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June 21st, 1953

SURVEY PROGRAM - BIKINI

TRIANGULATION

ABLE - BAKER

In the Survey Program of 6 - 13 - 53 it was pointed out that precise locations would probably be required in this area. At that time Mr. Coray and Mr. Turner were positive that there would not be a causeway connection. A triangulation program using wooden towers was proposed. This past week a profile was required and then held up. The profile seems to indicate that some consideration is being given to a causeway, in which case precise traverse would be possible. Early advice as to final plans for this area and recommendations as to methods will be appreciated.

VICTOR - ZEBRA
ALFA - Bravo

The observing party occupied Station Charlie the night of June 17th and attempted to turn the angles from Station Coca to each of the stations. Weather prevented the observations. The same observations were successfully completed the night of June 18th. The morning of the 19th, DLN memo 6088 was received. This called for precise angle and distance tie of Navy Station Air to Station Obce. Instructions were left for the observing party to make the angle tie that evening. The distance tie has already been mailed to the Home Office. After completing the angle tie, the observing party is to return to the Victor through Bravo triangulation pending instructions from the Home Office concerning the secondary triangulation on the east reef.

EAST REEF

DLN memo 6088 required that Navy Station Enyu be tied to our survey. As Navy Station Enyu and Station Nan are identical, it appears that no work is necessary.

On Wednesday, 17 June, a reconnaissance of the east reef was made. It was the intention to follow Scheme #1, Sketch 7200-QQ-15, calling for stations at locations on Sites Love, Mike and the islet north of Site King. The last named was completely submerged at a plus 1.5 tide, so I requested Mr. Turner to hold up construction on it until further notice. While engaged in writing Mr. McDaniels a wire advising him of the condition, the DLN memo 6088 arrived. This called for a tower at Site Mike only. Mr. Turner was requested to build that tower only. It was scheduled for completion yesterday, 20 June.

Upon returning to Site Elmer, I requested Mr. McDaniels to send Engasg 2103 to Mr. Narver advising him of the situation.

This operation has been the subject of much discussion and study. My impression was that the traverse method had been definitely discarded as impractical. Two weeks ago, Messrs. Coray, Van Dyne, Spain and Wynekeep made an inspection trip of the Atoll. Upon

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REVIEWER (ADD):	
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DATE: <i>7-23-54</i>	

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their return, they expressed concern over the length of time they believed a traverse would take. I assured them that there was no intention on my part to undertake the job.

The recent measurement from Station Oboe to Station Air serves to illustrate what could be expected on the reef. This is a distance of 610 feet on dry land. It was attempted every day for a week before being made and required two field crews and four laborers. A windbreak 180 feet long, weighted with a cable, was used. The orientation of the reef is practically the same, with the added complication of waiting for low tides. This would limit the number of possible working days and the working hours on those days. The precise distance called for in DLN memo 6088 is over a mile; the traverse approximately 19,500 feet.

TRAVERSE - TRIANGULATION TIES

These are required by HN 8098. A crew will start on this job Monday, 22 June. Progress will depend on transportation. If the helicopter can be used, it may be done in a week.

TOPOGRAPHY

Expect to complete all drawings by July 1st. Field work is well underway on Site Nan. Site George field work should recommence Monday; The crew working there was pulled off to work on the profile requested in HN 8064.

STATIONS 20 & 1341

HN 7926 requested Jobsite recommendation for location of Sta. 1341 and elevation at the location. The computation, based on a clear line of sight and distance as specified, was prepared while I was at Bikini. This put the station in a difficult position for construction. When I returned to Elmer and looked into the plans it appeared that a sand spit out from Site Able offered a better location. I consulted Mr. Coray and he concurred. A profile and typical sections were taken on the sand spit. From this the proposed coordinates and elevation were prepared and sent in ENRMSG 2079. Work was started on the profile. It was hampered by Dark breakdowns and waiting on the tide. The drawing on the sand spit was completed Saturday afternoon and was being prepared for mailing when HN 8126 arrived, directing that recommendations and profile be held up. The drawing was not mailed and a wire was sent to Bikini instructing the field crew to discontinue work on the profile.

TEST HOLES

The remaining three will be located and their elevations determined this week.

Barge

Construction finished; observations will be made this week.

Sand spit locations

Unscheduled.

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