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PREFACE

This report has been prepared in response to a legislative request to report on the policies and procedures employed by contracting departments in selecting architects, engineers, and related professionals (Part I), and to list the architects, structural engineers, landscape architects, and other related professionals retained by the State or by the primary architects or engineers during the period from statehood (August 21, 1959) to the present (June 30, 1962) (Part II).

Some problems were encountered in compiling the tabulation of contracts which appears in this report especially with respect to determining which contracts to include and which to exclude. Those contracts which are concerned primarily with the development, design, and installation of physical improvements or where the primary emphasis has been on engineering have been included; those that deal primarily with economic development, long-range planning or similar subjects have been excluded.

The Legislative Reference Bureau acknowledges with thanks the cooperation of those architects, engineers, and other professionals who furnished the Bureau with information about the contracts they had entered into with the State and to the State government officials and employees who completed Bureau questionnaires, made themselves available for interviews, and offered helpful suggestions and recommendations during the course of the study.

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PART I

POLICIES AND PROCEDURES FOLLOWED BY STATE AGENCIES IN SELECTING ARCHITECTS AND ENGINEERS

None of the state agencies which retain architects and engineers follows formal or written policies and procedures in selecting such professionals. Therefore, in order to report on the methods employed, questionnaires based on the selection policies and procedures recommended by professional architects and engineers were developed and submitted to the employing agencies. This part of the report is concerned with describing the policies and procedures recommended by the national professional associations and those which the state agencies report they are following.

The Existing Situation

Five agencies in the State government are concerned with contracting with architects, engineers, and related professionals: the Department of Accounting and General Services, the Department of Transportation, the Department of Land and Natural Resources, the University of Hawaii. and the Hawaii Housing Authority. None of these agencies has written, formal policies and procedures which govern the selection process nor is there a State-wide policy other than that implicit in the statutory provisions. 1 Some general guidelines, however, are provided for the Hawaii Housing Authority in the Low-Rent Housing Manual published by the United States Public Housing Administration of the Housing and Home Finance Agency. The pertinent sections of the manual appear in Appendix A of this report. Further, the procedures used by the Department of Transportation in evaluating the qualifications of prospective consultants were outlined in a letter from the Department to the federal Bureau of Public Roads. This letter appears in Appendix B.

¹A discussion of the relevant statutory provisions is to be found in University of Hawaii, Legislative Reference Bureau, <u>Governmental</u> Contracting and <u>Purchasing</u>, Request No. 9601 (Honolulu: 1962).

One agency noted that it had formal policies and procedures in that it followed the recommendations set forth in professional publications such as the Manual of Private Practice published by the American Society of Civil Engineers (ASCE) or the Handbook of Architectural Practice published by the American Institute of Architects (AIA). Generally, however, most contracting officials and employees felt that there were informal policies and procedures controlling the selection process which were well understood by those concerned.

<u>Selection Policies and Procedures</u> <u>Recommended by Professional Associations</u>

The selection process for architects and landscape architects differs somewhat from that used in selecting engineers. This may be attributable, in part, to the fact that there is one dominant national professional association for architects—the AIA, while different kinds of engineers such as civil, mechanical, and highway have formed their own organizations. The AIA has developed a single set of procedures governing the selection of architects. Each engineering association, on the other hand, has

produced its own rules and regulations. Although there is considerable similarity among approved selection procedures, there are also some significant variations. Further, the AIA procedures are specific and detailed while the provisions set forth by the engineering associations are broad and general.

Selection of Architects. There are two widely accepted methods for the selection of architects: (1) comparative or direct selection and (2) design competition selection. In comparative or direct selection, which is the method most frequently employed, the prospective employer selects the architect he considers will best serve his purpose from among architects given the opportunity to present evidence of their qualifications. The employer in making his decision may rely on the advice of another architect acting as his professional adviser.

Occasionally, a distinction is made between comparative and direct selection. When the distinction is made, comparative selection retains the definition above, but direct selection is defined as the selection of an architect on the basis of the employer's personal knowledge of the architect's reputation, demonstrated ability, and the recommendation of others for whom the architect has rendered his service.² An example of the use of direct

²American Institute of Architects, <u>Facts About Architecture and Architects</u> (Washington, D. C.: The Institute, n.d.), n.p.

selection would be when an employer, without considering the possibility of hiring
other architects, retains an architect,
who has successfully completed a job for
him, to perform an identical or similar
job. The distinction between the two
methods is so fine that for the most part
direct selection is not considered as a
separate method. None of the State agencies employing architects distinguish
between the two methods.

If comparative selection is used, the first step is to establish a list of architects. In compiling such a list, it is recommended that consideration be given to include architects who: (1) have performed work which is particularly admired in the community; (2) have rendered satisfactory service in the past: (3) are recommended by other organizations; (4) have experience in a similar type of building; (5) show interest in being considered; and (6) are recommended by other architects. In addition, a public announcement may be issued inviting other architects to submit their qualifications.3

Once the list is compiled, applicants are requested to submit a representative list of completed work, together with photographs, as well as statements of their training, background, experience, and the size of their organization and staff. The employer then reviews the qualifications and experience of each applicant. A personal interview is considered necessary to determine whether architect and owner are compatible. Finally, the architect's work is investigated to ascertain his versatility and ingenuity to solve particular problems. This may involve visits to prior projects he has completed and talks with their owners, and perhaps with the contractors who worked on them.

After completing this procedure the employer selects an architect. They then negotiate contract terms and fees. If the architect and employer are not able to come to agreement concerning the terms of the contract or the fee to be charged, the negotiations are terminated and the employer selects another architect.

The other method of selection approved by the AIA is design competition. As

³American Institute of Architects, <u>Facts About Your Architect and</u> His Work (Washington, D. C.: The Institute, 1959), p. 10.

defined by the AIA, "a competition exists when two or more architects, at substantially the same time, and under substantially the same conditions, and with knowledge, comply with an owner's request to submit designs for his building requirements." 4 This method is expensive and time consuming and is rarely used except for large or significant public projects.

Competitions limited to citizens of the United States must be approved by the AIA and carried out according to its regulations if AIA members are to participate. International competitions must comply with the regulations of the International Union of Architects (IUA) and, if originating in the United States, must also have AIA approval.

Among the requirements that must be met for AIA and IUA approval are the awarding of cash prizes, appointment of a professional adviser who must be an architect, selection of a jury composed of at least three members a majority of whom must be architects, and an agreement by the employer to engage the winning architect

for the project.

During the time covered in this report, the method of design competition selection was not used by the State. There was at least one project, the state capitol, where use of design competition was considered justified because of the importance and nature of the structure, but because of time limitations, according to the Department of Accounting and General Services, it was not feasible to use this method. In this one situation the State departed from AIA approved methods for architect selection. The Governor appointed an Architects Selection Committee consisting of prominent local citizens to recommend an architect. The committee screened architects considered qualified who had shown interest in the project and made a recommendation.

Whichever selection method is utilized there are several important factors to consider in evaluating architects. The AIA suggests that the prospective employer consider whether or not each architect under consideration:

⁴American Institute of Architects, <u>Handbook of Architectural</u>
<u>Practice</u> (Washington, D. C.: The Institute, 1958), Section II, 4.02.

(a) possesses the native ability and has had experience necessary for the work in hand; (b) possesses the technical knowledge needed to control the design of the structure and equipment and to secure the best results economically; (c) maintains an office organization capable of performing the required service within the required time; (d) possesses executive ability and the force to compel the proper performance of contracts; (e) has done work of like character or work from which his ability properly to serve may be inferred; (f) possesses a reputation for integrity; and (g) is actually licensed to practice in the state in which the project is located.5

Selection of Engineers. Selection procedures outlined by engineers are similar to the direct or comparative selection method advocated by architects. Design competition selection is not used in the selection of engineers.

The initial step in the selection process is to write out the project requirements including budget obligations, time allowed, and other limitations that may affect the engineering agreement. A list of engineers to be considered for the job is then prepared. Suggested sources of the names of engineers who should be considered are other organizations which have been confronted with similar problems and engineering societies. An alternative approach is to utilize a pre-qualification procedure such as that recommended by the

⁵<u>Ibid</u>., Section II, 3.02.

Garvin H. Dyer, "Selection of a Consulting Engineer," Journal American Water Works Association, LIV (March, 1962), 249.

American Association of State Highway Officials. It consists of the following steps: (1) a qualification questionnaire is prepared covering professional qualifications, experience, organization, reputation, availability, and financial resources; (2) the questionnaire and an explanation of its purpose and intended use are sent to all engineering consultants who may have the qualifications to do the kinds of work required or who may wish to be retained by the State; (3) the questionnaire is used to compile a general list of consultants who will be capable of performing given classes of engineering work and specific lists of consultants who meet all requirements for the successful and competent performance of engineering work requiring specialized skills, experience and availability.7

From the list of engineers, one or more are selected to be interviewed separately. The purpose of the interview is to determine compatibility and to allow the employer to make personal evaluations. The ASCE recommends that interviews be conducted by the principal engineer of the client or by a small qualified committee selected for the purpose. Among the factors that should be taken into consideration during the selection process are past experience, availability, reputation, size and quality of staff, and location. Time should be taken to investigate similar projects done by the engineers under consideration.

After taking into account all the pertinent factors, except fee, an engineer is selected for the job. At this time contract negotiation begins between the employer and the engineer on the scope of

⁷American Association of State Highway Officials, Administrative Practices Committee, "A Report to the A.A.S.H.O. Executive Committee Concerning Recommended Procedures for Pre-qualifying Engineering Firms," (n.p., n.d.) n.p.

⁸American Society of Civil Engineers, Private Practice of Civil Engineering (New York: The Society, 1959), p. 2.

⁹Dyer, op. cit., p. 250.

services to be performed, time schedules, and fees. If the employer and engineer cannot reach agreement, the negotiations cease and the employer selects another engineer.

<u>Competitive Bidding for Professional</u> <u>Services</u>

The proper expenditure of public funds is a matter of concern to the legislature with its responsibility for levying taxes and making appropriations, to the administration with its responsibility for collecting taxes and overseeing expenditures, to those from whom government purchases goods and services, and to the public which pays the taxes and receives governmental services. Hawaii law governing the expenditure of public money states, in part:

No expenditure of public money... where the sum to be expended shall be

The reasons for such laws have been explained by the Hawaii Supreme Court:

Such statutory provisions are based upon motives of public economy and originate in some degree of distrust of the officers to whom the duty to make contracts for the public service is committed. Their object is 'to prevent favoritism, corruption, extravagance and improvidence in the awarding of all public contracts'... 'to secure to the state the benefit and advantage of fair and just competition between bidders and at the same time close, as far as possible, every avenue to favoritism and fraud in its varied forms...and to insure the accomplishment of the work at the lowest price by subjecting the contract for it to public competition'.11

^{\$4,000} or more, shall be made, except under contract let after public advertisement for sealed tenders, in the manner provided by law....10

¹⁰Hawaii, Revised Laws (1955), Sec. 9-21.

¹¹Wilson v. Lord-Young Engineering Co., 21 Hawaii 97 (1912).

Bidding requirements are not applicable to expenditures of money in Hawaii when: (1) their purposes "do not admit of competition", and (2) "the work to be done is of such a nature that its extent and character can not be known or specified beforehand with reasonable certainty".12 These particular exceptions form the legal basis for not using bidding procedures set forth by law when employing architects, engineers and related professionals.

Arguments used by professional associations and their members for exemption from competitive bidding employ the same assumptions basic to the legal exceptions. The following statements are indicative of the general tenor of professional discussions on the subject:

There is a quite definite answer to the question as to why

there should not be competitive bids for professional engineering services, in the manner that construction contractors are required to bid for jobs. Materials of construction are subject to measurement and testing for quality and workmanship. Structures are built according to carefully prescribed specifications. They can be measured and examined. By adequate inspection during construction defective workmanship can be detected and the excellence of a structure can be substantially quaranteed.

On the contrary, professional engineering services are the result of intellectual ability. It is not reasonable to expect that an engineer of mediocre ability will provide an end result that will be of equal quality with that furnished by a highly competent one, even though there may be no immediate evidence to demonstrate the difference.13

¹²Hawaii, Revised Laws (1955), Sec. 9-21, 9-22.

^{13&}quot;Thoughts on Hiring of Consultants," Roads and Streets, CI (August, 1958), p. 75.

have based their opinions on the concept that bids are required only when a definite specification can be written to cover the material or service under consideration. Surely it is next to impossible to write a specification governing the quality or quantity of thought, creativity, mental skill or judgment required of an engineer in the design of a project. 14

Exclusion of architects, engineers, and related professionals from competitive bidding processes is the accepted situation in Hawaii as it appears to be throughout the United States. So far as could be determined no governmental jurisdiction in this country requires

professionals in these fields to bid for jobs. The AIA and professional engineering associations, it should be noted, have incorporated in their codes of ethics provisions forbidding members to compete for jobs on the basis of fee. Provision 3 of the mandatory standards of the AIA reads:

An architect shall not knowingly compete with other architects on a basis of professional charges, nor use donation as a device for obtaining competitive advantage. 15

Representative of engineer associations is provision 3 of the ASCE's Code of Ethics:

It shall be considered unprofessional and inconsistent with honorable and dignified conduct for any member of

¹⁴William G. Murphy, "Competitive Bidding for Professional Work Should Not Be Tolerated," <u>Public Works</u>, LXXXIX (October, 1958), 96.

¹⁵AIA Handbook, op. cit., Section A 2.04.

the American Society of Civil Engineers...to invite or submit priced proposals under conditions that constitute price competition for professional services. 16

The Utility of Selection Policies and Procedures

The objectives of laws governing public expenditures are relevant even to expenditures for contracts between the government and professionals which are excepted from devices such as competitive bidding. Competitive bidding does not per se guarantee that there will not be "favoritism, corruption, extravagance and improvidence" in the awarding of public contracts. It does tend to make the awarding of contracts visible to public scrutiny. The involvement of several interested competitors usually encourages the discovery and announcement of irregularities in the letting of contracts.

Contracts with professionals are a different matter. Discretion over the expenditure of large sums of public money through contracts with professionals may be vested in an appointive department

head or board. In some cases this authority, for all practical purposes, is delegated to a subordinate although the department head or board may formally approve the contract.

Price and measurable specifications provide criteria for judging the relative merits of applicants under the competitive bidding process. There are no such ready guides available when selecting architects or engineers. The selection of a qualified architect or engineer is the result of a value judgment on the part of the responsible individual or group. Lack of objective criteria for measuring the relative merits of applicants for a contract makes it difficult to identify irregularities.

Assuming that it is desirable to prevent "favoritism, corruption, extravagance and improvidence" in the awarding of all contracts regardless of the awarding process employed, the question becomes one of how these objectives may best be realized. One important step is to define clearly the policies and procedures to be used in awarding contracts. These policies and procedures can be informal, as is the present case in this State, or formal. Informality in this situation, however, may be a symptom of lack of system. As pointed

¹⁶American Society of Civil Engineers, Private Practice of Civil Engineering, op. cit., p. v.

out in a prior Bureau study, "if a system functions in an ad hoc fashion, if its various practices vary within or among agencies, and if responsible administrators of the activity rely on their personal interpretation for the establishment of policy, confusion and inefficiency are bound to result".17

The Questionnaires and Present Selection Policies and Procedures

Questionnaires were employed in eliciting specific information about the informal policies and procedures followed by the contracting agencies. The questionnaires were based largely on material gathered from publications of professional associations, articles by architects and engineers, and interviews with members of those professions in the community. The replies to the questionnaires are useful in indicating the policies and procedures which the agencies report they are following and in identifying similarities and differences in these policies and procedures among the various state agencies.

Two separate questionnaires were prepared because of differences between the accepted selection procedures applicable to architects and those relating

to engineers. Table 1 records the responses of state agencies to the questionnaire on the selection of architects; table 2 the data on the selection of engineers. In many instances the information required was the same for architects as for engineers and identical questions appear in both questionnaires. Some of the responses are summarized below.

Use of Recommended Methods. Responses to question 1 on both questionnaires indicate that agencies always use the methods recommended by the AIA when selecting architects or a professional association when selecting engineers, except for Accounting and General Services which occasionally does not use the methods suggested by professional associations when retaining engineers.

Compilation of Lists. In preparing lists of architects and engineers to be considered for projects, none of the agencies makes a public announcement inviting applicants to submit their qualifications. The lists are informally maintained and not readily available. It is probable that no qualified architect or engineer interested in working for the State is excluded from these lists.

¹⁷University of Hawaii, Legislative Reference Bureau, Governmental Contracting and Purchasing, op. cit., p. 30.

Table 1

RESPONSE TO QUESTIONNAIRE CONCERNING POLICIES AND PROCEDURES USED BY STATE AGENCIES IN SELECTING ARCHITECTS STATE OF HAWAII AUGUST 1962a

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
1.	Do you use the methods recommended by the American Institute of Architects when retaining an architect?	A&GS HHA; T; UH				We use the direct selection method, except for the State Capitol Project when the architect was selected by the Architects Selection Committee appointed by the Governor (A&GS).
2.	Are project requirements including budget obligations, the time allowed, and other limitations completed before the selection process begins?	A&GS	T; UH		АНН	Because of the time required for the Public Housing Administration to review and approve different stages of a project (HHA).
3.	Are the following methods utilized in retaining architects:					
	a. Direct selection?	T		UH	нна	See comment to Question 1 (A&GS).
	b. Comparative selection?	нна	UH	T	A&GS	Only as it relates to making decision on direct selection (T).
	c. Design competition selection?				A&GS HHA; T; UH	

Table 1 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
4.	When architects are chosen by direct selection, are the follow-ing criteria used:					
	a. Prior knowledge or demonstrated ability?	A&GS HHA; T; UH				
	b. Reputation?	A&GS HHA; T; UH				
	c. Recommendations of past clients?		UH	A&GS HHA; T		
	d. Selection from a prepared list?	A&GS HHA		UH	Т	A list of architects is on file (T).
5.	When architects are to be chosen by the comparative selection method is a list of architects used?b	HHA; UH			A&GS	This method is not used (A&GS).
6.	When architects are chosen by design competition selection, are the procedures of the American Institute of Architects followed?					This method is not used (A&GS HHA; T; UH).

Table 1 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
7.	Do you maintain a list of architects to be considered for jobs?	A&GS HHA; T; UH				We maintain a brochure file of qualified firms (UH).
8.	Are names for the list drawn from the following sources:					
	a. Architects whose work is particularly admired in the community?	нна; т	UH	A&GS		
	b. Architects who have rendered satisfactory service in the past?	A&GS HHA; T	UH			
	c. Architects recommended by other organizations?	т		A&GS UH	нна	·
	d. Architects experienced in similar types of work?	A&GS HHA; T	UH			
	e. Architects who express interest in being considered?	A&GS HHA; T	UH			
	f. Architects recommended by other architects?	т		HHA; UH	A&GS	

Table 1 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
9.	Is a public announcement made inviting other architects to submit their qualifications?				A&GS HHA; T; UH	Each architect submits his qualifications with his application (A&GS). We wrote to the local chapter of the AIA stating we were compiling a list of architects and would consider all interested applicants (HHA).
10.	Must applicants for work submit:					
	a. Representative list of work completed together with photo- graphs?	A&GS HHA; T	UH			Photographs accepted (HHA). Generally, those who ask to be considered for state jobs submit complete brochure on organization and experiences (T).
	b. Statements of training, back- ground, and experience?	A&GS HHA; T	UH			
	c. Information on the size and organization of their staff?	A&GS HHA; T	UH			
11.	Are the qualifications and experience of each applicant reviewed by:					
	a. An individual in the agency?	A&GS HHA; T; UH				The Director and/or Deputy Director reviews applications (T).
	b. A committee?			A&GS UH	HHA;	Only in the case of the State Capitol Project (A&GS).

Table 1 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
12.	If a committee is used does it include:					
	a. An architect?					The Architects Selection Committee for the State Capitol included architects, engineers, non-professionals and agency members (A&GS). No committees are used (HHA; T). The University has not had architectural services available on its staff (UH).
	b. An engineer?	UH				The office of the University with responsibility for capital improvements has been administered in recent years by professional engineers (UH).
	c. Non-professionals?			UH	-	
	d. Agency members only?	UH				
13.	Are interviews held with only the selected architect?	A&GS HHA; T		UH		Exception: Interviews are some- times held with prospective architects when they are located on the mainland (T).

Table 1 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
14.	Are the following methods used in investigating an architect's work:					
	a. Visits to buildings he has done?	A&GS	UH	T	нна	
	b. Talks with their owners?		A&GS	T; UH	АНН	
	c. Talks with contractors who worked on them?		A&GS	T; UH	АНН	
L5.	Is the architect selected before fees are discussed?	A&GS HHA; T; UH				
6.	Are the following factors significant in determining how the agency will go about retaining the services of an architect for a specified job:					
	a. Formal agency policy?		A&GS		HHA; UH	We have no formal policy (T). We have an unwritten working policy (A&GS).
	b. Size of project?	A&GS HHA; T; UH				

Table 1 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
16.	<pre>(continued) c. Past experience of the architect with similar jobs?</pre>	A&GS HHA; T; UH				
	d. Type of project?	A&GS HHA; T; UH				
	e. Other? (please note)		UH			Past assignments for the University (UH).
17.	Do you reserve the right to approve selection of sub-contractors?	A&GS T	UH		нна	
18.	If you do reserve the right to veto selection have you exercised it?			UH	A&GS	Not applicable (HHA).
19.	Does the agency enter into a formal, legal consultant's contract with the architect before proceeding with the job?	A&GS HHA; T	UH			Scope of service, conditions, and terms of contract are understood and agreed before proceeding with the work (UH).
20.	Is the final selection of the architect made by the board? (Applicable to HHA and UH only).	АНН	UH			Contracts are approved by the Board of Regents, including contracts for professional services (UH).

Table 1 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
21.	Has the board accepted and approved the recommendations of the professional staff? (Applicable to HHA and UH only).		HHA; UH			
22.	Is the user agency consulted in the selection of architects? (Applicable to A&GS only).			A&GS		Only in the case of the University of Hawaii where Act 30, SLH 1962 (CIP) mandates consultation (A&GS).
23.	May the user agency recommend the architects it desires; may it veto the choice of the architect selected by the Department of Accounting and General Services? (Applicable to A&GS only).			A&GS		The user agency may recommend names it desires; however, final selection is the Comptroller's decision (A&GS).

Table 1 (continued)

	Questions	Major	Minor	Qualifying Comments
24.	Please discuss in the adjacent space which of the following factors are most important to you when selecting an architect and which are least important. Please add other significant factors that enter into your decision.			
***************************************	a. Experience of architect.	A&GS T		
	b. Recommendation of agency staff.	A&GS T		
	c. Recommendation of professional associations.		A&GS T	
	d. Recommendation of other architects.		A&GS T	
	e. Recommendation of past clients.	T	A&GS	
	f. Results of interview.	A&GS	T	Applies only to mainland consultants otherwise would not be considered essential (T).
	g. Location of architect.		A&GS T	
	h. Size and organization of staff.	A&GS T		
	i. Prior relations with the architect.	A&GS T		
	j. Reputation of architect.	A&GS T		
	k. Local residency.	A&GS	T	
	1. Expressed interest of architect.	A&GS T		
	m. Potential fees.		A&GS T	

Table 1 (continued)

aCode:

A&GS - Department of Accounting and General Services

HHA - Hawaii Housing Authority

T - Department of Transportation

UH - University of Hawaii

The Department of Land and Natural Resources does not hire architects and therefore is not included.

DAgencies in answering questions 3 and 5 did not make a distinction between comparative and direct selection. All agencies actually use the comparative or direct selection method which is defined as selection by the prospective employer of the architect he considers will best serve his purpose from a group of architects given the opportunity to present evidence of their qualifications.

CThe most important factor is the architect's ability to meet needs peculiar to housing projects. The project should be an attractive living area not just a shell. We want imaginative thinking from the architect. Past performance and experience are important. Another factor we consider is the architect's knowledge of local conditions (HHA). The factors that receive greatest emphasis are the experience of the architect, results of interviews, an evaluation of the ability of the architect to provide the professional service required, and an evaluation of the architect's approach to alternative solutions, philosophy, and ability to work within budget limitations (UH).

Table 2

RESPONSE TO QUESTIONNAIRE CONCERNING POLICIES AND PROCEDURES USED BY STATE AGENCIES IN SELECTING ENGINEERS AND RELATED PROFESSIONALS STATE OF HAWAII AUGUST 1962a

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
1.	Do you use the methods suggested by some professional association when retaining an engineer?	L&NR T; UH	A&GS			ASCE (L&NR).
2.	Are project requirements including budget obligations, the time allowed, and other limitations completed before the selection process begins?	A&GS L&NR	T; UH			However, always for budget obliga- tions (T).
3.	Is there a formal, written set of policies and procedures governing the selection process?	L&NR			A&GS T; UH	We use the procedures outlined by ASCE and Garvin Dyer's article (L&NR)
4.	Do you maintain a list of engineers to be considered for jobs?	A&GS L&NR T; UH				We use the list from <u>Hawaii Civil</u> <u>Engineer</u> (local ASCE publication) (L&NR).
5.	If so, are names for the list drawn from the following sources:					
	a. Engineering societies?	L&NR	A&GS	T; UH		
	b. Other agencies with similar work requirements?		UH	A&GS L&NR T		

Table 2 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
5.	(continued)					
	c. Other engineers?			L&NR T; UH	A&GS	
	d. Those who have performed satis- factorily in the past?	A&GS T; UH	L&NR			
	e. Engineers experienced in similar types of work?	A&GS T; UH	L&NR			
	f. Engineers who express interest in being considered?	A&GS T	L&NR UH			
	g. Public announcement inviting engineers to submit their qualifications?				A&GS L&NR T; UH	
6.	Is a prequalification procedure used to compile a list of engineers qualified for specific types of work?	T			A&GS L&NR UH	By brochure submitted by engineer (T).
7.	Must applicants for work submit:					
	a. Representative list of work completed together with photographs?	A&GS T	L&NR UH			Brochures cover all these questions (T; UH).
	b. Statements of training, back- ground, and experience?	A&GS T	L&NR UH			
	c. Information on the size and organization of their staff?	A&GS	L&NR UH			

Table 2 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
8.	Are the qualifications and experience of each applicant reviewed by:					
	a. An individual in the agency?	A&GS T; UH		L&NR		
	b. A committee?		L&NR	UH	A&GS	
9.	Are interviews held only with the selected engineer?	A&GS		L&NR UH		Interviews are sometimes held with prospective engineers when they are located on the mainland (T).
10.	Are the following methods used in investigating an engineer's work:					
	a. Visits to facilities he has worked on?	A&GS	UH	L&NR		
	b. Talks with their owners?		A&GS	L&NR T; UH		
	c. Talks with contractors who worked on them?		A&GS	L&NR T; UH		
11.	Is the engineer selected before fees are discussed?	A&GS L&NR T; UH				

Table 2 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
12.	Are the following factors significant in determining how the agency will go about retaining the services of an engineer for a specific job:					
	a. Formal agency policy?			A&GS	L&NR UH	Because there is no formal agency policy. There is an informal policy (L&NR). We have no specific policy (T). We have an unwritten working policy (A&GS).
	b. Size of project?	A&GS T; UH	L&NR			
	c. Past experience of the engineer with similar jobs?	A&GS T; UH	L&NR			
	d. Type of project?	A&GS T; UH	L&NR			
	e. Other? (please note)					
13.	Do you reserve the right to approve selection of sub-contractors?	A&GS	ин		L&NR	Sometimes exercise the right to approve selection of subcontractor (T).
14.	If you do reserve the right to veto selection have you exercised it?			UH	A&GS	Not applicable (L&NR).

Table 2 (continued)

	Questions	Always	Fre- quently	Some- times	Never	Qualifying Comments
15.	Does the agency enter into a formal, legal consultant's contract with the engineer before proceeding with the job?	A&GS L&NR T		UH		This is true now, but has not always been the case in this Department in the past (L&NR). Except for small jobs where a letter of agreement is utilized (A&GS). Scope of work, conditions and terms of contract are understood and agreed to before proceeding with work (UH).
16.	Is the final selection of the engineer made by the board? (Applicable to L&NR and UH only),		L&NR UH			Contracts are approved by the Board of Regents, including contracts for professional services (UH).
17.	Has the board accepted and approved the recommendations of the professional staff? (Applicable to L&NR and UH only).	L&NR	UH			
18.	Is the user agency consulted in the selection of engineers? (Applicable to A&GS only).			A&GS		Only in the case of the University of Hawaii where Act 30, SLH 1962 (CIP) mandates consultation (A&GS).
19.	May the user agency recommend the engineers it desires; may it veto the choice of the engineer selected by the Department of Accounting and General Services? (Applicable to A&GS only):			A&G5		The user agency may recommend names it desires; however, final selection is the Comptroller's decision (A&GS).

Table 2 (continued)

	Questions	Major	Minor	Qualifying Comments
20.	Please discuss in the adjacent space which of the following factors are most important to you when selecting an engineer and which are least important. Please add other significant factors that enter into your decision.			
	a. Experience of engineer.	A&GS T; UH		
	b. Recommendation of agency staff.	A&GS T; UH		
	c. Recommendation of professional associations.		A&GS T; UH	
	d. Recommendation of other engineers.		A&GS T; UH	
	e. Recommendation of past clients.	T; UH	A&GS	
	f. Results of interview.	A&GS UH	T	Applies only to mainland consultant with whom we have had no experience (T).
	g. Location of engineer.		A&GS T; UH	
	h. Size and organization of staff.	A&GS T; UH		
	i. Prior relations with the engineer.	A&GS T; UH		
	j. Reputation of engineer.	A&GS T; UH		
	k. Local residency.	A&GS	T; UH	
	1. Expressed interest of engineer.	A&GS T	UH	
	m. Potential fees.		A&GS T	Fees are considered after the selection (UH).

Table 2 (continued)

aCode:

A&GS - Department of Accounting and General Services

L&NR - Department of Land and Natural Resources

T - Department of Transportation

UH - University of Hawaii

The Hawaii Housing Authority does not hire engineers and therefore is not included.

bGarvin H. Dyer, "Selection of a Consulting Engineer," <u>Journal American Water</u> <u>Works Association</u>, LIV (March, 1962), pp. 247-252.

Experience in the phase of engineering relating to the project is one of the most important factors. The size and composition of the engineer's staff is important in relation to the demands of the job being considered. Compatability between the consultant and the professional agency staff is essential. The engineer should have the ability to get along with others including those who might be associated with him on a project. It is helpful if the consultant's office is located where close contact with the professional agency staff is possible. The interest of the engineer in a specific project is significant because the greater his interest the more likely he is to not only fulfill the minimum requirements of the job but to go well beyond this when necessary. Another factor is prior relations with the engineer. Potential fees are rarely, if ever, of any importance in selecting an engineer (L&NR).

Choice of Architect or Engineer. The Department of Land and Natural Resources and the University of Hawaii are the only agencies which use a committee system in reviewing the qualifications and experience of applicants. Other departments rely on an individual to perform this task; i.e., one person decides, in most cases, that a specific architect or engineer is to be employed.

<u>Discussion of Fees</u>. All agencies select the architect or engineer before discussing fees. This is in keeping with the codes of ethics of the AIA and the various engineering associations.

Most architects and engineers strictly observe these standards and refuse to compete on the basis of price. However, there are well defined and accepted guidelines for negotiating fees. For example, the method most widely used by state agencies for determining fees is a percentage of the total construction cost. The percentage decreases as the net construction cost increases and may be adjusted to suit special conditions. Other methods such as cost plus a fixed fee and direct salary are occasionally used.

Approval of Subcontractors. The variation that may occur when a formal policy does not exist is evident in the different policies concerning agency approval of subcontractors employed by the prime contractor. The Departments of Accounting and General Services and Transportation always reserve the right to approve selection of subcontractors, the University of Hawaii frequently does so, and the Department of Land

and Natural Resources and the Hawaii Housing Authority never do so. The University of Hawaii is the only agency which has exercised the right to veto the selection of subcontractors.

Existence and Use of Policies. The most significant conclusion which may be drawn from the responses to the questionnaires which appear in tables 1 and 2 and discussions with departmental officials and employees is that the lack of formal policies governing the selection of architects and engineers appears to be accompanied by a fair degree of flexibility in determining the methods or steps to be followed in the case of particular contracts or, more importantly, the steps to be left out.

It may be maintained that the development of a formal written set of policies and procedures for the selection of architects, engineers and related professionals would help in providing: (1) useful information to government officials and employees, persons interested in contracting with the State, and the general public; (2) some general standards to be referred to in evaluating professionals and explaining selections; (3) a choice of alternative selection procedures; (4) checks against irregularities in awarding of contracts; (5) greater uniformity among agencies where desirable; and (6) an examination of existing policies and procedures.

If clarification of selection policies and procedures would enhance the likelihood of selecting the most qualified professionals for the job, then it would be worth taking the time and trouble to formulate and administer such clarified policies, for the success of a construction project is in large measure the result of selecting the right architect or engineer -29- for the job.

PART II

LIST OF ARCHITECTURAL AND ENGINEERING CONTRACTS

Collection and Arrangement of Data

The list of contractors includes data from two sources. First, the five State agencies employing architects and engineers (Accounting and General Services, Hawaii Housing Authority, Land and Natural Resources, Transportation, and University of Hawaii) listed the jobs performed for them, the names of the prime contractors performing the jobs, contract dates, and the applicable fees. Second, the prime contractors furnished the names of subcontractors they had employed and, where necessary, provided additional information.

Arrangement of the list is by prime contractors in alphabetical order. Jobs performed as joint ventures, involving two or more firms, are listed only once under the name of the joint venture. They are not listed again under the names of the individual participating firms. Under the name of each prime contractor appear the jobs he has done for the State during the time covered by the study, the initials of the contracting State agency, the date of the contract, the fee, and the names of subcontractors employed on the project. Fees paid

subcontractors are not included because they are not a matter of public record but rather a private arrangement between contractor and subcontractor.

Space limitations have necessitated the use of footnotes to indicate subcontractors employed to do specialized work which could not be readily categorized under one of the column headings. It should be pointed out that prime contractors, in addition to being listed as such, appear again in the subcontractor columns or footnotes on jobs they have performed to indicate the nature of their work.

The code for agency initials is:

A&GS - Department of Accounting and General Services

HHA - Hawaii Housing Authority

L&NR - Department of Land and Natural Resources

Trans - Department of Transportation

UH - University of Hawaii

An asterisk (*) has been placed after the title of jobs which are limited to the design of equipment installations (electrical, air conditioning, food service), modification of existing facilities, surveys, or similarly restricted work when the limitation is applicable but not implicit in the brief job description included in the table.

On some projects the contracting State agency has served as the prime contractor and, in turn, has employed subcontractors for special work. Subcontractors, in such cases, for purposes of clarity, have been listed in Table 3 as the prime contractors. Two asterisks (**) follow the initials of the department on projects in which the department acted as the prime contractor.

Table 3

CONTRACTS FOR ARCHITECTURAL AND ENGINEERING SERVICES ENTERED INTO BY STATE OF HAWAII, FEES PAID, AND SUBCONTRACTORS EMPLOYED LISTED BY PRIME CONTRACTORS, AUGUST 21, 1959 THROUGH JUNE 30, 1962

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer		
	BE & ASSOCIATES, INC.; HOGAN ARCHITECTS - PRIME CONTRACTORS							
1. A&GS	Dual Purpose Cafeteria & Hotel- Restaurant Training Building (Kapiolani Technical School) (June 23, 1961) \$32,800 - Fee	Hogan & Chapman; Anbe	Taniyama	Kohloss & Associates		Nakamura		
TAKASHI ANBE & ASSOCIATES, INC.; LAW & WILSON, LTD PRIME CONTRACTORS								
1. Trans	Overseas Passenger & Freight Terminal, Honolulu ¹ (January 5, 1961) \$143,432 - Fee	Rothwell, Lester & Phillips; Anbe & Associates	Rothwell, Lester & Phillips	Montgomery & Associates	Tongg	Nakamura		
TAKASHI ANBE & ASSOCIATES, INC.; ROTHWELL, LESTER & PHILLIPS, LTD PRIME CONTRACTORS								
1. Trans	Modernization of Piers 8-9-10-11, Passenger Terminal at Honolulu ² (October 5, 1961) \$228,375 - Fee	Rothwell, Lester & Phillips; Anbe & Associates	Rothwell	Montgomery & Associates	Tongg	Nakamura		

¹Specialized work: K. B. Hirashima & Associates (soils engineer); Law & Wilson, Ltd.
(consulting architects & engineers).

²Specialized work: Steve A. Harper (traffic consultant).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape <u>Architect</u>	Electrical Engineer
	BE & ASSOCIATES, INC.; AMA ¹ - PRIME CONTRACTORS					
1. A&GS	Classroom Building No. 2 & Health Research Institute (UH) (July 30, 1960) \$75,393 - Fee	Anbe	Taniyama	Carleton	Walters	Nakamura
2. A&GS	Classroom Building No. 3 (UH) (May 31, 1962) \$21,300 - Fee	Anbe	Taniyama	Chee		Nakamura
EDWARD AOT	ANI ² - PRIME CONTRACTOR					
1. A&GS	Aina Haina Library ³ (August 8, 1960) \$15,500 - Fee	Aotani	Taniyama			Nakamura

H.A.R. AUSTIN & ASSOCIATES, LTD.; LAW & WILSON, LTD. - PRIME CONTRACTORS

1. L&NR Magic Island⁴
(August 1959)
\$108,445 - Fee

Information was not available from Jack Taniyama. The above data were furnished by Takashi Anbe & Associates, Inc., and the Department of Accounting and General Services.

²Information was not available from Edward Aotani. The above data were furnished by the Department of Accounting and General Services.

³Specialized work: Nat Whiton (borings).

⁴Specialized work: H.A.R. Austin & Associates, Ltd.; Law & Wilson, Ltd. (civil engineers); K. B. Hirashima & Associates (soils engineer); Nat Whiton (borings); R. M. Towill Corporation (surveyors).

Depart-			Structural	Mechanical	Landscape	Electrical
nent	<u>Job</u>	Architect	Engineer	<u>Engineer</u>	Architect	<u> Engineer</u>

HARLAND BARTHOLOMEW & ASSOCIATES - PRIME CONTRACTOR

- 1. L&NR Development Studies, Waimanalo¹
 (August 1959)
 \$12,000 Fee
- 2. L&NR Planning Studies, Waimanalo (October 1959) \$16,900 - Fee
- 3. L&NR Lalamilo Farm Lots² (October 1959) \$4,719 Fee
- 4. L&NR Sand Island²
 (January 1962)
 \$52,458 Fee

HARLAND BARTHOLOMEW & ASSOCIATES; BELT, COLLINS & ASSOCIATES, LTD. - PRIME CONTRACTORS

1. L&NR Ala Moana, Magic Island³
(August 1959)
\$151,000 - Fee

¹ Specialized Work: Harland Bartholomew & Associates (planning & preliminary engineering).

²Specialized work: Harland Bartholomew & Associates (civil engineers).

³Specialized work: Harland Bartholomew & Associates; Belt, Collins & Associates, Ltd. (engineering & economic feasibility studies & planning).

HARLAND BARTHOLOMEW & ASSOCIATES; TUDOR ENGINEERING CO. - PRIME CONTRACTORS

1. Trans Development Plan for Honolulu Harbor¹
(August 8, 1960)
\$47,000 - Fee

BELT, COLLINS & ASSOCIATES, LTD. - PRIME CONTRACTOR

- 1. L&NR Engineering Studies,
 Hapuna Beach²
 (December 1959)
 \$8,194 Fee
- 2. L&NR Development Plans, Lalamilo²
 (June 1960)
 \$9,200 Fee
- 3. L&NR Studies, Waiakea Business Lots² (September 1960) \$9,000 Fee
- 4. LENR Plans, Magic Island³
 (January 1962)
 \$18,900 Fee

¹Specialized work: Harland Bartholomew & Associates (planners); Tudor Engineering Co. (civil engineers).

²Specialized work: Belt, Collins & Associates, Ltd. (civil engineers).

³Specialized work: Belt, Collins & Associates, Ltd. (civil engineers); Professor Joe Johnson (University of California-Oceanography).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
BELT, COLL	INS & ASSOCIATES, LTD. (cont.)					
5. Trans	Feasibility Study for Small Boat Harbor at Kaiaka Bay, Waialua, Oahul (January 13, 1961) \$22,500 - Fee					
6. Trans	Pollution Study, Haleiwa, Oahu ² (September 19, 1961) \$3,150 - Fee					
7. Trans	Feasibility Study for Small Boat Harbor on the Honolulu Side of Kaneilio Point, Waianae, Oahu (October 13, 1961) \$22,500 - Fee					Nakamura
8. UH	Landscaping Plans for the Music Hall Complex (January 8, 1962) \$760 - Fee				Belt, Collins	

¹ Specialized work: Belt, Collins & Associates, Ltd. (civil engineers); Kailua Surveyor; Nat Whiton (borings); Professor Joe Johnson (University of California-Oceanography).

²Specialized work: Belt, Collins & Associates, Ltd. (civil engineers);
Professor Harry Zeitlin, UH Chemist.

³Specialized work: Belt, Collins & Associates, Ltd. (civil engineers);
Nat Whiton (borings); Professor Harry Zeitlin, UH Chemist; Professor Joe Johnson (University of California-Oceanography).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer			
DELT, LEM	BELT, LEMMON & LO ¹ - PRIME CONTRACTOR								
l. A&GS & Trans	Honolulu International Airport Maintenance Buildings - Stage 18 ² (November 7, 1961) \$75,000 - Fee	Lemmon, Freeth, Haines & Jones	Lo	Montgomery & Associates	Belt, Collins & Associates	Nakamura			
2. A&GS & Trans	Honolulu International Airport Inter-Island Cargo Facilities - Stage 19 ² (June 1, 1962) \$10,400 - Fee	Lemmon, Freeth, Haines & Jones	Lo	Montgomery & Associates	Belt, Collins & Associates	Nakamura			
3. HHA	Kuhio Park Terrace, Honolulu ² (July 7, 1960) \$160,336 - Fee	Lemmon, Freeth, Haines & Jones	Lo	Montgomery & Associates	Belt, Collins & Associates	Nakamura			
•	BELT, LEMMON & LO; JOHN CARL WARNECKE & ASSOCIATES - PRIME CONTRACTORS								
1. A&GS	State Capitol Building, Preliminary Design ³ March 2, 1961 \$80,000	Lemmon, Freeth, Haines & Jones; Warnecke	Lo	Montgomery & Associates	Belt, Collins & Associates	Nakamura			

 $^{^{\}mathrm{l}}$ All of the listed firms are partners in Belt, Lemmon & Lo.

²Specialized work: Belt, Collins & Associates, Ltd. (site & utilities).

³Specialized work: Belt, Collins & Associates, Ltd. (civil engineers).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape <u>Architect</u>	Electrical Engineer
	ZET, DONALD T. LO, BELT, COLLINS ES, LTD PRIME CONTRACTOR					
l. A&GS	Honolulu Technical School, Aircraft Training Building ¹ (April 27, 1960 - June 18, 1962) \$21,260 - Fee	Benezet	Lo	Howlett (plumbing) Carleton (air condi- tioning)		Ward; Ralston
2. A&GS	Honolulu Technical School, Classroom Building ² (June 22, 1961) Supplement (February 6, 1962) \$39,700 - Total Fee	Benezet	Lo	Howlett (plumbing) Carleton (air condi- tioning)		Ward; Ralston
FORREST D.	BENNETT - PRIME CONTRACTOR					
1. A&GS**	Pahala Branch Library, Electrical System (December 5, 1961) \$510 - Fee					Bennett
2. A&GS**	Fort Ruger, Three-Unit Armory* (April 10, 1962) \$2,250 - Fee					Bennett
3. A&GS**	Iolani Palace, Fire Alarm System (May 14, 1962) \$356 - Fee					Bennett

¹Specialized work: Belt, Collins & Associates, Ltd. (site engineers).

²Specialized work: Nat Whiton (borings); Belt, Collins & Associates, Ltd. (site engineers).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
BRADLEY &	WONG - PRIME CONTRACTOR					
1. L&NR	Report on State Park Cabin Facilities at Waialee Beach, Oahu (January 1962) \$5,800 - Fee	Bradley & Wong			Walters	
KENNETH BROWN; ERNEST H. HARA & ASSOCIATES, INC PRIME CONTRACTORS						
1. A&GS	State Hospital, Medical- Surgical Building (July 26, 1960) \$41,000 - Fee	Brown; Hara	Taniyama	Carleton		Nakamura
ROBERT I.	BUSH, PLANNER - PRIME R					
1. A&GS	Hanapepe Salt Pond, Site Development ¹ (June 23, 1961) \$7,195 - Fee					
2. A&GS	Kanaha Pond Development ¹ (April 10, 1962) \$2,000 - Fee					

Parks Structures & Facilities 1

(August 1961) \$1,400 - Fee

3. L&NR

¹Specialized work: Robert I. Bush (site planning).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect
	BUSH; ANDREW GERAKAS; SUNN, LOW, , INC PRIME CONTRACTORS				
1. L&NR	Hilo Industrial Lands, Studies (December 1961) \$16,372 - Fee				
JOHN J. CA	RLETON - PRIME CONTRACTOR				
1. A&GS**	Air conditioning, Band Room, Fort Ruger Armory (March 7, 1960) \$105 - Fee			Carleton	
2. A&GS**	New Department of Health Building* (April 17, 1960) \$215 - Fee			Carleton	
3. A&GS**	Air conditioning, Lt. Governor's Office (August 17, 1960) \$125 - Fee			Carleton	
4. A&GS**	State Office Building, Addi- tion to Mezzanine Floor* (February 28, 1962) \$650 - Fee			Carleton	

Electrical Engineer

¹Specialized work: Robert I. Bush (land planning); Andrew Gerakas (economic research); Sunn, Low, Tom & Hara, Inc. (civil engineers).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape <u>Architect</u>	Electrical Engineer
CHING & HC	- PRIME CONTRACTOR					
1. A&GS**	Liliuokalani Building, Renovation of Basement* (November 2, 1961) Supplement (January 12, 1962) \$2,150 - Total Fee					Ching & Ho
2. A&GS**	State Hospital, Central Ware- house & Shop Building* (November 16, 1961) \$825 - Fee					Ching & Ho
3. A&GS**	Gilmore Hall, University of Hawaii, Electrical Renovation (November 28, 1961) \$4,000 - Fee					Ching & Ho
4. A&GS**	State Hospital, Renovation of Ward Building* (May 23, 1962) \$1,600 - Fee					Ching & Ho
5. Trans	Highway Lighting System on Farrington Highway (March 8, 1962) \$2,625 - Fee					Ching & Ho

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
COMMUNITY	PLANNING, INC PRIME CONTRACTOR					
1. L&NR	Ala Moana, Magic Island ^l (August 1959) \$50,500 - Fee					
2. L&NR	Research Studies, Waianae-Kai ² (March 1960) \$6,308 - Fee					
3. Trans	Tourist Destination Complex, Honokahau, Kona ³ (1962) \$31,970 - Fee					
DESIGN ASS	SOCIATES, LTD PRIME CONTRACTOR					
1. A&GS	Honolulu Technical School, Electronics Building (December 21, 1960) \$11,550 - Fee	Slavsky	Taniyama	Carleton		Nakamura
2. A&GS	Honolulu Technical School, Automotive Shops & Classroom Building (December 21, 1960) \$14,000 - Fee	Slavsky	Taniyama	Carleton		Nakamura

¹Specialized work: Eugene Maier (traffic engineer); Community Planning, Inc. (engineering studies).

²Specialized work: Community Planning, Inc. (preliminary feasibility & land use).

³Specialized work: Wilbur McCann (economic analyst); Community Planning, Inc. (master planning).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape <u>Architect</u>	Electrical Engineer
DESIGN ASS	SOCIATES, LTD. (cont.)					
3. A&GS	Government Building, Kona ^l (June 22, 1961) \$5,700 - Fee	Slavsky				
4. UH	Food Processing Center, University of Hawaii ² (January 10, 1962) \$37,400 - Fee	Slavsky	Taniyama	Kohloss		Nakamura
5. UH	Snack Bar No. 1, University of Hawaii (May 18, 1962) \$13,977 - Fee	Slavsky	Taniyama	Kohloss		Nakamura
DYNAMICS,	LTD PRIME CONTRACTOR					
1. A&GS	Iolani Palace, Addition & Alterations to Second Floor (January 13, 1960) \$5,750 - Fee	McAuliffe; Tagawa	Lo	Kohloss		MacMahon
2. A&GS & Trans	General Aviation Area at Honolulu International Airport, Stage 23 (March 21, 1962) Supplement (June 1, 1962) \$16,800 - Total Fee	McAuliffe; Tagawa	Taniyama; Lo	Kohloss		MacMahon

¹ Specialized work: Sunn, Low, Tom & Hara, Inc. (civil engineers).

²Specialized work: Walter Lum (civil engineer).

³Specialized work: Y. Arakaki (civil engineer).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
FLAMBERT A	ND FLAMBERT - PRIME CONTRACTOR					
1. UH	General Consulting Services ¹ (January 31, 1961) \$7,840 - Fee					
2. UH	Centralized Food Service System (Warehouse & Processing Center, New Snack Bar & Second Snack Bar to Replace Existing Snack Bar) (January 31, 1961) \$7,420 - Estimated Fee					
3. UH	Warehouse & Processing Center, New Snack Bar & Second Snack Bar to Replace Existing Snack Bar ¹ * (July 31, 1961) \$14,919 - Estimated Fee					
WILFRED K.	FUCHINO - PRIME CONTRACTOR					
1. A&GS	Kaneohe Branch Library (June 22, 1961) Supplement (December 8, 1961) \$21,518 - Total Fee	Fuchino	Taniyama	Carleton		Nakamura
ERNEST H. PRIME CONT	HARA & ASSOCIATES, INC PRACTOR					
1. A&GS	Kapaa Beach Natatorium, Kauai (May 5, 1959) Supplements (February 25, 1960 & June 16, 1961) \$13,880 - Total Fee	Hara & Associates	Tanimura	Nakashima		MacMahon

¹Specialized work: Flambert and Flambert (food service consultants & designers).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
BRUCE P. H	HARDEN - PRIME CONTRACTOR					
1. HHA	Addition to Lanakila Homes, Project 1-13 in Hilo ¹ (June 17, 1960) \$15,753 - Fee	Harden	Niwao	Howlett	Belt, Collins	Caires; Niwao
2. HHA	Second Addition to Lanakila Homes, Project HA 1-14, in Hilo ¹ (January 25, 1961) \$10,739 - Fee	Harden	Niwao	Howlett	Belt, Collins	Caires; Niwao
3. нна	Lokahi Homes in Hilo ¹ (February 2, 1961) \$20,000 - Fee	Harden	Niwao	Howlett	Belt, Collins	Niwao
HOGAN & CH	HAPMAN (ARCHITECTS) - FRACTOR					
1. A&GS	New Library, Hilo Campus, University of Hawaii (November 29, 1960) \$10.300 - Fee	Hogan & Chapman	Taniyama	Howlett		MacMahon

¹Specialized work: Belt, Collins & Associates, Ltd. (civil engineers).

	Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer	
S	HOSO KAGA	WA - PRIME CONTRACTOR						
1	. A&GS & Trans	Office & Laboratory Building, Hilo Baseyard (August 31, 1960) \$10,200 - Fee	Kagawa	Taniyama	Nakashima		Nakamura	
2	. A&GS	Architectural Design Services Necessary for the Construction of Maintenance Buildings at Hilo (December 28, 1960) \$8,100 - Fee	Kagawa	Taniyama	Nakashima		Nakamura	
3	. A&GS	Dormitory, Hilo Campus, University of Hawaii ¹ (October 12, 1961) \$17,252 - Fee	Kagawa	Taniyama	Howlett		Bennett	
	ROBERT T. PRIME CONT	KATSUYOSHI; FUJIO MATSUDA - RACTORS						
1	. A&GS	Waimano Home, Classroom & Hobby Shop (October 4, 1960) \$10,900 - Fee	Katsuyoshi	Matsuda	Katayama		Nakamura	
C	C. J. KIM & ASSOCIATES - PRIME CONTRACTOR							
1	A&GS	Cafetorium, University High School (October 6, 1961) Supplement (December 19, 1961) \$11,640 - Total Fee	Kim & Associates; Miller; Karnuth	Kim	Kim		Anderson	

¹ Specialized work: Nat Whiton (borings).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape <u>Architect</u>	Electrical Engineer			
NOBORU KOB	NOBORU KOBAYASHI - PRIME CONTRACTOR								
l. A&GS	Kula Sanatorium, Renovation to Second Floor (August 16, 1960) \$900 - Fee	Kobayashi	-						
2. A&GS	Renovation to Second Circuit Court, Maui (September 10, 1960) \$12,800 - Fee	Kobayashi	Taniyama	Carleton		Nakamura			
3. A&GS	Kahului Library (May 31, 1961) Supplement (February 2, 1962) \$18,600 - Total Fee	Kobayashi	Taniyama	Carleton		Nakamura			
FREDERICK PRIME CONT	H. KOHLOSS & ASSOCIATES - RACTOR								
1. A&GS**	Kapuaiwa Building* (October 13, 1961) \$2,250 - Fee			Kohloss					
LAW & WILS PRIME CONT									

Fallout Protection for Birkheimer Tunnel $^{\rm l}$ (October 12, 1961) \$17,000 - Fee

1. A&GS

¹ Specialized work: K. B. Hirashima & Associates (soils engineer); Nat Whiton (borings); Law & Wilson, Ltd. (consulting engineers).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
LAW & WILS	SON, LTD.; TUDOR ENGINEERING CO					
1. A&GS	Territorial Transportation & General Plan ¹ (October 9, 1959) \$110,000 - Fee					
GEORGE K. PRIME CON	C. LEE & ASSOCIATES - TRACTOR					
1. A&GS	Diamond Head School, Classroom "A" & "B" (June 22, 1961) \$6,800 - Fee	Lee & Associates	Taniyama			Ching & Ho
LEMMON, FI	REETH, HAINES & JONES - TRACTOR					
1. A&GS	Employment Security Building ² (June 17, 1960) \$22,048 - Fee	Lemmon, Freeth, Haines & Jones	Lo	Montgomery & Associates	Belt, Collins & Associates	Nakamura
DONALD T.	LO - PRIME CONTRACTOR					
1. Trans	Pedestrian Overpass on Kam IV Road (November 2, 1960) \$4,800 - Fee	Luke	Lo			

¹Specialized work: Law & Wilson, Ltd.; Tudor Engineering Co. (consulting architects & engineers); B. A. Hiroshima (soils consultant).

²Specialized work: Belt, Collins & Associates (site & utilities).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer
LUBLIN, MCC PRIME CONT	GAUGHY & ASSOCIATES - RACTOR			
1. Trans	Sampan Harbor on the Lower Wailoa River, Hilo, Hawaii ¹ (September 29, 1961) \$5,000 - Fee			
2. Trans	Small Boat Harbor, Hana, Maui ² (September 29, 1961) \$10,000 - Fee			
3. Trans	Drydock in the Vicinity of Hilo, Hawaii ¹ (January 19, 1962) \$2,000 - Fee			
4. UH	Hawaii Institute of Geophysics ³ (January 27, 1961) \$187,000 - Fee			Faus Engineering

Landscape

Architect

Electrical

Engineer

¹ Specialized work: Lublin, McGaughy & Associates (preliminary engineering).

²Specialized work! Lublin, McGaughy & Associates (preliminary engineering); Marine Advisers, Inc. (wave refraction studies).

³Specialized work: Lublin, McGaughy & Associates (preliminary engineering); R. M. Towill Corp. (civil engineers & site survey).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
HERBERT K	. C. LUKE; EDWARD AOTANI ^l -					
1. A&GS	Women's Dormitory ² (October 12, 1961)	Aotani; Luke	Taniyama	Carleton		Nakamura

WALTER LUM ASSOCIATES - PRIME CONTRACTOR

1. A&GS Waiakea-Uka District Flood Control³ (June 30, 1961) \$24,000 - Fee

MARINE ADVISERS, INC. - PRIME CONTRACTOR

1. Trans Compilation of Deep Water Wave Statistics⁴
(June 22, 1961)
\$16,800 - Fee

Information was not available from Edward Aotani. The above data were furnished by Herbert K. C. Luke and the Department of Accounting and General Services.

²Specialized work: Sunn, Low, Tom & Hara, Inc. (topographic work).

³Specialized work: Walter Lum Associates (consulting engineers).

⁴Specialized work: Marine Advisers, Inc. (wave statistics).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer				
HERBERT Y	HERBERT Y. MATSUMURA - PRIME CONTRACTOR									
1. A&GS	Dispensary, University of Hawaii ¹ (October 12, 1961) \$2,475 - Fee	Matsumura	Taniyama	Hee		Ching & Ho				
2. A&GS	Maintenance Building, University of Hawaii (February 23, 1962) \$16,000 - Fee	Matsumura	Taniyama			Nakamura				
_	ROBERT M. MATSUSHITA & ASSOCIATES - PRIME CONTRACTOR									
1. A&GS	Waipahu Health Center ² (May 22, 1962) \$7,000 - Fee	Matsushita & Associates	Nakamura	Hamilton		Oberhausen				
McAULIFFE, PRIME CONT	, YOUNG & ASSOCIATES - TRACTOR									
1. A&GS	Iolani Palace, Addition & Alteration to Second Floor (April 12, 1960) \$10,170 - Fee	McAuliffe; Tagawa		Montgomery & Kohloss		MacMahon				
2. A&GS	Women's Dormitory "A", University of Hawaii (May 29, 1962) \$19,500 - Fee	McAuliffe, Young	Lo	Nakashima	Walters	Nakamura				

¹Specialized work: Walter Lum Associates (civil engineer); Nat Whiton (borings).

²Specialized work: Ernest Park (civil engineer).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape <u>Architect</u>	Electrical Engineer		
McAULIFFE,	YOUNG & ASSOCIATES (cont.)							
3. A&GS & Trans	Kona Airport, Expansion of Parking Area & Waiting Room (October 19, 1960) \$5,100 - Fee	McAuliffe, Young	Lo			MacMahon		
I. M. PEI	YOUNG & ASSOCIATES AND & ASSOCIATES, JOINT VENTURE -WEST CENTER ASSOCIATES							
1. A&GS & UH	Preliminary studies of International Center ¹ (February 1, 1960) \$46,988 - Fee	McAuliffe, Young; Pei						
2. UH	East-West Center, Stage I, University of Hawaii ² (December 29, 1960) \$481,695 - Fee	Phillips; Design Asso.; Anderson- Kubala McAuliffe, Young; Pei	Park Associates; Lo; Yee	Forbes	Walters	Nakamura; Curley		
GEORGE McI	GEORGE McLAUGHLIN - PRIME CONTRACTOR							
1. A&GS	Waikiki-Kapahulu Extension Branch Library for the Blind (September 23, 1959) Supplement (March 8, 1961) \$11,080 - Total Fee	McLaughlin	Taniyama	Carleton		MacMahon		

¹Specialized work: Harland Bartholomew & Associates (campus master plan development).

²Specialized work: Flambert and Flambert (food service); Donald Swinney (theatrical); Iwao Miyake (acoustical); Law & Wilson, Ltd. (civil engineering & engineering review).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer		
MERRILL, PRIME CON	ROEHRIG, ONODERA & KINDER, INC							
1. A&GS	International Gateway House, University of Hawaii ¹ (January 20, 1961) \$61,725 - Fee	Merrill, Roehrig, Onodera & Kinder	Taniyama	Carleton		Drane		
MERRILL,	MERRILL, SIMMS, ROEHRIG - PRIME CONTRACTOR							
1. A&GS	New Department of Health Building, Supplements (November 3, 1959 & January 18, 1960) \$1,450 - Total Fee	Merrill, Simms, Roehrig	Morgan	Winch		Winch		
MONTGOMER	Y & KOHLOSS - PRIME CONTRACTOR							
1. A&GS	State Hospital, Central Boiler Plan* (June 1, 1961) \$1,900 - Fee			Montgomery & Kohloss				
NORMAN G.	NORMAN G. MOORE - PRIME CONTRACTOR							
1. A&GS	Rehabilitation Center for Blind & Physically Handicapped, Supplement 2* (September 14, 1959) \$500 - Fee		*					

¹Specialized work: Flambert and Flambert (food service consultants & designers).

²Specialized work: Norman G. Moore (hospital architectural consultant).

Depart- ment	Job	Architect	Structural Engineer	Mechanical Engineer	Landscape <u>Architect</u>	Electrical Engineer
NAKAHATA, PRIME CONT	KANESHIGE, IMATA & ASSOCIATES - PRACTOR					
1. A&GS	Waiakea Homestead Flood Control ¹ (June 22, 1961) \$8,475 - Fee					
2. A&GS	Dormitory, Hilo Campus (Survey), University of Hawaii ¹ (November 20, 1961) \$1,500 - Fee					·
WYNN NAKAM	TURA, LTD PRIME CONTRACTOR					
1. A&GS**	Keller Hall, University of Hawaii* (September 2, 1959) \$285 - Fee					Nakamura
2. A&GS**	Keaiwa Park, Aiea* (June 30, 1960) \$265 - Fee					Nakamura
3. A&GS**	State Hospital, Maintenance Shops* (July 19, 1960) \$350 - Fee					Nakamura
4. A&GS**	Tilapia Livebait Rearing Pond* (December 19, 1961) \$350 - Fee					Nakamura

¹Specialized work: Nakahata, Kaneshige, Imata & Associates (civil engineers).

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape <u>Architect</u>	Electrical Engineer
WYNN NAKAN	MURA, LTD. (cont.)					
5. A&GS**	McCarthy Mall, University of Hawaii* (December 19, 1961) \$710 - Fee					Nakamura
6. Trans	Highway Lights (May 18, 1962) \$1,680 - Fee					Nakamura
CLARENCE 1	. NAKASHIMA - PRIME CONTRACTOR					
1. A&GS**	Liliuokalani Building, Renovation of Basement* (September 20, 1961) \$1,500 - Fee			Nakashima		
2. A&GS**	Three-Unit Armory, Fort Ruger* (March 6, 1962) \$575 - Fee			Nakashima		
THOMAS NIS	CHIDA; DONALD LO - CRACTORS					
1. A&GS	Waimano Home Dormitory (July 27, 1959) Supplement (April 13, 1960) \$26,400 - Total Fee	Nishida	Lo	Montgomery & Kohloss		Nakamura
2. A&GS	Waimano Home, Male Treatment Building (October 12, 1961) \$23,940 - Fee	Nishida	Lo	Kohloss		Nakamura

Depart- ment	Job	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer	
JAMES J. OBERHAUSEN - PRIME CONTRACTOR							
1. A&GS**	Insectary & Plant Quarantine Station* (March 24, 1960) \$290 - Fee					Oberhausen	
2. A&GS**	Kealakekua Armory, Electrical Renovation (April 4, 1960) Supplement (May 5, 1960) \$760 - Total Fee					Oberhausen	
3. A&GS**	Maintenance Shed, Hilo, University of Hawaii* (June 30, 1960) \$77 - Fee					Oberhausen	
4. A&GS**	Ualakaa Water System* (September 28, 1960) \$75 - Fee					Oberhausen	
5. A&GS**	Poultry Farm, Waialee, University of Hawaii* (October 5, 1960) \$1,487 - Fee					Oberhausen	
6. A&GS**	Hawaii Agricultural Experiment Station, Hilo, University of Hawaii* (February 27, 1961) \$382 - Fee					Oberhausen	

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape <u>Architect</u>	Electrical Engineer
JAMES J. O	DBERHAUSEN (cont.)					
7. A&GS**	Hawaii Agricultural Experiment Station, Kula, University of Hawaii* (May 15, 1961) Supplement (June 19, 1961) \$256 - Total Fee					Oberhausen
8. A&GS**	Office Building, Hilo* (May 15, 1961) Supplements (November 7, 1961 & December 26, 1961) \$384 - Total Fee					Oberhausen
9. A&GS**	Waiakea Health Center* (June 19, 1961) \$232 - Fee					Oberhausen
10. A&GS**	Surplus Property, Addition to Warehouse Building* (June 29, 1961) \$150 - Fee					Oberhausen
11. A&GS**	Hawaii Agricultural Experiment Station, Kauai Branch, University of Hawaii* (August 29, 1961) Supplements (May 15, 1961 & June 19, 1961) \$769 - Total Fee					Oberhausen
12. A&GS**	Kapuaiwa Building* (October 26, 1961) \$2,560 - Fee					Oberhausen

Depart- ment	Job	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
JAMES J. O	BERHAUSEN (cont.)					
13. A&GS**	Honolulu International Airport, Paging System, Stage 14 (October 30, 1961) \$4,500 - Fee					Oberhausen
14. A&GS**	Kawailoa Girls' Home, Hookipa Cottage* (November 7, 1961) \$285 - Fee					Oberhausen
15. A&GS**	Kapaa Branch Library, Electrical System (December 5, 1961) \$90 - Fee					Oberhausen
16. A&GS**	State Office Building, Addition to Mezzanine Floor* (February 19, 1962) \$1,110 - Fee		·			Oberhausen
17. A&GS**	Kalaupapa, Electrical Distribution System (February 23, 1962) Supplement (May 28, 1962) \$3,900 - Total Fee					Oberhausen
18. A&GS** & Trans	Honolulu International Airport, Stage 20* (March 19, 1962) \$518 - Fee					Oberhausen

Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape <u>Architect</u>	Electrical Engineer
JAMES J. C	DBERHAUSEN (cont.)					
19. Trans	Overhead Highway Lights, Kam Highway (May 4, 1962) \$6,435 - Fee					Oberhausen
KENJI ONOL	DERA - PRIME CONTRACTOR					
1. A&GS	Addition to Agriculture & Forestry Building (September 22, 1959) \$12,500 - Fee	Onodera	Lo			Nakamura
WAYNE F. C	OWENS - PRIME CONTRACTOR					
1. A&GS	New Swimming Pool, University of Hawaii ¹ (October 12, 1961) \$5,000 - Fee	Owens	Shimazu, Matsuda, Shimabukuro & Associates	Nakashima		Bennett
STEPHEN OYAKAWA - PRIME CONTRACTOR						
1. A&GS	Aiea Branch Library ² (June 30, 1961) \$6,000 - Fee	Oyakawa	Yee & Associates		Walters	Nakamura

¹ Specialized work: Nat Whiton (borings); Sunn, Low, Tom & Hara, Inc. (topographic work).

²Specialized work: Kay Oyakawa (decorator); Walter Lum (civil engineer).

L. FREDERICK PACK ASSOCIATES OF HAWAII, LTD PRIME CONTRACTOR 1. Trans	Depart- ment	<u>Job</u>	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
(January 25, 1962) \$13,875 - Fee 2. Trans General Aviation Airfield, Oahul (May 18, 1962) \$4,140 - Fee PARSONS, BRINCKERHOFF, QUADE & DOUGLAS ENGINEERS - PRIME CONTRACTOR 1. Trans State Ferry System² (January 15, 1962) \$59,000 - Fee HAYDN PHILLIPS - PRIME CONTRACTOR 1. UH Mae Zenke Orvis Phillips Lo Caires Auditorium (March 25, 1962) \$12,800 - Estimated Fee KENNETH W. ROEHRIG - PRIME CONTRACTOR 1. HHA Alterations, Kalihi Merrill, Awaya Howlett Drane (May 25, 1962) (May 25, 1962) Onodera &							
(May 18, 1962) \$4,140 - Fee PARSONS, BRINCKERHOFF, QUADE & DOUGLAS ENGINEERS - PRIME CONTRACTOR 1. Trans	1. Trans	(January 25, 1962)					
ENGINEERS - PRIME CONTRACTOR 1. Trans	2. Trans	(May 18, 1962)					
(January 15, 1962) \$59,000 - Fee HAYDN PHILLIPS - PRIME CONTRACTOR 1. UH Mae Zenke Orvis Phillips Lo Caires Auditorium (March 25, 1962) \$12,800 - Estimated Fee KENNETH W. ROEHRIG - PRIME CONTRACTOR 1. HHA Alterations, Kalihi Merrill, Awaya Howlett Drane Valley Homes, Supplement Roehrig, Onodera & Onod							
1. UH Mae Zenke Orvis Phillips Lo Caires Auditorium (March 25, 1962) \$12,800 - Estimated Fee KENNETH W. ROEHRIG - PRIME CONTRACTOR 1. HHA Alterations, Kalihi Merrill, Roehrig, (May 25, 1962) Onodera & Howlett Drane	1. Trans	(January 15, 1962)					
Auditorium (March 25, 1962) \$12,800 - Estimated Fee KENNETH W. ROEHRIG - PRIME CONTRACTOR 1. HHA Alterations, Kalihi Merrill, Awaya Howlett Drane Valley Homes, Supplement Roehrig, (May 25, 1962) Onodera &	HAYDN PHIL	LIPS - PRIME CONTRACTOR					
1. HHA Alterations, Kalihi Merrill, Awaya Howlett Drane Valley Homes, Supplement Roehrig, (May 25, 1962) Onodera &	1. UH	Auditorium (March 25, 1962)	Phillips	Lo			Caires
Valley Homes, Supplement Roehrig, (May 25, 1962) Onodera &	KENNETH W.	ROEHRIG - PRIME CONTRACTOR					
	1. нна	Valley Homes, Supplement (May 25, 1962)	Roehrig, Onodera &	Awaya	Howlett		Drane

¹ Specialized work: Pack Associates (civil engineers).

²Specialized work: Parsons, Brinckerhoff, Quade & Douglas Engineers (consulting engineers); R. Dixon Speas Associates (aviation consultants); George G. Sharp, Inc. (naval architects & engineers).

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Depart-			Structural	Mechanical	Landscape	Electrical
ment	<u>Job</u>	<u>Architect</u>	<u>Engineer</u>	<u>Engineer</u>	Architect	Engineer

SAMSON & SMOCK CO., LTD. - PRIME CONTRACTOR

1. A&GS State Hospital, Medical-Surgical Building^{1*} (May 31, 1960) \$875 - Fee

SAMSON & ZERBE - PRIME CONTRACTOR

- 1. A&GS Classroom Building No. 2 & Health Research Institute, University of Hawaii* (January 4, 1961) \$1,885 Fee
- 2. A&GS Proposed Ordnance Company, Fort Ruger^{2*}
 (March 14, 1961)
 \$1,618 Fee
- 3. A&GS Honolulu International Airport,
 Pavement Design²
 (February 1, 1962)
 \$980 → Fee

¹ Specialized work: Samson & Smock Co., Ltd. (borings).

²Specialized work: Samson & Zerbe (borings).

Depart- ment	<u>Job</u>	Architect	Structural Engineer
JOHN N. SM	IITH - PRIME CONTRACTOR		
1. A&GS	Waiakea Mill Pond ^{l*} (April 20, 1961) \$750 - Fee		Chun
2. Leinr	Waiakea Houselots ¹ * (October 1959) \$5,250 - Fee		Chun
W. T. SPAI PRIME CONT	DING ASSOCIATES - PRACTOR		
1. A&GS	Rehabilitation Center for Blind & Physically Handicapped ² (January 13, 1960) Supplements (May 9, 1960 & November 1, 1960) \$20,812 - Total Fee		
SUMN, LOW, PRIME CONT	TOM & HARA, INC		
1. A&GS	Government Building, Kona ^{3*} (October 12, 1961) \$575 - Fee		
2. L&NR	Wailua Resort Area ^{4*} (February 1961) \$13,650 - Fee		

¹Specialized work: John N. Smith (surveys).

Shak

Electrical

Engineer

Mechanical

Engineer

Landscape

Architect

²Information on subcontractors unavailable.

³ Specialized work: Sunn, Low, Tom & Hara, Inc. (topographic work).

⁴⁻Specialized work: Sunn, Low, Tom & Hara, Inc. (civil engineers). -62-

Depart- ment	Job	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
WALTER P.	THOMPSON - PRIME CONTRACTOR					
1. A&GS	Dispensary, University of Hawaii 1* (February 16, 1962) \$400 - Fee					
RICHARD TO	NGG - PRIME CONTRACTOR					
1. Trans	New Terminal Overseas Area, Honolulu International Airport (April 18, 1962) \$34,220 - Fee	Chang	Shimazu, Matsuda, Shimabukuro & Associates, Inc.		Tongg	Bennett
R. M. TOWI	LL CORPORATION - PRIME					

R. M. TOWILL CORPORATION - PRIME CONTRACTOR

1. A&GS General Lyman Field²
& (May 5, 1961)
Trans \$34,073 - Fee

2. L&NR Ala Moana, Magic Island²
(August 1959)
\$40,400 - Fee

¹Specialized work: Walter P. Thompson (survey).

²Specialized work: R. M. Towill Corporation (civil engineers).

	Depart- ment	Job
R.	M. TOWI	LL CORPORATION (cont.)
3.	L&NR	Surveys, Construction Design, Waimanalo (November 1961) \$47,816 - Fee
4.	Trans	Relocation of Kona Airport, Study ² (October 14, 1960) \$47,200 - Fee
5.	Trans	Small Boat Harbor, Kona (October 14, 1960) \$47,100 - Fee
6.	Trans	Realignment of Kawaihae- Puako Road ⁴ (December 12, 1960)

\$6,160 - Fee

Architect

Structural

Engineer

Mechanical

Engineer

Landscape

Architect

Electrical

Engineer

¹Specialized work: R. M. Towill Corporation (civil engineers); Walter Lum Associates (soils engineers); Marine Advisers, Inc.; Robert Q. Palmer (oceanographic engineers); Austin, Smith & Associates (sanitary engineers).

² Specialized work: R. M. Towill Corporation (civil engineers).

³Specialized work: R. M. Towill Corporation (consulting engineers); Robert Q. Palmer (oceanographic engineer).

⁴ Specialized work: R. M. Towill Corporation (topographic work).

Depart- ment	<u>Job</u>	Architect	Structural Engineer
R. M. TOWI	LL CORPORATION (cont.)		
7. Trans	General Lyman Field ¹ (January 16, 1961) \$46,800 - Fee		
8. Trans	Realignment of Kawaihae- Puako Road ¹ (January 9, 1962) \$36,410 - Fee		
9. Trans	Interstate Highway from Barbers Point to Kunia Intersection ² (February 1, 1962) \$21,114 - Fee		
10. Trans	Farrington Highway from near Barbers Point Road to Piliokoi Gulch ² (February 13, 1962) \$16,974 - Fee		
11. Trans	Kawaihae-Mahukona Road ² (March 13, 1962) \$53,112 - Fee		
	 		

1 Specialized work:

²Specialized work:

R. M. Towill Corporation (civil engineers).

R. M. Towill Corporation (topographic work).

Landscape Architect

Electrical

Engineer

Mechanical

Engineer

Depart- ment	Job	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
TUDOR ENGI	INEERING CO PRIME CONTRACTOR					
1. Trans	Master Plan for Port of Kahului, Maui ^l (October 20, 1960) \$14,000 - Fee					
2. Trans	Master Plans for Hilo, Kawaihae, Nawiliwili & Port Allen ¹ (April 10, 1961) \$48,000 - Fee					
THEODORE A	A. VIERRA - PRIME CONTRACTOR					
1. A&GS	Honolulu International Airport, Passenger Terminal (May 20, 1960) Supplement (December 29, 1961) \$144,201 - Total Fee	Vierra	Lo	Hamilton		Oberhausen
2. Trans	Master Plan of All Buildings for Jet Terminal, General Lyman Field (September 27, 1961) \$17,942 - Fee	Vierra	Lo	Hamilton		Oberhausen
3. Trans	"Raised Concourse," "Furniture Overseas Area," & "Master Plan for Navy Area," Honolulu International Airport (December 29, 1961) \$51,890 - Fee	Vierra	Lo	Hamilton		Oberhausen
4. Trans	Passenger Terminal Building, Kahului Airport (March 13, 1962) \$43,400 - Fee	Vierra; Kobayashi	Lo	Hamilton		Oberhausen

¹Specialized work: Tudor Engineering Co. (consulting engineers).

Depart- ment	Job	Architect	Structural Engineer	Mechanical Engineer	Landscape Architect	Electrical Engineer
GEORGE S.	WALTERS - PRIME CONTRACTOR					
1. A&GS	Campus Roads, Drainage & Utilities, University of Hawaii (March 30, 1961) \$2,500 - Fee				Walters	
2. UH	Landscaping of Area Around Classroom Building 1, Classroom Building 2, Health Research Building, and Proposed Laboratory Classroom Building, University of Hawaii ¹ (March 30, 1961) \$624 - Fee				Walters	
NAT WHITON	- PRIME CONTRACTOR					
1. Trans	General Lyman Field ^{2*} (May 5, 1961) \$7,146 - Fee	·				
WILSON ASS	OCIATES, INC PRIME CONTRACTOR					
1. A&GS	Honolulu International Airport, Stage 20 ³ (January 31, 1962) \$22,000 - Fee					
2. Trans	Honolulu International Airport, Stages 21-22 ³ (March 21, 1962) \$22,000 - Fee					Oberhausen

¹Specialized work: Gene Granich (cost estimator).

 2 Specialized work: Nat Whiton (borings).

³Specialized work: Wilson Associates, Inc. (civil engineers).

Depart-StructuralMechanicalLandscapeElectricalmentJobArchitectEngineerEngineerArchitectEngineer

WRIGHT, HARVEY, WRIGHT - PRIME CONTRACTOR

1. A&GS McCarthy Mall, University of Hawaiil*
(October 27, 1960)
\$450 - Fee

JAMES O. YAPP - PRIME CONTRACTOR

1. Trans Subsidence Areas at Piers 1 & 2, Hilo (February 1, 1961) \$14,200 - Fee

PHILLIP K. H. YEE & ASSOCIATES - PRIME CONTRACTOR

1. L&NR Pahoa Water System³
(October 1961)
\$4,635 - Fee

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¹ Specialized work: Wright, Harvey, Wright (civil engineers & land surveyors).

²Specialized work: James O. Yapp (consulting engineer).

³Specialized work: Phillip K. H. Yee & Associates (civil engineers).

^{*}Job limited to design of equipment installations, modification of existing facilities, surveys, or similarly restricted work. Asterisk used only when the limitation is applicable but not implicit in the job description.

^{**}For this project the contracting State agency served as the prime contractor and, in turn, employed the listed prime contractor as a subcontractor.

Appendix A

PUBLIC HOUSING ADMINISTRATION

HHFA PHA 4-11-55

LOW-RENT HOUSING MANUAL: BASIS FOR SELECTING THE ARCHITECT

206,1

Selection of Architects, Engineers, and Landscape Architects

* * *

3. Basis for Selecting the Architect

a. It is the policy of the PHA not to suggest names of architects for consideration by the Local Authority. But the PHA cannot too strongly urge that this important decision be made only after a most careful investigation of the professional and technical capacities of each individual or firm under consideration; few if any decisions in the development of a project can have such material and far-reaching effects upon the project's success.

- b. The "architect" may be (1) a single firm or individual,
- (2) a small group (preferably not more than two firms), or
- (3) a large group. The employment of a large group serves

to distribute the professional work and may bring a diversity of talent into the organization but these advantages are generally outweighed by the difficulty of centering responsibility and by delays. In general, it is considered advantageous to employ local professional services, both architectural and engineering, when such services are competent and available.

c. Architects shall be selected solely on the basis of professional and technical competence, experience, knowledge of local conditions, and adequacy of organization. It is recommended that each architect considered for selection be asked to submit a statement containing information regarding his qualifications, as follows:

- (1) Date practice established;
- (2) Registration and professional status;
- (3) General educational background;
- (4) General character of normal practice (commercial, residential, etc.);
- (5) Experience in low-rent housing;
- (6) Organization and facilities;
- (7) Recent typical commissions;
- (8) Commissions on hand.

The Local Authority should give close attention to the lastmentioned consideration. No individual or firm should be selected as architect if "commissions on hand," or any other situations within the architectural organization, make it appear doubtful that the individual, or one principal member of the firm, can devote ample time to guiding and directing the development of the project design and of the working drawings and specifications.

HHFA-PHA, Wash. D.C.

Appendix B

LETTER FROM STATE DEPARTMENT OF TRANSPORTATION TO BUREAU OF PUBLIC ROADS

Letter No. 2.9336

October 6, 1961

Mr. Frank R. Carlson Division Engineer Bureau of Public Roads 340 Federal Building Honolulu, Hawaii

Dear Mr. Carlson:

This letter concerning procedures used by this office in evaluating the qualifications of prospective consultants is being furnished you in accordance with the requirements of Section 3 of PPM 40-6.

The prospective consultant's experience and qualifications for the service he is to provide is determined on the basis of (1) personal knowledge or review of qualification statements prepared by the consultant which may be available or requested from the consultant, (2) an evaluation of prior performance as a consultant for the department, or (3) by interview with the consultant or principals of the consulting firm to be engaged. The consultant's ability to perform the proposed services within the time to be specified in the agreement is evaluated on the basis of past experience and knowledge of the consultant's capabilities in light of his current organization and work load as determined by interviews with the consultant.

We do not permit consultants to engage other consultants, subcontractors or otherwise employ the services of anyone not in his direct employ to assist, at a professional level, in the work he has been engaged to perform without our prior approval in writing. Such approval is given only after a review of the qualifications of the person or persons to be so employed.

Please advise us if you need any further information as a prerequisite to the employment of consultants on federal aid highway projects in addition to your approval of the actual agreements.

Very truly yours,

J. C. MYATT Chief Engineer

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