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REPUBLIC OF THE PHILIPPINES
MINISTRY OF PUBLIC HIGHWAYS
MANILA

BICOL RIVER BASIN DEVELOPMENT PROJECTS SECONDARY & FEEDER ROADS

CAMARINES SUR

PACKAGE II

MONTHLY CONSTRUCTION REPORT

RECEIVED
OCT 05 1950

AUGUST, 1980

INTEGRATED PHYDOMBALT INC
CONSULTING ENGINEERS
PHILIPPINES

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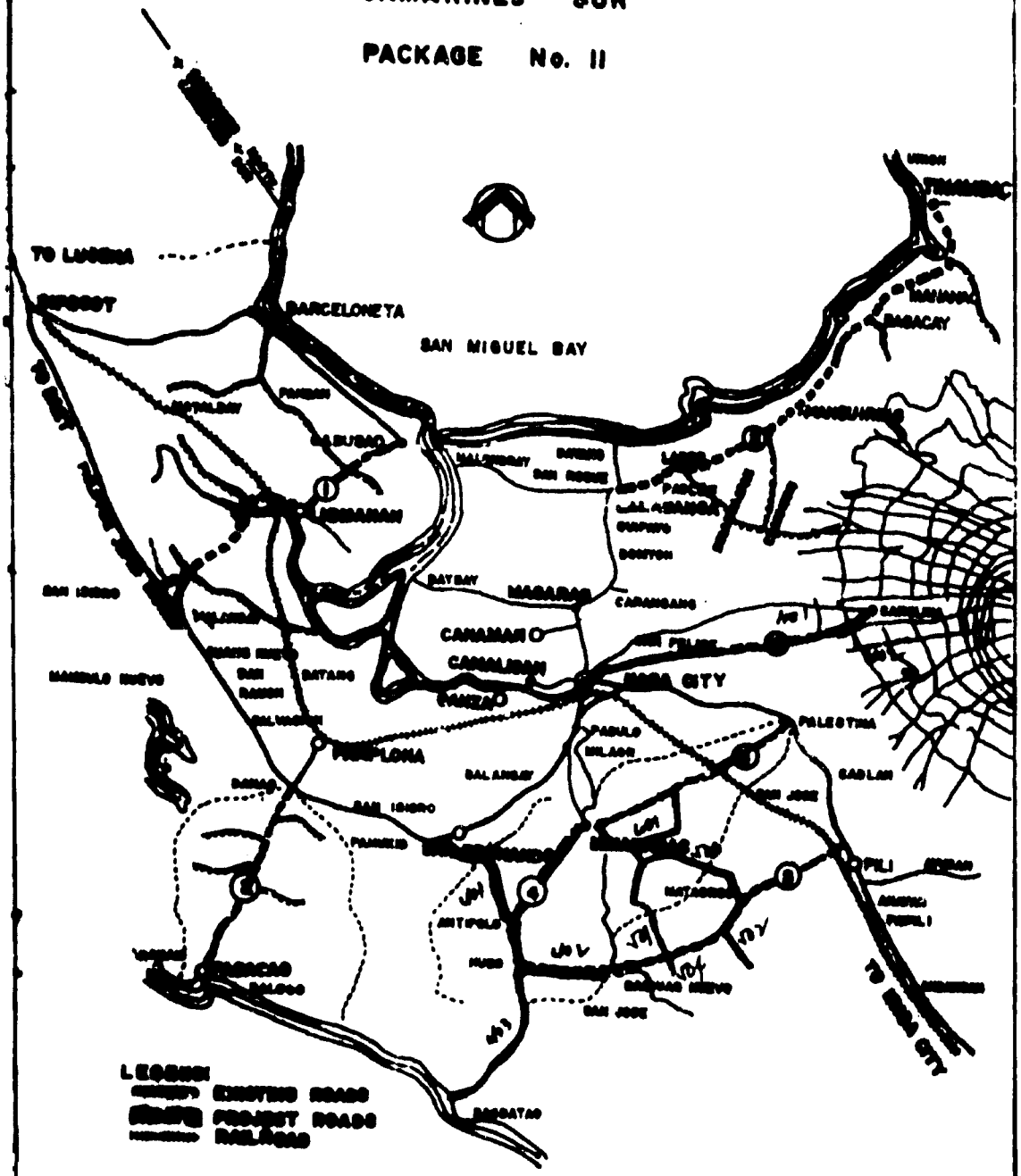
FIGURE 1

BICOL RIVER BASIN DEVELOPMENT PROJECT

SECONDARY AND FEEDER ROADS
CAMARINES SUR

PACKAGE No. II



LOCATION PLAN

PROGRESS REPORT NO. 10
August, 1980

PROJECT: MINALABAC-ANTIPOLO-HUBO ROAD PROJECT
Sub-Project No. 4
Under Contract by: Polytrade Construction, Co., Inc.

1. GENERAL

This project consists of the construction of:

a. Minalabac-Antipolo-Hubo secondary road, from the beginning of the project at the municipality of Minalabac, Camarines Sur, Sta. 0 + 000, to the barrio of Hubo, Minalabac, the end of the project at Sta. 8+838.94, or a length of 8,838.94 kilometers.

b. Antipolo-Lupi-San Fernando feeder road no. 401, Sta. 0 + 008 to Sta. 5 + 136.53, or a length of 5.128.53.

c. Hubo-Baliwag Nuevo feeder road no 402, Sta. 0 + 002.00 to Sta. 2 + 620.44 or a length of 2.618.44

d. Hubo-Bagolatao feeder road no. 403
Sta. 0 + 000 to Sta. 7 + 661.74, or a length of 7.661 kms.

The total length of the project is 24,247.65 kms.

SECONDARY ROAD

Of the 8.8 kms. of secondary road, only 5.70 kms. is to be asphalted with Item 314, Bituminous Surface Treatment, Hot Asphalt Type, that is, from Sta. 0 + 000 to Sta. 5 + 701.10 and 3.14 kms. is to be surfaced with gravel (Item 108), that is, from Sta. 5 + 725.70 to Sta. 8 + 838.94.

As per plan, the width of the pavement is 6.10m. with 1.00m shoulders. The road traverses through ricelands and road embankment averaging 2.00m above ground elevation is being constructed so that the pavement cannot be reached by water during floods which is a yearly occurence in the municipalities of Minalabac and Milaor. There are 28 lines of pipes of various sizes and two (2) RCBox Culverts, installed along the 8.8 kms. stretch of secondary road to take care of drainage in the area.

The road passes thru barrios Irayang Sulong, Antipolo, sitio Campasan until barrio Hubo is reached. The above barrios are mostly populated with farmers as the town of Minalabac is within the Bicol River Basin, and a part of a very very wide area of farmlands and ricelands. Two concrete bridges, the Balogo Bridge, Km. 5+713.40 a 2 span RCDG Bridge, and Mata Bridge, Km. 7 + 324.10 a one span bridge, are now completed. Both bridges have been opened to traffic last month.

A cut-off channel 7.5m. wide, 3.00m deep has been constructed across the secondary road at Sta. 0 + 850 by the Bureau of Public Works immediately before this road was started and a long post tensioned bridge, one span of 90 ft., is proposed over it. Said bridge is to be bidded and tender documents is preparation for its advertisement is now being undertaken by the PMO, Naga City.

Best Available Document

FEEDER ROAD All feeder roads are sub-contracted by:

Genaro G. Reyes Construction from Polytrade Construction Co., Inc.

Antipolo-Lapi-San Fernando - Sta. 0+008 to Sta. 5+136.53 or 5.128 kms.

This feeder road starts from barrio Antipolo with junction at Sta. 0 + 008 to end at Sta. 5 + 136.53, the junction of the National Highway at San Fernando. It will be a gravel road surface 4.00m wide with 1.00m shoulder which passes through rice-lands and sugarlands. Barrio Lapi is also densely populated and transporation of products from the barrios of Antipolo, Hubo, Baliwag Nuevo, Bagolatao, exit through this road.

Hubo-Baliwag Nuevo Road. Sta. 0 + 002 to Sta. 2 + 620.44 or 2.616.44kms.

From barrio Hubo, this road traverses thru ricelands to Baliwag Nuevo. An average embankment of 1.00m is being formed for this road. This is also 4.00m. wide with 1.00m shoulders, and to be surfaced with gravel (Item 108). This road ends just some 100 meters from the Bicol River.

Hubo-Bagolatao Road. Sta. 0 + 000 to Sta. 7 + 661.74

From Barrio Hubo, this road traverses thru steep grades as it crosses the mountain range going to the seacoast of Camarines Sur. Bagolatao is a fishing village situated on the sea coast facing Burias Island.

The maimum grade attainable on this road is 15% and the highest point reached by this road is Barrio Del Socorro, 4.5 kms.

away from Hubo and situated 265 meters above sea level. It is in barrio Del Socorro that you see the birds-eye-view of Naga City, Pili and the outlying towns of Minalabac, Milaor and the barrios at the foot of Mount. Isarog. The scenic beauty and splendor of a part of Camarines Sur can be seen from Del Socorro and can be made a tourist attraction once this road is finished. As we go down to Bagolatao which is about three kilometers to the coast, we see the horizon of Burias Island. There in Bagolatao you will see the crystal clear sea water. The coast is of pea-size gravel and people enjoy swimming any time of the day.

WORK PROGRESS

Generally, work progress on both Secondary and Feeder roads slackened this month due to intermittent rains prevailing in the project site. Deliveries of road materials like items 200, 108 and 107 could hardly be done due to wetand unworkable grounds.

In the secondary roads, asphalt paving was started early this month when the weather was good and 1.4 kms. of asphalt item 314 has already been laid complete up to cover aggregates, that is, from Sta. 3 + 775 to Sta. 5 + 175. Immediately after one week of asphalting work, rain came and the work was greatly hampered. The crusher of the contractor which is located at Carareyan, Carolina about 30 kms. from project site of Minalabac-Hubo road, could not work on crushing boulders for item 200 and aggregate materials for aphalting, becaure of rains. Weather permitting, the contractor is expected to resume full activity as soon as the ground becomes workable.

Work on feeder roads also is minimal due to heavy rains. The contractor has already moved the bailey bridge at San Fernando to the left side (detour) give way to the driving of concrete piles of a bridge with timber superstructure.

During the month all feeder roads especially Antipolo was subjected to intermittent rains and the road became hardly passable in some sections. However, the contractor has provided some means of having the road passable every time some vehicles get stucked up by stationing a bulldozer and payloader nearby.

Survey works:

Profile levelling, cross-sectionings and placing of blue-tops were undertaken by the survey team of the contractor (Polytrade) on the secondary portion of the Minalabac-Antipolo-Hubo Road. Added to this are continous checking of horizontal alignments followed by placing of stationings per 25m length.

With regards to the three feeder roads (401, 402, & 403), the sub-contractor also undertook the same survey works most especially on the Hubo-Bagolatao road section where there remain still some portions to be cut.

General Percentage of Work Accomplished - - - - - - 89.49%

1. Minalabac-Antipolo-Hubo Secondary Road - - 56.97%
2. Fr. 401 - Antipolo-Lupi-San Fernando - - - 1..92%
3. Fr. 402 - Hubo-Baliwag Road - - - - - - - 7.05%
4. Fr. 403 - Hubo-Bagolatao - - - - - - - - - 13.55%

T o t a l- - - - 89.49%

Percent Time Elapsed - - - - - - - - - - - - 73.70%

Note: Above percentage of work accomplished and time elapsed were based on the revised Bar Schedule with tentative expiry date on March 15, 1981.

A. Secondary Road:

(1) Minalabac-Antipolo-Hubo Road, Sta. 0+000 to Sta.8+838.94

Subgrade - - - - - - - - - - - 8.830 kms.

Subbase - - - - - - - - - - - 7.20 kms.

Base Course - - - - - - - - - 1.95 kms.

Pavement - - - - - - - - - - - 1.40 kms.

Accomplished to date - - - - 92.38%

B. Feeder Roads

(1) [illegible] (FR 401)

Sta. 0 + 000 to Sta. 5 + 136.53

Subgrade - - - - - - - - - - - 5.118 kms.

Subbase - - - - - - - - - - - 3.881 kms.

Accomplished to date - - - - 83.49%

(2) Hubo [illegible] (Fr. 402), Sta. 0 + 000 to Sta. 2 + 620.44

Subgrade - - - - - - - - - - - 2.604 kms.

Subbase - - - - - - - - - - - .861 kms.

Accomplished to date - - - - 87.31 %

(3) Hubo-Bagalatao Road (Fr.403), Sta. 0 + 000 to Sta. 7+661.74

Subgrade - - - - - - - - - - - 7.648 kms.

Subbase - - - - - - - - - - - 4.136 kms.

Accomplished to date - - - - 83.86%

Best Available Document

SECONDARY ROADS (Accomplished during the month)

Item 107 - Common Borrow Materials

Sta. 0 + 900 - Sta. 1 + 120

Item 108 - Subbase Materials

Sta. 5 + 650 - Sta. 5 + 701 - Abutment A } (Balogo bridge
Sta. 5 + 735 - Sta. 5 + 775 - Abutment B } Approach)

Sta. 7 + 250 - Sta. 7 + 315 - Abutment A } (Mata Birdge
Sta. 7 + 325 - Sta. 7 + 375 - Abutment B } Approach)

Sta. 6 + 500 - Sta. 7 + 050 -

Item 302 - Medium Curing out-back asphalt, Grade MC-1 for Bit. prime Coat.

Delivery to the Project - 31 metric tons

Used for 1.5 kms. - - - - 8.7 "

Available for use - - - - 22.3 metric tons

(No additional for this month)

Item 314-3 - 85 - 100 Penetration Asphalt Cement for BST (Hot Asphalt Type)

First delivery to the project - - 17.4 metric tons

Used for 1.5 kms. - - - - - - - - 17.4 metric tons

2nd delivery (Available for use)- 10.0 metric tons

Item 405-A - Concrete Structure

Bridges:

Balogo bridge - Completed including approaches has been opened for all vehicles

Mata Bridge - Completed including approaches has been opened for all vehicles.

Box culverts:

Single barrel - Sta. 6 + 461.00 - completed 1-2.40 x 1.80

Double barrels - Sta. 6 + 923.80 - completed 2 - 1.80 x 2.10

Item 413 - RCP/Headwalls

All scheduled RCP lines from Sta. 0 + 975 to Sta. 8 + 800 (End of the secondary road) have been installed complete with headwalls, except the two (2) lines on the other side of the cut-off channel reckoned from the beginning of the secondary road.

FEEDER ROADS

#401 - Antipolo-San Fernando Roads

No accomplishment this month except the transfer of the Bailey Bridge located at San Fernando to the detour side giving way for the timber trestle bridge to be constructed.

#402 - Hubo-Daliwag Nuevo Road

No accomplishment for this month.

#403 - Hubo-Bagolatao Road

Item 105 - Roadway & Drainage Excavation partly done.

Item 108 - Subbase Materials

Sta. [illegible] Sta. 7 + 200

Best Available Document

SUMMARY OF PHYSICAL ACCOMPLISHMENT AS OF AUGUST 25, 1980

a. **Roads**

	Secondary Road	Feeder Roads
Sub-grade	8.830 kms.	15.37 kms.
Subbase	7.20 kms.	8.878 kms.
Base	3.03 kms.	None
Pavement	8,540 sq. m. (Asphalt Item 314)	None

*The surfacing of feeder roads will be the subbase itself, Item 100.

b. **Bridges**

Sub-structure	Abutment on Reinforced concrete Pile Bent & Center pier on Concrete Bearing Piles.
Super-structure	37.60 lin. m.

LABORATORY TEST REPORTS

Feeder No. 401 - Antipolo-Lupi-San Fernando

TEST	ITEM	PREVIOUS	THIS MONTH	BALANCE
Grading	105	24	-	None
PL & LL	105	24	-	None
Compaction	105	24	-	None
F. Density	105	50	-	None
Grading	107	15	-	2
PL & LL	107	15	-	2
Compaction	107	15	-	2
F. Density	107	59	-	14
Grading	108	10	-	None
PL & LL	108	10	-	None
Compaction	108	10	-	None
F. Density	108	25	-	None

Feeder # 402 - Hubo-Baliwag Road

TEST	ITEM	PREVIOUS	THIS MONTH	BALANCE
Grading	107	16	-	None
PL & LL	107	16	-	None
Compaction	107	16	-	None
F. Density	107	72	-	None
				TOTAL
Grading	108	2	-	2
PL & LL	108	2	-	2
Compaction	108	2	-	2
F. Density	108	10	-	10

#403 - Hubo-Magolatao Road

Grading	105	40	-	40
PL & LL	105	40	-	40
Compaction	105	40	-	40
F. Density	105	131	118	249
Grading	108	5	1	6
PL & LL	108	5	1	6
Compaction	108	5	1	6
F. Density	108	10	5	15

STATUS OF TESTS
As of August 1980

Materials	Total Estimated Quantities	No. of Tests Required	No. of Tests On file	Balance
105 Roadway & Drainage Excavation	15,500 cu.m	D - 52 C,G&P-11	D - 52 C,G&P-11	D - None C,G&P-None
106 Excavation for Structure	770 cu.m.	D - 3 C,G&P-1	D - 3 C,G&P-1	D - None C,G&P-None
107 Borrow	182,450cu.m.	D-342 C,G&P-69	D-302 C,G&P-69	D - 40 C,G&P-None
108 Aggregate Subbase Course	25,700cu.m.	C-18;D-[illegible] G&P-86	C-15;D-58 G&P-71	D-28;C-3 G&P-15
110 Foundation Fill				
200 Aggregate Base Course	7,500cu.m.	C-5 D,G&P-25	C-2; D- G&P-8	C-3;D- G&P-17
405 Conc. Class"A"(Misc)	487 cu.m.	G-(FA)-7 (CA)-7 Design Mix -7	G(FA)-[illegible] (CA)-5 Design Mix-5	G(FA)-2 (CA)-2 Design Mix-2
405-1 Conc. Class "A" (Bridge)	163cu.m.	G(FA)-3 (CA)-3 Design Mix-3	G(FA)-3 (CA)-3 Design Mix-3	G(FA)-None (CA)None Design Mix-None
413-1 .30 ØRCP	29 L.M.	IR-2	IR-	
.60 M ØRCP	362 L.M.	IR-15	IR-	
.90 M ØRCP	96 L.M.	IR-4	IR-	
1.20M ØRCP	379 L.M.	IR-16	IR-	
500 Riprap & Grouted	190 cu.m.	IR-1	IR-1	IR-None

COMPRESSIVE STRENGTH (Secondary Road)

Date Sampled	Part of Structures Represented	Compressive Strenght for 28 days	REMARKS
1-18-79	RCP .60 Ø	3440	Satisfactory
-do-	-do-	2870	Failed
-do-	-do-	3070	Satisfactory
1-22-79	RCP .90 Ø	3232	-do-
-do-	-do-	3241	-do-
-do-	-do-	2561	Failed
2-3-79	RCP .90 Ø	3077	Satisfactory
-do-	-do-	3072	-do-
-do-	-do-	3345	-do-
2-12-79	RCP .60 Ø	4161	Satisfactory
-do-	-do-	3675	-do-
-do-	-do-	3444	-do-
2-21-79	RCP .60 Ø	3907	-do-
-do-	-do-	3703	-do-
-do-	-do-	3553	-do-
3-11-79	RCP .60 Ø	2674	Failed
-do-	-do-	3001	Satisfactory
-do-	-do-	3271	-do-
7-4-79	RCBC Bottom Slab	4260	Passed
-do-	-do-	3078	-do-
7-9-79	RCBC Sidewall	3078	-do-
-do-	-do-	2394	Failed
-do-	-do-	3016	Passed
-do-	-do-	4882	Passed
7-16-79	Top Slab	3187	Passed
-do-	-do-	2783	Failed
-do-	Center wall	3825	Passed
-do-	-do-	2581	Failed
8-31-79	RCBC Sidewall	3895	Passed
-do-	-do-	4447	Passed
9-1-79	-do-	3886	Passed
-do-	-do-	3585	Passed
9-22-79	RCBC Top Slab	4087	Passed
-do-	-do-	3195	Passed
10-18-79	Sidewall	3135	Passed
-do-	-do-	2480	Failed
-do-	-do-	2534	Failed
10-25-79	RCBC Top Slab	3141	Passed
-do-	-do-	3281	Passed
-do-	-do-	2729	Failed
11-8-79	RCP 1.20 Ø	3576	Passed
11-10-79	-do-	2421	Failed
11-21-79	-do-	2922	Failed
11-26-79	RCP .90 Ø	2309	Failed
-do-	-do-	3055	Passed
11-28-79	-do-	2340	Failed
-do-	-do-	3506	Passed
11-21-79	RCBC Wingwall	3597	Passed
		3506	Passed

11-21-79	RCBC Wingwall	4009	Passed
11-26-79	RCBC Apron	2822	Failed *
-do-	-do-	2962	Failed *
11-28-79	RCBC Wingwall	3630	Passed
-do-	-do-	3810	Passed
4-14-80	Pier, Balogo Bridge	3609	Passed compressive
-do-	-do-	3477	strength requirement
-do-	-do-	[illegible]	
3-25-80	Coping, Abut. A	[illegible]	-do-
-do-	-do-	3179	-do-
3-31-80	Coping, Abut B	3345	-do-
-do-	-do-	2814	
3-27-80	Backwall Abut.A	2987	Failure *
-do-	-do-	1943	Failure *
-do-	-do-	2457	Failure *
4-21-80	Coping Abut. B, Mata Bridge	2806	Failure *
-do-	-do-	2612	
-do-	-do-	3055	
4-22-80	Backwall AbutB,MataBr.	2783	Passed compressive
-do-	-do-	3055	strength requirement
-do-	-do-	3359	
5-3-80	Girder,Balogo Bridge	3509	-do-
-do-	-do-	2861	
-do-	-do-	3327	

Compressive Strength (Feeder Road Nos. 401,402,403)

Date Sampled	Part of structures represented	Compressive strength for 28days	Remarks
7-16-79	RCP 36" Ø	4664	Passed
-do-	-do-	4507	Passed
8-17-79	RCP 24" Ø	2736	Failed *
-do-	-do-	2994	Failed
8-18-79	RCP 36" Ø	3763	Passed
-do-	-do-	4555	Passed
8-3-79	RCP 48" Ø	4781	Passed
-do-	-do-	4224	Passed

* Necessary corrections/adjustments have been made to attain the required compressive strength.

Secondary Roads

RCP's Installed with Size

Station	Size	No. of pcs.	R C P	Headwall
1 + 770.52	48'Ø	18	Installed	Constructed
1 + 475.00	36'Ø	18	Installed	Constructed
1 + 375.00	36'Ø	17	Installed	Constructed
2 + 143.82	24'Ø	18	Installed	Constructed
2 + 652.12	24'Ø	13	Installed	Constructed
2 + 852.72	24'Ø	15	Installed	Constructed
2 + 900.00	24'Ø	14	Installed	Constructed
3 + 111.44	36'Ø	15	Installed	Constructed
3 + 389.45	12'Ø	12	Installed	Constructed
3+ 325.00	12'Ø	12	Installed	Constructed
3 + 787.00	13'Ø	13	Installed	Constructed
3 + 910.52	36'Ø	14	Installed	Constructed
4 + 144.13	24'Ø	13	Installed	Constructed
4 + 369.02	24'Ø	13	Installed	Constructed
4 + 854.15	30'Ø	13	Installed	Constructed
4 + 925.00	36'Ø	15	Installed	Constructed
5 + 183.15	24'Ø	12	Installed	Constructed
6 + 225.00	24'Ø	16	Installed	Constructed
6 + 425.00	24'Ø	15	Installed	Constructed
6 + 677.00	24'Ø	15	Installed	Constructed
6 + 755.30	36'Ø	16	Installed	Constructed
7 + 250.00	48'Ø	18	Installed	Constructed
8 + 055.00	24'Ø	14	Installed	Constructed
8 + 066.00	36'Ø	15	Installed	Constructed
8 + 072.30	24'Ø	15	Installed	Constructed
8 + 222.00	24'Ø	13	Installed	Constructed
8 + 459.00	24'Ø	12	Installed	Constructed
8 + 650.00	24'Ø	14	Installed	Constructed

WEATHER REPORT
As of August , 1980

PROJECT: MINALABAC-ANTIPOLO-HUBO ROAD PROJECT
Sub-Project No. 4

Date-1980		Weather	Remarks	Time Extension Recommended
July	26	Fair but ground still wet	Unworkable	One (1) day
	27	Fair	Workable	None
	28	Fair	Workable	None
	29	Fair to cloudy	Workable	None
	30	Cloudy	Workable	None
	31	Cloudy to fair	Workable	None
August	1	Cloudy w/ PM light	Workable	None
	2	Fair	Workable	None
	3	Fair	Workable	None
	4	Fair	Workable	None
	5	Fair to cloudy	Workable	None
	6	Fair	Workable	None
	7	Cloudy w/ pm light	Workable	None
	8	Fair	Workable	None
	9	Fair	Workable	None
	10	Cloudy	Workable	None
	11	Fair	Workable	None
	12	Cloudy to Fair	Workable	None
	13	Cloudy	Workable	None
	14	Fair	Workable	None
	15	Fair to cloudy	Workable	None
	16	Fair w/ rain shower	Workable	None
	17	Cloudy	Workable	None
	18	Rainy	Unworkable	One (1) day
	19	Rainy	Unworkable	One (1) day
	20	Fair but ground still wet	Unworkable	One (1) day
	21	Fair to cloudy	Workable	None
	22	Fair to cloudy	Workable	None
	23	Cloudy w/ rain shower	Workable	None
	24	AM, heavy rain	Unworkable	One (1) day
	25	Cloudy, ground still wet	Unworkable	One (1) day

TOTAL EXTENSION OF TIME RECOMMENDED THIS MONTH - - 6 days
TOTAL EXTENSION OF TIME RECOMMENDED PREVIOUSLY - 118 days
GRAND TOTAL EXTENSION OF TIME RECOMMENDED - - - 124 days

Date of effectivity of contract - - - February 7, 1979

BICOL RIVER BASIN DEVELOPMENT PROGRAM OFFICE
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONTRACTOR Genaro G. Reyes Construction, Inc.

FOR THE MONTH OF August, 1980

	ADMINISTRATIVE/ FINANCE	ENGINEERING/ TECHNICAL	SKILLED	UNSKILLED
MANILA-BASED 1/		10	13	3
LOCAL-HIRED 2/		2	4	17
SUB-CONTRACTORS 3/				
TOTAL		12	17	20

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired only

Submitted by:

(SGD) ANTONIO BANZON
Project Engineer

/cbed

CENARO G. REYES CONSTRUCTION, COMPANY
Minalabac, Camarines Sur

LIST OF PERSONNEL

NAME	POSITION	QUALIFICATION
1. Antonio Banzon	Project Manager	Civil Engineer
2. Rogelio Gonzales	Project Engineer	Civil Engineer
3. Maximo Mendoza	Foreman	Experienced
4. Marcos Galban	Foreman	-do-
5. Armando Bidania	Instrument Man	-do-
6. Bong Bidania	Survey Aide	-do-
7. Dominador Sabado	Survey Aide	-do-
8. Danilo Nicolas	Survey Aide	-do-
9. Orlando Dacuman	Survey Aide	-do-
10. Jolito Cambo	Survey Aide	-do-
11. Domingo Voluntad	Timekeeper	-do-
12. Pedro Suyat	Overseer	-do-
13. Agustin Perena	Motorpool Guard	-do-
14. Luciano Lavandero	Guard	-do-
15. Francisco Magnato	Guard	-do-
16. Andress Rodeno	Guard	-do-
17. Vicente Armellas	Guard	-do-
18. Leonardo Valentin	Grader Operator	-do-
19. Ruben Macapagal	Dulldozer Operator	-do-

20.	Baltazar Panoito	Payloader Operator	Exp ..nced
21.	Reynaldo Arcinas	Bulldozer Operator	-do-
22.	Mario Reyes	Dump Truck Driver	-do-
23.	Reynaldo Caseero	Dump Truck Driver	-do-
24.	Ruben Jacobe	Dump Truck Driver & Hoobie Operator	-do-
25.	Sixto Simon	Dump Truck Driver	-do-
26.	Ricardo Macapagal	Bulldozer Operator	-do-
27.	Juan Cambe	Bulldozer Operator	-do-
28.	Fernando Alojada	Mechanic	-do-
29.	Leonardo Sabado	Helper Mechanic	-do-
30.	Bax dela Cruz	Helper Mechanic	-do-

BICOL RIVER BASIN DEVELOPMENT PROGRAM OFFICE
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONTRACTOR POLYTRADE CONSTRUCTION, INC.

FOR THE MONTH OF August, 1980

	ADMINISTRATIVE/ FINANCE	ENGINEERING/ TECHNICAL	SKILLED	UNSKILLED
MANILA-BASED 1/	2	2	4	
LOCAL-HIRED 2/	9	5	26	13
SUB-CONTRACTORS 3/				
T O T A L	11	11	30	13

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired only

SUBMITTED BY:

(SGD) MILAGROS A. NORBERTO
Project Engineer

Minalabac-Antipolo-Hubo Road Project

/cbed

POLYTRADE CONSTRUCTION INC.
Minalabac, Camarines Sur

LIST OF PERSONNEL
As of Aug. 1980

I. TECHNICAL STAFF

NAME	Position	Qualification
Pere-, Teodoro	Project Manager	Civil Engineer
Norberto, Milagros	Project Engineer	-do-
Espeso, Leonardo	Project Supervisor	-do-
Sauco, Rogo	Shop & Equipt, Supervisor	Experienced
Barillas, Zacarias	Const, Foreman	-do-
Porteria, Juanito	Bridge Foreman	-do-
Rojano. Silvestre	Lab. Technician	-do-

II, ADMINISTRATIVE STAFF

Cruz, Nestor	Adm. Officer	B S B A
Reyes Efren	Comptroller	Experienced
Sauco, Delfin	Misc. Service	-do-
Polvoriza, Armando	Warehouseman	-do-
Talledo, Arni	Pyroll clerk	B S B A
Dumaventura, Godofredo	POL In charge	Experienced
Tragante, Frisco	Watchman	-do-
Pellosis, Eduardo	Watchman	-do-
Asis, Leoncio de	Watchman	-do-
Jacobe, Pedro, Jr.	Watchman	-do-
Aguila, Celestino	Field Checker	-do-

III. MECHANICAL DEPARTMENT

Luna, Freddie	Mechanic	Experienced
Caisip, Rogelio	Mechanic	-do-
Torsar, Francisco	Tireman	-do-
Dinlas, Cedillo	Electrician	-do-

IV. SURVEY & LAB. TEAM

Torre, Bayani dela	Chainman	-do-
Eballar, Luis	Survey Aide	-do-
Bislumbre, Carlos	Survey Aide	-do-
Leon, Luis de	Lab. Aide	-do-

V. DRIVERS

Adao, Numeriano	DT - Driver	-do-
Julo, Norberto	DT - Driver	-do-
Palmas, Ricardo	DT - Driver	-do-
Balonzo, Rodelio	DT - Driver	-do-
Bernal, Carlos	Service Driver	-do-

VI. HEAVY EQUIPMENT

Francisco, Graciano	Loader Operator	-do-
Villavecencio, Virgilio	BD Operator	-do-
Lozano, Teotimo	Grader Operator	-do-
Delorino, Eduardo	Dynapac Operator	-do-
Balonzo, Jolito	BD Operator	-do-
Hernandez, Teodoro	Helper	-do-

HEAVY EQUIPMENTS
As of Aug. 1980

Secondary Roads:

A. Bulldozer
   1 unit D-0H (komatsu) w/ 2 rippers

b. Dump Trucks:
   2 Ford (6-wheelers)
   2 Isuzu (10-wheelers)
   1 Isuzu (6-wheelers)

c. Rollers:
   Vibratory Compactor, Dynapac (self-propelled)

d. Loader:
   2 Isuzu Loader (JH-60, w/ Kinco body)

e. Grader:
   1 Unit Caterpillar

f. Water Truck:
   1 Unit w/ truck tractor

additional this month:

   1 Tandem Roller
   1 Pneumatic Roller
   1 Asphalt Distributor

Feeder Road Nos. 401, 402 & 403

A. Bulldozer
   2 units caterpillar (D-8)
   1 unit Komatsu (D-30A w/ ripper)

b. Dump Trucks
   5 units Isuzu (6-wheelers)
   1 unit Tandem Wheel roller

c. Roller:
   1 unit self-propelled Pneumatic roller
   1 unit 3-wheel Tandem roller

d. Loader
   2 units Caterpillar

e. Grader
   2 units Caterpillar

f. Water Truck
   1 unit on top of 6-wheel truck

LIST OF OFFICE EQUIPMENT
As of Aug. 1980

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

Annex "C"

LIST OF LABORATORY EQUIPMENTS
As of Aug. 1980

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. 10	1	pc.
8 - inch Brass Mesh No. 16	1	pc.
8 - inch Brass Mesh No. 30	1	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 20kg. cap Chaise H-111 D	1	set
Triple Beam balance 0.1 sea	1	set
Volumetric Flask 500ml.	1	set
Liquid Limit Device w/ grooving tool	1	set
Plastic Limit	1	set
Cent - - gram balance 0.01 sea	1	set

Rectangular pan 4" x 4" x 10"	1	pc.
Square Pan 24" x 24"	1	pc.
Modified Compaction Mold 1/13.33	1	pc.
Modified Compaction Mold 10 lbs.	1	pc.
Modified Compaction Hammer 5.5 lbs.	1	pc.
Wash Bottle 1000 ml.	1	pc.
Field Density Set	1	set
Yeild Bucket	1	pc.
Oven, Electric Memmert #760190	1	unit
Harvard Trip Balance Ohause	1	set
8 - inch Bras Sieve No. 4	1	unit
Spring Balance 12 Kilos Cap.	1	unit
Compaction Mold 1/30 cu.ft.	1	set
Frying Pan 16" x 18"	6	pcs.
Wire Basket	1	pc.
Cylinder Mold	2	pcs.
8 - inch Sieve Brass Pan	1	pc.
8 - inch Pan Bras Cover w/ ring	1	pc.
Slump Cone w/ Tampering Rod	1	pc.
Work Table, 1.20 x 2.40m.	1	ea.
Simple Wooden Chair	5	pcs.
Corenter w/ G.I. sink	1	set
Wooden Filing Cabinit	1	ea.
Stapler	1	ea.
Puncher	1	

Note: These laboratory Equipments are now available at the project as per check and audit made by Engr. Samares, Chief Quality Control Section, PHO, and representative of Auditor's Office on March 23&26, 1979 respectively.

ITEM NO	DESCRIPTION	EST SCHED
1·60·2	Provide and Maintain Office and Laboratory for the Engineer	0.3
1·60·3	Provide one(1) Unit Four Wheel Drive for the Engineer.	0.5
1·60·4	Provide one(1) Unit Utility Vehicle for the Engineer	0.2
1·60·5	Laboratory and Office Equipment for Engr. (as listed)	0.5
100	Clearing and Grubbing	0.5
103-1(Fr.401)	Removal of Bridge	0.0
105(Sec.)	Roadway and Drainage Excavation	2.3
105(Fed.401,402)	Roadway and Drainage Excavation	2.2
105(Fed.403)	Roadway and Drainage Excavation	9.1
105-4	Excavation of Unsuitable Materials	—
106 (Sec.)	Excavation for Structures	0.1
106(Fr.401,402,403)	Excavation for Structures	0.2
107 (Sec)	Borrow	30.0
107(Fed.401,402)	Borrow	10.7
108(Sec)	Aggregate Sub-base	12.0
108(Fed.401,402&403)	Aggregate Sub-base	8.1
110	Foundation	0.0
111	Overhaul (300m. Free haul)	0.0
200	Aggregate Base Course	3.0
302	Medium Curing Cut-Back Asphalt, Grade MC-1 for Bit. Prime Coat	0.5
314-1	Aggregate Material for B.S.T. (Hot Asphalt Type)	0.5
314-3	85-100 Penetration Asphalt Cement for B.S.T. (Hot Asphalt Type)	1.0
401(Fed.401)	Timber(Detour) Trestle (Superstructure only on Concrete Pile Bent)	0.3
402-2.5	Precast Concrete Piles	2.1
402-2.5a	Concrete Test Piles (Furnish and Drive)	0.1
403	Concrete Railings	0.4
405	Concrete Class "A" (Miscellaneous)	2.1
405-1	Concrete Class "A" (Bridge)	0.1
405-1(Fed.401)	Concrete Class "A" (Bridge)	0.1
406 (Sec.)	Reinforcing Steel	1.1
406(Fed.401,402,403)	Reinforcing Steel	0.1
413-1(Sec)	0.30 M. Ø Reinforce Concrete Pipe	0.1
413-1(Fed.401)	0.30 M. Ø Reinforced Concrete Pipe	0.1
413-2	0.60 M. Ø Reinforced Concrete Pipe	0.1
413-3(Sec)	0.90 M. Ø Reinforced Concrete Pipe	0.1
413-3(Fr.401,402,403)	0.90 M. Ø Reinforced Concrete Pipe	1.1
413-4	1.20 M. Ø Reinforced Concrete Pipe	2.1
500	Riprap and Grouted	0.1
510	Right-of-Way Markers	0.1
	TOTAL	100.
		MO

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FEB. 7, 1979
START OF CONTRACT TIME

ESTIMATED % WEIGHT			QUANTITY	UNIT COST	AMOUNT
SCHEDULED	ACCOMPLISHED PROJECT	ACCOMPLISHED ITEM			
0.33221	.22922	[illegible]	18 Mos.	2,400	43,200.00
0.55369	.55369	100%		Lump Sum	72,000.00
0.24608	.24608	100%		Lump Sum	32,000.00
0.55369	.55369	100%		Lump Sum	72,000.00
0.96205	.96205	100%	27.5 Ha.	4,500.00	125,100.00
0.01961	.01961	100%	1 Each	2,550.00	2,550.00
2.38397	2.38397	100%	15,500 Cu.M.	20.00	310,000.00
2.21948	2.41968	109.02%	15,190 Cu.M.	19.00	288,610.00
9.19385	9.52207	103.57%	74,720 Cu.M.	16.00	1,195,520.00
—					
0.14762	0.14762	100%	770 Cu.M.	24.93	19,196.10
0.21994	0.17934	81.54%	1,300 Cu.M.	22.00	28,600.00
30.88899	30.27000	98.00%	125,520 Cu.M.	32.00	4,016,640.00
10.72753	11.41000	106.36%	44,710 Cu.M.	31.20	1,394,952.00
12.06058	11.15000	92.49%	27,752 Cu.M.	56.45	1,566,293.90
8.19335	4.96000	60.54%	19,730 Cu.M.	54.00	1,065,420.00
0.05575	0.050370	90.35%	145 Cu.M.	50.00	7,250.00
0.05087	0.05087	100%	22,050 Sq.M.	0.30	6,615.00
3.60480	1.92244	53.33%	7,500 Cu.M.	62.50	468,750.00
0.94128	0.55366	58.82%	51 M.T.	2,400.00	122,400.00
0.53831	0.32298	60%	700 Cu.M.	100.00	70,000.00
1.88257	1.10733	58.82%	102 M.T.	2,400.00	244,800.00
0.36913			34 SPANS	12,000.00	48,000.00
2.16219	1.40867	65.15%	396 L.M.	710.00	281,160.00
0.41527	0.36336	87.5%	4 Each	13,500.00	54,000.00
0.08270	0.08270	100%	71.70 L.M.	150.00	10,755.00
2.58415	1.19387	46.20%	487 Cu.M.	690.00	336,030.00
0.97773	0.97773	100%	163 Cu.M.	780.00	127,140.00
0.07999			14 Cu.M.	743.00	10,402.00
1.34734	1.34734	100%	25,765 Kgs	6.80	175,202.00
0.20940			3,890 Kgs	7.00	27,230.00
0.03568			29 L.M.	160.00	4,640.00
0.00645	0.00645	100%	6 L.M.	140.00	840.00
0.96043	0.90473	94.20%	362 L.M.	345.00	124,890.00
0.45777	0.70091	153.13%	96 L.M.	620.00	59,520.00
1.35571	1.09772	80.97%	289 L.M.	610.00	176,290.00
2.62314	2.18009	83.11%	379 L.M.	900.00	341,100.00
0.21917	0.16437	75%	190 Cu.M.	150.00	28,500.00
0.33738	0.05617	16.65%	914 L.M.	48.00	43,872.00
100.00%	80.49% AS OF AUGUST 25, 1980				₱13,003,468.00

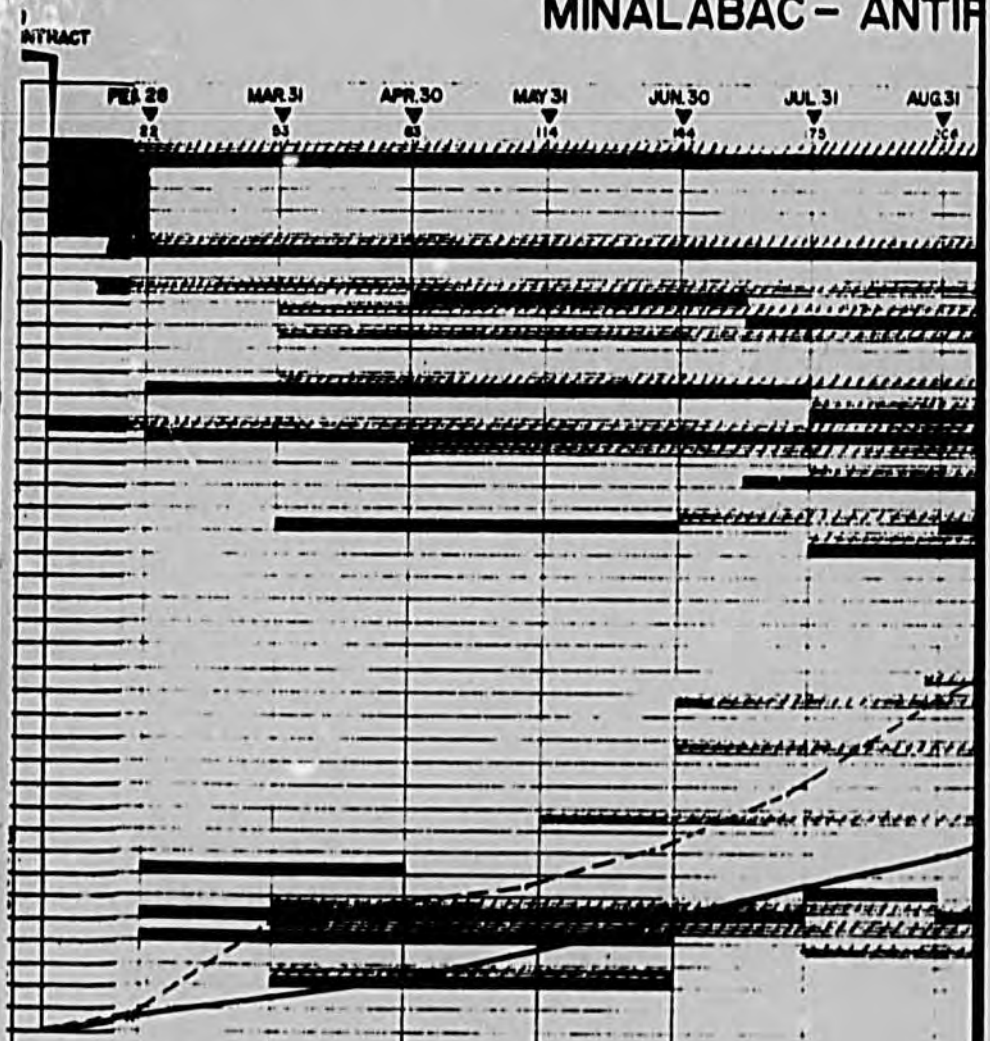
MONTHLY ACCOMPLISHMENT

27

181,0

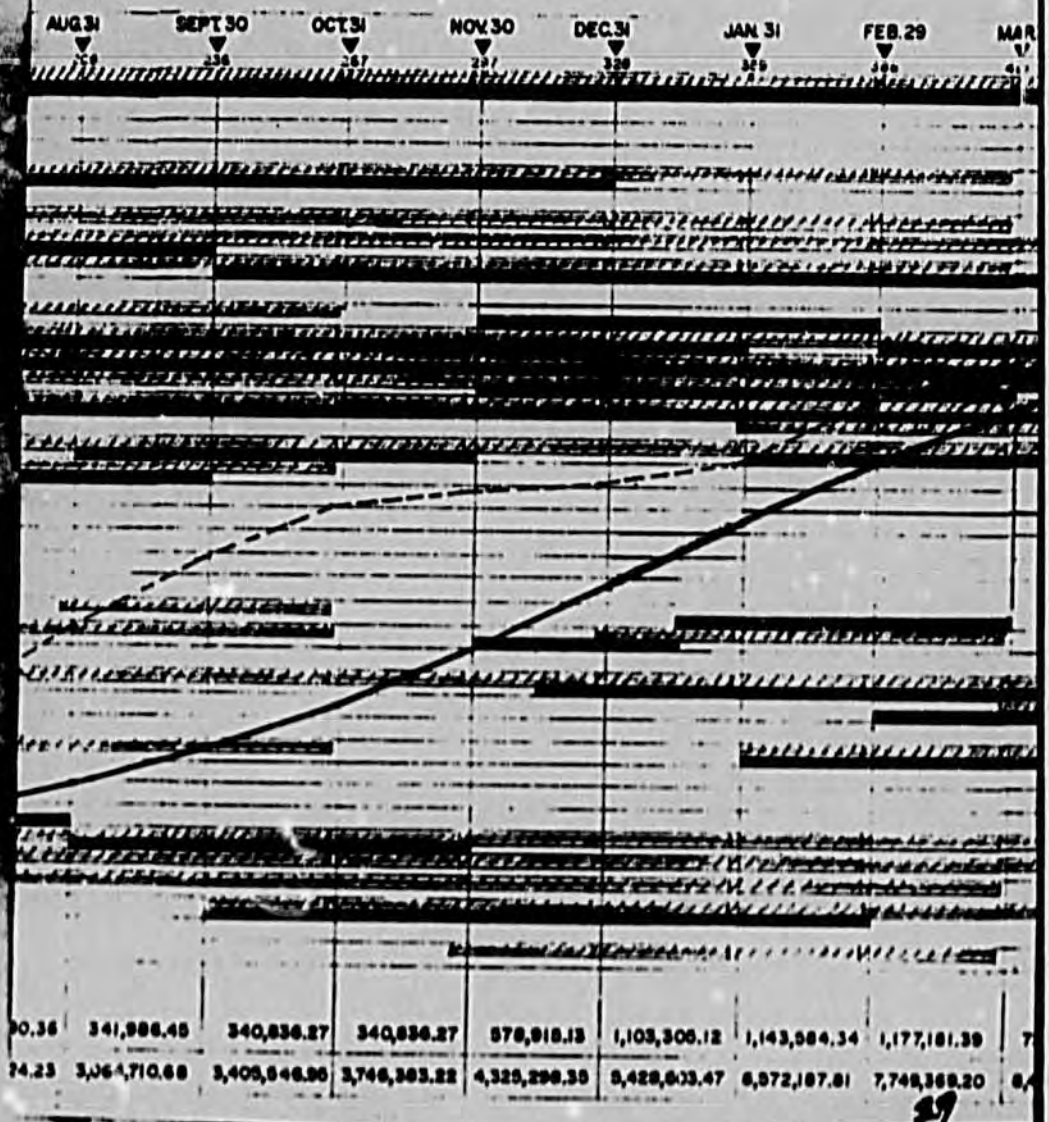
REVISED BAR SCHEDULE OF WORK

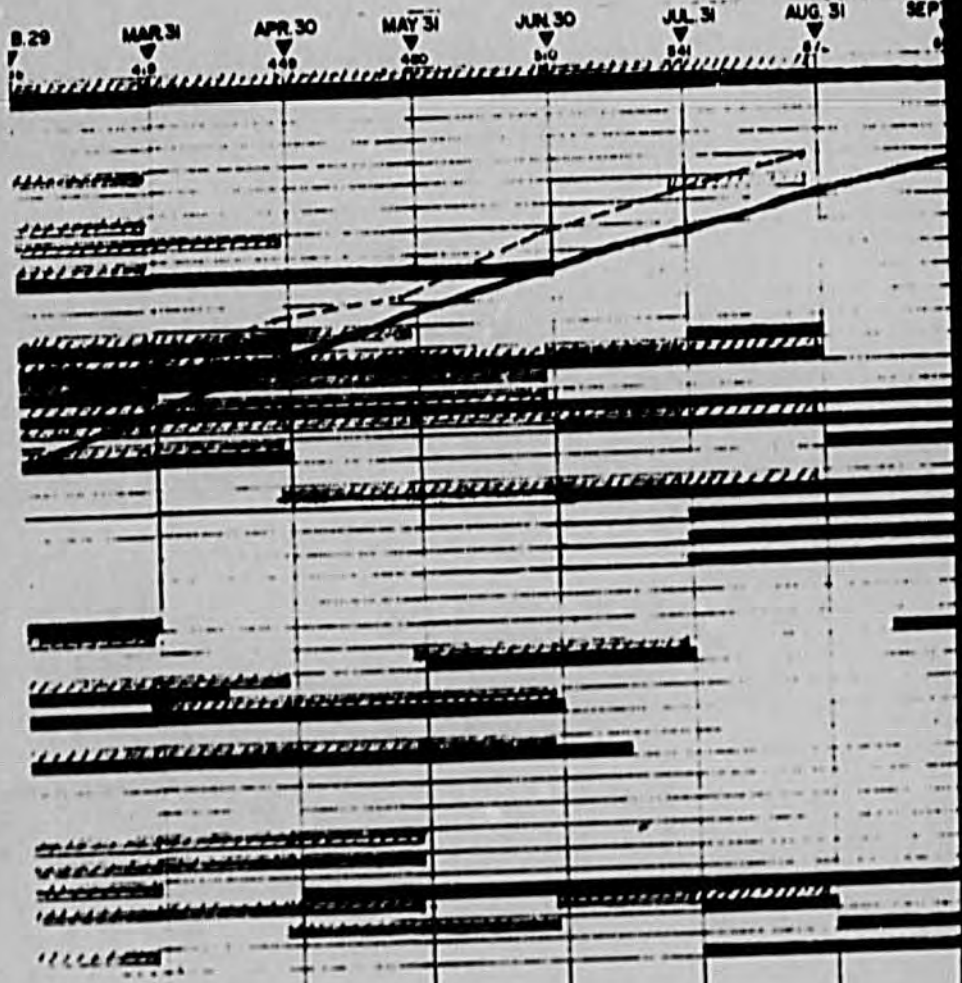
MINALABAC - ANTIP



181,000.32	299,106.12	337,731.12	459,411.11	459,411.11	466,973.69	519,090.36	3
	480,106.84	817,837.96	1,277,249.07	1,736,660.18	2,203,633.87	2,722,724.23	3,0

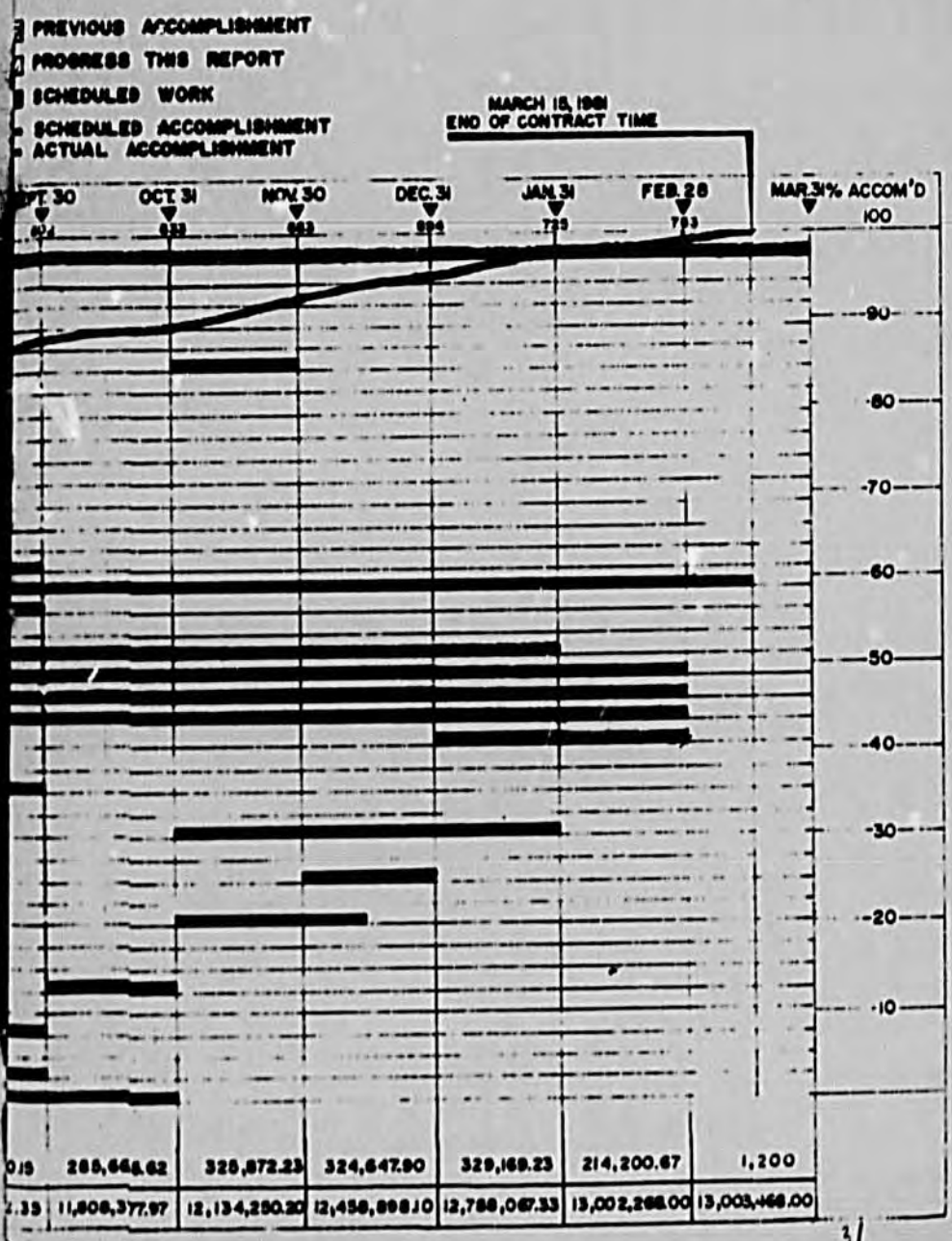
)RK AS OF AUGUST 8,1980 1st REVISION
OF
NTIPOLO – HUBO ROAD





1,177,181.39	720,282.53	727,635.61	733,013.11	605,581.96	543,149.79	443,660.15
7,749,369.20	8,469,651.73	9,197,[illegible]87.34	9,930,300.45	10,535,882.41	11,079,032.20	11,522,712.3[illegible]

30



0.19	285,646.62	325,872.23	324,647.90	329,169.23	214,200.67	1,200
2.33	11,808,377.97	12,134,250.20	12,458,898.10	12,788,067.33	13,002,268.00	13,003,468.00

BICOL RIVER BASIN DEVELOPMENT PROJECT

(ROAD COMPONENTS)

MANPOWER SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVISION

PACKAGE II

NAMES	POSITION	DEC	JAN	1 FEB	2 MAR	3 APR	4 MAY	5 JUN	6 JUL	7 AUG	8 SEPT	9 OCT	10 NOV	11 DEC (1979)	12 JAN	13 FEB	14 MAR	15 APR	16 MAY	17 JUN	18 JUL	19 AUG (1980)	MEN MONTHS
A. E. BANDELARIA	DEPUTY PROJ. MGR.																						12
L. D. MAYOR	SR. HWY. ENGR. / R.E.																						18
F. G. OBUSAN	SR. BR. ENGR. / R.E																						18
M. D. LACSAMANA	SR. LOC. ENGR. / R.E.																						18
J. A. TORRALBA	SR. MATL'S ENGR./R.E.																						18
F. C. ROSALES	ADM. OFFICER																						18
L. P. JOSE	CLERK TYPIST																						18
T. S. SABABAN	MES'R JANITOR																						18
																						SUB-TOTAL	156
SUB-PROJECT NO. 4, MINALABAC-ANTIPOLO-HUBO ROAD																							
J. A. TORRALBA	SR. MATL'S ENGR/R.E.							(INCLUDED IN KEY STAFF)															18
V. E. PARIS	ENGR. INSP. (HWY)																						18
E.C. FORTALEZA	ENGR. INSP (BRIDGE)																						14
C.C. ORTIZ	MATL. ENGR.																						18
A. E. BANDELARIA	SURVEYOR/DRAFTSMAN																						18
A. M. ABOGA	LAB TECHNICIAN																						18
M.L. SANTIANO	CLERK / TYPIST																						18
[illegible] BABUTAP	JANITOR / MESSENGER																						18
R. M. ABANTE	LABORER																						18
																						SUB-TOTAL	166

Bicol River Basin Development Project

Se ndary and Feeder Roads

PACKAGE II

PILI-MATAGROC ROAD PROJECT

Sub-Project No. 5

MONTHLY CONSTRUCTION REPORT
NO. 24

Prepared by:

FRANCISCO G. [illegible]
Sr. Dr. Engr./[illegible] Engr.

Submitted by:

AMADO E. BANDELARIA
Deputy Project Manager

PROGRESS REPORT NO. 24

August, 1980

PROJECT: PILI-MATACROC ROAD PROJECT (Secondary and Feeder Roads)
SUB*PROJECT NO. 5

1. GENERAL

This project consist of the construction of the following:

1) Secondary Road - 8.988 kms., from sta. 0+000 to sta 9+144.70. This road begins from the end of the 2 km. concrete road intersecting with the Manila South Road at about ½ km from Pili, going to Naga. Its end is at Baliwag Viejo, Minalabac Camarines Sur, a barrio dependent on water transportation via Bicol River before this project came to reality. As per plan, the entire Secondary Road shall be asphlated with 6.10 meters wide pavement. Drainage structures consist of RCP's of different sizes at different stations, one (1) span 10M RCDC at sta 3+398.71 and 4 - 0.80 x 0.80 M RCDC's.

2. Matacroc-Mamamo*Baliwag, Feeder Road 501 - 7.135 kms., from sta 0+003.05 to sta 7+246.63. The beginning of the project is at sta 1+950 of the Secondary Road and ends at the end of same Secondary Road. A gravel road surface 4.00M wide with 1.00M shoulders is to be done which traverses mostly ricefields. This Feeder road has the most number of drainage structures which consist of RCP's of different sizes at different stations, two-three span. One (1) single span and one-17 span timber trestle bridges.

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3. Sagrada - San Isidro, Feeder Road 502 - 2.056 kms., from sta 0+029.05 to sta 2+084.96 with its beginning at sta 3+572 of the Secondary Road and end at barrio San Isidro, Bula, Camarines Sur, joining with another road project. A gravel road surface 4.00M wide with 1.00M shoulder is to be done which traverses ricefields. This feeder road has five lines of RCP's, 1 - 0.80 x 0.80 M RCBC and 1-3 span timber trestle bridge.

4. Manapao-Malitbog, Feeder Road 503 - 1.518 kms., from sta 0+077.04 to sta 1+594.75 with its beginning at sta 3+884 of Feeder Road 501 and is the only road that dies not join with another road project although its end is adjacent to one. A gravel road surface 4.00M wide with 1.00M shoulders is to be constructed which passes through ricefields. Drainage structures consist of RCP's of different sizes at different stations and 1-0.80 x 0.80M and 2.10 RCBC's.

5. San Jose - San Ramon, Feeder Road 504 - 1.961 kms., from sta 0+114.09 to sta 1+998.27 with its beginning at sta 6+710 at the Secondary Road and ends at barrio San Ramon, Bula, Camarines Sur, joining with another Road Project. A gravel road surface 4.00M wide with 1.00M shoulders is to be constructed which also passes through ricefields, drainage structures consist of RCP's at different sizes at different stations, 1-0.80 x 0.80 RCBC and 1-2 span timber trestle bridge.

II. PROGRESS

Overall progress this month is slow. The main activity is in structures in Feeder Roads No. 501, 502 and 503. Work accomplished to date is 92.19340with a time elasped of 86.15980 %

ROAD	% Accomplished to Date
1. Secondary Road	45.26 %
2. Matacroc-Manapao-Baliwag,FR 501	31.55 %
3. Sagrada-San Isidro, FR 502	5.94 %
4. Manapao-Malitbog, FR 503	4.69 %
5. San-Jose-San Ramon, FR 504	4.75 %

1. GENERAL (Secondary & Feeder Roads

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

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

Construction Survey

Staking for placing of RROW monuments from sta 0+000 to sta. 7+700.

Earthwork

No activity during the month.

Subbase and Base

No activity during the month.

Surfacing

No activity during the month.

Structures

No activity during the month.

Physical Accomplishment as of August 25, 1970

a. Roads	Bridges
Subgrade-7.900 Km	Sub-structures- 10 LM RC
Subbase -7.200 Km	Abut on RC piles
Base -5.365 Km	Superstructure - 1 span 10 LM RCDG
Surfacing - none	

Drainage and Erosion Works

The following pipes have been installed as of August 25, 1970.

SIZE Ø	RCP INSTALLED (L.M.) Prev.Mo.	This Mo.	Total	Remarks
0.30	104.40	-	104.40	
0.46	114.00	-	114.00	
0.61	62.40	-	62.40	
0.91	214.80	-	214.80	
1.20	90.00	-	90.0	

STATION	NUMBER	SIZE	LENGTH
0 + 552.00	5	0.30 M	6.00 M
1 + 013.37	12	0.30 M	14.40 M
1 + 376.30	10	0.30 M	12.00 M
7 + 0.10.00	1	0.30 M	13.20 M
7 + 525.00	11	0.30 M	13.20 M
8 + 210.00	11	0.30 M	13.20 M
8 + 812.00	13	0.30 M	15.60 M
8 + 955.25	14	0.30 M	16.80 M
Total	87		104.40 M

3,8

STATION	NUMBER	SIZE	LENGTH
2 + 912.00	10	0.46M	12.00M
4 + 535.00	10	0.46M	12.00M
4 + 825.00	10	0.46M	12.00M
6 + 100.00	9	0.46M	10.80M
6 + 315.	11	0.46M	13.20M
7 + 275.00	11	0.46M	13.20M
7 + 407.00	11	0.46M	13.20M
7 + 850.00	12	0.46M	14.40M
8 + 010.00	11	0.46M	13.20M
Total	95		114.00M

0 + 100.00	10	0.61M	12.00M
0 + 300.00	10	0.61M	12.00M
1 + 625.00	10	0.61M	12.00M
3 + 100.00	10	0.61M	12.00M
3 + 525.00	12	0.61M	14.40M
Total	52		62.40M

0 + 750.00	10	0.91M	12.00M
1 + 107.39	10	0.91M	12.00M
1 + 206.70	10	0.91M	12.00M
1 + 993.10	8	0.91M	9.60
2 + 103.42	10	0.91M	12.00M
2 + 358.52	10	0.91M	12.00M
4 + 700.00	10	0.91M	12.00M
5 + 175.00	14	0.91M	16.80M
5 + 350.00	12	0.91M	14.40M
5 + 425.00	10	0.91M	12.00M
6 + 950.00	11	0.91M	13.20M
7 + 475.00	14	0.91M	16.80M
8 + 475.00	13	0.91M	15.60M
7 + 710.00	12	0.91M	14.40M
Total	179		214.80M

2 + 760.00	12	1.20M	14.40M
5 + 000.00	11	1.20M	13.20M
6 + 625.00	14	1.20M	16.80M
9 + 000.00	12	1.20M	14.40M

6. Materials Testing and Control

ITEM No.	KIND OF TESTS	No. of Tests Prev.	No. This No.	Total
105-a	Grading	7	-	7
	PL & LL	7	-	7
	Compaction	7	-	7
	F. Density	-	-	-
105-b	Grading	2	-	2
	PL & LL	2	-	2
106	Grading	1	-	1
	PL & LL	1	-	1
	Compaction	1	-	1
	F. Density	1	-	1
107	Grading	100	-	100
	PL & LL	100	-	100
	Compaction	100	-	100
	F. Density	783	-	783
110	PL & LL	1	-	1
	Grading	1	-	1
200	PL & LL	23		23
	Grading	23		23
	Compaction	23		23
	F. Density	27		27
	Sp. Gravity	1	-	1
108	Grading	92	-	92
	PL & LL	92	-	92
	Compaction	92	-	92
	F. Density	252	-	252

402-2.5 (F.A.)	Grading	4	-	4
	Sp. Gravity	1	-	1
	Unit Wt.	1	-	1
402-2.5	Grading	4	-	4
	Sp. Gravity	1	-	1
	Unit Wt.	1	-	1
405 - A	Design Mix	2	-	2
405-2.3 (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 Wt.	1	-	1
413 (C.A.)	Grading	5	-	5
	Sp. Gravity	1	-	1
	Unit Wt.	1	-	1

DATE	LOCATION OF STRUCTURE	RESULT AFTER 28 days	Remarks
11-4-78	12" Ø R C P	3060	Passed
-do-	-do-	3450	-do-
-do-	-do-	3520	-do-
11-12-78	18" Ø R C P	3145	-do-
-do-	-do-	3415	-do-
11-18-78	36" Ø R C P	2871	Failure
-do-	-do-	3020	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 mataoroc-manapao bridge	3680	Passed
-do-	-do-	3840	Passed
-do-	-do-	3920	Passed
11-25-78	24" Ø R C P	3090	Passed
-do-	-do-	3138	-do-
11-28-78	36" Ø R C P	3111	Passed
-do-	-do-	3334	-do-
12-16-78	48" Ø R C P	3377	-do-
-do-	-do-	3397	-do-
-do-	-do-	3425	-do-
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	-do-
-do-	-do-	3332	-do-
-do-	-do-	3411	-do-
2-15-79	48" Ø R C P	3000	-do-
-do-	-do-	3040	-do-
-do-	-do-	3087	-do-
2-16-79	12" Ø R C P	3010	-do-
-do-	-do-	3444	-do-
-do-	-do-	3516	-do-
3-13-79	RCP, RCDG, SAGRADA BRIDGE	3562	-do-
-do-	-do-	3843	-do-
-do-	-do-	4108	-do-

DATE	Location of STRUCTURE	Result after 28 Days	Remarks
3/13/79	24" ø RCP	3,740	Passed
-do-	-do-	3,252	-do-
-do-	-do-	2,814	Failure
3/20/79	36" ø RCP	3,462	Passed
-do-	-do-	3,149	Passed
-do-	-do-	3,432	Passed
3/23/79	48" ø RCP	2,979	Failure
-do-	-do-	3,318	Passed
-do-	-do-	3,410	Passed
4/2/79	18" ø RCP	3,065(15days)	Passed
-do-	-do-	3,243 -do-	-do-
-do-	-do-	3,255 -do-	-do-
5/5/79	36" ø RCP	3,106(12days)	Satisfactory)
-do-	-do-	3,420 -do-	Satisfactory
-do-	-do-	3,526 -do-	-do-
5/7/79	48" ø RCP	3,296(33days)	-do-
-do-	-do-	2,748 -do-	Failure
5/9/79	18" ø RCP	3,623(31days)	Satisfactory
5/12/79	36" ø RCP	2,830	Failure
-do-	-do-	2,655	-do-
-do-	-do-	2,604	-do-
5/17/79	36" ø RCP	2,892(23 days)	Satisfactory
-do-	-do-	2,970Ave.2936	Satisfactory
-do-	-do-	2,946	-do-
5/19/79	12" ø RCP	3,202(21days)	Passed
-do-	-do-	2,989 3028	Compressive
-do-	-do-	2,892	strength requirement
6/7/79	Abutment "A" Sagrada Br.	3,382(32days)	Passed compressive
-do-	-do-	3,125 Ave.3,389	Strength requirement
-do-	-do-	3,661	
6/23/79	Abutment A&B Sagrada Br.	3,358(20days)	
-do-	Backwall & Wingwall	2,799 Ave.3,182	-do-
-do-	-do-	3,389	
7/10/79	36" ø RCP	2,799 Ave.3,431	-do-
-do-	-do-	4,245	
-do-	-do-	3,167	
7/12/79	48" ø RCP	3,856(18days)	
-do-	-do-	3,452 Ave.3,825	-do-
-do-	-do-	4,167	
7/18/79	18" ø RCP	2,892(14days)	Satisfactory
-do-	-do-	2,923Ave.2,853	for 23 days
-do-	-do-	2,744	

8-4-79	Item 405		Passed compressive
-do-	Sagrada Bridge	3,415	Strength requirement
-do-	(Girders)		
8-4-79	Test Pile FR #501		
-do-	TTr Br. Sta. 0+218		Passed compressive
	0+224	3,260	Strength requirement
	-do-		
8-6-79	Test Pile FR#501		
-do-	TTr Br. Sta. 1+367-1+385	2,565	Failure
-do-	-do-		
8-10-79	Item 405		
-do-	Sagrada Bridge	3,295	Passed compressive
-do-	(Slab)		Strength requirement
8-21-79	Sagrada Bridge		Passed compressive
-do-	Railing	3,439	Strength requirement
-do-	-do-		
8-25-79	Test Pile for TbTe		
-do-	sta.1+880 FR 502	3,478	-do-
-do-	-do-		
8-28-79	RCBC, Sta. 4+000		
-do-	-do-	3,322	-do-
-do-			
9-1-79	Test Pile for TbTe		
-do-	sta. 1+433 FR 504	3,485 (55 days)	-do-
-do-	-do-		
9-28-79	RCP, 0.91 M Ø		
-do-	-do-	3,156 (27 days)	-do-
-do-	-do-		
10-12-79	RCP, 0.30 M Ø		
-do-	-do-	3,195 (13 days)	-do-
-do-	-do-		
10-12-79	RCP, 0.61 M Ø	3,247 (13 days)	-do-

10-15-79	RCP, 0.61 M Ø		
-do-	-do-	3,021 (days)	Satisfactory
-do-	-do-		
10-16-79	RCP, 0.30 M Ø	3,060 (9days)	Satisfactory
-do-	-do-		
11-7-79	RCP, 1.20 M Ø	3,250 (15days)	Passed compressive strength requirement
-do-	-do-		
11-10-79	RCP, 0.46 M Ø	3,174 (12 days)	-do-
-do-	-do-		-do-
-do-	-do-		
11-11-79	RCP, 1.20 M Ø		
-do-	-do-	3,212 (11 days)	-do-
-do-	-do-		
11-15-79	RCBC Km. + 417.50	3,107 (19days)	Passed compressive strength requirement
-do-	F.D 504 San Jose-San Ramon		
-do-	-do-		
11-22-79	Headwall, Km. 6+ 950	2,838 (12days)	Passed compressive strength requirement for 28 days
11-23-79	Headwall Km. 9 + 400	2,910 (11 days)	-do-
-do-	Secondary Road		
-do-	-do-		
12-6-79	RCBC Km. 5 + 975	3,133 (36days)	Passed compressive strength requirement
-do-	Secondary Road		
-do-	-do-		
12/10-79	RCBC Km. 4 + 200	3,154 (32days)	Passed compressive strength requirement
-do-	Secondary Road		
-do-	-do-		
12-11-79	18" Ø R C P	3,488 (31days)	-do-
-do-	-do-		
-do-	-do-		
12-12-79	48" Ø R C P	3,418 (30 days)	-do-
-do-	-do		
-do-	-do		
1-7-80	Bearing Piles	3,268 (32 days)	
-do-	-do-		
-do-	-do-		
1-9-80	48" Ø R C P	3,366 (30 days)	
-do-	-do-		
-do-	-do-		

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2/3/80 -do- -do-	Bearing pile, Km.1+404-442. FDR # 504	Ave.3,369 (33days)	Passed compressive strength requirement
3/3/80 -do- -do-	Capping #2-3, Km.1+871-889 FDR # 502	Ave.3,200 (30days)	-do-
3/4/80 -do- -do-	Capping #1-4, Km.1+871-889 FDR#502	Ave.3,161 (29 days)	-do-
3/5/80 -do-	Headwall, Km.1+993.10 Secondary Road	Ave.3,261 (28 days)	-do-
3/5/80	Wingwall, Km.4-000 Secondary Road	3,226 (28 days)	-do-
3/7/80	Headwall Km. 0+650 FDR # 501	3,164 (26 days)	-do-
3/7/80 -do-	Headwall, Km. 0+348 FDR # 501	3,172 (26 days)	-do-
3/20/80 -do- -do-	12" ø RCP -do- -do-	Ave.3,203 (13 days)	-do-
2/25/80 -do- -do-	Capping #1,2 4, Km.1+424 FDR # 504	Ave.3,299 (23 days)	-do-
3/28/80 -do- -do-	Capping #3 Km.1+424 FDR # 504	Ave.3,203 (20 days)	-do-
3/28/80 -do- -do-	Headwalls Km. 3+150 FDR # 501	Ave.3,321 (20 days)	-do-
3/31/80 -do- -do-	TEST PILE, Km.[illegible].00 FDR #501, [illegible] SIDE	Ave.3,190 (17 days)	-do-
4/1/80 -do-	TEST PILE, Km.6+045.00 FDR #501, [illegible] SIDE	Ave.3,210 (16 days)	-do-

4/12/80	Bearing Pile, Km.1+367.00		Passed compressive
-do-	Fr. 501	Ave.3249 (34 days)	Strength requiremen
-do-			
4/15/80	0.61m. Ø RCP	Ave.3332 (31 days)	-do-
-do-			
-do-			
4/17/80	HW, Km.4+750.00	3,203 (29 days)	-do-
	FR.		
4/23/80	HW, KM.2+257.00	Ave.3,057 (23 days)	-do-
-do-	FR 501		
-do-			
4/26/80	Capping, Km 0+224.00	Ave.3,146 (20 days)	-do-
-do-	FR 501		
-do-			
5/1/80	Headwall, Km 0+750		
-do-	FR 503	Ave.3,011 (15 days)	-do-
-do-	FR 503		
5/3/80	Headwall, Km 0+500	Ave.3,068 (13 days)	-do-
-do-	FR 503		
-do-			
5/8/80	Bearing Pile, Km0+084.00	Ave.3,399	-do-
	FR 501	(33days)	
-do-	-do-	-do-	
-do-	-do-	-do-	-do-
5/10/80	Pile Cap. Km.1+367.00	Ave.3,791	
	FR 501	(31 days)	-do-
-do-	-do-	-do-	-do-
-do-	-do-	-do-	-do-
5/16/80	Headwall Km5-500.00	Ave.3099	-do-
	FR 501	(25 days)	
-do-	-do-	-do-	-do-
-do-	-do-	-do-	-do-

Additional this month

RCBC	1	6/10/80	FR #504,sta.0+301	8/18/80	69	3,623	Ave.	Passed compresive
	2	-do-	-do-	-do-	69	3,747	3,6415	strenth requirement
	3	-do-	-do-	-do-	69	3,553	(22091 psi 28 days)	
RCBC	1	6/4/80	FR.#502 sta0+493	8/18/80	65	3,400		
	2	-do-	-do-	-do-	65	3,522	3,488	Passed compressive
	3	-do-	-do-	-do-	65	3,459		strength requirement
P.C	1	7/11/80	Pile Bent 364 FR.	5/18/80	38	3,249		
	2	-do-	501 -sta6+045-6+147	-do-	38	3,397	3,314	-do-
	3	-do-	-do-	-do-	38	3,296		-do-
P.C.	1	7/17/80	Pile Bent, FR.#501	8/18/80	32	3,312		
	2	-do-	[illegible] 045.6+147	-do-	32	3,133	3,224	-do-
	3	-do-	-do-	-do-	32	3,226		

II. b ROADS, BRIDGES AND DRAINAGE STRUCTURES

(Matacroo-Manapao-Baliwag, Feeder Road 501)

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase

No activity during the month.

Structures

1. Place concrete class "A" for coping of pile Bents Nos. 1,2 and 10 to 18 of TbTe bridge at sta 6+096.
2. Construct superstructure of TbTe bridge at sta 0+066, 0+221 and 6+ 096.

Physical Accomplishment as of August 25, 1980

a. Roads

subgrade - 6.790
subbase - 4.900
base
surfacing

b. Bridges

substructure - 24 span
6 LM TbTe bridge on RC Abut.
superstructure - 9 span
6 LM TbTe br. on RC Abut.

Drainage & Erosion Works

The following pipes have been installed as of August 25, 1980

SIZE	RCP Installed (LM) Prev.Mo.	This Mo.	Total	Remarks
0.30	54.00	-	54.00	
0.46	98.40	-	98.40	
0.61	9.60	-	9.60	
0.91	54.00	-	54.00	
1.20	219.60	-	219.60	

STATION	NUMBER	SIZE	LENGTH
1 + 727.00	8	0.30 M	9.60 meters
2 + 147.00	6	0.30 M	7.20 "
2 + 587.00	6	0.30 M	7.20 "
2 + 656.00	6	0.30 M	7.20 "
2 + 800.00	6	0.30 M	7.20 "
4 + 495.00	13	0.30 M	15.60 "
T O T A L	45		54.00 meters
1 + 775.00	8	0.46 M	9.60 "
3 + 749.50	4	0.46 M	4.80 "
3 + 908.00	9	0.46 M	10.80 "
4 + 140.00	9	0.46 M	10.80 "
5 + 754.00	9	0.46 M	10.80 "
6 + 320.00	13	0.46 M	15.60 "
6 + 473.00	11	0.46 M	13.20 "
7 + 034.00	10	0.46 M	12.00 "
7 + 163.00	9	0.46 M	10.80 "
T O T A L	82		98.40 "
2 + 013.00	[illegible]	0.61 M	9.60 meters
0 + 650.00	9	0.91 M	10.80 "
1 + 550.00	10	0.91 M	12.00 "
3 + 150.00	9	0.91 M	10.80 "
3 + 034.00	9	0.91 M	10.80 "
4 + 750.00	8	0.91 M	9.60 "
T O T A L	45		54.00 meters
0 + 840.00	11	1.20 M	13.20 "
1 + 114.50 20	14	1.20 M 20	16.80 "
2 + 257.00	10	1.20 M	12.00 "
2 + 440.00 20	12	1.20 M 20	14.40 "
5 + 500.00	9	1.20 M	10.80 "
5 + 703.20	10	1.20 M	12.00 "
5 + 951.40	10	1.20 M	12.00 "
6 + 000.00	9	1.20 M	10.80 "
6 + 710.00	9	1.20 M	10.80 "
6 + 900.00	10	1.20 M	12.00 "
7 + 050.00	10	1.20 M	12.00 "
6 + 200.00	10	1.20 M	12.00 "
6 + 410.00	11	1.20 M	12.00 "
6 + 580.00 20	11	1.20 M 20	13.20 "
T O T A L	183		219.60 meters

Materials Testing and Control

ITEM	KIND OF TEST	NUMBER OF TEST Prev. No.	This No.	Total	REMARKS
107	Grading	53	-	53	
	PL & LL	53	-	53	
	Compaction	53	-	53	
	F. Density	249	-	249	
105	Grading	1	-	1	
	PL & LL	1	-	1	
	Compaction	1	-	1	
	F. Density	4	-	4	
105-b	Grading	4	-	4	
	PL & LL	4	-	4	
108	Grading	16	-	16	
	PL & LL	16	-	16	
	Compaction	16	-	16	
	F. Density	51	-	51	
402-2.2	Grading	2	-	2	
402-2.3	Grading		-		
	Design Mix		-		
405-2.2	Grading	-	2	2	
405-2.3	Grading	-	2	2	

II. c **ROADS, BRIDGES AND DRAINAGE STRUCTURES**

(Sagrada-San Isidro, Feeder Road No. 502)

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase and Base

No activity during the month.

Structures

Construct substructure of timber trestle bridge at sta 1+880.

Physical Accomplishment

a. Roads	Bridges
subgrade - 2.037	substructure - 3 span
subbase - 1.800	6 LM TbTe bridge on RC Abutment
base	superstructure - 3 span 6 LM TbTe bridge on RC Abut.
surfacing	

Drainage & Erosion Works

The following pipes have been installed as of August 25, 1980

SIZE	RCP INSTALLED (LM) Prev. Mo.	This Mo.	Total
0.46	9.60	-	9.60
0.61	21.60	-	21.60
1.20	9.60	-	9.60

STATION	NUMBER	SIZE	LENGTH
0 + 616.00	8	0.46 M	9.60 M
0 + 050.00	10	0.61 M	12.00 M
1 + 146.00	8	0.61 M	9.60 M
Total	18		21.60 M
1 + 563.00 2 C	8	1.20 M	9.60 M

Materials Testing and Control

ITEM NO.	KIND OF TEST	Number of Test Prev. No.	This No.	Total
105-B	Grading	1	-	1
	LL & PL	1	-	1
107	Grading	12	-	12
	LL & PL	12	-	12
	Compaction	12	-	12
	F. Density	110	-	110
405-2.2 (FA)	Grading	2	-	2
504-2.3 (CA)	Grading	2	-	2
405 cl. "C"	Design Mix	2	-	2
402-7.5	Test File Report	1	-	1
103	Grading	2	-	2
	LL & PL	2		2
	Compaction	6		6

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II. d ROADS, BRIDGES AND DRAINAGE STRUCTURES

(Manapao-Malitbog, Feeder Road No. 503)

Construction Survey

Place invert elevation for RCDC's at sta.0+160 and sta. 0+535.70

Earthwork

Excavate for the 2-1.0x2.10 RCDC at sta 0+160

Subbase

No activity during the month.

Structures

1. Construct 0.[illegible]0 x 0.[illegible]0 x [illegible].00M RCDC at sta. 0+535.70
2. Framework Steelwork for 2-1.[illegible]0 x 2.10 M RCDC at sta. 0 + 160.

Physical Accomplishment

a. Roads
   Subgrade - 1.4[illegible]3
   Subbase - [illegible]
   Base
   Surfacing

b. Bridges
   Substructure
   Superstructure

Drainage and Erosion Works

The following pipes have been installed as of August 25, 1[illegible]0.

SIZE	RCP INSTALLED (LM) Prev.Mo.	This Mo.	Total
0.46	-	24.00	24.00
0.61	32.40	-	32.40
0.91	10.[illegible]0	-	10.[illegible]0
1.20	21.60	-	21.60

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STATION	NUMBER	SIZE	LENGTH
0 + 500.00	9	0.61M	10.80M
0 + 775.00	9	0.61M	10.80M
0 + 552.00	9	0.61M	10.80M
Total	27		32.40M
0 + 246.00	10	0.46M	12.00M
0 + 343.00	10	0.46M	12.00M
Total	20		24.00M
0 + 050.00	9	0.91M	10.80M
0 + 927.00	9	1.20M	10.80M
0 + 106.00	9	1.20 M	10.80M
Total	18		21.60M

Materials Testing and Control

ITEM NO.	KIND OF TEST	KIND OF TEST Prev.No.	This No.	Total
107	Grading	12	-	12
	PL & LL	12	-	12
	Compaction	12	-	12
	F. Density	42	-	42
105-B	Grading	2	-	2
	LL & PL	2	-	2
108	Grading	5	-	5
	PL & LL	5	-	5
	Compaction	5	-	5
	F. Density	15	-	15

II. e **ROADS, BRIDGES AND DRAINAGE STRUCTURES**

(San Jose-San Ramon, Feeder Road No. 504)

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase & Base

No activity during the month.

Structures

No activity during the month.

Physical Accomplishment

a. Roads	Bridge
Subgrade - 1.943	Substructure - 3 span
Subbase - 1.940	6 LM TbTe bridge on RC Abut

Drainage & Erosion Works

The following pipes have been installed as of August 25, 1980.

Drainage and Erosion Works

The following pipes have been installed as of June 25, 1980

SIZE Ø	RCP Installed Pref. No.	This No.	Total	REMARKS
0.60	21.60		21.60	
0.90	21.60		21.60	
1.20	9.60		9.60	

STATION	NUMBER	SIZE	LENGTH
0 + 752.00	8	0.61 M	9.60 M
0 + 860.00	10	0.61 M	12.00 M
Total	18		21.60 M
0 + 000.00	10	0.91 M	12.00 M
0 + 550.00	8	0.91 M	9.60 M
Total	8		21.60 M
0 + 325.00	8	1.20 M	9.60 M

Materials Testing and Control

ITEM NO.	KIND OF TESTS	NO. OF TESTS Prev. No.	This No.	Total
105-A	Grading	6	-	6
	PL & LL	6	-	6
	Compaction	6	-	6
	F. Density	32	-	32
107	Grading	4	-	4
	PL & LL	4	-	4
	Compaction	4	-	4
	F. Density	21	-	21
108	Grading	9	-	9
	PL & LL	9	-	9
	Compaction	9	-	9
	F. Density	23	-	23
402-2.2 (FA)	Grading	2	-	2
405-2.2 (CA)	Grading	2	-	2
405 - C	Design Mix	1	-	1

III. SUMMARY OF PHYSICAL ACCOMPLISHMENT TO DATE

a. Roads	Secondary Road	Feeder Roads
Sub-grade	8.988 km.	12.263 km.
Subbase	8.200 km.	9.538 km.
Base	5.365 km	none
Surfacing	none	none

b. Bridges		
Substructure	10 LM R.C.	180 L.M. R.C.
Superstructure	10 LM RCDG	72 L.M. TbTe

Comments and Recommendation

Construction activities was concentrated on structures only, and work on other items was affected by the unfavorable weather during the later half of the month.

WEATHER REPORT
Project: PILI*MATAOROC ROAD PROJECT
Sub-Project No. 5

Date 1950	Weather	Remarks	Time Extension Recommended
July 26	Intermittent rain	Still unworkable	One(1) day
27	Fair	Workable	none
28	Fair	Workable	none
29	Fair	Workable	none
30	Fair	Workable	none
31	Fair to cloudy	Workable	none
Aug. 1	Fair w/ light rain	Workable	none
2	Fair	Workable	none
3	Fair to cloudy	Workable	none
4	Fair to cloudy	Workable	none
5	Fair w/ seasonal rain	Workable	none
6	Fair to cloudy w/ PM rain	Workable	none
7	Fair to cloudy	Workable	none
8	Rainy	Unworkable	One (1) day
9	Cloudy AM, rainy PM	Unworkable	One (1) day
10	Intermittent rain	Unworkable	One (1) day
11	Fair	Workable	none
12	Fair	Workable	none
13	Fair	Workable	none
14	Fair to cloudy	Workable	none
15	Rainy	Unworkable	One (1) day
16	Cloudy w/ heavy rain early PM	Unworkable	One (1) day
17	-do-	-do-	-do-
18	Cloudy w/ intermittent rain	Unworkable	One (1) day
19	Fair to cloudy AM, heavy rain in PM	Unworkable	One (1) day
20	-do-	Unworkable	One (1)day
21	Cloudy w/ occasional rain, ground wet	Unworkable	One (1)day
22	Cloudy AM, heavy rain in PM	Unworkable	One (1)day
23	Cloudy AM, rainy PM	Unworkable	One (1)day
24	-do-	-do-	-do-
25	Intermittent rain	Unworkable	One (1)day

Total Extension of Time Recommended this month- - 30 days
Total Extension of Time Recommended Previously - 251 days
Grand Total to date - - - - - - - - - - - - - - - - 281 days

Date of effectivity of contract - - September 1[illegible], 1[illegible]

*Includes 15 days time extension for installation of additional line of R.C. pipes (Change Order No. 2)

BICOL RIVER BASIN DEVELOPMENT PROGRAM OFFICE
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONTRACTOR A.B. AGUINALDO CONST. INC.

For the Month of August 1980

	Administrative Finance	Engineering Technical	Skilled	Unskilled
Manila - Based 1/	4	1	3	0
Local - Hired 2/	0	7	18	6
Sub-Contractors 3/	0	0	0	0
T o t a l	4	8	21	6

1/ Includes permanent employees

2/ Employees residing w/in the Basin Area

3/ Local Hired Only

Submitted by:

Emilio G. Angeles
Project Engineer

pure/*

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A. B. AGUINALDO CONSTRUCTION, INC.
Pili-Matacroo Road Project
Sub-Project No.5, Package II, BRBDP
Tagbong, Pili, Camarines Sur

LIST OF PERSONNEL
As of August, 1980

Name	Position	Qualification
I. TECHNICAL STAFF		
1. Ramon Bautista	Project Manager	Civil Engineer
2. Emilio Angeles	Project Engineer	-do-
3. Emiliano Galvez	Mechanical Engineer	Mechanical Engineer
4. Eduardo Lopez	CE Aide	Experienced
5. Antonio Alapan	Const. Foreman	-do-
II. Administrative Staff		
1. Remegio Espada	Adm. Officer	A.B. Graduate
2. Rosemna Espada	Clerk/Typist	Experienced
3. Mario Yulip	Courier	-do-
4. Antonio Lapastora	Materials Checker	-do-
III Mechanical Department		
1. George Magsalang	Shop Supervisor	Experienced
2. Quirico Marjolino, Jr.	Mechanic	-do-
3. Victor Sandagon	Batteryman	-do-
4. Wenceslao Belano	Tireman	-do-
5. Melchor Serrano	Fuel Tender	-do-
IV DRIVERS		
1. Benjamin Ocrero	D.T. Driver	Experienced
2. Roden Jayco	Service Driver	-do-
3. Flor Barra	-do-	-do-

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V. SURVEY TEAM

1. Pedro Collada	Instrument Man	Experienced
2. Santos Temporal	Chainman	-do-
3. Pedro Olivares	Survey Aide	-do-

VI. LABORATORY

1. Santiago Nacario	Laboratory	Experienced
2. Pedro Preconcillo	-do-	-do-

VII. HEAVY EQUIPMENT OPERATORS

1. Virgilio Tosposo	Crusher Operator	Experienced
2. Quintin Elemos	Crane Operator	-do-
3. Lemeul Moreno	Bulldozer Operator	-dO-
4. Pedro Custerio	Dynapac Operator	-do-
5. Jose Harochoc	Grader Operator	-do-

VIII. BRIDGE GANG

1. Romulo Villaluz	Riggerman	Experienced
2. Armando Asma	-do-	-do-
3. Onopre Fernandez	Carpenter/Mason	-do-
4. Gaudencio Larcena	-do-	-do-
5. Juan Paldo	-do-	-do-
6. Primitivo Elemos	-do-	-do-
7. Domingo Junio	-do-	-do-
8. Jose Babila	-do-	-do-
9. Inocencio Almonte	Laborer	-do-
10. Vicente Calongui	-do-	-do-
11. Resirrecion Beria	-do-	-do-
12. Ramon Adores	-do-	-do-
13. Ernesto Bata	-do-	-do-
14. Salvador Dawal	-do-	-do-

Annex "B"

A. B. AGUINALDO CONSTRUCTION, INC.
Pili-Matacroc Road Project
Sub-Project No. 5
Pili-Camarines Sur

LIST OF EQUIPMENTS
As of August, 1980

1 unit - Bulldozer D7 Caterpillar

1 unit - Rayloader, 950 Caterpillar

1 unit - 32 - Ton Truck Mounted Crane

1 unit - Road Grader, Caterpillar

1 unit - Kobe - 25 Pile Hammer

1 unit - Welding Machine, Continental

1 unit - Self-propelled vibro compactor, Dynapac CA-25

1 unit - Generator, 3 KW, Yammar Diesel Engine driven

1 unit - ½ HP Goulds Water pump, 4 HP Kholer engine driven

1 unit - 1 Bagger Concrete Mixer

1 unit - Bar Cutter

1 unit - 1½ Ton Drop Hammer

3 units - Toyota Hi-Lux (Service Vehicle)

1 unit - 6 -Wheeler Dump Truck, Isuzu

2 units - 10 wheeler dump truck, Isuzu

1 unit - Rock crusher, primary and secondary

LIST OF LABORATORY EQUIPMENTS
As of August, 1980

8 - inch Brass Sieve 3"	1	ea.
8 - -do- 2½	-do-	-do-
8 - -do- 2"	-do-	-do-
8 - -do- 3/4"	-do-	-do-
8 - -do- ½"	-do-	-do-
8 - -do- 1/8	-do-	-do-
8 - -do- #4	-do-	-do-
8 - -do- #8	-do-	-do-
8 - -do- #10	-do-	-do-
8 - -do- #16	-do-	-do-
8 - -do- #30	-do-	-do-
8 - -do- #40	-do-	-do-
8 - -do- #50	-do-	-do-
8 - Ddo- #100	-so-	-do-
8 - -do- #200	-do-	-do-
8 - inch Dia, Bras' Cover less ring	-do-	-do-
8 - inch Dia, Brass pan	-do-	-do-
8 - inch Wet washing sieve #200	-do-	-do-
Sample splitter 2½" chute width	-do-	-do-
Sample splitter 1½ chute width	-do-	-do-
Heavy duty solution balance, 1 gram se,	-do-	-do-
Triple Beam Balance, 0.1 gram sen.	-do-	-do-
Micrometer Poise Balance, 0.5 gram se.	-do-	-do-
Drying oven	-do-	-do-
2 - Burner LPG Stove w/ regulator and tank	-do-	-do-
Volumentric Flask, 50 ML	5	pos.
-do- 500 ML	3	pos.
Liquid limit Device w/ grooving tool	2	pos.
Plastic	2	pos.
Rectangular pan 4" x 2" x 10	8	pos.
Square pan 18" x 18"	14	pos.
Moisture Cans, 3 ounces	3 dos.	
Hand operated shaker	1 set	
Modified Compaction Mold, 1/13.33	2 sets	
Modified Compaction Mold 1/30	1 set	
Compaction hammer 5.5 lbs.	1 set	
Compaction hammer 10 lbs.	1 set	
Sand Cone Apparatus and Jug	2 sets	
Field density plate	2 pos.	
4" Steel grill	2 pos.	
Rubber Mallet	2 pos.	
Sand Scoop (small)	2 pos.	
Sand scoop (big)	2 pos.	

Yield Buckets, 1/10 cu.ft	2 pcs.
Yield Bucket , cu. ft.	1 ea.
Tampering rod	1 ea.
Slump cone w/ base and tampering pod	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	1cea.
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
Wooden office desks	3 pcs.
Counter with G.I. sink	1 set
Wooden filing cabinet	1 ea.

LIST OF OFFICE EQUIPMENTS

As of August, 1960

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 tool	1 ea.
Wooden Filing Cabinet	1 ea.

PAY ITEM	DESCRIPTION	ESTIMATE SCHEDULED	ESTIMATE ACC PROJ
1.60.2	Provide and Maintain Lab. and Office for Engineer	0 22509	0 3
1.60.3	Provide and Maintain one (1) four wheel drive vehicle for E[illegible]	0 38943	[illegible] 3
1.60.4	Provide and Maintain one (1) unit Utility vehicle for Engineer	0 16876	[illegible]
1.60.4-1	Maintain, Operate & Repair for one utility vehicle for Engineer	0 07269	0 0
1.60.5	Laboratory and Office Equipment for Engineer (As listed)	0 31154	0 3
100	Clearing and Grubbing	0 93173	0 9
105	Roadway and Drainage Excavation	2 79354	[illegible] 2
105-4	Excavation of unsuitable Materials	7 27008	[illegible] 0
106	Excavation for Structures	0 23852	0 2
107	Borrow	22 17153	2[illegible] 8
107-1	Borrow	[illegible]9 02124	[illegible] 3
108	Aggregate Sub-base	[illegible]7 30129	[illegible] 4
110	Foundation Fill	0 04283	0 0
111	Overhaul (300 M) Freehaul	0 00133	0 0
200	Aggregate Base Course	4 83288	2 7
302	Medium Curing Cutback Asphalt, Grade MC-1 for Bit. Pr. Coat	[illegible] 71741	
314-1	Aggregate Material for BST (Hot Asphalt Type)	0 90271	
314-3	85-100 Penetration Asphalt Cement for BST (Hot Asph't Type)	2 29918	
401	Timber (Detour) Trestle (Superstructure only) on conc. Pile Bent	2 29788	0 9
402.5	Precast Concrete Piles	5 71559	5 2
402.5-1	Concrete Test Piles (Furnish and Drive)	0 84378	0 8
403	Concrete Railing	0 01818	0 0
405	Concrete Class "A" (Miscellaneous)	2 63336	0
405-1	Concrete Class "A" (Bridge)	0 76914	0 7
406	Reinforcing Steel	[illegible] 47298	0 8
413	0.30 M.Ø Reinforced Concrete Pipes	0 17109	0 1
413-1	0.45 M.Ø Reinforced Concrete Pipes	0 40209	0 3
413-2	0.60 M.Ø Reinforced Concrete Pipes	0 29572	0 3
413-3	0.90 M.Ø Reinforced Concrete Pipes	[illegible] 27092	
413-4	1.20 M.Ø Reinforced Concrete Pipes	2 28894	2
500	Riprap and Grouted	0 [illegible] 54	0 0
510	Right of Way Marker	0 28725	0 0
		100 00	2 1

PLACE

AUG 1, 1978 ACTUAL STARTING DATE

SEP START T

AUG 31

ESTIMATED % WEIGHT ACCOMPLISHED			QUANTITY	UNIT COST	AMOUNT
ULED	PROJECT	ITEM			
2509	0 31777	141.18	17 Mos.	2,040.00	34,680.00
8943	0 38943	100.00	1	60,000.00	60,000.00
6876	0 .6876	100.00	1	26,000.00	26,000.00
7269	0 07269	100.00	4 Mos.	2,800.00	11,200.00
1154	0 31154	100.00	1	48,000.00	48,000.00
5173	0 93173	100.00	31.90 Mos.	4,500.00	143,550.00
9354	2 29602	82.19	21,520 Cu.M.	20.00	430,400.00
1008	9 04627	124.43	38,960 Cu.M.	28.75	1,120,100.00
3852	0 23186	97.21	1,750 Cu.M.	21.00	36,750.00
1153	23 85493	107.59	116,985 Cu.M.	29.20	3,415,962.00
1124	23 36387	122.83	85,690 Cu.M.	34.20	2,930,598.00
1129	14 48173	83.70	46,765 Cu.M.	57.00	2,665,605.00
283	0 04093	95.56	165 Cu.M.	40.00	6,600.00
1133	0 00131	98.24	680 Cu.M.	0.30	204.00
286	2 73675	56.63	12,410 Cu.M.	60.00	744,600.00
741			84 M.T.	3,150.00	264,600.00
271			1,159 M.T.	120.00	139,080.00
916			170 M.T.	2,990.00	508,300.00
766	0 91906	40.00	30 Span	11,800.00	354,000.00
559	5 29215	92.59	1,258 L.M.	700.00	880,600.00
378	0 84378	100.00	10 ea.	13,000.00	130,000.00
818	0 01818	100.00	20 L.M.	140.00	2,800.00
336	1 01116	38.40	588 Cu.M.	690.00	405,720.00
914	0 74636	97.04	150 Cu.M.	790.00	118,500.00
298	0 88960	60.39	32,890 Kgs.	6.90	226,941.00
109	0 14907	37.13	181.80 L.M.	145.00	26,361.00
209	0 32731	81.40	302.20 L.M.	205.00	61,951.00
572	0 32573	110.15	134.00 L.M.	340.00	45,560.00
092	9253	93.83	321.00 L.M.	610.00	195,810.00
894	2 7304	94.94	379.20 L.M.	930.00	352,656.00
154	0 04154	100.00	40 Cu.M.	160.00	6,400.00
725	0 01830	20.98	286 ea.	47.00	13,442.00

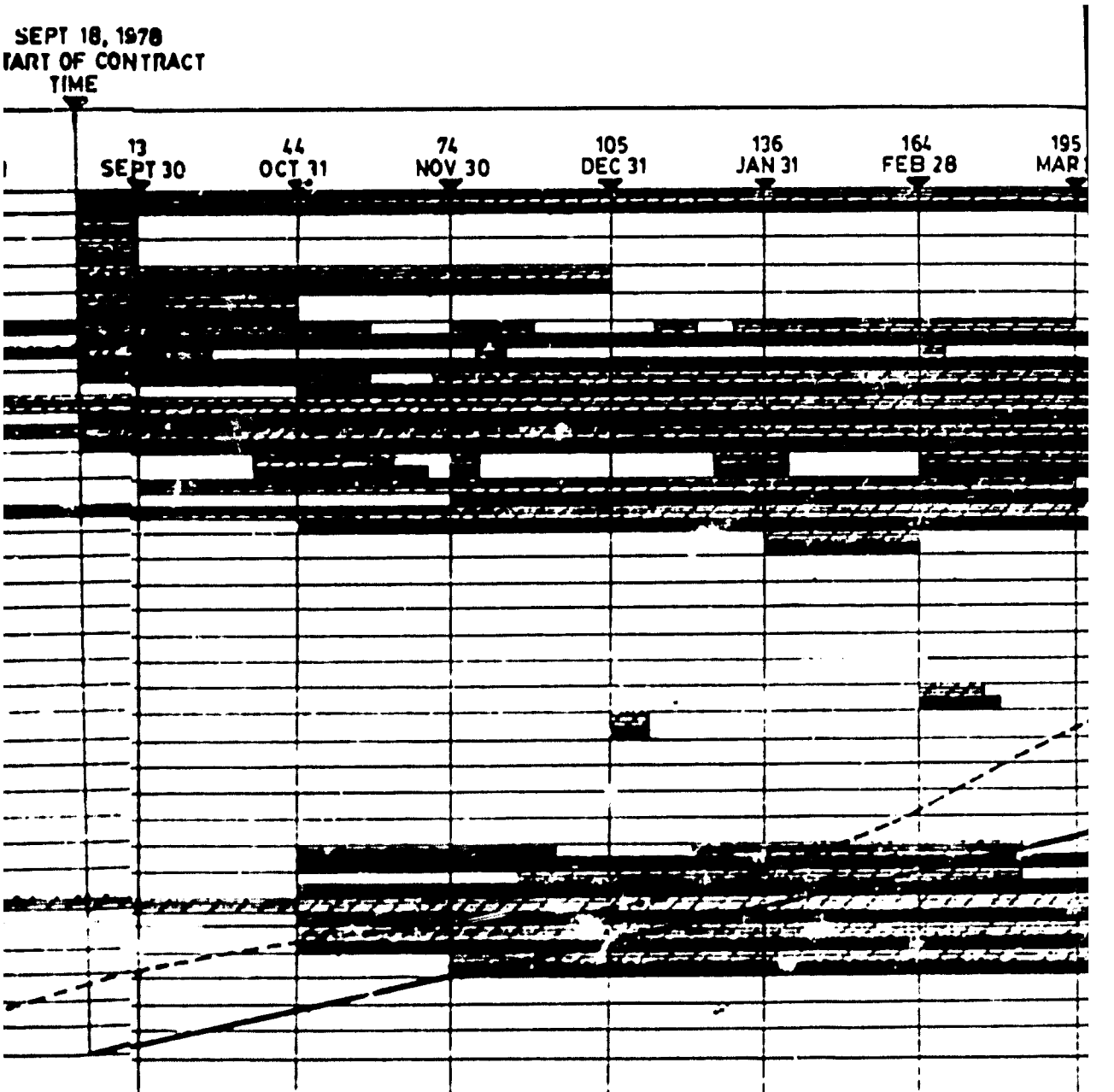
92.19340% AS OF AUGUST 25, 1980 15,406,970.00

PERCENTAGE TIME ELAPSED = 86.15984%

234.

234.

REVISED
PILI-M

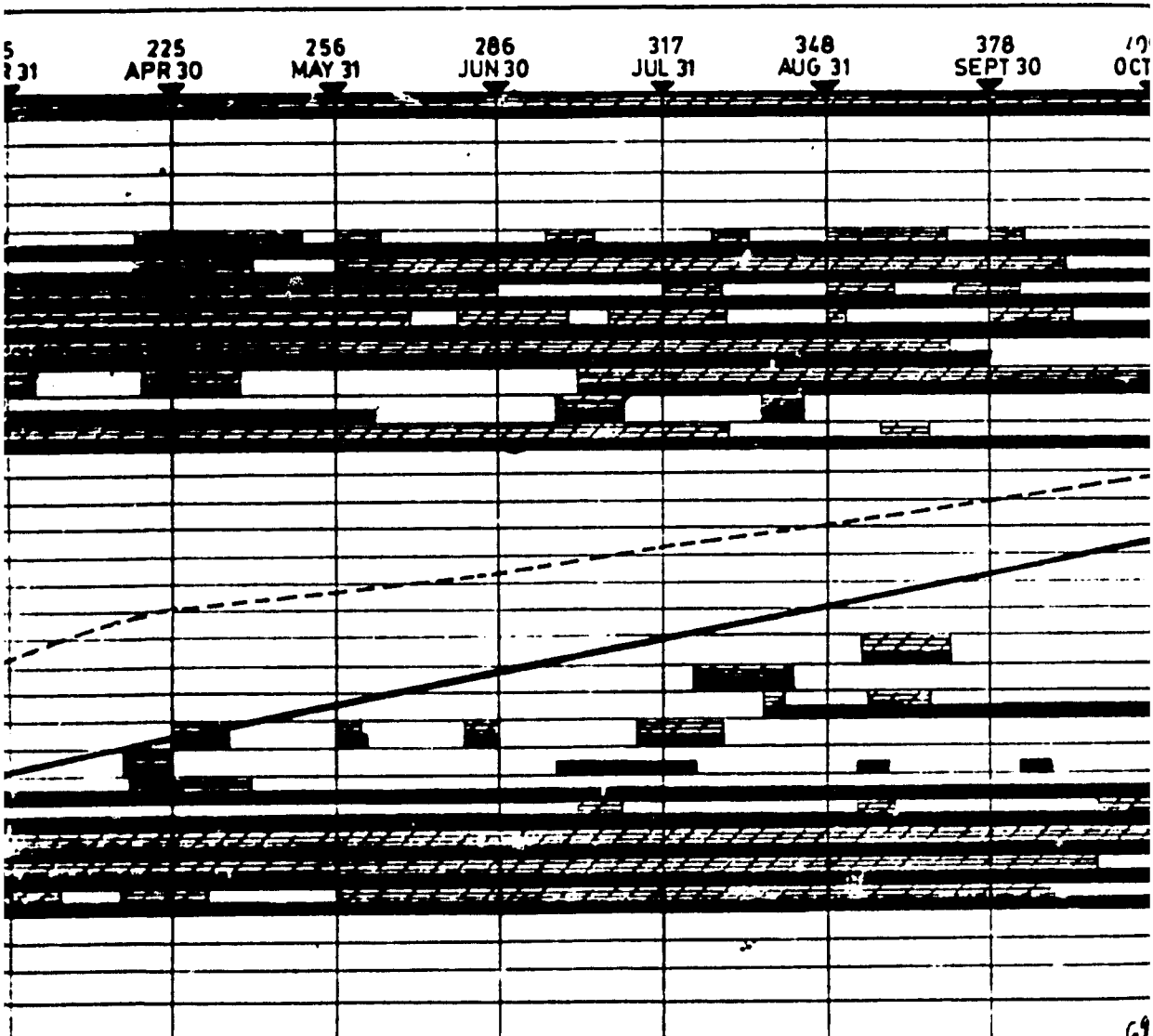


234,057.02	385,773.10	554,137.80	718,506.18	801,687.45	659,379.67	934,422.41
234,057.02	619,830.12	1,173,967.92	1,892,474.10	2,694,161.55	3,353,541.17	4,287,963.58

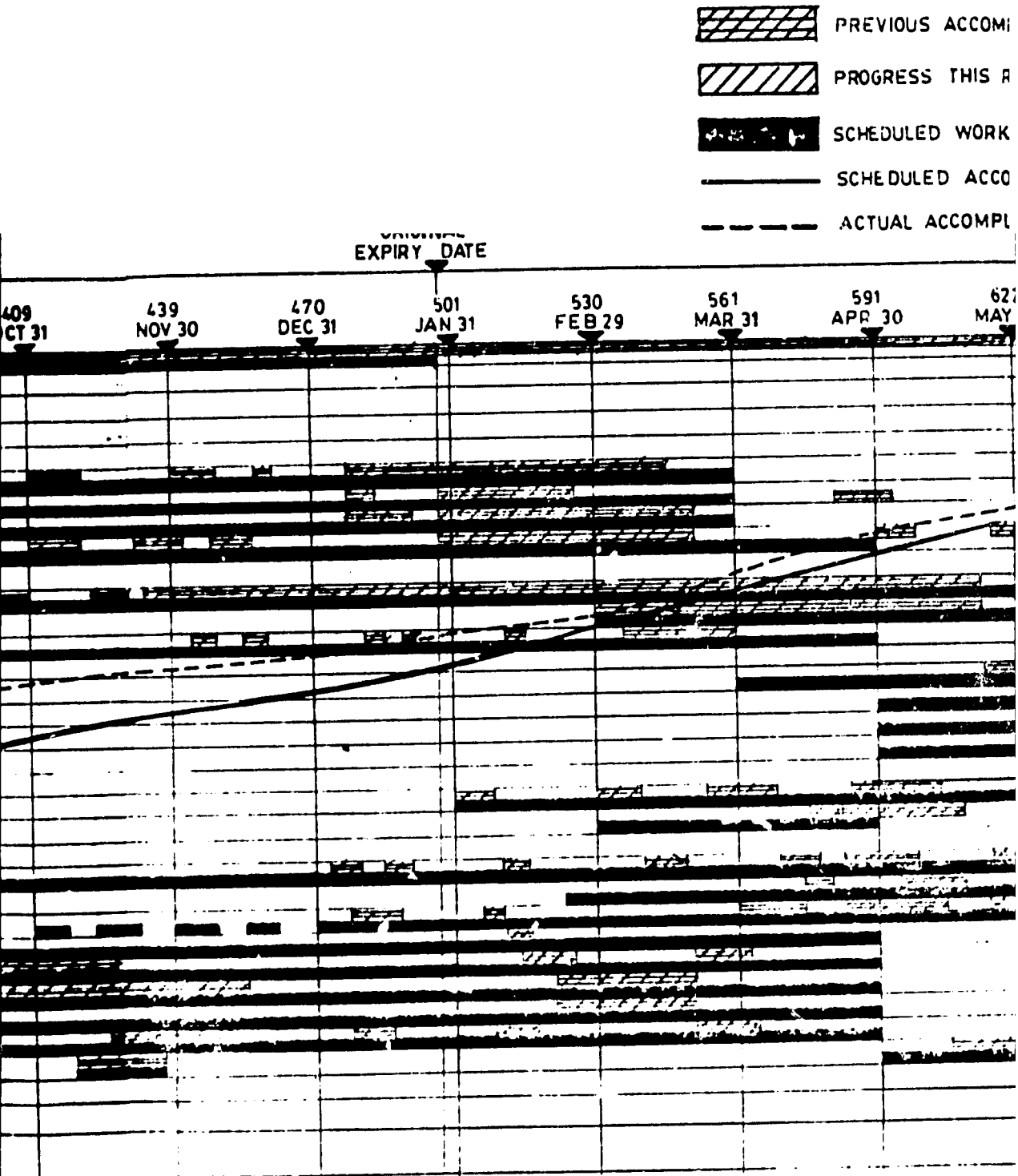
BAR SCHEDULE OF WORK
ATAORÓC ROAD SECTION

(REVISED, AUGUST 25,1980)

7th Revision



800,061.12	711,454.74	422,793.19	621,091.84	686,754.95	682,743.84	369,263.29
[illegible]	[illegible]	[illegible]	[illegible]	7,550,118.42	8,232,863.26	8,602,126.55



26	365,35169	377,8[illegible]1.37	393,944.01	516,632.32	807,072.23	913,833.63	1,044,562.9[illegible]
55	8,967,479.24	9,345,[illegible]19.61	9,739,263.62	10,255,895.94	11,062,968.17	11,976,801.80	12,955,376.7[illegible]

HMENT

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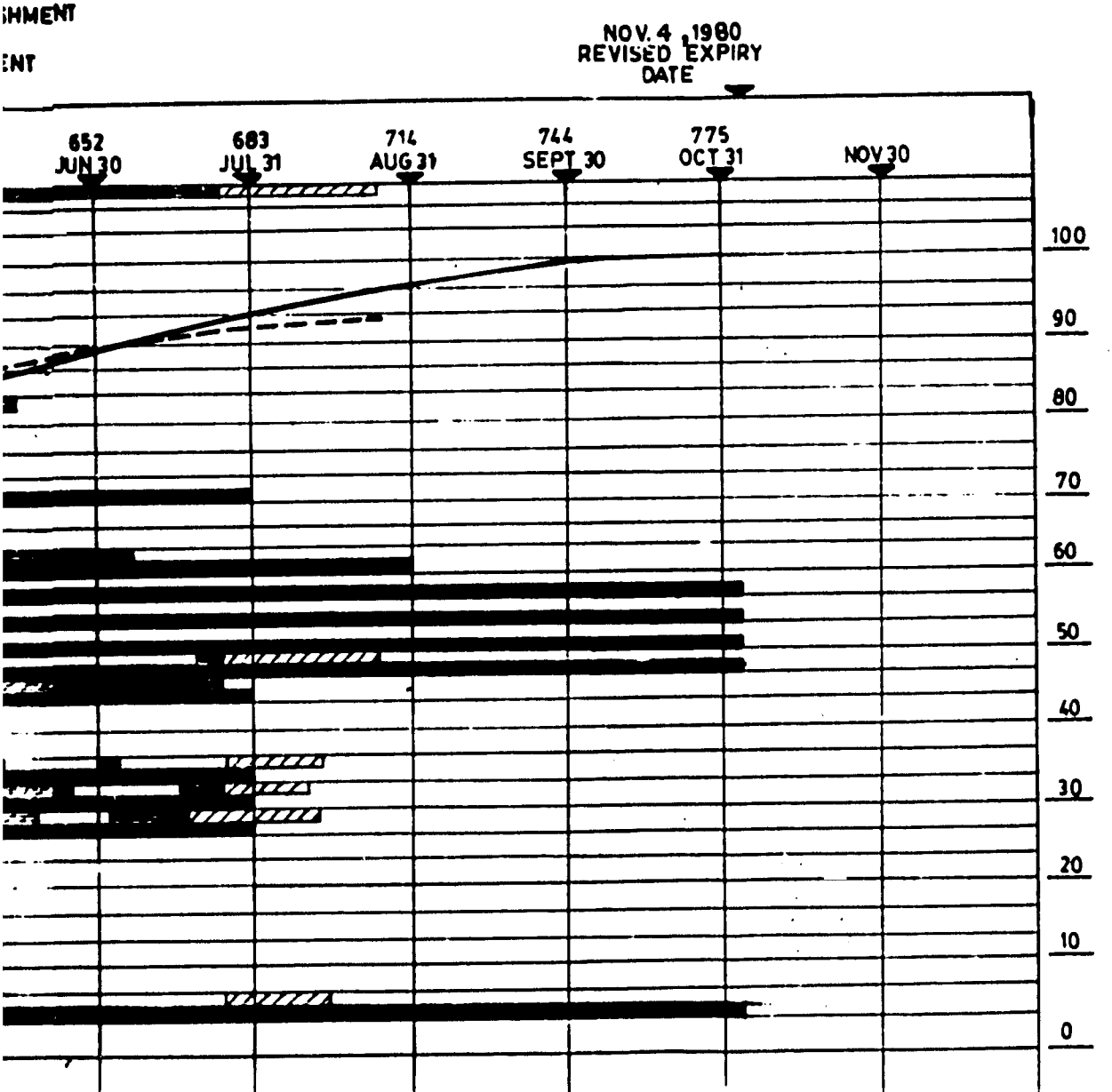

,097.67	924,721.39	475,739.27	318,199.68	64 050.27	19,738.00
2,486,638	14,861,218.68	15,070,969.65	15,323,181.63	15,387,232.00	15,406,970.00

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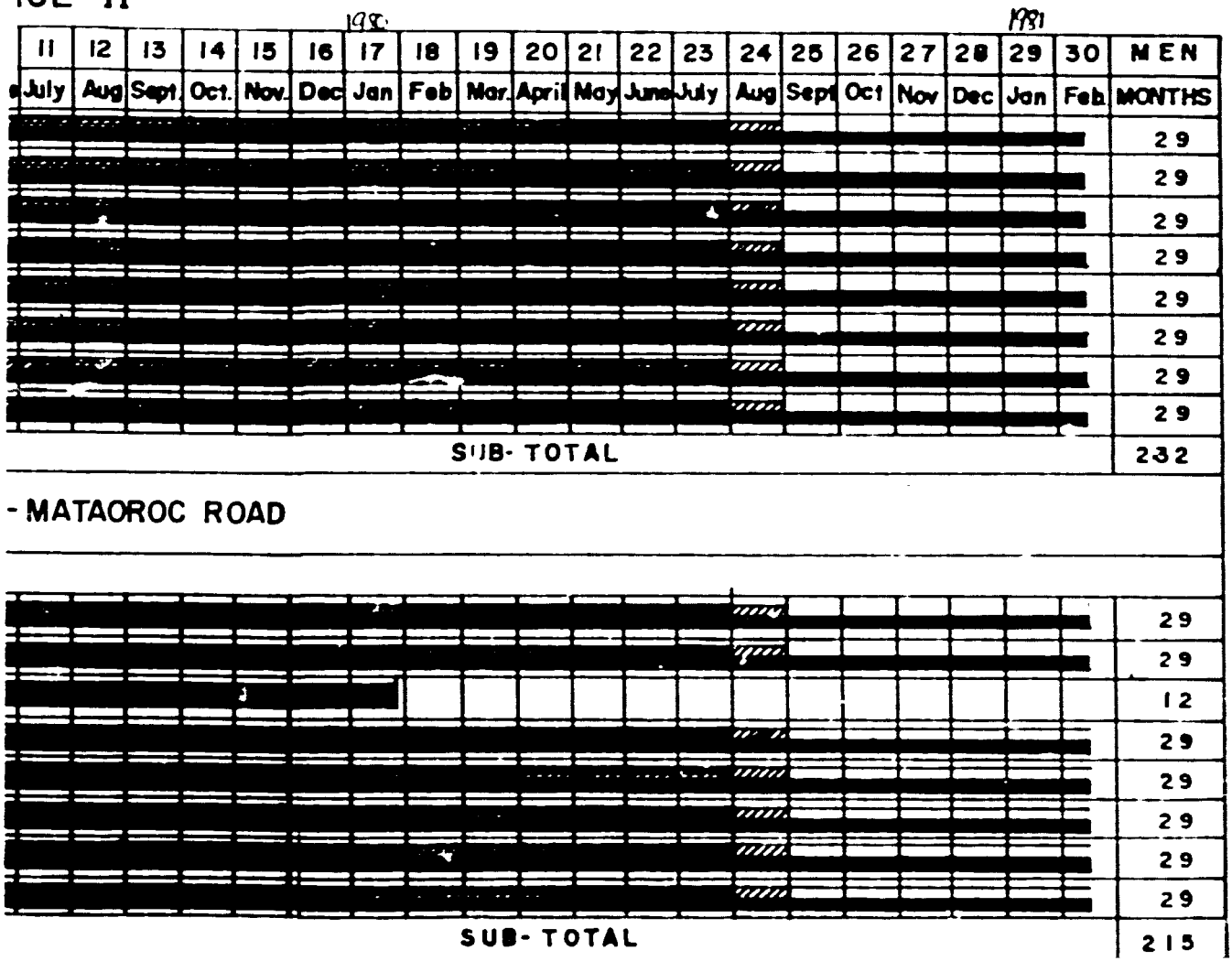
BICOL RIVER BASIN DEVI
(ROAD COMPONE

MANPOWER SCHEDULE OF CONSULTANT'S STAFF
PACKAGE

		1978					1979							
			1	2	3	4	5	6	7	8	9	10	11	1
		Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June	July	A
A.E.BANDELARIA	DEPUTY PROJ.MANAGER													
L.D.MAYOR	SR.HIGHWAY ENG'R / R.E.													
F.G.OBUSAN	SR.BRIDGE ENG'R./R.E.													
M.D.LACSAMANA	SR.LOC.ENGINEER													
J.A.TORRALBA	SR.MATLS. ENG'R./R.E.													
F.C.ROSALES	ADMINISTRATIVE OFFICER													
LYDIA P. JOSE	CLERK / TYPIST													
T.S. SABABAN	JANITOR/MESSENGER													
SUB-PROJECT No.5, PILI-MAT														
F.G. OBUSAN	SR.BRIDGE ENG'R./R.E.													
M.B.DELFIN	MATERIALS ENGINEER													
DANILO V. FILIO	ENGINEER INSP. (HWY.)													
E.L.REYES	ENGINEER INSP. (BR.)													
A.P.ESPAÑO	SURVEYOR-DRAFTSMAN													
F.V. YBAROLA	LAB.TECHNICIAN													
P.B. ALVAREZ	CLERK-TYPIST													
R. CABALLERO	JANITOR/MESSENGER													
S.B. JEREMAS	LABORER													

DEVELOPMENT PROJECT
ONENTS)
STAFF FOR CONSTRUCTION SUPERVISION
GE II



Bicol River Basin Development Project
Secondary and Feeder Roads

PACKAGE II

Palistina-San Antonio-Minalabac Rd. Project
Sub - Project No. 6

MONTHLY PROGRESS REPORT
No. 10

Prepared By:

VICENTE B. AANO
Resident Engineer

Submitted By:

ADARO B. BANDELARIA
Deputy Project Manager

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PROGRESS REPORT
NO. 10

PROJECT: PALISTINA-SAN ANTONIO-MINALABAC ROAD
SUB - PROJECT NO. 6

1. GENERAL

Palistina-San Antonio-Minalabac (Secondary Road) Sta. 0 + 00 to Sta. 8 + 216.81.

Maydaso-Taririk-Baras-Malitbog (Feeder Road) Sta. 0 + 00 to Sta. 5 + 147.54.

The project started on November 12, 1979 with a contract time of 548 calendar days thus we are expecting to finish the project by May 13, 1981. Among the four projects of Package II, under the Integrated Philconsult, Inc., Engineering consultants, this project was the last to commence.

This project under construction, consist of national Secondary road and one Feeder road. The length of the national Secondary road is 8.21681 kilometers and the first 4.25 kilometers of which will be paved with Double Bituminous Surface Treatment (DBST), Item 314, the rest being gravel base surface, Item 108, together with the Feeder road which has a length of 5.14754 kilometers.

As to its location the Secondary road lies in between Naga City and Pili extending from Palistina passing through San Antonio, Maydaso and ending at Bicol River.

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A bridge spanning the Bicol River will enable an easy access to Minalabac town proper. The feeder road, will serve the barangays of Maydaso, Taririk, Malitbog and Baras, thus forming a loop from Maydaso to the end of Secondary road.

The Secondary and Feeder roads has a 6.00 meters and 4.00 meters roadway respectively with shoulders at 1.00 meter on both sides.

Drainage structures on the Secondary road consist of RCP's different stations and one three span RCDG bridge (Sta. 5 +201.7 - Sta. 5 + 232.3) over Malitbog creek. On the Feeder road drainage structures consist of RCP's, on different stations, one timber trestle of seven (7) spans over Taririk creek and another timber trestle of three (3) spans over Baras creek.

The topography of the vicinity is generally plain and the road project is traversing a large truck of cultivated riceland. The existing road within the locality just spans from Malistian up to Maydaso and were made of poor surfacing thus rendering non-passable to vehicles during rainy days.

Farm produce beyond Maydaso were transported manually and the farmers were obliged to pay a large amount just for transporting of their products.

Accomplishment during the first quarter of the year, which coincides with the first harvest season proves to be of great help to both farmers and dwellers of the place.

Best Available Document

Transportation cost of farm products were greatly minimised.

It has been assured that the completion of the Palistina - San Antonio - Minalabac road project, subproject No. 6, will make a dream become reality.

2. PROGRESS

Due to inclement weather, operations by the contractor was brought down to a minimum. Their frequent equipment breakdown contributed most to their slow progress.

	% Accomplished to Date
Palistina-Minalabac (Secondary)	25.72
Maydaso-Taririk-Baras (Feeder)	1.69
Total	27.41 %

Time Elapsed - 52.55

A. Secondary Road

1. Earthwork - hauling of item 107
   a) Sta. 3 + 275 to Sta. 3 + 850
   b) Sta. 4 + 000 to Sta. 4 + 500
2. Aggregate Sub-Base (Item 108)
   a) Sta. 0 + 300 to Sta. 0 + 425
   b) Sta. 0 + 575 to Sta. 0 + 875
   c) Sta. 1 + 825 to Sta. 2 + 025
   d) Sta. 2 + 100 to Sta. 2 + 450
   e) Sta. 3 + 925 to Sta. 4 + 375
3. Structures
   No activity during the month.
4. Survey
   Establishing elevation control.

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B. Feeder Road No. 601

1. Earthwork

No activity

2. Structures

No activity

3. Survey

No activity.

SUMMARY OF PHYSICAL ACCOMPLISHMENT TO DATE

	Secondary Road	Feeder Road
a. Roads		
Sub - Grade	4.20 km.	None
Sub - Base	0.20 km.	None
Base	None	None
Asphalt Surfacing	None	None
b. Bridges		
Sub - Structure	None	None
Super - Structure (conc.)	None	None
c. Drainage		
Reinforce Concrete Pipe	None	None
Reinforce Concrete Box Culvert	None	None

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Materials Testing and Control

Tabulated herebelow are the various tests performed for the project.

PALIBTINA-SAN ANTONIO-MINALABAC ROAD
Secondary Road

ITEM	KIND OF TEST	STATUS OF TEST Prev.Mo.	This Mo	Total	Remarks
105	Grading	8	0	8	Along right of way
	PL & LL	8	0	8	"
	Compaction	8	0	8	"
	Field Density Test	18	0	18	"
105-4	Grading	14	0	14	Along right way
	PL & LL	14	0	14	"
	Compaction	14	0	14	"
	Field Density Test	18	0	18	"
107	Grading	43	2	45	Maydaso Quarry
	PL & LL	43	2	45	"
	Field Density Test	58	5	63	"
	Soil Classification	43	2	45	"
	Compaction	15	1	16	"
108	Grading	39	5	44	San Juan Quarry
	PL & LL	39	5	44	"
	Compaction	10	2	12	"
	Field Density Test	19	8	27	"

Maydaso - Taririk - Malitbog - Barns Rd.
Feeder Road

ITEM	KIND OF TEST	STATUS OF TEST Prev. No.	This No.	Total	Remarks
105	Grading	2	0	2	Along right of way
	PL & LL	2	0	2	"
	Soil Classification	2	0	2	"
	Field Density Test	2	0	2	"
	Compaction	2	0	2	"
105-4	Grading	2	0	2	Along right of way
	PL & LL	2	0	2	"
	Soil Classification	2	0	2	"
	Field Density Test	2	0	2	"
107	Grading	17	0	17	Along right of way
	PL & LL	17	0	17	"
	Compaction	5	0	5	"
	Soil Classification	12	0	12	"
	Field Density Test	17	0	17	"

COMMENTS AND RECOMMENDATIONS

Inclement weather prevails during the month and it renders ground unworkable. Frequent equipment breakdown contributed most in slow operations of the contractor.

The contractor has been advised to activate their operations in structures, especially their RCP and Test Pile for bridges.

With this kind of weather the Consultants feel that activating the structures will help the contractor accelerates their accomplishment.

Right of way is still the major problem of the project and early acquisition of which is highly solicited from those concerned.

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WEATHER REPORT
As of August 25, 1980

PROJECT: PALESTINA-SAN ANTONIO-MINALABAC ROAD
SUB-PROJECT NO. 6

Date 1980	Weather	Remarks	Time Extension Recommended
July 26	Cloudy	Workable	None
27	Fair	Workable	None
28	Fair	Workable	None
29	Fair	Workable	None
30	Fair	Workable	None
31	Fair	Workable	None
Aug. 1	Fair	Workable	None
2	Fair	Workable	None
3	Fair	Workable	None
4	Fair	Workable	None
5	Fair	Workable	None
6	Fair	Workable	None
7	Fair	Workable	None
8	Fair	Workable	None
9	Fair	Workable	None
10	Fair	Workable	None
11	Rainy	Unworkable	One (1) day
12	Rainy	Unworkable	One (1) day
13	Rainy	Unworkable	One (1) day
14	Fair	Workable	None
15	Fair	Workable	None
16	Rainy	Unworkable	One (1) day
17	Fair	Workable	None
18	Cloudy	Workable	None
19	Rainy	Unworkable	One (1) day
20	Rainy	Unworkable	One (1) day
21	Rainy	Unworkable	One (1) day
22	Rainy	Unworkable	One (1) day
23	Rainy	Unworkable	One (1) day
24	Rainy	Unworkable	One (1) day
25	Rainy	Unworkable	One (1) day

TOTAL EXTENSION [illegible] THIS MONTH . . . . 11 days
TOTAL EXTENSION [illegible] PREVIOUSLY . . . . 64 days
GRAND TOTAL TO DATE . . . . . 75 days
DATE OF EFFECTIVITY OF CONTRACT . . . November 12, 1979
TIME ELAPSED 52.55%

Best Available Document

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BICOL RIVER BASIN DEVELOPMENT PROGRAM OFFICE
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SES)

NAME OF [redacted] CONTRACTOR, INC.

FOR THE MONTH OF ____ AUGUST 25 ____ 19 80 ____

	ADMINISTRATIVE PERSONNEL	ENGINEERING TECHNICAL	SKILLED	UNSKILLED
MANILA BASED 1/	2	1	16	
LOCAL - HIRED 2/	1	3	2	10
SUB-CONTRACTORS 3/				
TOTAL	3	4	18	10

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

pure*

Submitted by:

[redacted]
Project Engineer

Annex "A"

PROJECT ORES CONTRACTOR, INC.
Palistina - San Antonio - Minalabac Road
Camarines Sur

LIST OF PERSONNEL

NAME	POSITION	QUALIFICATION
I. TECHNICAL STAFF		
1. Criseneio H. Calalang	Project Engineer	Civil Engineer
2. Julio E. Acabado	Office Engineer	CE Graduate
II. ADMINISTRATIVE STAFF		
1. Sergia M. Mallari	Administrative Officer	B. S. C.
2. Leonardo L. Bernardino	Project Accountant	B. S. C.
3. Cyrel G. Cea	Clerk/Typist	Experienced
III. MECHANICAL		
1. Ernesto Portes	Chief Mechanic	Experienced
2. Frank dela Cruz	Mechanic	- do -
3. Alberto dela Cruz	Helper Mechanic	- do -
4. Nestor Santos	Fuel Tender	- do -
IV. SURVEY TEAM		
1. Pastor Aguila	Instrumentman	Experienced
2. Franklin Elgar	Chainman	- do -
3. Winefredo Gamban	Rodman	- do -
4. Lorenzo Bañaga	Survey Aide	- do -
V. LABORATORY		
1. Odelon Alvina	Laboratory Technician	Experienced
2. Isagani Alvina	Laboratory Aide	- do -
VI. DRIVER AND OPERATOR		
1. Virgilio Pacual	H.E. Operator	Experienced
2. Cerilo Gonzales	- do -	- do -
3. Leandro de Guzman	- do -	- do -
4. Rodolfo de Guzman	- do -	- do -
5. Jun Bartolome	- do -	- do -
6. Larry Bartolome	- do -	- do -
7. Antonio Cavine	H.E. Driver	- do -
8. David Sola	- do -	- do -
9. Dario Cabante	- do -	- do -
10. Efren Pontillas	- do -	- do -
11. Bayani Bernabe	- do -	- do -

12. Henry de Lara	H.E. Driver	Experienced
13. Elmer de Guzman	- do -	- do -

VII. HIGHWAY AND STRUCTURE

1. Pablito Baluyot	Foreman (Highway)	Experienced
2. Greg Rosanes	Checker (Materials)	- do -
3. Sonny Hernandes	- do -	- do -
4. Edgardo Tosoo	Timekeepor	- do -

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Annex "B"

PROJECT WORKS CONTRACTOR, INC.
Palistina - San Antonio - Minalabac Road
Camarines Sur

LIST OF EQUIPMENT

2 units - Bulldozer D - 7 Caterpillar

2 units - Payloader JH - 65, Michigan

2 units - Road Grader - Caterpillar (Mechanical)
Huber Warco

2 units - Road Roller - Sakai, Watanabe

1 unit - One bagger mixer

1 unit - Two bagger mixer

1 unit - L 22 Pile Hammer

1 unit - Crane (25 tons) Truck Mounted

1 unit - Bar Cutter

1 unit - Water Truck

1 unit - 10 Wheeler (FUSO)

6 units - 6 Wheelers (Dump Truck)

1 unit - Toyota Tamaraw (Service)

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LI OF LABORATORY EQUIPMENTS
As of 1980

DESCRIPTION	QUANTITY	UNIT
8 - inch Brass Sieve Size 3"	1	each
8 - inch Brass Sieve Size 2"	1	ea.
*8 - inch Brass Sieve Size 1.5"	1	ea.
8 - inch Brass Sieve Size 1.5	1	ea.
8 - inch Brass Sieve Size 1"	1	ea.
8 - inch Brass Sieve Size ¾"	1	ea.
8 - inch Brass Sieve Size ½"	1	ea.
8 - inch Brass Sieve Size 3/8"	1	ea.
8 - inch Brass Sieve # 4	1	ea.
*8 - inch Brass Sieve # 10	1	ea.
*8 - inch Brass Sieve # 20	1	ea.
*8 - inch Brass Sieve # 30	1	ea.
8 - inch Brass Sieve # 40	1	ea.
8 - inch Brass Sieve # 50	1	ea.
8 - inch Brass Sieve # 100	1	ea.
8 - inch Brass Sieve # 200	1	ea.
Sample Splitters, 2.5 chute width	1	ea.
Heavy Duty Solution Balance, 1 gm. Sensitivity	1	set
Triple Beam Scale 0.1 gm. Sensitivity	1	set
Micrometer Phiso Balance 0.5 gm.	1	set
Oven Circulated Fan	1	ea.
Sand Absorption Cone and Tamper	1	ea.
Pycnometer Top and Jar	1	set
Volumetric Flask, 500 ml.	5	ea.
Liquid Limit Device with Grooving Tool	2	set
Plastic Limit Set	2	set
Moisture Cans, 3 Ounces	5	dem.
Modified Compaction Mold, 1/12.33	1	set
Proctor Compaction Mold, 1/30	1	set
Compaction Hammer, 10 lbs.	1	set
Compaction Hammer, 5.5 lbs.	1	set
Sand Density Cone w/o jar	2	ea.
Concrete Cylinder Mold	3	ea.
Slump Cone with Base and Tamping Rod	1	ea.
Yield Bucket, 1/10 cu. ft.	1	ea.
Yield Bucket, 1 cu. ft.	1	ea.
Tamping Rod	3	ea.
Thermometer, 360°C	1	ea.
Gas Stove with Oven	1	ea.
Field Density Plate	2	ea.
Pan Sieve	1	ea.

NOTE:

* - Out of schedule laboratory equipments delivered.
Present laboratory equipments percentage is 90%.

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PAY ITEM	DESCRIPTION	EST SCHE
1.60.1	Provide and Maintain Office and Lab. for Engineer	1.0
1.60.2	Provide one (1) Unit Utility Vehicle for Engineer	0.6
1.60.4	Lab and Office Equipment for Engineer	1.8
100	Clearing and Grubbing	1.2
103-1	Removal of Bridge	0.0
103-2	Removal of Culvert	0.0
105-SR	Roadway and Drainage Excavation	2.8
105-FR	Roadway and Drainage Excavation	0.6
105-4	Excavation of Unsuitable Materials	2.7
106	Excavation for Structure	0.6
107	Borrow	3317
108	Aggregate Sub-base	206
110	Foundation Fill	0.0
200	Aggregate Base Course	8.4
302	Bit. Prime Coat Grade - MC-1	2.2
314-1	Aggregate Materials for BST	1.2
314-3	Asphalt Cement 85-100 Penetration	4.3
401	Timber Trestle on Concrete Pile Bents	1.7
402-2.5	Precast Concrete Piles	8.3
402-2.5a	Concrete Test Piles	1.9
403	Concrete Railings	0.1
404	Concrete Class "A" (Miscellaneous)	1.2
405-1	Concrete Class "A" Bridge	3.8
406	Reinforcing Steel	2.1
413	0.30M. Ø Reinforced Concrete Pipes	0.0
413-1	0.46 M. Ø Reinforced Concrete Pipes	0.1
413-2	0.60M. Ø Reinforced Concrete Pipes	2.4
413-3	0.90M. Ø Reinforced Concrete Pipes	0.3
413-4	1.20M. Ø Reinforced Concrete Pipes	0.3
500	Rip-rap and Grouted	0.0
801	Hand Laid Rock Emb.	0.1
810	Right of way Markers	0.2
	TOTAL	

CA

C

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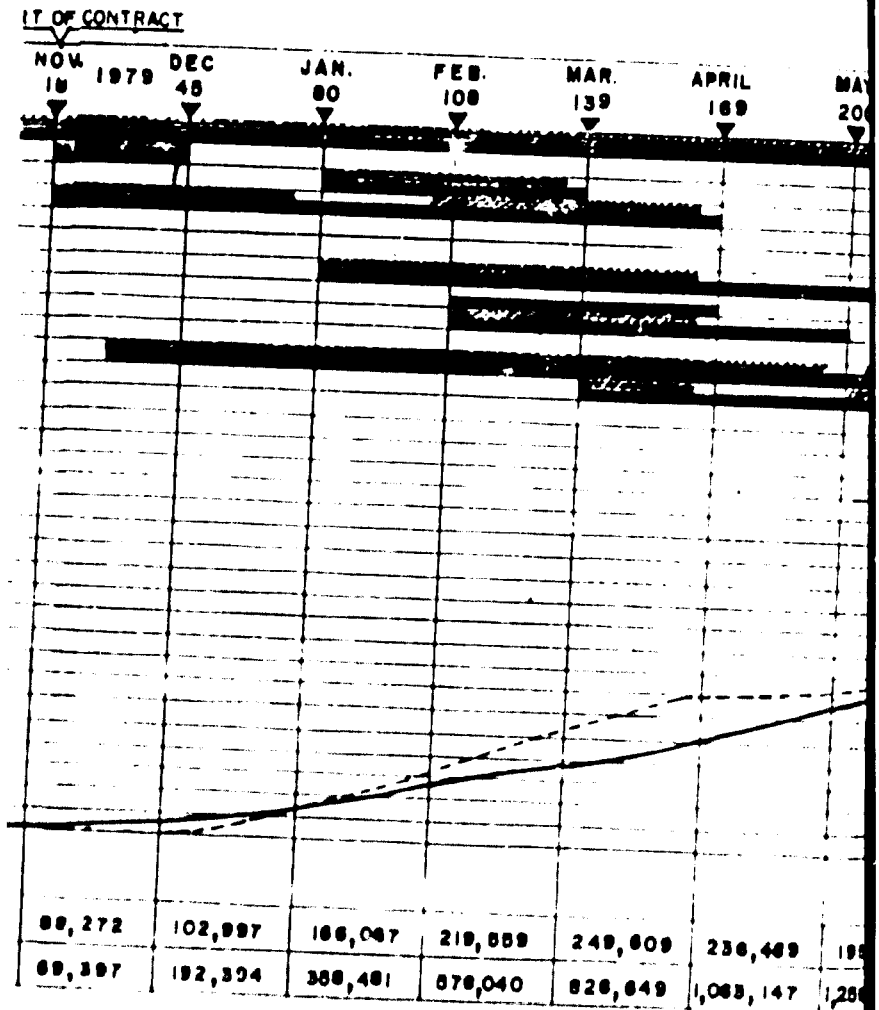
PALISTINA

START OF CONTR

ST	ATED % WEIGHT			QUANTITY	UNIT COST	AMOUNT	NOV. 18 197
HEDULED	ACCOMPLISHED						
	PROJECT	ITEM					
1.03	[illegible]	[illegible]		18 mos	2,500	45,000.0	
0.68	[illegible]	[illegible]		L.S	L.S.	30,000.0	
1.96	[illegible]	[illegible]		L.S.	L.S	84,000.0	
1.22	[illegible]	[illegible]		17.13 Mos.	3,225.0	55,244.25	
0.03				1 each	4,125.0	4,125.0	
0.02				3 each	367	1,101.0	
2.61	[illegible]	99.176		11,100M³	11.40	126,540.0	
0.61				1,900M³	12.75	24,225.0	
2.73	[illegible]	69.171		13,200M³	9.40	124,080.0	
0.60				2,400M³	15	36,000.0	
31.77	[illegible]	44.44		86,400M³	17.60	1,520,640	
0.5	[illegible]	[illegible]		31,850M³	29.0	923,650	
0.01				50M³	45.0	2,250.0	
6.46				6,900M³	42.0	289,800	
2.3				42 M.T	2,360	99,120	
[illegible]				575M³	97.60	56,120	
4.8				83 M.T	2,360	195,880	
1.2				10 Span	7,697	76,970	
6.19				590 L.M	488	287,920	
1.08				5 each	9,600	48,000	
0.16				60 L.M.	120	7,200.0	
1.28				100 M3	570	57,000	
2.86				174.6 M³	735	128,331	
2.13				17,371 Kg	5.50	95,540.50	
0.03				[illegible]	142	1,562.0	
0.12				26 L.M	218	5,668	
2.5				386 L.M.	285	110,010	
0.8				32 L.M.	502	16,064	
0.7				22 L.M	772	16,984	
0.1				30 M³	120	3,600	
0.173				150 M³	112	16,800	
0.18				234 ea	30	10,284	
	[illegible] 1980						
ASH FLOW						1125	89,27
UMULATIVE TOTAL AMOUNT							89,3

BAR SCHEDULE OF WOR
OF
STINA-SAN ANTONIO-MINALABAC RO



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LEGEND:

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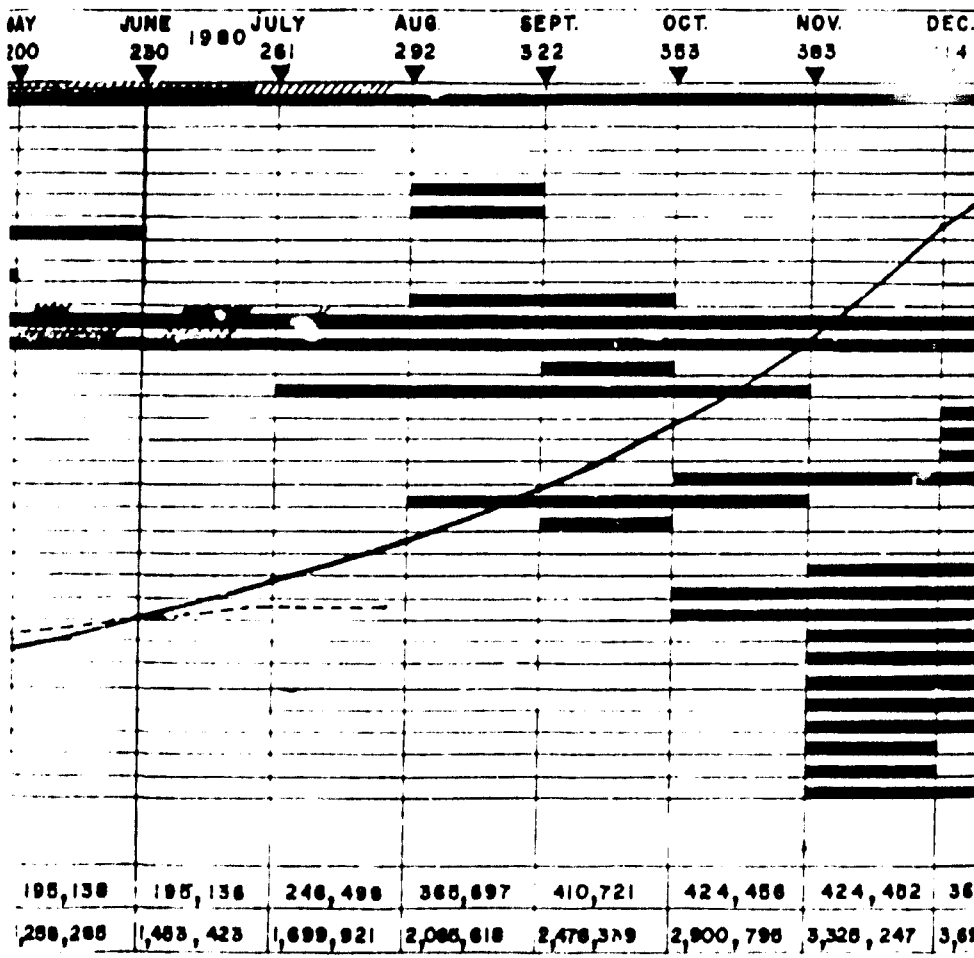

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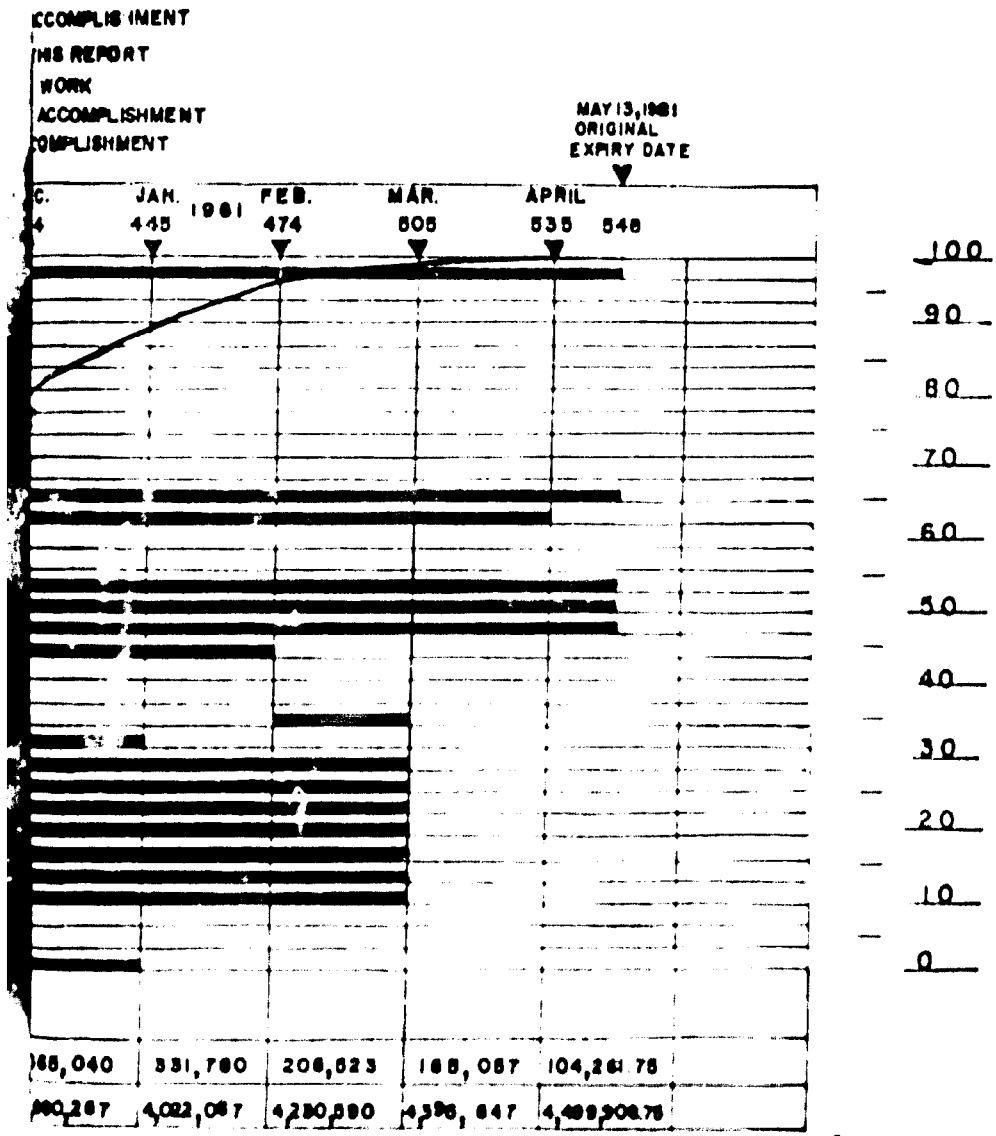
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MAY 13, 1981
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65,040
331,780
206,623
165,057
104,261.75
4,022,067
4,230,690
4,396,647
4,499,909.75

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BICOL RIVER BASIN DEVELOPMENT PROJECT
ROAD COMPONENTS

MANPOWER SCHEDULE OF CONSULTANTS STAFF FOR CONSTRUCTION SU .VISION

PACKAGE II

NAMES	POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	MEN MONTHS
		N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	
A. E. BANDELARIA	DEPUTY PROJ. MGR.																				18
L. D. MAYOR	SR. HWY. ENGR. / R E																				18
F. G. OBUSAN	SR. BR. ENGR. / R E																				18
M. D. LACSAMANA	SR. LOC. ENGR.																				18
J. A. TORRALBA	SR. MAT. ENGR./R E																				18
F. C. ROSALES	ADM OFFICER																				18
L. P. JOSE	CLERK / TYPIST																				18
T. S. SABABAN	MESSR / JANITOR																				18
																					18
																				SUB - TOTAL	144

SUB - PROJ. NO 6 PALISTINA - SN ANTONIO - MINALABAC ROAD

V. B. ZANO	RESIDENT ENGINEER																				18
R. R. RAFER	ENGR INSP (HWY.)																				18
R. NUNEZ	ENGR. INSP. (BRIDGE)																				10
W. B. CONCEPCION	MATL'S. ENGR.																				18
B. V. ACORDA	SURVEYOR / DRFTMN																				18
C. D. DELFIN	LAB TECHNICIAN																				18
Y. L. DELA CRUZ	CLERK/ TYPIST																				18
																					18
A. B. LAUDIT	JANITOR / MESGR																				18
A. P. CONDAT	LABORER																				18
																				SUB - TOTAL	18

Bicol River Basin Development Project
Secondary and Feeder Roads

PACKAGE II

Naga-Carolina Road Project
Sub-Project No. 10

MONTHLY CONSTRUCTION REPORT
No. 26

Prepared By:

LUCIO D. MAYOR
Sr. Hwy. Engr./R. E.

Submitted By:

AMANO Y. BANDELARIA
Deputy Project Manager

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PROGRESS REPORT NO. 26

August, 1980

PROJECT: NAGA-CAROLINA SECONDARY AND FEEDER ROADS
SUB - PROJECT NO. 10

1. GENERAL

This report summarizes the activities of BALM Construction Co., Inc., contractor of the project, on the two (2) remaining Feeder Roads, after having completed the main part of the works, the Naga-Carolina Secondary Road.

The remaining works that are getting the final finishing touches are:

Feeder Road No. 1001 (Sn. Isidro-Pacul Nursery - 2.106 Km.

Feeder Road No. 1002 (Sn. Isidro-Panicuason) - 4.036 Km.

The weather during the period hampered the work but did not cause damages to the various items already accomplished.

2. PROGRESS

The overall progress at the cut-off date of the period is 99.26% per adjusted quantities broken down as follows:

Naga-Carolina Road (Sr-10)	76.44% Completed
Sn. Isidro-Pacul Nursery (FR-1001)	12.12%
Sn. Isidro-Panicuason (FR-1002)	10.70%
T o t a l	99.26%

Time elapsed from the work period, including time extensions is 9[illegible].59% per latest schedule revision.

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a) Secondary Road (Km. 0 + 000 to Km. 13 + 470)
Completed

b) Feeder Road No. 1001 (Km. 0 + 079 to Km. 2 + 185)

1) Earthworks
Trimming of side slopes and ditches.

2) Subbase
Trimming up to finished grade.

3) Structures
Completed

4) Drainage
Completed.

c) Feeder Road No. 1002 (km. 0 + 027 to Km. 4 + 063)

1) Earthworks
Filling of embankment at approaches to the Timber Trestle Bridge.
Trimming of side slopes and ditches.

2) Subbase
Trimming up to finished grade.

3) Structures
Excavation for foundation of retaining wall to bridge approaches.

4) Drainage
Completed.

3. SUMMARY OF PHYSICAL ACCOMPLISHMENT TO DATE

a) Roads

	Secondary Rds.	Feeder Rds.
Sub-grade	13.32 Km.	6.13 Km.
Sub-base	13.32 Km.	6.13 Km.
Base	13.33 Km.	None
Surfacing	80,371 Sq.M.	None

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b) Bridges

	Secondary Rds.	Feeder Rds.
Sub-structure	50.2 L.M.	12.00 L.M.
Super-structure	50.2 L.M.	12.00 L.M.

4. COMMENTS AND RECOMMENDATIONS

The contractor has excavated the ground for the foundation of a wall to contain and protect the high embankment approaches to the Panicuason Timber Trestle Bridge at FR 1002. He should exert more effort in this last endeavor by coordinating well his men, equipment and the necessary materials for the proper and speedy completion of this portion of the work that would lead to the final turn over of the whole project.

Because of the time suspensions due to unworkable conditions during these months of the rainy season, it is necessary that the work schedule be revised and updated, otherwise the progress report shall not be realistic.

The new tentative completion date is September 15, 1980.

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WEATHER REPORT
As of August 25, 1980

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

Date	Weather	Remarks	Time Extension Recommended
July 26	Rainy	Unworkable	One (1) day
27	Cloudy	Workable	None
28	Cloudy	Workable	None
29	Rainy	Unworkable	One (1) day
30	Rainy	Unworkable	One (1) day
31	Fair	Workable	None
Aug. 1	Fair	Workable	None
2	Fair	Workable	None
3	Fair	Workable	None
4	Fair	Workable	None
5	Fair	Workable	None
6	Fair	Workable	None
7	Cloudy	Workable	None
8	Fair	Workable	None
9	Fair	Workable	None
10	Fair	Workable	None
11	Rainy	Unworkable	One (1) day
12	Rainy	Unworkable	One (1) day
13	Cloudy, ground still muddy	Unworkable	One (1) day
14	Fair	Workable	None
15	Fair	Workable	None
16	Rainy	Unworkable	One (1) day
17	Rainy	Unworkable	One (1) day
18	Rainy	Unworkable	One (1) day
19	Cloudy, ground still muddy	Unworkable	One (1) day
20	Cloudy, ground still muddy	Unworkable	One (1) day
21	Fair	Workable	None
22	Rainy	Unworkable	One (1) day
23	Rainy	Unworkable	One (1) day
24	Cloudy, ground still muddy	Unworkable	One (1) day
25	Cloudy, ground still muddy	Unworkable	One (1) day

TOTAL EXTENSION OF TIME RECOMMENDED THIS MONTH = 15 days
TOTAL EXTENSION OF TIME RECOMMENDED PREVIOUSLY = 100 days
GRAND TOTAL TO DATE - - - - - - - - - - - - - - 115 days

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BICOL RIVER BASIN DEVELOPMENT PROGRAM OFFICE
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SES)

NAME OF [redacted]

FOR THE MONTH OF ____ [redacted] 19 80

	ADMINISTRATIVE FINANCE	ENGINEERING TECHNICAL	SKILLED	UNSKILLED
MANILA BASED 1/	[redacted]	[redacted]	[redacted]	[redacted]
LOCAL - HIRED 2/	[redacted]	[redacted]	[redacted]	[redacted]
SUB-CONTRACTORS 3/	[redacted]	[redacted]	[redacted]	[redacted]
TOTAL	[redacted]	[redacted]	[redacted]	[redacted]

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

pure*

Submitted by:

[redacted]
[redacted]

Best Available Document

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

LIST OF PERSONNEL
As of 1980

NAME	POSITION	QUALIFICATION
I. TECHNICAL STAFF		
1. Modesto C. Buenaventura	Operations Mgr.	Experienced
2. Eutrppio O. Doroy	Resident Engineer	Civil Engr.
3. Perpetuo B. Avila	Mtls. Lab.Tech/PO	Expereinced
II. ADMINISTRATIVE STAFF		
1. Efren B. Avinoula	Adm. Officer	BSC
2. Fatima B. Reyes	Comptroller	-do-
3. Gleria N. Felipe	Fld. Acctg. Officer	-do-
4. Magno A. Tomas	Gen. Timekeeper	-do-
5. Narciso S. Felipe	Warehouseman/Purchaser	-do-
6. Francisco S. Felipe	Asst. Warehouseman	-do-
7. Placido Balisbis	POL Tender	-do-
8. Mariano Panganiban	Compound Watchman	-do-
9. Antoni Ward n	-do-	-d o
10. Gregorio Macario	-do-	-do-
11. Efren San Joaquin	Field Watchman	-do-
12. Ernest Viterb	-do-	-do-
III. MECHANICAL DEPARTMENT		
1. Romeo A. Sauco	Equipment Foreman	Experienced
2. Fernando Luna	Mechanic	-do-
3. Jose Daruca	Mechanic	-do-
4. Floro Palmarin	Mechanic/Operator	-do-
5. Norberto Alambre	Mechanic helper	-do-
6. Domiciano Losa	Mechanic helper	-do-
7. Tito Jerusalem	Electrician	-do-
8. Felixberto Pelagio	Welder	-do-
9. Efren Q. Nano	Tireman	-do-
IV. DRIVERS		
1. Wilfredo Roldan	Truck Driver	Experienced
2. Pedro Malapo	-do-	-do-
3. Pio Macario Jr.	-do-	-do-
4. Luis Santos	-do-	-do-
5. Rodolfo Parro	-do-	-do-
6. Eliseo Roldan	-do-	-do-
7. Roman Maghirang	-do-	-do-
8. Carlito Atup	Pick-up driver	-do-

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V. HEAVY EQUIPMENT OPERATORS

1. Elmer Fabticante	Grader Operator	Experienced
2. Reynaldo Villavacencio	Payloader Operator	-do-
3. Juli Ripo	Dozer Operator	-do-
4. Aniano Jesus Jr.	Road Roller Operator	-do-
5. Sancho Buendia	-do-	-do-
6. Florentin Re nico	Asph.Distributor Optr.	-do-
7. Gregorio Baste	Asph. Ro. Roller Optr.	-do-
8. Ricardo Buendia	Asph. Rd. Roller Optr.	-do-

VI SURVEY AND LAB TEAM

1. Armando Parillas	Instrument man	Exper enced
2. Carlos Bislumbre	Survey Aide	-do-
3. Rafael Parillas	-do-	-do-
4. Luis de Leon	Laboratory Aide	-do-

VII MISCELLANEOUS STRUCTURES

1. Jose Mariano	Gen. Const. Foreman	Expereinced
2. Romeo Bongat	Const. Foreman	-do-
3. Pedro Bual	Carpenter	-do-
4. Jorge Proa	-do-	-do-
5. Pedro Catimbang	Laborer	-do-
6. Oscar Moreno	-do-	-do-
7. Jovenol Albe	-do-	-do-
8. Catalino Canaveras	-do-	-do-
9. Maximino Castillo	-do-	-do-
10. Carlito Caneda	-do-	-do-
11. Claudio Flores	-do-	-do-
12. Pablo Gonzales	-do-	-do-
13. Jose Garcia	-do-	-do-
14. Paterno Panganiban	-do-	-do-
15. Jose Panganiban	-do-	-do-
16. Felix Calleja Jr.	Truck helper	-do-
17. Roberto Bron	-do-	-do-
18. Santos Pagnaniban	-do-	-do-
19. Abraham Gonzales	-do-	-do-
20. Domingo Arbaca	-do-	-do-
21. Teofisto Alano	-do-	-do-

VIII. BRIDGE CONST. TEAM

1. Juanito Porterio	Bridge foreman	Experienced
2. Juan Perez	Carpenter	-do-
3. Fortunato Senson	-do-	-do-
4. Teodulo Potrimentro	-do-	-do-
5. Jose Petrimente	-do-	-do-
6. Roman Buena	-do-	-do-

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7.	Vicente Magayanes	Carpenter	Experienced
8.	Loreto Sabong	-do-	-do-
9.	Ronald Portoria	-do-	-do-
10.	Bernardo Antonio	Mason	-do-
11.	Ramon Antonio	Laborer	-do-
12.	Jaime Senson	-do-	-do-
13.	Feliciano Noble	-do-	-do-

IX ASPHALTING TEAM

1.	Nestor Mariano	Laborer	Experienced
2.	Jose Rayrundo Jr.	-do-	-do-
3.	Leo Napa	-do-	-do-
4.	Pabl Hernandez	-do-	-do-
5.	Antonio Loma	-do-	-do-
6.	Jose Buana	-do-	-do-
7.	Carlos Buena Jr.	-do-	-do-
8.	Salvador Abiog	-do-	-do-
9.	Reynaldo Agor	-do-	-do-
10.	Cesar Buena	-do-	-do-
11.	Saturnino Hernandez	-do-	-do-
12.	Abundi Opiana	-do-	-do-
13.	Paciano Reburia	-do-	-do-
14.	Antonio Rabusa	-do-	-do-

Submitted by

(Sgd.) Perpetua B. Avila
Personnel Officer/ MLT

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Annex "B"

BALH CONSTRUCTION CO., INC.
NAGA-CAROL NA[illegible] ROAD [illegible]
NAGA CITY

LIST OF EQUIPMENT
As of [illegible] 1980

1 - unit Bulldozer, Komatsu
1 - unit Bulldozer, CAT D7
2 - units Road Grader, CAT 12 99E
2 - units Payloader, VIMCO JH - 65
1 - unit Payloader, CAT 950
1 - unit Road Roller, GALION, 2 wheeled
1 - unit Cons. Mixer, 1 Bagger
1 - unit Sheepsfoot Roller, Single Drum
1 - unit Generator, G.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, 10 Wheeler
1 - unit Stake truck, IH
8 - units Dump Truck, ISUZU, 6 Wheeler
2 - units Stake Truck, TOYOTA
1 - unit Tractor Massey Ferguson, Sheepsfoot Tower
1 - unit File Hammer, D - 22
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.) EUTROPIO O. DOROY
Project Engineer

Best Available Document

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LIST OF LABORATORY EQUIPMENT
As of [illegible], 1980

One - 8 - inch Brass Sieve 3"
One - 8 - inch Brass Sieve 2"
One - 8 - inch Brass Sieve 1½"
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 - Micromeyer 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 Cone Apparatus
Three - Field Density Plates
Two - Sand Scoop
Two - Tampering Rod
One - Slump Cone
Three - Cylinder Mold
One - Beam 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. 10
One - 8 - inch Brass Sieve No. 40
One - 8 - inch Brass Sieve No. 200
Liquid Limit Device
Plastic Limit Set
Density Sand
Graduated Cylinder 25 ml.
Basin Pan 24" x 24"
Basin Pan 18" x 18"

Best Available Document

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ITEM	DESCRIPTION	ESTIMATED %	
		SCHEDULED	PROJECT
1.60.1	Force Account Work (For the Spillway)	0.08182	0
1.60.3	Provide one (1) Unit Utility for Engineer	0.22091	0.22091
1.60.4	Maintain, Operate & Repair one Unit Utility Vehicle for Eng'r	0.13050	0.13050
1.60.5	Laboratory & Office Equipment for Engineer as listed	0.30272	0.30272
100	Clearing & Grubbing	1.05289	1.05289
105(Sec.)	Roadway & Drainage Excavation	9.56004	9.56004
105(Fed)	Roadway & Drainage Excavation	4.16628	4.16628
105-4	Excavation of Unsuitable Materials	0.84941	0.84941
106	Excavation for Structures	0.19401	0.19401
107	Borrow	16.03911	15.91079
108	Aggregate Sub-base	28.33589	28.10920
110	Foundation Fill	0.04909	0.04909
111	Overhaul (300M.) Freehaul	0.22905	0.22905
200	Aggregate Based Course	11.37056	11.37056
302	M.C.Cutback Asph., Gr. MC-1 for Bituminous Prime Coat	3.41543	3.41543
314(1)	Aggregate Matl. for Bit.-Surface Treatment (Hot Asphalt)	2.01599	2.01599
314(3)	85-100 Penetration Asphalt Cement for B.S.T.	6.54541	6.54541
401	Timber (Detour) Trestle (Superstructure only on Conc.Pile)	0.16363	0.16363
402-25	Precast Concrete Piles	3.41523	3.41523
402-25a	Concrete Test Piles (Furnish and Drive)	0.36000	0.36000
403	Concrete Railing	0.10023	0.10023
405	Concrete Class "A" (Miscellaneous)	2.74294	2.74294
405-1	Concrete Class "A" (Bridge)	1.56403	1.56403
408	Reinforcing Steel	2.95600	2.95600
413	0.30M Ø R.C.P.	0.05338	0.05338
413-2	0.60M. Ø R.C.P.	0.37674	0.37674
413-3	0.90M. Ø R.C.P.	0.64227	0.64227
413-4	1.20M. Ø R.C.P.	2.27314	2.27314
500	Riprap and Grouted	0.31904	0.31904
501	Hand-Laid Embankment	0.01424	0.01424
510	Right-of-Way Markers	0.13146	0.13146
	Extra Work	0.32946	0.05294
	TOTAL	100.00	99.28% o

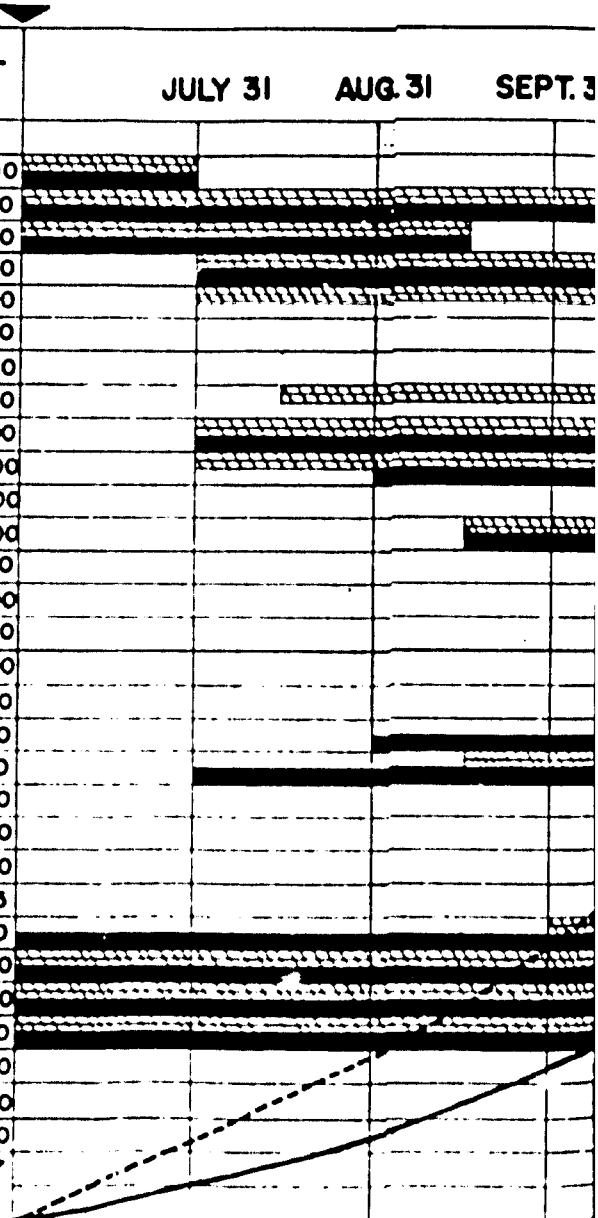
MONTHLY PERIODICAL

CUMULATIVE TOTAL

% TIME ELAPSED

JULY 15, 1978
START OF CONTRACT
TIME

IGHT ITEM	QUANTITY	UNIT COST	AMOUNT
0		Lump Sum	10,000.00
100		Lump Sum	27,000.00
100	5.5 mos.	2,900.00	15,950.00
100		Lump Sum	37,000.00
100	33.6 Has.	3,850.00	128,688.00
100	52,260 Cu.M.	22.35	1,168,458.00
100	24,248 Cu.M.	21.00	509,216.00
100	3,460 Cu.M.	30.00	103,818.00
100	1,355 Cu.M.	17.50	23,712.00
99.2	56,010 Cu.M.	35.00	1,960,350.00
99.2	54,973 Cu.M.	63.00	3,463,299.00
100	120 Cu.M.	50.00	6,000.00
100	111,980 Sta.M.	0.25	27,995.00
100	19,43.[illegible] Cu.M.	71.50	1,389,745.00
100	129 M.T.	3,236.00	417,444.00
100	1,760 Cu.M.	140.00	246,400.00
100	256 M.T.	3,125.00	800,000.00
100	2 Spans	10,000.00	20,000.00
100	540 L.M.	773.00	417,420.00
100	4 Each	11,000.00	44,000.00
100	98 L.M.	125.00	12,250.00
100	447 Cu.M.	750.00	335,250.00
100	236 Cu.M.	810.00	191,160.00
100	55,997 Kgs.	6.45	361,180.65
100	45 L.M.	145.00	6,525.00
100	161 L.M.	286.00	46,046.00
100	157 L.M.	500.00	78,500.00
100	294 L.M.	945.00	277,830.00
100	268 Cu.M.	145.00	38,994.00
100	30 Cu.M.	58.00	1,740.00
100		39.00	16,068.00
90			40,267.37
August, 1980		P 12,222,307.42	



ACCOMPLISHMENT	P 83,717.54	243,111.66	517,089.34	52[illegible]
AMOUNT		326,829.20	843,918.54	1,36[illegible]

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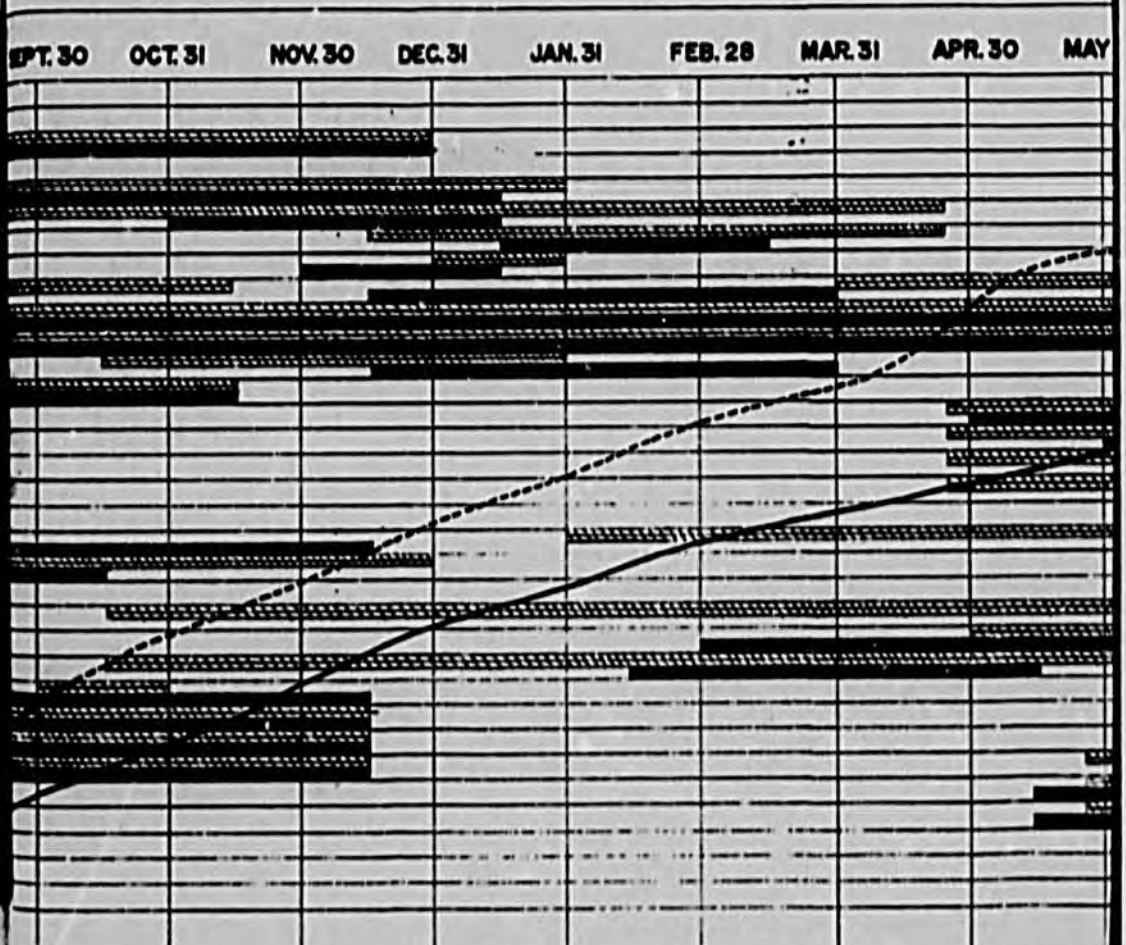
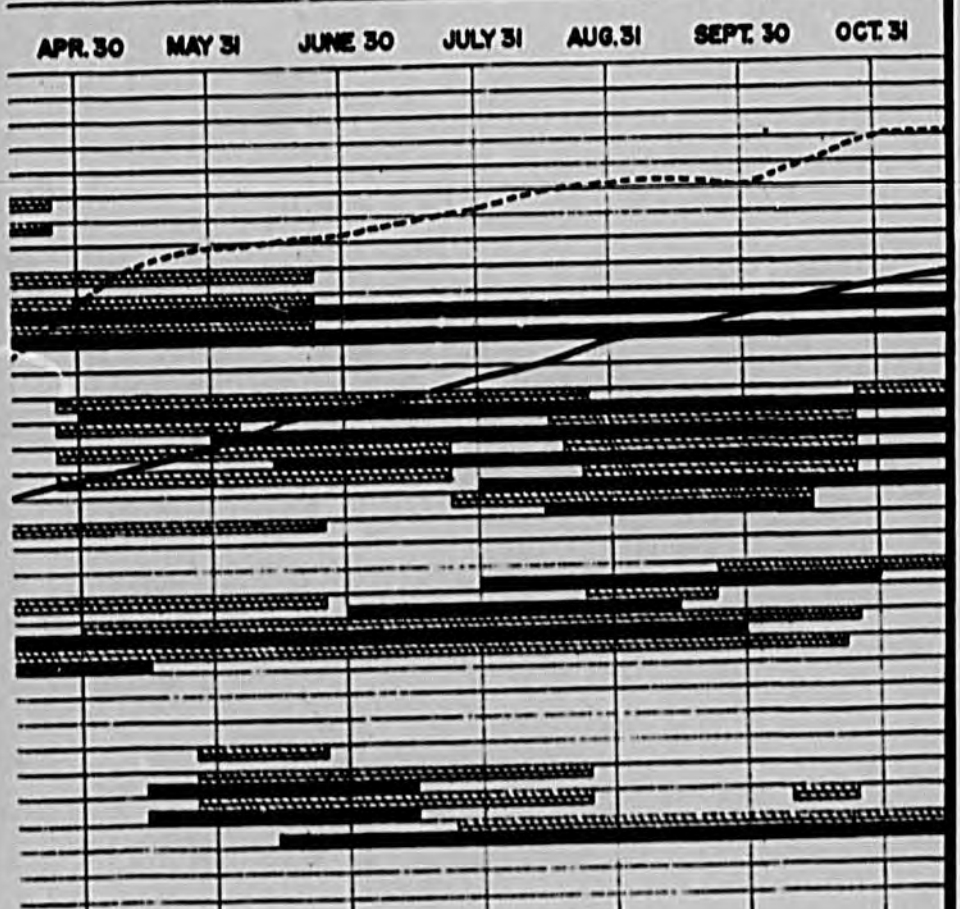
REVISED BAR SCHEDULE OF OF NAGA – CAROLINA ROAD



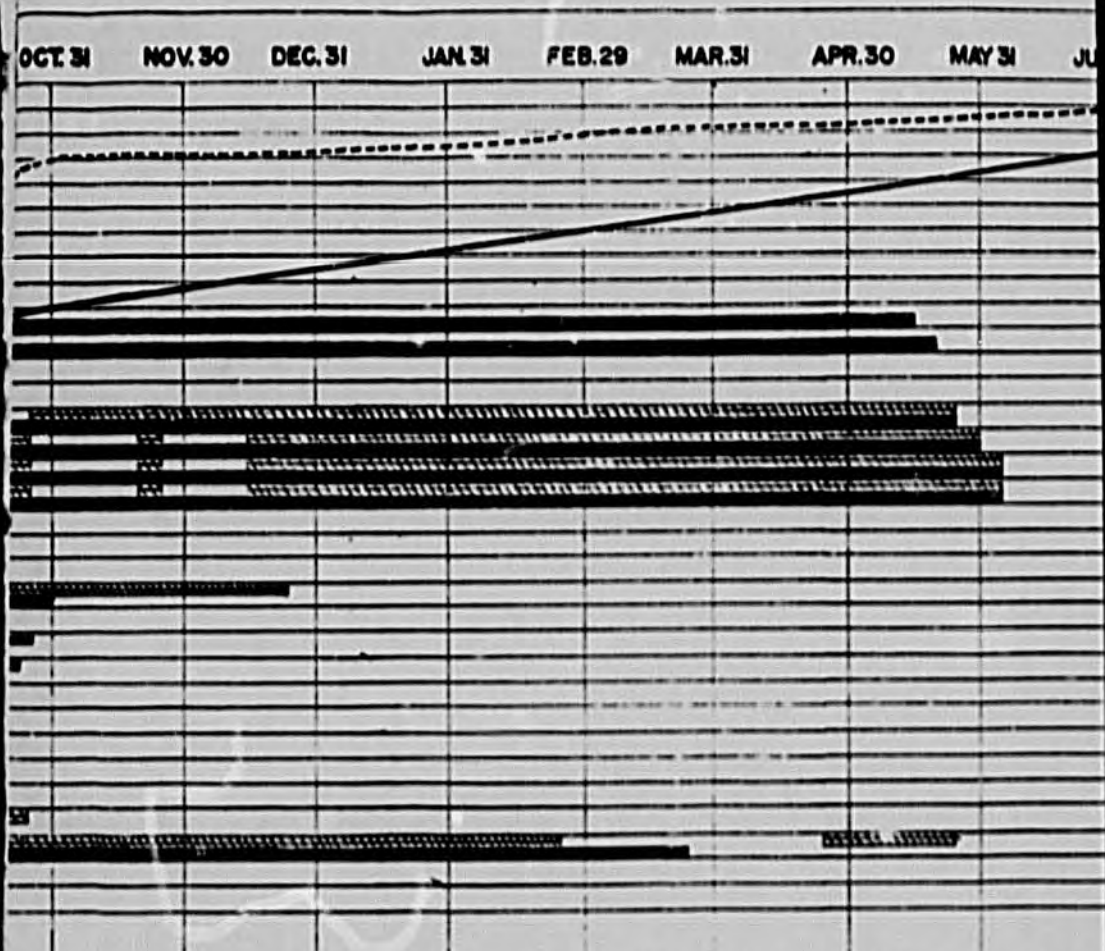
14	522,904.20	912,144.84	905,560.16	691,694.16	549,682.99	560,598.86	408,983.59	478,577.61
1	1,366,822.74	2,278,967.58	3,184,528.74	3,876,221.90	4,425,904.89	4,986,503.75	5,395,487.34	5,874,064.95
1	15.77%	20.12%	24.6%	29.09%	33.14%	37.63%	40.97%	46.45%

LE OF WORK

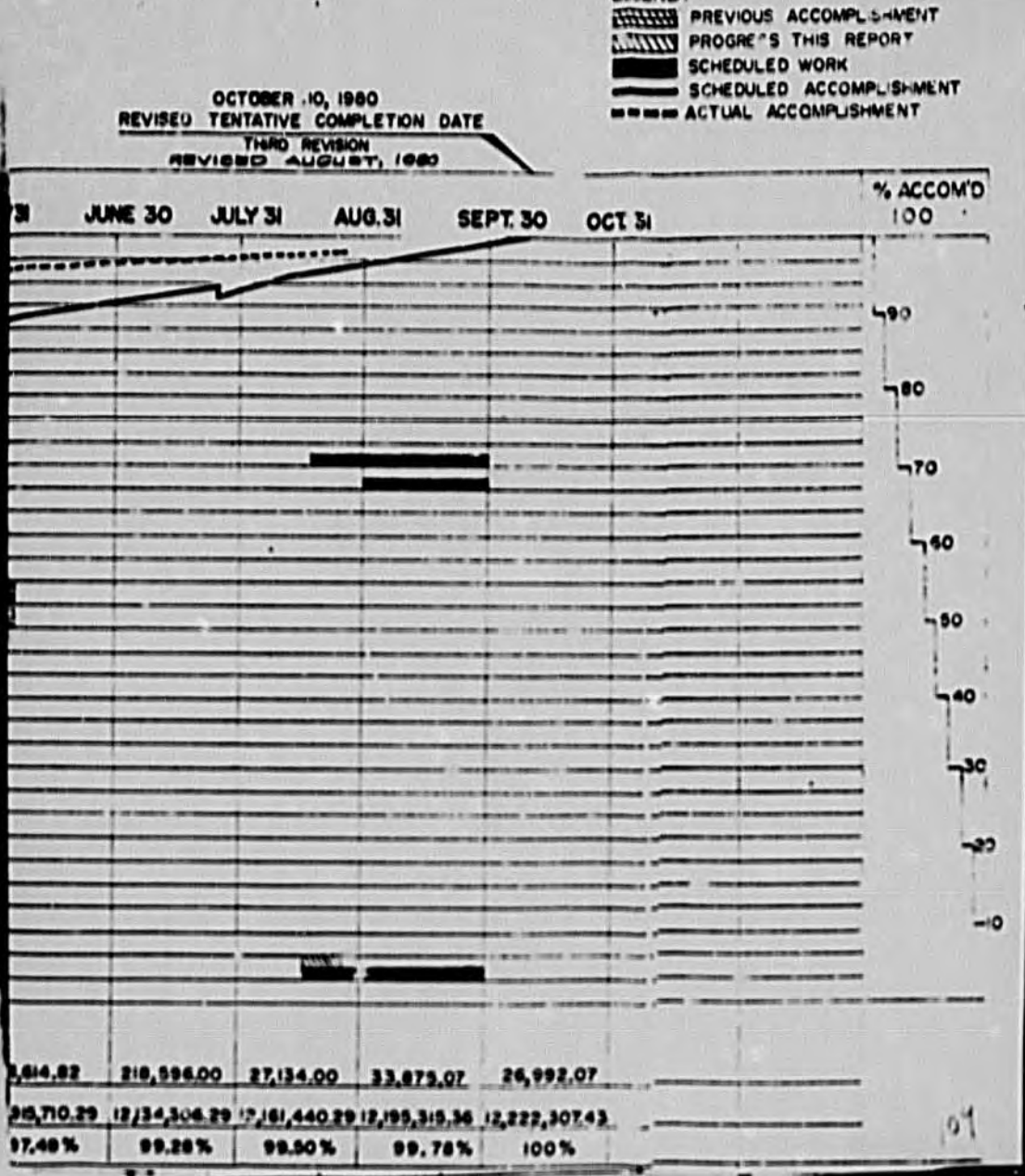
ROAD



163.59	478,577.61	440,190.14	575,618.17	678,841.79	617,159.39	526,090.00	505,9
87.34	5,874,064.95	6,314,255.09	6,889,873.26	7,568,715.05	8,185,874.64	8,711,964.64	9,215
97%	46.45%	50.80%	55.28%	59.77%	64.11%	68.60%	7



100	505,867.79	518,049.99	518,049.99	501,282.70	474,604.02	388,172.52	281,043.91	18,614.82
1.64	8,215,892.34	8,733,942.33	10,251,992.32	10,753,275.02	11,227,879.04	11,616,051.56	11,897,095.47	11,915,710.29
%	72.94%	77.42%	81.91%	86.11%	91.86%	95.04%	97.34%	97.48%


LEGEND:
PREVIOUS ACCOMPLISHMENT
PROGRESS THIS REPORT
SCHEDULED WORK
SCHEDULED ACCOMPLISHMENT
ACTUAL ACCOMPLISHMENT
OCTOBER 10, 1980
REVISED TENTATIVE COMPLETION DATE
THIRD REVISION
REVISED AUGUST, 1980
31
JUNE 30
JULY 31
AUG. 31
SEPT. 30
OCT. 31
% ACCOM'D
100
90
80
70
60
50
40
30
20
10
,614.82
218,596.00
27,134.00
33,875.07
26,992.07
915,710.29
12,134,306.29
12,161,440.29
12,195,315.36
12,222,307.43
97.48%
99.28%
99.50%
99.78%
100%

BICOL RIV

MANPOWER SCHEDULE

NAMES	POSITION	1978 1 JULY	2 AUG.	3 SEPT.	4 OCT.	5 NOV.	6 DEC
A.E. BANDELARIA	DEPUTY PROJ. MANAGER	[redacted]					
L.D. MAYOR	SR. HWY ENG'R. R.E.	[redacted]					
F.G. OBUSAN	SR. BR. ENG'R. R.E.	[redacted]					
M.D. LACSAMANA	SR. LOC. ENG'R.	[redacted]					
J.A. TORRALBA	SR. MAT'LS ENG'R. R.E.	[redacted]					
F.C. ROSALES	ADM. OFFICER	[redacted]					
L.P. JOSE	CLERK TYPIST	[redacted]					
T.S. SABABAN	MES'R JANITOR	[redacted]					

L.D. MAYOR	SR. HWY. ENG'R. R.E.	SAME AS
B.A. BAUTISTA	MATERIALS ENG'R.	[redacted]
R.L. CLARIDAD	ENG'R INSP (HWY)	[redacted]
E. REYES	ENG'R INSP (BR.)	[redacted]
B.P. BAUTISTA	SURVEYOR DRAFTS'N	[redacted]
H.B. BELLEN	LABORATORY TECH.	[redacted]
E.C. CASTILLO	LABORER	[redacted]

RIVER BASIN DEVELOPMENT PROJECT
(ROAD COMPONENTS)

HEDULE OF CONSULTANTS STAFF CONSTRUCTION SUPERVISION

PACKAGE II

			1979												1980
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
XI	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT.	OCT.	NOV	DEC.	JAN.

SUBPROJECT NO. 10 NAGA-CAROLINA ROAD

E AS IN KEY STAFF

ECT

ERVISION

18	19	20	21	22	23	24	25	26	27	28	29	30	MEN MONTHS
DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	
													27.17
													27.17
													27.17
													27.17
													27.17
													27.17
													27.17
													27.17
												SUB-TOTAL	217.36

													25
													27.17
													12
													25
													27.17
													27.17
												SUB-TOTAL	143.51

BICOL RIVER BASIN DEVELOPMENT PROGRAM OFFICE
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONSULTANT INTEGRATED PHILCONSULT, INC.

FOR THE MONTH OF [redacted] 19 80

	ADMINISTRATIVE FINANCE	ENGINEERING TECHNICAL	SKILLED	UNSKILLED
MANILA BASED 1/		[redacted]		
LOCAL - HIRED 2/	[redacted]	[redacted]		[redacted]
SUB-CONTRACTORS 3/				
T O T A L	[redacted]	[redacted]		[redacted]

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

pure*

Submitted by:

[redacted] AMANDO E. BANDELARIA
[redacted] Project Manager

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August 25, 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.

AMADO E. MADRIA
Deputy Project Manager

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