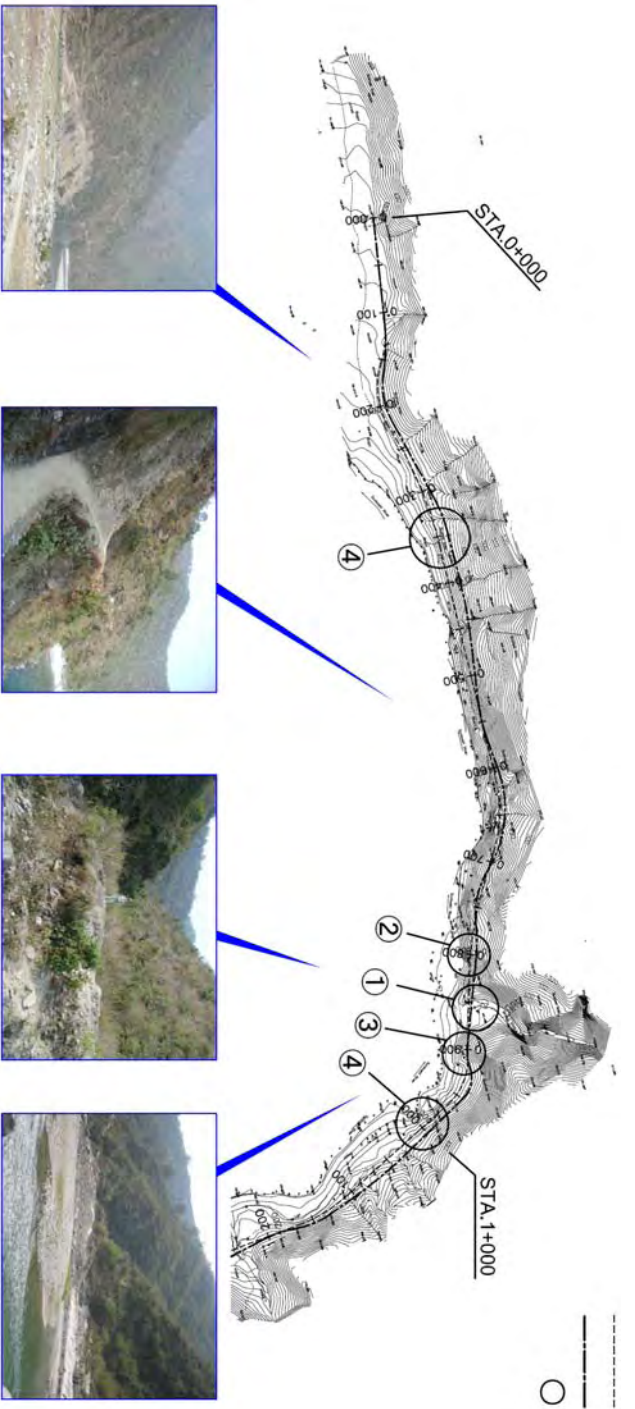


6-7 Alignment Study

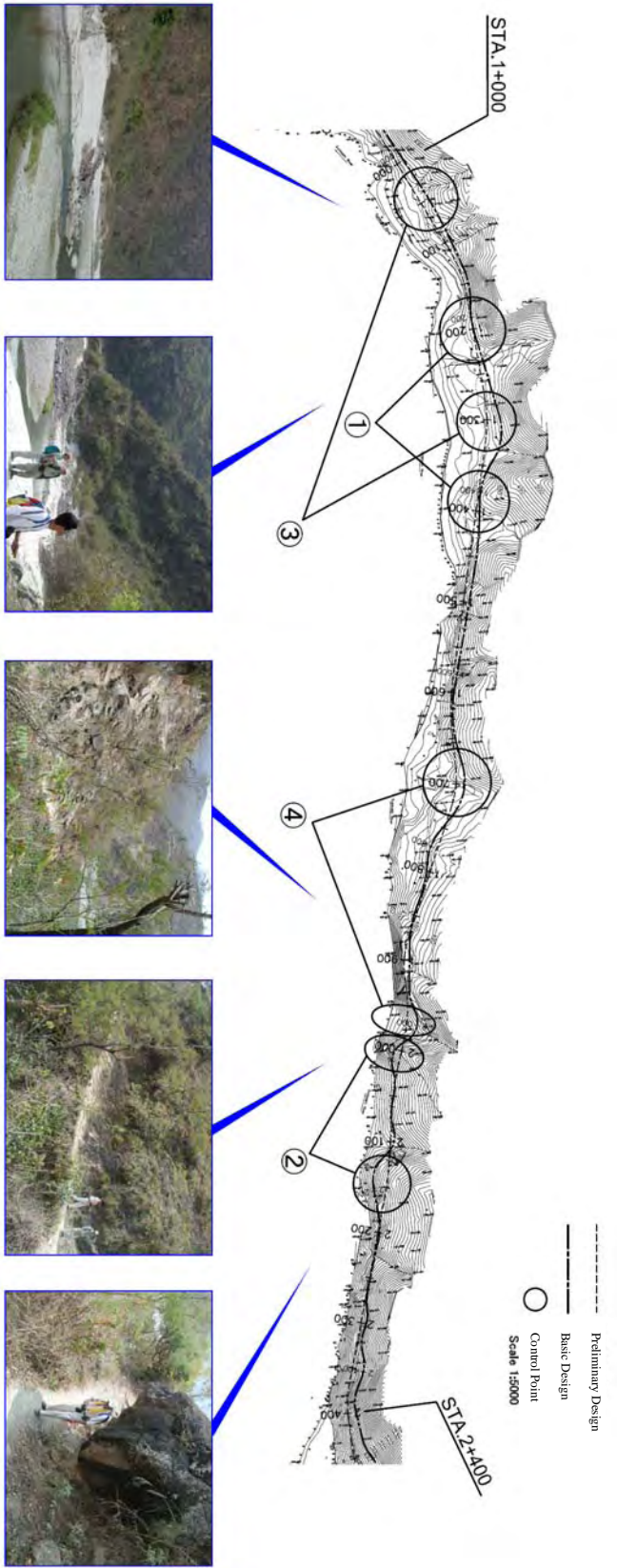


No.1 (STA:0+000~STA:1+000)Route Comparison Results

Subject	Route Comparison	
	Route A (Preliminary Study)	Route B (Basic Design Study)
Control point		①Bank Causeway
Route Length	1,000 m	②STA0+900, Bank Protection
Usage of Existing Road (ETC)	150 m	③STA0+900, Bag Excavation
Compensation for House	None	④Bank Structure Foundation
Compensation for Land	None	
House Relocation	None	
Land Loss	None	
Natural Alluvion	None	
Road Safety	None	
Area Development	None	
Community Disconnection	None	
Land Disconnection	None	
Irregular Ditcher Detour	None	
Impact for Natural Environment	None	
Ecological Assessment	Same as Route B	⑤Medium Excavation
Construction Issue	Higher than Route B	⑥Lower Cost than Route A
Safety for disaster	Many Structures	⑦Good Mass Curve
Crush Comfortness	Unfavor for Flood	⑧Small Cutline Section
Future Maintenance (Land Slide etc)	Almost Straight	⑨Gentle Curve
Landscape	Small Land Slide Expected	⑩Low Possibility
Total Evaluation Result	Same as Route B	Match Naturally
Recommendation Route	△	Selected

Note: Compared Result with each Alternative (○:Advantage, △:Little Disadvantage, Selected)

Alignment Study No.1

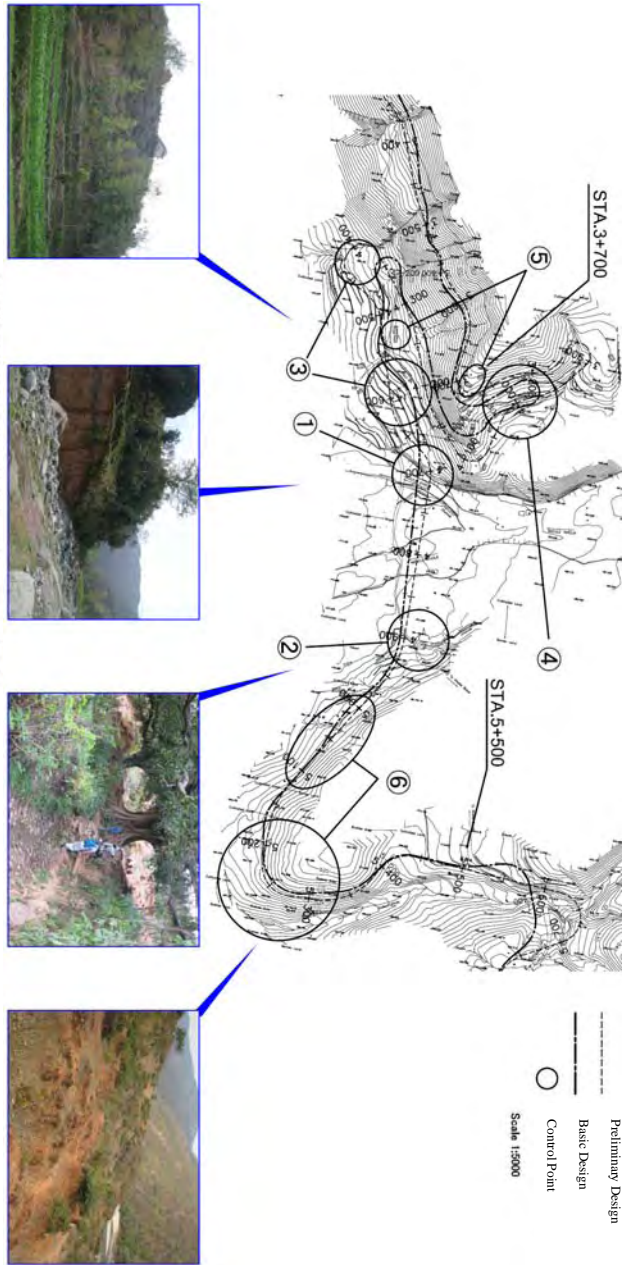


No.2 (STA.1+000~STA.2+400) Route Comparison Results

項目	Route Comparison	
	Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point	① STA.3+300 Land Slide	② STA.3+200 River Bank
		③ STA.4+600 Irrigated Land
		④ Medium Cuck-Pill Area
		⑤
Route Length	1,400 m	1,400 m
Issue of Existing Road (FTO)	Same as Route B	Existing walkway
Compensation for House	None	None
Compensation for Land	None	None
House Relocation	None	None
Land Loss	None	None
Ridge/Weather	None	None
Road Safety	Major	Small
Area Development	None	None
Community Disconnection	None	None
Land Disconnection	None	None
Irrigation Damage Distour	None	None
Lease Improvement	None	None
Impact for Natural Environment	Same as Route B	Good
Economical Assessment	Higher Cost than Route B	Medium
Construction Issue	X	②
Safety for disaster	X	③
Crater Confusion	④	⑤
Future Maintenance (Land Slide etc.)	X	⑥
Landslide	Big Cutting Area	Match Naturally
Total Evaluation Result	Recommendation Route	Selected

Note: Compared Result with each Alternative: ①: Advantage, ②: Little Disadvantage Selected

Alignment Study No.2

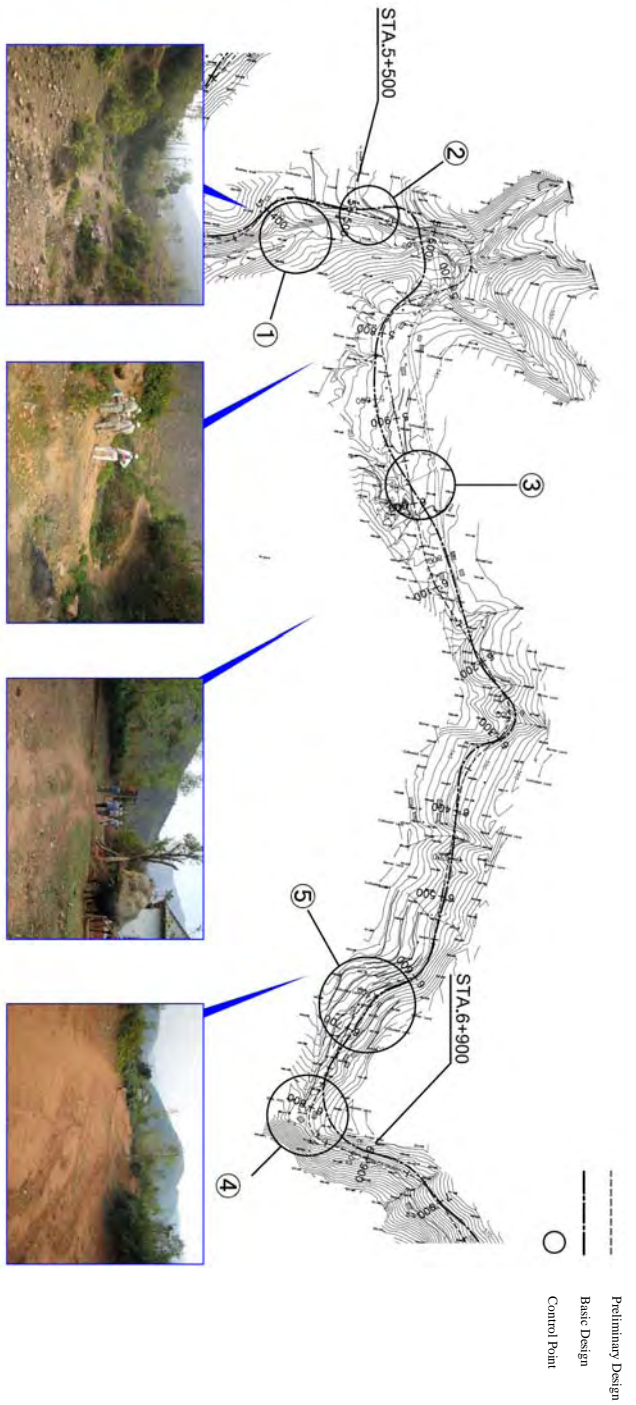


No. 4 (STA.3+700~STA.5+500) Route Comparison Results

項目	Route Comparison	
	Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point	① STA. 3+300 Land Slide	② STA. 3+200 River Bank
	② STA. 4+600 Irrigated Land	③ Midstream Cut&Fill Area
	③ House Location	④ Midstream Cut & Fill Area
	④ Road Length	1,800 m
	⑤ Usage of Existing Road (FTO)	None
	⑥ Compensation for Land	None
	⑦ House Relocation	Many
	⑧ Land Loss	Many
	⑨ Noise/Vibration	Few
	⑩ Road Safety	Small
Social Environment	① Area Development	None
	② Community Disconnection	None
	③ Land Disconnection	Yes
	④ Irrigation Damage Detour	Same as Route B
	⑤ Road Improvement	Same as Route B
	⑥ Impact for Natural Environment	Higher Cost than Route B
	⑦ Ecological Assessment	Long Cutting Section
	⑧ Construction Issue	New Land Slide
	⑨ Safety for Disaster	Small Land Slide Frequency
	⑩ Future Maintenance (Land Slide etc.)	Big Cutting Area
Total Evaluation Result	Recommendation Route	Selected
	Reconstruction Route	Not Selected

Note: Compared Result with each Alternative (ⓐ: Advantage, ⓑ: Little Disadvantage, ⓒ: Disadvantage)

Alignment Study No.4



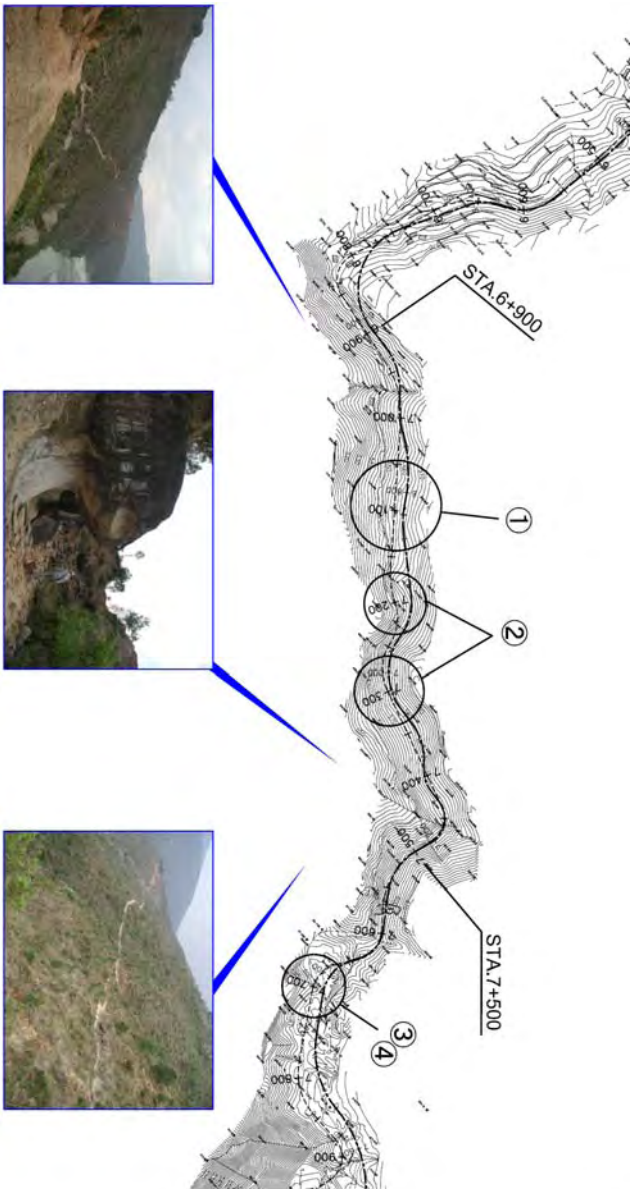
No.5(STA.5+500~STA.6+900) Route Comparison Results

項目	Route Comparison	
	Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point	①Sta.3+900 Land Slide	②Sta.4+200 River Bank
		③Sta.4+900 Irrigated Land
		④Minimum Curb/Pill Area
		⑤Sta.5+700 Existing Road
Subject		
Road Length	1,400 m	1,400 m
Usage of Existing Road (R/O)	60% Use	80% Use
Compensation for House	#15,500 5 each	#25,000 6 each
Compensation for Land		
House Relocation	x	Kept off
Land Loss	More than Route B	Small
Noise/Vibration	Minor	Small
Road Safety	Improved	Same as Route A
Axial Development	Same as Route B	High Possibility
Social Environment	Community Disconnection	None
	Land Disconnection	None
	Irregular Distance Deviate	Only Crossing
	Issue Improvement	Same as Route B
	Issue Improvement	Same as Route B
Impact for Natural Environment	Same as Route B	Mildness
Ecological Assessment	Higher Cost than Route B	Lower Cost than Route A
Construction Issue	Large Cutting section	Small Cutting section
Safety for Disaster	Near Land Slide	Far from Land Slide
Grade Consideration	Small Land Slide Frequency	No Possibility for Land Slide
Future Maintenance (Land Slide etc)	Same as Route B	Low Possibility
Landscaping	Big Cutting Area	Match Naturally
Local Evolution Result		
Recommendation/Route		Selected

Note: Compared Result with each Alternative [O]: Advantage, [△]: Little Disadvantage, [×]: Disadvantage

Alignment Study No.5

- - - Preliminary Design
 ——— Basic Design
 ○ Control Point

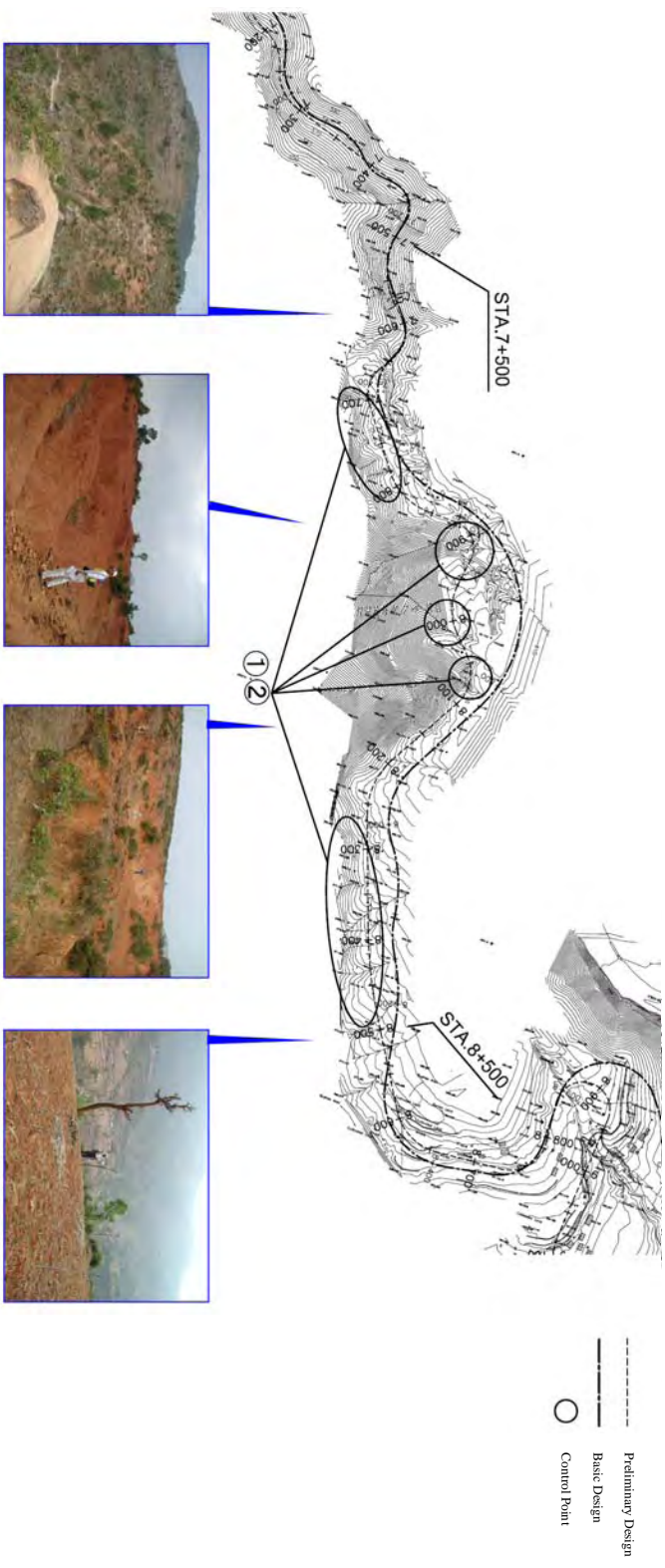


No.6 (STA.6+900~STA.7+500) Route Comparison Results

項目	Route Comparison	
	Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point	①Sta.3+300 Land Slide	②Sta.3+200 Land Slide
	③Sta.4+600 Irrigated Land	④Minimum Cut/Fill Area
Subject	Road Length	600 m
	Usage of Existing Road (RTD)	No. Use
	Compensation for House	each
	Compensation for Land	m ²
	House Resettlement	None
	Land Loss	Bush Only
	Noise/Vibration	None
	Road Safety	Many
	Social Environment	None
	Area Development	None
Condition	Land Disconnection	None
	Irrigation Discharge Detour	None
	Landscape Improvement	None
	Impact for Natural Environment	Same as Route B
	Economic Assessment	Higher Cost than Route B
	Construction Issue	Higher Cost than Route B
	Safety for disaster	Lower Cost than Route A
	Crash Conformances	Lower Cutting Section
	Future Maintenance (Land Slide etc.)	New Land Slide
	Landslide	Small Land Slide Frequency
Total Evaluation Result	Prohibit Route B	
Recommendation Route	Use Cutting Area	
	Selected	

Note: Compared Result with each Alternative: (○) Advantage, (△) Little Disadvantage Selected

Alignment Study No.6



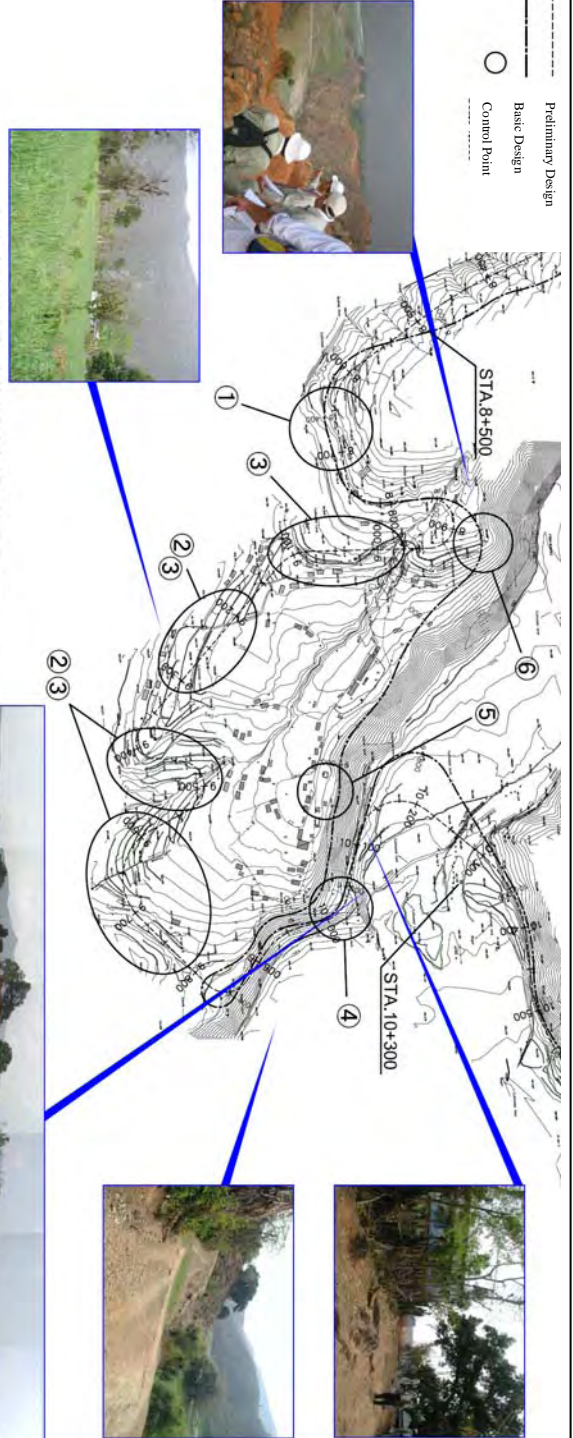
No.7(STA.7+500~STA.8+500) Route Comparison Results

項目		Route Comparison	
		Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point	Control Point		①Sta. 3+300 Land Slide ②Sta. 3+200 River Bank ③Sta. 4+600 Irrigated Land
	Subject		④Minimum Cut/Fill Area
Condition	Road Length	1,000 m	1,000 m
	Usage of Existing Road (RET)	No Use	Existing Walkway ①
	Compensation for House	None	each None ②
	Compensation for Land	None	m ² None ③
	House Relocation	None	None
	Land Loss	Only Red Soil	Only Red Soil
	Noise/Attrition	None	Small
	Road Safety	Major	Small
	Area Development	None	None
	Community Disconnection	None	None
Conclusion	Land Disconnection	None	None
	Irrigation Damage Detour	None	None
	Usage Improvement	None	None
	Impact for Natural Environment	×	Good ④
	Ecological Assessment	Higher Cost than Route B	Minimum ⑤
	Construction Issue	Higher Cost than Route B	Lower Cost than Route A ⑥
	Safety for disaster	Long Cutting Section	Small Cutting Section ⑦
	Crush Comfortness	Near Land Slide	Far from Land Slide ⑧
	Future Maintenance (Land Slide etc)	Small Land Slide Frequency	No Possibility for Land slide ⑨
	Landscape	Big Filling Area	Low Possibility ⑩
Recommendation Route		Big Cutting Area	Selected ⑪

Note: Compared Result with each Alternative ①: Advantage ②: Little Disadvantage Selected

Alignment Study No.7

- Preliminary Design
- Basic Design
- Control Point

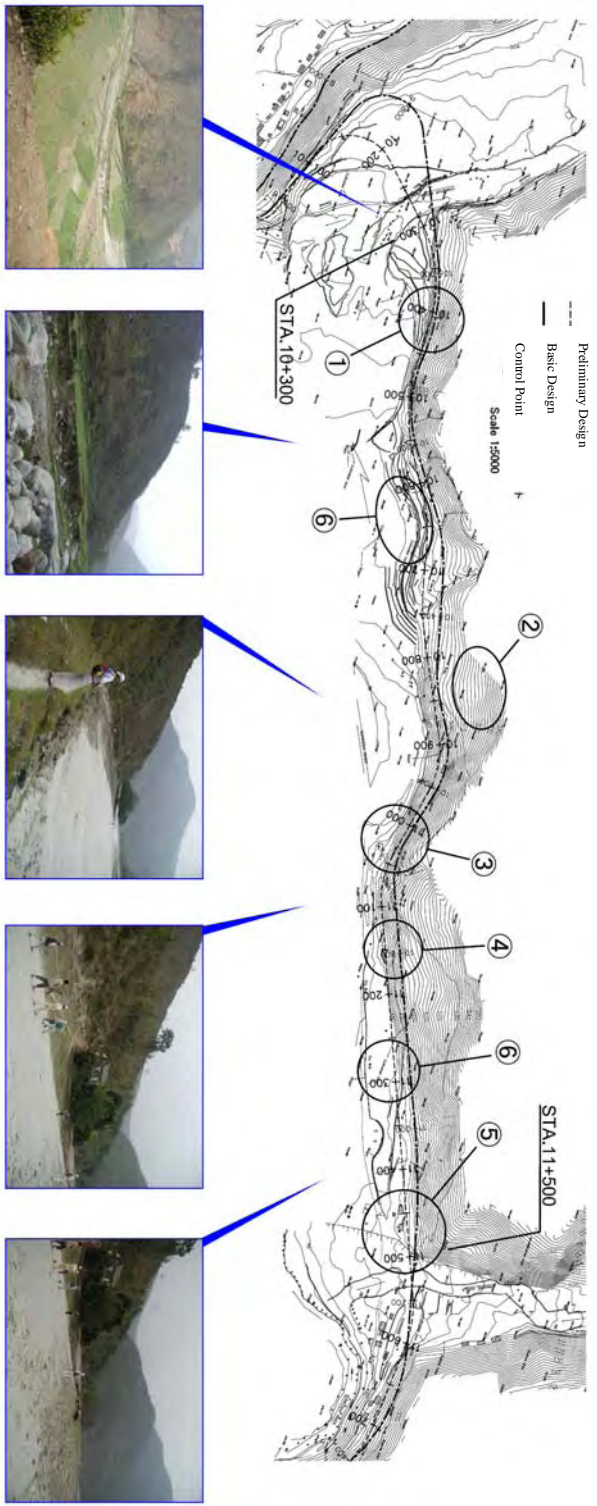


No. 9 (Sta.10+300~STA.11+500) Route Comparison Results

Subject	Route Comparison	
	Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point	①Sta. 3+200 Land Slide	②Sta. 3+200 River Bank
		③Sta. 4+000 Irrigated Land
		④Minimum-Cut/Full Area
		⑤Sta. 11+450 House
		⑥Irrigated Land
Road Length	1,200 m	1,200 m
Change of Existing Road (RTD)	None	None
Compensation for House	4 each	0 each
Compensation for Land	#011,200 m ²	#07,500 m ²
House Relocation	4 each	Kept Off
Land Loss	Many	Small
Nature/Vegetation	None	None
Road Safety	None	None
Area Development	None	None
Community Disruption	None	None
Land Interconnection	None	None
Hydrogen Drainage Defer	None	None
Impact for Natural Environment	Better than Route B	Worse than Route A
Ecological Assessment	Worse than Route B	Better than Route A
Construction Period	Longer than Route B	Shorter than Route A
Safety for Disaster	None	For Route B
Future Maintenance (Land Slope etc.)	Small Land Slide, Frequent	No Possibility for Land Slide
Future Maintenance (Land Slope etc.)	Big Center Area	Low Possibility
Landscaping	Same as Route B	Small
	Same as Route B	River Slope/Good
		River Slope/Good
		Selected

Note: Compared Result with each Alternative: (○) Advantage; (△) Little Disadvantage; (×) Disadvantage

Alignment Study No.8

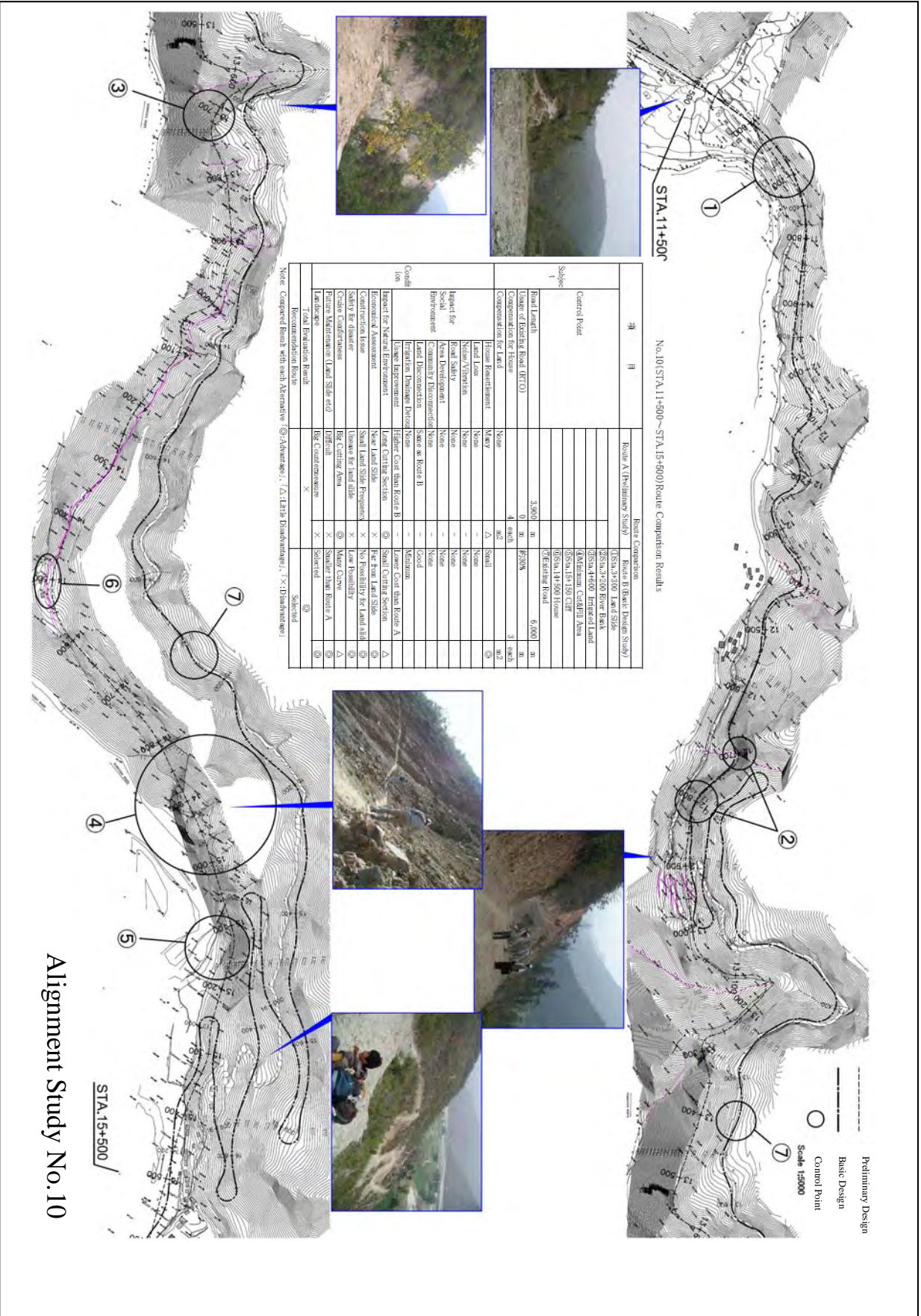


No.8 (STA.8+500~STA.10+300)Route Comparison Results

項目	Route Comparison	
	Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point		①Sta.4+900 Land Slide ②Sta.4+200 River Bank ③Sta.4+900 Irrigated Land ④Minimum Cut&Fill Area ⑤Rest Facility ⑥Irrigation Channel Crossing
Subject	Road Length	1,800 m
	Usage of Existing Road (RTG)	X
Compensation for House	None	2 each
	Compensation for Land	#29,500 m ²
Compensation for Land	House Resettlement	#24,500 m ²
	Land Loss	△ Small
Impact for Social Environment	Natural Vibration	X Small
	Road Safety	△ Accident Possibility
Cultural Environment	Area Development	X Disturbance
	Community Disconnection	X None
Condition	Land Disconnection	X None
	Irrigation Damage Detour	X Same as Route B
Impact for Natural Environment	Usage Improvement	⑥ Better
	Economic Assessment	X Higher Cost than Route B
Construction Issue	Stability for disaster	△ Long Cutting Section
	Crusher Performance (Land Slide etc)	△ Small Land Slide Possibilities
Landscape	Future Maintenance (Land Slide etc)	△ 400m Longer than Route B
	Total Evaluation Result	△ High/Low
Recommendation Route	X	Selected

Note: Compared Result with each Alternative (⊙: Advantage; △: Little Disadvantage; ×: Disadvantage)

Alignment Study No.9



STA. 11+500

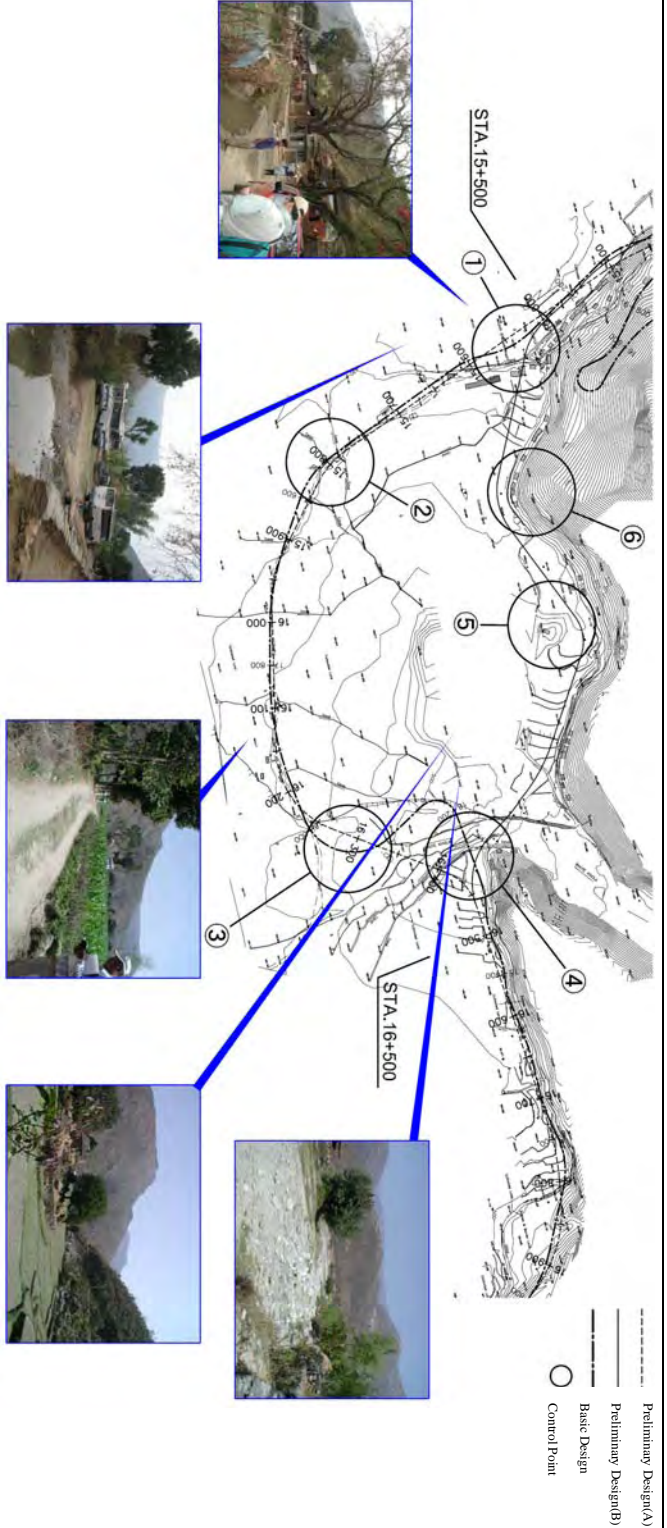
No.10(STA.11+500~STA.15+500)Route Comparison Results

項目	Route Comparison	
	Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point	①	②
	③	④
Subject	⑤	⑥
	⑦	⑧
Route Length	3,900 m	6,000 m
Usage of Existing Road (RTD)	0 m	4,900 m
Construction for Road	4 m	1 m
Construction for Land	None	Small
House Relocation	None	Small
Water Use	None	Small
Water Pollution	None	Small
Road Safety	None	None
Impact for Area Development	None	None
Community Development	None	None
Land Reclamation	Same as Route B	Good
Irregular Damage	None	Medium
Land Improvement	Higher Cost than Route B	Lower Cost than Route A
Impact for Natural Environment	Large Cutting Section	Small Cutting Section
Ecological Assessment	None	Per from Land Slide
Construction Loss	Small Land Slide Frequency	No Possibility for Land Slide
Safety for disaster	Unsure for land slide	Low Possibility
Cracks/Conformances	Big Cutting Area	Many Cracks
Future Maintenance (Land Slide etc)	Difficult	Smaller than Route A
Land-use	Big Conformances	Spared
7 total Evaluation Result	①	②
Recommendation Route	Selected	Selected

Note: Compared Result with each Alternative (△:Advantage, (A):Little Disadvantage, (X):Disadvantage)

Alignment Study No. 10

STA. 15+500

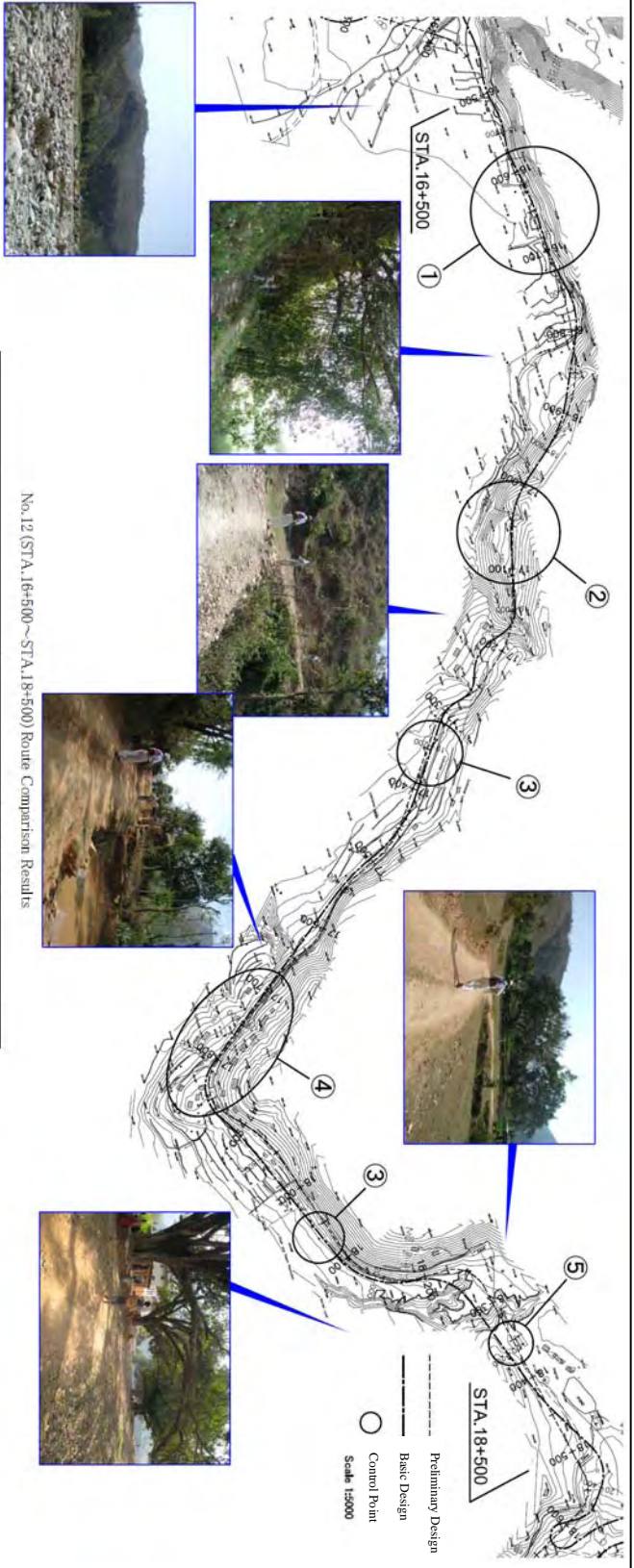


No.11 (STA.15+500~STA.16+500) Route Comparison Results

項目	Route Comparison			
	Route A (Preliminary Study)	Route B (Basic Design Study)	Route C (Basic Design Study)	
Control Point	② Village	① Slope, 3+300 Land Slide	① Slope, 15+800 Business building	
	③ Irrigated Land	② Slope, 3+200 River Bank	② Slope, 15+800 High Tree	
		③ Slope, 4+600 Irrigated Land	③ Slope, 15+300 River Bank	
		④ Irrigation, Cattle/Pig Area	④ Bridge, Cattleway	
Subsite	Road Length	1,000 m	800 m	1,000 m
	Usage of Existing Road (E/T/O)	600 m	0 m	600 m
	Compensation for House	4 each	3 each	0 each
	Compensation for Land	#224,000/m ²	#915,000/m ²	#274,000/m ²
	House Relocation	4 each	3 each	4 each
	Land Loss	Major	Small	Small
	Noise/Vibration	Small	Big	Small
	Road Safety	Good	x Expected Accident	x Poor Irrigated Land
	Impact for Area Development	Possible	x	x
	Social Environment	Disconnection	None	Major
Land Disconnection	Disconnection	None	Major	
Friction Displacement Distance	Same as Route B	Good	Low Filling	
Impact for Natural Environment	Lower than Route B	Medium	Cross Distance	
Economical Assessment	Higher Cost than Route B	Lower Cost than Route A	Lower than Route B	
Construction Issue	Large Cut/High Section	Small Cut/High Section	River Protection	
Safety for Disaster	Next Land Slide	Far from Land Slide	River Protection	
Cracks/Concrete Spikes	Small Land Slide, Pile-ups	No Possibility for Land Slide	River Protection	
Future Maintenance (Land Slide etc.)	Same as Route C	New Possibility	Fill Good	
Addressing	Big Cutting Area	New Houses	Small Cost	
Total Evaluation Result	Same as Route C	Same as Route C	Fill Good	
Recommendation Issue	None	None	Selected	

Note: Compared Result with each Alternative (②: Advantage, ③: Little Disadvantage, ④: Disadvantage)

Alignment Study No. 11

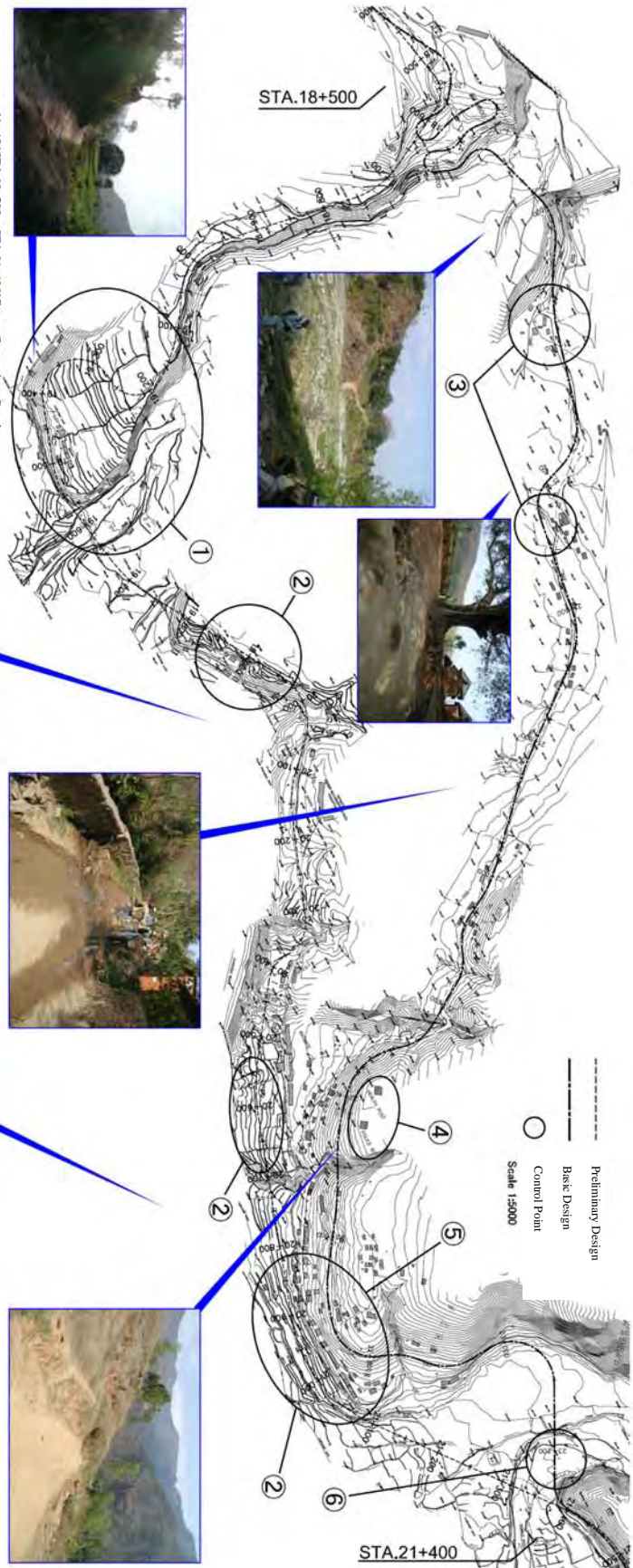


No.12 (STA.16+500~STA.18+500) Route Comparison Results

項目	Route Comparison		
	Route A (Preliminary Study)	Route B (Basic Design Study)	
Control Point		QSta.3+200 Land Slide	
		QSta.3+200 River Bank	
		QSta.4+000 Irrigated Land	
		QMinimum Cut&Fill Area	
Road Length	2,000 m	2,000 m	
	Usage of Existing Road (KTO)	10% △	100% ◎
Compensation for House	4 each	3 each	
	Compensation for Land	¥12,000 m ²	¥25,000 m ²
Impact for Social Environment	House Relocation	None	◎
	Land Loss	△	◎
	Waste/Abandon	Many	◎
	Road Safety	Many Countermeasures	△
	Area Development	Small	◎
	Community Disconnection	None	◎
	Land Disconnection	None	◎
	Irrigation Damage/Deform	Deform	◎
	Usage Improvement	Same as Route B	△
	Impact for Natural Environment	None	◎
Construction Issue	Economical Assessment	Higher Cost than Route B	△
	Safety for disaster	Long Cutting Section	△
	Crude Conformances	Near Land Slide	△
	Future Maintenance (Land Slide etc)	Small Land Slide Frequencies	△
	Landscape	Same as Route B	△
Total Evaluation Result	Recommending Route	△	
	Selected	◎	

Note: Compared Result with each Alternative. (◎: Advantage, (△: Little Disadvantage, (×: Disadvantage)

Alignment Study No.12



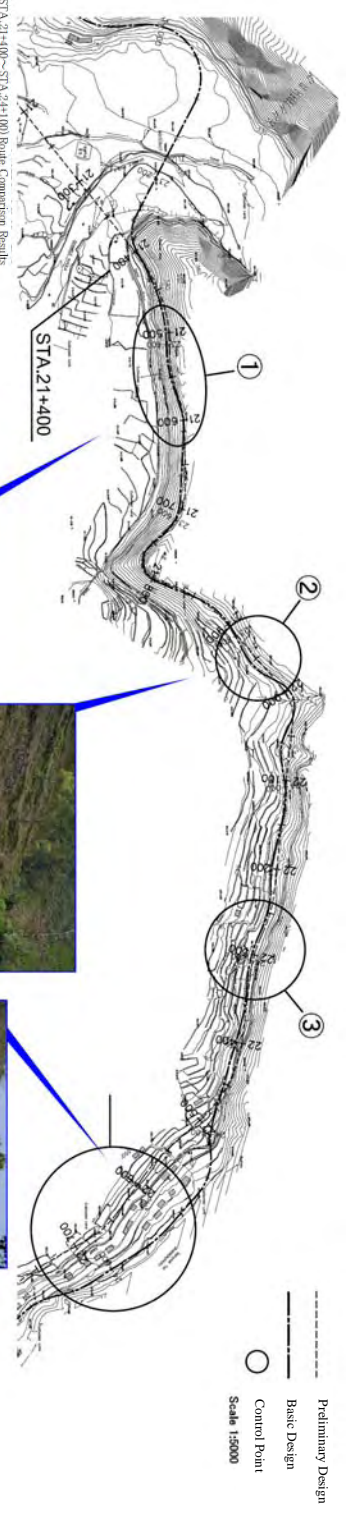
No. 13 (STA.18+600~STA.21+400) Route Comparison Results

項目	Route Comparison	
	Route A (Preliminary Study)	Route B (Best Design Study)
Subject	Control Point	① STA.18+500 Land Slide ② STA.19+200 River Bank ③ STA.19+600 Eroded Land ④ Minimum Cut/Fill Area ⑤ STA.20+900 Village Area ⑥ Private Cemetery
	Road Length	2,900 m
	Usage of Existing Road (R/C/D)	None
	Construction for River	13 m
	Construction for Land	① 498,000 m ² ② 45,000 m ² ③ 15,000 m ² ④ 13,000 m ²
	Water Retention	1 length
	Water Diversion	△
	River Cutting Area	△
	Village Area	△
	Private Cemetery	△
Impact for Environment	Land Dissection	△
	Community Disconnection	△
	Land Dissection	△
	Intrusive Damage Behavior	△
	Large Improvement	△
	Impact for Natural Environment	△
	Economical Assessment	△
	Construction Issue	△
	Safety for disaster	△
	Cracks/Conductions	△
Future Maintenance (Land Slide etc)	△	
Landscape	Big Cutting Area	△
	Low Land / No Good	△
Total Evaluation Result	△	
Recommendation Result	①	

Note: Compared Result with each Alternative: (△) Advantage, (△) Little Disadvantage, (×) Disadvantage, (①) Selected

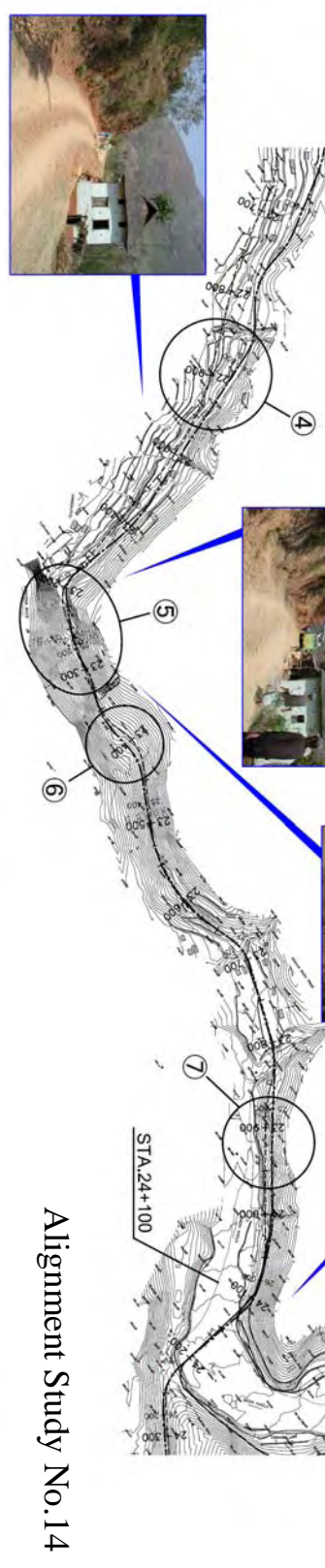
Alignment Study No.13

No. 14 (STA.21+100~STA.24+100) Route Comparison Results



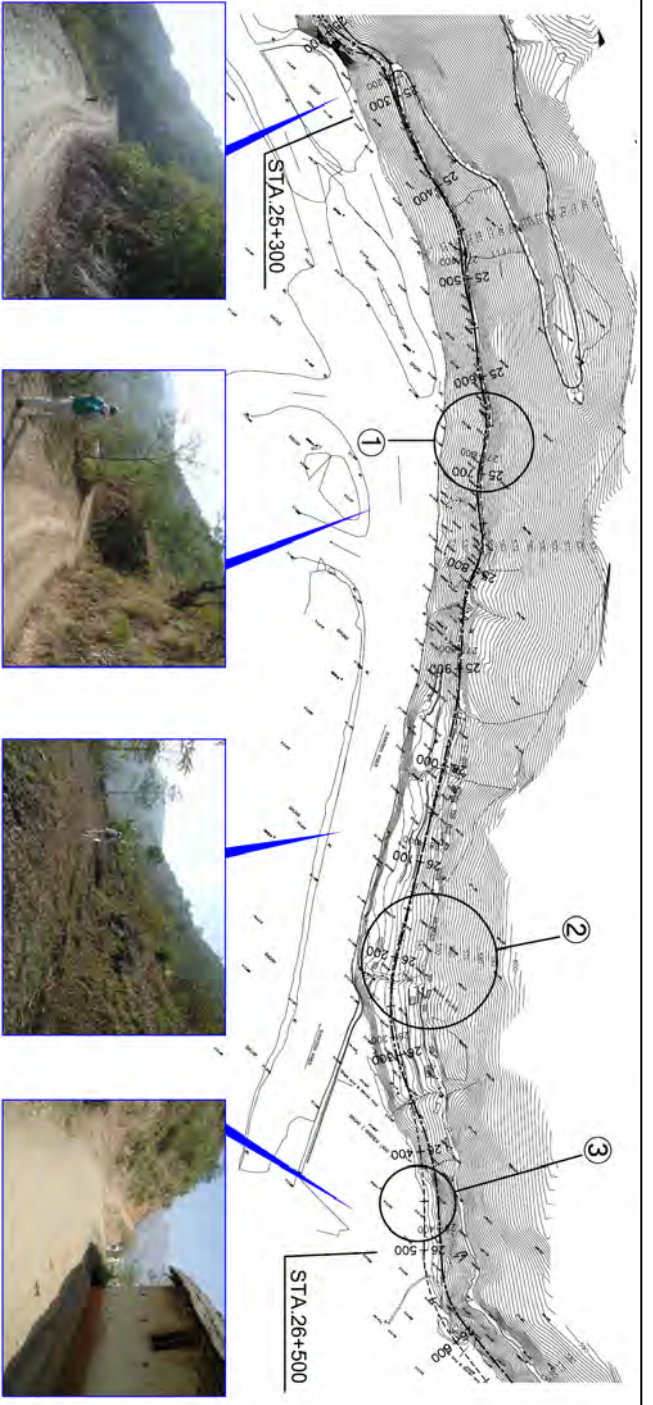
No.	Item	Route Comparison	
		Route A (Preliminary Study)	Route B (Basic Design Study)
Subject 1	Control Point	205m, 210m River Bank	205m, 210m River Bank
		210m, 215m Land	210m, 215m Land
		215m, 220m Land	215m, 220m Land
		220m, 225m Land Slope	220m, 225m Land Slope
		225m, 230m Land Slope	225m, 230m Land Slope
		230m, 235m Land Slope	230m, 235m Land Slope
		235m, 240m Land Slope	235m, 240m Land Slope
		240m, 245m Land Slope	240m, 245m Land Slope
		245m, 250m Land Slope	245m, 250m Land Slope
		250m, 255m Land Slope	250m, 255m Land Slope
	Road Length	2,700 m	300 m
	Volume of Earthwork (FT3)	700	0
	Volume of Earthwork (M3)	100	0
	Construction Cost for Road	#22,000	#20,000
	Construction Cost for Bridge	0	0
	House Relocation	Many	Small
	Land Loss	Many	Small
	Vegetation	More than Route B	Small
	Road Safety	As existing	As existing
	Area Development	None	None
	Community Disruption	None	None
	Transition Distance Factor	None	None
	Impact for Social Environment	None	None
	Impact for Natural Environment	Higher cost than Route B	Lower cost than Route A
	Economic Assessment	Long Cutting Section	Short Cutting Section
	Geotechnical Issue	None	None
	Safety for Disaster	Same as Route B	Same as Route B
	Future Maintenance (Land Slope)	Same as Route B	Same as Route B
	Landscape	Same as Route B	Selected
	Recommendation Route	Selected	Selected

Note: Compared Result with each Alternative: (O) Advantage, (Δ) Little Disadvantage, (▽) Disadvantage.



Alignment Study No.14

Preliminary Design
 Basic Design
 Control Point

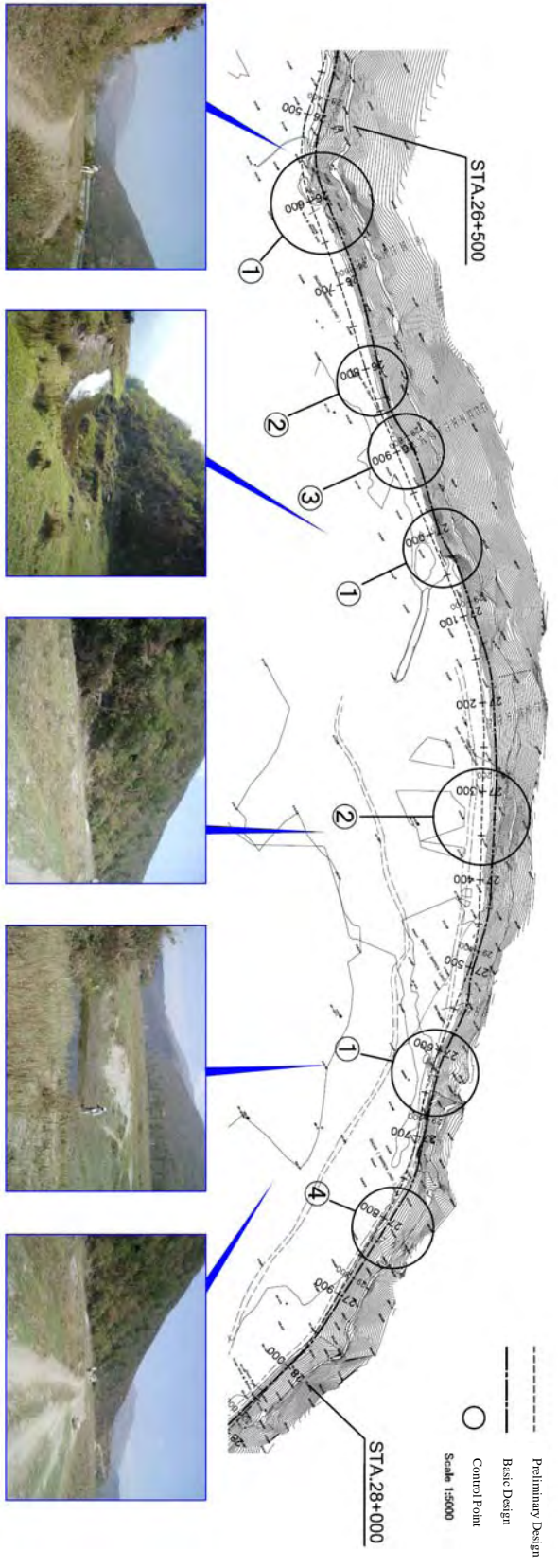


No.16(STA.25+300~STA.26+500) Route Comparison Results

項目	Route Comparison	
	Route A(Preliminary Study)	Route B(Basic Design Study)
Control Point	①Sta.3+300 River Bank	②Sta.4+200 River Bank
Subject	③Sta.4+600 Irrigated Land	④Middian Cattle/Rill Area
Road Length	1,290 m	m
Usage of Existing Road (RTG)	90% △	90% △
Compensation for House	Leach each	Leach each
Compensation for Land	#912,000 m ²	#912,000 m ²
House Relocation	Leach	Leach
Land Loss	Oblivious	Oblivious
Noise/Air Pollution	Small	Small
Road Safety	Small	Small
Impact for Social Environment	Minor	Small
Area Development	None	None
Community Disconnection	Disconnection	Disconnection
Land Disconnection	None	None
Irrigation Drainage Dispute	None	None
Water Improvement	Good	Good
Impact for Natural Environment	as existing	as existing
Economical Assessment	Same as Route B	Good
Construction Issues	Bigger than Route B	Minimum
Safety for disaster	Higher Cost than Route B	Lower Cost than Route A
Critical Conflicts	Lower Cutting Section	Small Cutting Section
Future Maintenance (Land Slide etc)	New Land Slide	Free from Land Slide
Landscape	Small Land Slide Frequency	No Possibility for Land slide
Total Evaluation Result	△	△
Recommendation Route	Big Cutting Area	Low Possibility Selected

Legend: (○) Advantage, (△) Little Disadvantage, (×) Disadvantage

Alignment Study No.16

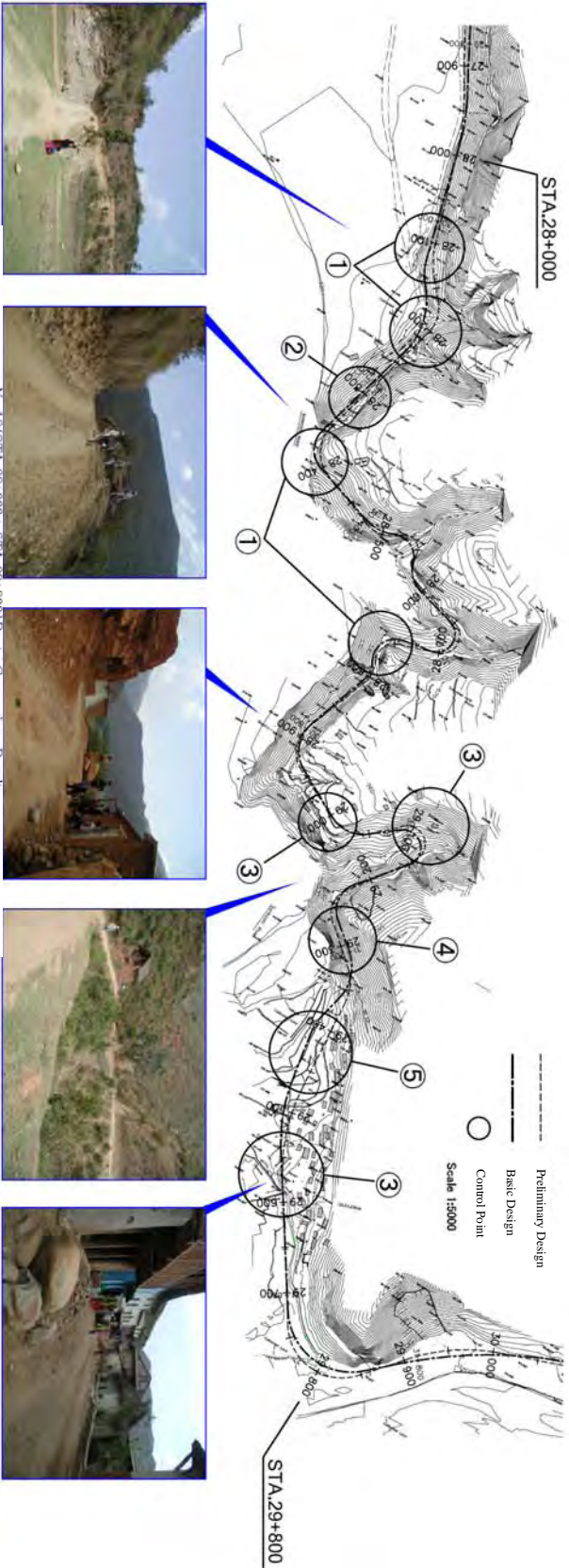


No.17(STA.26+500~STA.28+000) Route Comparison Results

項目	Route Comparison	
	Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point	0(S)A,3+300 Land Slide	0(S)A,3+300 River Bank
	0(S)A,4+600 Irrigated Land	
	0(M)Minimum Cut/Fill Area	
Subject		
Road Length	1,560 m	1,560 m
Usage of Existing Road (RTD)	100%	0%
Compensation for House	each	each
Compensation for Land	m2	m2
House Renovation	None	None
Land Loss	None	None
Noise/Vibration	None	None
Road Safety	Many	Small
Impact for Social Area Development	None	None
Community Dis.	None	None
Land Disenters	None	None
Irrigation Drain	None	None
Issue Improve	None	None
Impact for Natural Environment	Same as Route B	None
Economical Assessment	High Cost for Flood	Minimum
Construction Issue	X Higher Cost than Route B	X
Safety for diameter	X Large Cutting Section	X Small Cutting Section
Crash Conformance	X Near Land Slide	X Far from Land Slide
Future Maintenance (Land Slide Small Land Slide Frequency)	X	0
Land Slope	Lower than Route B	Low Possibility
Total Pavement Ratio	Big Cutting Area	0
Recommendation Route		Selected

Note: Compared Result with each Alternative: (0):Advantage, (△):Little Selected

Alignment Study No.17

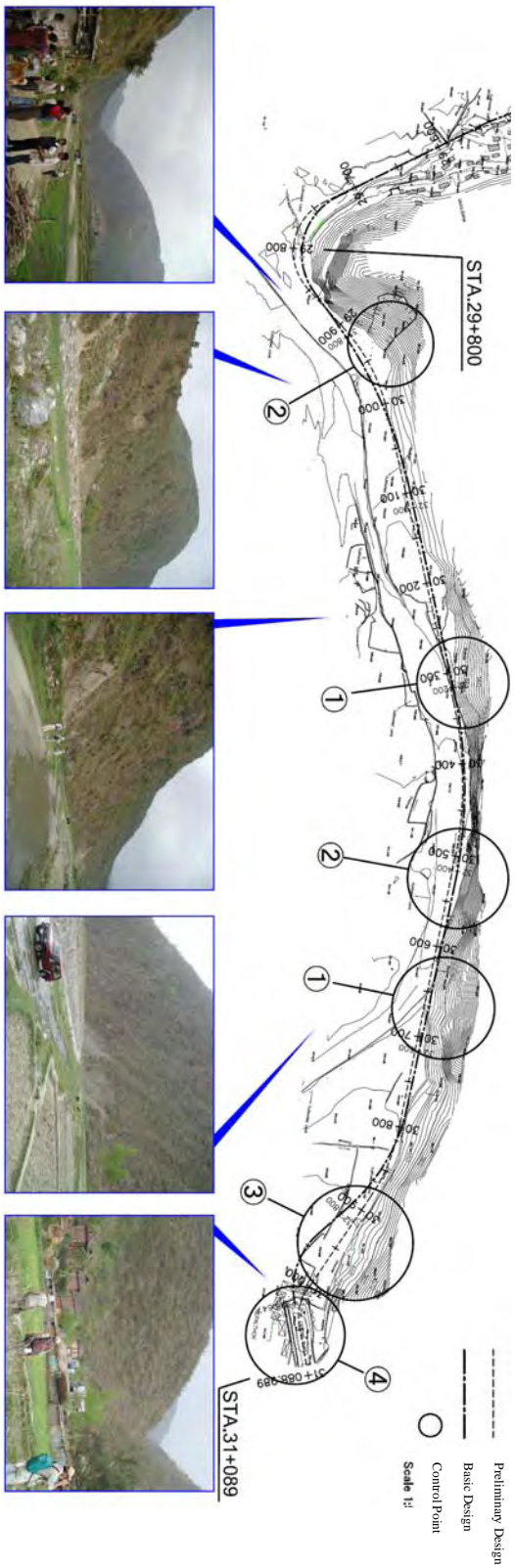


No. 18 (S:FA:28+000)~(S:FA:29+800) Route Comparison Results

項目	Route Comparison	Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point		① STA.3+300 Land Slide	② STA.3+200 River Bank
		③ STA.4+600 Eroded Land	④ Minimum Cut&Fill Area
Subject	Road Length	1,800 m	1,800 m
	Usage of Existing Road (RTO)	1,300 m	1,300 m
Condition	Compensation for House	7 each	1 each
	Compensation for Land	¥12,000 m ²	¥12,000 m ²
Impact for Social Environment	House Relocation	×	None
	Land Loss	○	○
	Noise/Vibration	△	△
	Road Safety	△	△
	Area Development	△	△
	Community Disconnection	△	△
	Land Disconnection	△	△
	Irrigation Drainage Detour	△	△
	Usage Improvement	△	△
	Impact for Natural Environment	△	△
	Ecological Assessment	△	△
	Construction Issue	△	△
Safety for disaster	△	△	
Crush Compensance	△	△	
Future Maintenance (Land Slide etc)	△	△	
Landscaping	△	△	
Total Evaluation Result	△	△	
Recomendation Result	△	△	

Note: Compared Result with each Alternative [◎: Advantage], [△: Little Disadvantage], [×: Disadvantage]

Alignment Study No.18



No.19 (STA.29+800~STA.31+100) Route Comparison Results

項目	Route Comparison	
	Route A (Preliminary Study)	Route B (Basic Design Study)
Control Point		①Sta.3+900 Land Slide ②Sta.3+200 River Bank ③Sta.4+800 Irrigated Land ④Minimum Cut/DFI Area
Board Length	1,200 m	1,200 m
Usage of Existing Road (RTO)	None	None
Compensation for House	None	each None
Compensation for Land	#612,000	#612,000
House Resettlement	Temporary House Only	Temporary House Only
Land Loss	Obligative	Obligative
Noise Attention	None	None
Road Safety	Minor	Small
Area Development	None	None
Community Disconnection	None	None
Land Disconnection	None	None
Irrigation Drainage Detour	Irrigation Channel	Irrigation Channel
Conduit	Layers Improvement	Good
Impact for Natural Environment	Same as Route B	Good
Economical Assessment	Same as Route B	Minimum
Construction Issue	Higher Cost than Route B	Lower Cost than Route A
Safety for disaster	Longer Cutting Section	Small Cutting Section
Cracks Contraction	New Land Slide	Far from Land Slide
Future Maintenance (Land Slide etc)	Small Land Slide Frequencies	No Possibility for Land slide
Landshape	Same as Route B	Low Possibility
Total Evaluation Result	Big Cutting Area	Selected
Recommendation Route		Selected

Note: Compared Result with each Alternative (⊙:Advantage), (△:Little Disadvantage), (Selected)

Alignment Study No.19