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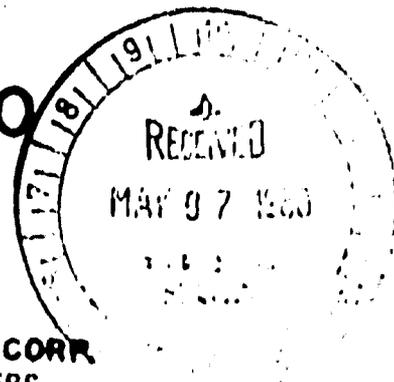
REPUBLIC OF THE PHILIPPINES  
**MINISTRY OF PUBLIC HIGHWAYS**  
MANILA

**BICOL RIVER BASIN  
DEVELOPMENT PROJECTS  
SECONDARY & FEEDER ROADS**  
CAMARINES SUR

**PACKAGE I**

**MONTHLY  
CONSTRUCTION REPORT**

**MARCH, 1980**



**TECHNIKS GROUP CORP.**  
CONSULTING ENGINEERS  
PHILIPPINES

REPUBLIC OF THE PHILIPPINES  
MINISTRY OF PUBLIC HIGHWAYS  
MANILA

BICOL RIVER BASIN  
DEVELOPMENT PROJECTS  
SECONDARY & FEEDER ROADS  
CAMARINES SUR

PACKAGE I

MONTHLY  
CONSTRUCTION REPORT

LIBMANAN BRIDGE-CABUSAO SECTION --REPORT NO. <u>12</u> (SUB-PROJECT 1, SEGMENT 2)
CALABANGA-MANMURING BRIDGE SECTION --REPORT NO. <u>16</u> (SUB-PROJECT 2, CONTRACT PACKAGE NO.1)
BRIDGES, CALABANGA-TINAMBAC ROAD --REPORT NO. <u>14</u> (SUB-PROJECT 2, CONTRACT PACKAGE NO.2)
MANMURING BRIDGE-TINAMBAC SECTION --REPORT NO. <u>13</u> (SUB-PROJECT 2, CONTRACT PACKAGE NO.2)
DANAO-PASACAO ROAD -- -- -- --REPORT NO. <u>11</u> (SUB-PROJECT 2)



TECHNINC GROUP CORP.  
CONSULTING ENGINEERS  
PHILIPPINES

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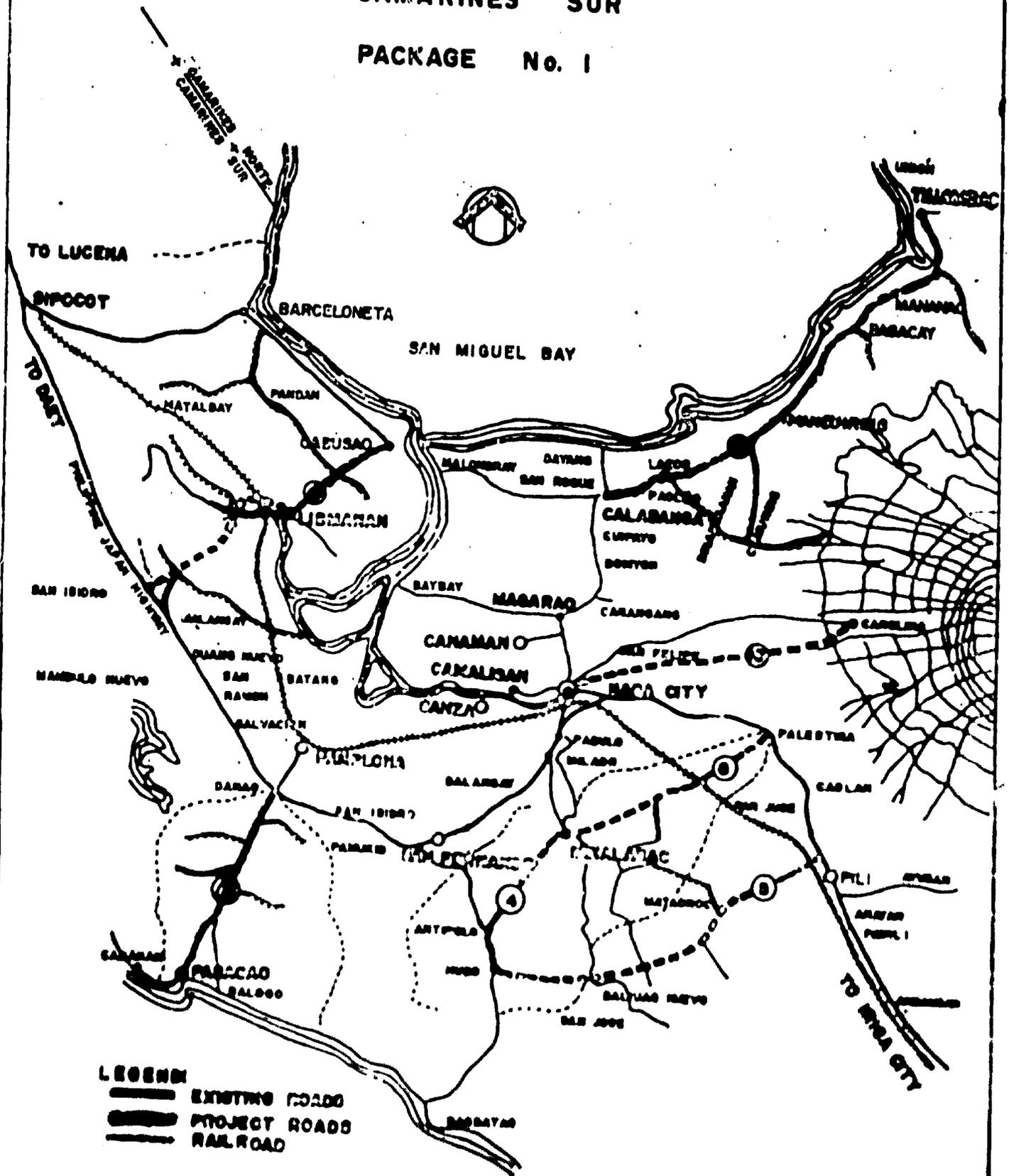
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# BICOL RIVER BASIN DEVELOPMENT PROJECT SECONDARY AND FEEDER ROADS CAMARINES SUR

PACKAGE No. 1



LOCATION PLAN

**SUMMARY OF PROJECT STATUS**

**As of March 29, 1960**

SUMMARY OF PROJECT STATUS  
As of March 25, 1980

**A. LIBMANAN BRIDGE-CABUSAO SECTION, Sub-project 1, Segment "B"**

1. Total Contract Cost . . . . . ₱12,354,412.60
2. Total Amount of Accomplishment as of  
December, 1979 . . . . . ₱ 7,202,291.63
3. Percent (%) Accomplishment as of  
December, 1979 . . . . . 58.33%

	<u>% Section</u>	<u>% Project</u>
a. General . . . . .	78.86	2.79
b. Secondary Road . . . . .	49.87	36.77
c. Feeder Road 103 . . . . .	84.99	7.75
d. Feeder Road 104 . . . . .	80.68	<u>10.99</u>
Total - - - - -	-	58.33%

4. Total Contract Time . . . . . 510 Days
5. Percent (%) Time Elapsed . . . . . 87.25%
6. percent (%) Slippage . . . . . 47.65% (-)

**Remarks:** The request of the Contractor for the suspension of work was approved by the Project Director effective November 1, 1979. However, the Consultant requests for the change of effectivity of the suspension date to December 6, 1979.

**B. CALABANGA-MANGUIRING BRIDGE SECTION, Sub-project 3, Contract Package 1**

1. Total Contract Cost . . . . . ₱8,780,666.90
2. Total Amount of Accomplishment To Date . . . . . 3,731,023.18
3. Percent (%) Accomplishment To Date . . . . . 42.45%

	<u>% Section</u>	<u>% Project</u>
a. General . . . . .	69.13	1.5672
b. Secondary Road . . . . .	28.24	13.7731
c. Feeder Road 301 . . . . .	57.05	23.1654
d. Feeder Road 302 . . . . .	47.22	<u>3.9469</u>
Total - - - - -		42.45%
4. Total Contract Time . . . . .		549 Days
5. Percent (%) Time Elapsed . . . . .		65.76%
6. Percent (%) Slippage . . . . .		46.22% (-)

C. BRIDGES, CALABANGA-TINAMBAC ROAD, Sub-project 3, Contract Package 3

1. Total Contract Cost . . . . .	₱2,145,096.20
2. Total Amount of Accomplishment To Date . . . . .	1,232,954.47
3. Percent (%) Accomplishment To Date . . . . .	57.48%

	<u>% Section</u>	<u>% Project</u>
a. General . . . . .	81.63	1.87
b. Manguring Bridge . . . . .	98.13	19.40
c. Cut-12 Bridge . . . . .	94.72	15.42
d. Tumulon Br. (test piles)	26.24	2.55
e. Tiguib Bridge with piling for Abutment "B" . . . . .	34.66	3.06
f. Kawayan Bridge . . . . .	65.64	15.18
g. hubo Bridge . . . . .	0	0
h. Witiwit Bridge . . . . .	0	<u>0</u>
Total - - - - -		57.48%
4. Total Contract Time . . . . .		549 Days
5. Percent (%) Time Elapsed . . . . .		47.54%
6. Percent (%) Slippage . . . . .		10.39 (+)

D. MANGUIRING BRIDGE-TIMAMBAC SECTION, Sub-project 3, Contract Package 2

1. Total Contract Cost . . . . .	P15,965,239.90
2. Total Amount of Accomplishment To Date . . . . .	2,619,823.63
3. Percent (%) Accomplishment To Date . . . . .	16.41%

	<u>% Section</u>	<u>% Project</u>
a. General . . . . .	25.82	0.1564
b. Secondary Road . . . . .	18.40	16.2532
c. Feeder Road . . . . .	0	<u>0</u>
Total - - - - -		16.4092

4. Total Contract Time . . . . .	540 Days
5. Percent (%) Time Elapsed . . . . .	39.26%
6. Percent (%) Slippage . . . . .	10.66 (-)

E. DANAO-PASACAO ROAD, Sub-project 2

1. Total Contract Cost . . . . .	P11,635,128.50
2. Total Amount of Accomplishment To Date . . . . .	P 3,592,568.10
3. Percent (%) Accomplishment . . . . .	30.87%

	<u>% Section</u>	<u>% Project</u>
a. General . . . . .	54.04	0.86
b. Secondary Road . . . . .	18.80	12.82
c. Feeder Road 201 . . . . .	40.65	3.55
d. Feeder Road 202 . . . . .	64.20	12.41
e. Feeder Road 203 . . . . .	37.19	<u>1.23</u>
Total - - - - -		30.87%

4. Total Contract Time . . . . .	518 Days
5. Percent (%) Time Elapsed . . . . .	54.25%
6. Percent (%) Slippage . . . . .	29.60% (-)

Republic of the Philippines  
MINISTRY OF PUBLIC HIGHWAYS  
M a n i l a

MONTHLY CONSTRUCTION REPORT

for

Sub-project 1  
Segment "B"

LITMANAN BRIDGE-CABUSAO SECTION  
Secondary Road

PURORATYA-USON NO. 103  
LITMANAN-PATAG-BARCELONITA NO. 104  
Feeder Roads

NO. 19

MARCH, 1980

TECHNICS GROUP CORPORATION

PROGRESS REPORT NO. 19

March, 1980

PROJECT: LIBMANAN BRIDGE-CABUSAO SECTION  
Sub-project 1, Segment "B"

CONTRACTOR: R. L. UMALI CONSTRUCTION CORPORATION

I. Construction operation in this project was temporarily suspended.

All supporting papers hereof are no longer included in this report.

Same have already been submitted in previous report.

Republic of the Philippines  
MINISTRY OF PUBLIC HIGHWAYS  
M a n i l a

MONTHLY CONSTRUCTION REPORT

For

Sub-project 3  
Contract Package No. 1

CALARANGA-MANGUILING BRIDGE SECTION  
Secondary Road

LABOG-BINANTUAHAN NO. 301  
MANGUILING-CAMUNING NO. 302  
Feeder Roads

NO. 16

MARCH 1988

TECHNIES GROUP CORPORATION

PROGRESS REPORT NO. 16

March 1980

PROJECT: CALABANGA-MANGUIRING BRIDGE SECTION  
(Sub-Project 3, Contract Package No. 1)

CONTRACT: KANAGONG BUILDERS AND DEVELOPERS CORPORATION

1. GENERAL:

This sixteenth monthly report covers the progress of construction for the month of March 1980.

The construction activities are as follows:

- a) Survey Work
- b) Earthwork Operation
- c) Formwork, cutting, bending and placing reinforcing steel bars for box culvert.
- d) Sampling and testing of construction materials.
- e) Undertaking field density test.

2. WEATHER:

Due to the unworkable condition on the site caused by Typhoon "Biring", work was suspended on March 24 - 25, 1980. But the weather condition on the locality for the rest of the month is generally good.

3. MOBILIZATION:

The Contractor has not completed the mobilization of equipment and personnel up to the present. Considering the time extension recommended due to bad weather condition, the time elapsed in their contract is already 68.2% as of this report.

During the month, the Contractor was able to return some of the badly needed equipment to the site and resume their earthwork operation on the Secondary Road. But still, they have to bring in the Rock Crusher and other equipment pledged in the contract, so that production of crushed aggregate base course and good quality coarse aggregate for concreting work could be started. The two-bagger concrete mixers and additional concrete vibrators are also needed to expedite the completion of the remaining cross drainage culverts. Additional skilled laborers are also needed to resume the fabrication of reinforced concrete pipes.

The present equipment available at the project site is shown in the List of Equipment Annex "B-B".

The Contractor's Staff consist of thirty three (33) men shown in the attached List of Personnel Annex "B-A", with their respective designation and assignment.

As of this report, the Contractor has not made any improvement in our Laboratory or to supply additional equipment as mentioned in our previous monthly report.

#### 4. PROGRESS OF WORK:

The total work accomplished to date is 42.45%, while the time elapsed is already 65.76% (including the time extension recommended due to bad weather).

##### A. SECONDARY ROAD:

###### Survey Work:

1. Establishing the profile grade, staking construction limit and restaking PC of Horizontal Curve from Sta. 0+00 to Sta. 1+700.

2. Establishing profile grade from Sta. 9+500 to Sta. 9+904.
3. Checking the invert elevation of Box Culvert at Sta. 7+175.

Earthwork:

ITEM 106 - EXCAVATION FOR STRUCTURES:

The Contractor resume the work on drainage structures and undertake the excavation (left side) for box culvert at Sta. 7+175.

ITEM 107 - BORROW:

With the return of some equipment to the site, the Contractor resumed the hauling, spreading and compacting additional materials at the following road sections.

From Sta. 0+275 to Sta. 0+606

From Sta. 9+500 to Sta. 9+900

ITEM 108 - AGGREGATE SUBBASE CLASS "A":

As the contractor returned some of the equipment such as power grader, dump truck, bulldozer and payloador to the project, hauling of materials was resumed at the following road sections:

From Sta. 2+050 to Sta. 3+500

From Sta. 7+300 to Sta. 9+500

Correction in the elevation of subbase was also undertaken at the above-mentioned road section.

ITEM 110 - FOUNDATION FILL:

After the excavation for the box culvert at Sta. 7+175 (left side) foundation fill of good granular materials are placed and compacted at the bottom of the proposed structures.

Drainage Structures:

ITEM 405 - CONCRETE CLASS "A":

Within this month the Contractor was able to complete the bottom slab, two walls and top slab (left side) of the single box culvert at Sta. 7+175. The left apron and the two wingwalls may be completed next month.

ITEM 406 - REINFORCING STEEL:

Some of the reinforcing steel which were previously cut and bent were incorporated in the cross drainage structure mentioned above.

B. FEEDER ROADS:

B.1. Feeder Road 301:

Survey:

1. Actual field cross section of work accomplished was made from Sta . 6+000 to Sta. 12+900.

Earthwork:

To prevent futher damage on the road system, the Contractor continued the maintenance on the section with subbase materials. Repair of side ditches, especially the removal of boulders were also being done, for proper drainage of rain water.

**B.2. Feeder Road 302**

The Contractor has not made any construction activities on this road system during this month, except routine maintenance, especially the repair of the side ditches, to prevent further damage on the roadway.

**5. MATERIALS TESTING AND CONTROL:**

The Laboratory and Field Test for materials quality control undertaken by the Contractor during this month under the supervision of the A & E Materials Engineer were as follows:

Grading Analysis - - - - -	5
Plastic and Liquid Limit Determination - - - -	5
Laboratory Compaction Test - - - - -	5
Field Density Test - - - - -	9
Shrinkage Factor Determination - - - - -	1

One (1) set of Concrete Cylinder sample was taken to represent the cement concrete poured at single barrel box culvert at Sta. 7+175 along Secondary Road.

**6. ACCOMPLISHMENT OF MAJOR ITEMS (Accumulated as of this Period)**

**A. Secondary Road:**

**Subgrades:**

Sta. 0+000 - Sta. 2+050 - - - - -	Partial
Sta. 2+050 - Sta. 3+500 - - - - -	Completed
Sta. 3+050 - Sta. 4+200 - - - - -	Partial
Sta. 4+200 - Sta. 6+000 - - - - -	Completed
Sta. 7+300 - Sta. 9+500 - - - - -	Completed

**Subbase:**

Sta. 2+050 - Sta. 3+500 - - - - - Partial  
Sta. 4+200 - Sta. 6+000- - - - - Partial  
Sta. 7+300 - Sta. 9+500 - - - - - Partial  
Base - - - - - None  
Surfacing (Bituminous Surface Treatment) - - - - None

**Structures:**

R. C. Box Culvert - - -- - One (1) Under Construction  
R. C. Pipe Culverts:  
0.60 M.Ø = 52 L.M.  
0.90 M.Ø = 114 L.M.  
1.20 M.Ø = 35 L.M.

**B. Feeder Road 301:**

**Subgrade:**

Sta. 0+013.05 - Sta. 7+500 - - - - - Completed  
Sta. 7+500 - Sta. 12+913.28 - - - - - Partial

**Subbase:**

Sta. 0+013.05 - Sta. 7+500 - - - - - Partial

**Structures:**

R. C. Box Culvert - Three (3) Under Construction  
R. C. Pipe Culverts:  
0.60 M.Ø = 67 L.M.  
1.20 M.Ø = None

C. Feeder Road 302:

Subgrade:

Sta. 0+014.72 - Sta. 5+297.93 - - - - - Completed

Subbase:

Sta. 0+014.72 - Sta. 5+297.93 - - - - - -Partial

Structures:

R. C. Pipe Culverts:

0.60 M.Ø - 18 L.M.

1.20 M.Ø - 26 L.M.

7. **COMMENT AND RECOMMENDATION**

As of this report, the project is behind schedule by 46.22%. The time extension recommended due to bad weather were already considered in this report. Although the Contractor has brought back some equipment to the project and hired additional skilled and semi-skilled laborers, the progress of work was still quite slow.

The following advices have been given to the Contractor, to speed up the construction activities, in order to catch up with his program of work.

1. Return more equipment to the project especially dump trucks and payloaders to facilitate the hauling of materials.
2. Hire more skilled and semi-skilled laborers, so that other cross drainage culverts could be started.
3. Start at the earliest possible time the fabrication of R. C. Pipe.
4. Speed up the repair of broken down equipment and mobilize idle equipment available at the site.

PROJECT: CALABANGA-MANGUIRING BRIDGE SECTION  
 (Sub-Project 3, Contract Package No. 1)

WEATHER REPORT

<u>Date - 1980</u>	<u>Weather Condition</u>	<u>Remarks</u>	<u>Time Extension Recommended</u>
February 26	Fair	Workable	None
27	Fair	-do-	-do-
28	Fair	-do-	-do-
29	Fair	-do-	-do-
March 1	Fair	-do-	-do-
2	Fair	-do-	-do-
3	Fair	-do-	-do-
4	Fair	-do-	-do-
5	Fair	-do-	-do-
6	Fair	-do-	-do-
7	Fair	-do-	-do-
8	Fair	-do-	-do-
9	Fair	-do-	-do-
10	Fair	-do-	-do-
11	Fair	-do-	-do-
12	Fair	-do-	-do-
13	Fair	-do-	-do-
14	Fair	-do-	-do-
15	Fair	-do-	-do-
16	Fair	-do-	-do-
17	Fair	-do-	-do-
18	Fair	-do-	-do-
19	Fair	-do-	-do-
20	Fair	-do-	-do-
21	Fair	-do-	-do-
22	Fair	-do-	-do-
23	Fair	-do-	-do-
24	Rainy	Unworkable (typhoon Biring)	1 day
25	Rainy	Still Unworkable	1 day
TIME EXTENSION RECOMMENDED THIS MONTH- - - - -			2 days
TIME EXTENSION RECOMMENDED PREVIOUSLY - - - - -			52 days
GRAND TOTAL TO DATE - - - - -			54 days

KAMAGONG BUILDERS AND DEVELOPERS CORP.  
CALABANGA-MANGUIRING BRIDGE SECTION  
Sub-Project No. 3 Package No. 1  
Bo. Paolbo, Calabanga, Camarines Sur

LIST OF PERSONNEL  
(As of March 25, 1980)

<u>NAME</u>	<u>DESIGNATION</u>
1. Felicitas N. Lucero	Project Engineer
2. Salve U. Tarrotago	Materials Engineer
3. Imelda Linga	Bookkeeper
4. Onofre Ponce	Timekeeper/Warehouseman
5. Armando Florendo	Actg. Instrumentman
6. Eduardo Roman	Draftsman
7. Enrico Soriano	Courier
8. Benjamin de Leon	Janitor
9. Victorio Boragay jr.	Lab. Aide
10. Felix Gutierrez	Lab. Aide
11. Galicano Saquido	Survey Aide
12. Romeo Manalo	Survey Aide
13. Alejandro Pareño	Operator
14. Filino Vale	Operator
15. Macario Rosento	Operator
16. Vicente Pron	Operator
17. Luciano Austria	Driver
18. Tomas Otordoz	Driver
19. Benjamin Arenas	Driver
20. Edelberto Linga	Driver
21. Alfonso Calleja Sr.	Mechanic
22. Daniel Capagas	Tireman
23. Paquito Dez	Foreman (RCBC)
24. Elias Migabon	Steelman
25. Antonio Austria	Leaman
26. Juanito Bagudo	Steelman
27. Vevincio Benarao	Carpenter
28. Francisco Yguzguiza	Carpenter
29. Domingo Yguzguiza	Laborer
30. Salvador Baguio	Laborer
31. Arsenio Olieta	Laborer
32. Rodol Olieta	Laborer

One (1) Security Guard from PEFTOK

Submitted by:

(SGD.) FELICITAS N. LUCERO  
Project Engineer

KAMAGONG BUILDERS AND DEVELOPERS CORP.  
Bo. Paolbo, Calabanga, Camarines Sur  
Field Office

LIST OF EQUIPMENT  
(As of March 25, 1980)

<u>TYPE</u>	<u>MODEL</u>	<u>SERIAL NO.</u>
1. Motor Grader	KOMATSU GD-37	
2. Bulldozer	Caterpillar D7B	48A1226
3. Payloader	Caterpillar 920	
4. Compactor	CH 44	
5. Excavator	Ford	
6. Water Truck	REO 6 x 6	
7. Dump Truck	HINO SM 100	IK 10
8. Dump Truck	HINO SM 100	IK 12
9. Dump Truck	HINO KB 100	25656
10. Concrete Vibrator	Bridge Straton	
11. Welding Machine	Hobart	
12. 2 Units One (1) Bagger Mixer	Bridge & Straton	119045-14-2

SUBMITTED BY:

(SGD.) FELICITAS N. LUCERO  
Project Engineer

ITEM NO.	DESCRIPTION	ESTIMATE	
		SEC. RD.	SCHEDULED
1.60.2	PROVIDE & MAINTAIN LABORATORY & OFFICE FOR ENGINEER		0.5120
1.60.3	PROVIDE 1-UNIT 4-WHEEL DRIVE VEHICLE FOR ENGINEER		0.6960
1.60.6	LABORATORY & OFFICE EQUIPMENT FOR ENGINEER		1.0582
100	CLEARING AND GRUBBING		0.0256
103-2	REMOVAL OF CULVERTS	SEC. RD.	0.0717
		FR 301	0.0054
		FR 302	0.0154
105-1	ROADWAY AND DRAINAGE EXCAVATION (WASTE)	SEC. RD.	0.1875
		FR 301	3.5822
		FR 302	1.1178
105-3	ROADWAY AND DRAINAGE EXCAVATION	SEC. RD.	7.6674
		FR 301	15.1212
		FR 302	2.6797
106	EXCAVATION FOR STRUCTURES	SEC. RD.	0.1527
		FR 301	0.2853
		FR 302	0.0250
107	BORROW	SEC. RD.	4.6654
108	AGGREGATE SUBBASE (CLASS "A")	SEC. RD.	12.4445
		FR 301	9.7006
		FR 302	3.7566
110	FOUNDATION FILL	SEC. RD.	0.0842
		FR 301	0.0544
		FR 302	0.0181
111	OVERHAUL (300m. FREEHAUL)	SEC. RD.	0.0109
200	CRUSHED AGGREGATE BASE COURSE (GRADING "B")	SEC. RD.	6.2456
203-2	SOIL ASPHALT BASE COURSE	FR. 301	2.0926
302-1	MEDIUM CURING CUTBACK ASPHALT (MC-1) FOR BIT. COAT	SEC. RD.	2.5767
305-1	COVER MATERIAL FOR BITUMINOUS SEAL COAT	FR 301	0.0300
305-3	EMULSIFIED ASPHALT GRADE, SS FOR BITUMINOUS COAT	FR 301	0.1838
314-1	AGGREGATE MATERIALS FOR BST (HOT ASPHALT TYPE)	SEC. RD.	1.5766
314-3	85-100 PENETRATION ASPHALT CEMENT FOR BST	SEC. RD.	5.1916
405-1	CONCRETE CLASS "A" FOR DRAINAGE & MISC. STRUCT.	SEC. RD.	2.6307
		FR 301	4.3328
		FR 302	0.3098
406	REINFORCING STEEL FOR DRAINAGE & MISC. STRUCTURES	SEC. RD.	2.1566
		FR 301	3.6851
		FR 302	0.0066
412	STONE MASONRY	SEC. RD.	0.0086
413-2	0.60 M. DIA. REINFORCED CONCRETE PIPE	SEC. RD.	0.2949
		FR 301	0.5999
		FR 302	0.0650
413-3	0.60 M. DIA. REINFORCED CONCRETE PIPE	SEC. RD.	0.3382
		FR 301	0.6764
		FR 302	0.0851
413-4	1.20 M. DIA. REINFORCED CONCRETE PIPE	SEC. RD.	1.0652
		FR 301	2.1304
		FR 302	0.2516
510	RIGHT-OF-WAY MARKER	SEC. RD.	0.0719
		FR 301	0.1741
		FR 302	0.0798
T O T A L S			100.00
			THIRTY (30)
			CUMULATIVE

FEB. 5, 1979  
START OF  
CONTRACT TIME

CALAB

ED.	ACCOMPLISHED		QUANTITY	UNIT COST	AMOUNT	30	30
	ITEM	PROJECT					
166.867	0.2412	18 nos.	2,500.00	45,000.00			
100.00	0.6868	-	LUMP SUM	61,240.70			
150.00	0.5791	-	LUMP SUM	93,000.00			
100.00	0.0256	0.5Ha	4,500.00	2,250.00			
50.00	0.0278	14Es.	450.00	6,300.00			
		1Es.	450.00	450.00			
46.67	0.0103	3 Es.	450.00	1,350.00			
175.24	0.1411	1,030 Cu.M.	16.00	16,480.00			
13.27	1.8639	19,690 Cu.M.	16.00	314,880.00			
16.15	0.7292	6,140 Cu.M.	16.00	98,240.00			
63.67	4.2223	27,640 Cu.M.	24.38	673,653.20			
29.87	11.9411	54,510 Cu.M.	24.38	1,328,953.80			
53.83	1.4425	9,660 Cu.M.	24.38	235,510.80			
25.90	0.0701	610 Cu.M.	22.00	13,420.00			
30.42	0.0778	1,020 Cu.M.	22.00	22,440.00			
50.00	0.0125	1,000 Cu.M.	22.00	2,200.00			
16.22	4.0224	12,060 Cu.M.	34.00	410,040.00			
21.49	2.6739	23,270 Cu.M.	47.00	1,093,690.00			
34.73	3.2611	18,140 Cu.M.	47.00	852,580.00			
87.58	1.4267	7,100 Cu.M.	47.00	333,700.00			
24.42	0.0123	90 Cu.M.	53.00	4,770.00			
57.14	0.2422	140 Cu.M.	53.00	7,420.00			
20.00	0.0097	20 Cu.M.	53.00	1,060.00			
50.00	0.0054	3,200 Sq.M.	0.30	960.00			
		13,420 Cu.M.	54.00	724,680.00			
		4,000 Sq.M.	44.00	176,000.00			
		102 M.T.	2,215.00	225,880.00			
		24 Cu.M.	110.00	2,640.00			
		6 M.T.	2,400.00	14,400.00			
		1,385 Cu.M.	100.00	138,500.00			
		201 M.T.	2,270.00	456,270.00			
11.18	0.2940	340 Cu.M.	680.00	231,200.00			
66.96	2.3014	560 Cu.M.	680.00	380,800.00			
		40 Cu.M.	680.00	27,200.00			
12.70	0.2578	25,189 Kg.	6.50	163,768.00			
72.91	2.1142	49,558 Kg.	6.50	322,114.00			
		20 Kg.	6.50	130.00			
		3 Cu.M.	250.00	750.00			
64.20	0.1792	81 L.M.	320.00	25,920.00			
61.47	2.2439	108 L.M.	320.00	34,560.00			
100.00	0.0667	10 L.M.	320.00	3,200.00			
22.05	0.1256	20 L.M.	320.00	6,400.00			
17.72	0.1256	20 L.M.	320.00	6,400.00			
		710 L.M.	320.00	227,200.00			
100.00	0.2515	28 L.M.	800.00	22,400.00			
		158 Es.	40.00	6,320.00			
		380 Es.	40.00	15,200.00			
		174 Es.	40.00	6,960.00			
	42.45			8,788,666.90			
(30) DAY PERIODICAL ACCOMPLISHMENT					193,717.54	372,666.75	50
TOTAL AMOUNT						566,374.29	1,07





SCHEDULED ACCOMPLISHMENT

ACTUAL ACCOMPLISHMENT

AUGUST 1954

	450	480	510	540
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52.75	338,482.17	78,448.70	147,886.10
60.93	8,564,321.10	8,640,770.80	8,788,886.90

ITEMIZED COMPUTED ACCOMPLISHMENT  
(As of March 25, 1980)

CALABANG-MANTILING BRIDGE SECTION

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT		
					Percentage Based on Bid Quantities	Quantity/Volume	VALUE
1.60.2	<u>GENERAL</u> PROVIDE AND MAINTAIN LABORATORY AND OFFICE FOR ENGINEER	18 MOS.	2,500.00/MO.	45,000.00	66.67	12 MOS.	30,000.00
1.60.3	PROVIDE ONE(1) UNIT 4-WHEEL DRIVE VEHICLE FOR ENGINEER	-	LUMP SUM	61,240.70	100.00	-	61,240.70
1.60.6	LABORATORY AND OFFICE EQUIPMENT FOR ENGINEER	-	LUMP SUM	93,000.00	50.00	-	46,500.00
103-2	<u>ROAD AND DRAINAGE STRUCTURES</u> (Secondary Road)	14 EA.	450.00	6,300.00	50.00	7 EA.	3,150.00
105-1	REMOVAL OF CULVERTS ROADWAY AND DRAINAGE EXCAVATION (WASTE)	1,030 CU.M.	16.00/CU.M.	16,480.00	75.24	775 CU.M.	12,400.00
105-3	ROADWAY AND DRAINAGE EXCAVATION	27,640 CU.M.	24.38/CU.M.	673,863.20	63.68	17,600 CU.M.	429,088.00
106	EXCAVATION FOR STRUCTURES	610 CU.M.	22.60/CU.M.	13,420.00	45.90	280 CU.M.	6,160.00
107	BOROW	12,060 CU.M.	34.00/CU.M.	410,040.00	86.23	10,400 CU.M.	353,600.00
108	AGGREGATE SUBBASE CLASS "A"	23,270 CU.M.	47.00/CU.M.	1,093,690.00	25.78	6,000 CU.M.	279,510.00
110	FOUNDATION FILL	90 CU.M.	53.00/CU.M.	4,770.00	24.44	22 CU.M.	1,166.00
111	OVERHAUL (300 M. FREEHAUL)	3,200 STA.M.	0.20/STA.h.	640.00	50.00	1,600 Sta. m.	320.00
200	CHUSHED AGGREGATE BASE COURSE (GRADING "B")	13,420 CU.M.	54.00/CU.M.	724,680.00	0	0	0
302-1	MEDIUM CURING OUTBACK ASPHALT (GRADING MC-1) FOR BITUMINOUS PRIME COAT	102 M.T.	2,215.00/M.T.	225,930.00	0	0	0
314-1	AGGREGATE MATERIAL FOR BST (HOT ASPHALT TYPE)	1,385 CU.M.	100.00/CU.M.	138,500.00	0	0	0

**ITEMIZED COMPUTED ACCOMPLISHMENT**  
(As of March 25, 1980)

**CALABUNGA-MANGUIRING BRIDGE SECTION**

Sheet 2 of 3

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT		
					Percentage Based on Bid Quantities	Quantity/Volume	VALUE
314-3	85-100 PENETRATION ASPHALT CEMENT FOR BITUMINOUS SURFACE TREATMENT	201 M.T.	P 2,270.00/M.T.	456,270.00	0	0	0
405	COMPLETE CLASS "A" (FOR DRAINAGE & MISCELLANEOUS STRUCTURES)	340 CU.M.	680.00/CU.M.	231,200.00	11.18	38 CU.M.	25,840.00
406	REINFORCING STEEL (FOR DRAINAGE & MISCELLANEOUS STRUCTURES)	29,189 KG.	6.50/KG.	189,729.00	13.70	4,000 KG.	26,000.00
412	STONE MASONRY	3 CU.M.	250.00/CU.M.	750.00	0	0	0
413-2	0.60 M.Ø REINFORCED CONCRETE PIPE	81 L.M.	320.00/L.M.	25,920.00	64.20	52 L.M.	16,640.00
413-3	0.90 M.Ø REINFORCED CONCRETE PIPE	53 L.M.	550.00/L.M.	29,150.00	83.02	44 L.M.	24,200.00
413-4	1.20 M.Ø REINFORCED CONCRETE PIPE	45 L.M.	850.00/L.M.	38,250.00	22.15	35 L.M.	29,750.00
510	RIGHT-OF-WAY MARKERS	158 EA.	40.00/EA.	6,320.00	0	0	0
<b>ROAD AND DRAINAGE STRUCTURES</b> (Feeder Road 301, Labog-Binaruanan)							
100	CLEARING AND GRUBBING	0.50 HA.	4,500.00/HA.	2,250.00	100.00	0.50 HA.	2,250.00
103-2	REMOVAL OF CULVERTS (RCPC)	1 EA.	480.00/Ea.	480.00	0	0	0
105-1	ROADWAY AND DRAINAGE EXCAVATION (WASTE)	19,680 CU.M.	16.00/CU.M.	314,880.00	62.58	10,348 CU.M.	165,568.00
105-3	ROADWAY AND DRAINAGE EXCAVATION	54,510 CU.M.	24.38/CU.M.	1,328,953.80	78.97	43,046 CU.M.	1,049,461.48
106	EXCAVATION FOR STRUCTURES	1,020 CU.M.	22.00/CU.M.	22,440.00	30.49	311 CU.M.	6,482.00
108	AGGREGATE SUBBASE (CLASS "A")	18,140 CU.M.	47.00/CU.M.	852,580.00	43.73	6,300 CU.M.	296,100.00
110	FOUNDATION FILL	140 CU.M.	53.00/CU.M.	7,420.00	57.14	80 CU.M.	4,240.00
203-2	SOIL ASPHALT BASE COURSE	4,000 S <sub>4</sub> .M.	44.00/S <sub>4</sub> .M.	176,000.00	0	0	0
305-1	COVER MATERIALS FOR BITUMINOUS SEAL COAT	24 CU.M.	110.00/CU.M.	2,640.00	0	0	0
305-3	EMULSIFIED ASPHALT GRADE, SS FOR BITUMINOUS SEAL COAT	6 M.T.	2,400.00/M.T.	14,400.00	0	0	0
405	CONCRETE CLASS "A" (FOR DRAINAGE AND MISCELLANEOUS STRUCTURES)	560 CU.M.	680.00/CU.M.	380,800.00	66.96	375 CU.M.	255,000.00

ITEMIZED COMPUTED ACCOMPLISHMENT  
( As of March 25, 1980 )

CALABANGA-MANGUIRING BRIDGE SECTION

Sheet 3 of 3

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT		
					Percentage Based on Bid Quantities	Quantity/Volume	VALUE
406	REINFORCING STEEL (DRAINAGE AND MISCELLANEOUS STRUCTURES)	49,556 KG.	6.50/KG.	322,114.00	72.96	11,168 (50%)	36,296.00
413-2	0.60 M.Ø REINFORCED CONCRETE PIPE	109 L.M.	320.00/L.M.	34,880.00	61.47	30,574	198,731.00
413-4	1.20 M.Ø REINFORCED CONCRETE PIPE	110 L.M.	850.00/L.M.	93,500.00	0	67 L.M.	21,440.00
510	RIGHT-OF-WAY MARKERS	380 EA.	40.00/EA.	15,200.00	0	0	0
<u>ROAD AND DRAINAGE STRUCTURES</u> (Feeder Road 302, Manguring-Cumung)							
105-2	REMOVAL OF CULVERTS	3 EA.	450.00/EA.	1,350.00	66.67	2 EA.	900.00
105-7	ROADWAY AND DRAINAGE EXCAVATION (WASTE)	6,140 CU.M.	16.00/CU.M.	98,240.00	65.15	4,000 CU.M.	64,000.00
105-3	ROADWAY AND DRAINAGE EXCAVATION	9,660 CU.M.	24.38/CU.M.	235,510.00	53.83	5,200 CU.M.	126,776.00
106	EXCAVATION FOR STRUCTURES	100 CU.	22.00/CU.M.	2,200.00	50.00	50 CU.M.	1,100.00
108	AGGREGATE SUBBASE (CLASS "A")	7,100 CU.M.	47.00/CU.M.	333,700.00	37.58	2,668 CU.M.	125,396.00
110	FOUNDATION FILL	20 CU.M.	53.00/CU.M.	1,060.00	80.00	18 CU.M.	848.00
405	CONCRETE CLASS "A" (FOR DRAINAGE AND MISCELLANEOUS STRUCTURES)	40 CU.M.	680.00/CU.M.	27,200.00	0	0	0
406	REINFORCING STEEL (DRAINAGE AND MISCELLANEOUS STRUCTURES)	90 KG.	650.00/KG.	585.00	0	0	0
413-2	0.60 M.Ø REINFORCED CONCRETE PIPE	18 L.M.	320.00/L.M.	5,760.00	100.00	18 L.M.	5,760.00
413-4	1.20 M.Ø REINFORCED CONCRETE PIPE	26 L.M.	850.00/L.M.	22,100.00	100.00	26 L.M.	22,100.00
510	RIGHT-OF-WAY MARKERS	174 EA.	40.00/EA.	6,960.00	0	0	0
<b>TOTAL</b>				<b>₱8,788,666.90</b>			<b>₱2,731,023.18</b>



Republic of the Philippines  
MINISTRY OF PUBLIC HIGHWAYS  
M a n i l a

MONTHLY CONSTRUCTION REPORT

For

Sub-project 3  
Contract Package No. 3

SEVEN BRIDGES, CALABANGA-TINAMBAC ROAD

NO. 14

MARCH, 1980

TECHNICS GROUP CORPORATION

PROGRESS REPORT NO. 14

March, 1980

PROJECT: SEVEN BRIDGES, CALABANGA-TINAMBAC ROAD  
Sub-project 3, Contract Package 3

CONTRACTOR: A. L. SARMIENTO CONSTRUCTION

- I. Construction operation in this project was temporarily suspended.  
All supporting papers hereof are no longer included in this report.  
Same have already been submitted in previous report.

Republic of the Philippines  
MINISTRY OF PUBLIC HIGHWAYS  
Manila

MONTHLY CONSTRUCTION REPORT

for

Subproject 3  
Contract Package No. 2

MANGUILING BRIDGE-TINAMBAC SECTION

MARCH 1980

TECHNICAL GROUP CORPORATION

PROGRESS REPORT NO. 13  
March 1980

PROJECT: MANGUIRING BRIDGE-TINAMBAC SECTION  
(Sub-Project 3, Contract Package No. 2)

CONTRACTOR: KAMAGONG BUILDERS & DEVELOPERS CORP.

I. GENERAL

The construction activities of the Contractor during this period covers the following:

1. Construction Survey
2. Earthwork Operation
3. Laying of RC Pipes
4. Sampling and testing of construction materials

II. WEATHER

The weather condition was generally good except for three (3) days of unworkable soil condition due to rains caused by typhoon "Bering" during the last part of the period as shown in the attached Weather Report.

III. MOBILIZATION

The Contractor has not made any change during the period in his List of Personnel as shown in Annex "D-A" and in his List of Equipment as shown in Annex "D-B".

IV. PROGRESS OF WORK

The status of the project to date is as follows:

- |                                |       |
|--------------------------------|-------|
| A. % Accomplishment - - - - -  | 16.41 |
| B. % Time Elapsed - - - - -    | 39.26 |
| C. Negative Slippage - - - - - | 10.66 |

ROADS AND DRAINAGE STRUCTURES:

A. Manguring Bridge-Tinambac Section (Secondary Road)

Construction Survey

1. Profile or Vertical Control (Completed)
2. Cross-sectioning (Completed)
3. Checking of Alignment or Horizontal Control (Completed)
4. Computation of cross-section data are in progress

Earthworks

Item 103-2: REMOVAL OF CULVERTS (RCP)

Removal of existing and defective pipe culverts was done at Sta. 17 + 419.

Item 105: ROADWAY AND DRAINAGE EXCAVATION

An approximate volume of 23,392 cu.m. were excavated at the following stations:

STATION	VOLUME	REMARKS
14+550 to 15+075	356 cu.m.	in progress
16+775 to 18+175	21,462 cu.m.	in progress
18+400 to 18+700	1,574 cu.m.	in progress

Total - 23,392 cu.m.

Item 106: EXCAVATION FOR STRUCTURES

Excavation for structures was done at Sta. 17 + 419.

Item 107: BORROW

Considered partial accomplishment for this period is an estimated volume of 841 cu.m. which were hauled, spread and compacted between station 15 + 2+1.04 to Sta. 15 + 712.23.

Item 110: FOUNDATION FILL

1.575 cu.m. of foundation fill material was spread and tamped at Sta. 17 + 419 to complete the section.

DRAINAGE STRUCTURES:

Item 413: REINFORCED CONCRETE PIPES

Item No.	Station	Length
413-4 (1.20 M Ø)	17 + 419	7.20 L.M.

B. Hubo-Balao (Feeder Road 303)

Construction Survey

1. Alignment was started up to P.I. No. 12, Sta. 1 + 814.88
2. Vertical Control up to Sta. 0 + 475

V. MATERIALS TESTING AND CONTROL

Collected samples at Sta. 17 + 500 for field laboratory test.

Compaction work at Sta. 17 + 425 to Sta. 17 + 500.

Tests done during this period were as follows:

1. Sieve analysis
2. Plastic and Liquid Limit Determination
3. Laboratory Compaction Test

COMMENTS AND RECOMMENDATION

Rains brought by depression "bering" on March 23 and 24 have caused landslides causing vehicular traffic delay for two (2) days at the following stations:

<u>STATION</u>	<u>REMARKS</u>
16.740 to 16.750	right side
17.375 to 17.400	right side
17.775 to 17.800	right side

The left side shoulder, Sta. 11 + 970 to Sta. 11 + 978, of the existing concrete pavement was also eroded and washed out by rains.

Repeated verbal and written instructions were given to the Contractor to balance his equipment in the field to further improve his work progress in the project. More dump trucks and rollers should be fielded. It was also suggested that overtime work should be done during good weather. Furthermore, the Contractor has been advised to concentrate also in the installation and construction of drainage structures which are already far behind schedule.

SUMMARY OF ACCOMPLISHMENT OF MAJOR ITEM (Accumulated as of this Period)

SECONDARY ROAD

Road

Subgrade

Item 105: ROADWAY AND DRAINAGE EXCAVATION

Km.	5.056	partial
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Item 107: DORROW

Km.	0.471	partial
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OTHER DRAINAGE STRUCTURES:

ITEM NO.	DESCRIPTION	% ACCOMPLISHMENT
413-2	0.60 M Ø RCP	3.04%
413-4	1.20 M Ø RCP	25.00%

67

PROJECT: MANGUIRING BRIDGE-TINAMBAC SECTION  
 (Sub-Project 3, Contract Package No. 2)

WEATHER REPORT

<u>Date - 1980</u>	<u>Weather Condition</u>	<u>Remarks</u>	<u>Time Extension Recommended</u>
February 26	Fair	Workable	None
27	Fair	-do-	-do-
28	Fair	-do-	-do-
29	Fair	-do-	-do-
March 1	Sunny	-do-	-do-
2	Sunny	-do-	-do-
3	Sunny	-do-	-do-
4	Sunny	-do-	-do-
5	Sunny	-do-	-do-
6	Sunny	-do-	-do-
7	Sunny	-do-	-do-
8	Sunny	-do-	-do-
9	Sunny	-do-	-do-
10	Sunny	-do-	-do-
11	Sunny	-do-	-do-
12	Sunny	-do-	-do-
13	Sunny to cloudy	-do-	-do-
14	Sunny	-do-	-do-
15	Sunny	-do-	-do-
16	Good	-do-	-do-
17	Good	-do-	-do-
18	Good	-do-	-do-
19	Good	-do-	-do-
20	Sunny	-do-	-do-
21	Sunny	-do-	-do-
22	Sunny	-do-	-do-
23	Typhoon "Biring"	Unworkable	1 day
24	Typhoon "Biring"	-do-	1 day
25	Cloudy	-do-	1 day

TIME EXTENSION RECOMMENDED THIS MONTH - - - - - 3 days

TIME EXTENSION RECOMMENDED PREVIOUSLY - - - - - 80 days

GRAND TOTAL TO DATE - - - - - 83 days

KAMAGONG BUILDERS & DEVELOPERS CORP.  
MANGUIRNG BRIDGE-TINANBAC SECTION  
(Sub-Project 3, Contract Package No. 2)  
Bo. Paolbo, Calabanga, Camarines Sur

LIST OF PERSONNEL  
(as of March 25, 1980)

<u>NAME</u>	<u>DESIGNATION</u>
1. Amor R. Paguyo	Acting Project Engineer
2. Crispin M. Aboga	Construction Foreman
3. Jean Chavez	C. E. Aide
4. Angel M. Aboga	Laboratory Technician
5. Domingo Buella	Instrumentman
6. Rustico Cabaña	Survey Aide
7. Manuel Santillan	Survey Aide
8. Benjamin Pura	Bulldozer Operator
9. Flaviano Gamboa	Bulldozer Operator
10. Efren Pron	Bulldozer Operator
11. Espiridion Laurea	Grader Operator
12. Romeo Vale	Roadroller Operator
13. Leonardo Andal	Service Driver
14. Tomas Otordoz	Dump Truck Driver
15. Luciano Austria	Dump Truck Driver
16. Pedro Ducta	Mechanic
17. Bernardo de Sena	Mechanic
18. Edmundo Baguio	Helper
19. Deogenes Hitta	Fuel Tender
20. Maximo Juarez	Welder

One (1) Security Guard from PEFTOK Security Agency.

Submitted by:

(SGD.) AMOR R. PAGUYO  
Actg. Project Engineer

KALINGONG BUILDERS & DEVELOPERS CORP.  
 MANGUING BRIDGE-TIMABAC SECTION  
 (Sub-Project 3, Contract Package No. 2)  
 Eo. Paolbo, Calabanga, Camarines Sur

LIST OF EQUIPMENT  
 (As of March 25, 1980)

<u>TYPE</u>	<u>MODEL</u>	<u>SERIAL NO.</u>	<u>DATE OF ARRIVAL</u>
1. Bulldozer	CA D7G	65VI791	August 12, 1979
2. Bulldozer	Cat. D6C	695U499	August 12, 1979
3. Bulldozer	Cat. D7E	48A1226	September 10, 1979
4. Bulldozer	Kom. D80A	14257	October 8, 1979
5. Wheel Loader	Cat. 950	52-39891	August 12, 1979
6. Wheel Loader	Kom. J60	509566	August 12, 1979
7. Vibro Roller	Dynapac C.25	497666	October 8, 1979
8. Road Roller	Kato D. 120	505005	August 12, 1979
9. Motor Grader	Cat. 12G	61M5588	October 8, 1979
10. Transit Mixer	Ford	802-1747	August 12, 1979
11. Transit Mixer	Hino-SM100	DK-10	August 12, 1979
12. Transit Mixer	Hino-SM100	DK-12	August 12, 1979
13. Dump Truck	Hino-KB100	25656	August 12, 1979
14. Dump Truck	Hino-KB100	14392	August 20, 1979
15. Dump Truck	Isuzu SPZ	1749056	August 20, 1979
16. Dump Truck	Isuzu SPZ	1956241	September 12, 1979
17. Service Vehicle	Toyota KF 101	3K-7600232	September 12, 1979
18. Service Vehicle	Toyota KF 101	3K-7600323	August 12, 1979
			October 4, 1979

Submitted by:

(SGD.) AMOR R. PAGUYO  
 Atg. Project Engineer

ITEM NO.	DESCRIPTION	
1.60.1	FORCE ACCOUNT WORK (MAINTENANCE & REPAIR OF DETOUR RDS & SPILLWAYS)	
1.60.2	MAINTENANCE & REPAIR OF LABORATORY & OFFICE FOR ENGINEER	
1.60.3	OFFICE EQUIPMENT FOR ENGINEER	
100	CLEARING AND GRUBBING	FR.303
103-2	REMOVAL OF CULVERTS	SEC.RD
105-1	ROADWAY AND DRAINAGE EXCAVATION (WASTE)	SEC.RD FR.303
105-3	ROADWAY AND DRAINAGE EXCAVATION	SEC.RD FR.303
106-1	EXCAVATION FOR STRUCTURES (DRAINAGE)	SEC.RD FR.303
107	BORROW	SEC.RD
108	AGGREGATE SUBBASE	SEC.RD FR.303
110	FOUNDATION FILL	SEC.RD FR.303
111	OVERHAUL (300 M. FREE HAUL)	SEC.RD
200	GRAVEL BASE COURSE GRADING B (SHOULDERING)	SEC.RD
203-2	SOIL-ASPHALT BASE COURSE	FR.303
305-1	COVER MATERIAL FOR BITUMINOUS SEAL COAT	FR.303
305-3	EMULSIFIED ASPHALT FOR BITUMINOUS SEAL COAT	FR.303
316	PORTLAND CEMENT CONCRETE PAVEMENT, 0.20 M. THICK	SEC.RD
405-1	CONCRETE CLASS "A" (FOR DRAINAGE & MISC. STRUCTURES)	SEC.RD FR.303
406	REINFORCING STEEL (FOR DRAINAGE & MISC. STRUCTURES)	SEC.RD FR.303
412	STONE MASONRY (FOR DRAINAGE & MISC. STRUCTURES)	SEC.RD
413-2	0.60 M. DIA. REINFORCED CONCRETE PIPE	SEC.RD FR.303
413-3	0.90 M. DIA. REINFORCED CONCRETE PIPE	SEC.RD FR.303
413-4	1.20 M. DIA. REINFORCED CONCRETE PIPE	SEC.RD FR.303
500-1	RIPRAP AND GROUTED	SEC.RD
500-2	RIPRAP AND GROUTED (LOOSE AND DUMP)	SEC.RD
510	R.O.W. MARKERS	SEC.RD FR.303
5PL	CONCRETE BARRIERS	SEC.RD
T O T A L S		

BAR S

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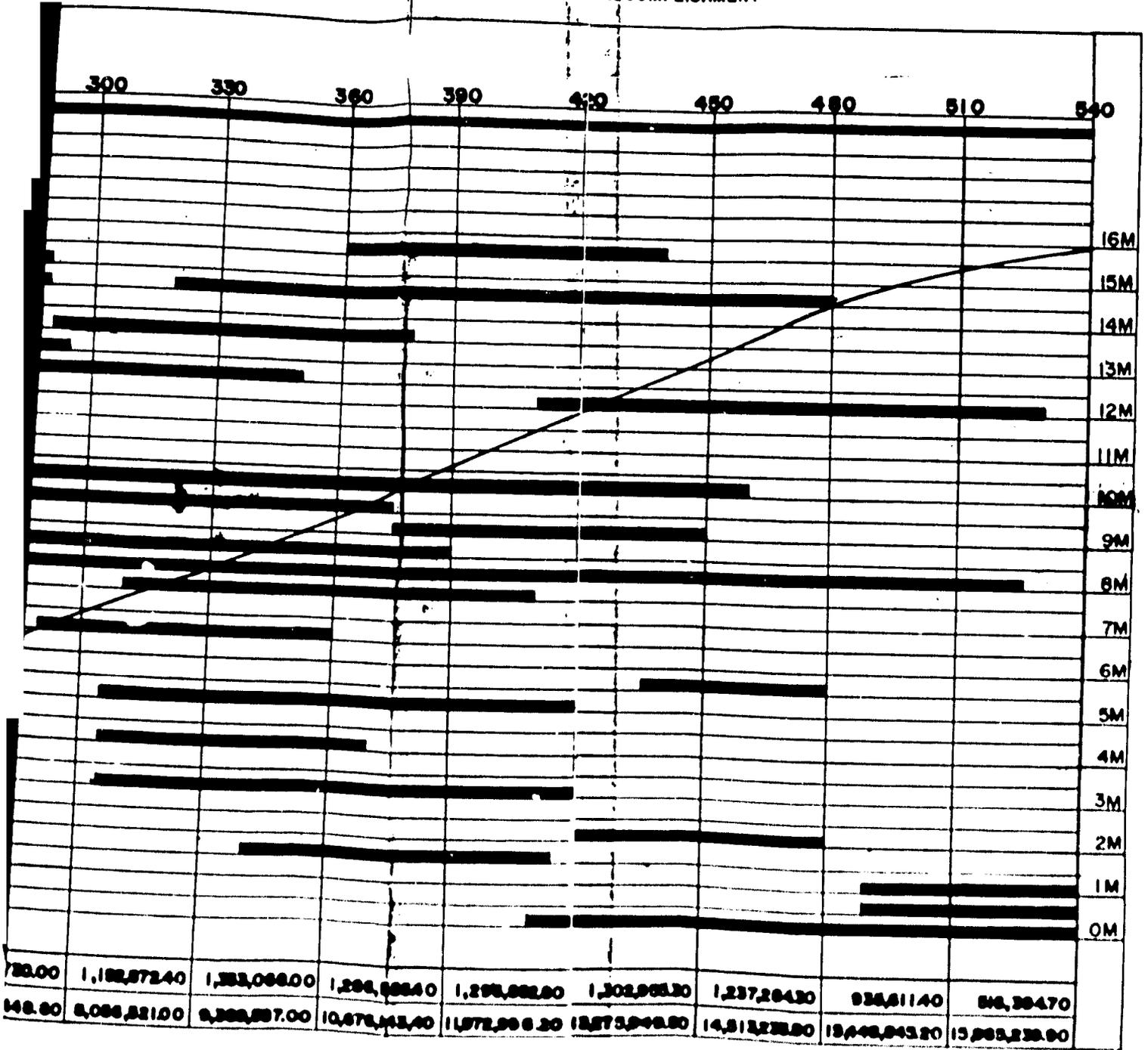
MARCH 12, 1979  
START OF CONTRACT TIME

	ESTIMATED % WEIGHT		QUANTITY	UNIT COST	AMOUNT	
	SCHEDULED	ACCOMPLISHED				
	ITEM	PROJECT				
AV	0.3758	20.0000	0.0752	LUMP SUM	-	P 60,000.00
	0.1318	3.3333	0.0438	6 mes.	P 3,500.00	21,000.00
	0.0983	38.0000	0.0374	LUMP SUM	-	15,895.80
OB	0.0381			158 Ha.	4,500.00	6,075.00
RA	0.0892	4.3478	0.0030	23 Es.	480.00	11,040.00
RA	3.3314	21.4662	2.7140	33,242 Cu.M.	16.00	531,872.00
OI	2.1346			21,300 Cu.M.	16.00	340,800.00
OD	23.5518	49.8676	11.7447	144,618 Cu.M.	26.00	3,760,084.00
OI	4.0974			25,160 Cu.M.	26.00	654,160.00
RA	0.2084	8.7107	0.0182	1,331 Cu.M.	26.00	33,275.00
OI	0.0298			190 Cu.M.	25.00	4,750.00
RA	3.7582	37.8200	1.4213	20,000 Cu.M.	30.00	600,000.00
OD	6.2729			25,037 Cu.M.	40.00	1,001,480.00
OI	3.5877			14,200 Cu.M.	40.00	568,000.00
OD	0.0090	76.378	0.0036	30 Cu.M.	48.00	1,440.00
OI	0.0489			156 Cu.M.	48.00	7,488.00
OD	0.1046	38.1727	0.0399	55,668 SL M.	0.30	16,700.40
OD	0.3445			1,100 Cu.M.	50.00	55,000.00
OI	0.4828			1,640 Cu.M.	47.00	77,080.00
OI	0.0089			10 Cu.M.	110.00	1,100.00
OI	0.0451			3 M.T.	2,400.00	7,200.00
OD	44.5550			74,563 SqM	95.40	7,113,310.20
OD	1.9236			418 Cu.M.	740.00	307,100.00
OI	0.1291			30 Cu.M.	740.00	22,200.00
OD	0.8841			20,184 Kg	7.00	141,148.00
OI	0.0158			360 Ha.	7.00	2,520.00
OD	0.0470			30 Cu.M.	250.00	7,500.00
OD	0.5042	3.0435	0.0153	230 L.M.	350.00	80,300.00
OD	0.1644			75 L.M.	350.00	26,250.00
OD	0.7328			195 L.M.	600.00	117,000.00
OD	0.1503			40 L.M.	600.00	24,000.00
OD	1.1725	25.0000	0.2931	208 L.M.	900.00	187,200.00
OI	0.1409			26 L.M.	900.00	23,400.00
OD	0.0981			58 Cu.M.	160.00	9,280.00
OD	0.0921			140 Cu.M.	105.00	14,700.00
OD	0.1190			442 Es.	43.00	19,006.00
OI	0.0625			232 Es.	43.00	9,976.00
OI	0.5437			560 Es.	15.50	8,680.00
	100.0000	16.4095				P 15,965,239.90
THIRTY (30) DAY PERIODICAL ACCOMPLISHMENT					276,841.15.85	412,364.30
CUMULATIVE TOTAL AMOUNT						608,008.28



**LEGEND:**

-  PREVIOUS ACCOMPLISHMENT
-  PROGRESS THIS REPORT
-  SCHEDULED WORK
-  SCHEDULED ACCOMPLISHMENT
-  ACTUAL ACCOMPLISHMENT



ITEMIZED COMPUTED ACCOMPLISHMENT  
(As of March 25, 1980)

Maguiling Bridge-Tinambac Section

Sheet 1 of 3

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT		
					Percentage Based on bid Quantities	Quantity/ Volume	Value
<u>GENERAL</u>							
1.60.1	FORSE ACCOUNT WORK (MAINTENANCE AND REPAIR OF DETOUR ROAD AND SPILLWAY)		LUMP SUM	60,000.00	20.00	-	12,000.00
1.60.2	MAINTENANCE AND REPAIR OF LABORATORY AND OFFICE FOR ENGINEER	6 MO.	LUMP SUM	21,000.00	2	-	7,000.00
1.60.5	OFFICE EQUIPMENT FOR ENGINEER		LUMP SUM	15,695.30	38	-	5,964.21
<u>ROADS AND DRAINAGE STRUCTURES</u> (Secondary Road)							
103-2	REMOVAL OF CULVERTS	23 EA.	480.00 EA.	11,040.00	4.35	.1	480.00
105-1	ROADWAY AND DRAINAGE EXCAVATION (WASTE)	33,242 CU.M.	16.00/CU.M.	531,872.00	81.47	27,031 CU.M.	433,296.00
105-3	ROADWAY AND DRAINAGE EXCAVATION	144,619 CU.M.	26.00/CU.M.	3,760,094.00	49.87	72,118 CU.M.	1,875,068.00
106	EXCAVATION FOR STRUCTURES	1,331 CU.M.	25.00/CU.M.	33,275.00	8.71	115.92 CU.M.	2,898.50
107	BORROW	20,000 CU.M.	30.00/CU.M.	600,000.00	37.82	7,564 CU.M.	226,920.00
108	AGGREGATE SUBBASE	25,037 CU.M.	40.00/CU.M.	1,001,480.00	0	0	0
110	FOUNDATION FILL	156 CU.M.	48.00/CU.M.	7,488.00	7.64	11.915 CU.M.	571.92
111	OVERHAUL (300 M. PHD)	55,668 STA.M.	0.30/STA.M.	16,700.40	38.17	21,250 STA.M.	6,375.00
200	GRAVEL BASE COURSE GRADING "B" (SHOULDERING)	1,100 CU.M.	50.00/CU.M.	55,000.00	0	0	0
316	PORTLAND CEMENT CONCRETE PAVEMENT 0.20 M (8") THICK	74,563 SQ.M.	95.40/SQ.M.	7,113,310.20	0	0	0
405-1	CONCRETE CLASS "C" (DRAINAGE AND MISCELLANEOUS STRUCTURES)	415 CU.M.	740.00/CU.M.	307,100.00	0	0	0
406	REINFORCING STEEL (DRAINAGE AND MISCELLANEOUS STRUCTURES)	20,164 KG.	7.00/KG.	141,148.00	0	0	0
412	STONE MASONRY (DRAINAGE AND MISCELLANEOUS STRUCTURES)	30 CU.M.	250.00/CU.M.	7,500.00	0	0	0

ITEMIZED COMPUTED ACCOMPLISHMENT  
(As of March 25, 1980)

Manguiring Bridge-Tinambac Section

Sheet 2 of 3

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT		
					Percentage Based on Bid Quantities	Quantity/Volume	Value
413-2	0.80 M. DIA. REINFORCED CONCRETE PIPE CULVERT	230 L.M.	350.00/L.M.	80,500.00	3.04	7 L.M.	2,450.00
413-3	0.90 M. DIA. REINFORCED CONCRETE PIPE CULVERT	195 L.M.	600.00/L.M.	117,000.00	0	0	0
413-4	1.20 M. DIA. REINFORCED CONCRETE PIPE CULVERT	208 L.M.	900.00/L.M.	187,200.00	25.00	52 L.M.	46,800.00
500-1	RIPRAP AND GROUTED	58 CU.M.	160.00/CU.M.	9,280.00	0	0	0
500-2	RIPRAP AND GROUTED (LOOSE OR DUMP STONE)	140 CU.M.	105.00/CU.M.	14,700.00	0	0	0
510	RIGHT-OF-WAY MARKERS	442 EA.	43.00 EA.	19,006.00	0	0	0
SFL	CONCRETE BARRIERS	560 EA.	155.00 EA.	86,800.00	0	0	0
<u>ROADS AND DRAINAGE STRUCTURES</u> (Feeder Road No. 303)							
100	CLEARING AND GRUBBING	1.35 HA.	4,500.00/HA.	6,075.00	0	0	0
105-1	ROADWAY AND DRAINAGE EXCAVATION (WASTE)	21,300 CU.M.	16.00/CU.M.	340,800.00	0	0	0
105-3	ROADWAY AND DRAINAGE EXCAVATION	25,160 CU.M.	26.00/CU.M.	654,160.00	0	0	0
106	EXCAVATION FOR STRUCTURES	190 CU.M.	25.00/CU.M.	4,750.00	0	0	0
108	AGGREGATE SUBBASE	14,200 CU.M.	40.00/CU.M.	568,000.00	0	0	0
110	FOUNDATION FILL	30 CU.M.	48.00/CU.M.	1,440.00	0	0	0
203-2	SOIL ASPHALT BASE COURSE	1,640 SQ.M.	47.00/SQ.M.	77,080.00	0	0	0
305-1	COVER MATERIALS FOR BITUMINOUS SEAL COAT	10 CU.M.	110.00/CU.M.	1,100.00	0	0	0
305-3	EMULSIFIED ASPHALT FOR BITUMINOUS SEAL COAT	3 M.T.	2,400.00/M.T.	7,200.00	0	0	0
405-1	CONCRETE CLASS "A" (DRAINAGE AND MISCELLANEOUS STRUCTURES)	30 CU.M.	740.00/CU.M.	22,200.00	0	0	0
406	REINFORCING STEEL (DRAINAGE AND MISCELLANEOUS STRUCTURES)	360 KG.	7.00/KG.	2,520.00	0	0	0

ITEMIZED COMPUTED ACCOMPLISHMENT  
(As of March 25, 1980)

Manguiring Bridge-Tinambac Section

Sheet 3 of 3

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT		
					Percentage Based on Bid Quantities	Quantity/Volume	Value
413-2	0.90 M. DIA. REINFORCED CONCRETE PIPE CULVERT	75 L.M.	350.00/L.M.	26,250.00	0	0	0
413-3	0.90 M. DIA. REINFORCED CONCRETE PIPE CULVERT	40 L.M.	600.00/L.M.	24,000.00	0	0	0
413-4	1.20 M. DIA. REINFORCED CONCRETE PIPE CULVERT	25 L.M.	900.00/L.M.	22,500.00	0	0	0
510	RIGHT-OF-WAY MARKERS	232 EA.	43.00 EA.	9,976.00	0	0	0
TOTAL				<u>15,965,239.90</u>			<u>2,619,823.63</u>

Republic of the Philippines  
MINISTRY OF PUBLIC HIGHWAYS  
M a n i l a

MONTHLY CONSTRUCTION REPORT

For

Sub-project 2

DAVAO-PASACAO ROAD  
Secondary Road

ITOLAN-BAHAY COCO NO. 201  
PASACAO-CARANAN-MACAD NO. 202  
PASACAO-FORT ROAD NO. 203  
Feeder Roads

NO. 11

MARCH, 1980

TECHNICS GROUP CORPORATION

PROGRESS REPORT NO. 11

March, 1980

PROJECT: DANA0-PASACAO ROAD

CONTRACTOR: CBT CONSTRUCTION AND EQUIPMENT CORPORATION

I. GENERAL

This eleventh periodic report covers the progress of the construction activities of the Contractor during the month of March, 1980.

The construction activities were as follows:

1. Construction Survey
2. Earthwork and Subbase Operations
3. Driving of bearing piles and laying of R.C. pipes
4. Cement concrete pouring for miscellaneous structures
5. Stockpiling of subbase materials and concrete fine and coarse aggregate
6. Sampling and testing of construction materials

II. WEATHER

Weather condition was favorable except for the last two (2) days of the report period when works were suspended due to unworkability of the soil brought about by tropical depression "Bering" as shown in the attached Weather Report.

III. MOBILIZATION

There was no significant change in both the Contractor's List of Personnel and Heavy Equipment except for the transfer of one foreman and a dump truck to another project out of the region as shown in the Annexes "E-A" and "E-D" respectively.

A strongly worded memorandum was issued to the Contractor directing him to supply the complete list of laboratory equipment specified in the contract in order to avoid unnecessary delay in the performance of field quality control tests.

#### IV. PROGRESS OF WORK

The total work accomplished as of this period is 30.87% while the time elapsed is 54.25%.

The major factor that contributed to the high negative slippage was the Contractor unwillingness to start concrete pouring work (Item 316).

Other factors were the following:

- a. Delay earthwork activities in the first three kilometer of the secondary road due to Contractor's intention to look for a nearer borrow source but still futile.
- b. Lack of coarse and fine aggregate for casting bearing piles.
- c. Insufficient hauling and rolling equipment.

#### ROAD AND DRAINAGE STRUCTURES

##### A. Secondary Road:

##### Construction Surveys:

1. Computation of cross-section data are in progress.
2. Re-checking of horizontal alignment from Sta. 0 + 900 to Sta. 3 + 100.

##### Earthwork:

##### Item 106: EXCAVATION FOR STRUCTURES

1,509.66 cu.m. of this item were undertaken by the Contractor during the period at stations where construction of RCBC and laying of H.C. pipes were required.

Item 107: BORROW

350 cu.m. of borrow materials were hauled, spread and compacted between stations 8 + 750 and Sta. 8 + 850.

Item 110: FOUNDATION FILL

During this period, the Contractor was able to spread and tamped 348.79 cu.m. of this item at stations where R.C. pipes were laid.

BRIDGE AND DRAINAGE STRUCTURES

Cutting and bending of 6,000 kilos of reinforcing steel bars for various parts of Odicon bridge are in progress. Placing of concrete forms for coping at Abutment B was also undertaken by the Contractor during the month.

Item 402-2.5: PRECAST CONCRETE PILES

A total of 25 bearing piles were driven at the Pier, Abutment A & B of Odicon bridge during the period.

Item 405: CONCRETE CLASS "A"

4.173 cu.m. of cement has been poured for the construction of headwall (both sides) at Sta. 8 + 069.

Item 406: REINFORCING STEEL

10.18 kilos of reinforcing steel were incorporated during the construction of headwall at Sta. 8 + 069.

Item 413: REINFORCED CONCRETE PIPES

20 L.M. of R.C. Pipes were installed at the following stations:

<u>Item No.</u>	<u>Station</u>	<u>Length</u>	<u>Remarks</u>
413-4	0 + 592	10 L.M.	to complete the line
413-4	1 + 010	4 L.M.	-do-
413-4	4 + 714	6 L.M.	-do-
		<u>Total =</u>	20 L.M.

B. Feeder Roads:

B.1 Feeder Road 201 (Itolan-Bahay -Coco Road)

Construction Survey:

1. Checking of subgrade elevation
2. Computation of cross-section data are in progress

Earthwork:

Item 103-2: REMOVAL OF CULVERTS (RCP)

Removal of existing defective culvert pipes were done at the following stations:

<u>STATION</u>	<u>LINE</u>	<u>REMARKS</u>
2 + 985	one line	
2 + 887	half lane	to complete the line

Item 105: ROADWAY AND DRAINAGE EXCAVATION

Layers of embankment involving 1,600 cu.m. of excavated materials were spread and compacted between Stations 3 + 000 and 3 + 250 and considered as accomplishment during the month.

Item 106: EXCAVATION FOR STRUCTURES

302.87 cu.m. of this item were considered accomplished <sup>at</sup> stations where construction of RCBC and culvert pipes are required.

Item 107: BORROW

First layer involving 1,200 cu.m. of borrow materials were hauled, spread and compacted at Sta. 3 + 675 to Sta. 4 + 520.

Item 110: FOUNDATION FILL

0.58 cu.m. of foundation fill has been spread and tamped preparatory to H. C. pipe laying at Sta. 1 + 025.

## DRAINAGE AND EROSION WORKS

### Item 406: REINFORCING STEEL

Cutting and bending of 5,032.16 kilos of reinforcing steel bars intended for the construction of RCBC at Sta. 4 + 127 were undertaken during the month.

### Item 413: REINFORCED CONCRETE PIPES

Reinforced concrete pipes have been laid at the following stations:

<u>Item No.</u>	<u>Station</u>	<u>Length</u>	<u>Remarks</u>
413-2	3 + 825	12.00 L.M.	whole lane
413-3	2 + 887	8.00 L.M.	to complete the line
413-3	2 + 985	15.00 L.M.	whole lane
413-4	3 + 403	21.00 L.M.	two whole lanes

### B.2 Feeder Road 202 (Pagsanjan-Caranan-Macad Road)

#### Construction Survey:

1. Checking of subgrade elevation
2. Computation of cross-section data are in progress

#### Earthwork:

### Item 103-2: REMOVAL OF CULVERTS (RCP)

Removal of existing and defective pipe culverts (remaining half lane) was done at Sta. 2 + 508.

### Item 104: ROADWAY AND DRAINAGE EXCAVATION

Roadway and drainage excavation undertaken during the period between stations 7 + 500 and 8 + 600 involved 1,550 cu.m. Total accomplishment of this item undertaken during the month was not reported pending final checking and computation of the cross-section data and quality control requirements.

Item 106: EXCAVATION FOR STRUCTURES

728.19 cu.m. of this item was considered accomplished at stations where construction of RCBC and R.C. pipes are required.

Item 107: BORROW

Hauling, spreading and compacting of second and third layers of borrow materials were undertaken between stations 7 + 700 and 8 + 300 involving 5,000 cu.m. Total accomplishment for the period were not reflected pending final checking and computation of the cross-section data and testing requirements.

Item 108: AGGREGATE SUBBASE

7,000 cu.m. of aggregate subbase has been hauled, spread and compacted between stations 4 + 100 and 8 + 680.

Item 110: FOUNDATION FILL

60 cu.m. of foundation fill has spread and tamped at stations where R.C. pipes were laid.

BRIDGES AND DRAINAGE STRUCTURES

Item 405: CONCRETE CLASS "A"

A total of 79.06 cu.m. of cement concrete were poured for the construction of miscellaneous structures at the following stations:

<u>Station</u>	<u>Part of Structure Poured</u>	<u>Volume, Cu.m.</u>
7 + 585 (RCBC)	Bottom Slab	22.68
7 + 400	Headwall, both sides	4.773
4 + 309	-do-	9.798
4 + 675	-do-	1.7982
2 + 508 (RCBC)	Apron	6.447
6 + 921	Headwall, both sides	9.798
1 + 747	-do-	5.992
2 + 220	-do-	13.348
7 + 950		4.429

Total - - - - 79.064

Item 406: REINFORCING STEEL

230.31 kilos of reinforcing steel bars were incorporated in the construction of RCBC at Sta. 7 + 505.

Item 413: REINFORCED CONCRETE PIPES

Various sizes of RCP were installed at the following specified stations:

<u>Item No.</u>	<u>Station</u>	<u>Length L.M.</u>	<u>Remarks</u>
413-2	8 + 250	7.00	to complete the line
413-3	8 + 550	22.00	two whole lines
413-4	6 + 921	5.00	to complete the line

Item 510: RIGHT-OF-WAY MARKERS

125 pieces of right-of-way markers has been furnished and installed at locations specified on the plans during the month.

B.3 Feeder Road 203 (Panacao Port Road)

Construction Surveys:

1. Computation of cross-section data are in progress

Earthwork:

Item 103-2: REMOVAL OF CULVERTS (RCP)

Removal of existing and defective culvert pipes were done at the following stations:

<u>Station</u>	<u>Remark</u>
0 + 774	whole line
0 + 940	-do-
1 + 578.47	to complete the line
1 + 695.15	-do-

Item 105: ROADWAY AND DRAINAGE EXCAVATION

1,000 cu.m. of this item has been undertaken by the Contractor during the month at the specified stations.

Item 106: EXCAVATION FOR STRUCTURES

Additional 137.19 cu.m. of this item were accomplished at stations specified on the plans.

Item 1101: FOUNDATION FILL

27.35 cu.m. of foundation fill were spread and tamped preparatory to laying RCP at the required stations.

DRAINAGE AND EROSION WORKS

Item 413: REINFORCED CONCRETE PIPES

40 L.M. of R.C. Pipes were installed at the following required stations:

<u>Item No.</u>	<u>Station</u>	<u>Length L.M.</u>	<u>Remarks</u>
413-3	0 + 940	10.00	Whole line
413-3	1 + 578	10.00	-do-
413-3	1 + 695.15	10.00	-do-
413-3	0 + 774	10.00	-do-

**IV. SUMMARY OF ACCOMPLISHMENT OF MAJOR ITEM (Accumulated as of this period)**

SECONDARY ROAD:

ROAD:

Subgrade:

Item 105: ROADWAY AND DRAINAGE EXCAVATION

1.8 Km. - - - - - Completed

1.2 Km. - - - - - Partial

Item 107: BOLLICOM

2.8 Km. - - - - - Completed

3.67 Km. - - - - - Partial

Subbase:

0.90 Km. - - - - - Completed

0.70 Km. - - - - - Partial

**BRIDGE:**

Substructure:

Two (2) test piles were already driven.

Twenty five (25) bearing piles were driven at Abutment

"A and B" and Pier.

OTHER DRAINAGE STRUCTURES:

Item 413: REINFORCED CONCRETE PIPE CULVERTS

<u>Item No.</u>	<u>Description</u>	<u>% Accomplishment</u>
413-2	0.60 M. DIA. RCP	93.23
413-3	0.90 M. DIA. RCP	77.99
413-4	1.20 M. DIA. RCP	84.90

FEEDER ROAD 201 (Itolan-Bahay Coco):

ROAD:

Subgrade:

Item 105: ROADWAY AND DRAINAGE EXCAVATION

2.2 Km. - - - - - Completed

Item 107: BORROW

BRIDGE: 2.1 Km. - - - - - Partial

OTHER DRAINAGE STRUCTURES:

Item 411: REINFORCED CONCRETE PIPE CULVERTS

<u>Item No.</u>	<u>Description</u>	<u>% Accomplishment</u>
411-2	0.60 M. DIA. RCP	100
411-3	0.90 M. DIA. RCP	100
411-4	1.20 M. DIA. RCP	05.41

FEEDER ROAD 202 (Pasacao-Caraban-Local Road)

ROAD:

Subgrade:

Item 105: ROADWAY AND DRAINAGE EXCAVATION

4.1 Km. - - - - - Completed

Item 107: BORROW

4.5 Km. - - - - - Completed

Subbase:

Item 108: AGGREGATE SUBBASE

6 Km. - - - - - Partial

BRIDGES: Timber Trestle (#1, #2, #3, #4)

Substructures:

8 test piles were driven for bridges #1, #2, #3 and #4, 2 each.

10 bearing piles were already cast for bridge #1.

5 bearing piles were already driven at bridge #2.

Remaining five (5) concrete bearing piles were already cast intended for bridge #2.

Remaining one (1) test pile was already cast intended for bridge #4.

Item 413: REINFORCED CONCRETE PIPE CULVERTS

<u>Item No.</u>	<u>Description</u>	<u>% Accomplishment</u>
413-2	0.60 M.DIA. RCP	95.45
413-3	0.90 M.DIA. RCP	100.00
413-4	1.20 M.DIA. RCP	89.04

FLEEDER ROAD 203 (Panacio Port Road)

Road:

Subgrade:

Item 105: ROADWAY AND DRAINAGE EXCAVATION

0.80 Km. - - - - - Partial

Item 107: BORROW

0.40 Km. - - - - - Completed

0.60 Km. - - - - - Partial

OTHER DRAINAGE STRUCTURES:

Item 413: REINFORCED CONCRETE PIPE CULVERTS

<u>Item No.</u>	<u>Description</u>	<u>% Accomplishment</u>
413-3	0.90 M. DIA. RCP	93.82

VI. MATERIALS TESTING AND CONTROL (Secondary and Feeder Roads)

The laboratory and field tests for materials quality control undertaken by the Contractor during the period under the supervision of the A & E Materials Engineer are as follows:

Grading Analysis - - - - -	19
Plastic and Liquid Limit Determination - - - - -	19
Laboratory Compaction Tests - - - - -	7
Field Density Tests - - - - -	-84
Concrete Cylinder Samples Taken - - - - -	7 sets

COMMENTS AND RECOMMENDATIONS

The negative slippage of the Contractor as of this period is 29.6%. This seemed unreasonably high due to Contractor's reluctance to start concrete paving work (Item 316) which have been scheduled as early as September, 1979. The said item will not be undertaken by the Contractor unless unit cost is adjusted to meet local/<sup>current</sup> prices of materials involved. If Item 316 will be deleted or terminated and considering the requested time extension due to bad weather, the slippage will be reduced to as much as below 1/2 (-) only.

At present, the A & E is studying the possibility of changing the level of improvement of the Secondary Road to a lower one in lieu of Item 316 to finish the project within its financial limitation.

In order to catch up with the schedule, the Contractor was given the following advices:

1. Improve his maintenance and repair operation.
2. Initiate the follow-up of the request for time extension and change order.
3. Do not ignore but implement the instructions stated in the memoranda issued to them.
4. Resume activities along the secondary road particularly in the first three kilometer.
5. Augment the units of his compaction and hauling equipment.
6. Procure sufficient coarse and fine aggregates for casting of bearing piles.

PROJECT: DANA O - PASACAO ROAD  
 Sub-project No. 2

WEATHER REPORT

<u>DATE - 1980</u>	<u>WEATHER CONDITION</u>	<u>REMARKS</u>	<u>TIME EXTENSION RECOMMENDED</u>
February 26	Sunny	Workable	None
27	Sunny	<del>-do-</del>	<del>-do-</del>
28	Sunny	<del>-do-</del>	<del>-do-</del>
29	Sunny	<del>-do-</del>	<del>-do-</del>
March 1	Fair to sunny	<del>-do-</del>	<del>-do-</del>
2	Sunny	<del>-do-</del>	<del>-do-</del>
3	Sunny	<del>-do-</del>	<del>-do-</del>
4	Sunny	<del>-do-</del>	<del>-do-</del>
5	Sunny	<del>-do-</del>	<del>-do-</del>
6	Sunny	<del>-do-</del>	<del>-do-</del>
7	Sunny	<del>-do-</del>	<del>-do-</del>
8	Sunny	<del>-do-</del>	<del>-do-</del>
9	Sunny to fair	<del>-do-</del>	<del>-do-</del>
10	Sunny	<del>-do-</del>	<del>-do-</del>
11	Fair to sunny	<del>-do-</del>	<del>-do-</del>
12	Sunny to fair	<del>-do-</del>	<del>-do-</del>
13	Sunny to fair	<del>-do-</del>	<del>-do-</del>
14	Sunny to fair	<del>-do-</del>	<del>-do-</del>
15	Sunny	<del>-do-</del>	<del>-do-</del>
16	Sunny to fair	<del>-do-</del>	<del>-do-</del>
17	Sunny	<del>-do-</del>	<del>-do-</del>
18	Fair	<del>-do-</del>	<del>-do-</del>
19	Sunny	<del>-do-</del>	<del>-do-</del>
20	Sunny	<del>-do-</del>	<del>-do-</del>
21	Sunny to fair	<del>-do-</del>	<del>-do-</del>
22	Cloudy to fair	<del>-do-</del>	<del>-do-</del>
23	Cloudy to rainy	<del>-do-</del>	<del>-do-</del>
24	Rainy the whole day	Unworkable	1 day
25	Cloudy to rainy in the afternoon	<del>-do-</del>	1 day
TIME EXTENSION RECOMMENDED PREVIOUSLY			- 30 DAYS
TIME EXTENSION RECOMMENDED THIS MONTH			- 2 DAYS
GRAND TOTAL TO DATE			- 32 DAYS

COT CONSTRUCTION & EQUIPMENT CORPORATION  
 DANA O - PASACAO ROAD  
 Odicon, Pasacao, Cam. Sur

LIST OF PERSONNEL  
 (As of March 25, 1980)

<u>N A M E</u>	<u>D E S I G N A T I O N</u>
1. CONRADO S.P. GONZALES	Project Manager
2. ALEXANDER S. GUZMAN	Asst. Project Manager (Operation)
3. BENJAMIN O. SY	Asst. Project Manager (Administration)
4. MANUEL ALETA	Project Engineer
5. NESTOR S. BALLANO	Geodetic Engineer
6. PIO F. GACER	Materials Engineer
7. CESAR O. HERNANDEZ	C E Aide
8. RAMON G. HIPOLITO	Timekeeper
9. JOSE AGUILAR	Purchaser/Warehouseman
10. PORFIRIO DACIAN	Asst. Warehouseman
11. MAX RODLEADO, JR.	Draftsman
12. JOSE R. BRION	Laboratory Aide
13. GIL MUÑOZ	Laboratory Aide
14. NANCY A. LARACAS	Clerk/typist
15. LORNA G. BERNAL	Clerk/typist
16. ALEJANDRO MANCENIDO	Materials Checker
17. PABLO PEREZ	Foreman
18. POLICARPIO PALISOC	Foreman
19. NICHANOR MEDINA	Foreman
20. RODOLFO BUAN	Foreman
21. OPERATORS - Fifteen (15)	
22. DRIVERS - Twelve (12)	
23. MECHANICS - Four (4)	
24. ELECTRICIAN- One (1)	
25. WELDER - One (1)	
26. Survey Aides- Five (5)	
27. LABORERS - Sixty (60)	

SUBMITTED BY:

(SGD.) CONRADO S.P. GONZALES  
 Project Manager

CBT CONSTRUCTION & EQUIPMENT CORPORATION  
DANAOG - PASACAO ROAD  
Odicon, Pasacao, Cam. Sur

LIST OF EQUIPMENT  
(As of March 25, 1980)

<u>NAME OF EQUIPMENT</u>	<u>SERIAL NUMBER</u>	<u>DATE OF ARRIVAL</u>
1. Komatsu Bulldozer	NH - 220-0468N9331	May 15, 1979
2. Komatsu Bulldozer	NH - 220-0770N27251	June 9, 1980
3. D7 3 - T Bulldozer	AK - 3 - 948	July 2, 1979
4. D6 Bulldozer	AK - 1 - 718	June 23, 1979
5. Dump truck #1	70 40 40 56	May 18, 1979
6. Dump Truck #3	69 71 80 59	June 5, 1979
7. Dump Truck #6	E 120 - 209584	July 18, 1979
8. Dump Truck #7	DH -100-441766	August 20, 1979
9. Dump Truck #8	DH - 100-403857	August 30, 1979
10. Dump Truck	TD - 40 - 134754	June 30, 1979
11. Dump Truck	TD - 50 - 1339730	June 30, 1979
12. Dump Truck	70-1369-49	June 23, 1979
13. Dump Truck #4 (Water truck)	DH 100-409163	July 15, 1979
14. Service Truck	TD 50 - 1228305	September 20, 1979
15. Service Truck	TD 50-1235025	September 30, 1979
16. TCM-75 Payloader	DA 640-524768	May 25, 1980
17. JCM - Komatsu Payloader	VH -65G-0728	July 9, 1979
18. Road Roller (Sakai)	DM - 120- 515855	September 26, 1979
19. Road Roller (Watanabe)	413250	September 14, 1979
20. Pneumatic Roller	DA - 120 - 517971	July 13, 1979
21. Road Grader (Galleon)	4A - 33306	July 17, 1979
22. Road Grader (galleon)	4A - 3320-471R053	August 10, 1979
23. Road Grader (Mitsubishi)	127539	October 12, 1979
24. Toyota Tamaraw	S. K - 714741	June 1, 1979
25. Toyota Land Cruiser	366346	May 18, 1979
26. Crane 35 tons	30007-60100	July 26, 1979
27. Pile Hammer (Mitsubishi 23)	-	August 15, 1979
28. Air Compressor	DA 220 - 519254	June 27, 1979
29. Welding Machine	J - 806279	June 14, 1979
30. One-bagger Mixer	-	June 5, 1979
31. One-bagger Mixer (Two Units)	-	August 2, 1979
32. Two-bagger Mixer (Two Units)	-	September 5, 1979
33. Concrete Vibrator	-	June 15, 1979
34. Concrete Vibrator	-	September 30, 1979
35. Sheep-foot Roller	-	June 14, 1979
36. Water Pump	P - 40	July 18, 1979
37. Water Pump	P - 40	September 27, 1979
38. Road Roller	DA -220-503436	November 8, 1979

SUBMITTED BY:

(SGD.) CONRADO S.P. GUIZALES  
Project Manager

ITEM NO.	DESCRIPTION	ESTIMATED % WORK			
		SCHEDULED	ACCOMPLISHED	PERCENT	
			ITEM	PERCENT	
1.60-1	FORCE ACCOUNT WORK	0.3438	25	0.08	
1.60.2	PROVIDE AND MAINTAIN LABORATORY AND OFFICE FOR BUSINESS	0.3653	50	0.18	
1.60.3	PROVIDE ONE (1) UNIT UTILITY VEHICLE	0.2578	100	0.25	
1.60.5	LABORATORY AND OFFICE EQUIPMENT	0.6273	50	0.31	
100	CLEARING AND GRUBBING	SECONDARY ROAD	0.0244	100	0.02
		FEDERAL ROAD 201	0.0132	100	0.01
		FEDERAL ROAD 202	0.0584	100	0.06
103-1	REMOVAL OF BRIDGES	FEDERAL ROAD 202	0.0854		
103-2	REMOVAL OF CULVERTS (RCP)	SECONDARY ROAD	9.2599	88.31	79
		FEDERAL ROAD 201	0.0859	100	0.08
		FEDERAL ROAD 202	0.1089	100	0.11
		FEDERAL ROAD 203	0.0385	100	0.04
105	ROADWAY AND DRAINAGE EXCAVATION	SECONDARY ROAD	1.2845	54.50	68
		FEDERAL ROAD 201	1.2135	74.30	91
		FEDERAL ROAD 202	1.5979	72.50	100
		FEDERAL ROAD 203	0.1925	25.31	69
106-1	EXCAVATION FOR STRUCTURES (DRAINAGE)	SECONDARY ROAD	0.3810	55.41	20
		FEDERAL ROAD 201	0.1075	18.05	0.08
		FEDERAL ROAD 202	0.1966	71.23	15
		FEDERAL ROAD 203	0.0294	10.03	0.02
106-2	EXCAVATION FOR STRUCTURES (BRIDGE) BELOW D.W.P. 82.	0.0167			
107	BORROW	SECONDARY ROAD	7.5295	64.09	48
		FEDERAL ROAD 201	2.1048	10.05	1.85
		FEDERAL ROAD 202	4.6658	44.50	4.10
		FEDERAL ROAD 203	0.9245	44.25	4.0
108	AGGREGATE SUBBASE	SECONDARY ROAD	6.9937	17.24	19
		FEDERAL ROAD 201	2.5588		
		FEDERAL ROAD 202	4.1236	65.12	2.0

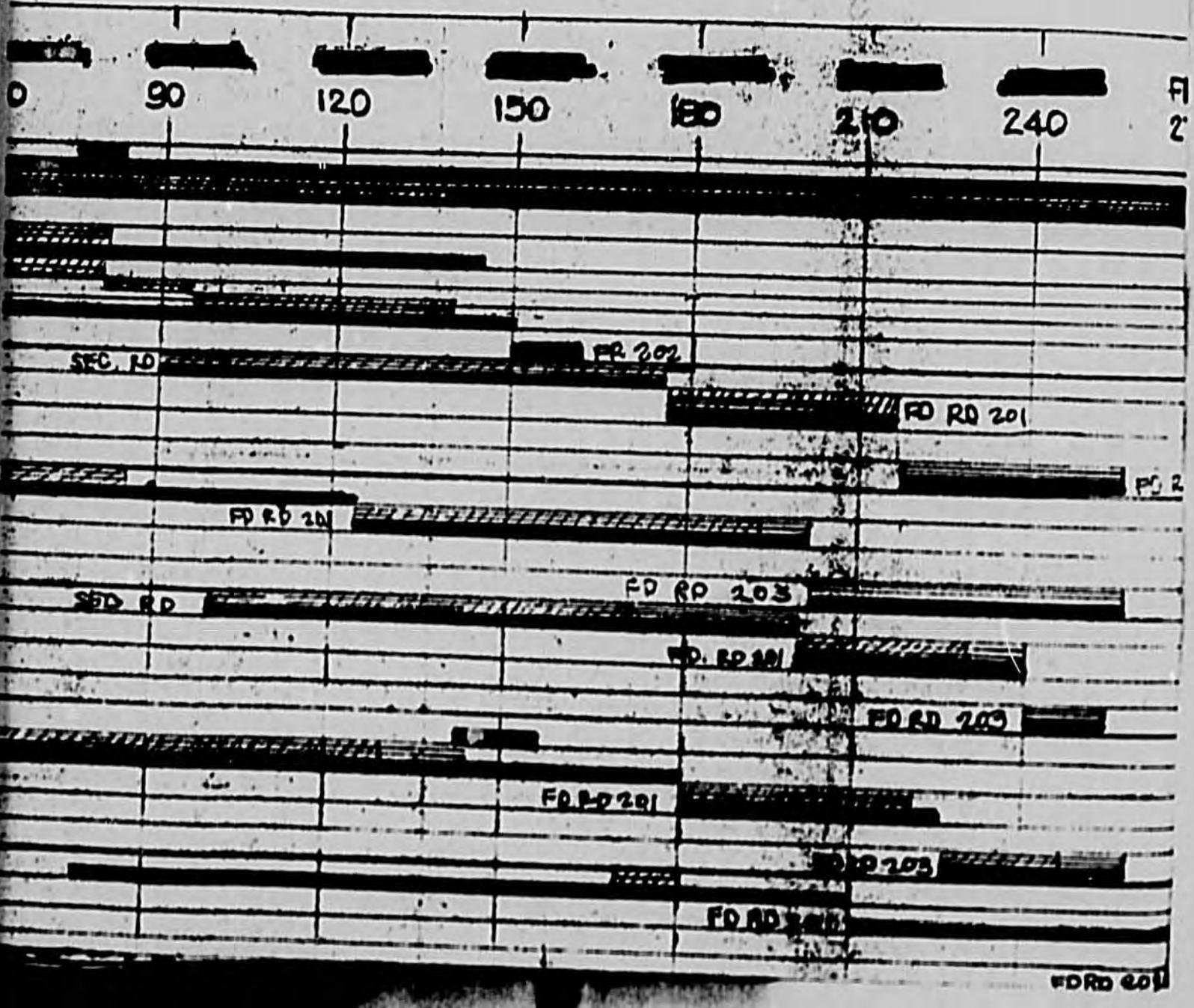
MAY 18, 1978  
 START OF CONTRACT TIME

QUANTITY	UNIT COST	AMOUNT		30	60
		PER BID SCHEDULE	ADJUSTED		
	LUMP SUM	40,000.00			
17 MOS.	2,500.00	42,500.00			
	LUMP SUM	30,000.00			
	LUMP SUM	72,985.00			
3.00 HA.		10,000.00			
2.00 HA.	4,000.00	1,600.00			
1.00 HA.		6,800.00			
2 EA.	5,000.00	10,000.00			
31 EA.	975.00	30,225.00			
8 EA.	2,000.00	16,000.00			
15 EA.	975.00	14,625.00			
4 EA.	975.00	3,900.00			
15,680 CU.M.	8.00	149,440.00		SEC. RD.	
15,600 CU.M.	8.00	141,800.00			
15,240 CU.M.	8.00	185,920.00			
2,800 CU.M.	8.00	22,400.00			
5,100 CU.M.	14.30	44,330.00			
875 CU.M.	14.30	12,512.50			
1,600 CU.M.	14.30	22,880.00			
240 CU.M.	14.30	3,432.00			
50 CU.M.	65.00	1,950.00	3,250.00		
10,818 CU.M.	23.80	256,078.02		SEC RD	
10,290 CU.M.	23.80	244,908.00			
22,810 CU.M.	23.80	542,878.00			
4,520 CU.M.	23.80	107,576.00			
22,610 CU.M.	36.00	813,960.00			
8,270 CU.M.	36.00	297,720.00			
13,240 CU.M.	36.00	478,640.00			

# BAR SCHEDULE OF WORK

## DANA O - PASACAO ROAD

- FR 201: ITOLAN - BAHAY - COCO
- FR 202: PASACAO - CARANAN - MACAD
- FR 203: PASACAO - PORT ROAD



LEGEND:

-  PREVIOUS ACC.
-  PROGRESS THIS REPORT
-  SCHEDULED WORK

F MAR 26 1960  
270 300

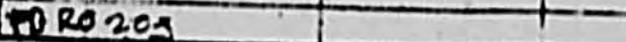
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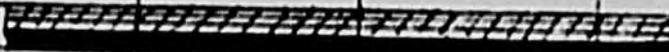
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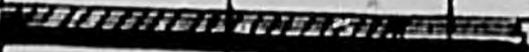
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420

 FR 203

 FD RO 205

 FD RO

 FD RO 202







108	AGGREGATE SUBBASE	FEEDER ROAD 201	0.5757	13.29
		FEEDER ROAD 201	2.5588	
		FEEDER ROAD 202	4.1336	65.16
		FEEDER ROAD 203	0.9936	27.85
		SECUNDARY ROAD	0.1889	10.85
		FEEDER ROAD 201	0.0402	77.93
		FEEDER ROAD 202	0.0711	93.40
		FEEDER ROAD 203	0.0125	91.87
		SECUNDARY ROAD	0.0767	
110	FOUNDATION FILL		59.8745	
111	OVERHAUL (SOIL-FILLING)		1.4459	
315-1	PORTLAND CEMENT CONCRETE PAVEMENT		1.8066	30.96
401	PRECAST CONCRETE SLABS		1.2957	30.60
402-1.7	CONCRETE CLASS A		3.5229	53.56
	(FOR HEADWALLS AND MISCELLANEOUS STRUCTURES)		1.2917	
			2.1529	34.39
405	CONCRETE CLASS A		0.1455	
405-1	CONCRETE CLASS A		1.2208	
406	REINFORCING STEEL		1.7448	40.17
	(BRIDGES AND MISCELLANEOUS STRUCTURES)		0.9270	
			0.7629	
			0.0059	
407	STRUCTURAL STEEL (GIRDS)		0.0825	
409-2.1	TIMBER SHEET PILES (1/4" X 12" X 10")		0.2702	
412	STONE MASONRY		0.1256	
413-2	0.60 M. DIA. REINFORCED CONCRETE PIPES		0.3531	9.71
			0.0809	10
			0.4046	25.21
413-3	0.90 M. DIA. REINFORCED CONCRETE PIPES		0.8209	77.11
			0.3094	
			0.3712	10
			0.3341	15.17
413-4	1.20 M. DIA. REINFORCED CONCRETE PIPES		1.0523	57.90
			0.5176	
			0.4831	27.78
500-1	8-1/2" X 12" REINFORCED CONCRETE		1.4758	
500-2	8-1/2" X 12" REINFORCED CONCRETE		0.3480	
			0.1057	41.84
			0.0775	
			0.0825	52.4
			0.0165	
TOTALS			100.00	57.8

THIRTY (30) DAY  
COMMULATIV



FD RD 201

FD RD 203

SEC RD

FD RD 201

FD RD 201

SEC RD

FD RD 201

FD RD 201

SEC RD

FD RD 201

SEC RD

FD RD 201

FD RD 201

FD RD 201

FD RD 203

FD RD 201

FD RD 201

FD RD

409.07	564,654.24	994,884.46	1,036,362.23	1,000,397.80	996,736.61	946,669.80	730.
066.58	1,168,725.62	2,154,580.08	3,190,942.31	4,191,203.11	5,188,016.72	6,134,680.51	6,866.

FD RD 202

FD RD 202

FD RD 202

FD RD 202

FD RD 203

FD RD 202

FD RD 20

FD RD 202

FD RD 203

FD RD 202

130,650.54	518,822.45	632,288.57	829,499.26	924,918.88	833,72.68	582,904.36	4
865,931.06	7,984,169.51	8,016,542.08	8,889,885.34	9,764,804.22	10,604,525.90	11,187,430.26	11

FD RD 202

10M

FD 202

9M

BR #1, #4

FD 202 BR #1, #4

FD RD 202 BR #1, #4

6M

FD RD 202

4M

FD RD 202

3M

1M

0M

839,121.68	582,904.36	447,698.42
1,604,525.90	11,187,430.26	11,635,128.68

ITEM NO.	DESCRIPTION	BID QUANTITY	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT		
					Percentage Based on bid quantities	Quantity/Volume	Value
<b>GENERAL</b>							
1.60.1	FORCE ACCOUNT WORK (REPAIR AND UNDERPINNING OF ODION BAILEY BRIDGE AND MAINTENANCE OF DETOUR ROAD)	-	Lump Sum	40,000.00	25	10,000	10,000.00
1.60.2	PROVIDE AND MAINTAIN LABORATORY AND OFFICE FOR ENGINEER	17 MOS.	2,500.00/Mo.	42,500.00	55	9.5	23,750.00
1.60.3	PROVIDE ONE UNIT UTILITY VEHICLE FOR ENGINEER	-	Lump Sum	30,000.00	100	1	30,000.00
1.60.5	LABORATORY AND OFFICE EQUIPMENT FOR ENGINEER	-	Lump Sum	72,985.00	50	50	36,492.50
<b>ROADS, BRIDGES AND DRAINAGE STRUCTURES (Secondary Road)</b>							
100	CLEARING AND GRUBBING	2.50 HA.	4,000.00/HA.	10,000.00	100	2.50	10,000.00
103-2	REMOVAL OF CULVERTS (REINFORCED CONCRETE PIPE CULVERTS)	31	975.00 EA.	30,225.00	88.71	5(50%)	2,437.50
105	ROADWAY AND DRAINAGE EXCAVATION	18,600 CU.M.	8.00/CU.M.	149,540.00	54.46	25(100%)	24,375.00
106-1	EXCAVATION FOR STRUCTURES (DRAINAGE)	3,100 CU.M.	14.30/CU.M.	44,330.00	53.41	11,108.45	88,867.60
106-2	EXCAVATION FOR STRUCTURE ( BRIDGE BELOW ORDINARY WATER LEVEL)	50 CU.M.	65.00/CU.M.	3,250.00	0	0	0
107	BORROW	36,810 CU.M.	23.80/CU.M.	876,078.00	66.79	24,585.86	585,143.52
108	AGGREGATE SUBBASE	22,610 CU.M.	36.00/CU.M.	813,960.00	13.29	3,000	108,000.00
110	FOUNDATION FILL	610 CU.M.	36.00/CU.M.	21,960.00	90.83	554.10	19,947.60
111	OVERHAUL (300 M FREEHAUL)	7,460 Sta.M.	1.20/STA.M.	8,952.00	0	0	0
316-1	PORTLAND CEMENT CONCRETE PAVEMENT 0.20 M. (8" THICK)	56,280 SQ.M.	78.30/SQ.M.	4,406,724.00	0	0	0
402-2.5	PRECAST CONCRETE PILES (ODION BRIDGE)	334 L.M.	490.00/L.M.	163,660.00	90.86	273 (100%)	148,715.00
402-2.5A	CONCRETE TEST PILE (FURNISH & DRIVE)	22	10,500.00 EA.	21,000.00	100	61 (50%)	21,000.00
403	CONCRETE RAILINGS	56 L.M.	182.50/L.M.	10,250.00	0	(100%)	0
405	CONCRETE CLASS "A" (FOR HEADWALLS & MISC. STRUCTURES)	470 CU.M.	835.00/CU.M.	392,000.00	33.56	0	0
405-1	CONCRETE CLASS "A" (ODION BRIDGE)	170 CU.M.	835.00/CU.M.	141,958.00	0	157.53	131,723.76
406	REINFORCING STEEL (BRIDGES AND MISC. STRUCTURES)	50,775 KGS.	4.00/KGS.	303,020.00	49.28	0	0
						33,316.00(50)	100,059.08
						8,356.77(100)	

ITEMIZED COMPUTED ACCOMPLISHMENT  
As of March 25, 1980

DAMAO-PASACAO ROAD (Sub-project 2)

Sheet 2 of 3

ITEM NO.	DESCRIPTION	BID QUANTITY	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT		
					Percentage based on bid quantities	Quantity/Volume	Value
407	STRUCTURAL STEEL (ODION BRIDGE)	640 KGS.	P 15.00/KGS.	P 9,600.00	0	0	0
409-2.1	TIMBER SHEET PILE (T & G) 4" x 12" x 10	142 L.M.	21.50/L.M.	31,000.00	0	0	0
412	STONE MASONRY	56 CU.M.	757.00/CU.M.	14,392.00	0	0	0
413-2	0.60 M. DIA. REINFORCED CONCRETE PIPE	192 L.M.	214.00/L.M.	41,088.00	93.23	179 L.M.	38,306.00
413-3	0.90 M. DIA. REINFORCED CONCRETE PIPE	199 L.M.	480.00/L.M.	95,520.00	77.99	154 L.M.	73,920.00
413-4	1.20 M. DIA. REINFORCED CONCRETE PIPE	159 L.M.	770.00/L.M.	122,430.00	84.90	135 L.M.	103,950.00
500-1	RIPRAP AND GROUTED (RIVERBANK PROTECTION)	954 CU.M.	180.00/CU.M.	171,720.00	0	0	0
500-2	RIPRAP AND GROUTED (CANAL PROTECTION)	225 CU.M.	180.00/CU.M.	40,500.00	0	0	0
510	RIGHT-OF-WAY MARKERS	246 EA.	50.00 EA.	12,300.00	94.72	220 (100%) 26 (50%)	11,650.00
<b>ROADS, BRIDGES, AND DRAINAGE STRUCTURES</b>							
<b>(Feeder Road 201. Bahay-Itolan Coco)</b>							
100	CLEARING AND GRUBBING	0.4 HA.	4,000.00/HA.	1,600.00	100%	0.40 HA.	1,600.00
103-2	REMOVAL OF CULVERTS	5	2,000.00 EA.	10,000.00	100	5 (100%)	10,000.00
105	ROADWAY AND DRAINAGE EXCAVATION	17,650 CU.M.	8.00/CU.M.	141,200.00	79.32	14,000 CU.M.	112,000.00
106	EXCAVATION FOR STRUCTURE (DRAINAGE)	875 CU.M.	15.30/CU.M.	12,512.50	90.05	792	11,325.60
107	BORROW	10,290 CU.M.	23.80/CU.M.	244,902.00	65.55	8,200	195,160.00
108	AGGREGATE SUBBASE CLASS "A"	8,270 CU.M.	36.00/CU.M.	297,720.00	0	0	0
110	FOUNDATION FILL	130 CU.M.	36.00/CU.M.	4,680.00	77.48	100.73	3,626.20
405	CONCRETE CLASS "A" (FOR HEADWALLS AND MISC. STRUCTURES)	130 CU.M.	835.00/CU.M.	150,300.00	0	0	0
406	REINFORCING STEEL	15,330 KG.	4.00/KG.	61,320.00	0	0	0
413-2	0.60 M. DIA. REINFORCED CONCRETE PIPE	44 L.M.	214.00/L.M.	9,416.00	100	44 L.M.	9,416.00
413-3	0.90 M. DIA. REINFORCED CONCRETE PIPE	75 L.M.	480.00/L.M.	36,000.00	100	75 L.M.	36,000.00
413-4	1.20 M. DIA. REINFORCED CONCRETE PIPE	48 L.M.	770.00/L.M.	36,960.00	85.41	41	31,570.00
510	RIGHT - OF - WAY MARKERS	180	50.00 EA.	9,000.00	23.88	86 (50%)	2,150.00
<b>ROADS, BRIDGES AND DRAINAGE STRUCTURES</b>							
<b>(feeder Road 202 Pasacao-Caranan-Madad)</b>							
100	CLEARING AND GRUBBING	1.72 HA.	4,000.00/HA.	6,880.00	100	1.72 HA.	6,880.00
103-2	REMOVAL OF CULVERTS	2	5,000.00 EA.	10,000.00	0	0	0
103-2	REMOVAL OF CULVERTS	13	975.00 EA.	12,675.00	100	13	12,675.00
105-1	ROADWAY AND DRAINAGE EXCAVATION	23,240 CU.M.	8.00/CU.M.	185,920.00	76.55	17,790.80	142,326.40
106	EXCAVATION FOR STRUCTURES	1,600 CU.M.	14.30/CU.M.	22,880.00	81.27	1,300.43	18,596.15
107	BORROW	22,810 CU.M.	23.80/CU.M.	542,872.00	88.5	20,187.63 CU.M.	480,465.59

ITEM NO.	DESCRIPTION	BID QUANTITY	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT			
					PERCENTAGE BASED ON BID QUANTITIES	QUANTITY/VOLUME	VALUE	
108	AGGREGATE SUBBASE CLASS "A"	13,260 CU.M. P	36.00/CU.M. P	480,960.00	65.12	8,700 CU.M. P	313,200.00	
110	FOUNDATION FILL	230 CU.M.	36.00/CU.M.	8,280.00	93.45	214.96	7,738.56	
401	TIMBER (DETOUR) TRESTLE, SUPERSTRUCTURE ONLY ON CONCRETE PILE BENTS	14 SPANS	12,000.00/SPAN	168,000.00	0	0	0	
402-2.5	PRECAST CONCRETE PILE	450 L.M.	490.00/L.M.	220,500.00	30	150 (50%)	66,150.00	
402-2.5A	CONCRETE TEST PILE (FURNISH & DRIVE)	9	10,500.00 EA.	94,500.00	88.88	8 (100%)	84,000.00	
405	CONCRETE CLASS "A" (FOR HEADWALLS AND MISC. STRUCTURES)	300 CU.M.	835.00/CU.M.	250,500.00	44.39	133.173	111,199.46	
406	REINFORCING STEEL	22,194 KG.	4.00/KG.	88,776.00	62.02	8,923.9 (100%)	35,695.60*	
413-2	0.60 M. DIA. REINFORCED CONCRETE PIPE	220 L.M.	214.00/L.M.	47,080.00	95.45	9,685.81 (50%)	19,371.62**	
413-3	0.90 M. DIA. REINFORCED CONCRETE PIPE	90 L.M.	480.00/L.M.	43,200.00	100	210 L.M.	44,940.00	
413-4	1.20 M. DIA. REINFORCED CONCRETE PIPE	73 L.M.	770.00/L.M.	56,210.00	89.04	90 L.M.	43,200.00	
510	RIGHT-OF-WAY MARKERS	200	50.00 EA.	10,000.00		65	50,050.00	
						120 (100%)	7,475.00	
						59 (50%)		
<b>ROADS, BRIDGES AND DRAINAGE STRUCTURES</b>								
<b>(Feeder Road 203, PASIGAO PORT ROAD)</b>								
103-2	REMOVAL OF CULVERTS	4	975.00 EA.	3,900.00	100	4 (100%)	3,900.00	
105	ROADWAY AND DRAINAGE EXCAVATION	2,800 CU.M.	8.00/CU.M.	22,400.00	35.71	1,000	8,000.00	
106	EXCAVATION FOR STRUCTURES	240 CU.M.	14.30/CU.M.	3,432.00	94.37	226.50	3,238.95	
107	BORROW	4,520 CU.M.	23.80/CU.M.	187,576.00	44.25	2,000	47,600.00	
108	AGGREGATE SUBBASE CLASS "A"	3,050 CU.M.	36.00/CU.M.	109,800.00	39.34	1,200	43,200.00	
110	FOUNDATION FILL	40 CU.M.	36.00/CU.M.	1,440.00	91.87	36.75	1,323.00	
405	CONCRETE CLASS "A" (FOR HEADWALLS)	20 CU.M.	835.00/CU.M.	16,700.00	0	0	0	
406	REINFORCING STEEL	115 KG.	4.00/KG.	460.00	0	0	0	
413-3	0.90 M. DIA. REINFORCED CONCRETE PIPE	81 L.M.	480.00/L.M.	38,880.00	93.82	76	36,480.00	
510	RIGHT-OF-WAY MARKERS	38	50.00/EA.	1,900.00	0	0	0	
						TOTAL	-	3,592,568.10

LEGEND:

- \* Complete
- \*\* Partial

## A P P E N D I C E S

### APPENDIX A - MANPOWER SCHEDULE, CONSULTANT'S STAFF FOR CONSTRUCTION-SUPERVISION

- \* Sub-project 1, Segment "B"  
Libmanan Bridge-Cabusao Section
- \* Sub-project 3, Contract Package No. 1  
Calabanga-Manguiring Bridge Section
- \* Sub-project 3, Contract Package No. 3  
Seven Bridges, Calabanga-Tinambac Road
- \* Sub-project 3, Contract Package No. 2  
Manguiring Bridge-Tinambac Section
- \* Sub-project 2,  
Danao-Pasacao Road

### APPENDIX B - CERTIFICATION

# MANPOWER SCHEDULE OF CONSULTANTS' STAFF FOR CONSTRUCTION SUPERVISION

NAMES	POSITION																									MAN MONTHS
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	
O. CARAGAY	PROJECT MANAGER	[Gantt chart bars]																								23
C. MANAOIS	SR HWY. ENGR./R.E.	[Gantt chart bars]																								23
L. GOMILLA	SR BR. ENGR./R.E.	[Gantt chart bars]																								23
R. SAMONTE	SR MTL. ENGR./R.E.	[Gantt chart bars]																								23
F. DAUZ	SR. LOC ENGINEER	[Gantt chart bars]																								23
E. ROSALES	ADM. OFFICER	[Gantt chart bars]																								23
R. MILLENDEZ	BOOKKEEPER/PAYMASTER	[Gantt chart bars]																								23
D. MORESCO	MESSENGER/JANITRESS	[Gantt chart bars]																								23
D. SCARNE, C. D. DEAN J. ROSALES	SECURITY GUARD (3)	[Gantt chart bars]																								69
		SUBTOTAL																								
<b>SUBPROJECT I, SEGMENT "A" - SAN ISIDRO-LIBMANAN BRIDGE SECTION</b>																										
A. RIVERA	RESIDENT ENGINEER	SAME AS KEY STAFF																								2
A. SUDICO	MATERIALS ENGR.	[Gantt chart bars]																								13
J. VILLAR	ENGR. INSP. (HWY.)	[Gantt chart bars]																								15
R. BUEN	FLD UTILITY ENGR.	[Gantt chart bars]																								15
S. BERINGUELA	ENGR INSP. (BR.)	[Gantt chart bars]																								12
M. CANONAY	SURVEYMAN/DRAFTSMAN	[Gantt chart bars]																								15
A. MARQUEZ	CE AIDE/TECHNICIAN	[Gantt chart bars]																								14
J. ALIPORO	CLERK - TYPIST	[Gantt chart bars]																								14
Z. ESTRELLA	LABORER/SURVEY AIDE	[Gantt chart bars]																								14
		SUBTOTAL																								
<b>SUBPROJECT I, SEGMENT "B" - LIBMANAN BRIDGE - CABUSAO SECTION</b>																										
NAMES	POSITION																				MAN MONTHS					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19						
		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR						
C. MANAOIS	SR. HWY. ENGR./R.E.	SAME AS KEYSTAFF																			11					
S. FLORENCIO	MATERIALS ENGR.	[Gantt chart bars]																			15					
A. MENANCIO	ENGR. INSPECTOR	[Gantt chart bars]																			14					
M. CULANGO	FLD. UTILITY ENGR.	[Gantt chart bars]																			14					
R. BICALDO	SURVEYMAN/DRAFTSMAN	[Gantt chart bars]																			15					
C. MADAMBA	CE AIDE/TECHNICIAN	[Gantt chart bars]																			14					
D. BARTLEA	CLERK - TYPIST	[Gantt chart bars]																			14					
O. dela CRUZ	SURVEY AIDE	[Gantt chart bars]																			14					
		SUBTOTAL																								

appendix A

**MANPOWER SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVISION**

**SUBPROJECT 3, CONTRACT PACKAGE NO 1-CALABANGA-MANGUIRING BRIDGE SECTION**

NAMES	POSITION																									MAN MONTHS
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
		DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	
A DESEO	RESIDENT ENGINEER	SAME AS KEY STAFF																								9.5
J HERNANDEZ	MATERIALS ENGINEER	[Gantt chart bars]																								15
A RAMIRO	ENGR INSPECTOR (HWY)	[Gantt chart bars]																								16
F. ANCOLA	FLD UTILITY ENGR.	[Gantt chart bars]																								16
E. ORBITA	SURVEYMAN/DRAFTSMAN	[Gantt chart bars]																								17
R. CELIS	CE AIDE/TECHNICIAN	[Gantt chart bars]																								18
B. DAZAL	CLERK-TYPIST	[Gantt chart bars]																								18
M. BALAGAT	SURVEY AIDE/LABORER	[Gantt chart bars]																								18
		SUBTOTAL																								

**SUBPROJECT 3, CONTRACT PACKAGE NO.2-MANGUIRING BRIDGE-TINAMBAC SECTION**

NAMES	POSITION																									MAN MONTHS
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
		DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
L. GOMILLA	RESIDENT ENGINEER	[Gantt chart bars]																								18
A. C. SUNICO	MATERIALS ENGR.	[Gantt chart bars]																								18
S. BORJA	ENGR INSP (HWY)	[Gantt chart bars]																								16
B. dela PENA	FIELD UTILITY ENGR	[Gantt chart bars]																								16
M. CANONJO	SURVEYMAN/DRAFTSMAN	[Gantt chart bars]																								17
E. VILLENA	CLERK / TYPIST	[Gantt chart bars]																								18
S. BATALLA	CE AIDE / TECH.	[Gantt chart bars]																								18
R. MAGPANTAY	SURVEY AIDE (LABORER)	[Gantt chart bars]																								18
		SUBTOTAL																								

**SUBPROJECT 3, CONTRACT PACKAGE NO. 3 - BRIDGES, CALABANGA-TINAMBAC ROAD**

NAMES	POSITION																									MAN MONTHS
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	
L. GOMILLA	SR. BR. ENGR./RE.	[Gantt chart bars]																								5
A. C. SUNICO	MATERIALS ENGR.	[Gantt chart bars]																								0
R. MEDINA	ENGR INSP (BR)	[Gantt chart bars]																								16
E. SANTIAGO	FIELD UTILITY ENGR	[Gantt chart bars]																								16
	SURVEYMAN/DRAFTSMAN	[Gantt chart bars]																								0
	CLERK/TYPIST	[Gantt chart bars]																								0
	CE AIDE / TECH	[Gantt chart bars]																								0
	SURVEY AIDE (LABORER)	[Gantt chart bars]																								0
		SUBTOTAL																								

appendix A

MANPOWER SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVISION

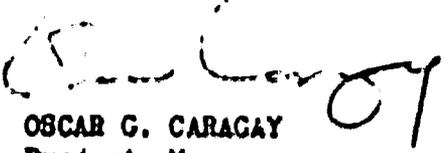
SUBPROJECT 2, DANA-O-PASACAO ROAD

NAMES	POSITION	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MAN MONTHS
		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	
R. SAMONTE	SR. MTL ENGR / RE.																								0
R. PAGKATIPUNAN	MATERIALS ENGR.																								17
A. RIVERA	ENGR INSPECTOR (HWY)																								16
A. PAYTE	ENGR INSPECTOR (BR)																								15
R. CADAG	FLD UTILITY ENGR.																								16
G. GERONA	SURVEYMAN / DFT'MAN																								16
N. TORIBIO	C E AIDE / TECH																								16
E. TAN y BOROC	CLERK / TYPIST																								16
R. ALVARAN	SURVEY AIDE (LABORER)																								16
SUBTOTAL																									

March 31, 1980

C E R T I F I C A T I O N

This is to certify that this Monthly Construction Progress Report submitted to the Ministry of Public Highways in compliance with paragraph 3.02, article III of the contract for Engineering Services are the actual accomplishment of the respective contractors and other information included thereat are true and correct.

  
OSCAR G. CARAGAY  
Project Manager