

### 3.2.3 基本設計図

BASIC DESIGN STUDY  
ON  
THE PROJECT FOR IMPROVEMENT OF  
DUSTY-NIJINY PYANDZH ROAD  
IN  
REPUBLIC OF TAJIKISTAN

JUNE 2006

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

## CONTENTS OF DRAWINGS

1) PROJECT LAYOUT	G - 1
2) KEY PLAN	G - 2 ~ 14
3) TYPICAL CROSS SECTION	G - 15 ~ 19
4) PLAN AND PROFILE (MAIN ROUTE)	PL - 1 ~ 36
5) PLAN AND PROFILE (CITY ROAD)	PL - 37 ~ 42
6) CROSS SECTION OF ROAD (MAIN ROUTE)	CS - 1 ~ 116
7) CROSS SECTION OF ROAD (CITY ROAD)	CS - 117 ~ 124
8) PLAN OF JUNCTIONS	JC - 1
9) CROSS DRAINAGE (BOX CULVERT)	CD - 1 ~ 24
10) CROSS DRAINAGE (PIPE CULVERT)	CD - 25 ~ 38
11) DETAILS OF EARTH DITCH AND SIDE DITCH	M - 1
12) DETAILS OF ACCESS ROAD AND FACILITIES	M - 2 ~ 3
13) DETAILS OF ROAD SIGNS AND TRAFFIC SIGNAL	M - 4
14) STANDARD PAVEMENT AND PEDESTRIAN MARKINGS	M - 5
15) DETAILS OF GUIDE POST	M - 6
16) DETAILS OF STAIRWAY AND HUMP	M - 7
17) DETAILS OF FENCE	M - 8

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TOTAL 232 Pages



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G-01

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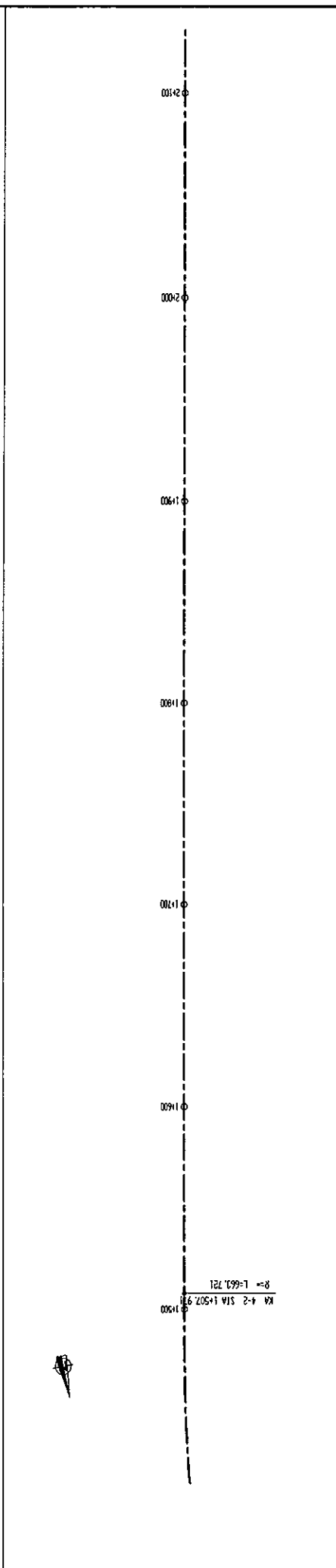
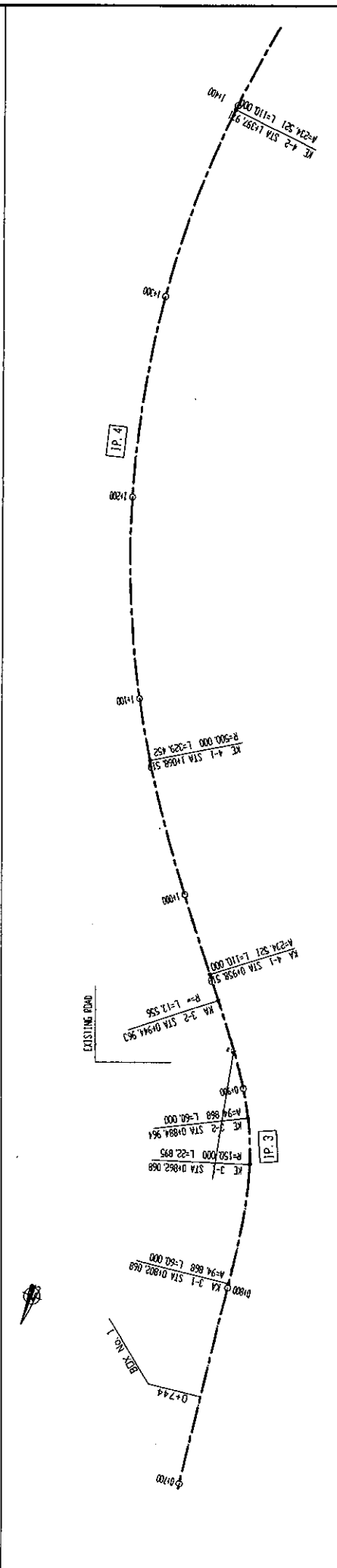
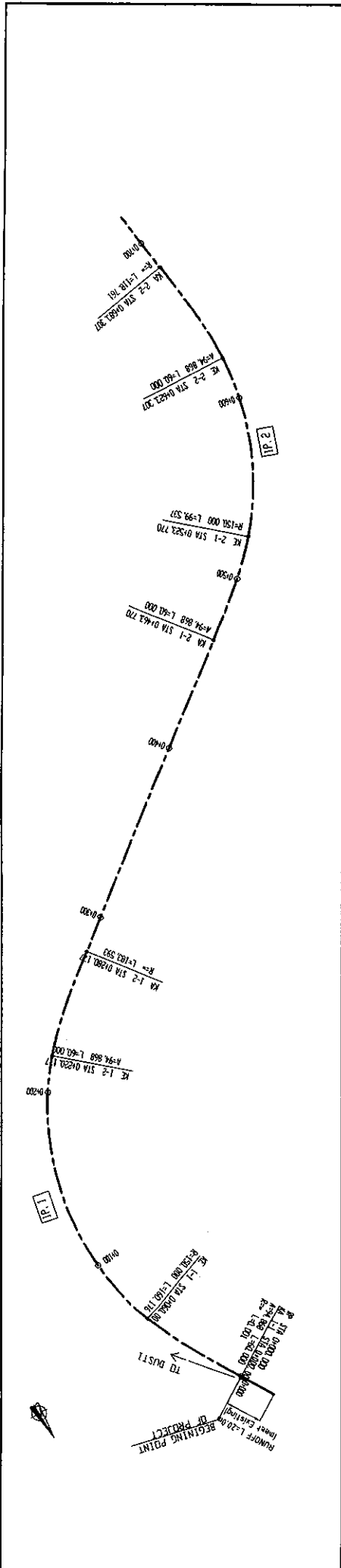
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**LOCATION MAP**

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

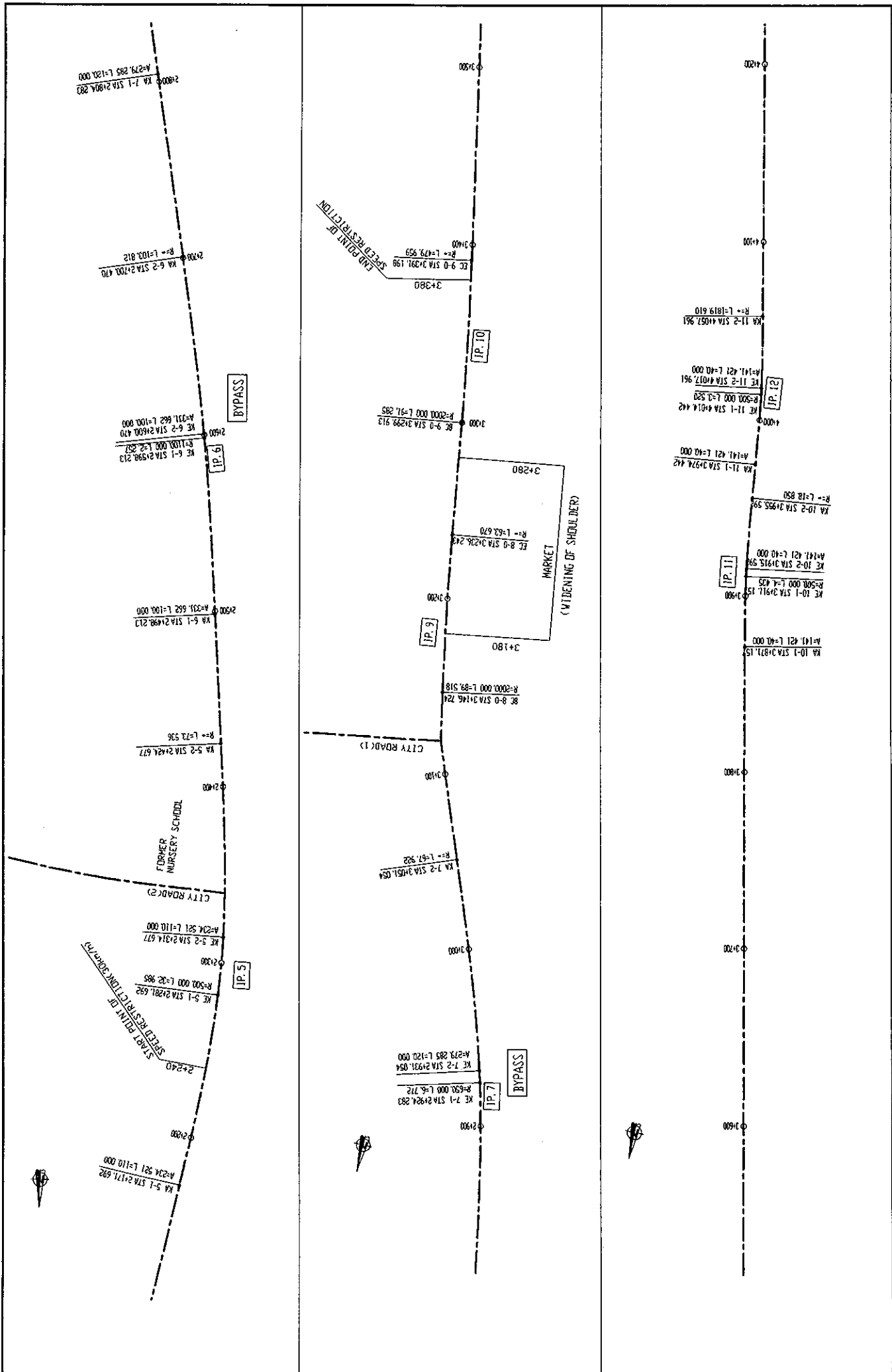
BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

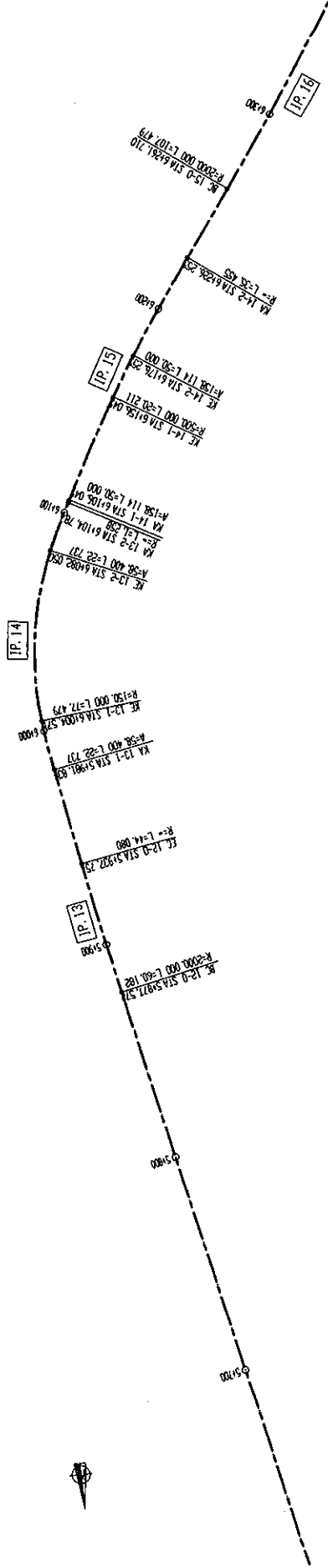




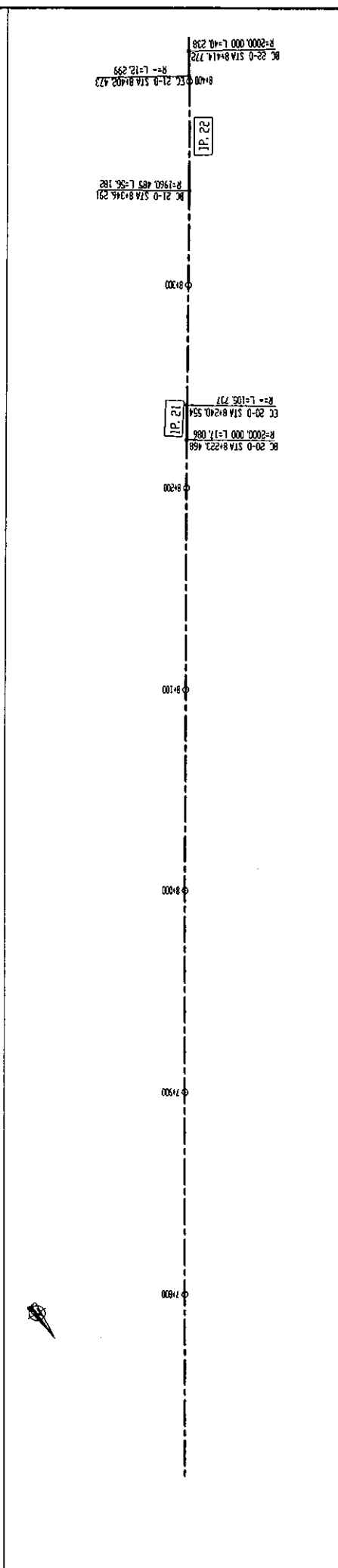
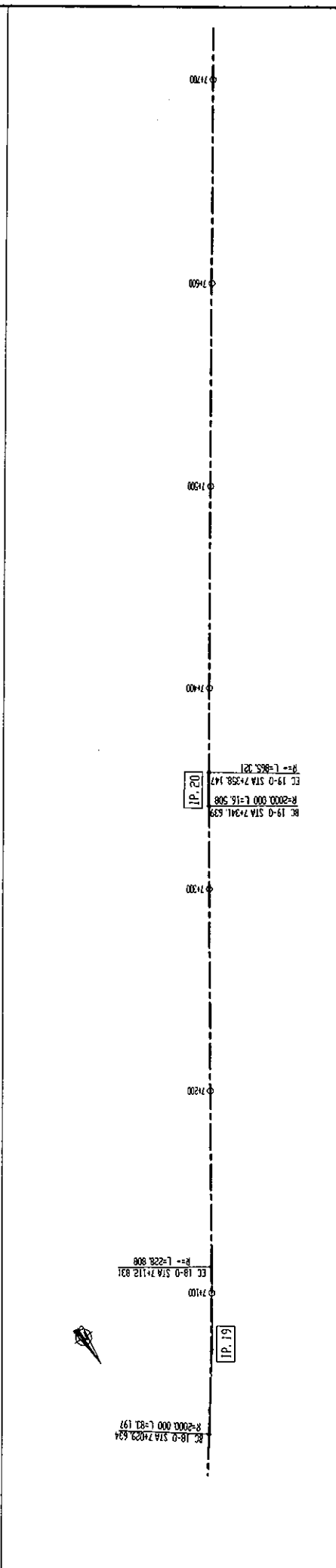
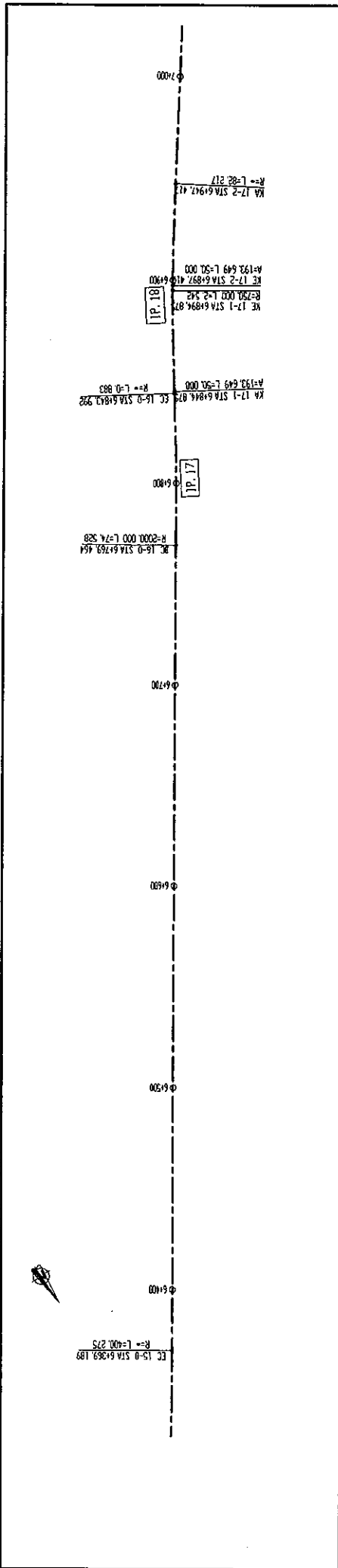
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JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL			
BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN			
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN			



MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	SCALE:	DRAWING No:
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				Rv	

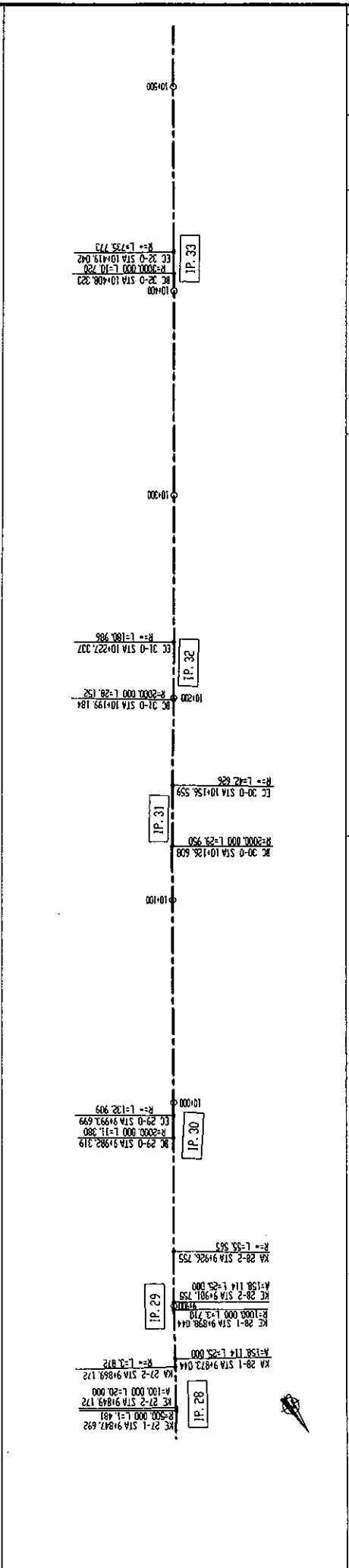
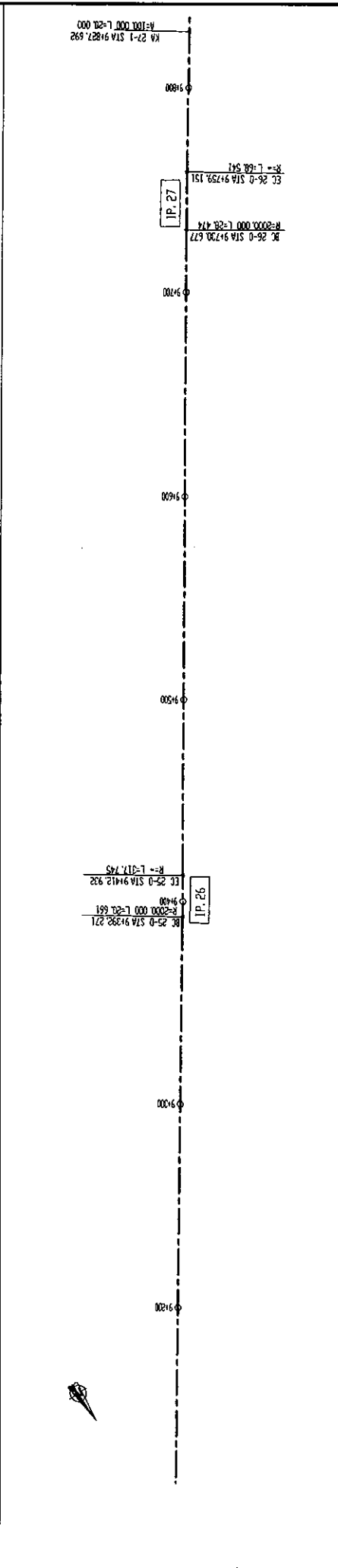
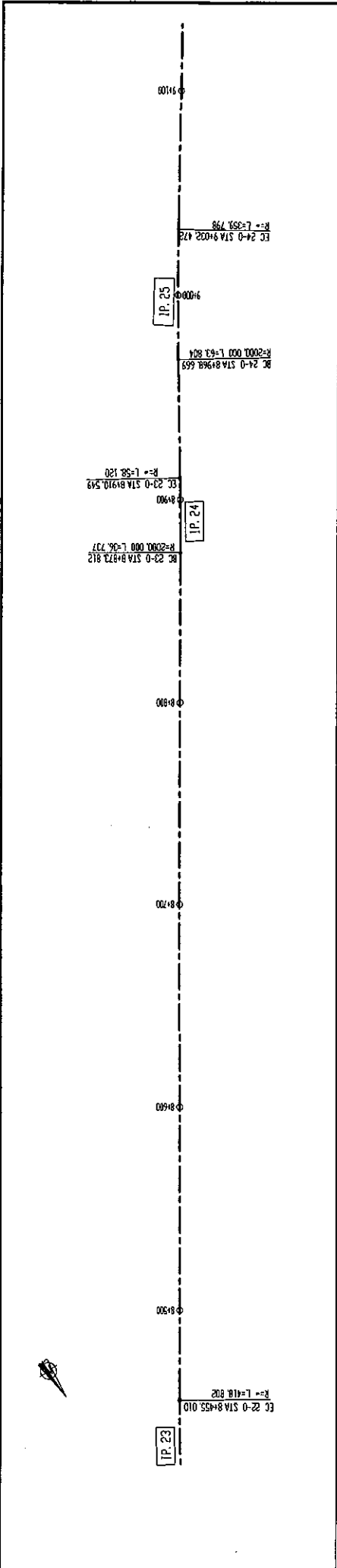


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BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN			Rev.
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN			Rev.

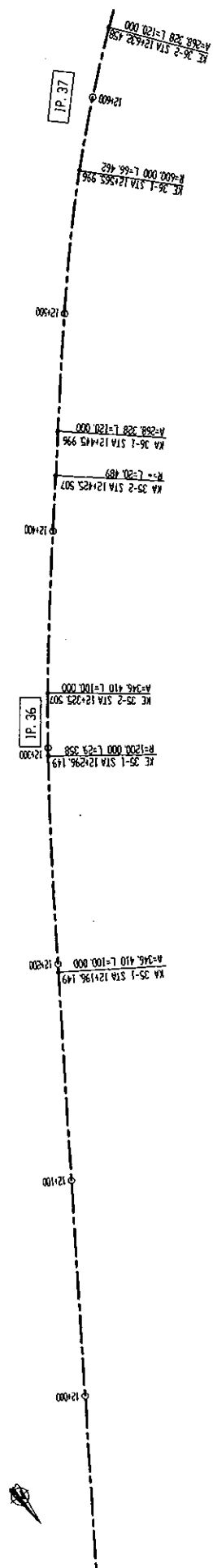
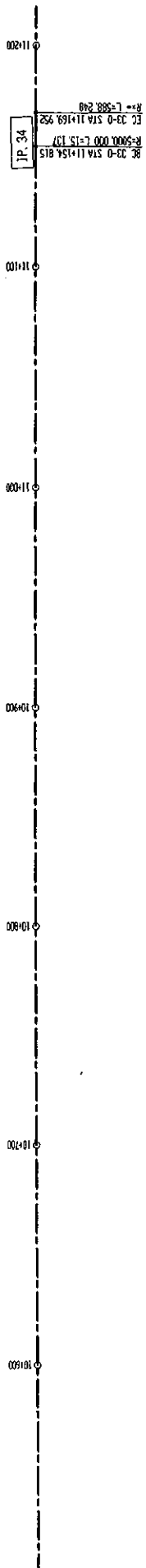


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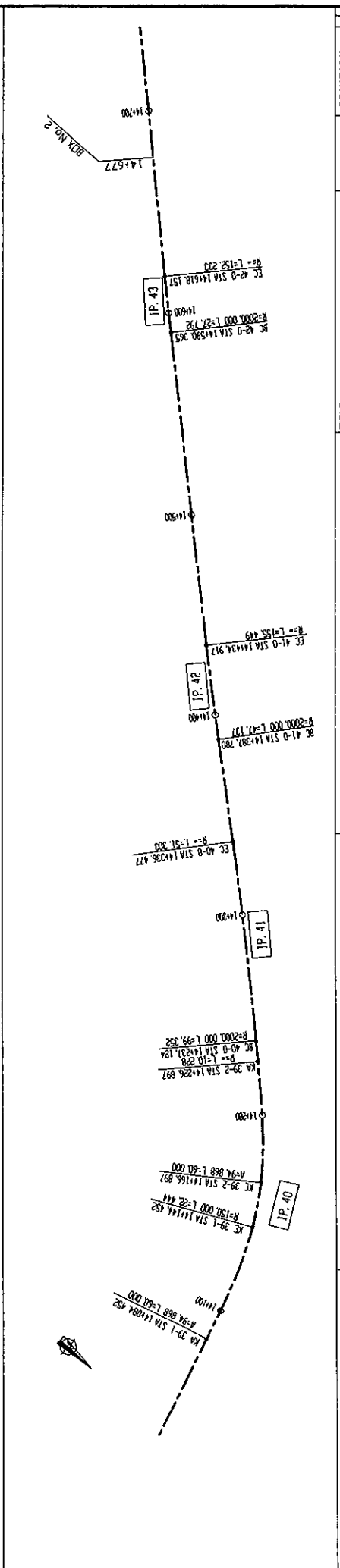
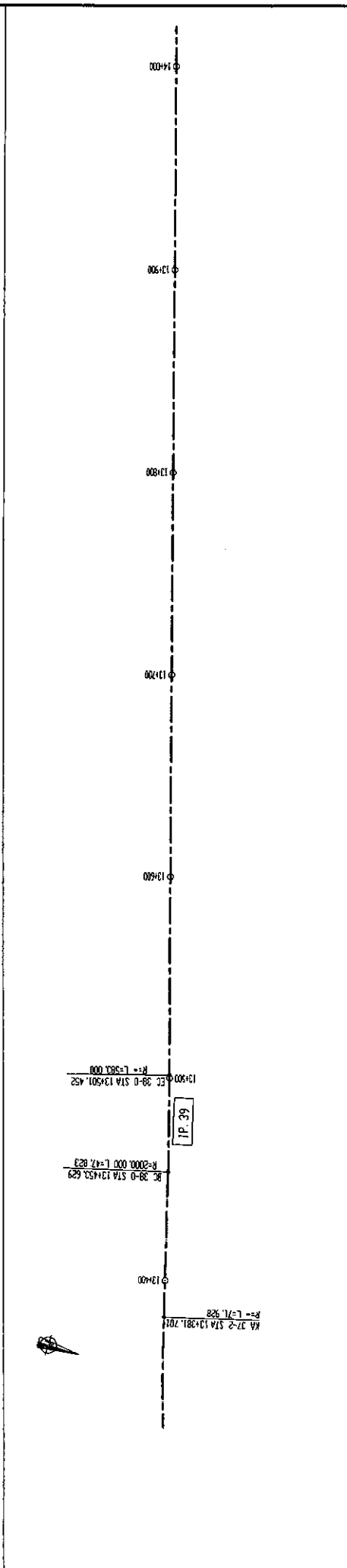
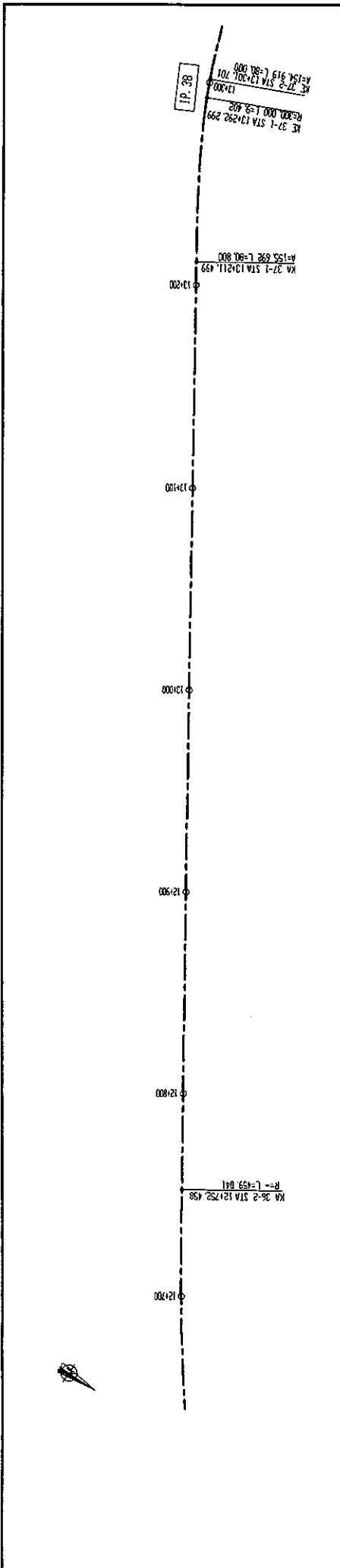




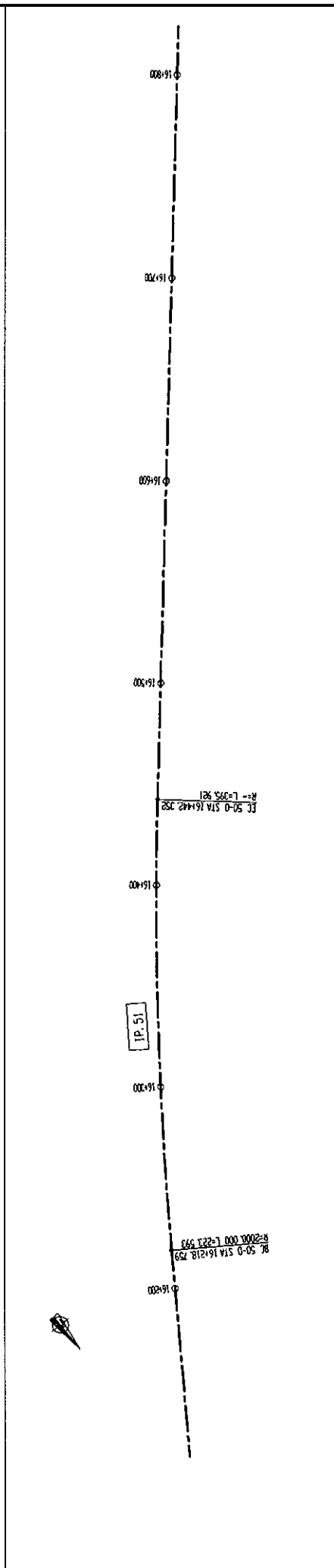
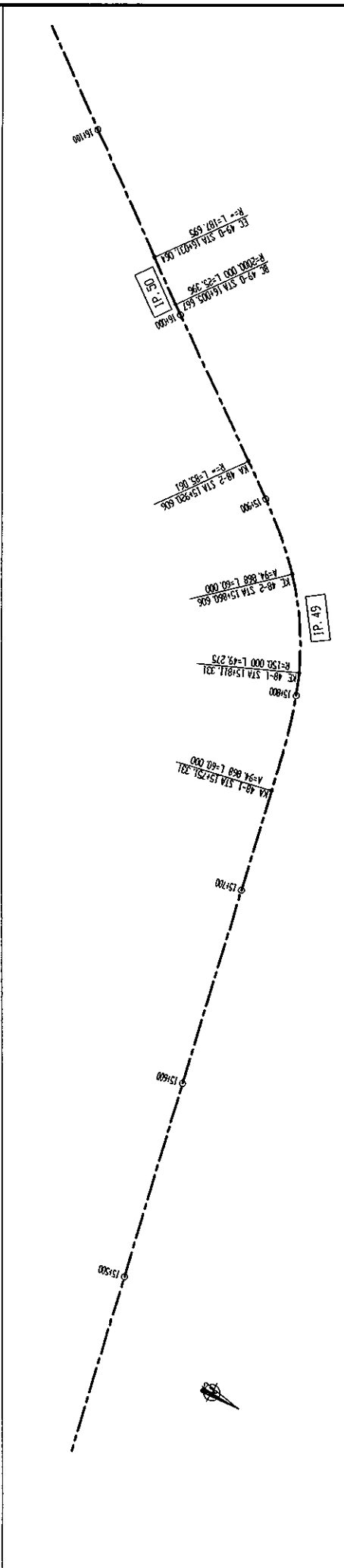
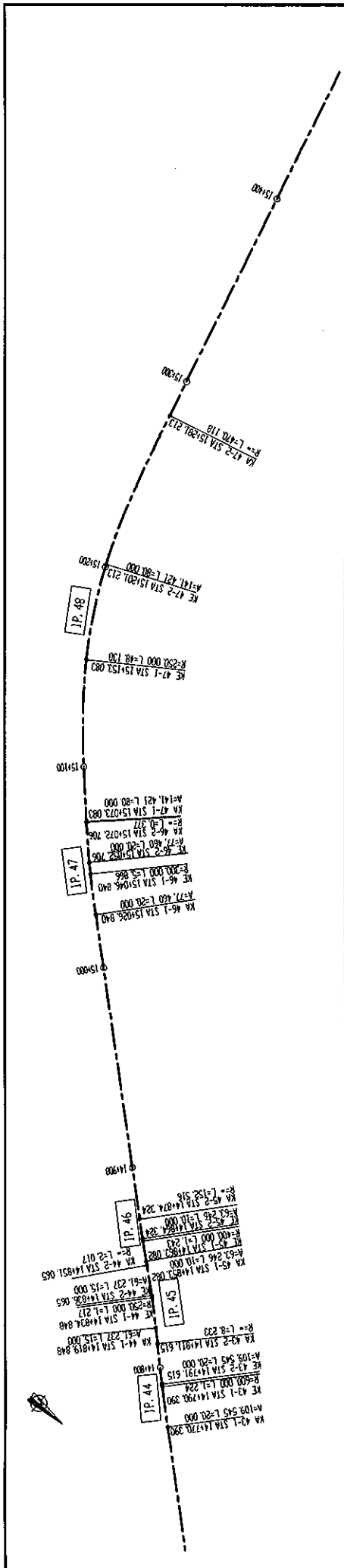
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KATAHIRA & ENGINEERS INTERNATIONAL	
BASIC DESIGN ON THE PROJECT FOR	
IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD	
IN REPUBLIC OF TAJIKISTAN	
MINISTRY OF TRANSPORT	
REPUBLIC OF TAJIKISTAN	



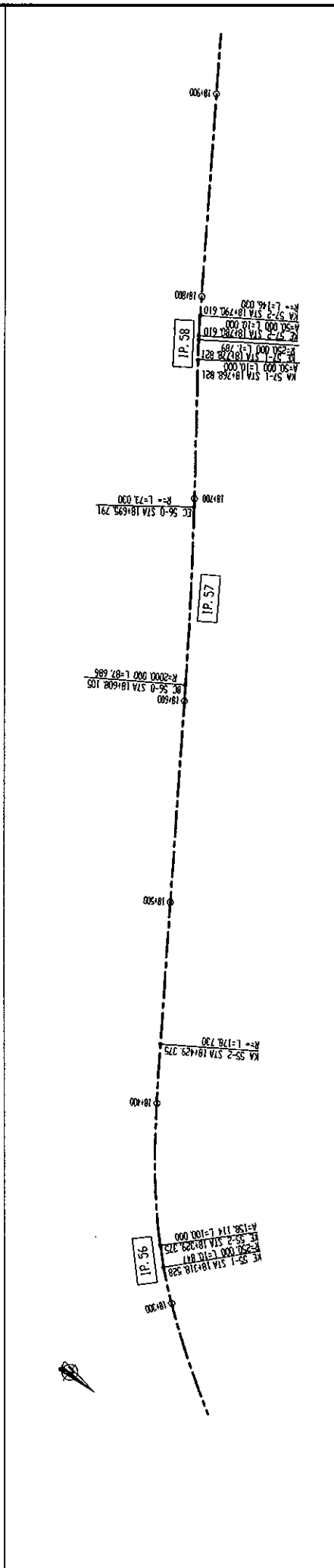
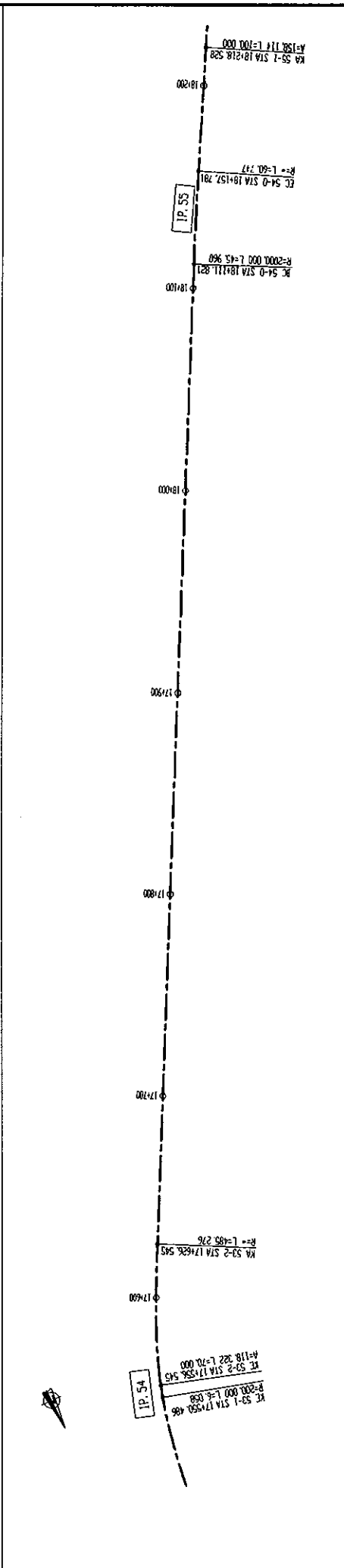
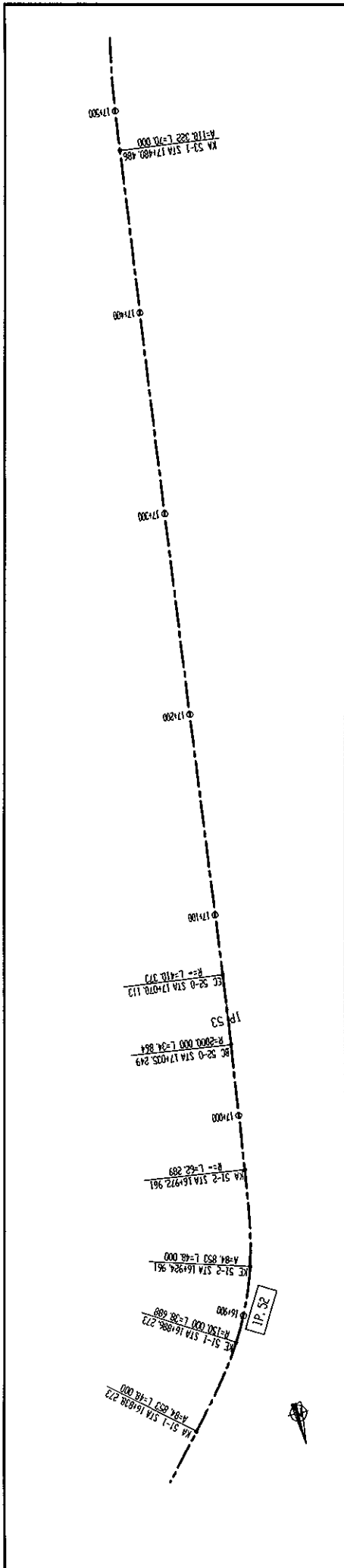
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	SCALE:	DRAWING No:	Rv.
			KEY PLAN MAIN ROUTE 6/12	1:2000	G-7	



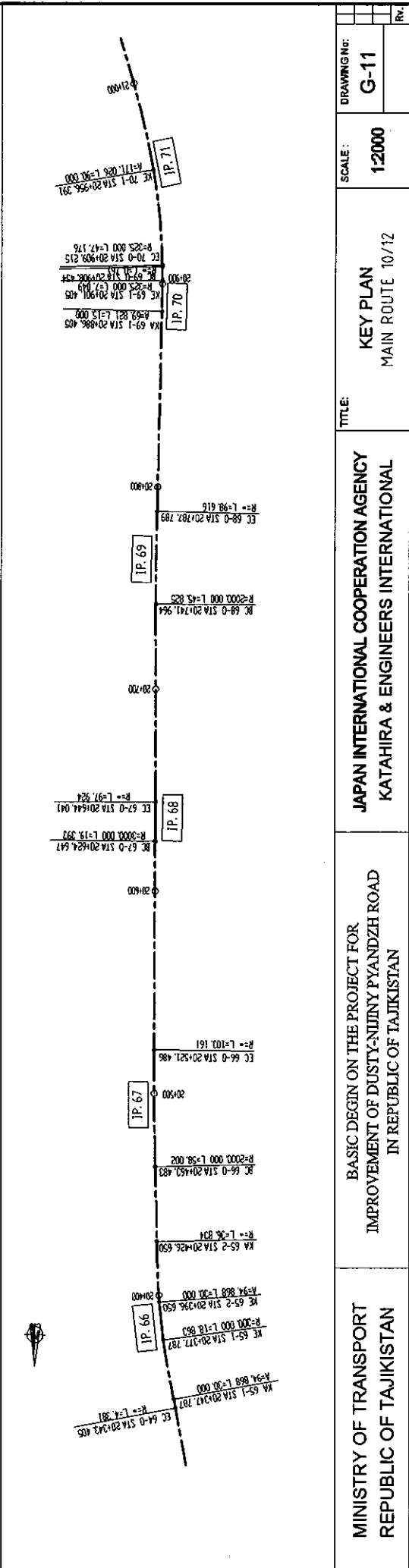
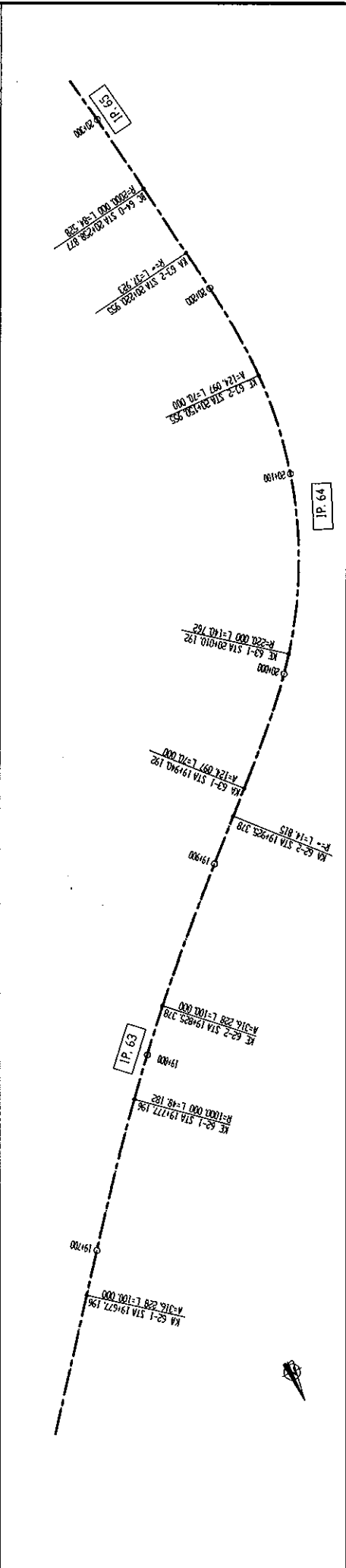
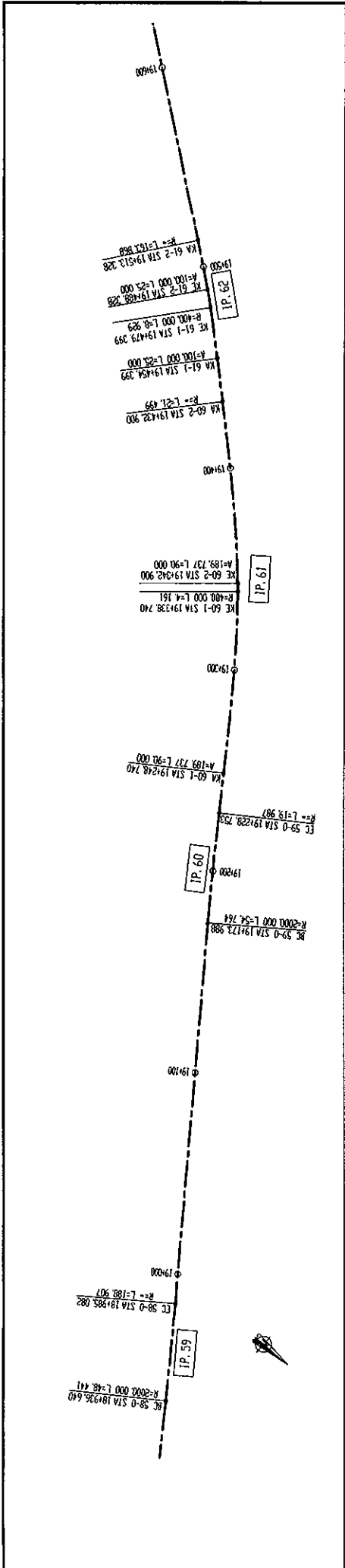
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JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	
BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY-PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	



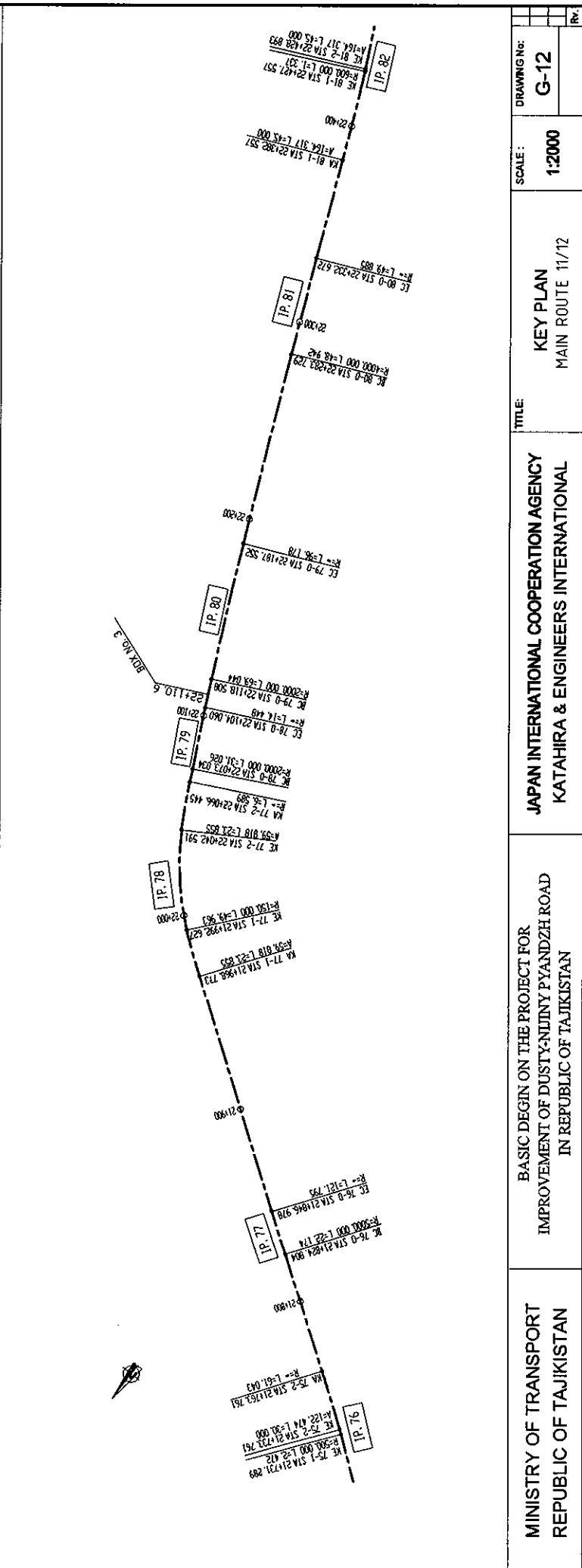
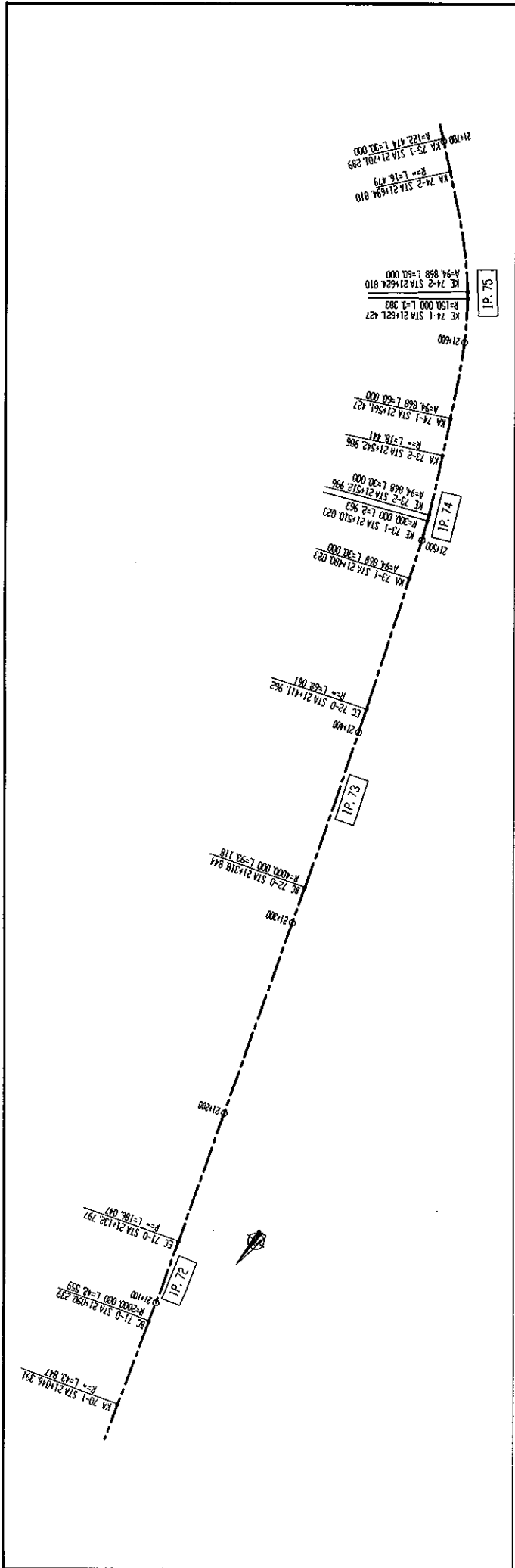
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BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINYI PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN				JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL		KEY PLAN MAIN ROUTE 8/12	
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN							



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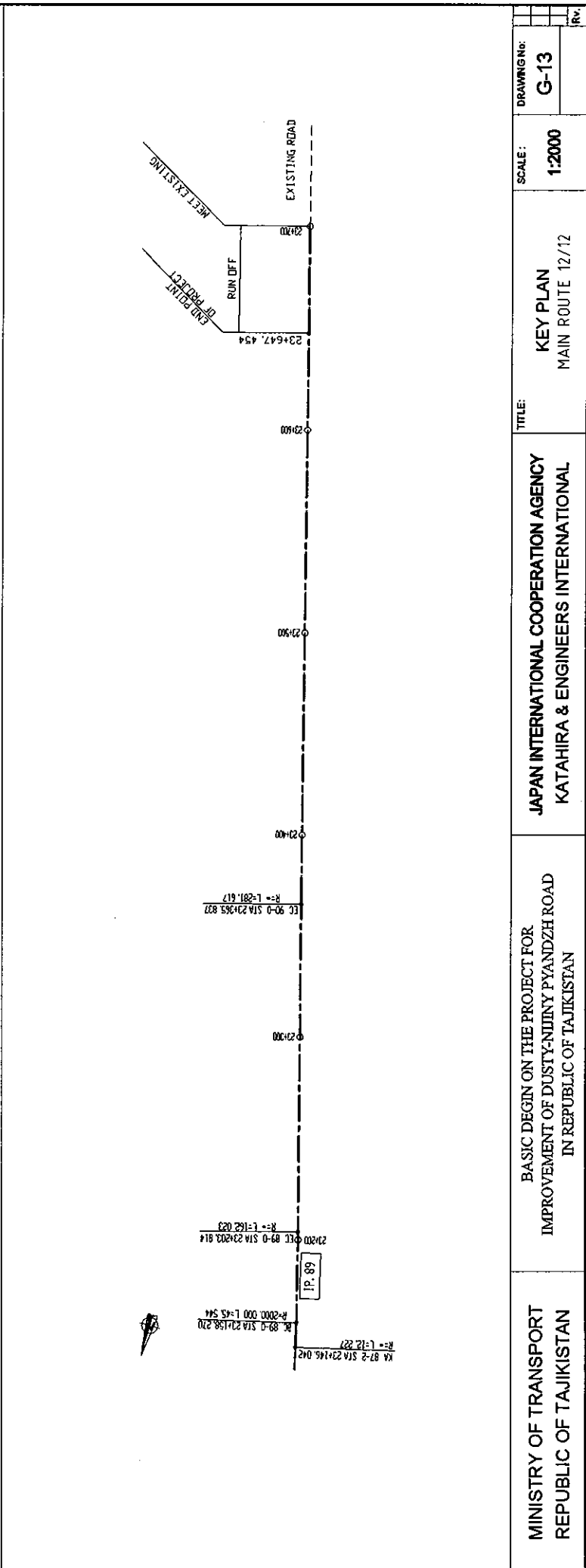
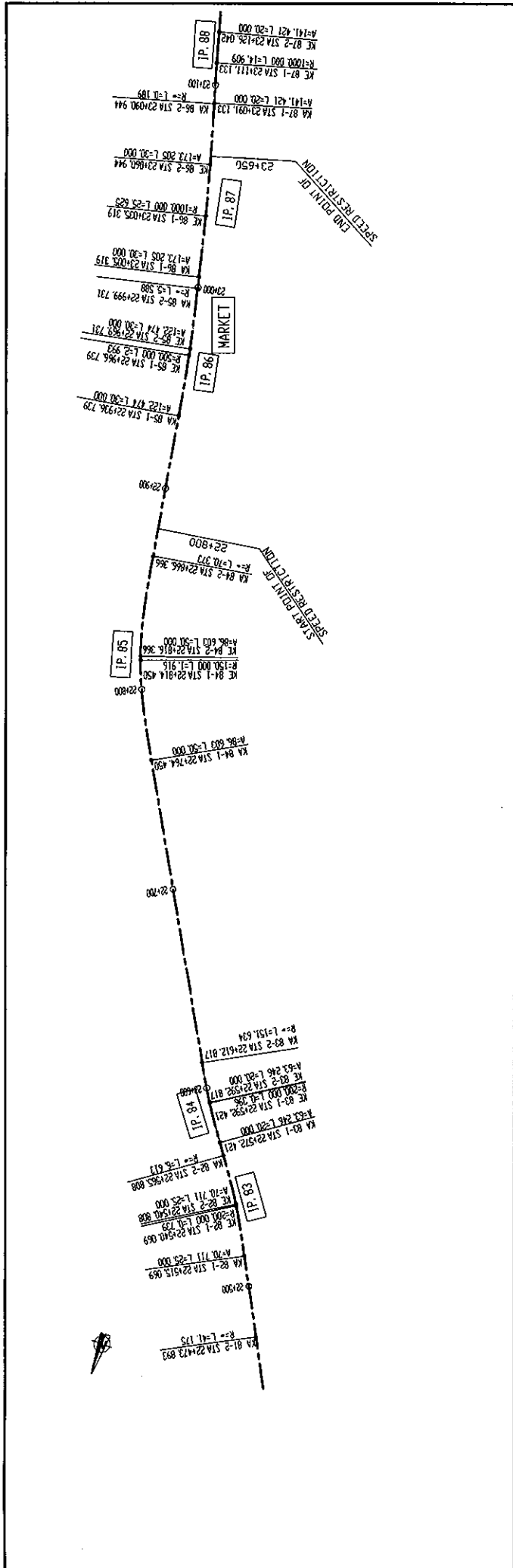


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BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NINYI PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	



DRAWING NO:	SCALE:	TITLE:	REV:
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL			BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN			



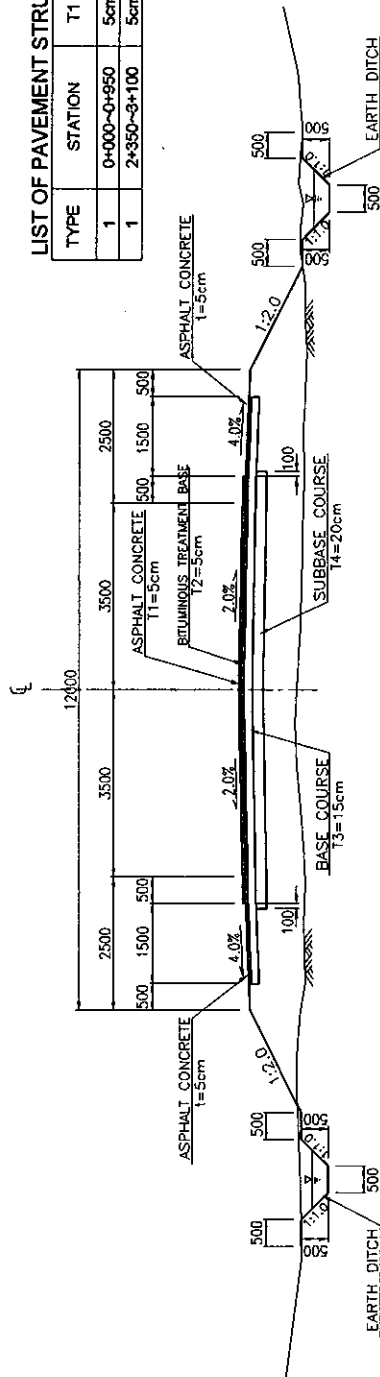


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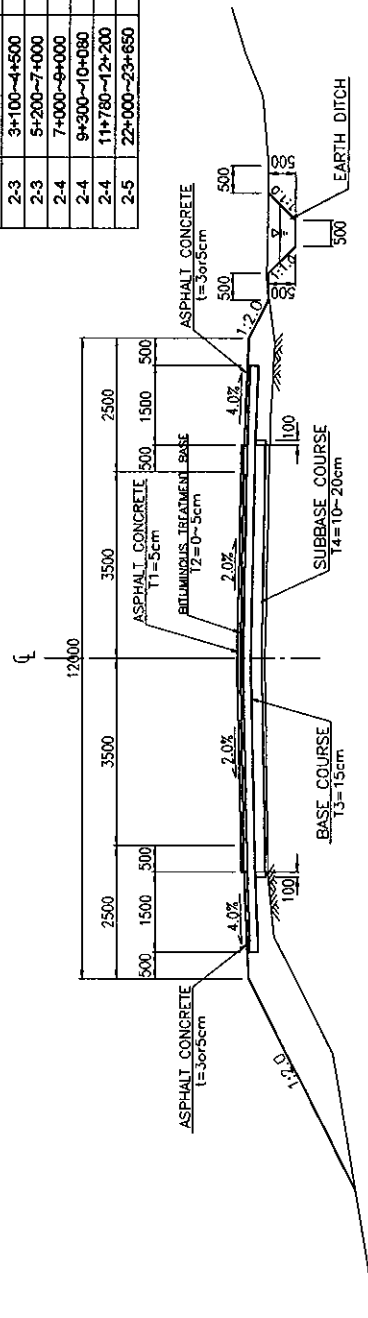
LIST OF PAVEMENT STRUCTURE COMPOSITION

TYPE	STATION	T1	T2	T3	T4	REMARKS
1	0+000-0+950	5cm	5cm	15cm	20cm	NEW SECTION
1	2+350-9+100	5cm	5cm	15cm	20cm	BYPASS



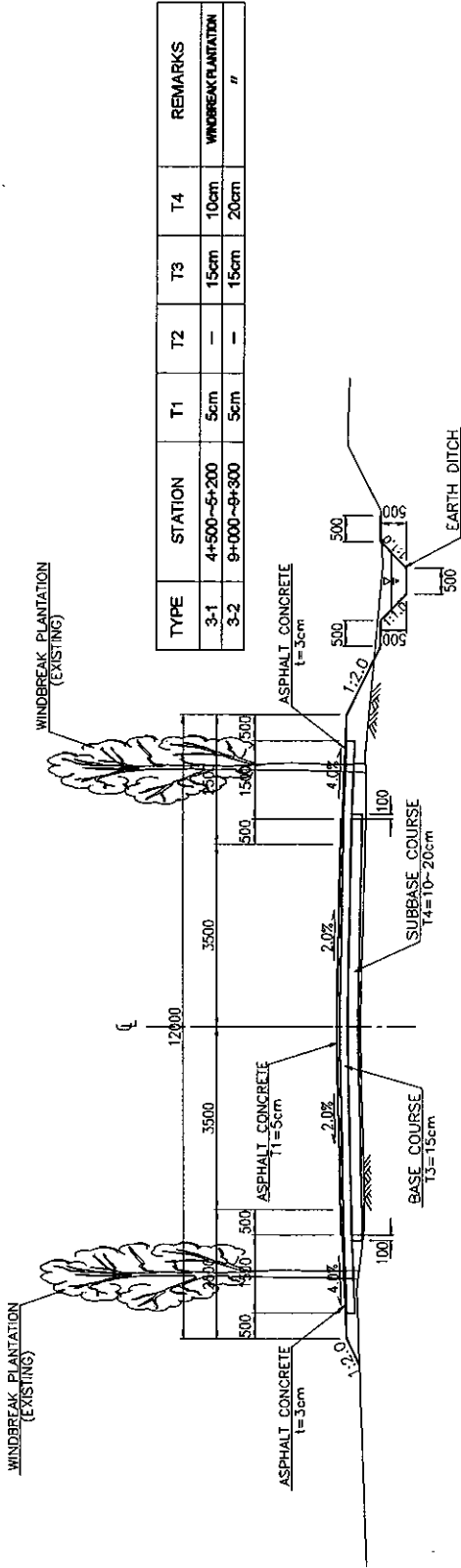
MAIN ROUTE TYPE-1

TYPE	STATION	T1	T2	T3	T4	REMARKS
2-1	0+950-2+200	5cm	3cm	15cm	15cm	STANDARD SECTION
2-2	2+200-2+350	5cm	5cm	15cm	20cm	"
2-3	3+100-4+500	5cm	-	15cm	10cm	"
2-3	5+200-7+000	5cm	-	15cm	10cm	"
2-4	7+000-9+000	5cm	-	15cm	20cm	"
2-4	9+300-10+080	5cm	-	15cm	20cm	"
2-4	11+780-12+200	5cm	-	15cm	20cm	"
2-5	22+000-23+650	5cm	3cm	15cm	20cm	"



MAIN ROUTE TYPE-2

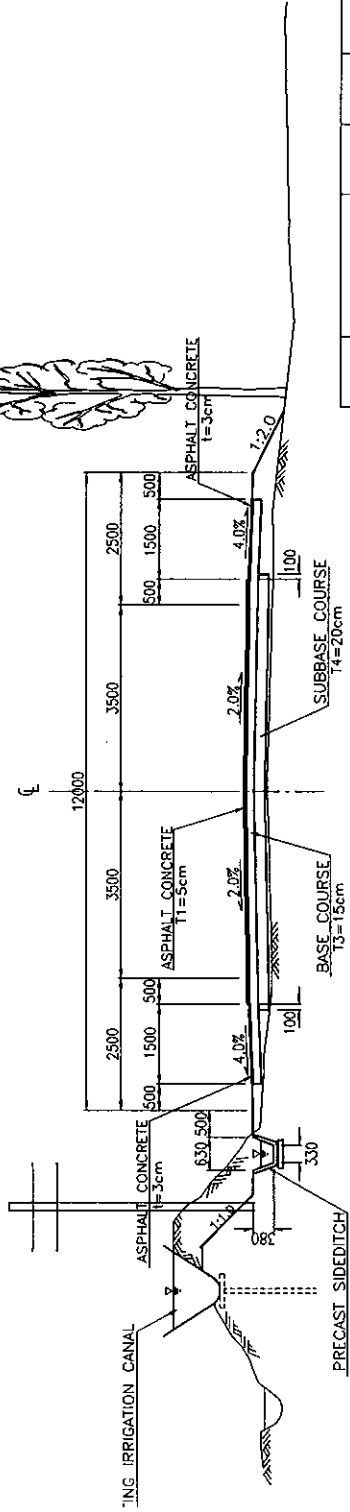
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TYPE	STATION	T1	T2	T3	T4	REMARKS
3-1	4+500-6+200	5cm	-	15cm	10cm	WINDBREAK PLANTATION
3-2	9+000-9+300	5cm	-	15cm	20cm	"

### MAIN ROUTE TYPE-3

Note : When the distance between the Existing Plantation at the both ends of the Road is narrow, Plantation of one side shall be subjected to Relocation under the expense of the Government of Tajikistan.



TYPE	STATION	T1	T2	T3	T4	REMARKS
4	10+080-11+780	5cm	-	15cm	20cm	EXISTING IRRIGATION CANAL

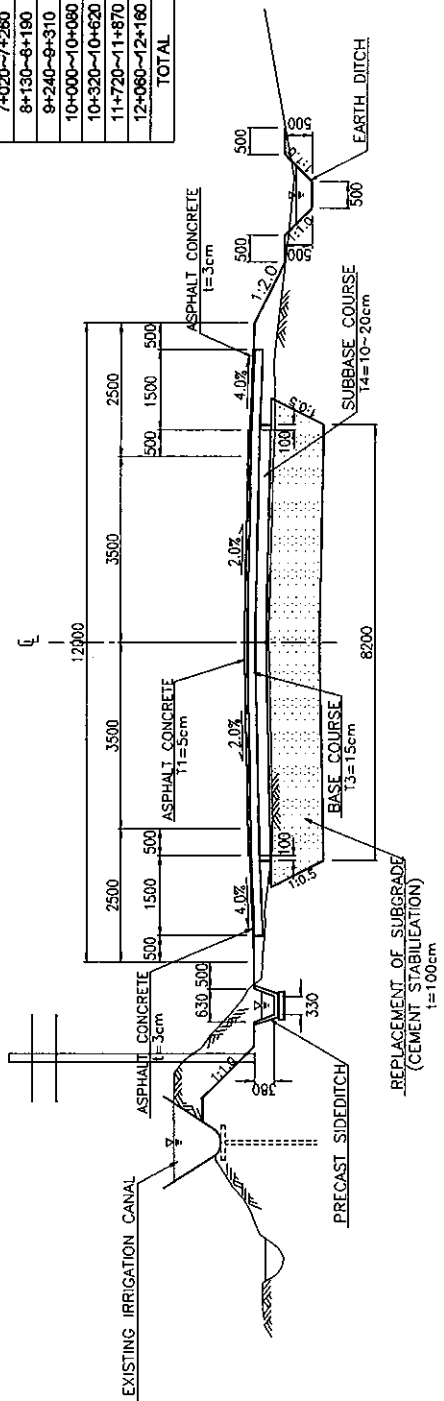
### MAIN ROUTE TYPE-4

Note : Existing Plantation affecting the renovation of the Road shall be subjected to either Relocation or Removal under the Expense of the Government of Tajikistan

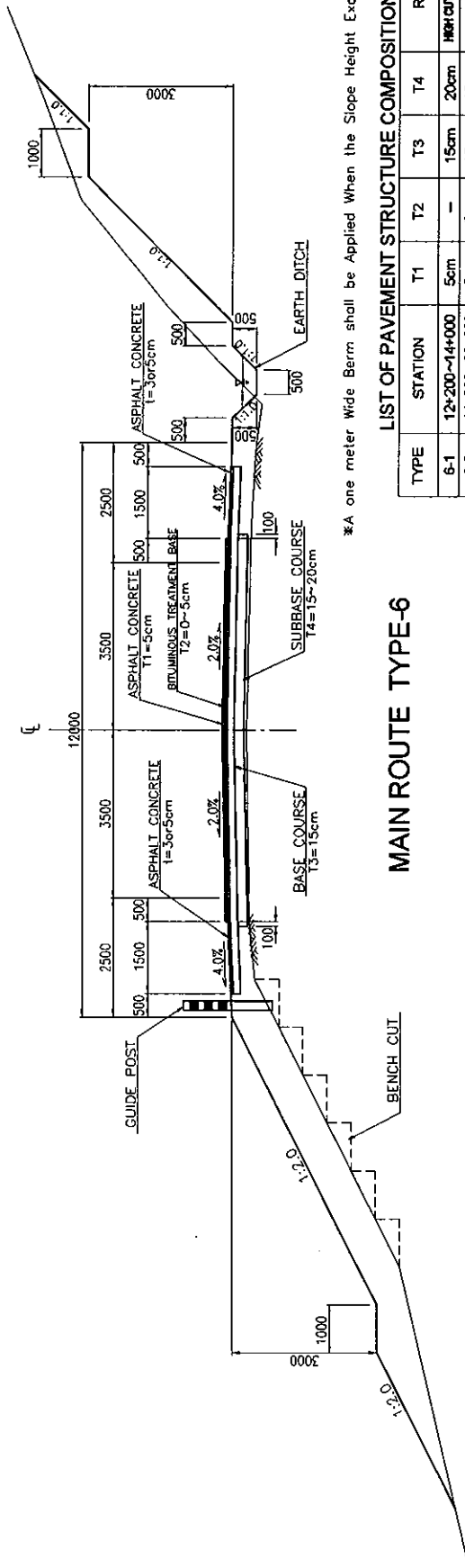
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIRINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: <b>TYPICAL CROSS SECTION</b> MAIN ROUTE 2/4
		SCALE: <b>1:50</b>	DRAWING NO: <b>G-16</b>
		Rv:	

### LIST OF WATER-SUBMERGED SECTION

STATION	LENGTH(m)	REMARKS
6+180-6+280	100.00	
7+020-7+280	240.00	
8+130-8+180	60.00	
9+240-9+310	70.00	
10+000-10+080	80.00	
10+320-10+620	300.00	
11+720-11+870	150.00	
12+060-12+180	100.00	
TOTAL	1,100.00	



**MAIN ROUTE TYPE-5**  
(WATER-SUBMERGED SECTION)



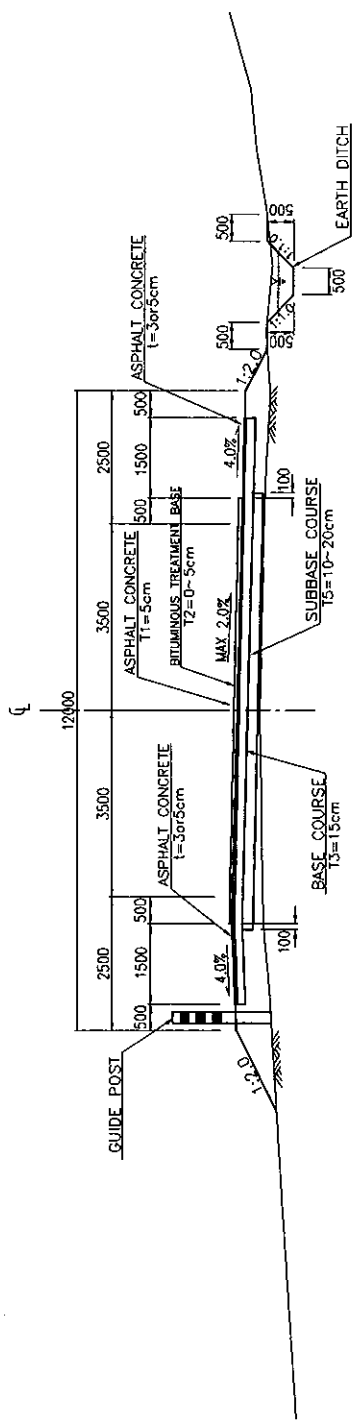
**MAIN ROUTE TYPE-6**

\*A one meter wide Berm shall be Applied When the Slope Height Exceeds 5.0 meters.

### LIST OF PAVEMENT STRUCTURE COMPOSITION

TYPE	STATION	T1	T2	T3	T4	REMARKS
6-1	12+200-14+000	5cm	5cm	15cm	20cm	HIGH CUT AND FILL SECTION
6-2	14+000-22+000	5cm	5cm	15cm	15cm	" "

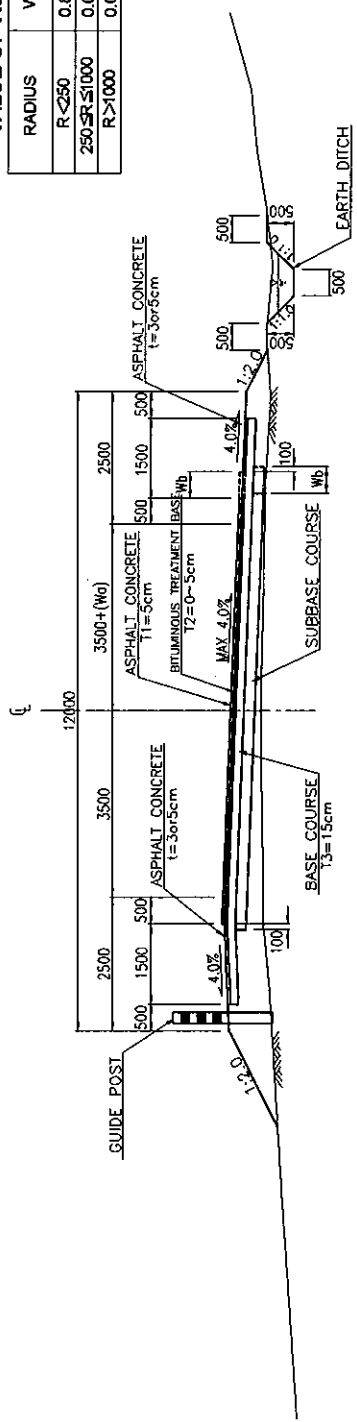
<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL
TITLE: <b>TYPICAL CROSS SECTION</b> MAIN ROUTE 3/4		
SCALE: <b>1:50</b>		
DRAWING NO: <b>G-17</b>		



### MAIN ROUTE TYPE-7

(SUPERELEVATION SECTION WITHOUT WIDENING 1000 < R < 1300)

VALUE OF Wa & Wb		
RADIUS	Wa	Wb
R < 250	0.80m	0.00m
250 ≤ R ≤ 1000	0.00m	0.50m
R > 1000	0.00m	0.00m



### MAIN ROUTE TYPE-7'

(SUPERELEVATION SECTION WITH WIDENING 1500 ≤ R ≤ 1000)

\*At Curve Sections where R < 250m, The Proposed Center Line shall be shifted Half the Widening Amount (Wa/2) toward the Inner side of the Curve

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

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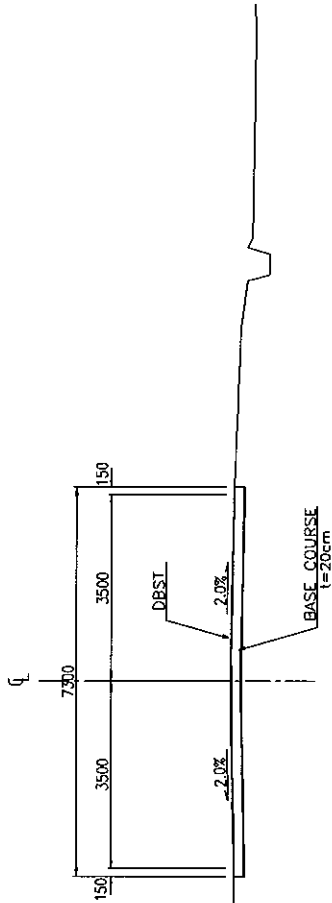
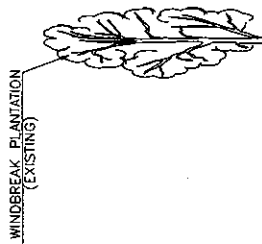
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:  
**TYPICAL CROSS SECTION**  
MAIN ROUTE 4/4

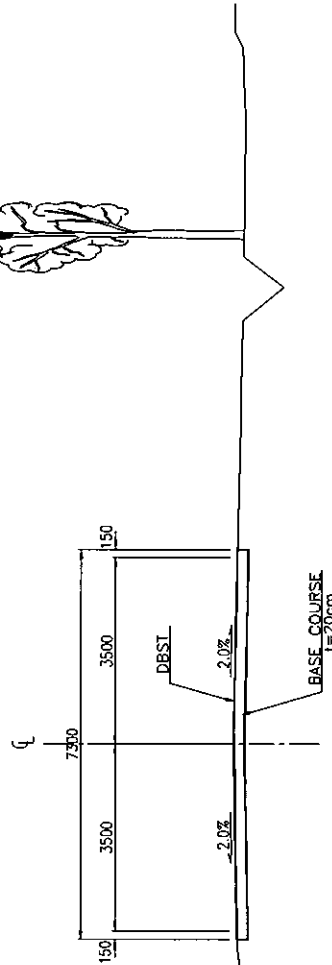
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**1:50**

DRAWING NO:  
**G-18**

Rv.



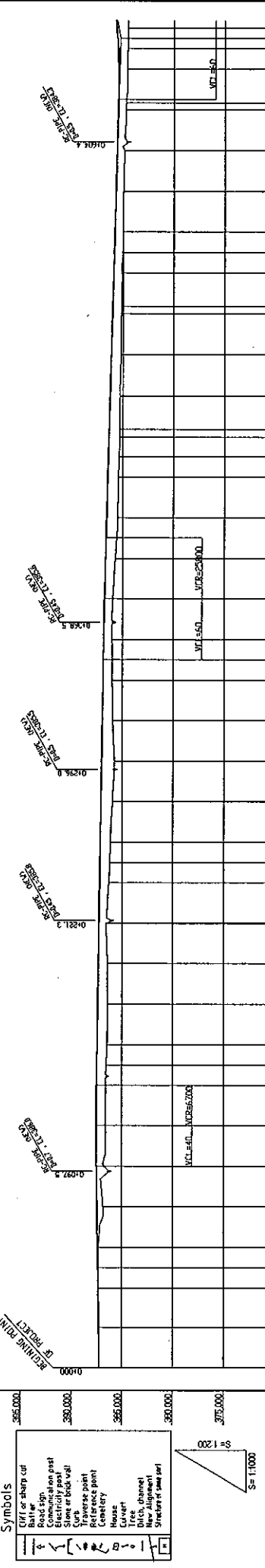
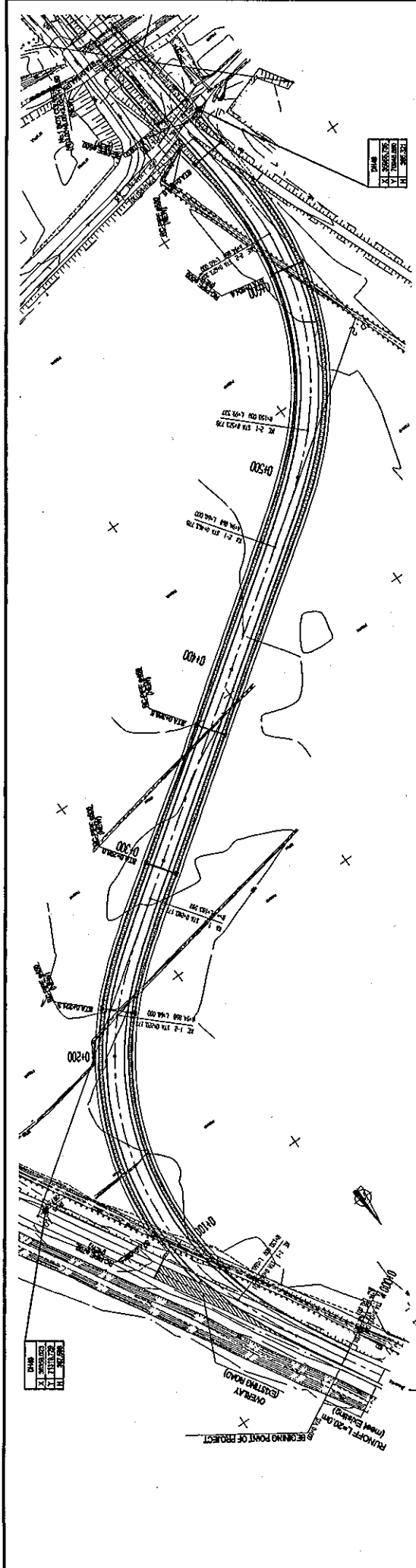
TYPE-8  
CITY ROAD (1)



TYPE-9  
CITY ROAD (2)

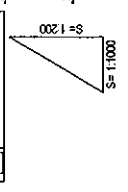
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	SCALE:	DRAWING NO:
			TYPICAL CROSS SECTION CITY ROAD	1:50	G-19
			Rv:		





VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
385.000	385.000	385.000	385.000	R=1500			TYPE-1
384.500	384.500	384.500	384.500	R=1500			
384.000	384.000	384.000	384.000	R=1500			
383.500	383.500	383.500	383.500	R=1500			
383.000	383.000	383.000	383.000	R=1500			
382.500	382.500	382.500	382.500	R=1500			
382.000	382.000	382.000	382.000	R=1500			
381.500	381.500	381.500	381.500	R=1500			
381.000	381.000	381.000	381.000	R=1500			
380.500	380.500	380.500	380.500	R=1500			
380.000	380.000	380.000	380.000	R=1500			
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378.500	378.500	378.500	378.500	R=1500			
378.000	378.000	378.000	378.000	R=1500			
377.500	377.500	377.500	377.500	R=1500			
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376.500	376.500	376.500	376.500	R=1500			
376.000	376.000	376.000	376.000	R=1500			
375.500	375.500	375.500	375.500	R=1500			
375.000	375.000	375.000	375.000	R=1500			
374.500	374.500	374.500	374.500	R=1500			
374.000	374.000	374.000	374.000	R=1500			
373.500	373.500	373.500	373.500	R=1500			
373.000	373.000	373.000	373.000	R=1500			
372.500	372.500	372.500	372.500	R=1500			
372.000	372.000	372.000	372.000	R=1500			
371.500	371.500	371.500	371.500	R=1500			
371.000	371.000	371.000	371.000	R=1500			
370.500	370.500	370.500	370.500	R=1500			
370.000	370.000	370.000	370.000	R=1500			

- Symbols**
- Cliff or steep cut
  - Barrier
  - Road sign
  - Electricity post
  - Electricity pole
  - Stone or brick wall
  - Top of embankment
  - Reference point
  - Canterbury
  - House
  - Corner
  - Ditch, channel
  - New Alignment
  - Structure of same level



**MINISTRY OF TRANSPORT**  
**REPUBLIC OF TAJIKISTAN**

**BASIC DESIGN ON THE PROJECT FOR**  
**IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD**  
**IN REPUBLIC OF TAJIKISTAN**

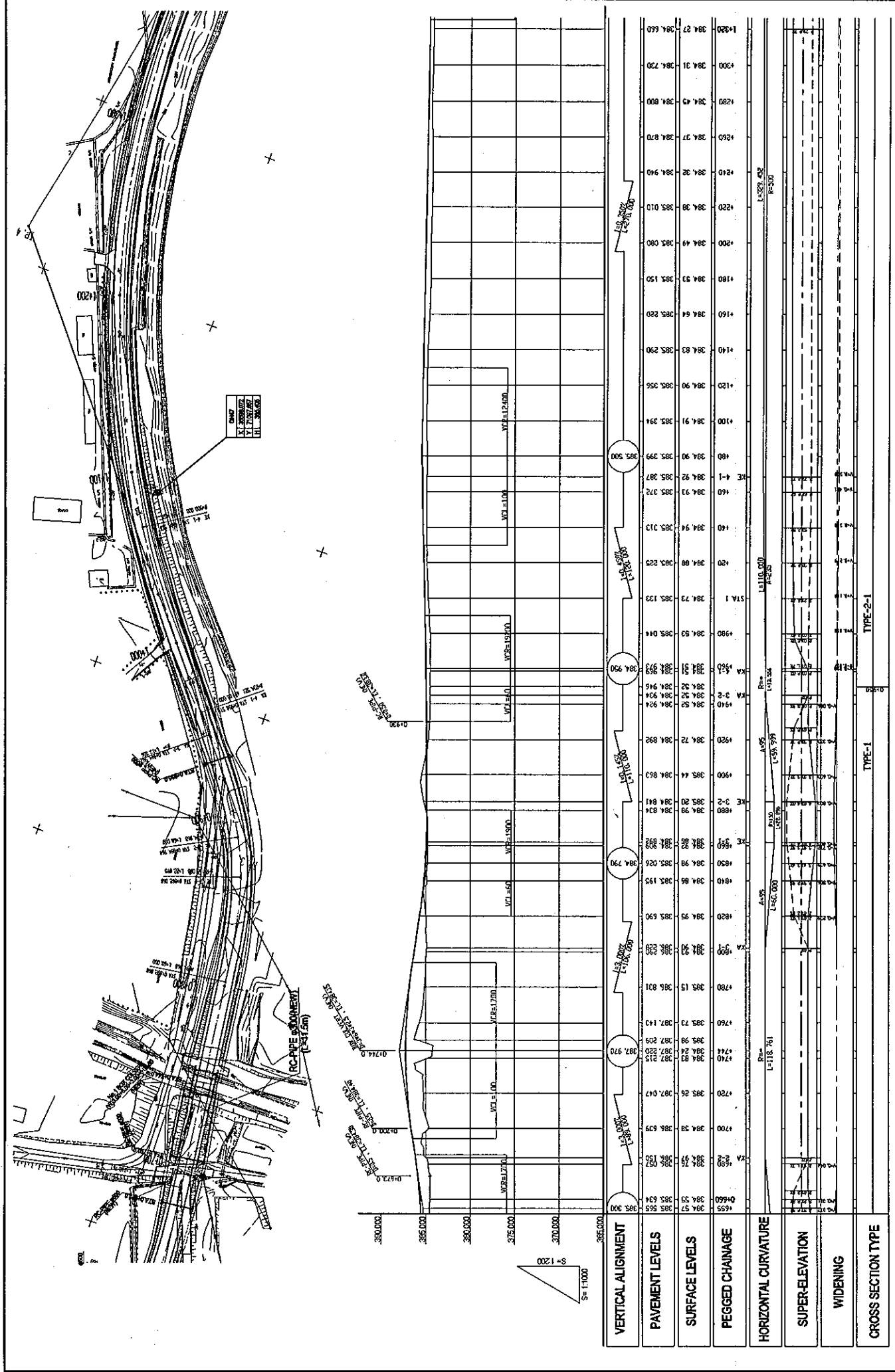
**JAPAN INTERNATIONAL COOPERATION AGENCY**  
**KATAHIRA & ENGINEERS INTERNATIONAL**

**TITLE: PLAN AND PROFILE OF MAIN ROUTE**  
(STA. 0+000 - STA. 0+600)

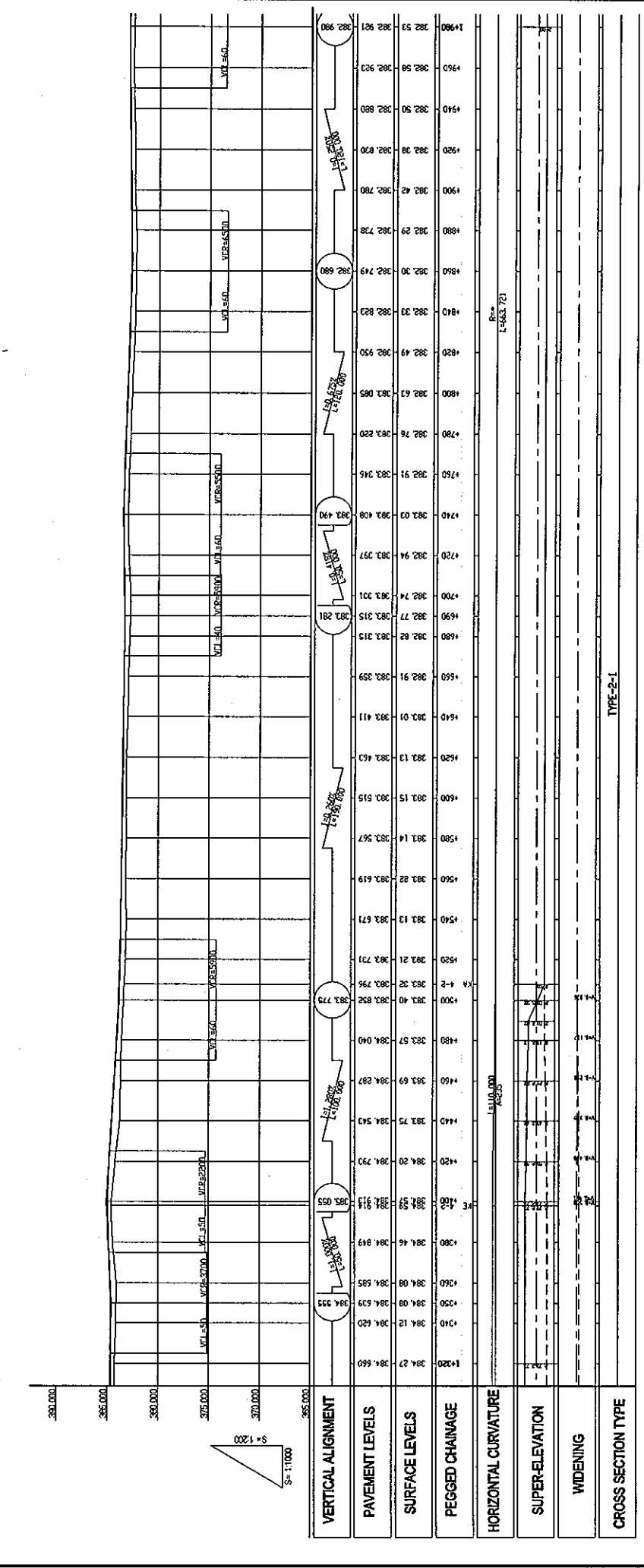
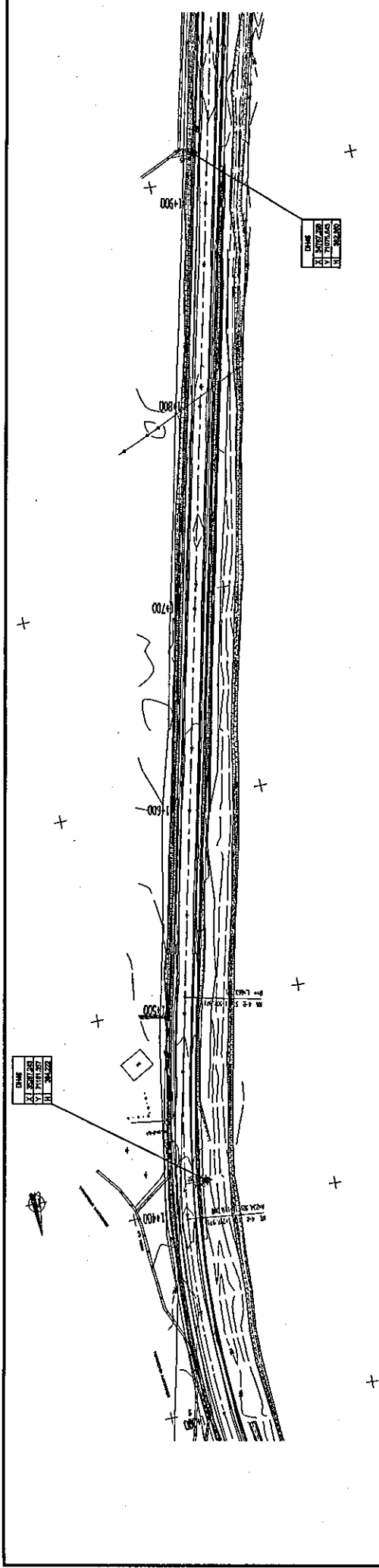
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**DRAWING NO: PL-01**

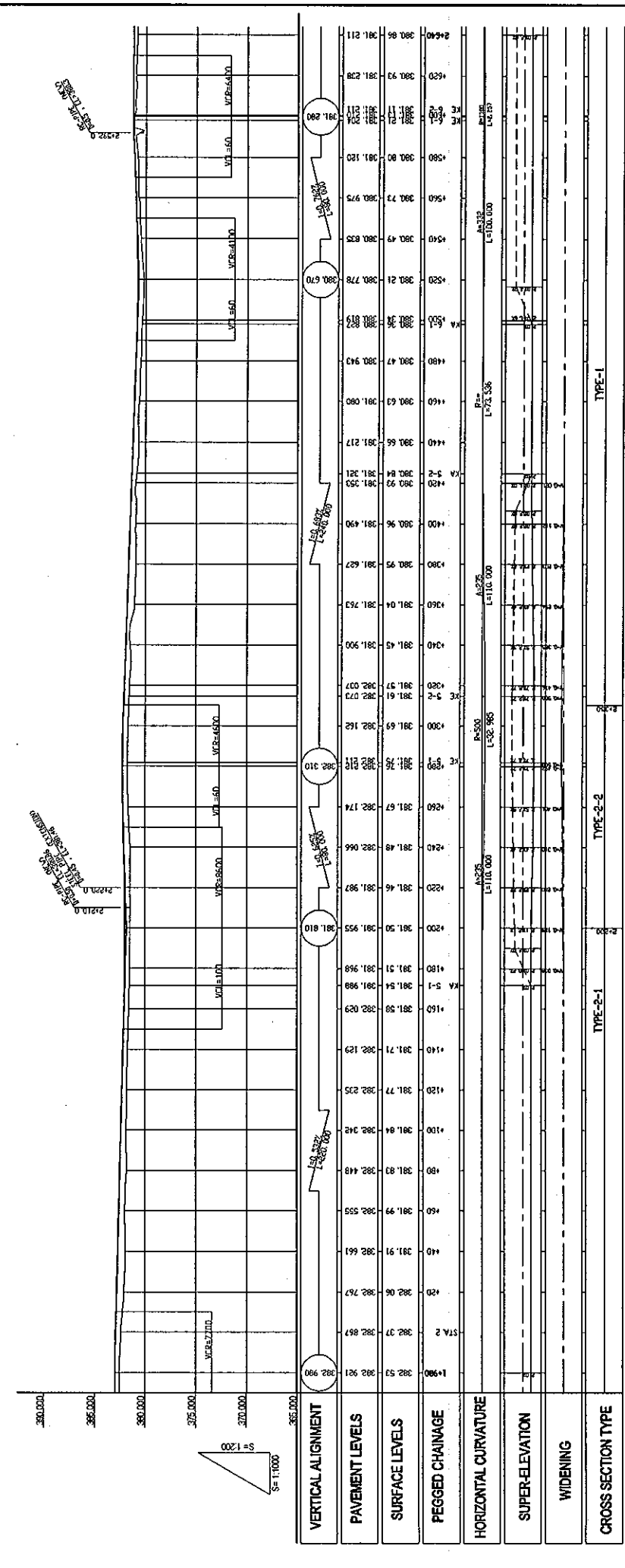
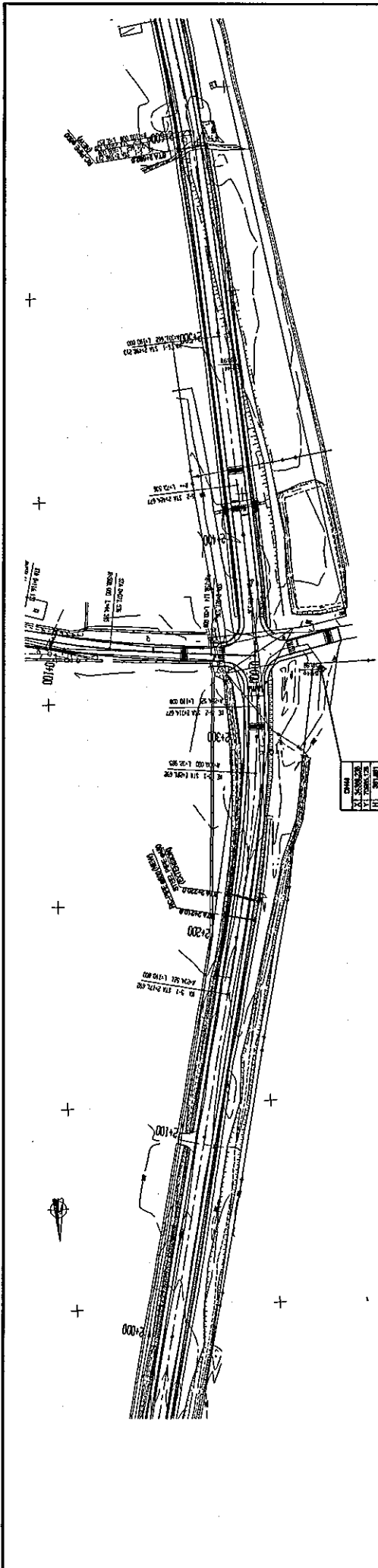
REV.



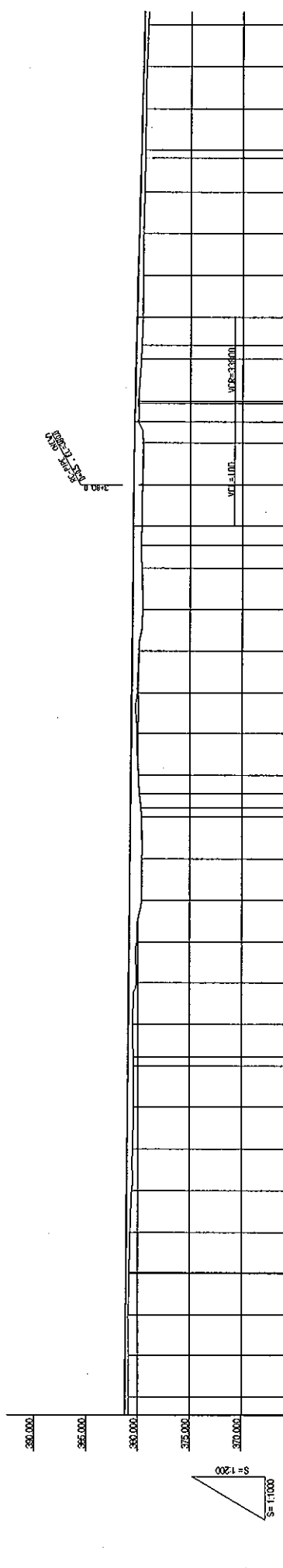
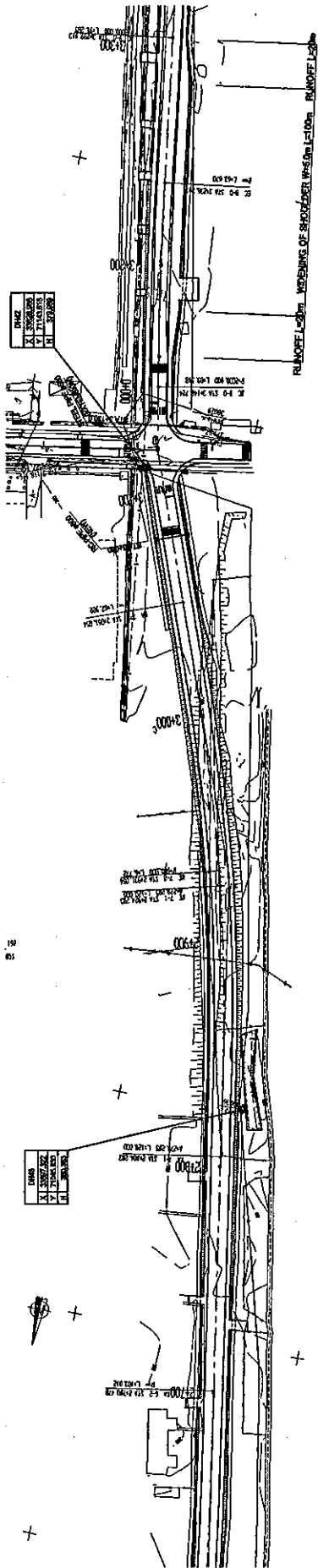
MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NINYI PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: PLAN AND PROFILE OF MAIN ROUTE (STA.0+600 - STA.1320)	
			SCALE: H=1:1000 V=1:200	DRAWING NO: PL-02



MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTYNUINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	PLAN AND PROFILE OF MAIN ROUTE (STA. 1+320 - STA. 1+960)
			SCALE:	H=1:1000 V=1:200
			DRAWING NO:	PL-03
			DATE:	2017.05
			PROJECT:	PJ170105
			DRAWING:	PL-03
			REV:	01

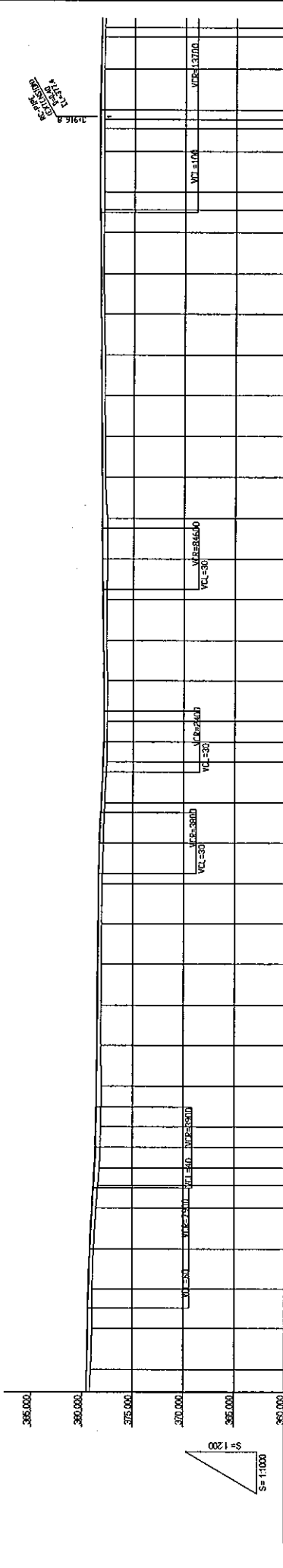
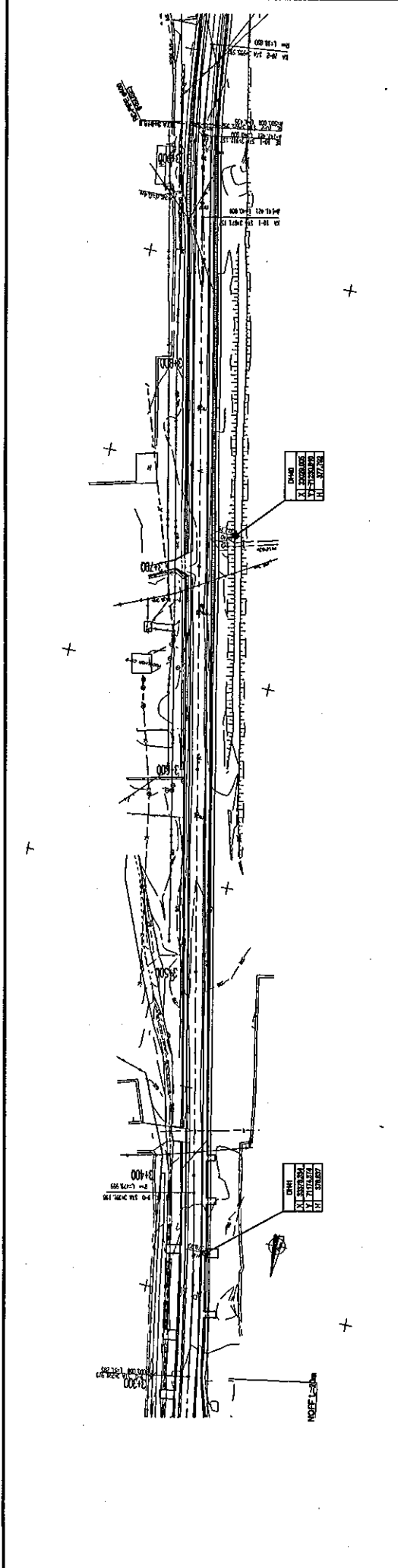


<b>MINISTRY OF TRANSPORT</b> <b>REPUBLIC OF TAJIKISTAN</b>	<b>BASIC DESIGN ON THE PROJECT FOR</b> <b>IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD</b> <b>IN REPUBLIC OF TAJIKISTAN</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> <b>KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>TITLE:</b> PLAN AND PROFILE <b>OF MAIN ROUTE</b> (STA.1+980 - STA.2+660)	<b>SCALE:</b> <b>H=1:1000</b> <b>V=1:200</b>	<b>DRAWING NO:</b> <b>PL-04</b>
			<b>REV.</b>		



VERTICAL ALIGNMENT	STATION	ELEVATION	VERTICAL CURVE	TYPE
PAVEMENT LEVELS	390.000	280.000	L=100.000 H=3.38000	TYPE-2-3
	391.000	281.000		
	392.000	282.000		
	393.000	283.000		
	394.000	284.000		
	395.000	285.000		
	396.000	286.000		
	397.000	287.000		
	398.000	288.000		
	399.000	289.000		
SURFACE LEVELS	390.000	280.000	L=100.000 H=3.38000	TYPE-2-3
	391.000	281.000		
	392.000	282.000		
	393.000	283.000		
	394.000	284.000		
	395.000	285.000		
	396.000	286.000		
	397.000	287.000		
	398.000	288.000		
	399.000	289.000		
PEGGED CHAINAGE	390.000	280.000	L=100.000 H=3.38000	TYPE-2-3
	391.000	281.000		
	392.000	282.000		
	393.000	283.000		
	394.000	284.000		
	395.000	285.000		
	396.000	286.000		
	397.000	287.000		
	398.000	288.000		
	399.000	289.000		
HORIZONTAL CURVATURE	390.000	280.000	L=100.000 H=3.38000	TYPE-2-3
	391.000	281.000		
	392.000	282.000		
	393.000	283.000		
	394.000	284.000		
	395.000	285.000		
	396.000	286.000		
	397.000	287.000		
	398.000	288.000		
	399.000	289.000		
SUPER-ELEVATION	390.000	280.000	L=100.000 H=3.38000	TYPE-2-3
	391.000	281.000		
	392.000	282.000		
	393.000	283.000		
	394.000	284.000		
	395.000	285.000		
	396.000	286.000		
	397.000	287.000		
	398.000	288.000		
	399.000	289.000		
WIDENING	390.000	280.000	L=100.000 H=3.38000	TYPE-2-3
	391.000	281.000		
	392.000	282.000		
	393.000	283.000		
	394.000	284.000		
	395.000	285.000		
	396.000	286.000		
	397.000	287.000		
	398.000	288.000		
	399.000	289.000		
CROSS SECTION TYPE	390.000	280.000	L=100.000 H=3.38000	TYPE-2-3
	391.000	281.000		
	392.000	282.000		
	393.000	283.000		
	394.000	284.000		
	395.000	285.000		
	396.000	286.000		
	397.000	287.000		
	398.000	288.000		
	399.000	289.000		

DRAWING NO: PL-05  
 SCALE: H=1:1000 V=1:200  
 TITLE: PLAN AND PROFILE OF MAIN ROUTE OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN  
 PROJECT: BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN  
 CLIENT: JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL  
 STATIONING: STA 2+660 - STA 3+100



STATION	VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
365+00								
370+00								
375+00								
380+00								
385+00								
390+00								
395+00								
396+00								
397+00								
398+00								
399+00								
400+00								

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

PLAN AND PROFILE  
OF MAIN ROUTE  
(STA.3+300 - STA.3+950)

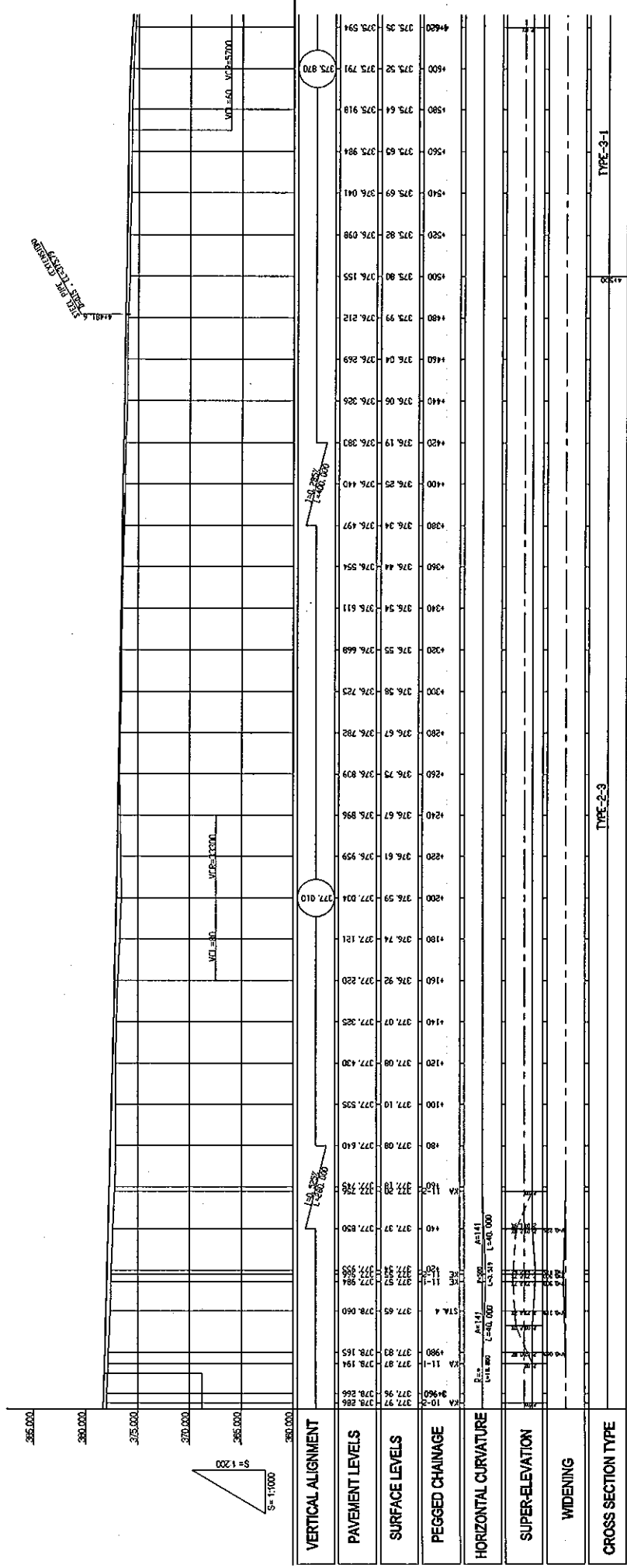
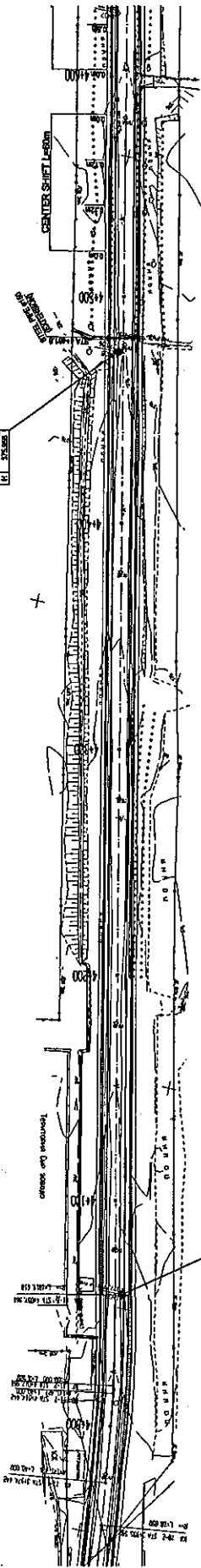
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DRAWING NO:  
PL-06

TYPE-2-3

NO.	DATE
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3	12.10.2018
4	12.10.2018

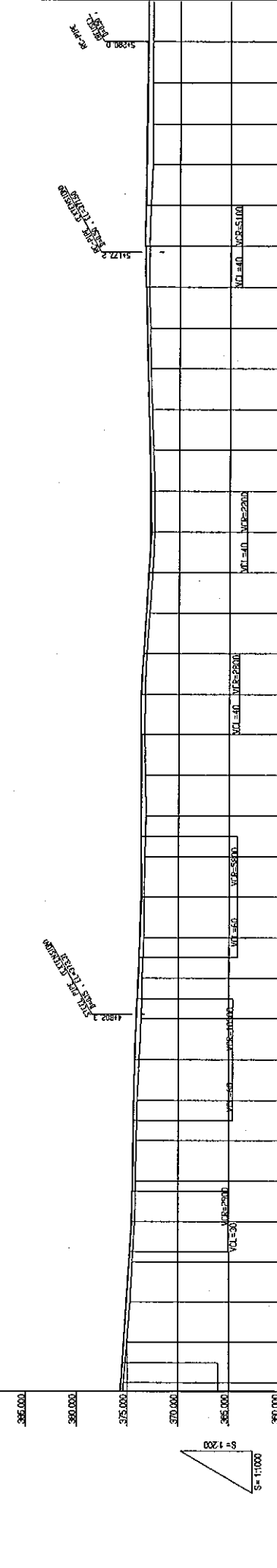
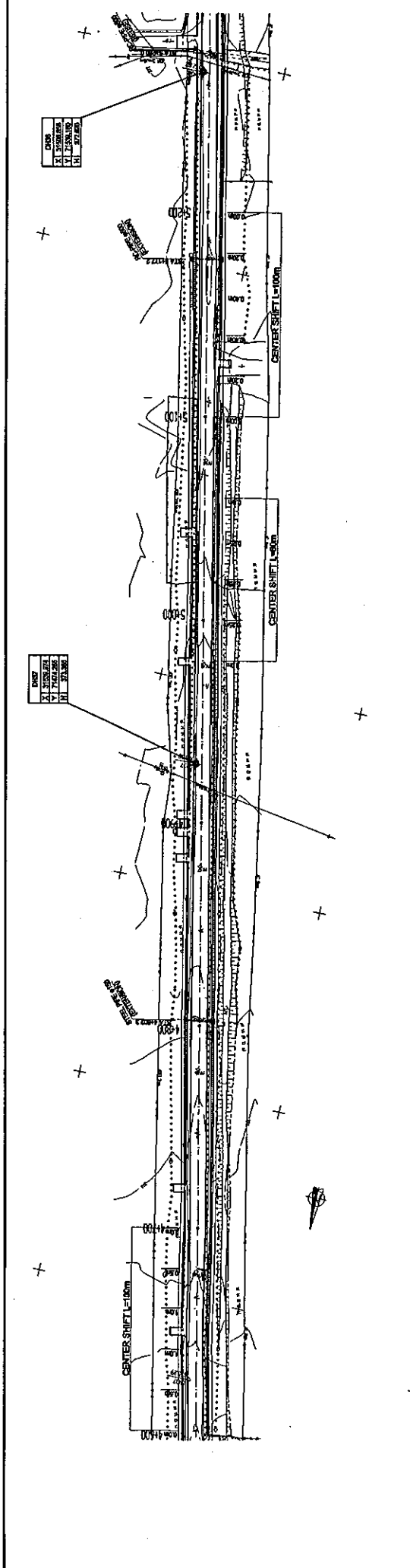
NO.	DATE
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2	12.10.2018
3	12.10.2018
4	12.10.2018



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
378.886	377.97	377.96	378.666	KA 10-2			TYPE-2-3
378.165	377.87	377.83	378.194	KA 11-1			
378.060	377.65	377.65	378.060	STA. 4			TYPE-3-1
377.556	377.37	377.550	377.650	KA 11-2			
377.256	377.28	377.256	377.256	KA 11-3			
377.121	377.07	377.121	377.121	KA 11-4			
377.024	376.92	377.024	377.024	KA 11-5			
376.959	376.81	376.959	376.959	KA 11-6			
376.966	376.75	376.966	376.966	KA 11-7			
376.668	376.67	376.668	376.668	KA 11-8			
376.511	376.54	376.511	376.511	KA 11-9			
376.440	376.44	376.440	376.440	KA 11-10			
376.497	376.34	376.497	376.497	KA 11-11			
376.440	376.25	376.440	376.440	KA 11-12			
376.383	376.19	376.383	376.383	KA 11-13			
376.326	376.13	376.326	376.326	KA 11-14			
376.269	376.04	376.269	376.269	KA 11-15			
376.212	375.99	376.212	376.212	KA 11-16			
376.155	375.90	376.155	376.155	KA 11-17			
376.098	375.82	376.098	376.098	KA 11-18			
376.041	375.69	376.041	376.041	KA 11-19			
375.984	375.69	375.984	375.984	KA 11-20			
375.918	375.64	375.918	375.918	KA 11-21			
375.871	375.52	375.871	375.871	KA 11-22			
375.824	375.32	375.824	375.824	KA 11-23			
375.791	375.22	375.791	375.791	KA 11-24			

DRAWING NO: **PL-07**  
 SCALE: **H=1:1000 V=1:200**  
 TITLE: **PLAN AND PROFILE OF MAIN ROUTE (STA.3+960 - STA.4+620)**  
**JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL**  
**BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTYANJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN**  
**MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN**





VERTICAL ALIGNMENT	
PAVEMENT LEVELS	
SURFACE LEVELS	
PEGGED CHAINAGE	
HORIZONTAL CURVATURE	
SUPER-ELEVATION	
WIDENING	
CROSS SECTION TYPE	TYPE-3-1

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

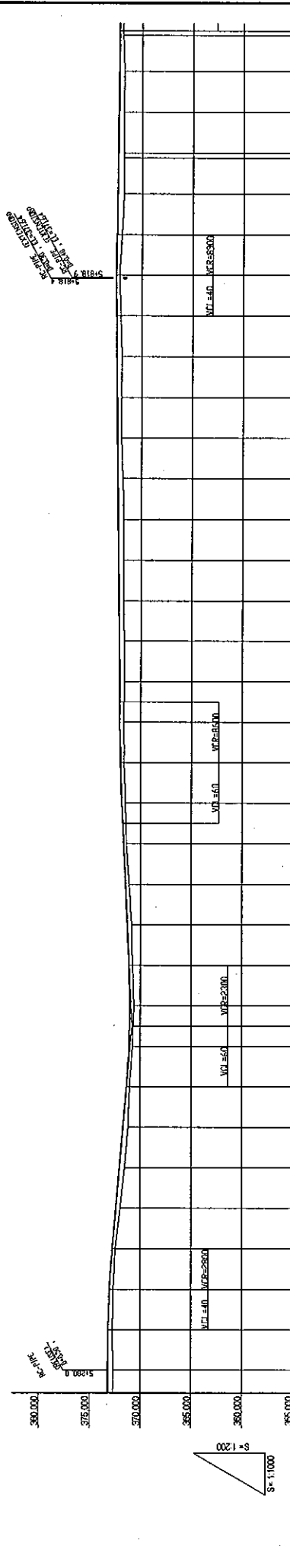
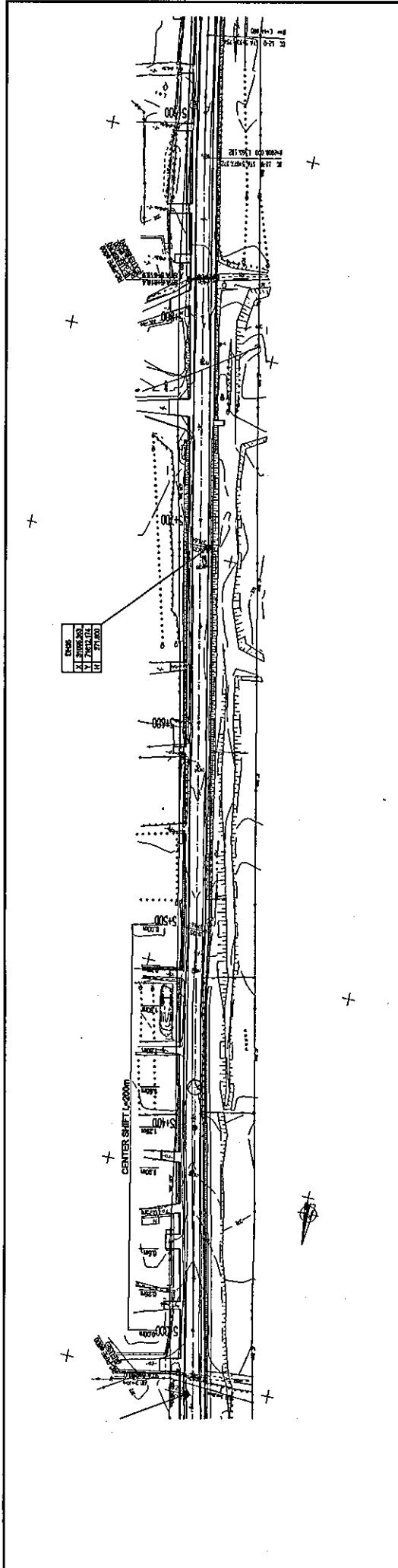
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE: PLAN AND PROFILE  
OF MAIN ROUTE  
(STA.4+670 - STA.5+680)

SCALE:  
H=1:1000  
V=1:200

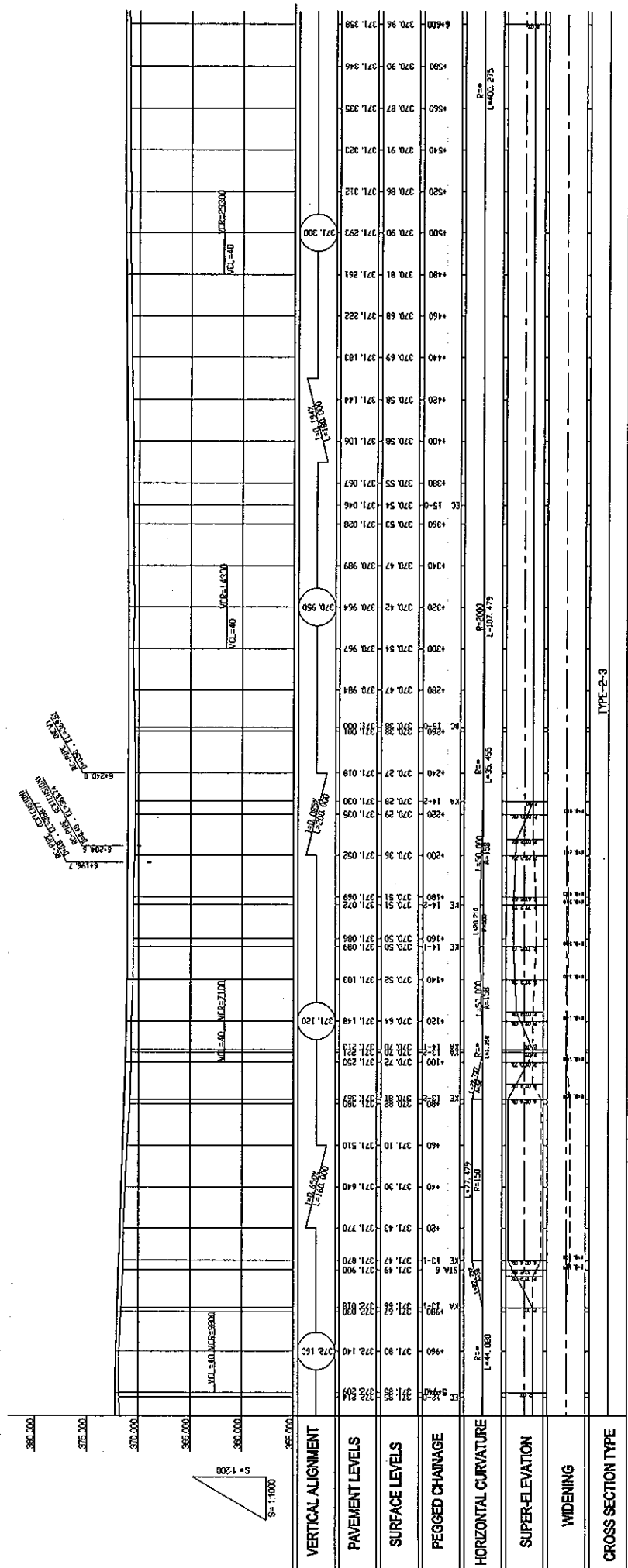
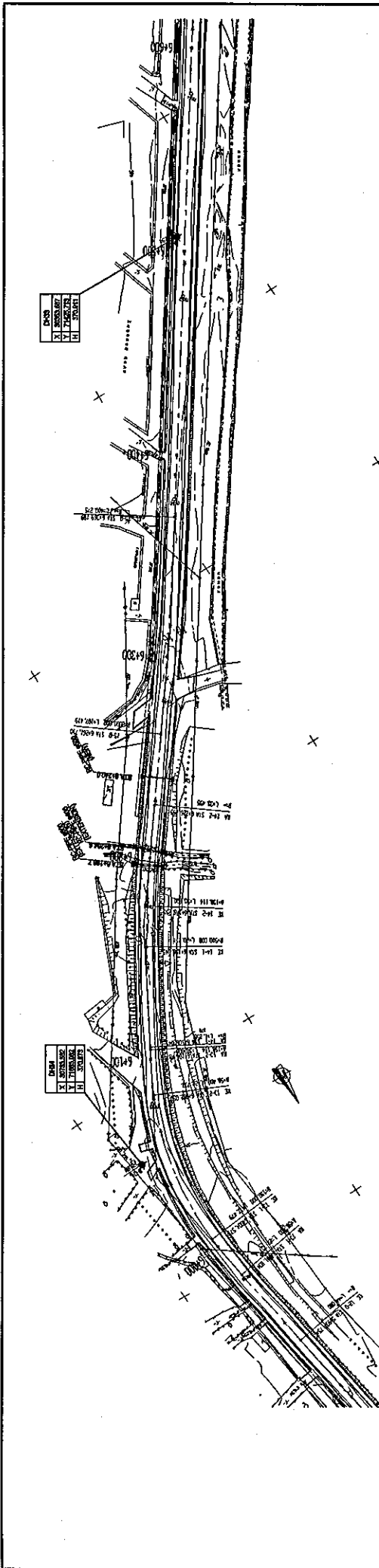
DRAWING NO:  
PL-08

R.V.

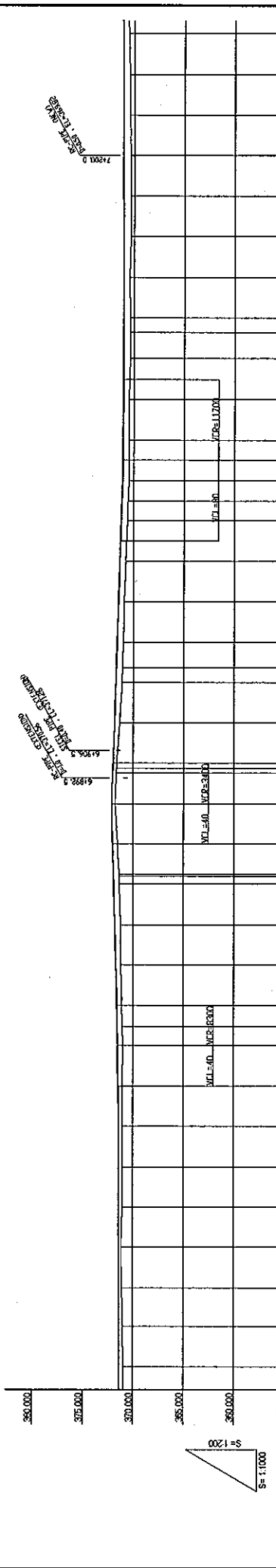
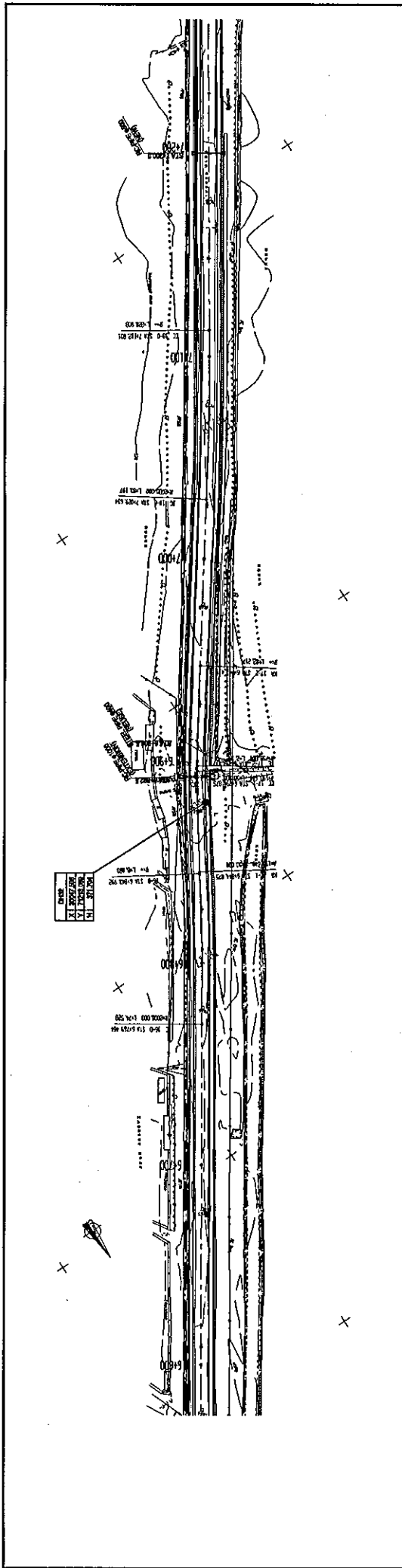


VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
372.67	372.67	372.67	372.136				TYPE 2-3
372.71	372.71	372.71	372.103				TYPE 2-3
372.52	372.52	372.52	372.977				TYPE 2-3
372.41	372.41	372.41	372.707				TYPE 2-3
371.96	371.96	371.96	372.364				TYPE 2-3
371.51	371.51	371.51	372.021				TYPE 2-3
371.20	371.20	371.20	371.678				TYPE 2-3
371.03	371.03	371.03	371.335				TYPE 2-3
370.74	370.74	370.74	371.079				TYPE 2-3
370.68	370.68	370.68	371.017				TYPE 2-3
370.63	370.63	370.63	370.958				TYPE 2-3
370.70	370.70	370.70	371.092				TYPE 2-3
370.85	370.85	370.85	371.274				TYPE 2-3
371.09	371.09	371.09	371.455				TYPE 2-3
371.37	371.37	371.37	371.637				TYPE 2-3
371.49	371.49	371.49	371.813				TYPE 2-3
371.64	371.64	371.64	371.948				TYPE 2-3
371.66	371.66	371.66	372.036				TYPE 2-3
371.60	371.60	371.60	372.083				TYPE 2-3
371.61	371.61	371.61	372.129				TYPE 2-3
371.71	371.71	371.71	372.167				TYPE 2-3
371.72	371.72	371.72	372.208				TYPE 2-3
371.72	371.72	371.72	372.250				TYPE 2-3
371.82	371.82	371.82	372.292				TYPE 2-3
371.94	371.94	371.94	372.333				TYPE 2-3
371.98	371.98	371.98	372.375				TYPE 2-3
371.94	371.94	371.94	372.417				TYPE 2-3
372.03	372.03	372.03	372.458				TYPE 2-3
372.17	372.17	372.17	372.477				TYPE 2-3
371.94	371.94	371.94	372.451				TYPE 2-3
371.77	371.77	371.77	372.403				TYPE 2-3
371.74	371.74	371.74	372.394				TYPE 2-3
371.80	371.80	371.80	372.306				TYPE 2-3
371.78	371.78	371.78	372.237				TYPE 2-3
371.85	371.85	371.85	372.209				TYPE 2-3
371.82	371.82	371.82	372.167				TYPE 2-3
371.82	371.82	371.82	372.129				TYPE 2-3
371.94	371.94	371.94	372.103				TYPE 2-3
372.52	372.52	372.52	372.977				TYPE 2-3
372.71	372.71	372.71	372.103				TYPE 2-3
372.67	372.67	372.67	372.136				TYPE 2-3

DRAWING NO: PL-09  
 SCALE: H=1:1000 V=1:200  
 TITLE: PLAN AND PROFILE OF MAIN ROUTE (STAS 7200 - STAS 9100)  
 JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN  
 MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN  
 TYPE 2-3



MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	DRAWING No:	PL-10
			SCALE:	H=1:1000 V=1:200
TITLE:			PLAN AND PROFILE OF MAIN ROUTE (STA.5+940 - STA.6+600)	Rv.



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
			370.96				TYPE-2-3
			371.00				
			371.09				TYPE-2-4
			371.13				
			371.06				TYPE-2-4
			371.04				
			371.02				TYPE-2-4
			371.01				
			371.06				TYPE-2-4
			371.08				
			371.24				TYPE-2-4
			371.38				
			371.51				TYPE-2-4
			371.74				
			371.77				TYPE-2-4
			371.99				
			370.99				TYPE-2-4
			370.87				
			370.74				TYPE-2-4
			370.55				
			370.49				TYPE-2-4
			370.47				
			370.45				TYPE-2-4
			370.45				
			370.45				TYPE-2-4
			370.38				
			370.38				TYPE-2-4
			370.34				
			370.32				TYPE-2-4
			370.28				
			370.28				TYPE-2-4
			370.28				
			370.43				TYPE-2-4
			370.54				

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

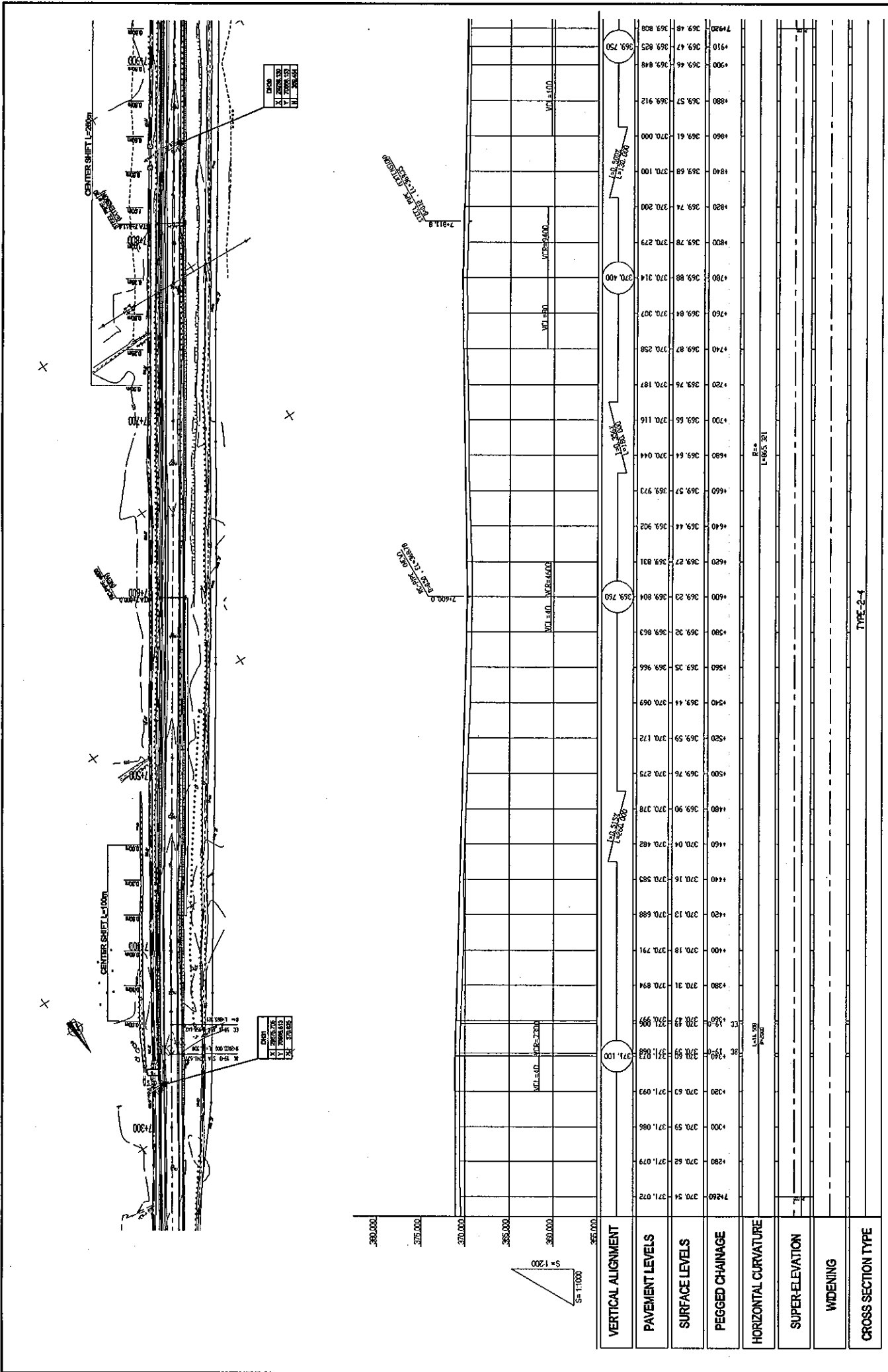
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE: PLAN AND PROFILE  
OF MAIN ROUTE  
(STA.6+600 - STA.7+600)

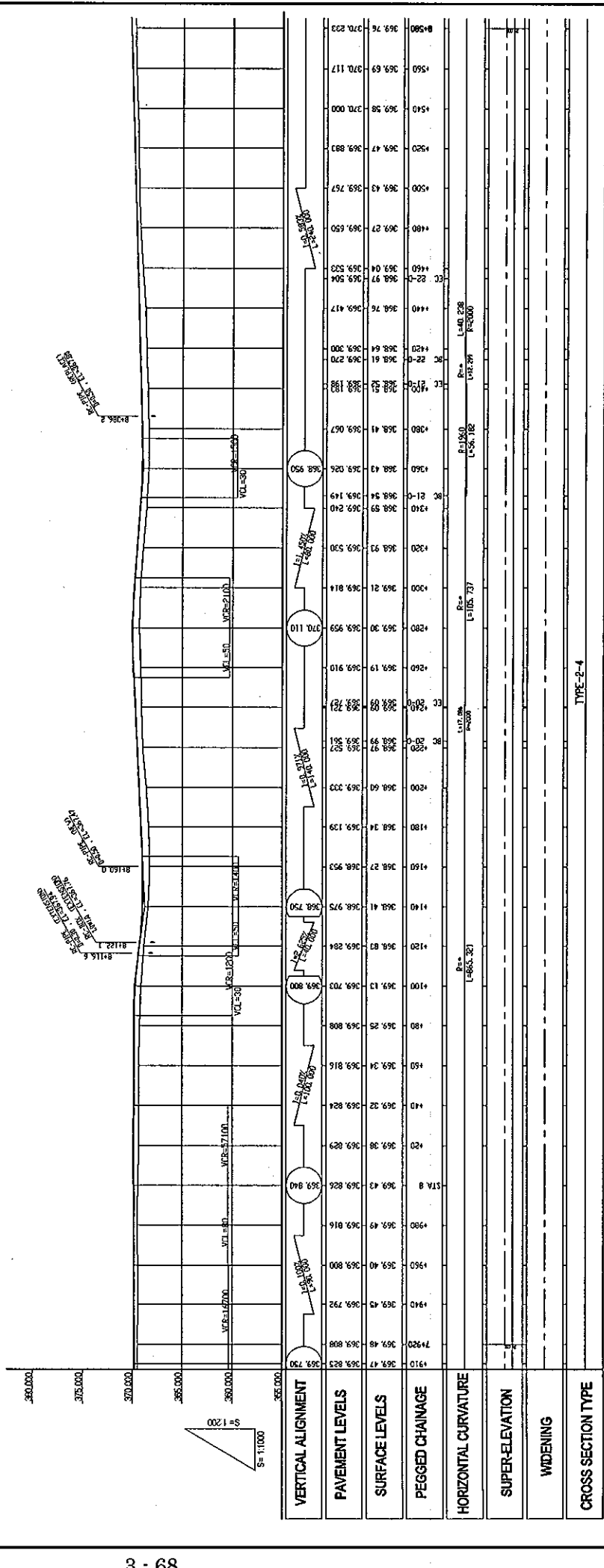
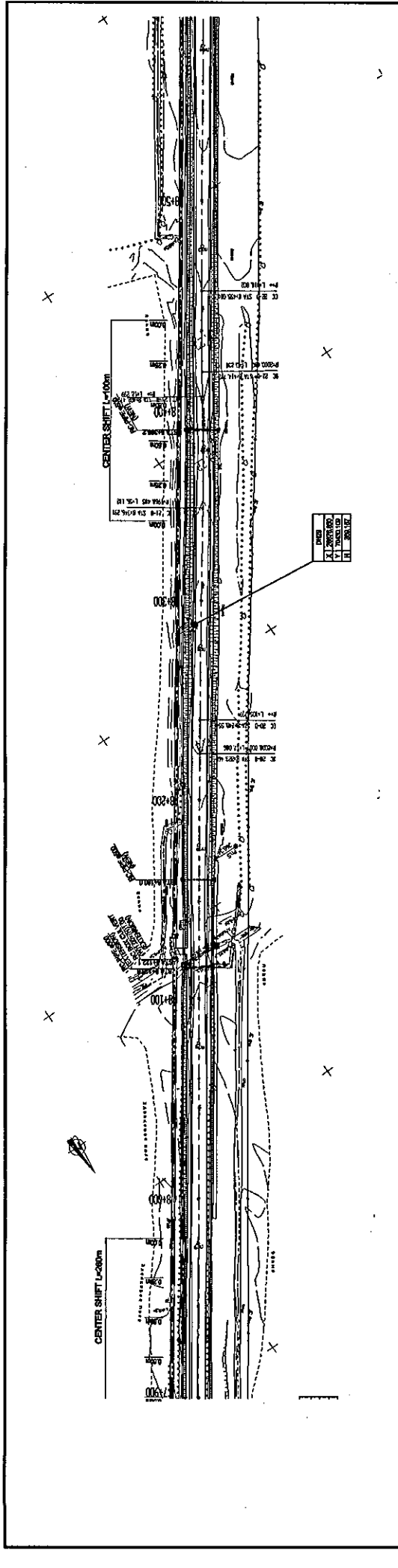
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DRAWING NO: PL-11

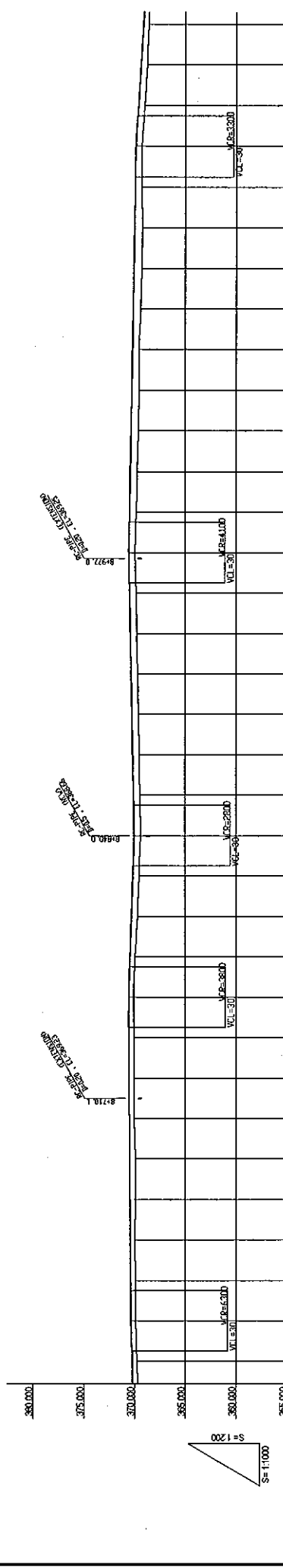
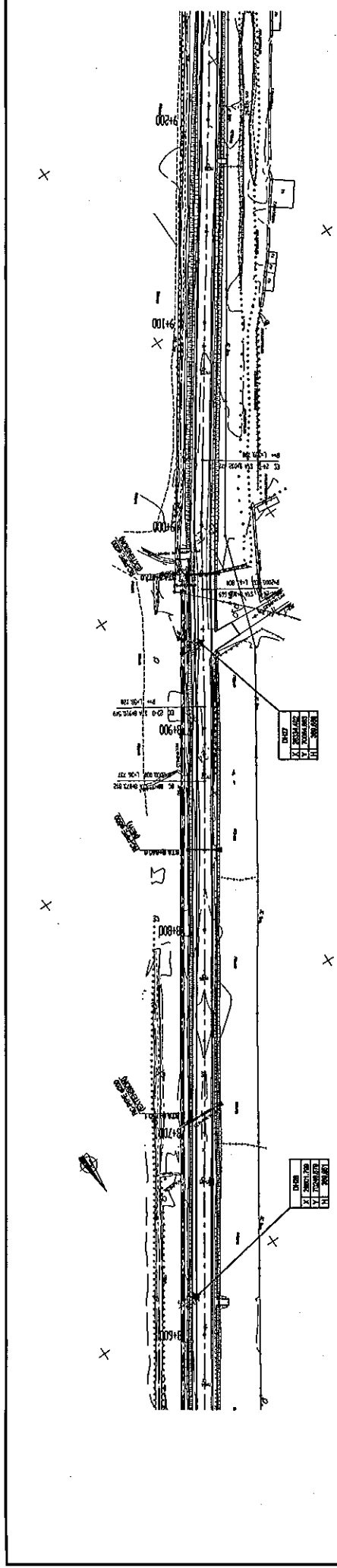
REV.



MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIJNI PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	PLAN AND PROFILE OF MAIN ROUTE (STA. 7+260 - STA. 7+920)	DRAWING NO:	PL-12
			SCALE:	H=1:1000 V=1:200		



MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: PLAN AND PROFILE OF MAIN ROUTE (STA:7+920 - STA:8+580)	SCALE: H=1:1000 V=1:200	DRAWING No: PL-13	Rv.
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VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
350.000	359.76	370.233	359.76	R=2000 L=36.737			TYPE-2-4
360.000	359.91	370.302	359.91	R=2000 L=36.737			TYPE-2-4
370.000	359.95	370.392	359.95	R=2000 L=36.737			TYPE-2-4
380.000	359.93	370.414	359.93	R=2000 L=36.737			TYPE-2-4
390.000	359.92	370.435	359.92	R=2000 L=36.737			TYPE-2-4
400.000	359.88	370.456	359.88	R=2000 L=36.737			TYPE-2-4
410.000	359.80	370.477	359.80	R=2000 L=36.737			TYPE-2-4
420.000	359.74	370.498	359.74	R=2000 L=36.737			TYPE-2-4
430.000	359.65	370.519	359.65	R=2000 L=36.737			TYPE-2-4
440.000	359.57	370.540	359.57	R=2000 L=36.737			TYPE-2-4
450.000	359.49	370.561	359.49	R=2000 L=36.737			TYPE-2-4
460.000	359.41	370.582	359.41	R=2000 L=36.737			TYPE-2-4
470.000	359.33	370.603	359.33	R=2000 L=36.737			TYPE-2-4
480.000	359.25	370.624	359.25	R=2000 L=36.737			TYPE-2-4
490.000	359.17	370.645	359.17	R=2000 L=36.737			TYPE-2-4
500.000	359.09	370.666	359.09	R=2000 L=36.737			TYPE-2-4
510.000	359.01	370.687	359.01	R=2000 L=36.737			TYPE-2-4
520.000	358.93	370.708	358.93	R=2000 L=36.737			TYPE-2-4
530.000	358.85	370.729	358.85	R=2000 L=36.737			TYPE-2-4
540.000	358.77	370.750	358.77	R=2000 L=36.737			TYPE-2-4
550.000	358.69	370.771	358.69	R=2000 L=36.737			TYPE-2-4
560.000	358.61	370.792	358.61	R=2000 L=36.737			TYPE-2-4
570.000	358.53	370.813	358.53	R=2000 L=36.737			TYPE-2-4
580.000	358.45	370.834	358.45	R=2000 L=36.737			TYPE-2-4
590.000	358.37	370.855	358.37	R=2000 L=36.737			TYPE-2-4
600.000	358.29	370.876	358.29	R=2000 L=36.737			TYPE-2-4
610.000	358.21	370.897	358.21	R=2000 L=36.737			TYPE-2-4
620.000	358.13	370.918	358.13	R=2000 L=36.737			TYPE-2-4
630.000	358.05	370.939	358.05	R=2000 L=36.737			TYPE-2-4
640.000	357.97	370.960	357.97	R=2000 L=36.737			TYPE-2-4
650.000	357.89	370.981	357.89	R=2000 L=36.737			TYPE-2-4
660.000	357.81	371.002	357.81	R=2000 L=36.737			TYPE-2-4
670.000	357.73	371.023	357.73	R=2000 L=36.737			TYPE-2-4
680.000	357.65	371.044	357.65	R=2000 L=36.737			TYPE-2-4
690.000	357.57	371.065	357.57	R=2000 L=36.737			TYPE-2-4
700.000	357.49	371.086	357.49	R=2000 L=36.737			TYPE-2-4
710.000	357.41	371.107	357.41	R=2000 L=36.737			TYPE-2-4
720.000	357.33	371.128	357.33	R=2000 L=36.737			TYPE-2-4
730.000	357.25	371.149	357.25	R=2000 L=36.737			TYPE-2-4
740.000	357.17	371.170	357.17	R=2000 L=36.737			TYPE-2-4
750.000	357.09	371.191	357.09	R=2000 L=36.737			TYPE-2-4
760.000	357.01	371.212	357.01	R=2000 L=36.737			TYPE-2-4
770.000	356.93	371.233	356.93	R=2000 L=36.737			TYPE-2-4
780.000	356.85	371.254	356.85	R=2000 L=36.737			TYPE-2-4
790.000	356.77	371.275	356.77	R=2000 L=36.737			TYPE-2-4
800.000	356.69	371.296	356.69	R=2000 L=36.737			TYPE-2-4
810.000	356.61	371.317	356.61	R=2000 L=36.737			TYPE-2-4
820.000	356.53	371.338	356.53	R=2000 L=36.737			TYPE-2-4
830.000	356.45	371.359	356.45	R=2000 L=36.737			TYPE-2-4
840.000	356.37	371.380	356.37	R=2000 L=36.737			TYPE-2-4
850.000	356.29	371.401	356.29	R=2000 L=36.737			TYPE-2-4
860.000	356.21	371.422	356.21	R=2000 L=36.737			TYPE-2-4
870.000	356.13	371.443	356.13	R=2000 L=36.737			TYPE-2-4
880.000	356.05	371.464	356.05	R=2000 L=36.737			TYPE-2-4
890.000	355.97	371.485	355.97	R=2000 L=36.737			TYPE-2-4
900.000	355.89	371.506	355.89	R=2000 L=36.737			TYPE-2-4
910.000	355.81	371.527	355.81	R=2000 L=36.737			TYPE-2-4
920.000	355.73	371.548	355.73	R=2000 L=36.737			TYPE-2-4
930.000	355.65	371.569	355.65	R=2000 L=36.737			TYPE-2-4
940.000	355.57	371.590	355.57	R=2000 L=36.737			TYPE-2-4

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

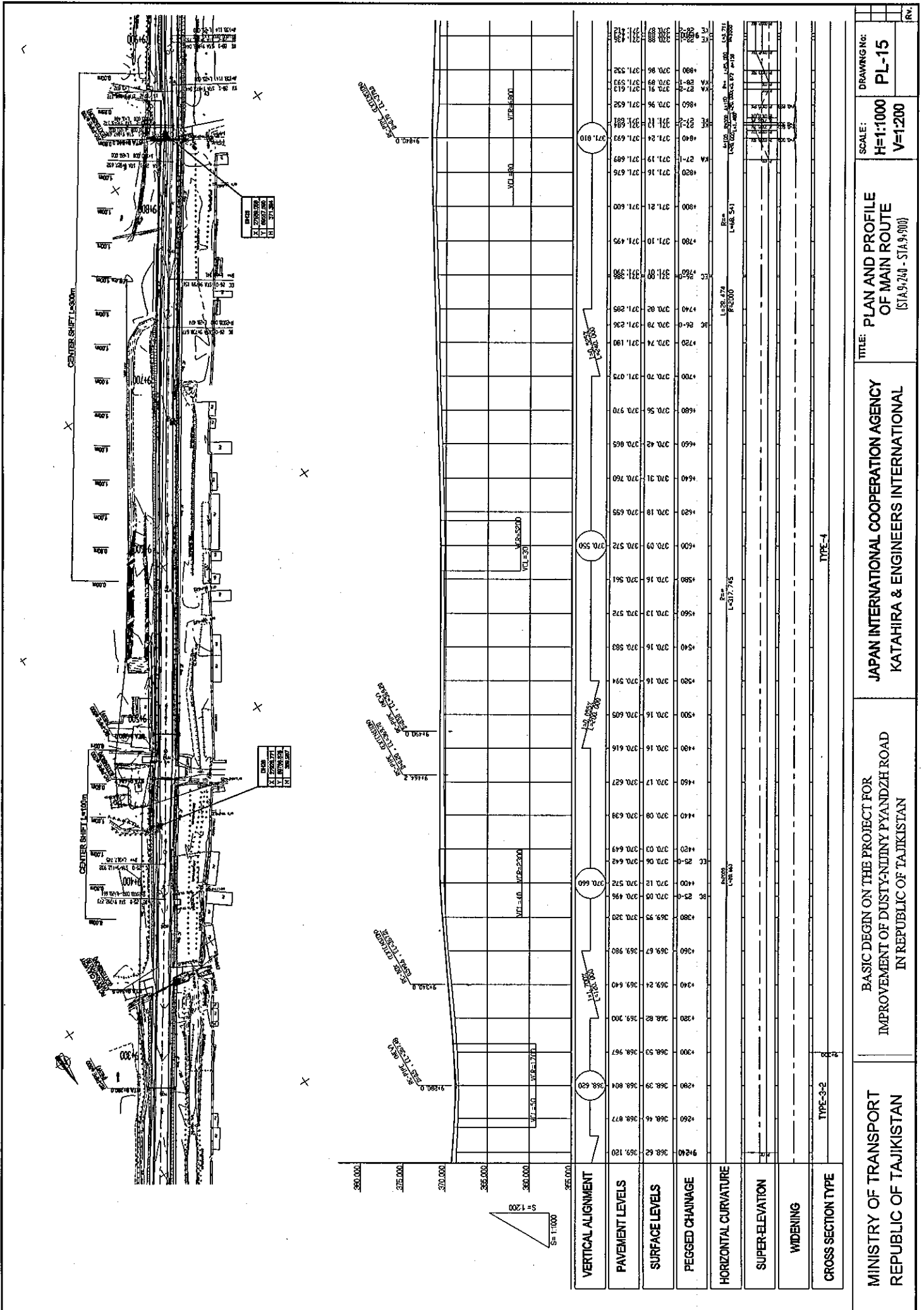
TITLE: PLAN AND PROFILE  
OF MAIN ROUTE  
(SIA.8.580 - SIA.9.740)

SCALE: H=1:1000  
V=1:200

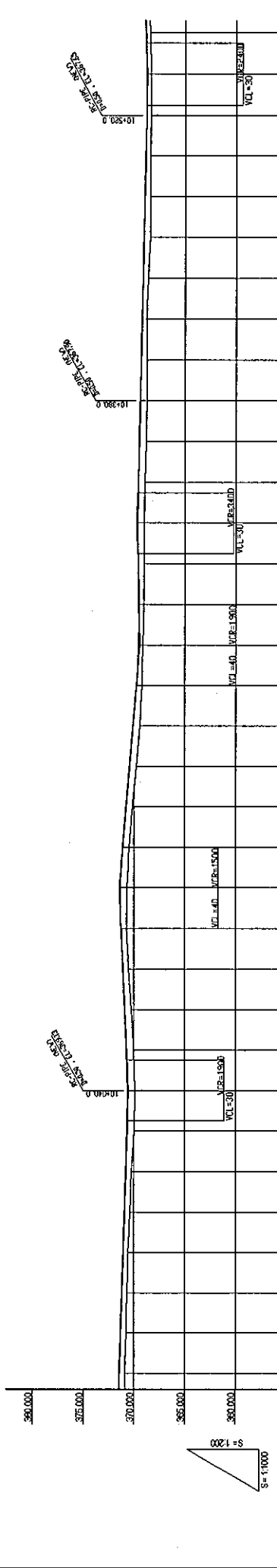
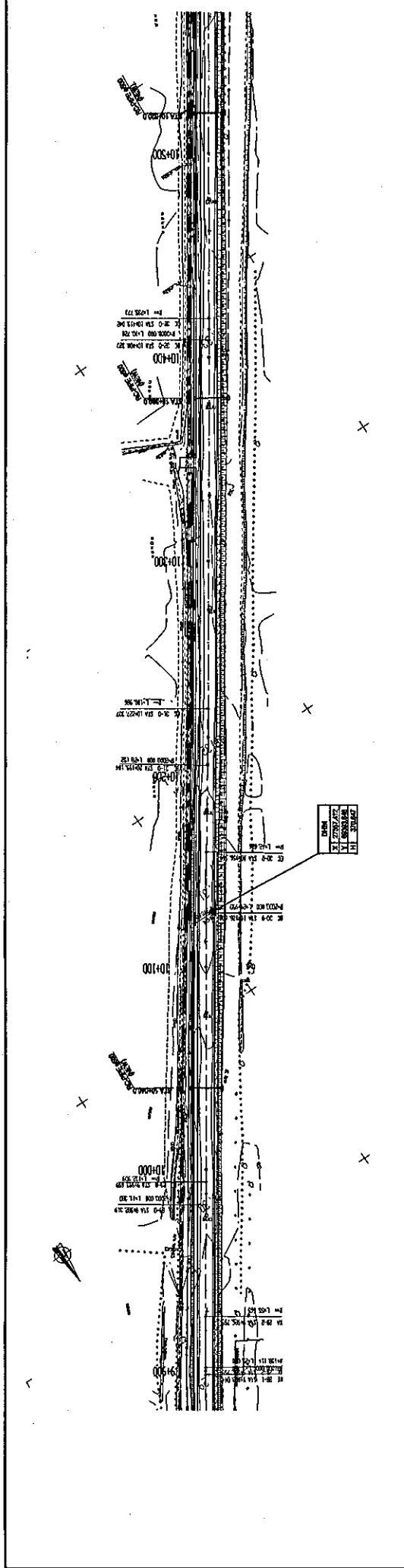
DRAWING No: PL-14

Rv





MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTYNDINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	SCALE:	DRAWING NO:
			H=1:1000 V=1:200	PL-15
		TITLE: PLAN AND PROFILE OF MAIN ROUTE (STA.9+240 - STA.9+900)		
		TYPE-1		
		TYPE-3-2		
		REV.		



VERTICAL ALIGNMENT	360.000	365.000	370.000	375.000	380.000	385.000	390.000	395.000
PAVEMENT LEVELS	368.790	368.796	368.839	368.844	368.877	368.900	368.921	368.912
SURFACE LEVELS	368.48	368.39	368.23	368.44	368.47	368.48	368.48	368.48
PEGGED CHAINAGE	368.48	368.39	368.23	368.44	368.47	368.48	368.48	368.48
HORIZONTAL CURVATURE	KA 28-2	KA 28-2	KA 28-2	KA 28-2	KA 28-2	KA 28-2	KA 28-2	KA 28-2
SUPER-ELEVATION	KA 28-2	KA 28-2	KA 28-2	KA 28-2	KA 28-2	KA 28-2	KA 28-2	KA 28-2
WIDENING								
CROSS SECTION TYPE	TYPE-2-4							

**MINISTRY OF TRANSPORT**  
**REPUBLIC OF TAJIKISTAN**

**BASIC DESIGN ON THE PROJECT FOR**  
**IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD**  
**IN REPUBLIC OF TAJIKISTAN**

**JAPAN INTERNATIONAL COOPERATION AGENCY**  
**KATAHIRA & ENGINEERS INTERNATIONAL**

**TITLE: PLAN AND PROFILE OF MAIN ROUTE (STA. 9+900 - STA. 10+500)**

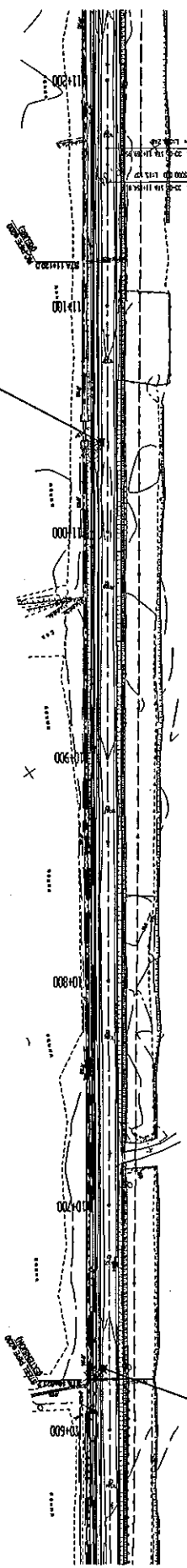
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**DRAWING NO: PL-16**

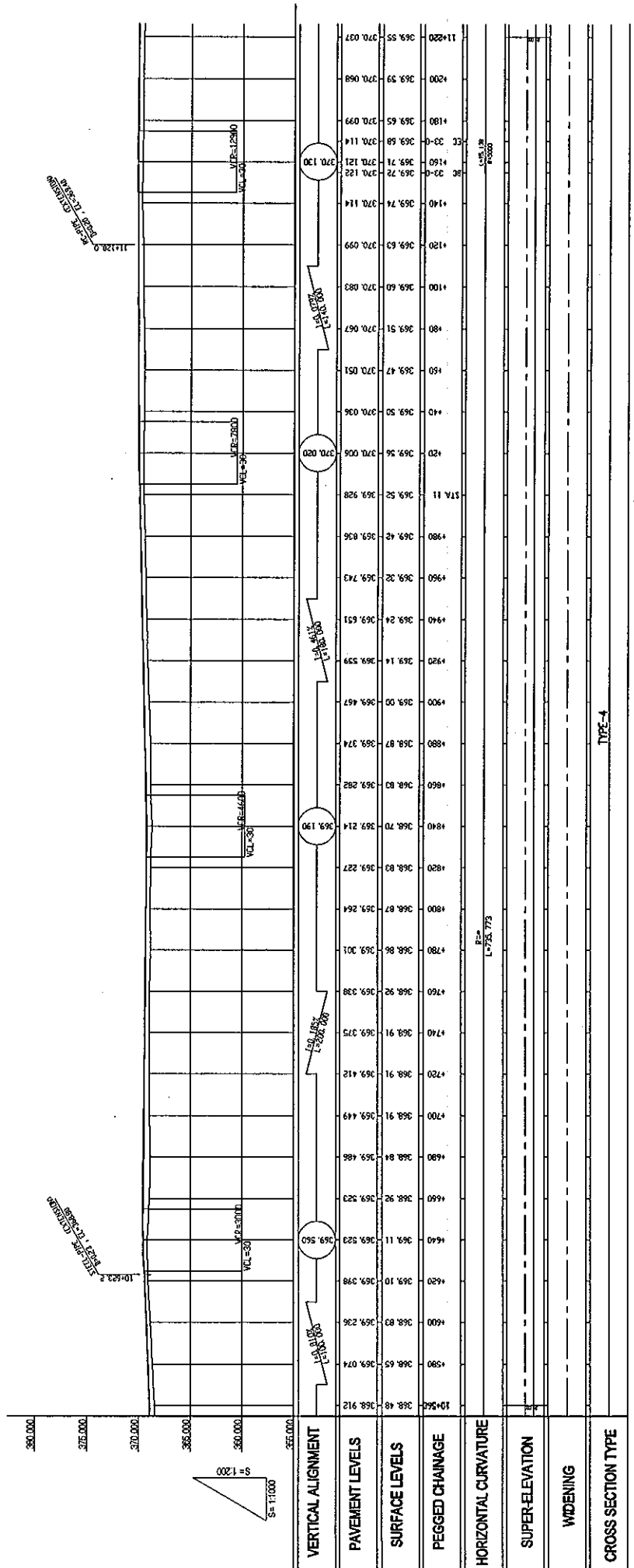
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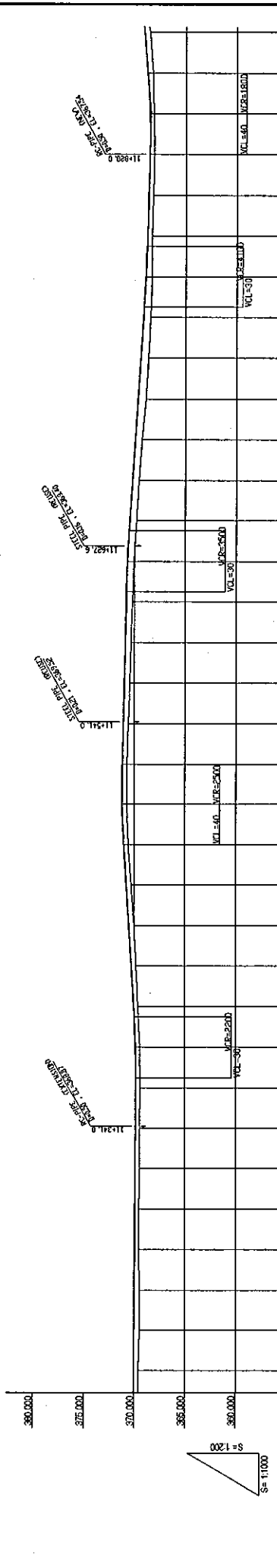
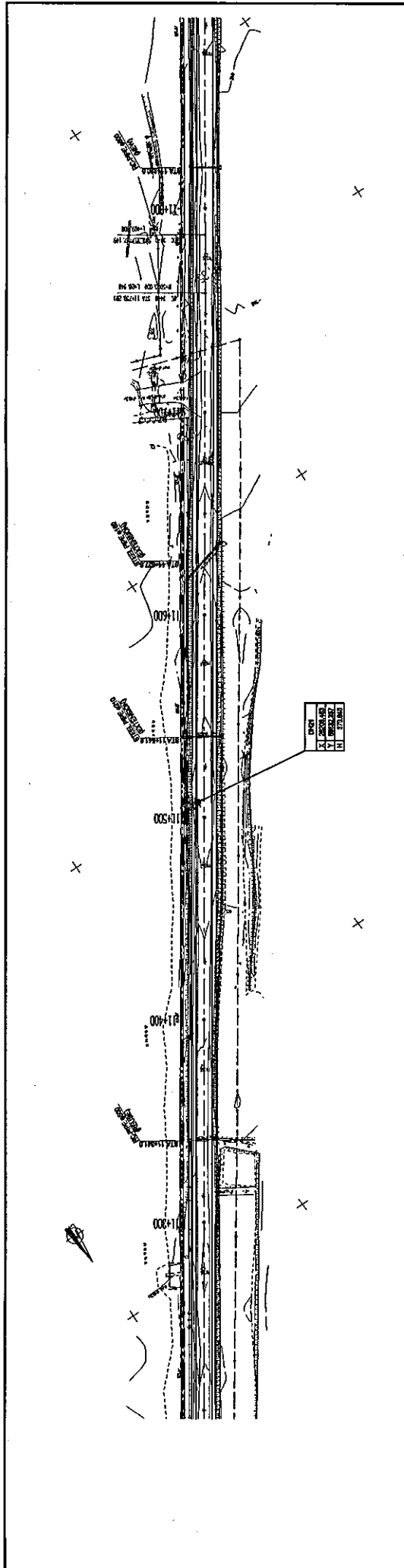
DATE	11.05.2011
BY	11.05.2011
CHK	11.05.2011
APP	11.05.2011



DATE	11.05.2011
BY	11.05.2011
CHK	11.05.2011
APP	11.05.2011



MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	PLAN AND PROFILE OF MAIN ROUTE (STA. 0+500 - STA. 11+200)
			SCALE:	H=1:1000 V=1:200
			DRAWING NO:	PL-17
			REV.	



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
11+800	369.53	370.006	369.53				TYPE-4
11+780	369.48	369.975	369.48				
11+760	369.53	369.945	369.53				TYPE-4
11+740	369.50	369.914	369.50				
11+720	369.45	369.883	369.45				TYPE-4
11+700	369.45	369.852	369.45				
11+680	369.39	369.821	369.39				TYPE-4
11+660	369.40	369.840	369.40				
11+640	369.43	370.028	369.43				TYPE-4
11+620	369.42	370.267	369.42				
11+600	369.99	370.505	369.99				TYPE-4
11+580	370.27	370.743	370.27				
11+560	370.57	370.982	370.57				TYPE-4
11+540	370.71	371.139	370.71				
11+520	370.58	371.047	370.58				TYPE-4
11+500	370.32	370.873	370.32				
11+480	370.20	370.787	370.20				TYPE-4
11+460	370.04	370.668	370.04				
11+440	369.82	370.443	369.82				TYPE-4
11+420	369.56	370.188	369.56				
11+400	369.27	369.929	369.27				TYPE-4
11+380	369.67	369.414	369.67				
11+360	368.47	369.157	368.47				TYPE-4
11+340	368.32	368.788	368.32				
11+320	368.22	368.747	368.22				TYPE-4
11+300	368.16	368.563	368.16				
11+280	368.28	368.784	368.28				TYPE-4
11+260	368.57	369.118	368.57				

MINISTRY OF TRANSPORT  
 REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
 IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD  
 IN REPUBLIC OF TAJIKISTAN

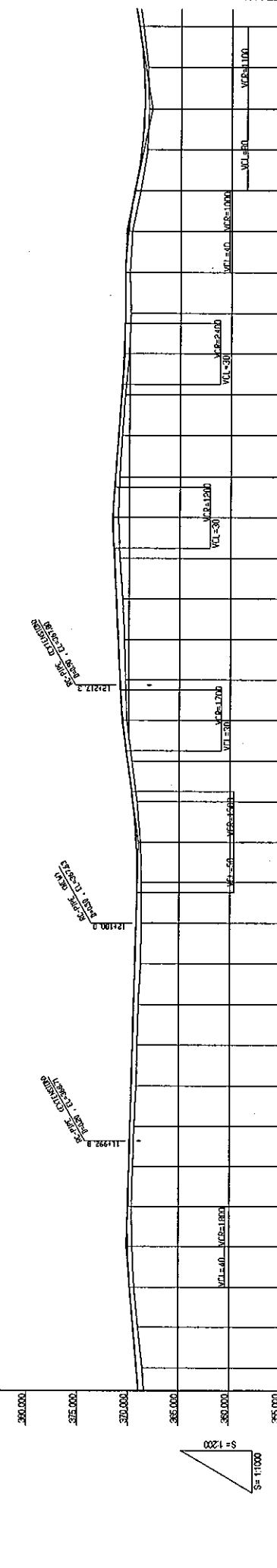
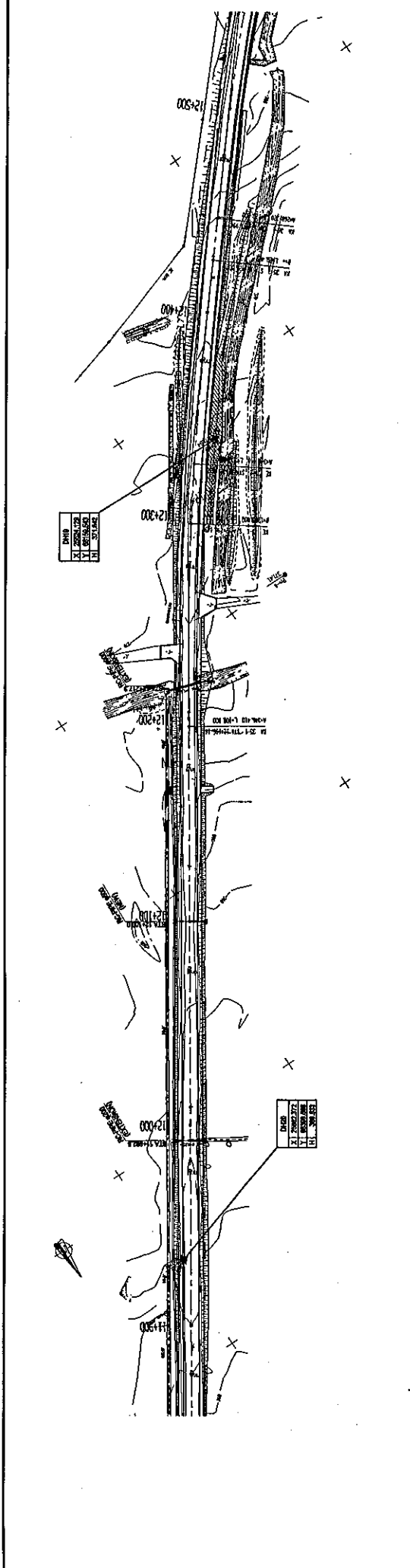
JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL

TITLE: PLAN AND PROFILE  
 OF MAIN ROUTE  
 (STA. 11+200 - STA. 11+800)

DRAWING NO: PL-18  
 SCALE: H=1:1000  
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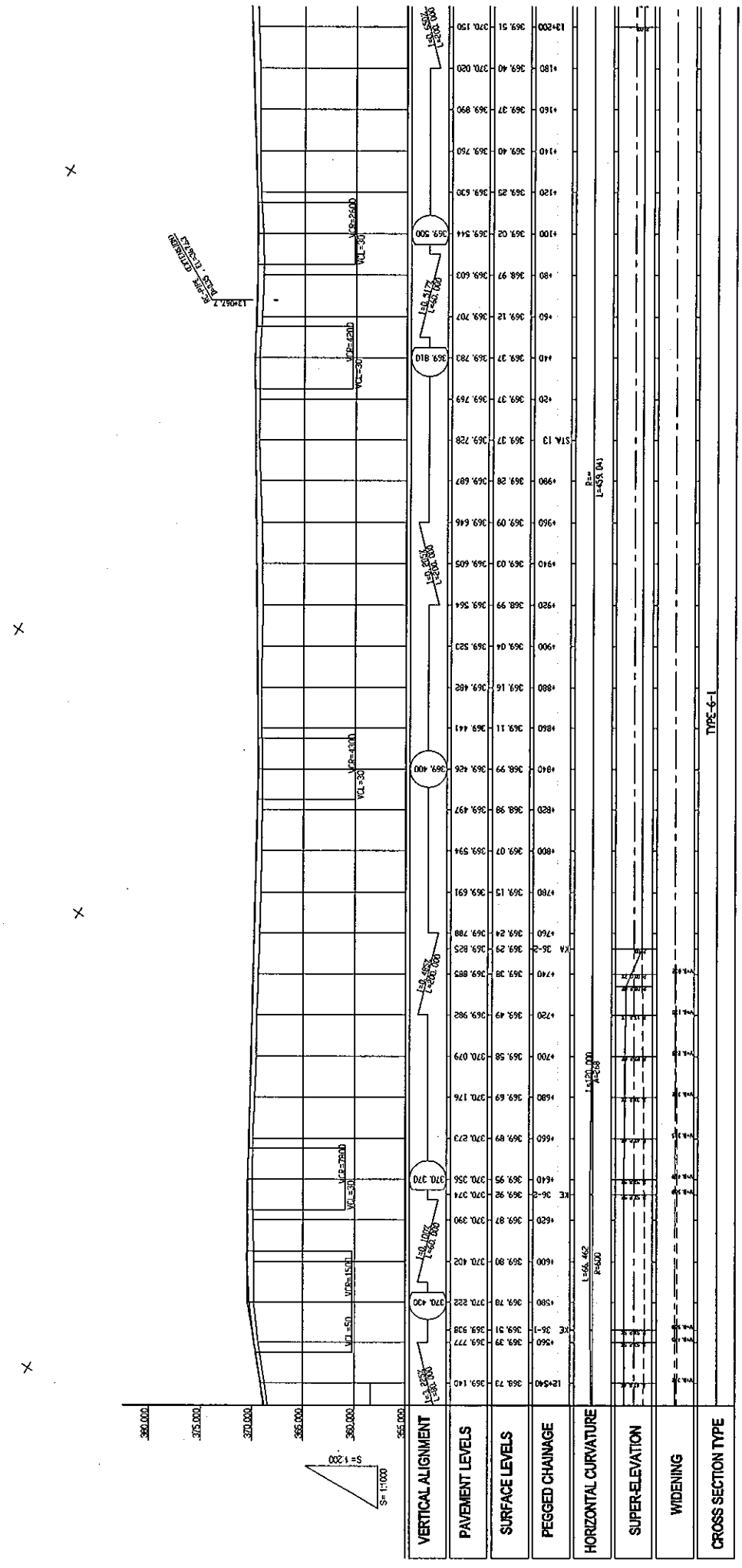
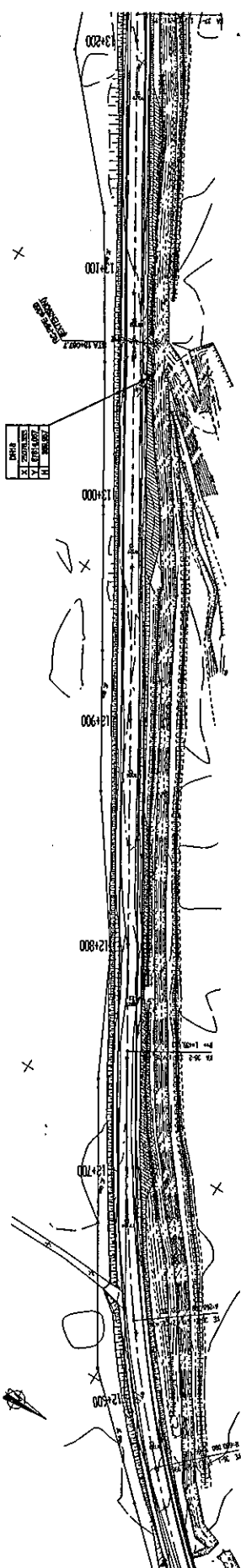
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RV.

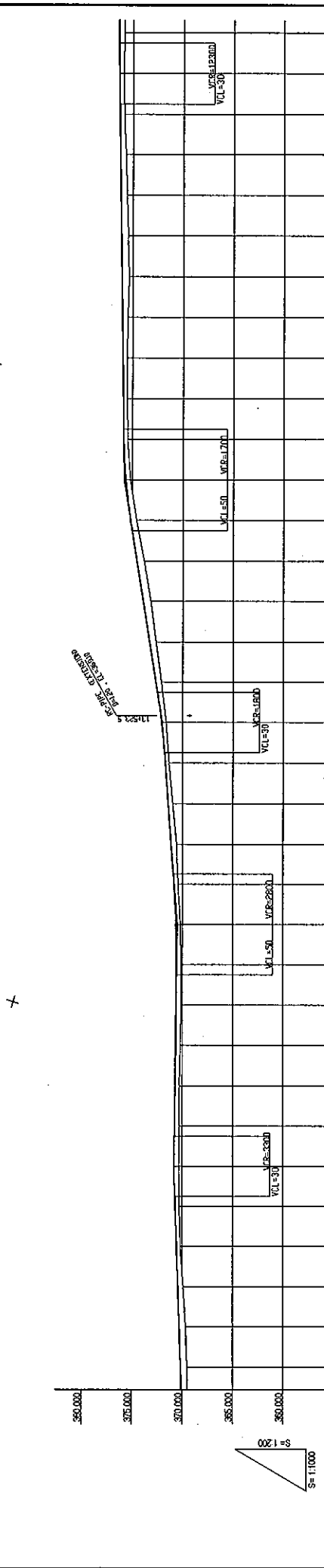
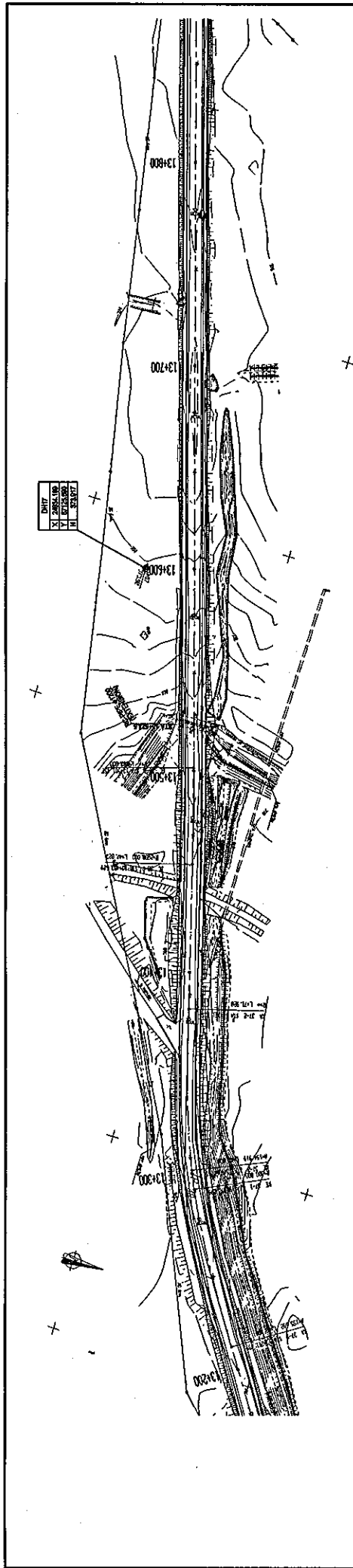


VERTICAL ALIGNMENT	11400.00	11450.00	11500.00	11550.00	11600.00	11650.00	11700.00	11750.00	11800.00	11850.00	11900.00	11950.00	12000.00	12050.00	12100.00	12150.00	12200.00	12250.00	12300.00	12350.00	12400.00	12450.00	12500.00	12550.00		
PAVEMENT LEVELS	368.37	368.98	369.36	369.78	369.96	370.00	370.08	370.50	369.10	369.50	369.48	369.20	369.00	368.80	369.20	369.50	369.80	369.90	369.90	369.80	369.60	369.40	369.20	368.90	368.60	
SURFACE LEVELS	368.97	368.98	369.36	369.78	369.96	370.00	370.08	370.50	369.10	369.50	369.48	369.20	369.00	368.80	369.20	369.50	369.80	369.90	369.90	369.80	369.60	369.40	369.20	368.90	368.60	368.37
PEGGED CHAINAGE	11400.00	11450.00	11500.00	11550.00	11600.00	11650.00	11700.00	11750.00	11800.00	11850.00	11900.00	11950.00	12000.00	12050.00	12100.00	12150.00	12200.00	12250.00	12300.00	12350.00	12400.00	12450.00	12500.00	12550.00		
HORIZONTAL CURVATURE																										
SUPER-ELEVATION																										
WIDENING																										
CROSS SECTION TYPE	TYPE-2-4																									

DRAWING NO: PL-19  
 SCALE: H=1:1000 V=1:200  
 TITLE: PLAN AND PROFILE OF MAIN ROUTE (STA. 11400 - STA. 12550)  
 JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN  
 MINISTRY OF TRANSPORT  
 REPUBLIC OF TAJIKISTAN  
 DATE: 2002.07.27  
 DRAWN BY: A.S.M.  
 CHECKED BY: S.M.S.



MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NININ Y PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	PLAN AND PROFILE OF MAIN ROUTE (STA.12+50 - STA.13+20)	DRAWING NO:	PL-20
			SCALE:	H=1:1000 V=1:200		



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
13+200	369.51	370.150	370.150				TYPE-6-1
13+225	369.59	370.225	370.225				
13+250	369.66	370.280	370.280				
13+275	369.70	370.320	370.320				
13+300	369.72	370.342	370.342				
13+325	369.73	370.353	370.353				
13+350	369.74	370.359	370.359				
13+375	369.74	370.361	370.361				
13+400	369.74	370.366	370.366				
13+425	369.74	370.372	370.372				
13+450	369.74	370.376	370.376				
13+475	369.74	370.379	370.379				
13+500	369.74	370.381	370.381				
13+525	369.74	370.382	370.382				
13+550	369.74	370.383	370.383				
13+575	369.74	370.384	370.384				
13+600	369.74	370.385	370.385				
13+625	369.74	370.386	370.386				
13+650	369.74	370.387	370.387				
13+675	369.74	370.388	370.388				
13+700	369.74	370.389	370.389				
13+725	369.74	370.390	370.390				
13+750	369.74	370.391	370.391				
13+775	369.74	370.392	370.392				
13+800	369.74	370.393	370.393				

MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN

BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN

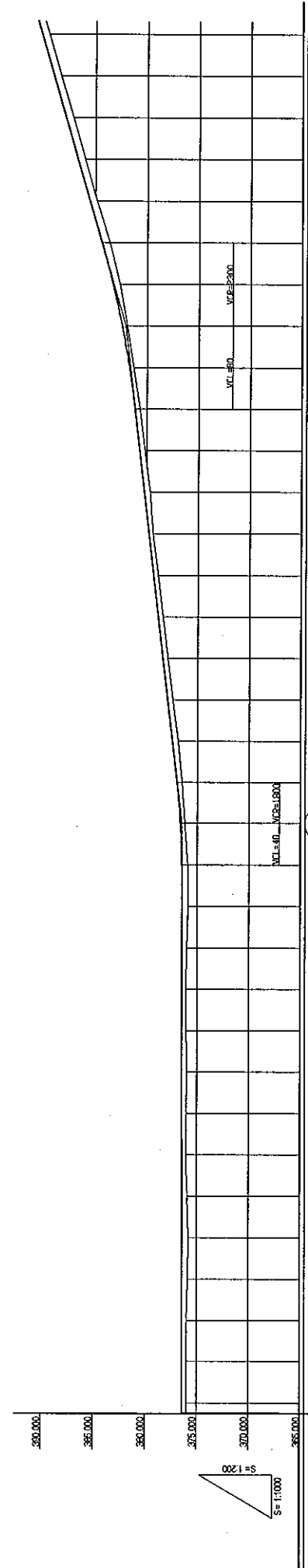
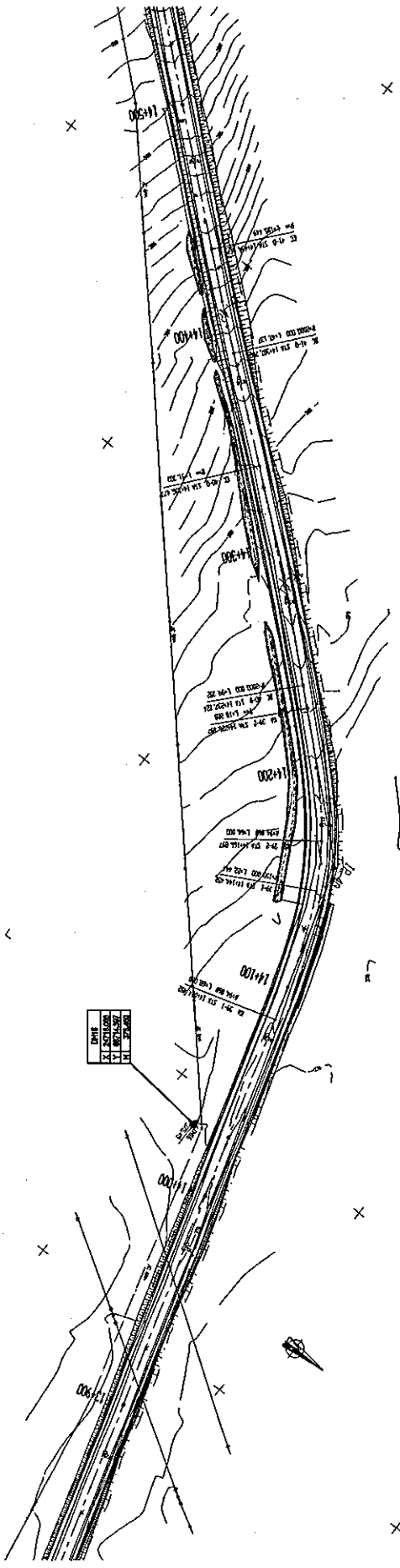
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE: PLAN AND PROFILE  
OF MAIN ROUTE  
(STA.13+200 - STA.13+800)

SCALE: H=1:1000  
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DRAWING NO: PL-21

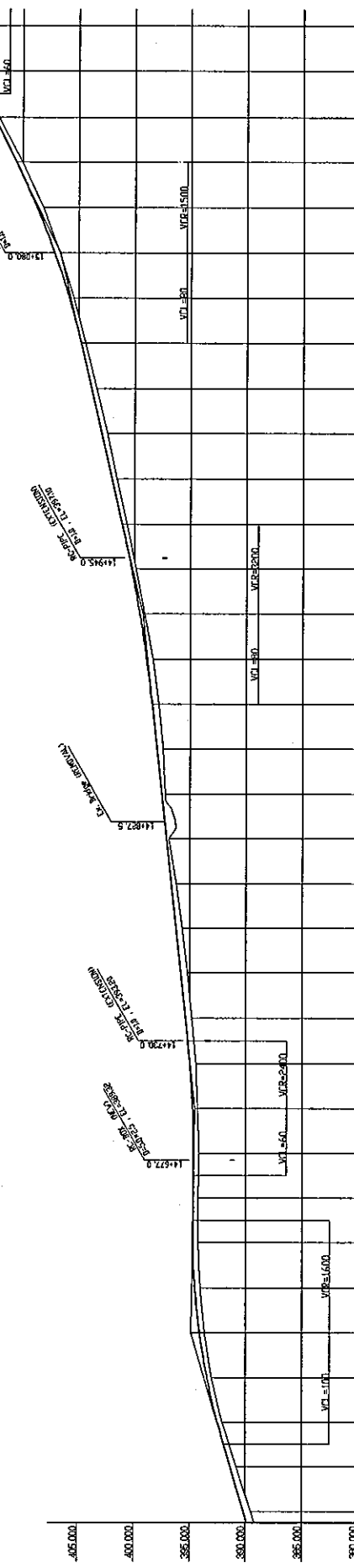
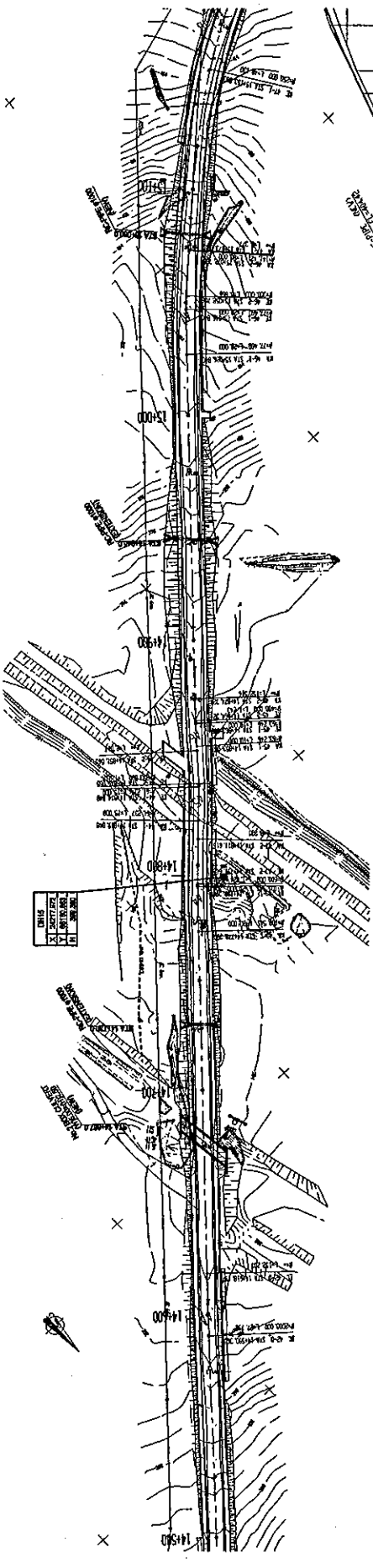
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VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
14+520 389.53	389.09	389.032	389.858				TYPE-5-2
14+500 388.09	387.18	387.858	386.02			TYPE-5-2	
14+480 386.62	384.02	385.541	383.301				TYPE-5-2
14+460 384.64	382.20	382.730	381.675			TYPE-5-2	
14+440 382.62	381.30	381.675	380.642				TYPE-5-2
14+420 380.62	379.36	379.737	379.275			TYPE-5-2	
14+400 378.62	377.38	377.887	377.429				TYPE-5-2
14+380 376.62	375.30	375.485	375.453			TYPE-5-2	
14+360 374.62	373.22	373.614	373.672				TYPE-5-2
14+340 372.62	371.14	371.743	371.821			TYPE-5-2	
14+320 370.62	369.06	369.870	369.990				TYPE-5-2
14+300 368.00	367.00	367.000	367.000			TYPE-5-2	
14+280 366.00	365.00	365.000	365.000				TYPE-5-2
14+260 364.00	363.00	363.000	363.000			TYPE-5-2	
14+240 362.00	361.00	361.000	361.000				TYPE-5-2
14+220 360.00	359.00	359.000	359.000			TYPE-5-2	
14+200 358.00	357.00	357.000	357.000				TYPE-5-2
14+180 356.00	355.00	355.000	355.000			TYPE-5-2	
14+160 354.00	353.00	353.000	353.000				TYPE-5-2
14+140 352.00	351.00	351.000	351.000			TYPE-5-2	
14+120 350.00	349.00	349.000	349.000				TYPE-5-2
14+100 348.00	347.00	347.000	347.000			TYPE-5-2	
14+080 346.00	345.00	345.000	345.000				TYPE-5-2
14+060 344.00	343.00	343.000	343.000			TYPE-5-2	
14+040 342.00	341.00	341.000	341.000				TYPE-5-2
14+020 340.00	339.00	339.000	339.000			TYPE-5-2	
14+000 338.00	337.00	337.000	337.000				TYPE-5-2

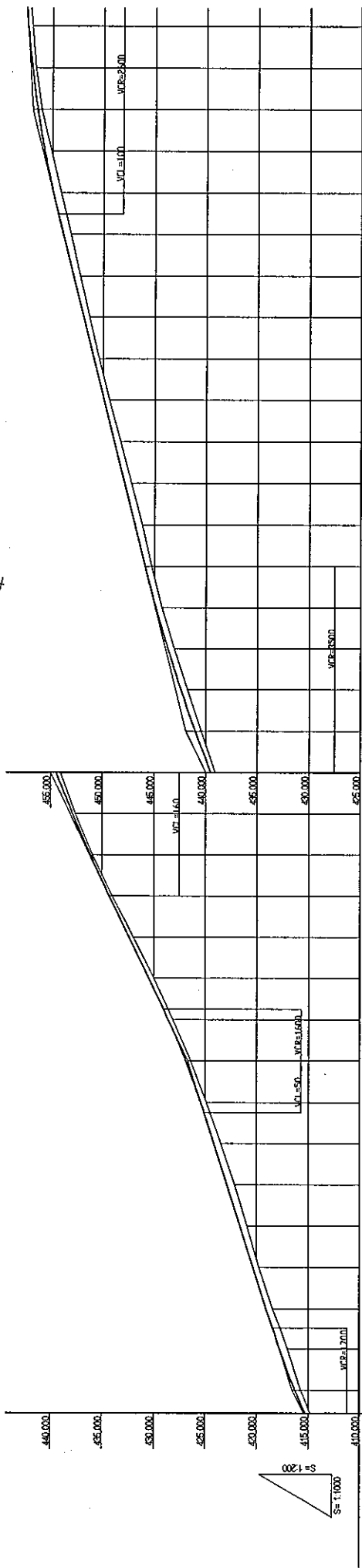
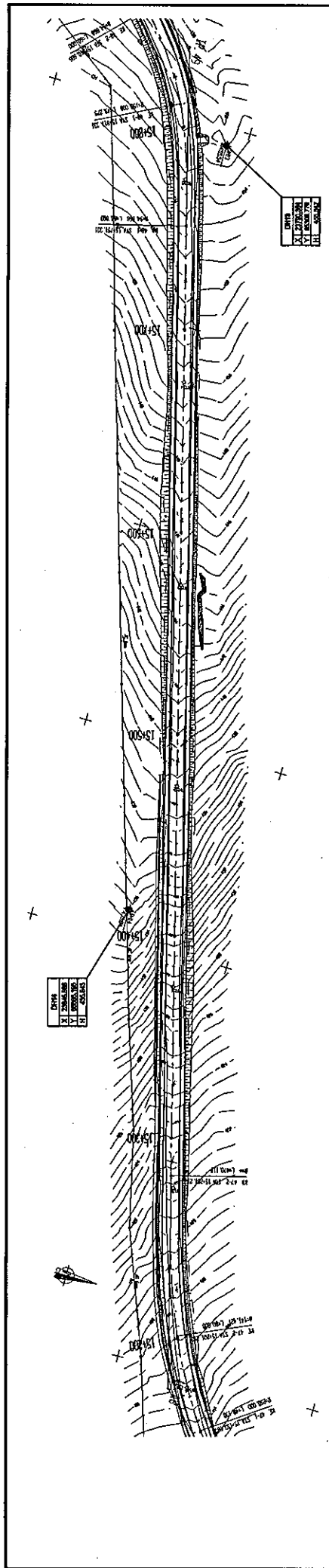
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**[STA. 14+000 - STA. 14+520]**  
**JAPAN INTERNATIONAL COOPERATION AGENCY**  
**KATAHIRA & ENGINEERS INTERNATIONAL**  
 BASIC DESIGN ON THE PROJECT FOR  
 IMPROVEMENT OF DUSTY-NININY PYANDZH ROAD  
 IN REPUBLIC OF TAJIKISTAN  
 MINISTRY OF TRANSPORT  
 REPUBLIC OF TAJIKISTAN





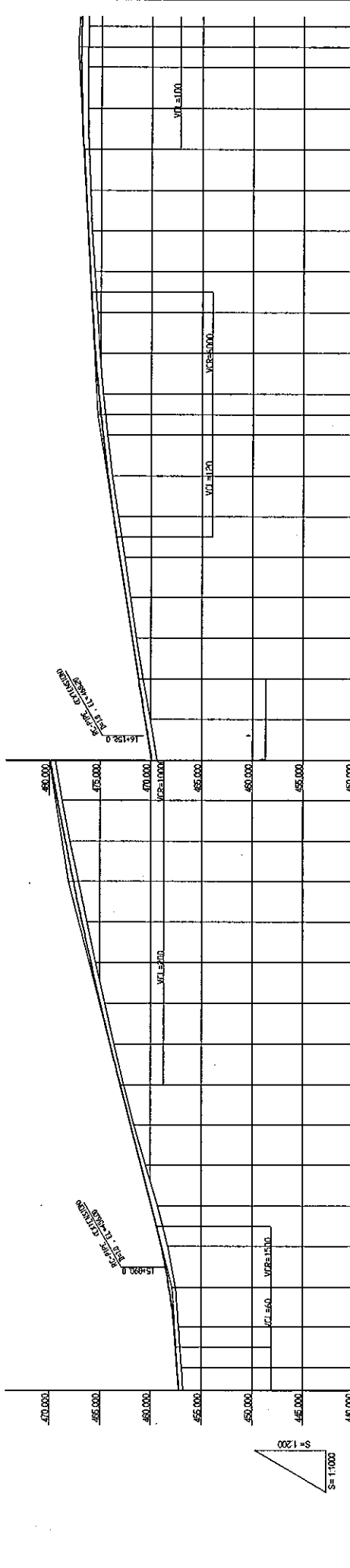
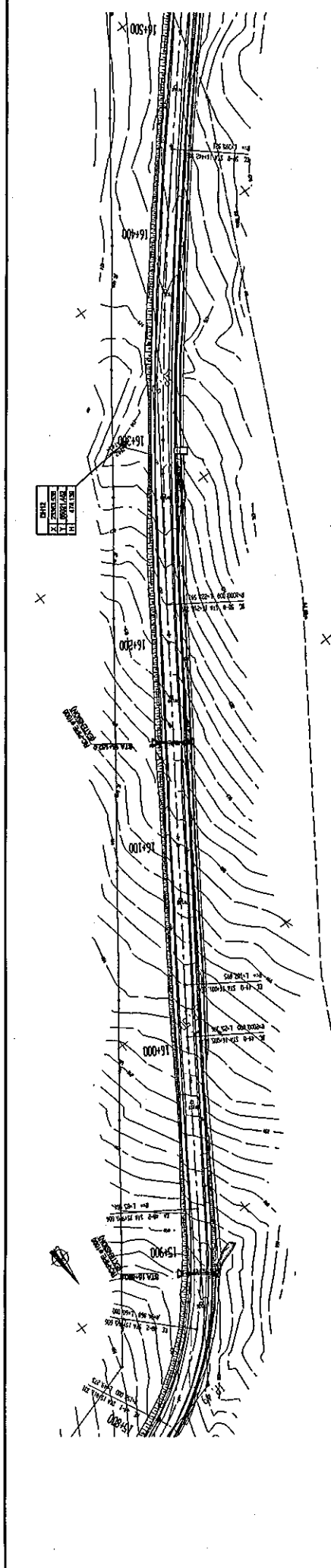
VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
14350	390.195	391.478	390.195				
14360	391.359	392.641	391.359				
14370	392.520	393.804	392.520				
14380	393.681	394.967	393.681				
14390	394.842	396.130	394.842				
14400	396.003	397.293	396.003				
14410	397.164	398.456	397.164				
14420	398.325	399.619	398.325				
14430	399.486	400.782	399.486				
14440	400.647	401.945	400.647				
14450	401.808	403.108	401.808				
14460	402.969	404.271	402.969				
14470	404.130	405.434	404.130				
14480	405.291	406.597	405.291				
14490	406.452	407.760	406.452				
14500	407.613	408.923	407.613				
14510	408.774	410.086	408.774				
14520	409.935	411.249	409.935				
14530	411.096	412.412	411.096				
14540	412.257	413.575	412.257				
14550	413.418	414.738	413.418				
14560	414.579	415.901	414.579				
14570	415.740	417.064	415.740				
14580	416.901	418.227	416.901				
14590	418.062	419.390	418.062				
14600	419.223	420.553	419.223				
14610	420.384	421.716	420.384				
14620	421.545	422.879	421.545				
14630	422.706	424.042	422.706				
14640	423.867	425.205	423.867				
14650	425.028	426.368	425.028				
14660	426.189	427.531	426.189				
14670	427.350	428.694	427.350				
14680	428.511	429.857	428.511				
14690	429.672	431.020	429.672				
14700	430.833	432.183	430.833				
14710	431.994	433.346	431.994				
14720	433.155	434.509	433.155				
14730	434.316	435.672	434.316				
14740	435.477	436.835	435.477				
14750	436.638	437.998	436.638				
14760	437.799	439.161	437.799				
14770	438.960	440.324	438.960				
14780	440.121	441.487	440.121				
14790	441.282	442.650	441.282				
14800	442.443	443.813	442.443				
14810	443.604	444.976	443.604				
14820	444.765	446.139	444.765				
14830	445.926	447.302	445.926				
14840	447.087	448.465	447.087				
14850	448.248	449.628	448.248				

MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN	BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NIINY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	SCALE:	DRAWING NO: <b>PL-23</b>
			H=1:1000 V=1:200	
		TITLE: PLAN AND PROFILE OF MAIN ROUTE (STA. 14.530 - STA. 15.180)		REV.



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
15+00	415.20	417.02	419.62	1:30			TYPE-6-2
15+100	416.263	417.10	420.289	1:30			
15+200	418.42	419.062	421.595	1:30			
15+300	421.47	421.127	422.958	1:30			
15+400	424.85	423.402	424.373	1:30			
15+500	428.11	425.573	425.829	1:30			
15+600	431.93	427.375	427.364	1:30			
15+700	435.94	428.129	428.847	1:30			
15+800	439.06	429.487	430.364	1:30			
15+900	440.44	430.996	431.911	1:30			
15+000	441.77	432.393	433.498	1:30			
15+100	443.08	433.677	435.129	1:30			
15+200	444.28	434.848	436.804	1:30			
15+300	445.23	435.905	438.525	1:30			
15+400	446.18	436.907	440.291	1:30			
15+500	447.22	437.908	442.102	1:30			
15+600	448.31	438.909	443.957	1:30			
15+700	449.38	439.911	445.857	1:30			
15+800	450.40	440.912	447.801	1:30			
15+900	451.35	441.913	449.789	1:30			
16+000	452.28	442.915	451.821	1:30			
16+100	453.16	443.916	453.897	1:30			
16+200	454.13	444.898	456.018	1:30			
16+300	454.09	445.747	458.184	1:30			
16+400	455.04	446.441	460.395	1:30			
16+500	455.98	447.088	462.651	1:30			
16+600	456.84	447.688	464.952	1:30			
16+700	457.64	448.241	467.299	1:30			
16+800	458.38	448.747	469.692	1:30			
16+900	459.07	449.206	472.131	1:30			

DRAWING NO: PL-24  
 SCALE: H=1:1000 V=1:200  
 TITLE: PLAN AND PROFILE OF MAIN ROUTE (STA. 15+00 - STA. 15+800)  
 JAPAN INTERNATIONAL COOPERATION AGENCY  
 KATAHIRA & ENGINEERS INTERNATIONAL  
 BASIC DESIGN ON THE PROJECT FOR IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD IN REPUBLIC OF TAJIKISTAN  
 MINISTRY OF TRANSPORT REPUBLIC OF TAJIKISTAN  
 TYPE-6-2



STATION	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER ELEVATION	WIDENING	CROSS SECTION TYPE
15+840	436.97	437.376					
15+850	436.97	437.655					
15+860	436.97	437.934					
15+870	436.97	438.213					
15+880	436.97	438.492					
15+890	436.97	438.771					
15+900	436.97	439.050					
15+910	436.97	439.329					
15+920	436.97	439.608					
15+930	436.97	439.887					
15+940	436.97	440.166					
15+950	436.97	440.445					
15+960	436.97	440.724					
15+970	436.97	441.003					
15+980	436.97	441.282					
15+990	436.97	441.561					
16+000	436.97	441.840					
16+010	436.97	442.119					
16+020	436.97	442.398					
16+030	436.97	442.677					
16+040	436.97	442.956					
16+050	436.97	443.235					
16+060	436.97	443.514					
16+070	436.97	443.793					
16+080	436.97	444.072					
16+090	436.97	444.351					
16+100	436.97	444.630					
16+110	436.97	444.909					
16+120	436.97	445.188					
16+130	436.97	445.467					
16+140	436.97	445.746					
16+150	436.97	446.025					
16+160	436.97	446.304					
16+170	436.97	446.583					
16+180	436.97	446.862					
16+190	436.97	447.141					
16+200	436.97	447.420					
16+210	436.97	447.699					
16+220	436.97	447.978					
16+230	436.97	448.257					
16+240	436.97	448.536					
16+250	436.97	448.815					
16+260	436.97	449.094					
16+270	436.97	449.373					
16+280	436.97	449.652					
16+290	436.97	449.931					
16+300	436.97	450.210					
16+310	436.97	450.489					
16+320	436.97	450.768					
16+330	436.97	451.047					
16+340	436.97	451.326					
16+350	436.97	451.605					
16+360	436.97	451.884					
16+370	436.97	452.163					
16+380	436.97	452.442					
16+390	436.97	452.721					
16+400	436.97	453.000					
16+410	436.97	453.279					
16+420	436.97	453.558					
16+430	436.97	453.837					
16+440	436.97	454.116					
16+450	436.97	454.395					
16+460	436.97	454.674					
16+470	436.97	454.953					
16+480	436.97	455.232					
16+490	436.97	455.511					
16+500	436.97	455.790					

**MINISTRY OF TRANSPORT  
REPUBLIC OF TAJIKISTAN**

**BASIC DESIGN ON THE PROJECT FOR  
IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD  
IN REPUBLIC OF TAJIKISTAN**

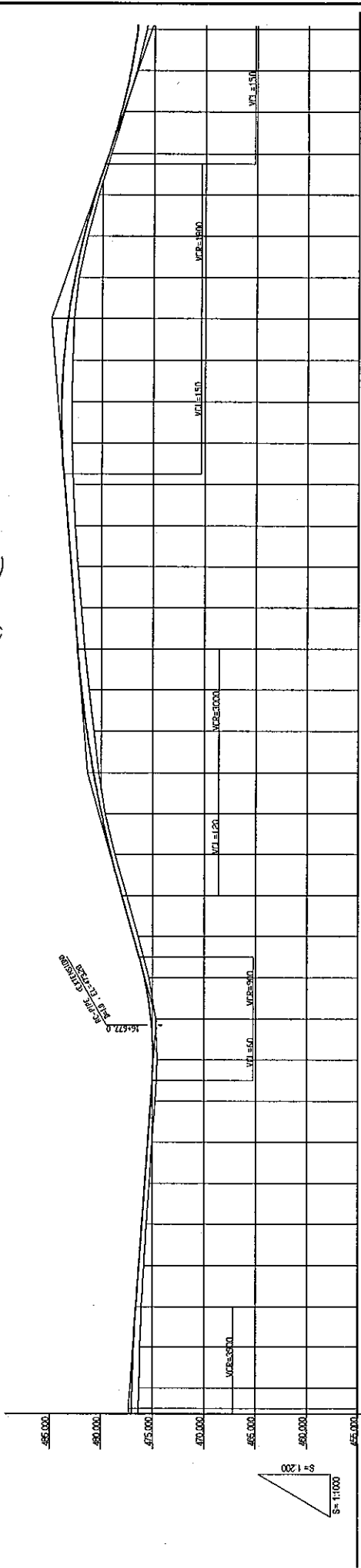
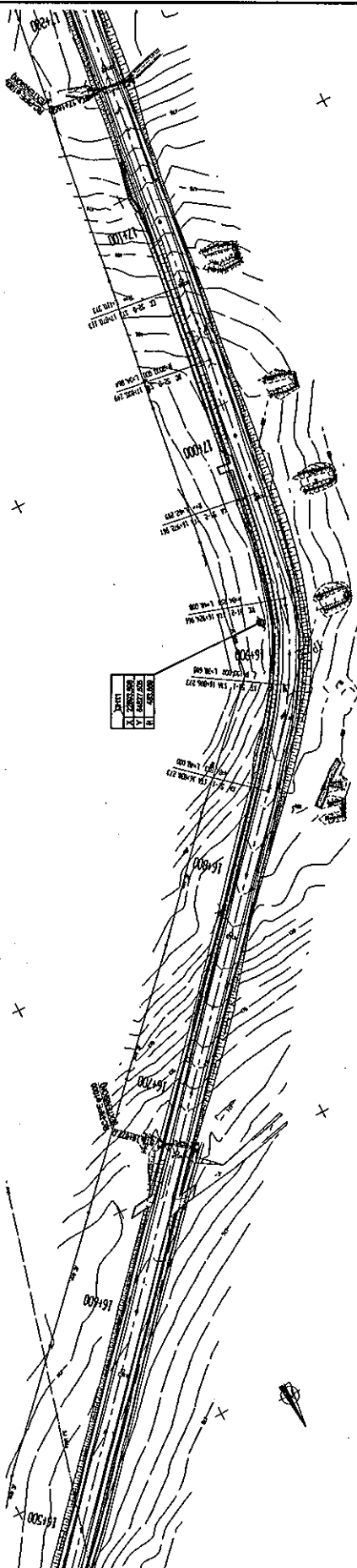
**JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL**

**TITLE: PLAN AND PROFILE  
OF MAIN ROUTE  
(STA. 15+840 - STA. 16+500)**

**SCALE: H=1:1000  
V=1:200**

**DRAWING NO: PL-25**

**REV.**



VERTICAL ALIGNMENT	PAVEMENT LEVELS	SURFACE LEVELS	PEGGED CHAINAGE	HORIZONTAL CURVATURE	SUPER-ELEVATION	WIDENING	CROSS SECTION TYPE
477.300	476.33	476.31	475.956				
490	476.08	476.06	475.595				
1500	475.61	475.61	475.031				
1600	475.33	475.33	475.748				
1620	475.09	475.09	475.466				
1640	474.75	474.75	475.184				
1660	474.54	474.54	474.961				
1680	474.70	475.146	474.620				
1700	475.38	475.800	475.800				
1720	476.42	476.863	476.863				
1740	477.53	477.985	477.985				
1760	478.64	479.040	479.040				
1780	479.61	479.963	479.963				
1800	480.64	480.736	481.350				
1820	481.62	481.833	481.833				
1840	481.96	482.648	482.750				
1860	482.07	482.750	482.973				
1880	482.59	483.297	482.973				
1900	482.77	483.622	482.973				
1920	482.93	483.883	483.883				
1940	482.93	483.935	483.935				
1960	482.93	483.924	483.924				
1980	482.87	483.738	483.924				
2000	482.75	483.326	483.924				
2020	482.59	482.859	482.859				
2040	482.38	482.689	482.859				
2060	481.42	481.821	481.821				
2080	480.89	481.697	481.821				
2100	480.38	480.728	480.728				
2120	479.94	478.245	478.245				
2140	479.24	477.328	477.328				
2160	478.76	476.574	476.574				

**MINISTRY OF TRANSPORT**  
**REPUBLIC OF TAJIKISTAN**

**BASIC DESIGN ON THE PROJECT FOR**  
**IMPROVEMENT OF DUSTY-NUJNY PYANDZH ROAD**  
**IN REPUBLIC OF TAJIKISTAN**

**JAPAN INTERNATIONAL COOPERATION AGENCY**  
**KATAHIRA & ENGINEERS INTERNATIONAL**

**TITLE: PLAN AND PROFILE OF MAIN ROUTE**  
 (STA. 16+500 - STA. 17+60)

**SCALE: H=1:1000 V=1:200**

**DRAWING NO: PL-26**

TYPE-6-2