 2-9 and 2-10 Graphs Showing Age of Driver in <u>All Accidents</u> and in <u>Fatal Accidents</u> , Guam Versus U.S. (Percent Distribution)	Percent of Drivers	Age of Driver in Increments of 5 Years	6
Table 2.11 Distribution of Guam Adult Population Versus U.S. Driver Population (Percent Distribution)	Age Group - 16 thru 74 in Increments of 5 Years - Over 74	1970 Guam Adult Population 1973 U.S. Adult Population	8
Table 2.12 Distribution of Accidents by Ethnic Origin of Driver (Percent Distribution)	Ethnic Origin - Guamanian - Caucasian - Filipino - Oriental - Micronesian - Other Number of Drivers in Sample	Fatal Accidents 1972 thru 1974 Injury Accidents 1974 All Accidents 1974 Population Distribution 1970 Census	
Table 2.13 Reported Drinking Condition for Pedestrians and Drivers in Pedestrian Accidents 1974 (Percent Distribution)	Condition - Had Not Been Drinking - Drunk - Drinking but Ability Not Impaired - Drinking But Impairment Not Known Total Number of Reports	Pedestrian Driver	
Figure 2-11 Graph Showing Pedestrian Fatality Rates by Age Group, Guam and U.S.	Rate Per 100,000 Population in Each Age Group	Age Group	

Title/Date/Source	Row Labels	Column Headings	Notes
Table 2.14 Pedestrian Fatalities By Age Group and Time of Day 1971-1974	Age Group - 0 thru 4 - 5 thru 64 in Increments of 10 Years Total Number	Day Night Total Number	
Table 2.15 Motorcycle Accidents By Type of Accident	Type of Accident - Collision with Motor Vehicle - Other Collision - Ran Off Roadway - Overturned Total Number	Number of Accidents Number of Injuries	
Table 2.16 Road Character and Type of Accident for Motorcycle Accidents	Road Character - Straight - Sharp Curves - Other Curves - Level Road - Hill Total Accidents	Type of Accident - Collision - Ran Off Roadway - Overturned Total Accidents	
Figure 2-12 The Ten Control Sections with the Highest Accident Rates Per Mile in 1974	Map of Guam Showing Control Segments with Accident Rate Per Mile		
Figure 2-13 The Ten Intersections and Bridges with the Most Accidents in 1974	Map of Guam Showing the Projected Number of Accidents		
Table 2.17 Directional Distribution of Sampled Accidents 1974 (Percentage Distribution)	Type - Rear End Collision - Run Off Road without Second Vehicle Involvement - Collision at Intersection (Not Rear End) - Disobeying Stop Sign or Traffic Signal - Other Right of Way Problem - Passing in Intersection - Improper Lane Usage During Turn - Other Right of Way, Non-Intersection	Guam 1974 U.S. 1973	9

Title/Date/Source	Row Labels	Column Headings	Notes
	- One Vehicle Entering Highway - One Way Vehicle Turning Left into Private Area - Lane Related, Non-Intersection - Improper Lane Usage with Head On Collision - Side Swipe while Changing Lanes, Same Direction of Travel - Improper Backing or Starting - Miscellaneous - Equipment Failure - Drunk Driving, No Other Vehicle Involved - Hit Run, with Parked Vehicle - Reckless Driving, No Other Vehicle - Unattended Vehicle Rolling - Other - Insufficient Data		
Table 2.18 Directional Distribution of Sampled Accidents Wet Versus Dry Roads (1974) (Percent Distribution)	Accident Type - Rear End Collision - Run Off Road, No Second Vehicle - Collision at Intersection - Other Right of Way - Lane Related, Non-Intersection - Head On Collision - Side Swipe, Same Direction - Improper Backing or Starting - Miscellaneous	Wet Dry	

Title/Date/Source	Row Labels	Column Headings	Notes
2.19 Directional Component Distribution of Fatal Accidents (1972-1974)	Type - Rear End Collision - Run Off Road and/or Fixed Object - Intersection Collision, Not Rear End - Other Right of Way, Non-Intersection - Lane-Related Non-Intersection - Head On - Side Swipe - Pedestrian - Bicycle - Other - Total	Number of Fatal Accidents Per 10 ⁸ Vehicle Mile - Guam - U.S. (1973) Ratio (Guam/U.S.)	

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

6 - Guam - 1972-1974
U.S. - 1973

7 - Totals do not agree because light condition was not always reported on the Accident Report forms.

8 - Driver Age Distribution was not available. The number of people in the adult population of Guam was taken from the 1970 Census of population and put on a comparable basis with the U.S. Driver population taken from Accident Facts (1974 edition).

9 - Parking Lot Accidents not included.

Title: Reports Submitted to U.S. Department of Transportation, Federal Highway Administration
on Drivers Licensing, Vehicle Registration and Other Motor Vehicle Tax Receipts
Source Agency: U.S. Department of Transportation, Bureau of Public Roads
Computerized: No Computer Reference: _____
General Information: TRN 5

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
State Drivers Licenses and Fees			
Section I Kinds of Permits and/or Licenses	Kinds of Permits and/or Licenses - Learners' Licenses - Drivers' Licenses - Original - Renewal - Duplicates (All Kinds) - Miscellaneous - Examination Fees - Delinquent Fees - Penalty Fees - Service Charges - Total	Term for Which Issued Renewal Date Number of Licenses Issued in Calendar Year Fees Per Issue Total Collections	
Section II Net Numbers of Licenses in Force	Age Groups - Junior Licenses - Regular Licenses - 16 Years thru 24 Years - 25 thru 69 in Increments of 5 Years - 70 and Over - Total - Total Junior Licenses Plus Regular Licenses	License Class Total All Classes (Above 2 Categories are each broken down into:) - Male - Female - Total	
Section III Worksheets	Licenses By Age Groups - Junior Licenses - Regular Licenses - 16 Years thru 24 Years - 25 Years thru 69 Years in Increments of 5 Years - Total - Total Junior Licenses Plus Regular Licenses	License Class - Male - Female (Above 2 Categories are each broken down into:) - Total Issued During Year Term - Deductions - Net Licenses in Force - Total Licenses in Force (Specify Type of Class)	

Title/Date/Source	Row Labels	Column Headings	Notes
Receipts From State Taxation of Motor Vehicles Operated for Hire and Other Motor Carriers	Type of Vehicle and Class of Service - Passenger Cars for Hire - Taxicabs - Livery Cars, U-Drive-It Cars, etc. - Total Cars for Hire - Motor Buses - Common Carriers, Rural Or Inter-urban - Common Carriers, Urban Service (Above 2 Categories are each broken down into:) - Intrastate - Interstate - Total - Total Common Carriers - Other Motor-Carrier Buses - Sightseeing - Contract Carriers - Other Classes (Specify) - Total - Total Motor-Carrier Buses - Total Passenger Motor Carriers (Passenger Cars for Hire Plus Motor Buses) - Motor Trucks - Tractor Trucks, Road Tractors, etc. - Trailers and Semi-Trailers (Above 3 Categories are each broken down into:) - Common Carriers - Intrastate - Interstate - Total - Other For Hire Carriers - Contract Carriers - Other Classes (Specify) - Total - Private Motor Carriers	State Registration Class Number of Carriers Registered	

Title/Date/Source	Row Labels	Column Headings	Notes
	- Total Motor-Carriers Truck or Tractors - Total Freight Motor Carriers (Motor Trucks Plus Tractor Trucks, Road Trucks Plus Trailers and Semi-Trailers) - Total Carriers - Total Freight Carriers Plus Total Passenger Motor Carriers		
State Motor Vehicle Registrations, Registration Fees, and Miscellaneous Receipts			
<u>Section I</u> Registration of Motor Vehicles, Trailers, etc. Classified by Type of Vehicle	Type of Vehicle - Passenger Motor Vehicle - Passenger Automobiles - Station Wagons - Taxicabs - Rentals, Liveries, etc. - Ambulances and Hearses - Total - Buses - Commercial Buses - Gasoline - Commercial Buses - Diesel and Other - School and Other - Total - Freight Motor Vehicles - Farm Trucks - Trucks (Other Than "Farm" Registration) - Tractor Trucks, Road Tractors, etc) (Above 2 Categories are each broken down into:) - Gasoline - Diesel and Other - Total - Total Freight Motor Vehicles (Farm Trucks, Trucks and Tractor Trucks)	<u>Section I</u> Total License Tags Sold or Issued Deductions - Transfer Tags or Registrations - Non Resident Tags - Official Vehicles - State County, and Municipal - Federal Net Licenses Sold for Private and Commercial Vehicles	
<u>Section II</u> Registration Fees Paid Be Motor Vehicles, Trailers, Etc. Classified By Type Of Vehicle.		<u>Section II</u> Gross Collections Including Transfer or Registration Fees Deductions - Transfer or Registration Fees - Non Resident Tag Fees - Fees for Official Vehicles, State, County, and Municipal Net Regular Registration Fees Collected	

Title/Date/Source	Row Labels	Column Headings	Notes
	- Total Passenger and Freight Motor Vehicles (Passenger Motor Vehicles Plus Buses Plus Freight Motor Vehicles) - Other Vehicles - Trailers and Semi-Trailers - Commercial Trailers - Commercial Semi-Trailers - House Trailers - Farm Trailers and Camp Trailers - Total - Motorcycles (Do Not Include Side Cars) - Motor Bicycles and Scooters - Miscellaneous Motorized Equipment - Total Other Vehicles - Grand Total (Total Passenger and Freight Motor Vehicles Plus Other Vehicles)		
<u>Section III</u> Receipts Other Than Regular Registration Fees	Dealers' Licenses or Permits - New and Used Motor Vehicles - Dealers' Business Licenses or Permits - Original Sets of Plates - Additional or Extra Sets of Plates - Motorcycle Plates - Total Certificates of Title (New and Transfer) Fines and Penalties Transfer or Reregistration Fee Estimated Service Charges, Local Collections Caravan Fees Miscellaneous Receipts - Non Resident Tag Fee	Number Issued Collections (Dollar Amount)	

Title/Date/Source	Row Labels	Column Headings	Notes
	- Other Temporary Entry Permits - Fees for Official Cars - Duplicates of all Kinds - Vehicle Inspection Fees - Total - Total All Receipts		
Section IV Grand Total	All Receipts	Number Issued Collections (In Dollar Amounts)	

Title: Reports Submitted to U.S. Department of Transportation, FHA on Motor - Fuel Consumption

Source Agency: _____

Computerized: No Computer Reference: _____

General Information: TRN 5

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Motor - Fuel Consumption	Month of Consumption - January thru December - Total	Gross Gallons Reported Allowances for Shrink- age and Other Losses Gallons Exempted from Taxation Gross Gallons Taxed Gallons Subject to Re- fund Net Gallons Taxed	
State Motor - Fuel Tax Receipts	Receipts for Calendar Year - Gallonage Tax Collec- tions - Gross Collections by Distributors - Less Refunds - Gross Receipts by State - Less Refunds Paid - All Other Receipts Under Motor - Fuel Tax Laws - Distributors and Dealers Licenses - Motor - Fuel Inspection Fees - Fines and Penal- ties - Total - Net Total Receipts	Receipts by Fuel Type Gallonage Taxes - Gasoline - Special Fuels Other Receipts Total	

Reports Submitted to U.S. Department of Transportation Federal Highway
Title: Administration on Roadway Expenditure

TRN Detail 15

Source Agency: Department of Public Works

Computerized: No Computer Reference:

General Information: TRN 5

Information Contained on the Document

LOCAL ROAD AND STREET FINANCE REPORT

A. Amounts of Receipts for Road and Street Purposes.

1. Receipts From Local Sources: Property Taxes and Special Assessments; General Fund Appropriations; Local Road-User Taxes - motor fuel taxes, registration fees, etc, parking funds, road and crossing tolls; Other Local Receipts - income or investments of debt reserves, from indirect street funds, traffic fines, sales tax, other (specify); Receipts From Other Local Governments - from counties, from townships, from municipalities, other (specify); Total.
2. Receipts From State Government: Motor Fuel Taxes; Registration and Operators Fees, Carrier Taxes, Etc.; Unclassified Payments From State Highway Funds; State General Funds; Other (specify); Total
3. Receipts From Federal Government: Specify (does not include Federal-Aid highway funds); Total.
4. Proceeds of Sale of Bonds and Notes: Bonds and Notes - par value, premium (+) or discount (-); subtotal; Total.
5. Total Receipts: 1 thru 4.
6. Balances at Beginning of Year: Capital and Operating Funds; Debt and Sinking Funds; Total.
7. Total Funds Available: 5 plus 6.

B. Disbursements for Road and Street Purposes:

1. Direct Highway Disbursements: Capital Outlay - on state highways, on county or township roads, on municipal streets (specify amounts for the previous three categories - right of way, engineering, construction, subtotal), total; Maintenance - on state highways, on county or township roads, on municipal streets (specify amounts for the previous three categories - maintenance of condition, snow and ice removal, traffic services, subtotal), total; Highway Equipment (undistributed); General Administration and Engineering; Highway and Traffic Police; Other - specify; Total.
2. Payments to Other Governments: To State For Matching Federal-Aid and Other Purposes - for state highways, for local roads and streets, subtotal; To Counties; To Townships; To Municipalities; To Other (specify); Total.

3. Debt Service on Local Obligations: Bonds and Notes - interest (including paying fees, redemption at par, redemption premium (+) or discount (-) subtotal): Total.
4. Disbursements and Transfers for: Non Highway Purposes; Parking and Indirect Street Functions.
5. Total Disbursements During Year.
6. Balances at End of Year: Capital and Operating Funds; Department and Sinking Funds; Total.
7. Total Funds Accounted for (5+6).

C. Change on Local Highway Debt Status During Year (Specify Bonds and Notes)

1. Opening Debt.
2. Issues: Original; Refunding; Total.
3. Redemptions: Current Funds; Refunding; Total.
4. Closing Debt.

D. Local Parking And Indirect Street Functions (specify):

Parking Facilities; Indirect Street Function - street cleaning, street lighting, side walks, storm sewer and drainage, total.

1. Receipts: Property Taxes and Special Assessments; General Fund; Parking Meter and Permit Fees; Borrowing - bonds, notes, transfers from (state highway user funds, parking funds, federal funds, other - specify); Other - specify; Total Receipts.
2. Balances, beginning of Year (all funds).
3. Total funds Available.
4. Disbursements: Capital Outlay; Maintenance and Operation; Administration; Bond Interest and Financing Costs; Note Interest and Financing Costs; Bond Redemption - note redemption; Transfers To - road and street funds, indirect street funds, general fund, other (specify); Other; Total Disbursements.
5. Balances, End of Year.
6. Total Funds Accounted For.
7. Change in Indebtedness Parking Facilities: Outstanding Beginning Of Year; Issued During Year - original issues, funding or refunding issues; Redeemed During Year - from revenues or reserves, from funding or refunding issues; Outstanding End Of Year): Bonds; Notes.

Title/Date/Source	Row Labels	Column Headings	Notes
Capital Outlay By State Highway Departments	Items - On State Systems - Right Of Way - Engineering - Construction - Total - On Local Roads and Streets - On County and Township Roads - On Local City Streets - On Other Roads - Total Capital Outlay	Interstate System - Rural - Urban Other Federal-Aid Rural System - Rural System Primary - Rural Secondary Other Federal-Aid Urban System - Urban Extension - Urban Roads and Streets Not On Federal Systems Total	

State Highway Expenditures

1. CAPITAL OUTLAY ON STATE SYSTEMS - On Rural State Highways (state primary, state secondary), On Municipal Extensions Of State Systems, Total: Cost Of Acquiring Right-Of-Way; Preliminary and Construction Engineering; Construction Of Roads; Construction Of Major Structures; Installation Of Traffic Service Facilities; Total.
2. MAINTENANCE OF STATE SYSTEMS - On Rural State Highways (state primary, state secondary), On Municipal Extensions Of State Systems, Total: Maintenance Of Condition - roads; Maintenance Of Condition - structures; Snow Removal, Sanding, Etc.; Traffic Control and Service Facilities; Operation Of Toll Roads Or Crossings; Unusual Or Disaster Maintenance; Total.
3. GENERAL ADMINISTRATION FOR STATE HIGHWAYS : General Administration and Engineering; Highway Planning and Research; Highway Beautification; Miscellaneous.
4. LAW ENFORCEMENT AND SAFETY: Traffic Supervision; Highway and Traffic Safety; Driver Education; Vehicle Inspection; Vehicle Size and Weight Enforcement; Other; Total.
5. EXPENDITURES ON LOCAL ROADS AND STREETS - On County and Township Roads, On Local Municipal Streets: Capital Outlay; Maintenance; Administration; Total.
6. EXPENDITURES ON OTHER STATE ROADS (Specify Roads): Capital Outlay; Maintenance; Total.

Title: Report on Statewide Mileage, Travel, and Non Fatal and Fatal Injury Accidents

Source Agency: Department of Public Works

Computerized: No

Computer Reference: _____

General Information: TRN 5

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table TA-1 Statewide Mileage, Travel, and Non Fatal and Fatal Injury Accidents	High System - Interstate Final - Traveled Way Interstate - Subtotal Final and Traveled Way Interstate - Other FAP - Subtotal Other FAP and Traveled Interstate - Subtotal All FAP - FAS State - FAS Local - FA - Other State - Subtotal All State - Local - Subtotal Non-State - Subtotal Non-FA - Total (Above 15 Categories are each broken down into:) - Urban - Rural - Subtotal Related Data - Vehicles Registered (Thousands) - Annual Miles Per Vehicle - Motor Fuel (Million Gallons) - Gallons Per Vehicle - Miles Traveled Per Vehicle	Road Mileage and Travel - Roads and Streets in Service - Miles - Percent - Usage - Annual Vehicle Miles - Millions - Percent - Daily Vehicle-Miles Per Mile Fatal Accidents - Accidents - Fatalities (Above 2 Categories are each broken down into:) - Number - Per 10 ⁸ V-M Non Fatal Injury Accidents All Non Fatal Injuries From Fatal and Non Fatal Accidents (Above 2 Categories are each broken down into:) - Number - Per 10 ⁸ V-M Annual Vehicle-Miles (Millions)	

Title/Date/Source	Row Labels	Column Headings	Notes
	- Population (Thousands) - Licensed Drivers (Thousands) - Licensed Drivers (Percent Population) - Persons Per Vehicle - Licensed Drivers Per Vehicle - Annual Travel Per Capita (Miles) - Travel Per Licensed Driver (Miles)		
	Rates - Per 100 Million Vehicle-Miles - Per Thousand Vehicles - Per Thousand Population - Per Thousand Licensed Drivers	Fatal Accidents - Number of Accidents - Number of Fatalities Number of Non Fatal Injury Accidents Number of All Non Fatal Injuries and Fatal and Non Fatal Accidents	

Title: Report Submitted to U.S. Dept. of Transportation, Federal Highway Administration
 on Miles of Roadway by Type
 Source Agency: Department of Labor
 Computerized: No Computer Reference:
 General Information: TRN 5

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Existing Surfaced Mileage by Type, Width and Average Daily Traffic	Surface Type - Low Type - D, E - Intermediate Type - F, G-1, H-1 - High Type - G-2, H-2, I, J, K, L (Above 3 Categories are each broken down into:) - Surface Width (Feet) - 19 and Under - 20 thru 21 - 22 thru 23 - 24 thru 26 - 27 thru 35 - 36 thru 43 - 44 thru 47 - 48 and Over - Total - Total Miles	Average Daily Traffic - Under 400 - 400 thru 999 - 1,000 thru 4,999 in Increments of 1,000 - 5,000 thru 19,999 in Increments of 5,000 - 20,000 thru 39,999 in Increments of 10,000 - 40,000 and Over - Total	
Existing Mileage of Surfaced Highways by Traffic Lanes and Access Control	Traffic Lanes - 3 Traffic Lanes - Surface Width (Feet) - 27 thru 35 - 36 and Over - Total Miles - One-Way Streets - Surface Width (Feet) - 31 and Over - 32 thru 37 - 38 thru 43 - 44 thru 47 - 48 and Over - Total Miles - Undivided-4 or More Traffic Lanes - Divided 4 or More Traffic Lanes with No Control of Access	Average Daily Traffic - Under 400 - 400 thru 999 - 1,000 thru 4,999 in Increments of 1,000 - 5,000 thru 14,999 in Increments of 5,000 - 20,000 thru 39,999 in Increments of 10,000 - 40,000 and Over - Total	

Title/Date/Source	Row Labels	Column Headings	Notes
Summary of Existing State and Local Roads and Streets (Segregated According to Federal Aid and Non Federal Aid System Mileage)	- Divided 4 or More Traffic Lanes with Partial Control of Access - Divided 4 or More Traffic Lanes with Full Control of Access (Above 4 Categories are each broken down into:) - Surface Width (Feet) - 43 and Over - 44 thru 47 - 48 and Over - Total Miles - Total Miles		
	Road System - State Primary Highway System - State Secondary Highway System - Local Roads Under State Control (Above 3 Categories are each broken down into:) - Rural - Municipal - 5,000 and Over - Municipal - Under 5,000 - Country Roads - Rural - Town and Township Roads - Rural - Local City Streets - Mileage Not Included with the Road and Street Systems Classified Above - State Park, Forest, and Reservation Roads - National Park, Forest, and Reservation Roads - Toll Roads, Bridges, and Tunnels - Other Roads Under State Control - Other Roads Under Local Control - Total Existing Mileage		

Title: System Mileage ReportSource Agency: Manuel for the Compilation and Reporting of Highway MileageComputerized: No Computer Reference: _____General Information: TRN 5

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
System Mileage Report	Road - Type	Mileage Existing at Beginning of Year Number of Changes Due to Revisions or Transfers Mileage Abandoned Changes Resulting from Construction - Total Mileage Built - Mileage of Surface Types Replaced or Preferred - Net Change - Total Net Change in Mileage - Mileage Existing at End of Year	6
NOTES: 6. For definition of road types - refer to the "Manuel for the Compilation and Reporting of Highway Mileage."			

Title: Territorial Highway Study: Guam, American Samoa, Virgin Islands

Source Agency: U.S. Department of Transportation

Computerized: No Computer Reference:

General Information: TRN 6

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 1 Roads of Guam - Width of Roadways	Map of Guam Showing - 4 Travel Lanes - 3 Travel Lanes - 2 Travel Lanes		1
Figure 4 Population Distribution- Civilian and Military	Map of Guam Showing Population Distribution - One Dot Represents 50 Persons		1
Figure 5 Roads of Guam - Traffic Flow; 1968	Map of Guam Showing Average Hourly Traffic Flow 6-9 A.M. and 4-6 P.M. - 1,600 to 2,000 Cars - 1,200 to 1,600 Cars - 800 to 1,200 Cars - 400 to 800 Cars - 200 to 400 Cars - 0 to 200 Cars		1
Figure 6 Roads of Guam - Maintenance Responsibility	Map of Guam Showing - Gov/Guam Maintenance - Air Force Maintenance - Navy Maintenance		1
Figure 7 Roads of Guam - Right of Way Ownership	Map of Guam Showing - Federal Ownership - Federal Ownership (Military Reservation) - Gov/Guam Ownership - Private Ownership or Undetermined		1

Title/Date/Source	Row Labels	Column Headings	Notes
Figure 8 Roads of Guam - Highway Network	Map of Guam Showing All Publicly Traveled Ways - 19 Districts - Naval Station - N.A.S. - N.C.S. - Andersen Air Force		1
Figure 9 Roads of Guam - Transfer of Ownership	Map of Guam Showing Acceptability of Roads for Transfer of Ownership From U.S. Navy to Gov/Guam - Acceptable as is (Included in 1959 List) - Acceptable as is (Not Included in 1959 List) - Acceptable When Repaired - Not Necessary for Public Use - Portions of Network Involved		1
Figure 11 Roads of Guam - Lane Widths Planned for Year 1980	Map of Guam Showing Extensions of Lane Widths - 4 Lanes Divided - 4 Lanes - 2 Lanes - New Routes		1
Figure 12 Government of Guam's Projection of Civilian Population	Graph Showing Population (Thousands) - Total Population - Civilian Population - Stateside Military or Civilian Personnel Employed at Military Base and Their Dependents	Year - 1960 thru 1980 in Increments of 5 Years	1
Figure 13 Motor Vehicle Registration Projection	Graph Showing Motor Vehicle Registration (Thousands) - Federal or Territorial Vehicles - Motorcycles	Year - 1960 thru 1980 in Increments of 5 Years	1
NOTES:			

Notes 1 thru 5 are standard notes, refer to introduction.

Title: Master Plan for Guam International Air Terminal

Source Agency: Mackinlay/Winnacker, A.I.A. & Associates; The Richardson Associates;
Austin, Smith & Associates; Harding, Miller, Lawson & Associates

Computerized: No Computer Reference: _____

General Information: TRN 7

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Appendix B, No. 1 Annual Revenue Cargo Volumes Guam International Airport; Jan. 1971; ERC, Dept. of Commerce	Year - 1963 thru 1969	Total Air Cargo (Freight and Mail) in pounds - Onloaded - Off Loaded - Total	
Appendix B, No. 2 Annual Passenger Volumes Guam International Airport; Jan. 1971; ERC, Dept. of Commerce	Year - 1962 thru 1969	Enplaning Passengers Deplaning Passengers Total Passengers	
Appendix B, No. 3 Aircraft Types, Jan. 1971; ERC, Dept. of Commerce	Commercial Aircraft Presently Flying Into and Out of Guam International Airport - Pan American World Airways - TransWorld Airlines - Air Micronesia - Japan Airlines	Type - 13-707-320 - 13-707-320 - DC-6 and B-727 - DC-8-61, 62 and 63	
Appendix B, No. 4 Hotel Accommodation; (Number of Hotel Rooms Existing, Under Construction and Planned on the Island of Guam; 1971; Dept. of Commerce ERC	Hotel - Fujita - Tokyu - Continental - Hilton - Dai-Ichi - Okura - Cliff - Guamerica - Casa De Flores - Earl's Hut - Micronesian - Sunset - Others Totals Sum Total	Existing Under Construction Planned	

Title/Date/Source	Row Labels	Column Headings	Notes
Section IV A Annual Passenger Volume Forecasts (Graph); 1970; ERC, Dept. of Commerce	Number of Passenger Per Year - 0 thru 3,000,000 in Increments of 500,000	Year - 1965 thru 1985 in Increments of 5 Years	
Section IV B Arriving Passengers - Trip Purpose (Graph); 1970; ERC, Dept. of Commerce	Number of Arriving Passengers Per Year - 0 thru 800,000 in Increments of 100,000	Year - 1965 thru 1985 in Increments of 5 Years	
Section IV D Annual Air Cargo Volume Forecasts (Graph); 1970; ERC, Dept. of Commerce	Revenue Cargo in Millions of Pounds Onloaded and Offloaded - 0 thru 22 in Increments of 2	Year - 1965 thru 1985 in Increments of 5 Years	
Section IV E Parking Space Forecasts (Graph); 1970; ERC, Dept. of Commerce	Number of Parking Spaces - 0 thru 1,300 in Increments of 100	Year - 1970 thru 1985 in Increments of 5 Years	

Title: Monthly Passenger and Freight Summary Report
Source Agency: Department of Commerce
Computerized: No Computer Reference: _____
General Information: TRN 7

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Arrivals	Tenant - Pan American Airways - Aviation Service - Japan Airlines - Continental Airlines - Air Pacific International - Island Aviation, Inc. - Non-Tenant Airlines - Totals - Total this Period - Previous Total - Total to Date	Mail (lbs.) Off Cargo (lbs.) Off Revenue Paying Passengers Off Non-Revenue Paying Passengers Off Transit Paying Passengers	
Departures	Tenant - Pan American Airways - Aviation Service - Japan Airlines - Continental Airlines - Air Pacific International - Island Aviation, Inc. - Totals - Total this Period - Previous Total - Total to Date	Mail (lbs.) On Cargo (lbs.) On Revenue Paying Passengers On Non-Revenue Paying Passengers On	

Title: Monthly Operations of Guam International Air Terminal Summary Report
Source Agency: Department of Commerce
Computerized: No Computer Reference: _____
General Information: TRN 7

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Monthly Operations of Guam International Air Terminal	Passengers - Scheduled Airlines - Charter and Non-Scheduled Flights (Above 2 Categories are each broken down into:) - Departing - Arriving - Transit Number of Departures and Take Off Weights - Scheduled Airlines - Charter and Non-Scheduled Flights (Above 2 Categories are each broken down into:) - Passenger Carriers - Cargo Carriers - Take Off Weights (In 1,000 lbs.) Concession Operations - Food and Beverage - Gross Receipts of Concessionaire - Food - Beverage - Total Gross Receipts - Gross Receipts Per Departing Passenger - Revenue to the Terminal - Revenue Per Departing Passenger	Current Fiscal Year Last Fiscal Year (Above 2 Categories are each broken down into:) - This Month - Year to Date	5

Title/Date/Source	Row Labels	Column Headings	Notes
	- General Merchandise - Gross Receipts of Concessionaire - Taxable Merchandise - Non Taxable Merchandise - Total Gross Receipts - Gross Receipts Per Departing Passenger - Revenue to the Terminal - Taxable Merchandise - Non Taxable Merchandise - Total Revenue to the Terminal - Revenue Per Departing Passenger - Car Rental - Gross Receipts of Concessionaire - Gross Receipts Per Departing Passenger - Revenue to the Terminal - Revenue Per Departing Passenger		
	Operating Summary		
	- Revenue - Facilities and System Usage Charges - Concession Fees - Rentals - Space Rentals - Building Rentals - Ground Rentals - Total Rentals - Miscellaneous Operating Rentals - Total Revenue		

Title/Date/Source	Row Labels	Column Headings	Notes
	- Expense - Personal Services - Salaries and Wages - Employee Fringe Benefits - Total Personal Services - Contractual Services - Materials and Supplies - Total Expense - Net Operating Revenue		

NOTES:

Notes 1 thru 5 are standard notes, refer to introduction.

Title: Master Plan, Commercial Port of Guam, Phase 1

Source Agency: Prepared by Greenleaf/Telesca-Ahn

Computerized: No Computer Reference:

General Information: TRN 8

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Table A Civilian Population and Estimated Population Growth; Statistical Abstract Guam 1970, ERC, Dept. of Commerce	Year - 1961 thru 1990	Population	
Table B Civilian Population on Guam By Sex; Statistical Abstract Guam 1970, ERC, Dept. of Commerce	Year - FY1961 thru FY1969	Male Female Total	
Table C Revenue Cargo Handled; Manager, Commercial Port of Guam	Year - FY1963 thru FY1970	Thousand Tons Loaded Thousand Tons Unloaded Tons Per Person Unloaded Thousand Tons Trans-shipped Thousand Tons Total	1
Table D Surface Landings; Port Security Division, Dept. of Commerce	Year - FY1963 thru FY1970	United States Japan Inter-Island Other Countries Military Total	1

Title/Date/Source	Row Labels	Column Headings	Notes
Table E Shipping Statistics Maintained by Shipping Lines	Agent Lines - PFEL/PFEL - PFEL/Saipan Shipping - PFEL/Nauru - PFEL/GTPC - Seatrain/Seatrain - Atkins Kroll - Atkins Kroll/Mill - Hyundai/Korea Atlas - Pacific Navigation - Pacific Navigation/Marco Polo	Number of Ships Frequency Types of Cargo Tonnage on Guam/Mo. Tons to Trust Territory Number of Passengers	
Table F Surface Landings	Year - FY1963 thru FY1970	Surface Landings Total Population	
Table G Commercial Port Rates and Charges (Cost Per Revenue Ton)	Type - Basic - Inbound - Outbound - U.S. Mail - Copra/Trochus - Containerized Cargo - Empty Vans - Empty Drums - Vehicles to 3/4 Tons Capacity - Household Goods	Stevedoring Handling Trans-Shipments	
Table H Annual Gross Receipts By Business Sector Fiscal Years 1958-1969 (In Dollars); ERC, Dept. of Commerce, from Data Supplied by the Business Privilege Division, Dept. of Revenue and Taxation	Year - FY1958 thru FY1969	Amusement Service Manufacturing Wholesale Retail Total All Sectors	
Table J General Economy of Guam; Guam, 1970 - An Economy in Transition, Dept. of Commerce, Feb. 1971	Foreign Trade - Exports - Imports Construction - Residential - Commercial Utilities - Average Annual Consumption of Electricity Per Guam Household	Year - FY1960 - FY1968 thru FY1970	

Title/Date/Source	Row Labels	Column Headings	Notes
	- Total Volume of Electricity Sold on Guam - Water Consumption Government - Local - Revenue - Expenditure - Federal - Wages and Salaries Disbursed on Guam - Construction - Locally Purchased Supplies and Services - Employment - Communications - Telephone In Use - Transpacific Calls - Incoming - Outgoing - Finance (As of Dec. 31) - Bank Deposits - Bank Loans - Deposits of All Financial Institutions - Loans of All Financial Institutions - Life Insurance in Force (Ordinary as of Dec. 31) - Assessed Value of Real Property - Transportation - Guam/Trust Territory - Air Passengers - Air Cargo - Transpacific - Air Passengers - Air Cargo	Year - 1960 - 1967 thru 1969	
Total Business Gross Receipts (Graph)	Millions of Dollars - 60 to 300 in Increments of 20	Year - FY1961 thru FY1970	

Title/Date/Source	Row Labels	Column Headings	Notes
Gross Business Receipts - Percentage Distribution Fiscal Years 1961-1970 (Graph); Dept. of Commerce, ERC	Percentage of Gross Business Receipts - Retail - Contracting - Wholesale - Service and Amusement - Manufacturing	Year - FY1961 thru FY1970	
Foreign Trade - Imports and Exports, Fiscal Years 1961-1970 (Graph)	Millions of Dollars - From 10 to 60 in Increments of 10	Year - FY1961 thru FY1970	
Total Federal Disbursements on Guam, Fiscal Years - (Millions of Dollars)	Wages and Salaries Construction Locally Purchased Supplies	Year - FY1967 thru FY1970	
Territory of Guam Employment by Industry Division Sept. 30, 1970; Dept. of Labor, FY1971, Govt. of Guam	Industry Division - Agriculture - Mining - Construction - Manufacturing - Transportation, Electric, Communications, Gas, and Sanitary - Wholesale, Retail - Finance, Insurance, Real Estate - Service - Government - Federal - Local	Total Employment Male Female	
Table K Guam Weather Facts; Fleet Weather Central, U.S. Naval Forces Marianas	Month - January thru December	Average Temperature - Maximum - Minimum - Monthly Precipitation - Maximum - Minimum - Average	
Table L Arrivals, Dept. of Commerce, ERC, 1970	Year - 1964 thru 1975	Tourists Visitors Estimated Expenditure	

Title/Date/Source	Row Labels	Column Headings	Notes
Hotel-Motel Inventory; Dept. of Commerce	Hotel-Motel - Dai-Ichi - Continental Travel Lodge - Cliff Hotel - Fujita Hotel - Guam Tokyu Hotel - Hotel Micronesia - Guamerica - Sunset Motel - Sakura Motel - Casa de Flores - Airtel - Hotel Polynesia - Earl's Hut - Tony's Travel Lodge - Hotel HongKong - Guam Travel Service Hotels Proposed or Under Construction - Hilton - Okura - Kukuei - Village of Tropic Winds	Number of Persons	
Table M Motor Vehicle Registra- tion and Civilian Popula- tion; Licensing Division, Dept. of Revenue and Taxation - (Private Vehicles and Taxis Only), and Chief Commissioner's Office	Year - FY1963 thru FY1990	Private Vehicle Total Population Persons Per Vehicle	
Table N Motor Vehicle Registra- tion; ERC, Dept. of Commerce	Year - FY1963 thru FY1970	Private Taxi Cab Cargo Trailer Motorcycle Dealer Bus Special Equipment Military Total Vehicles	1

Title/Date/Source	Row Labels	Column Headings	Notes
Table O Motor Vegicle Gasoline Consumption; Statisti- cal Abstract, Guam 1970; ERC, Dept. of Commerce	Year - 1961 thru 1969	Gallons	
NOTES: Notes 1 thru 5 are standard notes, refer to introduction.			

Title: Commercial Port of Guam - Annual Report
 Source Agency: Commercial Port of Guam
 Computerized: No Computer Reference: _____
 General Information: TRN 8

Information Contained on the Document

These tables are untitled:

1. List of shipping lines organized by agent.
2. Cargo total by year: FY1957 thru FY1974
3. Number of ships calling the Commercial Port of Guam: FY1958 thru FY1974

Title: Monthly Ledger Tallies for Cargo Revenue Tons

Source Agency: Port Authority of Guam
 Computerized: No Computer Reference: _____
 General Information: TRN 8

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Cargo Revenue Tons	Name of Agent - Vessel Name and Voyage Date - Total - Fiscal Year to Date - Total All Agents - Total - Fiscal Year to Date - Total	Cargo Revenue Tons - Total - Imports - Exports - Transshipment - Breakbulk Cargo - Containerized Cargo (Above 2 categories are each broken down into: - Domestic - Foreign (Above 2 categories are each broken down into: - Imports - Exports - Transshipment	6

NOTES:

- 6 - Cargo Revenue Tons is a Measure Used for Computing Cost, Which Uses Either Cargo Weight or Volume, Whichever is Greater.

Title: Annual Ledger Tallies for Revenue TonsSource Agency: Port Authority of GuamComputerized: No Computer Reference: _____General Information: TRN 8

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Annual Revenue Tons by Ship	Name of Agent	Cargo Revenue Tons	6
	- Number of Voyages	- Total	7
	- Name of Ship	- Imports	8
	- Total for Agent	- Exports	
	Grand Total	- Transshipment	
		- Break Bulk Cargo	
		- Containerized Cargo	
		(Above 2 categories are each broken down into:)	
		- Domestic	
		- Foreign	
		(Above 2 categories are each broken down into:)	
		- Imports	
		- Exports	
		- Transshipment	

NOTES:

- 6 - Cargo Revenue Tons is a measure used for computing cost,
which uses either cargo weight or volume, whichever is greater.
- 7 - Domestic means to and from Hawaii and the Continental U.S..
- 8 - Foreign includes the Trust Territory and all points outside Hawaii
and the Continental U.S..

Title: Monthly Report on Ship Arrival and Cargo Revenue and TonnageSource Agency: Port Authority of GuamComputerized: No Computer Reference: _____General Information: TRN 8

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Monthly Report	Ship Arrivals	Current Month	
	- Containerized	Fiscal Year-To-Date	
	- Freight		
	- Cruiser (passenger)		
	- Others (non-cargo)		
	- Total		
	Cargo Revenue Tonnage		
	- Loaded		
	- Unloaded		
	- Transhipped		
	- Total		

Title: Container Report

Source Agency: Port Authority of Guam

Computerized: No Computer Reference: _____

General Information: TRN 8

Description of Table(s)

Title/Date/Source	Row Labels	Column Headings	Notes
Container Report	Container Vessels - Number of Containers Handled by: - Gantry Crane - Manitowac Crane - P and H Crane - Subtotal - Ships Gear - Grand Total (Above 6 Categories are each broken down into:) - Size of Container in Feet - 20 - 27 - 40 Non - Container Vessels - Number of Containers Handled by: - Gantry Crane - Manitowac Crane - P and H Crane - Grand Total (Above 4 Categories are each broken down into:) - Size of Container in Feet - 20 - 27 - 40	Current Month Fiscal Year to Date (Above 2 Categories are each broken down into:) - In - Out - Total	

Type of Information: Highway Accident Statistics; January 1975 to Present

Connected With:

Published Report ☒
 Survey Form ☐

Title: Accident Analysis Report

Data Available: On Cards

On Disk

X	80 Col
	96 Col

	5444
X	5445
	2311
	3311

Number of Records in File: 6,000

General Information: TRN 4

Detail Information: TRN Detail 10

FILE FORMAT

Positions	Contents	Notes
1 - 5	Control Section Number (physical location of accident)	
6 - 11	Case Number	
12 - 17	Date (month, day, year - MMDDYY)	
18	Day of week	
19 - 22	Time of day	
23	At intersection (yes, no)	
24	Type of accident	6
25 - 26	Collided with	
27	Ran off Roadway	
28	Overturned	
29 37	Type of vehicle	Position numbers refer to vehicle no. 1, then vehicle no. 2.
30 - 31 38 - 39	Age of vehicle	
32 - 33 40 - 41	Year of birth of driver	
34 42	Sex	
35 43	Race	
36 44	Military (yes, no)	
45	Type of vehicle, for vehicle no. 3	

NOTE:

6 For explanation categories, see the Detail reference page.

Positions	Contents	Notes
46 - 47	Age of vehicle, for vehicle no. 3	
48 - 51	Dollars worth of property damage	
52	Arrest made (yes, no)	
53	55 Driver had been drinking	Position numbers refer to vehicle no. 1, then vehicle no. 2.
54	56 Driver's physical condition	
57	Type of road surface	
58	Road condition	
59	Weather	
60	Light	
61	Locality	
62	Road defects	
63	Road character	
64	Number of people injured	
65	Number of people killed	
66	Type of collision	
67	Driver at fault	
68 - 71	Citation code	
72	GovGuam vehicle (yes, no)	

Type of Information: Street Inventory of Major Arterial Roadways

Connected With:

Published Report
Survey
Form

Title: _____

Data Available: On Cards

On Disk

X	80 Col
	96 Col

	5444
	5445
	2311
	3311

Number of Records in File: 170

General Information: TRN 5

Detail Information: TRN Detail 27

FILE FORMAT

Positions	Contents	Notes
CARD TYPE 1		
1 - 5	Control Segment Number	
6	"1"	
7	Federal Highway Classification: 1 = primary, 2 = secondary, 3 = local	
9	Municipal class: 1 = urban, 2 = rural	
11	Highway Classification: Trunk = 1, Major = 2, Minor = 3, Collector = 4, Local = 5	
13 - 14	Route Number	
15	Sub-class code: A = 1, B = 2, C = 3, . . .	
17 - 18	Municipality code - not standard	
20 - 24	Segment length in miles	
25 - 26	Width per lane (in feet)	
28	Number of lanes	
29	Lane control: Codes 1 - 6 on standard DOT codes, 7 = local 2 - lane road	
30	Surface type: Codes 1 - 3	
31 - 36	Average daily traffic	

Positions	Contents	Notes
CARD TYPE 2		
1 - 5	Control Segment Number	
6	"2"	
51 - 55	Number of accidents with a fatality	
56 - 60	Number of fatalities	
61 - 65	Number of accidents with an injury	
66 - 70	Number of people injured	
71 - 75	Number of accidents in total	

Type of Information: Vehicle Registration

Connected With:
Published Report
Survey Form

X

Title: _____

Data Available: On Cards On Disk

X	80 Col
	96 Col

	5444
	5445
X	2311
	3311

Number of Records in File: 60,000

General Information: TRN 5

Detail Information: TRN Detail 27

FILE FORMAT

Positions	Contents	Notes
4 - 8	License Number	
9 - 38	Registered Owner	
39	Year	
40 - 70	Legal Owner	
71 - 103	Owner Address	
104 - 105	Vehicle Code	
106 - 112	Vehicle Make	
113 - 114	Year	
115 - 116	Color	
117 - 118	Cylinders	
119 - 134	Vehicle Type	
135 - 149	Vehicle Engine Number	
150 - 153	Capacity	
154 - 156	Vehicle Weight	
157 - 159	Regular Amount	
160 - 161	AVF	
172 - 176	Registration Number	