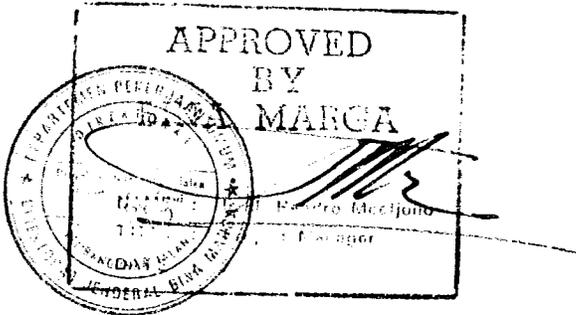
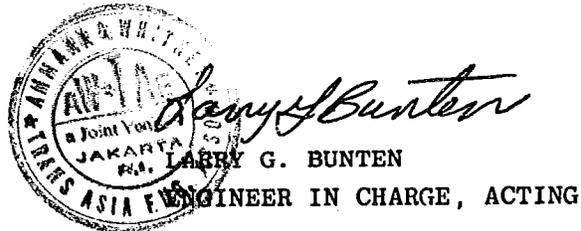


REPORT NO. 61

JAGORAWI HIGHWAY PROJECT
CONSULTING SUPERVISORY SERVICES



SUBMITTED BY



FOR THE MONTH OF MAY
1979

PREPARED BY : JOINT VENTURE
AMMANN & WHITNEY
TRANS ASIA ENG.
ASSOCIATION INC.
P.O. BOX 44
BOGOR,
INDONESIA

JAGORAWI HIGHWAY

SITE MAP
SCALE 1:250,000

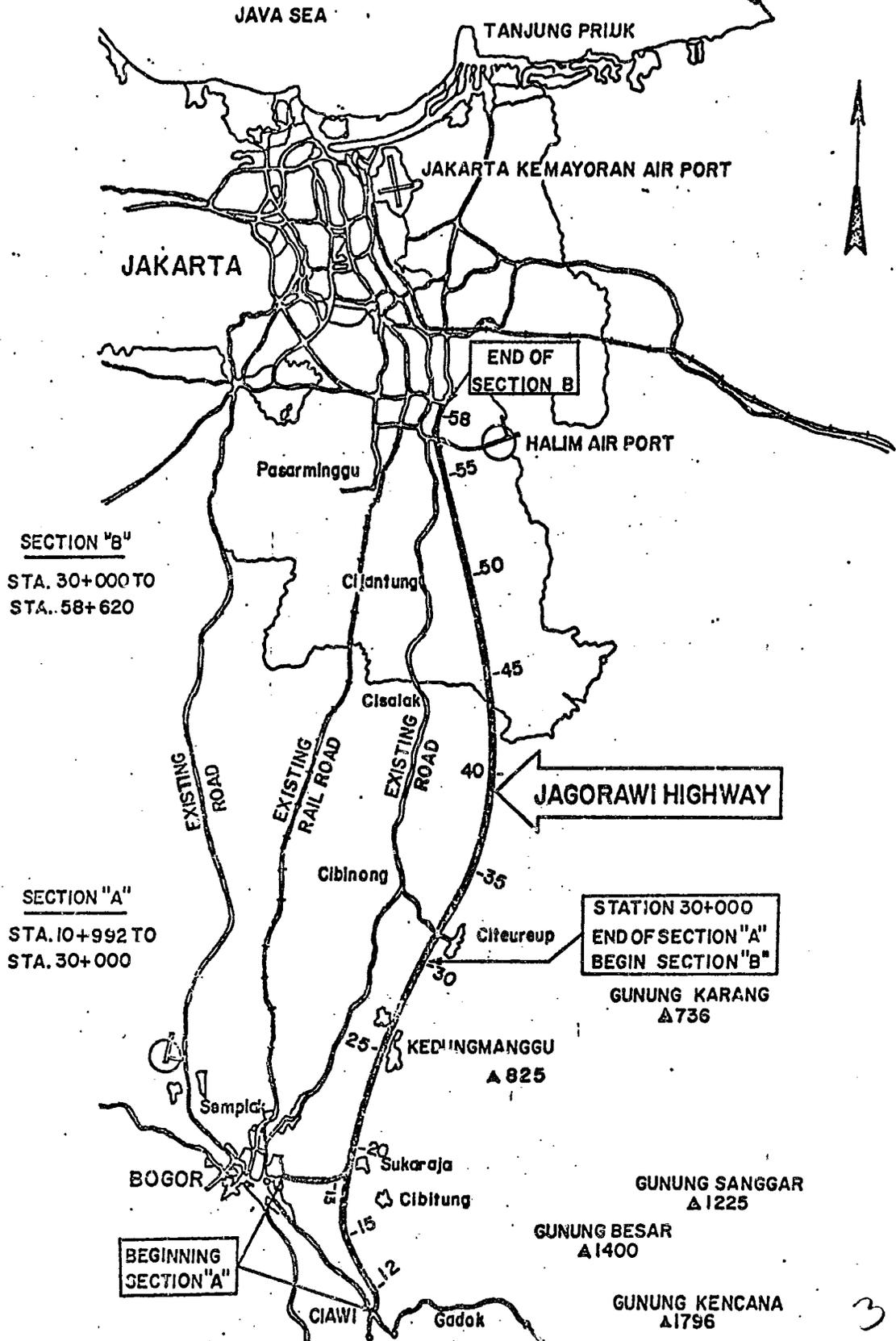


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SECTION I NARRATIVE SUMMARY

I. . . . NARRATIVE SUMMARY

The Ciawi Section, the final links on Jagorawi is nearing completion. Paving was completed during mid-May. Only minor erosion control drainage work, signs, striping, fence and traffic signal work remain. The only major problem that could affect the opening of the Ciawi Section to public traffic by June 30th is lack of power to operate; however, this should not be a controlling factor in opening the road. Toll personnel could be shuttled from the Bogor Toll Office.

The Contractor has indicated a willingness to settle outstanding administrative matters. The Engineer has submitted relevant claim and disputed contract change order correspondence to Bina Marga in anticipation of negotiating settlements of these matters.

Bina Marga has revised the Ciawi Section from 2-lane, 2-way traffic usage only. The direction of travel will be from Ciawi to Jakarta. When the Ciawi Section is opened, vehicles destined for Ciawi will have to re-route through Bogor.

The Contractor is demobilizing plants and equipment rapidly as the work draws to a close.

The report is submitted late because the Contractor did not submit dollar and rupiah invoices for the month of May. The Contractor is waited for confirmation from Bina Marga that the rupiah retention money can be released on the May estimate, prior to submission. Also, Bina Marga's budget allocation has not cleared, so the Contractor would not have been able to receive payment if the estimate had been submitted. There are almost no dollar payments due to shipping deductions and reductions in materials on hand payments.

References in this report to payments authorized on the May estimate are revised to mean "when submitted".

SECTION II ADMINISTRATION

II. 1. . . . SUBMISSIONS/APPROVALS

The Engineer's Rupiah Invoice No. 60, for the month of April was submitted and approved by Bina Marga.

The Constructor's Dollar Invoice Number 58, was approved by Bina Marga and returned for collection. The Contractor's Rupiah Invoice No. 58 is being held by Bina Marga.

Bina Marga by letter BM-428/E dated May 4, 1979 approved additional compensation for the Contractor due to the Rupiah devaluation. Estimated payments of Rp 400,000,000 will be authorized for dollar purchase items and dollars that have been deducted and replaced by rupiahs when the rupiahs were received by the Contractor after devaluation.

The Engineer has submitted a request for approval for release of the 10% dollar retention money withheld from the Engineer's fee on supervision invoices (EIC letter 4421/G-311/BM, dated May 10, 1979).

The Contractor's Invoice No. 10, for foreign materials escalation (reduced in amount to agree with Bina Marga's available funds), was submitted to Bina Marga. Approval is pending.

Bina Marga has approved, CCO No. 103, Revision No. 1 (Barbed Wire Fence for Section A). CCO No. 87, Suppl. No. 3, covering the remaining project shipping deductions has been submitted to Bina Marga for approval.

A complete list of all incoming and outgoing correspondence for the month is contained in the appendix of this report.

II. 2. . . . DECISIONS

Bina Marga has decided to revise the 2-lane Ciawi Section to one-way traffic operations. The direction of travel will be from Ciawi to Jakarta. The reason for this change was stated to be, traffic safety. The Engineer in reviewing the effects of this decision noted there would be little effect to the Contractor's on-going work except for omission of signs and

SECTION II ADMINISTRATION

II. 2. . . . DECISIONS (Cont'd)

kilometer markers, revisions in striping and deletion of some guardrail on the right side of the roadway.

The decision will affect Stage II Construction because the Contractor will be denied the full use of the paved roadway and will now have to construct a haul road. Experience has shown that a haul road will be impassible during the rainy season. Also, the Gadog Spur, if included in Stage II, could probably be opened to traffic about 6-months ahead of the Ciawi 4-lane completion. With one-way traffic on Ciawi, it is doubtful the Gadog Spur (a 2-way road) should be opened early.

Refer to EIC letter 4444/G-313/BM dated May 19, 1979 for the Engineer's full review of the one-way traffic operations of the Ciawi Section.

II. 3. . . . MAJOR CONFERENCES

There were no meetings with the Contractor this month.

II. 4. . . . OFFICIAL VISITORS

Weekly visits by Mr. Koski and Assistant continued this month.

II. 5. . . . FINANCIAL OVERRUNS/UNDERRUNS

AID Jakarta has received notice from Washington that the Loan Terminal Date of Dispersement (TDD) and Terminal Date of Dispersement Authorization (TDDA) were extended in May. The TDDA is to be extended until April 30, 1980 and the TDD is extended until April 30, 1981. The Engineer has received verbal notification from Bina Marga that the Contractor's and Engineer's letters of credit have been extended. Written notification is required. Bina Marga has also given verbal notification that the Contractor's existing letter of credit has been reduced by \$ 736,300.91. Again, written notification of this change is required. See EIC letter 4443/F-209/BM, dated May 18, 1979.

As requested, the Engineer submitted an estimate of Contractor

SECTION II ADMINISTRATION

II. 5. . . . FINANCIAL OVERRUNS/UNDERRUNS (Cont'd)

Rupiah payments pending from May until completion. The amount estimated was Rp 2.5 billion. This amount included a contingency for claims and major item cost adjustments. Total combined Rupiah payments to the Contractor and Engineer is estimated to be Rp. 12.0 billion.

The Engineer again this month updated the dollar project costs. All remaining Contract materials on hand were inventoried. The estimated final dollar cost is \$ 25,352,934.71 with several possible cost items unknown.

A status of US Dollar and Rupiah funds is contained in the appendix of this report.

6. . . . CLAIMS

Bina Marga has agreed to a partial settlement of the Contractor's Rupiah Devaluation claim. Payments received after devaluation for Contract Amendment No. 1 (Foreign Materials Escalation), and dollar deductions for shipping and toll plaza work where US/AID will not participate, are all to be adjusted to the new dollar buying rate. The Engineer estimates that the value of this settlement is Rp 400,000,000 (US \$ 640,000).

There has been no decision regarding an across-the-board increase for Rupiah item work, retention money and Contract Change Order work, due to the Rupiah devaluation.

The Engineer has reviewed the Ciawi Intersection/Ciawi Toll Plaza claim and recommended a settlement of \$ 30,000 - \$ 35,000 (paid in rupiahs). This is considerably less than the amount requested (\$ 556,581.78) because much of the claimed amount has already been paid for as item work, or invoiced on foreign materials escalation, local labor or local materials escalation clauses contained in the existing Contract.

The Contractor has indicated he may be willing to settle outstanding administrative matters. All claims related correspondence was submitted to Bina Marga for review in anticipation of

SECTION II ADMINISTRATION

II. 6. CLAIMS (Cont'd)

negotiating settlements. Correspondence for 12 possible claims, including the two discussed above, was forwarded to Bina Marga.

II. 7. PROJECT FILMING PROGRAM

No progress this month.

II. 8. US/AID REQUIREMENTS

The remaining project shipping deductions have been formalized on Contract Change Order No. 87, Suppl. No. 3. The total amount of dollar shipping deductions for the project (beginning of work thru completion) is \$ 882,720.67.

II. 9. STAGE II WORK

US/AID has obtained approval to provide dollar financing from the existing loan for design and supervision of Stage II. Only the work within the original scope of work defined by S & P can be financed. Ciawi 4-lanes and the Gadog Spur have been determined to be eligible for design and supervision dollar financing. Construction costs will not be financed by AID. The Engineer has made an estimate that Gadog and the Ciawi 4-lane section represent about 70% of combined Stage II work. Thus, Expatriate design and supervision may have to be split financed about 70% - 30% (Dollars to Rupiahs).

SECTION III..... SCHEDULE

III. 1. PROGRESS

SECTION B work is essentially complete except for the maintenance guarantee period. The maintenance guarantee period ends July 31, 1979.

SECTION A

The Ciawi Section is about 98% complete. Only miscellaneous drainage, signs, striping, fence and traffic signal completion remain. It is estimated that the Ciawi Section can be opened to traffic by June 30, 1979. The Contractor is correcting deficiencies found during the semi-final inspection of the Road now open to Bogor. We report this section as 99% complete.

The following progress is based on Revised Schedule No. 8.

<u>Section A</u>	<u>% Time Elapsed</u>	<u>% Work Scheduled for completion</u>	<u>% Work Actually Completed</u>
Ciawi Section	98	98.7	98.0
Road Open to Bogor	98	100.0	99.0
Combined Section A	98	99.0	98.7

From the above, it can be seen, that the Ciawi Section is on schedule.

MAY 1930 - 1960 AVERAGE RAINFALL

<u>Section A</u>	<u>Total Rainfall</u>	<u>Number of Rain Days</u>	<u>Average Rain During Rain Day</u>	<u>Max. Rain in 24 Hours</u>
	334 mm	15.5	21.6 mm	81.0 mm

MAY 1979 ACTUAL AMOUNTS OF RAINFALL

Leuwikutug	379 mm	16.0	23.7 mm	88.0 mm
Baranangsiang	273 mm	19.0	14.4 mm	34.0 mm
Average	326 mm	17.5	19.0 mm	71.0 mm

The rainfall during May, was very nearly normal.

SECTION III SCHEDULE

III. 2. OBSERVATIONS

The Ciawi Section can probably be opened to traffic by June 30, 1979. Power supply for the traffic signals at Ciawi Intersection has not been provided and this may delay completion. Also, the Ciawi Toll Office, being constructed by another contractor, appears to be far behind schedule.

SECTION IV ENGINEERING PROGRESS

IV. 1. DESIGN

Surveying work included completion of traverse and leveling of the vertical controls for Section "B" and some work has begun in Section "A"; final cross-sections at Ciawi; and topography for drainage design of earth and mortared rubble lined ditches.

Plans prepared and submitted to the Contractor include the following :

- a. Signing and Striping Plans for the Ciawi Intersection.
- b. All drainage plans from Ciawi Intersection (11+000) to the Bogor Interchange (17+550).
- c. Sketch Plans and drainage plans revisions required to reflect comments made during the semi-final inspection.
- d. Revision to the Striping and Signing plans from Ciawi Intersection to the Bogor Interchange required to comply with the Director-General's decision to implement one-way traffic from Ciawi to the Bogor Interchange.

All as-built plan sheets have been prepared and, except for Ciawi, the plans have been field checked. Work on incorporating the field review into the as-built plans is underway. Note that the as-built plans cannot be finalized until completion of all final cross-sections as well as traversing and leveling of the centerline monuments.

IV. 2. CONSTRUCTION

The Ciawi Section (Ciawi Intersection to Sta. 17+500) is progressing well. All of the roadway length including the Ciawi Intersection is paved.

Construction of fence and signs for the Ciawi Section is progressing satisfactorily as is slope sodding.

The Contractor is demobilizing equipment as the work draws to an end.

As intimated above, work progress is excellent with indications that the Ciawi Section might be completed well ahead of the scheduled June 30th target date.

SECTION IV ENGINEERING PROGRESS

IV. 2. CONSTRUCTION (Cont'd)

Embankment construction is complete. Slope shaping and grading was the only earthwork performed during this period.

P.P. construction was performed at the following locations :

Ciawi Intersection and Sandung Road - Type A - Outlet protection.

Sta. 1+890 Sukabumi Road, Ciawi Intersection - Type B - Outlet protection.

20 cm. P.P. was installed between Sta. 11+100 and 11+600 and between Sta. 16+025 and Sta. 15+800 Ciawi for protection of 3" Max. granular fill in place.

Clearing and Grubbing was completed on Section A.

Class "AA" concrete was placed for curbs at the Ciawi Connection and Class "C" concrete was placed for a utility duct extension at the connection.

Fence posts are in place to Sta. 11+000 Ciawi with barbed wire strung to Sta. 13+000.

Strip sodding was completed down to Sta. 11+500 Ciawi leaving only the 500 meters between Sta. 11+500 and Sta. 11+000 to be completed.

Bituminous Mix Production after deduction of (0.74%) for Plant waste included :

Wearing Course	- 8,369 Tons
Binder Course	- 3,083 Tons
Asphalt Treated Base	- <u>8,042 Tons</u>
T o t a l	=19,494 Tons

Wearing Course was laid at the following location :

Sta. 16+635 to and for the Ciawi Intersection.

Binder Course was laid at the following locations :

Sta. 11+950 to the Ciawi Intersection and for the Ciawi Toll Plaza.

(Cont'd)

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SECTION IV ENGINEERING PROGRESS

IV. 2. . . . CONSTRUCTION (Cont'd)

Asphalt Treated Base was laid at the following locations :

Ciawi Intersection and shoulders from Sta. 16+635 to Ciawi Intersection.

12.9 Tons of RS-2K emulsion was used as tack coat for bonding between the different bituminous layers.

62,400 Sq. Meters of shoulder seal coating was completed during this period. The Ciawi Intersection not included.

29 cored samples were lifted from in-place ATB, 12 from in-place Binder Course and 16 from in-place Wearing Course. All tests performed met specification requirements.

No lane striping was performed during this report period.

Fence construction progressed satisfactorily along both sides of the highway on the Ciawi Section.

Vandalism of the completed fence continues to be a problem with little visible effort expended to control actions of vandals by authorities.

IV. 3. . . . QUANTITIES

Contract item work for Section A and B during May, and to be paid for under Progress Pay Estimate No. 59 may be seen in the appendix of this report.

Bina Marga has not paid the Contractor Rupiah Invoice No. 58, or Invoice No. 10 for Foreign Materials Escalation submitted last month.

The rupiah retention for Section A was released on Progress Pay Estimate No. 59, 50% is backed by bank guarantee. The release was authorized in writing by Bina Marga. Dollar retention money was not released.

SECTION IV..... ENGINEERING PROGRESS

IV. 3. QUANTITIES (Cont'd)

The Contractor has delivered a generator to Bina Marga, and by Bina Marga authorization, the second invoice for Contract Amendment No. 2 was certified and forwarded to Bina Marga.

Updated status reports for pending change orders, possible and pending claim, major items subject to adjustment and excess materials on hand were submitted to Bina Marga for review.

Because of lack of dollar payments available on Invoice No. 59, only 9.9% of the shipping deductions authorized by CCO 87, Suppl. No. 3 could be deducted this month. The Contractor received zero dollar payments on this estimate, and the remainder of the shipping deductions will probably have to be recovered from dollar retention money.

Contract Change Order activity this month follows :

CCO 108	Authorizing use of barbed wire fence in Section A was approved by Bina Marga.
CCO 87, Suppl. No. 3	Deducting the remainder of improper shipping dollar payments and authorizing rupiah credits was prepared by the Engineer, accepted by the Contractor, and forwarded to Bina Marga for approval.

IV. 4. MAINTENANCE

Three small pavement slippage failures in Section B, at bridge approach slabs, were repaired by the Contractor.

SECTION V PERSONNEL

V. 1. ENGINEER

Mr. Strough, EIC returned from approved home leave on May 6, 1979. Mr. Strough, by letter reference 4435/P-236/BM, dated May 16, 1979 has submitted his resignation from the Joint Venture effective June 30, 1979.

Mr. Takayesu, Highway Design Engineer, will leave the project on June 6, 1979. Refer to letter 4420/P-V/79, dated May 10, 1979.

Mr. Caldwell, Deputy Resident Engineer, Quality Control by letter 4436/P-V/79 dated May 1979 is scheduled to leave Jagorawi on June 30, 1979.

This leaves only Mr. Bunten, Deputy Resident Engineer Quantities on board after June 30, 1979. *

A listing of approved Expatriate Man-Months and actual Man-Months used to date follows.

* Mr. Caldwell was subsequently extended for 1-month.

(Cont'd)

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EXPAT. MAN-MONTHS THRU FEB'79 INVOICE

P O S I T I O N / N A M E		THRU FEB'79	THRU MAY'79	TOTAL	AUTH.	OVER + UNDER -
<u>EIC</u>	G. KATAVOLOS	12.90	Ø	12.90		
EIC	W. BURROUGHS	29.08	Ø	29.08		
EIC	B. STROUGH	20.87	3	23.87		
<u>EIC TOTAL</u>				65.85	76.0	- 10.15
<u>D.R.E. QUAL.</u>	G. HALTON	24.20	Ø	24.20		
D.R.E. QUAL.	R. BECK	5.67	Ø	5.67		
D.R.E. QUAL.	G. KLEIN	10.43	Ø	10.43		
D.R.E. QUAL.	A. MOLNAR	15.47	Ø	15.47		
D.R.E. QUAL.	J. CALDWELL	5.00	3	8.00		
<u>TOTAL D.R.E. QUAL.</u>				63.77	63.0	+ 0.77
<u>DRE. QUANTITIES</u>	W. BURROUGHS	7.37	Ø	7.37		
DRE. QUANTITIES	N. RAMER	25.56	Ø	25.56		
DRE. QUANTITIES	L. BUNTEN	20.13	3	23.13		
<u>TOTAL DRE. QUANTITIES</u>				54.06	64.0	- 9.94
<u>SEN. BRIDGE</u>	R. MCLAUGHLIN	36.12	Ø	36.12		
SEN. BRIDGE	H. TARZIAN	9.87	Ø	9.87		
SEN. BRIDGE	T. GORDON	2.87	Ø	2.87		
<u>SENIOR BRIDGE TOTAL</u>				48.86	45.5	+ 3.36
<u>SPECIALIST</u>	J. TRIPP	2.93	Ø	2.93		
SPECIALIST	W. HENEL	4.10	Ø	4.10		
SPECIALIST	M. CARTER	0.60	Ø	0.60		
<u>TOTAL SPECIALIST</u>				7.63	16.0	- 8.37
<u>SEN. PAVM'T ENG.</u>	H. PRESTON	23.97	Ø	23.97		
SEN. PAVM'T ENG.	J. CALDWELL	15.80	Ø	15.80		
SEN. PAVM'T ENG.	J. PALKA	6.18	Ø	6.18		
SEN. PAVM'T ENG.	A. DEGRAAFF	3.73	3	6.73		
<u>TOTAL SEN. PAVM'T</u>				52.68	48.0	+ 4.68
<u>PAGE TOTALS</u>				292.85	312.5	- 19.65
<u>PAGE NO.2 (CARRIES FORWARD)</u>				177.39	201.0	- 23.61
<u>TOTALS</u>				470.24	513.5	- 43.26

NOTE : Some man-months have been redistributed by letter authorization including reduction of the Maintenance Engineer position to 12 months, and balancing the Highway Design Engineer overrun against the Drainage Design Engineer underrun.

EXPATRIATE MAN-MONTHS THRU FEB'79
 INVOICE ESTIMATED THRU MAY'79

POSITION/NAME	THRU FEB'79	THRU MAY'79	TOTAL	AUTH.	OVER UNDER	+ -
<u>SENIOR MATERIALS ENGINEER</u>						
M. STONE	5.43	Ø	5.43			
G. KLEIN	25.63	Ø	25.63			
J. BAMBARA	7.26	Ø	7.26			
TOTAL MATL'S ENGR			38.32	40.0	-	1.68
<u>CHIEF OF SURVEY</u>						
B. PORTER	13.97	Ø	13.97			
C. GOON	10.07	Ø	10.07			
R. MORGAN	1.00	Ø	1.00			
TOTAL			25.04	25.0	+	0.04
<u>GEN. HIGHWAY CONST. ENGR.</u>						
J. PALKA	6.50	Ø	6.50			
TOTAL			6.50	13.0	-	6.50
<u>SENIOR HIGHWAY DESIGN ENGR.</u>						
P. COOPER	24.00	Ø	24.00			
J. BELL	7.90	Ø	7.90			
TOTAL			31.90	28.0	+	3.90
<u>SENIOR HIGHWAY DESIGN ENGR.</u>						
D. YALE	1.10	Ø	1.10			
R. ALLRED	1.33	Ø	1.33			
A. DEGRAAFF	7.13	Ø	7.13			
G. TAKAYESU	3.73	3	6.73			
J. ZICKAFOOS	28.93	Ø	28.93			
TOTAL			45.22	26.0	+	19.22
<u>SENIOR DRAIN DESIGN ENGR.</u>						
L. LOPEZ	6.20	Ø	6.20			
P. SUTTON	7.03	Ø	7.03			
TOTAL			13.23	28.0	-	14.77
<u>SOILS ENGINEER</u>						
J. PALKA	13.47	Ø	13.47			
TOTAL			13.47	12.0	+	1.47
<u>MAINTENANCE ENGINEER</u>						
E. KURUCZ	0.30	0.97 +	1.27			
TOTAL			1.27	24.0	-	22.73
<u>BRIDGE DESIGN ENGINEER</u>						
F. MANDATO	0.97	Ø	0.97			
TOTAL			0.97	Ø	+	0.97
<u>PRINCIPALS</u>						
G. GROSS	1.07	Ø	1.07			
H. JOSEY	0.23	Ø	0.23			
E. EVANSON	0.17	Ø	0.17 +			
			1.47	5.0	-	3.53
PAGE TOTALS			177.39	201.0	-	23.61

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SECTION V PERSONNEL

V. ENGINEER (Cont'd)

Effective May 25, 1979, Mr. Hudaya, Bina Marga Counterpart to DRE Quantities was returned to Bina Marga.

The following Indonesian local staff employed by the Engineer to Assist in the performance of the inspection duties are by category as follows :

COUNTERPARTS (Bina Marga)

<u>N a m e</u>	<u>Position</u>	<u>NO.</u>	<u>**MM Appr'd by Contr.</u>	<u>MM Expended to date</u>	<u>*Est. Total MM Reg.to complete</u>
Mr. Wazir	DRE (QC)	1	65	58	65
Mr. Hudaya	DRE (Q)	1	63	53	63
-	SHE-Constr.	-	62.9	48	48
Mr. Moeljoto	SHE-Paving	1	60	58	60
Mr. Soepomo	SHE-Materials	1	62	59	62
-	SHE-Bridge	-	34	34	34
Mr. Saksono	Chief of Sur.	1	54	44	54
-	SHE-Design	-	18	0	18
<u>T o t a l</u>		<u>5</u>	<u>418.9</u>	<u>354</u>	<u>404</u>

ADMINISTRATION

<u>P o s i t i o n</u>	<u>No.</u>	<u>**MM Appr'd by Contr.</u>	<u>MM Expended to date</u>	<u>*Est. Total MM Reg.to complete</u>
Administration Manager	1	75	63.3	75
Secretary	1	64	51.3	64
Clerk/Typist	2	144.6	124.2	144.6
Accountant	1	62.5	50.9	62.5
Book Keeper	3	136.9	117	136.9
Mechanic	3	113.4	98.7	113.4
Security Guards	2	259.6	209.6	259.6
Office Janitor	2	108.4	97.8	108.4
Gardener	2	48	44.6	48.0
<u>T o t a l</u>	<u>17</u>	<u>1012.4</u>	<u>857.4</u>	<u>1012.4</u>

* Based on present estimate time required to complete project.

** Includes time allocation original contract plus Amendment No. 1, 2, 3 and 4.

SECTION V PERSONNEL

V. 1. . . . ENGINEER (Cont'd)

OFFICE PERSONNEL (Technical)

<u>P o s i t i o n</u>	<u>Q'ty</u>	<u>**MM Appr'd by Contract</u>	<u>MM Expended to date</u>	<u>*Est.Total MM Reg. to complete</u>
Office Engineer	1	64.6	52.9	64.6
Drainage Engineer	1	41.1	37.1	41.1
Highway Engineer	1	47.0	45.0	47.0
Highway Technician	4	110.0	122.8	110.0
Draftsman	7	204.8	171.4	204.8
	<u>14</u>	<u>467.5</u>	<u>429.2</u>	<u>467.5</u>

FIELD PERSONNEL

<u>P o s i t i o n</u>	<u>Q'ty</u>	<u>**MM Appr'd by Contract</u>	<u>MM Expended to date</u>	<u>*Est.Total MM Reg. to complete</u>
Soil/Material Engineer	1	43.3	35.3	43.3
Party Chief	2	109.1	79.1	109.1
Instrumentman	2	166.5	128.8	166.5
Chainman	3	173.5	165.5	173.5
Rodman	2	176.3	148.3	176.3
Drainage Technician	2	67.0	61	67.0
Highway Inspector	0	119.3	86.3	119.3
Bridge Inspector	2	307.6	359.6	307.6
Plant Inspector	3	289.3	250.3	289.3
Material Inspector	4	431.5	417.5	431.5
Pavement Inspector	1	154.4	128.4	154.4
Laboratory Technician	2	385.6	361.9	385.6
Laboratory Aide	1	219.9	198.4	219.9
Material Aide	3	606.5	600.4	606.5
Scaleman	2	149.6	110.9	149.6
Survey Aide	-	38.7	38.7	38.7
Driller	-	55.9	55.9	55.9
Drivers	12	1166.7	1038.8	1166.7
T o t a l	<u>42</u>	<u>4660.7</u>	<u>4265.1</u>	<u>4660.7</u>
Grand Total	<u>78</u>	<u>6559.5</u>	<u>5905.7</u>	<u>6559.7</u>

* Based on present estimate time required to complete project.

** Includes time allocation original contract plus Amend. 1,2,3,4.

SECTION V PERSONNEL

V. 2. . . . CONTRACTOR

PERSONNEL ON THE JOBMay 25, 19791. OFFICEA. ADMINISTRATION

<u>Catagories</u>	<u>Korean</u>	<u>Indonesian</u>	<u>Total</u>	<u>Increase/Decrease</u>
1. Managing Director	-	-	-	-1
2. Project Manager	1	-	1	
3. Chief Administration	1	-	1	
4. Contract Administration	1	-	1	
5. Cost Analysis	-	-	-	-1
6. Accountants	2	-	2	
7. General Affairs	2	-	2	-2
8. Material & Custom Clearance	3	3	6	
9. Labour & Payroll	2	3	5	
10. Typist	-	2	2	
11. Clerk	-	1	1	-1
12. Cook	1	22	23	-6

B. TECHNICAL

1. Chief Office Engineer, Quantities	1	-	1	
2. Office Engineer	1	4	5	-3
Total	15	35	50	-14

2. EQUIPMENT MAINTENANCE

<u>Catagories</u>	<u>Korean</u>	<u>Indonesian</u>	<u>Total</u>	<u>Increase/Decrease</u>
1. Superintendent for Maintenance	1	-	1	
2. Assistant Superintendent for Maintenance	-	-	-	-1
3. Spare Parts checker	1	3	4	-2
4. Senior Mechanic	2	-	2	
5. Junior Mechanic	10	55	65	-47
Total	14	58	72	-50

3. FIELD

<u>Catagories</u>	<u>Korean</u>	<u>Indonesian</u>	<u>Total</u>	<u>Increase/Decrease</u>
1. Superintendent for Earth	-	-	-	-
2. Field Engineer for Quality Control	-	-	-	-
3. Assistant Superintendent for Earth Work	-	-	-	-1

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SECTION V PERSONNEL

V. CONTRACTOR (Cont'd)

<u>Categories</u>	<u>Korean</u>	<u>Indonesian</u>	<u>Total</u>	<u>Increase/decrease</u>
4. Assistant Superintendent Structural work	-	-	-	
5. Superintendent for Misc. work	1	-	1	+1
6. Assistant Superintendent for Misc. work	2	-	2	
7. Foreman for Earth work	-	-	-	-1
8. Foreman for Structural work	-	-	-	
9. Foreman for Misc. work	3	3	6	-2
10. Superintendent for Paving work	-	-	-	-1
11. Assistant Superintendent for plant & crusher	-	-	-	
12. Assistant Superintendent for Paving work	1	-	1	
13. Foreman for Paving work (Q.Site P.A.)	9	3	12	-4
14. Superintendent for Final Earth & Base course	-	-	-	
15. Assistant Superintendent for final & Base course	-	-	-	-1
16. Foreman for final and Base course	-	1	1	-4
17. Laboratory	-	3	3	-3
18. Surveyor	1	4	5	-6
19. Field clerk checker	-	1	1	-1
20. Skill Labour	-	30	30	-15
21. Carpenter	-	5	5	-13
22. Heavy Equipment Operator	-	20	20	-20
23. Dump Truck Driver	-	10	10	-80
24. Light Vehicle Driver	-	13	13	-15
25. Common Labour	-	468	468	+64
26. Other	-	20	20	-21
27. Superintendent for Plant and Crusher	-	-	-	-1
Total	17	541	598	-124
Grand Total	46	674	720	-188

SECTION IV APPENDIX

I. 1. INCOMING CORRESPONDENCE

<u>FROM</u>	<u>SUBJECT</u>	<u>DATE</u>
1. Hyundai	Urgent Design for Ciawi area of Section A.	May 1, 1979
2. Hyundai	Submittal of Shipping Summary and Status Report during the period from March 26, 1978 to March 25, 1979	May 1, 1979
3. Jasa Marga	Median Cross-over's key.	May 1, 1979
4. Hyundai	Submittal of Cost Proposal for guard rail Reflectors, Section A.	May 2, 1979
5. TAE Jkt.	Invoice	May 2, 1979
6. Hyundai	Reimbursement of Gasoline Price.	May 4, 1979
7. Hyundai	Revised Cost Proposal for Permanent Road Signs, Section A and B.	May 4, 1979
8. Citibank	Bank Statement.	May 4, 1979
9. Bina Marga	Fence Location between Sta. 15+600 to 16+434 Rt. Side and Sta. 11+400 to 11+750 Lt. Side.	May 5, 1979
10. Bina Marga	Additional Rupiah Payment to Compensate the Contractor for Dollar Costs Foreign Materials Escalation and AID Non Participation, Due to the Rupiah Devaluation.	May 7, 1979
11. Archicons	Fee and overhead for the month of April, 1979.	May 7, 1979
12. Hyundai	Locally Purchased Material Escalation	May 7, 1979
13. Hyundai	Notice of Actual Quantity for the additional use of 3" aggregate.	May 7, 1979
14. Hyundai	Submittal of cost proposal for kilometer markers in Section A.	May 7, 1979
15. Hyundai	Request for monthly Dollar Progress Payment no. 58 Jagorawi Highway Project.	May 11, 1979

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SECTION VI APPENDIX

I. 1. INCOMING CORRESPONDENCE (Cont'd)

<u>FROM</u>	<u>SUBJECT</u>	<u>DATE</u>
16. Hyundai	Request for monthly Rupiah Progress Payment no. 58 Jagorawi Highway Project	May 11, 1979
17. Hyundai	Cost Proposal for Inlet Type II Modification Sta. 18+117.5 Rt., Sta. 18+378 Lt.	May 11, 1979
18. Hyundai	91st List of Personnel to be brought from Singapore.	May 11, 1979
19. Hyundai	Fencing Plan changes Sta. 11+379 to 11+760 Lt., and Sta. 15+590 to 16+434 Rt.	May 11, 1979
20. Hyundai	Monthly Progress Report no. 60.	May 11, 1979
21. Hyundai	Request for the early Release of Retention Monies in Rupiah and Dollar for Section A.	May 11, 1979
22. Bina Marga	Contract Amendment No. 1, Invoice no. 10 (Foreign Materials Escalation)	May 12, 1979
23. Hyundai	Laboratory Equipment and Consumable Material for test.	May 12, 1979
24. Bina Marga	One way direction for the traffic between Ciawi to Bogor Interchange	May 14, 1979
25. Bina Marga	Mr. Handradjadi as Acting Project Manager.	May 15, 1979
26. Hyundai	Jagorawi Reports. Request for.	May 15, 1979
27. SGV Utomo	Invitation Seminar.	May 15, 1979
28. Afia Jkt.	Insurance Policy No. 000207 (F)	May 15, 1979
29. TAE Jkt.	Documentation of the Jagorawi Project Report.	May 16, 1979
30. Hyundai	Invoice of additional compensation for foreign materials escalation (Amendment no. 1-Suppl. no. 1)	May 17, 1979

Cont'd

SECTION IV APPENDIX

I. 1. INCOMING CORRESPONDENCE

<u>FROM</u>	<u>SUBJECT</u>	<u>DATE</u>
31. Hyundai	Request for prompt issuance of completion certificate on partial acceptance.	May 18, 1979
32. Hyundai	Quarterly Rupiah Imported Material Escalation Payment under Contract Amendment No. 1 (10th Invoice-Suppl. No. 3)	May 18, 1979
33. Hyundai	Submittal of the 7th Invoice for Local Labor Escalation reimbursement.	May 18, 1979
34. SGV Utomo	Audit.	May 20, 1979
35. SGV Utomo	Bill No. 4-3475	May 20, 1979
36. TAE Jkt.	Invoice No. AW/TA 44-058 for Bina Marga Jagorawi Highway Basic Contract.	May 22, 1979
37. Hyundai	Submittal of Cost Proposal for the Repaired pavement works at Bridge 40 and Ramp 23.	May 22, 1979
38. Hyundai	Submittal of Shipping Summary and Status Report during the period from March 26, 1979 to May 22, 1979.	May 22, 1979
39. Hyundai	One-way Traffic, Ciawi Intersection to Bogor Interchange.	May 23, 1979
40. Bina Marga	Roadmarking and roadsigns Revision from Ciawi to Bogor Interchange.	May 23, 1979
41. Bina Marga	Transmitted herewith the approved of Contract Change Order's no. 108 Rev. no. 1 and no. 108.	May 25, 1979
42. Hyundai	Submittal of Sub-Contractor's quotation for the revision of Ciawi signal system.	May 25, 1979
43. Hyundai	Request for expeditious information relative to the completion of our project.	May 25, 1979
44. Hyundai	Submittal of the 8th Invoice for local labor escalation reimbursement.	May 25, 1979
45. Hyundai	Return of CCO no. 87, Suppl. no. 3	May 28, 1979

Cont'd 25

SECTION VI APPENDIX

II. 1. OUTGOING CORRESPONDENCE

<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
1. Hyundai	Modifications to the following drain inlets at the Bogor Interchange: a. Type "2" Inlet, 18+117.5 Rt. b. Type "1" Inlet, 18+378.0 Rt.	May 1, 1979
2. Hyundai	Drainage Plans for the Following Station Limits : a. Bridge 15+540 to 16+000 (P008) b. 16+000 to 16+800 (P009)	May 1, 1979
3. Metro Pol.	Authorization.	May 2, 1979
4. Afia Ins.	Insurance Policy - No. 000207 (F)	May 2, 1979
5. Hyundai	Signing and Striping Plan, Ciawi Intersection.	May 3, 1979
6. Hyundai	List of Plans Required to Complete Construction of the Ciawi.	May 3, 1979
7. Hyundai	Deletion of MRFW Sta. 15+735 to 15+870 Rt.	May 3, 1979
8. Hyundai	Approval of the following shop drawing titled inlet type "1" modification Sta. 18+117.5 Rt., inlet type "1" modification Sta. 18+378 Lt.	May 5, 1979
9. Bina Marga	Gerald Takayesu - Exit and Re-entry Permit.	May 5, 1979
10. JV-NYC	Weekly Administration Report.	May 5, 1979
11. Hyundai	Local Labor Escalation.	May 7, 1979
12. Bina Marga	Exit and Re-entry Visa for Mr. Bunten.	May 8, 1979
13. Bina Marga	Transmittal of Contractor's Letter Requesting Compensation for Increased Costs of Motor Oils and Grease.	May 8, 1979
14. Hyundai	Deletion of Foot Bridges from Required Work.	May 8, 1979
15. Hyundai	Fencing Plan changes for the following Limits : a. Sta. 11+379 to 11+760. b. Sta. 15+590 to 16+434.	May 8, 1979

Cont'd

SECTION VI APPENDIX

II. 1. . . . OUTGOING CORRESPONDENCE

<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
16. Bina Marga	Contract Amendment no. 1 Invoice no. 10 (Foreign Materials Escalation)	May 8, 1979
17. Hyundai	Bina Marga approval for Rupiah Compensation Due to the Rupiah Devaluation.	May 8, 1979
18. Hyundai	Payment for Flashers and Delineators (CCO no. 94).	May 9, 1979
19. Hyundai	3" Aggregate fill - Pay Quantity Limited to 130,000 M ³ .	May 9, 1979
20. Bina Marga	Engineer's Rupiah Invoice no. 60/1979.	May 9, 1979
21. Bina Marga	Bernard Strough - Engineer in Charge.	May 10, 1979
22. Bina Marga	Gerald Takayesu - Senior Design Eng.	May 10, 1979
23. Mr.T. Russo	Gerald Takayesu - Completion of Assignment on Jagorawi	May 10, 1979
24. Mr.Takayesu	Jagorawi Project - Completion of Work Assignment.	May 10, 1979
25. Bina Marga	US Dollar Invoices - 10% Retention of Funds.	May 10, 1979
26. Hyundai	Control Panel Location, Ciawi Intersection.	May 11, 1979
27. Hyundai	Drainage Plans for the Following Station Limits : 13+600 to 14+400 (PO05) 16+800 to 17+550 (PO09)	May 11, 1979
28. Bina Marga	Jagorawi Reports - Request for.	May 12, 1979
29. JV-NYC	Weekly Administration Reports	May 12, 1979
30. Bina Marga	91st List of Personnel.	May 14, 1979
31. Bina Marga	Transmittal of Contractor's Dollar and Rupiah Invoice no. 58	May 14, 1979
32. Bina Marga	Submittal of the 10th Invoice, Suppl. no. 2 for Foreign Materials Escalation under Contract Amendment no. 1	May 14, 1979

Cont'd

SECTION VI APPENDIX

II. 1. OUTGOING CORRESPONDENCE

<u>O</u>	<u>SUBJECT</u>	<u>DATE</u>
33. Hyundai	Return of Invoices for Contract Amendment no. 1	May 14, 1979
34. Hyundai	Drainage Plans for the following : Ciawi Intersection to 11+230 (PO01) 11+230 to 12+000 (PO02) 12+000 to 12+800 (PO03) 12+800 to 13+600 (PO04) 14+400 to 15+200 (PO06) 15+200 to Br. 15+540 (PO08 Rev.)	May 14, 1979
35. Hyundai	Repair of failed Pavement on Section B	May 15, 1979
36. Bina Marga	Estimated Rupiah Payments may to Completion of Planned Work.	May 15, 1979
37. Hyundai	Revision of Timing Plan for Baranangsiang Signals.	May 16, 1979
38. Mr. T. Russo	Caldwell, Strough - Completion of Assignment on Jagorawi.	May 16, 1979
39. Bina Marga	Jagorawi Status Change - EIC Position.	May 16, 1979
40. Mr. Caldwell	Jagorawi Project - Completion of Work Assignment.	May 17, 1979
41. Bina Marga	J. Caldwell - DRE (QC) - Completion of Assignment.	May 17, 1979
42. Hyundai	1. Damaged PLN Cable, 2+040 ⁺ . Bogor Bandung Road, Ciawi Intersection. 2. Extension of Utility Conduits 1+991 (Lt). Sukabumi Road, Ciawi Intersection.	May 17, 1979
43. Hyundai	Revisions to Ciawi Signal System.	May 17, 1979
44. Hyundai	Revisions to Drainage Plan 11+230 to 12+000 (PO02)	May 17, 1979
45. Hyundai	Detail for fence post installation in rice paddy areas.	May 17, 1979
46. Bina Marga	Submittal of Monthly Report no. 60	May 18, 1979
47. Bina Marga	Reduction of the Constructor's letter of Credit - Notification.	May 18, 1979
48. Bina Marga	Bina Marga's Decision to Restrict Ciawi to One-way Traffic.	May 19, 1979

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SECTION VI APPENDIX

II. 1. OUTGOING CORRESPONDENCE

<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
49. JV-NYC	Weekly Administration Report no. 220	May 19, 1979
50. Hyundai	One-way traffic "Ciawi Intersection to	May 21, 1979
51. Mr. T.Russo	Rupiah Account Audit, Period Ending mber, 1978.	May 22, 1979
52. Hyundai	Transmittal of Approved Dollar and Rupiah Invoice no. 58.	May 22, 1979
53. JV-NYC	Earned Vacation - Jagorawi Project.	May 23, 1979
54. Hyundai	ESSO Paving Asphalt, Grade 60-70	May 23, 1979
55. Hyundai	Invoices For Local Reinforcing Steel Purchase and Local Cement.	May 23, 1979
56. Bina Marga	Adjustment of Rupiah Compensation For Invoice no. 8 For Foreign Materials Escalation Due to the Rupian Devalua- tion.	May 23, 1979
57. Hyundai	Transmittal of CCO no. 87, Suppl. no.3	May 24, 1979
58. Citibank	Joint Venture Bank Guarantee Reduction Authorized by Bina Marga letter no. 3103/7692/LI dated March 30, 1979.	May 25, 1979
59. Mr. Hudaaya	End of Assignment - Quantity Section.	May 25, 1979
60. Hyundai	Remedial Drainage Work Near Bridge .18+800.	May 26, 1979
61. KBN/Kas Neg.	Authorization.	May 26, 1979
62. Hyundai	Guard Rail Status, May 25, 1979	May 26, 1979
63. Bina Marga	Pending Dollar and Rupiah Payments.	May 26, 1979
64. JV-NYC	Weekly Administration Report no. 221.	May 26, 1979
65. Hyundai	Transmittal of Approved CCO no. 108 Revision no. 1	May 28, 1979
66. Bina Marga	Replacement Fence, Section B	May 28, 1979
67. Bina Marga	Status of US/AID Approval of Contract Change Orders.	May 28, 1979
68. Hyundai	Signing and Striping Plans, Ciawi Intersection to Bogor Interchange.	May 28, 1979
69. Hyundai	Report of Semi-final Inspection of Section A opened to Public Traffic (excluding the Bogor Interchange).	May 29, 1979

Cont'd

SECTION VI APPENDIX

II. 1. OUTGOING CORRESPONDENCE

<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
70. Bina Marga	Cost of the Contractor's miscellaneous Materials on Hand.	May 30, 1979
71. Hyundai	Temporary Striping and Omission of Seal Coat at the Ciawi Intersection Transition.	May 30, 1979
72. Bina Marga	Transmittal of Contract Change Order no. 87, Suppl. no. 3, Additional Dollar Shipping Deductions/Rupiah Credits.	May 30, 1979
73. Bina Marga	125 KVA Generator.	
74. Hyundai	ESSO Asphalt Cement on Hand.	May 30, 1979
75. Hyundai	Guard Rail in Ciawi Section.	May 31, 1979

VI. 2. CONTRACTOR EQUIPMENT/MATERIAL ON THE SITE

(May 25, 1979)

EQUIPMENT

<u>Type</u>	<u>Manufacturer</u>	<u>Origin</u>	<u>Source</u>	<u>Q'ty</u>	<u>Condition</u>
Bulldozer HD21B	FIAT ALLIS	U.S.A.	U.S.A.	1	New (1:B)
Bulldozer HD16B	FIAT ALLIS	U.S.A.	U.S.A	13	New
Bulldozer D-8	CATER PILLAR	U.S.A.	GUAM	1	Used
Bulldozer D50A	KOMATSU	JAPAN	R.O.K.	3	Used
Loader 645B	FIAT ALLIS	U.S.A	CIBINONG	1	New
Loader 645B	FIAT ALLIS	U.S.A.	U.S.A.	10	New
Loader CAT-950	CATER PILLAR	U.S.A	THAILAND	2	New
Loader CAT-950	CATER PILLAR	U.S.A	GUAM	1	New
Motor Grader M-150	FIAT ALLIS	U.S.A.	SAUDI A	1	Used
Motor Grader M-100	FIAT ALLIS	U.S.A	U.S.A	9	New
Motor Grader GD-37	KOMATSU	JAPAN	SAUDI A	2	New
Motor Grader 12A	CATER PILLAR	U.S.A	SAUDI A	1	Used
Motor Grader 13K	CATER PILLAR	U.S.A	SAUDI A	1	Used
Compactor 824B	CATER PILLAR	U.S.A	R.O.K.	1	Used
Compactor 815	CATER PILLAR	U.S.A	U.S.A	2	New
Vib. Roller CA25PD	DYNAPAC	SWEDEN	SWEDEN	2	New
Vib. Roller CA25A	DYNAPAC	SWEDEN	SWEDEN	1	New
Vib. Roller CC20	DYNAPAC	SWEDEN	SWEDEN	1	New
Double Vib. Roller	MIKASA	JAPAN	JAPAN	3	New
Double Vib. Roller	TAIKYOKU	JAPAN	JAPAN	2	New
Vib. Roller CH47	DYNAPAC	SWEDEN	SWEDEN	3	New
Vib. Roller CH44	DYNAPAC	SWEDEN	THAILAND	2	Used
Farm Tractor F-5000	FORD	U.S.A	U.S.A	4	New
Farm Tractor F-5000	FORD	U.S.A	THAILAND	3	Used
Tandem Roller TH-12D	GALION	U.S.A	U.S.A	4	New
Tandem Roller WT 62,82	WATANABE	JAPAN	THAILAND	2	New
Tire Roller KR-20	KAWASAKI	JAPAN	JAPAN	1	New
Tire Roller KR-30A	KAWASAKI	JAPAN	JAPAN	2	New
Tire Roller C550A	HYSTER	U.S.A	U.S.A	4	New
Tire Roller WP-15	WATANABE	JAPAN	THAILAND	1	Used
Tire Roller KR-15B	KAWASAKI	JAPAN	SAUDI A	4	Used
AP Plant	HYUNDAI	KOREA	KOREA	1	New
AP Plant KA-50	BARBER GREENE	BRAZIL	BRAZIL	1	New
AP Finisher SA-41	BARBER GREENE	ENGLAND	ENGLAND	2	New
AP Finisher SA-35	BARBER GREENE	ENGLAND	THAILAND	3	Used
Distributor F70, EYU	ETNYRE	U.S.A	U.S.A	1	New

SECTION VI. . . . APPENDIX

Page 2 of 4

VI. 2. . . . CONTRACTOR EQUIPMENT LIST (Cont'd)

<u>Type</u>	<u>Manufacturer</u>	<u>Origin</u>	<u>Source</u>	<u>Q'ty</u>	<u>Condition</u>
AP Curb Machine NC-15A	NIIGATA	JAPAN	JAPAN	1	New
Power Broom W/15HP Eng.	LITTLE GIANT	HYUNDAI	HYUNDAI	2	New
Power Broom W/15HP Eng.	HYUNDAI	U.S.A	THAILAND	1	Used
Agg.Spreader Box NS45P	NIIGATA	JAPAN	THAILAND	1	Used
Agg.Spreader Box NS45P	NIIGATA	JAPAN	R.O.K.	3	Used
Chip Spreader Box	WISCONSIN	U.S.A	U.S.A	1	New
Crusher Conc.2000 \$/hr.	HYUNDAI	KOREA	KOREA	1	New
Crusher Concrete	TELSMITH	U.S.A	U.S.A	2	New
Crusher Concrete	KURIMOTO	THAILAND	THAILAND	1	Used (1:D)
Crusher Jaw	WILLIAMS	THAILAND	THAILAND	1	New
Crusher Roll	HYUNDAI	KOREA	R.O.K.	1	New
Crusher Jaw	OTSUKA	JAPAN	JAPAN	1	New
Excavator CAT225	CATER PILLAR	U.S.A	U.S.A	2	New
Excavator MC-100	POCLAIN	FRANCE	FRANCE	1	New
Back Hoe/Tractor 755	FORD	U.S.A	CIBINONG	2	Used
Crane 70 \$ 670TC	P & H	U.S.A.	U.S.A	1	New
Crane 40 \$ HC78BC	LINK BELT	JAPAN	JAPAN	1	New
Crane 40 \$ 440-SP	KOEHRING	U.S.A	U.S.A	1	New
Crane 32 \$ 430TC	P & H	JAPAN	THAILAND	1	Used
Crane 25 \$ 2420	AMERICAN HOIST	U.S.A	U.S.A	1	Used
Excavator UH30	HITACHI	JAPAN	JAPAN	2	New
Pile Hammer K-25	KOBE	JAPAN	JAPAN	1	New
Batch Plant ND-5YD	JOHNSON	U.S.A	U.S.A	3	New
Truck Mixer NT0350B	ISUZU	JAPAN	JAPAN	5	New
Conc.Mixer 0.4M ³	SUMITOMO	JAPAN	JAPAN	2	New
Conc.Mixer 0.2M ³	YANMAR	JAPAN	THAILAND	2	Used (2:D)
Sheep Foot Roller Single	HYUNDAI	KOREA	R.O.K.	1	Used
Fork Lift Truck 5 \$	T.C.M.	JAPAN	JAPAN	1	New
Fork Lift Truck 3.5\$	KOMATSU	JAPAN	JAPAN	1	New
Winch 2 \$	WILLIAMS	THAILAND	SINGAPORE	2	New
Generator 500KVA	A.E.G.	GERMANY	SINGAPORE	2	New
Generator 300 KVA	KOMATSU	JAPAN	JAPAN	2	New
Generator 175KVA	FIAT ALLIS	U.S.A	U.S.A	3	New
Generator 135KVA	DEUTS	GERMANY	THAILAND	1	Used (1:D)
Generator 125KVA	CATER PILLAR	U.S.A	U.S.A.	1	New
Generator 90KVA	ALLIS CHALMERS	U.S.A	U.S.A	1	New
Generator 80KVA	CUMMINS	U.S.A	U.S.A	1	New
Generator 62KVA	NISSAN	JAPAN	THAILAND	3	Used (3:D)
Generator 80KVA	ISUZU	JAPAN	THAILAND	1	Used
Generator 45KVA	NISSAN	JAPAN	THAILAND	2	Used (2:D)
Generator 60KVA	FORD	U.S.A	THAILAND	1	Used
Generator 34KVA	BUKH	ENGLAND	U.K	1	New
Generator 30KVA	G.M.	U.S.A	U.S.A	1	New
Generator 10KVA	YANMAR	JAPAN	JAPAN	1	New

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VI. 2. CONTRACTOR EQUIPMENT LIST (Cont'd)

<u>Type</u>	<u>Manufacturer</u>	<u>Origin</u>	<u>Source</u>	<u>Q'ty</u>	<u>Condition</u>
Air Compressor PDS-370	HOKUETSU	JAPAN	JAPAN	1	New
Air Compressor PDR-370	HOKUETSU	JAPAN	SAUDI A	1	Used
Air compressor 185CFM	JOY	U.S.A.	U.S.A.	2	New
Air Compressor RV-120	NITSUI SÈIKI	JAPAN	NEW GUINEA	1	Used
Air Compressor 175CFM	HOKUETSU	JAPAN	JAPAN	2	Used
Air Compressor 7.5 CFM	MITSUBISHI	JAPAN	THAILAND	2	Used
Air Compressor 7.5 CFM	SONCO & IHS	GERMANY	THAILAND	2	Used
Air Compressor 63 CFM	MEIJI	JAPAN	JAPAN	1	New
Air Compressor 63 CFM	MEIJI	JAPAN	THAILAND	1	New
Welding Machine G-203	HOBART	U.S.A.	U.S.A.	5	New (2:D)
Welding Machine/Engine	DENYO	JAPAN	INDONESIA	2	New
Stripping Machine 8000	WISCONSIN	U.S.A.	THAILAND	1	Used
Conc. Vibrator ALN5HP	KOEHRING	U.S.A.	U.S.A.	20	New (20:D)
Conc. Vibrator TAB/3/753HP	WACKER	GERMANY	INDONESIA	14	New (13:D)
Conc. Vibrator EY/18-2d 7HP	MIKASA	JAPAN	JAPAN	5	New (5:D)
Soil Compactor BS50K	WACKER	GERMANY	INDONESIA	35	New (23:D)
Soil Compactor CO106	DYNAPAC	SWEDEN	SWEDEN	11	New (11:D)
Soil Compactor CM-13	DYNAPAC	SWEDEN	SWEDEN	19	New (19:D)
Water Pump Ø 8"		GERMANY	SINGAPORE	3	New (1:D)
Water Pump Ø 6"	YANMAR	JAPAN	JAPAN	6	New (4:D)
Water Pump Ø 4"	ROBIN	JAPAN	JAPAN	10	New (9:D)
Water Pump Ø 4" Y	YANMAR	JAPAN	JAPAN	4	New (3:D)
Clam Shell Bucket	HYUNDAI	KOREA	R.O.K.	2	Used
Dragline Bucket	HYUNDAI	KOREA	R.O.K.	1	Used
Dump Truck 16 $\frac{3}{4}$ NV112KL	FUSO	JAPAN	SAUDI A	9	Used
Dump Truck 16 $\frac{3}{4}$ ZM101E	HINO	JAPAN	JAPAN	8	New
Dump Truck 16 $\frac{3}{4}$ FV112JD	FUSO	JAPAN	JAPAN	16	New (1:D)
Dump Truck 8 $\frac{3}{4}$ KB-113	HINO	JAPAN	JAPAN	83	New (15:D)
Dump Truck 8 $\frac{3}{4}$ TA14	HINO	JAPAN	GUAM	8	Used (5:D)
Trailer & Tractor	WHITE	U.S.A.	U.S.A.	1	New
Trailer & Tractor	HINO	JAPAN	THAILAND	1	Used
Trailer & Tractor	HINO	JAPAN	CIBINONG	1	Used
Tractor	HINO	JAPAN	CIBINONG	2	Used
Jeep Bronco	FORD	U.S.A.	U.S.A.	5	New (3:D)
Jeep Land Cruiser	TOYOTA	JAPAN	INDONESIA	7	New
Wagon Jeep Ambulance	TOYOTA	JAPAN	INDONESIA	1	Used (D:1)
Jeep Landrover	LANDROVER	ENGLAND	THAILAND	3	Used (3:D)
Pick Up Hi Lux	TOYOTA	JAPAN	SINGAPORE	11	New
Pick Up	DATSUN	JAPAN	INDONESIA	8	Used
Pick Up Hi Ace	TOYOTA	JAPAN	JAPAN	2	New (1:D)
Pick Up D-300	DODGE	U.S.A.	U.S.A.	5	New (2:D)
Micro Bus	TOYOTA	JAPAN	SINGAPORE	2	New

VI. 2. CONTRACTOR EQUIPMENT LIST (Cont'd)

<u>Type</u>	<u>Manufacturer</u>	<u>Origin</u>	<u>Source</u>	<u>Q'ty</u>	<u>Condition</u>
Sedan Winston	HOLDEN	AUSTRALIA	INDONESIA	1	New
Sedan 160G	DATSUN	JAPAN	INDONESIA	2	New
Sedan Corona	TOYOTA	JAPAN	INDONESIA	3	New
Fuel Tank Truck	NISSAN	JAPAN	THAILAND	1	Used (1:D)
Fuel Tank Truck	I.H.	U.S.A.	KOREA	2	Used (2:D)

Note : A. Deadlined for parts
B. Deadlined for repairs
C. Operational set idle
D. Unserviceable
(Salvage only)

SECTION VI. APPENDIX

VI. 3. CONTRACTOR MATERIAL LIST

STATUS OF MATERIAL ON HAND26 April to 25 May, 1979

<u>1. Imported Material from Korea</u>	<u>Total Q'ty Delivered</u>	<u>Q'ty in Warehouse</u>
Cement	15,500	Tons No Stock
Plywood	36,163	Sht. No Stock
Steel Wire for Re-Bar & Conc. Form	90	Tons No Stock
Steel Plate	279.35	Tons No Stock
Re-Bar deformed	6,472	Tons 28.019 Tons
Steel Wire ϕ 6 m/m	360	Tons No Stock
Channel & I-Beam	33.30	Tons No Stock
Angle	58.80	Tons No Stock
Binding Wire #8 & #10	91	Tons No Stock
Asphalt Cement	1,500	Tons No Stock
Galvanized Steel Wire #6 & #10	15.80	Tons 0.05 Tons
Barbed Wire	654,400	M 185,059 M
<u>2. Imported Material from Singapore</u>		
Asphalt Cement	45,560.881	Tons 495.289 Tons
Steel Fence Post	21,100	Pcs. 1,339 Pcs.
<u>3. Imported Material from Japan</u>		
P.C Strand Wire ϕ 1"	890.859	Tons 18.903 Tons
<u>4. Imported Material from Thailand</u>		
RC & MC	600	Tons 97 Tons
R.S. - 2 K	380	Tons 66.80 Tons
<u>5. Imported Material from U.S.A</u>		
H-Pile	4,925.40	Tons 0.973 Tons
Wire Fences	1,318,627	Sq.Ft. No Stock
Single Gate 4 m	20	Ea No Stock
Double Gate 6 1/2 m	20	Ea No Stock
Lot Steel Post W/Cap. & Access	80	Ea No Stock
Paint, ready mixed	23,070.848	Ltr. 4,010.62 Ltr.
<u>6. Locally Purchased Material</u>		
Lumber	6,044.885	Cu.M 1.495 Cu.M
Paint	13,452.67	Ltr. No Stock
Corrgt. Asbestos Cement Sheet	7.199	Ea No Stock
Round Steel Bar	182.278	Tons No Stock
Clay Brick	438,580	Ea No Stock
Nails	146.36	Tons 0.417 Tons
Steel Wire ϕ 6 m/m	22	Tons No Stock
R.S. - 2 K	142.40	Tons No Stock
Deformed Bar	553.905	Tons 16.401 Tons
Asphalt Cement	1,010.35	Tons No Stock
Plywood	9,268	Sht. No Stock
Cement	18,440.98	Tons 139.88 Tons

SECTION VI. . . . APPENDIX

VI. 4. . . . WORK PROGRESS SUMMARY

WORK PROGRESS REPORT NO.

(As of May 25, 1979)

Work Item	Section A		Section B	
	Work Done	%	Work Done	%
Mobilization	3/3	100.00	3/3	100.00
Clearing & Grubbing	80.95 Hec.	50.95	209.47 Hec.	83.79
Unclassified Excavation	1,219,050 Cu.M	100.00	2,448,908 Cu.M	97.49
Muck Excavation	48,881.78 Cu.M	97.76	17,533.68 Cu.M	100.00
Borrow Excavation	715,590 Cu.M	100.00	808,821 Cu.M	98.88
Ditch Excavation	25,853.40 Cu.M	100.00	21,046 Cu.M	100.00
Channel Excavation	8,132.9 Cu.M	73.94	20,090 Cu.M	80.36
Structure Excavation	48,982 Cu.M	81.64	105,581 Cu.M	100.00
Bridge Excavation	14,356.77 Cu.M	75.56	11,382 Cu.M	81.30
A. T. B.	221,066.66 Ton	100.00	326,417.20 Ton	88.70
Subgrade Modification	207.07 M2	0.26	-	-
Hot Bit Conc. Pavement	77,945.22 Ton	97.68	107,809.02 Ton	98.01
Asphalt Cement	17,226.63 Ton	100.00	23,846.93 Ton	94.26
Tack Coat	143 Ton	31.78	206.98 Ton	89.99
Prime Coat	4.03 Ton	0.54	10.32 Ton	20.64
Seal Coat	187,727.59 M2	88.76	300,308.83 M2	100.00
Agg. Base Course	114,771.25 Cu.M	100.00	166,588.89 Cu.M	97.42
H - Pile, Furnished	27,632.66 M	100.00	33,064.74 M	77.49
H - Pile, Driven	2,132 Ea	100.00	2,711 Ea	100.00
H - Pile, Test	8 Ea	80.00	17 Ea	100.00
Load, Test	-	-	2 Ea	100.00
Concrete A	954.48 Cu.M	100.00	742.90 Cu.M	100.00
Concrete AA	15,148.47 Cu.M	97.73	12,737.55 Cu.M	100.00
Concrete C	227.78 Cu.M	100.00	14.61 Cu.M	29.22
Re - Bar	1,782,624 Kg	100.00	1,471,761 Kg	100.00
31+190 E & W Bridge	-	-	100.00 %	100.00
35+415 E & W Bridge	-	-	100.00 %	100.00
38+292 E & W Bridge	-	-	100.00 %	100.00
40+456 E & W Bridge	-	-	100.00 %	100.00
41+502 E & W Bridge	-	-	100.00 %	100.00
43+260 E & W Bridge	-	-	100.00 %	100.00
44+755 Bridge	-	-	100.00 %	100.00
46+645 Bridge	-	-	100.00 %	100.00
47+390 Bridge	-	-	100.00 %	100.00
48+860 E & W Bridge	-	-	100.00 %	100.00

(Cont'd)

SECTION VI. APPENDIX

VI. 4. WORK PROGRESS SUMMARY (Cont'd)

Work Item	Section A		Section B	
	Work Done	%	Work Done	%
51+760 N & S Bridge				49.64
53+730 Bridge			100.00 %	100.00
55+194 Bridge			100.00 %	100.00
56+535 Bridge			100.00 %	100.00
57+580 Bridge			100.00 %	100.00
11+932 W Bridge	95.00 %	95.00		
13+587 W Bridge	95.00 %	95.00		
15+540 W Bridge	95.00 %	95.00		
17+050 Bridge	95.00 %	95.00		
18+017 Bridge	95.00 %	95.00		
18+073 E & W Bridge		95.00		
18+800 E & W Bridge		100.00		
19+980 E & W Bridge		100.00		
20+864 E & W Bridge		100.00		
21+469 E & W Bridge		100.00		
25+465 E & W Bridge		100.00		
29+800 E & W Bridge		100.00		
10+860 (B.C.) Bridge	100.00 %	100.00		
12+270 N & S Bridge.		100.00		
R. C. P. ϕ 40	112.34 M	43.04	273.85 M	100.00
R. C. P. ϕ 50	131.20 M	100.00	720.28 M	100.00
R. C. P. ϕ 60	1,613.58 M	86.43	2,825.03 M	100.00
R. C. P. ϕ 80	2,163.04 M	95.25	718.67 M	100.00
R. C. P. ϕ 100	371.45 M	49.13	1,042.44 M	100.00
R. C. P. ϕ 120	1,109.70 M	68.46	2,112.88 M	100.00
C. S. P. ϕ 60	50.70 M	16.90	262.19 M	100.00
C. S. P. ϕ 80	-	-	-	-
Man Hole Type 1	-	-	-	-
Man Hole Type 2	-	-	-	-
Inlet Type 1	72.75 EA	100.00	113 EA	100.00
Inlet Type 2	1 EA	3.85	3 EA	18.75
20 cm P.C.P.	23,555.70 M	100.00	53,490.90 M	100.00
Guard Rail	2,878.15 M	88.56	5,710 M	100.00
Wire Fence	35,000 M	73.68	59,099.12 M	97.68
Gate Single 4.0 M	-	-	1 EA	6.25
Gate Double 6.5 M	-	-	4 EA	22.22
Concrete Curb Type 1	724.40 M	46.44	4,331.04 M	100.00
Concrete Delineation	2,970.55 M	100.00	-	-
Bit Concrete Curb	-	-	-	-
Loose Rip-rap	3,142.55 Ton	100.00	2,027.15 Ton	100.00

(Cont'd)

SECTION VI. . . . APPENDIX

VI. 4. WORK PROGRESS SUMMARY (Cont'd)

Work Item	<u>Section A</u>			<u>Section B</u>		
	<u>Work Done</u>		<u>%</u>	<u>Work Done</u>		<u>%</u>
M.R.P.W. Type A	13,174.14	M2	100.00	8,431.66	M2	34.99
M.R.P.W. Type B	8,356.45	M2	100.00	9,055.06	M2	100.00
Bit, Paved Waterway	-		-	-		-
R. O. W.	-		-	-		-
Top Soil	-		-	-		-
Sprigging	9,859.78	A	100.00	9,533.17	A	100.00
Sodding						
Slope Protection	1,383.96	M2	100.00	2,620.77	M2	54.04
Road Way Marking	80,031	M	64.28	129,843	M	77.89
Road Sign	-		-	-		-
Settlement Plate	25	Ea	50.00	122	Ea	100.00
Riser Pipe	228	EA	65.14	920	EA	100.00
Junction Box	250	Ea	100.00	674	Ea	100.00

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JACORAWI HIGHWAY PROJECT
 STATUS OF CONTRACT CHANGE ORDERS AND FUNDS
 SHEET 2 OF 3

VI. 6. LISTING OF CONTRACT CHANGE ORDER (Cont'd)

SECTION VI APPENDIX

CCO No.	DESCRIPTION	SECTION A or B	D A T E S				FUNDS						
			11C SUBMIT	11C ACCEPT	11A ESTIMATE	11B APPROVE	SECTION A		SECTION B		SECTION A & B COMBINED		
							RUPIAH	DOLLAR	RUPIAH	DOLLAR	RUPIAH	DOLLAR	RUPIAH
	ORIGINAL AUTHORIZATION					106,412.00	4,467.00	106,412.00	4,467.00	212,824.00	8,934.00	212,824.00	8,934.00
54	BR RAIL ANCHOR PILE R.V.S	B	17 May 77	21 May 77	13 Jun 77	13 Jun 77							
55	CONCRETE PILE R.V.S TO BRANCH	B	17 May 77	21 May 77	13 Jun 77	13 Jun 77							
56	BRANCH RAIL CHANNEL R.V.S	B	17 May 77	21 May 77	13 Jun 77	13 Jun 77							
57	REPLACE AIR 24+517/14+517	B	31 May 77	11 May 77	28 May 77	28 May 77							
58	DRY CONCRETE 23+523	A	16 Jun 77	8 Jun 77	13 Aug 77	13 Aug 77							
59	PAV'S WATERWAY 14+27/27+075	B	21 Jun 77	2 Jun 77	8 Aug 77	8 Aug 77							
50	REPAIR GRADE REVISIONS	A	27 Aug 77	1 Oct 77	14 Oct 77	14 Oct 77							
51	REPAIRMENT CON. VARIATION	A	7 Jun 77	17 Jun 77	17 Aug 77	17 Aug 77							
52													
53	TRIP PROCESS ROAD 44+745	B	14 Jun 77	20 Jun 77	11 Oct 77	11 Oct 77							
54	STAIRS 20+535 LETOUR ROAD	B	22 Jun 77	29 Jun 77	11 Oct 77	11 Oct 77							
55	IMPROVE DIRT 43+405/46+015	B	2 Jun 77	9 Jun 77	16 Nov 77	16 Nov 77							
56	DELETE AC CURBS/REAR FLUMES	A	24 Oct 77	10 Jun 77	13 Nov 77	13 Nov 77							
57	DELETE AC CURBS/REAR FLUMES	B	30 Oct 77	30 Oct 77	13 Nov 77	13 Nov 77							
58	UTILITY DUCTS 53+530	B	12 Apr 77	12 Apr 77	20 Apr 77	20 Apr 77							
48	SUPPL. 1" CAG. CULV. 23+500	A	23 Dec 77	24 Dec 77	11 Dec 77	6 Jun 77							
50	REVISIONS TO CONCRETE	B	28 Nov 77	24 Nov 77	23 Dec 77	23 Dec 77							
60	BRIDGE REVISIONS	A	11 Jun 77	11 Jun 77	3 Feb 77	3 Feb 77							
61	SOIL LAGER SURVEY TEST	A	15 Jun 77	15 Jun 77	19 Mar 77	19 Mar 77							
62	LOCAL MAT'L ESCALATION	A	1 Jun 77	1 Jun 77	3 Feb 77	3 Feb 77							
63		B	4 Jun 77	14 Jun 77	3 Feb 77	10 Feb 77							
64	CULVERT CHANGES, 1976	A	18 Jun 77	18 Jun 77	3 Feb 77	10 Feb 77							
65		B	21 Jun 77	21 Jun 77	3 Feb 77	10 Feb 77							
66	SAG CULVERT 75+647.50	A	18 Jun 77	18 Jun 77	3 Feb 77	10 Feb 77							
67	ASPHALT MIX REDUCED PRICE	B	10 Feb 77	10 Feb 77	15 Feb 77	4 Mar 77							
68	ASPHALT CEMENT COST REDUCTION	B	29 Jun 77	29 Jun 77	15 Feb 77	4 Mar 77							
69	TRIP SOO IN LIQU. OF SPRING	B	17 Mar 77	19 Mar 77	19 Mar 77	23 Mar 77							
70	BRIDGE GUNDER PRICE REDUCTION	B	19 Feb 77	19 Feb 77	13 Mar 77	13 Mar 77							
71													
72	CHANNEL, REV'S 12+270 BC/19+800	A	12 Apr 77	13 Apr 77	20 Apr 77	28 Apr 77							
73	BRIDGE 53+725 LIGHTING CONDUIT	B	1 Apr 77	2 Apr 77	18 Apr 77	20 Apr 77							
74	SAG CULVERT 13+163	A	14 Apr 77	14 Apr 77	20 Apr 77	28 Apr 77							
75	BRIDGE 51+760 REBAR PROTECTION	B	21 Apr 77	23 Apr 77	6 May 77	11 May 77							
59	SUPPL. 1" HWY SECT UNDER DRAINS	B	13 May 77	13 May 77	22 Jun 77	24 Jun 77							
76	REMOVING PIER 2, 3, 4 BR 57+580	B	11 July 77	30 June 77	11 July 77	19 July 77							
58	SUPPL. 1" ADD'L UTILITY DUCT 53+530	B	11 July 77	8 July 77	25 July 77	28 July 77							
77	DRAIN REV. B TOLL PLAZA RCB	B	29 May 78	8 July 78	11 Aug 78	14 Aug 78							
78	GAS LINE UTILITY DUCT X-INGS	B	13 Aug 77	24 Feb 78	10 Mar 78	6 Apr 78							
79	ELEC. CONDUIT STA 53+750	B	22 Aug 77	23 Aug 77	24 Aug 77	10 Sept 77							
52	NEW PAVEMENT REVISIONS	B	9 Sept 77	19 Sept 77	27 Sept 77	6 Oct 77							
80	PAVEMENT REVISIONS	A	8 Sept 77	19 Sept 77	17 Oct 77	18 Oct 77							
81	CULVERT CHANGES 1" B MONTHS 77	B	1 Nov 77	30 Nov 77	17 Dec 77	21 Dec 77							
82	BRIDGE STA 34+443	B											
83	DELETION OUTERING ROAD Ramp 71 B	B	8 July 78	8 July 78	11 Oct 78	14 Oct 78							

NOTE: CCO 78 PAY BY P.H. GAS

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SECTION VI. APPENDIX

VI. 7. STATUS OF FUNDS AND CONTINGENCY

STATUS OF US DOLLAR FUNDS (AS OF MAY 28, 1979)

I. PROBABLE FINAL COST FOR ITEM WORK AND CONTRACT CHANGE ORDER WORK (INCLUDING UNSIGNED CCO'S).

SECTION A	\$ 10,054,999.30
SECTION B	\$ 11,434,526.16
	<hr/>
SUBTOTAL	\$ 21,489,525.46

II. EXCESS MATERIALS ON HAND (90% OF INVOICE VALUE) \$ 104,594.33

III. PARTICIPATION IN PURCHASE OF EXCESS MATERIALS ON HAND FOR DELIVERY TO BINA MARGA (ADDN'L 10% + 25% MARKUP FOR OVERHEAD AND PROFIT) \$ 36,608.02

IV. PARTICIPATION IN MAJOR ITEM COST ADJUSTMENT ? ?

V. PARTICIPATION IN CLAIM PAYMENTS ... \emptyset

SUB-TOTAL CONTRACT WORK ...-..... \$ 21,630,727.81

VI. MAINTENANCE EQUIPMENT \$ 600,000.00

VII. ENGINEERS CONTRACT PLUS AMENDMENT No. 1 THRU NO. 5 \$ 3,077,207.00

VIII BANKING CHARGES \$ 45,000.00

IX. ADDITIONAL BANKING CHARGES DUE TO EXTENSION OF FDDA & TDD ?

SUBTOTAL KNOWN COSTS \$ 25,352,934.81

AUTHORIZED LOAN AMOUNT \$ 26,000,000.00

CONTINGENCY \$ 647,065.19

(Cont'd)

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SECTION VI. APPENDIX

VI. 7. STATUS OF FUNDS AND CONTINGENCY (Cont'd)

STATUS OF RUPIAH FUNDS

I. CONTRACTOR'S PAYMENTS

SECTION A ITEM WORK + CHANGE ORDERS	3,189,238,860
SECTION B ITEM WORK + CHANGE ORDERS	3,613,511,289
CONTRACT AMENDMENT NO. 1 (ORIG. AUTH.)	2,756,347,000
CONTRACT AMENDMENT NO. 2 (ORIG. AUTH.)	288,460,530
TOTAL RUPIAH DEVALUATION CLAIM (APPROX RP 400,000,000 AUTH. TO DATE)	741,302,731
CIAWI INTERSECTION & CIAWI TOLL PLAZA CLAIM (ENGR'S RECOMMENDED VALUE)	22,000,000
CONTINGENCY FOR OTHER CLAIMS, OVERRUN/ UNDERRUN PRICE ADJUSTMENTS. ETC.	400,000,000
PURCHASE OF EXCESS MATERIALS	25,000,000
	<hr/>
SUBTOTAL (PAYMENTS TO HYUNDAI)	11,035,869,410

II. ENGINEER'S PAYMENTS

ESTIMATED FINAL INVOICED AMT.	1,000,000,000
(NOTE : SAVINGS = 1,067,190,571 - 1,000,000,000 = 67,190,571)	

III. ESTIMATED TOTAL AMT. TO BE PAID (ENGR + CONTRACTOR)	<hr/>
	12,035,860,410

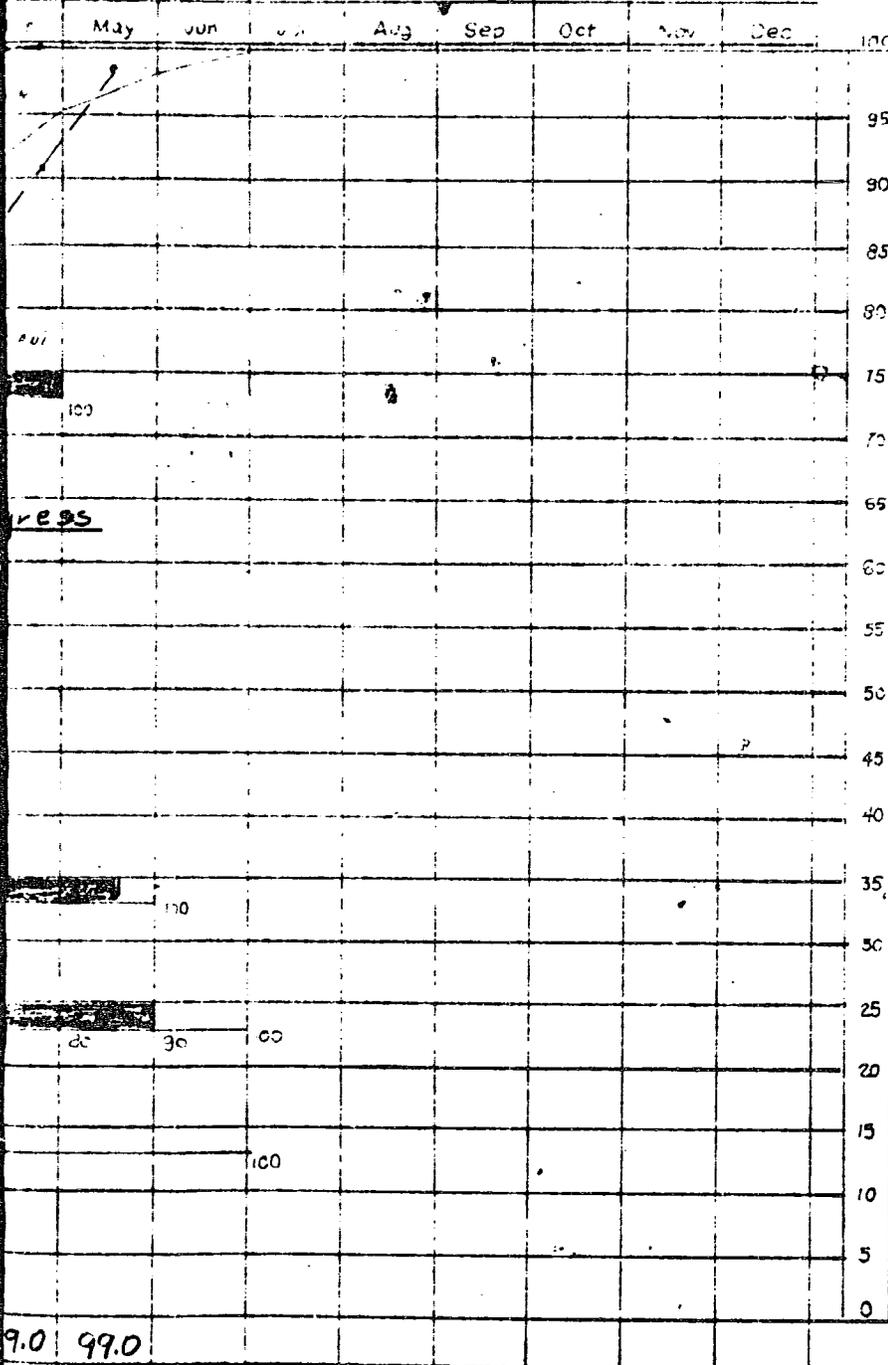
		Section to 5000R	Acrid.	Section to 5000R	Acrid.	Section to 5000R	Acrid.
		495,000	25	30%	Compl		
	4,000,000		78				85
	4,500,000	4,200,000	28	40			
	495,000	4,695,000	84	50			
		4,695,000	6				
		4,695,000	25				
	4,500,000	4,000,000	35	30			
		4,000,000	70				
	4,500,000	4,000,000	30				
		4,000,000	70	30			
		4,000,000	20	20			
		4,000,000	75	20			
		4,000,000	25	70			
	4,500,000	4,150,000	74	0		10	
		33,000	26				
		322,000	77	25			
		35,000	23	25			
Total Amount							
Section to 5000R	4,500,000						
Section to 5000R	5,500,000						
Command	5,100,000						

25%

Progress Schedule No. 1-1-1

OPERATOR: GENERAL INVESTMENTS
 ENGINEER: AMMAN & WHITNEY
 CONTRACTOR: TRANS-USA ENGINEERING ASSOCIATES, INC.
 HUNLEY CONSTRUCTION CO. LTD.

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9.0	99.0
1.1	98.0
3.1	98.7

Submitted by: _____
 Date: _____
 APPROVED BY: _____

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