REPUBLIC OF THE PHILIPPINES
MINISTRY OF PUBLIC WORKS AND HIGHWAYS
MANILA

BICOL RIVER BASIN DEVELOPMENT PROJECTS
SECONDARY & FEEDER ROADS
CAMARINES SUR

PACKAGE I

MONTHLY CONSTRUCTION REPORT

JULY, 1982

TECHNICS GROUP CORPORATION

REPUBLIC OF THE PHILIPPINES
MINISTRY OF PUBLIC WORKS AND HIGHWAYS
MANILA

BICOL RIVER BASIN DEVELOPMENT PROJECTS
SECONDARY & FEEDER ROADS
CAMARINES SUR

PACKAGE I

MONTHLY CONSTRUCTION REPORT

LIBMANAN BRIDGE – CABUSAO SECTION ----REPORT NO. 47
(SUB-PROJECT 1) SEGMENT "B")

CALABANGA – SIBOBO SECTION ----------REPORT NO. 43
(SUB-PROJECT 3, CONTRACT PACKAGE NO. 1)

SIBOBO – TINAMBAC SECTION ----------REPORT NO. 40
(SUB-PROJECT 3, CONTRACT PACKAGE NO. 3)

DANAO – PASACAO ROAD ---------- REPORT NO. 39
(SUB – PROJECT 2)

TIGMAN AND NIMURAGAY BRIDGES ------ REPORT NO. 16
(SUB-PROJECT 3, CONTRACT PACKAGE NO. 4)

TECHNIKS GROUP CORP.
CONSULTING ENGINEERS
PHILIPPINES

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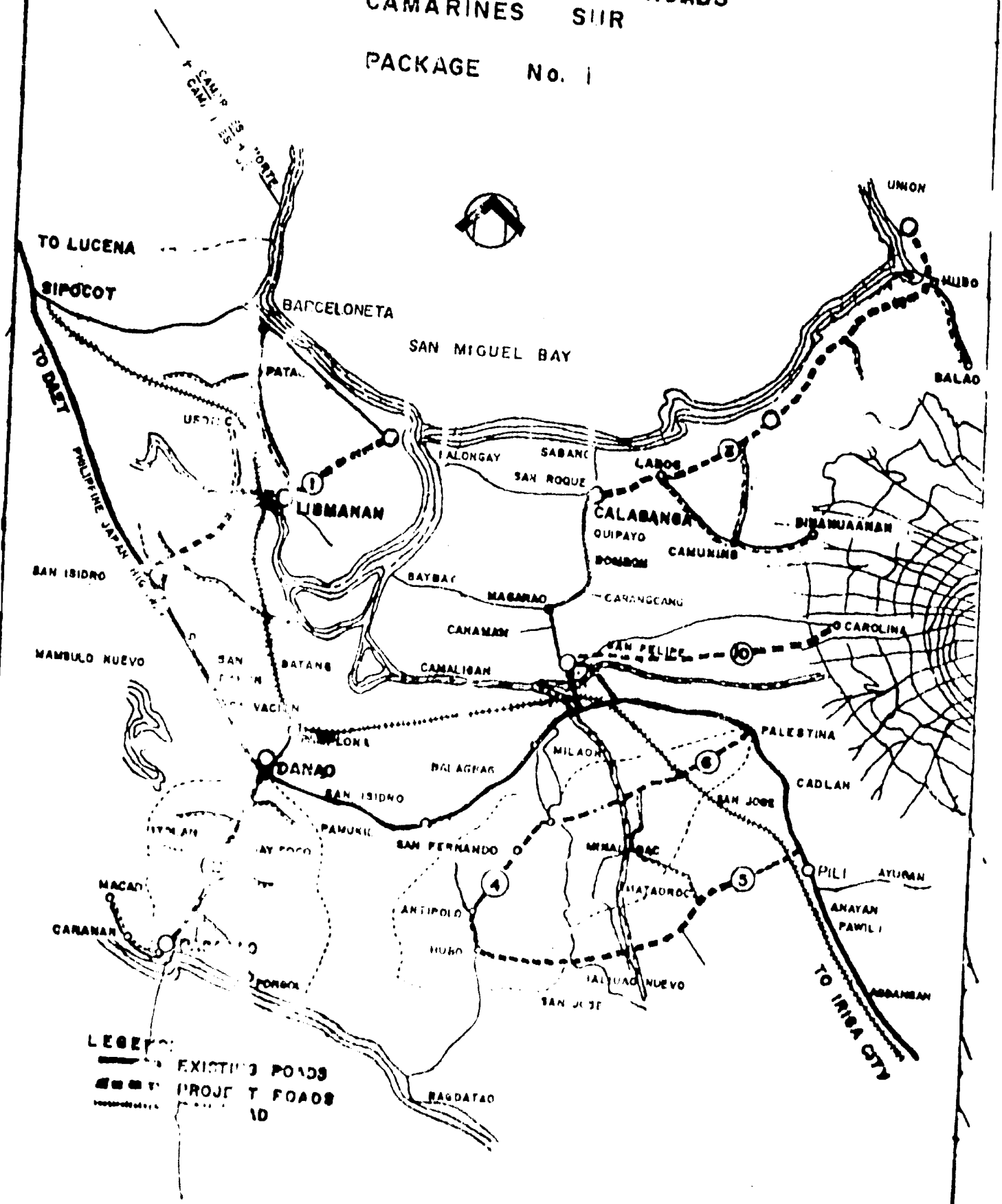
FIGURE 1

BICOL RIVER BASIN DEVELOPMENT PROJECT

SECONDARY AND FEEDER ROADS
CAMARINES SUR

PACKAGE No. 1



LOCATION PLAN

SUMMARY OF PROJECT STATUS

As of July 20, 1982

Bicol Secondary and Feeder Roads Projects
TARGET DATE (%) SUMMARY OF TOTAL ACCUMULATED % ACCOMPLISHMENT
as of July 20, 1982, for Package I

Name of Contract Section (Contractor)	Target Date (revised, latest)	PERCENT ACCOMPLISHMENT			SLIPPAGE TOTAL		REMARKS
		Previous Total	Report Period	Total (Current)	Previous	As of this Report	
1. Libraran Bridge-Cabusao Section (R.L. Umali Construction Corp.)	July 8, 1982	72.62%	23.94%	96.56%	18.78%(-)	1.01%(-)	Work progress was very satisfactory
2. Calabanga-Siboto Road Section (Pragmatic Development and Construction Corporation	August 26, 1982	88.78%	7.72%	96.50%	4.64%(-)	1.40%(-)	Work progress was satisfactory
3. Siboto-Tinambac Section (Goldrock Construction and Development Corporation	August 1, 1982	57.61%	17.50%	85.11%	30.14%(-)	25.70%(-)	High variation in accomplishment due to deletion of asphalt items as per C.O.#1
4. Daraga-Pasacao Road (Marcia Enterprises	August 22, 1982	79.41%	10.49%	89.90%(-)	5.81%(-)	4.92%(-)	Work progress was satisfactory
5. Tigman and Himuragat Bridges (A.B. Aquinaldo Construction)	March 30, 1982	87.64%	3.54%	91.18%(-) (as of March 30, 1982)	17.93%(-)	17.93%(-)	Unfavorable weather hempers the progress of construction.

CERTIFIED CORRECT.

ALEJANDRO DESBO
Project Manager

SUMMARY OF PROJECT STATUS
July, 1982

NAME OF PROJECT: LIBMANAN BRIDGE-CABUSAO SECTION

The Original contract (under R.L. Umali Construction Corporation) was terminated last November 24, 1980, with an accomplishment of 62.64%. The Balance of Work was rebidded in Manila on May 7, 1981. The successful bidder is still the R.L. Umali Construction Corporation.

NEW CONTRACT:

Balance of Work 37.36%
Contract Amount P8,471,495.28
Contract Time . . . . . 300 Calendar Days
Date Started . . . . . September 11, 1981

LEVEL OF IMPROVEMENT:

Secondary Road : P.C. Concrete Pavement . . . 8.740 Kms.
Feeder Road 103: Gravel Surfacing . . . . . 4.305 Kms.
Feeder Road 104: Gravel Surfacing . . . . . 5.020 Kms.

STATUS:

TITLE	Percent Weight Based on 37.36 Balance	Accomplishment Based on Percent (%) Weight		Status 100% Individual Section
		This Period	Accumulated	
GENERAL	0.82	0.11	0.82	2.20
SECONDARY ROAD	35.46	7.34	34.42	94.92
FEEDER ROAD 103	0.57	0	0.43	1.52
FEEDER ROAD 104	0.51	0	0.41	1.36
T O T A L	37.36	7.45	36.08	100.00

ACCOMPLISHMENT TO-DATE . . . . . P 8,179,840.00
PERCENT ACCOMPLISHED (New Contract). 96.56
PERCENT ACCOMPLISHED (Consolidated). 62.64 + 36.08 = 98.72
PERCENT TIME ELAPSED . . . (313 Calendar Days) . . . 97.20
(Based from Contract Time plus Time Extension due to Bad Weather)
SLIPPAGE . . . . . 1.01% (-)

SUMMARY OF PROJECT STATUS
(As of July 20, 1982)

NAME OF PROJECT : CALABANGA-SIPOCOT ROAD SECTION

Original contract (under Kamagong Builders & Development Corp.) was terminated last November 24, 1980 with an accomplishment of 65.53%. Concrete paving of Calabanga Poblacion of about 1.150 kms. was undertaken by Region V Construction Team with an accomplishment of 2.18%. Total accomplishment was 67.71%.

NEW CONTRACT :

Balance of Work . . . . . 32.29 %

Date of Bidding . . . . . May 7, 1981

Date Started . . . . . August 1, 1981

Contract Amount . . . . . ₱14,812,772.40

Contract Time . . . . . 390 calendar days

Contractor . . . . . Pragmatic Development & Construction Corporation

LEVEL OF IMPROVEMENT:

Secondary Road : P.C. Pavement . . . . . 10.329 kms.

Feeder Road 301 : Gravel Surfacing . . . . . 11.900 kms.

Bituminous Surface Treatment 1.000 km.

Feeder Road 302 : Gravel Surfacing . . . . . 5.283 kms.

STATUS:

TITLE	Percent Weight Based on 32.29 Balance	Accomplishment Based on % Weight		Status 100% Individual Section
		This Period	Accumulated	
GENERAL	0.32	0.03	0.31	1.04
SECONDARY & FEEDER ROADS	31.97	2.46	30.85	98.96
T O T A L	32.29	2.49	31.16	100.00

ACCOMPLISHMENT TO-DATE . . . . . ₱ 14,294,440.23

PERCENT ACCOMPLISHED (NEW CONTRACT) 96.50%

PERCENT ACCOMPLISHED (CONSOLIDATED) . . 67.71 + 31.16 . . 98.87%

PERCENT TIME ELAPSED 90.51%

SLIPPAGE . . . . . 1.40% (-)

SUMMARY OF PRJECT STATUS
July 1982

Name of Project: Sibobo - Tinambac Section

Original contract (under Kamagong Builders & Developers Corp.) was terminated as per MPH Memorandum dated November 24, 1980 with an accomplishment of 28.24%.

NEW CONTRACT:

Balance of Work 71.76%

Date of Bidding . . . . . May 7, 1981

Date Started . . . . . August 1, 1981

Contract Time . . . . . 366 calenda days

Original Contract Amount . . . . . ₱ 10,534,295.46

Revised Contract Amount (due to C.O. #1) . . . . . ₱ 9,157,978.14

Contractor . . . . Goldrock Construction & Development Corporation

LEVEL OF IMPROVEMENT:

Secondary Road: Gravel Surfacing (Item 200) . . . . 9.325 kms.

Stone Masonry (for shoulders) . . 2.517 kms.

Feeder Road 303: Gravel Surfacing (Item 108) . . . . 6.775 kms.

STATUS:

TITLE	Percent Weight Based on 71.76 Balance	Accomplishment Based on Percent (%) Weight		Status 100% Individual Section
		This Period	Accumulated	
GENERAL	1.56	0.56	1.49	2.18
SECONDARY & FEEDER ROADS	70.20	10.67	58.26	97.82
T O T A L	71.76	11.23	59.75	100.00

ACCOMPLISHMENT TO-DATE . . . . . ₱ 7,794,457.65

PERCENT ACCOMPLISHED (Revised due to C.O. #1) 85.11

PERCENT ACCOMPLISHED (Consolidated) . . . 28.24 + 59.75 =87.99

PERCENT TIME ELAPSED 96.72

SLIPPAGE (PERT/CPM) under revision due to C.O. #1). . . 25.70% (-)

NOTE: The accomplishment was based on the revised quantities due to Change Order No. 1. The latest revision of the PERT/CPM was submitted to proper authorities for approval thus, the slippage was based on the revised PERT/CPM dated December 15, 1981.

SUMMARY OF PROJECT STATUS
JULY, 1982

NAME OF PROJECT : DAVAO-PASACAO ROAD SECTION
SUB-PROJECT NO. 2

Original contract (under CST Construction and Equipment Corp.) was terminated on March 2, 1981 as per Memorandum with an accomplishment of 58.14 %.

NEW CONTRACT:

Balance of work 41.86%

Date of Bidding . . . . . May 7, 1981

Date Started . . . . . Sept. 2, 1981

Contract Amount 110,531,802.71

Contract Time . . . . . 355 cal. days

Contractor . . . . . MARCOS ENTERPRISES

LEVEL OF IMPROVEMENT:

Secondary Road : P.C. Concrete Pavement . . . . . 6.883 kms.

Feeder Road 202 : Gravel Surfacing . . . . . 8.670 kms.

STATUS:

TITLE	Percent Weight Based on 41.86 Balance	Accomplishment Based On Percent (%) Weight		Status 100% Individual Section
		This Period	Accumulated	
GENERAL	.55	0.08	0.61	1.32
SECONDARY AND FEEDER ROAD	41.31	4.31	37.02	98.68
TOTAL	41.86	4.39	37.63	100.00

ACCOMPLISHMENT TO-DATE 9,468,281.24

PERCENT ACCOMPLISHED (NEW CONTRACT) . . . . . 89.90 %

PERCENT ACCOMPLISHED (CONSOLIDATED) . . . 58.14 + 37.63 . . 95.77 %

PERCENT TIME ELAPSED . . . . . 91.55 %

SLIPPAGE . . . . . 4.22 % (-)

SUMMARY OF PROJECT STATUS

July 1982

NAME OF PROJECT TIGMAN AND HIMURAGAT RIVER BRIDGES

DATE OF BIDDING . . . . . April 23, 1980

DATE STARTED . . . . . March 30, 1981

ORIGINAL CONTRACT TIME . . . . . 240 calendar days

REVISED CONTRACT TIME . . . . . 366 calendar days

COMPLETION DATE . . . . . March 30, 1982

CONTRACT AMOUNT . . . . . ₱ 6,899,561.80

CONTRACTOR . . . . . A.B. AGUINALDO CONSTRUCTION

NET LENGTH:

TIGMAN BRIDGE . . . . . 44.740 L.M.

HIMURAGAT BRIDGE . . . . . 70.048 L.M.

LEVEL OF IMPROVEMENT . . . . . Pre-Stressed Concrete Girder on Steel H-Piles with 2-0.76 M. Sidewalk

STATUS:

TITLE	PERCENT (%) ACCOMPLISHMENT (Ind. Bridge)	ACCOMPLISHMENT BASED ON (%) WEIGHT		
		THIS PERIOD	ACCUMULATED TO DATE	TOTAL
GENERAL	100.00	0	0.92	0.92
TIGMAN BRIDGE	97.35	0.50	34.81	35.76
HIMURAGAT BRIDGE	87.57	3.04	55.45	63.32
T O T A L		3.54	91.18	100.00

ACCOMPLISHMENT TO DATE . . . . . ₱ 6,291,342.30

PERCENT ACCOMPLISHED 91.18

PERCENT CONTRACT TIME ELAPSED 130.60

SLIPPAGE (as of March 30, 1982) . . . . . 17.93 % (-)

Republic of the Philippines
MINISTRY OF PUBLIC WORKS AND HIGHWAYS
M A N I L A

MONTHLY CONSTRUCTION REPORT

For

Sub-Project I
Segment"B"

LIBMANAN BRIDGE-CABUSAO SECTION
Secondary Road

PUROBATYA-USON No. 103
LIBMANAN-PATAC-BARCELONITA No. 104
Feeder Roads

No. 47

(As Of July 20, 1982)

TECHNICS GROUP CORPORATION

PROGRESS REPORT NO. 47
July, 1982

PROJECT: LIBMANAN BRIDGE-CABUSAO SECTION
Package I, Sub-Project I, Segment "B"

I. INTRODUCTION:

This report covers the construction activities of the Contractor for the month of July, 1982 which were as follows:

a) Survey Works

b) Base Preparation

c) Concrete Paving (Item 316)

d) Installation of 0.46 M. Ø Reinforced Concrete Pipe

e) Construction of Concrete Barrier

f) Procurement of Construction Materials.

II. GENERAL SITE CONDITION:

A. WEATHER:

The weather condition for the month was generally fair except for a few rainy days caused by typhoon "EMANG" as per attached Weather Report, Annex "A-A".

B. PEACE AND ORDER:

During the period, no incident was reported within the area covered by the contract.

III. MOBILIZATION:

The equipment available at project site is shown in the List of Equipment, Annex "A-B". The percentage of equipment available is 100.

IV. PROGRESS OF WORK:

A. Secondary Road:

Survey Work:

1. Establishing and checking lines and grades prior to laying of forms.

2. Preparation of As-Built Plan is in progress.

Earthwork:

Item 106 - EXCAVATION FOR STRUCTURES

For the period, structural excavation were undertaken at Sta. 7+834.50 and 7+491 for laying of R.C. pipes and for construction of concrete barrier with an estimated volume of 15 cu.m.

Item 108 - AGGREGATE SUBBASE

For the period, more or less 1,000 cu.m. of selected borrow were properly placed and compacted from Sta. 10+950 to Sta. 13+450.

Item 118 - REPREPARATION OF PREVIOUSLY CONSTRUCTED ROAD

During the month, base was reshaped and properly compacted at Sta. 13+100 to Sta. 14+175.

Item 316 - PORTLAND CEMENT CONCRETE PAVEMENT

Concrete paving were completed at the following road sections:

Stations	Length	Remarks
11+300.00 - 11+320.00	20.00 l.m.	Left side
11+450.00 - 11+475.00	25.00 l.m.	Left side
11+607.00 - 11+800.25	193.25 l.m.	Right side
12+180.50 - 12+364.60	184.10 l.m.	Right side

Stations	Length	Remarks
12+462.30 - 12+466.35	4.05 l.m.	Right side
12+483.83 - 12+491.44	7.61 l.m.	Right side
12+562.93 - 12+809.52	246.59 l.m.	Left side
13+016.94 - 13+036.00	19.06 l.m.	Left side
13+606.50 - 13+700.60	94.10 l.m.	Right side
13+873.98 - 14+700.00	826.02 l.m.	Left side
13+990.60 - 14+700.00	709.40 l.m.	Right side
T O T A L	2,329.18 l.m.	
or about	7,104 sq.m.	

SPL - CONCRETE BARRIER

During the month, the contractor had constructed 20 pcs. of concrete barrier, and this activity is still in progress.

B. Feeder Roads:

No activity was undertaken for the month under report.

V. MATERIALS TESTING AND QUALITY CONTROL:

During this month, the Contractor's Laboratory Staff under the direct supervision of the A & E Materials Engineer performed the following laboratory and field tests:

A. AGGREGATE SUBBASE (ITEM 108)

Grading Test 5

Plasticity and Liquid Limit 5

Laboratory Compaction Test 3

B. PORTLAND CEMENT CONCRETE PAVEMENT (ITEM 316)

1) Fine Aggregate:

Grading 7

Specific Gravity 2

Absorption 2

2) Coarse Aggregate:

Grading 7
Specific Gravity 2
Absorption 2

3) Beam Samples . . . . . 22 sets

VI. ACCOMPLISHMENT ON MAJOR ITEMS: (Accumulated to-date)

A. SECONDARY ROAD:

1. Roads:

Subgrade (Item 107). . . . 9.38 Kms. - Completed

Subbase (Item 108). . . . 9.38 Kms. - Completed

Pavement (Item 316). . . . 8.659 Kms. - Partial
or 52,819 Sq.M.

2. Bridges:

Substructures . . . . . Completed

Superstructures . . . . . Completed

3. Drainage Structures: (Cross Drainage)

Stations	Size and Length	Remarks
6 + 115	1 - 0.90 m. dia. RCP x 15 m.	Completed
6 + 625	1 - 0.90 m. dia. RCP x 13 m.	-do-
6 + 999	2 - 1.20 m. dia. RCP x 17 m.	-do-
7 + 150	1 - 0.90 m. dia. RCP x 13 m.	-do-
7 + 496	1 - 0.46 m. dia. RCP x 14 m.	-do-
7 + 570	1 - 0.46 m. dia. RCP x 8 m.	-do-
8 + 250	1 - 0.60 m. dia. RCP x 12 m.	-do-
8 + 440	1 - 0.60 m. dia. RCP x 12 m.	-do-
9 + 075	1 - 0.60 m. dia. RCP x 12 m.	-do-
9 + 825	1 - 0.90 m. dia. RCP x 14 m.	-do-
10 + 291	1 - 0.90 m. dia. RCP x 13 m.	-do-
10 + 475	1 - 0.60 m. dia. RCP x 14 m.	-do-
10 + 700	1 - 0.60 m. dia. RCP x 14 m.	-do-
10 + 950	1 - 0.60 m. dia. RCP x 13 m.	-do-
11 + 150	1 - 0.60 m. dia. RCP x 13 m.	-do-
11 + 525	1 - 0.60 m. dia. RCP x 13 m.	-do-

Stations	Size and Length	Remarks
12 + 175	1 - 0.90 m. dia. RCP x 13 m.	Completed
12 + 650	1 - 0.90 m. dia. RCP x 14 m.	-do-
13 + 021	2 - 0.90 m. dia. RCP x 14 m.	-do-
13 + 335	3 - 1.20 m. dia. RCP x 13 m.	-do-
13 + 775	1 - 0.90 m. dia. RCP x 14 m.	-do-
13 + 989	1 - 1.20 m. dia. RCP x 14 m.	-do-
14 + 211	1 - 0.90 m. dia. RCP x 13 m.	-do-
14 + 525	1 - 0.90 m. dia. RCP x 13 m.	-do-

B. FEEDER ROADS:

Roads	Feeder Road 103	Feeder Road 104
Subgrade (Item 107)	4.305 Kms.	5.025 Kms.
Metalling (Item 108)	4.305 Kms.	5.025 Kms.
Bridges	None	24.00 L.M. (Timber Trestle)

a) Feeder Road 103:

Stations	Size and Length	Remarks
0 + 128	1 - 1.20 m. dia. RCP x 14 m.	Completed
0 + 500	1 - 0.60 m. dia. RCP x 8 m.	-do-
0 + 649	2 - 2.15 m. dia. RCP x 8 m. RCBC	-do-
2 + 025	1 - 0.90 m. dia. RCP x 9 m.	-do-
3 + 075	1 - 0.60 m. dia. RCP x 7 m.	-do-
3 + 225	1 - 0.90 m. dia. RCP x 12 m.	-do-
3 + 335	2 - 1.20 m. dia. RCP x 16 m.	-do-
3 + 475	1 - 0.90 m. dia. RCP x 10 m.	-do-
3 + 600	1 - 0.60 m. dia. RCP x 6 m.	-do-
3 + 725	1 - 0.90 m. dia. RCP x 9 m.	-do-
3 + 906	1 - 1.80 m. dia. RCP x 16 m. RCBC	-do-

b) Feeder Road 104:

Stations	Size and Length	Remarks
0 + 675	1 - 0.90 m. dia. RCP x 8 m.	Completed
0 + 931	1 - 0.90 m. dia. RCP x 11 m.	-do-
1 + 500	1 - 0.90 m. dia. RCP x 9 m.	-do-

Stations	Size and Length	Remarks
2 + 002	1 - 0.90 m. dia. RCP x 7 m.	Completed
2 + 161	1 - 0.80 m. x 0.80 m. x 6 m. RCBC	-do-
2 + 764	2 - 1.75 m. x 1.96 m. x 8 m. RCBC	-do-
3 + 123	3 - 0.90 m. dia. RCP x 9 m.	-do-
3 + 400	1 - 1.20 m. dia. RCP x 10 m.	-do-
4 + 025	1 - 0.60 m. dia. RCP x 7 m.	-do-
4 + 450	1 - 0.90 m. dia. RCP x 8 m.	-do-
4 + 700	1 - 0.60 m. dia. RCP x 8 m.	-do-
Item 413-1	0.46 m. dia. RCP	22 L.M.
Item 413-2	0.60 m. dia. RCP	146 L.M.
Item 413-3	0.90 m. dia. RCP	266 L.M.
Item 413-4	1.20 m. dia. RCP	143 L.M.

VII. COMMENTS AND RECOMMENDATIONS:

Accomplishment on the major item (Item 316) was very remarkable during this report period. This was due to the acquisition of two (2) MPWH transit mixers and the steady and continuous supply of cement. Weather was also very favorable and the Contractor was able to work continuously without interruption. Hence, it is anticipated that all items of work under the contract will be completed 100% at the stipulated contract time including approved time extensions.

VIII. VISITS AND MEETINGS:

A. VISITORS TO SITE:

DATE-1982	NAME	DESIGNATION	PURPOSE
June 21	Mr. Juanito dela Torre	Consultant, BRBDP	Inspection
June 26	Mr. Alejandro Deseo	Project Manager, TGC	Inspection
July 6	Mr. Oscar Bermillo	Consultant, USAID	Inspection
July 7	Mr. Silvino Casillan	Resident Engineer, PMO	Inspection
July 7	Mr. Alejandro Deseo	Project Manager, TGC	Inspection
July 14	Mr. Juanito dela Torre	Consultant, BRBDP	Inspection

DATE-1982	NAME	DESIGNATION	PURPOSE
July 15	Mr. Reynaldo Rafer	COA Representative	Inspection
July 16	Mr. Oscar Bermillo	Consultant, USAID	Inspection
July 17	Mr. Joey Fernandez	NACIAD Representative	Inspection
July 20	Mr. Silvino Casillan	Resident Engineer, PMO	Inspection

B. PROJECT CONSULTATION MEETINGS:

No Consultation Meeting

PROJECT: LIBMANAN BRIDGE-CABUSAO SECTION
(Package I, Sub-Project I, Segment "B")

WEATHER REPORT

Date - 1982	Weather Condition
June - 21	Fair
22	Fair
23	Fair
24	Fair
25	Fair
26	Cloudy
27	Cloudy w/ scattered rainshowers
28	Cloudy w/ scattered rainshowers
29	Cloudy
30	Cloudy
July - 1	Fair
2	Fair
3	Fair
4	Fair
5	Fair
6	Fair
7	Fair
8	Fair
9	Fair
10	Fair
11	Fair
12	Fair
13	Fair
14	Rainy - "Typhoon Emang"
15	Rainy - "Typhoon Emang"
16	Cloudy
17	Fair
18	Rainy
19	Cloudy w/ scattered rainshowers
20	Fair

ANNEX "A-B"

R.L. UMALI CONSTRUCTION CORPORATION
LIBMANAN BRIDGE-CABUSAO SECTION
(Package I, Sub-Project I, Segment "B")

LIST OF EQUIPMENT
(As of July 20, 1982)

DESCRIPTION	QUANTITY
Road Grader	1
Road Roller	2
Water Truck	1
Stake Truck	1
Transit Mixer	3
Crane	1
Concrete Batching Plant	1
One Bagger Mixer	1
Concrete Saw	1
Concrete Vibrator	1
Bar Cutter	1
Steel Forms for Concrete Paving	400 pcs.
Wooden Forms for Concrete Paving	300 pcs.

*The Percentage of Equipment Availability is 100.

PREPARED BY:

(SGD.) BENJAMIN R. CACERES
Project Engineer

DATE STARTED SEPTEMBER 11, 1981

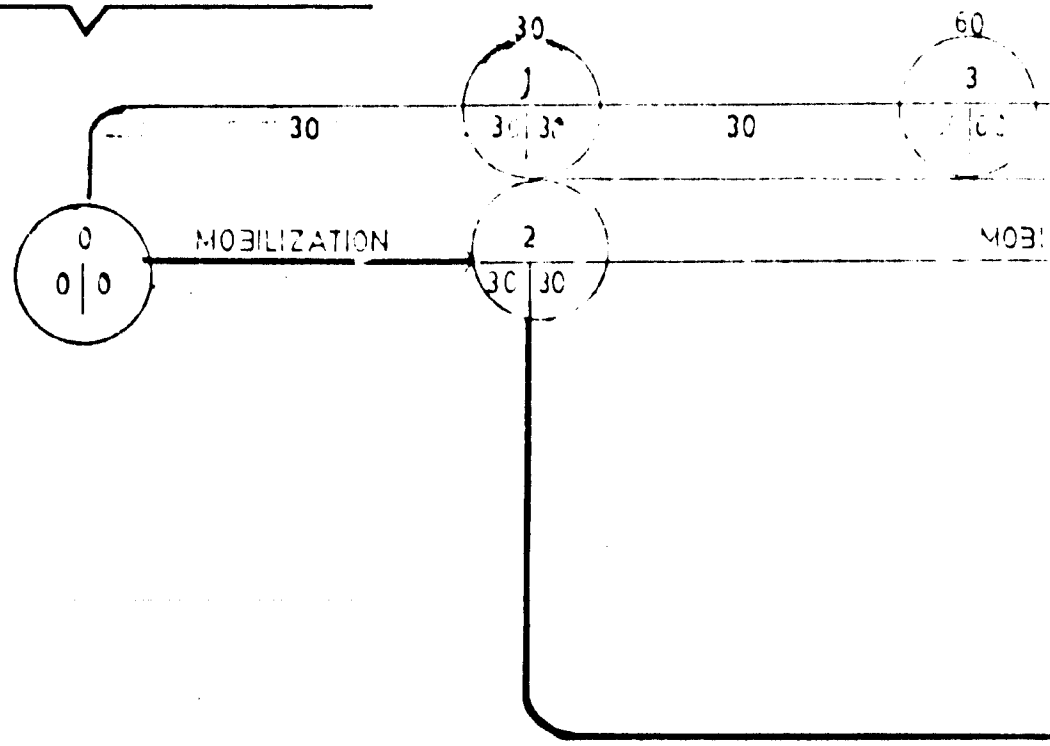
PROVIDE AND MAINTAIN OFFICE FC

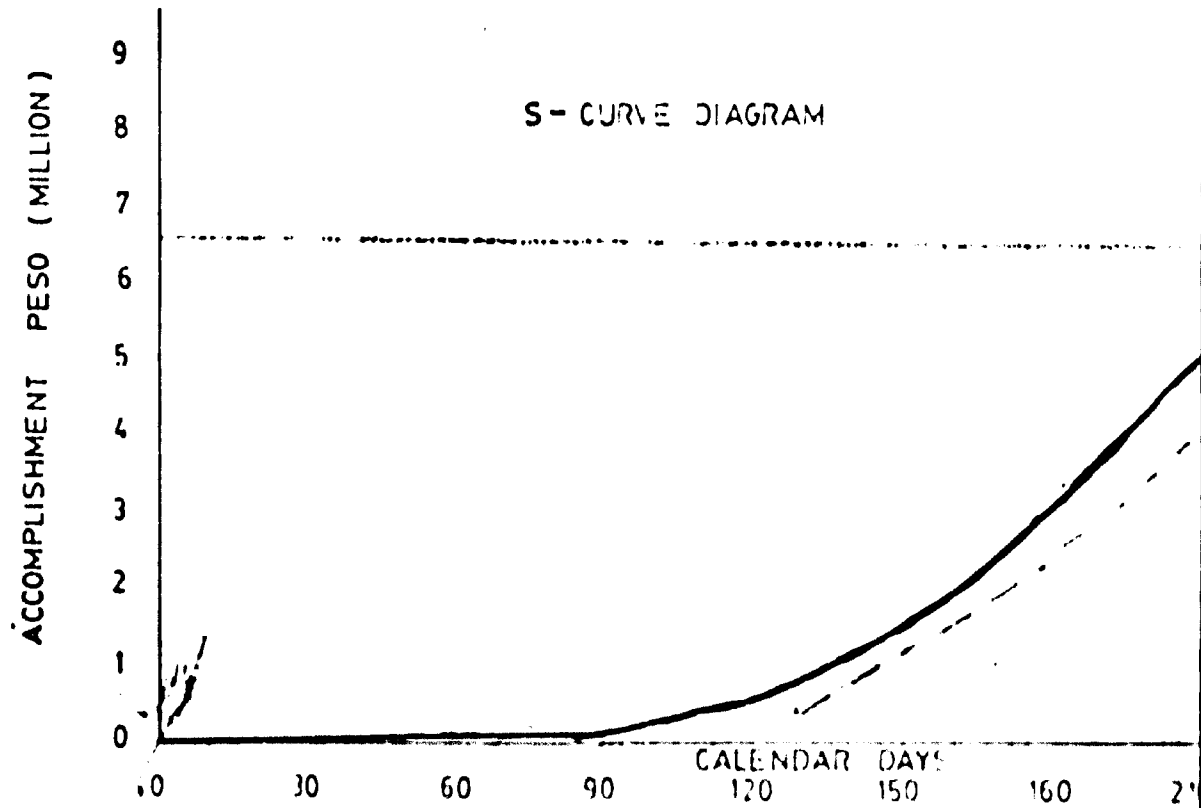
GENERAL

F.R. 104

F.R. 103

SECONDARY ROAD





MONTHLY ACCOMPLISHMENT	[illegible].173.00	[illegible]
ACCOMPLISHMENT (CUMULATIVE)	[illegible].173.00	[illegible]

SUBMITTED BY

R.L. UMALI CONSTRUCTION CORPORATION

(SGD) BENJAMIN R. CACERES

PROJECT ENGINEER

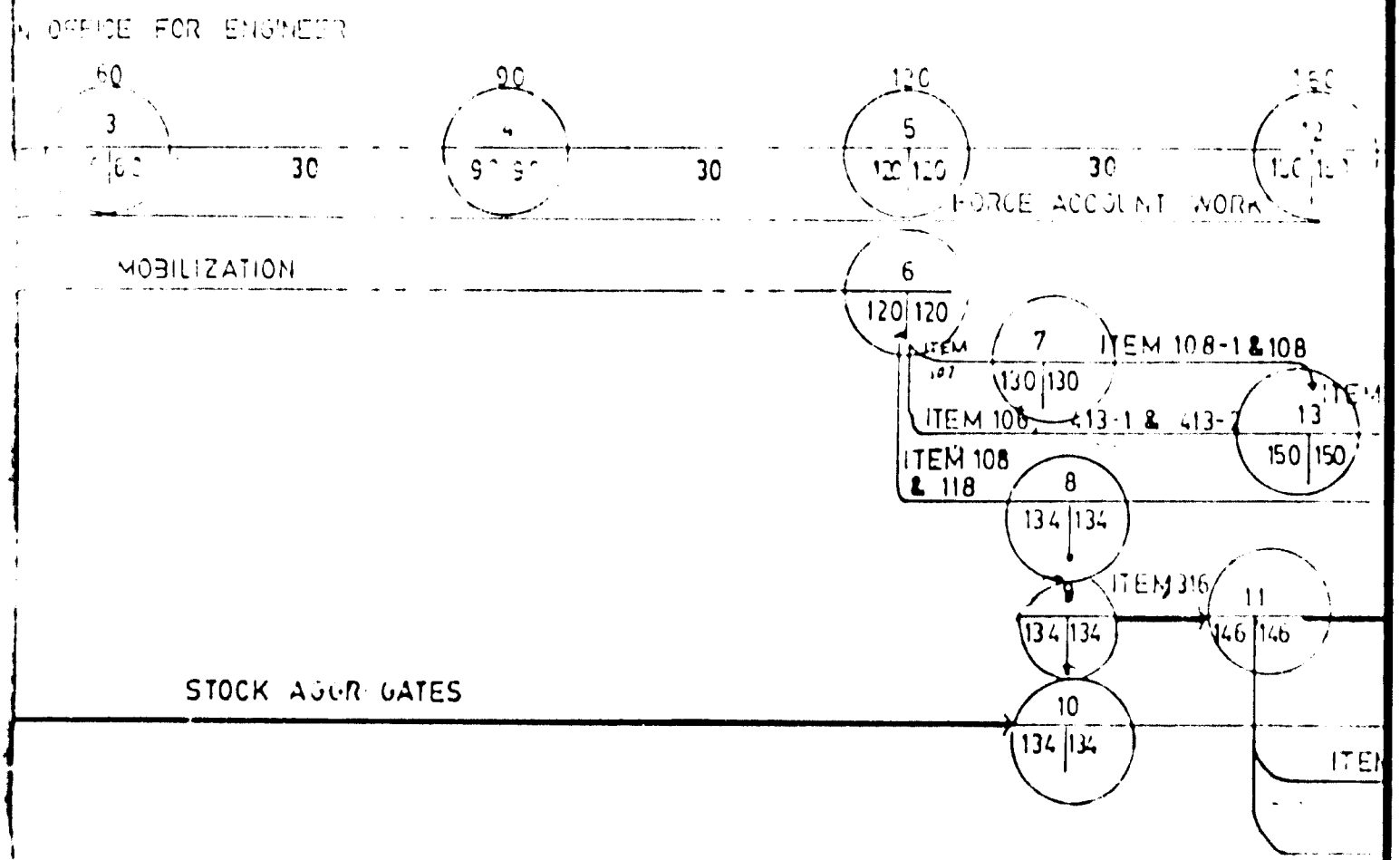
RECOMMENDING APPROVAL

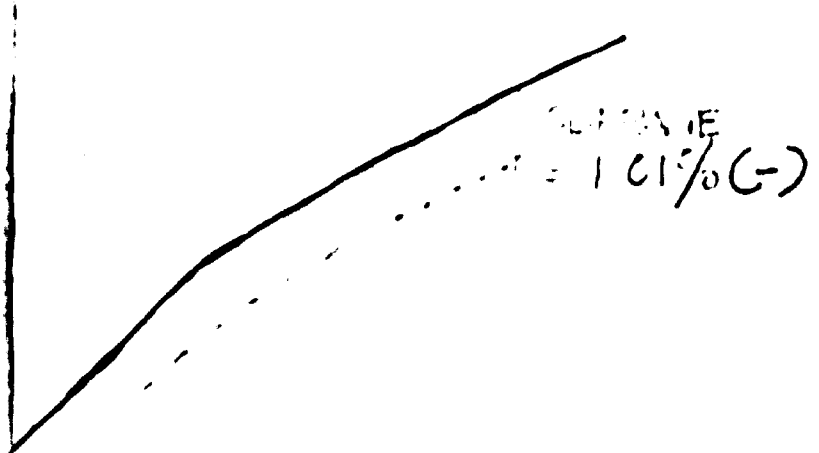
(SGD) ALEJANDRO DESE

PROJECT MANAGER

PERT CPM NET W

CONSTRUCTION OF LIBMANAN- CABUSAO RO





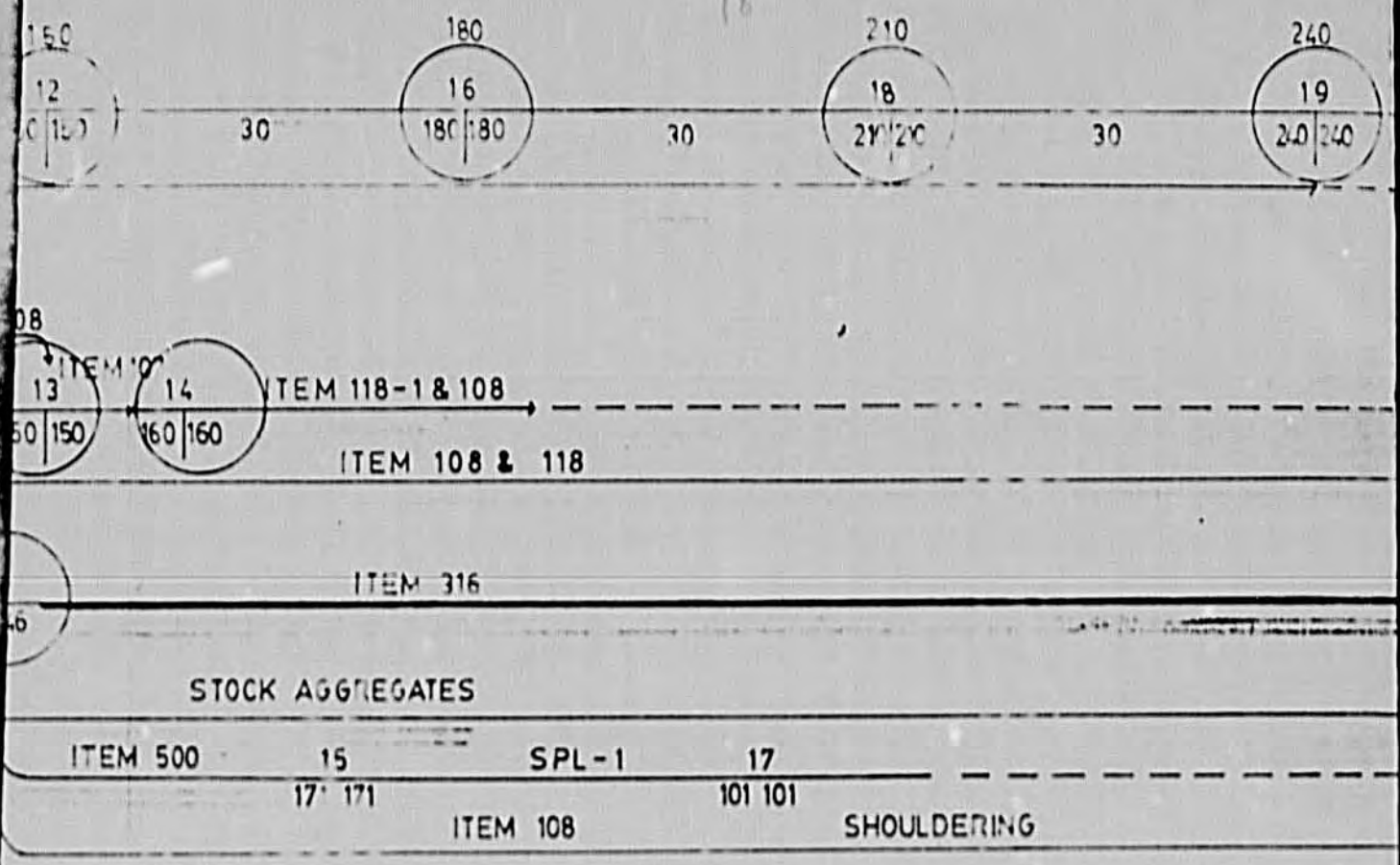
(1)	1 UNIT	ROAD GRADER 15 H
(2)	1 "	TANDEM ROLLER 8
(3)	1 "	STAKE TRUCK
(4)	1 "	CRANE 15 TONS CA
(5)	1 "	WATER TRUCK WIT
(6)	3 "	TRANSIT CONCRETE
(7)	1 "	CONCRETE BATCH P
(8)	1 "	1 BAGGER CONCRETE
(9)	2 "	CONCRETE VIBRATOR
(10)	1 "	CONCRETE SAW
(11)	1 "	BAR CUTTER
(12)	400 PCS	STEEL FORMS FOR

180	210	240	270	300	
	225,747.00		264,064.50		88,[illegible] 10
	144,051.10		608,115.60		1,[illegible]

APPROVAL		APPROVED
(SGD) DESEO MANAGER T.G.C	(SGD) ANGEL SALVADOR PROJECT MANAGER P.M.O	(SGD) VICENTE B. [illegible] PROJECT [illegible]

WORK

ROAD PACKAGE I, SUB-PROJECT I, BSFRP



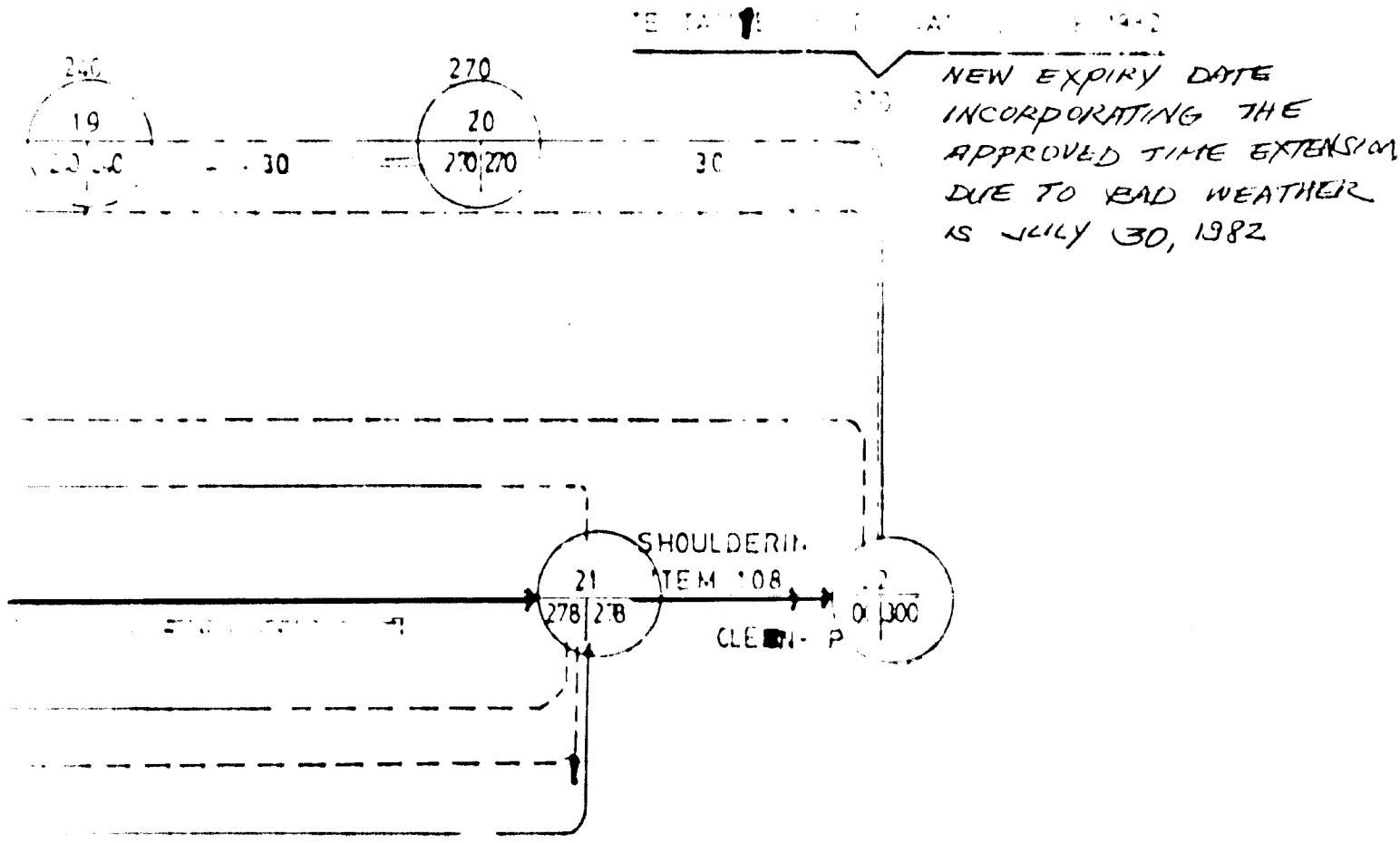
ER 15 HP
LLER 8-12 T
K
TONS CAPACITY WITH CLAMSHELL ATTACHMENT OR PAYLOADER (3/4 CU. YD.)
CK WITH PUMP & SPRINKLER AT 6,000 L CAPACITY
ONCRETE MIXERS, 8 CU. YD.
BATCH PLANT, 60 CU. M/HR.
CONCRETE MIXER
VIBRATOR, 8 HP
SAW
R
MS FOR CONCRETE PAVING

1,552,172.60	1,809,421.60	1,580,325.00	
3,044,432.30	4,853,903.90	6,434,229.00	

REVISED PROGRESS SCH
LIBMANAN-CA

NTE B. LOPEZ CESO II
PROJECT DIRECTOR

P



1,349,649.50	687,6[illegible]5.70

S SCHEDULE PERT CPM / CASH FLOW

N - CABUSAO [illegible]OAD

SUMMARY OF PROJECT ACCOMPLISHMENT
(As of July 20, 1982)

LIBMANAN BRIDGE-CAPISAO SECTION

PROJECT COMPONENT	COST	RELATIVE WEIGHT	ACCOMPLISHMENT			PERCENT (%) WEIGHTED ACCOMPLISHMENT
			PROGRAM	ACTUAL	PERCENT	
1. GENERAL Item 1.60.1 Item 1.60.2	P 186,271.00	0.022	186,271.00	186,271.00	100.00	2.20
2. EARTHWORK Item 106 Item 107 Item 108 Item 118	855,109.28	0.101	855,109.28	713,197.78	83.40	8.42
3. PAVEMENT Item 316	7,315,035.00	0.864	7,315,035.00	7,209,916.30	98.56	85.15
4. STRUCTURES Item 413-1	10,775.00	0.001	10,775.00	10,775.00	100.00	0.10
5. INCIDENTAL CONSTRUCTION Item 500 SIL	104,305.00	0.012	104,305.00	59,680.00	57.22	0.69
T O T A L	P8,471,495.28	1.000	8,471,495.28	8,179,840.08		96.56

ITEMIZED COMPUTED ACCOMPLISHMENT
(As of July 20, 1982)

LIBMANAN BRIDGE-CABUSAO SECTION

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT		
					Percentage Based on Bid Quantities	Quantity/ Volume	Value
	GENERAL						
1.60.1	Force Account Work (Maintenance of Unpaved Secondary Road)	27 Km.Mo.	4,983.00	134,541.00	100.00	27 Km.Mo.	134,541.00
1.60.2	Provide and Maintain Laboratory and Office for Engineer	10 Mo.	5,173.00	51,730.00	100.00	10 Mo.	51,730.00
		Sub - Total	.....	186,271.00	.....	..... P	186,271.00
	SECONDARY ROAD						
106	Excavation for Structures	70 Cu.M.	25.60	1,792.00	100.00	70 Cu.M.	1,792.00
108	Aggregate Subbase	10,000 Cu.M.	55.00	550,000.00	84.26	8,426 Cu.M.	463,430.00
118	Reprocessing of Previously Constructed Road (GR)	8.74 Km.	7,382.00	64,518.68	100.00	8.74 Km.	64,518.68
316	P.C. Concrete Pavement	53,590 Sq. M.	136.50	7,315,035.00	98.56	52,819.9 Sq. M.	7,209,916.30
413-1	0.46 M. Dia. R.C. Pipe	19 L.M.	290.00	5,510.00	100.00	19 L.M.	5,510.00
500	Grouted Riprap	185 Cu.M.	284.00	52,540.00	100.00	185 Cu.M.	52,540.00
SPL	Concrete Barrier	145 Ea.	357.00	51,765.00	13.79	20 Ea.	7,140.00
		Sub - Total	.....	8,041,160.68	.....	..... P	7,804,846.80

ITEMIZED COMPUTED ACCOMPLISHMENT
(As of July 20, 1982)

LIBMANAN BRIDGE-CABUGAO SECTION

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT		
					Percentage Based on Bid Quantities	Quantity/ Volume	Value
	FEEDER ROAD 103						
106	Excavation for Structures	55 Cu.M.	25.60	1,408.00	100.00	55 Cu.M.	1,408.00
107	Borrow	185 Cu.M.	30.40	5,624.00	100.00	185 Cu.M.	5,624.00
108	Aggregate Subbase	1,650 Cu.M.	55.00	90,750.00	66.30	1,094 Cu.M.	60,170.00
118-1	Reprepuration of Previously Constructed Road (FR)	4.3 Km.	5,905.00	25,391.50	93.02	4 Km.	23,620.00
413-2	0.60 M. Dia. R.C. Pipe	13 L.M.	405.00	5,265.00	100.00	13 L.M.	5,265.00
		Sub - Total . . . . . P		128,438.50	. . . . .	. . . . . P	96,087.00
	FEEDER ROAD 104						
107	Borrow	205 Cu.M.	30.40	6,232.00	100.00	205 Cu.M.	6,232.00
108	Aggregate Subbase	1,450 Cu.M.	55.00	79,750.00	71.17	1,032 Cu.M.	56,760.00
118-1	Reprepuration of Previously Constructed Road (FR)	5.02 Km.	5,905.00	29,643.10	100.00	5.02 Km.	29,643.10
		Sub - Total . . . . . P		115,625.10	. . . . .	. . . . . P	92,635.10
		GRAND TOTAL . . . . . P		8,471,495.28	. . . . .	. . . . . P	8,179,840.00

Republic of the Philippines
MINISTRY OF PUBLIC WORKS AND HIGHWAYS
M A N I L A

MONTHLY CONSTRUCTION REPORT

for

Sub-Project 3
Contract Package No. 1

CALABANGA-SIBOBO SECTION
Secondary Road

LABOG-BINANUANAN No. 301
MANGUIRING-- CAMUNING No. 302
Feeder Roads

No. 43

(As of July 20, 1982)

TECHNIKS GROUP CORPORATION

PROGRESS REPORT NO. 43
July, 1982

PROJECT : CALAPANGA-SIPOCOT ROAD SECTION
(Sub-Project 3, Contract Package No. 1)

CONTRACTOR: PRAGMATIC DEVELOPMENT & CONSTRUCTION CORPORATION

I. INTRODUCTION

This report covers the construction activities for the month of July, 1982 which were as follows:

a) Survey Works

b) Earthwork Operation

c) Repreparation of Previously Constructed Road

d) Form preparation and Concrete Pouring for Item 316 and 405

e) Installation of Right-of-Way Markers and Concrete Barriers

f) Construction of Embankment Protection (Grouted Riprap and Hand Laid rock)

g) Crushing of boulders to be used as concrete coarse aggregates.

h) Asphalting (Item 314) at Feeder Road 301.

II. GENERAL SITE CONDITION

A. WEATHER

Fair weather condition prevailed during the month except for a few days of heavy rain brought by typhoon"Esang" as shown in the attached Weather Report, Annex "B-A".

B. PEACE AND ORDER

There was no untoward incident within the project area during the month.

III. MOBILIZATION

The equipment available in the project are shown in the attached List of Equipment, Annex "B-8".

IV. PROGRESS OF WORK

A. SECONDARY ROAD

General

Item 1.60.3 - MAINTENANCE OF UNCOMPLETED ROAD SECTION

Reshaping of roadway and side ditching were done along the uncompleted road section.

Survey Work

1. Checked lines and grades for Item 316.
2. Established locations of Right-of-Way Markers and Concrete Barriers.

Earthwork

Item 107 - COMMON BORROW

Filling materials were placed at sections where grouted riprap were constructed.

Item 108 - AGGREGATE SUBBASE

Aggregate subbase materials were hauled and spread for shoulders of concrete pavement.

Item 115 - REPREPARATION OF PREVIOUSLY CONSTRUCTED ROAD

Reshaped the roadway and placed aggregate subbase materials on lower section prior to concrete paving

Surface Course and Pavement

Item 316 - PORTLAND CEMENT CONCRETE PAVEMENT

Concrete paving were completed at the following road sections:

Stations	Estimated Area
10 + 625 - 10 + 825 (left lane)	600.86 sq.m.
10 + 850 - 11 + 150 (right lane)	915.00
11 + 175 - 11 + 478 (left lane)	924.15
Total	2,440.00 sq. m.

Structures

Item 405-1 - CONCRETE CLASS "A" (DRAINAGE AND MISCELLANEOUS STRUCTURES)

The following drainage structures were completed during the month.

Structures	Stations	Estimated Volume
RCBC	2 + 890	56.00 cu.m.
RCPC	6 + 485	2.50
RCPC	8 + 025	2.50
RCPC	10 + 350	2.50
RCPC	10 + 629	2.50
Check Dams	11 + 170 - 11 + 350	10.00
RCBC	11 + 478	49.50
		125.50 cu. m.

Item 406 - REINFORCING STEEL

Cut and bent reinforcing steel bars were incorporated into the RCBC and RCPC structures mentioned in Item 405-1.

Item 413(2) - REINFORCED CONCRETE PIPE CULVERT(0.60 m. dia.)

Eight (8) lineal meters and ten (10) lineal meters of 0.60 m. dia. RC pipes were installed at Sta. 7 + 025 and Sta. 8 + 380, respectively.

Incidental Construction

Item 500 - RIPRAP AND GROUTED RIPRAP

Accomplishment of the Contractor on grouted riprap during the month was about 178 cu.m. at the following stations:

Stations	Estimated Volume
9 + 860 - 9 + 904 (right lane)	6.05 cu. m.
9 + 935 - 10 + 036 (left lane)	134.30
10 + 401 - 11 + 481 (right lane)	37.60
	177.95 cu. m.

SPL - CONCRETE BARRIERS

Thirty seven (37) concrete barriers were constructed during the month.

B. FEEDER ROAD 301

Earthwork

Item 108 - AGGREGATE SUBBASE

Hauling, spreading and compacting aggregate subbase materials is in progress. Pneumatic roller was utilized in the compaction.

Surface Coarse and Pavement

Item 302 - BITUMINOUS PRIME COAT

Prime coat was applied from Sta. 9 +700 to Sta. 9 + 800 (right lane) and from Sta. 9 + 700 to Sta. 9 + 800 (left lane).

Item 314(1) - AGGREGATE FOR BITUMINOUS SURFACE TREATMENT (HOT ASPHALT TYPE)

Crushed aggregates were placed at stations mentioned under Item 302.

Item 314(3) - ASPHALT CEMENT, PENETRATION GRADE 85-100, FOR BITUMINOUS SURFACE TREATMENT

Asphalt cement at sections mentioned in Item 302 were completed during the month.

Incidental Structures

Item 510 - RIGHT-OF-WAY MARKERS

Installation of right-of-way markers were completed.

C. FEEDER ROAD 302

The Contractor had started clearing, re-ditching and reshaping of roadway during the month.

V. MATERIALS TESTING AND QUALITY CONTROL

Performed during this month by the Contractor's Laboratory Staff under the supervision of the Consultant Materials Engineer were the following laboratory and field tests:

I - SECONDARY ROAD

Item 316 - PORTLAND CEMENT CONCRETE PAVEMENT

1. Fine Aggregates

a) Grading 5

b) Specific Gravity 1

c) Absorption 1

d) Unit Weight 1

2. Coarse Aggregate

a) Grading 5

b) Specific Gravity 1

c) Absorption 1

d) Unit Weight 1

II - Beam Samples Taken . . . . . 21 sets

III - Beam Samples Tested . . . . . 39 beams

IV - Cylinder Samples Taken . . . . . 3 sets

V - Cylinder Samples Tested . . . . . 7 cylinder

VI - Sample of Cement sent to Manila for Quality Test 2

Item 413 - REINFORCED CONCRETE PIPE CULVERT

a) Inspection Report 1

Item 500 - RIPRAP AND GROUTED RIPRAP

a) Inspection Report on Stones . . . 1

Item 510 - RIGHT-OF-WAY MARKERS

Grading:

a) Fine Aggregates 2

b) Coarse Aggregates 2

S P L - CONCRETE BARRIERS

Fine Aggregates:

a) Grading 1

b) Specific Gravity 1

Coarse Aggregates:

a) Grading 1

b) Specific Gravity 1

II. FEEDER ROAD 301

Item 108: AGGREGATE SUBBASE

a) Grading 6

b) Plasticity Test 6

c) Compaction 2

d) Field Density Test 18

Item 314 - BITUMINOUS SURFACE TREATMENT

Coarse Aggregate:

a) Grading 1

b) Specific Gravity 1

c) Abrasion test 1

Choker and Cover Aggregates:

a) Grading 1

b) Specific Gravity 1

Item 405 - CONCRETE CLASS "A"

Grading:

a) Fine Aggregates 2

b) Coarse Aggregates 2

VI. ACCOMPLISHMENT ON MAJOR ITEMS (Accumulated as of this report period)

A. SECONDARY ROAD

Subgrade . . . . . 10.329 kms.

Sta. 1 + 150 - Sta. 11 + 478 - completed

Subbase . . . . . 9.850 kms.

Sta. 1 + 150 - Sta. 11 + 478 - completed

P.C. Concrete Pavement . . . . . 66,399 sq. m.

Stations	Remarks
1 + 154 - 9 + 904 (whole lane)	Completed
9 + 939 - 10 + 030 (right lane)	-do-
10 + 030 - 10 + 825 (whole lane)	-do-
10 + 825 - 11 + 150 (right lane)	-do-
11 + 175 - 11 + 478 (left lane)	-do-

Drainage Structures

REINFORCED CONCRETE BOX CULVERT

Sta. 0 + 166	1 - 0.80 x 0.80 x 8.10 m.	Completed
Sta. 0 + 775	1 - 0.80 x 0.80 x 8.10 m.	-do-
Sta. 1 + 423	1 - 0.80 x 0.80 x 8.10 m.	-do-
Sta. 4 + 029	2 - 1.80 x 2.10 x 21.50 m.	-do-
Sta. 7 + 175	1 - 1.80 x 1.80 x 20.00 m.	-do-
Sta. 10 + 189	2 - 2.40 x 1.80 x 18.00 m.	-do-
Sta. 11 + 478	2 - 3.90 x 2.25 x 6.00 m.	-do-

REINFORCED CONCRETE PIPE CULVERT

Item No.	Description	% Accomplishment
412-2	0.60 m. dia. = 10 l.m.	100%
412-2	0.60 m. dia. = 8 l.m.	100%
412-2	0.60 m. dia. = 81 l.m.	100%
413-3	0.90 m. dia. = 53 l.m.	100%
413-4	1.20 m. dia. = 36 l.m.	86.67%

B. FEEDER ROAD 304

Subgrade . . . . . 12.9 kms.

Sta. 0 + 013 to Sta. 12 + 913 - completed

Subbase . . . . . 12.60 kms.

Sta. 0 + 013.05 to Sta. 12 + 613 - completed

Sta. 12 + 613 to Sta. 12 + 913 - partial

Asphalt Cement, Penetration Grade 85-100 . . . . . 1.00 km.

Sta. 9 + 200 to Sta. 9 + 800 (right lane) - completed

Sta. 9 + 700 - 9 + 800 (left lane) - completed

Sta. 10 + 035 - 10 + 100 (whole lane) - completed

REINFORCED CONCRETE PIPE CULVERT

Item No.	Description	% Accomplishment
413-2	0.60 m. dia. = 18 l.m.	100
413-2	0.60 m. dia. = 24 l.m.	100
413-2	0.60 m. dia. = 18 l.m.	82.57
413-4	1.20 m. dia. = 100 l.m.	90.90

C. FEEDER ROAD 302

Subgrade . . . . . 5.28 kms.

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

Subbase . . . . . 5.26 kms.

Sta. 0 + 014.72 - Sta. 5 + 278 - completed

Drainage Structures

Reinforced Concrete Pipe Culverts

Sta. 1 + 423	1 - 0.80 x 0.60 x 9.10 m.	- Completed
Sta. 4 + 028	2 - 1.80 x 2.10 x 21.50 m.	-do-
Sta. 7 + 175	1 - 1.80 x 1.70 x 20.00 m.	-do-
Sta. 10 + 189	2 - 2.40 x 1.60 x 18.00 m.	-do-
Sta. 11 + 478	2 - 3.90 x 2.85 x 6.00 m.	-do-

VII. COMMENTS AND RECOMMENDATIONS

The overall accomplishment of the contractor as of to-date is satisfactory. The P.C. Concrete Pavement which is the major item

in the project is 97.04 % completed and the remaining 2.96% balance of work could be finished before the scheduled time. However, to insure early completion of the project, the Contractor was advised to speed-up the completion of incidental structures, shouldering of concrete pavement and asphalting work at Feeder Road 301.

VIII. VISITS AND MEETINGS

A. VISITORS TO SITE

Name	Designation	Date - 1982	Purpose
Alejandro Deseo	Project Manager, TCC	June 24	Inspection
Silvino Casillan	Resident Engineer, PTO	June 24	-do-
Terry C. Fernandez	Civil Engineer, USAID/Phil.	June 25	-do-
Alejandro Deseo	Project Manager, TCC	June 30	-do-
Angel Salvador	Project Manager, PTO	June 30	-do-
Juanito de la Torre	Consultant, NRDDP	July 6	-do-
Manuel Diaz	NRDDP	July 6	-do-
Alejandro Deseo	Project Manager, TCC	July 8	-do-
Alejandro Deseo	Project Manager, TCC	July 12	-do-
Alejandro Deseo	Project Manager, TCC	July 13	-do-
Juanario Ramos	Vice President, PDCC	July 13	-do-
Oscar Marcillo	USAID	July 13	-do-
Angel Salvador	Project Manager, PTO	July 14	-do-
Juanito de la Torre	Consultant, NRDDP	July 16	-do-
Manuel Diaz	NRDDP	July 16	-do-

ANNEX "B-A"

PROJECT : CALAMANGA-SIBOCO ROAD SECTION
(Sub-Project 3, Contract Package No. 1)

WEATHER REPORT

DATE - 1982		WEATHER CONDITION
June	21	Clear
	22	Fair
	23	Fair
	24	Fair
	25	Clear
	26	Fair
	27	Fair
	28	Fair
	29	Fair
	30	Fair
July	1	Clear to fair
	2	Fair
	3	Fair
	4	Clear
	5	Fair
	6	Cloudy
	7	Fair
	8	Fair
	9	Clear, rainy in the afternoon
	10	Cloudy
	11	Fair, rainy in the afternoon
	12	Fair
	13	Fair
	14	Rainy, typhoon "Esang"
	15	Rainy, typhoon "Esang"
	16	Cloudy to fair
	17	Fair
	18	Fair
	19	Clear
	20	Clear

ANNEX "B-B"

PRAGMATIC DEVELOPMENT AND CONSTRUCTION CORPORATION
Calabanga-Sibobo Road Section
Sub-Project #3, Package I

LIST OF EQUIPMENT
(As of July 20, 1982)

DESCRIPTION	QUANTITY
Bulldozer	2
Front End Loader	3
Dump Trucks	8
Road Grader	2
Road Roller	2
Water Truck	1
Water Pump	3
Rock Crusher (Primary & Secondary)	1
Concrete Vibrator	3
Vibrator Screed	2
Two-bagger Concrete Mixer	2
Welding Machine	1
Bar Cutter	2
Transit Concrete Mixer	2
Wooden Forms	1,000
Batch Plant	1
Asphalt Kettle w/ Sprayer Distributor	1

Percentage of Equipment Availability = 95%

Submitted by:

(SGD.) LUCIO G. OLIZO
Asst. Project Engineer

TECHNIRS GROUP CORPORATION
Engineers-Consultants
Calabanga-Sibobo Road Section
Naga, Calabanga, Cam. Sur

Subject : WEEKLY PROJECT CONSULTATION MEETING

Date : June 24, 1982

Time : 4:00 - 5:00 P.M.

Attendees :

Mr. Teofilo T. Tanjuatco III	-	Project Manager, PDCC
Mr. Lucio G. Olaño	-	Asst. Project Engineer, PDCC
Mr. Luis G. Gonzila	-	Resident Engineer, TGC
Mr. Sergio B. Perez	-	Engineer Inspector
Mr. Luten A. Paglatipanan	-	Materials Engineer, TGC

Minutes :

1. The Contractor was advised by the Consultant to start painting the concrete barriers with the required black and white reflectorized paints.
2. As requested by the principal of Bangkiring Elementary School, the Contractor provided five "school zone" warning signs.
3. The Contractor was required by the Consultant to submit (at least 24 hours before work can be started) work requests for approval to cover applications of Items 305 and 312 relative to asphalting work in Feeder Road 301.

Attested by:

LUCIO G. OLAÑO
Asst. Project Engineer, PDCC

LUIS G. GONZILA
Resident Engineer, TGC

TECHNICS GROUP CORPORATION
Engineers-Consultants
Calabanga-Sibobo Road Section
Tacolto, Calabanga, Cam. Sur

Subject : PROJECT CONSULTATION MEETING

Date : July 1, 1983

Time : 4:00 - 5:00 P.M.

Attendees :

Mr. Lucio G. Glaso	-	Asst. Project Engineer, PDCC
Mr. Antonio F. Abogado	-	Sr. Matls. Lab. Tech., PDCC
Mr. Luis G. Gomilla	-	Resident Engineer, TGC
Mr. Sergio B. Perez	-	Engineer Inspector, TGC

Minutes :

1. The Consultant advised the Contractor to increase the supply of concrete coarse aggregates to avoid delay in Item 316 work. The present stock-pile of coarse aggregates for Item 316 becomes smaller after each pouring day and its replenishment is needed.
2. The Contractor agreed to start cleaning and reshaping, etc. of Feeder Roads 301 and 302 preparatory to its turn over.

Attested by:

LUCIO G. GLASO
Asst. Project Engineer, PDCC

LUIS G. GOMILLA
Resident Engineer, TGC

TECHNICS GROUP CORPORATION
Engineers-Consultants
Calabanga-Libmanan Road Section
Naga, Calabanga, Cam. Sur

Subject : PROJECT CONSULTATION MEETING

Date : July 8, 1982

Time : 4:15 - 4:35 P.M.

Attendees :

Mr. Lucio G. Olasa	-	Asst. Project Engineer, PDCC
Mr. Antonio F. Abogado	-	Sr. Public. Int. Tech., PDCC
Mr. Luis G. Cecilia	-	Resident Engineer, TGC
Mr. Sergio B. Teres	-	Engineer Inspector, TGC
Mr. Ruben A. Magastipunan	-	Materials Engineer, TGC

Minutes :

1. The Contractor was advised by the Consultant to have an early start, if possible, on concrete paving because during this time of the year rains usually come almost every afternoon.

2. The Consultant advised the Contractor to start the work on handlaid rock embankment from sta. 8 + 050 to sta. 8 + 300 and from sta. 11 + 550 to sta. 11 + 900, and also to provide grouted riprap at the downstream sides for RCPC at sta. 9 + 951 and at sta. 11 + 526, all in Feeder Road XI.

Attested by:

LUCIO G. OLASA
Asst. Project Engineer, PDCC

LUIS G. CECILIA
Resident Engineer, TGC

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SUCCEEDING EVENTS

PRECEDING EVENTS

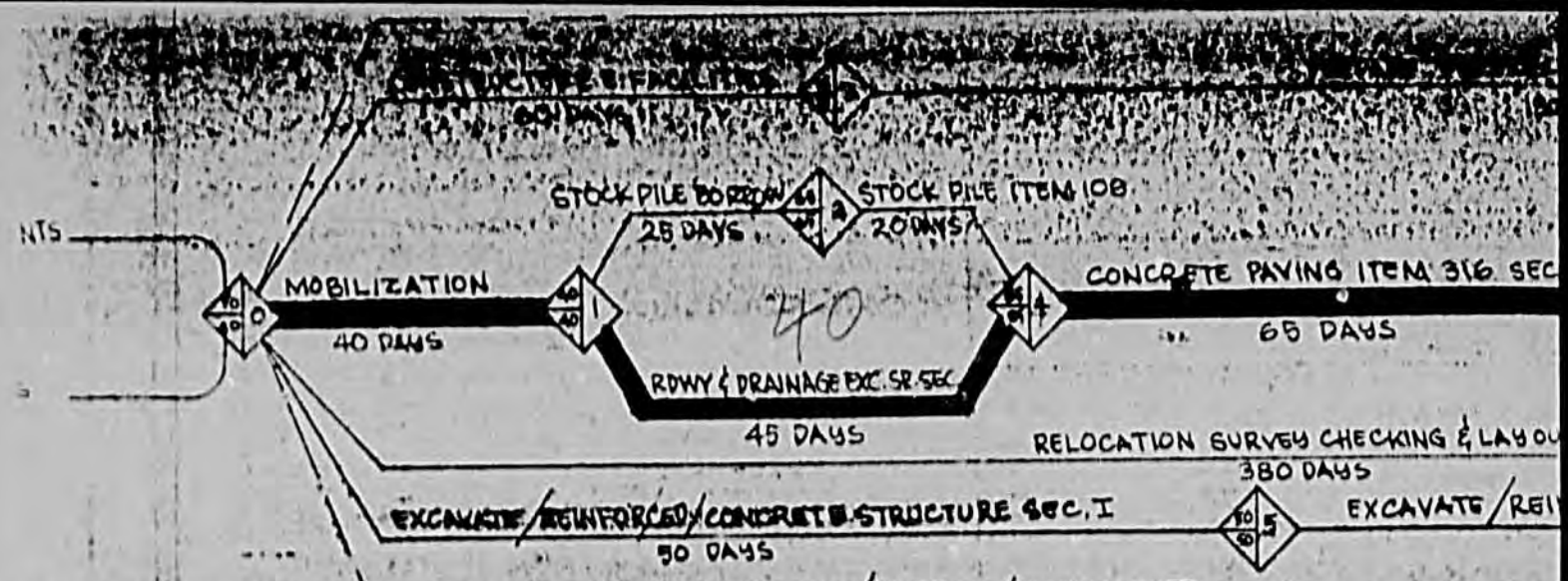
Date shortcut

ITEM No.	DESCRIPTION OF WORK	QUANTITY	UNIT COST	COST
160.1	PROVIDE & MAINTAIN LAB & OFFICE FOR THE ENGINEER	L.S.	L.S.	[illegible]
160.2	ADDITIONAL LAB & OFFICE EQUIPMENT FOR THE ENGINEER	L.S.		
160.3	FORCE ACCOUNT WORK (MAINTENANCE OF UNCOMPLETED SECTION)	16 KM.M.O.	[illegible]	[illegible]
160.4	FORCE ACCOUNT WORK (DEMOLITION OF END SECTION OF EXISTING IRRIGATION R.C. BOX CULVERT)	L.S.		[illegible]
103 (2)	REMOVAL OF CULVERT	2 @	[illegible]	[illegible]
105 (1)	ROADWAY AND DRAINAGE EXCAVATION (WASTE)	2692 M^3	[illegible]	[illegible]
105 (2)	ROADWAY AND DRAINAGE EXCAVATION (ROCK)	730 M^3	[illegible]	[illegible]
105 (3)	ROADWAY AND DRAINAGE EXCAVATION (CUT & FILL)	11724 M^3	[illegible]	[illegible]
106	EXCAVATION FOR STRUCTURES	574 M^3	[illegible]	[illegible]
107	COMMON BORROW	1050 M^3	[illegible]	[illegible]
108	AGGREGATE SUB BASE	17300 M^3	[illegible]	[illegible]
110	FOUNDATION FILL	47 M^3	[illegible]	
118	REPREPARATION OF PREVIOUSLY CONSTRUCTED ROAD (SECONDARY)	99 KM.	[illegible]	[illegible]
116 (1)	REPREPARATION OF PREVIOUSLY CONSTRUCTED ROAD (FEEDER)	12.6 KM.	[illegible]	[illegible]
302 (1)	MEDIUM CURING CUT BACK-ASPHALT GRADE MC-1 PRIME COAT	3 MT.	[illegible]	[illegible]
314 (1)	AGGREGATE FOR BITUMINOUS SURFACE TREATMENT	15 M^3	[illegible]	[illegible]
314 (3)	ASPHALT CEMENT PENETRATION GRADE 85/100 FOR BITUMINOUS TREATMENT	13 MT	[illegible]	[illegible]
316	PORTLAND CEMENT CONCRETE PAVEMENT	[illegible] M^3	[illegible]	[illegible]
405 (1)	CONCRETE CLASS "A"	198 M^3	[illegible]	[illegible]
406	REINFORCING STEEL	26,830 K.G.	[illegible]	[illegible]
413 (2)	0.60 M ϕ RCPC	56 LM.	[illegible]	[illegible]
413 (4)	1.20 M ϕ RCPC	9 LM	[illegible]	[illegible]
500	RIPRAP AND GROUTED RIPRAP	830 M^3	[illegible]	[illegible]
501	HAND LAID ROCK EMBANKMENT	1,100 M^3	[illegible]	[illegible]
509 (3)	UNDERDRAIN 0.45 M ϕ PERFORATED CONCRETE PIPE	10 LM	[illegible]	[illegible]
509 (5)	AGGREGATE FOR UNDERDRAIN	30 M^3	[illegible]	[illegible]
[illegible]	RIGHT-OF-WAY MARKER	[illegible]	[illegible]	[illegible]
[illegible]	CONCRETE BARRIER	[illegible]	[illegible]	[illegible]

MONTHLY CASH FLOW
CUMULATIVE AMOUNT

SUBMITTED BY:
PRADVATI DEV & CONSTRUCTION CORP.

RECOMMENDED BY:
[illegible]



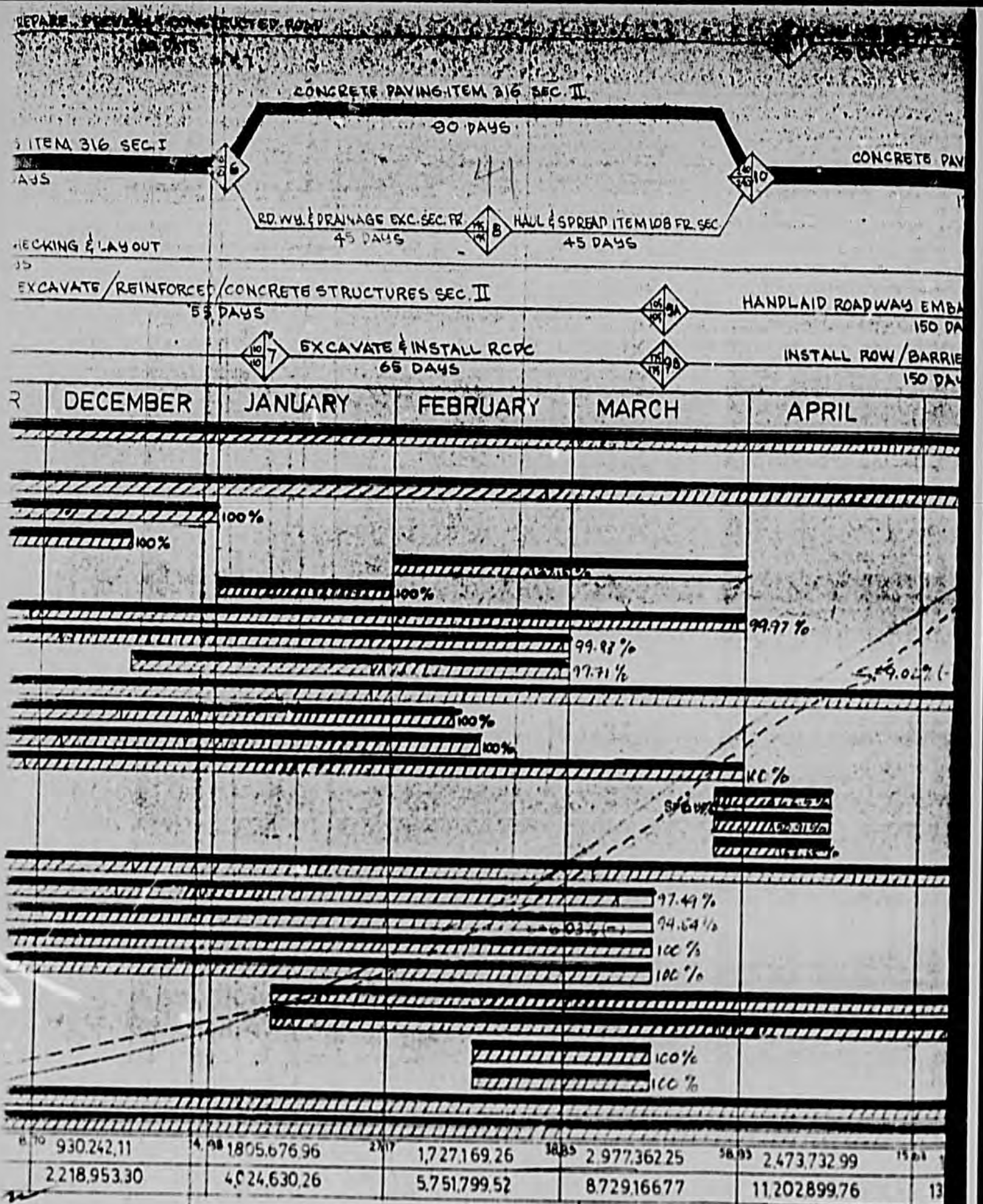
Date Start Act. AUGUST 1, 1981

UNIT COST	CONTRACT AMOUNT	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEM
L.S.	65,250.00					
202	83,232.00					
	5,390.00					
88.00	1,376.00					
30 66/m³	82,375.20					
A 70/m³	47,231.00					
1.00/m²	480,684.00					
11/m³	45,401.00					
8 40/m³	51,345.00					
320/m³	1,639,360.00					
150/m³	3,236.00					
350/m	82,665.00					
1,350/m	94,080.00					
3,200/m	25,600.00					
90 m³	10,994.50					
4,320/m	56,166.50					
8.00/m²	11,084,850.00					
174 60/m²	387,890.80					
190/m	198,600.00					
30/m	26,045.60					
65/m	5,448.50					
36 65/m²	300,045.00					
90/m²	159,840.00					
400.00/m	4,000.00					
130/m²	2,130.00					
	53,403.60					
640/m	15,628.80					
		32,588,10	319,955,88	358,469,09	577,698,12	930,242,1
		32,588,10	352,543,98	711,013,07	1,28[illegible],711,19	2,218,953

ING APPROVAL:
DRO DESEO
ANA REGALADO

ANGEL SALVADOR
PROJECT MANAGER, P.M.O

APPROVED:
VICENTE B. LOPEZ CES
PROJECT DIRECTOR


CONCRETE PAVING ITEM 316 SEC. II
90 DAYS
ITEM 316 SEC. I
CONCRETE PAV
RD. WY. & DRAINAGE EXC. SEC. FR.
45 DAYS
HAUL & SPREAD ITEM 108 FR. SEC.
45 DAYS
EXCAVATE / REINFORCED / CONCRETE STRUCTURES SEC. II
55 DAYS
HANDLAID ROADWAY EMBA
150 DA
EXCAVATE & INSTALL RCPC
65 DAYS
INSTALL ROW / BARRIE
150 DA
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
100%
100%
100%
99.97 %
99.98 %
97.71 %
100%
100%
100 %
97.49 %
94.64 %
100 %
100 %
100 %
100 %
930.242.11
1805.676.96
1,727.169.26
2.977.362.25
2.473.732.99
2.218.953.30
4.024.630.26
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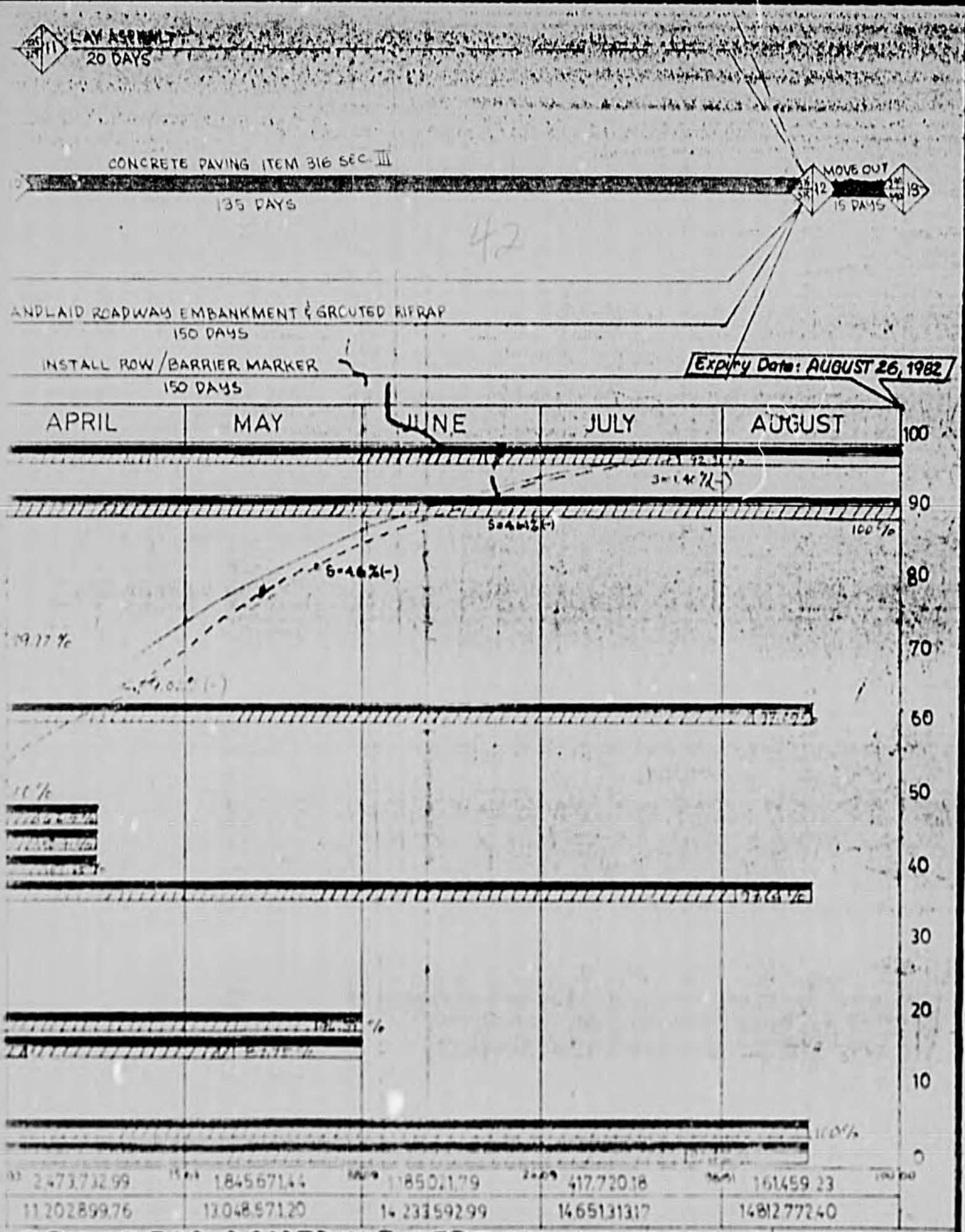
8.729.16677
11.202899.76
LOPEZ CESO II
DIRECTOR
REVISED PROGRESS
CALABANG



PROGRESS SCHEDULE. PERT CPM/CASH FLOW
CALABANGA-SIBOBO ROAD

REVISED

SUMMARY OF PROJECT ACCOMPLISHMENT
(As of July 20, 1982)

CALIPAN-BIBOTO ROW 5 OTTOM

	COST	RELATIVE WEIGHT	ACCOMPLISHMENT			PERCENT (%) WEIGHTED ACCOMPLISHMENT
			PROGRAM	ACTUAL	PERCENT	
GENERAL: Item 1.60.1 Item 1.60.3 Item 1.60.4	₱ 153,872.00	0.010	153,872.00	151,362.43	98.37	0.98
EARTHWORK: Item 103-2 Item 107 Item 105(1) Item 108 Item 105(2) Item 110 Item 105(3) Item 11[illegible] Item 106 Item 112-1	2,328,256.10	0.157	2,328,256.10	2,234,158.30	95.96	15.07
SURFACE COURSE PART 2: Item 308(1) Item 311(3) Item 311(1) Item 315	11,177,561.00	0.755	11,177,561.00	10,808,478.70	96.70	73.01
STRUCTURES: Item 405(1) Item 413-2 Item 406 Item 413-3	617,985.90	0.042	617,985.90	597,402.40	96.67	4.06
INCIDENTAL CONSTRUCTION: Item 500 Item 501 Item 509(3) Item 509(5) Item 510 S P L	535,047.40	0.036	535,047.40	503,038.40	94.02	3.38
T O T A L T O T A L	14,812,772.40	1.000	14,812,772.40	14,294,440.23	-	96.50

ITEMIZED COMPUTED ACCOMPLISHMENT
(As of July, 1982)

CALA-LUNA-SIPOCO ROAD

Sheet 1 of 2

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT (₱)	COMPUTED ACCOMPLISHMENT		
					Percentage based on bid quantities	QUANTITY/ VOLUME	VALUE (₱)
1.[illegible].1	[illegible] AND [illegible] AND LIQUIDATION [illegible]	13	Lump Sum	66,250.[illegible]	92.31	12	62,740.43
1.[illegible].3	[illegible] ACCOUNTANCY (MAINTENANCE OF [illegible] FILTER SECTION)	16	5,202 km/mo.	83,232.00	100.00	16	83,232.00
1.[illegible].4	[illegible] ACCOUNTANCY (DECOMMISSIONING OF [illegible] OF [illegible] LABORATORY [illegible] OFFICE)	1	5,390.00	5,390.00	100.00	L.S.	5,390.00
103 (2)	REMOVAL OF CULVERTS	2	688.00 ea.	1,376.00	100.00	2	1,376.00
105 (1)	REMOVAL AND DISPOSAL OF [illegible] (WASTE)	2,692 cu.m.	30.60/cu.m.	82,375.20	37.15	1,000	30,600.00
105 (2)	REMOVAL AND DISPOSAL OF [illegible] (ROCK)	730 cu.m.	64.70/cu.m.	47,321.00	100.00	730	47,231.00
105 (3)	REMOVAL AND DISPOSAL OF [illegible]	11,724 cu.m.	41.00/cu.m.	480,684.00	99.97	11,720	480,520.00
106	[illegible] OF STRUCTURES	574 cu.m.	79.10/cu.m.	45,403.40	99.83	573	45,324.30
107	[illegible]	1,050 cu.m.	48.90/cu.m.	51,345.00	99.71	1,047	51,198.30
108	[illegible] SUBBASE	17,300 cu.m.	83.20/cu.m.	1,439,360.00	97.09	16,796	1,397,427.20
110	[illegible] FILL	47 cu.m.	79.50/cu.m.	3,736.50	100.00	47	3,736.50
115	[illegible] OF PREVIOUSLY CONSTRUCTED ROAD	9.9 kms.	8,350.00/km.	82,665.00	100.00	9.9 kms.	82,665.00
115-1	[illegible] OF PREVIOUSLY CONSTRUCTED ROAD (FOR FEEDER ROAD)	12.8 kms.	7,350.00/km.	94,080.00	100.00	12.80 kms.	94,080.00
302(1)	[illegible] CUT-BACK ASPHALT GRADE [illegible] C-1 FOR [illegible] PRIME COAT	8 M.T.	3,200.00/M.T.	25,600.00	62.50	5 M.T.	16,000.00
311(1)	[illegible] OR [illegible] SURFACE TREATMENT (NOT ASPHALT TYPE)	55 cu. m.	199.90/cu.m.	10,944.50	50.91	28	5,597.20

CALIFORNIA-SIERRA ROAD

ITEMIZED COMPUTED ACCOMPLISHMENT
(As of July 20, 1982)

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT ($)	COMPUTED ACCOMPLISHMENT Percentage based on bid Quantities	Quantity/ Volume	Value
314 (3)	ASPHALT RUBBER PRESERVATIVE (SAMPE PS-100, [illegible] TYPE, [illegible] GRADE)	13 [illegible]	4,320.50 [illegible]	56,146.50	53.85	7	30,243.50
315	[illegible]	68,425 sq.m.	162.00/sq.m.	11,084,850.00	97.04	66,399	10,756,638.00
405-1	[illegible] (TYPE [illegible] & MATERIAL [illegible])	398 cu.m.	974.60/cu.m.	387,[illegible].00	97.49	388	378,144.80
426	[illegible] (TYPE [illegible] & MATERIAL [illegible])	26,430 kgm.	7.50/kgm.	198,[illegible].00	94.54	25,035	187,762.50
413-2	0.60 m. dia. R.C.P.	56 l.m.	465.10/l.m.	26,045.60	100.00	56	26,045.60
413-3	1.20 m. dia. R.C.P.	9 l.m.	605.50/l.m.	5,449.50	100.00	9	5,449.50
500	[illegible] (METHOD)	830 cu.m.	361.50/cu.m.	300,045.00	96.39	800	289,200.00
501	[illegible]	1,6[illegible] cu.m.	99.90/cu.m.	159,840.00	87.75	1,400	139,860.00
509-4	[illegible] CONCRETE PIPE	10 l.m.	400 l.m.	4,000.00	100.00	10 l.m.	4,000.00
509-5	[illegible]	30 cu.m.	71.00/cu.m.	2,130.00	100.00	30 cu.m.	2,130.00
510	[illegible]	764	69.90 ea.	53,403.60	100.00	764 ea.	53,403.60
GPL	CONCRETE [illegible]	132	118.40 ea.	15,628.80	92.42	122	14,444.80
	TOTAL			14,812,772.40			13,150,771.91

Republic of the Philippines
MINISTRY OF PUBLIC WORKS AND HIGHWAYS
M A N I L A

MONTHLY CONSTRUCTION REPORT

for

Sub-Project 3
Contract Package No. 2

SIBOBO-TINAMBAC SECTION
Secondary Road

HUBO-BALAO No. 303
Feeder Road

No. 40

(As of July 20, 1982)

TECHNIKS GROUP CORPORATION

PROGRESS REPORT NO. 40
July 1982

PROJECT: SIBOBO - TINAMBAC SECTION
Sub-Project 3, Contract Package No. 2

CONTRACTOR: GOLDROCK CONSTRUCTION & DEVELOPMENT CORPORATION

I. GENERAL:

This fourtieth monthly report covers the progress of construction for the month of July, 1982. The activities were as follows:

a) Earthwork Operation

b) Crushing of boulders for Item 200

c) Rirapping

d) Asphalting (widening along the existing concrete pavement)

e) Casting and installation of right-of-way markers

f) Placing of concrete barriers

II. GENERAL SITE CONDITION:

A. WEATHER

Fair weather condition prevailed during the month except for some rainy days during the latter part brought by typhoon "Ensang".

B. PEACE AND ORDER

No untoward incident happened within the vicinity of the project during the month.

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III. MOBILIZATION:

The Contractor had earlier withdrawn the three (3) units dump truck of private hauler due to breakdown of the bulldozer which is being utilized in quarrying of Item 100 and materials for the rock crusher.

Likewise, the vibratory compactor from the government was also returned.

IV. PROGRESS OF WORK:

A. GENERAL:

Item 1.60.1 - FORCE ACCOUNT WORK (MAINTENANCE OF UNCOMPLETED ROAD SECTIONS)

The Contractor had maintained the Secondary Road by improvement of side ditches to allow smooth flow of rain waters and filling of potholes.

B. SECONDARY ROAD

Item 100 - AGGREGATE SUBBASE

Placing of selected borrow materials from Sta. 23 + 100 to Sta. 23 + 450 is still in progress. At present, the said materials were stockpiled and ready for spreading.

Item 200 - GRAVEL BASE COURSE

Placing of base course materials from Sta. 20 + 125 to Sta. 20 + 400 was undertaken during the month. Likewise, the Contractor continue compaction of loose materials previously spread.

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Item 412 - STONE MASONRY

The Contractor continued asphalting (stone masonry as per original plan) on the widened sections along the existing concrete pavement and at present this item was substantially completed.

Item 500 - RIPRAP (LOOSE AND GROUTED)

Selected boulders were properly placed to downstream portions of some drainage structures to protect it from scouring.

Item 510 - RIGHT-OF-WAY MARKERS

Casting and installation of right-of-way monuments is still in progress. Accomplished to-date was twenty seven (27) pieces.

SPL - CONCRETE BARRIERS

Construction of concrete barriers along the existing pavement is still in progress. Before pouring of concrete, excavation was properly shaped and the foundation was firmly compacted.

C. FARM ROAD 303

Item 105 - ROADWAY AND DRAINAGE EXCAVATION

Widening of road sections were done during the early part of the month from Sta. 5 + 100 to Sta. 5 + 200. However, due to breakdown of the bulldozer, the widening of the road section from Sta. 3 + 200 to Sta. 3 + 400 has not started yet.

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Item 106 - AGGREGATE SUBBASE

During the early part of the month, the Contractor continue hauling, spreading and compacting of selected borrow materials however, due to breakdown of the bulldozer last July 2, 1982, no activity was undertaken on this road section.

V. MATERIALS TESTING AND QUALITY CONTROL:

During the month, the Contractor's laboratory staff under the supervision of the A & E Materials Engineer had performed the following laboratory and field tests:

105 - ROADWAY AND DRAINAGE EXCAVATION

Grading 1

Liquid and Plastic Limit Test 1

Laboratory Compaction Test 1

Field Density Test 2

107 - BORROW

Grading 1

Liquid and Plastic Limit Test 1

Laboratory Compaction Test 1

Field Density Test 2

106 - AGGREGATE SUBBASE

Grading 2

Liquid and Plastic Limit Test 2

Laboratory Compaction Test 1

Field Density Test 6

200 - GRAVEL BASE COURSE

Grading 3

Liquid and Plastic Limit Test . . . 3

Laboratory Compaction Test 1

Field Density Test 3

405 - CONCRETE CLASS "A"

Grading

Fine Aggregate 1

Coarse Aggregate 1

Unit Weight 1

VI. ACCOMPLISHMENT ON MAJOR ITEMS (Accumulated as of this period)

A. SECONDARY ROAD:

1. Roads

Subgrade

Station	Length	Remarks
14 + 325 - 17 + 450	3.125 kms.	Completed
17 + 450 - 17 + 550	0.100 km.	Partial
17 + 550 - 21 + 100	3.550 kms.	Completed
21 + 100 - 21 + 200	0.100 km.	Partial
21 + 200 - 23 + 650	2.450 kms.	Completed

Subbase

Station	Length	Remarks
14 + 325 - 17 + 450	3.125 kms.	Completed
17 + 450 - 17 + 550	0.100 km.	Partial
17 + 550 - 17 + 200	0.650 km.	Completed

Station	Length	Remarks
18 + 200 - 18 + 400	0.200 kms.	Partial
18 + 400 - 20 + 100	1.200 kms.	Completed

Base

Station	Length	Remarks
14 + 325 - 17 + 450	3.175 kms.	Completed
17 + 450 - 17 + 550	0.100 km.	None
17 + 550 - 23 + 100	5.550 kms.	Partial

2. Drainage Structures

Item 413-4 0.60 M. Dia. RCP . . . . . 226 L.M.

Station	Accomplishment	Remarks
11 + 649	7.00 L.M.	Completed (extension only)
12 + 521	3.00 L.M.	Completed (Extension only)
12 + 733	8.00 L.M.	Completed (extension only)
13 + 325	3.00 L.M.	Completed (extension only)
13 + 775	3.00 L.M.	Completed (extension only)
14 + 425	1.00 L.M.	Completed (extension only)
14 + 750	17.00 L.M.	Completed
14 + 950	17.00 L.M.	Completed
15 + 100	12.00 L.M.	Completed
15 + 262	9.00 L.M.	Completed (extension only)
16 + 077	16.00 L.M.	Completed
17 + 173	13.00 L.M.	Completed
18 + 550	17.00 L.M.	Completed
18 + 569	16.00 L.M.	Completed

Station	Accomplishment	Remarks
19 + 538	20.00 L.M.	Completed
20 + 775	12.00 L.M.	Completed
20 + 903	17.00 L.M.	Completed
21 + 280	16.00 L.M.	Completed
22 + 900	12.00 L.M.	Completed
23 + 375	16.00 L.M.	Completed

Item 413-3 0.90 M. Dia. RCP . . . . . 175 L.M.

Station	Accomplishment	Remarks
15 + 867	15.00 L.M.	Completed
16 + 624	17.00 L.M.	Completed
18 + 514	18.00 L.M.	Completed
18 + 708	18.00 L.M.	Completed
18 + 940	18.00 L.M.	Completed
20 + 475	28.00 L.M.	Completed (2 lines)
20 + 705	22.00 L.M.	Completed
22 + 558	26.00 L.M.	Completed (2 lines)
23 + 244	13.00 L.M.	Completed

Item 413-4 1.20 M. Dia. RCP . . . . . 217 L.M.

Station	Accomplishment	Remarks
12 + 672	5.00 L.M.	Completed (extension only)
13 + 614	12.00 L.M.	Completed (extension only)
17 + 127	23.00 L.M.	Completed
17 + 419	16.00 L.M.	Completed
21 + 491	41.00 L.M.	Completed (2 lines)

Item 413-4 1.20 M. Dia. RCP . . . . . 217 L.M.

Station	Accomplishment	Remarks
22 + 759	15.00 L.M.	Completed
23 + 480	16.00 L.M.	Completed
23 + 600	32.00 L.M.	Completed (2 lines)

B. FEEDER ROAD 303:

1. Road

Subgrade

Station	Length	Remarks
0 + 015 - 3 + 200	3.185 Kms.	Completed
3 + 200 - 3 + 400	0.200 Km.	Partial
3 + 400 - 5 + 100	0.700 Km.	Completed
5 + 100 - 5 + 200	0.100 Km.	Partial
5 + 200 - 6 + 775	1.575 Kms.	Completed

Subbase

Station	Length	Remarks
0 + 015 - 3 + 200	3.185 Kms.	Partial
3 + 200 - 3 + 400	0.200 Km.	None
3 + 400 - 5 + 100	1.700 Kms.	Partial
5 + 100 - 5 + 200	0.100 Km.	None
5 + 200 - 6 + 775	1.575 Kms.	Partial

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2. Drainage Structures

Item 413-2 0.60 M. Dia. RCP . . . . . 74 L.M.

Station	Accomplishment	Remarks
0 + 525	10.00 L.M.	Completed
0 + 775	12.00 L.M.	Completed
1 + 975	9.00 L.M.	Completed
2 + 350	10.00 L.M.	Completed
3 + 875	10.00 L.M.	Completed
4 + 120	11.00 L.M.	Completed
5 + 325	12.00 L.M.	Completed

Item 413-3 0.90 M. Dia. RCP . . . . . 21 L.M.

Station	Accomplishment	Remarks
1 + 150	11.00 L.M.	Completed
3 + 150	10.00 L.M.	Completed

Item 413-4 1.20 M. Dia. RCP . . . . . 24 L.M.

Station	Accomplishment	Remarks
1 + 412	24.00 L.M.	Completed (2 lines)

VII. COMMENTS AND RECOMMENDATIONS:

During the month, the accomplishment of the Contractor on earthwork, the major item in the project was not satisfactory due to successive breakdown of one (1) bulldozer and two (2) payloaders available thus quarrying of Item 100 and materials for the rock crusher was temporarily halted. Likewise, this was compounded with the removal of the vibratory compactor leased from the government and the three (3) units dump trucks of private hauler.

The Contractor was not able to cope-up with the lag in their accomplishment, since for two (2) weeks their activities were concentrated on asphalting of the widened sections (existing concrete pavement), riprapping and placing concrete barriers, considering that earthwork operation must be in full progress.

For this reason, the Contractor was advised to work overtime to meet the target date of completion.

VIII. VISITS AND MEETINGS:

A. VISITORS TO SITE:

NAME	DESIGNATION	DATE 1982	PURPOSE
Alejandro Desoo	Project Manager, TOC	June 24	Inspection
Silvino Casillan	Resident Engineer, PMO	June 24	Inspection
Terry Fernandez	C.E. USAID/Phil.	June 25	Inspection
Alejandro Desoo	Project Manager, TOC	June 26	Inspection
Angel Salvador	Project Manager, PMO	June 30	Inspection
Alejandro Desoo	Project Manager, TOC	June 30	Inspection
Juanito dela Torre	Consultant, BRSDP	July 6	Inspection
Manuel Diaz	BRSDP	July 6	Inspection
Alejandro Desoo	Project Manager, TOC	July 8	Inspection
Alejandro Desoo	Project Manager, TOC	July 12	Inspection
Alejandro Desoo	Project Manager, TOC	July 13	Inspection
Oscar Gurnillo	USAID	July 13	Inspection
Angel Salvador	Project Manager, PMO	July 14	Inspection
Juanito dela Torre	Consultant, BRSDP	July 16	Inspection
Manuel Diaz	BRSDP	July 16	Inspection
Oscar Gurnillo	USAID	July 20.	Inspection

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ANNEX "C-A"

PROJECT: SIBOBO - TINAMBAC SECTION
Sub-Project 3, Contract Package No. 2

WEATHER REPORT

Date - 1982		Weather Condition
June	21	Fair
	22	Fair
	23	Fair
	24	Fair
	25	Fair
	26	Fair
	27	Fair
	28	Fair
	29	Fair
	30	Fair
July	1	Fair
	2	Fair
	3	Fair
	4	Fair
	5	Fair
	6	Fair
	7	Fair
	8	Fair
	9	Fair
	10	A.M.: Fair; P.M.: Rainy
	11	Fair
	12	Fair
	13	Fair
	14	Rainy typhoon "Emang"
	15	Rainy typhoon "Emang"
	16	Rainy
	17	A.M.: Fair; P.M.: Rainy
	18	Rainy
	19	A.M.: Fair; P.M. Rainy
	20	Fair - Cloudy

ANNEX "C-B"

GOLDROCK CONSTRUCTION & DEVELOPMENT CORP.
Sibobo - Tinambac Section
Bacagay, Tinambac, Cam. Sur

LIST OF EQUIPMENT
(As of July 20, 1982)

QUANTITY	DESCRIPTION
1	Bulldozer
2	Road Grader
3	Payloader
3	Dump Truck (10 wheeler)
3	Dump Truck (6 wheeler)
2	Tandem Road Roller
1	Water Truck
1	Asphalt Kettle
2	One-Bagger Concrete Mixer
1	Rock Crusher
1	Compressor with Jack Hammer
2	Concrete Vibrator
2	2 " Ø Water Pump

Submitted by:

ANTONIO V. MORALES JR.
Project Engineer

TECHNIKO GROUP CORPORATION
Engineers - Consultant
Sibobo - Tinambac Section
Field Office - Sibobo, Cam. Sur

Subject: PROJECT CONSULTATION MEETING

Date: July 8, 1982 Time: 9:00 - 10:00 A.M.

Attendees: Danilo A. Cosinas - Actg. Resident Engineer, TGC
Ruben A. Pagkatipunan - Materials Engineer, TGC
Isagani A. Protacio Jr. - Field Utility Engineer, TGC
Criselda E. Severo - Field Utility Engineer, TGC
Antonio V. Morales - Project Engineer, GCDC
Salve U Tarrobago - Materials Engineer, GCDC

Minutes:

1. Due to breakdown of the bulldozer, quarrying of item 103 and materials for the rock crusher was temporarily halted, The Contractor was advised to mobilize additional bulldozer and to hasten the repair of the breakdown equipment.

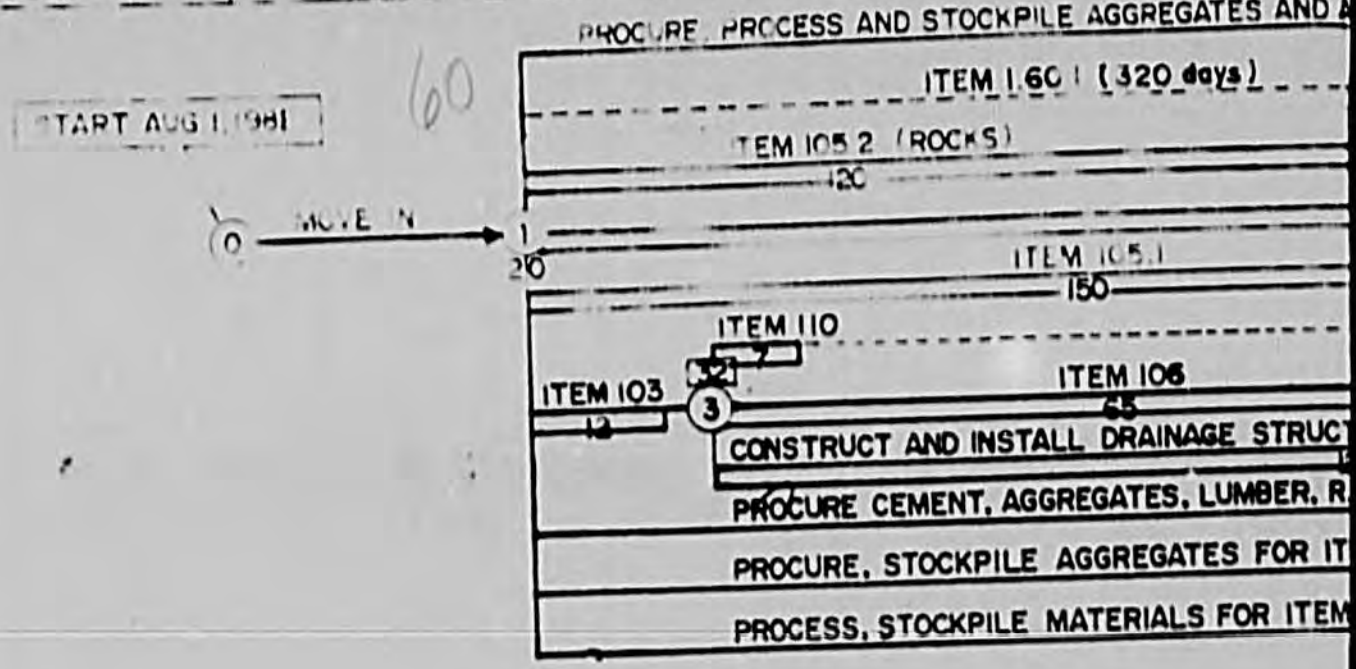
2. As the target completion date is fast approaching, the Contractor was advised to work overtime including Sundays and holidays to cope-up with the lag in their accomplishment.

Attested by:

ANTONIO V. MORALES JR.
Project Engineer

DANILO A. COSINAS
Actg. Resident Engineer

CASH FLOW	0	30	60
MONTHLY	131,532.40	480,121.95	621,99
CUMULATIVE	131,532.40	614,654.35	1,236,65



ITEM NO	DESCRIPTION	BID CONTRACT QUANTITY	ITEM % WT.	PROG-RAMMED	ACTUAL	AUG. 30 31
1.60.1	FORCE ACCOUNT WORK (MAINT'CE OF UNC. ROAD SECTIONS)	28 km	1.44	P	A	
1.60.2	REPAIR & MAINT. OFF. LAB FOR ENGINEER	DELETED				
1.60.3	PROVIDE ONE UTILITY VEHICLE FOR ENGR	L.S.	.66	P	A	
1.60.4	OFFICE EQUIPMENT FOR ENGR.	L.S.	.09	P	A	
103-2	REMOVAL OF CULVERTS (RCPC)	14 each	.08	P	A	
105-1	ROADWAY & DRAINAGE EXCAVATION (WASTE)	26,038 cu.m.	5.71	P	A	
105-2	ROADWAY & DRAINAGE EXCAVATION (SOLID ROCK)	2,000 cu.m.	2.17	P	A	
105-3	ROADWAY & DRAINAGE EXCAVATION	44,933 cu.m.	16.26	P	A	
106	EXCAVATION FOR STRUCTURES	2,650 cu.m.	1.11	P	A	
107	BORROW	10,458 cu.m.	5.24	P	A	
108	AGGREGATE SUB-BASE	33,200 cu.m.	24.65	P	A	
110	FOUNDATION FILL	160 cu.m.	.12	P	A	
111	OVERHAUL (300 M FREE HAUL)	13,443 sta.m.	.08	P	A	
118	REPREPARATION OF PREVIOUSLY CONSTRUCTED ROADS	6 km.	.47	P	A	
200	GRAVEL BASE COURSE GRADING "B"	12,600 cu.m.	12.63	P	A	
302 (1)	MEDIUM CURING CUTBACK ASPHALT GRADE MC-1 FOR BITUMINOUS PRIME COAT	423 M.T.	5.27	P	A	
314(1)	AGG. FOR BITUMINOUS SURF. TREATMENT (HOT ASPH. TYPE)	890 cu.m.	1.83	P	A	
314(3)	ASPHALT CEMENT, GRADE 85-100 FOR BITUMINOUS SURF TREATMENT (HOT ASPHALT TYPE)	193 M.T.	8.60	P	A	
405-1	CONCRETE CLASS "A" (FOR DRAINAGE & MISC. STRUCTURES)	305 cu.m.	2.57	P	A	
406	REINFORCING STEEL (DRAINAGE & MISC. STRUCTURES)	8,518 kgs.	.56	P	A	
412	STONE MASONRY	1,460 cu.m.	4.92	P	A	
413-2	0.60 M. DIA. RCP	266 L.M.	.87	P	A	
413-3	0.90 M. DIA. RCP	132 L.M.	.72	P	A	
413-4	1.20 M. DIA. RCP	161 L.M.	1.65	P	A	
500-1	RIPRAP & RIPRAP	200 cu.m.	.51	P	A	
500-2	RIPRAP & GROUTED	140 cu.m.	.18	P	A	
510	ROW MARKERS	393 each	.28	P	A	
SPL	CONCRETE BARRIER	428 each	1.37	P	A	
		TOTAL				

6,1.0	1,65,170.30	1,586,771.70	1,591,57
235,5	5,4 ,049.20	7,98	5,580,16

TOATS AND ASPHALT FOR ITEM 314

ITEM 105.3

ITEM 111

5

97

4

ITEM 106

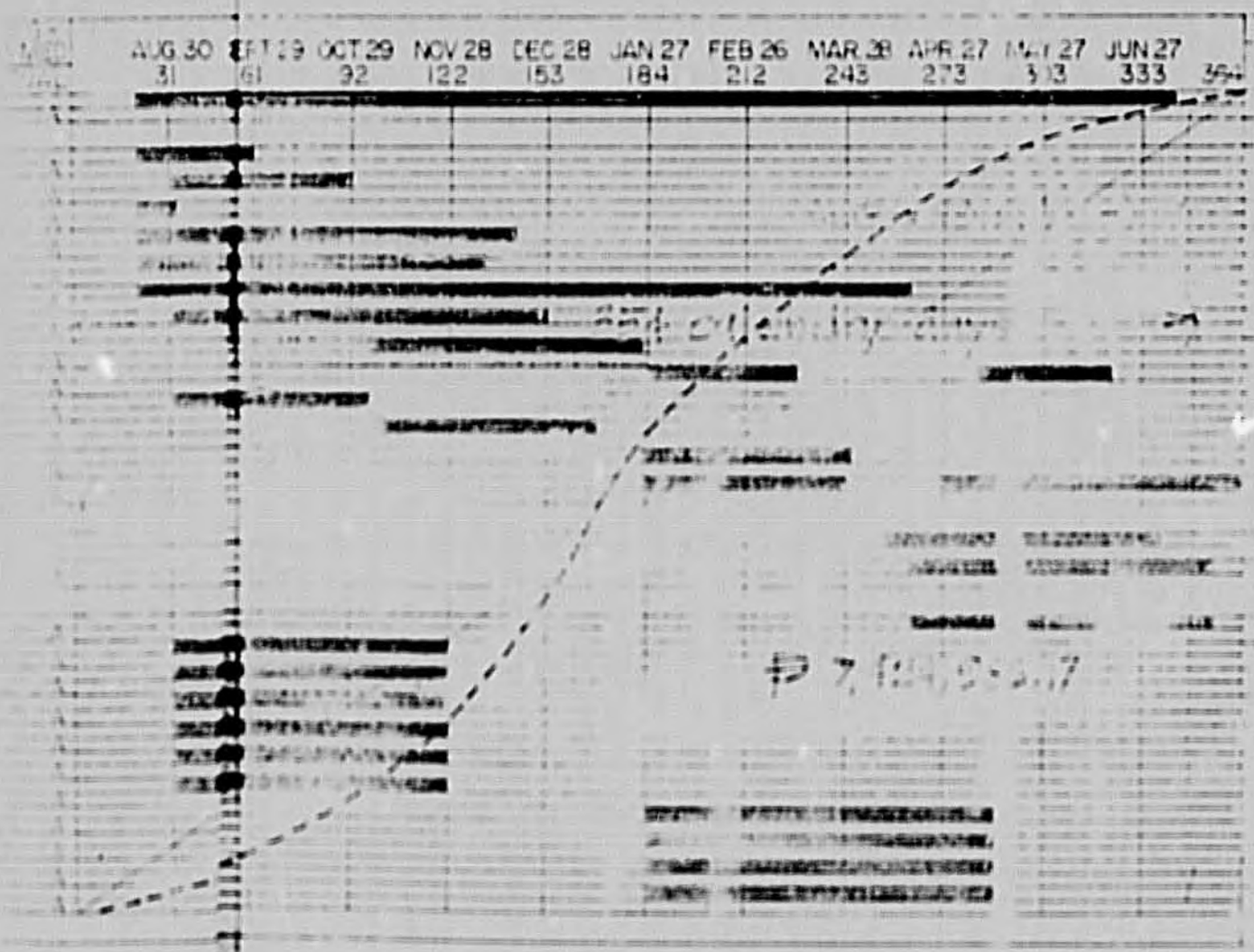
ITEM 107

DRAINAGE STRUCTURES (ITEM 405, 406, 413.2, 413.3 & 413.4)

GATES, LUMBER, PIPE FOR DRAINAGE STRUCTURES

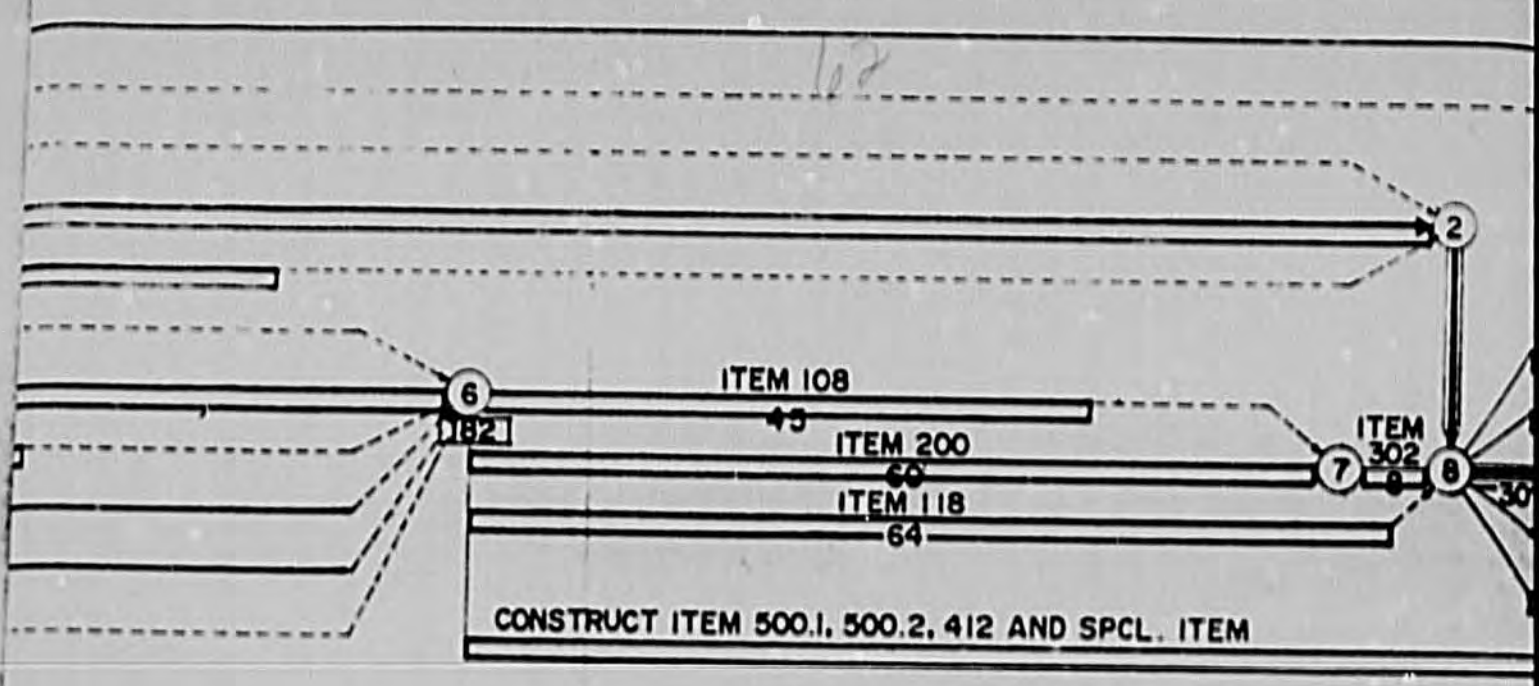
AGGREGATES FOR ITEM 200 AND VARIOUS TESTS

TRIALS FOR ITEM 108 AND VARIOUS



FLOW 2/15/81	SUBMITTED BY GOLDROCK CONST. & DEV. CORP. MANUEL TANGHAL PRESIDENT	RECOMMENDING APPROVAL ALEJANDRO DESEO PROJ. MANAGER A & E

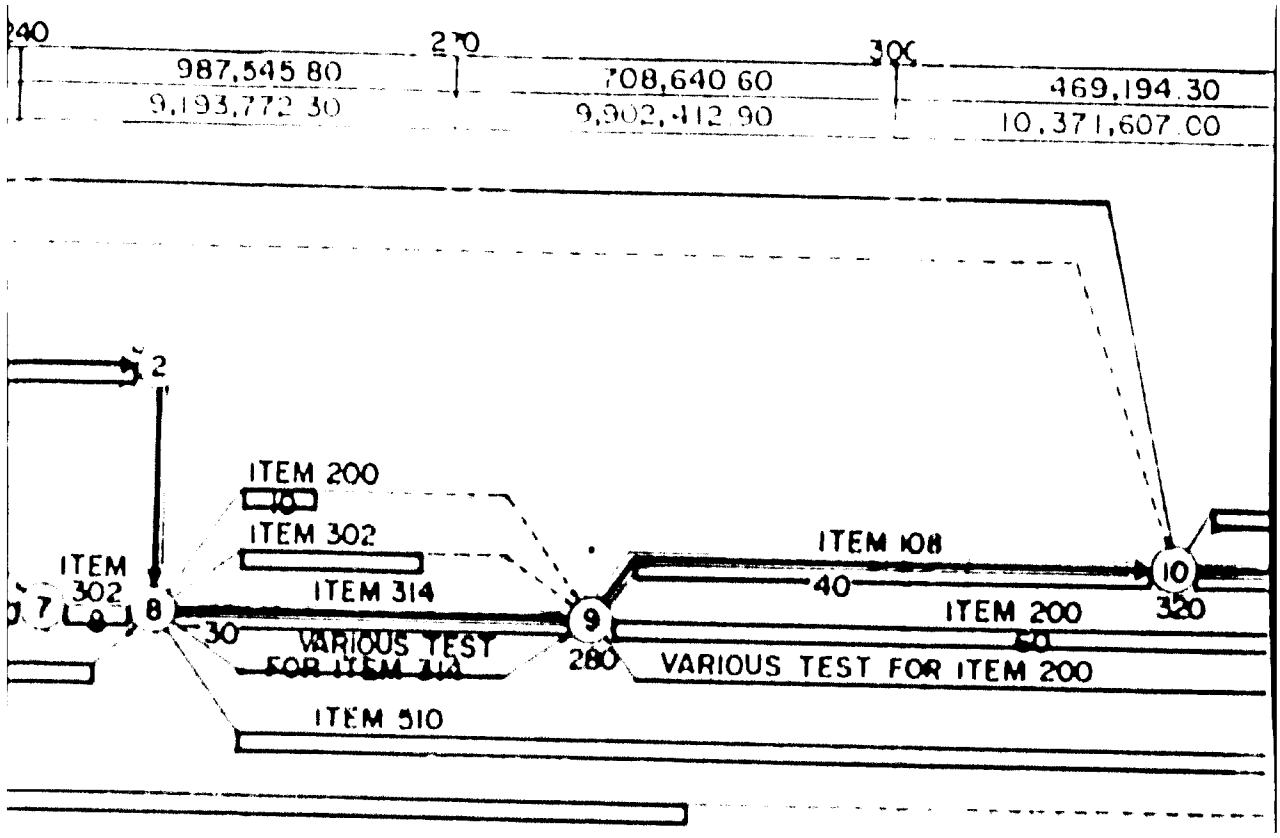
180	210	240	
1,591,572.76	1,415,542.50	1,210,515.80	987,5
5,580,168.20	6,995,710.70	8,206,226.50	9,193,7



WT % ACCOMPLISHED PRE-VIOUS	PRESENT	TOTAL TO DATE	REMARKS
64.29	14.28	78.57	
DELETED			
100.00	0	100.00	
-	-	-	
[illegible]	4.29	100.00	
[illegible]	-	100.00	
[illegible]	0	85.65	
[illegible]	1.85	[illegible]	
34.84	4.5	39.49	
[illegible]	6.60	92.76	
75.00	2.11	77.11	
[illegible]	0	30.02	
[illegible]	0	100.00	
0	23.39	23.42	
61.00	6.04	67.04	
-	-	-	
-	-	-	
-	-	-	
81.07	11.47	92.44	
29.92	5.87	35.79	
65.07	0	65.07	
100.00	0	100.00	
100.00	0	100.00	
100.00	0	100.00	
70.00	0	70.00	
4.20	0	14.20	
[illegible]	[illegible]	[illegible]	
[illegible]	6.31	91.12	
67.61	3.08	70.69	

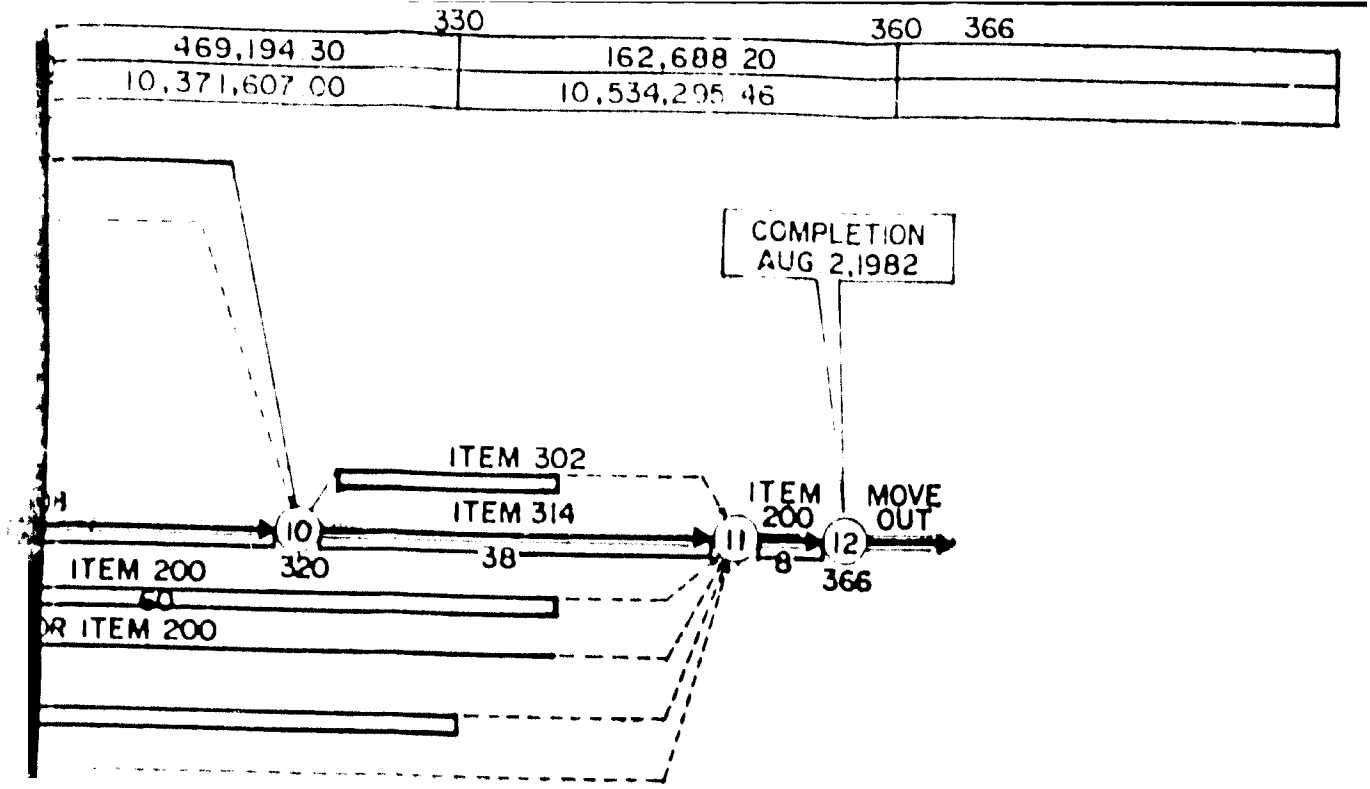
$10,534,295.46
10,000,000.00
9,000,000.00
8,000,000.00
7,000,000.00
6,000,000.00
5,000,000.00
4,000,000.00
3,000,000.00
2,000,000.00
1,000,000.00

APPROVED:



LEGEND :

- ACTIVITY
- FLOW
- DUMMY
- CRITICAL PATH
- ACTUAL ACCOMPLISHE



ACTIVITY

FLOW

DUMMY

CRITICAL PATH

ACTUAL ACCOMPLISHED

SUMMARY OF PROJECT ACCOMPLISHMENT
(As of July 20, 1982)

Libobo - Tinambac Section

PROJECT COMPONENT	COST	RELATIVE WEIGHT	ACCOMPLISHMENT			PERCENT (%) WEIGHTED ACCOMPLISHMENT
			PROGRAM	ACTUAL	PERCENT	
GENERAL: Item 1.60.1 Item 1.60.3 Item 1.60.3	200,006.80	0.022	200,006.80	191,006.80	95.50	2.10
EARTHWORK: Item 101-2 Item 100 Item 105-1 Item 110 Item 105-2 Item 111 Item 105-3 Item 116 Item 106 Item 200 Item 107	7,509,990.18	0.820	7,509,990.18	6,269,823.25	83.49	68.46
SURFACE COURSE: Item 302 Item 314(1) Item 314(3)		D	E L E	T E D		
STRUCTURES: Item 405 Item 413-2 Item 406 Item 413-3 Item 412 Item 413-4	1,200,067.36	0.131	1,200,067.36	1,134,273.60	94.51	12.38
INCIDENTAL CONSTRUCTION: Item 513-1 Item 510 Item 500-2 SPL	247,913.80	0.027	247,913.80	199,354.00	80.41	2.17
T O T A L	9,157,978.14	1.000	9,157,978.14	7,794,457.65	-	85.11

ITEMIZED COMPUTED ACCOMPLISHMENT
(As of July 20, 1982)

Sibobo-Tinambac Section

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT: Percentage Based on Bid Quantities	COMPUTED ACCOMPLISHMENT: Quantity/ Volume	COMPUTED ACCOMPLISHMENT: Value
1.00.1	FUNDS ACCOUNT NOTE (MAINTENANCE OF COMPLETED ROAD SECTIONS)	28 KM.MO.	5,393.10	151,006.80	100.00	28 KM.MO.	151,006.80
1.00.3	PROVIDE ONE (1) UNIT UTILITY VEHICLE FOR ENGINEER	1 L.S.	LUMP SUM	40,000.00	100.00	1 L.S.	40,000.00
1.00.4	OFFICE EQUIPMENT FOR ENGINEER	1 L.S.	LUMP SUM	9,000.00	–	–	–
103-2	REMOVAL OF CULVERTS	14 EA.	572.75	8,018.50	100.00	14 EA.	8,018.50
105-1	ROADWAY AND TRIMMING EXCAVATION (SOIL)	20,838 CU.M.	30.00	625,140.00	96.16	20,038 CU.M.	601,140.00
105-2	ROADWAY AND TRIMMING EXCAVATION (MIXED ROCK)	2,000 CU.M.	114.24	228,480.00	95.50	1,910 CU.M.	218,194.40
105-3	ROADWAY AND TRIMMING EXCAVATION	47,135 CU.M.	38.11	1,807,747.85	98.13	46,550 CU.M.	1,774,020.50
106	EXCAVATION FOR STRUCTURE	3,000 CU.M.	42.15	130,665.00	96.77	3,000 CU.M.	126,450.00
107	DRAINAGE	11,717 CU.M.	52.80	618,657.00	85.35	10,000 CU.M.	528,000.00
108	ROADBED EMBANKMENT	34,405 CU.M.	78.20	2,690,471.00	74.41	25,600 CU.M.	2,001,920.00
110	FOUNDATION FILL	160 CU.M.	78.76	12,601.60	96.88	155 CU.M.	12,183.00
111	OVERHAUL (300 M. FREE HAUL)	13,443 STA.M.	0.65	8,737.95	100.00	13,443 STA.M.	8,737.95
116	REHABILITATION OF PREVIOUSLY CONSTRUCTED ROAD	6 KM.	8,151.76	48,910.68	83.33	5 KM.	40,758.90
200	GRAVEL BASE COURSE (GRADING-B1)	12,600 CU.M.	105.60	1,330,560.00	71.43	9,000 CU.M.	950,758.90
302	MEDIUM CURING CUTBACK ASPHALT, GRADE MC-1 FOR BIT. PRIME COAT			DELETED	DELETED		
314(1)	AGGREGATE FOR BST (HOT ASPHALT TYPE)			DELETED	DELETED		
314(3)	ASPHALT CEMENT, GRADE 85-100 FOR BST (HOT ASPHALT TYPE)			DELETED	DELETED		

ITEMIZED COMPUTED ACCOMPLISHMENT
(As of July 20, 1982)

Sibobo-Tinambac Section

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	Percentage Based on Bid Quantities	COMPUTED ACCOMPLISHMENT Quantity/ Volume	Value
405	CONCRETE CLASS "A"	305 CU.M.	888.74	271,065.74	96.72	295 CU.M.	262,178.30
406	REINFORCING STEEL	8,518 KG.	7.02	59,796.36	99.79	8,500 KG.	59,670.00
412	STONE MASONRY	1,460 CU.M.	355.10	518,446.00	89.04	1,300 CU.M.	461,630.00
413-2	0.60 M. DIA. R.C.P.	288 L.M.	355.00	102,240.00	100.00	288 L.M.	102,240.00
413-3	0.90 M. DIA. R.C.P.	132 L.M.	570.45	75,299.40	100.00	132 L.M.	75,299.40
413-4	1.20 M. DIA. R.C.P.	161 L.M.	1,075.90	173,219.90	100.00	161 L.M.	173,219.90
500-1	RIPRAP GROUTED	200 CU.M.	267.50	53,500.00	70.00	140 CU.M.	37,450.00
500-2	RIPRAP GROUTED (LOOSE)	140 CU.M.	138.03	19,324.00	14.29	20 CU.M.	2,766.00
510	RIGHT-OF-WAY MARKERS	390 EA.	75.60	29,484.00	89.74	350 EA.	26,460.00
581	CONCRETE BARRIERS	428 EA.	340.20	145,605.60	91.12	390 EA.	132,678.00
	TOTAL			2,457,978.14			2,794,457.65
	Slippage	25.70 %	(-)				

NOTE: The quantities were revised due to Change Order No. 1

Republic of the Philippines
MINISTRY OF PUBLIC WORKS AND HIGHWAYS
M A N I L A

MONTHLY CONSTRUCTION REPORT

for

Sub-Project 2

DANAO-PASACAO ROAD
Secondary Road

ITOLAN-BAHAY-COCO No. 201
PASACAO-CARANAN-MACAD No. 202
PASACAO PORT ROAD No. 203

No. 39

(As of July 20, 1982)

TECHNIKS GROUP CORPORATION

68

PROGRESS REPORT NO. 39
July, 1982

Project : DAMAO-PALACAO ROAD
(Sub-Project No. 2)

Contractor: MAROSA ENTERPRISES

I. INTRODUCTION

This report covers the activities of the Contractor for the month of July, 1982 as follows:

1. Survey Works
2. Stockpiling of aggregates for Item 316
3. Base preparation and form setting
4. Concrete Paving
5. Riprapping

II. GENERAL SITE CONDITION

A. WEATHER

The weather condition was generally fair except for few days of rain brought by typhoon "Emang".

B. PEACE AND ORDER

No untoward incident happened within the project during the period.

III. MOBILIZATION

The List of Equipment available at jobsite is shown in Annex "D-A". The percent availability of equipment is 75% of the requirement.

IV. PROGRESS OF WORK

A. SECONDARY ROAD

1) SURVEY WORKS

a) Establishing and checking lines and grades prior to laying of forms.

b) Plotting of cross-section is still in progress.

2) EARTHWORKS

Item 108 - AGGREGATE SUBBASE

Subbase materials were placed and compacted for shoulder from Sta. 0 + 050 to Sta. 7 + 100 with a total of 1,800 cu.m.

Item 118 - REPREPARATION OF PREVIOUSLY CONSTRUCTED ROAD

Before installation of wooden forms for P.C. Concrete Pavement (Item 316), the roadway was reshaped to its required grades including the side ditches and good granular materials were placed and compacted on lower sections.

3) PAVEMENT

Item 316 - PORTLAND CEMENT CONCRETE PAVEMENT

During the month, the Contractor had accomplished about 5,270.50 sq. m. bringing a total accomplishment of 62,751.00 sq. m. (with widening).

The following sections were completed during this period:

Stations	Remarks	Estimated Quantity (with widening)
0 + 003.35 - 0 + 052.85	Right lane	186.589sq. m.
1 + 189.03 - 1 + 284.94	Left lane	397.53
1 + 627.60 - 1 + 709.55	-do-	249.94
1 + 306.61 - 1 + 424.86	Right lane	308.44
1 + 530.16 - 1 + 851.00	-do-	1,180.47
4 + 468.80 - 4 + 748.00	-do-	851.56
4 + 835.25 - 5 + 071.50	-do-	720.56

5 + 731.57 - 5 + 808.12	Left lane	233.47
8 + 538.75 - 8 + 883.64	Right lane	1,051.91
	Total =	5,270.50 sq.m.

4) INCIDENTAL CONSTRUCTION

Item 500 - GROUTED RIPRAP

A total of about 80 cu.m. of grouted riprap had been partially completed at Sta. 4 + 734 - 4 + 793.

B. FEEDER ROAD 202 : (Pasacao-Caranan-Macad)

1) SURVEY WORK

a) Alignment, profile leveling and cross-sectioning is in progress.

b) Plotting of cross-section and volume computation is in progress.

V. MATERIALS TESTING AND QUALITY CONTROL

During the month the Contractor's Laboratory Staff under the supervision of the A & E Materials Engineer performed the following laboratory and field tests:

Item 107: BORROW

a) Grading 1

b) Plasticity Test 1

c) Compaction 1

Item 108: AGGREGATE SURFACE

a) Grading 6

b) Plasticity Test 6

c) Compaction 1

Item 316: PORTLAND CEMENT CONCRETE PAVEMENT

Fine Aggregates:

a) Grading 10

b) Specific Gravity 1

c) Absorption 1

d) Unit Weight 1

Coarse Aggregates:

a) Grading 10

b) Specific Gravity 1

c) Absorption 1

d) Unit Weight 1

Beam Sample Taken . . . . . 16 sets

Beam Sample Tested . . . . . 12 beams

Sample of Cement sent to Manila for Quality Test 5

Item 405: CONCRETE CLASS "A"

Fine Aggregates:

a) Grading 1

b) Specific Gravity 1

c) Absorption 1

d) Unit Weight 1

Coarse Aggregates:

a) Grading 1

b) Specific Gravity & Absorption . . 1

c) Unit Weight 1

Item 500: REPAIR AND GROUTED REPAIR

Inspection Report 1

VI. ACCOMPLISHMENT ON MAJOR ITEMS (Accumulated to-date)

A. Secondary Road

Subgrade . . . . . 8.883 kms.

Sta. 0 + 003.35 to Sta. 8 + 883.64 - completed

Subbase . . . . . 8.883 kms.

Sta. 0 + 003.35 to Sta. 8 + 883.64 - completed

Portland Cement Concrete Pavement . . . . . 52,751.00 sq.m.

STATIONS	REMARKS
0 + 003.35 - 1 + 284.94 (left lane)	Completed
0 + 003.35 - 1 + 284.94 (right lane)	-do-
1 + 306.61 - 1 + 530.16 (right lane)	-do-
1 + 627.60 - 3 + 185.65 (left lane)	-do-
1 + 530.16 - 3 + 185.65 (right lane)	-do-
3 + 205.80 - 4 + 675.65 (left lane)	-do-
3 + 205.80 - 4 + 748.60 (right lane)	-do-
4 + 830.45 - 5 + 808.15 (left lane)	-do-
4 + 835.25 - 5 + 829.05 (right lane)	-do-
5 + 856.67 - 8 + 883.64 (right lane)	-do-
5 + 856.67 - 8 + 537.61 (left lane)	-do-

Drainage Structures

Item No.	Description	Bid Quantity	Accomplishment Quantity	Percent	Remarks
413 - 2	0.60 m. dia. RCP	192 l.m.	192 l.m.	100%	Completed
413 - 3	0.90 m. dia. RCP	199 l.m.	183 l.m.	91.96	-do-
413 - 4	1.50 m. dia. RCP	159 l.m.	159 l.m.	100	-do-

B. FEEDER ROAD 201: Itolan-Kahay-Coco)

1. ROAD

Subgrade . . . . . 4.5 kms.

Sta. 0 + 021.21 - Sta. 4 + 523.41 - completed

Subbase . . . . . 4.5 kms.

Sta. 0 + 021.21 - Sta. 4 + 523.41 - completed

2. DRAINAGE STRUCTURES

Item No.	Description	Bid Quantity	Accomplishment Quantity	Percent	Remarks
413 - 2	0.60 m. dia. RCP	44 l.m.	44 l.m.	100%	Completed
413 - 3	0.90 m. dia. RCP	75 l.m.	75 l.m.	100	-do-
413 - 4	1.20 m. dia. RCP	48 l.m.	48 l.m.	100	-do-

C. FEEDER ROAD [illegible] (Pamacao-Caranan-Macad)

1. ROAD

Subgrade . . . . . 7.73kms.

Sta. 0 + 015.87 - Sta. 8 + 687.37 - completed

Subbase . . . . . 5.51 kms.

Sta. 0 + 015.86 - Sta. 5 + 562.27 - completed

Sta. 5 + 661.27 - Sta. 8 + 687.37 - partial

2. BRIDGE : Timber Trestle #1, #2, #3, #4 - completed

3. DRAINAGE STRUCTURES

Item No.	Description	Bid Quantity	Accomplishment Quantity	Percent	Remarks
413-2	0.60 m. dia. RCP	220 l.m.	220 l.m.	100	Completed
413-3	0.90 m. dia. RCP	90 l.m.	90 l.m.	90	-do-
413-4	1.20 m. dia. RCP	73 l.m.	73 l.m.	100	-do-

D. FEEDER ROAD [illegible] (Tubasan Port Road)

1. ROAD

Subgrade . . . . . 1.78 kms.

Sta. 0 + 000 - Sta. 1 + 781.63 - completed

Subbase . . . . . 1.78 kms.

Sta. 0 + 000 - Sta. 1 + 781.63 - completed

2. DRAINAGE STRUCTURES

Item No.	Description	Bid Quantity	Accomplishment Quantity	Percent	Remarks
413-3	0.90 m. dia. RCP	81 l.m.	81 l.m.	100%	Completed

VII. COMMENTS AND RECOMMENDATIONS

During the period the accomplishment of the Contractor on P.C. Concrete Pavement, the major item of work on the project, was quite satisfactory. The projected requirement for the month of July was met.

However, in some instances, pouring was delayed due to occassional heavy rains. The Contractor was advised to work overtime on concrete paving operation whenever good weather condition prevails and speed up the shoulder-ring work on Secondary Road and earthwork operation along Feeder Road 202.

VIII. VISITS AND MEETINGS

A. Visitors to site

NAME	DESIGNATION	DATE	PURPOSE
Mr. J. de la Torre	Sr. Consultant, [illegible]	6-21-82	Inspection
Mr. S. B. Castillan	Resident Engr., PTO	6-22-82	-do-
Mr. A. Deseo	Project Manager, [illegible]	6-23-82	-do-
Mr. A. Deseo	-do-	6-26-82	-do-
Mr. S. B. Castillan	Resident Engr., PTO	6-27-82	-do-
Mr. A. Salvador	Project Manager, PTO	6-30-82	-do-
Mr. S. B. Castillan	Resident Engr., PTO	6-30-82	-do-
Mr. A. Deseo	Project Manager, PTO	6-30-82	-do-
Mr. C. Serrillo	Sr. Consultant, [illegible]	7-5-82	-do-
Mr. A. Deseo	Project Manager, [illegible]	7-6-82	-do-
Mr. S. Castillan	Resident Engineer, PTO	7-6-82	-do-
Mr. J. de la Torre	Sr. Consultant, [illegible]	7-[illegible]-82	-do-
Mr. J. de la Torre	-do-	7-14-82	-do-
Mr. S. Castillan	Resident Engr., PTO	7-20-82	-do-

ANNEX "D-A"

Project : DAVAO-PALACAO ROAD
(Sub-Project No. 2)

WEATHER REPORT

Date - 1962		Weather Condition
June	[illegible]	Clear
	22	Clear
	23	Clear
	24	Fair
	25	Clear
	26	Fair
	27	Fair
	28	Fair
	29	Fair
	30	Fair
July	[illegible]	Fair to clear
	[illegible]	Clear
	[illegible]	Clear
	[illegible]	Fair
	[illegible]	Fair
	[illegible]	Cloudy
	[illegible]	Fair
	[illegible]	Fair
	[illegible]	Clear/rainy in the afternoon
	1[illegible]	Cloudy with intermittent rainshowers
	1[illegible]	Fair, rainy in the afternoon
	1[illegible]	Fair
	1[illegible]	Fair
	1[illegible]	Heavy rain, typhoon "Dsang"
	1[illegible]	Typhoon "Dsang"
	1[illegible]	Fair
	1[illegible]	Fair
	1[illegible]	Fair, rainy in the afternoon
	29	Clear
	30	Clear

M A H O G A E N T E R P R I S E S
Field Office - Quicon, Pasacao, Camarines Sur

ANNEX "D-3"

DAÑAO-PASACAO ROAD

LIST OF EQUIPMENTS
As of July 20, 1982

Quantity	Description	Type
two (2) units	Payloader	TCM, Michigan
two (2) units	Road Grader	Komatsu
one (1) unit	Crusher	Cedar Rapids
two (2) units	Transit mixer	Isuzu
one (1) unit	Water Truck	Isuzu
one (1) unit	Road roller	Briggs & Stratton
one (1) unit	Dump Truck	Isuzu
one (1) unit	Batching Plant	
one (1) unit	Jack hamer	

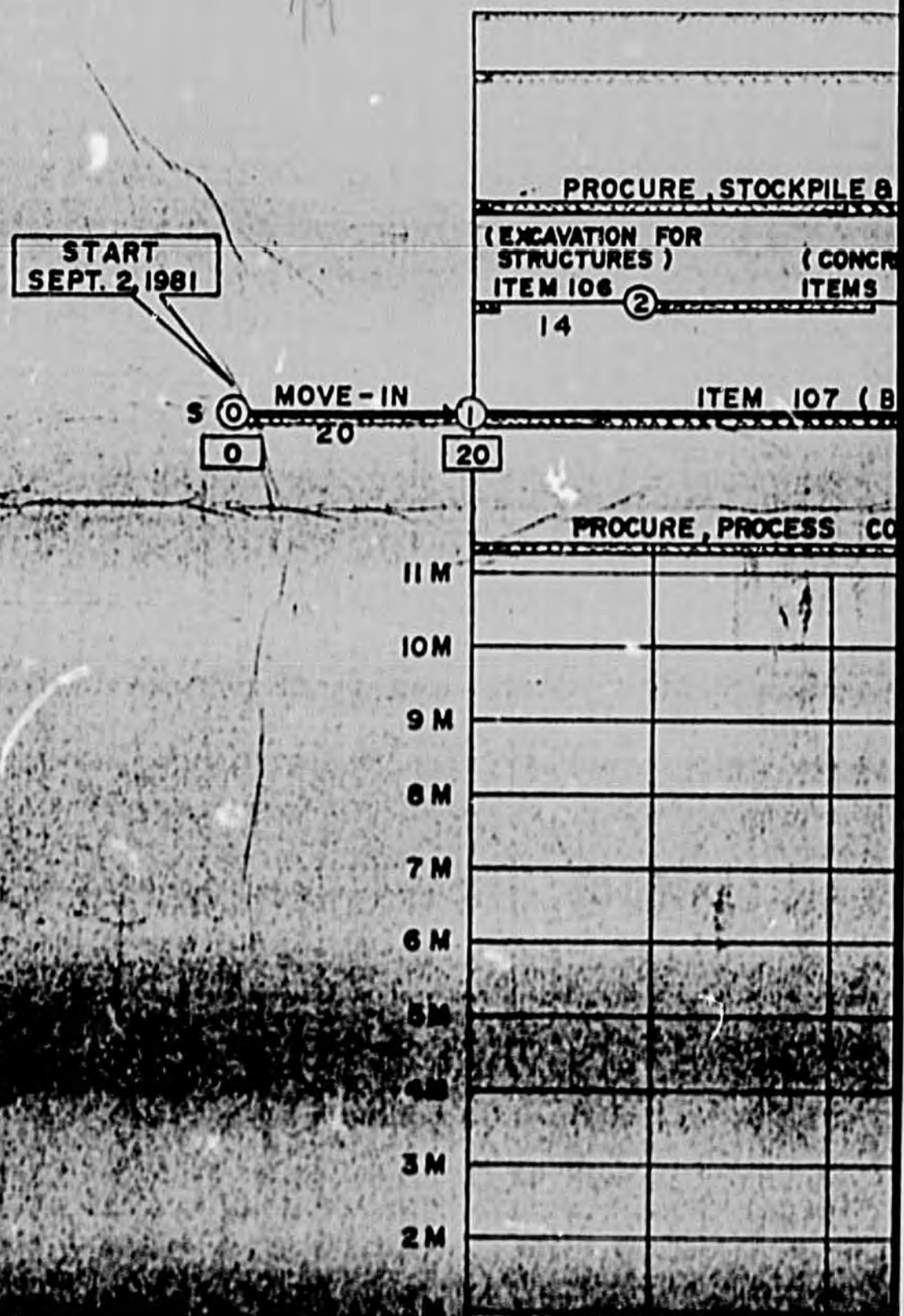
Percentage of equipment available = 75 %

Submitted by:

(Sgd.) ALBERT P. PANGANIBAN
Project Engineer

SEPT. 2, 1981

CASH FLOW	0	SEPT. 30 30
MONTHLY	41,645.20	84,179.20
CUMMULATIVE	41,645.20	125,824.40



OCT. 30	NOV. 29	DEC. 29	JAN
60	90	120	15

79.20	165,856.70	333,257.20	750,121.80
24.40	291,681.10	624,938.40	1,375,060.20

80

CKPILE & PROCESS MAT'LS FOR ITEMS 107 & 108

(CONCRETE CLASS "A")
ITEMS 405 & 405-1
56

ITEM 316 (PCC PAVE
45

107 (BORROW)
70

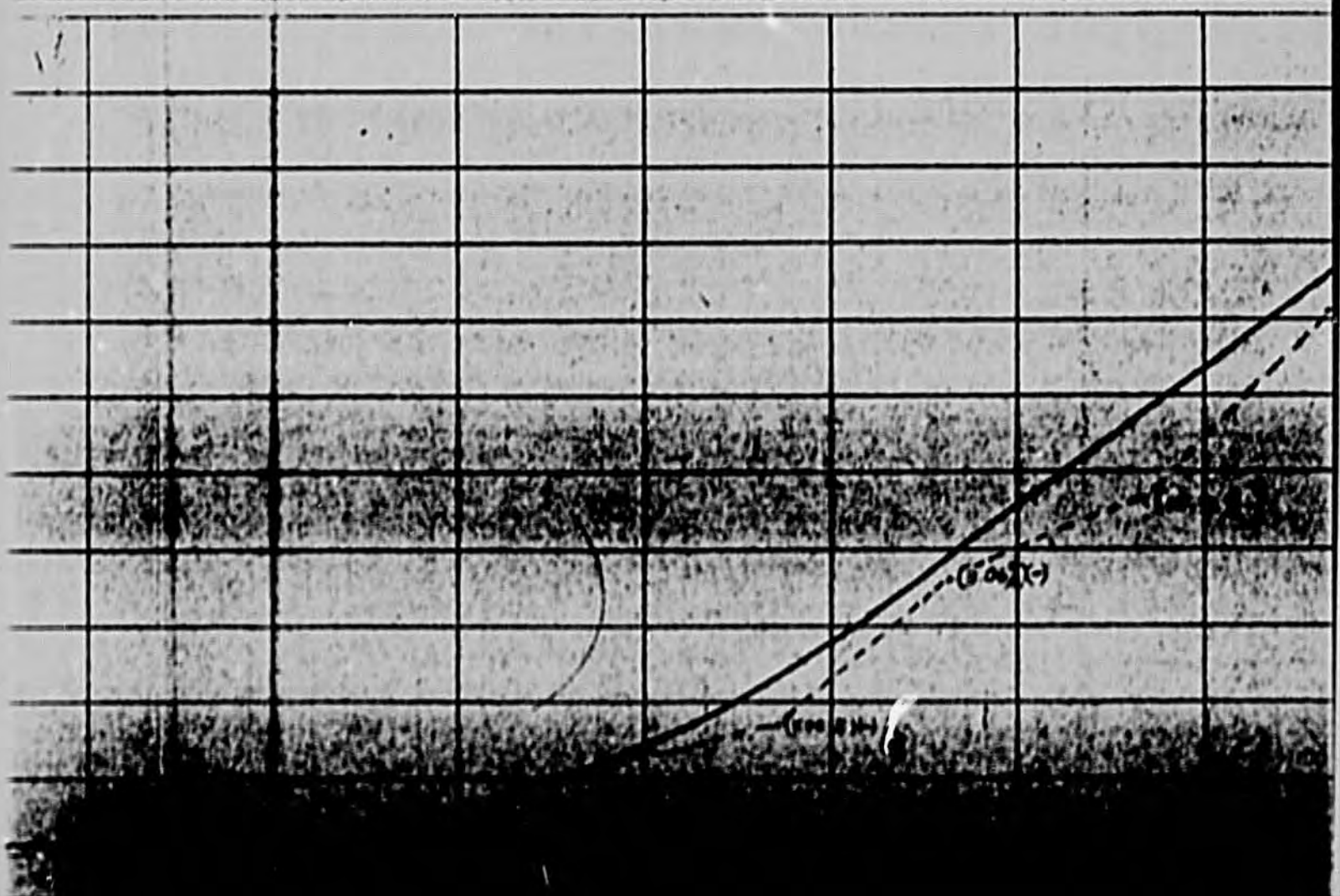
3
90

ITEM 108 (AGG. SUBBASE)
30

4
120

ITEM 108 (AGG. SUBBAS
30

CESS COARSE AND FINE AGGREGATES, PROCURE CEMENT, STEEL FORM ETC. AND VA



JAN 23	FEB 27	MAR 29	APR 28
150	180	210	240

1 833,289 12	1,333,346 74	1,833,203 02	
3 208,349.32	4,541, 636.06	6,374,899 08	

ITEM 1.60.2 (PROVIDE AND MAINTAIN OFFICE AND LA
335

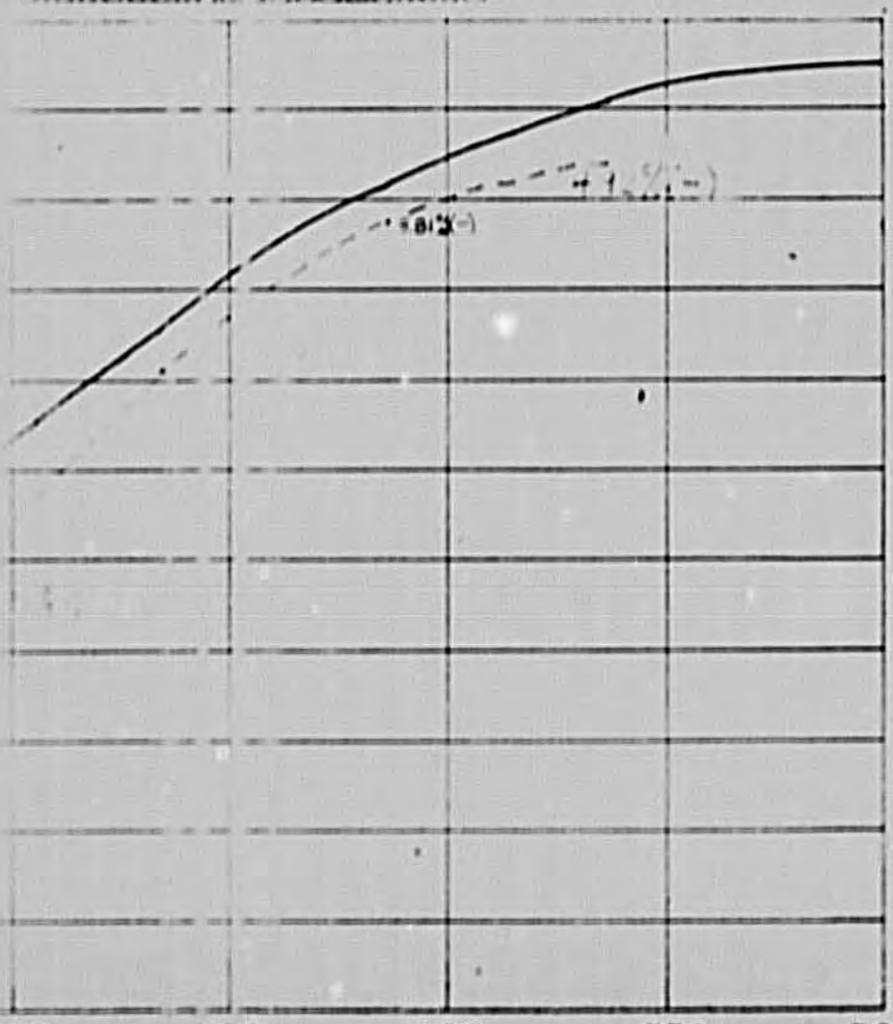
ITEM 1.60. A (FORCE ACCOUNT WORK MAINTENANCE
275

81

C PAVEMENT)
5
165
SUBBASE)
10

ITEM 118 (PREPARATION OF R
235

AND VARIOUS TESTS FOR ITEMS 316 & 405, 107 & 108



ITEM NO.	ESTIMATED % WEI		
	SCHEDULED	ACCOMPLISH	
		ITEM	PROJ
1.60.1A	0.919	90.00	0.8
1.60.2	0.398	75.00	0.
106	0.242	84.84	0.
107	2.440	73.69	1.
108	6.342	54.32	3.
118	0.768	86.35	0.
316	86.560	93.73	81
405	0.214	—	—
405-1	0.043	24.00	0.
500-1	2.062	72.74	1.
TOTAL 100		—	87.

APR 28	MAY 28	JUN 27
240	270	300

[illegible],203.02	1,[illegible]870.82	1,208,541.29	[illegible],731.44
[illegible],833.03	6,24[illegible],769.90	9,458,311.19	10,[illegible]0,042.63

[illegible] OFFICE AND LABORATORY FOR ENGINEER)

[illegible] MAINTENANCE OF UNPAVED SECTION (SEC. ROAD)

ITEM 500 (RIPRAP & GROUTED RIPRAP)
80

ITEM 108 (AGGREGATE SUB-BASE)
170

ITEM 316 (PORTLAND CEMENT CONCRETE PAVEMENT)
170

PREPARATION OF PREVIOUSLY CONSTRUCTED ROAD)

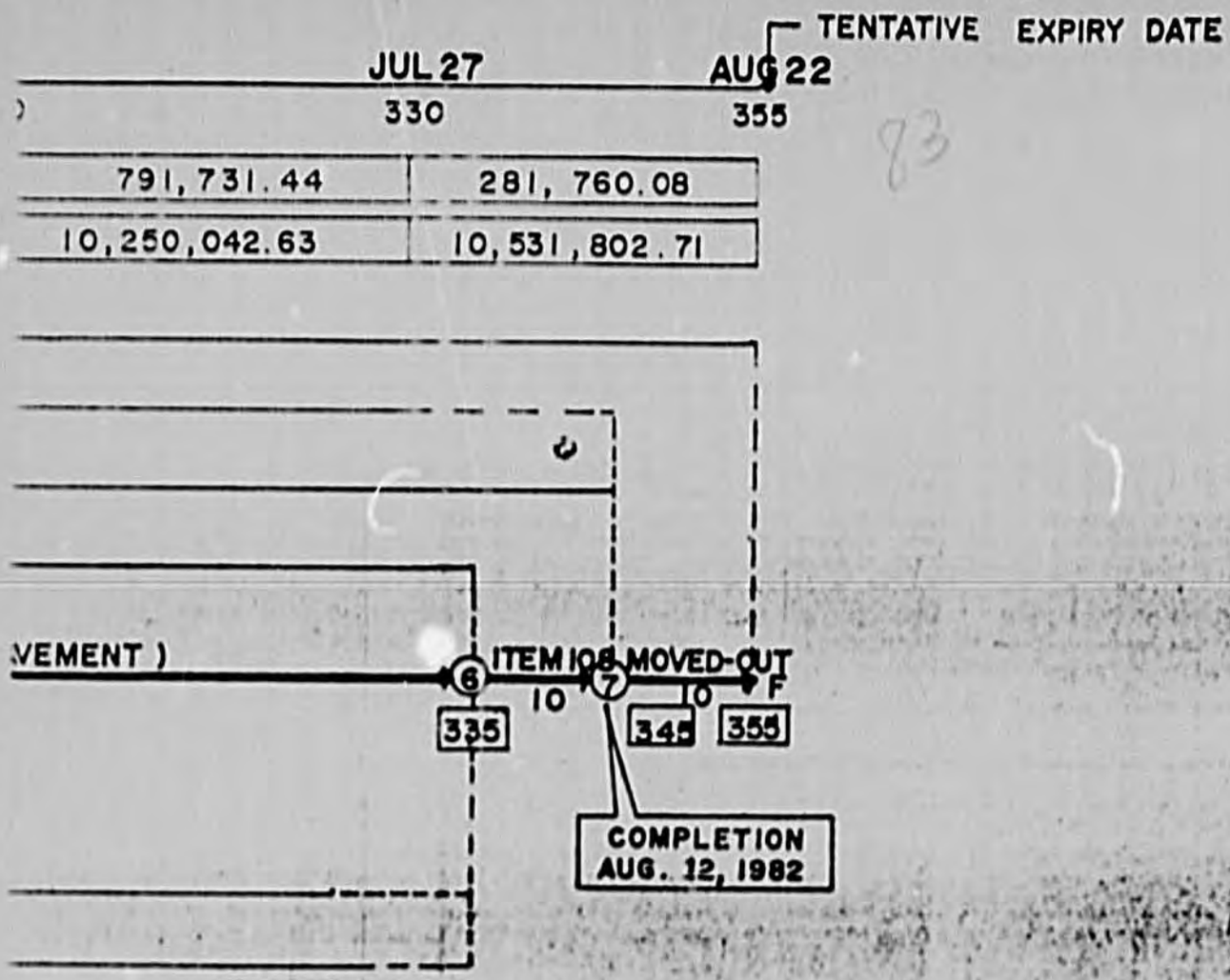
ESTIMATED % WEIGHT			QUANTITY	UNIT COST	AMOUNT
SCHEDULED	ACCOMPLISHED ITEM	ACCOMPLISHED PROJECT			
0.919	[illegible]	0.68	20 Km. mo.	P 4,840.00	P 96,800.00
0.398	[illegible]	0.30	LUMP SUM	5,500.00	42,000.00
0.242	[illegible]	0.21	554 cu.m.	46.14	25,561.56
2.440	[illegible]	1.80	5,564 cu.m.	46.20	251,056.80
5.342	[illegible]	3.45	8,662 cu.m.	77.20	667,934.40
0.768	[illegible]	0.66	9,265 Km.	8,734.76	80,927.55
36.560	[illegible]	81.14	56,280 sq.m.	162.00	9,117,360.00
0.214	—	—	25 cu.m.	901.28	22,532.00
0.043	[illegible]	0.01	5 cu.m.	901.28	4,506.40
1.062	[illegible]	1.50	850 cu.m.	255.44	217,124.00
100	—	87.90			P10,531,802.71

REVI

SUB

RECO

APPR



REVISED PERT CPM/CASH FLOW
DANAO-PASACAO ROAD

(1st REVISION: JANUARY 31, 1982)

SUBMITTED BY:

MAROSA ENTERPRISES

MARIO [illegible]
GENERAL MANAGER

RECOMMENDING APPROVAL:

ALEJANDRO DESEO
PROJECT MANAGER, A & E

ANGEL SALVADOR
PROJECT MANAGER, PMO

SUMMARY OF PROJECT ACCOMPLISHMENT
(As of July 28, 1962)

DAMAGE-RATIO AND

PROJECT COMPONENT	COST	RELATIVE WEIGHT	ACCOMPLISHMENT			PERCENT (%) WEIGHTED ACCOMPLISHMENT
			PROGRAM	ACTUAL	PERCENT	
1. [illegible]						
Item 1.40.14 Item 1.40.2	136,000.00	0.013	136,000.00	118,600.00	85.14	1.10
2. [illegible]						
Item 105 Item 177 Item 178 Item 110	1,011,400.31	0.095	1,011,400.31	633,823.88	62.62	6.11
3. [illegible]						
Item 115	9,117,360.00	0.855	9,117,360.00	8,545,662.00	93.73	81.16
4. [illegible]						
Item 40 Item 40-1	27,030.40	0.002	27,030.40	1,802.56	6.67	0.013
5. [illegible]						
Item 500	217,124.00	0.021	217,124.00	158,372.50	72.94	1.52
TOTAL	10,511,022.71	1.000	10,511,070.71	9,448,291.24	-	89.90

ITEMIZED CERTIFIED ADDITIONS
As of July 20, 1962

DATO-PLANGAN ROAD

ITEM No.	DESCRIPTION	TO QUANTITY	UNIT COST (.)	AMOUNT (.)	CERTIFIED ADDITIONS Percentage based on bid quantities	Quantity/ Value	Value (.)
	GLOBAL						
1.40.11	[illegible]	[illegible]	4,040.00	16,800.00	90.00	18	87,120.00
1.90.2	[illegible]	[illegible]	3,500.00	42,000.00	75.00	9	31,500.00
				138,300.00			118,620.00
	[illegible]						
104	[illegible]	564 cu. m.	46.14	26,251.56	81.54	470	21,685.80
107	[illegible]	5,544 cu. m.	46.20	257,056.80	73.69	4,100	189,420.00
108	[illegible]	5,502 cu. m.	77.23	557,934.40	51.32	4,700	362,840.00
113	[illegible]	[illegible] cu. m.	8,734.75	20,927.55	56.35	8	69,878.08
313	[illegible] (0.20 m. [illegible])	36,750 sq. m.	132.00	4,117,350.00	93.73	52,751.00	4,945,662.00
405	[illegible]	25 cu. m.	901.28	22,532.00	-	-	-
405-1	[illegible]	5 cu. m.	901.28	4,506.40	24.00	2	1,802.56
500-1	[illegible]	850 cu. m.	256.44	217,124.00	72.94	620	158,372.80
	TOTAL			10,531,802.71			9,468,281.24

Republic of the Philippines
MINISTRY OF PUBLIC WORKS AND HIGHWAYS
M A N I L A

MONTHLY CONSTRUCTION REPORT

for

Sub-Project 3
Contract Package No. 4

TIGMAN AND HIMURAGAT RIVER BRIDGES

No. 16

(As of July 20, 1982)

TECHNIKS GROUP CORPORATION

26

PROGRESS REPORT NO. 16
July 1982

PROJECT: TIGMAN AND HIMURAGAT RIVER BRIDGES
Sub-Project 3, Contract Package No. 4

CONTRACTOR: A.B. AGUINALDO CONSTRUCTION

I. INTRODUCTION:

This sixteenth monthly report covers the progress of construction for the month of July, 1982. The activities of the Contractor were as follows:

a) Concrete paving of Bridge Approaches

b) Earthwork Operation

c) Riprapping (grouted)

II. GENERAL SITE CONDITION:

A. WEATHER:

Fair weather condition prevailed during the month except for the last few days of rain brought by typhoon "Dwang".

B. PEACE AND ORDER:

No untoward incident happened within the project area during the month.

III. MOBILIZATION:

Except for the mobilization of a road grader, the equipment presently available were adequate to undertake filling of approaches of Himuragat bridge.

IV. PROGRESS OF WORK:

A. TIGMAN RE-ALIGNMENT AND BRIDGE

Item 316 - PORTLAND CEMENT CONCRETE PAVEMENT

Pouring of concrete for the first approach of Tigman Bridge was undertaken during the month and the accomplishment was 72 L.M. (half width). At present, only 1.5 L.M. (half width) was the remaining balance to complete this item.

Item 500 - RIPRAP (GROUTED)

The Contractor had completed riprapping (grouted) the Abutments of this particular Bridge. Accomplished during the month was 6 cu.m..

B. RIMMASUT RE-ALIGNMENT AND BRIDGE

Item 316 - PORTLAND CEMENT CONCRETE PAVEMENT

Pouring of concrete for the first and second approach is still in progress. Accomplished during the month was about 151 L.M. (half width).

Item 500 - RIPRAP (GROUTED)

Placing of embankment protection on Abutment "B" of this Bridge is still in progress.

V. MATERIALS TESTING AND QUALITY CONTROL:

The Contractor's laboratory staff under the supervision of the A & M Materials Engineer performed the following laboratory and field tests:

Item 105 - ROADWAY AND DRAINAGE EXCAVATION

Grading 1

Liquid and Plastic Limit Test 1

Laboratory Compaction Test 1

Field Density Test 1

Item 107 - BORROW

Grading 2

Liquid and Plastic Limit Test 2

Laboratory Compaction Test 2

Field Density Test 7

Item 108 - AGGREGATE SURFACE

Grading 1

Liquid and Plastic Limit Test 1

Laboratory Compaction Test 1

Field Density Test 1

Item 216 - PORTLAND CEMENT CONCRETE PAVEMENT

a) Fine Aggregate

Grading 1

Specific Gravity 1

b) Coarse Aggregate

Grading 1

Specific Gravity 1

Unit Weight 1

Beam samples taken . . . . . 4 sets

Beam samples tested . . . . . 4 sets

Item 509 - GROUTED RIPRAP

Inspection report on rock used . . 1

VI. ACCOMPLISHMENT OF MAJOR ITEMS (Accumulated as of this period)

A. TIMAN RE-ALIGNMENT AND BRIDGE

Substructure . . . . . Completed

Superstructure . . . . . Completed

Earthwork . . . . . Completed

P.C.C. Pavement . . . . . Substantially completed (without shoulders)

Incidentals . . . . . Completed

B. HINUNGAN RE-ALIGNMENT AND BRIDGE

Substructure . . . . . Completed

Superstructure . . . . . Completed, except for end sidewalks of both Abutments

Earthwork . . . . . Backfill and subbase partially accomplished near Abutments.

Incidentals . . . . . Item 500, partially completed

VII. COMMENTS AND RECOMMENDATIONS:

The Contractor resumed earthwork operation on the approaches of Hinungan Bridge but heavy downpour brought by typhoon "Ernang" last July 14 and 15 made the embankment over saturated such that the road equipment could not operate.

VIII. VISITS AND MEETINGS:

A. VISITORS TO SITE

NAME	DESIGNATION	DATE 1982	PURPOSE
Alejandro Deseo	Project Manager, TGC	June 24	Inspection
Silvino Castillon	Resident Engineer, PNO	June 24	Inspection
Torry Fernandez	C.E USAID/Phil.	June 25	Inspection
Alejandro Deseo	Project Manager, TGC	June 26	Inspection
Angel Salvador	Project Manager, PNO	June 30	Inspection
Alejandro Deseo	Project Manager, TGC	June 30	Inspection
Juanito dela Torre	Consultant, BRMDP	July 6	Inspection
Manuel Diaz	BRMDP	July 6	Inspection
Alejandro Deseo	Project Manager, TGC	July 8	Inspection
Alejandro Deseo	Project Manager, TGC	July 12	Inspection
Alejandro Deseo	Project Manager, TGC	July 13	Inspection
Oscar Bermillo	USAID	July 13	Inspection
Angel Salvador	Project Manager, PNO	July 14	Inspection
Juanito dela Torre	Consultant, BRMDP	July 16	Inspection
Manuel Diaz	BRMDP	July 16	Inspection
Oscar Bermillo	USAID	July 20	Inspection

ANNEX "E-A"

PROJECT: TIGNAN AND HIMURAGAT RIVER BRIDGES
Sub-Project 3, Contract Package No. 4

WEATHER REPORT

Date - 1982		Weather Condition
June	21	Fair
	22	Fair
	23	Fair
	24	Fair
	25	Fair
	26	Fair
	27	Fair
	28	Fair
	29	Fair
	30	Fair
July	1	Fair
	2	Fair
	3	Fair
	4	Fair
	5	Fair
	6	Fair
	7	Fair
	8	Fair
	9	Fair
	10	A.M.: Fair; P.M.: Rainy
	11	Fair
	12	Fair
	13	Fair
	14	Rainy typhoon "Emang"
	15	Rainy typhoon "Emang"
	16	Rainy
	17	A.M.: Fair; P.M.: Rainy
	18	Rainy
	19	A.M.: Fair; P.M.: Rainy
	20	Fair - Cloudy

ANNEX "E-B"

A.B. AGUINALDO CONSTRUCTION
Tigman and Himuragat River Bridges
Tinambac, Camarines Sur

LIST OF EQUIPMENT
(As of July 20, 1982)

Quantity	Description	Remarks
1	Bulldozer, D80A Komatsu	Under Repair
1	Bulldozer, D7E Caterpillar	Operational
1	Payloader, Komatsu, 160	Operational
1	Road Roller, Kato 10 t	Operational
2	Dump Truck, 6 wheeler	Operational
1	Two-Bagger Concrete Mixer	Operational
1	Concrete Vibrator	Operational

Submitted by:

AMOR PAGUYO
Project Engineer

TECHNIKS GROUP CORPORATION
Engineers - Consutant
Tigman and Himuragat River Bridges
Field Office - Tinambac, Cam Sur

Subject: PROJECT CONSULTATION MEETING

Time: July 14, 1982 Time: 1:30 - 2:30 P.M.

Attendees:

Danilo Cosinas	-	Actg. Resident Engineer, TGC
Ruben Pagkatipunan	-	Materials Engineer, TGC
Isagani Protacio	-	Field Utility Engineer, TGC
Amor Paguyo	-	Project Engineer, ABAC

Minutes:

1. The Contractor was advised to clean-up the bridge structure especially the travelled way to allow rain water to flow properly and to eliminate the dust for the convenience of the traveling public.

2. To hasten the earthwork operation on the approaches of Himuragat Bridge, the Contractor was advised to mobilized one road grader.

3. The Contractor was also advised to undertake shouldering on completed concrete pavement especially on Tigman Bridge wherein this operation could be started sooner.

Attested by:

AMOR PAGUYO
Project Engineer, ABAC

DANILO A. COSINAS
Actg. Resident Engineer, TGC

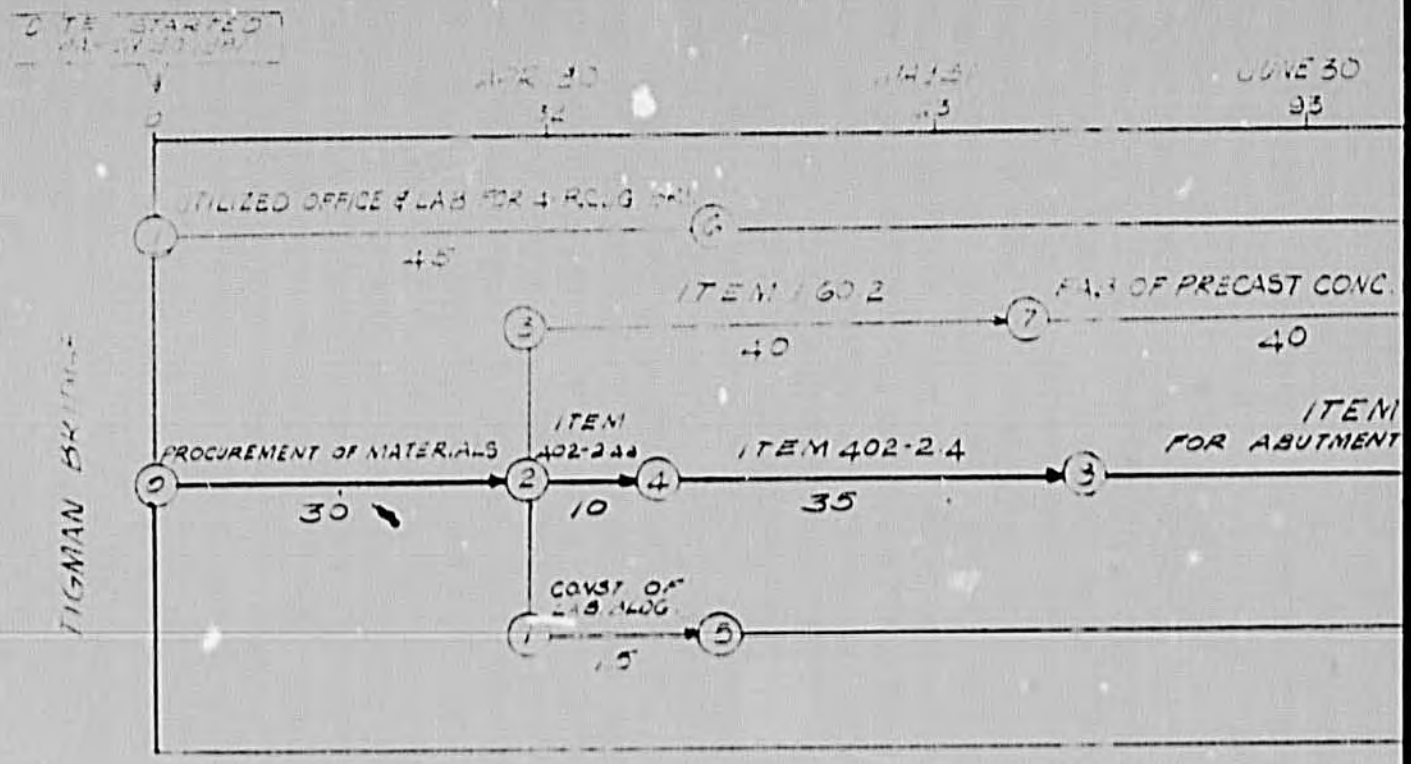
ITEM NO	ESTIMATED WEIGHT			QUANTITY	UNIT COST	AMOUNT
	SCHEDULE	ACCOMPLISHED				
		ITEM	PROJECT			
GENERAL						
1601	0.4174	[illegible]	[illegible]	6 Mo	4800.00	25 [illegible]
1602	0.5075	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SUBTOTAL	0.9247		[illegible]			[illegible]
TIGMAN BRIDGE						
100	0.0351	[illegible]	[illegible]	0.20 [illegible]	[illegible]	2420.00
105	4.0645	[illegible]	[illegible]	6125 cum	4.70	280432.50
107	0.3624	100.00	[illegible]	658 cum	4560	25070.80
108	0.8348	–	–	680 cum	84.70	57596.00
316	4.6090	–	–	2000 sqm.	159.00	318000.00
402-2.4a	0.4209	[illegible]	[illegible]	2 Ea.	14520.00	29040.00
402.2.4	2.8828	[illegible]	[illegible]	234 l.m	850.00	198900.00
403	0.6938	[illegible]	[illegible]	88 l.m	544.00	47872.00
405	3.5566	[illegible]	[illegible]	169 cum	1452.00	245388.00
405 A(2)	13.3319	[illegible]	[illegible]	8 Ea.	14980.00	[illegible]
406	4.5047	[illegible]	[illegible]	21,435 Kg	14.50	310[illegible]
500	0.4525	[illegible]	[illegible]	86 cum	3[illegible]	31[illegible]
510	0.0092	–	–	8 Ea.	80.00	640.00
SUBTOTAL	35.7592		[illegible]			2,467,224.80
HINURAGAT BRIDGE						
100	0.0238	[illegible]	0.0140	0.20 Ha	102850	2057.00
105	0.0867	[illegible]	0.0147	150 cum	3990	5985.00
107	10.6680	47.50	[illegible]	14,780 cum	49.80	736044.00
108	0.7979	–	–	650 cum	84.70	55055.00
316	7.0222	–	–	2850 sqm	170.00	[illegible]
402-2.4a	0.4209	[illegible]	0.4209	2 Ea	14520.00	[illegible]
402.2.4	4.8786	[illegible]	[illegible]	396 l.m	[illegible]	[illegible]
403	1.481	[illegible]	1.1481	[illegible]	5.4.00	[illegible]
405	8.0929	[illegible]	[illegible]	2[illegible]	[illegible]	[illegible]
405 A(2)	20.9944	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
406	8.3864	[illegible]	[illegible]	37100 Kg	[illegible]	[illegible]
500	0.7786	[illegible]	[illegible]	148 cum	63.00	9324.00
510	0.0096	–	–	8 Ea	83.00	664.00
SUBTOTAL	63.3161		40.500			4,368,537.00
GRAND TOTAL	100.00		20.54			6,399,561.80

MONTHLY ACCOMPLISH
CUMULATIVE TOTAL

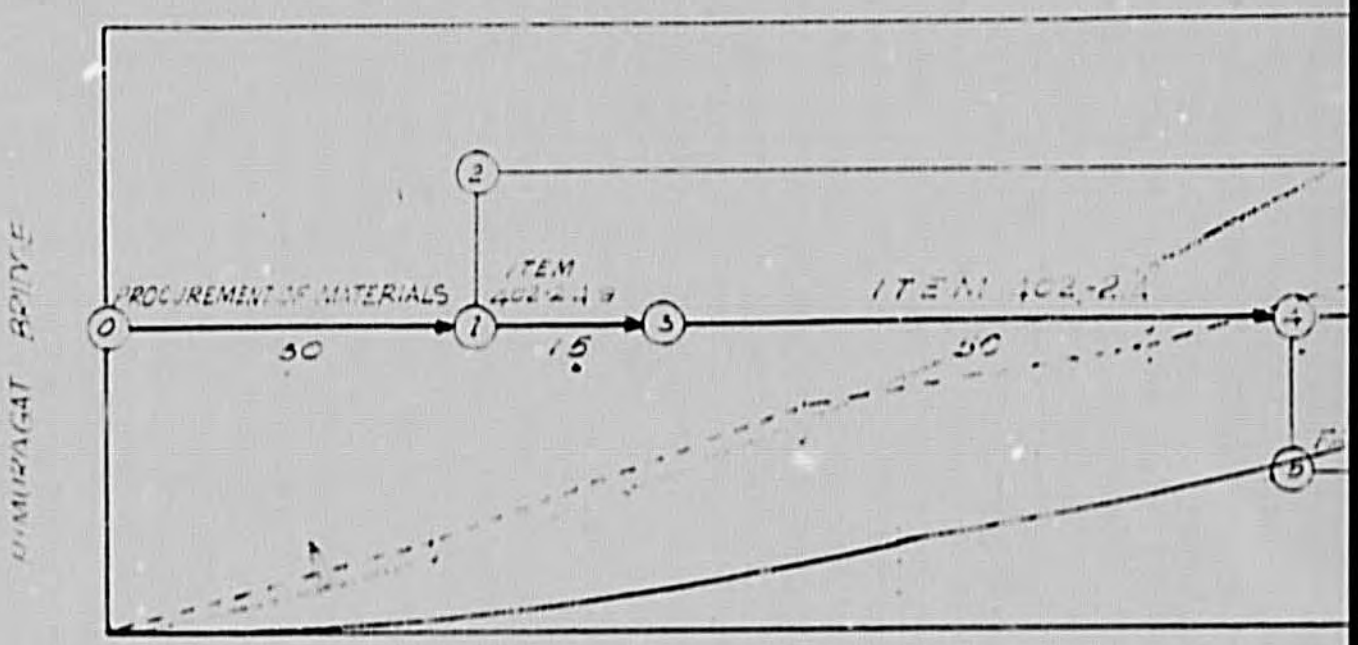
SUBMITTED BY

A.

REVISED PERT / CP



Origin



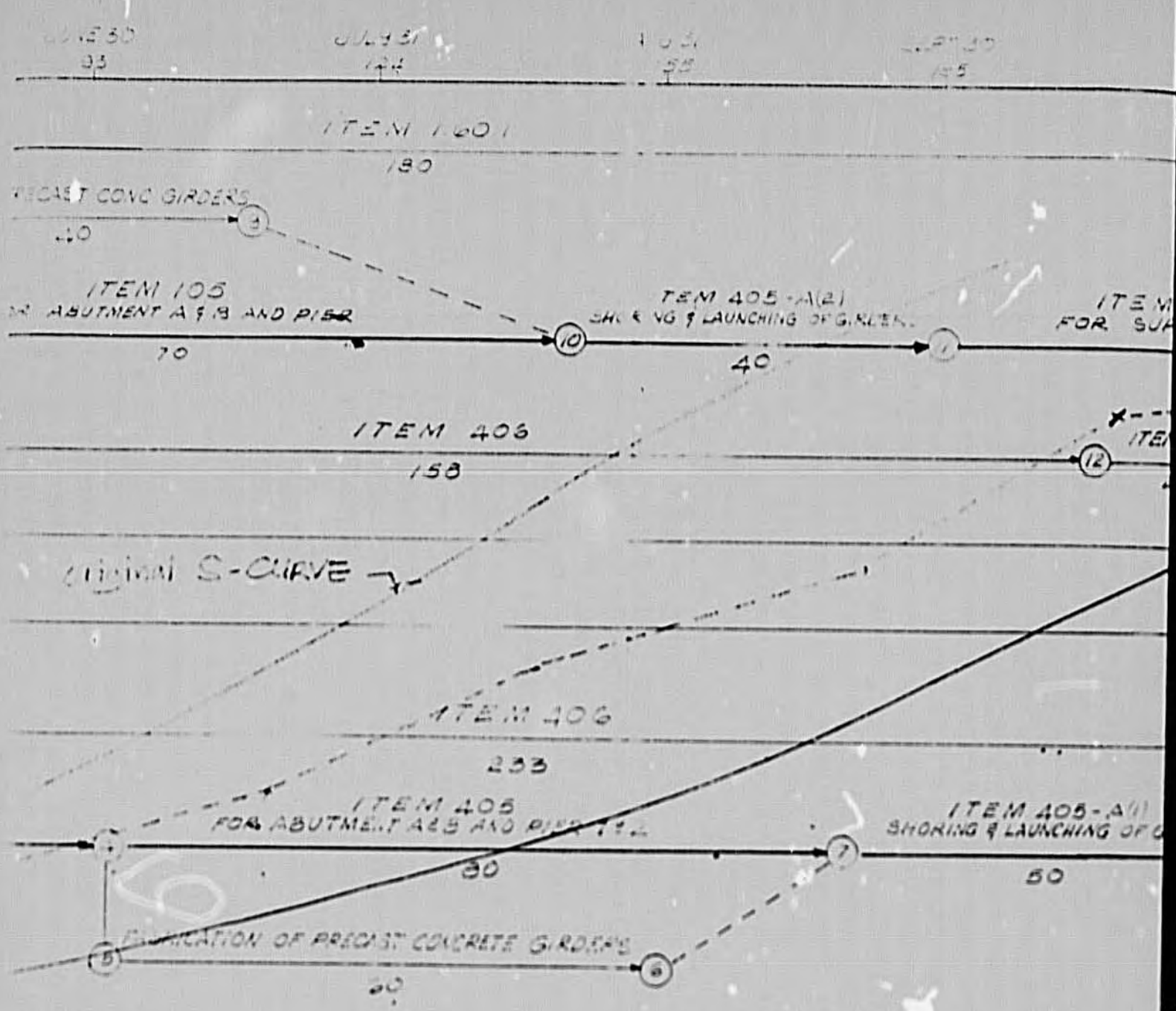
PLISHMENT	46 314.04	382 774 31	476 922.56	
TAL		429 088 35	906.010.91	

RECOMMEND

A.B. AGUINALDO CONSTRUCTION

AMOR R. PAGUYO
OFFICE ENGINEER

96



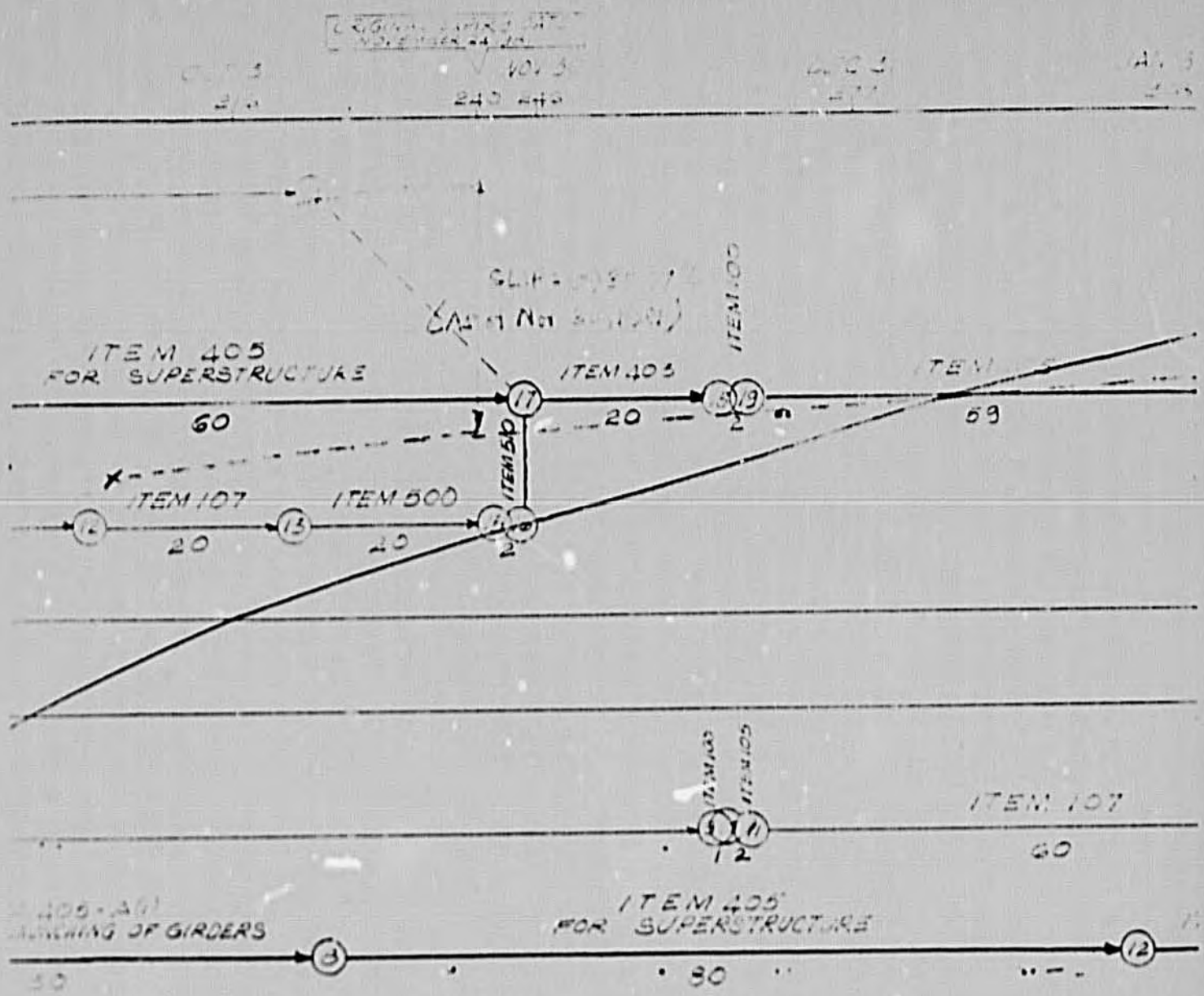
	469,911.92	672,627.52	795,712.68	1,001,672.5
	1,375,922.85	2,048,550.35	2,842,323.03	3,843,995.55

RECOMMENDING APPROVAL

ALEJANDRO LESEO
PROJECT MANAGER, ACE

ANGEL E. S
PROJECT MAN

1 FOR TIGMAN & HIMLKAGAN C



[illegible] 672.92	546,168.45	660,060.29	510,548.08
[illegible] 990.93	4,510,164.00	5,050,224.29	5,560,772.37

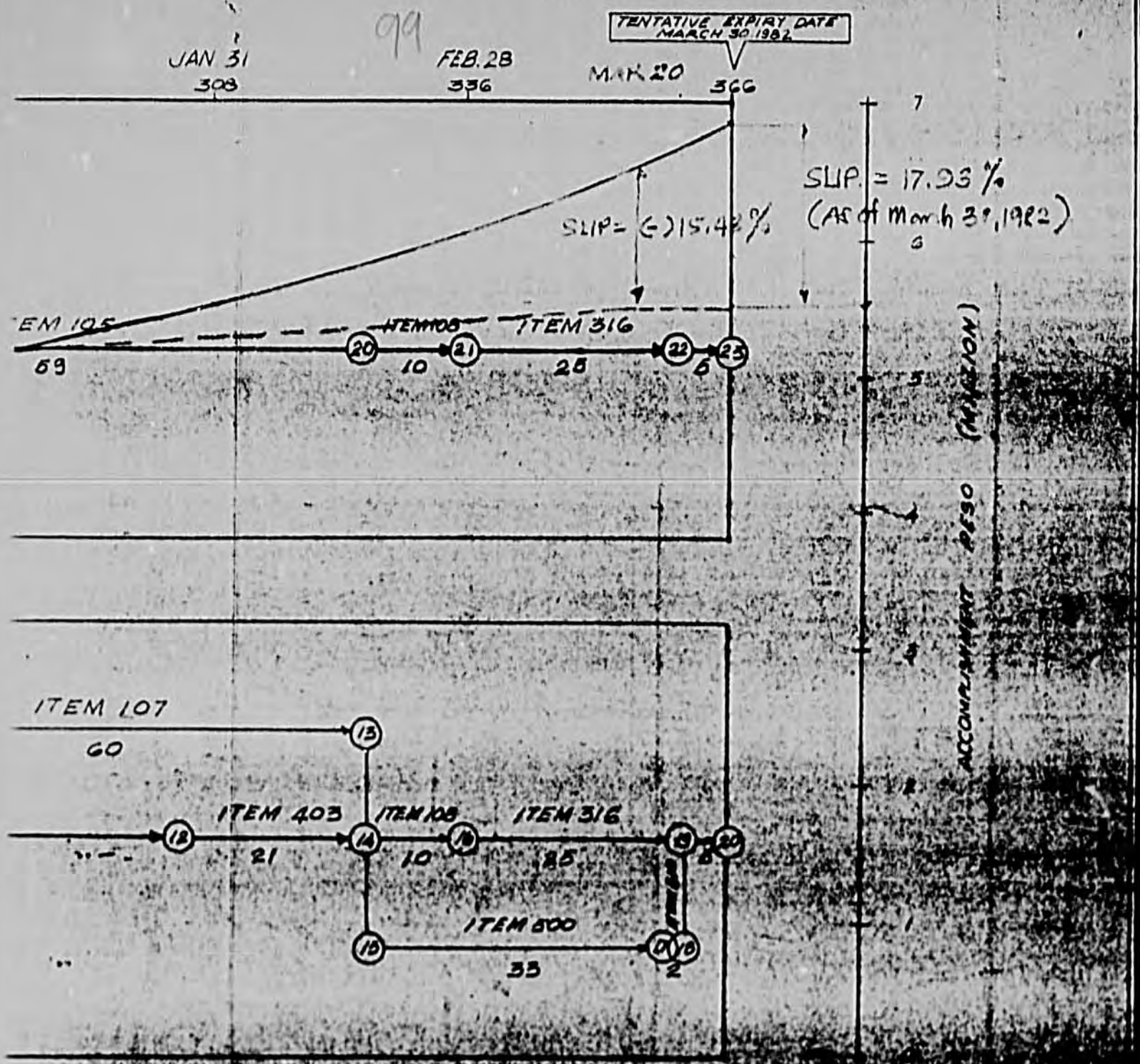
APPROVED BY

[illegible]
VGEL E. SALVADOR
[illegible]OJECT MANAGER, PMO

VICENTE B. LOPEZ
PROJECT DIRECTOR

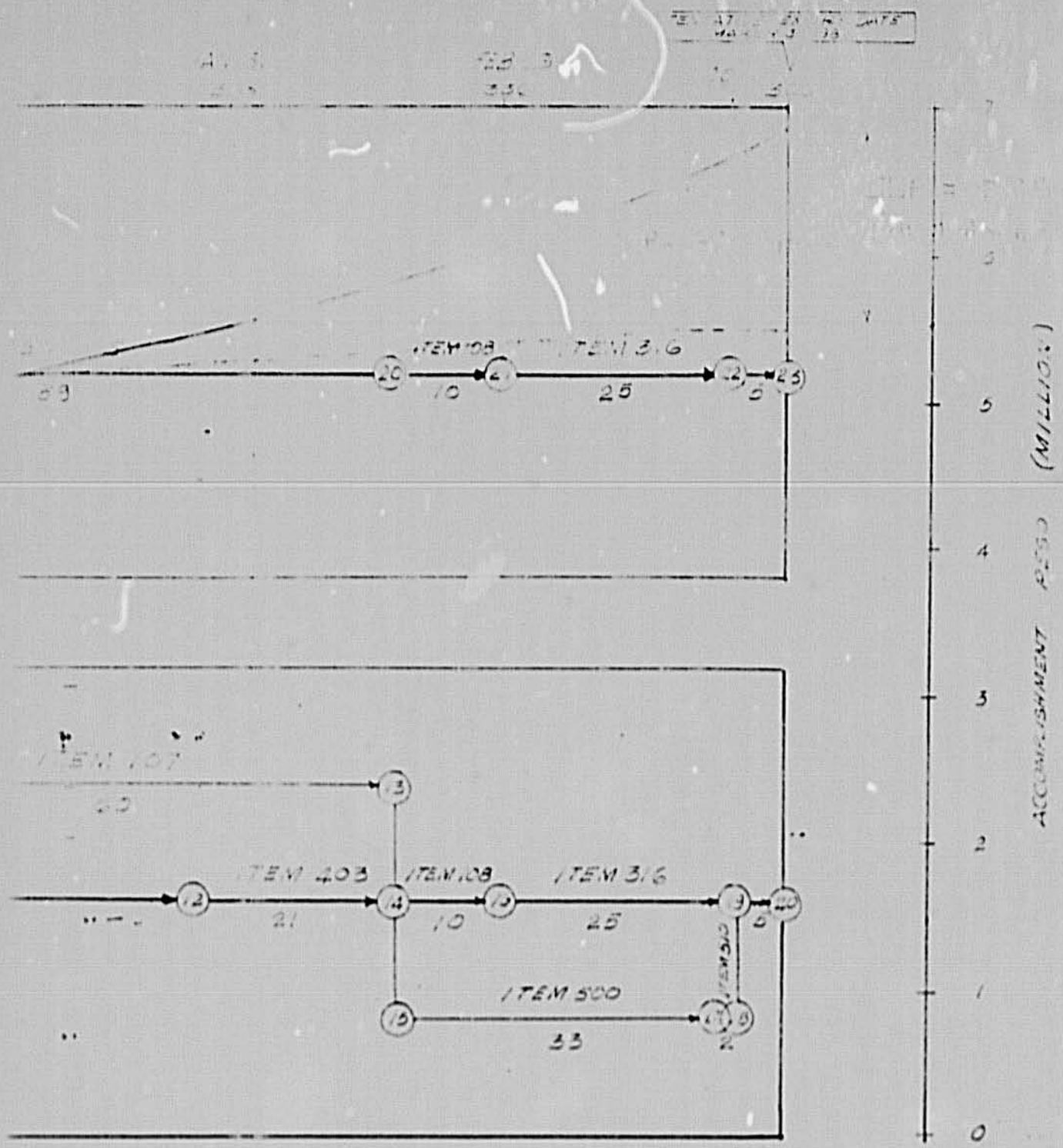
-UAY BRIDGES

99



510,548.08	505,625.45	853,164.00
560,772.37	6,066,397.80	6,899,561.80

B. LOPEZ
DIRECTOR



310 549 08	505 625 45	833 194 27
330 772 37	6 066 397 90	6 899 561 90

B. LOPEZ
DIRECTOR

100

SUMMARY OF PROJECT ACCOMPLISHMENT
(As of July 20, 1982)

Tigman and Himuragat River Bridges

PROJECT COMPONENT	COST	RELATIVE WEIGHT	ACCOMPLISHMENT			PERCENT (%) WEIGHTED ACCOMPLISHMENT
			PROGRAM	ACTUAL	PERCENT	
GENERAL: Item 1.60.1 Item 1.60.2	63,800.00	0.009	63,800.00	63,800.00	100.00	0.90
EARTHWORK: Item 100 Item 107 Item 105 Item 108	1,164,660.30	0.169	1,164,660.30	957,090.80	82.18	13.90
PAVEMENT: Item 316	802,500.00	0.116	802,500.00	440,640.00	54.91	6.37
STRUCTURES: Item 402-2.4a Item 405a(1) Item 402-2.4 Item 405a(2) Item 403 Item 406 Item 405	4,782,355.50	0.693	4,782,355.50	4,765,923.50	99.65	69.05
INCIDENTAL CONSTRUCTION: Item 500 Item 510	86,246.00	0.013	86,246.00	63,888.00	74.08	0.96
T O T A L	6,899,561.80	1.000	6,899,561.80	6,291,342.30	-	91.18

FINANCIAL COMPUTED ACCOMPLISHMENT
(As of July 20, 1982)

Tipton and Himuregat River Bridges

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT Percentage Based on Bid Quantities	Quantity/ Volume	Value
	GENERAL						
1.60.1	MAINTAIN OFFICE AND LABORATORY FOR ENGINEER	6 NOS.	4,800.00	28,800.00	100.00	6 NO.	28,800.00
1.60.2	FORCE ACCOUNT WORK (IMPROVEMENT OF PRESENT EXISTING BRIDGES	1 L.S.		35,000.00	100.00	100 %	35,000.00
		Sub-Total		₱ 63,800.00			₱ 63,800.00
	TIPTON BRIDGE						
100	CLEARING AND GRUBBING	0.20 HA.	12,100.00	2,420.00	100.00	0.20 HA.	2,420.00
105	ROADWAY AND DRAINAGE EXCAVATION	6,725 CU.M.	41.70	280,432.14	100.00	6,725 CU.M.	280,432.50
107	BORROW	538 CU.M.	46.60	25,070.80	100.00	538 CU.M.	25,070.80
10[illegible]	[illegible]	680 CU.M.	84.70	57,596.00	73.53	500 CU.M.	42,350.00
316	P.C. CONCRETE WEARING 0.20 M. THICK	2,000 SQ.M.	159.00	318,000.00	85.00	1,700 SQ.M.	270,300.00
402-2.4	STEEL H-BEST PILE	2 EA.	14,520.00	29,040.00	100.00	2 EA.	29,040.00
402-2.1	STEEL H-PILE	234 L.M.	850.00	198,900.00	99.15	232 L.M.	197,200.00
403	CONCRETE RAILING	88 L.M.	544.00	47,872.00	100.00	88 L.M.	47,872.00
405	CONCRETE CLASS "A"	169 CU.M.	1,452.00	245,388.00	100.00	169 CU.M.	245,388.00
405-e(5)	PRE-STRESSED CONCRETE STANDARD AASHTO I-BEAM TYPE 22.00 M.	8 EA.	114,980.00	919,840.00	100.00	8 EA.	919,840.00
406	REINFORCED STEEL	21,435 KG.	14.50	310,807.50	100.00	21,435 KG.	310,807.50
500	GROUTED RIPRAP	86 CU.M.	363.00	31,218.00	100.00	86 CU.M.	31,218.00
510	RIGHT-OF-WAY MONUMENT	8 EA.	80.00	640.00	–	–	–
		Sub-Total		₱2,467,244.80			₱ 2,401,938.80

LIMITED COMPUTED ACCOMPLISHMENT
(As of July 20, 1982)

Tigman and Himurage+ River Bridges

ITEM NO.	DESCRIPTION	BID QUANTITIES	UNIT COST	AMOUNT	COMPUTED ACCOMPLISHMENT: Percentage Based on Bid Quantities	Quantity/ Volume	Value
	HIMURAGAT BRIDGE						
100	CLEARING AND GRUBBING	0.20 HA.	10,285.00	2,057.00	50.00	0.10 HA.	1,028.50
105	ROADWAY AND ORDINARY EXCAVATION	150 CU.M.	39.90	5,985.00	100.00	150 CU.M.	5,985.00
107	BORROW	14,780 CU.M.	49.80	736,044.00	77.71	11,500 CU.M.	572,700.00
108	ROADBEDS SUBBASE	650 CU.M.	84.70	55,055.00	49.23	320 CU.M.	27,104.00
316	PORTLAND CEMENT CONCRETE PAVEMENT 0.20 M. THICK	2,[illegible] SQ.M.	170.00	404,500.00	35.16	1,002 SQ.M.	170,340.00
402-2.4	STEEL H-TEST PILE	2 EA.	14,520.00	29,040.00	100.00	2 EA.	29,040.00
402-2.4	STEEL H-PILE	396 L.M.	850.00	336,600.00	99.49	394 L.M.	334,900.00
403	CONCRETE RAILING	138 L.M.	574.00	79,212.00	100.00	138 L.M.	79,212.00
405	CONCRETE CLASS "A"	338 CU.M.	1,652.00	558,376.00	98.22	332 CU.M.	548,464.00
405-a(1)	PRE-STRESSED CONCRETE STANDARD AASHTO I-BEAM IV 23.20 M.	12 EA.	120,710.00	1,448,520.00	100.00	12 EA.	1,448,520.00
406	REINFORCING STEEL	37,100 KG.	15.60	578,760.00	99.46	36,900 KG.	575,640.00
500	GROUTED RIPRAP	148 CU.M.	363.00	53,724.00	60.81	90 CU.M.	32,670.00
510	RIGHT-OF-WAY MARKERS	8 EA.	83.00	664.00	--	--	--
		Sub-Total - -	- - - - - - - -	₱ 4,368,557.00	- - - - - - - -	- - - - - - - -	₱ 3,825,603.50
		GRAND TOTAL -	- - - - - - - -	₱ 6,899,561.80	- - - - - - - -	- - - - - - - -	₱ 6,291,342.30
	Slippage (As of March 30, 1982) - - - - - - - -		- 17.93 % (-)				

A P P E N D I C E S

APPENDIX A - MANPOWER SCHEDULE, CONSULTANTS STAFF FOR CONSTRUCTION SUPERVISION

* Keystaff and Administrative Staff

* Sub-Project 1, Segment "B"
  Libmanan Bridge-Cabusao Section

* Sub-Project 3, Contract Package No.1
  Calabanga - Sibobo Section

* Sub-Project 3, Contract Package No.2
  Sibobo - Tinambac Section

* Sub- Project 2
  Danao - Pasacao Road

* Sub-Project 3, Contract Package No.4
  Tigman and Himuragat River Bridges

APPENDIX B - EMPLOYMENT GENERATION SURVEY (SS3)

* TECHNIKS GROUP CORPORATION
  (Consultant, Package I)

APPENDIX C - CERTIFICATION

MANPOWER SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVISION

NAME	POSITION	1978	1979	1980	1981	1982
		J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O
	PROJECT MANAGER					
	SR. HWY. ENGR. / R.E.					
	SR. BR. ENGR. / R.E.					
	SR. MAT'LS. ENGR. / R.E.					
	SR. LOC. ENGR.					
	BOOKEEPER / PAYMASTER					
	MESSENGER / JANITRESS					
	SECURITY GUARD (3)					

SUBPROJECT 1, SEGMENT "B" — LIBMANAN BRIDGE - CABUSAO SECTION

NAME	POSITION	1978	1979	1980	1981	1982
		S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D J F M A M J
	RESIDENT ENGINEER		SAME AS KEY STAFF			
	MATERIALS ENGINEER					
	ENGR. INSPECTOR (HWY.)					
	FIELD UTILITY ENGR.					
	SURVEYMAN/DRAFTSMAN					
	C.E. AIDE/TECHNICIAN					
	CLERK/TYPIST					
	SURVEY AIDE (LABORER)					

SUBPROJECT 3, CONTRACT PACKAGE NO. 1 — CALABANGA - SIBOBO SECTION

NAME	POSITION	1978	1979	1980	1981	1982
		D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D J F M A M J J A
	RESIDENT ENGINEER				SAME AS KEYSTAFF	
	MATERIALS ENGINEER					
	ENGR. INSPECTOR (HWY.)					
	FIELD UTILITY ENGR.					
	SURVEYMAN/DRAFTSMAN					
	C.E. AIDE/TECHNICIAN					
	CLERK/TYPIST					
	SURVEY AIDE (LABORER)					

MANPOWER SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVISION

SUB-PROJECT 3, CONTRACT PACKAGE NO. 2 — SIBOTO — TINAMBAC SECTION

NAME	POSITION	1979	1980	1981	1982
	RESIDENT ENGR. (ACTG.)				
	MATERIALS ENGINEER				
	ENGR. INSPECTOR (HWY)				
	FIELD UTILITY ENGR.				
	SURVEYMAN/DRAFTSMAN				
	CLERK/TYPIST				
	C.E. AIDE/TECHNICIAN				
	SURVEY AIDE (LABORER)				

SUBPROJECT 3, CONTRACT PACKAGE NO. 3 — BRIDGES, CALABANGA–TINAMBAC ROAD, INCL. TIGMIN & HIMUFAGAT BRIDGES

NAME	POSITION	1979	1980	1981	1982
	RESIDENT ENGINEER	SAME AS KEYSTAFF		SAME AS KEYSTAFF	
	MATERIALS ENGINEER				
	ENGR. INSPECTOR (BR.)				
	FIELD UTILITY ENGR.				
	SURVEYMAN/DRAFTSMAN				
	C.E. AIDE/TECHNICIAN				
	CLERK/TYPIST				
	SURVEY AIDE (LABORER)				

SUBPROJECT 2, — DALAO–PASACAO ROAD

NAME	POSITION	1979	1980	1981	1982
	RESIDENT ENGR. (ACTG.)	SAME AS KEYSTAFF			
	MATERIALS ENGINEER				
	ENGR. INSPECTOR (HWY.)				
	ENGR. INSPECTOR (BR.)				
	FIELD UTILITY ENGR.				
	SURVEYMAN/DRAFTSMAN				
	C.E. AIDE/TECHNICIAN				
	CLERK/TYPIST				
	SURVEY AIDE (LABORER)				

Bicol River Basin Development Program
San Jose, Pili, Cam. Sur

• EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONTRACTOR TECHNIKS GROUP CORPORATION (Consultant-Package I

FOR THE MONTH OF JULY 1982

	ADMINISTRATIVE/ FINANCE	ENGINEERING/ TECHNICAL	SKILLED	UNSKILLED
MANILA - BASED 1/	2	8	-	-
LOCAL - HIRED 2/	8	17	-	4
SUB-CONTRACTORS 3/	-	-	-	-
T O T A L	10	25	-	4

1/ Includes permanent employee

2/ Employees residing within the Basin Area

3/ Local Hired Only

Submitted by:

ALEJANDRO DESEO
Project Manager

APPENDIX "B"

Bicol River Basin Development Program
San Jose, Pili, Cam. Sur

EMPLOYMENT GENERATION SURVEY (GS3)

NAME OF CONTRACTOR R.L. UMALI CONSTRUCTION CORPORATION

FOR THE MONTH OF JULY, 1982

	ADMINISTRATIVE/ FINANCE	ENGINEERING/ TECHNICAL	SKILLED	UNSKILLED
MANILA - BASED 1/	3	10	8	-
LOCAL - HIRED 3/	-	-	-	15
NON-NATIVES 2/	3	3	10	10
T O T A L	3	13	18	25

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local hired

Submitted by :

(SGD.) BENJAMIN R. CACERES
Project Engineer

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Bicol River Basin Development Program
San Jose, Pili, Cam. Sur

MANPOWER UTILIZATION SURVEY (US3)

NAME OF CONTRACTOR : PROMACTIO DEVELOPMENT AND CONSTRUCTION CORPORATION

FOR THE MONTH OF : JULY , 1982

	ADMINISTRATIVE/ SUPERVISORY	ENGINEERING/ TECHNICAL	SKILLED	UNSKILLED
NATIONAL - HIRED 1/	2	3	15	6
LOCAL - HIRED 2/	1	2	30	71
SUB - CONTRACTOR 3/	-	-	-	-
TOTAL	3	5	45	77

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

Submitted By:

(SGD.) LUCIO C. OLASO
Asst. Project Engineer

Bicol River Basin Development Program
San Jose, Pili, Cam. Sur

• EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONTRACTOR GOLDROCK CONSTRUCTION & DEVELOPMENT CORPORATION

FOR THE MONTH OF JULY 1982

	ADMINISTRATIVE/ FINANCE	ENGINEERING/ TECHNICAL	SKILLED	UNSKILLED
MANILA - BASED 1/	1	1	9	-
LOCAL - HIRED 2/	10	11	32	38
SUB-CONTRACTOR 3/	-	-	-	-
T O T A L	11	12	41	38

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired

Submitted by:

ANTONIO MORALES
Project Engineer

BICOL RIVER BASIN DEVELOPMENT PROGRAM
San Jose, Pili, Com. Sur

EMPLOYMENT GENERATION SURVEY (SS-3)

NAME OF CONTRACTOR : MARGSA ENTERPRISES

FOR THE MONTH OF : JULY, 1982

	ADMINISTRATIVE/ TRADE	ENGINEERING/ TECHNICAL	SKILLED	UNSKILLED
MANILA - HIRED 1/	0	0	0	0
LOCAL - HIRED 2/	0	4	10	35
SUBCONTRACTOR 3/	0	0	0	0
TOTAL	0	4	10	35

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local-hired only

Submitted by:

(Sgd.) RUBEN P. PAMANG
Project Engineer

Bicol River Basin Development Program
San Jose, Pili, Cam. Sur

• EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONTRACTOR A.B. AGUINALDO CONSTRUCTION

FOR THE MONTH OF JULY 1982

	ADMINISTRATIVE/ FINANCE	ENGINEERING/ TECHNICAL	SKILLED	UNSKILLED
MANILA - BASED 1/	2	2	-	-
LOCAL - HIRED 2/	1	-	4	8
SUB-CONTRACTOR 3/	-	-	2	-
T O T A L	3	2	6	8

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired

Submitted by:

AMOR PAGUYO
Project Engineer

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APPENDIX "C"

July 20, 1982

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

This is to certify that the Monthly Construction Progress Report submitted to the Ministry of Public Works and 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.

ALEJANDRO DESEO
Project Manager