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Pacific Southwest Region

HOLMES & NARVER, INC.
ENGINEERS-CONSTRUCTORS

~~RESTRICTED SECURITY INFORMATION~~

406228

TO: DAVID L. NARVER, JR. JOB: 884 O/S 6711 Page 1

FROM: R. A. BOETTCHER RE: Locations of Stations 10, 30, 1210 and 1342
Sites Dog, George and Lagoon

DATE: 4 September 1953

TELETYPE REPLY REQUESTED

NATIONAL ARCHIVES PACIFIC SOUTHWEST REGION
REPOSITORY
COLLECTION RG 326 ATOMIC ENERGY COMMISSION
BOX No. 1996624 (#608) A16334 326-65V0170
FOLDER SURVEYS AUGUST 1, 1953 ON

Survey

884-477

References:

| | | |
|---|---|---|
| Drawings | 2225 AB 17 | |
| " | 2227 DO 17 | |
| " | 2257 DO 17 | |
| " | 2215 DO 1 | |
| " | 2226 GE 17 | |

Enclosed please find three (3) copies of Misc. Drawing 115 which shows a proposed inter-relationship between stations 10, 30, 1210 and 1342. These bearings and distances were developed by the jobsite Survey Department in order to satisfy, as nearly as possible, the requirements set forth by Lt. D. W. Self (at jobsite) and as shown on Home Office Drawings as noted above.

The conditions given to us by Dave Self were as follows:

STATION 1342:

Station must be located and oriented on a line thru the W.P.s of Stations 10 and 30, but may be shifted nearer or farther from 30 in order to take fullest advantage of the topography at Site George. (Station 1342 was accordingly moved 30 feet closer to station 30. This was done during your stay at jobsite, and with your approval.)

STATION 1210:

Station must be located exactly 6900.00 feet from station 30, but the bearing may be varied slightly to take advantage of the topography.

STATION 30:

Station is to be located at N 161,850, E 116,727. (Fixed because a change in coordinates would involve many other stations.)

STATION 10:

Station is to be located at N 162,758, E 119,206. (Fixed because a change in coordinates would involve many other stations.)

It is noted that these conditions are basically the same as those shown on Home Office drawings.

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
SIGNATURE OF REVIEWING AUTHORITY: DETERMINATION (CIRCLE NUMBER(S))
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO:
3. CONTAINS NO DOE CLASSIFIED INFO
4. COORDINATE WITH:
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFO BRACKETED
REVIEWER NAME: M. Yuguna
DATE: 7/28/94

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TO:

FROM:

JOB: 884 O/S 6711 Page 2

RE: Locations of Stations 10, 30, 1210 and 1342
Sites Dog, George and Lagoon

DATE: 4 September 1953

Previous to staking any scientific structures, the Survey Department ran a check on the inter-relationship of these four stations and found that they would not develop a true net. Using the coordinates shown on the above listed drawings we arrived at the following bearings for the line 30 to 10 to 1342:

| | |
|---|---|
| 30 to 1342 | N 69 49 49.11 E |
| 30 to 10 | N 69 53 00.22 E |
| 10 to 1342 | N 69 49 11.21 E |

As shown on Home office drawings:

N 69 49 30.15 E

Because of these conflicts, it was impossible to hold the coordinates of both stations 30 and station 10, and still hold to the HO value of the bearing station 30 to 1342. In order that construction not be held up, it was necessary that some assumption be made. We reasoned that since the coordinates shown for the barges were listed to even feet, as compared to one hundreths of a foot for station 1342, and on hundreths of a second on the bearing 30 to 1342, that the location of 1342 should have priority over the locations of 10 and 30. With this in mind, we held the coordinates of 1342 (after moving it 30 feet closer to station 30) and the bearings to station 30, and we computed the coordinates of stations 10 and 30 using the same distances as below. We then set station 1210 at a distance of 6900.00 feet from station 30 using the same bearing as is shown on the Home Office drawings.

It should be noted that:

1. Stations 10, 30 and 1342 now lie on a straight line with a bearing of N 69 49 30.15 E as shown on Home Office drawings.

2. Station 1210 now lies at a distance of 6900.00 feet from station 30 as shown on Home Office drawings.

3. That stations 10 and 30 have been moved at most less than 1.5 feet from their old locations.

4. That construction has begun on station 1342, using the above location and orientations with relation to coordinates of HO P.I.'s for Dog - George.

We request your immediate attention on this problem. Please confirm by teletype the relationships shown by Misc. 115 or advise new conditions of inter-relationships which will develop within themselves, and station W.P. which will be shown on future drawing revisions.

This material contains information affecting the national defense of the United States within the meaning of the espionage laws, 50 USC 31 and 32, as amended. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

RAB:hey
cc: S.P.H. w/a
M.P.C. (2) w/a
N.W.T. w/a
I.B.M. w/a
HO Chrono
HO Central

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OS CHRONO
OS CENTRAL
OS ENG.

R. A. Boettcher
RESIDENT ENGINEER

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