

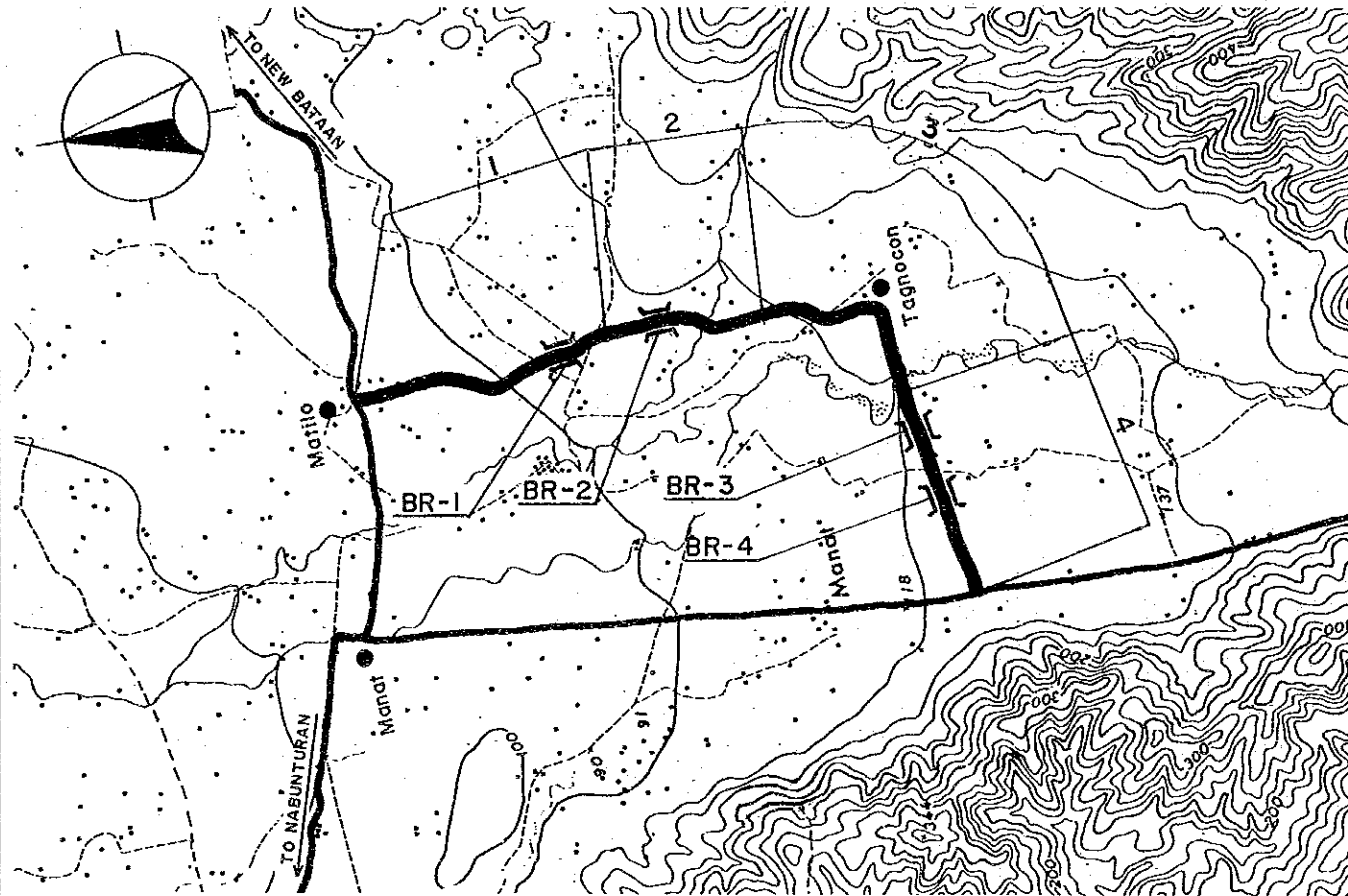
**THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT
IN THE REPUBLIC OF THE PHILIPPINES**

PRESENT CONDITION AND PROPOSED IMPROVEMENT

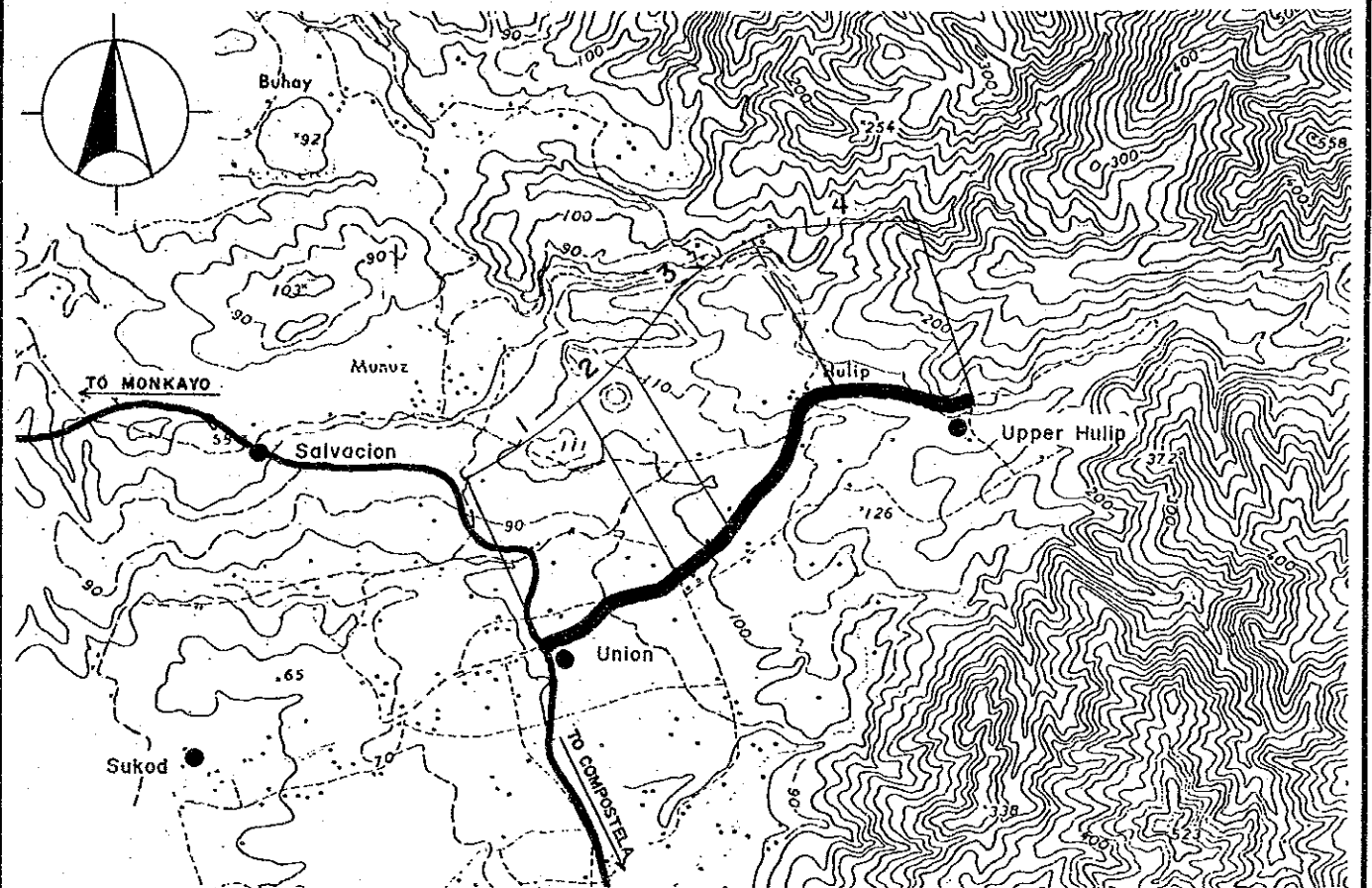
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Drawing No.
54

Road No: P128 Road Name: MATILO-MAINIT ROAD
Location: NEW BATAAN, DAVAO DEL NORTE



Road No: P129 Road Name: JCT. UNION-UPPER ULIP ROAD
Location: MONKAYO, DAVAO DEL NORTE



Road Classification	Minor Road (Provincial Road)			
Total Length	6.2 km			
Sub-section No.	1	2	3	4
Length (km)	1.8	1.2	1.7	1.5
Terrain	Flat	Rolling	Flat	Flat
Existing Road Surface	2.7-GRV (Bad)	3.2-GRV (Bad)	2.4-GRV (Bad)	2.6-GRV (Bad)
Proposed Improvement	Rehabil.	Rehabil.	Rehabil.	Rehabil.
Improvement Type	Gravel	Gravel	Gravel	Gravel
Surface Type	6.0	6.0	6.0	6.0
Carriageway Width(m)	1.0	.5	1.0	1.0
Shoulder Width (m)	TYPE 1-6 TYPE 1-6 TYPE 1-6 TYPE 1-6			
Ref. Typical Section	BR-1	BR-2	BR-3	BR-4
Bridge No.	Concrete	RCBC	Timber	Bailey
Existing Type	15	5	6	15
Length (m)	-	-	2Lane-Br	-
Proposed Type	-	-	8	-
Length (m)	-	-	1	-
No. of Spans				

Road Classification	Minor Road (Provincial Road)			
Total Length	3.8 km			
Sub-section No.	1	2	3	4
Length (km)	1.1	.4	1.3	1.0
Terrain	Flat	Flat	Flat	Rolling
Existing Road Surface	3.4-GRV (Bad)	3.6-GRV (Bad)	3.6-GRV (Bad)	2.8-GRV (Bad)
Proposed Improvement	Rehabil.	Rehabil.	Rehabil.	Rehabil.
Improvement Type	Gravel	Gravel	Gravel	Gravel
Surface Type	6.0	6.0	6.0	6.0
Carriageway Width(m)	1.0	1.0	1.0	.5
Shoulder Width (m)	TYPE 1-6 TYPE 1-6 TYPE 1-6 TYPE 1-6			
Ref. Typical Section				

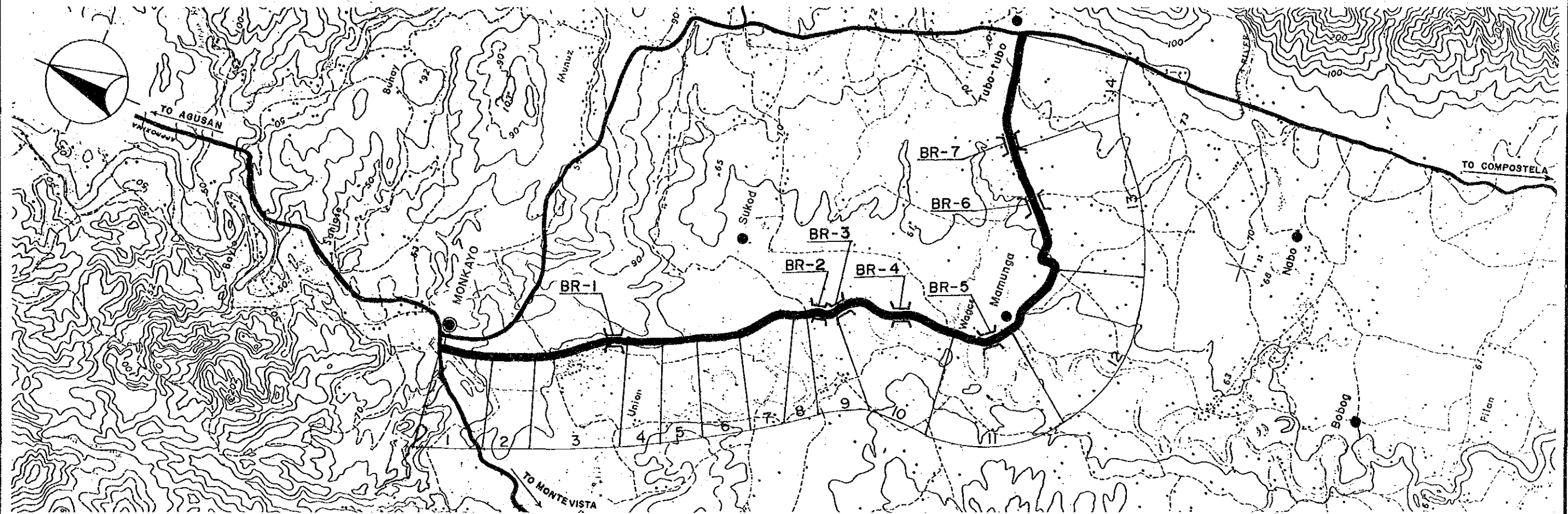
**THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT
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PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale
1:50,000

Drawing No.
55

Road No: P140 Road Name: MONKAYO-MAMUNGA-TUBO-TUBO ROAD
Location: MONKAYO, DAVAO DEL NORTE



Road Classification	Minor Road (Provincial Road)													
Total Length	10.3 km													
Sub-section No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Length (km)	.5	.6	1.1	.4	.4	.4	.8	.2	.3	1.1	.7	1.0	1.5	1.3
Terrain	Flat	Flat	Flat	Rolling	Rolling	Rolling	Rolling	Flat	Rolling	Rolling	Rolling	Flat	Flat	Flat
Existing Road Surface	4.0-GRV (Fair)	3.7-GRV (Bad)	3.2-EAR (V.Bad)	3.0-GRV (Bad)	3.0-GRV (Bad)	2.8-GRV (Fair)	2.8-GRV (Fair)	2.8-GRV (Fair)	2.8-GRV (Fair)	2.4-GRV (Bad)	2.4-EAR (Bad)	2.4-GRV (Bad)	2.8-GRV (Bad)	2.4-GRV (Fair)
Proposed Improvement	Widening	Rehabil.	Impr.-1	Rehabil.	Rehabil.	Widening	Widening	Widening	Widening	Rehabil.	Impr.-1	Rehabil.	Rehabil.	Widening
Improvement Type	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Shoulder Width (m)	1.0	1.0	1.0	.5	.5	.5	.5	1.0	.5	.5	.5	1.0	1.0	1.0
Ref. Typical Section	TYPE 4-4	TYPE 1-6	TYPE 2-8	TYPE 1-6	TYPE 1-6	TYPE 4-4	TYPE 4-4	TYPE 4-4	TYPE 4-4	TYPE 1-6	TYPE 2-8	TYPE 1-6	TYPE 1-6	TYPE 4-4
Special Treatment														
Flood Section Length	-	-	1000	-	-	-	-	100	-	-	-	-	-	-
Height	-	-	1.0	-	-	-	-	.5	-	-	-	-	-	-
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7							
Existing Type	Ford-Cr.	RCBC	RCBC	RCBC	Ford-Cr.	RCBC	Ford-Cr.							
Length (m)	-	5	5	5	-	5	-							
Proposed Type	2Lane-Sp	-	-	-	2Lane-Sp	-	2Lane-Br							
Length (m)	25	-	-	-	20	-	25							
No. of Spans	-	-	-	-	-	-	1							

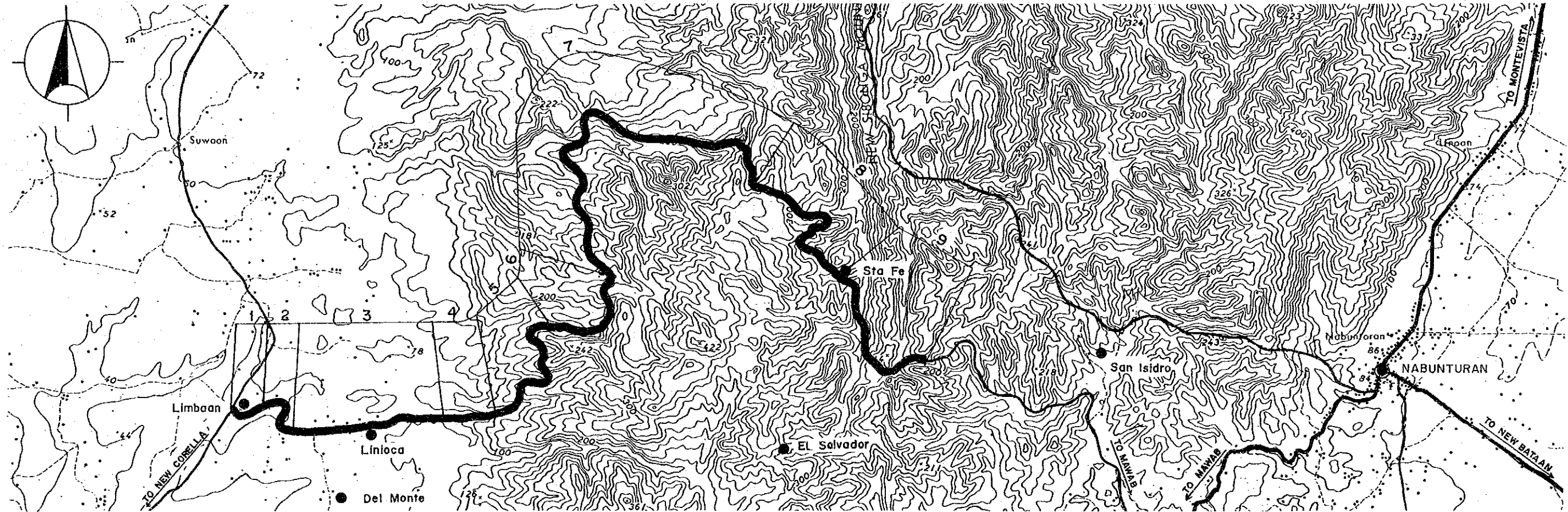
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IN THE REPUBLIC OF THE PHILIPPINES**

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale
1:50,000

Drawing No.
56

Road No: P146 Road Name: LIMBAN-EL SALVADOR ROAD
Location: NEW CORELLA, DAVAO DEL NORTE



Road Classification	Minor Road (Provincial Road)								
Total Length	16.2 km								
Sub-section No.	1	2	3	4	5	6	7	8	9
Length (km)	.5	.6	1.9	.6	1.8	1.4	5.1	2.0	2.3
Terrain	Flat	Flat	Flat	Rolling	Rolling	Rolling	Rolling	Rolling	Rolling
Existing Road Surface	3.2-GRV (Fair)	4.0-GRV (Fair)	2.8-GRV (Bad)	3.2-GRV (Bad)	2.4-GRV (V.Bad)	4.0-GRV (Bad)	2.4-GRV (V.Bad)	3.2-GRV (V.Bad)	4.0-GRV (Bad)
Proposed Improvement	Widening								
Improvement Type	Widening	Widening	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Shoulder Width (m)	1.0	1.0	1.0	.5	.5	.5	.5	.5	.5
Ref. Typical Section	TYPE 4-4	TYPE 4-4	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6
Special Treatment									
Steep Section Length	-	-	-	180	200	-	400	-	200
Bridge No.	BR-1	BR-2							
Existing Type	Bailey	Bailey							
Length (m)	12	22							
Proposed Type	-	-							
Length (m)	-	-							
No. of Spans	-	-							

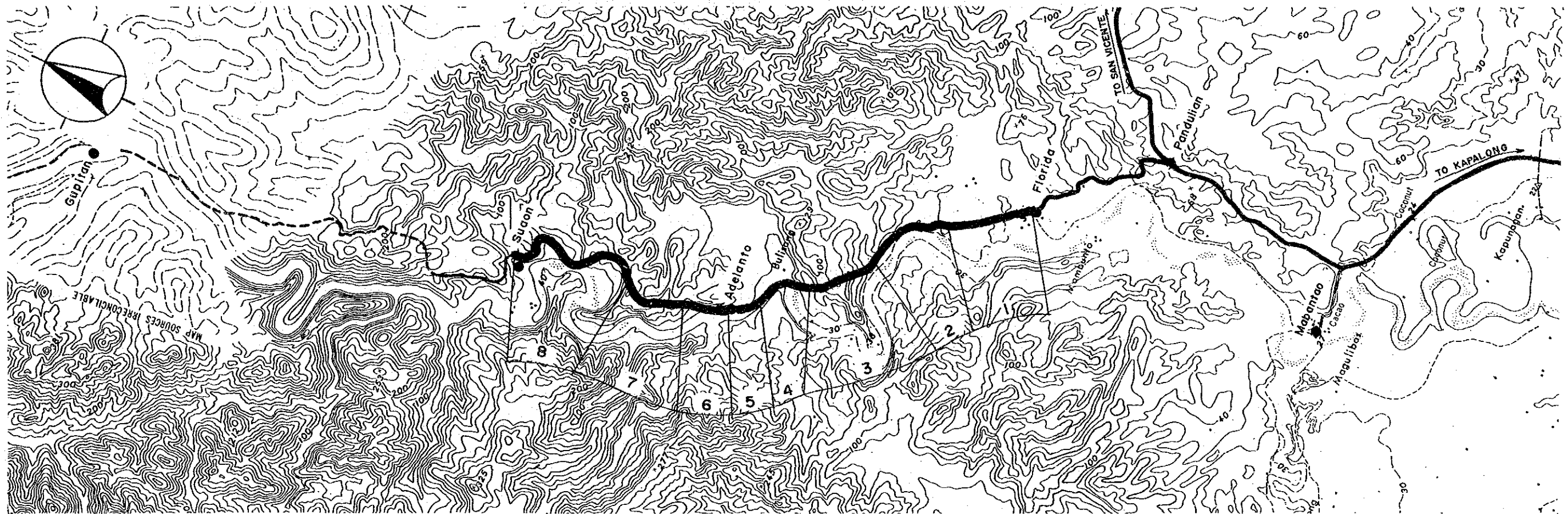
**THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT
IN THE REPUBLIC OF THE PHILIPPINES**

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale
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Drawing No.
57

Road No: B05-30 Road Name: FLORIDA-SUWAON ROAD
Location : KAPALONG, DAVAO DEL NORTE



Road Classification	Minor Road (Barangay Road)							
Total Length	7.1 km							
Sub-section No.	1	2	3	4	5	6	7	8
Length (km)	1.0	1.1	.9	.6	.4	.5	.9	1.7
Terrain	Flat	Rolling	Mt'nous	Mt'nous	Rolling	Mt'nous	Rolling	Mt'nous
Existing Road Surface	4.0-GRV (Bad)	3.2-GRV (Bad)	2.4-GRV (Bad)	3.2-GRV (Bad)	2.8-GRV (Bad)	2.4-GRV (Bad)	2.8-GRV (Bad)	2.4-GRV (Bad)
Proposed Improvement	Rehabil. Rehabil. Rehabil. Rehabil. Rehabil. Rehabil. Rehabil. Rehabil.							
Improvement Type	Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel							
Surface Type	Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel							
Carriageway Width(m)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Shoulder Width (m)	1.0	.5	.5	.5	.5	.5	.5	.5
Ref. Typical Section	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6
Special Treatment	-							
Steep Section Length	-	200	270	180	-	100	-	-

**THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT
IN THE REPUBLIC OF THE PHILIPPINES**

PRESENT CONDITION AND PROPOSED IMPROVEMENT

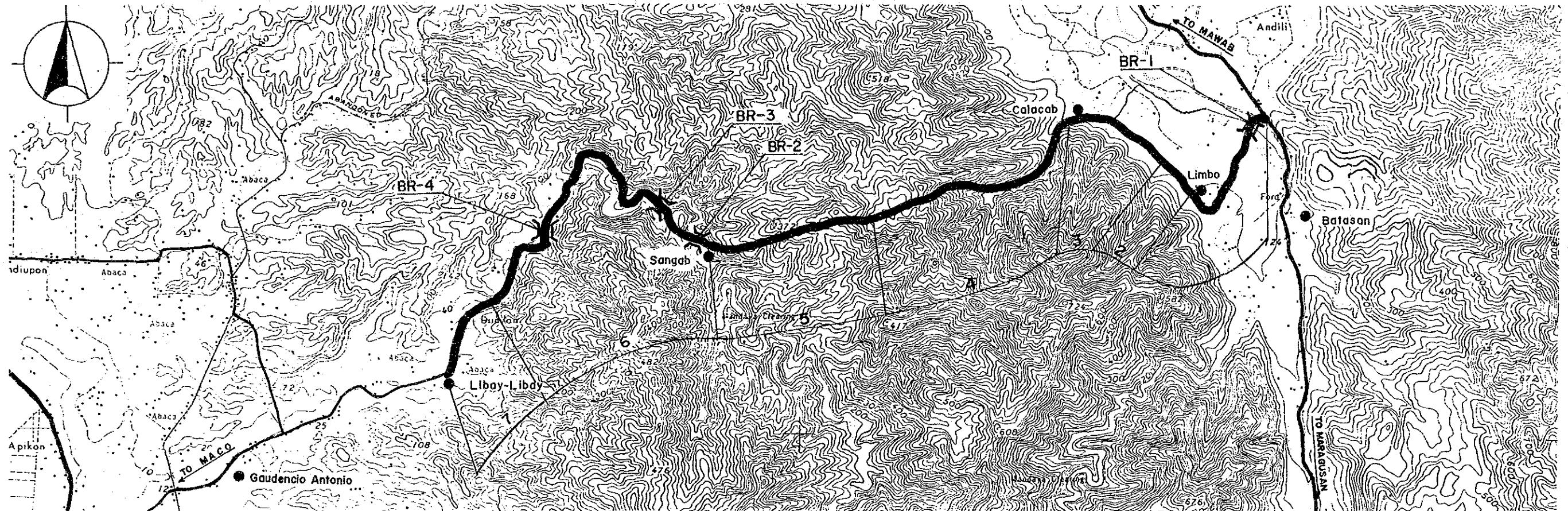
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Drawing No.

58

Road No: B08-23 Road Name: SANGAB-PANIBASAN ROAD
Location: MAWAB, DAVAO DEL NORTE



Road Classification	Minor Road (Barangay Road)						
Total Length	14.2 km						
Sub-section No.	1	2	3	4	5	6	7
Length (km)	1.7	.6	1.3	3.0	2.0	4.6	1.0
Terrain	Rolling	Flat	Flat	Mt'nous	Mt'nous	Mt'nous	Rolling
Existing Road Surface	2.8-GRV (Bad)	2.4-GRV (Bad)	2.0-GRV (Bad)	2.0-EAR (Impass)	2.4-GRV (V.Bad)	2.4-GRV (V.Bad)	3.2-GRV (Bad)
Proposed Improvement	Rehabil.	Rehabil.	Rehabil.	Impr.-1	Rehabil.	Rehabil.	Rehabil.
Improvement Type	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Surface Type							
Carriageway Width(m)	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Shoulder Width (m)	.5	1.0	1.0	.5	.5	.5	.5
Ref. Typical Section	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 2-8	TYPE 1-6	TYPE 1-6	TYPE 1-6
Bridge No.	BR-1	BR-2	BR-3	BR-4			
Existing Type	Concrete	Bailey	Bailey	Timber			
Length (m)	75	15	15	10			
Proposed Type	-	-	-	1Lane-Br			
Length (m)	-	-	-	10			
No. of Spans	-	-	-	1			

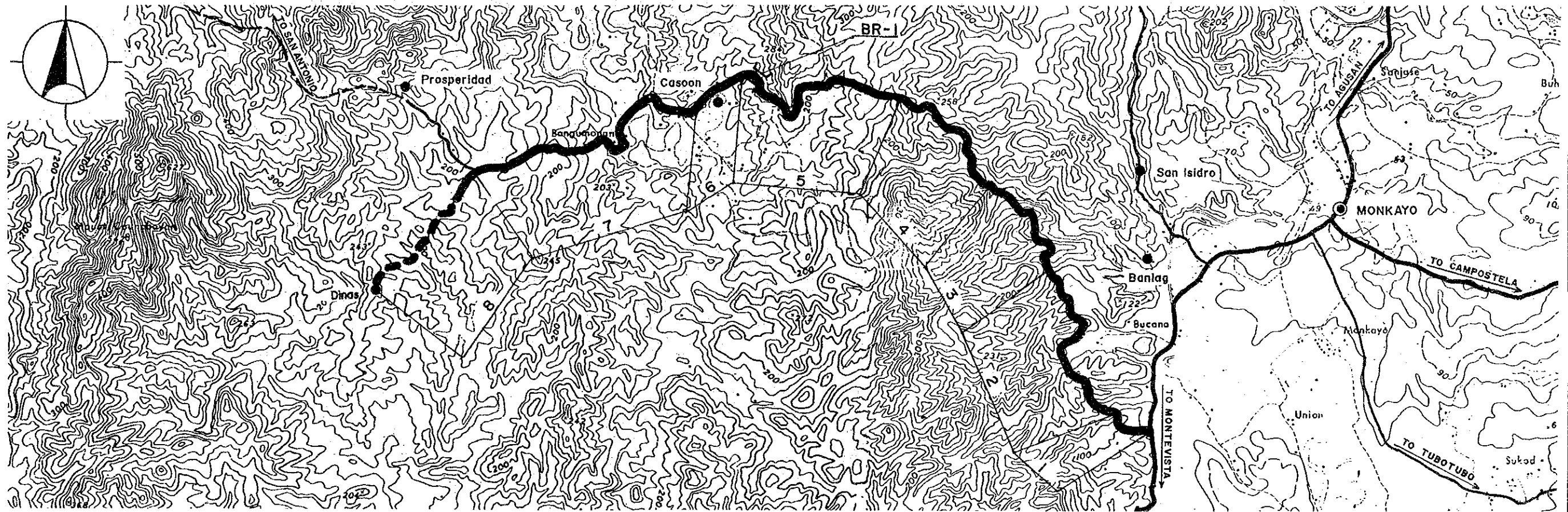
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PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale
1:50,000

Drawing No.
59

Road No: B10-12 Road Name: BANLAG-PROSPERIDAD ROAD
Location: MONKAYO, DAVAO DEL NORTE



Road Classification	Minor Road (Barangay Road)							
Total Length	14.2 km							
Sub-section No.	1	2	3	4	5	6	7	8
Length (km)	.8	2.5	1.8	1.4	2.0	.6	4.0	1.4
Terrain	Mt'nous	Mt'nous	Mt'nous	Mt'nous	Mt'nous	Rolling	Mt'nous	Mt'nous
Existing Road Surface	3.3-GRV (Bad)	3.3-EAR (Bad)	2.8-EAR (V.Bad)	3.2-EAR (V.Bad)	4.0-EAR (Bad)	4.0-EAR (V.Bad)	3.6-EAR (V.Bad)	Non Ex-isting
Proposed Improvement	Rehabil.	Impr.-1	Impr.-1	Impr.-1	Impr.-1	Impr.-1	Impr.-1	New Con.
Improvement Type	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Surface Type	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Carriageway Width(m)	.5	.5	.5	.5	.5	.5	.5	.5
Shoulder Width (m)	TYPE 1-6	TYPE 2-8	TYPE 2-8	TYPE 2-8	TYPE 2-8	TYPE 2-8	TYPE 2-8	TYPE 5-4
Ref. Typical Section	100	200	100	200	300	-	-	-
Special Treatment	Steep Section Length							
Bridge No.	BR-1							
Existing Type	Timber							
Length (m)	17							
Proposed Type	1Lane-Br							
Length (m)	18							
No. of Spans	1							

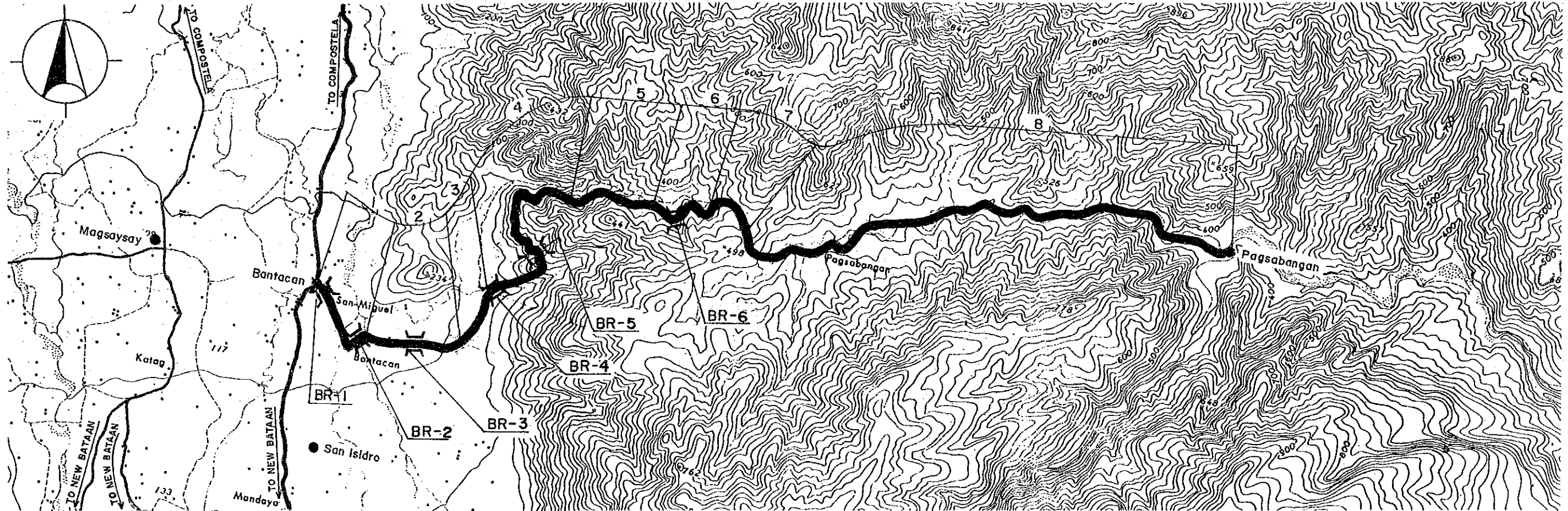
THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT
IN THE REPUBLIC OF THE PHILIPPINES

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale
1:50,000

Drawing No.
60

Road No: B13-11 Road Name: BANTAKAN-PAGSABANGAN ROAD
Location: NEW BATAAN, DAVAO DEL NORTE



Road Classification	Minor Road (Barangay Road)							
Total Length	16.0 km							
Sub-section No.	1	2	3	4	5	6	7	8
Length (km)	.9	1.2	.6	2.6	.8	.7	.9	7.3
Terrain	Flat	Flat	Flat	Mt'nous	Mt'nous	Mt'nous	Mt'nous	Mt'nous
Existing Road Surface	3.7-GRV (Bad)	4.0-GRV (Bad)	2.8-GRV (Bad)	3.2-GRV (V.Bad)	4.0-GRV (V.Bad)	4.0-GRV (V.Bad)	3.2-GRV (V.Bad)	2.4-EAR (Impass)
Proposed Improvement	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Impr.-1
Improvement Type	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Surface Type	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Carriageway Width(m)	1.0	1.0	1.0	.5	.5	.5	.5	.5
Shoulder Width (m)	TYPE 1-6 TYPE 1-6 TYPE 1-6 TYPE 1-6 TYPE 1-6 TYPE 1-6 TYPE 1-6 TYPE 2-8							
Ref. Typical Section								
Special Treatment								
Flood Section Length	-	-	600	-	-	-	-	-
Height	-	-	1.0	-	-	-	-	-
Steep Section Length	-	-	-	700	240	100	-	500
Slope Protection								
(Cut Slope)	-	-	-	150	-	-	-	-
(Embank't Slop)	-	-	-	50	-	50	-	-
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6		
Existing Type	Timber	Ford-Cr.	Ford-Cr.	Ford-Cr.	Timber	Ford-Cr.		
Length (m)	6	-	-	-	8	-		
Proposed Type	1Lane-Br	1Lane-Sp	1Lane-Sp	1Lane-Sp	1Lane-Br	1cell-BC		
Length (m)	7	20	10	15	10	5		
No. of Spans	1	-	-	-	1	1		

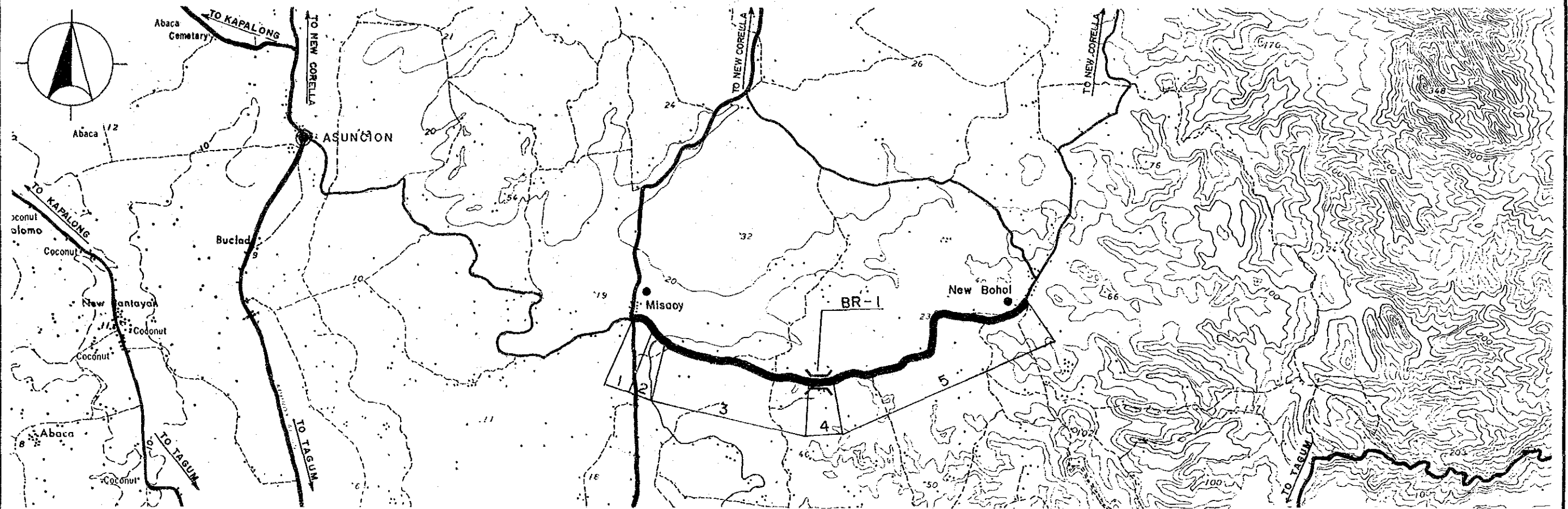
**THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT
IN THE REPUBLIC OF THE PHILIPPINES**

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale
1:50,000

Drawing No.
61

Road No: B14-19 Road Name: NEW BOHOL-MESAQY ROAD
Location: ASUNCION, DAVAO DEL NORTE



Road Classification	Minor Road (Barangay Road)				
Total Length	5.8 km				
Sub-section No.	1	2	3	4	5
Length (km)	.2	.4	1.9	.3	3.0
Terrain	Flat	Flat	Flat	Mt'nous	Mt'nous
Existing Road Surface	3.2-GRV (Fair)	2.4-GRV (Fair)	2.4-GRV (Bad)	.8-EAR (Impass)	3.2-GRV (Bad)
Proposed Improvement	Widening	Widening	Rehabil.	Impr.-1	Rehabil.
Improvement Type	Gravel	Gravel	Gravel	Gravel	Gravel
Surface Type	4.0	4.0	4.0	4.0	4.0
Carriageway Width(m)	1.0	1.0	1.0	.5	.5
Shoulder Width (m)	TYPE 4-4 TYPE 4-4 TYPE 1-6 TYPE 2-8 TYPE 1-6				
Ref. Typical Section	BR-1				
Bridge No.	Ford-Cr.				
Existing Type	-				
Length (m)	1 Lane-Sp				
Proposed Type	15				
Length (m)	-				
No. of Spans	-				

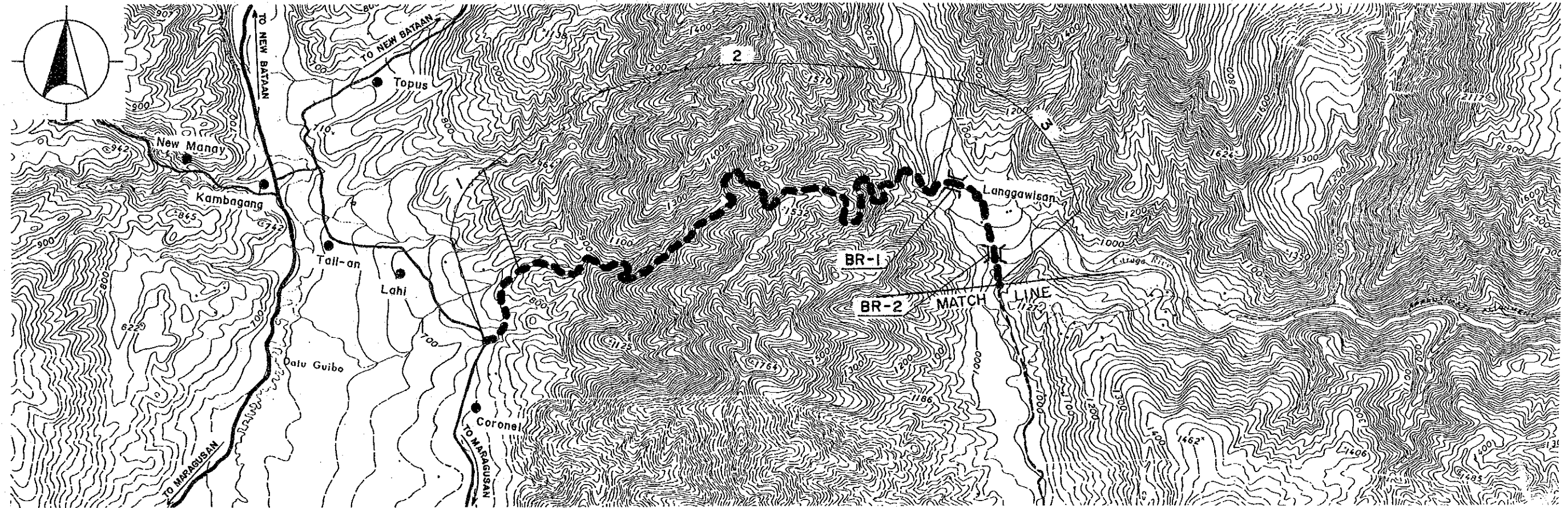
**THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT
IN THE REPUBLIC OF THE PHILIPPINES**

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale
1: 50,000

Drawing No.
62

Road No: B19-1 Road Name: MARAGUSAN-LANGAWISAN-BAHI ROAD
Location : MARAGUSAN, DAVAO DEL NORTE



Road Classification	Minor Road (Barangay Road)		
Total Length	24.2 km		
Sub-section No.	1	2	3
Length (km)	.8	8.6	1.8
Terrain	Rolling	Mt'nous	Flat
Existing Road Surface	Non Ex-isting	Non Ex-isting	Non Ex-isting
Proposed Improvement	New Con.	New Con.	New Con.
Improvement Type	Gravel	Gravel	Gravel
Surface Type	Gravel	Gravel	Gravel
Carriageway Width(m)	4.0	4.0	4.0
Shoulder Width (m)	.5	.5	1.0
Ref. Typical Section	TYPE 5-4	TYPE 5-4	TYPE 5-4
Bridge No.	BR-1	BR-2	
Existing Type	Ford-Cr.	Ford-Cr.	
Length (m)	-	-	
Proposed Type	1Lane-Sp	1Lane-Sp	
Length (m)	30	15	
No. of Spans	-	-	

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT
IN THE REPUBLIC OF THE PHILIPPINES

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale
1:50,000

Drawing No.
63

Road No: B19-1 Road Name: MARAGUSAN-LANGAWISAN-BAHI ROAD
Location: MARAGUSAN, DAVAO DEL NORTE



Road Classification						
Total Length						
Sub-section No.	4	5	6	7	8	9
Length (km)	1.5	3.2	.6	2.5	3.2	2.0
Terrain	Rolling	Flat	Rolling	Mt'nous	Flat	Rolling
Existing Road Surface	Non Ex-isting	Non Ex-isting	Non Ex-isting	Non Ex-isting	Non Ex-isting	Non Ex-isting
Proposed Improvement						
Improvement Type	New Con.	New Con.	New Con.	New Con.	New Con.	New Con.
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Carriageway Width(m)	4.0	4.0	4.0	4.0	4.0	4.0
Shoulder Width (m)	.5	1.0	.5	.5	1.0	.5
Ref. Typical Section	TYPE 5-4	TYPE 5-4	TYPE 5-4	TYPE 5-4	TYPE 5-4	TYPE 5-4
Bridge No.	BR-3	BR-4				
Existing Type	Ford-Cr.	Ford-Cr.				
Length (m)	-	-				
Proposed Type	1Lane-Sp	1Lane-Sp				
Length (m)	10	10				
No. of Spans	-	-				

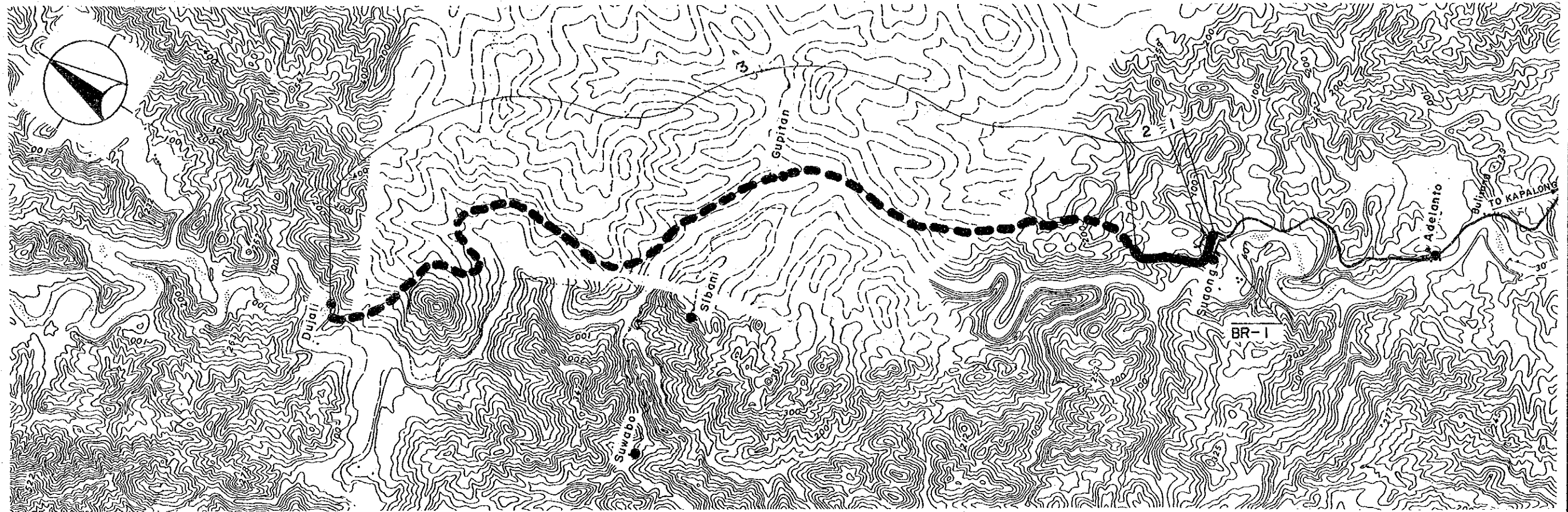
**THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT
IN THE REPUBLIC OF THE PHILIPPINES**

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale
1:50,000

Drawing No.
64

Road No: B20-4 Road Name: SUWAON-GUPITAN-DUSALI ROAD
Location : KAPALONG, DAVAO DEL NORTE



Road Classification	Minor Road (Barangay Road)		
Total Length	9.5 km		
Sub-section No.	1	2	3
Length (km)	.1	1.2	8.2
Terrain	Rolling	Rolling	Rolling
Existing Road Surface	2.4-GRV (Bad)	.8-GRV (V.Bad)	.8-GRV (Impass)
Proposed Improvement	Rehabil.	Rehabil.	Rehabil.
Improvement Type	Gravel	Gravel	Gravel
Surface Type	4.0	4.0	4.0
Carriageway Width(m)	.5	.5	.5
Shoulder Width (m)	TYPE 1-6	TYPE 1-6	TYPE 1-6
Ref. Typical Section	-	100	-
Special Treatment	-		
Steep Section Length	-		
Bridge No.	BR-1		
Existing Type	Ford-Cr.		
Length (m)	-		
Proposed Type	1Lane-Sp		
Length (m)	20		
No. of Spans	-		

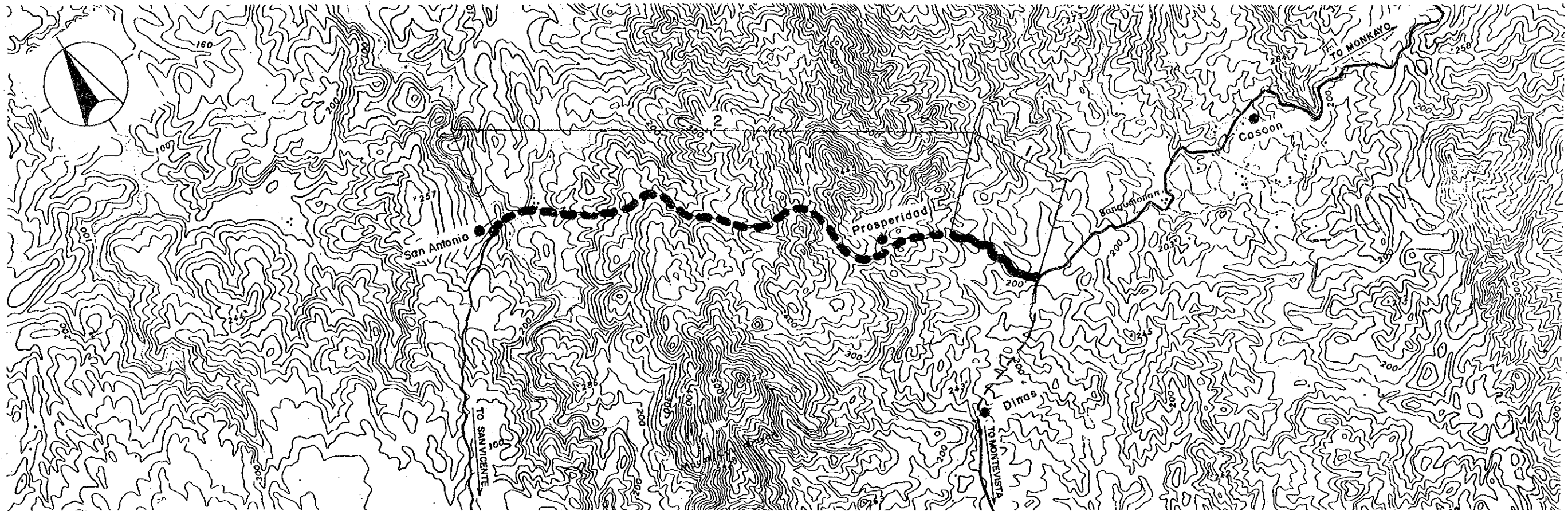
**THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT
IN THE REPUBLIC OF THE PHILIPPINES**

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale
1:50,000

Drawing No.
65

Road No: B20-10 Road Name: JCT. PROSPERIDAD-SAN ANTON. ROAD
Location : MONKAYO & SAN VICENTE, DAVAO DEL NORTE



Road Classification	Minor Road (Barangay Road)	
Total Length	7.4 km	
Sub-section No.	1	2
Length (km)	1.2	6.2
Terrain	Mt'nous	Mt'nous
Existing Road Surface	3.2-EAR (V.Bad)	Non Ex- isting
Proposed Improvement	Impr.-1 New Con.	
Improvement Type	Gravel	Gravel
Surface Type	Gravel	Gravel
Carriageway Width(m)	4.0	4.0
Shoulder Width (m)	.5	.5
Ref. Typical Section	TYPE 2-8	TYPE 5-4

100