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DEPLOYMENT COMPLETION REPORT

DANANG, VIETNAM
SEPT. 1965 – MAY 1966



U.S. NAVAL
MOBILE CONSTRUCTION BATTALION
EIGHT

SECTION A

(8) MCB EIGHT pioneered the use of Vietnamese laborers by Seabees in the DaNang area. The workers did an excellent job and greatly expanded the Battalion's productive effort. The Vietnamese were trained in steel tank erection, Butler and Quonset Hut construction, road repair and concrete work. One important consideration in working Vietnamese personnel is to insure that they are adequately supervised. Productive effort will be lost if a supervisor is not constantly available to direct their efforts.

9. Awards

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c. 26 March 1966 - BELCHER, Willard A., S/C, USN, was awarded the Navy Commendation Medal for meritorious service while serving as the Assistant Officer-in-Charge of the MCB EIGHT Advance Party deployed to Vietnam and while serving as Assistant Officer-on-charge of the Detached unit at Hue/Phu Bai.

U.S. NAVAL MOBILE CONSTRUCTION BATTALION EIGHT
CARE OF FLEET POST OFFICE
SAN FRANCISCO, CALIFORNIA
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4 August 1966

From: Commanding Officer, U.S. Naval Mobile Construction Battalion EIGHT
To: Commander Naval Construction Battalions, Pacific

Subj: Deployment Completion Report for Period September 1965 through May 1966; Submission of

Ref: (a) COMCBPACINST 5213.1C

Encl: (1) Deployment Completion Report

1. Enclosure (1), summarizing the Battalion's activities during the September 1965 - May 1966 deployment to DaNang, Republic of Vietnam is forwarded in accordance with reference (a).

P. A. Phelps
P. A. PHELPS

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SECTION A

Unit: USN MCB EIGHT

Administrative Summary Narrative, U.S. Naval Mobile Construction Battalion EIGHT, September 1965 through May 1966

1. Employment Status. Mobile Construction Battalion EIGHT was deployed to DaNang East, Republic of Vietnam, in accordance with COMCBPAC Operation Order 23-65 to provide construction support for U.S. Military Forces.

2. UNIT Movements.

a. An Advance Party of one officer and 69 enlisted men arrived in DaNang, Republic of Vietnam, on 26 August 1965. The main body, after changing homeport from Davisville, Rhode Island, to Port Hueneme, California, followed approximately one month later. The main body was transported in seven (7) aircraft, the last of which arrived in DaNang on 30 September.

b. A detached unit of one officer and 50 enlisted men departed DaNang for Hue/Phu Bai, Republic of Vietnam, during 9 to 31 October traveling by LCUs and helicopters. The size of the unit during deployment varied in accordance with the workload. On 18 April 1966, the OIC returned to the Battalion with all members of the detached unit except two men who stayed behind to arrange for shipment of remaining MCB EIGHT equipment. These men rejoined the battalion on 4 May.

c. Seabee Team 0805 was detached in March 1966 to commence training in Port Hueneme, California.

d. An Advance Party of one officer and 30 enlisted men departed DaNang for CONUS on 20 April. On 21 May 1966, the first of five (5) flights transporting the main body to CONUS departed DaNang. The last flight arrived at NAS, Point Mugu, California on 24 May 1966. The service provided by the Military Airlift Command during this movement of the main body via C-141 type aircraft was outstanding.

3. Significant events.

20 Aug 1965 - MCB EIGHT officially changed homeport from Davisville, Rhode Island to Port Hueneme, California.

26 Aug 1965 - MCB EIGHT Advance Party of one officer and 69 enlisted men arrived in DaNang, Republic of Vietnam.

11 Sep 1965 - Main body arrived at Port Hueneme from Davisville, Rhode Island for brief training period.

30 Sep 1965 - Last of main body arrived in DaNang, Republic of Vietnam via Military Airlift Command.

28 Oct 1965 - MCB EIGHT Camp taken under fire by a Viet Cong Unit attacking Marine Air Group 16; MCB NINE and hospital construction site. No casualties were sustained and there was no penetration of the MCB EIGHT perimeter. MCB EIGHT patrol discovered and destroyed one enemy land mine adjacent to the camp following attack.

24 Feb 1966 - MCB EIGHT in conjunction with MCB FIVE replaced span of Tourane River Bridge damaged by Vietnamese truck. Span was replaced and ready for use 39 hours after damaged.

20 Apr 1966 - Advance Party consisting of one officer and 30 enlisted men departed DaNang for Port Hueneme.

18 May 1966 - First operational off-loading of cargo at LST/LCU ramps constructed by MCB EIGHT.

21 May 1966 - First of five (5) flights transporting main body to CONUS departed DaNang. Personnel on first three (3) flights had to be transported to the DaNang Airfield by helicopter because of road blockades caused by civil strife in the City of DaNang. The splendid cooperation of Marine Air Group 16 made this lift possible.

22 May 1966 - MCB EIGHT Camp dedicated Camp Faulkner in memory of Arnold J. FAULKNER, EOH3. FAULKNER, who was attached to MCB FOUR, was killed in a construction accident while rehabilitating the Special Forces Air strip at Kham Duc. The ceremony was attended by IGEN Lewis WALT, USMC, CG III MAF; CAPT N. E. ANDERSON, Commander 30th NCR; CAPT CANAGA, Senior Medical Officer, NSA Hospital; LCDR TOMBARI, Commanding Officer MCB SIX; and several other dignitaries.

4. Major Problems.

a. The Battalion with an average on board strength of 394 men during the DaNang Deployment, was significantly below authorized strength. Since certain overhead functions, for example security, are not directly related to Battalion strength, the percent of personnel available for direct labor was below the planning norm. A timely increase in the on-board count would have permitted a considerably higher productivity. A graphic presentation of the personnel situation is contained in the following chart:

b. On two separate occasions civil disturbances in DaNang City and DaNang East caused construction projects to be secured for periods ranging from a few hours to several days. The purpose in discussing the problem here is not with the expectation that it will be resolved but to show the effect on productive labor in the field. During 1-7 April and 16-24 May approximately 750 man days of direct labor were lost on the LST ramp project alone because of the disturbances. At the end of May the effect was widespread in that all construction projects were affected. Direct labor, averaging about 40 percent early in May, dropped to 37 percent at the month's end. During the last several days of the deployment civil strife necessitated securing all job sites except for security watches. Relief on the job sites by the relieving battalion, although planned in some detail to avoid loss of productive effort, was impossible due to the critical situation.

c. Lack of timely material support, although not a general problem, did have an adverse affect on production in several instances.

(1) Materials in DaNang frequently were delayed several weeks in getting to the detached unit at Hue/Phu Bai. Commercial rail was available at times but generally unreliable due to enemy sabotage. Also, materials were often stolen in transit. Military vessels and trucks, and commercial trucks were utilized but the availability of these vehicles depends on the operational priority which could be assigned. The supply of materials to Hue/Phu Bai continued to exist as a problem when the battalion departs Vietnam.

(2) Delays in the arrival and off-loading of butler buildings for the NSA Covered Storage Project caused the inefficient shifting of large work crews on that project. It is considered that as better shipping (planning) information is made available and when port facilities under construction are completed to permit more material stockpiling this problem will be alleviated to some extent.

(3) There was no military "in country" source of acetylene for welding and cutting. The available source of bottled acetylene was through BPAC DET OKINAWA. However, this necessitated special handling and resulted in a loss of man hours because of a requirement for a man to accompany the bottles to and from Okinawa.

(4) Bottled oxygen for cutting and welding also was in short supply. Oxygen was obtainable from the Lox Plant at the DaNang Airfield; however, this source was not reliable as the plant was frequently down. Furthermore, aviation and medical units had priority over Seabees for oxygen supplies.

(5) Three inch minus rock for base course material was supplied by local contractors. Many times the slow delivery of this material controlled job progress. Expanded sources of rock must be made available and the rate of supply should be increased to more closely meet construction demands.

d. Equipment problems and recommendations are discussed in Section B.

e. Sand erosion under strongback tents presented a tremendous maintenance problem during the spring and summer months when the sand was dry and high winds were prevalent. Sand bagging of the runners and enclosing the windward side of the floor supporting structure with plywood proved to be acceptable solutions.

SECTION A
Administrative Summary Statistics
for
September 1965 through May 1966

1. Personnel summary average for deployment.

	ON BOARD AT DEPLOYMENT SITE	ATTACHED BUT NOT AT DEPLOYMENT SITE	TOTAL PERS ASSIGNED	CHANGES DURING PERIOD	
				RECEIPTS	TRANSFERS
E-9	00	00	00	00	00
E-8	05	01	06	00	01
E-7	25	04	29	16	06
E-6	29	09	38	22	08
E-5	49	08	57	42	09
E-4	129	16	145	72	63
Non-Rated	157	19	176	143	55
Total	394	57	451	298	142
Officers	19	03	22	08	04

Breakdown of personnel attached but not at deployment site.

	DETACHMENT	SEABEE TEAMS	REAR ECHELON	ADV/DELAY PARTY	SCHOOL	HOSP	BRIG	LV	TAD
OFF.	01	01	00	00	00	00	00	00	00
ENL.	30	03	01	08	04	00	00	00	03

2. Total Reenlistments for Deployment.

- a. Separations eligible for reenlistment: 113
- b. Reenlistments: 21
- c. Not recommended for reenlistment: 11
- d. Personnel receiving separation interviews: 166

3. Safety.

a. Monthly Accident Summary

	On Duty	Off Duty	Lost Man Days	\$ Damage
First Aid	126	08	NA	NA
Lost Time	05	00	26	NA
Vehicle	04	00	NA	\$ 47.00

4. Total Discipline cases for Deployment.

No. cases heard at Captain's Mast: 67 Awarded NJP: 60
Awarded Court-Martial: 5

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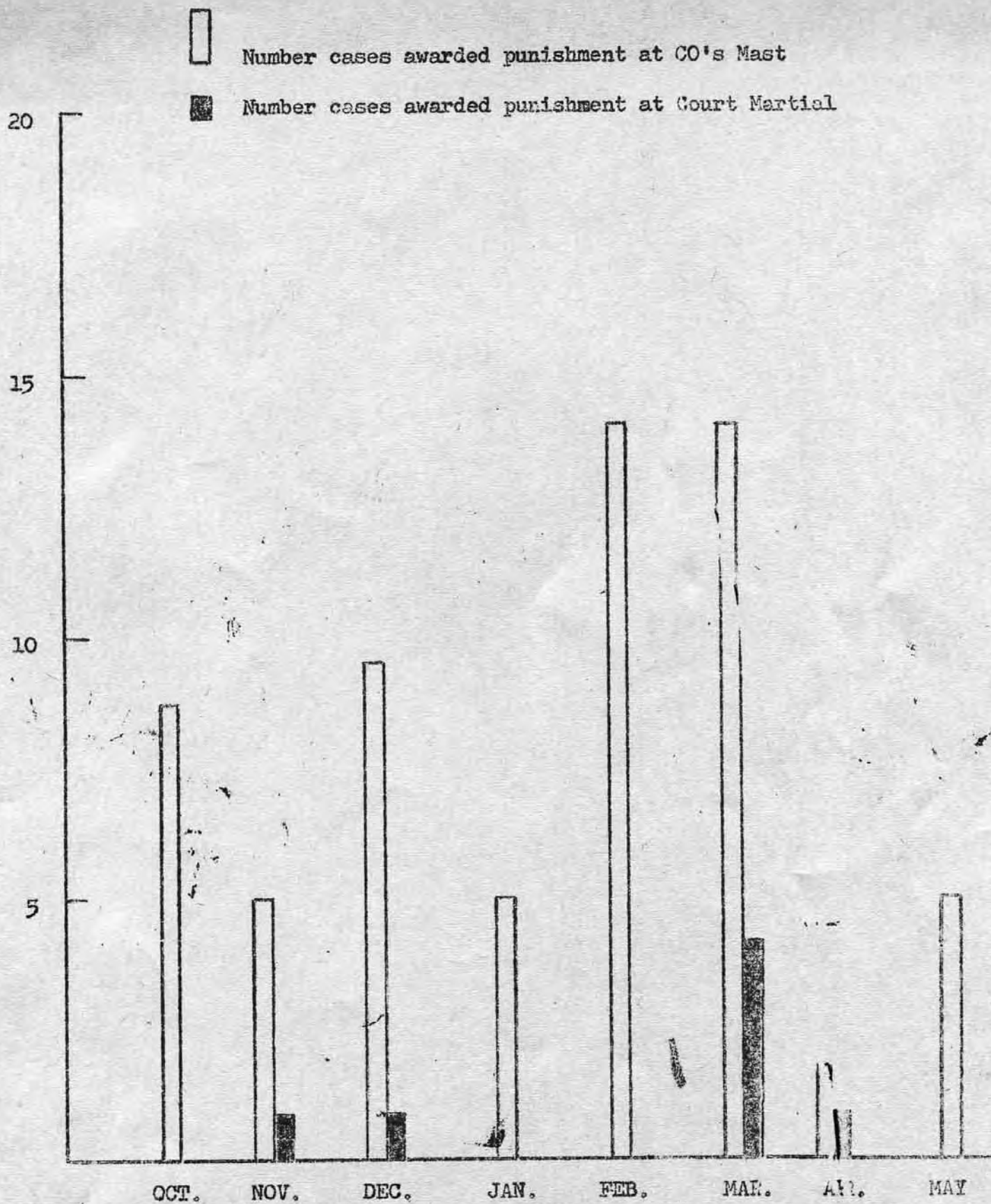
a. Monthly Accident Summary

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DISCIPLINARY CASES



5. Morale

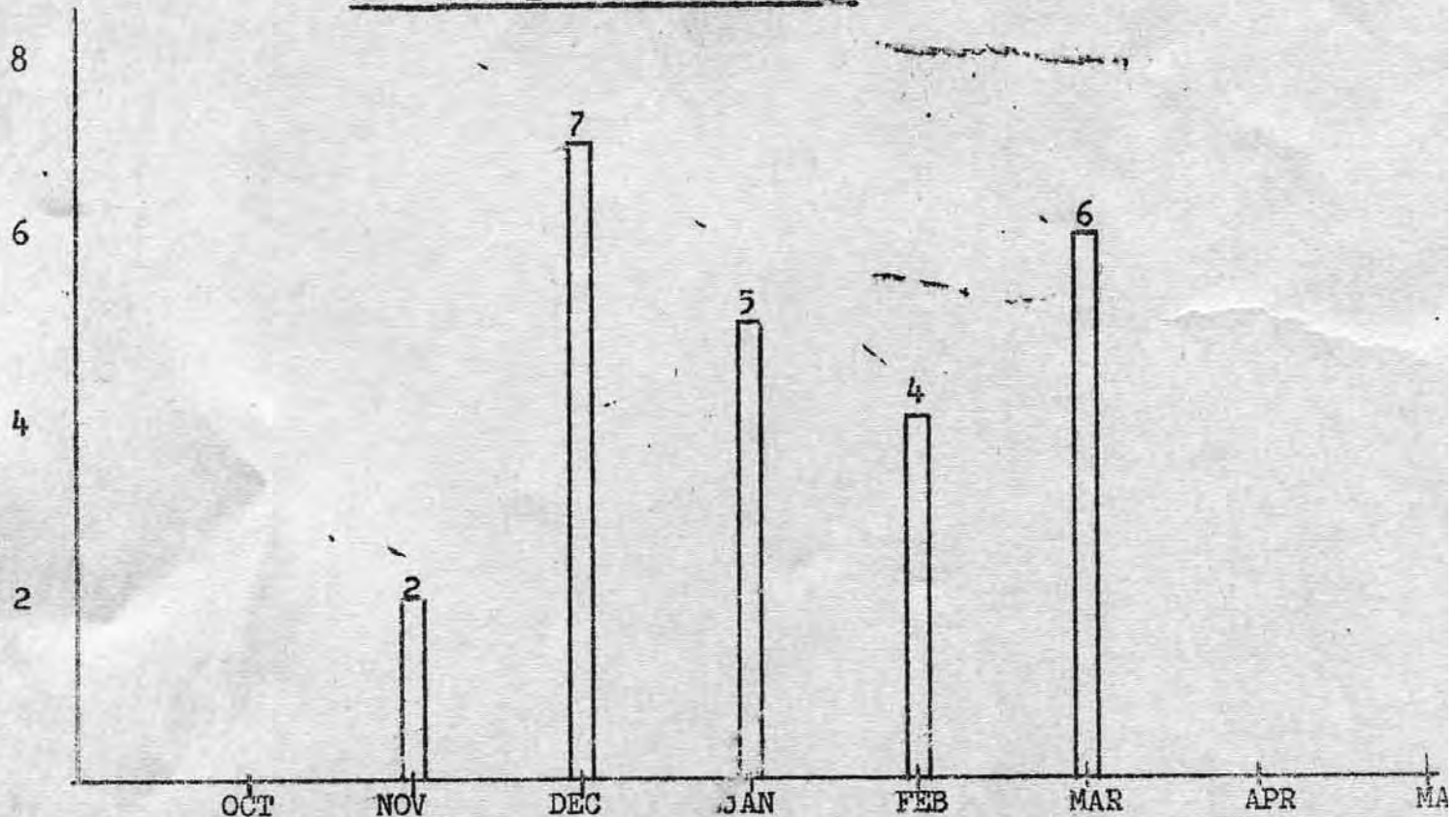
a. Despite very limited liberty opportunities, morale remained excellent during the entire deployment. Rest and Recreation trips to Hong Kong, Okinawa, Japan and Thailand were important morale boosters as were the USO shows. MCB EIGHT was fortunate in hosting the Eddie FISHER show in December at the MCB EIGHT Camp. Special Services promoted leisure time sports activities in camp and arranged for Red Cross girls to present entertainment programs on occasional Sunday afternoons. Daily swimming parties were held on the China Sea Beach after working hours.

b. Berthing provided by MCB EIGHT was good. Berthing conditions improved during the last month of the deployment as more berthing spaces were converted to metal roofs.

c. Messing provided by MCB EIGHT was outstanding. The excellent reputation of Battalion meals is a credit to the ingenuity and ability of MCB EIGHT cooks.

6. Medical/Dental.

a. Total patients teated at sick call:	4,328
b. Number hospitalized:	95
c. Dental patients treated: Military:	800
	Vietnamese: 712
d. Total dental procedures: Military:	2,649
	Vietnamese: 1,460
e. Total Number V.D. cases:	31

NEW VENEREAL DISEASE CASES

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7. Chaplain Activities:

- a. Number of services: 92
- b. Average attendance: 40

8. Public Relations

- a. FHINC releases: 90
- b. Other news releases: 61
- c. Newspaper issues published: 31

d. People to People and Community Relations Activities: This program consisted of medical and dental assistance to nearby villages and orphanages, financial support for student's education, and construction skills indoctrination.

(1) The Battalion's doctor and dentist made weekly visits to villages and orphanages in the DaNang East area to treat the Vietnamese people (an average of 400 people were treated monthly). Corpsmen, and when necessary, security personnel accompanied the doctors on their visits. The assistance of an interpreter was available on occasion through the III MAF Civil Affairs Office.

(2) Clothes, candy, soap, toys, school supplies, and recreation equipment obtained through III MAF Civil Affairs and private donations from church groups in CONUS were distributed primarily to villages adjacent to the camp.

(3) A playground swing was made and installed at the elementary school in Non Nuoc hamlet.

(4) A Christmas party was held for over two hundred orphans in DaNang East at which a typical Christmas dinner was served and gifts distributed. Also, at Christmas the security platoon purchased clothing for 115 children of Hoa Long village. The gifts, which were distributed through the village chief, were well received and the children became quite fond of the Seabees.

(5) A scholarship fund drive was held in March and April to collect funds for education of eligible Vietnamese children. A goal of \$900 was set. The drive received the enthusiastic support of the Battalion and \$1,140 was contributed. The funds were turned over to the WEC missionary in DaNang for administration.

(6) Seven MCB EIGHT volunteers painted the interior of the Tin Lanh Church in the village of Dong Giang as a civic action project.

(7) One problem experienced in the civic action program was the difficulty in controlling the Vietnamese people when welfare items were distributed. In most cases the people would crowd and push to the front in an attempt to get the clothing, food, etc., being handed out. Without an interpreter, control generally was impossible. With an interpreter, a counter or other means of separating the donors from the crowd, and a little luck the items could safely be given away.

SECTION A

(8) MCB EIGHT pioneered the use of Vietnamese laborers by Seabees in the DaNang area. The workers did an excellent job and greatly expanded the Battalion's productive effort. The Vietnamese were trained in steel tank erection, Butler and Quonset Hut construction, road repair and concrete work. One important consideration in working Vietnamese personnel is to insure that they are adequately supervised. Productive effort will be lost if a supervisor is not constantly available to direct their efforts.

9. Awards

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SECTION B

Unit: USMC BRIGHT

Equipment Status

1. Average summary of equipment status September 1965 through January 1966.

- | | |
|---|----|
| a. No. vehicles deadlined first of month: | 7 |
| b. No. vehicles removed from deadline during month: | 12 |
| c. No. vehicles added to deadline during month: | 13 |
| d. No. vehicles deadlined end of month: | 10 |

2. Average summary of equipment status February through May 1966.

TYPE OF EQUIPMENT	Number Assigned	Number Borrowed	Total on hand	During Reporting Period Added to D/L	Period Off D/L	Total number D/L at end of period
Automotive						
P25A	121	0	121	.50	.50	.25
Augment	6	0	6	0	0	0
Construction						
P25A	99	0	99	2.5	2.5	5.5
Augment	28	1	29	0	.50	.25
Material Handling						
P25A	6	0	6	.25	0	.50
Augment	0	0	0	0	0	0

The Battalion's construction effectiveness was greatly enhanced by the exceptionally low equipment deadline rate. This accomplishment is a credit to the ability, resourcefulness and devotion to duty of the "A" Company mechanics and supervisors.

3. Comments and recommendations.

- (a) Code 2420, Transit Mixers - The commercial chassis employed for these units were inadequate for off highway operations. Recommend military 6X6, truck chassis be used. In cases where a deployed unit receives 30 ton cranes and similar heavy equipment, it is suggested that a 10 ton truck tractor and 50 ft lowboy trailer be made available for use in transporting these units. Although these items were on the VCB-8 Allowance, they were not assigned.

(b) Code 5410, "Aerol" Portable steam cleaning units proved inadequate for field use due to high breakdown rate. Recommend procurement of shop type, electrically operated commercial cleaners.

(c) Case Front End Loaders - Hydraulic steering pumps failed frequently even after recommended modifications were made. Battalion utilized pumps from 5 ton military trucks to correct this problem.

(d) One cylinder engines on centrifugal and diaphragm water pumps were unsatisfactory for continuous pumping operations. Battalion high capacity pumps had to be supplemented with borrowed equipment to sustain operations on LST/LCU Ramps Project.

(e) Brake wear on most equipment was abnormally high during the Vietnam deployment due to the severe weather and operating conditions. Replacement allowances of these repair parts were almost doubled to keep pace with repairs.

SECTION C

Unit: USN MCB EIGHT

Training report for September 1965 - May 1966.

1. Formal training during the deployment consisted primarily of military and leadership training. A certain amount of technical training was accomplished on the construction jobs, however, this program was limited by productive work demands. Most training was conducted at times when it did not interfere with productive work.

a. Military training was continuous and consisted of weapons firing and indoctrination, patrol training, booby trap training, coordination drills, and weapons inspections. A reaction platoon was established within Headquarters Company. The platoon received a considerable amount of training in patrolling procedures and weapons indoctrination from battalion security personnel and from near by Marine units.

b. Leadership training was conducted on a biweekly basis utilizing Battalion Officers and Chief Petty Officers as instructors. The presentations were informal in nature and generally consisted of a 5-20 minute talk followed by a discussion period. The Chaplain, as a part of the program, gave a 30 minute presentation to all hands regarding the religions and customs of the Vietnamese people. All personnel checking into the Battalion were interviewed by the Commanding Officer and in addition, received an indoctrination into Battalion procedures and responsibilities through a program administered by the Executive Officer.

SECTION D

UNIT: USN MCB FIGHT

Labor Distribution report for period October through May 1966

MANDAYS

<u>DIRECT LABOR</u>	<u>UNIT</u>	<u>OTHER</u>	<u>TOTAL</u>	<u>PERCENT</u>
Total CD direct labor	37,902	1,040	38,942	
Total fill in	1,649	0		
Total direct labor	39,541	1,040	40,591	38.0

<u>INDIRECT LABOR</u>	<u>TOTAL</u>	<u>PERCENT</u>
X01 Const. Equip. maintenance	7,809	
X02 Operations and Engineering	3,905	
X03 Project supervision	7,490	
X04 Project expediting	256	
X05 Location moving	3,358	
X06 Project material support	614	
X07 Tool and spare parts issue	2,384	
Total indirect labor	25,816	24.0

<u>Military Operations and Readiness</u>	<u>TOTAL</u>	<u>PERCENT</u>
M01 Military operations	638	
M02 Military security	9,426	
M03 Embarkation	1,063	
M04 Unit movement	964	
M05 Mobility preparation	116	
M06 Contingency material readiness	605	
M07 Military Admin. functions	288	
M08 Mobility and defense exercises	36	
M09 Other	99	
Total Military Operations and Readiness	13,235	12.0

<u>Disaster Recovery Operations</u>	<u>TOTAL</u>	<u>PERCENT</u>
	0	0.0

<u>Training</u>	<u>TOTAL</u>	<u>PERCENT</u>
T01 Technical Training	232	
T02 Military Training	436	
T03 Disaster Recovery Training	3	
T04 Leadership Training	158	
T05 Safety Training	12	
T06 Training Administration	73	
Total Training	914	1.0

Total Productive labor	80,556	75.0
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SECTION D

Overhead LaborTOTALPERCENT

Y01 Admin. and Personnel	3,610	
Y02 Medical and Dental Depts.	1,529	
Y03 Ship's Service and Special services	621	
Y04 Supply and Disbursing	1,318	
Y05 Commissary	7,156	
Y06 Camp upkeep and repair	3,889	
Y07 Security	870	
Y08 Leave and liberty	3,522	
Y09 Sickcall, Dental, Hospital	1,352	
Y10 Personal affairs	463	
Y11 Lost time	328	
Y12 TAD not for unit	1,578	
Y13 Other	30	
Total overhead labor	26,326	25.0
Grand Total	106,882	100.0

UNIT: USN MCB EIGHT

1. Narrative

a. During the DaNang deployment MCB EIGHT was primarily employed in the construction of port facilities, cantonments, storage facilities and galleys with about 38,000 mandays or 96 percent of the direct labor effort going into these areas. Actual distribution of direct labor is shown on the following chart.

PERCENT OF TOTAL DIRECT LABOR EXPENDED

by Major Project Category

PROJECT	Total Direct Labor Expended (1000 Man Days)												% of Total
	2	4	6	8	10	12							
Cantonments													33
Port Facilities													30
Storage Facilities													27
Galleys													6
Miscellaneous													4
													100%

b. Productivity - The dollar value of construction materials (only includes those materials which were purchased, the value of sand and latterite were excluded) in place is an indicator of construction productivity and by using the average figure for all battalions in-country estimates of materials required to support the battalions can be prepared. Despite several periods of material shortages, one of which is evident by the low material figure in March, the Battalion was able to exceed the guideline of \$30.00 per Manday of direct labor. Figures for each month and the total value of material in place are shown on the following chart.

PRODUCTIVITY CHART

MONTH	Man Days Direct Labor	Value of Material in Place	Dollars per Manday
OCT.	4,803	43,055	\$ 9.21
NOV.	5,034	108,976	22.20
DEC.	5,634	238,500	42.80
JAN.	6,103	166,396	27.80
FEB.	5,248	120,570	23.60
MAR.	4,699	92,344	20.10
APR.	4,558	184,085	41.10
MAY	4,512	372,458	84.86
TOTAL	40,591	\$ 1,326,384	\$33.48 ✓

c. Project Design and Specifications - Most work orders were issued to the Battalion with very little design or descriptive detail and frequently the drawings were not dated or signed. In order for the project officers to have the engineering data and drawings to construct a facility, it was necessary for the Operations Department to provide this information. Battalion Engineering Departments should be properly staffed for this workload. Regarding the unsigned and undated drawings, this matter should be corrected by the activity issuing the drawings.

d. Materials Cost Estimating - As a part of the construction reporting requirements, the value of materials in place is computed on a monthly basis. However, due to the absence of a standard cost estimating reference guide, it was difficult to ensure uniformity in reporting costs. One battalion may have reported the value of a standard 40' X 100' Bulter Building as \$5,000 while another used a figure of \$7,000. Uniformity of estimating should be achieved so that a realistic comparison of the costs can be made.

e. MCB Camp Construction

(1) The MCB EIGHT Advance Party, in constructing Camp Faulkner, built a temporary galley and messhall with the intent of improving the facility at a later date. The galley was tin covered with a plywood deck and the messhalls were canvas covered strongbacks. Because of the press of construction projects outside camp it was impossible to make other than minor improvements to the galley and messhalls later during the deployment. It is considered to be extremely desirable to construct a standard 500 man galley (larger if necessary) immediately when arriving in country.

(2) Potable Water Supply - The monsoons stopped about 15 February and very little rain was received in the MCB EIGHT camp during the spring and early summer. The water level in the camp well dropped and a Water shortage appeared imminent. Adjacent units were experiencing difficulty with their wells. This problem was resolved by excavating a sump in a low area of the camp and using this water for showers and other non potable needs. This relieved the demand on the water well and a shortage did not occur.

(3) Camp defenses and bunker construction - The MCB EIGHT Camp was situated on a relatively high, sandy area in respect to adjacent terrain, with excellent 360 degree visibility. Perimeter defenses consisted of (inside to outside) double apron wire, diagonal 4 strand barb wire fencing, single concertina and triple concertina. This security fencing proved very satisfactory and was not penetrated although probes were attempted on several occasions. Defensive bunkers were constructed of heavy timbers with two layers of sandbags on the top. This type of construction was adequate to withstand the effects of 81 mm mortars. A picture of a typical bunker is shown in the photographs in section J.

f. Concrete batching - With the advent of work at the NAS Covered Storage site, the Battalion began construction of a drive-through type concrete batching plant to mix the thousands of cubic yards of concrete required for the project. The plant was composed of two aggregate batching bins and a separate cement hopper fabricated by the Battalion. The structure was elevated on 12" X 12" timbers. Water was initially provided from tank trucks and then later from an elevated tank. The plant operation proved to be very satisfactory with the only difficulty being the quality of sand and aggregate. The sand was exceptionally fine and contained some silt. Due to maintenance difficulties the rock crusher frequently could not produce clean aggregate. Excessive fines

sand volume.

g. Self Help Program in Cantonment Construction - Marine Units were quite eager to assist in the construction of their camps by providing ^{men} to work with the Seabees. Maximum use was made of these men particularly at Hue/Phu Bai and on the 5th Communications Battalion Cantonment in Da Nang East. It enabled MCB EIGHT to accomplish more work than planned and it enabled earlier completion of the cantonments. This source of labor is valuable and should be fully utilized.

h. Use of Indgeinous Labor - MCB EIGHT hired several Vietnamese laborers early in 1966 to evaluate the performance. It was soon found that the people were steady workers and learned construction skills rapidly. Maximum production was obtained by working the Vietnamese in fairly small groups with a Seabee worker - supervisor in charge. When the size of the crew was expanded to thirty men, an interpreter was hired to facilitate better communications with the workers. The Vietnamese workers were transferred to MCB SIX when relieved by that battalion.

i. General - During the Da Nang deployment valuable construction experience was gained. Time estimates for constructing facilities were constantly being reduced as improved methods were developed. It was discovered that the use of Huck Fastners in securing tin to Butler Buildings significantly reduced the time for erection. MCB EIGHT personnel developed the procedure for marking and punching Butler Building roof sheeting using the "Pole Punch" method that speeded up work and reduced labor requirements. Details of this operation were provided CBPAC and battalions in-country by separate correspondence. It was found to be faster and more economical in good weather to pour the floor slabs of the NSA Butler Building complexes before erection of the steel framing rather than during the siding and roofing operation. Less damage resulted to the foundation and piers and a working surface was gained. A mixture of latterite to sand in the ratio of about 1-8 or 1-10 proved to be an excellent road surface if well drained. Sand alone was impassable in dry weather and a predominately latterite road became a quagmire in wet weather. The following chart provides realistic estimates on various type of advanced base construction.

MANDAY ESTIMATES FOR TYPICAL STRUCTURES

Type of Construction	Mandays Req. (Exper. crew)
40' x 100' Butler Building with 6" Reinforced Concrete Slab	198
16 x 32 Strongback Tent with canvas roof	11.5
Conversion of 16 x 32 Strongback tent with canvas roof to corrugated metal roof.	6.0
16 x 32 Frame Structure with corrugated metal roof.	14.5

SECTION F

CONSTRUCTION ITEM SUMMARY

Unit: USN MCB EIGHT

Period Ending: 10 November 1965

C.I. No. 1503-002

Title: Museum Pier Staging Area,
Placing Base Course

Description: Construct a 4" base course using 3" minus rock.

Location: Da Nang

Narrative: This project involved a small amount of grading prior to spreading and compacting a 4" base course of 3" minus rock. The work was delayed at times by the slow delivery of rock from the civilian contractor.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	3 NOV 65	3 NOV 65
2. Comp. Date	6 NOV 65	10 NOV 65
3. Percent Comp.		100%
4. Direct MD		
a. Unit	12	19
b. Other Mil	0	0
c. Civilian	0	0
5. Indirect MD		12
6. Support MD		0
7. Support Costs (Project Funds)		0
8. Equipment Costs (O & MN)		Not available
9. Material in Place		\$1,220
10. Equipment. Motor grader, tandem roller		

CONSTRUCTION ITEM SUMMARY

Unit: USN MCB EIGHT Period Ending: 17 December 1965
 C.I. No. 6PEAO7 Title: Tien Sha Ramp, stabilization of
 C.I. Cost: Not Available
 Description: Construct a 4" base course using 3" minus material
 Location: Da Nang East

Narrative: Work consisted of spreading and compacting 3" minus rock after doing some preliminary grading. It was necessary to coordinate work with the shore party unit so ship offloading across the beach would not be impaired. The rate of progress was governed by the slow delivery of rock by the civilian contractor. On several occasions delivery of rock was halted.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	6 NOV 65	13 NOV 65
2. Comp Date	21 NOV 65	17 DEC 65
3. Percent Comp.		100%
4. Direct MD		
a. Unit	50	74
b. Other Mil.	0	0
c. Civilian	0	0
5. Indirect MD		46
6. Support MD		0
7. Support Costs (Project Funds)		0
8. Equipment Costs (0 8MN)		Not available
9. Material in Place		\$9,740
10. Equipment. Motor grader, tandem roller.		

SECTION F

CONSTRUCTION ITEM SUMMARY

Unit: USN MCB EIGHT

Period Ending: 12 January 1966

C.I. No. 1509-007

Title: Security Fence, 30NCR Yard

C.I. Cost: Not Available

Description: Construct a 14 strand barbed wire security fence around the 30 NCR Storage Yard. Construct a triple concertina fence outside the barbed wire fence at each end of the yard.

Location: Da Nang East

Narrative: This project consisted of construction of a security fence composed of both barbed wire and triple concertina around the perimeter of the 30 NCR Storage Yard. Difficulty was encountered in putting the fence through a low, marshy area. Heavy rains during the construction period made the conditions more adverse than normal.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	10 DEC 65	10 DEC 65
2. Comp. Date	1 JAN 66	12 JAN 66
3. Percent Comp.		100%
4. Direct MD		
a. Unit	185	200
b. Other Mil.	0	0
c. Civilian	0	0
5. Indirect MD		141
6. Support MD		0
7. Support Costs (Project Funds)		0
8. Equipment Costs (O & MN)		Not available
9. Material in Place		\$4,890
10. Equipment. Crawler Tractor.		

SECTION F
CONSTRUCTION ITEM SUMMARY

Unit: USN MCB EIGHT

Period Ending: 21 January 1966

C.I. No. 6PAAC4

Title: INM 163 Cantonment

Description: Construct 33 strongbacks, two 8-hole latrines and one shower building.

Location: Hue Phu Bai

Narrative: Due to higher priority work for the MCB EIGHT Detachment and the customer self-help capability, most of this project was done by the Marine Unit with MCB EIGHT providing only Seabee supervisors and pre-cut materials.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>	<u>Remarks</u>
1. Start Date	25 OCT 65	25 OCT 65	
2. Comp. Date	20 JAN 66	21 JAN 66	
3. Percent Comp.		100%	
4. Direct MD			
a. Unit	923	239	
b. Other Mil.	0	*	*No records kept of customer self help mandays
c. Civilian	0	0	
5. Indirect MD		107	
6. Support MD		21	
7. Support Costs (Project Funds)		\$379	
8. Equipment Costs (C & M)		Not available	
9. Material in Place		\$21,457	

CONSTRUCTION ITEM SUMMARY

Unit: USN MCB EIGHT

Period Ending: 25 January 1966

C.I. No. 6PGA21

Title: 5th Comm. Batt. Butler Building

C.I. Cost:

Description: Construct a 40' X 100' Butler Building with 6" concrete slab deck.

Location: Da Nang East

Narrative: This project included the site preparation for and the construction of a 40' X 100' Butler Building complete with electrical service.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	5 DEC 65	5 DEC 65
2. Comp. Date		25 JAN 66
3. Percent Comp.		100%
4. Direct MD		
a. Unit	160	146
b. Other Mil.	0	0
c. Civilian	0	0
5. Indirect MD		32
6. Support MD		0
7. Support Costs (Project Fnds)		0
8. Equipment Costs (O & M)		0
9. Material in place		5,020
10. Equipment. Dozer, crane, transit mixer truck.		

SECTION F

CONSTRUCTION ITEM SUMMARY

Unit: USN MCB DAUGHT

Period Ending: 17 February 1966

C.I. No. 6PAA21

Title: Naval Support Activity Galley - Messhall

C.I. Cost: Not Available

Description: Construct a three Butler Building complex in a T-shaped configuration to house a 1,000 man messhall, officers' and CPO's mess, galley, scullery and offices.

Location: Da Nang East

Map Series: L701, Sheet 6659 II, BAI BAC

Grid Coordinates: 061820

Narrative: After pouring the foundation in early November, work was delayed approximately two (2) weeks because the N7B component was not available. The structural steel was erected, the siding installed and the under slab plumbing completed during December. During January the roofing was completed. Installation of the interior electrical and utilities systems and construction of the interior partitions and messhall tables commenced during January. The project was completed 17 February 1966 and the first meal served on 22 February.

The use of "Huck" Fasteners to install the roof proved to be a valuable time saver.

	<u>PROGRESS DATA</u>	
	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	14 OCT 65	14 OCT 65
2. Comp. Date	15 MAR 66	17 FEB 66
3. Percent Comp.		100%
4. Direct MD		
a. Unit	2562	1935
b. Other Mil	0	0
c. Civilian	0	0
5. Indirect MD		1290
6. Support MD		50
7. Support Costs (project Funds)		\$300.00
8. Equipment Costs (O&M)		Not available
9. Material in Place		\$79,376.00
10. Equipment.	Mobile crane, transit mixers, Fork lift, 5K floodlight trailer, ARC welder, "Huck" Guns	

CONSTRUCTION ITEM SUMMARY

Unit: USM MCB EIGHT

Period Ending: 22 February 1966

C.I. No. 6PEAO3

Title: Lighting 30MCR Yard

C.I. Cost: Not Available

Description: Install security lighting for 30 MCR Yard.

Location: Da Nang East

Narrative: This project required MCB EIGHT to design and construct a security lighting system for the 30 MCR Yard supply yard. Work was begun but was soon halted due to lack of materials. When the required materials became available, the work was completed.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	8 DEC 65	8 DEC 65
2. Comp. Date	23 DEC 65	22 FEB 66
3. Percent Comp.		100%
4. Direct MD		
a. Unit	10	12
b. Other Mil.	0	0
c. Civilian	0	0
5. Indirect MD		30
6. Support MD		0
7. Support Costs (Project Funds)		0
8. Equipment Costs (O&M)		Not available
9. Material in Place		\$17,980
10. Equipment. Line truck, earth auger		

SECTION F
CONSTRUCTION ITEM SUMMARY

Unit: USN MCB HIGHT

Period Ending 24 February 1966

C.I. No. 6PPA04

Title: "A" Med. emergency operating facility

C.I. Cost: Not Available

Description: Construct two 20' X 48' Quonsets for use as an operating room and recovery ward.

Location: Hue Bhu Bai

Narrative: Site preparation for this project began in late October. However, the Quonset Huts did not arrive until the latter part of January. The actual erection of the buildings began in early February and all work was completed 24 February 1966.

	<u>PROGRESS DATA</u>		
	<u>Orig. Est.</u>	<u>Actual to Date</u>	<u>Remarks</u>
1. Start Date	23 OCT 65	23 OCT 65	
2. Comp. Date	7 FEB 66	24 FEB 66	
3. Percent Comp.		100%	
4. Direct MD			
a. Unit	350	313	
b. Other Mil.	0	0	
c. Civilian	0	*	* Concrete pours were made with the assistance of a civilian contractor. No records were kept of the civilians time.
5. Indirect MD		214	
6. Support MD		7	
7. Support Costs (Project Funds)		\$117	
8. Equipment Costs (O&M)		Not available	
9. Material in Place		\$3880	

CONSTRUCTION ITEM SUMMARY

Unit: USN MCB HIGHT

Period Ending: 7 March 1966

C.I. No. 6PAA39

Title: Force Logistic Support Unit #2 Cantonment

Description: Construct 80 strongbacks, three 8-hole latrines, one shower building and one 500-man modified galley.

Location: Hue Phu Bai

Narrative: The facilities constructed were of standard design and no significant problems were encountered in their construction other than those related to materials supply discussed earlier. Marine personnel with Seabee supervision accomplished much of the work.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>	<u>Remarks</u>
1. Start Date	4 Nov 65	4 Nov 65	
2. Comp. Date	1 MAR 66	7 MAR 66	
3. Percent Comp.		100%	
4. Direct MD			
a. Unit	2100	505	
b. Other Mil.	0	*	* No record was kept of custom self-help man
c. Civilian	0	0	
5. Indirect MD		367	
6. Support MD		22	
7. Support Costs (Project Funds)		\$421.00	
8. Equipment Costs (OWM)		Not available	
9. Material in Place		\$31,652.98	

SECTION 1
CONSTRUCTION ITEM SUMMARY

Unit: USN MCB EIGHT

Period Ending: 17 March 1966

C.I. No. 6PEAO6

Title: 2 Batt. 1 Marine's Butler Building.

C.I. Cost: Not Available

Description: Pour slab for one Butler Building

Location: Hue Phu Bai

Narrative: Erection of a Butler Building was originally included in the scope of work, however, it was later deleted. The foundation was poured in late October. The slab pour, however, was delayed until mid-March due to higher priority work.

PROCESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>	<u>Remarks</u>
1. Start Date	20 OCT 65	20 OCT 65	
2. Comp. Date	15 DEC 66	17 MAR 66	
3. Percent Comp.		100%	
4. Direct MD			
a. Unit	660	56	
b. Other Mil.	0	0	
c. Civilian	0	*	* Concrete was poured with the assistance of a civilian contractor. No record was kept of the civilians time.
5. Indirect MD		11	
6. Support MD		3	
7. Support Costs (Project Funds)		\$31.00	
8. Equipment Costs (O&M)		Not available	
9. Material in Place		\$726.00	
10. Equipment. Crawler tractor.			

SECTION F
CONSTRUCTION ITEM SUMMARY

Unit: USN MCB EIGHT

Period Ending: 18 March 1966

C.I. No. 6PEA12

Title: Force Logistic Support Unit #2 Butler Buildings.

C.I. Cost: Not Available

Description: Construct four Butler Buildings

Location: Hue Phu Bai

Narrative: This project consisted of constructing two Butler Buildings for storage use and two Butler buildings for use as maintenance shops. The site was a low marshy area which required many cubic yards of fill material. Huck Fasteners were used to secure the roof and sidings of the buildings.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>	<u>Remarks</u>
1. Start Date	2 JAN 66	2 JAN 66	
2. Comp. Date	25 APR 66	18 MAR 66	
3. Percent Comp.		100%	
4. Direct MD			
a. Unit	2,640	826	
b. Other Mil.		0	
c. Civilian		*	* Concrete was poured with assistance from a civilian contractor
5. Indirect MD		507	
6. Support MD		48	
7. Support Costs (Project Funds)		\$312.00	
8. Equipment Costs (O&M)		Not available	
9. Material in Place		\$21,504.00	
10. Equipment. Dump trucks, motor grader, fork lift, mobile crane, "Huck" gun.			

SECTION F
CONSTRUCTION ITEM SUMMARY

Unit: USN MCB EIGHT

Period Ending: 25 March 1966

C.I. No. 6PAA45

Title: V.I.P. Guest House

C.I. Cost: Not Available

Description: This project consisted of small building demolition, erection of a quonset hut, improvements of exterior utilities, facilities, and drainage, painting interior and exterior of quonset hut, living room, dining room paneling, bathroom modifications, rewiring the house, painting interior and exterior of the house, installing screen doors, and repairing tile roof.

Location: Da Nang East Map Series: Series L701, Sheet 6659 II, BAI BAC

Grid Coordinates: 059777

Narrative: As described, this project involved many types of work, all of relatively small scope. Several modifications to the work order were made, and field changes required, as the work progressed. Due to changes in scope, and procurement problems previously discussed, completion was delayed well beyond that expected of the original work order.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	17 OCT 65	17 OCT 65
2. Comp. Date	7 DEC 65	9 MAR 66
3. Percent Comp.		100%
4. Direct MD		
a. Unit	615	606
b. Other Mil.	0	0
c. Civilian	0	0
5. Indirect MD		121
6. Support MD		7
7. Support Costs (Project Funds)		\$39.00
8. Equipment Costs (OP&M)		Not available
9. Material in Place		\$5310.70

CONSTRUCTION ITEM SUMMARY

Unit: USN MCB KMT

Period Ending: 2 May 1966

C.I. No. 6PGA32

Title: NSA Covered Storage Module #9

C.I. Cost:

Description: Construct one complex of eight Butler Buildings.

Location: Da Nang East

Map Series: L701, Sheet 6659II, Tourane

Grid Coordinates: 0579

Narrative: The earthwork on this project was accomplished by MCB ELEVEN. No unusual problems were encountered in erecting the building.

	<u>PROGRESS DATA</u>	
	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	22 MAR 66	22 MAR 66
2. Comp. Date	15 MAY 66	2 MAY 66
3. Percent Comp.	100%	100%
4. Direct MD		
a. Unit	946	680
b. Other Mil.	0	0
c. Civilian	350	440
5. Indirect MD		465
6. Support MD		83
7. Support Costs (Project Funds)		\$317.00
8. Equipment Costs (O&M)		\$147.00
9. Material in Place		\$52,300.00
10. Equipment. Mobile crane, fork lift, "Huck" gun, 5KW generator.		

SECTION F
CONSTRUCTION ITEM SUMMARY

Unit: USM MOB BIGHT

Period Ending: 26 April 1966

C.I. No. 6PAAL7

Title: "A" Company, 3rd Medical Battalion
Cantonment

C.I. Cost: Not Available

Description: Construct 30 strongbacks with metal roofs, one 8-hole latrine, one shower building, and one 500 man modified galley.

Location: Hue Phu Bai

Narrative: This project involved only a minimum of site preparation prior to erecting the buildings. No problems were encountered.

	<u>PROGRESS DATA</u>		
	<u>Orig. Est.</u>	<u>Actual to Date</u>	<u>Remarks</u>
1. Start Date	13 OCT 65	13 OCT 65	
2. Comp. Date	15 APR 66	26 Apr 66	
3. Percent Comp.		100%	
4. Direct MD			
a. Unit	1873	917	
b. Other Mil.	0	0	
c. Civilian	0	*	* Concrete pours were made with the assistance of a civilian contractor
5. Indirect MD		389	No records were kept of the civilian time.
6. Support MD		37	
7. Support Costs (Project Funds)		\$126.00	
8. Equipment Costs (O&M)		Not available	
9. Material in Place		\$14,436	

CONSTRUCTION ITEM SUMMARY

Unit: USMC TIGHT

Period Ending: 20 MAY 1966

C.I. No. 6PAA16

Title: 5th Communication
Battalion Cantonment

C.I. Cost: Not Available

Description: Construct 105 strongbacked tents, one 500-man galley-messhall (standard), five 8-hole latrines, one shower building, and a water distribution system.

Location: Danang East

Map Series: L 701, Sheet 6659 II, Bai Bac

Grid Coordinates: 065718

Narrative: Marine self-help contributed to the completion of this project. Much of the work was accomplished by crews formed of both Marines and Seabees with Seabee supervision. No unusual problems were encountered.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual of Date</u>	<u>Remarks</u>
1. Start Date	8 NOV 65	8 NOV 65	
2. Comp. Date	1 JAN 66	20 MAY 66	
3. Percent Comp.	100%	100%	
4. Direct MD			
a. Unit	4120	1155	
b. Other Mil.		*	* A large portion of the work was done by the customer with seabee supervision. No record was kept of the Marines' time.
c. Civilian		0	
5. Indirect MD		907	
6. Support MD		27	
7. Support Costs (Project Funds)		\$221.17	
8. Equipment Costs (O&M)		Not available	
9. Material in Place		\$62,059.65	
10. Equipment. Crawler tractor, line truck, scrapers, ditching machine.			

CONSTRUCTION ITEM SUMMARY

Unit: USN MCR TIGHT Period Ending: 25 March 1966
 C.I. No. 6PNA11 Title: DaNang East Road Maintenance
 CME: Not available

Description: Maintain road from Marble Mountain Air Field south to Marble Mountain.

Location: DaNang East Map Series: L 701, Sheet 6659 III, Tourane
 Grid Coordinates: 057743

Narrative: A crew composed of both Seabees and indigenous personnel were employed in patching and maintaining the DaNang East Road. Loads greatly in excess of design loads caused the road to deteriorate rapidly. The scope of this C.I. was recently reduced considerably. A large portion of the work previously assigned to this project has been transferred to R&K.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	1 OCT 65	
2. Comp. Date	15 JUN 66	
3. Percent Comp.	73%	76%
4. Direct MD		
a. Unit	1100	688
b. Other Mil.	0	0
c. Civilian	0	16
5. Indirect MD		
6. Support MD		
7. Support Costs (Project Funds)		
8. Equipment Costs (O & MN)		
9. Material in Place		

CONSTRUCTION ITEM SUMMARY

Unit: USN WCB FIGHT

Period Ending: 25 March 1966

C.I. No. 6PAA38

Title: Second Battalion, FIRST Marines Cantonment

CWE: \$102,000

Description: Construct 263 strongbacks, 13 8-hole latrines, one 500-man standard galley-messhall, three 500-man modified galleys, and five shower buildings.

Location: Hue Phu Bai

Narrative: Forty-four (44) strongbacks are complete and 180 strongbacks are under construction. Lack of screening prevents completion of the strongbacks now under construction. All galleys, showers and latrines are completed.

PROGRESS DATA

	Orig. Est.	Actual to Date
1. Start Date.	27 OCT 65	
2. Comp. Date	30 MAR 66	
3. Percent Comp.	100%	66%
4. Direct MD		
a. Unit	3,050	1560
b. Other Mil.	0	
c. Civilian	0	
5. Indirect MD		
6. Support MD		
7. Support Costs (Project Funds)		
8. Equipment Costs (O & M)		
9. Material in Place		\$105,637.00

CONSTRUCTION ITEM SUMMARY

Unit: USMC BATT

Period Ending: 23 May 1966

C.I. No. 67DA05

Title: Staging Area, SHR

C.I. Cost:

Description: Construct a 100' wide staging area of 3" minus crushed rock behind the quay wall.

Location: Danang

Map Series: L 701, Sheet 6659 III, Tourane

Grid Coordinates L 033761

Narrative: The work order called for a 100' wide staging area with an 18" base course constructed of 3" minus crushed rock be built behind the entire length of the quay wall. Since the rock was delivered by civilian contractors, the battalion had very little control over the rate of rock delivery. The project progressed very slowly due to the slow delivery of rock. Because of the limited amount of rock available, the base thickness was reduced to 10" in accordance with a verbal request from 3CNCR. Approximately 700' of the base course was completed.

PROGRESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date.	14 MAR 66	14 MAR 66
2. Comp. Date	1 JUL 66	1 JUL 66
3. Percent Comp.	55%	40%
4. Direct MD		
a. Unit	400	519
b. Other Mil.	0	0
c. Civilian	0	0
5. Indirect MD		360
6. Support MD		0
7. Support Costs (Project Funds)		\$0.00
8. Equipment Costs (O & M)		\$549.40
9. Material in Place		\$20,178.50
10. Equipment. Crawler Tractor, Motor grader.		

CONSTRUCTION ITEM SUMMARY

Unit: USN MCB EIGHT

Period Ending: 23 May 1966

C.I. No. 6PGA32

Title: NSA Storage Area

C.I. Cost:

Description: Construct an open storage area, erect 92 reefers, and build necessary roads.

Location: Da Nang East

Map Series: L701, Sheet 6659 III, Tourane

Grid Coordinates: 0579

Narrative: This project is located on the same track of land as the NSA Covered Storage project. A great deal of earthwork was required prior to erecting reefers. The open storage area is complete, the roadway roughed in, and 48 1,200 cu. ft. reefer units are in operation. An additional 28 1,200 cu. ft. reefers were completed except for electrical hook-up. Three 4,000 cu. ft. boxes were assembled and five more partially assembled. No buildings were erected over the reefers. Access roads to the reefers were about 30% completed.

PROGRESS DATA

	<u>Orig Est.</u>	<u>Actual to Date</u>
1. Start Date	7 MAR 66	7 MAR 66
2. Comp. Date	13 MAY 66	1 JUL 66
3. Percent Comp.		80%
4. Direct MD		
a. Unit	406	2201
b. Other Mil.	0	0
c. Civilian	0	0
5. Indirect MD		1399
6. Support MD		68
7. Support Costs (Project Funds)		\$148.62
8. Equipment Costs (O & MN)		Not available
9. Material in Place		\$371,000
10. Equipment. Crawler tractors, scrapers, motor graders, transit mixers.		

SECTION G

CONSTRUCTION ITEM SUMMARY

Unit: USN MCB EIGHT

Period Ending 23 May 1966.

C.I. No. 6PGA32

Title: NSA Covered Storage

C.I. Cost:

Description: Construct 32 Butler Buildings in four groups of eight buildings each, roads, fences and ditches.

Location: Da Nang East

Map Series: L701, Sheet 6659 III, Tourane

Grid Coordinates: 0579

Narrative: Prior to erecting any buildings, a large amount of sand had to be moved. The building sites were located in the midst of a rolling, sandy area. A concrete batch plant was erected on the site. This batch plant was soon used for all concrete pours at Da Nang East. Huck Fasteners were used extensively to attach the siding and roof to the buildings. The fastener greatly reduced the amount of time required. Vietnamese laborers were used to assist in sheeting the buildings. The Vietnamese proved to be industrious, willing workers. All buildings are complete. Approximately 65% of the roads are complete. None of the ditches and fences were started.

PROCESS DATA

	Orig. Est.	Actual to Date
1. Start Date.	11 NOV 65	11 NOV 65
2. Comp. Date	30 SEP 66	1 JUL 66
3. Percent Comp.		95%
4. Direct VD		
a. Unit	23,363	5298
b. Other Mil.		0
c. Civilian		1116
5. Indirect VD		3796
6. Support VD		771
7. Support Costs (Project Funds)		2117
8. Equipment Costs (O & M)		Not available
9. Material in Place		\$154,011.40
10. Equipment. Crawler tractors, scrapers, motor graders, fork lifts, mobile crane, generators, line truck, "Huck" Cms		

CONSTRUCTION ITEM SUMMARY

UNIT: USN MCB EIGHT Period Ending: 23 May 1966

C.I. No. 6PDA04 Title: LCU/LCM Ramps

C. I. Cost:

Description: This project consists of placing sand fill on highly compressible hydraulic fill, constructing four (4) boat ramps, three (3) docks, a quay wall, and a timber pier.

Location: Da Nang Map Series: L 701, Sheet 6659 III, Tourane
Grid Coordinates: 033761

Narrative: This project is now complete except for the timber pier. All bearing and batter piles have been driven for the timber pier and timber caps have been installed on 24 of the 27 bents. A number of transverse and longitudinal braces were installed. Decking has been installed on 9 bents. Ten (10) fender piles have been driven.

A great amount of trouble was encountered on this project at the start since it was being built on undrained hydraulic fill. After having various pieces of equipment sink into the fill material, it was deemed necessary to haul sand into the project site. The sand haul operation, like the rest of the project, was executed on an around the clock, two shift basis. Lack of experience in pile driving and heavy rain caused the project to get off to a slow start. As the weather became less severe, work progressed more rapidly. Friendly competition between the day and night crews pushed work ahead of schedule in the spring enabling early completion of the project.

Delays were encountered on two occasions due to civil strife in Da Nang. During those periods only security crews manned the project. They were held lifted between camp Faulkner and the site by H34 helicopters.

PROGRESS DATA

	Orig. Est.	Actual to Date
1. Start Date	5 OCT 65	5 OCT 65
2. Comp. Date	1 SEPT 66	1 JUL 66
3. Percent Comp.	72%	86%
4. Direct WD.		
a. Unit	7,388	11901
b. Other "il.	0	0
c. Civilian	0	0
5. Indirect WD		9210
6. Support WD		704
7. Support Costs (Project Funds)		\$3700
8. Equipment Costs (O & M)		Not available
9. Material in Place		\$627,838.01
10. Equipment.	Dump trucks, D-8's, W 6, 2 W 25's, 1 1/2 yd lift crane, diesel and air compressors, hoists, cranes and loader, asphalt	

CONSTRUCTION IT IS SUMMARY

Unit: USN MCB EIGHT
C.I. No. 6PFA05

Period Ending: 23 May 1966
Title: Ice Plant Installation

C. I. Cost:

Description: Construct Facility for housing 15 ton/day ice plant, including installation of machine.

Location: Da Nang East Map Series: L701, Sheet 6659 III, Tourane

Grid Coordinates: 0579

Narrative: The building and facilities inside the building are complete except for several small items such as gauges, safety valves, ect. that are not available locally. This project suffered from material shortages from the start since one box of the component could not be located. Additional parts were removed from the ice plant after installation by direction of COM 30 NCR and transferred to the plant being constructed at Force Logistic Support Group (FLSG) Headquarters. FLSG was requested to procure the needed items.

PROCESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	14 MAR 66	14 MAR 66
2. Comp. Date	8 APR 66	15 JUN 66
3. Percent Comp.	100%	92%
4. Direct MD		
a. Unit	522	690
b. Other Mil.	0	0
c. Civilian	0	0
5. Indirect MD		461
6. Support MD		18
7. Support Costs (project funds)		\$322.00
8. Equipment Costs (C.I.)		\$37.20
9. Material in Place		\$16,102.64
10. Equipment. Transit mixers, mobile crane.		

CONSTRUCTION IT IN SUMMARY

Unit: USN MCB EIGHT
C.I. No. 6PFA05

Period Ending: 23 May 1966
Title: Ice Plant Installation

C. I. Cost:

Description: Construct Facility for housing 15 ton/day ice plant, including installation of machine.

Location: Da Nang East Map Series: L701, Sheet 6659 III, Tourane

Grid Coordinates: 0579

Narrative: The building and facilities inside the building are complete except for several small items such as gauges, safety valves, ect. that are not available locally. This project suffered from material shortages from the start since one box of the component could not be located. Additional parts were removed from the ice plant after installation by direction of COM 30 NCR and transferred to the plant being constructed at Force Logistic Support Group (FLSG) Headquarters. FLSG was requested to procure the needed items.

PROCESS DATA

	<u>Orig. Est.</u>	<u>Actual to Date</u>
1. Start Date	14 MAR 66	14 MAR 66
2. Comp. Date	8 APR 66	15 JUN 66
3. Percent Comp.	100%	92%
4. Direct MD		
a. Unit	522	690
b. Other Mil.	0	0
c. Civilian	0	0
5. Indirect MD		464
6. Support MD		18
7. Support Costs (project Funds)		3322.00
8. Equipment Costs (C & M)		987.20
9. Material in Place		216,102.64
10. Equipment. Transit mixers, mobile crane.		

CONSTRUCTION ITEM SUMMARY

Unit: US 1 MCB EIGHT

Period Ending: 23 May 1966

C.I. No. 6PAA20

Title: MCB EIGHT Cantonment

CI Cost:

Description: Construct necessary living, administrative, messing, medical, and dental facilities. Also build all roads and shops necessary to execute the battalion's construction mission.

Location: Da Nang East

Map Series: L701, Sheet 6659 II BAI BAC

Grid Coordinates: 064724

Narrative: When the main body arrived in Da Nang, the MCB EIGHT Advance Party had enough strongbacked tents erected to house and feed the battalion. The work accomplished by the Advance Party included: 71 strongbacked tents completed, galley operational, 1530 linear feet of roads completed, potable water source operational, and field fortifications sufficient for their own defense. The perimeter of the camp was enlarged and additional bunkers built soon after the main body arrived. Additional tents were erected to ease the overcrowded living conditions. An underground battalion command post was constructed to house the communication switchboard during normal conditions and the CO and his staff during Condition I. The C.P. was enlarged later to separate the CO and XO during attacks. Sickbay, the Dental Office, and the C.P. were air conditioned. Approximately 20% of the strongbacks were converted to metal roofs during the last two months of the deployment.

PROJECT DATA

	<u>ORIG. Est.</u>	<u>Actual to Date</u>
1. Start Date	30 AUG 65	30 AUG 65
2. Comp. Date	31 DEC 65	15 JUN 66
3. Percent Comp.	100%	98%
4. Direct MB		
a. Unit	7,140	3,653
b. Other Mil.	0	0
c. Civilian	0	0
5. Indirect MB		6,200
6. Support MB		117
7. Support Costs (Project Funds)		\$2,700.00
8. Equipment Costs (O & M)		Not available
9. Material in Place		\$86, 628.27
10. Equipment. Crawler tractors, motor graders, generators, mobile crane, transit mixers.		

Unit: USF MGB FIGHT

Progress Photographs

1. Security Bunker #1 Camp Faulkner.
2. 6PDA04 LCU/LCM Ramps Project. Showing sheet piling with f for Dock #2.
3. 6PDA04 LCU/LCM Ramps with timber pier.
4. 6PAA21 NSA Galley.
5. 6P6A32 NSA Covered Storage.
6. 6PFA05 Ice Plant.
7. 6PFA05 3000BL water storage for ice plant.
8. 6PAA38 2 Batt. 1st Marine Cantonment Chapel.
9. 6PPA04 A Med. Emerg. Operations Facility.
10. 6PAA16 5th Comm. Batt. Cantonment.
11. 6PAA16 500 man Galley for 5th Comm. Batt.



