

NAME OF ROAD : KENNON ROAD
TYPE OF FAILURE : CUT SLOPE FAILURE
LOCATION : KM 241.5

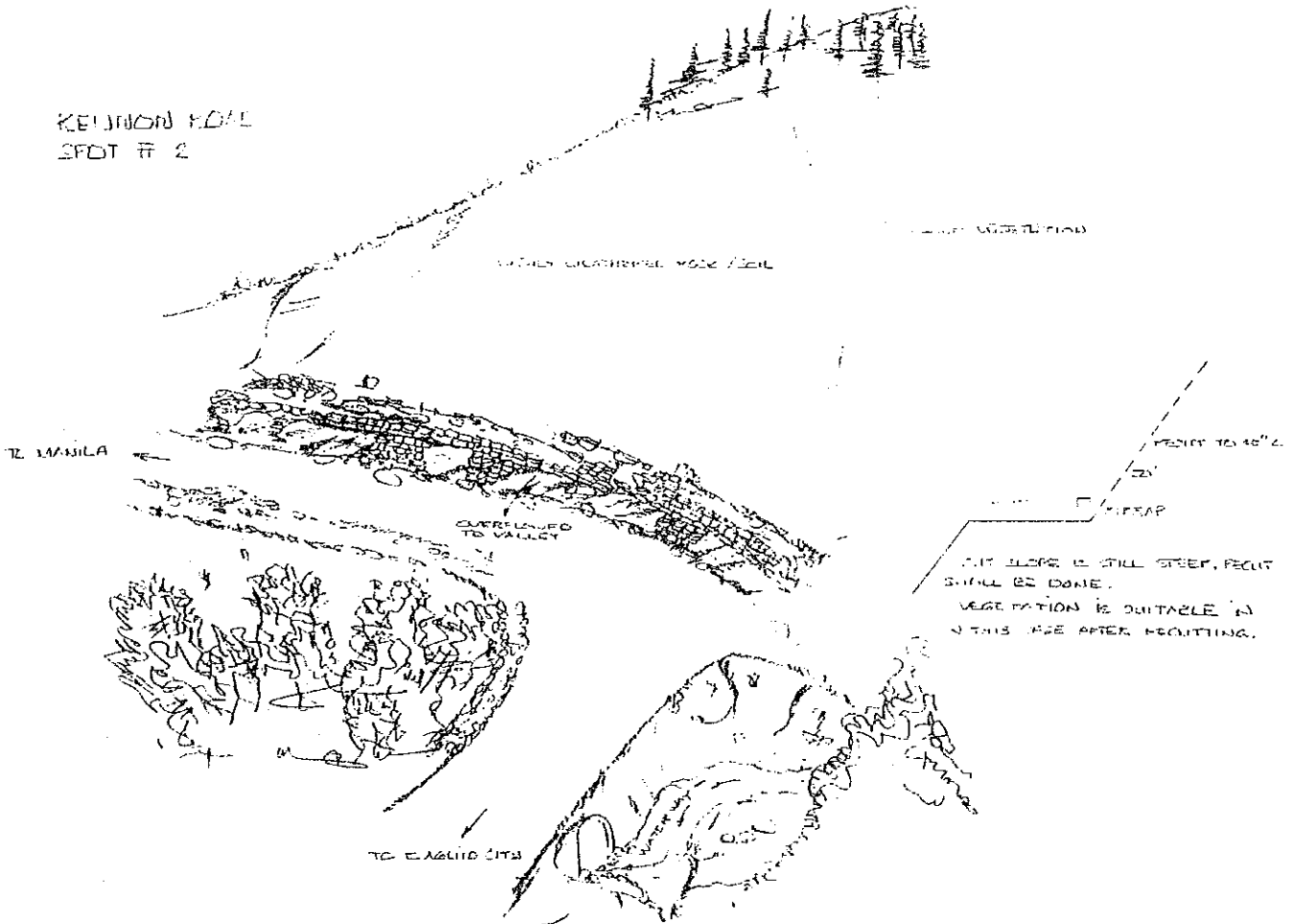
Form-1 : CUT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET	
Road NO.	0221	Name of Road	KENNON ROAD	
Spot NO.	02	Location of Spot	24.00	
Classification of Road		<input checked="" type="checkbox"/> National Road	<input type="checkbox"/> Provincial Road	
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> 2-Lane (3) -Lane	Total Width: 7.10	
Surface Type & Pavement Width		(1) PCC <input checked="" type="checkbox"/> AC (3) Gravel (4) Earth	Pave. Width: 6.10	
Terrain		(1) Flat (2) Rolling	<input checked="" type="checkbox"/> Mountainous	
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()	
	2	Kind of Failure	(1) Gully (2) Erosion (3) Land Slide <input checked="" type="checkbox"/> Rock/Debris Fall	
	3	Size of Failure	(1) Width: 300.0 m (2) Height: 8-20.0m (3) Number: 3	
	4	Date Occured	AUGUST / / 1992	
	5	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence
			Duration	<input checked="" type="checkbox"/> 1 day < (2) 1~7 days (3) 7 days >
6	Countermeasure	<input checked="" type="checkbox"/> Structure(RIPRAP) <input checked="" type="checkbox"/> Removal of Slide Materials		
Existing Slope Condition	7	Height	(1) 10m < <input checked="" type="checkbox"/> 10~30m (3) 30~50m (4) 50m >	
	8	Gradient	(1) 45° < <input checked="" type="checkbox"/> 45°~60° (3) 60° > (4) Overhang	
	9	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()	
	10	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Structure()	
Geological Condition	Rock	11	Hardness <input checked="" type="checkbox"/> Hard rock <input checked="" type="checkbox"/> Soft Rock (3) ()	
		12	Withering Condition (1) Fresh (2) Slightly Withered <input checked="" type="checkbox"/> Highly Withered <input checked="" type="checkbox"/> Nearly Soil	
		13	Direction of Strata (1) Inclined to Mountain <input checked="" type="checkbox"/> Inclined to Slope (3) Not Clear	
	Soil	14	Condition of Crack (1) Fine Crack <input checked="" type="checkbox"/> Clear (3) Open (4) Clay into Crack	
		15	Thickness <input checked="" type="checkbox"/> 1m < (2) 1~5m (3) 5~10m (4) 10~20m (5) 20m >	
		16	Compactness (1) Tight (2) Slightly Loose (3) Loose	
Weather Condition	17	Degree of Saturation <input checked="" type="checkbox"/> Dry <input checked="" type="checkbox"/> Wet (3) Seepage (4) Spring		
	18	Surface Water Concentration (1) None <input checked="" type="checkbox"/> Low (3) High		
	19	Drainage Facilities (1) Existing() <input checked="" type="checkbox"/> Nothing		
Engineering Judgement	20	Impact to Traffic <input checked="" type="checkbox"/> Low (2) Medium (3) High		
	21	Cause of Damage (1) Concentration of Surface Water (2) Seepage/Spring <input checked="" type="checkbox"/> Steeper than Normal Slope (4) ()		
	22	Countermeasure RIPRAP, ROCKNET, RECUTTING		
	23	Detour Road <input checked="" type="checkbox"/> None (2) Available		
Date of Inspection		02 / SEPT / 1992	Inspector NAGAMI / JAKE	



NAME OF ROAD : KENNON ROAD
 TYPE OF FAILURE : CUT SLOPE FAILURE
 LOCATION : KM 241.0

KENNON ROAD
 SPOT # 2



Form-1 : CUT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET		
Road NO.	0221		Name of Road	KENNON ROAD	
Spot NO.	03		Location of Spot	240.10	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> 2-Lane (3) -Lane	Total Width: 7.10		
Surface Type & Pavement Width		(1) PCC <input checked="" type="checkbox"/> AC (3) Gravel (4) Earth	Pave. Width: 6.10		
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous			
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()		
	2	Kind of Failure	(1) Gully (2) Erosion (3) Land Slide <input checked="" type="checkbox"/> Rock/Debris Fall		
	3	Size of Failure	(1) Width: 10.0 m (2) Height: 8.0 m (3) Number:		
	4	Date Occured	AUGUST / / 1992		
	5	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence	
			Duration	<input checked="" type="checkbox"/> 1 day < (2) 1~7 days (3) 7 days >	
6	Countermeasure		(1) Structure() <input checked="" type="checkbox"/> Removal of Slide Materials		
Existing Slope Condition	7	Height	<input checked="" type="checkbox"/> 10m < (2) 10~30m (3) 30~50m (4) 50m >		
	8	Gradient	(1) 45° < (2) 45°~60° (3) 60° > (4) Overhang		
	9	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()		
	10	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Structure()		
Geological Condition	Rock	11	Hardness <input checked="" type="checkbox"/> Hard rock (2) Soft Rock (3) ()		
		12	Withering Condition (1) Fresh (2) Slightly Withered <input checked="" type="checkbox"/> Highly Withered (4) Nearly Soil		
		13	Direction of Strata (1) Inclined to Mountain <input checked="" type="checkbox"/> Inclined to Slope (2) Not Clear		
	Soil	14	Condition of Crack (1) Fine Crack <input checked="" type="checkbox"/> Clear (3) Open (4) Clay into Crack		
		15	Thickness (1) 1m < (2) 1~5m (3) 5~10m (4) 10~20m (5) 20m >		
		16	Compactness (1) Tight (2) Slightly Loose (3) Loose		
Weather Condition	17	Degree of Saturation (1) Dry <input checked="" type="checkbox"/> Wet (3) Seepage (4) Spring			
	18	Surface Water Concentration (1) None <input checked="" type="checkbox"/> Low (3) High			
	19	Drainage Facilities (1) Existing() <input checked="" type="checkbox"/> Nothing			
Engineering Judgement	20	Impact to Traffic (1) Low (2) Medium <input checked="" type="checkbox"/> High			
	21	Cause of Damage (1) Concentration of Surface Water (2) Seepage/Spring <input checked="" type="checkbox"/> Steeper than Normal Slope (4) ()			
	22	Countermeasure RECUTTING			
	23	Detour Road <input checked="" type="checkbox"/> None (2) Available			
TOP SOIL ≤ 0.1m under					
Date of Inspection		02 / SEPT / 1992		Inspector NAGAMI / JAKE	

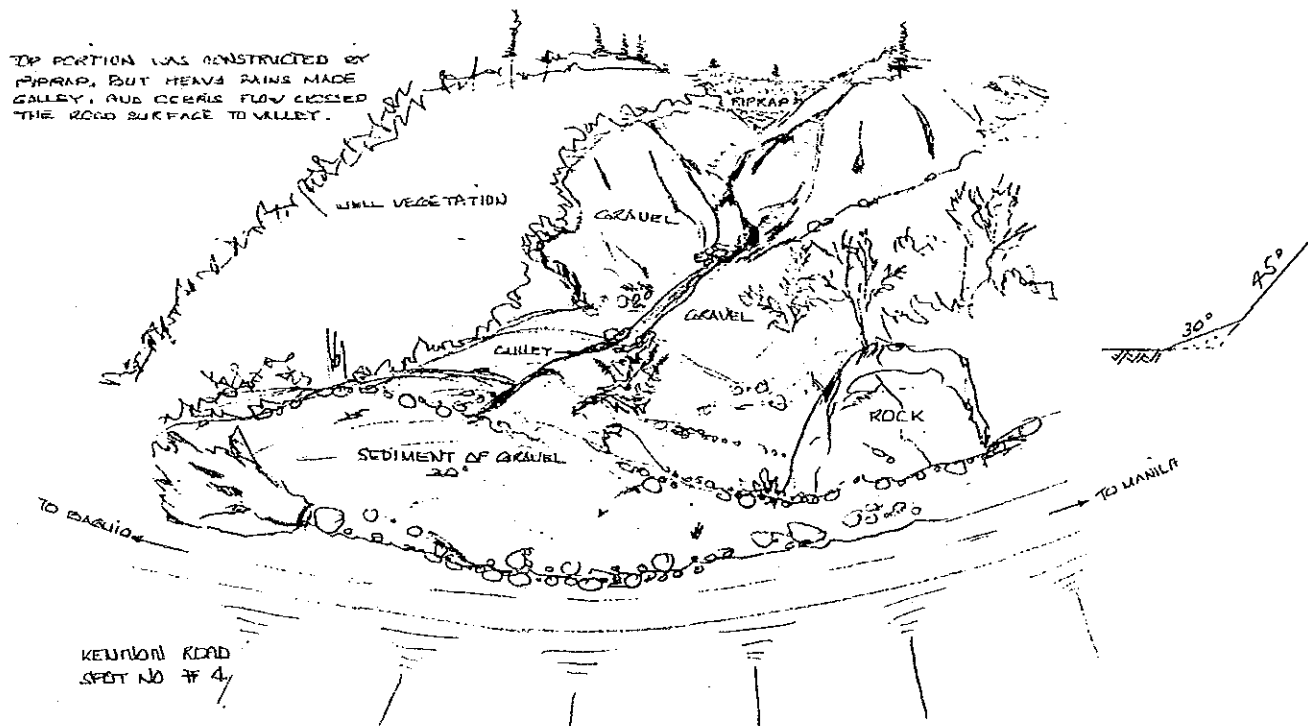


NAME OF ROAD : KENNON ROAD
TYPE OF FAILURE : CUT SLOPE FAILURE
LOCATION : KM 240.1

Form-3 : DEBRIS FLOW INSPECTION SHEET

		Name of Province	BENGUET	
Road NO.	0221		Name of Road	KENNON ROAD
Spot NO.	04		Location of Spot	239.80
Classification of Road		<input checked="" type="checkbox"/> (1) National Road <input type="checkbox"/> (2) Provincial Road		
NO. of Lanes & Roadway Width		(1) 1-lane <input checked="" type="checkbox"/> (2) 2-lane (3) -Lane	Total Width: 8.00	
Surface Type & Pavement Width		(1) PCC <input checked="" type="checkbox"/> (2) AC (3) Gravel (4) Earth	Pave. Width: 6.10	
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> (3) Mountainous		
Evidence of Flow	1	Size of Damage	(1) Width (30.0) (2) Length (40.0)	
	2	Date Occured	/ / 19	
	3	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> (1) Full Width (2) Half Width (3) Shoulder (4) No Influence
Duration			(1) 1 day < <input checked="" type="checkbox"/> (2) 1~7 days (3) 7 days >	
Existing Flow Condition	4	Average Gradient	(1) 20' < (2) 20' ~ 30' <input checked="" type="checkbox"/> (3) 30' >	
	5	Area of Basin	<input checked="" type="checkbox"/> (1) 50,000m ² < (2) 50,000~200,000m ² (3) 200,000m ² >	
	6	Deposit on ^{VALLEY} Riverbed	(1) None (2) Rare <input checked="" type="checkbox"/> (3) Abundant (4) Overflow	
	7	Deposit Material	(1) Clay (2) Sand <input checked="" type="checkbox"/> (3) Gravel <input checked="" type="checkbox"/> (4) Cobble (5) Boulder	
	8	Vegetation	Covering Rate of Bare Land or Thin Forest: (1) 50% > <input checked="" type="checkbox"/> (2) 50% <	
Engineering Judgement	9	Impact to Traffic	(1) Low (2) Medium <input checked="" type="checkbox"/> (3) High	
	10	Cause of Damage	WATER CONCENTRATION / STEEP SLOPE	
	11	Countermeasure		
	12	Detour Road	<input checked="" type="checkbox"/> (1) None (2) Available	

Typical Photo



Date of Inspection	02 / SEPT / 1992	Inspector	NAGAMI / JAKE
--------------------	------------------	-----------	---------------

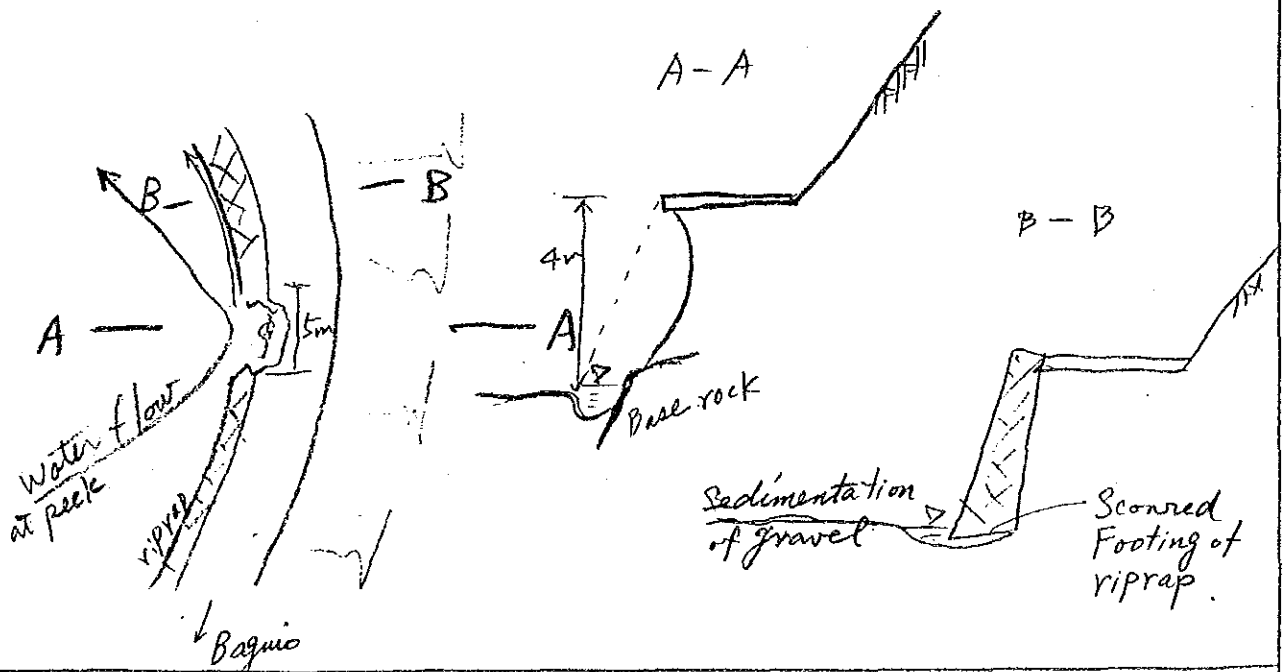


NAME OF ROAD : KENNON ROAD
TYPE OF FAILURE : DEBRIS FLOW
LOCATION : KM 239.8

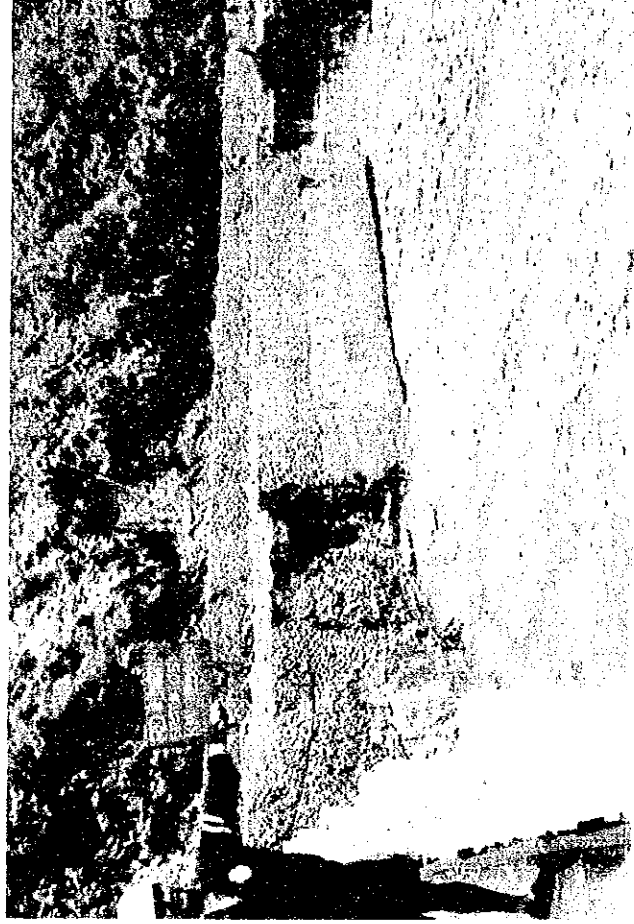
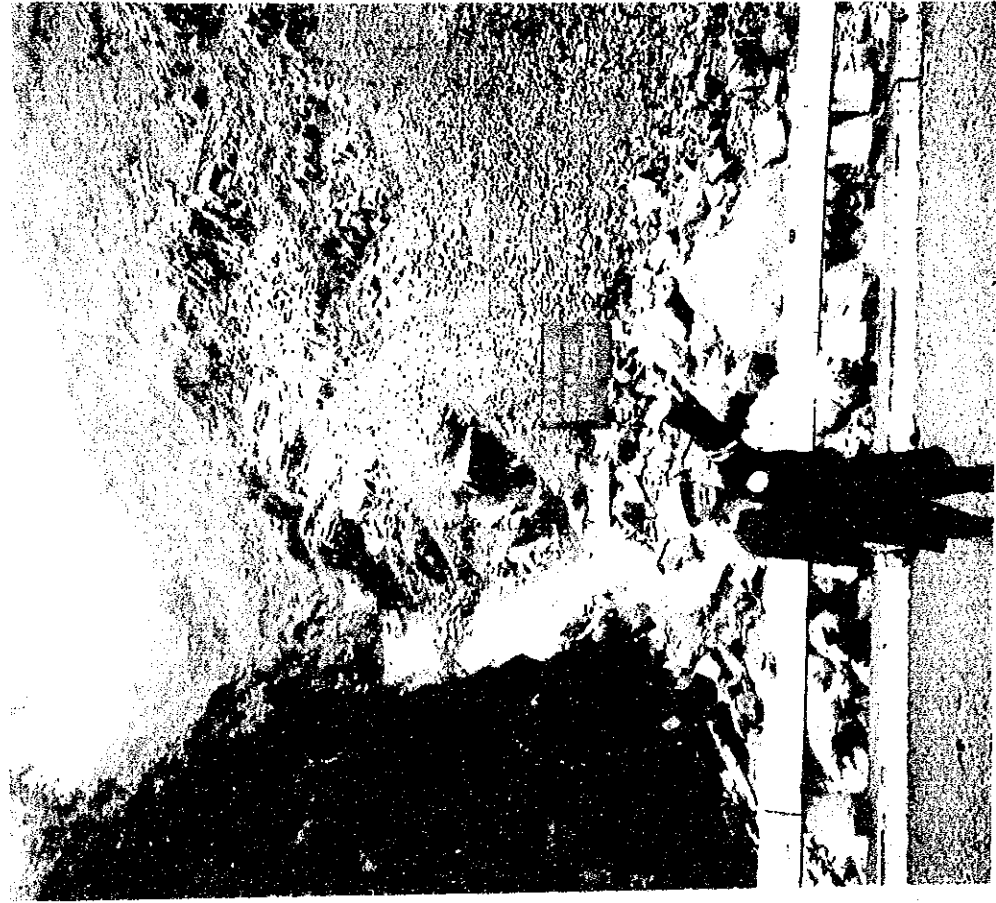


Form-4 : ROAD DAMAGE INSPECTION SHEET

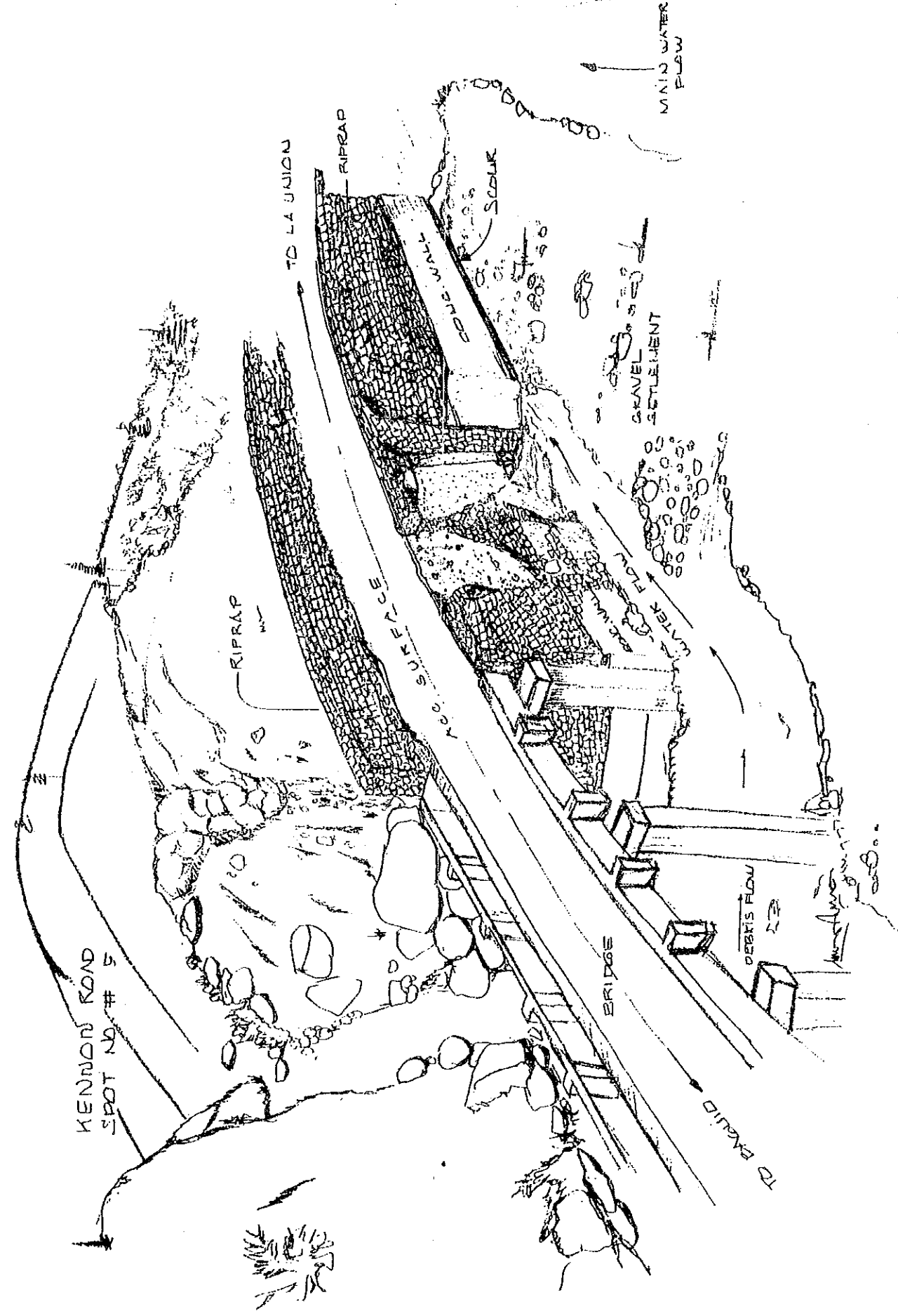
		Name of Province	BENGUET	
Road NO.	0221	Name of Road	KENNON ROAD	
Spot NO.	05	Location of Spot	232.50	
Classification of Road		(1) National Road	(2) Provincial Road	
NO. of Lanes & Roadway Width		(1) 1-Lane (2) 2-Lane (3) -Lane	Total Width: 7.10	
Surface Type & Pavement Width		(1) PCC (2) AC (3) Gravel (4) Earth	Pave. Width: 6.10	
General Information	1	Terrain	(1) Flat (2) Rolling (3) Mountainous	
	2	Cross-section	(1) Cut (2) Fill (height: m) (3) Flat	
	3	Roadbed Material	(1) Grained (2) Gravel (3) Common (4) ()	
Evidence of Damage	4	Type of Damage	(1) Flooding Roadbed (2) Flooding/Muddy Surface (3) Scouring of Shoulder (4) Scouring of Roadbed	
	5	Length of Damage	5.0 m.	
	6	Date Occured	AUGUST / / 1992	
	7	Traffic Interruption	Magnitude	(1) Full Width (2) Half Width (3) Shoulder (4) No Influence
			Duration	(1) 1 day < (2) 1~7 days (3) 7 days >
8	Countermeasure			
Existing Drainage Condition	9	Drainage Facilities	(1) Existing (2) Nothing	
	10	Drainage Condition	POOR	
Engineering Judgement	11	Impact to Traffic	(1) Low (2) Medium (3) High	
	12	Cause of Damage	(1) Concentration of Surface Water (2) Snaking of River (3) Deposit of Riverbed (4) Flood (5) ()	
	13	Countermeasure	RETAINING WALL	
	14	Detour Road	(1) None (2) Available	



Date of Inspection	02 / SEPT / 1992	Inspector	NAGAMI / JAKE
--------------------	------------------	-----------	---------------



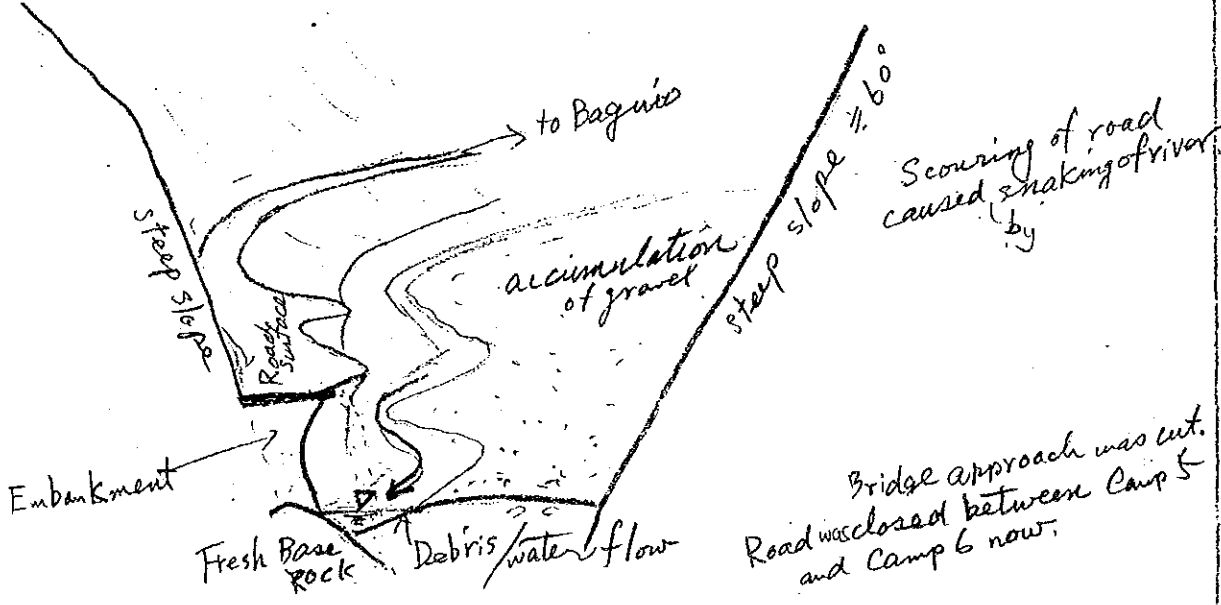
NAME OF ROAD : KENNON ROAD
 TYPE OF FAILURE : SCOURING
 LOCATION : KM 238.5



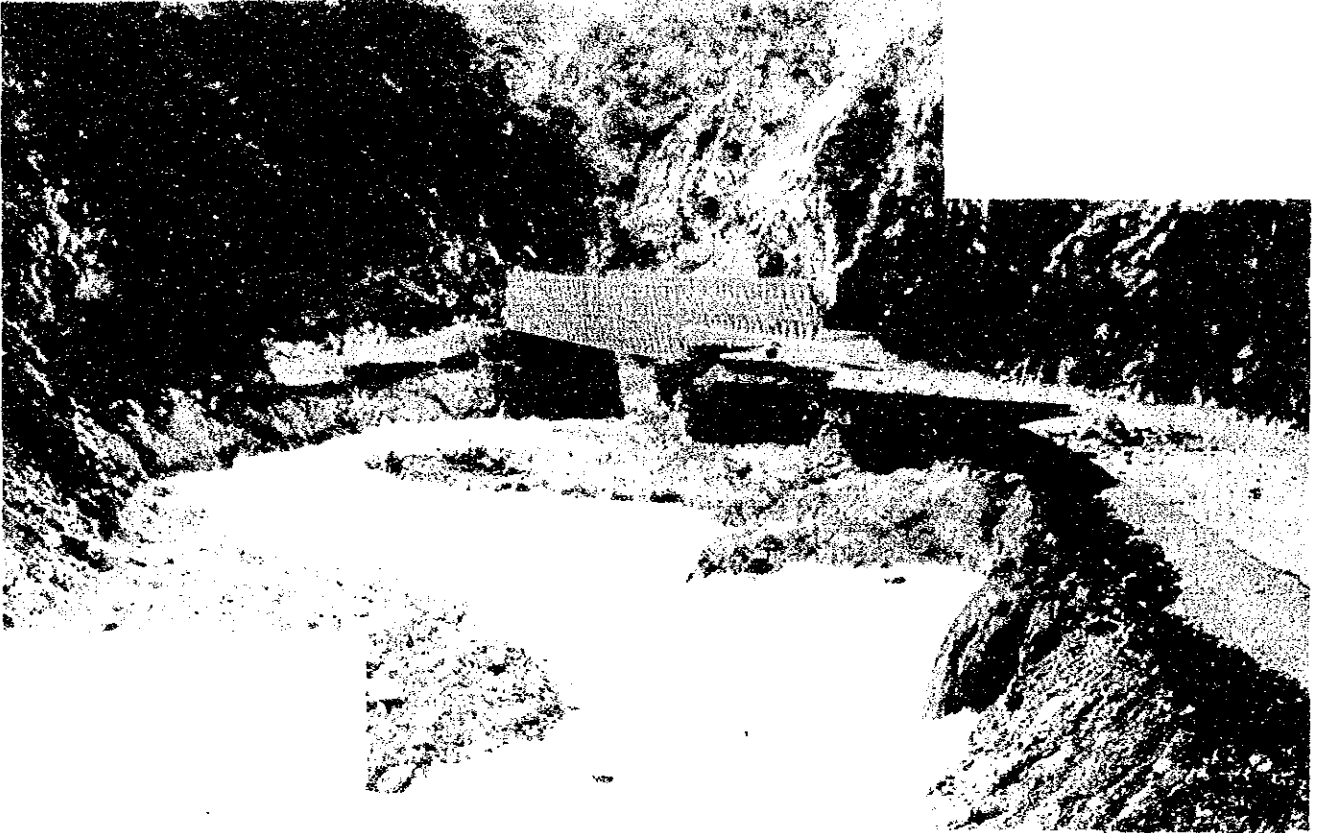
Form-4 : ROAD DAMAGE INSPECTION SHEET

		Name of Province	PENGUET		
Road NO.	0221		Name of Road	KENNON ROAD	
Spot NO.	06		Location of Spot	235.50	
Classification of Road		<input checked="" type="checkbox"/> National Road <input type="checkbox"/> Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> (2) 2-Lane <input type="checkbox"/> (3) -Lane <input type="checkbox"/>	Total Width:	7.10	
Surface Type & Pavement Width		<input checked="" type="checkbox"/> PCC <input checked="" type="checkbox"/> AC (3) Gravel (4) Earth Pav. Width: 6.10			
General Information	1	Terrain	(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous		
	2	Cross-section	<input checked="" type="checkbox"/> Cut (2) Fill (height: m) (3) Flat		
	3	Roadbed Material	(1) Grained <input checked="" type="checkbox"/> Gravel (3) Common (4) ()		
Evidence of Damage	4	Type of Damage	(1) Flooding Roadbed (2) Deposit on Surface <input checked="" type="checkbox"/> Scouring (4) Ground Subsidence (5) ()		
	5	Length of Damage	500.00 m		
	6	Date Occured	AUGUST / / 1992		
	7	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence	
			Duration	(1) 1 day < (2) 1~7 days <input checked="" type="checkbox"/> 7 days >	
8	Countermeasure	GROUTED RIPRAP (no more)			
Existing Drainage Condition	9	Drainage Facilities	(1) Existing <input checked="" type="checkbox"/> Nothing		
	10	Drainage Condition	NO INFLUENCE		
Engineering Judgement	11	Impact to Traffic	(1) Low (2) Medium <input checked="" type="checkbox"/> High		
	12	Cause of Damage	(1) Concentration of Surface Water <input checked="" type="checkbox"/> Snaking of River <input checked="" type="checkbox"/> Deposit of Riverbed (4) Flood (5) ()		
Judgement	13	Countermeasure	CONCRETE WALL		
	14	Detour Road	<input checked="" type="checkbox"/> None (2) Available		

Sketch



Date of Inspection	02 / SEPT / 1992	Inspector	NAGAMI/JAKE
--------------------	------------------	-----------	-------------



NAME OF ROAD : KENNON ROAD
TYPE OF FAILURE : SCOURING
LOCATION : KM 235.5

Form-4 : ROAD DAMAGE INSPECTION SHEET

		Name of Province	BENGUET	
Road NO.	0221	Name of Road	KENNON ROAD	
Spot NO.	07	Location of Spot	218.10	
Classification of Road		<input checked="" type="checkbox"/> National Road	<input type="checkbox"/> Provincial Road	
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> (2) 2-Lane <input type="checkbox"/> (3) -Lane <input type="checkbox"/>	Total Width: 7.10	
Surface Type & Pavement Width		<input checked="" type="checkbox"/> PCC <input type="checkbox"/> (2) AC <input type="checkbox"/> (3) Gravel <input type="checkbox"/> (4) Earth	Pave. Width: 6.10	
General Information	1	Terrain	(1) Flat <input type="checkbox"/> (2) Rolling <input type="checkbox"/> <input checked="" type="checkbox"/> Mountainous	
	2	Cross-section	<input checked="" type="checkbox"/> Cut <input type="checkbox"/> (2) Fill (height: m) <input type="checkbox"/> (3) Flat	
	3	Roadbed Material	(1) Grained <input type="checkbox"/> (2) Gravel <input type="checkbox"/> (3) Common <input type="checkbox"/> (4) (SCULDER)	
Evidence of Damage	4	Type of Damage	<input checked="" type="checkbox"/> Flooding Roadbed <input type="checkbox"/> (2) Deposit on Surface <input type="checkbox"/> (3) Scouring (4) Ground Subsidence <input type="checkbox"/> (5) (RIVER OVERFLOW)	
	5	Length of Damage	30.0 m HEIGHT = 1.0m	
	6	Date Occured	SEPT / 04 / 1992	
	7	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width <input type="checkbox"/> (2) Half Width <input type="checkbox"/> (3) Shoulder <input type="checkbox"/> (4) No Influence
			Duration	(1) 1 day < <input checked="" type="checkbox"/> 1~7 days <input type="checkbox"/> (3) 7 days >
8	Countermeasure	LOW RETAINING WALL		
Existing Drainage Condition	9	Drainage Facilities	(1) Existing <input type="checkbox"/> <input checked="" type="checkbox"/> (2) Nothing	
	10	Drainage Condition		
Engineering	11	Impact to Traffic	(1) Low <input type="checkbox"/> (2) Medium <input type="checkbox"/> <input checked="" type="checkbox"/> (3) High	
	12	Cause of Damage	(1) Concentration of Surface Water <input type="checkbox"/> (2) Snaking of River <input type="checkbox"/> (3) Deposit of Riverbed <input checked="" type="checkbox"/> (4) Flood <input type="checkbox"/> (5) (OVERFLOW)	
Judgement	13	Countermeasure	UPGRADE 2.0m HIGHER THAN THE ROAD & RETAINING WALL	
	14	Detour Road	<input checked="" type="checkbox"/> (1) None <input type="checkbox"/> (2) Available	

Sketch TO BE UPGRADED PORTION = 100.0 m



Date of Inspection 05 / SEPT / 1992 Inspector NAGAMI / JAKE

Form-2 : EMBANKMENT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGLUET		
Road NO.	0222		Name of Road	MARCOS HIGHWAY	
Spot NO.	01		Location of Spot	274.40	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> 2-Lane (3) -Lane	Total Width: 8.70		
Surface Type & Pavement Width		<input checked="" type="checkbox"/> PCC (2) AC (3) Gravel (4) Earth	Pave. Width: 6.70		
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous			
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Embankment (2) Natural (3) Bridge Approach		
	2	Kind of Failure	(1) Gulley <input checked="" type="checkbox"/> Erosion (3) Slide (4) ()		
	3	Location	<input checked="" type="checkbox"/> Inside of Curve (2) Adjacent to River/Sea (3) Bridge App.		
	4	Size of Failure	(1) Width: 20.0 m (2) Height: 3 ~ 5 m (3) Number: 1		
	5	Date Occured	SEPT / 05 / 1992		
	6	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence	
			Duration	(1) 1 day < (2) 1~7 days (3) 7 days >	
7	Countermeasure	(1) Only Fill <input checked="" type="checkbox"/> Riprap (3) Structure()			
Existing Slope Condition	8	Height	(1) 5m < (2) 5~10m <input checked="" type="checkbox"/> 10m >		
	9	Gradient	(1) 30' < (2) 30' ~ 45' <input checked="" type="checkbox"/> 45' >		
	10	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()		
	11	Protection	(1) None (2) Vegetation <input checked="" type="checkbox"/> Riprap (4) Structure()		
	12	Compactness	(1) Tight (2) Slightly Loose <input checked="" type="checkbox"/> Loose		
	13	Surface Water Condition	(1) None (2) Low <input checked="" type="checkbox"/> High		
	14	Drainage Facilities	(1) Existing() <input checked="" type="checkbox"/> Nothing		
Engineering Judgement	15	Impact to Traffic	(1) Low (2) Medium <input checked="" type="checkbox"/> High		
	16	Cause of Damage	<input checked="" type="checkbox"/> Concentration of Surface Water (2) Leakage from Drainage (3) Steeper than Normal Slope (4) ()		
	17	Countermeasure	IMPROVE DRAINAGE SYSTEM, GROUTED RIPRAP		
	18	Detour Road	<input checked="" type="checkbox"/> None (2) Available		
<p>- TYPICAL DAMAGE OF WATER CONCENTRATION. - VERTICAL DRAINAGE OF EMBANKMENT SHOULD BE DONE.</p>					
Date of Inspection		05 / SEPT / 1992		Inspector NAGAMI / JAKE	



NAME OF ROAD : MARCOS HIGHWAY
TYPE OF FAILURE : ROAD DAMAGE BY EROSION
LOCATION : KM 274.4



Form-1 : CUT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET	
Road NO.	0223 A	Name of Road	NAGUILIAN ROAD	
Spot NO.	01	Location of Spot	287.50	
Classification of Road		<input checked="" type="checkbox"/> National Road	(2) Provincial Road	
NO. of Lanes & Roadway Width		(1) 1-lane <input checked="" type="checkbox"/> 2-lane (3) -lane	Total Width: 7.10	
Surface Type & Pavement Width		(1) PCC <input checked="" type="checkbox"/> AC (3) Gravel (4) Earth	Pave. Width: 6.10	
Terrain		(1) Flat (2) Rolling	<input checked="" type="checkbox"/> Mountainous	
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()	
	2	Kind of Failure	(1) Gully (2) Erosion <input checked="" type="checkbox"/> Land Slide (4) Rock/Debris Fall	
	3	Size of Failure	(1) Width: 30.0 m (2) Height: 10.0 m (3) Number: 1	
	4	Date Occured	AUGUST / / 1992	
	5	Traffic Interruption	Magnitude	(1) Full Width <input checked="" type="checkbox"/> Half Width (3) Shoulder (4) No Influence
			Duration	<input checked="" type="checkbox"/> 1 day < (2) 1~7 days (3) 7 days >
6	Countermeasure		(1) Structure() <input checked="" type="checkbox"/> Removal of Slide Materials	
Existing Slope Condition	7	Height	(1) 10m < <input checked="" type="checkbox"/> 10~30m (3) 30~50m (4) 50m >	
	8	Gradient	(1) 45° < <input checked="" type="checkbox"/> 45° ~ 60° (3) 60° > (4) Overhang	
	9	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()	
	10	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Structure()	
Geological Condition	Rock	11	Hardness	(1) Hard rock <input checked="" type="checkbox"/> Soft Rock (3) ()
		12	Withering Condition	(1) Fresh (2) Slightly Withered <input checked="" type="checkbox"/> Highly Withered (4) Nearly Soil
		13	Direction of Strata	(1) Inclined to Mountain <input checked="" type="checkbox"/> Inclined to Slope (3) Not Clear
	Soil	14	Condition of Crack	(1) Fine Crack <input checked="" type="checkbox"/> Clear (3) Open (4) Clay into Crack
		15	Thickness	<input checked="" type="checkbox"/> 1m < (2) 1~5m (3) 5~10m (4) 10~20m (5) 20m >
		16	Compactness	(1) Tight (2) Slightly Loose <input checked="" type="checkbox"/> Loose
Weather Condition	17	Degree of Saturation	(1) Dry <input checked="" type="checkbox"/> Wet (3) Seepage (4) Spring	
	18	Surface Water Concentration	<input checked="" type="checkbox"/> None (2) Low (3) High	
	19	Drainage Facilities	(1) Existing() <input checked="" type="checkbox"/> Nothing	
Engineering Judgement	20	Impact to Traffic	(1) Low <input checked="" type="checkbox"/> Medium (3) High	
	21	Cause of Damage	(1) Concentration of Surface Water (2) Seepage/Spring <input checked="" type="checkbox"/> Steeper than Normal Slope <input checked="" type="checkbox"/> (WITHERING)	
	22	Countermeasure	RETAINING WALL AND SHOTCRETE	
	23	Detour Road	<input checked="" type="checkbox"/> None (2) Available	
NOTE: No. 13 - not so fine but inclined to slope				
Date of Inspection		01 / SEPT / 1992	Inspector WAGAMI / JAKE	



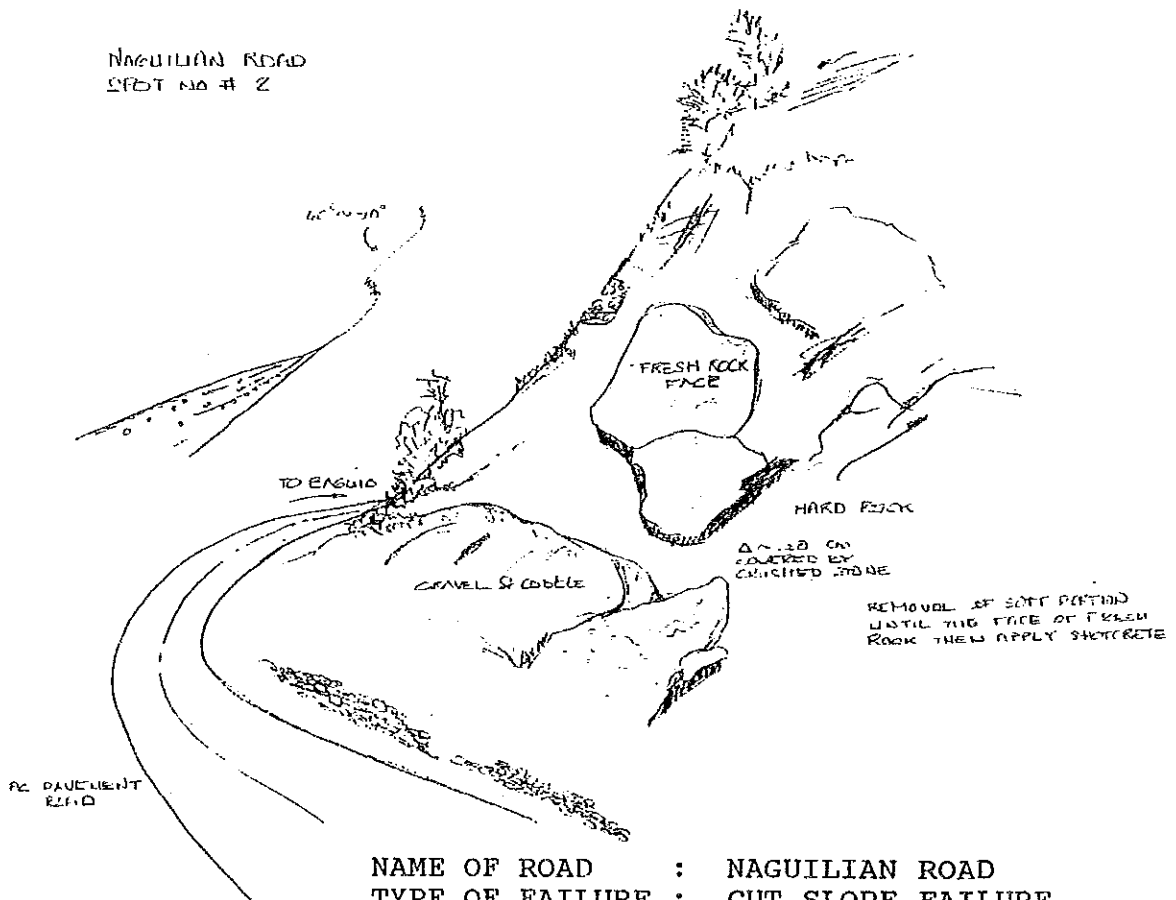
NAME OF ROAD : NAGUILIAN ROAD
TYPE OF FAILURE : CUT SLOPE FAILURE
LOCATION : KM 287.5

Form-1 : CUT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET		
Road NO.	0223 A		Name of Road	NAGUILIAN ROAD	
Spot NO.	02		Location of Spot	287.70	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> 2-Lane (3) -Lane	Total Width:	10.00	
Surface Type & Pavement Width		(1) PCC <input checked="" type="checkbox"/> AC (3) Gravel (4) Earth	Pave. Width:	6.10	
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous			
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()		
	2	Kind of Failure	(1) Gully (2) Erosion (3) Land Slide <input checked="" type="checkbox"/> Rock/Bohris Fall		
	3	Size of Failure	(1) Width: 50.0 m (2) Height: 15.0 m (3) Number:		
	4	Date Occured	/ ? / 19__		
	5	Traffic Interruption	Magnitude	(1) Full Width (2) Half Width (3) Shoulder <input checked="" type="checkbox"/> No Influence	
			Duration	(1) 1 day < (2) 1~7 days (3) 7 days >	
6	Countermeasure	(1) Structure(NOTHING) (2) Removal of Slide Materials			
Existing Slope Condition	7	Height	(1) 10m < <input checked="" type="checkbox"/> 10~30m (3) 30~50m (4) 50m >		
	8	Gradient	(1) 45° < <input checked="" type="checkbox"/> 45° ~60° (3) 60° > (4) Overhang		
	9	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()		
	10	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Structure()		
Geological Condition	Rock	11	Hardness <input checked="" type="checkbox"/> Hard rock (2) Soft Rock (3) ()		
		12	Withering Condition <input checked="" type="checkbox"/> Fresh <input checked="" type="checkbox"/> Slightly Withered (3) Highly Withered (4) Nearly Soil		
		13	Direction of Strata (1) Inclined to Mountain <input checked="" type="checkbox"/> Inclined to Slope (3) Not Clear		
	Soil	14	Condition of Crack (1) Fine Crack <input checked="" type="checkbox"/> Clear (3) Open (4) Clay into Crack		
		15	Thickness (1) 1m < (2) 1~5m (3) 5~10m (4) 10~20m (5) 20m >		
		16	Compactness (1) Tight (2) Slightly Loose (3) Loose		
Weather Condition	17	Degree of Saturation <input checked="" type="checkbox"/> Dry (2) Wet (3) Seepage (4) Spring			
	18	Surface Water Concentration <input checked="" type="checkbox"/> None (2) Low (3) High			
	19	Drainage Facilities (1) Existing() <input checked="" type="checkbox"/> Nothing			
Engineering Judgement	20	Impact to Traffic <input checked="" type="checkbox"/> Low (2) Medium (3) High			
	21	Cause of Damage (1) Concentration of Surface Water (2) Seepage/Spring (3) Steeper than Normal Slope <input checked="" type="checkbox"/> (4) (QUARRYING)			
	22	Countermeasure RECUTTING (TOP PORTION)			
	23	Detour Road <input checked="" type="checkbox"/> None (2) Available			
SEE SKETCH: WIDE SHOULDER FOR MOUNTAIN SIDE BORROW PIT OF GRAVEL / CRASHED STONE					
Date of Inspection		01 / SEPT / 1992		Inspector NAGAMI / JAKE	



NAGUILIAN ROAD
 SFBT NO # 2



NAME OF ROAD : NAGUILIAN ROAD
 TYPE OF FAILURE : CUT SLOPE FAILURE
 LOCATION : KM 287.7

Form-1 : CUT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET		
Road NO.	0223 A		Name of Road	NAGUILIAN ROAD	
Spot NO.	03		Location of Spot	292-90	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> 2-Lane (3) -Lane	Total Width: 8.10		
Surface Type & Pavement Width		(1) PCC <input checked="" type="checkbox"/> AC (3) Gravel (4) Earth	Pave. Width: 6.10		
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous			
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()		
	2	Kind of Failure	(1) Gully (2) Erosion <input checked="" type="checkbox"/> Land Slide (4) Rock/Debris Fall		
	3	Size of Failure	(1) Width: 25.0 m (2) Height: 8.0 m (3) Number:		
	4	Date Occured	/ ? / 19		
	5	Traffic Interruption	Magnitude	(1) Full Width (2) Half Width (3) Shoulder <input checked="" type="checkbox"/> No Influence	
			Duration	(1) 1 day < (2) 1~7 days (3) 7 days >	
6	Countermeasure	<input checked="" type="checkbox"/> Structure (RE-CUTTING) (2) Removal of Slide Materials			
Existing Slope Condition	7	Height	<input checked="" type="checkbox"/> 10m < (2) 10~30m (3) 30~50m (4) 50m >		
	8	Gradient	<input checked="" type="checkbox"/> 45° < (2) 45° ~ 60° (3) 60° > (4) Overhang		
	9	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()		
	10	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Structure()		
Geological Condition	Rock	11	Hardness	(1) Hard rock <input checked="" type="checkbox"/> Soft Rock (3) ()	
		12	Withering Condition	(1) Fresh (2) Slightly Withered <input checked="" type="checkbox"/> Highly Withered <input checked="" type="checkbox"/> Nearly Soil	
		13	Direction of Strata	(1) Inclined to Mountain <input checked="" type="checkbox"/> Inclined to Slope (3) Not Clear	
	Soil	14	Condition of Crack	(1) Fine Crack (2) Clear (3) Open <input checked="" type="checkbox"/> Clay into Crack	
		15	Thickness	<input checked="" type="checkbox"/> 1m < (2) 1~5m (3) 5~10m (4) 10~20m (5) 20m >	
		16	Compactness	(1) Tight (2) Slightly Loose <input checked="" type="checkbox"/> Loose	
Weather Condition	17	Degree of Saturation	(1) Dry <input checked="" type="checkbox"/> Wet (3) Seepage (4) Spring		
	18	Surface Water Concentration	(1) None <input checked="" type="checkbox"/> Low (3) High		
	19	Drainage Facilities	(1) Existing() <input checked="" type="checkbox"/> Nothing		
Engineering Judgement	20	Impact to Traffic	<input checked="" type="checkbox"/> Low (2) Medium (3) High		
	21	Cause of Damage	(1) Concentration of Surface Water (2) Seepage/Spring (3) Steeper than Normal Slope <input checked="" type="checkbox"/> (STRATA ANGLED > 70)		
	22	Countermeasure	RE-CUTTING / VEGETATION		
	23	Detour Road	<input checked="" type="checkbox"/> None (2) Available		
Date of Inspection		01 / SEPT / 1992		Inspector	NAGAMI / JAKE



NAME OF ROAD : NAGUILIAN ROAD
TYPE OF FAILURE : CUT SLOPE FAILURE
LOCATION : KM 292.9

Form-1 : CUT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET		
Road NO.	0223 A		Name of Road	NAGUILIAN ROAD	
Spot NO.	04		Location of Spot	294.00	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> 2-Lane (3) -Lane	Total Width: 7.10		
Surface Type & Pavement Width		(1) PCC <input checked="" type="checkbox"/> AC (3) Gravel (4) Earth	Pave. Width: 6.10		
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous			
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()		
	2	Kind of Failure	(1) Gully (2) Erosion <input checked="" type="checkbox"/> Land Slide (4) Rock/Debris Fall		
	3	Size of Failure	(1) Width: 30.0 m (2) Height: 20.0 m (3) Number:		
	4	Date Occured	AUGUST / / 1992		
	5	Traffic Inter-ruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence	
			Duration	(1) 1 day < <input checked="" type="checkbox"/> 1~7 days (3) 7 days >	
6	Countermeasure		(1) Structure() <input checked="" type="checkbox"/> Removal of Slide Materials		
Existing Slope Condition	7	Height	(1) 10m < <input checked="" type="checkbox"/> 10~30m (3) 30~50m (4) 50m >		
	8	Gradient	(1) 45' < <input checked="" type="checkbox"/> 45'~60' (3) 60' > (4) Overhang		
	9	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()		
	10	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Structure()		
Geological Condition	Rock	11	Hardness (1) Hard rock <input checked="" type="checkbox"/> Soft Rock (3) ()		
		12	Withering Condition <input checked="" type="checkbox"/> Fresh BASE ROCK (2) Slightly Withered (3) Highly Withered (4) Nearly COVERED SOIL ROCK		
		13	Direction of Strata (1) Inclined to Mountain <input checked="" type="checkbox"/> Inclined to Slope (3) Not Clear		
	Soil	14	Condition of Crack <input checked="" type="checkbox"/> Fine Crack BASE ROCK (2) Clear (3) Open <input checked="" type="checkbox"/> Clay into Crack COVERED ROCK		
		15	Thickness <input checked="" type="checkbox"/> 1m < (2) 1~5m (3) 5~10m (4) 10~20m (5) 20m >		
		16	Compactness (1) Tight (2) Slightly Loose (3) Loose		
Weather Condition	17	Degree of Saturation (1) Dry (2) Wet <input checked="" type="checkbox"/> Seepage (4) Spring			
	18	Surface Water Concentration (1) None (2) Low <input checked="" type="checkbox"/> High			
	19	Drainage Facilities (1) Existing() <input checked="" type="checkbox"/> Nothing			
Engineering Judgement	20	Impact to Traffic (1) Low (2) Medium <input checked="" type="checkbox"/> High			
	21	Cause of Damage <input checked="" type="checkbox"/> Concentration of Surface Water <input checked="" type="checkbox"/> Seepage/Spring (3) Steeper than Normal Slope (4) (SLIDING PLANE)			
	22	Countermeasure			
	23	Detour Road <input checked="" type="checkbox"/> None (2) Available			

GRADE OF CUT SLOPE AND STRATA ARE ALMOST SAME.
 THE PORTION WHICH COVERED SOFT ROCKS ARE SLIDED AND APPEARED FRESH ROCK
 AND SLOPE OF EMBANKMENT SIDE IS ALSO THE SAME AS CUT SLOPE

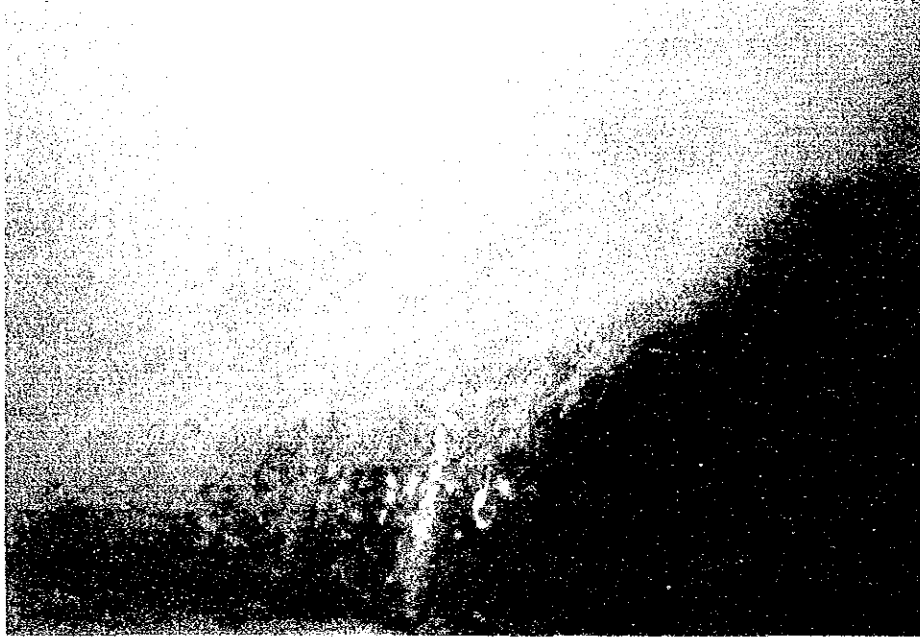
Date of Inspection | 01 / SEPT / 1992 | Inspector | HAGAMI / JAKE



NAME OF ROAD : NAGUILIAN ROAD
TYPE OF FAILURE : CUT SLOPE FAILURE
LOCATION : KM 294.0

Form-1 : CUT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET		
Road NO.	0224		Name of Road	BAGUIO - BONTOC	
Spot NO.	01		Location of Spot	264.30	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-lane <input checked="" type="checkbox"/> 2-lane (3) -lane	Total Width: 8.70		
Surface Type & Pavement Width		<input checked="" type="checkbox"/> PCC (2) AC (3) Gravel (4) Earth			
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous			
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()		
	2	Kind of Failure	(1) Gully <input checked="" type="checkbox"/> Erosion (3) Land Slide (4) Rock/Debris Fall		
	3	Size of Failure	(1) Width: 20.0 m (2) Height: 20.0 m (3) Number: 1		
	4	Date Occured	/ AUGUST / 1992		
	5	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence	
			Duration	<input checked="" type="checkbox"/> 1 day < (2) 1~7 days (3) 7 days >	
6	Countermeasure	(1) Structure() <input checked="" type="checkbox"/> Removal of Slide Materials			
Existing Slope Condition	7	Height	(1) 10m < (2) 10~30m <input checked="" type="checkbox"/> 30~50m (4) 50m >		
	8	Gradient	(1) 45° < <input checked="" type="checkbox"/> 45°~60° (3) 60° > (4) Overhang		
	9	Berm	(1) None (2) Existing Number(3) (3) Width(2~5)		
	10	Protection	(1) None (2) Vegetation (3) Structure(GROUTED RIPRAP)		
Geological Condition	Rock	11	Hardness (1) Hard rock (2) Soft Rock (3) ()		
		12	Withering Condition (1) Fresh (2) Slightly Withered (3) Highly Withered (4) Nearly Soil		
		13	Direction of Strata (1) Inclined to Mountain (2) Inclined to Slope (3) Not Clear		
		14	Condition of Crack (1) Fine Crack (2) Clear (3) Open (4) Clay into Crack		
	Soil	15	Thickness (1) 1m < (2) 1~5m <input checked="" type="checkbox"/> 5~10m (4) 10~20m (5) 20m >		
		16	Compactness (1) Tight <input checked="" type="checkbox"/> Slightly Loose (3) Loose		
Weather Condition	17	Degree of Saturation (1) Dry <input checked="" type="checkbox"/> Wet (3) Seepage (4) Spring			
	18	Surface Water Concentration (1) None (2) Low <input checked="" type="checkbox"/> High			
	19	Drainage Facilities (1) Existing() <input checked="" type="checkbox"/> Nothing			
Engineering Judgement	20	Impact to Traffic (1) Low (2) Medium <input checked="" type="checkbox"/> High			
	21	Cause of Damage <input checked="" type="checkbox"/> Concentration of Surface Water (2) Seepage/Spring (3) Steeper than Normal Slope (4) ()			
	22	Countermeasure SEE SKETCH BELOW			
	23	Detour Road <input checked="" type="checkbox"/> None (2) Available			
Date of Inspection	03 / SEPT / 1992		Inspector	NAGAMI / JAKE	

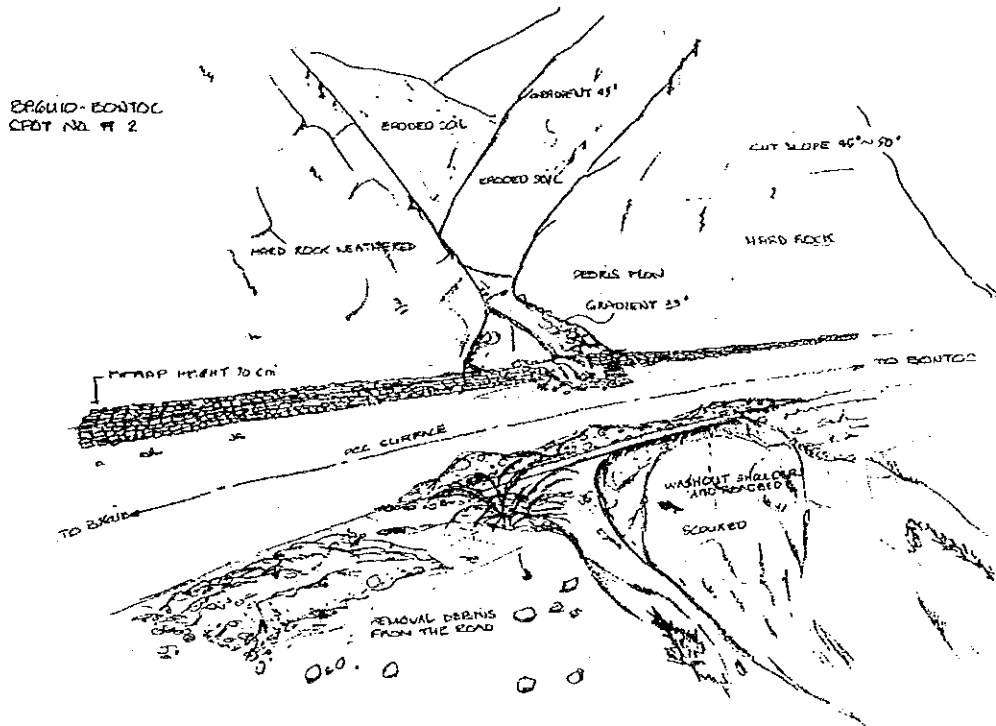


NAME OF ROAD : BAGUIO - BONTOC ROAD
TYPE OF FAILURE : CUT SLOPE FAILURE
LOCATION : KM 264.3

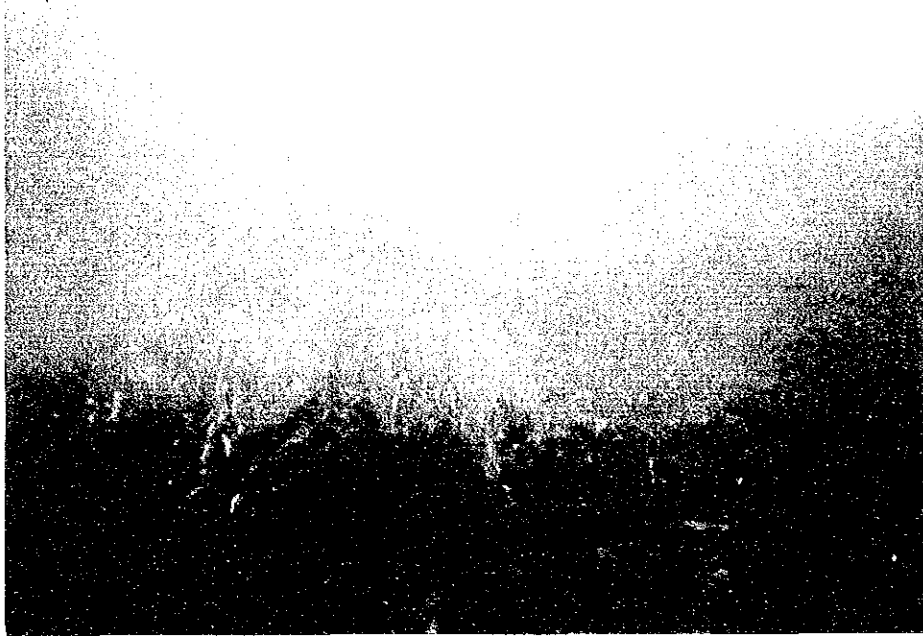
Form-3 : DEBRIS FLOW INSPECTION SHEET

		Name of Province	BENGUET	
Road NO.	0224		Name of Road	BAGUIO - BONTOC
Spot NO.	02		Location of Spot	265.30
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road		
NO. of Lanes & Roadway Width		(1) 1-lane <input checked="" type="checkbox"/> 2-lane (3) -Lane	Total Width: 8.70	
Surface Type & Pavement Width		<input checked="" type="checkbox"/> PCC (2) AC (3) Gravel (4) Earth		
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous		
Evidence of Flow	1	Size of Damage	(1) Width (10.0 m) (2) Length (40.6 m >)	
	2	Date Occured	AUGUST / / 1992	
	3	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence
Duration			<input checked="" type="checkbox"/> 1 day < (2) 1~7 days (3) 7 days >	
Existing Flow Condition	4	Average Gradient	(1) 20' < (2) 20' ~ 30' <input checked="" type="checkbox"/> 30' > < 60	
	5	Area of Basin	(1) 50,000m ² < <input checked="" type="checkbox"/> 50,000 ~ 200,000m ² (3) 200,000m ² >	
	6	Deposit on Riverbed	(1) None (2) Rare (3) Abundant (4) Overflow	
	7	Deposit Material	<input checked="" type="checkbox"/> Clay (2) Sand <input checked="" type="checkbox"/> Gravel (4) Cobble (5) Boulder	
	8	Vegetation	Covering Rate of Bare Land or Thin Forest: <input checked="" type="checkbox"/> 50% > (2) 50% <	
Engineering Judgement	9	Impact to Traffic	(1) Low (2) Medium <input checked="" type="checkbox"/> High	
	10	Cause of Damage	SURFACE WATER	
	11	Countermeasure	HIGH WALL / VERTICAL DITCH , SABO DAM TYPE	
	12	Detour Road	<input checked="" type="checkbox"/> None (2) Available	

Typical Photo



Date of Inspection	03 / SEPT / 1992	Inspector	NAGAMI / JAKE
--------------------	------------------	-----------	---------------



NAME OF ROAD : BAGUIO - BONTOC ROAD
TYPE OF FAILURE : DEBRIS FLOW
LOCATION : KM 265.3

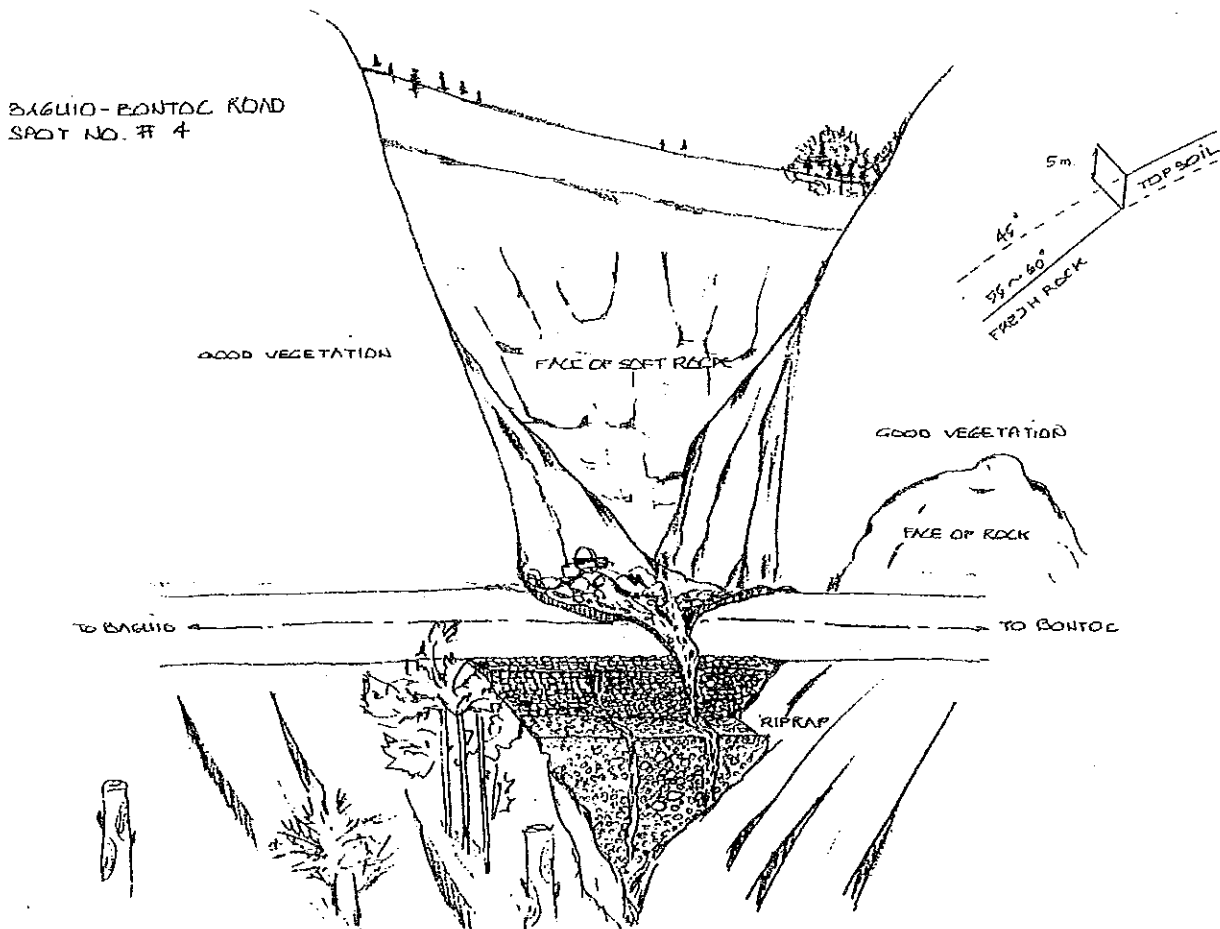


Form-1 : CUT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET		
Road NO.	0224		Name of Road	BAGUIO - BONTOC	
Spot NO.	04		Location of Spot	278.40	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> 2-Lane (3) -Lane	Total Width: 8.70		
Surface Type & Pavement Width		<input checked="" type="checkbox"/> PCC (2) AC (3) Gravel (4) Earth			
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous			
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()		
	2	Kind of Failure	(1) Gully (2) Erosion <input checked="" type="checkbox"/> Land Slide (4) Rock/Debris Fall		
	3	Size of Failure	(1) Width: 50.0 m (2) Height: 30.0 m (3) Number: 1		
	4	Date Occured	/ / 19__		
	5	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence	
			Duration	<input checked="" type="checkbox"/> 1 day < (2) 1~7 days (3) 7 days >	
6	Countermeasure	(1) Structure() <input checked="" type="checkbox"/> Removal of Slide Materials			
Existing Slope Condition	7	Height	(1) 10m < (2) 10~30m <input checked="" type="checkbox"/> 30~50m (4) 50m >		
	8	Gradient	(1) 45° < <input checked="" type="checkbox"/> 45°~60° (3) 60° > (4) Overhang		
	9	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()		
	10	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Structure()		
Geological Condition	Rock	11	Hardness <input checked="" type="checkbox"/> Hard rock (2) Soft Rock (3) ()		
		12	Withering Condition <input checked="" type="checkbox"/> Fresh (2) Slightly Withered <input checked="" type="checkbox"/> Highly Withered (4) Nearly Soil		
		13	Direction of Strata <input checked="" type="checkbox"/> Inclined to Mountain (2) Inclined to Slope (3) Not Clear		
	Soil	14	Condition of Crack <input checked="" type="checkbox"/> Fine Crack (2) Clear (3) Open (4) Clay into Crack		
		15	Thickness (1) 1m < (2) 1~5m <input checked="" type="checkbox"/> 5~10m (4) 10~20m (5) 20m >		
		16	Compactness (1) Tight (2) Slightly Loose <input checked="" type="checkbox"/> Loose		
Weather Condition	17	Degree of Saturation (1) Dry <input checked="" type="checkbox"/> Wet (3) Seepage (4) Spring			
	18	Surface Water Concentration (1) None (2) Low <input checked="" type="checkbox"/> High			
	19	Drainage Facilities (1) Existing() <input checked="" type="checkbox"/> Nothing			
Engineering Judgement	20	Impact to Traffic (1) Low (2) Medium <input checked="" type="checkbox"/> High			
	21	Cause of Damage <input checked="" type="checkbox"/> Concentration of Surface Water (2) Seepage/Spring (3) Steeper than Normal Slope (4) ()			
	22	Countermeasure REMOVAL OF TOP SOIL, RECTITING, SHOTCRETE			
	23	Detour Road <input checked="" type="checkbox"/> None (2) Available			
Date of Inspection		04 / SEPT / 1992		Inspector	HAGAMI/JAKE



NAME OF ROAD : BAGUIO - BONTOC ROAD
 TYPE OF FAILURE : CUT SLOPE FAILURE
 LOCATION : KM 278.4



Form-2 : EMBANKMENT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET		
Road NO.	0225 B		Name of Road	BAGUIO - NUEVA VIZCAYA	
Spot NO.	01		Location of Spot	257.70	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> 2-Lane (3) -Lane	Total Width: 7.0		
Surface Type & Pavement Width		(1) PCC <input checked="" type="checkbox"/> AC (3) Gravel (4) Earth	Pave. Width: 5.0		
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous			
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Embankment (2) Natural (3) Bridge Approach		
	2	Kind of Failure	<input checked="" type="checkbox"/> Gully (2) Erosion (3) Slide (4) ()		
	3	Location	<input checked="" type="checkbox"/> ^{OUTSIDE} Inside of Curve (2) Adjacent to River/Sea (3) Bridge App.		
	4	Size of Failure	(1) Width: 7.0 m (2) Height: 30.0 m (3) Number: 1		
	5	Date Occured	AUGUST / / 1992		
	6	Traffic Interruption	Magnitude	(1) Full Width (2) Half Width <input checked="" type="checkbox"/> Shoulder (4) No Influence	
			Duration	(1) 1 day < (2) 1~7 days (3) 7 days >	
7	Countermeasure	(1) Only Fill (2) Riprap (3) Structure()			
Existing Slope Condition	8	Height	(1) 5m < (2) 5~10m <input checked="" type="checkbox"/> 10m >		
	9	Gradient	(1) 30° < (2) 30°~45° <input checked="" type="checkbox"/> 45° >		
	10	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()		
	11	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Riprap (4) Structure()		
	12	Compactness	(1) Tight (2) Slightly Loose <input checked="" type="checkbox"/> Loose		
	13	Surface Water Condition	(1) None (2) Low <input checked="" type="checkbox"/> High		
Engineering Judgement	14	Drainage Facilities	(1) Existing() <input checked="" type="checkbox"/> Nothing		
	15	Impact to Traffic	<input checked="" type="checkbox"/> Low (2) Medium (3) High		
	16	Cause of Damage	<input checked="" type="checkbox"/> Concentration of Surface Water (2) Leakage from Drainage (3) Steeper than Normal Slope (4) ()		
	17	Countermeasure	IMPROVE DRAINAGE SYSTEM / RETAINING WALL		
18	Detour Road	<input checked="" type="checkbox"/> None (2) Available			
Date of Inspection	02 / SEPT / 1992		Inspector	NAGAMI / JAKE	



NAME OF ROAD : BAGUIO - NUEVA VIZCAYA ROAD
TYPE OF FAILURE : EMBANKMENT SLOPE FAILURE
LOCATION : KM 257.7

Form-1 : CUT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET		
Road NO.	0225 E		Name of Road	BAGUIO - NUEVA VIZCAYA	
Spot NO.	02		Location of Spot	257.70	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> 2-lane (3) -Lane	Total Width: 7.0		
Surface Type & Pavement Width		(1) PCC <input checked="" type="checkbox"/> AC (3) Gravel (4) Earth	Pave. Width: 5.0		
Terrain		(1) Flat (2) Rolling	<input checked="" type="checkbox"/> Mountainous		
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()		
	2	Kind of Failure	(1) Gully (2) Erosion <input checked="" type="checkbox"/> Land Slide (4) Rock/Debris Fall		
	3	Size of Failure	(1) Width: 30.0 m (2) Height: 25.0 m (3) Number:		
	4	Date Occured	AUGUST / / 1992		
	5	Traffic interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence	
			Duration	<input checked="" type="checkbox"/> 1 day < (2) 1~7 days (3) 7 days >	
6	Countermeasure	(1) Structure() <input checked="" type="checkbox"/> Removal of Slide Materials			
Existing Slope Condition	7	Height	(1) 10m < <input checked="" type="checkbox"/> 10~30m (3) 30~50m (4) 50m >		
	8	Gradient	(1) 45° < <input checked="" type="checkbox"/> 45°~60° (3) 60° > (4) Overhang		
	9	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()		
	10	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Structure()		
Geological Condition	Rock	11	Hardness (1) Hard rock (2) Soft Rock (3) ()		
		12	Withering Condition (1) Fresh (2) Slightly Withered (3) Highly Withered (4) Nearly Soil		
		13	Direction of Strata (1) Inclined to Mountain (2) Inclined to Slope (3) Not Clear		
	Soil	14	Condition of Crack (1) Fine Crack (2) Clear (3) Open (4) Clay into Crack		
		15	Thickness (1) 1m < (2) 1~5m <input checked="" type="checkbox"/> 5~10m (4) 10~20m (5) 20m >		
		16	Compactness (1) Tight <input checked="" type="checkbox"/> Slightly Loose (3) Loose		
Weather Condition	17	Degree of Saturation (1) Dry <input checked="" type="checkbox"/> Wet (3) Seepage (4) Spring			
	18	Surface Water Concentration (1) None <input checked="" type="checkbox"/> Low (3) High			
	19	Drainage Facilities (1) Existing() <input checked="" type="checkbox"/> Nothing			
Engineering Judgement	20	Impact to Traffic (1) Low (2) Medium <input checked="" type="checkbox"/> High			
	21	Cause of Damage <input checked="" type="checkbox"/> Concentration of Surface Water (2) Seepage/Spring <input checked="" type="checkbox"/> Steeper than Normal Slope (4) ()			
	22	Countermeasure VEGETATION (TOP) / CATCH WALL			
	23	Detour Road <input checked="" type="checkbox"/> None (2) Available			
Date of Inspection		02 / SEPT / 1992		Inspector	NAGAMI / JAKE

NAME OF ROAD : BAGUIO - NUEVA VIZCAYA ROAD
TYPE OF FAILURE : CUT SLOPE FAILURE
LOCATION : KM 257.7

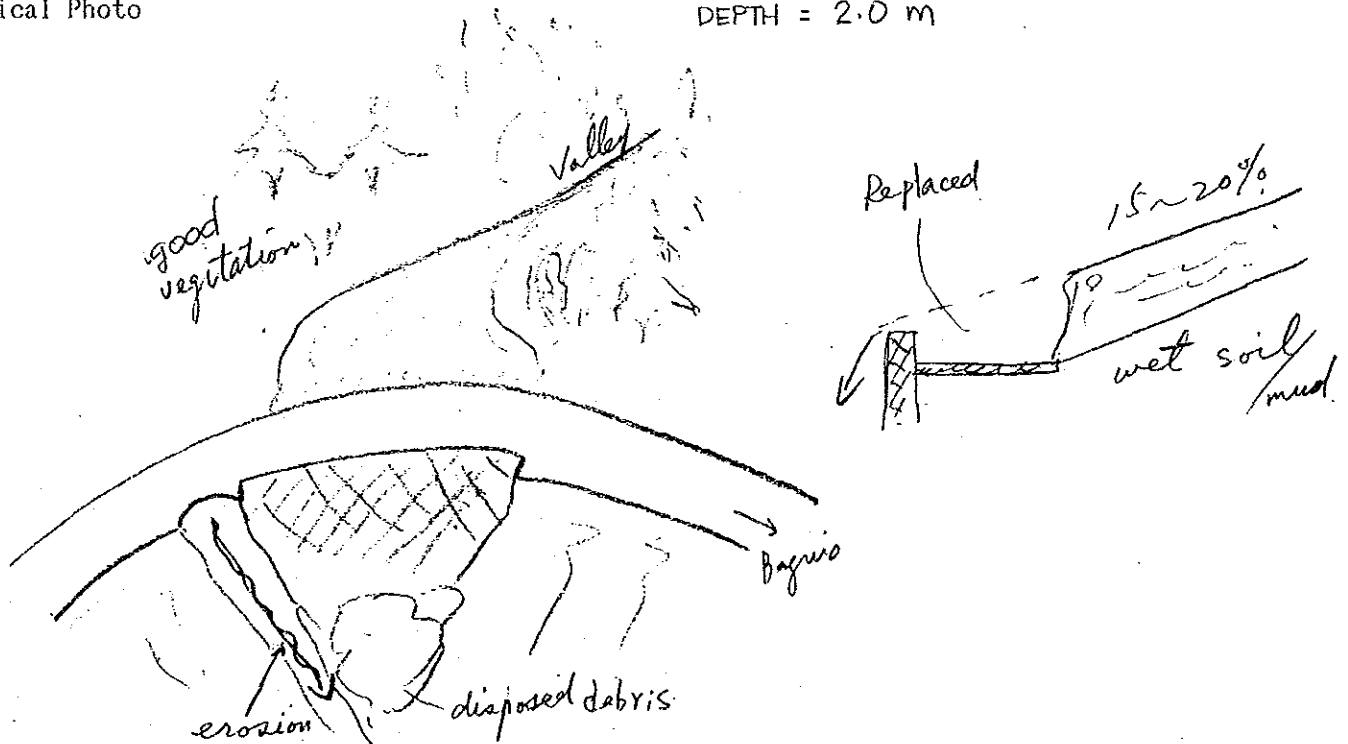


Form-3 : DEBRIS FLOW INSPECTION SHEET

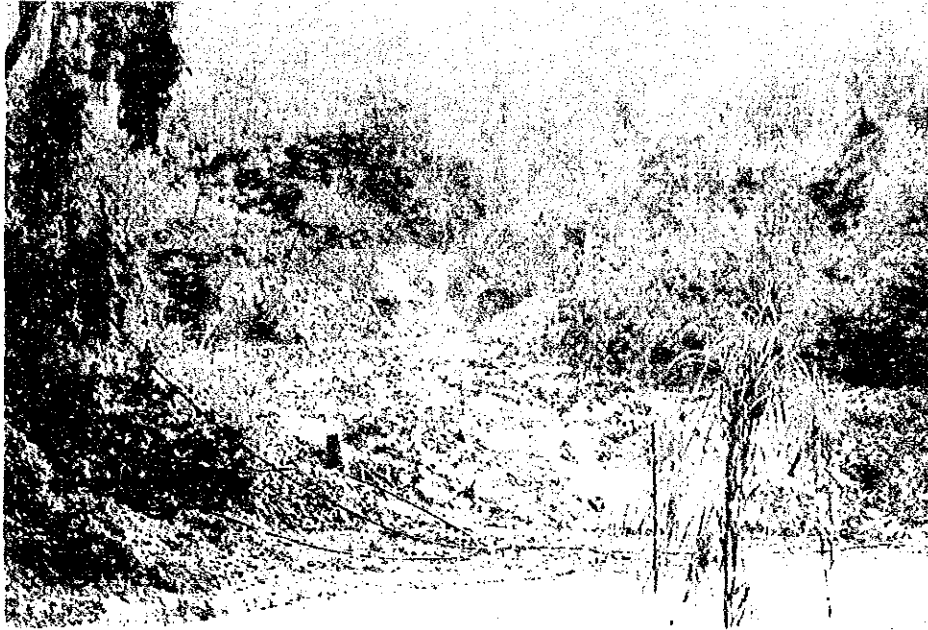
		Name of Province	BENGUET
Road NO.	0225 B	Name of Road	BAGUIO - NUEVA VIZCAYA
Spot NO.	03	Location of Spot	259.00
Classification of Road		(1) National Road	(2) Provincial Road
NO. of Lanes & Roadway Width		(1) 1-lane (2) 2-lane (3) -lane	Total Width: 7.0
Surface Type & Pavement Width		(1) PCC (2) AC (3) Gravel (4) Earth	Pave. Width: 5.0
Terrain		(1) Flat (2) Rolling (3) Mountainous	
Evidence of Flow	1	Size of Damage	(1) Width (15.0 m) (2) Length (50.0 m)
	2	Date Occured	AUGUST / / 1992
	3	Traffic Interruption	Magnitude
		Duration	(1) 1 day < (2) 1~7 days (3) 7 days >
Existing Flow Condition	4	Average Gradient	(1) 20' < (2) 20' ~ 30' (3) 30' >
	5	Area of Basin	(1) 50,000m ² < (2) 50,000~200,000m ² (3) 200,000m ² >
	6	Deposit on Riverbed	(1) None (2) Rare (3) Abundant (4) Overflow
	7	Deposit Material	(1) Clay (2) Sand (3) Gravel (4) Cobble (5) Boulder
	8	Vegetation	Covering Rate of Bare Land or Thin Forest: (1) 50% (2) 50% <
Engineering Judgement	9	Impact to Traffic	(1) Low (2) Medium (3) High
	10	Cause of Damage	WATER CONCENTRATION / SOFT SOIL
	11	Countermeasure	IMPROVE DRAINAGE / WELL PIPE HORIZONTAL
	12	Detour Road	(1) None (2) Available

Typical Photo

DEPTH = 2.0 m



Date of Inspection	02 / SEPT / 1992	Inspector	NAGAMI / JAKE
--------------------	------------------	-----------	---------------



NAME OF ROAD : BAGUIO - NUEVA VIZCAYA ROAD
TYPE OF FAILURE : DEBRIS FLOW
LOCATION : KM 259.0



Form 1 : CUT SLOPE DAMAGE INSPECTION SHEET

		Name of Province	BENGUET		
Road NO.	C225 B		Name of Road	BAGUIO - NUEVA VIZCAYA	
Spot NO.	04		Location of Spot	261.20	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		(1) 1-Lane <input checked="" type="checkbox"/> 2-Lane (3) -Lane	Total Width: 7.0		
Surface Type & Pavement Width		(1) PCC <input checked="" type="checkbox"/> AC (3) Gravel (4) Earth	Pave. Width: 5.0		
Terrain		(1) Flat (2) Rolling	<input checked="" type="checkbox"/> Mountainous		
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()		
	2	Kind of Failure	(1) Gully (2) Erosion <input checked="" type="checkbox"/> Land Slide (4) Rock/Debris Fall		
	3	Size of Failure	(1) Width: 25.0 m (2) Height: 25.0 m (3) Number: 1		
	4	Date Occured	AUGUST / / 1992		
	5	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence	
			Duration	<input checked="" type="checkbox"/> 1 day < (2) 1~7 days (3) 7 days >	
6	Countermeasure		(1) Structure() <input checked="" type="checkbox"/> Removal of Slide Materials		
Existing Slope Condition	7	Height	(1) 10m < <input checked="" type="checkbox"/> 10~30m (3) 30~50m (4) 50m >		
	8	Gradient	(1) 45' < <input checked="" type="checkbox"/> 45' ~60' (3) 60' > (4) Overhang		
	9	Berm	<input checked="" type="checkbox"/> None (2) Existing Number() (3) Width()		
	10	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Structure()		
Geological Condition	Rock	11	Hardness (1) Hard rock (2) Soft Rock (3) ()		
		12	Withering Condition (1) Fresh (2) Slightly Withered (3) Highly Withered (4) Nearly Soil		
		13	Direction of Strata (1) Inclined to Mountain (2) Inclined to Slope (3) Not Clear		
	Soil	14	Condition of Crack (1) Fine Crack (2) Clear (3) Open (4) Clay into Crack		
		15	Thickness (1) 1m < (2) 1~5m <input checked="" type="checkbox"/> 5~10m (4) 10~20m (5) 20m >		
		16	Compactness (1) Tight (2) Slightly Loose <input checked="" type="checkbox"/> Loose		
Weather Condition	17	Degree of Saturation (1) Dry <input checked="" type="checkbox"/> Wet (3) Seepage (4) Spring			
	18	Surface Water Concentration (1) None (2) Low (3) High			
	19	Drainage Facilities (1) Existing() <input checked="" type="checkbox"/> Nothing			
Engineering Judgment	20	Impact to Traffic (1) Low (2) Medium <input checked="" type="checkbox"/> High			
	21	Cause of Damage (1) Concentration of Surface Water (2) Seepage/Spring <input checked="" type="checkbox"/> Steeper than Normal Slope (4) ()			
	22	Countermeasure SABC DAM. TYPE RIPRAP			
	23	Detour Road <input checked="" type="checkbox"/> None (2) Available			
Date of Inspection		02 / SEPT / 1992		Inspector	NAGAMI / JAKE



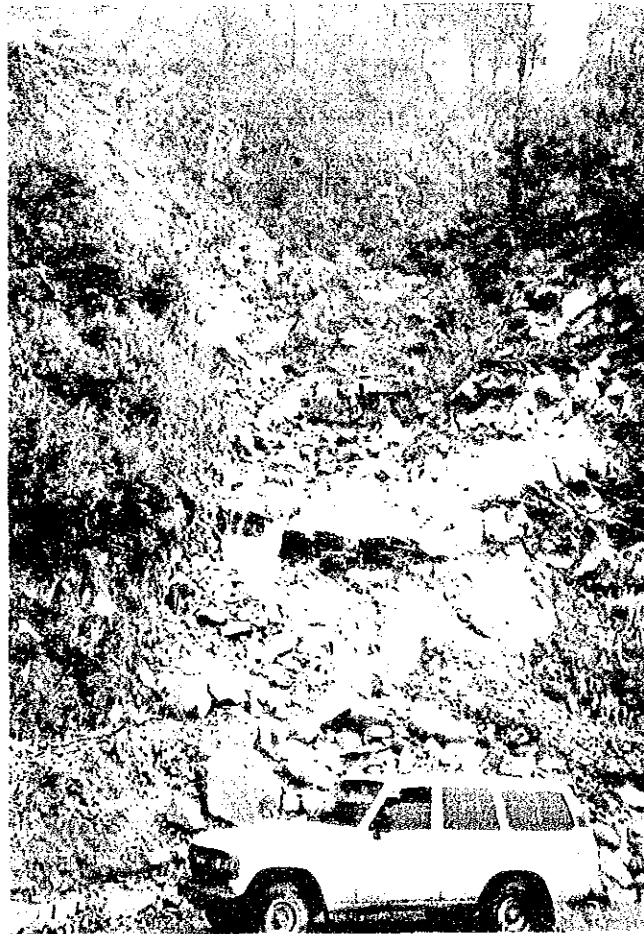
NAME OF ROAD : BAGUIO - NUEVA VIZCAYA ROAD
TYPE OF FAILURE : CUT SLOPE FAILURE
LOCATION : KM 261.2

Form-3 : DEBRIS FLOW INSPECTION SHEET

		Name of Province	BENGUET		
Road NO.	0225 B		Name of Road	BAGUIO - NUEVA VIZCAYA	
Spot NO.	05		Location of Spot	273.10	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		<input checked="" type="checkbox"/> 1-lane (2) 2-lane (3) Lane		Total Width: 5.0	
Surface Type & Pavement Width		(1) PCC (2) AC <input checked="" type="checkbox"/> Gravel (4) Earth		Pave. Width: 5.0	
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous			
Evidence of Flow	1	Size of Damage	(1) Width (10.0 M) (2) Length (40.0 M)		
	2	Date Occured	/ / 19		
	3	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence	
Duration			<input checked="" type="checkbox"/> 1 day < (2) 1~7 days (3) 7 days >		
Existing Flow Condition	4	Avarage Gradient	(1) 20' < (2) 20' ~ 30' <input checked="" type="checkbox"/> 30' > < 60°		
	5	Area of Basin	<input checked="" type="checkbox"/> 50,000m ² < (2) 50,000~200,000m ² (3) 200,000m ² >		
	6	Deposit on Riverbed	(1) None (2) Rare (3) Abundant (4) Overflow		
	7	Deposit Material	(1) Clay (2) Sand (3) Gravel <input checked="" type="checkbox"/> Cobble <input checked="" type="checkbox"/> Boulder		
	8	Vegetation	Covering Rate of Bare Land or Thin Forest: <input checked="" type="checkbox"/> 50% > (2) 50% <		
Engineering Judgement	9	Impact to Traffic	(1) Low (2) Medium <input checked="" type="checkbox"/> High		
	10	Cause of Damage	WATER CONCENTRATION		
	11	Countermeasure	VERTICAL DITCH		
	12	Detour Road	<input checked="" type="checkbox"/> None (2) Available		
Typical Photo <p style="text-align: center;">DEPTH = 3.0 ~ 5.0 M TOP PORTION IS FRESH ROCK</p>					
Date of Inspection		02 / SEPT / 1992		Inspector	NAGAMI / JAKE



NAME OF ROAD : BAGUIO - NUEVA VIZCAYA ROAD
TYPE OF FAILURE : DEBRIS FLOW
LOCATION : KM 273.1



Form-1 : CUT SLOPE DAMAGE INSPECTION SHEET

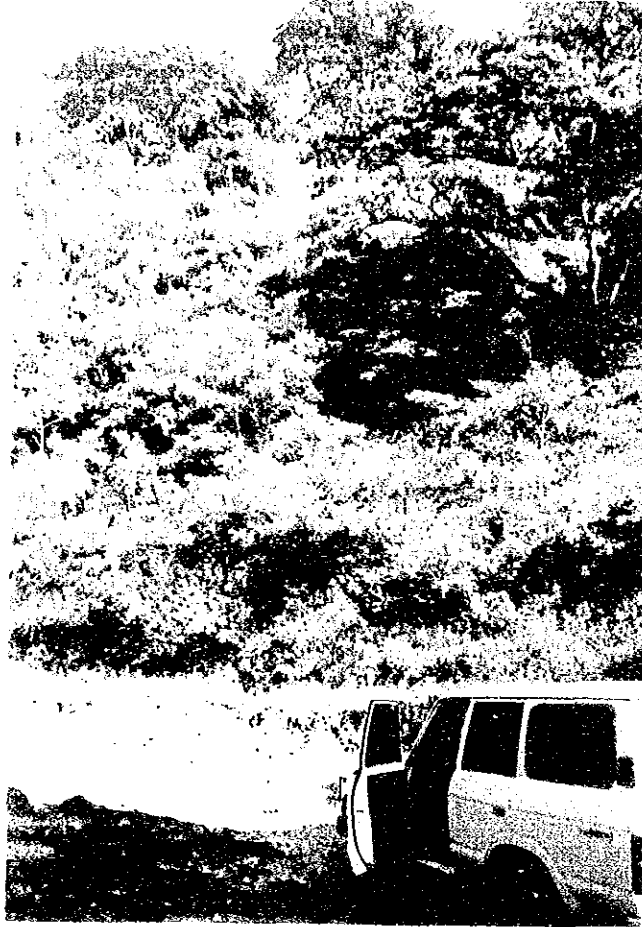
		Name of Province	BENGUET		
Road NO.	0225 B		Name of Road	BAGUIO - NUEVA VIZCAYA ROAD	
Spot NO.	06		Location of Spot	273.40	
Classification of Road		<input checked="" type="checkbox"/> National Road (2) Provincial Road			
NO. of Lanes & Roadway Width		<input checked="" type="checkbox"/> 1-Lane (2) 2-Lane (3) -Lane		Total Width: 5.0	
Surface Type & Pavement Width		(1) PCC (2) AC <input checked="" type="checkbox"/> Gravel (4) Earth		Pave. Width: 5.0	
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> Mountainous			
Evidence of Failure	1	Type of Slope	<input checked="" type="checkbox"/> Cut Slope (2) Natural Slope (3) ()		
	2	Kind of Failure	(1) Gully (2) Erosion <input checked="" type="checkbox"/> Land Slide (4) Rock/Debris Fall		
	3	Size of Failure	(1) Width: 15.0 m (2) Height: 10.0 m (3) Number:		
	4	Date Occured	AUGUST / / 1992		
	5	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> Full Width (2) Half Width (3) Shoulder (4) No Influence	
			Duration	<input checked="" type="checkbox"/> 1 day < (2) 1~7 days (3) 7 days >	
6	Countermeasure	(1) Structure () <input checked="" type="checkbox"/> Removal of Slide Material			
Existing Slope Condition	7	Height	(1) 10m < <input checked="" type="checkbox"/> 10~30m (3) 30~50m (4) 50m >		
	8	Gradient	(1) 45' < <input checked="" type="checkbox"/> 45' ~60' (3) 60' > (4) Overhang		
	9	Berm	<input checked="" type="checkbox"/> None (2) Existing Number () (3) Width ()		
	10	Protection	<input checked="" type="checkbox"/> None (2) Vegetation (3) Structure ()		
Geological Condition	Rock	11	Hardness (1) Hard rock (2) Soft Rock (3) ()		
		12	Withering Condition (1) Fresh (2) Slightly Withered (3) Highly Withered (4) Nearly Soil		
		13	Direction of Strata (1) Inclined to Mountain (2) Inclined to Slope (3) Not Clear		
	Soil	14	Condition of Crack (1) Fine Crack (2) Clear (3) Open (4) Clay into Crack		
		15	Thickness (1) 1m < <input checked="" type="checkbox"/> 1~5m (3) 5~10m (4) 10~20m (5) 20m >		
		16	Compactness (1) Tight <input checked="" type="checkbox"/> Slightly Loose (3) Loose		
Weather Condition	17	Degree of Saturation (1) Dry <input checked="" type="checkbox"/> Wet (3) Seepage (4) Spring			
	18	Surface Water Concentration (1) None <input checked="" type="checkbox"/> Low (3) High			
	19	Drainage Facilities <input checked="" type="checkbox"/> Existing () (2) Nothing			
Engineering Judgement	20	Impact to Traffic (1) Low (2) Medium <input checked="" type="checkbox"/> High			
	21	Cause of Damage <input checked="" type="checkbox"/> Concentration of Surface Water (2) Seepage/Spring <input checked="" type="checkbox"/> Steeper than Normal Slope (4) ()			
	22	Countermeasure RETAINING WALL (5.0m)			
	23	Detour Road <input checked="" type="checkbox"/> None (2) Available			
Date of Inspection		02 / SEPT / 1992		Inspector	NAGAMI / JAKE



NAME OF ROAD : BAGUIO - NUEVA VIZCAYA ROAD
TYPE OF FAILURE : CUT SLOPE FAILURE
LOCATION : KM 273.4

Form-3 : DEBRIS FLOW INSPECTION SHEET

		Name of Province	KALINGA - APAYAO	
Road NO.	0521		Name of Road	KALINGA - CAGAYAN
Spot NO.	01		Location of Spot	475.10
Classification of Road		<input checked="" type="checkbox"/> (1) National Road (2) Provincial Road		
NO. of Lanes & Roadway Width		<input checked="" type="checkbox"/> (1) 1-lane (2) 2-lane (3) -Lane		Total Width: 5.0
Surface Type & Pavement Width		(1) PCC (2) AC <input checked="" type="checkbox"/> (3) Gravel (4) Earth		Pave. Width: 5.0
Terrain		(1) Flat (2) Rolling <input checked="" type="checkbox"/> (3) Mountainous		
Evidence of Flow	1	Size of Damage	(1) Width (≤ 0.0) (2) Length (10.0 >)	
	2	Date Occured	EVERY RAIN / / 19__	
	3	Traffic Interruption	Magnitude	<input checked="" type="checkbox"/> (1) Full Width (2) Half Width (3) Shoulder (4) No Influence
Duration		(1) 1 day < <input checked="" type="checkbox"/> (2) 1~7 days (3) 7 days >		
Existing Flow Condition	4	Avarage Gradient	(1) 20° < (2) 20° ~ 30° (3) 30° >	
	5	Area of Basin	(1) 50,000m ² < (2) 50,000~200,000m ² <input checked="" type="checkbox"/> (3) 200,000m ² >	
	6	Deposit on Riverbed	(1) None (2) Rare (3) Abundant (4) Overflow	
	7	Deposit Material	(1) Clay <input checked="" type="checkbox"/> (2) Sand <input checked="" type="checkbox"/> (3) Gravel <input checked="" type="checkbox"/> (4) Cobble ^{logs} (5) Boulder	
	8	Vegetation	Covering Rate of Bare Land or Thin Forest: <input checked="" type="checkbox"/> (1) 50% (2) 50% <	
Engineering Judgement	9	Impact to Traffic	(1) Low (2) Medium <input checked="" type="checkbox"/> (3) High	
	10	Cause of Damage	KAINGIN, LOGGING SOMETIMES, EROSION	
	11	Countermeasure	RE-ALIGNMENT (BRIDGE)	
	12	Detour Road	<input checked="" type="checkbox"/> (1) None (2) Available	
Typical Photo		DEPTH (NOT CLEAR)		
Date of Inspection		09 / SEPT / 1992		Inspector
				HAGAMI / JAKE



NAME OF ROAD : KALINGA - CAGAYAN ROAD
TYPE OF FAILURE : DEBRIS FLOW
LOCATION : KM 475.1



