

Appendix 9: Outline Design Drawings

PREPARATORY SURVEY
FOR
THE PROJECT FOR THE REHABILITATION
OF
KIZILKALA – BOKHTAR SECTION OF
DUSHANBE – BOKHTAR ROAD

OUTLINE DESIGN DRAWINGS

February 2019

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

CTI ENGINEERING INTERNATIONAL CO., LTD.

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REPUBLIC OF TAJIKISTAN MINISTRY OF TRANSPORT	THE PREPARATORY SURVEY FOR THE PROJECT FOR REHABILITATION OF KIZILKALA-BOKHTAR SECTION OF DUSHANBE-BOKHTAR ROAD IN THE REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE:		PLAN (2)			
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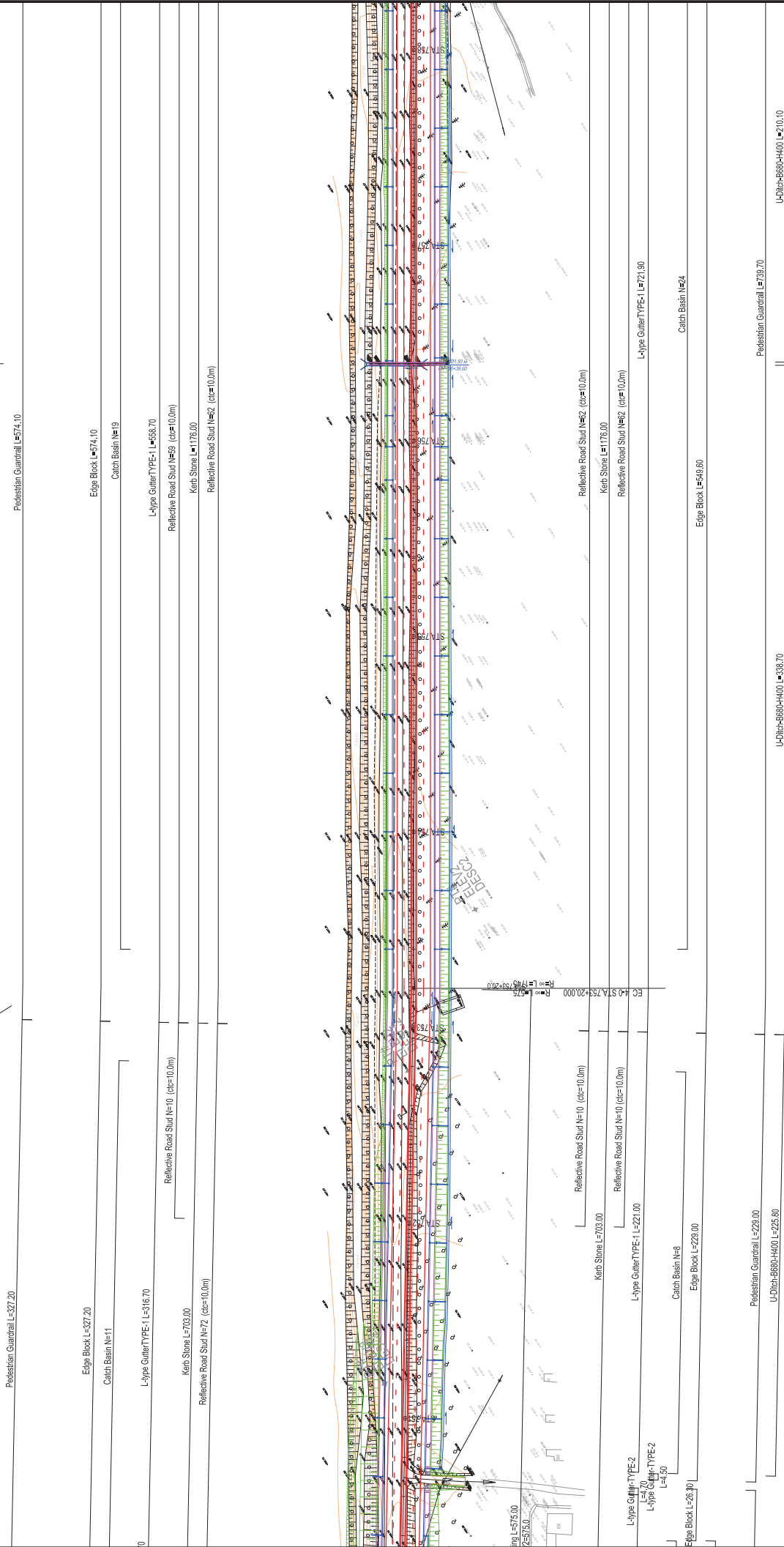
□ 10001-278
No. 1 Siphon Type Box Culvert
For Irrigation



REPUBLIC OF TAJIKISTAN MINISTRY OF TRANSPORT	THE PREPARATORY SURVEY FOR THE PROJECT FOR REHABILITATION OF KIZILKALA-BOKHTAR SECTION OF DUSHANBE-BOKHTAR ROAD IN THE REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE: PLAN (3)				CHECKED	APPROVED	SCALE (A1 SIZE)	DATE	DRAWING NO.	SHEET NO.
									1:1000		PL-03	3/13

PLAN (4)

NOT FOR CONSTRUCTION
010001-2301



NOTE: ALL DIMENSIONS ARE IN METER, UNLESS OTHERWISE MENTIONED.

REPUBLIC OF TAJIKISTAN MINISTRY OF TRANSPORT	THE PREPARATORY SURVEY FOR THE PROJECT FOR REHABILITATION OF KIZILKALA-BOKHTAR SECTION OF DUSHANBE-BOKHTAR ROAD IN THE REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE: PLAN (4)	CHECKED		APPROVED	SCALE (A1 SIZE) 1:1000	DATE	DRAWING NO.	SHEET NO.

PLAN (5)

□ 10001-28.0
For Irrigation
No. 2 Siphon Type Box Culvert

□ 170001-2870
For Irrigation
No. 3 Siphon Type Box Culvert

U-Ditch-B1100-H800 L=34.50

Pedestrian Guardrail L=595.80

Edge Block L=595.80

Catch Basin N=20

L-type Gutter-TYPE-2
L=4.60

L-type Gutter-TYPE-2

L-type GutterTYPE-1 L=568,80

L-type Gutter-TYP l=12.70

Kerb Stone L=1176,00

Reflective Road Stud N=62 (ctc=10.0m)

Reflective Road Stud N=62 (ctc=10.0m)

L-type GutterTYPE-1 L=721.90

L-type GutterTYPE-1 L=394.10

$$\frac{\text{L-type Gutter-Type-2}}{\text{L-type Gutter-Type-1}} = 4.70$$
L=4.70
L-type Gutter-TYPE-2

Catch Basin N=24

Edge Block L=1404.00

Edge Block L=1404.00

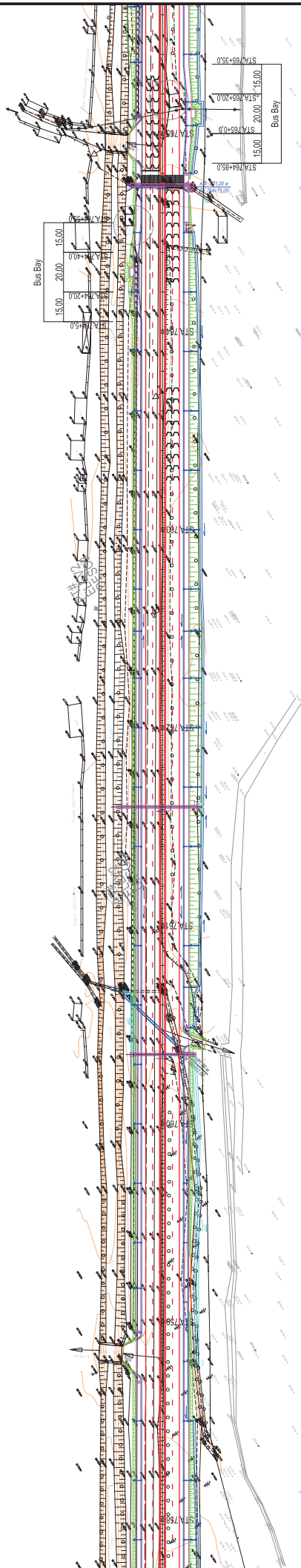
U-Ditch with Cover B300-H600 L=150.00

Pedestrian Guardrail I = 739 70

Pedestrian Guardrail = 788 10

U-Ditch-B680-H400 L=111.90

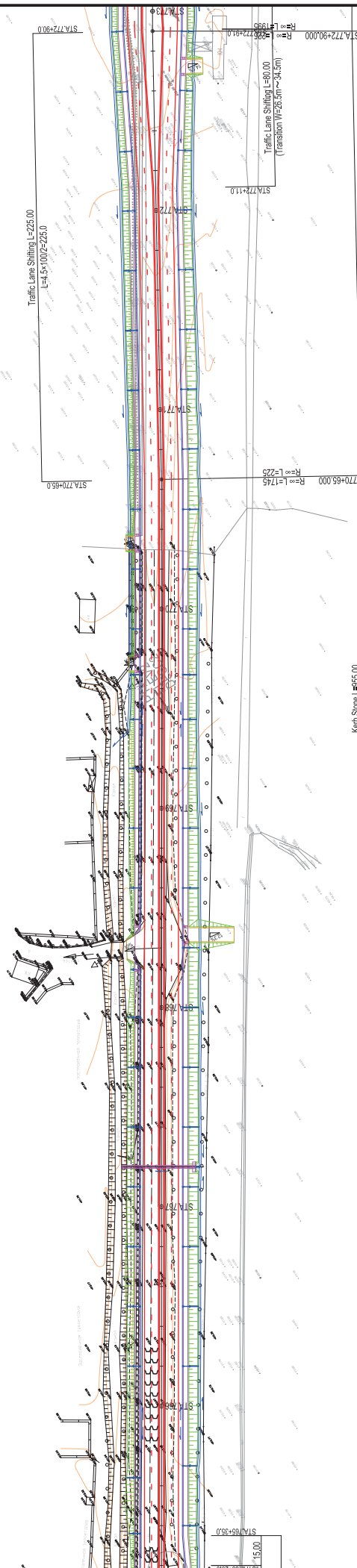
U-Ditch-B680-H400 L=290.00



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REPUBLIC OF TAJIKISTAN MINISTRY OF TRANSPORT	THE PREPARATORY SURVEY FOR THE PROJECT FOR REHABILITATION OF KIZILKALA-BOKHTAR SECTION OF DUSHANBE-BOKHTAR ROAD IN THE REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE: PLAN (5)	CHECKED	APPROVED	SCALE (A1 SIZE) 1:1000	DATE	DRAWING NO. PL-05	SHEET NO. 5/3
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No. 4 Cross Drainage Box Culvert
100001-37.0



REPUBLIC OF TAJIKISTAN MINISTRY OF TRANSPORT	THE PREPARATORY SURVEY FOR THE PROJECT FOR REHABILITATION OF KIZILKALA-BOKHTAR SECTION OF DUSHANBE-BOKHTAR ROAD IN THE REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE: PLAN (6)		SHEET NO. 6/13
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			DATE	SCALE 1:1000	DRAWING NO. PL-06

NOTE: ALL DIMENSIONS ARE IN METER, UNLESS OTHERWISE MENTIONED.

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REPUBLIC OF TAJIKISTAN MINISTRY OF TRANSPORT	THE PREPARATORY SURVEY FOR THE PROJECT FOR REHABILITATION OF KIZILKALA-BOKHTAR SECTION OF DUSHANBE-BOKHTAR ROAD IN THE REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE: PLAN (7)		CHECKED	APPROVED	SCALE (AT SIZE) 1:1000	DATE	DRAWING NO. PL-07	SHEET NO. 7/13
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REPUBLIC OF TAJIKISTAN MINISTRY OF TRANSPORT	THE PREPARATORY SURVEY FOR THE PROJECT FOR REHABILITATION OF KIZILKALA-BOKHTAR SECTION OF DUSHANBE-BOKHTAR ROAD IN THE REPUBLIC OF TAJIKISTAN	TITLE:	PLAN (8)				SHEET NO.	SHEET NO.
		JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.		DATE	SCALE (AT 1:1000)	DRAWING NO.	8/13	
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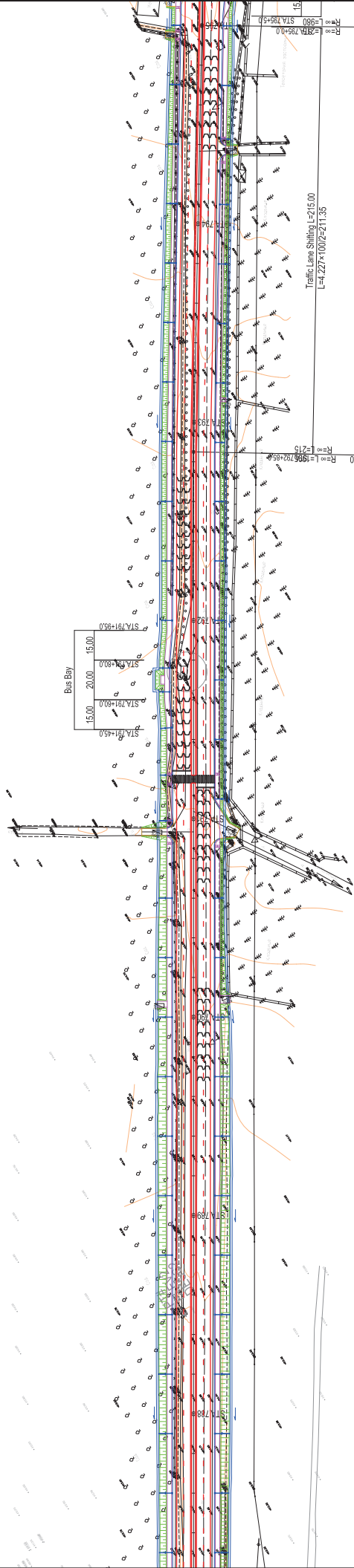
PLAN (9)

Concrete Cover (8880) N=6
Concrete Cover (8880) N=13
Concrete Cover (8880) N=6

Pedestrian Guardrail L=583.50
Pedestrian Guardrail L=398.20
Pedestrian Guardrail L=461.40

Edge Block L=777.00
Catch Basin N=5
Edge Block L=438.70
Catch Basin N=16

L-type Gutter TYPE-1 L=653.40
L-type Gutter TYPE-2 L=470
L-type Gutter TYPE-1 L=470
L-type Gutter TYPE-2 L=470
Kerb Stone L=653.00
Kerb Stone L=468.00



L-type Gutter TYPE-1 L=425.70
L-type Gutter TYPE-2 L=17.20
Catch Basin N=14
Edge Block L=441.00
Kerb Stone L=425.00
Kerb Stone L=468.00
L-type Gutter TYPE-2 L=303.80
L-type Gutter TYPE-2 L=4.50
L-type Gutter TYPE-2 L=4.50
Catch Basin N=11
Edge Block L=330.20

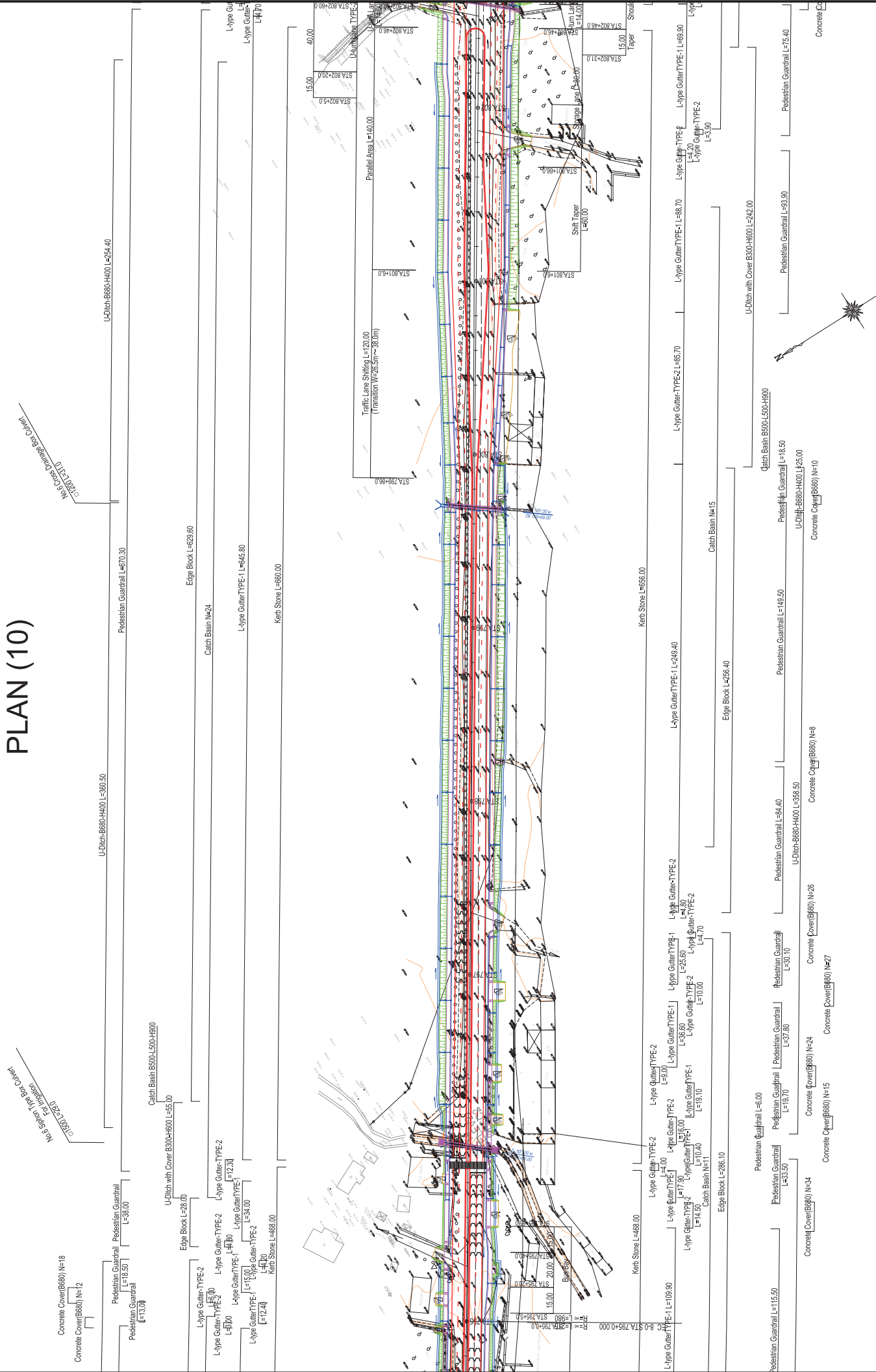
Pedestrian Guardrail L=357.90
Pedestrian Guardrail L=79.10
Pedestrian Guardrail L=205.50
Pedestrian Guardrail L=122.70
Pedestrian Guardrail L=11

Concrete Cover (8880) N=14
Concrete Cover (8880) N=12

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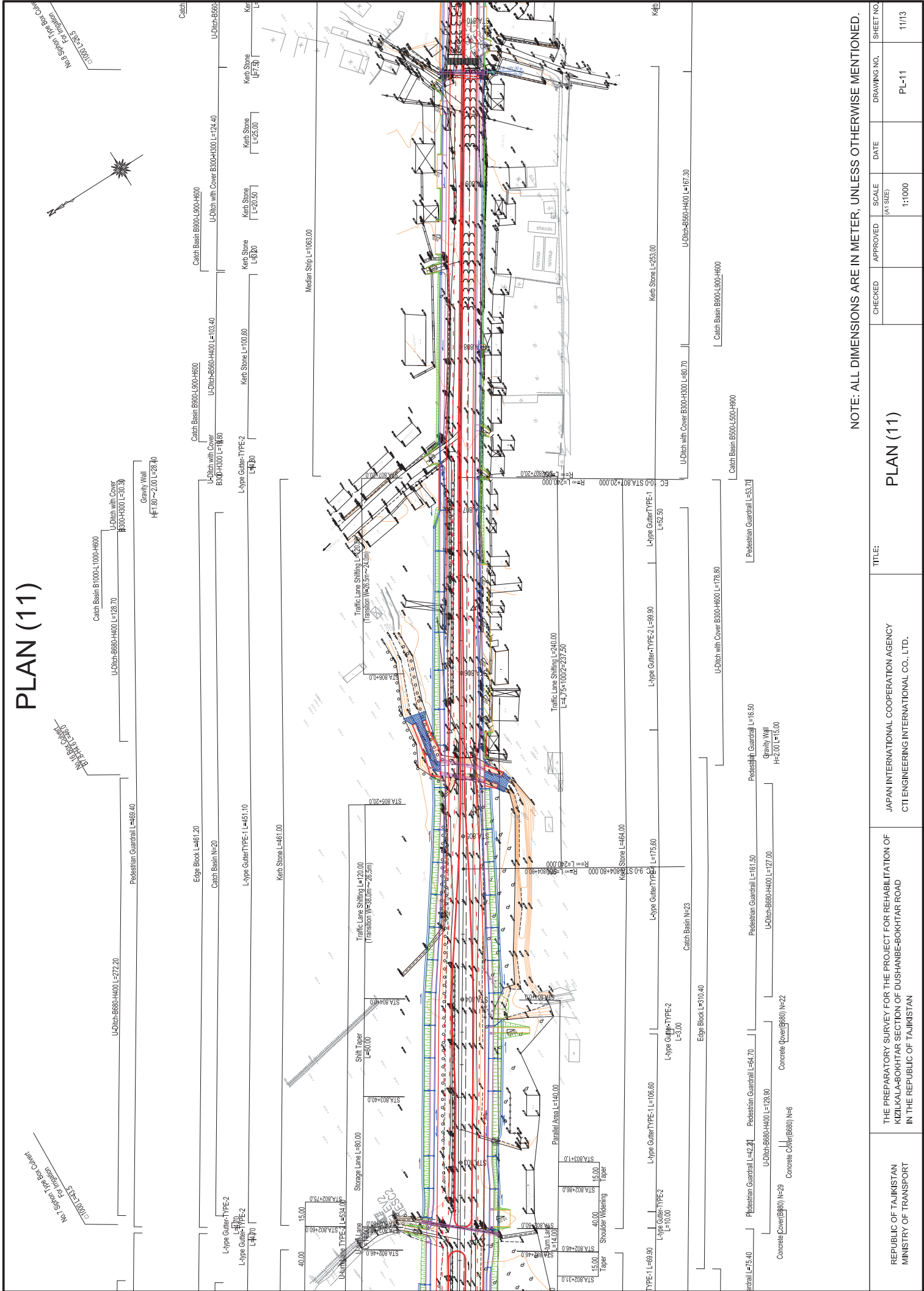
PLAN (10)



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REPUBLIC OF TAJIKISTAN MINISTRY OF TRANSPORT	THE PREPARATORY SURVEY FOR THE PROJECT FOR REHABILITATION OF KIZILKALA-BOKHTAR SECTION OF DUSHANBE-BOKHTAR ROAD IN THE REPUBLIC OF TAJIKISTAN	TITLE: PLAN (10)	CHECKED	APPROVED	SCALE (A1 SIZE) 1:1000	DATE	DRAWING NO. PL-10	SHEET NO. 10/13

PLAN (11)



NOTE: ALL DIMENSIONS ARE IN METER, UNLESS OTHERWISE MENTIONED.

REPUBLIC OF TAJIKISTAN MINISTRY OF TRANSPORT	THE PREPARATORY SURVEY FOR THE PROJECT FOR REHABILITATION OF KIZILKALA-BOKHTAR SECTION OF DUSHANBE-BOKHTAR ROAD IN THE REPUBLIC OF TAJIKISTAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE: PLAN (11)	CHECKED	APPROVED	SCALE (A1 SIZE) 1:1000	DATE	DRAWING NO. PL-11	SHEET NO. 11/13