bidders but only the one bid cited above has been received period. I have requested the Hawaiian Constructors to furnish me with additional proposals from other manufacturers period. If is requested that the distribution engineer go ison this scatter and by inquiry determine whether or not other bidders are interested and what price should be paid for the cubic way and towers desired period ready radio advice is requested.

WYMAN

Certified to be US Govt, official business:

THEODORI WYMAN, Jr., Li. Col., Curp: of Empirecry, District Regisser,

ABUT PEAR HARRIE BOARD EXHIBIT NO. 42

0.30

WAR DEPARTMENT.
OFFICE OF THE CHIEF OF ENGINEERS.
Workington, August 5, 1840.

C. of E. 676.3 (Alveraft Warning Service)

Subject: Requirements for A. W. B. Building Construction.
To: The Chief Signal Officer.

1. The Cutef of Dingineers is apprehensive as to his shiftly to accomplish the design and construction of the necessary buildings for Aircraft Warning Service with focal year funds naless definite information can be above for Signal Corps requirements. Preliminary designs of structures have been prepared but it is fest that preparation of type plans for transmission to the field can not be completed antil a definite stutement of the continue to go in each structure, and the space requirements for operation can be obtained. This information was requested by letter this office, dated May 21, 1949, subject: Requirements for A. W. S. Building Construction. C. of E. Sie 676.2 (A. W. S.), and has been requested informally at intervals since that time.

2 The Chief of Engineers is ready and anxious to cooperate in working our any details to connection with this important programs. It is considered essential that basic infomation with type plans be transmitted to the constructing agreeies, in the most funce, with authority for local determination of details. Undeer much information and necessary touch for accomplishment of the work are made available and antimority decommanded the programs will be actionally delayed.

For the Chief of Engineers:

C. L. ARCCE.

Major, Garga of Raylinders,
Extensive Officer.

Copy of C. of E. 676.3 (Aircraft Warning Service) 21.

ARMY PEARL HARBOR BOARD EXHIBIT NO. 42A

OCSigO 676.3—AWS Gen. (8-5-40)

1st Ind. 6

WAR DEPARTMENT, OCSigO, Washington, August 16, 1940.

To the Chief of Engineers.

1. Reference is made to your drawing "21 Man Barracks for AWS Station" dated April 3, 1940. This general plan and layout is suitable for fixed stations if due consideration be given to the local climate conditions and to the provision of space for heating plant as may be required. Space for personnel should be as follows:

a. Panama.

1 Officer, 22 enlisted men.

b. Hawaii.

Stations at Kokee and Haleakala. 2 detachments at each, consisting of

(1) 1 Officer, 19 enlisted men. (2) 1 Officer, 26 enlisted men.

c. All other fixed stations requiring this type of construction—1 Officer, 19

enlisted men (Puerto Rico: Alaska; Kaala, T. H.). d. Requirements at Burrwood, La., are not known at this time. If existing

barracks space is now available there will be required only space necessary to house the communications and shop equipment, office, etc. This may also be available.

In connection with the stations in Hawaii, requirement for heating cannot be definitely stated other than that, from personal experience, provision for heating the communications building at Haleakala is essential. The requirements at the other two stations (Kokee and Kaala) should be investigated before completing the final plans.

Detailed projects have not yet been received enumerating the specific items of equipment to be installed at each station; however, there will be installed

in the radio room a minimum of

a. 1 radio transmitter, 24" x 24" x 72" high, weight-1000 lbs.

2 radio receivers mounted in a rack 19" x 16" x approximately 76" high.

2 operating tables or desks, chairs, etc.

A power building located adjacent to the communications building is required for each fixed station. Except at Burrwood, La., where commercial power is available, the power building will house three power units and necessary switch-The minimum clear floor space required is 16' x 21' and ceiling height should be at least 9'. The building at Burrwood will house one power unit and should be 12' x 16' with 9' ceiling.

The communications building and power building at each station should be sufficiently removed from the detector station (minimum 300 yd.) to avoid interference with the operation of the detector. If practicable, these buildings should

be located at somewhat less elevation than the detector.

2. Reference is made to your drawing "Preliminary AWS Information Centers" dated April 25, 1940. Requirements for the plotting room are stated by the Signal Corps Board as a room at least 30' x 30' x 20' high with a balcony 9' from the floor on at least two sides of the room, the major item of equipment being a plotting board 18' x 18'. The power room is required to provide space for an emergency power unit and switchboard. This room should be approximately 12' x 15' minimum.

The telephone room and radio room should each be approximately 12' x 25' minimum, the dimensions indicated providing for the most economical use of space. It is desirable, although not essential, that the radio room be readily accessible to the outside for installation of antenna lead-ins. The office should provide approximately the amount of floor space indicated in your drawing. The

repair shop and storeroom may be reduced in area by about one-third.

3. In connection with the mobile detector stations no protection will be required for the equipment. No provision should be made at this time for quarters for

personnel at these stations.

4. The information centers in the continental United States and Alaska are contemplated as separate buildings; in the overseas departments, the information centers will be combined with the command post. The information centers in the United States will be designed as splinter-proof with provision for later bombproofing as required. Provision will not be made at this time for housing for information center personnel.

5. All equipment should be suitably housed to give it the normal protection from excess moisture as is required for radio and telephone equipment in fire

control installations.

6. It is requested that prior to their completion, plans be referred to this office, or that a representative of this office be given an opportunity to inspect such plane, in order that previation may be made for necessary states for carrying

compountation and power circuits.

7. For all building one dust from the exterior will be required for communication cable and one for power cable. The dentied requirements within the buildings are not available at this time. It is kept that this information will be available in the near ferms. There will be required for information can are and communications buildings precision for antenna lead the

For the Clated Stand Officer:

PAUL C. Gaspren. Major, Signal Corps.

ARMY PEARL HARBOR BOARD EXHIBIT No. 43

[1]

[SECRET]

By order of the Chief of Engineers 10/23/41

0/23/41 /s/ JLP War Department, Office of the Chief of Engineers,

3-N

Washington, October 23, 1941.

Refer to File No. 676.3 (AWS-Continental US)

Air Mail

Subject: Aircraft Warning Service—Foundation Drawings.

To: The Division Engineer, South Pacific Division, 1200 Balfour Building, 351 California Street, San Francisco, California.

1. Reproducible prints of drawings listed below are forwarded for use in the design and construction of foundations for antenna towers and transmitter buildings, where authorized, at approved fixed and semifixed Aircraft Warning Service Stations.

a. ES-D-6681-C, Floor Plan for Combined 36-foot Tower and Building used

with Radio Set SCR-271.

- b. ES-D-7418-A., ES-D-7419-A, ES-D-7420-A., Foundation Plan for 36-foot Tower and Building used with Radio Set SCR-271, for Three Genreral Soil Conditions.
- c. ES-D-7421-A., ES-D-7422-A., ES-D-7423-A., Foundation Plan for Tower TR-8 (100') used with Radio Sets SCR-271-A and SCR-270-C, for Three General Soil Conditions.

d. ES-D-7424-A., ES-D-7425-D., Foundation Plan and Floor Plan for Separate

Transmitter Building used with SCR-271-A.

e. ES-D-7366-B., (Secret) Relative Position of 100-foot Tower TR-8 and Separate Transmitter Building used with SCR-271-A.

f. ES-D-6859-B., (Secret) ES-D-6860-A, (Secret) Sketches of 100-foot Tower

and Separate Buildings used with SCR-271-A.

2. Drawing No. ES-D-6862, copies of which have been previously furnished to certain field offices has been superseded by the drawings listed in paragraph 1 a above, and is no longer applicable.

3. Action is being taken by the Office, Chief Signal Officer to change the classification of certain of the drawings listed above. [2] This office will furnish Division Engineers with a new set of the drawings as soon as notification of the change in classification is received.

By direction of the Chief of Engineers:

/s/ J. L. Person, J. L. Person, Major, Corps of Engineers,

Major, Corps of Engineers, Assistant Chief, Construction Section.

Inclosures: 12 Vandyke prints of drawings listed in par. 1.

Received Nov 24, 1941 at 8:00 a.m. in U.S. Engineer Office, Honolulu, T. H. as shown by receipt stamp.