

TIM Works

Investment Budget Execution Support for Rural Infrastructure
Development and Employment Generation



Completion Report

Rural Road Rehabilitation
Baucau District, Vemasse sub-district
Binagari to Cai-Cua 6 Km
July 2011

1 Introduction

1.1 TIM-Works

The Investment Budget Execution Support for Rural Infrastructure Development and Employment Generation (TIM-Works) contributes to employment generation, poverty reduction, economic growth and peace building through the rehabilitation, construction and maintenance of rural infrastructure using labour-based (equipment supported) work methods. The National Directorate of Employment of the Secretariat of State for Vocational Training and Employment (SEFOPE) implements the TIM-Works Project, with the technical assistance of the ILO and financial support from Norway, EC, Ireland and AusAID. SEFOPE is the key government counterpart institution with strong links to the Ministry of Infrastructure, Directorate of Roads, Bridges and Flood Control.

This is the Completion Report for the 6 Km rural road rehabilitation project, Binagari to Cai-Cua in Vemassee sub-district of Baucau District.

1.2 Rural road rehabilitation Binagari-Cai Cua

The selection of Binagari to Cai-Cua was based on a request from the local authorities and a feasibility assessment carried out by the Project. The road connects Suco Cai-Cua with the national road and Vemassee sub-district centre and contributes to evacuation of crops from the inner. See request from the local authorities overleaf.

The road was before rehabilitation impassable during the rainy season, but has now been opened for all year access. There are about 5 to 10 vehicles per passing day including some trucks and motorbikes, with traffic increasing day by day. This means that villagers can evacuate their crops to the nearby markets, and can bring goods and materials to their village. Some villagers have improved their houses with roof zinc with money earned from participating in the road works, and it is now easier to bring in construction materials to their villages.

The project targeted people living near the road who have no or little access to cash income. The Project encouraged women and youth to participate in the project, and all workers were registered in the Projects database with information about age gender, education and previous work experiences. In all, the project created 21,469 of workdays for 1,121 beneficiaries of which 416 were women (37.1%). The Project paid \$3 for unskilled workers, \$4 for gang leaders and \$5 for skilled workers.

There was an inaugural meeting in Cai Cua Suko at the upstart of the project and the project carried out gender sensitization training to the community working on the road.

"This project from SEFOPE and ILO has been very helpful to our people here, and now, the frequency of trucks, mikrolets and motorbikes coming to our suko increase day by day. Before, in the raining season when our people got sick, they had to travel by foot for 6 Km to reach the national road where they could find the Ambulance from Baucau. Now the Ambulance can reach our Suko any time, even in the raining season. I worked with project for 4 month and the money I have earned from project has helped my family to improve our living conditions and I can now send my son to school and buy the clothes and food as well" Quote from Mrs. Aginda Da Costa, one of the women participating in the road works

2 Request from Local Authorities


 REPÚBLICA DEMOCRÁTICA DE TIMOR LESTE
 (RDTL)
 SECRETARIA DE ESTADO DA FORMAÇÃO PROFISSIONAL E EMPREGO
 Centro de Emprego e Orientação Profissional de Baucau
 Rua Tirlote No. Mobile : 7299261

Ba : Sr. José Asá
 Director da Direcção Nacional Administração e das Finanças iha Dili

Cc : 1. Sr. José Maria da Costa Soares
 Director da Direcção Nacional do Emprego iha Dili
 2. Sr. Lucio Bere Taci
 Coordenador projecto Mão de Obra Intensivo iha Dili

Número : 26 / CEOP-CRB/IV/ 2009

Data : 24 de Fevereiro de 2009

Assunto : Hatoó Proposta dolar 2

Ho respeito tomak,
 Iha oportunidade ida ne'e Centro Emprego e Oreintação profissional de Baucau, liu husi Unidade Emprego e Formação Profissional Baucau, hato'o proposta Levantamento Nesisidade Comunidade husi chefe do Suco Cai-cua sub distrito Vemasse ba Sr. Director Direcção Nacional Administração e das Finanças toma konsiderasaun.

Obrigado.

24 de Fevereiro de 2009
 Coordenador

 (Antonio de Sausa)



27/07/2010

DISTRITO : BAUCAU
 SUB DISTRITO : VEMASSE
 SUCCO : CAI-CUA

Numero : 20 / IS / 02 / 2009
 Nusi : Chefe do Suco " Cai-Cua " Cai-cua
 Ba : Sekretario Formassun Profesional (Ailio)
 Assunto : Levante, ento Nesisidade Comunidade

Ho respeito Tomak,
 Basseia ba prekupasaun nebe povo infrenta iha base, liu-liu koalia kopaba kondisaun istrada nebe st hodi afeta ba la hetan acesu ba tratamento, no transforma produtu lokais mai mercado, maka ami inounido Povo mai hasoru no husu tulun ba sekretario formassun profesional (Ailio) se bele tau mos atensaun ba problema refere.

Programa servisu :
 A. Ramco Istrada 25 Km Montemace
 B. Aterro Istrada 10 Km spread Gravel
 C. Make Baleta 15 Km side draining

Ne,e mak sentemento nebe Povo infrenta, no ami informa, ho servisu hamutuk nebe diak ami hato,o obrigado wain.

Visto:
 Administrado Sub Distrito

 Freitas)
 Cai-cua, 28 - 02 2009
 Chefe do Suco Cai-cua:

 (Geraldino da Silva)
 Ed. Silva)

27/07/2010

3 Project Data

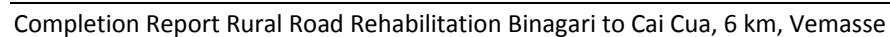
General Information	
Code	BAU/TAU/RH/2010/0001
Length	6 km
Duration	14 September 2010 - 14 July 2011 (4 months stoppage)
Total Cost	USD 173,641
Cost per Km	USD 28,940/km
Beneficiaries	1,121
Worker days	21,469
%Women	37.1 %

Cost break down (USD)		
Labour	69,432	40%
Equipment	64,760	37%
Materials and hand tools	34,449	19%
Other (cash advance and fuel)	5,000	4%

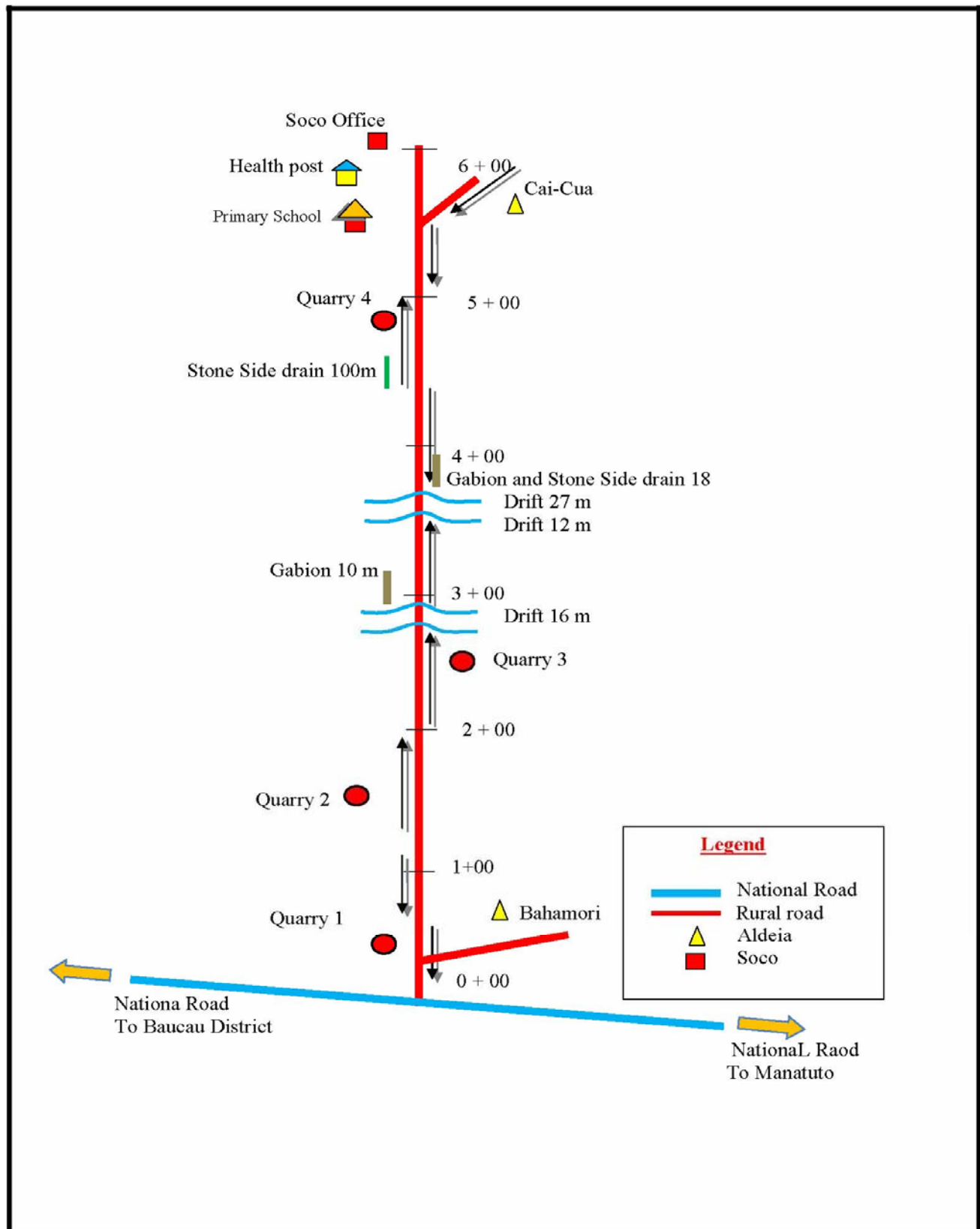
Equipment cost break down		
Item	Duration (work months total)	Cost USD
Dump Truck	19 months	54,920
Roller	11 months	9,840

Employment generation	
Number of beneficiaries	1,121
Number of worker days	21,469
Percentage of women	(416) 37.1 %

Population					
Suco	Aldeia	Households	Male	Female	Total
Cai-Cua	Bahamori	218	534	517	1,051
	Cai-Cua	80	169	180	349
Total:		298	703	697	1,400



5 Strip Map



6 Technical Information and Structures

Technical Information	
Sub Grade Width	4m
Carriageway	3.5m
Surface Material	White Gravel
Surface Thickness	12 Cm
Camber	7% -8%
Side Drain	
Bottom width	0.5 m
Depth	0.4 m to 0.5 m
Front Slope	1:1
Back Slope	3:1
Slope Embankment	1:2
Cross Culvert	Foundation lay by stone and mortar and the top Slab pre-cast reinforced concrete by panel. (Detail in Technical Drawing)
Location	- As Detail in Table : 8
Length of Each Location	- 5m

No	Type of Structure	Quantity	Cost (USD)
1	Stone Masonry Culvert 100 cm	1	1,200
2	Stone Masonry Culvert 80 cm	9	9,000
3	Drift 12 m	1	2,400
4	Drift 16 m	1	3,200
5	Drift 26 m	1	5,200
6	Stone Side drain	120m	2,400

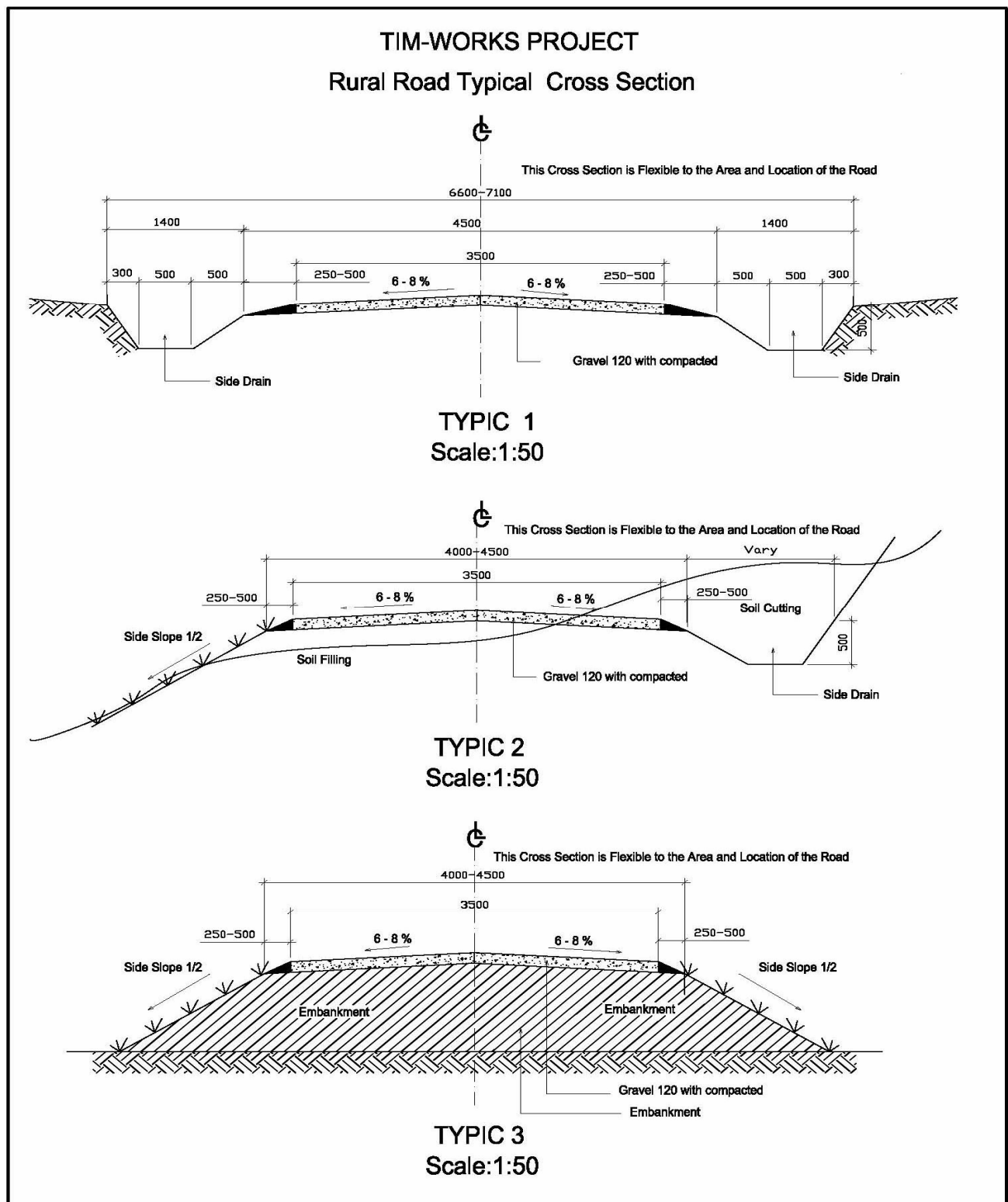
No	Chainage (PK)	Type of Structure	Dimension (m)	Remark
1	0 + 350	Box Culvert	0.80	New
2	2 + 100	Box Culvert	0.80	New
3	2 + 600	Box Culvert	1.00	New
4	3 + 700	Drift	16	New
5	2 + 950	Box Culvert	0.80	New
6	3 + 000	Gabion	10	New
7	3 + 100	Box Culvert	0.80	New
8	3 + 250	Box Culvert	0.80	New
9	3 + 450	Drift	12	New
10	3 + 460	Drift	27	New
11	3 +480	Stone side drain and Gabion	18	New
12	3 + 550	Pipe Culvert	0.80	New
13	4 + 250	Stone side drain	100	New
14	4 + 650	Box Culvert	0.80	New
15	5 + 250	Box Culvert	0.80	New
16	5 + 450	Box Culvert	0.80	New

7 Project work plan and progress

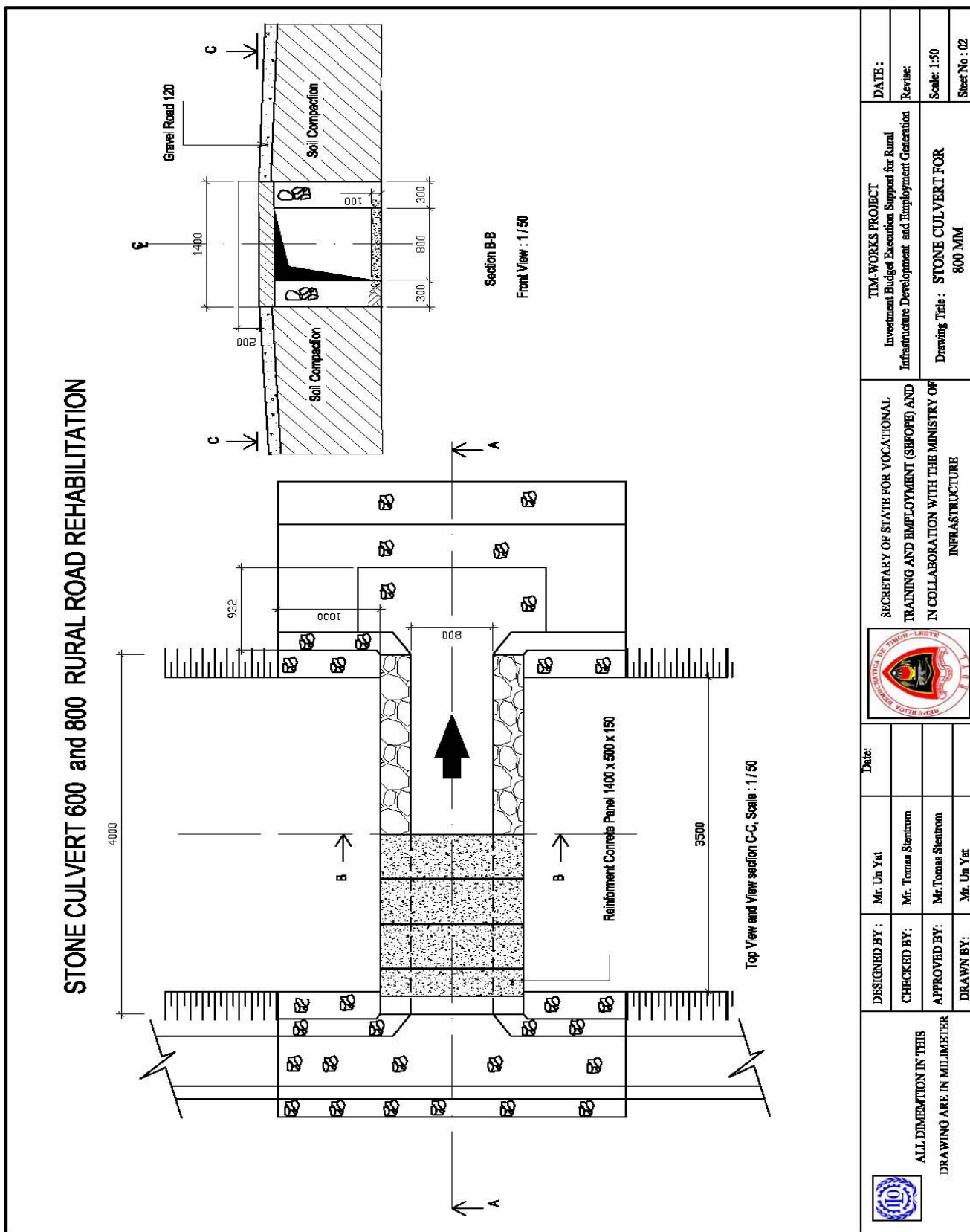
		Investment Budget Execution Support for Rural Infrastructure Development and Employment Generation TIM-WORKS													
Monthly Workplan & Physical Progress for the Month of 16 July 2011															
Road Name: Binagari to Cai-Cua 6 Km												District: Baucau			
Sub-District Vemasse												Date: 16.07.11			
Total Quantity				2010				2011						Percent. complet.	
Unit	Plan	Actual		Sept	Octo	Nov	Dec	Jan	Feb	Mar	Apr	May	June		july
Earthworks	km	6.0	6	Plan	0.5	1.5	1	0	1	1	1				
				Actual	0.5	1.5									
Gravel	km	6.0	6	Plan		1	1	0	1	1		1			
				Actual		0.5	0.8								
Stone Culvert	no	11	11	Plan		1	4	4	4	4	4				
				Actual		0	5								
Drift	no	3	3	Plan			1	1	1						
				Actual			1								
Cumulative Up to This Month															
Unit	Plan	Actual		Sept	Octo	Nov	Dec	Jan	Feb	Mar	Apr	May	June	july	
Earthwork	km	6.0	6	Plan	0.5	1.5	2.5	2.5	3.5	4.5	6				
				Actual	0.5	2	2.5								
Gravel	km	6.0	6	Plan		0.5	1	1	1.5	2.5	3				
				Actual		0.5	1.3								
Stone culvert	no	11	11	Plan		1	5	9	13	17	21				
				Actual		1	2								
Drift	no	3	3	Plan			1	2	2						
				Actual			1								
Remark: Planned: _____ Actual: - - - - -				RURAL ROAD REHABILITATION Date: 16.07.11 Revised Date:											
Prepared by:															
Mr. Un Yat Baucau Regional Engineer															

8 Technical Drawings

8.1 Typical Cross Section



8.2 Technical Drawing Stone Culvert 80 Cm

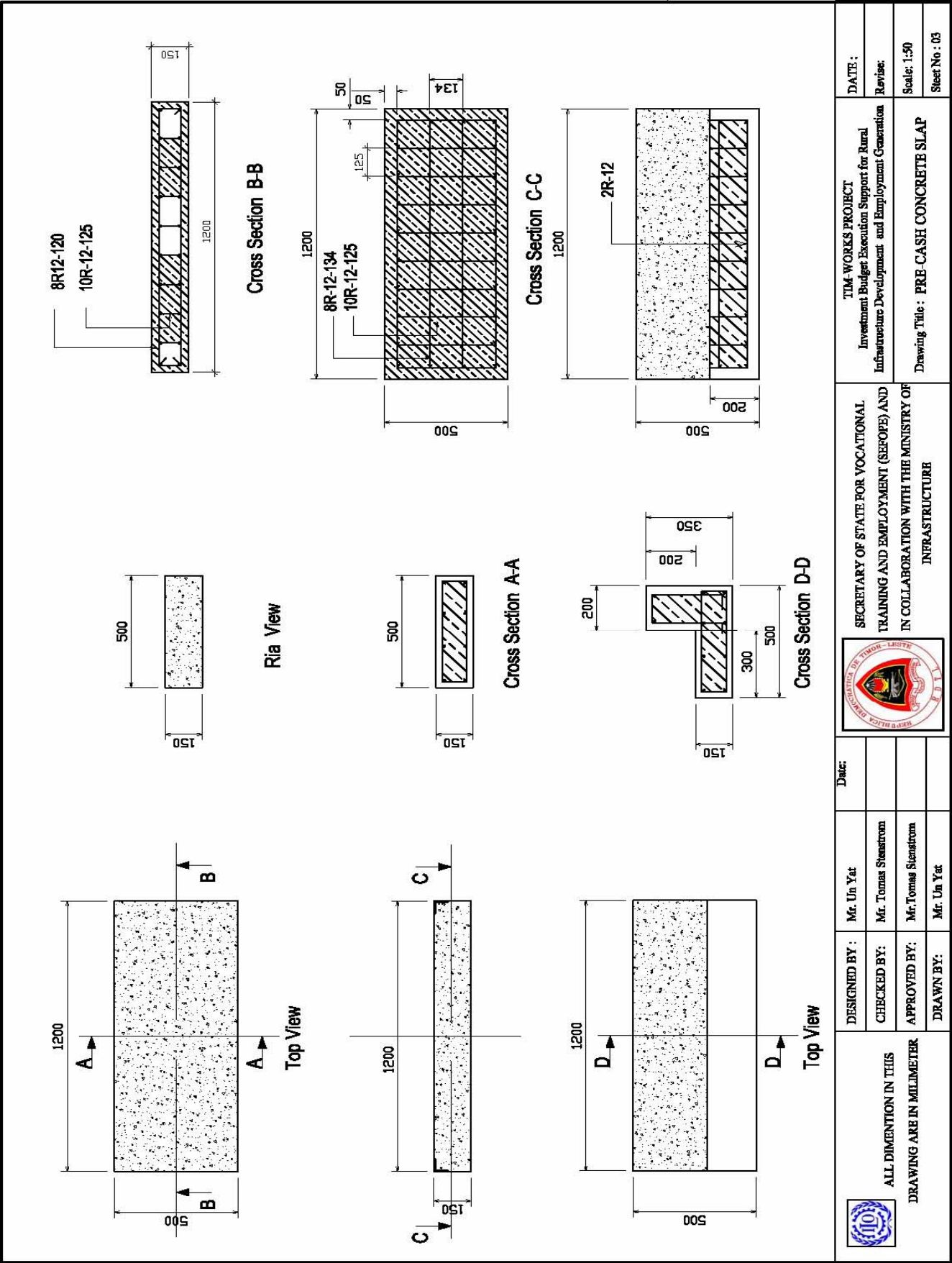


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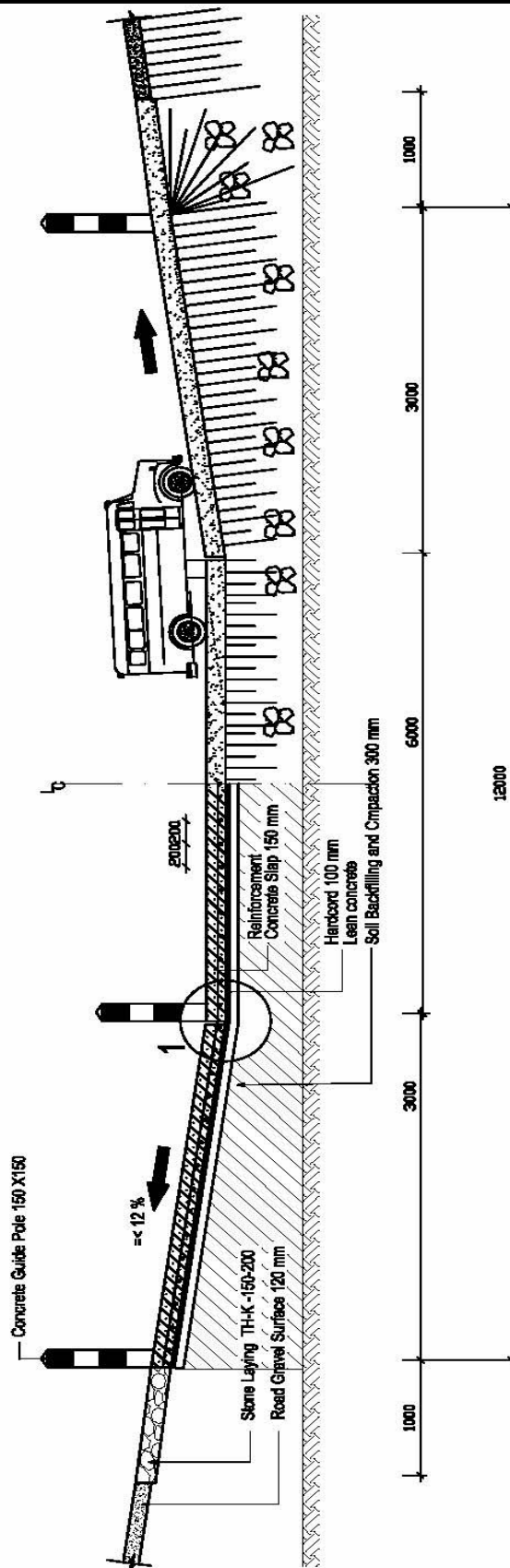
View Section A-A, Scale: 1 / 50

 ALL DIMENTION IN THIS DRAWING ARE IN MILLIMETER	DESIGNED BY :	Mr. Un Yat		SECRETARY OF STATE FOR VOCATIONAL TRAINING AND EMPLOYMENT (SEIOP) AND IN COLLABORATION WITH THE MINISTRY OF INFRASTRUCTURE	TIM WORKS PROJECT Investment Budget Execution Support for Rural Infrastructure Development and Employment Generation	DATE :
	CHECKED BY:	Mr. Tomas Sestrom				Revise:
	APPROVED BY:	Mr. Tomas Sestrom				Scale: 1:50
	DRAWN BY:	Mr. Un Yat				Drawing Title : STONE CULVERT FOR 800 MM



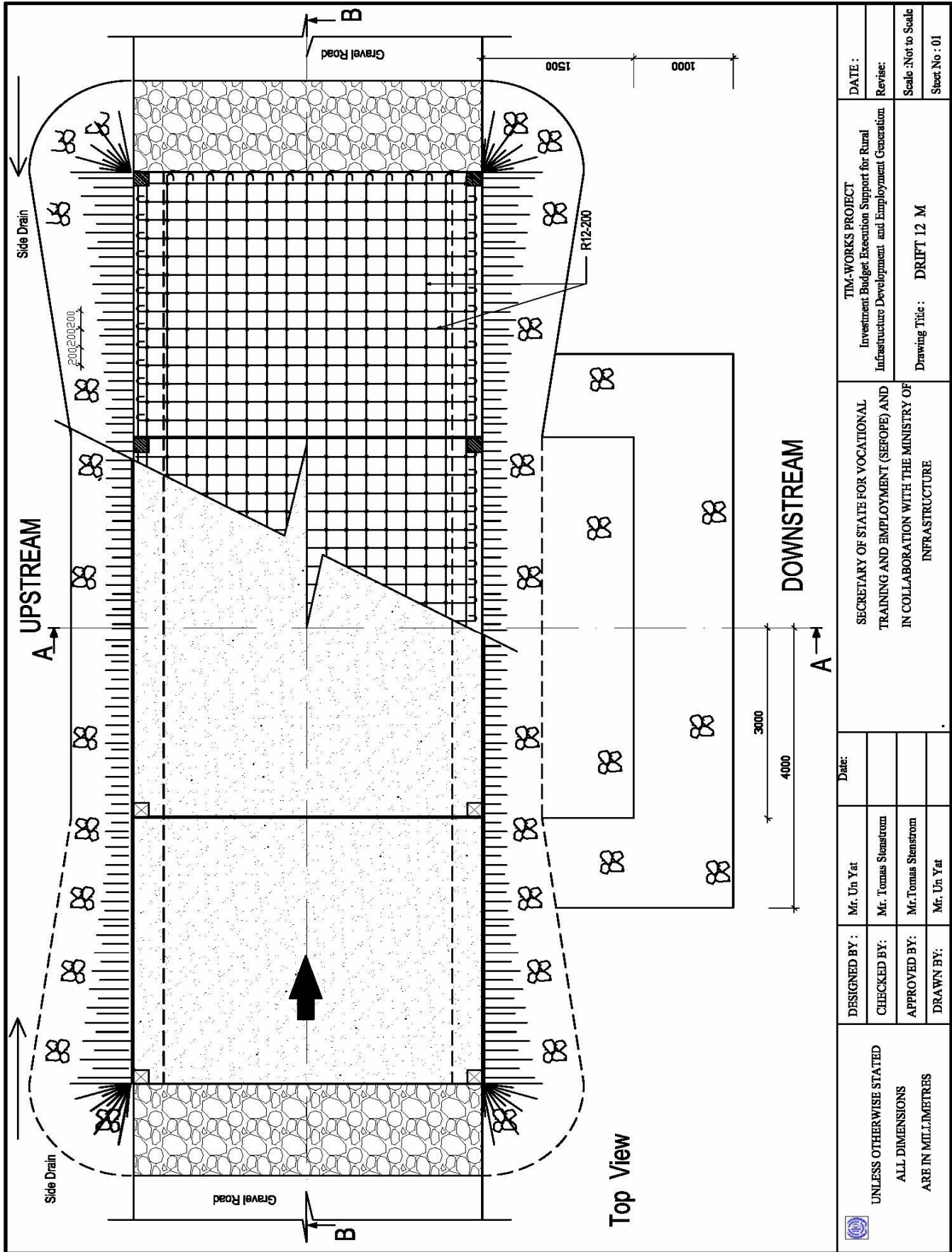
8.3 Technical Drawing For Drift 12 M and 16 M

DRIIFT 12 M FOR RURAL ROAD REHABILITATION IN TIM-WORKS PROJECT



Cross Section B-B

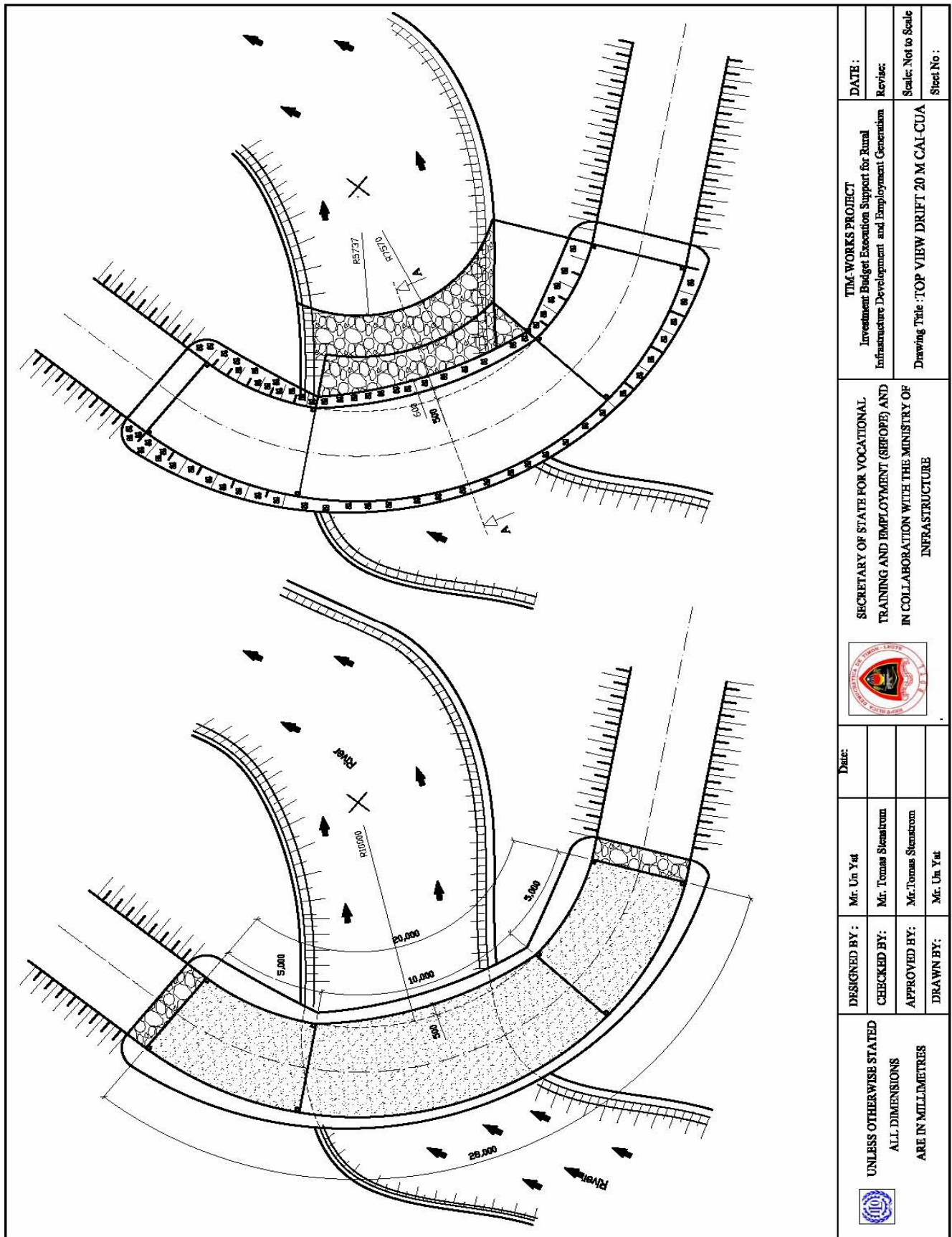
	UNLESS OTHERWISE STATED ALL DIMENSIONS ARE IN MILLIMETRES	DESIGNED BY :	Mr. Un Yat	Date:	TIM-WORKS PROJECT Investment Budget Execution Support for Rural Infrastructure Development and Employment Generation		DATE :
		CHECKED BY:	Mr. Tomas Steenstrom		Drawing Title : CROSS SECTION B-B		Review:
		APPROVED BY:	Mr. Tomas Steenstrom				Not to Scale:
		DRAWN BY:	Mr. Un Yat				Sheet No : 02





15

8.4 Technical Drawing For Drift 26 M





9 Project photos

Community meeting before project starts



Before rehabilitation



During rehabilitation



After rehabilitation



Construction of drift



Compaction works



Quality control using DCP



Payment of wages

