AD-A01-582

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Sub-Project No. 10

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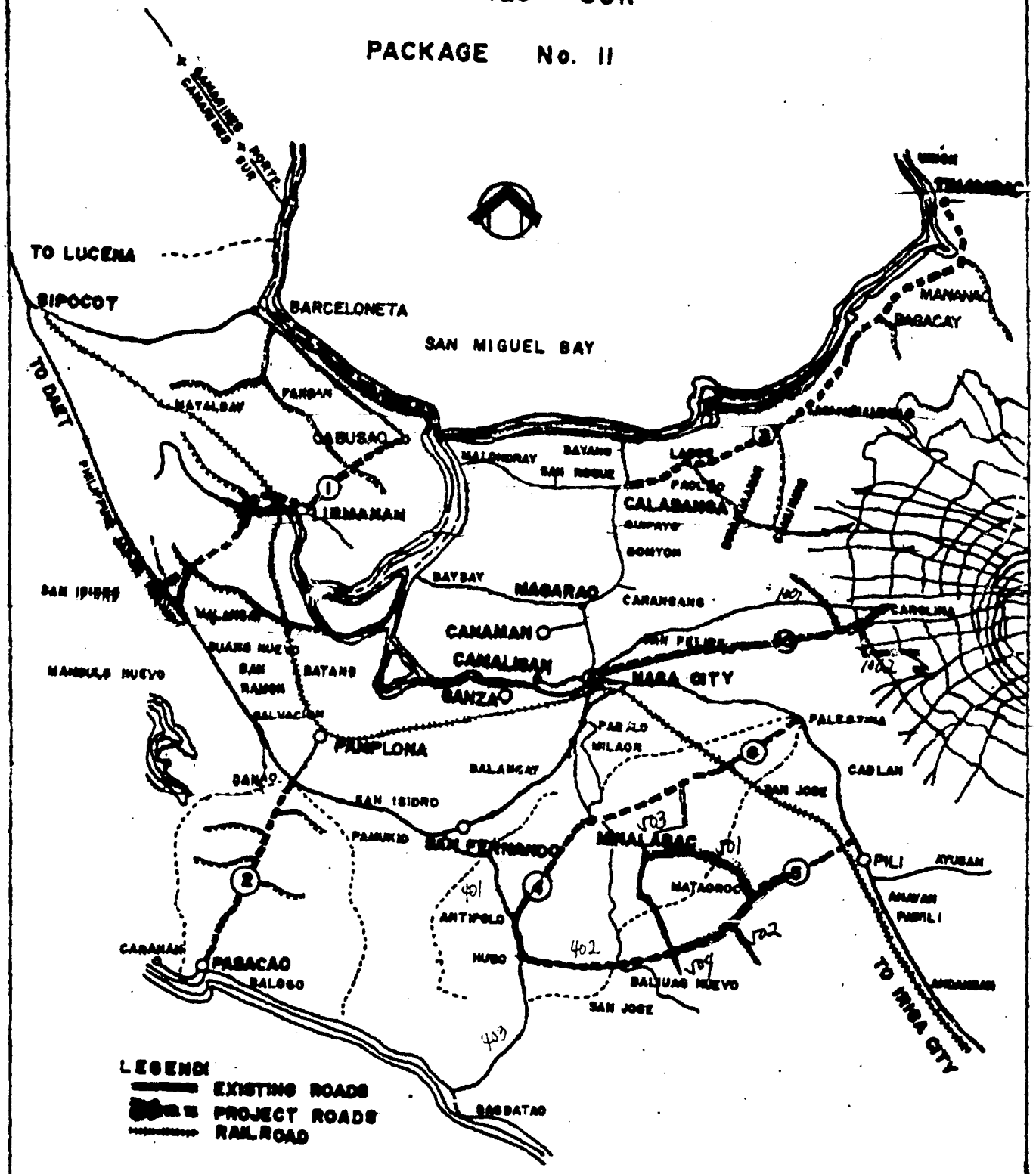
FIGURE 1

BICOL RIVER BASIN DEVELOPMENT PROJECT

SECONDARY AND FEEDER ROADS
CAMARINES SUR

PACKAGE No. II



LOCATION PLAN

Bicol River Basin Development Project
Secondary and Feeder Roads

PACKAGE II

Naga-Carolina Road Project
Sub-Project No. 10

Monthly Construction Report
No. 16

October, 1979

Prepared by:

LUCIO D. MAYOR
Sr. Hwy. Engr./Res.Engr.

Submitted by:

AMADO E. BANDELARIA
Deputy Project Manager

PROGRESS REPORT NO. 16

PROJECT: NAGA-CAROLINA ROAD PROJECT
SUB-PROJECT NO. 10

1. GENERAL

The contractor resumed his asphalt operations on the secondary road at every fair weather day of the month, but on a limited phase due to lack of aggregates. His rock crushing plant, although now functioning smoothly, could not produce the required volume needed for the paving because of insufficient raw materials.

2. PROGRESS

Progress of the works this period came mostly from the asphalt paving and bridge structures. The overall progress is 89.578% as of today while time elapsed, including extensions is 83.75%.

I. GENERAL (Secondary and Feeder Road)

The low productivity of aggregates from the contractor's constructional plants resulted in his failure to catch up on his schedule. However, the two bridges on the secondary road and one at Feeder Road No. 1002 are complete.

The headwalls and wingwalls for RCBC's are complete while those of the RCP's will take another week of the next period.

II.a ROADS, BRIDGES AND STRUCTURES (Secondary)

Earthworks

Embankment approaches to bridges are now going on.

Surfacing

Bituminous Surface Treatment are going on with about half already accomplished, but the contractor must exert more effort in order not to slip on his program.

Structures

The two bridges (Balatas and Cararayan) are now complete.

Drainage and Erosion Works

Although this item is complete, repairs and additional work on grouted riprap and hand-laid rock embankment must still be done.

Materials Test and Control

Results of the Field Density and Compaction Tests conducted along Secondary Road indicated below:

Item 200

Sta. 8 + 550	-	99.5%
Sta. 8 + 730	-	101 %
Sta. 8 + 970	-	103 %
Sta. 9 + 150	-	99.9%
Sta. 9 + 340	-	100 %
Sta. 9 + 700	-	102 %
Sta. 9 + 850	-	110 %

More compaction is needed to unsatisfactory result. Other test conducted are also tabulated hereunder.

Date	Location of Structures	Results after 30 days	REMARKS
7-28-78	Reinforced Conc. pipes	3462	Satisfactory
6-22-78	-do-	3021	-do-
7-21-78	-do-	3341	-do-
7-25-78	-do-	3161	-do-
7-16-78	-do-	3080	-do-
7-17-78	-do-	3222	-do-
7-24-78	-do-	2962	Failure
9-4-78	-do-	3407	Satisfactory
9-7-84	-do-	2898	Failure
8-19-78	-do-	3236	Satisfactory
7-21-78	-do-	3241	-do-
9-13-78	Concrete Test Pile	3011	Passed
9-13-78	-do-	3133	-do-
9-13-78	-do-	2746	Failure
9-14-78	-do-	2831	-do-
9-14-78	-do-	3260	Passed
9-14-78	-do-	3006	-do-
10-24-78	Bottom Slab. RCBC	3012	Satisfactory
10-24-78	-do-	3182	-do-
10-24-78	-do-	2971	Failure
10-30-78	Side Partition, Double Barrel, RCBC	3262	Satisfactory
-do-	-do-	3072	-do-
-do-	-do-	3223	-do-
11-6-78	Top Slab, RCBC	2874	Failure
-do-	-do-	3332	Satisfactory
-do-	-do-	3029	-do-
11-17-78	Bottom Slab, RCBC	3471	Satisfactory
-do-	-do-	3436	-do-
-do-	-do-	3323	-do-
11-21-78	Sides, RCBC	3521	-do-
-do-	-do-	3036	-do-
-do-	-do-	3039	-do-
11-23-78	Top Slab, RCBC	3674	Satisfactory
-do-	-do-	3366	-do-
-do-	-do-	2714	Failure
10-14-79	.60m Ø R.C.P.	3371	Satisfactory
-do-	-do-	3442	-do-
-do-	-do-	3475	-do-
10-25-78	0.90 m Ø R.C.P.	3371	-do-
-do-	-do-	3299	-do-
-do-	-do-	3084	-do-
11-3-78	1.20 m Ø R.C.P.	3345	-do-
-do-	-do-	3351	-do-
-do-	-do-	3055	-do-

1-12-79	RCBC, Sta. 4 + 532	3076	Satisfactory
- do -	Right (bottom slab)	3001	- do -
- do -	- do	3243	- do -
1-30-79	RCBC, Sta. 4 + 532	3963	- do -
- do -	Right (Sides and Part)	3442	- do -
- do -	- do -	3568	- do -
11-28-78	.30 m. Ø RCP	3103	- do -
- do -	- do -	3147	- do -
- do -	- do -	2778	Failure
11-31-78	.60 m Ø RCP	3028	Satisfactory
- do -	- do -	3216	- do -
- do -	- do -	2985	Failure
12-19-78	.60 m. Ø RCP	3227	Satisfactory
- do -	- do -	3224	- do -
- do -	- do -	3134	- do -
12-21-78	.90 m. Ø RCP	3354	- do -
- do -	- do -	3050	- do -
- do -	- do -	2973	Failure
12-23-78	1.20 m. Ø RCP	3654	Satisfactory
- do -	- do -	3543	- do -
- do -	- do -	3691	- do -
12-26-78	1.20 m. Ø RCP	3948	- do -
- do -	- do -	3574	- do -
- do -	- do -	3152	- do -
12-29-78	1.20 m. Ø RCP	2772	- do -
- do -	- do -	3280	- do -
- do -	- do -	3619	- do -
12-5-78	.90 m. Ø RCP	3353	Satisfactory
- do -	- do -	3172	- do -
- do -	- do -	3235	- do -
12-8-78	1.20 m. Ø RCP	3007	- do -
- do -	- do -	3187	- do -
- do -	- do -	3147	- do -
12-10-78	.60 m. Ø RCP	3315	- do -
- do -	- do -	3269	- do -
- do -	- do -	2959	Failure
12-14-78	.90 m. Ø RCP	2742	- do -
- do -	- do -	3008	Satisfactory
- do -	- do -	3061	- do -
12-17-78	1.20 m. Ø RCP	3232	- do -
- do -	- do -	3134	- do -
- do -	- do -	2899	Failure

1-[illegible]-79	.60m Ø R.C.P.	3661	Satisfactory
- do -	- do -	3842	- do -
- do -	- do -	3366	- do -
1-14-79	- do -	2990	Failed
- do -	- do -	3010	Satisfactory
- do -	- do -	3162	- do -
1-21-79	- do -	3335	- do -
- do -	- do -	3478	- do -
- do -	- do -	3504	- do -
12-1-78	RCBC, Sta. 11 + 009.50	3604	-
- do -	- do -	3576	-
- do -	- do -	3317	-
12-5-78	- do -	3457	
- do -	- do -	3562	-
- do -	- do -	3155	-
2-20-79	RCBC, Sta. 11+009.50	3707	Satisfactory
- do -	- do -	3662	- do -
- do -	- do -	3442	- do -
2-21-7[illegible]	- do -	3633	- do -
- do -	- do -	3328	- do -
- do -	- do -	3012	- do -
3-6-79	RCBC, Sta. 12 + 227	2972	Failed
- do -	- do -	3246	Satisfactory
- do -	- do -	3375	- do -
3-10-79	- do -	3045	- do -
- do -	- do -	3287	- do -
- do -	- do -	3198	- do -
3-11-79	- do -	2867	Failed
- do -	- do -	2946	- do -
- do -	- do -	3275	Satisfactory
12-7-78	RCBC, Sta. 11 + 009.50	-	-
- do -	- do -	-	-
- do -	- do -	-	-
2-2-79	RCBC, Sta. 4 + 532	3045	Satisfactory
- do -	- do -	2840	Failed
- do -	- do -	3111	Satisfactory
2-4-79	- do -	3345	- do -
- do -	- do -	4000	- do -
- do -	- do -	3600	- do -
2-8-79	- do -	3344	- do -
- do -	- do -	3475	- do -
- do -	- do -	3328	- do -
2-18-79	- do -	3546	- do -
- do -	- do -	3414	- do -
- do -	- do -	3000	- do -
2-20-79	RCBC, Sta. 11 + 009.50	2747	Failed
- do -	- do -	3044	Satisfactory
- do -	- do -	3222	- do -

Additional this month:

6-19-79	Pier II Copping	3,687	Passed compressive
-do-			strength requirement
-do-			
6-29-79	Pier I Copping	2,692	Failure(Make necessary
-do-			adjustment/correction
-do-			to attain required
			compressive strength
			requirement.
7-23-79	Girders, Span 1	4,351	Passed compressive
-do-			strength requirement
-do-			
8-14-79	Slab, Span I	3,708	-do-
-do-			
-do-			
8-3-79	Girder, Span 3		
-do-	Balatas Bridge		Passed compressive
-do-	-do-	3,845	strength requirement
8-16-79	Sidewalk, Balatas		
-do-	Bridge	3,566	-do-
- do-			

SECONDARY ROADS

KIND OF TEST	MATERIAL	NO. OF TEST Prev. No.	This No.	Total	REMARKS
Grading	Borrow, Item 106	1	0	1	
Grading	Borrow, Item 107	26	0	26	Taken w/ in right-of-way
Liquid Limit	Borrow, Item 106	1	0	1	-do-
Liquid Limit	Borrow, Item 107	26	0	26	-do-
Compaction	Borrow, Item 107	22	0	22	-do-
Grading	Aggregate Sub-base Item 108	147	0	147	Yabu River, Palestina
Compaction	Borrow, Item 106	1	0	1	
Liquid Limit	Aggregate Sub-base Item 108	147	0	147	-do-
Compaction	Aggregate Sub-base Item 108	77	0	77	-do-
Grading	Item 405, (FA)	16	5	21	Representing 150 cu.m.
	Item 405, (CA)	16	5	21	-do-
Plasticity	Item 405, (CA)	4	3	7	
Design Mix	Item 405	17	3	20	-do-
Density Test Item 107		64	0	64	
Density Test Item 108		107	0	107	
Grading	Aggregate Base Course Item 110	4	0	4	San Jose River
Compaction	Aggregate Base Course Item 110	3	0	3	-do-
Liquid Limit	Aggregate Base Course Item 110	2	0	2	-do-
Grading	Item 200	80	0	80	
Liquid Limit	Item 200	54	0	54	
Compaction	Item 200	25	4	29	
Grading	Item 314	44	5	49	
Density Test	Item 200	34	7	41	

FEEDER ROADS 100 & 1002

KIND OF TEST	MATERIAL	NO. OF TEST Prev.Mo.	This Mo.	Total	REMARKS
	Feeder Rd. 1001				
Grading	Borrow, Item 107	10	0	10	Taken w/in right-of-way
Liquid Limit	Borrow, Item 107	10	0	10	- do -
Compaction	Borrow, Item 107	10	0	10	- do -
Field Density	Borrow, Item 107	50	0	50	- do -
Grading	Borrow, Item 105	18	0	18	
Liquid Limit	Borrow, Item 105	18	0	18	
Compaction	Borrow, Item 105	18	0	18	
Grading	Borrow, Item 106	1	0	1	
Liquid Limit	Borrow, Item 106	1	0	1	
Compaction	Borrow, Item 106	1	0	1	
Grading	Item 108	12	0	12	
Plasticity	Item 108	12	0	12	
Field Density	Item 108	13	0	13	
Compaction	Item 108	9	0	9	
Grading	Item 110	2	0	2	
	Feeder Rd. 1002				
Grading	Borrow, Item 107	4	0	4	Taken w/in right-of-way
Liquid Limit	Borrow, Item 107	4	0	4	- do -
Compaction	Borrow, Item 107	4	0	4	- do -
Field Density	Borrow, Item 107	14	0	14	- do -
Grading	Borrow, Item 105	10	0	10	
Liquid Limit	Borrow, Item 105	10	0	10	
Compaction	Borrow, Item 105	11	0	11	
Grading	Item 108	19	0	19	
	Item 110	2	0	2	
Plasticity	Item 108	16	0	16	
	Item 110	1	0	1	
Field Density	Item 108	16	0	16	
	Item 110	1	0	1	
Compaction	Item 108	12	0	12	
	Item 110	1	0	1	

II.b ROADS, BRIDGES AND DRAINAGE STRUCTURES
(Feeder Road 1001, San Isidro-Pacul Nursery Road)

Work on a few remaining headwalls for RCP's is still going on together with repairs for washed-out item 108.

II.c ROADS, BRIDGES AND DRAINAGE STRUCTURES

The timber Trestle Superstructure at Panicuason Bridge is complete. No activity was done for repairs of Item 108.

COMMENTS AND RECOMMENDATIONS

The accomplishment for the month did not meet the expected output inspite of the consultant's consistent advices. With a new quarry near the site of the works, the contractor is expected to double his aggregate supplies for a better progress next period.

A recommendation for improving the abutments at the Panicuason Bridge together with comparison of costs is now being prepared for submittal.

The Road Right-Of-Way problem at San Isidro on the Secondary Road continues to hamper the contractor's paving operation.

The survey for Typhoon "Pepang" Damages is now complete and shall be submitted shortly.

An additional RCP line across Feeder Road No. 1001 at Sta. 0 + 403 has been recommended for irrigation purposes in the area.

Since this sub-project is expected to be completed early next year, the consultant has started a deficiency list in order that the contractor can remedy them early and avoid delays in the turn-over.

PROJECT: NAGA-CAROLINA ROAD
SUB-PROJECT NO. 10

WEATHER REPORT

DATE-1979		WEATHER	REMARKS	TIME EXTENSION RECOMMENDED
Sept.	26	Sunny	Workable	None
	27	Sunny	Workable	None
	28	Cloudy to fair	Workable	None
	29	Cloudy with heavy rains	Unworkable	One (1) day
	30	Cloudy	Workable	None
Oct.	1	Fair (a.m.) with rains (p.m.)	Workable	None
	2	Cloudy	Workable	None
	3	Fair	Workable	None
	4	Cloudy with rains	Workable	None
	5	Rainy induced by Typhoon Uring	Unworkable	One (1) day
	6	Fair	Workable	None
	7	Fair	Workable	None
	8	Fair to cloudy	Workable	None
	9	Fair to cloudy	Workable	None
	10	Fair	Workable	None
	11	Fair	Workable	None
	12	Fair to cloudy	Workable	None
	13	Fair to cloudy	Workable	None
	14	Fair	Workable	None
	15	Fair	Workable	None
	16	Fair	Workable	None
	17	Fair	Workable	None
	18	Fair to cloudy	Workable	None
	19	Fair	Workable	None
	20	Fair	Workable	None
	21	Fair to cloudy w/ slight rains	Workable	None
	22	Cloudy w/ heavy rains	Unworkable	One (1) day
	23	Fair	Workable	None
	24	Sunny	Workable	None
	25	Sunny	Workable	None

TOTAL EXTENSION OF TIME RECOMMENDED THIS MONTH - - - - - - - 3 days
TOTAL EXTENSION OF TIME RECOMMENDED PREVIOUSLY - - - - - - - 59 days
GRAND TOTAL - - - - - - - - - - - - - 62 days

BALN CONSTRUCTION CO., INC.
Naga-Carolina Road Project
Naga City

LIST OF PERSONNEL
As of September, 1979

	NAME	POSITION	QUALIFICATION
1.	Modesto C. Buenaventura	I. TECHNICAL STAFF	
1.	Modesto C. Buenaventura	Operations Manager	Experienced
2.	Eutropio O. Doroy	Resident Engineer	Civil Engineer
3.	Perpetuo B. Avila	Mat'ls. Lab. Tech./PO	Experienced
		II. ADMINISTRATIVE STAFF	
4.	Efren B. Advincula	Administrative Officer	B S C
5.	Fatima B. Reyes	Comptroller	Experienced
6.	Gloria N. Felipe	Fld. Acctg. Officer	- do -
7.	Magno A. Tomas	Gen. Timekeeper	- do -
8.	Narciso S. Felipe	Warehouseman/Purchaser	- do -
9.	Francisco S. Felipe	Asst. Warehouseman	- do -
10.	Placido Balisbis	POL Tender	- do -
11.	Mariano Panganiban	Compound Watchman	- do -
12.	Antonio Cerdon	- do -	- do -
13.	Gregorio Macario	- do -	- do -
14.	Efren San Joaquin	Field Watchman	- do -
15.	Ernesto Viterbo	- do -	- do -
		III. MECHANICAL DEPARTMENT	
16.	Romeo A. Sauco	Equipment Foreman	Experienced
17.	Fernando Luna	Mechanic	- do -
18.	Jose Daruca	Mechanic	- do -
19.	Floro Palmarin	Mechanic/Operator	- do -
20.	Norberto Alambra	Mechanic Helper	- do -
21.	Doniciano Losa	Mechanic Helper	- do -
22.	Tito Jerusalem	Electrician	- do -
23.	Felixberto Pelagio	Welder	- do -
24.	Efren O. Nano	Tireman	- do -

IV. DRIVERS

25.	Wilfredo Roldan	Truck Driver	Experienced
26.	Pedro Malapo	-do-	- do -
27.	Pio Macario Jr.	- do -	- do -
28.	Luis Santos	- do -	- do -
29.	Rodolfo Parro	- do -	- do -
30.	Eliseo Roldan	- do -	- do -
31.	Roman Maghirang	- do -	- do -
32.	Carlito Atup	Pick-Up Driver	- do -

V. HEAVY EQUIPMENT OPERATORS

33.	Elmer Fabricante	Grader Operator	Experienced
34.	Reynaldo Vilavecencio	Payloader Operator	- do -
35.	Julio Ripo	Dozer Operator	- do -
36.	Aniano Jesus Jr.	Rd. Roller Operator	- do -
37.	Sancho Buendia	- do -	- do -
38.	Florentino Reonico	- do -	- do -
39.	Gregorio Basto	Asph. Distributor Optr.	- do -
40.	Ricardo Buendia	Asst. Rd. Roller Optr.	- do -

VI. SURVEY & LAB. TEAM

41.	Armando Parillas	Instrumentman	Experienced
42.	Carlos Bislumbre	Survey Aide	- do -
43.	Rafael Parillas	- do -	- do -
44.	Luis de Leon	Laboratory Aide	- do -

VII. MISCELLANEOUS STRUCTURES

45.	Jose Mariano	Gen. Const. Foreman	Experienced
46.	Romeo Bongat	Const. Foreman	- do -
47.	Pedro Bual	Carpenter	- do -
48.	Jorge Proa	- do -	- do -
49.	Pablo Catimbang	Laborer	- do -
50.	Oscar Moreno	- do -	- do -
51.	Jovenal Alba	- do -	- do -
52.	Catalino Canaveras	- do -	- do -
53.	Maximino Castillo	- do -	- do -
54.	Carlito Caneda	- do -	- do -
55.	Claudio Flores	- do -	- do -
56.	Pablo Gonzales	- do -	- do -
57.	Jose Garcia	- do -	- do -
58.	Paterno Panganiban	- do -	- do -
59.	Jose Panganiban	- do -	- do -
60.	Felix Calleja Jr.	Truck Helper	- do -
61.	Roberto Eron	- do -	- do -
62.	Santos Panganiban	- do -	- do -

63.	Abraham Gonzales	- do -	- do -
64.	Domingo Arbaca	- do -	- do -
65.	Teofisto Alamo	- do -	- do -

VIII. BRIDGE CONST. TEAM

66.	Juanito Porterio	Bridge Foreman	Experienced
67.	Juan A. Perez	Carpenter	- do -
68.	Fortunato Senson	- do -	- do -
69.	Teodulo Petrimetre	- do -	- do -
70.	Jose Petrimetre	- do -	- do -
71.	Roman Buena	- do -	- do -
72.	Vicente Magayanes	- do -	- do -
73.	Loreto Sabong	- do -	- do -
74.	Ronaldo Porteria	Steelman	- do -
75.	Bernardo Antonio	Mason	- do -
76.	Ramon Antonio	Laborer	- do -
77.	Jaime Senson	- do -	- do -
78.	Feliciano Robles	- do -	- do -

IX. ASPHALTING TEAM

79.	Nestor Mariano	Laborer	Experienced
80.	Jose Raymundo Jr.	- do -	- do -
81.	Leo Maga	- do -	- do -
82.	Pablo Hernandez	- do -	- do -
83.	Antonio Loma	- do -	- do -
84.	Jose Buena	- do -	- do -
85.	Carlos Buena Jr.	- do -	- do -
86.	Salvador Abiog	- do -	- do -
87.	Reynaldo Asor	- do -	- do -
88.	Oscar Buena	- do -	- do -
89.	Jose Lopez	- do -	- do -
90.	Nestor Bicaldo	- do -	- do -
91.	Cesar Buena	- do -	- do -
92.	Saturnino Hernandez	- do -	- do -
93.	Abundio Opiana	- do -	- do -
94.	Paciano Reburiano	- do -	- do -
95.	Antonio Rabuza	- do -	- do -

Submitted By:

(SGD.) PERPETUO D. AVILA
Personnel Officer/MLT

Annex "B"

BALM CONSTRUCTION CO., INC.
NAGA-CAROLINA ROAD PROJECT
NAGA CITY

LIST OF EQUIPMENT
As of October, 1979

1 - unit Bulldozer, Komatsu

1 - unit Bulldozer, CAT D7

1 - unit Payloader, CAT 950

2 - units Road Grader, CAT 12 99E

2 - units Payloader, KOMCO JH 65

1 - unit Road Roller, GALION, 3 wheeled

1 - unit Cons, Mixer, 1 Bagger

1 - unit Sheepsfoot Roller, Single Drum

1 - unit Generator, C. M. 3.5 Power

1 - unit Welding Machine, HOBART

3 - units Vibrator, Portable

1 - unit Service Car, Ford Fiera 1600

2 - units Dump Truck, ISUZU, T.M., 10 Wheeler

1 - unit Stake Truck, IH

8 - units Dump Truck, ISUZU, TD 6 Wheeler

2 - units Stake Truck, TOYOTA

1 - unit Tractor Massey Ferguson, Sheepsfoot Tower

1 - unit Pile Hammer, D-22

1 - unit Crane, Crawler, 50 Tonner

2 - units Bar Cutter

1 - unit Road Roller, GALION, 3 Wheeled

1 - unit Rock Crusher Complete with accessories

1 - unit Crane with Diesel Hammer

SUBMITTED BY:
(SGD.) E. DOROY

Annex "C"

List of Laboratory Equipment as of October, 1979

One - 8-inch brass sieve 3"
One - 8-inch brass sieve 2"
One - 8-inch brass sieve 1 ½"
One - 8-inch brass sieve 1"
One - 8-inch brass sieve ½"
One - 8-inch brass sieve 3/8
One - 8-inch brass sieve No. 50
One - 8-inch brass sieve No. 100
One - 8-inch brass sieve No. 60
Two - Triple Beam Scale 0.1 gm.
One - Micrometer Poise Balance 5.0 Kg.
One - Gas stove with oven
Two - Bucket for Immersing Aggregates
One - Volumetric Flask, 100 ml.
Twelve - Moisture Cans
One - Compaction Hammer, 5.5 lb.
One - Sand Cons Apparatus
Three - Field Density Plates
Two - Sand Scoop
One - Yield Bucket 1/10 cu. ft.
One - Yield Bucket 1 cu. ft.
Two - Tampering Rod
One - Slump Cone
Three - Cylinder Mold
One - Rectangular Mold
One - Asphalt Thermometer 100-400 °F
One - Stop Watch
Two - Cylinder Mold
Two - Modified Compaction Mold 1/30
One - 8-inch Brass sieve 3/4"
One - 8-inch Brass sieve No. 4
One - 8-inch Brass sieve No. 16
One - 8-inch Brass sieve No. 40
One - 8-inch Brass sieve No. 200
Liquid Limit Divise
Plastic Limit Set
Sand Absorption Cone and Tamper
Density

ITEM	DESCRIPTION	ESTIMAT SCHEDULED
1.60.1	Force Account Work (For the Spillway)	0.08996
1.60.3	Provide one (1) unit Utility Vehicle for Engineer	0.24291
1.60.4	Maintain, Operate & Repair one Unit Utility Vehicle for Engr.	0.14349
1.60.5	Laboratory & Office Equipment for Engineer as listed	0.33287
100	Clearing and Grubbing	1.15775
105 (Sec.)	Roadway and Drainage Excavation	9.34191
105 (Fed.)	Roadway and Drainage Excavation	4.60797
105-4	Excavation of Unsuitable Materials	0.93114
106	Excavation for Structures	0.21332
107	Borrow	11.31621
108	Aggregate Sub-base	2.973647
110	Foundation Fill	0.05397
111	Overhaul (300 M.) Freehaul	0.01427
200	Aggregate Base Course	12.09968
302	Medium Curing Cutback Asphalt, Grade MC-1 for Bituminous Prime Coat	3.75558
314(1)	Aggregate Matl. for Bit.-Surface Treatment (Hot Asphalt)	2.21316
314(3)	85-100 Penetration Asphalt Cement, for BST	7.19729
401	Timber (Detour) Trestle (Superstructure only on Concrete Pile Bent)	0.17993
402-2.5	Precast Concrete Piles	3.75536
402-2.5a	Concrete Test Piles (Furnish and Drive)	0.39585
403	Concrete Railing	0.11020
405	Concrete Class "A" (Miscellaneous)	3.01611
405-1	Concrete Class "A" (Bridge)	1.71979
406	Reinforcing Steel	3.24939
413	0.30 M. O RCP	0.05870
413-2	0.60 M. O RCP	0.41426
413-3	0.90 M. O RCP	0.70623
413-4	1.20 M. O RCP	2.49952
500	Riprap and Grouted	0.28274
501	Hand-Laid Embankment	0.01565
510	Right-of-Way Markers	0.14455
	TOTAL	100.000

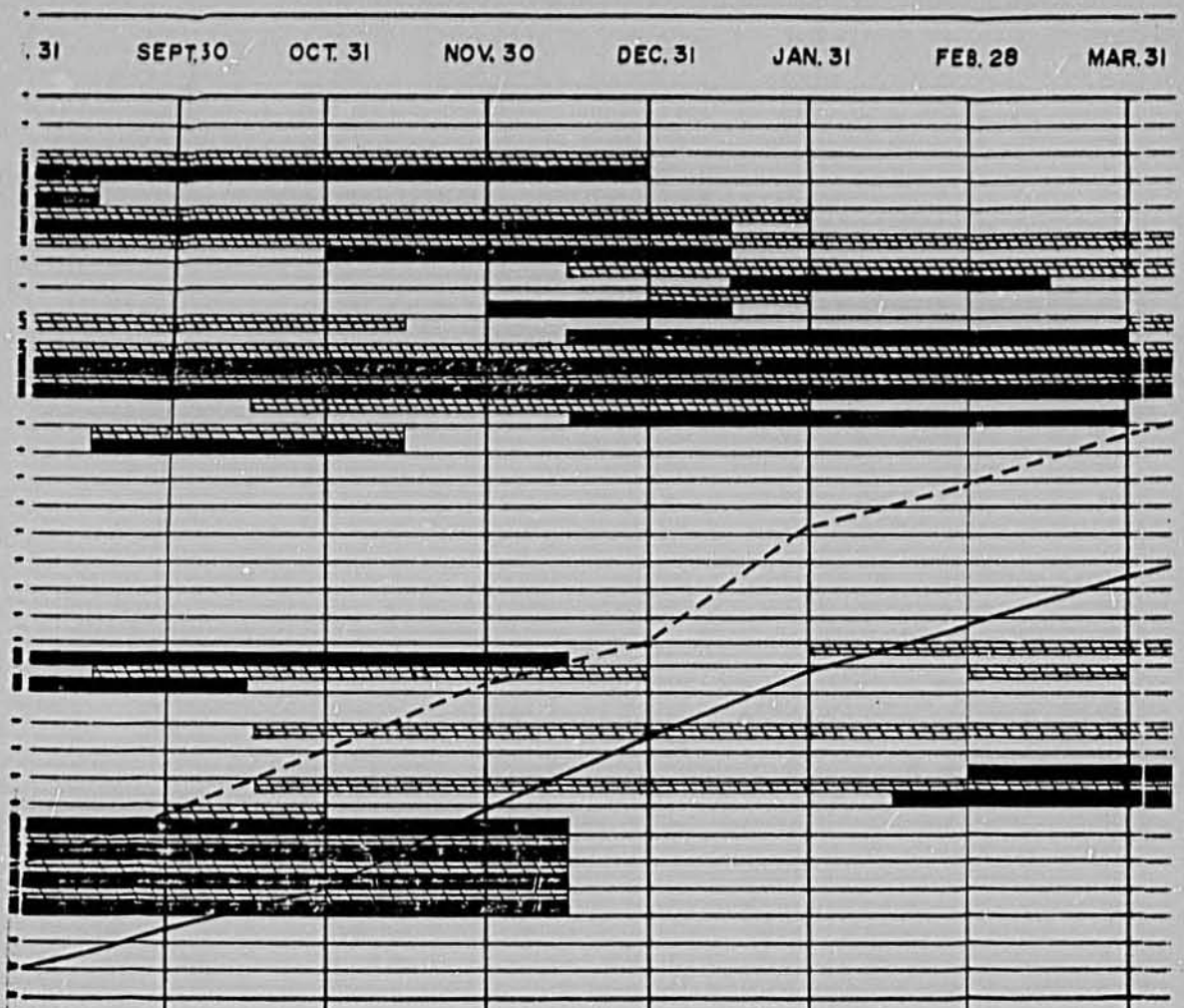
MONTHLY
CUMULATI
% TIME E

JULY 15, 1978

START OF CONTRACT TIME

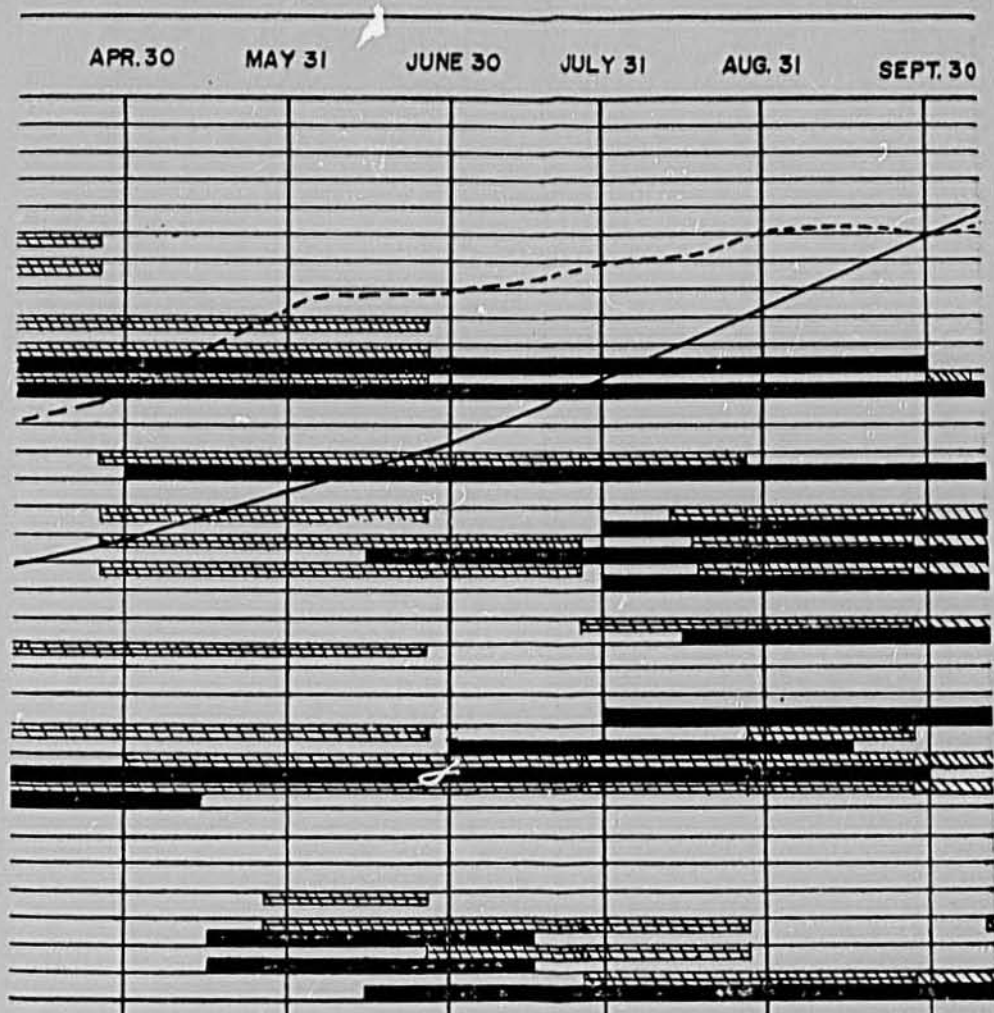
ED % PROJECT	WEIGHT ITEM	QUANTITY	UNIT COST	AMOUNT	JULY 31	AUG
0	0		Lump Sum	10,000.00		
0.[illegible]91	100		Lump Sum	27,000.00		
0.1[illegible]49	100	5.5 mos.	2,900.00	15,950.00		
0.[illegible]87	100		Lump Sum	37,000.00		
1.15[illegible]75	100	33.6 Hgs.	3,830.00	128,688.00		
0.3[illegible]19[illegible]	100	46,460 Cu.M.	22.35	1,038,381.00		
4.[illegible]	100	24,390 Cu.M.	21.00	512,190.00		
0.[illegible]	100	3,450 Cu.M.	30.00	103,500.00		
0.2[illegible]	100	1,355 Cu.M.	17.50	23,712.00		
14.19[illegible]	98	35,338 Cu.M.	35.00	1,257,830.00		
0.4[illegible]10	99	52,465 Cu.M.	63.00	3,305,295.00		
0.05[illegible]97	100	120 Cu.M.	50.00	6,000.00		
0.01[illegible]27	100	6,350 Sta.M	0.25	1,587.00		
7.85[illegible]70	65	18,810 Cu.M.	71.50	1,344,915.00		
2.[illegible]35	60	129 M.T.	3,236.00	417,444.00		
1.3[illegible]00	60	1,760 Cu.M.	140.00	246,400.00		
4.31[illegible]37	60	256 M.T.	3,125.00	800,000.00		
0.17[illegible]03	100	2 SPANS	10,000.00	20,000.00		
3.7[illegible]36	100	540 L.M.	773.00	417,420.00		
0.39[illegible]35	100	4 EACH	11,000.00	44,000.00		
0	0	98 L.M.	125.00	12,250.00		
[illegible]70	98	447 Cu.M.	750.00	335,250.00		
1.71979	100	236 Cu.M.	810.00	191,160.00		
3.24939	100	55,997 Kgs.	6.45	361,180.00		
0.05870	100	45 L.M.	145.00	6,525.00		
0.41426	100	161 L.M.	286.00	46,046.00		
0.70523	100	157 L.M.	500.00	78,500.00		
2.49952	100	294 L.M.	945.00	277,830.00		
1.38[illegible]74	100	216 Cu.M.	145.00	31,428.00		
0.01[illegible]55	100	30 Cu.M.	58.00	1,740.00		
0.08[illegible]	62	412 Each	39.00	16,068.00		
0.573	AS OF OCTOBER, 1979		P 11,115,290.65			
PERIODICAL ACCOMPLISHMENT					P83,717.54	236,651.72
VE TOTAL AMOUNT						P3203692[illegible]
LAPSED					3.04%	8.59%

REVISED BAR SCHEDULE OF W'C
OF
NAGA-CAROLINA ROAD



571,503.51	572,590.54	955,212.81	955,394.77	729,830.35	607,028.93	633,065.04	46
891,872.77	1,464,463.31	2,419,676.12	3,375,070.89	4,104,901.24	4,711,930.17	5,344,995.21	58
13.95%	19.50%	24.87%	30.41%	35.96%	40.97%	46.51%	

)RK

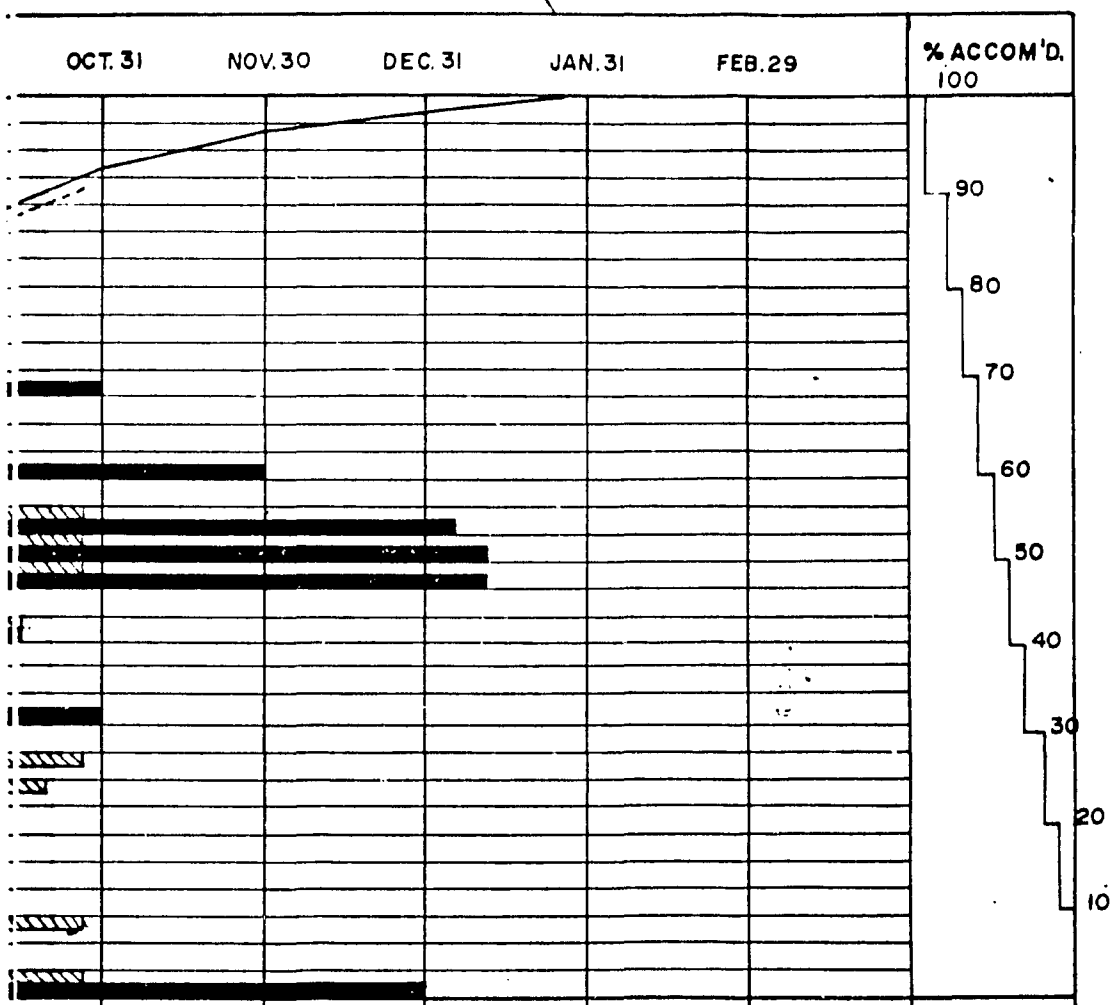


8,538.29	623,470.40	571,891.95	736,751.21	971,504.45	879,616.53	716,
13,533.50	6,437,003.90	7,008,895.85	7,745,647.06	8,717,151.51	9,596,768.04	10,313
51.88%	57.42%	62.77%	68.34%	73.88%	79.25%	84

LEGEND:

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

JAN. 24, 1980
COMPLETION DATE



82.17	452,332.50	272,586.12	76,621.82			
50.21	10,766,082.71	11,038,668.83	11,115,290.65			
.79%	90.16%	95.71%	100%			

BICOL RIVER BASIN DEVELOPMENT PROJECT

(ROAD COMPONENTS)

MANPOWER SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVISION

PACKAGE II

NAMES	POSITION	1 July	2 Aug.	3 Sept.	4 Oct.	5 Nov.	6 Dec.	7 Jan.	8 Feb.	9 Mar.	10 Apr.	11 May	12 Jun.	13 July	14 Aug.	15 Sept.	16 Oct.	17 Nov.	18 Dec.	MEN MONTHS
A. E. BANDELARIA	DEPUTY PROJ. MAG'R.																			17
L. D. MAYOR	SR. HWY. ENG'R./R.E.																			17
F. G. OBUSAN	SR. BR. ENG'R/R.E																			17
V. B. ZAÑO	SR. LOC. ENG'R/R.E.																			17
J. A. TORRALBA	SR. MATL'S. ENG'R./R.E.																			17
F. C. ROSALES	ADM. OFFICER																			17
L. P. JOSE	CLERK/TYPIST																			17
T. S. SABABAN	MES'R. JANITOR																			17
																			SUB-TOTAL	136
SUB-PROJECT No. 10, NAGA-CAROLINA ROAD																				
L. D. MAYOR	SR. HWY. ENG'R./R.E.	SAME AS KEY STAFF																		
B. A. BAUTISTA	MATERIALS ENG'R.																			17
R. L. CLARIDAD	ENG'R. INSP. (HWY.)																			17
E. REYES	ENG'R. INSP. (BR.)																			12
B. P. BAUTISTA	SURVEYOR/DRAFTS'N.																			17
H. B. BELLEN	LABORATORY TECH.																			17
E. C. CASTILLO	LABORER																			17
																			SUB-TOTAL	97

Bicol River Basin Development Projects
Secondary and Feeder Roads

PACKAGE II

Pili-Mataoroc Road Project
Sub-Project No. 5

Monthly Construction Report
No. 14

October , 1979

Prepared by:

FRANCISO G. OBUSAN
Sr. Br. Engineer/ Res. Engr.

Submitted by:

AMADO E. BANDELARIA
Deputy Project Manager

PROGRESS REPORT NO. 14
October, 1979

PROJECT: PILI-MATAOROC ROAD PROJECT (Secondary and Feeder Roads) Sub-Project No. 5

1. GENERAL

Construction activities were mostly concentrated on the Feeder Road No. 501 (Mataoroc-Manapao-Baliwag). Activities consisted mostly of clearing and grubbing, excavation of unsuitable materials and hauling and placing of item 107. Test piles for timber trestle bridges at Feeder Road No. 501 (Mataoroc-Manapao-Baliwag) and Feeder Road No. 502 (Sagrada-San Isidro) were already driven with bearing capacities greater than the specified 18 U. S. Tons. Other work activities are casting and placing of R.C. pipes, and construction of headwalls for R.C. pipes. Detailed work activities for each road can be found in succeeding paragraphs.

2. PROGRESS

Unfavorable weather during the early part of the month affected the progress of work. However, hauling and placing of item 107 were in progress in Feeder Road No. 501 (Mataoroc-Manapao-Baliwag) and Feeder Road No. 502 (Sagrada-San Isidro). Work on structures, especially on R.C. test piles are underway although the contractor has to improve its activities on RCBC's and other items of work. Work accomplished to date as per contract is 59.18186% with a time elapsed of 65.00%.

I. GENERAL (Secondary and Feeder Roads)

The following are included in this Report; List of Contractor's Personnel (Annex "A"), List of Construction Equipment (Annex "B") and List of Laboratory and Office Equipment (Annex "C"), Weather Report, Manpower or List of Personnel of the Engineers (Consultants) and Location Map of the Project.

II.a ROADS, BRIDGES AND DRAINAGE STRUCTURES
(Secondary Road)

Construction Survey

Placing of kilometer post.

Earthwork

No activity during the month.

Surfacing

No activity during the month.

Structures

Construction of straight type headwalls for R.C. pipes at sta. 2 + 358.52 and sta. 2 + 760.

Drainage and Erosion Works

The following pipes have been installed as of October 25, 1979.

SIZE Ø	R.C.P. INSTALLED (L.M.)			REMARKS
	Prev. Mo.	This Mo.	Total	
0.30	104.40	-	104.40	
0.46	96.00	-	96.00	
0.61	62.40	-	62.40	
0.91	214.80	-	214.80	
1.20	90.00	-	90.00	

STATION	NUMBER	SIZE	LENGTH
0+552.00	5	0.30 M	6.00 Meters
1+013.37	12	0.30 M	14.40 "
1+376.30	10	0.30 M	12.00 "
7+010.00	11	0.30 M	13.20 "
7+625.00	11	0.30 M	13.20 "
8+210.00	11	0.30 M	13.20 "
8+312.00	13	0.30 M	15.60 "
8+955.25	14	0.30 M	16.80 "
TOTAL	87		104.40 Meters

2+912.00	10	0.46 M	12.00 Meters
4+535.00	10	0.46 M	12.00 "
4+825.00	10	0.46 M	12.00 "
6+317.73	11	0.46 M	13.20 "
7+275.00	11	0.46 M	13.20 "
7+407.00	11	0.46 M	13.20 "
7+850.00	6	0.46 M	7.20 "
8+010.00	11	0.46 M	13.20 "
TOTAL	80		96.00 Meters

0+100.00		10	0.61 M		12.00 Meters
0+300.00		10	0.61 M		12.00 "
1+625.00		10	0.61 M		12.00 "
3+100.00		10	0.61 M		12.00 "
3+525.00		12	0.61 M		14.40 "
T O T A L		52			62.40 Meters

0+750.00		10	0.91 M		12.00 Meters
1+107.39		10	0.91 M		12.00 "
1+286.70		10	0.91 M		12.00 "
1+993.10		8	0.91 M		9.60 "
2+103.42		10	0.91 M		12.00 "
2+358.52		10	0.91 M		12.00 "
4+700.00		10	0.91 M		12.00 "
5+175.00		14	0.91 M		16.80 "
5+350.00	2 @	12	0.91 M	2 @	14.40 "
5+425.00		10	0.91 M		12.00 "
6+950.00		11	0.91 M		13.20 "
7+475.00		14	0.91 M		16.80 "
8+475.00	2 @	13	0.91 M	2 @	15.60 "
7+710.00		12	0.91 M		14.40 "
T O T A L		179			214.80 Meters

2+760.00		12	1.20 M		14.40 Meters
5+000.00		11	1.20 M		13.20 "
6+625.00	2 @	14	1.20 M	2 @	16.80 "
9+000.00	2 @	12	1.20 M	2 @	14.40 "
T O T A L		75			90.00 Meters

6. Materials Testing and Control

ITEM NO.	KIND OF TEST	NO. OF TESTS		
		Prev. No.	This No.	Total
105	Grading	7	-	7
	PL & LL	7		7
	Compaction	7		7
	F. Density	-		-
106	Grading	1	-	1
	PL & LL	1	-	1
	Compaction	1	-	1
	F. Density	1	-	1
107	Grading	95	-	95
	PL & LL	95	-	95
	Compaction	95	-	95
	F. Density	768	-	768
108	Grading	92	-	92
	PL & LL	92	-	92
	Compaction	92	-	92
	F. Density	252	-	252
110	PL & LL	1	-	1
200	Grading	1	-	1
	Compaction	1	-	1
	F. Density	3	-	3

402-2.5 (F.A)	Grading	3	-	3
	Sp.Gravity	1	-	1
	Unit Wt.	1	-	1
402-2.5 (C.A)	Grading	3	-	3
	Sp. Gravity	1	-	1
	Unit Wt.	1	-	1
405-A	Design Mix	2	-	2
405-2.1 (C.A)	Grading	2	-	2
405-2.2 (F.A.)	Grading	2	-	2
405-C	Design Mix	2	-	2
413(F.A)	Grading	4	-	4
	Sp. Gravity	1	-	1
	Unit Weight	1	-	1
413(C.A)	Grading	4	-	4
	Sp. Gravity	1	-	1
	Unit Weight	1	-	1

NOTE:

No accomplishment. Same tests as of August, 1979.

DATE	LOCATION OF STRUCTURE	RESULT AFTER 28 DAYS	REMARKS
11-4-78	12" Ø R C P	3060	Passed
-do-	-do-	3450	Passed
-do-	-do-	3520	Passed
11-12-78	18" Ø R C P	[illegible]	Passed
-do-	-do-	3415	Passed
11-18-78	36" Ø R C P	2071	Failure
-do-	-do-	[illegible]	Passed
-do-	-do-	3350	Passed
11-24-78	R.C. Test Pile, RCDG SAGRADA Bridge	3560	Passed
-do-	-do-	3630	Passed
-do-	R.C. Test Pile, RCDG MATAORO - MAPAO Bridge	3580	Passed
-do-	-do-	3840	Passed
-do-	-do-	3920	Passed
11-25-78	24" Ø R C P	3090	Passed
-do-	-do-	3135	Passed
11-28-78	36" Ø R C P	3111	Passed
-do-	-do-	3334	Passed
12-16-78	48" Ø R C P	3377	Passed
-do-	-do-	3397	Passed
-do-	-do-	3425	Passed
12-18-78	18" Ø R C P	2970	Failure
-do-	-do-	3340	Passed
-do-	-do-	3481	Passed
12-19-78	36" Ø R C P	2614	Failure
-do-	-do-	3160	Passed
-do-	-do-	3457	Passed
12-20-78	48" Ø R C P	3410	Passed
-do-	-do-	3465	Passed
-do-	-do-	4020	Passed
2-12-79	36" Ø R C P	3195	Passed
-do-	-do-	3332	Passed
-do-	-do-	3411	Passed
2-15-79	48" Ø R C P	3000	Passed
-do-	-do-	3040	Passed
-do-	-do-	3087	Passed
2-16-79	12" Ø R C P	3010	Passed
-do-	-do-	3444	Passed
-do-	-do-	3516	Passed
3-13-79	RCP, RCDG, SAGRADA Bridge	3562	Passed
-do-	-do-	3843	Passed
-do-	-do-	4108	Passed

BEST AVAILABLE COPY

DATE	LOCATION OF STRUCTURE	RESULT AFTER 28 DAYS	REMARKS
3-13-79	24" Ø R C P	3,740	Passed
-do-	-do-	3,252	Passed
-do-	-do-	2,814	Failure
3-20-79	36" Ø R C P	3,462	Passed
-do-	-do-	3,149	Passed
-do-	-do-	3,432	Passed
3-24-79	48" Ø R C P	2,979	Failure
-do-	-do-	3,313	Passed
-do-	-do-	3,410	Passed
4-2-79	18" Ø R C P	3,065(15 days)	Passed
-do-	-do-	3,243 -do-	Passed
-do-	-do-	3,255 -do-	Passed
-do-	-do-	3,302	Satisfactory
-do-	-do-	3,283	Satisfactory
5-5-79	36" Ø R C P	3,106(12 days)	Satisfactory
-do-	-do-	3,420 -do-	Satisfactory
-do-	-do-	3,516 -do-	Satisfactory
5-7-79	48" Ø R C P	3,296(33 days)	Satisfactory
-do-	-do-	2,743 -do-	Failure
5-9-79	18" Ø R C P	3,623 (31 days)	Satisfactory
5-13-79	36" Ø R C P	2,830	Failure
-do-	-do-	2,655	Failure
-do-	-do-	2,604	Failure
5-17-79	36" Ø R C P	2,392(23 days)	Satisfactory
-do-	-do-	2,970Ave.2936	Satisfactory
-do-	-do-	2,946	Satisfactory
5-19-79	12" Ø R C P	3,203(21 days)	Passed
-do-	-do-	2,989 3028	Compressive
-do-	-do-	2,892	strength requirement
6-7-79	Abutment "A" SAGRADA BR	3,382(32 days	Passed compressive
-do-	-do-	3,125Ave.3,389	Strength requirement
-do-	-do-	3,661	
6-29-79	Abutment A&B SAGRADA BR.	3,358(20 days)	
-do-	LACKWALL & WINGWALL	2,799Ave. 3,182	-do-
-do-	-do-	3,389	
7-10-79	36" Ø R C P	2,799Ave. 3,431	-do-
-do-	-do-	4,245	
-do-	-do-	3,167	
7-12-79	48" Ø R C P	3,856(18 days)	
-do-	-do-	3,452Ave. 3,825	-do-
-do-	-do-	4,167	
7-18-79	12" Ø R C P	2,892(14 days)	Satisfactory
-do-	-do-	2,923Ave. 2,853	for 28 days
-do-	-do-	2,744	

8-4-79 -do- -do-	Item 405 Sagrada Bridge (Girders)	3,415	Passed compressive Strength requirement
8-4-79 -do- -do-	Test Pile FR #501 TTr Br. Sta. 0+218- 0+224 -do-	3,260	Passed compressive strength requirement
8-6-79 -do- -do-	Test Pile FR #501 TTr Br. Sta. 1+367- 1+385 -do-	2,565	Failure
8-10-79 -do- -do-	Item 405 Sagrada Bridge (Slab)	3,295	Passed compressive strength requirement

<u>Additional for this month:</u>

8-21-79 -do- -do-	Sagrada Bridge Railing -do-	3,439	Passed compressive strength requirement
8-25-79 -do- -do-	Test Pile for TbTe sta. 1+880 FR 502 -do-	3,478	-do-
8-28-79 -do- -do-	RCBC, sta. 4+000 -do-	3,322	-do-
9-1-79 -do- -do-	Test pile for TbTe sta. 1+433 FR 504 -do-	3,485(55days)	-do-
9-28-79 -do- -do-	RCP, 0.91 M Ø -do- -do-	3,156(27days)	-do-
10-12-79 -do- -do-	RCP, 0.30 M Ø -do- -do-	3,195(13days)	-do-
10-12-79 -do- -do-	RCP, 0.61 M Ø -do- -do-	3,247(13days)	-do-
10-15-79 -do- -do-	RCP, 0.61 M Ø -do- -do-	3,021(10days)	Satisfactory
10-16-79 -do-	RCP, 0.30 M Ø -do-	3,080(9days)	Satisfactory

II.b ROADS, BRIDGES AND DRAINAGE STRUCTURES
(Mataoroc-Manapao-Baliwag, Feeder Road No. 501)

Construction Survey

Placing of kilometer post. Profile levelling from sta. 1+300 to 1 + 425 and cross sectioning from sta. 3+000 to 5+075.

Earthwork

Clearing and grubbing from sta. 3+350 to 3+700, excavation of unsuitable materials from sta. 3+300 to 3+700 and placing of item 107 from sta. 3+150 to 3+650.

Surfacing

No activity during the month.

Structures

Drive R.C. test piles for timber trestle bridge at sta. 0+211 and sta. 1+376.

Drainage and Erosion Works

The following R.C. pipes have been installed as of October 25, 1979.

SIZE	R.C.P. INSTALLED (L.M.)			REMARKS
Ø	Prev. No.	This No.	Total	
0.30	30.00	8.40	38.40	
0.46	7.20	25.20	32.40	
0.61	-	9.60	9.60	
0.91	24.00	9.60	33.60	
1.20	85.20	2.40	87.60	

STATION		NUMBER	SIZE		LENGTH
1+727.00		8	0.30 M		9.60 Meters
2+147.00		6	0.30 M		7.20 "
2+537.00		6	0.30 M		7.20 "
2+656.00		6	0.30 M		7.20 "
2+800.00		6	0.30 M		7.20 "
T O T A L		32			38.40 Meters
1+775.00		8	0.46 M		9.60 Meters
7+034.00		10	0.46 M		12.00 "
7+163.90		9	0.46 M		10.80 "
T O T A L		27			32.40 Meters
2+013.00		8	0.61 M		9.60 Meters
0+650.00		9	0.91 M		10.80 Meters
1+550.00		10	0.91 M		12.00 "
3+150.00		9	0.91 M		10.80 "
T O T A L		28			33.60 Meters
0+840.00		11	1.20 M		13.20 Meters
1+114.50	2 @	14	1.20 M	2@	16.80 "
2+257.00		10	1.20 M		12.00 "
2+440.00	2 @	12	1.20 M	2@	14.40 "
T O T A L		73			87.60 Meters

Materials Testing and Control

ITEM NO.	KIND OF TEST	NO. OF TESTS			REMARKS
		Prev.Mo.	This Mo.	Total	
107	Grading	24	2	26	
	PL & LL	24	2	26	
	Compaction	24	2	26	
	F. Density	160	8	168	
105	Grading	1	-	1	
	PL & LL	1	-	1	
	Compaction	1	-	1	
	F. Density	4	-	4	
402-2.2	Grading	2	-	2	
402-2.3	Grading	2	-	2	
	Design Mix	2	-	2	

II.c ROADS, BRIDGES AND DRAINAGE STRUCTURES
(Sagrada-San Isidro, Feeder Road No. 502)

Construction Survey

Checking of center line and elevation of timber trestle bridge at sta. 1 + 880.

Earthwork

Placing of item 107 from sta. 1 + 825 to 1 + 871.

Surfacing

No activity during the month.

Structures

Drive R. C. Test Pile for timber trestle bridge at sta. 1 + 880.

Drainage and Erosion Works

The following pipes have been installed as of October 25, 1979.

SIZE Ø	R.C.P. INSTALLED (L.M.)			REMARKS
	Prev. Mo.	This Mo.	Total	
0.46	9.60	-	9.60	
0.61	21.60	-	21.60	
1.20	19.20	-	19.20	

STATION	NUMBER	SIZE Ø	LENGTH
0+616.00	8	0.46 M	9.60 Meters
0+050.00	10	0.61 M	12.00 Meters
1+146.00	8	0.61 M	9.60 "
T O T A L	18		21.60 Meters
1+563.00 2@	8	1.20 M 2 @	9.60 Meters

Materials Testing and Control

ITEM NO.	KIND OF TEST	NO. OF TESTS Prev. Mo.	This Mo.	Total	REMARKS
107	Grading	9	1	10	
	LL & PL	9	1	10	
	Compaction	9	1	10	
	F. Density	96	3	99	
405-2.2 (FA)	Grading	2	-	2	
405-2.3 (CA)	Grading	2	-	2	
405cl. "C"	Design Mix	2	-	2	
402-2.52	Test Pile Insp. Report	1	-	1	

II.d ROADS, BRIDGES AND DRAINAGE STRUCTURES
(Manapao-Malitbog, Feeder Road No. 503)

No activity during the month because this is not yet accessible to construction equipment.

II.e ROADS, BRIDGES AND DRAINAGE STRUCTURES
(San Jose-San Ramon, Feeder Road No. 504)

Construction Survey

Profile levelling from sta. 0 + 114 to 1+ 425.

Earthwork

No activity during the month.

Surfacing

No activity during the month.

Structures

Construction of falsework for driving of test pile for timber trestle bridge at sta. 1 + 433.

Drainage and Erosion Works

The following pipes have been installed as of October 25, 1979.

SIZE Ø	R.C.P. INSTALLED (L.M.)			REMARKS
	Prev. Mo.	This Mo.	Total	
0.60	21.60	-	21.60	
0.90	21.60	-	21.60	
1.20	-	9.60	9.60	

STATION	NUMBER	SIZE Ø	LENGTH
0+725.00	8	0.61 M	9.60 Meters
0+850.00	10	0.61 M	12.00 "
TOTAL	18		21.60 Meters
1+000.00	10	0.91 M	12.00 Meters
0+550.00	8	0.91 M	9.60 "
TOTAL	18		21.60 Meters
0+325.00	8	1.20 M	9.60 Meters

Materials Testing and Control

ITEM NO.	KIND OF TEST	NO. OF TESTS			REMARKS
		Prev.Mo.	This Mo.	Total	
105	Grading	5	-	5	
	PL & LL	5	-	5	
	Compaction	5	-	5	
	F. Density	13	-	13	
107	Grading	4	-	4	
	PL & LL	4	-	4	
	Compaction	4	-	4	
	F. Density	16	-	16	
108	Grading	2	-	2	
	PL & LL	2	-	2	
	Compaction	2	-	2	
	F. Density	4	-	4	

COMMENTS AND RECOMMENDATIONS

The slow progress of the work is due to 1) unfavorable weather condition during the early part of the month, 2) lack of much needed essential construction equipment which delay the delivery, 3) spreading of item 107, 4) working hours was limited to four O'clock in the afternoon even if the weather is most favorable and 5) little activity on other items of work.

It is recommended that additional haulers and spreading equipment be utilized to increase delivery and placing of item 107. All other item of work that can be done simultaneously should be scheduled and undertaken in order to maximize the progress of work.

In order to expidite the construction of Timber (Detour) Trestle bridges, approval is strongly recommended for the use of .35 m x .35 m pre-stressed concrete piles in place of the specified .40 m x .40 m R.C. bearing piles. The use of pre-stressed concrete piles has been approved and authorized in the construction of RCDG bridges in Naga-Carolina Road.

The contractor is trying their best to have the bridges at Sagrada-San Isidro and San Jose-San Ramon Feeder Roads as suggested by Mr. Bird of the USAID.

PROJECT: PILI-NATAOROC ROAD
SUB-PROJECT NO. 5

WEATHER REPORT

Date - 1979		Weather	Remarks	Time Extension Recommended
Sept.	26	Fair	Workable	None
	27	Fair w/ rainy evening	Workable	None
	28	Fair w/ rainy PM	Unworkable	One (1) day
	29	Fair AM, rainy PM	Unworkable	One (1) day
	30	Rainy AM, fair to cloudy PM	Unworkable	One (1) day
Oct.	1	Intermittent rain	Unworkable	One (1) day
	2	Heavy rain early AM	Unworkable	One (1) day
	3	Fair	Workable	None
	4	Fair to cloudy w/ light shower	Workable	None
	5	Intermittent rain w/ rainy evening	Unworkable	One (1) day
	6	Fair to cloudy w/ rainy evening	Unworkable	One (1) day
	7	Fair with occassional rain	Unworkable	One (1) day
	8	- do -	Unworkable	One (1) day
	9	Intermittent rain	Unworkable	One (1) day
	10	Fair	Workable	None
	11	Fair	Workable	None
	12	Fair with rain early PM	Workable	None
	13	Fair to cloudy	Workable	None
	14	Fair to cloudy	Workable	None
	15	Fair	Workable	None
	16	Dry	Workable	None
	17	Dry	Workable	None
	18	Dry	Workable	None
	19	Dry	Workable	None
	20	Fair to cloudy w/ rain early PM	Workable	None
	21	Fair to cloudy w/ occassional shower	Workable	None
	22	Rainy	Unworkable	One (1) day
	23	Fair to cloudy	Unworkable	One (1) day
	24	Fair	Workable	None
	25	Fair	Workable	None

TOTAL EXTENSION OF TIME RECOMMENDED THIS MONTH - - - - - 12 days
TOTAL EXTENSION OF TIME RECOMMENDED PREVIOUSLY - - - - - 110 days
GRAND TOTAL - - - - - 122 days

Date of effectivity of Contract - - - - - - - - -September 18, 1978
Percent Time Elapsed - - - - - - - - - - - - - - - 65.00%

A. B. AGUINALDO CONSTRUCTION, INC.
PILI-ATAOROC ROAD PROJECT
SUB-PROJECT NO. 5
PILI, CAMARINES SUR

LIST OF PERSONNEL
As of October, 1979

NAME	POSITION	QUALIFICATION
I. TECHNICAL STAFF		
1. Ramon Bautista	Project Manager	Civil Engineer
2. Emilio Angeles	Project Engineer	- do -
3. Emilio Galvez	Mechanical Engineer	Mechanical Engineer
4. Eduardo Lopez	C. E. Aide	Experienced
II. ADMINISTRATIVE STAFF		
1. Remegio Espada	Administrative Officer	A.B. Graduate
2. Rosana Espada	Clerk/Typist	Experienced
3. Nena Laynesa	Clerk/Typist	- do -
4. Mario Yulip	Courier	- do -
5. Mariano Lascano	Janitor/IPI	- do -
III. MECHANICAL DEPARTMENT		
1. Cesar Aquino	Actg. Chief Mechanic	Experienced
2. Avelino Rebece	Mechanic	- do -
3. Alfredo de Guzman	- do -	- do -
4. Ruperto Penalba	- do -	- do -
5. Quirico Marjolino, Jr.	- do -	- do -
6. Ciriaco Dequito	- do -	- do -
7. Onofre Mota	Electrician	- do -
8. Petronio Evangelista	Welder	- do -
9. Victor Gandagon	Batteryman	- do -
10. Wenceslao Bilano	Mechanic/Tireman	- do -
11. Melchor Serrano	Fuel Tender/Mtls. Checker	- do -
12. Rolando Nabuc	Serviceman	- do -
IV. DRIVERS		
1. Dante Doo	D.T. Driver	Experienced
2. Domingo Milana	- do -	- do -
3. Rodolfo Ansay	- do -	- do -
4. Benjamin Obrero	- do -	- do -
5. Rustico Caneda	- do -	- do -
6. Bienvenido Lacerna	- do -	- do -
7. Ernesto Gavino	- do -	- do -
8. Roden Jayco	Service Driver	- do -

V. SURVEY TEAM

1.	Pedro Collada	Instrumentman	Experienced
2.	Santos Temporal	Chainman	- do -
3.	Jesus Lacerna	Rodman	- do -
4.	Pedro Olivarez	Survey Aide	- do -

VI. LABORATORY

1.	Asiaclo Macaraig	Laboratory Aide	Experienced
2.	Santiago Macario	- do -	- do -
3.	Pedro Preconcillo	- do -	- do -

VII. HEAVY EQUIPMENT OPERATORS

1.	Federico dela Cruz	B. Dozer Operator	Experienced
2.	Lemuel Moreno	- do -	- do -
3.	Benjamin Baron	Loader Operator	- do -
4.	Pedro Custorio	Dynapac Operator	- do -
5.	Romeo Zamudio	Euclid Operator	- do -
6.	Vicente Longasa	Water Truck Helper	- do -

VIII. RCP WORKERS

1.	Paquito Daz	Foreman	Experienced
2.	Roberto Dawal	Mason	- do -
3.	Salvador Dawal	Mason	- do -
4.	Jose Dawal	Laborer	- do -
5.	Ernesto Bata	- do -	- do -
6.	Domingo Naron	- do -	- do -
7.	Valentin	- do -	- do -
8.	Benjamin Duban	- do -	- do -
9.	Jesus Malante	- do -	- do -
10.	Ramon Barcia	- do -	- do -
11.	Juan Bavelonia	- do -	- do -
12.	Angel Pacio	- do -	- do -

IX. BRIDGE GANG

1.	Vicente Miranda	Foreman	Experienced
2.	Felicisimo Abejero	Carpenter	- do -
3.	Miguel Dasmarinas	- do -	- do -
4.	Felix Duran	- do -	- do -
5.	Viviano Mindioro	- do -	- do -
6.	Rosalio Orcha	- do -	- do -
7.	Romulo Villaluz	- do -	- do -
8.	Simplicio Berina	Laborer-Watchman	- do -

SUBMITTED BY:

(SGD.) RAMON M. BAUTISTA
Project Manager

V. SURVEY TEAM

1.	Pedro Collada	Instrumentman	Experienced
2.	Santos Temporal	Chainman	- do -
3.	Jesus Lacerna	Rodman	-do -
4.	Pedro Olivarez	Survey Aide	- do -

VI. LABORATORY

1.	Asisclo Macaraig	Laboratory Aide	Experienced
2.	Santiago Macario	- do -	- do -
3.	Pedro Preconcillo	- do -	- do -

VII. HEAVY EQUIPMENT OPERATORS

1.	Federico dela Cruz	B. Dozer Operator	Experienced
2.	Lemuel Moreno	- do -	- do -
3.	Benjamin Baron	Loader Operator	- do -
4.	Pedro Custorio	Dynapac Operator	- do -
5.	Romeo Zamudio	Euclid Operator	- do -
6.	Vicente Longasa	Water Truck Helper	- do -

VIII. RCP WORKERS

1.	Paquito Daz	Foreman	Experienced
2.	Roberto Dawal	Mason	- do -
3.	Salvador Dawal	Mason	- do -
4.	Jose Dawal	Laborer	- do -
5.	Ernesto Bata	- do -	- do -
6.	Domingo Naron	- do -	- do -
7.	Valentin	- do -	- do -
8.	Benjamin Buban	- do -	- do -
9.	Jesus Malante	- do -	- do -
10.	Ramon Barcia	- do -	- do -
11.	Juan Bavelonia	- do -	- do -
12.	Angel Paelo	- do -	- do -

IX. BRIDGE GANG

1.	Antonio Alapan	Foreman	Experienced
2.	Antonio Collada	Leadman/Carpenter	- do -
3.	Alberto Bayos	Carpenter/Mason	- do -
4.	Gaudencio Larcena	- do -	- do -
5.	Inocentes Laydenos	- do -	- do -

SUBMITTED BY:

(SGD.) RAMON M. BAUTISTA
Project Manager

A.B. AGUINALDO CONSTRUCTION, INC.
PILI - MATAOROC ROAD PROJ.
SUB - PROJECT NO. 5
PILI, CAMARINES SUR

LIST OF EQUIPMENTS
As of October, 1979

1 unit	-	Bulldozer, D60 P Komatsu
2 units	-	Bulldozer, D7 Caterpillar
2 units	-	Payloader, 950 Caterpillar
1 unit	-	32 - ton Truck Mounted Crane
1 unit	-	Road Grader, Komatsu
1 unit	-	KB - 25 Pile Hammer
1 unit	-	3 Wheeled Roller, Galeon
1 unit	-	Self-propelled sheepsffot roller, Euclid 101
1 unit	-	Welding Machine, Continental
1 unit	-	Self-propelled vibro compactor, Dynapac C - 25
1 unit	-	Generator, 3KW, Yanmar Diesel Engine driven
1 unit	-	½ HP Goulds Water Pump, 4 HP Kohler Engine Driven
1 unit	-	1 Bagger Concrete Mixer
1 unit	-	Bar Cutter
1 unit	-	1 ½ Ton Drop Hammer
1 unit	-	Toyota Land Cruiser (Service Vehicle)
2 units	-	Toyota Hi-Lux (Service Vehicle)
1 unit	-	6 - Wheeler Dump Truck, Hino
1 unit	-	6 - Wheeler Dump Truck, Isuzu
4 units	-	10 - Wheeler Dump Trucks, Isuzu
6 units	-	10 - Wheeler Dump Trucks, White, IH, (private haulers)

LIST OF LABORATORY EQUIPMENTS
As of October 1979

8 - inch Brass Sieve Size 3"	1	ea
8 - inch Brass Sieve Size 2½"	1	ea
8 - inch Brass Sieve Size 2"	1	ea
8 - inch Brass Sieve Size 1½"	1	ea
8 - inch Brass Sieve Size 1"	1	ea
8 - inch Brass Sieve Size 3/4	1	ea
8 - inch Brass Sieve Size ½"	1	ea
8 - inch Brass Sieve Size 3/8	1	ea
8 - inch Brass Sieve Size #4	1	ea
8 - inch Brass Sieve Size #8	1	ea
8 - inch Brass Sieve Size #10	1	ea
8 - inch Brass Sieve Size #16	1	ea
8 - inch Brass Sieve Size #30	1	ea
8 - inch Brass Sieve Size #40	1	ea
8 - inch Brass Sieve Size #50	1	ea
8 - inch Brass Sieve Size #100	1	ea
8 - inch Brass Sieve Size #200	1	ea
8 - inch Diam. Brass Cover less ring	1	ea
8 - inch Diam. Brass pan	1	ea
8 - inch Wet Washing Sieve #200	1	ea
Sample Splitter 2½" chute width	1	ea
Sample Splitter 1½" chute width	1	ea
Heavy Duty Solution Balance, 1 gram sen.	1	ea
Triple Beam Balance, 0.1 gram sen.	1	ea
Micrometer Poise Balance, 0.5 gram sen.	1	ea
Drying Oven	1	ea
2 - Burner LPG Stove w/regulator and tank	1	set
Volumetric Flask, 250 ml	5	pcs.
Volumetric Flask, 500 ml	3	pcs.
Liquid Limit Device w/ Grooving Tool	2	sets
Plastic Limit Set	2	pcs.
Rectangular Pan 4" x 2" x 10"	3	pcs.
Square Pan 13" x 13"	1/4	pcs.
Moisture Cans, 3 ounces	3	doz.
Hand Operated Shaker	1	set
Modified Compaction Mold, 1/13.33	2	sets
Modified Compaction Mold, 1/30	1	set
Compaction Rammer, 5.5 lbs.	1	set
Compaction Rammer, 10 lbs.	1	set
Sand Cone Apparatus and Jug	2	sets
Field Density Plate	2	pcs.
4" Steel Grill	2	pcs.
Rubber Mallet	2	pcs.
Sand Scoop (small)	2	pcs.
Sand Scoop (large)	2	pcs.

Yield Buckets, 1/10 cu.ft.	2	pcs.
Yield Buckets 1/2 cu.ft.	1	ea
Tampering Rod	1	ea
Slump Cone w/ Base and Tampering Rod	1	set
Heavy Duty Cylinder Mold with Base	1	set
Cylinder Molds	3	sets
Laboratory Thermometer	1	ea
Stop Watch	1	ea
Spatula	2	pcs.
Field Scale, 10 kilos max.	1	ea
Rectangular Pan 4" x 4" x 10"	2	pcs.
Wire Basket	1	ea
Work Table, 1.20 x 2.40 M	1	ea
Simple Wooden Chairs	6	pcs.
Wooden Office Desks	3	pcs.
Counter with G. I. sink	1	set
Wooden Filing Cabinet	1	ea

LIST OF OFFICE EQUIPMENT
As of October 1979.

Typewriter, 18" Carriage (Olympia)	1	ea
Wooden Office Desk	5	pcs.
Simple Wooden Chairs	6	pcs.
Typist Desks	2	pcs.
Drafting Table	1	ea
Drafting Stool	1	ea
Wooden Filing Cabinet	1	ea

PAY ITEM	DESCRIPTION	ESTIMA SCHEDULED
1.60.2	Provide and Maintain Lab. and Office for Engineer	0.22606
1.60.3	Provide and Maintain one (1) four wheel drive vehicle for Engineer	0.39111
1.60.4	Provide and Maintain one (1) unit utility vehicle for Engineer	0.16948
1.60.4-1	Maintain, Operate and Repair for one (1) unit utility vehicle for Engineer	0.07301
1.605	Laboratory and Office Equipment for Engineer (As Listed)	0.31289
100	Clearing and Grubbing	0.93573
105	Roadway and Drainage Excavation	2.80556
105-4	Excavation of Unsuitable Materials	7.30136
106	Excavation for Structures	0.23955
107	Borrow	22.26691
107-1	Borrow	19.10307
108	Aggregate Sub-base	17.37571
110	Foundation Fill	0.04302
111	Overhaul (300 M.) Freehaul	0.00133
200	Aggregate Base Course	4.85367
302	Medium Curing Cutback Asphalt, Grade MC-1 for Bit. Prime Coat	1.72479
314-1	Aggregate Material for BST (Hot Asphalt Type)	0.90659
314-3	85-100 Penetration Asphalt Cement for BST (Hot Asphalt Type)	3.31335
401	Timber (Detour) Trestle (Superstructure only) on Conc. Pile Bent	2.30754
402.5	Precast Concrete Piles	5.74018
402.5-1	Concrete Test Piles (Furnish and Drive)	0.84740
403	Concrete Railing	0.01825
405	Concrete Class "A" (Miscellaneous)	2.64468
405-1	Concrete Class "A" (Bridge)	0.77244
406	Reinforcing Steel	1.47931
413	0.30 M. Ø Reinforced Concrete Pipes	0.14839
413-1	0.46 M. Ø Reinforced Concrete Pipes	0.31403
413-2	0.60 M. Ø Reinforced Concrete Pipes	0.14731
413-3	0.90 M. Ø Reinforced Concrete Pipes	1.30820
413-4	1.20 M. Ø Reinforced Concrete Pipes	2.10964
500	Riprap and Grouted	0.04172
510	Right of Way Marker	0.08762
	TOTAL	100.0000

THIRTY (30) DAY PERI

CUMULATIVE TOTA

AUGUST 1, 1978 ACTUAL STARTING DATE

SEPTE START C 1

AUG. 31

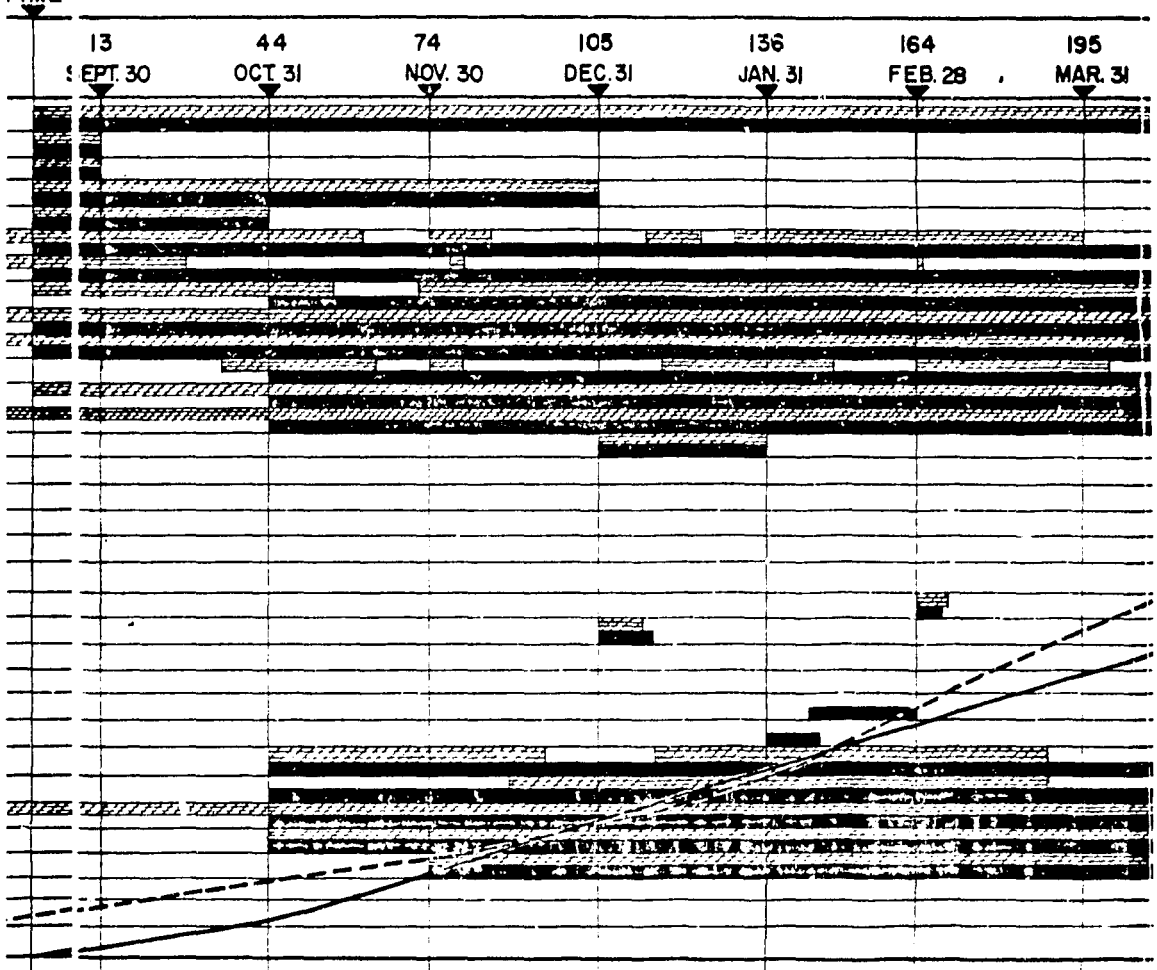
TED % WEIGHT ACCOMPLISHED PROJECT	ITEM	QUANTITY	UNIT COST	AMOUNT
0.18611	82.35	17 Mos.	2,040.00	34,680.00
0.39111	100.00	1	60,000.00	60,000.00
0.16948	100.00	1	26,000.00	26,000.00
0.07301	100.00	4 Mos.	2,800.00	11,200.00
0.31289	100.00	1	48,000.00	48,000.00
0.72937	77.95	31.90 Has.	4,500.00	143,550.00
1.90795	68.01	21,520 CuM	20.00	430,400.00
6.97476	95.53	38,960 Cu.M	28.75	1,120,100.00
0.06492	27.10	1,750 Cu.M.	21.00	36,750.00
28.68543	106.37	116,985 Cu.M.	29.20	3,415,962.00
10.47693	54.84	85,690 Cu.M.	34.20	2,930,598.00
9.80155	56.41	46,765 Cu.M.	57.00	2,665,605.00
0.02008	46.66	165 Cu.M.	40.00	6,600.00
0.00130	98.00	680 Sta.M.	0.30	204.00
0.11733	2.42	12,410 Cu.M.	60.00	744,600.00
		84 M.T.	3,150.00	264,600.00
		1,159 M.T.	120.00	139,080.00
		170 M.T.	2,990.00	508,300.00
		30 Span	11,800.00	354,000.00
0.23894	4.16	1,258 L.M.	700.00	880,600.00
0.42312	50.00	10 Ea.	13,000.00	130,000.00
0.01835	100.00	20 L.M.	140.00	2,800.00
0.18751	7.09	588 Cu.M.	690.00	405,720.00
0.23322	30.20	150 Cu.M.	790.00	118,500.00
0.25039	16.92	32,890 Kgs.	6.90	226,941.00
0.13491	90.96	157 L.M.	145.00	22,765.00
0.1844	58.72	235 L.M.	205.00	48,175.00
0.2737	185.01	62 L.M.	340.00	21,080.00
1.07351	82.07	329 L.M.	610.00	200,690.00
1.25125	59.31	348 L.M.	930.00	323,640.00
		40 Cu.M.	160.00	6,400.00
		286 Ea.	47.00	13,442.00
39.18186		AS OF OCTOBER 25, 1979		
PERCENTAGE TIME ELAPSED= 65.00 %				₱15,340,982.00
ODICAL ACCOMPLISHMENT				
L AMOUNT				

244,

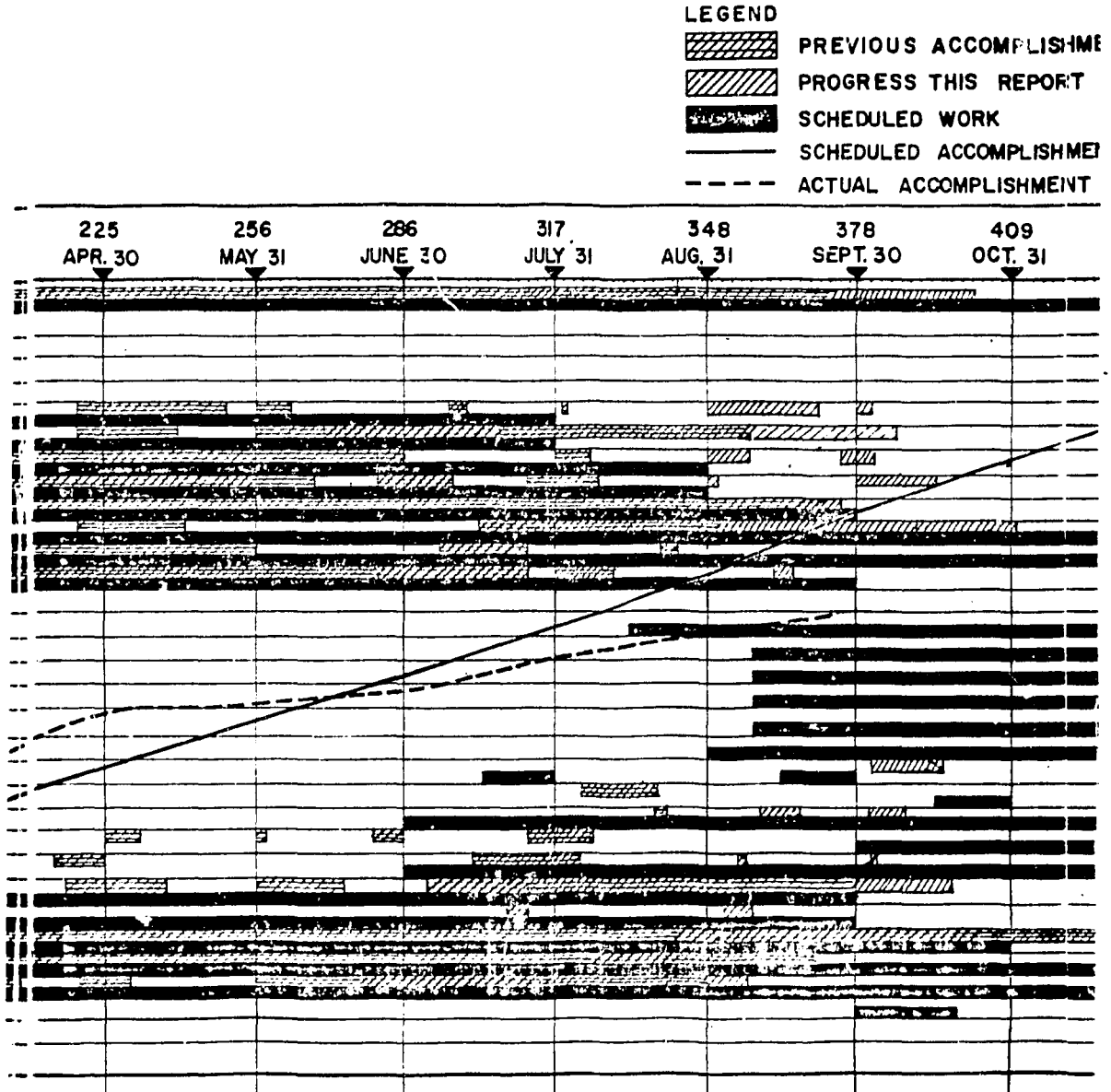
244,

REVISED BAR SCHEDULE OF WORK
OF
PILI-MATAOROC ROAD SECTION

MBER 18, 1978
)F CONTRACT
TIME



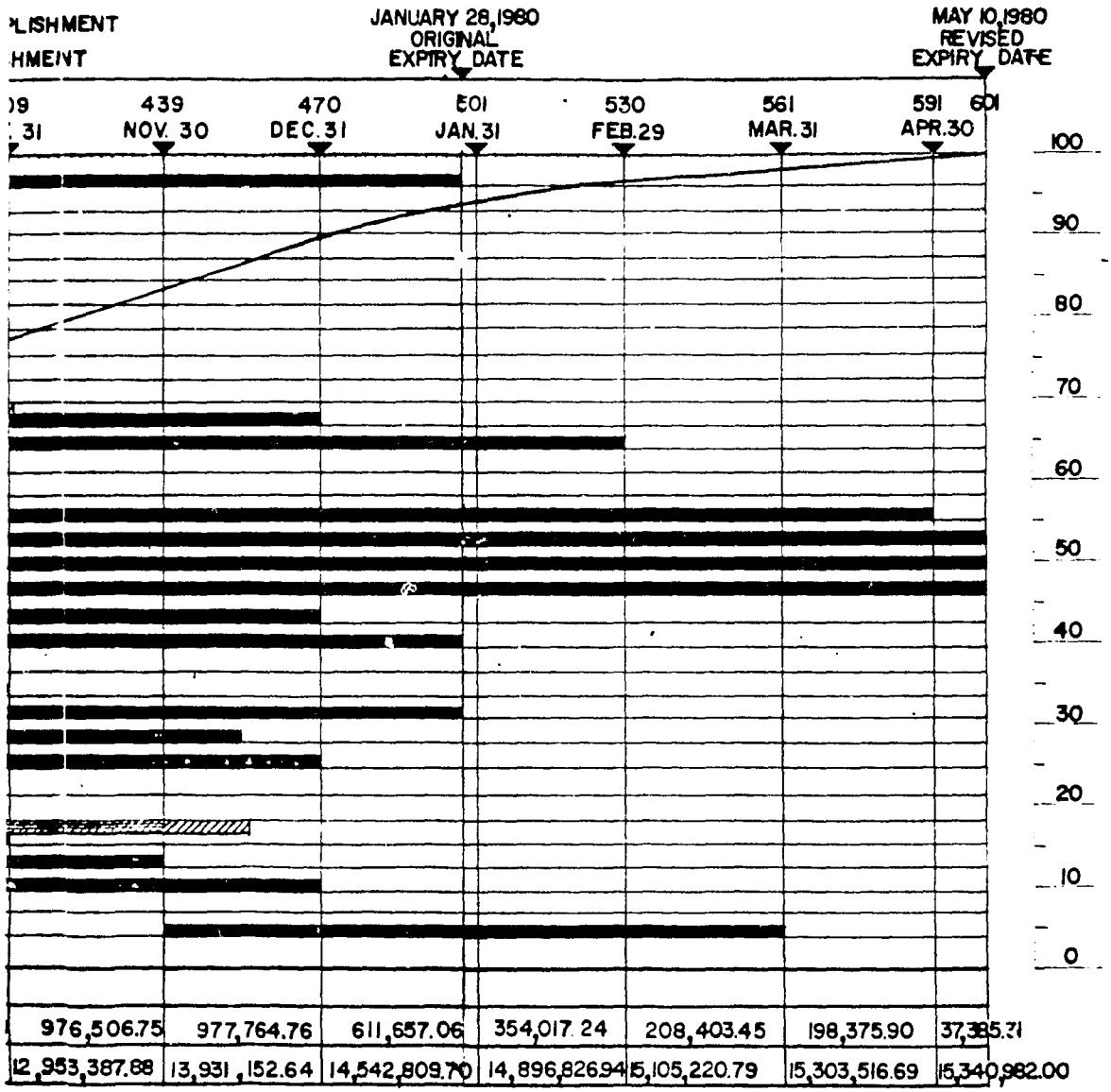
864.17	378,030.01	871,781.84	892,593.29	889,490.62	867,479.36	889,286.62	860,
864.17	622,894.18	1,494,676.02	2,387,269.31	3,276,759.93	4,144,239.29	5,033,525.91	5,894,



0,300.03	889,286.62	860,600.03	1,032,799.54	1,045,645.90	1,234,386.10	1,020,036.00	976,
4,125.94	6,783,412.56	7,644,012.59	8,676,813.13	9,722,459.03	10,956,845.13	11,976,881.13	12,953,

PLISHMENT

EPORT



BICOL RIVER BASIN DEVELOPMENT PROJECT

(ROAD COMPONENTS)

MANPOWER SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVISIO

PACKAGE II

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
		Aug.	Sept.	Oct	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
A. E. BANDELARIA	DEPUTY PROJ. MAG'R.																		
L. D. MAYOR	SR. HWY. ENG'R./R.E.																		
F. G. OBUSAN	SR. BR. ENG'R./R.E.																		
V. B. ZAÑO	SR. LOC. ENG'R./R.E.																		
J. A. TORRALBA	SR. MATLS. ENG'R. R.E.																		
F. C. ROSALES	ADM. OFFICER																		
L. P. JOSE	CLERK/TYPIST																		
T. S. SABABAN	MESS'R. JANITOR																		
																			SUB-TOTAL

SUB-PROJECT No.5, PILI-MATAOROC ROAD

F. G. OBUSAN	SR. BR. ENG R. R.E.	SAME AS KEY STAFF																	
M. B. DELFIN JR.	MATL'S. ENGINEER																		
D. V. FILIO	ENG'R. INSP. (HWY.)																		
T. A. BALDIO	ENG'R. INSP. (BR.)																		
A. P. ESPAÑO	SURVEYOR/DRAFTS'N																		
F. V. YBAROLA	LAB. TECHNICIAN																		
V. L. DE LA CRUZ	CLERK/TYPIST																		
R. CABALLERO	MESS R. JANITOR																		
S. B. JEREMIAS	LABORER																		
																			SUB-TOTAL

Bicol River Basin Development Projects
Secondary and Feeder Roads

PACKAGE II

Minalabac-Hubo Road Project

Sub-Project No. 4

Monthly Construction Report
No. 9

October , 1979

Prepared by:

JUSTINIANO A. TORRALBA
Sr. Materials Engineer/Res. Engr.

Submitted by:

AMADO E. BANDELARIA
Deputy Project Manager

PROGRESS REPORT NO. 9
October , 1979

PROJECT: MINALABAC-ANTIPOLO-HUBO ROAD PROJECT
Sub-Project No. 4, Package II, BRBDP

1. GENERAL

Activities during the month for the Secondary Road consisted of stockpiling of item 107, borrow, at De Los Santos borrow pit at Sitio Compasan, Sta. 7 + 250; Hauling spreading and rolling of common borrow materials from Sta. 5 + 800 to Sta. 8 + 650 (first layer); Stockpiling and hauling of item 108 sub-base materials to Sta. 5 + 500 to 5 + 575; Excavation and installation of RC Pipes; construction of left lane of double box culvert at Sta. 6 + 923.50.

For feeder roads, activities were confined mostly to feeder road # 401 (Lupi, San Fernando-Antipolo Section) from Sta. 0 + 300 to Sta. 5 + 500 as this road did not suffer much from the calamity (typhoon pepang) which struck last month except for inundation at some sections, Road #401 was practically workable this month. Due to rains every now and then, workability on feeder roads #402 and 403 almost seem nil although times are when roadway and drainage excavation were also undertaken.

2. PROGRESS

Percentage of accomplishment this month 54.49 %
Percentage of time elapsed 47.62 %

Aside from hauling, spreading, rolling and compacting from Sta. 5 + 800 to Sta. 8 + 650, Secondary Road ,

The following are accomplished this month:

RCPipes at Sta. 8 + 055 - 14 pcs. 60m. diameter

Sta. 8 + 077 - 14 pcs. 60m. diameter

Sta. 8 + 222 - 13 pcs. 60m. diameter

Sta. 8 + 459 - 12 pcs. 60m. diameter

RCBC - double barrel at Sta. 6 + 923.80 - Completed except the left wing walls and the left apron.

For Feeder Roads the following were accomplished this month:

<u>Feeder Road #401 (Lupi-San Fernando)</u>

a. Item 105 - Roadway excavation at Sta. 0 + 300 to Sta. 1 + 400, Sta. 1 + 700 to Sta. 2 + 300.

b. Item 107 - Borrow (3rd & 4th layer) from Sta. 0 + 055 to Sta. 0 + 250, Sta. 2 + 650 to Sta. 5 +000.

c. Item 413 - RCPipes at Sta. 0 + 175 - .60m diameter

Sta. 0 + 425 - .90m diameter

Sta. 0 + 713.36 - 1.20m. diameter

Sta. 1 + 075 - .90m diameter

Sta. 1 + 357 - .90m diameter

Sta. 2 + 051 - .60m diameter

Sta. 2 + 326.6 - .90m diameter

<u>Feeder Road #402 (Hubo-Baliwag Nuevo)</u>

a. Checking of road grade and centerline

b. Fabrication of RCPipes

Feeder Road #403 (Hubo-Bagolatao)

a. Fabrication of RCPipes

b. Roadway and drainage excavation from Sta. 6 + 900 to Sta. 7 + 500.

BRIDGES

No activity on bridges along Secondary Road except partial delivery of eight concrete piles for both Balogo & Mata bridges.

SECONDARY ROADS - Laboratory Test Reports-As of Oct.'79.

Test	Item	Previous	This month	T O T A L
Grading	105	11	-	11
PL & LL	105	11	-	11
Compaction	105	11	-	11
F. Density	105	52	-	52

Test	Item	Previous	This month	T O T A L
Grading	106	1	-	1
PL & LL	106	1	-	1
Compaction	106	1	-	1
F. Density	106	3	-	3

Test	Item	Previous	This month	T O T A L
Grading	107	55	2	57
PL & LL	107	55	2	57

Compaction	107	55	2	57
F. Density	107	355	4	359

Test	Item	Previous	This month	T O T A L
Grading	108	7	1	8
PL & LL	108	7	1	8
Compaction	108	7	1	8
F. Density	108	15	4	19

Test	Item	Previous	This month	T O T A L
Grading	110	1	-	1
PL & LL	110	1	-	1
Compaction	110	1	-	1
F. Density	110	1	-	1

Test	Item	Previous	This month	T O T A L
Grading FA	405"A"	2	-	2
Grading CA	405"A"	2	-	2
Sp. Gravity FA	405"A"	1	-	1
Sp. Gravity CA	405"A"	1	-	1
Absorption	405"A"	1	-	1

Design Mix	405"A"	2	-	2
Conc. Report	405"A"	6	-	6

Cert. on Water used for Conc. Class "A" & "C".

Test	Item	Previous	This month	TOTAL
Grading FA	413	2	-	2
Grading CA	413	2	-	2
Sp.Gravity FA	413	1	-	1
Sp. Gravity CA	413	1	-	1
Absorption	413	1	-	1
Design Mix	405"C"	1	-	1

TEST REPORT ON COMPRESSIVE STRENGTH "A"
Sta. 6 + 923.02 (Half Lane)

Date Sampled	Date Tested	Age in days	1st Trial	2nd Trial	Average	REMARKS
7/ 4/79	8/9/79	36	4260	3078	3669	Passed
7/ 9/79	8/9/79	31	3078	2394	2736	Failed
7/16/79	-do-	24	3187	2783	2985	Satisfactory
7/16/79	-do-	24	2825	2581	3203	Passed
7/ 9/79	-do-	31	3016	4882	3949	Passed

(SGD) ROMEO A. SANARES
(Materials Test Engineer II)
Chief Quality Control Sec.

NOTE: Necessary Corrections/Adjustments were made in order to attain the required Compressive Strength.

TEST REPORT ON COMPRESSIVE STRENGTH "C"

DATE SAMPLED	Date Tested	Age in days	COMPRESSIVE STRENGTH			REMARKS
			(Dia.) Size	77days	28 days	
1 / 18 / 79	4/5/79	77	.60 Ø	4107	3440	Satisfactory
-do-	-do-	77	-do-	3421	2870	Failed
-do-	-do-	77	-do-	3666	3070	Satisfactory
1 / 22 / 79	-do-	73	.90mØ	3833	3232	-do-
-do-	-do-	73	-do-	3944	3241	-do-
-do-	-do-	73	-do-	3037	2561	Failed
2 / 3 / 79	-do-	61	-do-	3575	3077	Satisfactory
-do-	-do-	61	-do-	4267	3672	-do-
-do-	-do-	61	-do-	3887	7345	-do-
2 / 12 / 79	-do-	52	.60mØ	4694	4161	Satisfactory
-do-	-do-	52	-do-	4145	3675	-do-
-do-	-do-	52	-do-	3885	3444	-do-
2 / 21 / 79	-do-	43	.20mØ	4266	3907	-do-
-do-	-do-	43	-do-	4044	3703	-do-
-do-	-do-	43	-do-	3880	3553	-do-
3 / 11 / 79	-do-	35	.60mØ	2808	2674	Failed
-do-	-do-	35	-do-	3151	3001	Satisfactory
-do-	-do-	35	-do-	3435	3271	-do-

(SGD) ALICE O. LAGRIMAS
Materials Engineer
Provincial Engineers' Office

Laboratory Test Reports

FEEDER ROADS

#401 (Lupi-San Fernando Road

Test	Item	Previous	This month	TOTAL
Grading	105	21	2	23
PL & LL	105	21	2	23
Compaction	105	21	2	23
F. Density	105	100	10	110

Test	Item	Previous	This month	T O T A L
Grading	107	6	4	10
PL & LL	107	6	4	10
Compaction	107	6	4	10
F. Density	107	10	14	24

#402 (Hubo-Baliwag Nuevo)

Test	Item	Previous	This month	T O T A L
Grading	107	3	-	3
PL & LL	107	3	-	3
Compaction	107	3	-	3
F. Density	107	22	-	22

#403 (Hubo-Bagolatao)

Test	Item	Previous	This month	TOTAL
Grading	105	22	8	30
PL & LL	105	22	8	30
Compaction	105	22	8	30
F. Density	105	110	20	130

Secondary Road

RCP INSTALLED AS OF OCTOBER 25, 1979

STATION	Scheduled		INSTALLED	BALANCE
	SIZE	NO. OF PIECES		
1 + 170.52	48" Ø	18 pcs.	48" Ø-18pcs.	None
1 + 475.00	36" Ø	18 pcs.	35" Ø-18pcs.	None
1 + 875.00	36" Ø	17 pcs.	36"Ø-17pcs.	None
2 + 143.82	24" Ø	18 pcs.	24" Ø-18pcs.	None
2 + 652.12	24" Ø	13 pcs.	24" Ø-13pcs.	None
2 + 853.72	12" Ø	15 pcs.	24" Ø-15pcs.	None
2 + 900.00	24" Ø	14 pcs.	24" Ø-14pcs.	None
3 + 111.44	24" Ø	15 pcs.	36" Ø-15pcs.	None
3 + 389.45	24" Ø	12 pcs.	24" Ø-12pcs.	None
3 + 525.00	-	-	36" Ø-12pcs.	None
3 + 787.00	36" Ø	13 pcs.	36" Ø-13pcs.	None
3 + 910.52	24" Ø	14 pcs.	24" Ø-14pcs.	None
4 + 144.13	24" Ø	13 pcs.	24" Ø-13pcs.	None

4 + 369.02	24" Ø	13 pcs.	24" Ø - 13pcs.	None
4 + 854.15	-	-	36" Ø - 13 pcs.	None
4 + 925.00	24" Ø	15 pcs.	36" Ø - 14 pcs.	None
5 + 183.15	-	-	24" Ø - 12 pcs.	None
6 + 225.00	24" Ø	16 pcs.	24" Ø - 16 pcs.	None
6 + 425.00	24" Ø	15 pcs.	24" Ø - 15 pcs.	None
6 + 677.00	24" Ø	15 pcs.	24" Ø - 15 pcs.	None
6 + 755.00	36" Ø	16 pcs.	36" Ø - 16 pcs.	None
7 + 250.00	48" Ø	18 pcs.	48" Ø - 18 pcs.	None
8 + 055	24" Ø	14 pcs.	24" Ø - 14 pcs.	None
8 + 065	36" Ø	15 pcs.	-	15 pcs.
8 + 077	24" Ø	14 pcs.	24" Ø - 14 pcs.	None
8 + 222.00	24" Ø	13 pcs.	24" Ø - 13 pcs.	None
8 + 459.00	24" Ø	12 pcs.	24" Ø - 12 pcs.	None
8 + 650.00	24" Ø	14 pcs.	24" Ø - 6 pcs.	8 pcs.

Feeder Road #401 (Lupi-San Fernando)

STATION	SIZE	INSTALLED
0 + 1.75	24" Ø	12 pcs.
0 + 425	36" Ø	11 pcs.
0 + 713.36	48" Ø	7 pcs.
1 + 075	48" Ø double	19 pcs.
1 + 357	36" Ø	12 pcs.
2 + 051	36" Ø	12 pcs.
Sta. 2 + 236.60	36" Ø double	6 pcs.
4 + 593.68	36" Ø	4 pieces

Feeder Road 403 (Hubo-Bagolatao)

STATION	SIZE	INSTALLED
4 + 593.68	36" Ø	6 pcs.

LIST OF OFFICE EQUIPMENT

As of October, 1979

Typewriter 19" Carriage (ADLER)	1	ea
Wooden Office Desk	3	pcs.
Simple Wooden Chair	5	pcs.
Typing Table	1	pc.
Drafting Table	1	pc.

Lab. Report No. 9-065-79

Minalabac-Antipolo-Hubo Road (Feeder Roads 401, 402 & 403) Minalabac, Cam. Sur

Pacol, Naga City — Pacol, Naga City

Deep Well — Contractor's Bodega

ANACLETO ABOGA, MLT. - IPI — A.V. BANZON, Project Manager, Genaro Reyes Const.

7/16/79	RCP 36" Ø	V. MORAN	10/25/79	81	4,664	4,567	4,625	Passed Compressive strength requirement.
8/17/79	RCP 24" Ø	-do-	-do-	49	2,736	2,994	2,865	Failure(Make necessary adjustment/corrections to attain required compressive strength)
8/18/79	RCP 36" Ø	-do -	-do-	48	3,763	4,555	1,159	Passed compressive strength requirement.
9/3/79	RCP 36" Ø	-do-	-do-	32	4,781	5,224	5,003	-do-

(SGD) ROMEO A. SANARES
Materials Engineer II
Chief, Quality Control Section

Oct. 8, 1979

HEAVY EQUIPMENTS

As of October, 1979

Secondary Roads:

a. Bulldozer:

1 unit D-8oH (Komatsu with 2 rippers)

b. Dump Trucks:

2 Ford (6 wheelers)

2 Isuzu (10-wheelers)

1 Isuzu (6 wheelers)

c. Roller:

1 Vibratory Compactor, Dynapac(Self propelled).

d. Loader:

2 Isuzu Loaders (JH-60, with Kimco body)

e. Grader:

1 unit Caterpillar

f. Water Truck:

1 unit with truck tractor

Feeder Road Nos. 401, 402 & 403:

a. Bulldozer

2 units Caterpillar (D-8)

1 unit Komatsu (D-80A, with 2 rippers)

b. Dump Truck:

5 units Isuzu (6 wheelers)

c. Roller:

1 unit self-propelled Pneumatic Roller

d. Loader:
   2 units (Caterpillar)
e. Grader:
   2 units (Caterpillar)
f. Water truck
   1 unit on top of 6-wheeler truck

COMMENTS AND RECOMMENDATIONS

After typhoonPepang, which inundated a portion of our Minalabac-Antipolo-Hubo Secondary Road, specifically at Sta. 0 + 900 to Sta. 2 + 250, eroding the sides and washing out of top materials within these stations, the contractor has not resumed activity on this section of damaged road as he (contractor) is still preparing quantity sheets, cross sections, computations and other data pertinent to his claim for typhoon damages. Meanwhile ,they are concentrating their activities at Sta. 5 + 800 to Sta. 8 + 650.

For the sections which was inundated from Sta. 0 + 900 to Sta. 2 + 500, the consultants have previously recommended, additional box culverts and raising of grade, and riprapping of the sides to prevent further erosion. As observed, the flood in this area is a yearly occurrence, and the road being in a flood plain, the possible solution for this road to remain passable even during heavy rains and floods, is the raising of grade to about .50 m above the designed grade and riprapping of the sides. Grouted riprapping on sections subjected to strong current is also recommended.

Activities on the feeder road is quite satisfactory especially in their roadway and drainage excavation work as well as their work on embankment. But one problem that might arise is that they have not found a good source of item 108 base materials nearby. If they can't find one, they will be forced to get them from far away sources of approved quality.

PROJECT: MINALABAC-ANTIPOLO-HUBO ROAD PROJECT
Sub-Project No. 4, Package II, BRBDP

WEATHER REPORT

Date-1979		Weather	Remarks	Time Extension Recommended
Sept.	26	Fair	Workable	None
	27	Fair	Workable	None
	28	Fair to cloudy w/ PM rain shower	Workable	None
	29	Rainy	Unworkable	One (1) day
	30	Cloudy to int. rain	Unworkable	One (1) day
Oct.	1	Cloudy-grounds still muddy	Unworkable	One (1) day
	2	Cloudy to fair	Workable	None
	3	Cloudy to fair	Workable	None
	4	Cloudy to Int. rain	Unworkable	One (1) day
	5	Rainy	Unworkable	One (1) day
	6	Cloudy to Int. rain	Unworkable	One (1) Day
	7	Cloudy-grounds still muddy	Unworkable	One (1) Day
	8	Fair	Workable	None
	9	Fair w/ 5:00 PM heavy rain	Workable	None
	10	Fair	Workable	None
	11	Fair	Workable	None
	12	Rainy AM-Cloudy PM	Unworkable	One (1) day
	13	Int. rain	Unworkable	One (1) day
	14	Cloudy grounds still saturated	Unworkable	One (1) Day
	15	Cloudy to fair	Workable	None
	16	Cloudy	Workable	None
	17	Fair	Workable	None
	18	Fair	Workable	None
	19	Fair	Workable	None
	20	Fair	Workable	None
	21	Cloudy to heavy rain	Unworkable	One (1) day
	22	Int. rain	Unworkable	One(1) day
	23	Int. rain to heavy rain	Unworkable	One (1) day
	24	Cloudy w/ morning shower	Workable	None
	25	Fair	Workable	None

TOTAL EXTENSION OF TIME RECOMMENDED THIS MONTH-- 13 days
TOTAL EXTENSION OF TIME RECOMMENDED PREVIOUSLY-- 45 days
T O T A L - - - - - - - - - - - - - 58 days

CENARO G. REYES CONSTRUCTION, COMPANY
Minalabac, Camarines Sur

LIST OF PERSONNEL
As of October 1979

	NAME	POSITION	QUALIFICATION
1.	Antonio Banzon	Project Manager	Civil Engineer
2.	Rogelio Gonzales	Project Engineer	Civil Engineer
3.	Marcos Galban	Foreman	Experienced
4.	Maximo Mendoza	Foreman	Experienced
5.	Armando Bidania	Instrumant Man	Experienced
6.	Bong Bidania	Survey Aide	Expreienced
7.	Dominador Sabado	Survey Aide	Experienced
8.	Danilo Nicolas	Survey Aide	Exprereinced
9.	Orlando Dacuzan	Survey Aide	Experianced
10.	Jolito Cambe	Survey Aide	Experienced
11.	Domingo Voluntad	Time Keeper	Experienced
12.	Pedro Suyat	Overseer	Experienced
13.	Armstin Perene	Mtorpool Guard	Experienced
14.	Luciano Lavandero	Guard	Experienced
15.	Francisco Magnate	Guard	Experienced
16.	Andress Rodeno	Guard	Experienced
17.	Vicente Armellas	Guard	Experienced
18.	Leonardo Valentin	Grader Operator	Experienced

19.	Ruben Macapagal	Bulldozer Operator	Exprienced
20.	Baltazar Pansito	Payloader Operator	Experienced
21.	Reynaldo Arcinas	Bulldozer Operator	Experienced
22.	Mario Reyes	Dump Truck Driver	Experienced
23.	Fernando Castor	Dump Truck Driver	Experienced
24.	Ruben Jacobe	Dump Truck Driver & Wobble Operator	Experienced
25.	Sixto Simmon	Dump Truck Driver	Experienced
26.	Ricardo Macapagal	-Bulldozer Operator	Experienced
27.	Juan Cambe	Bulldozer Operator	Experienced
28.	Fernando Alojada	Mechanic	Experienced
29.	Leonardo Sabado	Helper Mechanic	Experienced
30.	Box de la Cruz	Helper Mechanic	Experienced

POLYTRADE CONSTRUCTION, INC.
Field Office
Minalabac, Camarines Sur

LIST OF PERSONNEL
As of OCTOBER, 1979

I. TECHNICAL STAFF

NAME	POSITION	QUALIFICATION
1. Perez, Teodoro	Project Manager	Civil Engineer
2. Norberto, Milagros	Project Engineer	Civil Engineer
3. Espeso, Nardo	Project Supervisor	Civil Engineer
4. Sauco, Regc	Shop,Trans,& Equipt. Supervisor	Experienced
5. Parillas, Zacarias	Survey/Construction Foreman	Experienced
6. Rojano, Silvestre	Materials Lab. Tech.	Experienced

II. ADMINISTRATIVE STAFF

7. Cruz, Nestor	Administrative Officer	B S B A
8. Reyes, Efren	Comptroller	Experienced
9. Sauco, Delfin	Misc. Services	-do-
10. Polvolriza, Armando	Warehouseman	-do-
11. Sauco, Linda	Accounting Clerk	-do-
12. Tolledo, Armi M.	Payroll Clerk	B S B A
13. Buenaventura,Godofredo	TimeKeeper-POL Incharge	Experienced
14. Candelaria, Arnulfo	Cheker	-do-
15. Tragante,Frisco	Watchman	-do-
16. Pellosis, Eduardo	Watchman	-do-

III. MECHANICAL DEPARTMENT

17. Macawili, Arturo	Chief Mechanic	Experienced
18. Caisip, Rogelio	Mechanic	-do-
19. Torsar, Francisco	Tireman	-do-
20. Dinlas, Cedillo	Electrician	-do-
21. Presente, Ernesto	Lubeman	-do-

IV. SURVEY & LAB. TEAM

22.	Torre, Bayani de la	Chainman	Experienced
23.	Mabeza, Edwin	Laboratory Aide	-do-

V. HEAVY EQUIPMENT OPERATORS

24.	Fabricante, Gregorio	Loader Operator	Experienced
25.	Villavicencio, Virgilio	Dozer Operator	-do-
26.	Lozano, Teotimo	Grader Operator	-do-
27.	Delorino, Eladio	Dynapac Operator	-do-
28.	Balonzo, Luleito.	Dozer Operator	-do-
29.	San Buenaventura, Romeo	Welder	-do-
30.	Hernandez, Teodoro	Loader Helper	-do-

VI. DRIVERS

31.	Adao, Numeriano	DT-Driver	Experienced
32.	Julo, Norberto	DT-Driver	-do-
33.	Balong, Rodelio	DT-Driver	-do-
34.	Lipa, Pio Jr.	DT-Driver	-do-
35.	Palmas, Ricardo	DT-Driver	-do-

VII. MISC. STRUCTURES

36.	Paulo, Armando	Carpenter	Experienced
37.	Bartolome, Candido	-do-	-do-
38.	Labrador, Salvador	-do-	-do-
39.	Abrejes, Romeo	Mason	-do-
40.	Eballar, Luis	-do-	-do-
41.	Diborde, Roberto	-do-	-do-
42.	Pellosis, William	Steelman	-do-
43.	Llaban, Quirino	-do-	-do-
44.	Pabilando, Rodolfo	-do-	-do-
45.	Compas, Ernesto	Maintenance	-do-

46. Visaya, Bartolome	Maintenance	Experienced
47. Valenzuela, Armando	-do-	-do-
48. Abrejes, Ramon	Laborer	-do-
49. Palagayao, Rogelio	-do-	-do-
50. Llorente, Salvador	-do-	-do-
51. Encinas, Anatalio	-do-	-do-
52. Santiago, Romeo	-do-	-do-
53. Cruz, Roberto de la	-do-	-do-
54. Asis, Leoncio de	-do-	-do-
55. Benedicto, Crispin	-do-	-do-
56. Duvas, Celedonio	-do-	-do-
57. Vergara, Mateo	-do-	-do-

Annex "C"

LIST OF LABORATORY EQUIPMENTS
As of October 1979

8 - inch Brass Mesh 4"	1	pc.
8 - inch Brass Mesh 3"	1	pc.
8 - inch Brass Mesh 2"	1	pc.
8 - inch Brass Mesh 1½"	1	pc.
8 - inch Brass Mesh 3/4"	1	pc.
8 - inch Brass Mesh 3/8"	1	pc.
8 - inch Brass Mesh No. 8	1	pc.
8 - inch Brass Mesh No. 14	1	pc.
8 - inch Brass Mesh No. 16	1	pc.
8 - inch Brass Mesh No. 30		pc.
8 - inch Brass Mesh No. 40	1	pc.
8 - inch Brass Mesh No. 50	1	pc.
8 - inch Brass Mesh No. 60	1	pc.
8 - inch Brass Mesh No. 100	1	pc.
8 - inch Brass Mesh No. 200	1	pc.
Sample Splitter 2½ Chute width	1	set
Sample Splitter 1½ Chute width	1	set
Heavy Duty solution balance 20 kg. cap Ohaus T-11190	1	set
Triple Beam balance 0.1 sea	1	set
Volumetric Flash 500 ml.	1	pc.
Liquid Limit Device w/ grooving tool	1	set
Plastic Limit	1	set
Cent-O-Gram balance 0.01 sea	1	set
Rectangular Pan 4" x 4" x 10"	2	pcs.
Rectangular Pan 5" x 5" x 18"	1	pc.
Square Pan 24" x 24"	1	pc.
Modified Compaction Mold 1/13.33	1	pc.
Modified Compaction Hammer 10 lbs.	1	pc.

Modified Compaction Hammer 5.5 lbs.	1	pc.
Wash bottle 1,000 ml.	1	pc.
Field Density set	1	set
Yield Bucket	1	pc.
Oven, Electric Memmert #760190	1	unit
Harvard Trip Balance Ohaous	1	set
8 - inch Brass Sieve No. 4	1	unit
Spring Balance 12 Kilos Cap.	1	unit
Compaction Mold, 1/30 cu. ft.	1	set

List of Laboratory Equipments as of September 25, 1979

Drying Pan, 18"x18"	6	pcs.
Wire Basket	1	pc.
Cylinder Molds	2	pcs.
8 - inch Sieve Brass Pan	1	pc.
8 - inch Pan Brass Cover w/ ring	1	pc.
Slump Cone w/ Tampering Rod	1	pc.
Work Table, 1.20 x 2.40 m.	1	ea
Simple Wooden Chair	5	pcs.
Corenter with G.I sink	1	set
Wooden Filing Cabinet	1	ea
Stapler	1	ea
Puncher	1	ea

NOTE:

These Laboratory equipments are now available at the project as per check and audit made by Engr. Sanares, Chief Quality Control Section, PMO, and Representative of Auditor's Office on March 23 and 26, 1979 respectively.

BICOL RIVER BASIN DEVELOPMENT PROJECT

(ROAD COMPONENTS)

MANPOWER SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVISION

PACKAGE II

NAMES	POSITION			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	M
		DEC.	JAN.	FEB.	MAR.	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC.	JAN.	FEB.	MAR	APR	MAY	JUN.	JUL.	AUG	MO
A.E. BANDELARIA	DEPUTY PROJ. MGR.																						
L.D. MAYOR	SR. HWY. ENGR./R.E.																						
F.G. OBUSAN	SR. BR. ENGR./R.E.																						
V.B. ZANO	SR. LOC. ENGR./R.E.																						
J.A. TORRALBA	SR. MATL'S. ENGR./R.E.																						
E.C. ROSALES	ADM. OFFICER																						
L.P. JOSE	CLERK TYPIST																						
T.S. SABABAN	MES'R/JANITOR																						
																						SUB—TOTAL	14

SUB-PROJECT NO. 4, MINALABAC—ANTIPOLO—HUBO ROAD

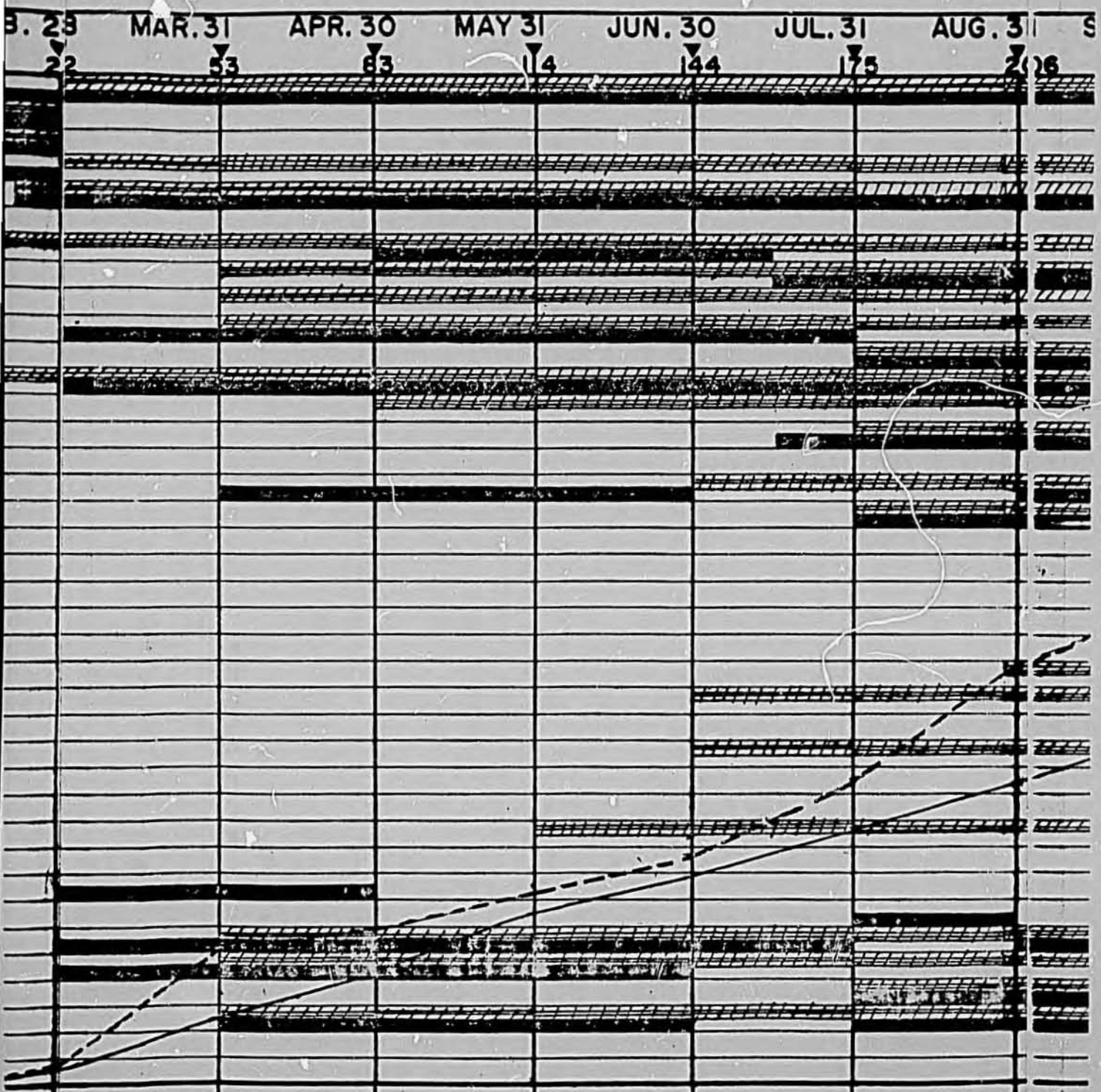
J.A. TORRALBA	SR. MAT'LS. ENGR./R.E.	DEC. 1-16		FEB. 1						(INCLUDED IN KEY STAFF)													1
V.E. PARIS	ENGR. INSP. (HWY)																						1
E.C. FORTALEZA	ENGR. INSP. (BRIDGE)																						1
C.C. ORTIZ	MAT'L ENGR.																						1
A.E. BANDELARIA	SURVEYOR/DRAFTSMAN																						1
A.M. ABOGA	LAB. TECHNICIAN																						1
M.L. SANTIANO	CLERK/TYPIST																						1
F.B. SOBREVILLA	SERVICE DRIVER																						1
G. LABUTAP	JANITOR/MESSENGER																						1
R.M. ABANTE	LABORER																						1
																						SUB—TOTAL	17

ITEM NO.	DESCRIPTION
1.60.2	Provide and Maintain Office & Laboratory for the Engr.
1.60.3	Provide one (1) Unit four Wheel Drive for the Engineer
1.60.4	Provide one(1) Unit Utility Vehicle for the Engineer
1.60.5	Laboratory and Office Equipment for Engr. (as listed)
100	Clearing and Grubbing
103-1(Fr. 401)	Removal of Bridge
105 (Secondary)	Roadway and Drainage Excavation
105(Fr.401,402)	Roadway and Drainage Excavation
105(Fr. 403)	Roadway and Drainage Excavation
106	Excavation for Structures
106 (Fr.401, 402,403)	Excavation for Structures
107(Secondary)	Borrow
107(Fr. 401,402)	Borrow
108(Secondary)	Aggregate Sub-base
108(Fr.401,402,403)	Aggregate Sub-base
110	Foundation
111	Overhaul (300 m. Free haul)
200	Aggregate Base Course
302	Medium curing Cut-Back Asphalt, Grade MC-1 for Blt. Pr. Coat
314-1	Aggregate Material for BST, (Hot Asphalt Type)
314-3	85-100 Penetration Asphalt Cem. for BST(Hot Asphalt Type)
401(Fr. 401)	Timber(Detour) Trestle (Superstruc. only on Conc. Pile Bent)
402-2.5	Precast Concrete Piles
402-2.5 a	Concrete Test Piles (Furnish and Drive)
403	Concrete Railings
405	Concrete Class "A" (Miscellaneous)
405-1	Concrete Class "A" (Bridge)
405-1(Fr. 401)	Concrete Class "A" (Bridge)
406 (Secondary)	Reinforcing Steel
406(Fr.401,402,403	Reinforcing Steel
413-1	0.30 M. Ø Reinforced Concrete Pipe
413-1(Fr. 401)	0.30 M. Ø Reinforced Concrete Pipe
413-2	0.60 M. Ø Reinforced Concrete Pipe
413-3(Secondar)	0.90M. Ø Reinforced Concrete Pipe
413-3(Fr. 401,402,403)	0.90M. Ø Reinforced Concrete Pipe
413-4	1.20 M. Ø Reinforced Concrete Pipe
500	Riprap and Grouted
510	Right-of-Way Marker
	TOTAL

FEBRUARY 7, 1979
START OF CONTRACT
TIME

) N	ESTIMATED % WEIGHT SCHEDULED	ACCOMPLISHED PROJECT	ITEM %	QUANTITY	UNIT COST	AMOUNT	FEB.
tr e Engr.	0.35562	0.15805	44.44	18 MO.	₱2,400/mo.	₱43,200.00	
gi eer	0.59270	0.59270	100		Lump Sum	72,000.00	
ne r	0.26342	0.26342	100		Lump Sum	32,000.00	
s listed)	0.59270	0.59270	100		Lump Sum	72,000.00	
	1.02982	1.01437	99.5	27.8 Ha.	4,500.00	125,100.00	
	0.02099			1 Each	₱2,550.00	2,550.00	
	2.55192	2.47536	97	15,500 Cu.m.	20.00	310,000.00	
	2.37584	2.25705	95	15,190 Cu.m.	19.00	288,610.00	
	9.84153	9.49708	96.5	74,720 Cu.m.	16.00	₱1,195,520.00	
	0.15802	0.15249	96.5	770 Cu.m.	24.93	19,196.10	
	0.23544	0.05886	25	1,300 Cu.m.	22.00	28,600.00	
	26.98783	21.59026	80	02,450 Cu.m.	32.00	3,278,400.00	
	11.48326	6.54546	57	44,710 Cu.m.	31.20	1,394,952.00	
	11.94272	4.29938	36	25,700 Cu.m.	56.45	1,450,765.00	
	8.77055			19,730 Cu.m.	54.00	1,065,420.00	
	0.05968	0.03103	52	145 Cu.m.	50.00	7,250.00	
	0.05445	0.05445	100	22,050 Sta.m.	0.30	6,615.00	
	3.85876			7,500 Cu.m.	62.50	468,750.00	
fo Bit. Pr. Coat	1.00760			51 M.T.	2,400.00	122,400.00	
Ty pe)	0.57624			700 Cu.m.	100.00	70,000.00	
As phalt Type)	2.01520			102 M.T.	2,400.00	244,800.00	
Pile Bent)	0.39514			4 SPANS	12,000.00	48,000.00	
	2.31451	0.24534	10.6	396 L.M.	710.00	281,160.00	
	0.44453	0.33340	75	4 Each	13,500.00	54,000.00	
	0.08853			71.70 L.M.	150.00	10,755.00	
	2.76620	0.82985	30	487	690.00	336,030.00	
	1.04662			163 Cu.m.	780.00	127,140.00	
	0.08563			14 Cu.m.	743.00	10,402.00	
	1.44226	1.05718	73.3	25,765 Kgs.	6.80	175,202.00	
	0.22416			3,890 Kgs.	7.00	27,230.00	
	0.03820			29 L.M.	160.00	4,640.00	
	0.00691			6 L.M.	140.00	840.00	
	-1.02810	0.72173	70.2	362 L.M.	345.00	124,890.00	
	0.49000	0.71050	145	96 L.M	620.00	59,520.00	
	1.45122	0.30476	21	289 L.M.	610.00	176,290.00	
	2.80794	0.701985	25	379 L.M.	900.00	341,100.00	
	0.23461			190 Cu.m.	150.00	28,500.00	
	0.36115			914 L.M.	48.00	43,872.00	
	100.0000	54.487405 % AS OF OCTOBER, 1979				₱12,147,699.10	
	MONTHLY ACCOMPLISHMENT						₱181,000.
	CUMULATIVE TOTAL AMOUNT						

BAR SCHEDULE OF WORK
OF
MINALABAC – ANTIPOLO – HUBO R

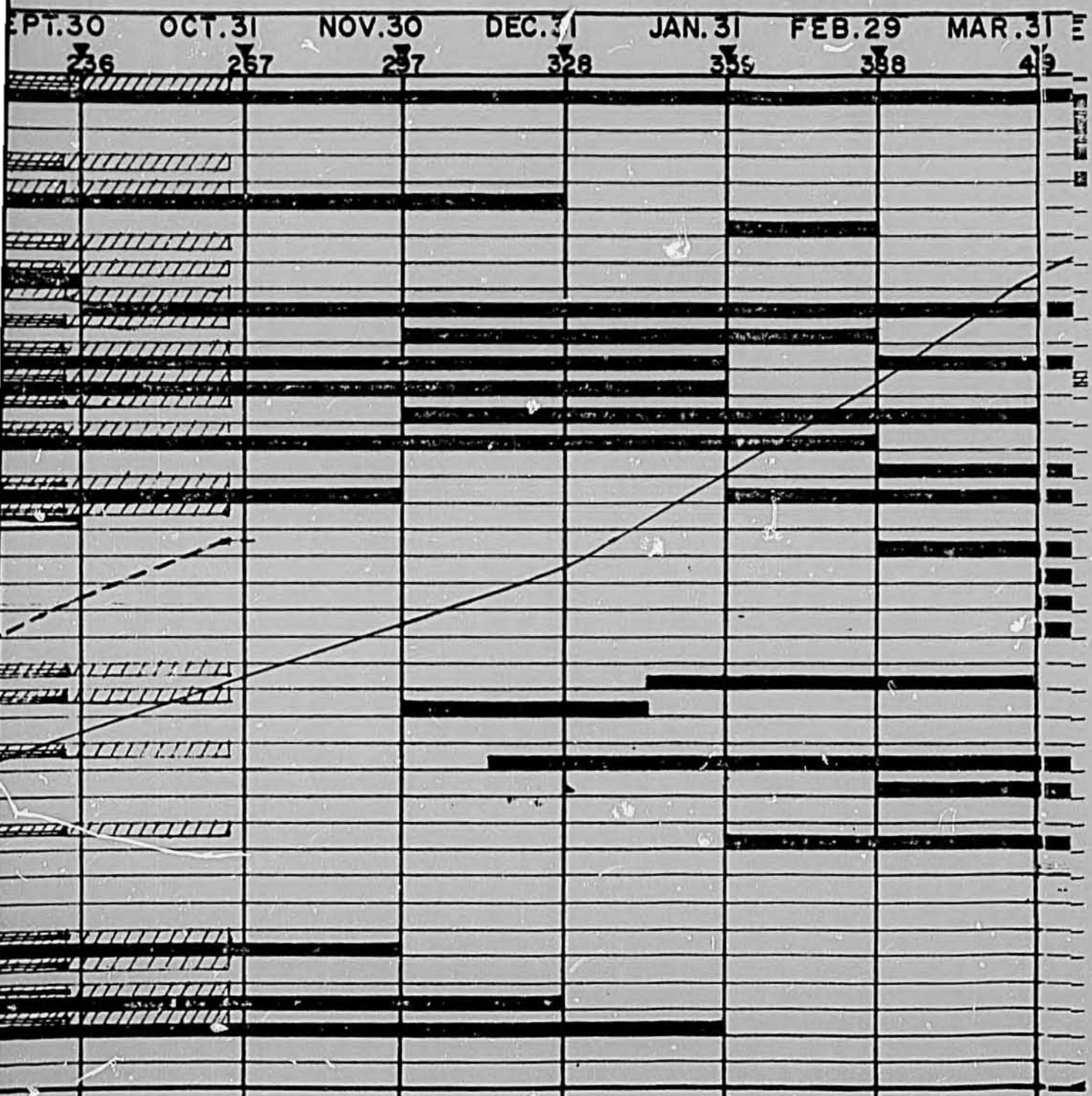


0.7	581,874.79	553,935.08	742,224.41	431,243.32	523,565.63	606,170.19	321,9
	762,875.51	1,316,810.59	2,059,035.00	2,490,278.32	3,013,844.15	3,620,014.34	3,941

LEGEND:

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

DAD



82.19	635,324.66	653,546.21	697,277.93	1,082,359.99	1,089,648.61	1,354,468.45	8.0

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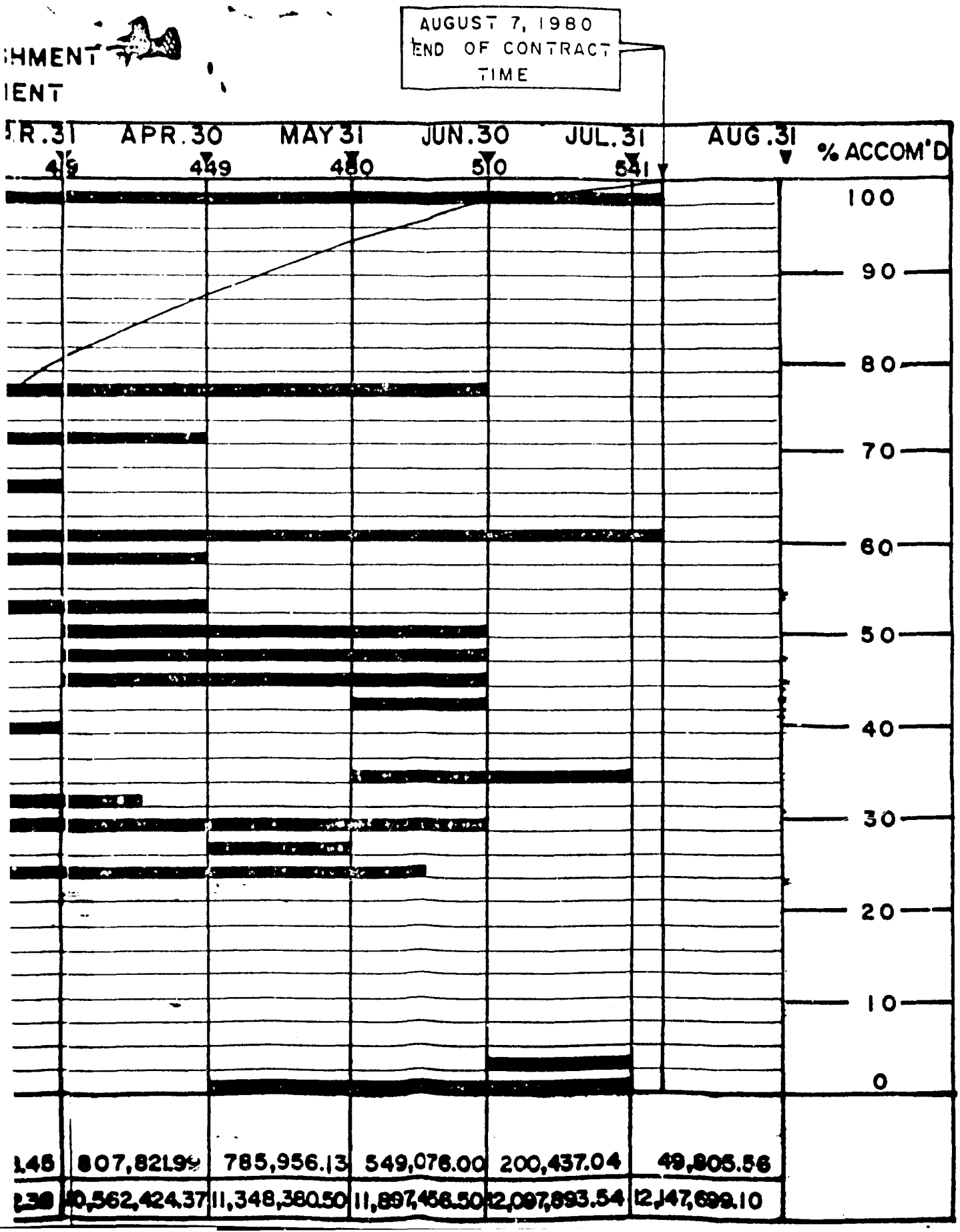
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