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REPUBLIC OF THE PHILIPPINES

MINISTRY OF PUBLIC HIGHWAYS

MANILA

BICOL RIVER BASIN DEVELOPMENT PROJECTS SECONDARY & FEEDER ROADS

CAMARINES SUR

PACKAGE II

MONTHLY CONSTRUCTION REPORT

SEPTEMBER, 1981

RECEIVED
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INTEGRATED PHILCONSULT INC.
CONSULTING ENGINEERS
PHILIPPINES

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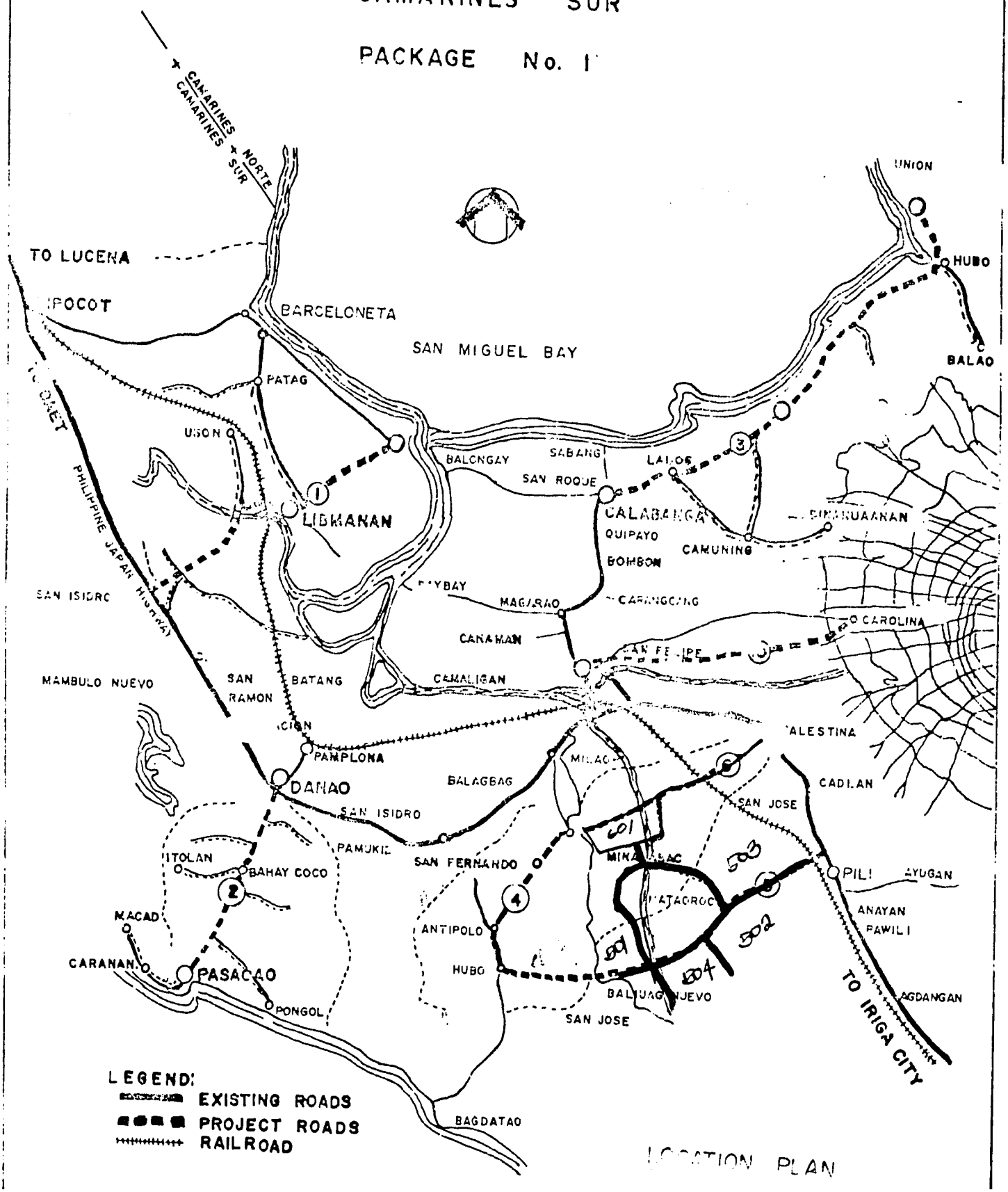
FIGURE 1

BICOL RIVER BASIN DEVELOPMENT PROJECT
SECONDARY AND FEEDER ROADS
CAMARINES SUR

PACKAGE No. 1



LOCATION PLAN

Bicol River Basin Development Project

Secondary and Feeder Road

PACKAGE II

MONTHLY CONSTRUCTION REPORT

No. 32

Minalabac-Antipolo-Hubo Road Project

Sub-Project No. 4

Prepared By:

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PROGRESS REPORT NO. 32
September, 1981

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

1. GENERAL

This project consists of the construction of:

a. Minalabac-Antipolo-Hubo secondary road, from the beginning of the project at the municipality of Minalabac, Camarines Sur, Sta. 0 + 000, to the barrio of Hubo, Minalabac, the end of the project at Sta. 8 + 838.94 or a length of 8.83894 kilometers.

b. Antipolo-Lupi-San Fernando feeder road no. 401, Sta. 0 + 008 to Sta. 5 + 136.53, or a length of 5.12853.

c. Hubo-Baliwag Nuevo feeder road no. 402, Sta. 0 + 002.00 to Sta. 2 + 620.44 or a length of 2.61844 kms.

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

The total length of the project is 24.24765 kms.

The total amount of the project including approved change order is ₱ 14,443,254.20.

2. WORK PROGRESS

On Secondary Road, asphalt paving work during the month has been limited to only about 3,050 sq.m. or about 500 lineal meters due to heavy rains caused by typhoon "Rubing" which struck Bicol Region last September 17, 1981, never allowing the ground to become dry. Up to this writing, the ground is still unwork-

able, more so on asphalt paving work.

Suspension orders have been issued to the contractor and until the present, the contractor has been given extensions of time due to unworkable weather. The estimated expiry date of the contract is now October 10, 1981.

Weather permitting, the contractor has still plenty of time to finish paving work on about 3,050 sq.m. or about 500 lineal meters which is the only remaining item of work to complete the project.

Sta. 0 + 785 to Sta. 0 + 915 or a length of about 130 lineal meters has become an exception due to the construction of a bridge, a Post tensioned 90 ft. bridge across the cut-off channel at Minalabac.

As built plans have already been prepared and readied for both Secondary and Feeder Roads. Due to approved change orders, a large volume of Item 107, 108 and some riprap on the bridge approaches have to be incorporated in the as built plans. There are also additional lines of RC pipes that were installed to suit actual field conditions. The contractor is expected to claim for such additional changes.

General Percentage of Work Accomplished:

1. Minalabac-Antipolo-Hubo Secondary Road - - - 61.79
2. #401 - Antipolo-Lupi-San Fernando - - - - - -13.64
3. #402 - Hubo-Baliwag Road - - - - - - - - - - - 8.58
4. #403 - Hubo-Bagolatao Road - - - - - - - - - - 14.74

T o t a l - - - - - - - - - 98.75%

Percent Time elapsed - - - - - 98.46%

A. Secondary Road

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

Subgrade - - - - - - - - - - - - - 8.5 kms.

Subbase - - - - - - - - - - - - - 8.5 kms.

Base Course - - - - - - - - - - 4.9 kms.

Asphalt - - - - - - - - - - - - - 29,890 sq.m.

B. Feeder Roads

(1) Antipolo-Lupi-San Fernando (401)

Sta. 0 + 000 - Sta. 5 + 136.53

Subgrade - - - - - - - - - - - - - 5.120 kms.

Subbase - - - - - - - - - - - - - 5.0 kms.

(2) Hubo-Baliwag (#402) Sta. 0 + 000 - Sta. 2 + 620.44

Subgrade - - - - - - - - - - - - - 2.62 kms.

Subbase - - - - - - - - - - - - - 2.3 kms.

(3) Hubo-Bagolatao (#403), Sta. 0 + 000 to Sta. 7 + 661.74

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

Subbase - - - - - - - - - - - - - 7.[illegible] kms.

SUMMARY OF PHYSICAL ACCOMPLISHMENTS: (As of September, 1981)

a) Roads

	Secondary Road	Feeder Roads
Subgrade	8.5 kms.	15,388 kms.
Subbase	8.5 kms.	14.20 kms.
Base	4.9 kms.	None
Pavement	29,890 sq.m.	None

*The surfacing of feeder roads will be the subbase itself, Item 108.

b) Bridges

a) Balogo Bridge (2 spans) - sub-structure with superstructure completed.

b) Nata Bridge - (one span) - Substructure and superstructure completed.

c) Timber Trestle (3 spans) - substructure and superstructure completed.

ACTIVITIES DURING THE MONTH (August 26 - Sept. 25, 1981)

Secondary Road

Item 200 - Base Course

Hauling, spreading and compacting on the following Stations: Sta. 0 + 500 - 0 + 700

Item 302 - Medium Cut-back Asphalt, Grade MC for Bituminous Prime Coat.

Delivered - - - 45 metric tons

Applied - - - 44,035 liters

Item 314-1 - Aggregate Materials for BST (Hot Asphalt type)

- 635 cu.m.

Item 314-3 - 85-100 Penetration Asphalt cement for B.S.T (hot Asphalt Type)

Delivered - - - 100 metric tons

Per kilometer - 18.3 metric tons.

Paved - - - 4.9 kms.

Feeder Roads

FR. 401 - Antipolo-Lupi-San Fernando

1. Road maintenance
2. Hauling, spreading and compacting of Item 107 and 108.
3. Construction of Headwalls for RCP's
4. Ditching

FR. 402 - Hubo-Balivag Nuevo

1. Road maintenance
2. Hauling, spreading and compacting of Item 108

3. Construction of headwalls for RCP's.

FR. 403 - Hubo-Bagolatao

1. Road maintenance
2. Re-installation of the two (2) lines of 48"Ø RCP on Sta. 1 + 050.
3. Construction of headwalls for RCP.

SURVEY WORKS

Checking of horizontal and vertical controls, blue-toppings, cross sectioning and placing of Invert Elevations for RCP under supervision by the consultants for both secondary and feeder roads.

MATERIALS

Field Density Tests, grading of materials and other necessary testing of materials were also done by the contractor as before under direct supervision by the consultants on both the secondary and feeder roads.

EQUIPMENT

Equipment of the contractor are also spot-checked by the consultants to see if they are still safe and sound for use in the project.

STATUS OF LABORATORY TESTS

Project: Sub-Project No. 4, Package II, Secondary Road, Minalabac, Camarines Sur

MATERIALS	Total estimated quant.	No. of Tests required	No. of Tests On file	Balance
105: Rdway and Drainage excavation	15,500 cu.m.	D - 52 C,G & P -11	D - 52 C,G& P-11	None None
106: Excav. for structure	700 cu.m.	D - 3 C,G, &P - 1	D - 3 C,G & P-1	None None
107: Common Borrow	102,450cu.m	D-342 C,G, P-69	D-318 C,G&P - 69	D - 24 None
108: Agg. Subbase Course	25,700cu.m.	C - 19 D,G & P-86	C - 17 D,G & P-86	C - 2 G, &P-15
110: Foundation Fill	50.00cu.m.	D - 1 C,G& P - 1	D - 1 C,G & P-1	None None
200: Agg. Base Course	7,500 cu.m.	D - 50 C,G &P-25 Q - 1	D - 21 C,G&P-19 Q - 1 Abrassion Specific Gravity Abrassion	D - 29 C,G&P-6 None
302: Medium curing cut-back asphalt Grade MC. Bit. Prime Coat	51M.T.	Q - 5	Q - 5	None
314-3: 85-100 penet. cement for BST (Hot Aspalt Type)	102 M.T.	Q - 10	Q - 5	Q - 5
402:2.5: Pre-cast Concrete piles	396 L.M.	PTC - 1		PTC - 1
405: Conc.Class "A"	338 cu.m.	#6	#6	None
Cement	4,831 bags	Q-3 or PTC	Q - 3	None
Fine Agg.	294 cu.m.	Q-1; G-4	Q-1, G-1	None
Coarse Agg.	376 cu.m.	Q-1, G-6		None
Water		Cert.	Cert.	None
406: Reinf. Steel	25,765 kgs.	Q-1 ea.size	Q-1 ea.size	None
413: Reinf. Conc. pipes				
0.60M	276 L.M.	IR - 11	IR - 11	
0.90M	96 L.M.	IR - 4	IR - 4	
1.20M	55 L.M.	IR - 3	IR - 3	
500: Grouted riprap	190 cu.m.	IR	-	IR
510: ROW Markers	154 ea.	IR	-	IR

STATUS OF LABORATORY TESTS

Project: Minalabac Feeder #401 - Antipolo-Lupi-San Ferndo

MATERIALS	Total estimated	No. of tests	No. of tests On file	Balance
105: Rdway & Drainage Excavation	13,700cu.m.	D - 50 C,G & P-1	D - 288 C,G &P-7	None
106: Excavation for Structure	530 cu.m.	D - 1 C,G, & P-1	D - 1 C,G & P-1	None
107 Common Borrow	21,020 cu.m.	D - 70		None
108: Agg. subbase Course	7,200 cu.m.	D - 48 C,G,P - 24	D - 52 C,G & P-26	None
110: Foundation Fill	40 cu.m.	D - 1 C,G & P-1	D - 1 C,G&P-1	None
401: Timber Trestle	4 spans	IR	IR	IR
402-2.5: Pre-cast concrete piles	168 L.M.	#1 or PTC	PTC-1	None
402-2.5a: Conc. test	1 ea.	#1 or PTC	-do-	None
413: Reinf. Conc.pipes				
0.60M	6LM	#1 - IR - 1	#1	IR - 1
0.90M	16LM	#1 - IR - 2	#1	IR - 3
1.20M	57LM	#1 - IR - 8	#1	IR - 8
406: Reinf. Steel		0-1 ea. size	0-1 ea.size	None
510: ROW MARKERS	166 ea.	IR	-	IR

Note: Additional field and laboratory tests were conducted for Item 105 due to change (order) in volume form the principal quantity.

STATUS OF LABORATORY TESTS

Project: Sub-Project No. 4, Hubo-Baliwag Road #402

MATERIALS	estimated	No.of test	No. of Tests	
			On file	Balance
106: Excavation for structures	200 cu.m	D - 1 C,G&P - 1	- -	D - 1 C,G & P - 1
107: Common Borrow	23,690 cu.m.	D - 79 C,G&P-16	D - 72 C,G&P - 16	D - 7 None
108: Agg. subbase	3,180cu.m	D - 21 C,G&P -11	D -10 C,G&P-2	D - 11 C,G&P - 9
110: Foundation Fill	20.cu.m.	D - 1 C,G&P -1	-	D - 1 C,G & P - 1
413: Reinf. concrete pipes				
0.60M	38LM	#1,IR-2	# - 1	IR - 2
0.90M	82LM	#2,*IR	# - 2	IR - 4
510: ROW	60 ea.	IR - 1		IR - 1

STATUS OF LABORATORY TESTS

Project: Sub-Project No. 4, #403, Hubo-Bagolatao

MATERIALS	Total estimated quantities	Minimum No. of test req.	No. of tests On file	No. of tests Balance
105: Rdway & Drainage Excavation	74,720cu.m	D - 249 C,G&P - 50	D - 249 C,G&P - 50	None C,G&P-10
106: Excavation for	570 cu.m	D - 2 C,G&P-1	- -	D - 2 CG & P-1
108. Agg. subbase	9,350cu.m	D -62 C,C& P-31	D - 49 C,G P-27	D - 13 C,G &P-4
110: Foundation fill	35 cu.m.	D - 1 C,G&P - 1	- -	D - 1 C,G & P-1
413: Reinf. Concrete pipes				
0.60M	32LM	#1-IR-2	# - 1	#-1-IR-2
0.90M	150 LM	#5-IR-6	# - 2	#-1-IR-6
1.20 M	150 LM	#4-IR-6	# - 3	#-1-IR-6
466: Reinforced Steel		G-1 size	G-1 ea. size	None
510: ROW Markers		IR	-	IR

COMPRESSIVE STRENGTH (Secondary Roads)

Date Sampled	Part of Structures represented	Compressive Strength	REMARKS
1 - 18 - 79	RCP .60"Ø	3440	Satisfactory
- do -	-do-	2870	Failed
-do-	-do-	3070	Satisfactory
1 - 22 - 79	RCP .90"Ø	3232	-do-
-do-	-do-	3241	-do-
-do-	-do-	2561	Failed
2-3-79	RCP .90"Ø	3077	Satisfactory
-do-	-do-	3672	-do-
-do-	-do-	3345	Satisfactory
2-12-79	RCP .60"Ø	4161	-do-
-do-	-do-	3675	-do-
-do-	-do-	3444	-do-
2-21-79	RCP .60"Ø	3907	-do-
-do-	-do-	3703	-do-
-do-	-do-	3553	-do-
3-11-79	RCP .60"Ø	2674	Failed
-do-	-do-	3001	Satisfacotry
-do-	-do-	3271	-do-
7-4-79	RCBC Bottom Slab	4260	Passed
-do-	-do-	3078	-do-
7-9-79	RCBC Sidewall	3078	-do-
-do-	-do-	2494	Failed
-do-	-do-	3016	Passed
-do-	-do-	4882	Passed
7-16-79	Top Slab	3187	Passed
-do-	-do-	2783	Failed*
-do-	Center wall	3825	Passed
-do-	-do-	2581	Failed*
8-31-79	RCBC Sidewall	3895	Passed
-do-	-do-	4447	Passed
9-1-79	-do-	3838	Passed
-do-	-do-	4097	Passed
9-22-79	RCBC Top Slab	3195	Passed
-do-	-do-	3135	Passed
10-18-79	Sidewall	2480	Failed*
-do-	-do-	2534	Failed*
-do-	-do-	3141	Passed
10-25-80	RCBC Top Slab	3281	Passed
-do-	-do-	2728	Failed*
-do-	-do-	3576	Passed
11-8-79	RCP 1.20"Ø	2421	Failed*
11-10-79	-do-	2922	Failed*
11-21-79	-do-	2309	Failed*
11-26-79	RCP .60"Ø	3055	Passed
-do-	-do-	2340	Failed*
-do-	-do-	3506	Passed
-do-	-do-	3397	Passed
11-21-79	RCBC Wingwall	3506	Passed

11-21-79	RCBC Wingwall	4089	Passed
11-26-79	RCBC Apron	2822	Failed*
-do-	-do-	2962	Failed*
11-28-79	RCBC Wingwall	2630	Passed
-do-	-do-	3840	Passed
4-14-80	Pier, Balogo Bridge	3801	Passed compressive
-do-	-do-	3677	strength requi[illegible]l
-do-	-do-	1842	-do-
3-25-80	Coping, Abut. A	3094	-do-
-do-	-do-	3172	-do-
3-31-80	Coping, Abut. B	3545	-do-
-do-	-do-	2814	-do-
3-27-80	Backwall, Abut. A	2387	Failure*
-do-	-do-	1943	Failure*
-do-	-do-	2457	Failure*
4-21-80	Coping, Abut. Mata Bridge		
		2806	Failure*
-do-	-do-	2612	Failed*
-do-	-do-	3055	Failed*
4-22-80	Backwall, Abut.B,Mata BR	2783	Passed compressive
-do-	-do-	3055	strength required
-do-	-do-	3358	-do-
5-3-80	Girder, Balogo Bridge	3529	-do-
-do-	-do-	2861	-do-
-do-	-do-	3327	-do-

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

7-16-79	RCP 36"Ø	4664	Passed
-do-	-do-	4567	Passed
8-17-79	RCP 24"Ø	2736	Failed*
-do-	-do-	2[illegible]94	Failed*
8-18-79	RCP 36"Ø	3763	Passed
-do-	-do-	4555	Passed
8-30-79	-do-	4224	Passed

DRAINAGE & EROSION WORK

Secondary Road (Minalabac-Antipolo-Hubo)

STATION	AS SCHEDULED		ACCOMPLISHED			
	Size	# of pcs.	Size	# of pcs.	# of LM	Headwall
Sta. 0 +450	24"Ø	14	-			w/headwall
Sta. 0 + 600	24"Ø	16	-			
Sta. 0 + 987.02	24"Ø	13	-			
Sta. 1 + 047.67	48"Ø	18	48"Ø	18	18LM	w/headwall
Sta. 1+170.52	48"Ø	18	48"Ø	18	18LM	-do-
Sta. 1+475.00	36"Ø	18	36"Ø	18	17LM	-do-
Sta. 1+875.00	24"Ø	17	36"Ø	17	17LM	-do-
Sta. 2+143.82	24"Ø	18	24"Ø	18	18LM	-do-
Sta. 2+652.12	24"Ø	13	24"Ø	13	13LM	-do-
Sta. 2+853.72	24"Ø	15	24"Ø	15	15LM	-do-
Sta. 2+900.00	24"Ø	14	24"Ø	14	14LM	-do-
Sta. 3+111.44	36"Ø	15	36"Ø	15	15LM	-do-
Sta. 3+389.45	24"Ø	12	24"Ø	12	12LM	-do-
Sta. 3+325.00	-	-	36"Ø	12	12LM	-do-
Sta. 3+787.00	36"Ø	13	-do-	13	13LM	-do-
Sta. 3+910.00	-do-	13	-do-	13	13LM	-do-
Sta. 4+144.13	24"Ø	13	24"Ø	13	13LM	-do-
Sta. 4+369.02	-do-	13	-do-	13	13LM	-do-
Sta. 4+854.15	-	-	-do-	13	13LM	-do-
Sta. 4+925.00	36"Ø	15	36"Ø	15	15LM	-do-
Sta. 5+183.15	-	-	24"Ø	12	12LM	-do-
Sta. 5+225.00	24"Ø	16	24"Ø	16	16LM	-do-
Sta. 6+425.00	24"Ø	15	24"Ø	15	15LM	-do-
Sta. 6+677.00	24"Ø	15	-do-	15	15LM	-do-
Sta. 6+755.30	36"Ø	16	36"Ø	16	16LM	-do-
Sta. 7+250.00	48"Ø	18	48"Ø	18	18LM	-do-
Sta. 8+055.00	24"Ø	14	24"Ø	14	14LM	-do-
Sta. 8+066.00	36"Ø	15	36"Ø	15	15LM	-do-
Sta. 8+072.30	24"Ø	15	24"Ø	15	15LM	-do-
Sta. 8+222.00	24"Ø	13	24"Ø	13	13LM	-do-
Sta. 8+459.00	24"Ø	12	24"Ø	12	12LM	-do-
Sta. 8+650.00	24"Ø	14	24"Ø	14	14LM	-do-

FEEDER ROAD #401 - Antipolo-Lupi-San Fernando

STATION	AS SCHEDULED		ACCOMPLISHED			Headwall
	Size	#of pcs.	Size	#of pcs.	#of pcs.	
0 + 175	24"Ø	12	24"Ø	12	12LM	Completed
0 + 425	36"Ø	11	36"Ø	11	11LM	Completed
0 + 713	48"Ø	34	48"Ø	34-2 lines	24LM	Completed
1 + 075	48"Ø	19	48"Ø	15	19LM	Completed
1 + 357	36"Ø	12	36"Ø	12	12LM	Completed
1 + 850.87	48"Ø	22	48"Ø	22-2 lines	22LM	Completed
2 + 051	36"Ø	12	36"Ø	12	12LM	Completed
2 + 326.60	36"Ø	22	36"Ø	22-2 lines	22LM	Completed
2 + 539.50	48"Ø	10	48"Ø	10	10LM	Completed
2 + 675	48"Ø	30	48"Ø	30-2 lines	30LM	Completed
3 + 055.5	48"Ø	11	48"Ø	11	11LM	Completed
3 + 325	48"Ø	24	48"Ø	24-2 lines	24LM	Completed
3 + 675	48"Ø	24	48"Ø	-do-	24LM	Completed
4 + 848	48"Ø	13	48"Ø	13	13LM	Completed
4 + 087.45	48"Ø	7	48"Ø	7(extended)	7LM	Completed
4 + 244.70	18"Ø	6	18"Ø	6(extended)	6LM	Completed
4 + 590	24"Ø	4	24"Ø	4(extended)	4LM	Completed
4 + 884			18"Ø	8 pcs.	8LM	Not in schedule

FEEDER ROAD #402 - Hubo-Beliwag

STATION	AS SCHEDULED		ACCOMPLISHED			Headwall
	Size	#of pcs.	Size	#of pcs.	#of LM	
0 + 373.80	36"Ø	22	36"Ø	22-2lines	22LM	Completed
0 + 846.30	36"Ø	36	36"Ø	36-3lines	36LM	-do-
0 + 968.00	36"Ø	12	36"Ø	12	12LM	-do-
1 + 202.30	24"Ø	12	24"Ø	12	12LM	-do-
1 + 598.00	24"Ø	12	24"Ø	12	12LM	-do-
1 + 970.10	24"Ø	12	24"Ø	12	12LM	-do-
2 + 125	-	-	24"Ø	12	12LM	-do-
2 + 403.54	Existing 1-30 x 25M RCP to remain					-do-
2 + 323.00	36"Ø	12	36"Ø	12	12LM	-do-
2 + 550.00	24"Ø	14	24"Ø	14	14LM	-do-

FEEDER ROAD #403 - Hubo-Bagolatao

STATION	AS SCHEDULED		ACCOMPLISHED			
	Size	# of pcs.	Size	# of pcs.	#LM	Headwall
0 + 137.00	48"Ø	30	48"Ø	30-2lines	30LM	Completed
0 + 300.00	36"Ø	16	48"Ø	16	16LM	-do-
0 + 506.01	24"Ø	4	D E L E T E D		-	-
0 + 825.00	48"Ø	22	48"Ø	26-2lines,	26LM	Completed
1 + 143.80	48"Ø	24	Re-installed with 2 lines 48"Ø RCP			-do-
1 + 200.00	24"Ø	11	24"Ø	11	11LM	-do-
1 + 400.00	26"Ø	6	36"Ø	6	6LM	-do-
1 + 604.20	36"Ø	12	36"Ø	12	12LM	-do-
1 + 791.34	48"Ø	16	48"Ø	10	10LM	½Completed
1 + 939.00	48"Ø	14	48"Ø	10	10LM bal. 4 pcs.	½ completed
1 + 992.11	36"Ø	12	36"Ø	12	10LM	Completed
4 + 593.63	36"Ø	17	36"Ø	16	16LM	-do-
5 + 097.00	36"Ø	15	36"Ø	14	14LM	-do-
5 + 299.48	24"Ø	11	24"Ø	11	11LM	-do-
5 + 759.68	36"Ø	13	36"Ø	13	13LM	-do-
6 + 050.00	36"Ø	16	D E L E T E D		-	-
6 + 315.00	36"Ø	17	36"Ø	16	16LM	-do-
6 + 523.00	36"Ø	22	36"Ø	22	22LM	completed

WEATHER REPORT
August 26 to Sept. 25'81

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

Date	Weather	Remarks	Time Extension Recommended
Aug. 26	Cloudy to fair	Workable	None
27	Fair	Workable	None
28	Fair	Workable	None
29	Fair	Workable	None
30	Cloudy to fair	Workable	None
31	Fair	Workable	None
Sept. 1	Fair with PM light shower	Workable	None
2	Fair	Workable	Nonr
3	Fair to cloudy	Workable	None
4	Cloudy w/ PM light shower	Workable	None
5	Fair to cloudy	Workable	None
6	Cloudy	Workable	None
7	Cloudy w/ PM light shower	Workable	None
8	Cloudy w/ PM light shower	Workable	None
9	Heavy rain to cloudy	Workable	None
10	Cloudy but grounds still wet	Unworkable	One (1) day
11	Cloudy but grounds still wet	Unworkable	One (1) day
12	AM shower to cloudy	Unworkable	One (1) day
13	Fair to cloudy	Unworkable	One (1) day
14	Cloudy	Workable	None
15	Cloudy to fair	Workable	None
16	Fair w/ PM light shower	Workable	None
17	Rainy to cloudy (Typhoon Rubing)	Workable	None
18	Int. rain	Unworkable	One (1) day
19	Rainy to int. rain	Unworkable	One (1) day
20	Int. rain	Unworkable	One (1) day
21	Cloudy to int. rain	Unworkable	One (1) day
22	Cloudy but grounds still wet	Unworkable	One (1) day
23	Int. rain to fair	Unworkable	One (1) day
24	Cloudy but grounds still wet	Unworkable	One (1) day
25	Cloudy to int. rain	Unworkable	One (1) day

TOTAL EXTENSION OF TIME RECOMMENDED THIS MONTH - - - - 13 days
TOTAL EXTENSION OF TIME RECOMMENDED PREVIOUSLY - - -214 days

GRAND TOTAL - - - - - - - - - - - - - - 227 days

BICOL RIVER BASIN DEVELOPMENT PROJECT
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONTRACTOR POLYTRADE CONSTRUCTION, INC.

FOR THE MONTH OF September, 1981

	ADMINISTRATIVE/ FINANCE	ENGINEERING TECHNICAL	SKILLED	UNSKILLED
MANILA-BASED 1/	2	2	4	
LOCAL-HIRED 2/	9	5	26	13
SUB-CONTRACTORS 3/				
TOTAL	11	7	30	13

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired only

Submitted by:

(SGD) NARDO ESPESO
Project Engineer
MENALABAC-ANTIPOLO-HUBO ROAD PROJECT

POLYTRADE CONSTRUCTION, INC.
Minalabac, Camarines Sur

LIST OF PERSONNEL

Name	Position	Qualification
Perez, Teodoro	Project Manager	Civil Engineer
Espeso, Leonardo	Project Supervisor	-do-
Sauco, Rego	Shop Supervisor	Experienced
Cruz, Nestor	Administrative Officer	B S B A
Manuel Aguila	C.E. Draftsman	Civil Engineer
Perpetuo, Avila	Lab. Technician	Experienced
Reyes, Efren	Comptroller	-do-
Tragante, Frisco	Watchman	-do-
Pellosis, Eduardo	-do-	-do-
Asis, Leoncio	-do-	-do-
Luna, Freddie	Mechanic	-do-
Caisip, Rogelio	-do-	-do-
Leon, Luis de	Lab. Aide	-do-
Adao, Numeriano	Driver	-do-
Balong, Rodelio	-do-	-do-
Balonzo Jolito	BD Operator	-do-
Francisco, Graciano	Loader Operator	-do-

BICOL RIVER BASIN DEVELOPMENT PROJECT
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONTRACTOR GENARO G. REMOS CONSTRUCTION, CO

FOR THE MONTH OF September, 1981

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

1/ Includes permanet employee

2/ Employees residing within the basin area

3/ Local Hired only

Submitted by:

(SGD) ANTONIO BANZON
Project Engineer

GENARO G. REYES CONSTRUCTION

Minalabac, Camarines Sur

LIST OF PERSONNEL

Name	Position	Qualification
Antonio Banzon	Project Manager	Civil Engineer
Jaime Tamundong	Project Engineer	-do-
Marcos Galban	Roadway Foreman	Experienced
Maximo Mendoza	Structural Foreman	-do-
Nenita Avila	Comptroller	-do-
Armando Bidania	Instrument man	-do-
Susan Ovenza	Property Costudian	-do-
Rolando Dacuzan	Survey Aide	-do-
Dominador Sabado	BD Operator	-do-
Leonardo Valentin	BD Operator	-do-
Elpedio Mauricio	Loader Operator	-do-
Macario Lang-ay	Roller Operator	-do-
Bernardo Castillo	Roller Operator	-do-
Jose Canada	Driver	-do-
Ruben Jacobe	-do-	-do-
Ricardo Arevalo	-do-	-do-
Pedro Suyat	Overseer	-do-

Daniel Santiago	Equipment Helper	Experienced
Tacio Bulado	Mechanic	-do-
Wilfredo Ante	-do-	-do-
Felipe Tuason	-do-	-do-
Pedro Renta	Laborer	-do-
Romeo Asada	-do-	-do-
Andres Pendeno	-do-	-do-
Jaime Nupili	-do-	-do-
Faustino Abundio	-do-	-do-

LIST OF HEAVY EQUIPMENT

Secondary Road:

A. Dump Trucks

2 Ford (6-wheeler)

1 Isuzu (6-wheeler)

B. Loader

1 Isuzu Loader

C. Grader

1 unit Caterpillar

D. Rollers

1 Pneumatic Roller

2 Tandems

E. Water truck

1 unit on top of 6 wheeler truck

F. Asphalted Distributor

Feeder Roads:

A. Dump Truck

1 unit 10-wheeler Isuzu

2 units 6-wheeler Isuzu

B. Roller

1 Tandem

1 Pneumatic Roller

C. Loader

1 unit Caterpillar

D. Grader

1 unit Caterpillar

E. 1 unit Caterpillar

LIST OF OFFICE EQUIPMENT

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

LIST OF LABORATORY EQUIPMENT

8 - inch Brass Mesh 4"	1	pc.
8 - inch Brass Mesh 3"	1	pc.
8 - inch Brass Mesh 2"	1	pc.
8 - inch Brass Mesh 1½"	1	pc.
8 - inch Brass Mesh 3/4"	1	pc.
8 - inch Brass Mesh 3/8"	1	pc.
8 - inch Brass Mesh No. 8	1	pc.
8 - inch Brass Mesh No. 18	1	pc.
8 - inch Brass Mesh No. 16	1	pc.
8 - inch Brass Mesh No. 30	1	pc.
8 - inch Brass Mesh No. 40	1	pcp
8 - inch Brass Mesh No. 50	1	pc.

8 - inch Brass Mesh No. 60	1	pc.
8 - inch Brass Mesh No. 100	1	pc.
8 - inch Brass Mesh No. 200	1	pc.
Sample Splitter 2½ Chute width	1	set
Heavy duty solution Balance 20 kg. cap change M-1119D	1	set
Tripple Beam balance 0.1 sea	1	set
Volumetric Flash 500 ml.	1	set
Liquid Limit Device/grooving tool	1	set
Plastic Limit	1	set
Centrogram balance 0.01 sea.	1	set
Rectangular pan 4" x 4" x 10"	1	pc.
Square pan 24" x 24"	1	pc.
Modified Compaction Mold 1/13.33	1	pc.
Modified Compaction Hammer 5.5 lbs.	1	pc.
Wash Bottle 1000 ml.	1	pc.
Field Density Set	1	pc.
Fieild Bucket	1	pc.
Oven, Electric Memmert %760190	1	unit
Harvard Trip Balance Ohause	1	set
8 - inch Brass Sieve No. 4	1	unit
Spring Balance 12 kilos Cap.	1	unit
Compaction Mold 1/10 cu.ft.	1	set

Frying Pan 18" x 18"	6	pcs.
Wire Basket	1	pc.
Cylinder Mold	2	pcs.
8 - inch Sieve Brass Pan	1	pc.
8 - inch Pan Brass Cover w/ ring	1	pc.
Slump cone w/ tampering rod	1	pc.
Work table, 1.20 x 2.40m	1	ea.
Simple wooden chair	5	pcs.
Corenter w/ G.I. sink	1	set
Wooden filing cabinet	1	ea.
Stapler	1	ea.
Puncher	1	ea.

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

TENTATIVE EXPIRY DATE 1st. Revision: MARCH 15, 1981

SECOND REVISION: NOVEMBER 26, 1980

2

FEBRUARY 7, 1979
START OF CONTRACT TIME

ESTIMATED % WEIGHT			QUANTITY	UNIT COST	AMOUNT	
SCHEDULED	ACCOMPLISHED PROJECT	ACCOMPLISHED ITEM				
0.29910	0.29910	100	18 mos.	2,400.00	43,200.00	✓
0.49850	0.49850	100		Lump Sum	72,000.00	
0.22156	0.22155	100		Lump Sum	32,000.00	
0.49850	0.49850	100		Lump Sum	72,000.00	
0.86614	0.86614	100	27.8 Has.	4,500.00	125,100.00	✓
0.01765	0.01765	100	1 each	2,550.00	2,550.00	
2.14633	2.14633	100	15,500 cu.m.	20.00	310,000.00	
2.17845	2.17845	100	16,560 cu.m.	19.00	314,640.00	
9.25885	9.25885	100	83,580 cu.m.	16.00	1,337,280.00	
2.99944	2.99944	100	16,534.37c.m.	26.201	433,217.00	✓
0.13290	0.13290	100	770 cu.m.	24.93	19,196.10	
0.19801	0.17625	89.00	1,300 cu.m.	22.00	28,600.00	
31.47323	31.47323	100	142,055 cu.m.	32.00	4,545,760.00	
11.80213	11.68411	99	54,635 cu.m.	31.20	1,704,612.00	
10.83831	10.70629	98.60	27,782 cu.m.	56.45	1,568,293.90	
7.37659	7.24381	98.20	19,730 cu.m.	54.00	1,065,420.00	
0.05019	0.04744	94.50	145 cu.m.	50.00	7,250.00	
0.04579	0.04580	100	22,050 sta.m.	0.30	6,615.00	
3.24545	2.94524	90.75	7,500 cu.m.	62.50	468,750.00	
0.84745	0.76901	90.75	51 M.T.	2,400.00	122,400.00	
0.48460	0.43981	90.75	700 cu.m.	100.00	70,000.00	
1.69490	1.53812	90.75	102 M.T.	2,400.00	244,800.00	
0.33233	0.24925	75	4 SPANS	12,000.00	46,000.00	
1.94665	1.76968	90.91	396 L.M.	710.00	281,160.00	
0.37388	0.37387	100	4 each	13,500.00	54,000.00	
0.07446	0.07446	100	71.70 L.M.	150.00	10,755.00	
2.53425	2.53425	100	487 cu.m.	690.00	336,030.00	
0.88027	0.88027	100	163 cu.m.	780.00	127,140.00	
0.07202	0.05834	81.00	14 cu.m.	743.00	10,402.00	
1.21304	1.21302	99.99	25,765 kgs.	6.80	175,202.00	
0.18653	0.17344	92.00	3,890 kgs	7.00	27,230.00	
0.03222	-	-	29 L.M.	160.00	4,640.00	
0.00582	0.00582	100	6 L.M.	140.00	840.00	
0.86469	0.81454	94.20	362 L.M.	345.00	124,890.00	
0.41209	0.63103	72.98	96 L.M.	620.00	59,520.00	
1.22058	1.05822	86.59	289 L.M.	610.00	176,290.00	
2.36165	2.31442	98.00	379 L.M.	900.00	341,100.00	
0.19732	0.19732	100	190 cu.m.	150.00	28,500.00	
0.30375	0.22066	72.65	914 L.M.	48.00	43,872.00	

98.75 % as of Sept. 25, 1981

₱14,443,254.20

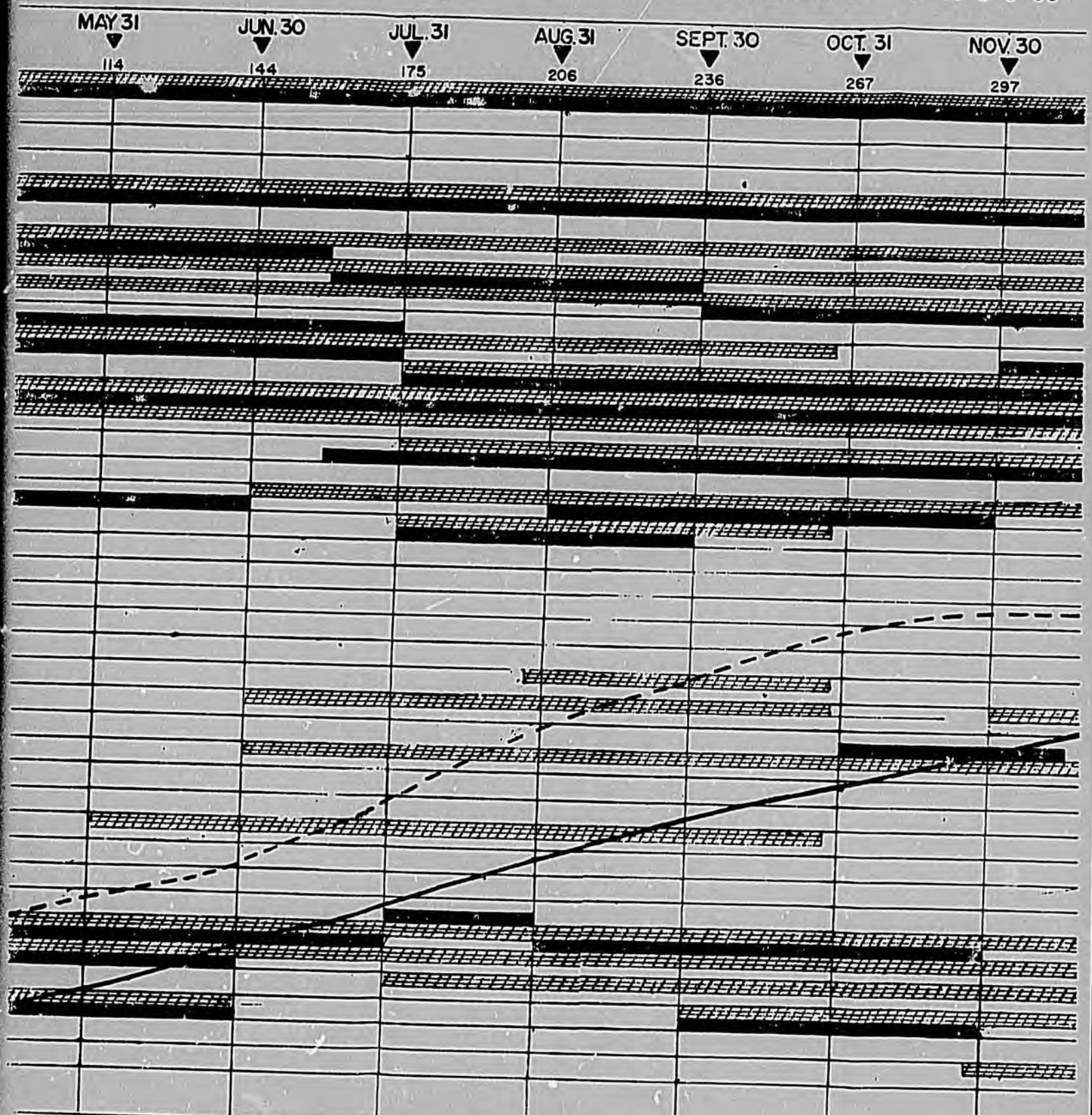
MONTHLY ACCOMPLISHMENT

210,

CUMULATIVE TOTAL AMOUNT

3

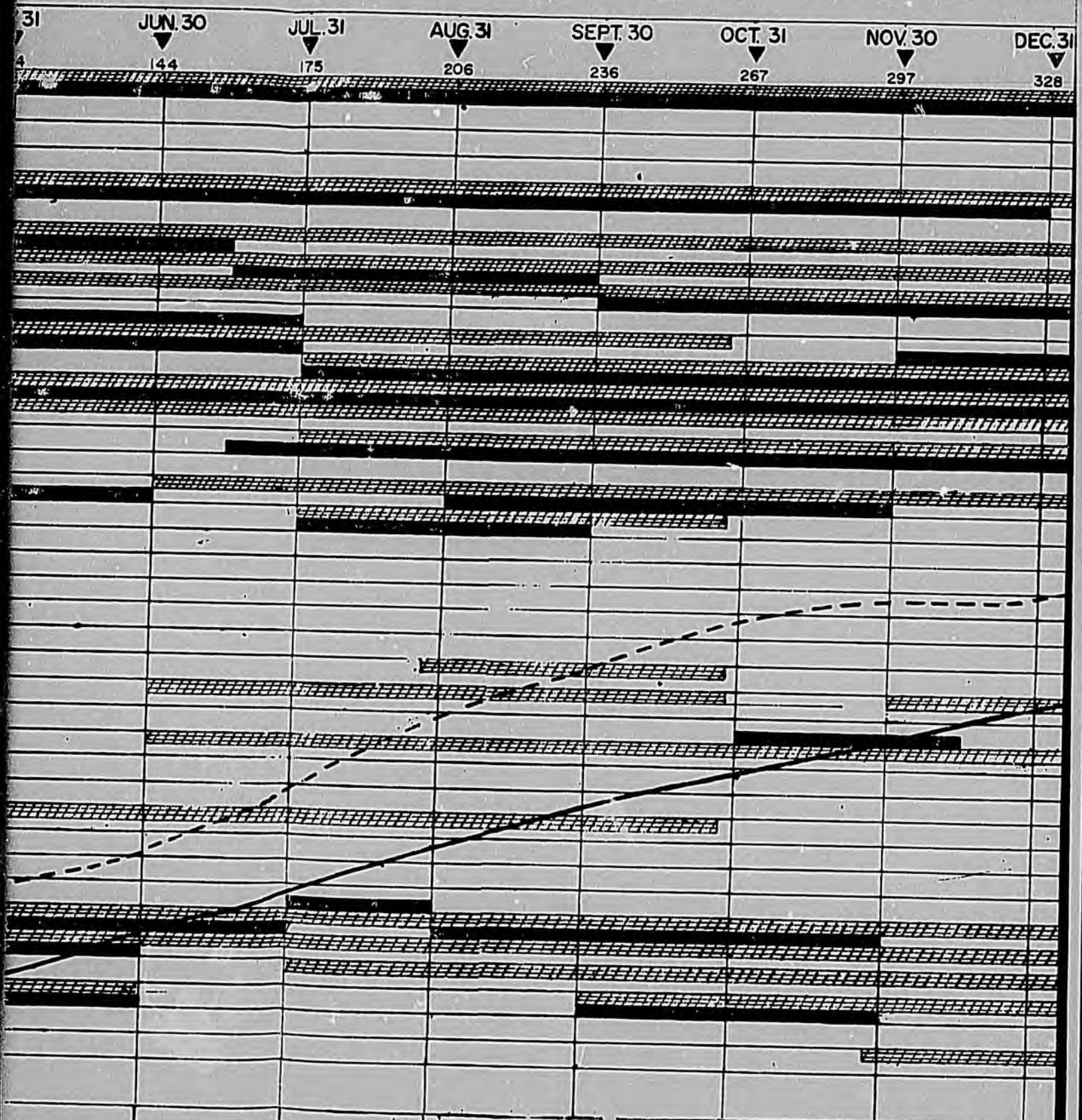
OF MINALABAC-ANTIP



5.52	538,831.99	543,417.62	507,585.25	520,904.86	578,940.08	581,300.89	530,10
9.79	2,089,951.78	2,633,369.40	3,140,954.65	3,661,859.51	4,240,799.59	4,822,100.48	5,352,20

4

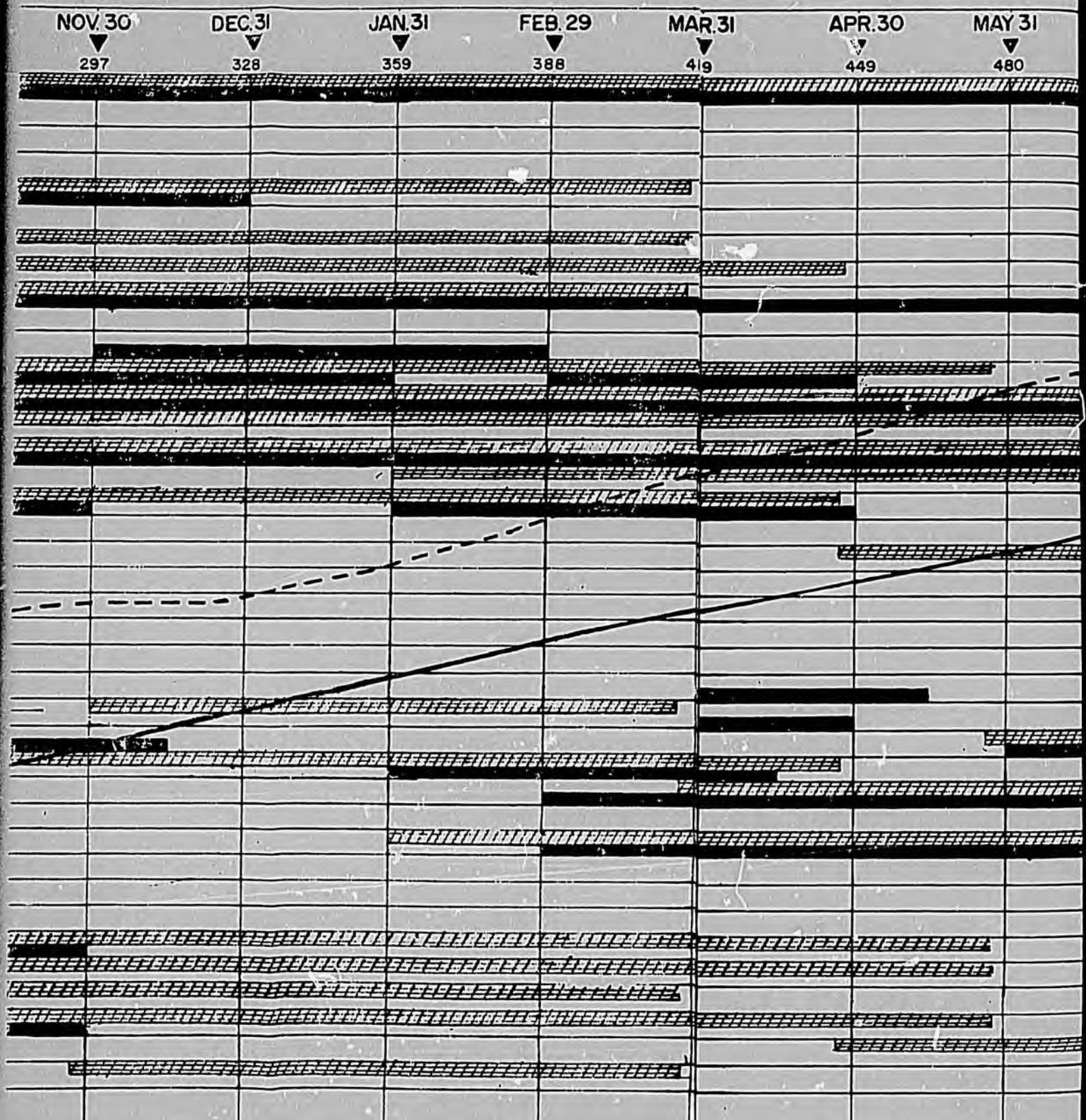
OF
MINALABAC- ANTIPOLO



538,831.99	543,417.62	507,585.25	520,904.86	578,940.08	581,300.89	530,105.72	5
,089,951.78	2,633,369.40	3,140,954.65	3,661,859.51	4,240,799.59	4,822,100.48	5,352,206.26	5,8

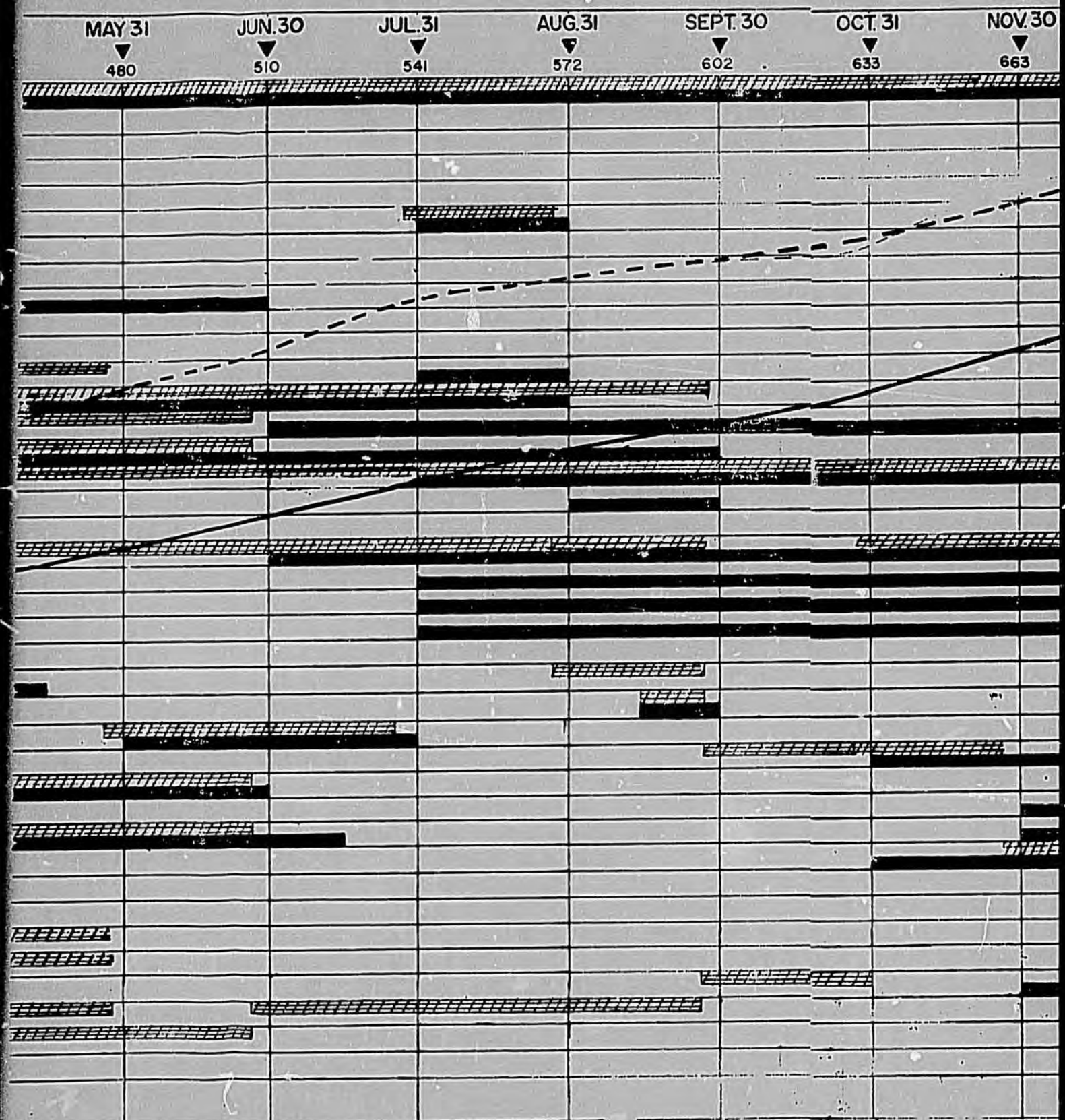
5

OF
ANTIPOLO-HUBO ROAD



00.89	530,105 78	516,334.39	574,863.13	628,085.24	820,997.64	656,874.10	566,1
00.48	5,352,206.26	5,868,540.65	6,443,423.78	7,071,509.02	7,892,506.66	8,549,380.76	9,115,5

6



556,874.10	566,179.54	627,688.24	745,402.37	504,678.34	379,024.24	447,968.22	52
,549,380.76	9,115,560.30	9,743,248.54	10,488,650.91	10,993,329.25	11,372,353.49	11,820,321.71	12,

PREVIOUS ACCOMPLISHMENT

PROGRESS THIS REPORT

SCHEDULED WORK

SCHEDULED ACCOMPLISHMENT

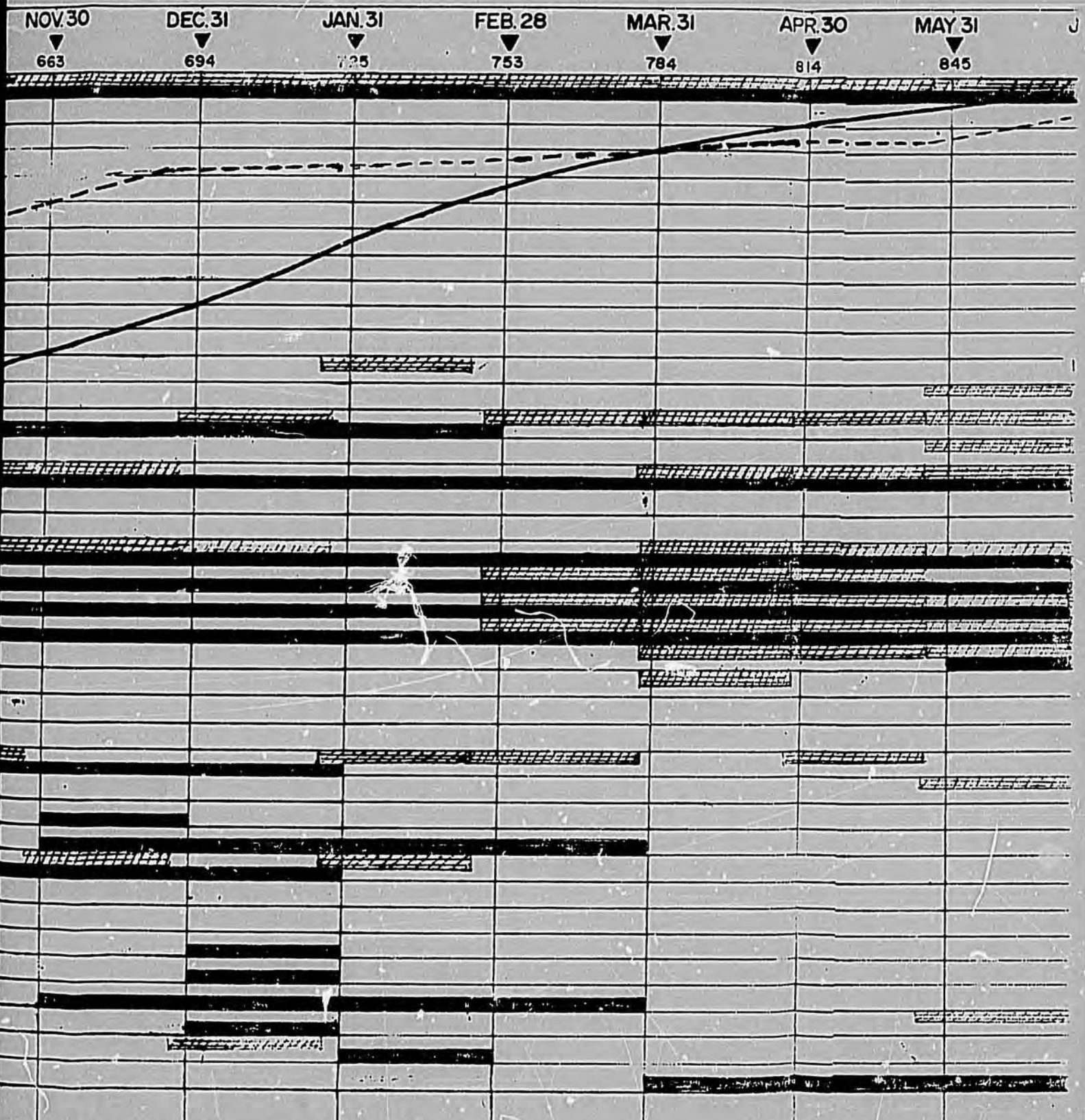
ACTUAL ACCOMPLISHMENT

7

RESET TENTATIV

AUGUST 5,

TENTATIVE EXPIR



.22	524,283.76	596,512.44	468,521.82	247,171.20	195,881.66	197,110.70	161,881.66
21.71	12,344,605.47	12,941,117.91	13,409,639.53	13,656,810.73	13,852,692.39	14,049,803.09	14,211,684

SCHEDULED WORK

SCHEDULED ACCOMPLISHMENT

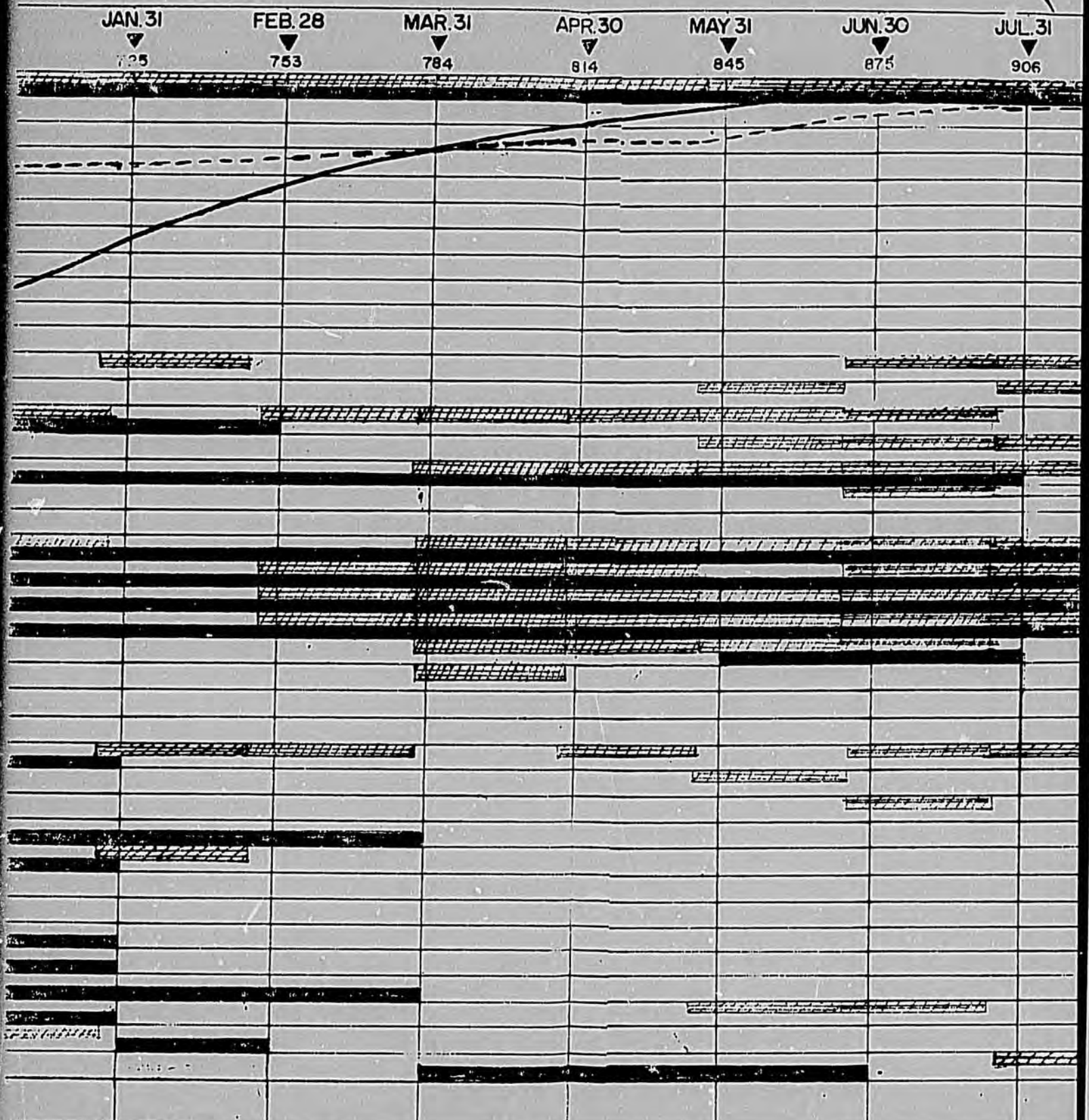
ACTUAL ACCOMPLISHMENT

8

RESET TENTATIVE EXPIRY DATE TO

AUGUST 5, 1981

TENTATIVE EXPIRY DATE 2nd Revision

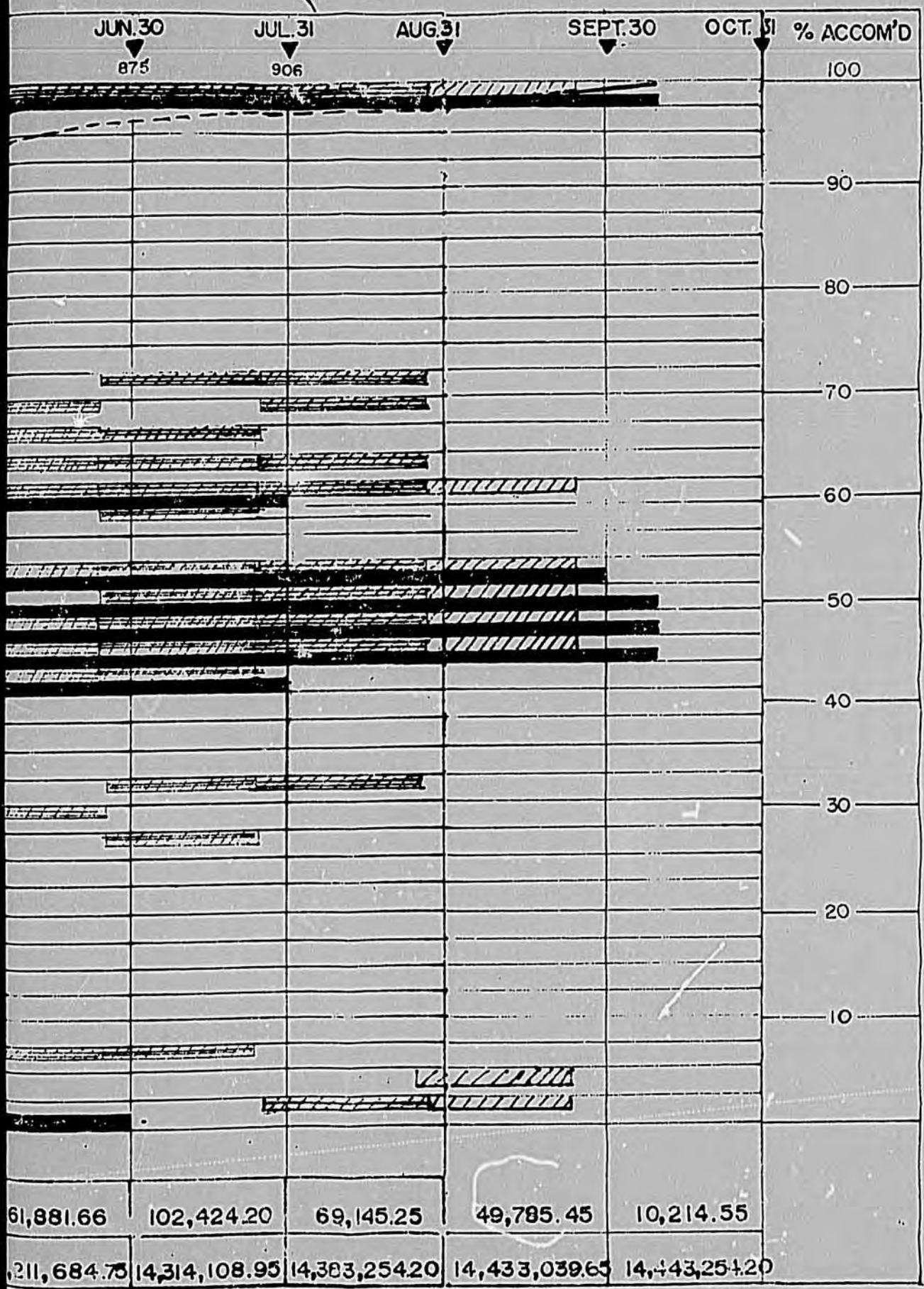


96,512.44	468,521.62	247,171.20	195,881.66	197,110.70	161,881.66	102,424.20	69
941,117.91	13,409,639.53	13,656,810.73	13,852,692.39	14,049,803.09	14,211,684.75	14,314,108.95	14,383

TENTATIVE EXPIRY DATE TO OCTOBER 10, 1981

9

UGUST 5, 1981
VE EXPIRY DATE 2nd Revision



BICOL RIVER BA
(ROA

MANPOWER SCHEDULE OF CONSULT
PA

NAMES	POSITION	1	2	3	4	5	6	7	8	9	1(
		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NO
AMADO E. BANDELARIA	DEPUTY PROJECT MGR.										
E.C. FORTALEZA	SR. HIGHWAY ENGINEER *										
	SR. BRIDGE ENGR. / R.E.										
	SR. LOC. ENGR.										
J. A. TORRALBA	SR. MATLS ENGR / R.E.										
F. C. ROSALES	ADM. OFFICER										
L. P. JOSE	CLERK TYPIST										
T. S. SABABAN	MES'R JANITOR										

1979

SUB-PROJECT NO. 4,

J. A. TORRALBA	SR. MATLS ENGR. / R.E.										
R. R. REFE	ENGR. INSP. (HWY.)										
	ENGR. INSP. (BRIDGE)										
R. MARALIT	MATLS ENGR.										
ARTURO E. BANDELARIA	SURVEYOR / DRAFTSMAN										
A. M. ABUGA	LAB. TECHNICIAN										
M. L. SANTIANO	CLERK / TYPIST										
G. LABUTAP	JANITOR / MESSENGER										
R. M. ABANTE	LABORER										

(INCLUDE

* EFFECTIVE OCTOBER 16, 1980

2

BICOL RIVER BASIN DEVELOPMENT PROJECT
(ROAD COMPONENTS)

SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVIS

PACKAGE II

	1979											1980						
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV

SUB

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

(INCLUDED IN KEY STAFF)

SUB

EVELOPMENT PROJECT
PONENTS)

STAFF FOR CONSTRUCTION SUPERVISION

E II

1980												1981								
2	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MEN
N	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG.	MONTHS
																				31
																				31
																				30
																				30
																				31
																				31
																				31
																				31
SUB-TOTAL																				246

ABAC-ANTIPOLO-HUBO ROAD

N		KEY		STAFF)																31
																				31
																				18
																				31
																				31
																				31
																				31
																				31
																				31
SUB-TOTAL																				266

Bicol River Basin Development Project

Secondary and Feeder Road

PACKAGE II

MONTHLY CONSTRUCTION
REPORT
No. 36

Pili-Mataoroc Road Project # 5

Prepared By:

DANILO V. FILIO
Actg. Resident Engr.

Submitted By:

AMADO E. BANDELARIA
Deputy Project Manager

PROGRESS REPORT NO. 36

September, 1981

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

I. GENERAL

This project consists of the construction of the following:

1. Secondary Road - 8.988 kms., from sta. 0 + 000 to sta. 9 + 1440.70. This road begins from the end of the 2 kms. concrete road intersecting with the Manila South Road at about ½ km. from Pili, going to Naga. Its end is at Baliwag Viejo, Minalabac Camarines Sur, a barrio dependent in water transportation via Bicol River before this project came to reality. As per plan, the entire Secondary Road shall be asphalted with 6.10 meters wide pavement. Drainage structures consist of RCP's of different sizes at different stations, one (1) span 10m RCDG at sta. 3 + 398.71 and 4-0.80 x 0.80 m RCBC's.

2. Mataoroc-Manapao-Baliwag, Feeder Road 501 - 7.135 kms., from sta. 0 + 003.05 to sta. 7 + 246.63. The beginning of the project is at sta. 1 + 950 of the Secondary Road and ends at the end of same Secondary Road. A gravel road surface 4.00m wide width 1.00m shoulders is to be done which traverses mostly ricefields. This feeder

road has the most number of drainage structures which consist of RCP's of different sizes at different stations, two-three span; one (1) single span and one-17 span timber trestle bridges.

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

4. Manapao-Malitbog, Feeder Road 503 - 1.518 kms., from sta. 0 + 077 to sta. 1 + 594.75 with its beginning at sta. 3 + 884 of Feeder Road 501 and is the only road that does not join with another road project although its end is adjacent to one. A gravel road surface 4.00m wide with 1.00m shoulders is to be constructed which passes through ricefields. Drainage structures consist of RCP's of different sizes at different stations and 1-0.80 x 0.80m and 2.10 RCBC's.

5. San Jose-San Ramon, Feeder Road 504 - 1.961 kms., from sta. 0 + 114.09 to sta. 1 + 998.27 with its beginning at sta. 6 + 710 at the Secondary Road and ends at Barrio San Ramon, Bula, Camarines Sur, joining with another Road Project. A gravel road surface 4.00m wide with

1.00m shoulders is to be constructed which also passes through ricefields. Drainage structures consist of RCP's of different sizes at different stations, 1-0.80 x 0.80 RCBC and 1-2 span timber trestle bridge.

II. PROGRESS

The request of A.B. Aguinaldo Const., Inc. for the termination of Pili-Mataoroc Road Project, after having been favorably indorsed by the consultant and the PMO, Naga City, was approved without prejudice on the part of the contractor, last July 8, 1981.

The necessary papers needed for bidding or negotiation were already submitted to the MPH. Based on reliable information, the negotiation with ARMS Contractors for the construction of the remaining items of work is now being processed at the Ministry of Public Highways, Central Office.

Road	% Accomplished to Date
Secondary Road	45.31
Mataoroc-Manapao-Baliwag, Fr. 501. . .	32.11
Manapao-San Isidro, Fr. 502	5.94
Manapao-Malitbog, Fr. 503	5.11
San Jose-San Ramon Fr. 504	4.75

III. SUMMARY OF PHYSICAL ACCOMPLISHMENT TO DATE

a. Roads	Secondary Road	Feeder Road
Subgrade	8.988 km	12.263 km
Subbase	8.200 km	9.538 km
Base	5.365 km	None
Surfacing	None	None

b. Bridges		
Substructure	10 LM RC	180 LM RC
Superstructure	10 LM RCDG	108 LM TbTe

BICOL RIVER BASIN
(ROAD
MANPOWER OF CONSULTANTS

		1978								
		1	2	3	4	5	6	7	8	
		A	S	O	N	D	J	F	M	A
A.E. BANDELARIA	DEPUTY PROJ. MANAGER									
E.C. FORTALEZA	SR. HIGHWAY ENGINEER									
	SR. BRIDGE ENGINEER									
	SR. LOC. ENGINEER									
J.A. TORRALBA	SR. MATLS. ENGINEER									
F.C. ROSALES	ADM. OFFICER									
LYDIA P. JOSE	CLERK/TYPIST									
T.S. SABABAN	JANITOR/MESSENGER									
										SU
E.F. CUISON	SR. HIGHWAY ENGINEER R/E									
M.B. DELFIN	MATERIALS ENGINEER									
D.V. FILIO	ENGR. INSPECTOR (HWY)									
E.L. REYES	ENGR. INSPECTOR (BR.)									
A.P. ESPAÑO	SURVEYOR-DRAFTSMAN									
F.V. YBAROLA	LABORATORY TECH.									
P.V. ALVAREZ	CLERK-TYPIST									
L.I. VILLAREY	JANITOR-MESSENGER									
S.B. JEREMIAS	LABORER									

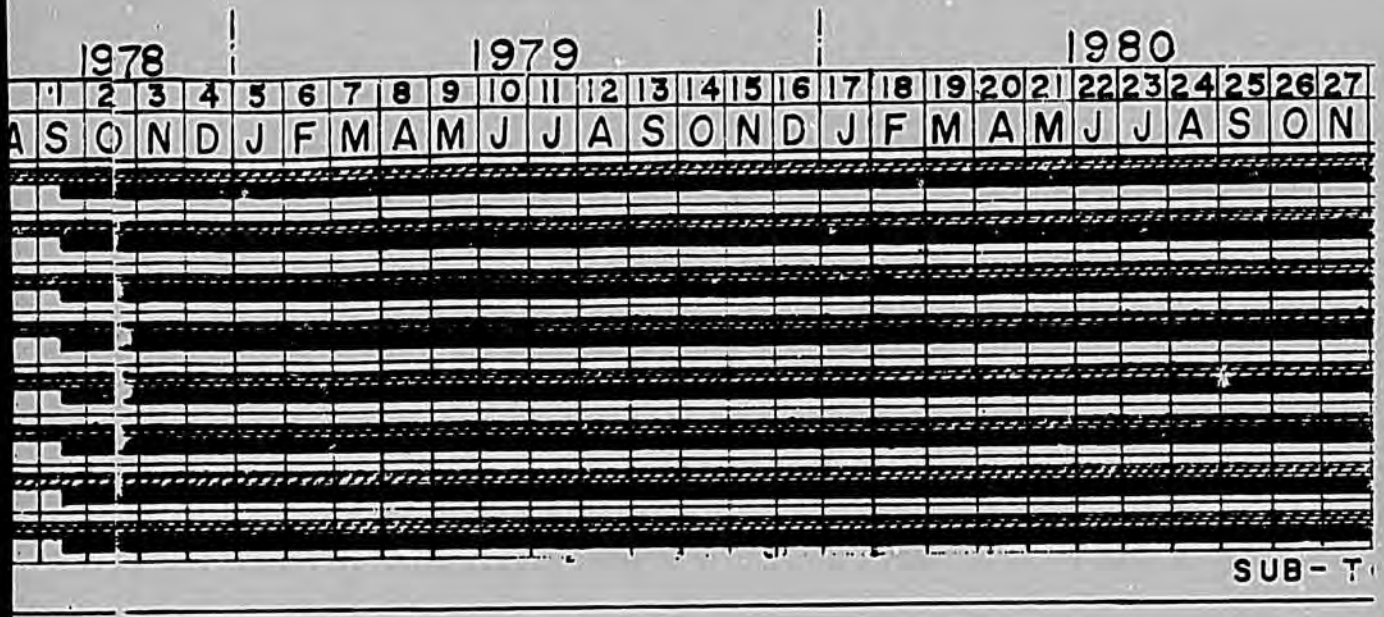
2

L RIVER BASIN DEVELOPMENT PROJECT

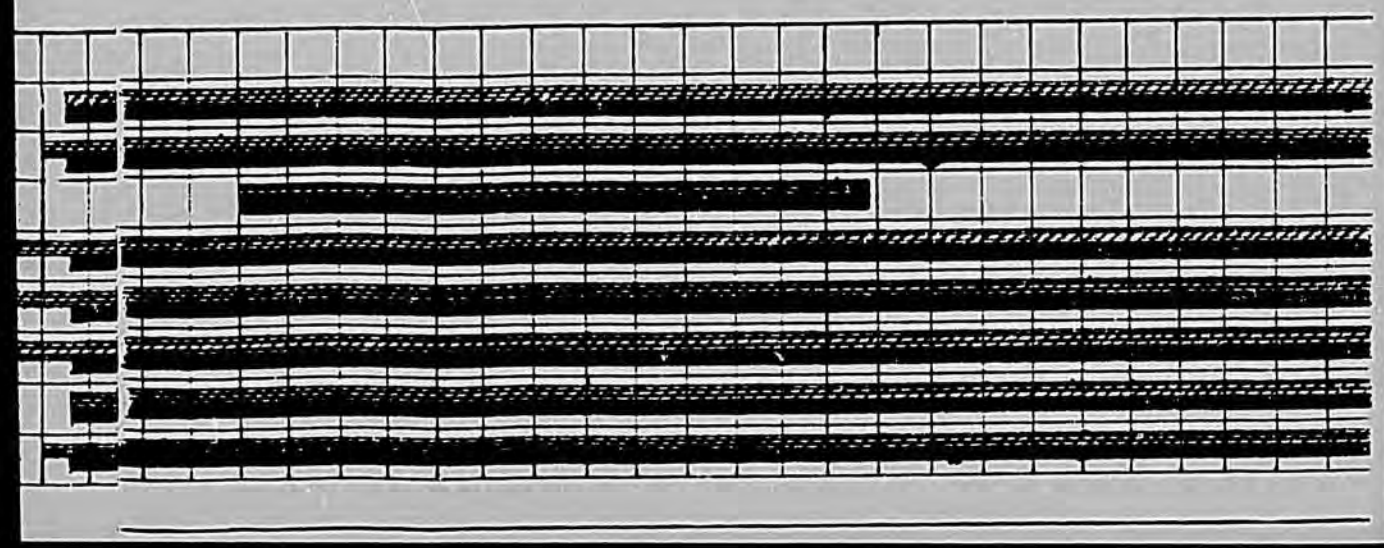
(ROAD COMPONENTS)

OF CONSULTANTS STAFF FOR CONSTRUCTION SUPERVIS

PACKAGE II



SUB PROJECT No.5, PILI- MATAOROC ROAD



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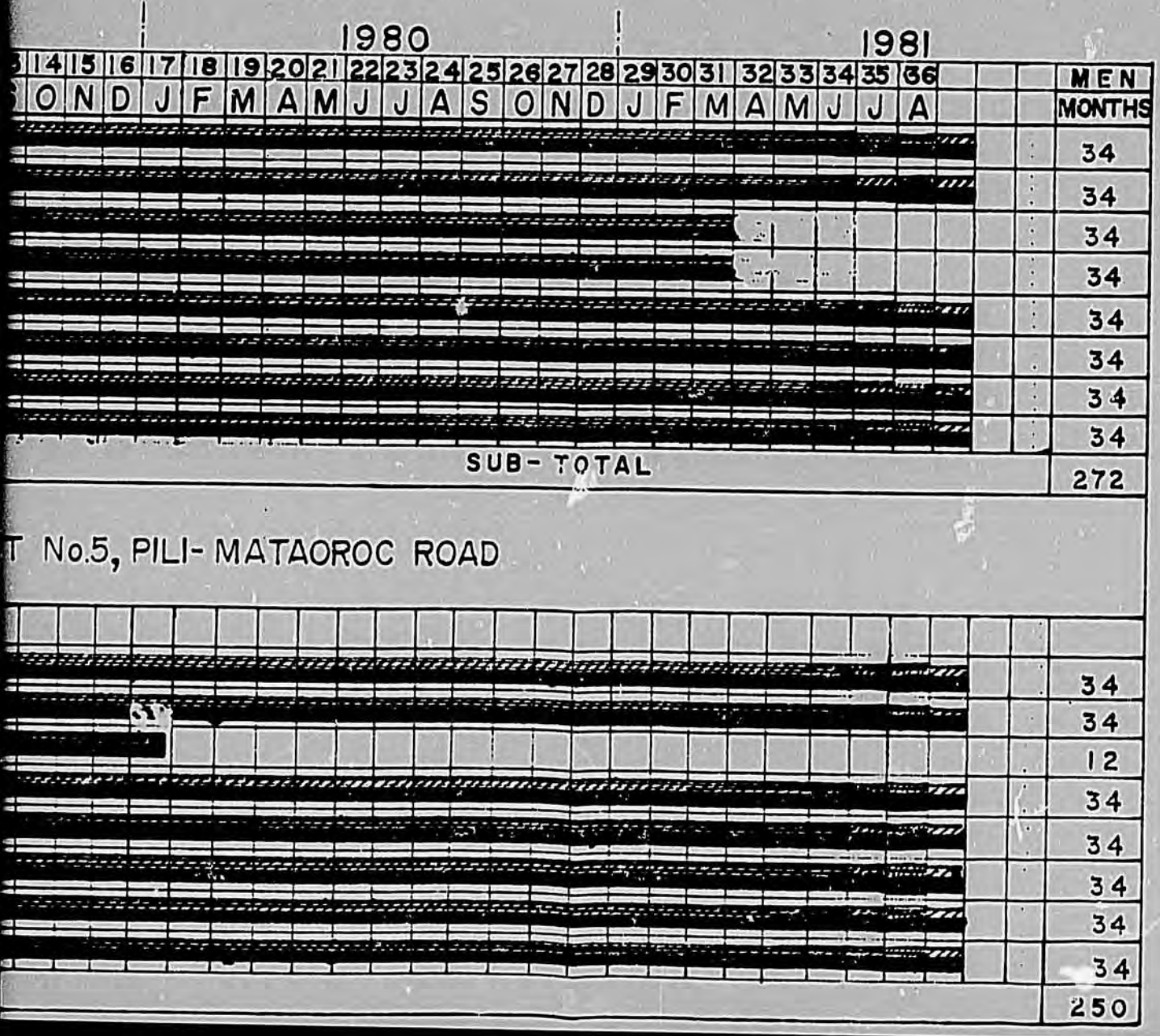
LOPMENT PROJECT
ENTS)
FOR CONSTRUCTION SUPERVISION
II



Bicol River Basin Development Projects

Secondary and Feeder Road

PACKAGE II

MONTHLY CONSTRUCTION REPORT

No. 23

Palistina-San Antonio-Minalabac Ro ad Project

Sub-Project No. 6

Prepared By:

VICENTE B. ZAÑO
Resident Engineer

Submitted By:

AMADO E. BANDELARIA
Deputy Project Manager

PROGRESS REPORT NO. 22
August, 1981

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

1. GENERAL

This project under construction, consist of national Secondary road and one Feeder Road. The length of the nationalmsecondary road is 8.121681 kilometers and the first 4.25 kilometers of which will be paved with Double Bituminous Surface Treatment (DBST), Item 314, the rest being gravel base surface Item 108, together with the feeder road which has length of 5.14754 kilometers.

As to its location the secondary road lies in between Naga City and Pili extending from Palistina passing through San Antonio, Maydaso and ending at Bicol River. A bridge spanning the Bicol River will enable an easy access to Minalabac town proper. The feeder road, will serve the barangays of Maydaso, Taririk, Malitbog and Baras, thus forming a loop from Maydaso to the end of Secondary Road.

The secondary and feeder road has a 6.00 meters and 4.00 meters roadway respectively with shoulders at 1.00 meter on both sides.

Drainage structures on the secondary road consist of RCP's different stations and one three span RCDG bridge (Sta. 5 + 201.7- Sta. 5 + 232.3) over Malitbog creek. On the feeder road, drainage structures consist of seven (7) spans over

Taririk creek and another timber trestle of three (3) spans over Baras creek.

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

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

Accomplishment during the first quarter of the year, which coincides with the first harvest season proves to be of great help to both farmers and dwellers of the place. Transportation cost of farm products were greatly minimized.

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

2. PROGRESS

Work activities were mostly concentrated on the secondary road at Sta. 0 + 000 to sta. 5 + 200. Hereunder are the activities on the secondary road.

1. Hauling, spreading and compacting with common borrow (Item107) from Sta. 2 + 900 to Sta. 5 + 200.
2. Subbase materials (Item 108) continued hauling on various sections of the roads, even during rainy days as long as their quarry, is accessible.
3. Extensions with single barrel (RCBC) was completed 1.60 m x 1.00 m x 5 m length left lane sta. 2 + 681.93.
4. Construction of hand laid rock embankment (Item 501) is in progress, Sta. 3 + 562 to Sta. 3 + 612.
5. Checking and restating with elevation for Item 107 and 104 were undertaken by the survey team of the construction. Also placing with elevation for hand laid rock embankment (Item 501).

   Preparation of coconut piles and formwork for detour bridges and pile driving.

A. SECONDARY

1. Earthwork Sub-grade (Item 107)

   a. Sta. 2 + 900 to Sta. 3 + 800

   b. Sta. 4 + 650 to Sta. 3 + 100

2. Aggregate Subbase (Item 108)

a. Sta. 0 + 000 to Sta. 0 + 100

b. Sta. 0 + 300 to Sta. 0 + 450

3. Structures

a. Construction of hand laid rock embankment is in progress.

b. Extension with single barrel (RCBC) was completed 1.60 m x 1.00 x 3 m length left lane Sta. 2 + 681.93

4. Survey

Checking and restating of elevation for Item 107 and 108, also placing with elevation for hand laid rock embankment (Item 501) Sta. 3 + 562 to Sta. 612.

SUMMARY OF PHYSICAL ACCOMPLISHMENT

Road	% Accomplished to Date
Secondary	2.7
Feeder	0.0
T o t a l	2.7

Materials Testing and Control

Tabulated herebelow are the various tests performed for the project.

Palistina-San Antonio -Minalabac Road
Secondary Road

ITEM	KIND OF TEST	Prev. Mo.	This Mo.	Total	Remarks
105	Grading	8	0	8	Along ROW
	PL & LL	8	0	8	"
	Compaction	16	0	16	"
	Field Density	35	0	35	"
105-4	Grading	14	0	14	"
	PL & LL	14	0	14	"
	Compaction	14	0	14	"
	Field Density	20	0	20	"
106	Grading	2	0	2	"
	PL & LL	2	0	2	"
	Compaction	2	0	2	"
	Field Density	3	0	3	"
107	Grading	52	1	53	San Juan Quarry
	PL & LL	52	1	53	"
	Soil Class.	24	1	25	"
	Compaction	24	1	25	"
	Field Density	131	1	132	"
108	Grading	53	1	54	Victoria Quarry
	PL & LL	53	1	54	"
	Compaction	19	1	20	"
	Field Density	58	1	59	"
110	Grading	2	1	3	"
	PL & LL	2	1	3	"
	Compaction	2	1	3	"
	Field Density	3	1	4	"
405	Grading	0	1	1	"
	Coarse & Fine Aggregate Design Mix	0	1	1	"

Maydasc-Taririk-Malitbog-Baras Road
Feeder Road

105	Grading	2	0	2	Along right of way
	PL & LL	2	0	2	"
	Compaction	2	0	2	"
	Field Density	2	0	2	"
105-4	Grading	2	0	2	"
	PL & LL	2	0	2	"
	Compaction	2	0	2	"
	Field Density	2	0	2	"
	Soil class.	2	0	2	"
106	Grading	1	0	1	Along right of way
	PL & LL	1	0	1	"
	Compaction	1	0	1	"
	Field Density	2	0	2	"
107	Grading	17	0	17	Maydasc Quarry
	PL & LL	17	0	17	"
	Compaction	5	0	5	"
	Field Density	17	0	17	"
	Soil Class.	12	0	12	"

COMMENTS AND RECOMMENDATIONS:

As of this cut off date, 25th of September, the contract document for the construction of Palistina-Minalabac Road, Sub-Project No. 6, is not yet approved in Manila. The contractor is proceeding in their construction under their own risk. However, the work is progressing fair enough. With the present number of hauling equipments in the project, five dump truck, one bulldozer, one loader, one grader and one road roller, hauling of item 107 for the construction of embankment is going on so of item 108.

Construction of extension of concrete box culvert at sta. 2+ 681.93 and headwalls of RCPC along the secondary road is going on. Materials for falsework for the construction of RCDG over Malitbog creek are already in the bridge site. The following are expected to be delivered soon: the crane; Delmag; and the concrete piles from Manila.

The contractor has also informed the consultant that some of the equipment are ready for shipment to the project site.

WEATHER REPORT

As of September, 1981

Date	Weather	Remarks	Time Extension Recommended
August			
26	Sunny	Workable	None
27	Fair	Workable	None
28	Fair	Workable	None
29	Fair	Workable	None
30	Fair	Workable	None
31	Fair	Workable	None
September			
1	Fair	Workable	None
2	Fair	Workable	None
3	Fair	Workable	None
4	Fair	Workable	None
5	Fair	Workable	None
6	Fair	Workable	None
7	Fair to cloudy	Workable	None
8	Fair	Workable	None
9	Fair	Workable	None
10	Fair	Workable	None
11	Fair	Workable	None
12	Fair	Workable	None
13	Fair	Workable	None
14	Fair	Workable	None
15	Fair	Workable	None
16	Fair	Workable	None
17	Rainy Signal No. 1(Typhoon Rubing)	Unworkable	One (1) day
18	Stormy Signal No. 1 (Typhoon Rubing)	Unworkable	One (1) day
19	Rainy and stormy signal no.2 (Typhoon Rubing)	Unworkable	One (1) day
20	Rainy	Unworkable	One (1) day
21	Fair	Workable	None
22	Fair in the a.m. scattered shower in p.m.	Workable	None
23	Fair	Workable	None
24	Fair	Workable	None
25	Rainy signal no.1 (Typhoon Saling)	Unworkable	None

BICOL RIVER BASIN DEVELOPMENT PROJECT

San Jose, Tili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONTRACTOR SOUTH MOTORIST'S ENTERPRISE

FOR THE MONTH OF September, 1981

	ADMINISTRATIVE FINANCE	ENGINEERING TECHNICAL	SKILLED	UNSKILLED
MANILA-BASED 1/	1	5	16	7
LOCAL-HIRED 2/		2	5	22
SUB-CONTRACTOR 3/			-	
T O T A L	1	7	21	29

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

SUBMITTED BY:

(SGD) EFREN P. MORANTE
SME Construction Manager

SOUTH MOTORISTS ENTERPRISE
MAYDASO, MILAOR, CAMARINES SUR

LIST OF PERSONNEL

NAME	POSITION
1. Efren P. Morante	Construction Manager
2. Francisco P. Eusebio	Mechanical Engineer
3. Renato O. Magisa	Project Engineer
4. Bernardo H. Tejada	Hvy. Equipt. & Operation Head
5. Ricardo R. Reyes	Accountant
6. Cirico Baduya	Equipment Supervisor
7. Jaime Tosoc	Instrument Man
8. Domingo Salvador	Hvy. Equipt. & Trucking Head
9. Juanito Forteria	Bridge Foreman
10. Eduardo Trajico	Roadway Foreman
11 Andres Logarto	Dozer Operator
12. Willy Dangalan	Grader Operator
13. Moises Gavina	Grader Operator
14. Alberto Narral	Loader Operator
15. Enrique Brabante	Roller Operator
16. Rolando Laron	Hvy. Equipment Mechanic
17. Ricardo Giron	Mechanic/Welder
18. Benvienido Bien	Mechanic
19. Lucricio Carangay	Mechanic
20. Renato Belayre	Driver
21. Guillermo Retumban	Driver
22. Faustino Maleon	Driver

23. Eduardo de Ocampo	Driver
24. Leovigildo Cantillano	Driver
25 Felimon Atienza	Driver
26. Eutiquio Batardo	Truck Helper
27. Pedro Espejon	Truck Helper
28. Rogelio Roy	Truck Helper
29. Enrique Mendoza	Truck Helper
30. Josie Ermina	Truck Helper
31. Jose Camino	Truck Helper
32. Benjamin Bautista	Truck Helper
33. Godofredo Albo	Timekeeper/Warehouse Keeper
34. Roque Tosoc	Carpenter
35. Macario Gavino	Carpenter
36. Inocentes Galona	Carpenter
37. Jose Banday	Carpenter
38. Ernesto Osoc	Carpenter
39. Anatalio Cado	Survey Helper
40. Leonardo Tipones	Survey Helper
41. Vito Euste	Survey Helper
42. Hilarion Guinoo	Survey Helper
43. Alberto Agreda	Helper
44. Jose Breguildo	Helper
45. Felipe Cea	Helper
46. Luis Clarianes	Helper
47. Pastor Clarianes	Helper
48. Donato Calona	Helper
49. Eduardo Hunat	Helper

50. Ubaldo Osoc Jr.	Helper
51. Eddie Pago	Helper
52. Norman Pago	Helper
53, Fernando Penis	Helper
54. Roberto Ramirez	Helper
55. Romeo Tinoy	Helper
56. Roberto Guinoo	Helper
57. Amancio Galona	Watchman
58. Antonio Galona	Watchman

SUBMITTED BY:

(O[illegible] SIGNED)
EFREN P. MORANTE
SME Construction Manager

SOUTH MOTORISTS ENTERPRISE

MAYDASO, MILAOR, CAMARINES SUR

LIST OF PRESENT EQUIPMENT

NUMBER.	DESCRIPTION
1	Road Grader
1	Road Roller 10 Ton
1	Bulldozer D-8
1	Payloader, 2.75 cu. yd.
3.	Dump Trucks, 10 cu. m.
2	Cargo Trucks, 9 cu.m.

SUBMITTED BY:

(Orig. Signed)
EFREN P. MORANTE
SME Construction Manager

BICOL RIVER BASIN DEVELOPMENT PROJECT

MANPOWER SCHEDULE OF CONSULTANTS S

NAME	POSITION	1 N	2 D	3 J	4 F	5 M	6 A	7 M
AMADO E. BANDELARIA	DEPUTY PROJ. MANAGER							
E. C. FORTALEZA	SR. HIGHWAY ENGINEER							
	SR. BRIDGE ENGINEER							
	SR. LOC. ENGINEER							
J. A. TORRALBA	SR. MATLS. ENGINEER							
F. C. ROSALES	ADM. OFFICER							
L. P. JOSE	CLERK TYPIST							
T. S. SABABAN	JANITOR MESSENGER							

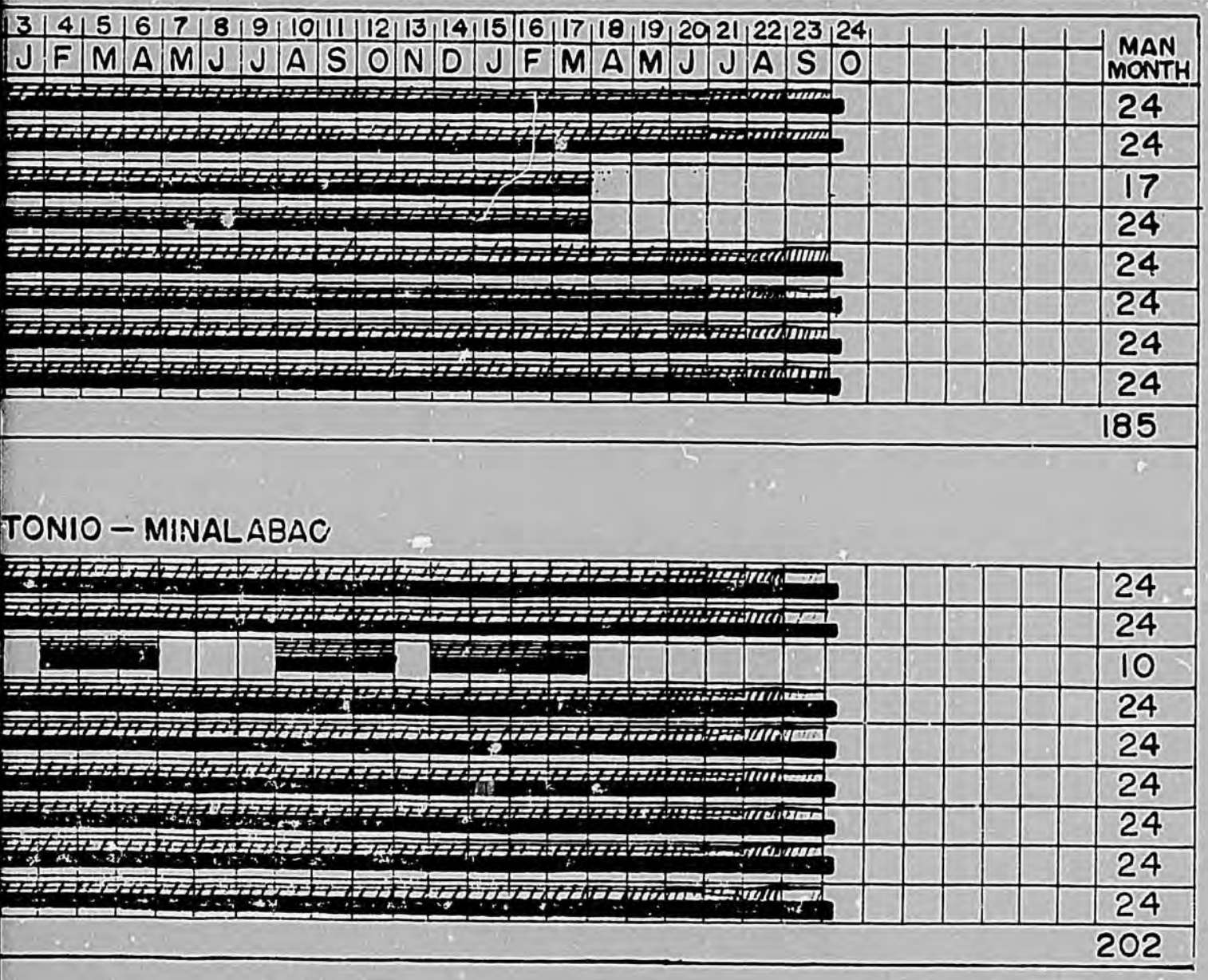
SUB-PROJECT NO. 6 PALISTINA - SAN ANTONIO - MI

VICENTE B. ZANO	RESIDENT ENGINEER							
C. MOLINA	HWY. ENGR. INSPECTOR							
R. NUNEZ	BRIDGE ENGR. INSP.							
B. A. BAUTISTA	MATERIALS ENGR.							
A. M. MADLA	SURVEYOR/DRAFTSMN							
C. D. DELFIN	LABORATORY TECH.							
V. dIC. CLARIDAD	CLERK/TYPIST							
M. C. DANILA	JANITOR MESSENGER							
P. F. SABABAN	LABORER							

2

PROJECT – ROAD COMPONENT

TANTS STAFF PACKAGE II



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

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONSULTANT INTEGRATED PHILCONSULT, INC.

FOR THE MONTH OF September 1981

	Administrative Finance	Engineering Technical	Skilled	Unskilled
Manila-Based 1/		4		
Local-Hired 2/	5	17		8
Sub-Contractors 3/				
T o t a l	5	21		8

1/ Includes permanent employees
2/ Employees residing within the basin area
3/ Local Hired only

Submitted By:

AMADO E. BANDELARIA
Deputy Project Manager

3

4

September 25, 1981

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

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

AMADO B. BANDELARIA
Deputy Project Manager