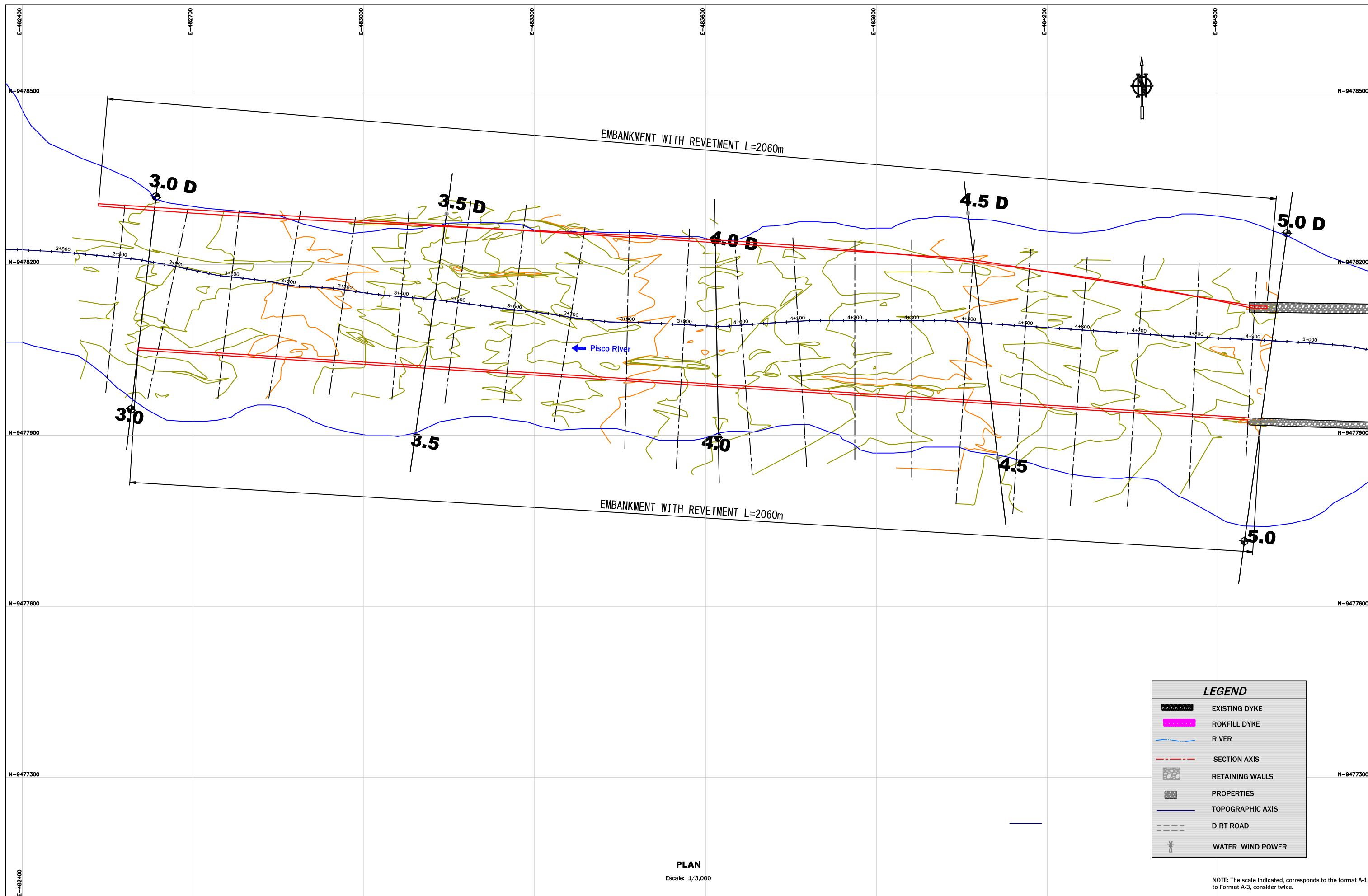


3. Pisco River

Index of Drawings

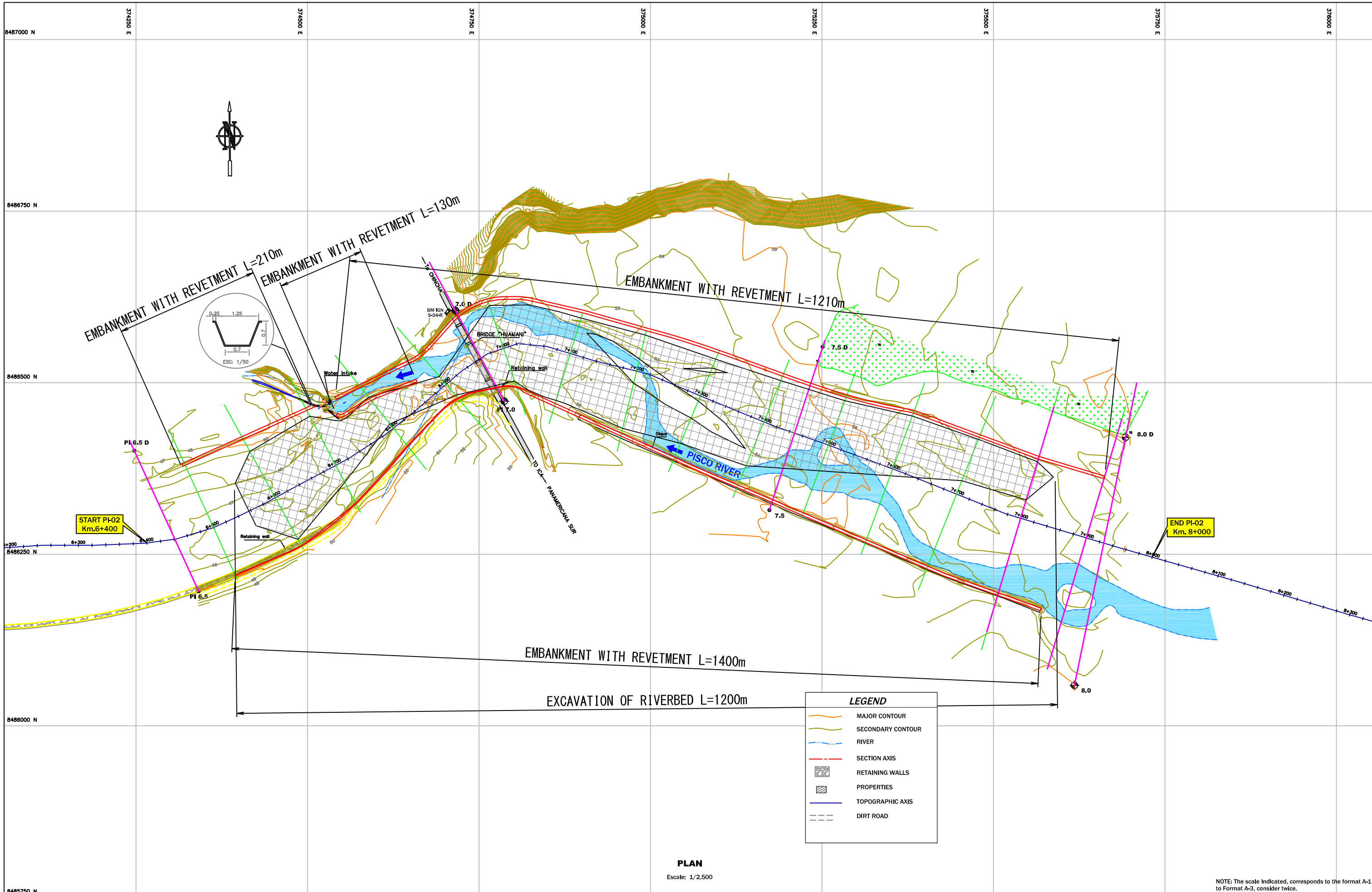
Name of river : Rio Pisco	
No.	Drawing name
1.	Rio Pisco PI-1 Ground Plan Km.2+900~Km.5+000
2.	Rio Pisco PI-2 Ground Plan Km.6+400~Km.8+000
3.	Rio Pisco PI-3 Ground Plan Km.12+400~Km.13+900
4.	Rio Pisco PI-4 Ground Plan Km.0+000~Km.1+144
5.	Rio Pisco PI-5 Ground Plan Km.0+000~Km.0+600
6.	Rio Pisco PI-5 Ground Plan Km.0+600~Km.1+000
7.	Rio Pisco PI-6 Ground Plan Km.34+500~Km.35+700
8.	Rio Pisco PI-6 Ground Plan Km.35+700~Km.36+500
9.	Rio Pisco PI-1 Longitudinal Section Profile Km.2+900~Km.3+700
10.	Rio Pisco PI-1 Longitudinal Section Profile Km.3+800~Km.5+000
11.	Rio Pisco PI-2 Longitudinal Section Profile Km.6+500~Km.7+900
12.	Rio Pisco PI-3 Longitudinal Section Profile Km.12+400~Km.13+700
13.	Rio Pisco PI-3 Longitudinal Section Profile Km.13+700~Km.14+900
14.	Rio Pisco PI-4 Longitudinal Section Profile Km.0+000~Km.1+000
15.	Rio Pisco PI-5 Longitudinal Section Profile Km.25+900~Km.26+900
16.	Rio Pisco PI-6 Longitudinal Section Profile Km.34+500~Km.35+500
17.	Rio Pisco PI-6 Longitudinal Section Profile Km.35+500~Km.36+400
18.	Rio Pisco Embankment Typical Cross Section
19.	Rio Pisco PI-1 Cross Section Km.3+000~Km.3+400
20.	Rio Pisco PI-1 Cross Section Km.3+500~Km.3+900
21.	Rio Pisco PI-1 Cross Section Km.4+000~Km.4+400
22.	Rio Pisco PI-1 Cross Section Km.4+400~Km.4+900
23.	Rio Pisco PI-2 Cross Section Km.6+500~Km.7+000
24.	Rio Pisco PI-2 Cross Section Km.7+100~Km.7+900
25.	Rio Pisco PI-3 Cross Section Km.12+400~Km.13+900
26.	Rio Pisco PI-4 Cross Section Km.0+000~Km.1+000
27.	Rio Pisco PI-5 Cross Section Km.25+900~Km.26+400
28.	Rio Pisco PI-5 Cross Section Km.26+500~Km.26+700
29.	Rio Pisco PI-5 Cross Section Km.26+800~Km.26+900
30.	Rio Pisco PI-6 Cross Section Km.34+500~Km.35+600
31.	Rio Pisco PI-6 Cross Section Km.35+700~Km.36+300
32.	Rio Pisco PI-6 Cross Section Km.35+400~Km.36+500



PLAN
Scale: 1/3,000

LEGEND	
	EXISTING DYKE
	ROKFILL DYKE
	RIVER
	SECTION AXIS
	RETAINING WALLS
	PROPERTIES
	TOPOGRAPHIC AXIS
	DIRT ROAD
	WATER WIND POWER

NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.

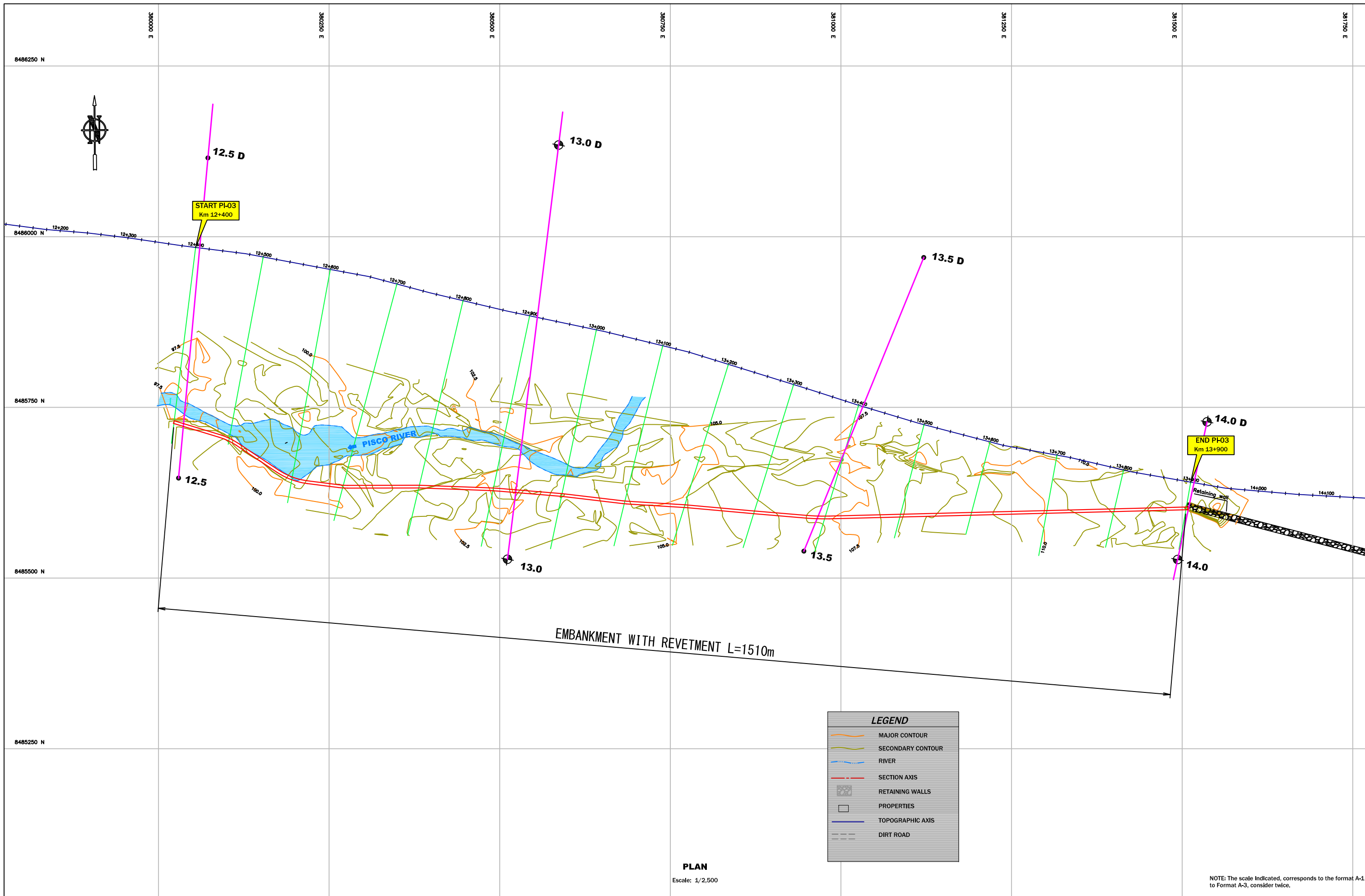


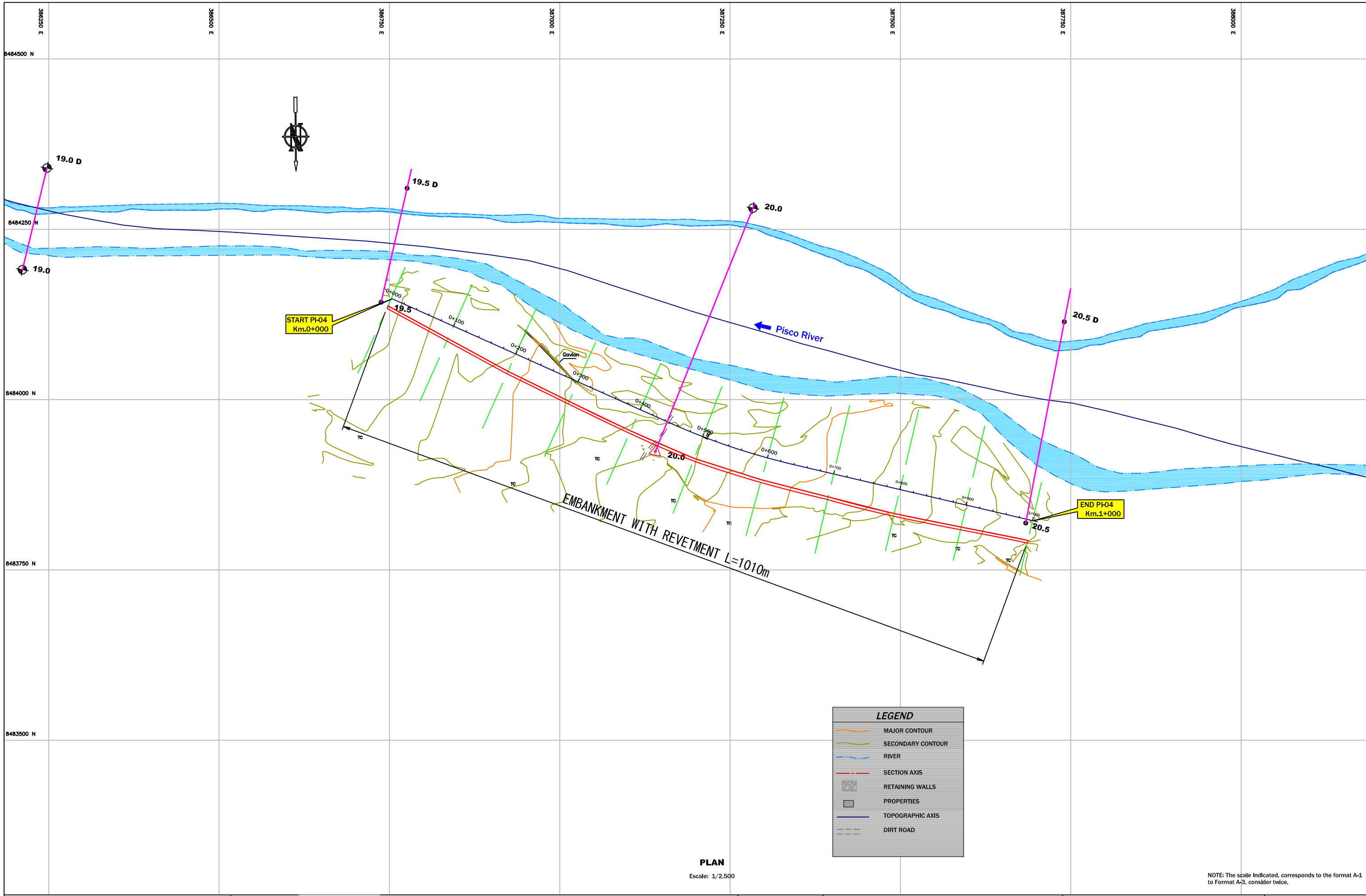
LEGEND

	MAJOR CONTOUR
	SECONDARY CONTOUR
	RIVER
	SECTION AXIS
	RETAINING WALLS
	PROPERTIES
	TOPOGRAPHIC AXIS
	DIRT ROAD

PLAN
Scale: 1/2,500

NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.

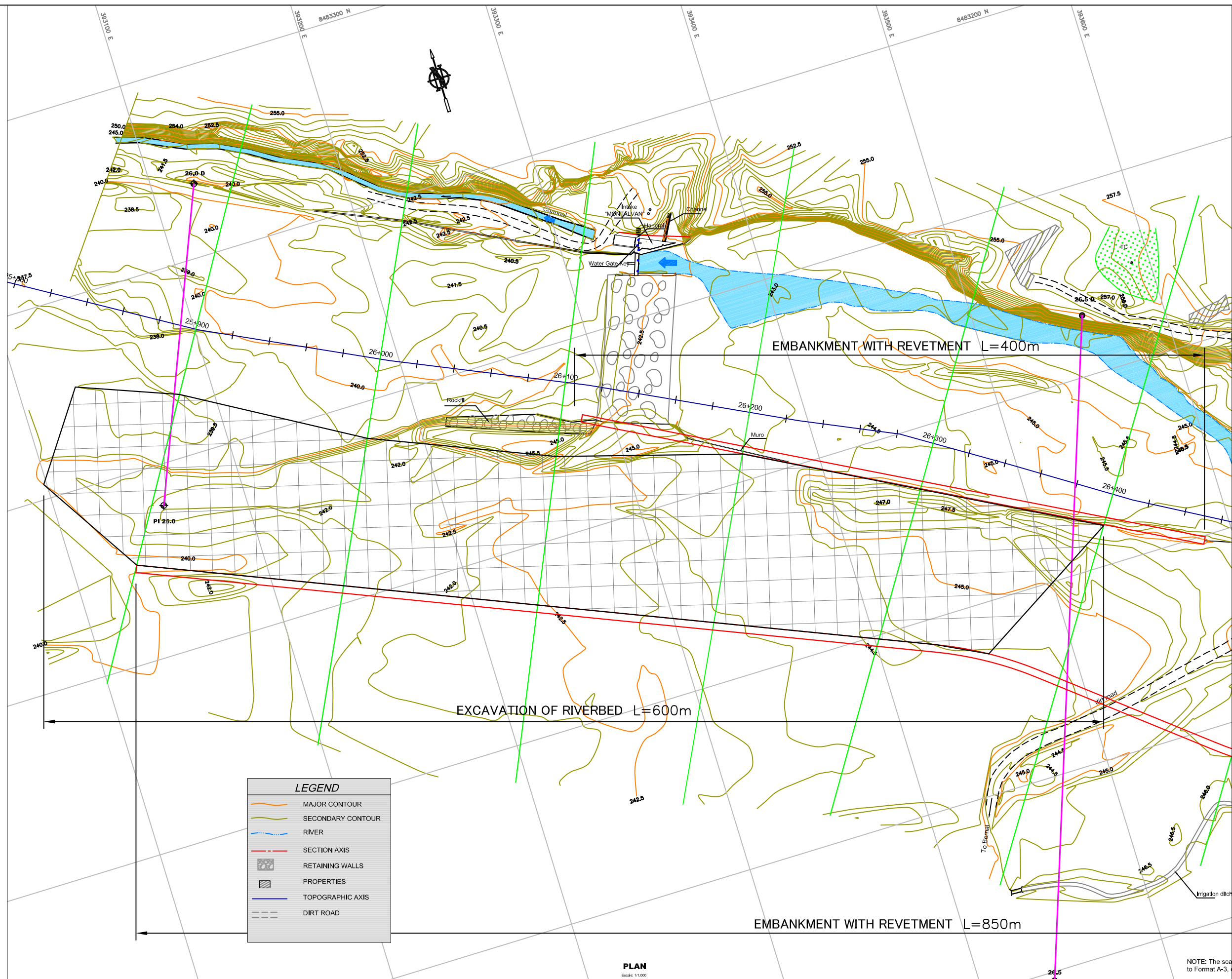




LEGEND	
	MAJOR CONTOUR
	SECONDARY CONTOUR
	RIVER
	SECTION AXIS
	RETAINING WALLS
	PROPERTIES
	TOPOGRAPHIC AXIS
	DIRT ROAD

PLAN
Escale: 1/2,500

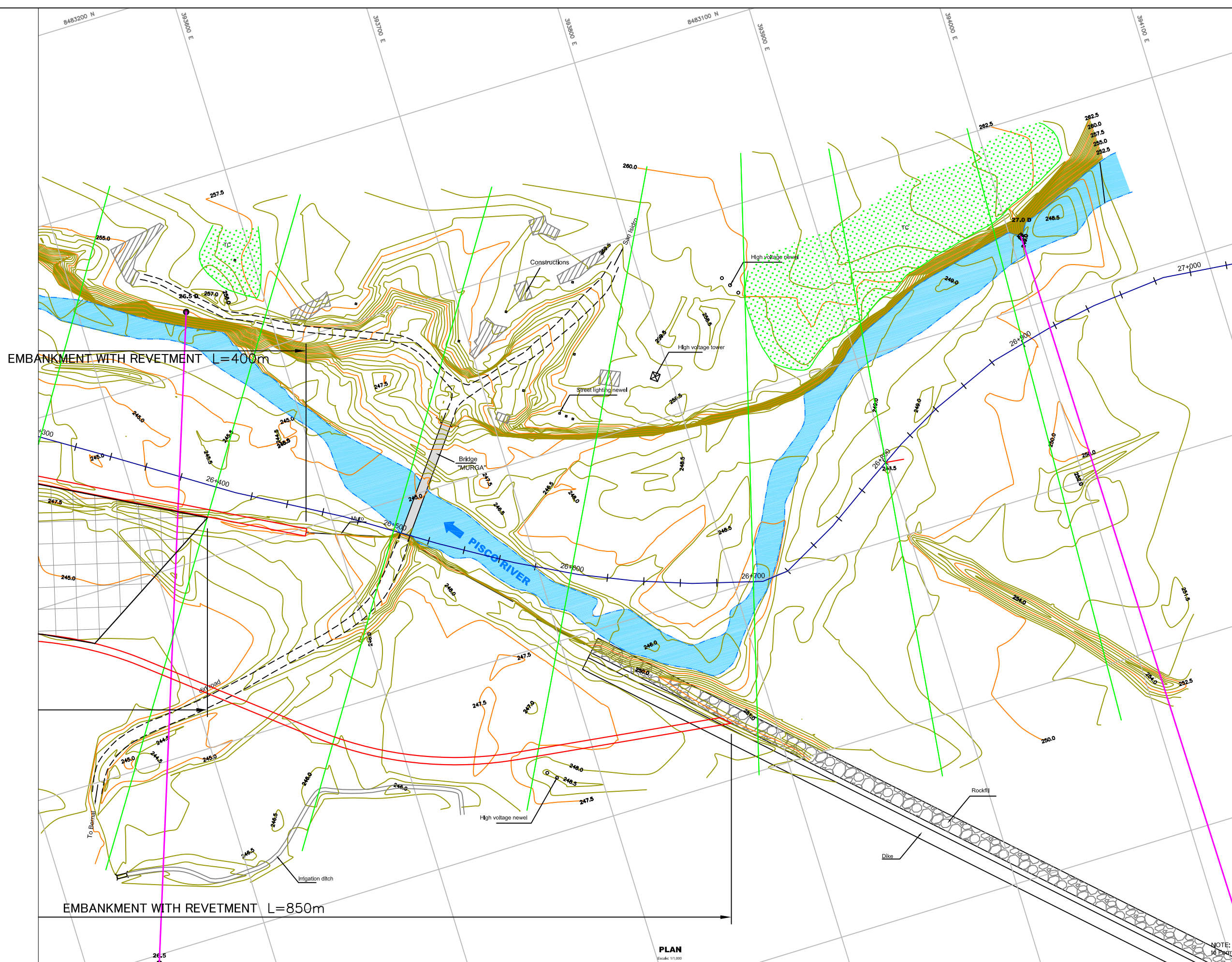
NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.



LEGEND	
	MAJOR CONTOUR
	SECONDARY CONTOUR
	RIVER
	SECTION AXIS
	RETAINING WALLS
	PROPERTIES
	TOPOGRAPHIC AXIS
	DIRT ROAD

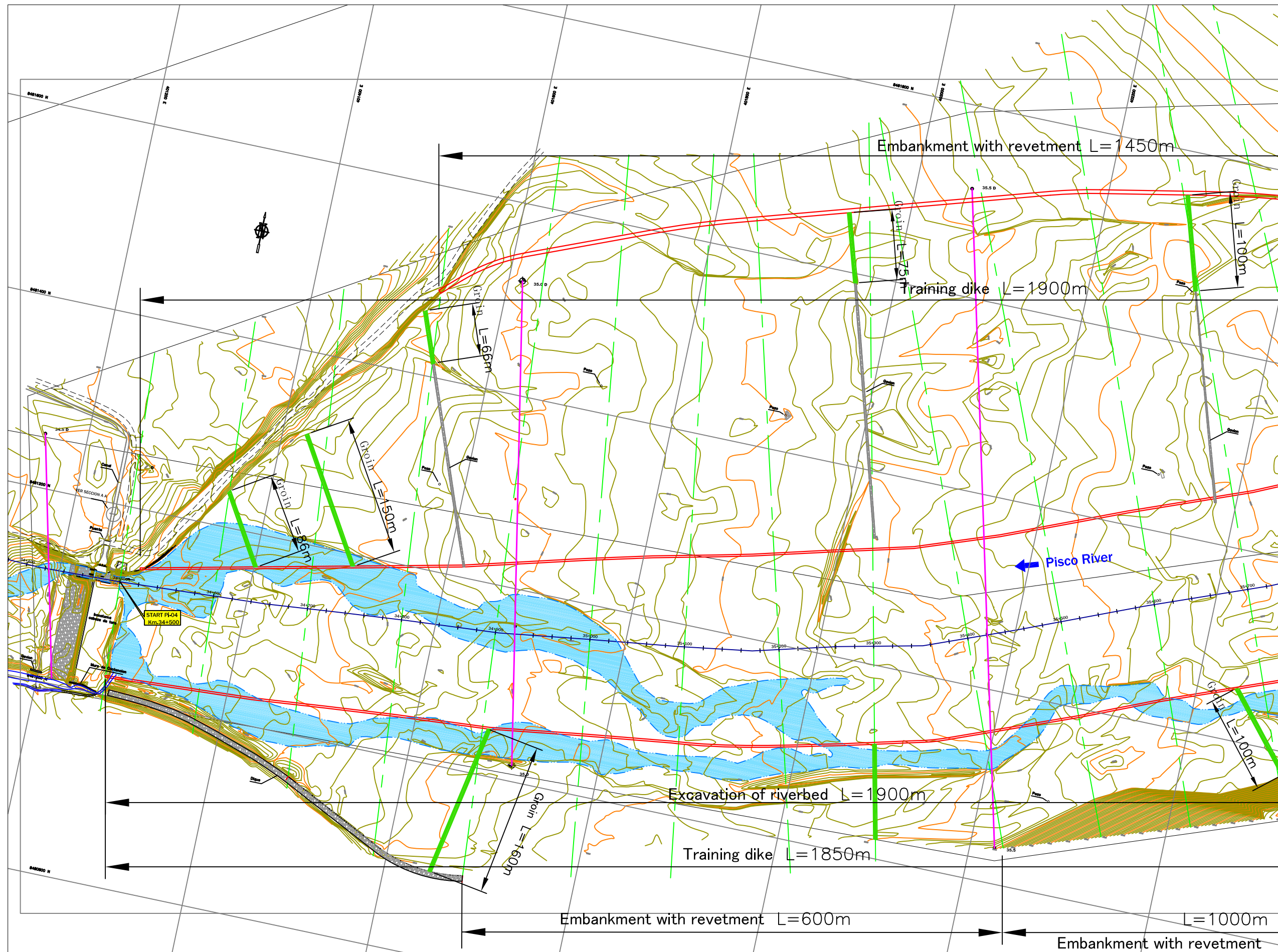
PLAN
Scale: 1:10,000

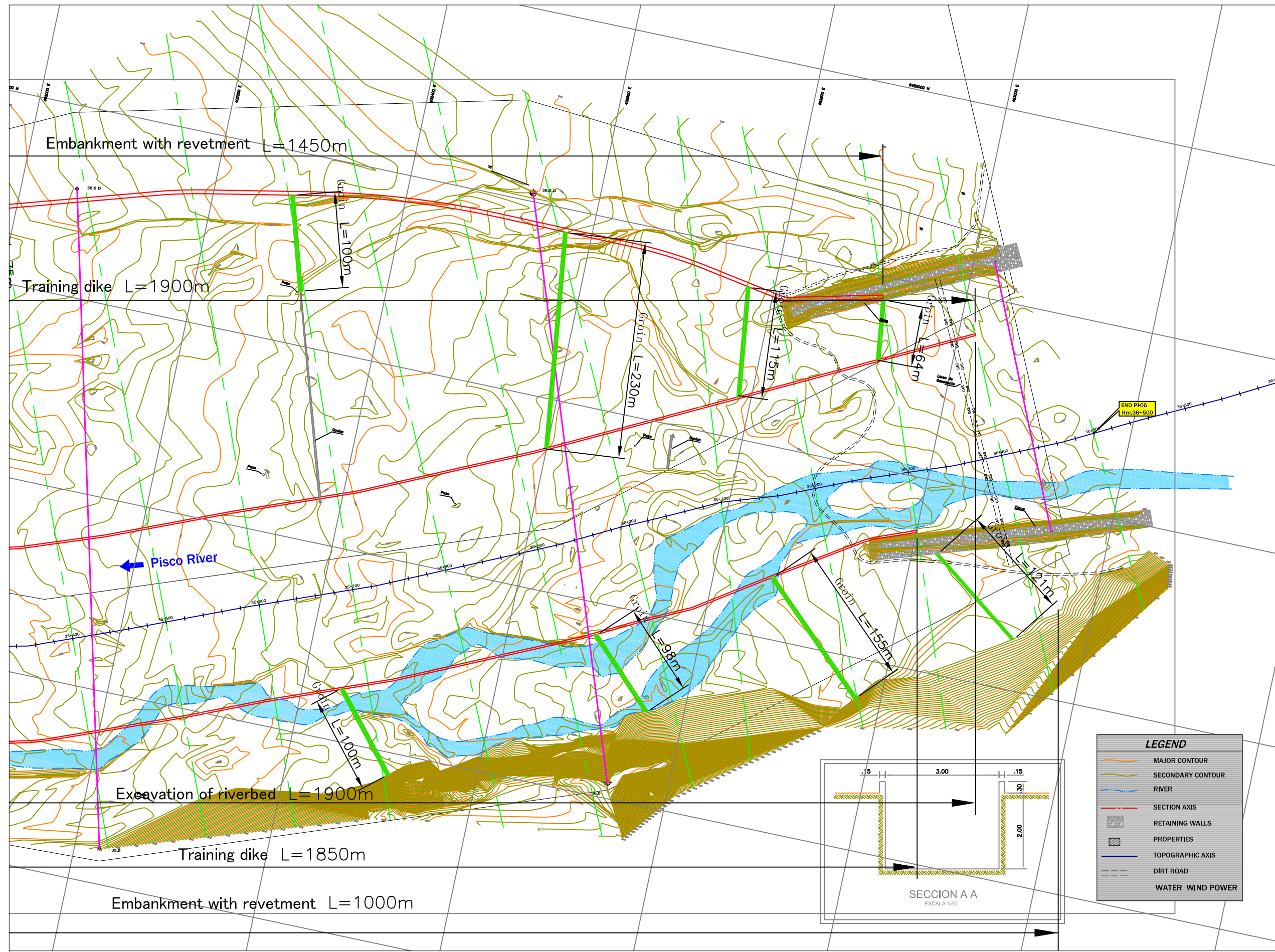
NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.



PLAN
Scale: 1:1000

NOTE: The scale indicated, corresponds to the format A-1 to format A-3, consider twice.





LEGEND

- MAJOR CONTOUR
- SECONDARY CONTOUR
- RIVER
- SECTION AXIS
- RETAINING WALLS
- PROPERTIES
- TOPOGRAPHIC AXIS
- DIRT ROAD
- WATER WIND POWER

1:100 0 1 2 3 4 5 6 7 8 9 10

1:150 0 1 2 3 4 5 6 7 8 9 10

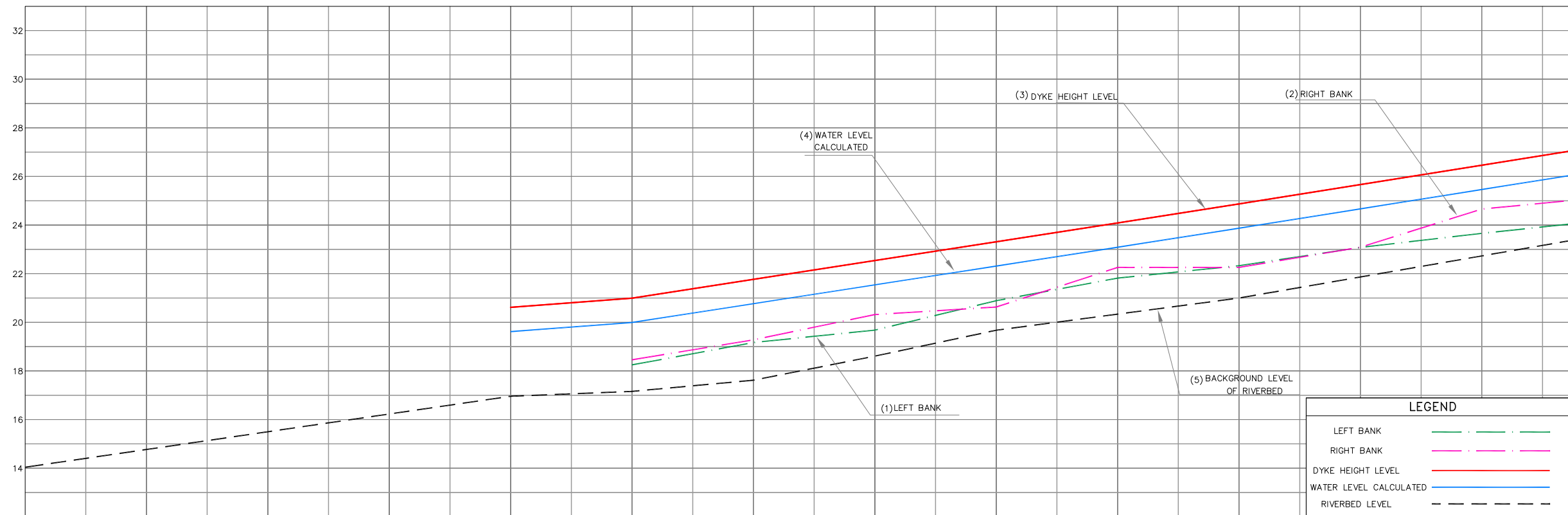
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



DISTANCE (m)	2+500	2+600	2+700	2+800	2+900	3+000	3+100	3+200	3+300	3+400	3+500	3+600	3+700
(1) LEFT BANK LEVEL						18.25	19.17	19.68	20.89	21.82	22.33	23.08	23.66
(2) RIGHT BANK LEVEL						18.46	19.28	20.32	20.63	22.26	22.26	23.09	24.66
(3) DYKE HEIGHT LEVEL					20.62	20.99	21.77	22.54	23.31	24.09	24.87	25.67	26.46
(4) WATER LEVEL CALCULATED					19.62	19.99	20.77	21.54	22.31	23.09	23.87	24.67	25.46
(5) BACKGROUND LEVEL OF RIVERBED	14.04	14.77	15.50	16.23	16.96	17.16	17.62	18.61	19.68	20.34	21.00	21.87	22.73

**PISCO RIVER
CRITICAL POINT N° 1 (1/2)
LONGITUDINAL PROFILE**

NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.

1:100 0 1 2 3 4 5 6 7 8 9 10

1:150 0 1 2 3 4 5 6 7 8 9 10

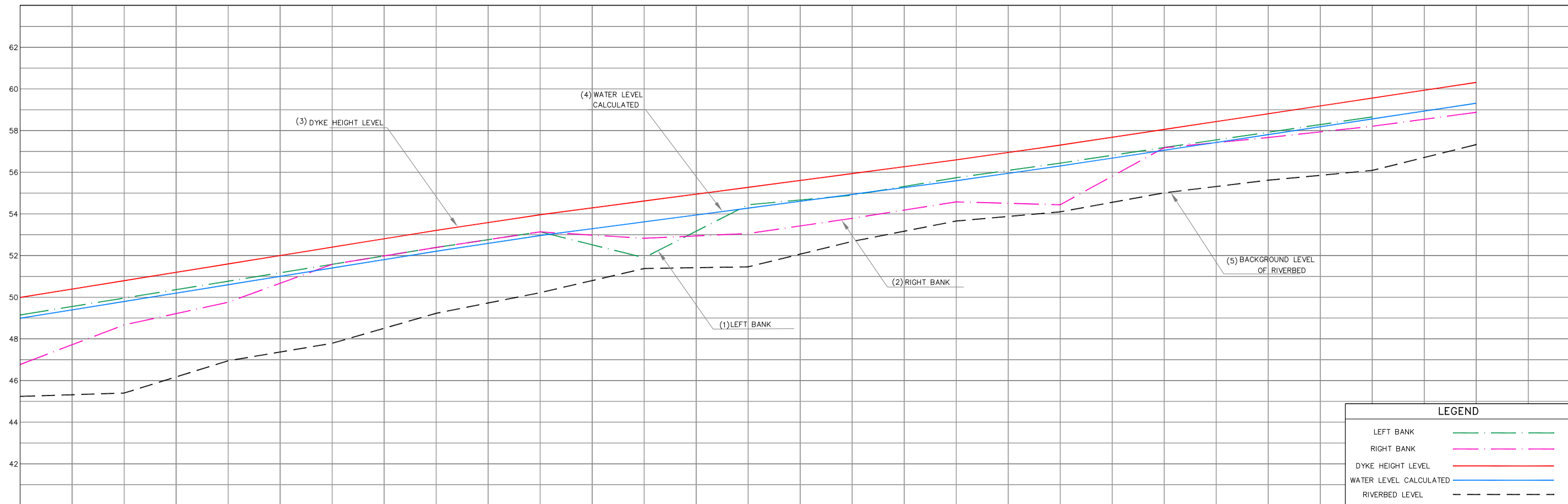
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



LEGEND	
LEFT BANK	
RIGHT BANK	
DYKE HEIGHT LEVEL	
WATER LEVEL CALCULATED	
RIVERBED LEVEL	

DISTANCE (m)	6+500	6+600	6+700	6+800	6+900	7+000	7+100	7+200	7+300	7+400	7+500	7+600	7+700	7+800	7+900
(1) LEFT BANK LEVEL	49.15	49.96	50.77	51.58	52.39	53.14	51.90	54.44	54.90	55.74	56.44	57.19	57.92	58.66	
(2) RIGHT BANK LEVEL	46.77	48.67	49.76	51.58	52.39	53.14	52.83	53.06	53.79	54.58	54.44	57.18	57.67	58.21	58.88
(3) DYKE HEIGHT LEVEL	49.99	50.80	51.60	52.41	53.21	53.96	54.62	55.28	55.94	56.60	57.30	58.06	58.81	59.56	60.32
(4) WATER LEVEL CALCULATED	48.99	49.80	50.60	51.41	52.21	52.96	53.62	54.28	54.94	55.60	56.30	57.06	57.81	58.56	59.32
(5) BACKGROUND LEVEL OF RIVERBED	45.24	45.40	46.85	47.79	49.23	50.22	51.38	51.46	52.06	52.66	54.10	55.01	55.62	56.18	57.33

**PISCO RIVER
CRITICAL POINT N°2
LONGITUDINAL PROFILE**

NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.



Consultants:



NIPPON KOEI LAC CO., LTD.
Consulting Engineers

Designed by: M.SOYA
Revised by: M.KITANO
Approved by: Y.NAKAGAWA
Revised by: Y.NAKAGAWA

Project:
THE PREPARATORY STUDY ON PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOOD IN THE REPUBLIC OF PERU

Drawing:
**PISCO RIVER:
CRITICAL POINT N°2
LONGITUDINAL PROFILE**

ESCALE: INDICATED
DATE: MARCH - 2013
CODE: **PISCO - 2**

1:100 0 1 2 3 4 5 6 7 8 9 10

1:150 0 1 2 3 4 5 6 7 8 9 10

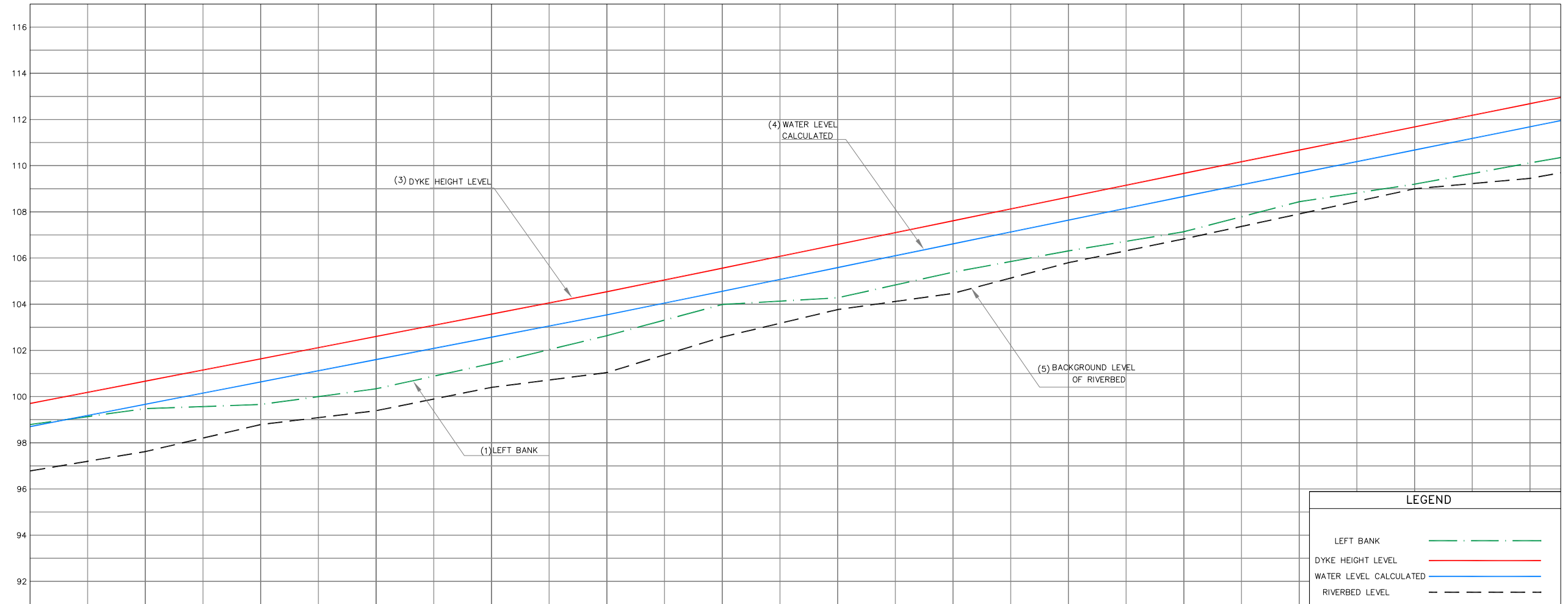
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



LEGEND	
LEFT BANK	— — — — —
DYKE HEIGHT LEVEL	—————
WATER LEVEL CALCULATED	—————
RIVERBED LEVEL	— · — · — · —

DISTANCE (m)	12+400	12+500	12+600	12+700	12+800	12+900	13+000	13+100	13+200	13+300	13+400	13+500	13+600	13+700
(1) LEFT BANK LEVEL	98.79	99.48	99.66	100.34	101.43	102.64	103.99	104.28	105.39	106.31	107.14	108.44	109.20	110.12
(3) DYKE HEIGHT LEVEL	99.70	100.67	101.64	102.60	103.57	104.54	105.56	106.59	107.61	108.64	109.67	110.67	111.68	112.68
(4) WATER LEVEL CALCULATED	98.70	99.67	100.64	101.60	102.57	103.54	104.56	105.59	106.61	107.64	108.67	109.67	110.68	111.68
(5) BACKGROUND LEVEL OF RIVERBED	96.78	97.62	98.79	99.39	100.40	101.04	102.58	103.77	104.47	105.80	106.83	107.91	109.00	109.45

**PISCO RIVER
CRITICAL POINT N°3 (1/2)
LONGITUDINAL PROFILE**

NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.



Consultants:



Designed by: M.SOYA
Revised by: M.KITANO
Approved by: Y.NAKAGAWA
Revised by: Y.NAKAGAWA

Project:
THE PREPARATORY STUDY ON PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOOD IN THE REPUBLIC OF PERU

Drawing:
**PISCO RIVER:
CRITICAL POINT N°3 (1/2)
LONGITUDINAL PROFILE**

ESCALE: INDICATED
DATE: MARCH - 2013
CODE: **PISCO - 3**

1:100 0 1 2 3 4 5 6 7 8 9 10

1:150 0 1 2 3 4 5 6 7 8 9 10

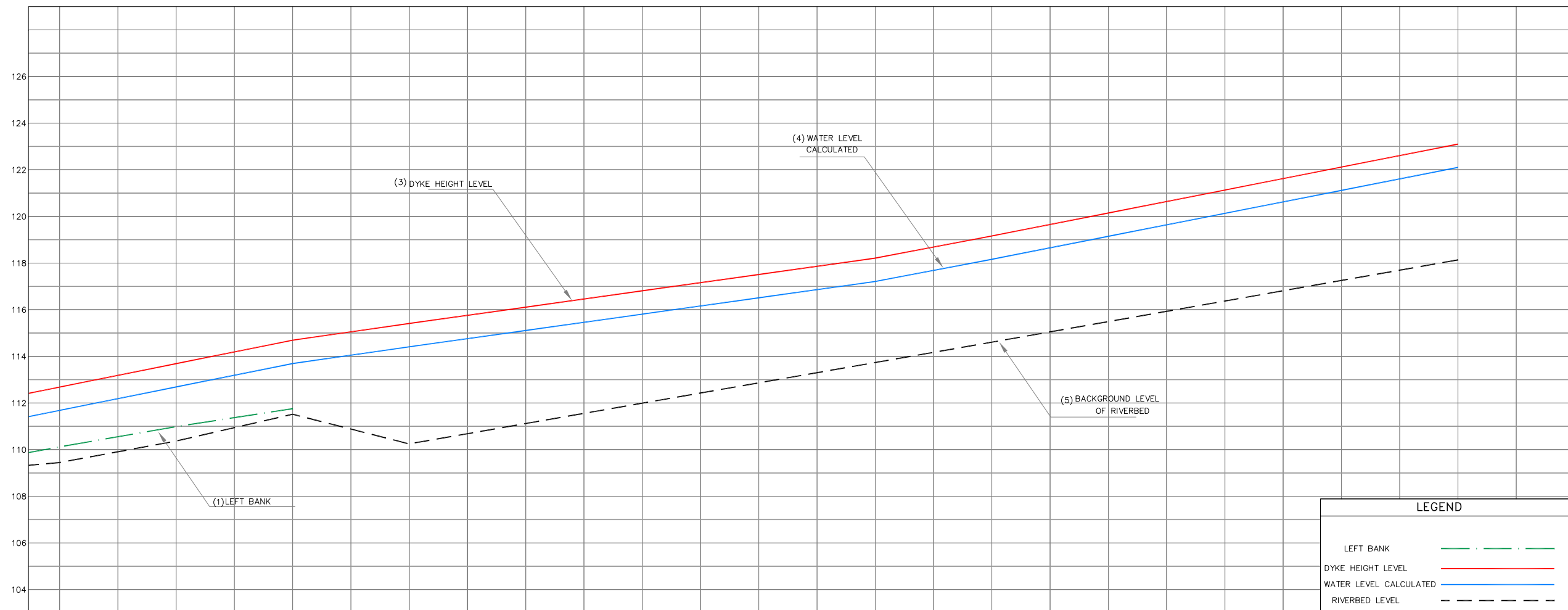
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



DISTANCE (m)	13+700	13+800	13+900	14+000	14+100	14+200	14+300	14+400	14+500	14+600	14+700	14+800	14+900	15+000
(1) LEFT BANK LEVEL	109.45	110.37	111.52	110.25	111.12	111.99	112.87	113.74	114.61	115.49	116.37	117.26	118.14	
(3) DYKE HEIGHT LEVEL	112.68	113.69	114.69	115.41	116.11	116.81	117.51	118.21	118.91	119.61	120.31	121.01	121.71	122.41
(4) WATER LEVEL CALCULATED	111.68	112.69	113.69	114.41	115.11	115.81	116.51	117.21	117.91	118.61	119.31	120.01	120.71	121.41
(5) BACKGROUND LEVEL OF RIVERBED	109.45	110.37	111.52	110.25	111.12	111.99	112.87	113.74	114.61	115.49	116.37	117.26	118.14	

**PISCO RIVER
CRITICAL POINT N° 3 (2/2)
LONGITUDINAL PROFILE**

NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.

1:100 0 1 2 3 4 5 6 7 8 9 10

1:150 0 1 2 3 4 5 6 7 8 9 10

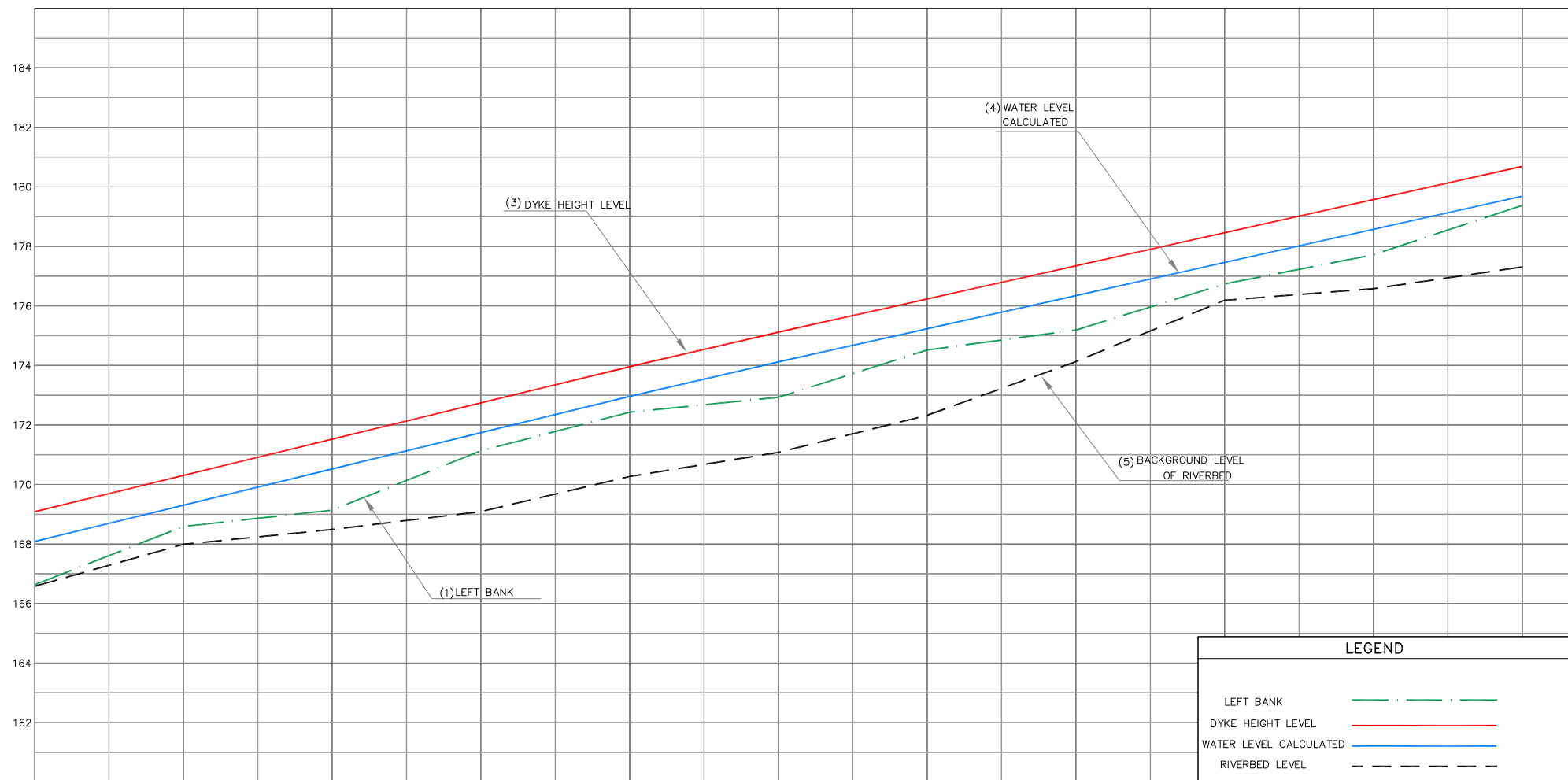
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



LEGEND	
LEFT BANK	---
DYKE HEIGHT LEVEL	—
WATER LEVEL CALCULATED	—
RIVERBED LEVEL	---

DISTANCE (m)	0+000	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	1+000
(1) LEFT BANK LEVEL	166.63	168.59	169.14	171.13	172.43	172.93	174.52	175.19	176.74	177.72	
(3) DYKE HEIGHT LEVEL	169.09	170.30	171.52	172.74	173.96	175.12	176.23	177.35	178.46	179.57	
(4) WATER LEVEL CALCULATED	168.09	169.30	170.52	171.74	172.96	174.12	175.23	176.35	177.46	178.57	
(5) BACKGROUND LEVEL OF RIVERBED	166.58	167.99	168.49	169.09	170.27	171.07	172.33	174.13	176.19	176.56	

**PISCO RIVER
CRITICAL POINT N° 4
LONGITUDINAL PROFILE**

NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.

1:100 0 1 2 3 4 5 6 7 8 9 10

1:150 0 1 2 3 4 5 6 7 8 9 10

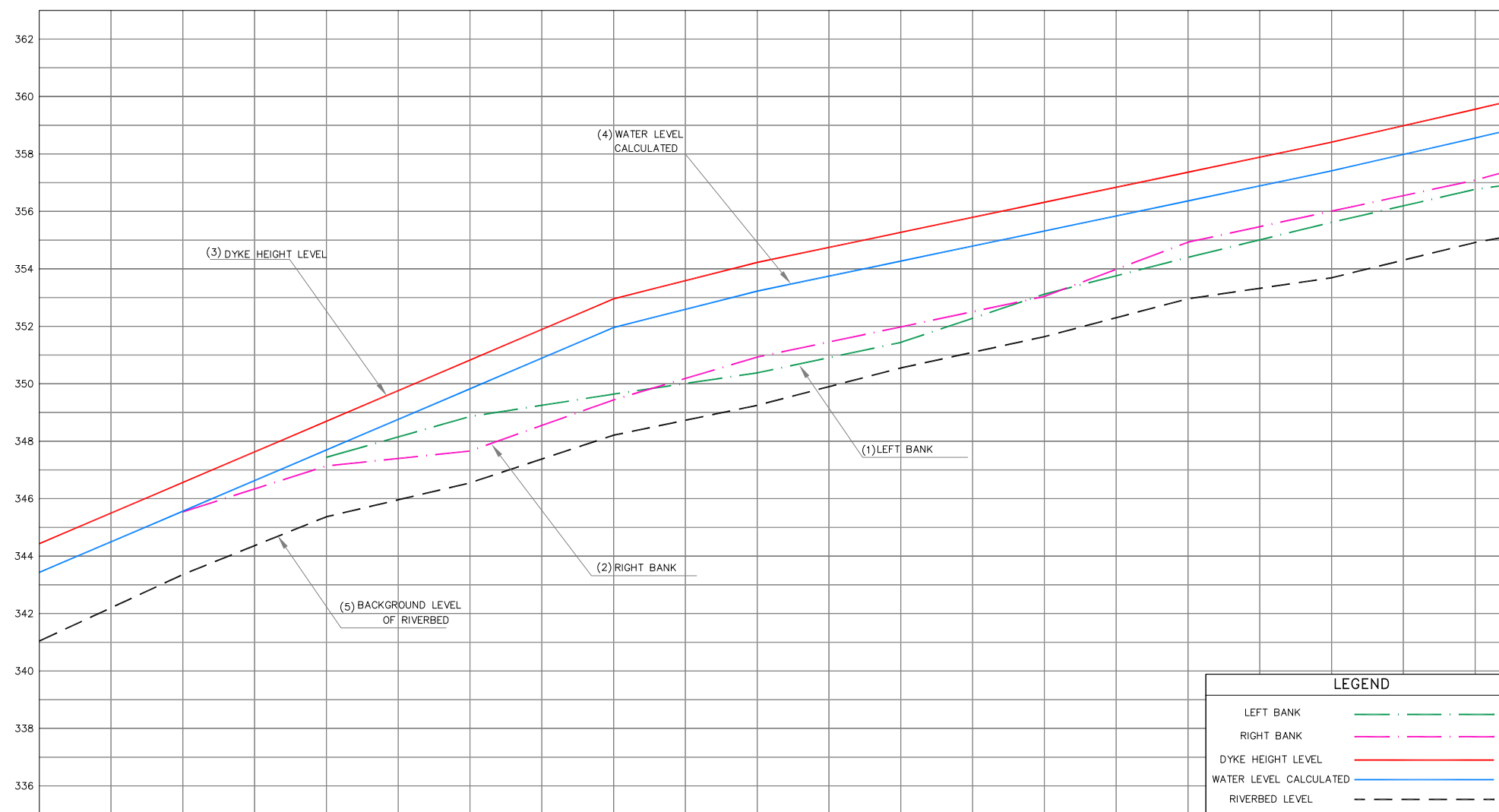
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



DISTANCE (m)	34+500	34+600	34+700	34+800	34+900	35+000	35+100	35+200	35+300	35+400	35+500
(1) LEFT BANK LEVEL											
(2) RIGHT BANK LEVEL		343.36	345.56	346.56	345.54						
(3) DYKE HEIGHT LEVEL	343.36	343.43	344.43								
(4) WATER LEVEL CALCULATED											
(5) BACKGROUND LEVEL OF RIVERBED	341.82										

**PISCO RIVER
CRITICAL POINT N°6 (1/2)
LONGITUDINAL PROFILE**

NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.

1:100 0 1 2 3 4 5 6 7 8 9 10

1:150 0 1 2 3 4 5 6 7 8 9 10

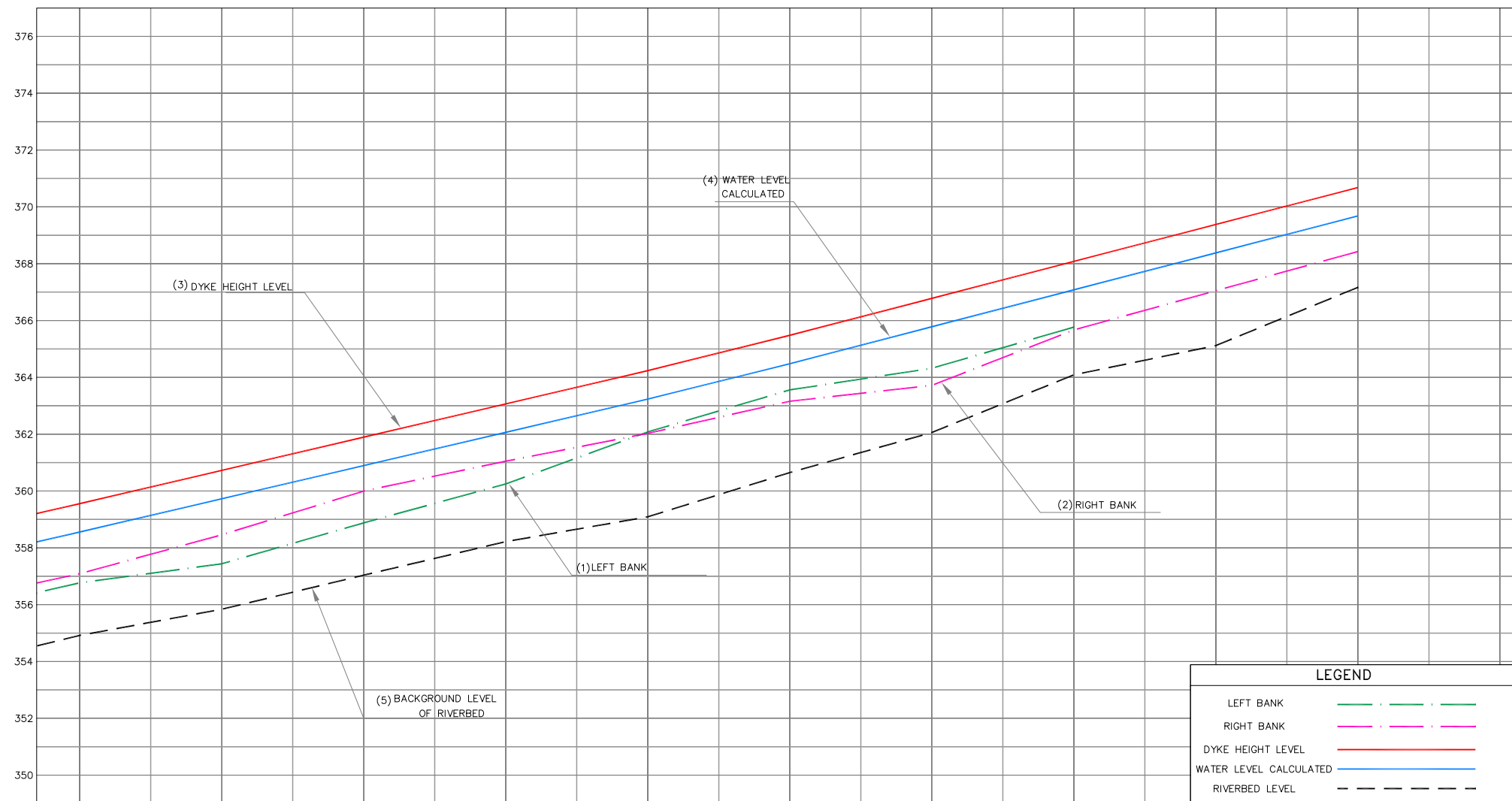
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



DISTANCE (m)	35+500	35+600	35+700	35+800	35+900	36+000	36+100	36+200	36+300	36+400	36+500
(1) LEFT BANK LEVEL	354.92	355.84	357.04	358.22	359.09	360.65	362.86	364.09	365.12	366.17	
(2) RIGHT BANK LEVEL	357.09	358.46	360.00	361.05	362.03	363.16	363.72	365.67	367.05	368.43	
(3) DYKE HEIGHT LEVEL	359.56	360.73	361.90	363.07	364.24	365.48	366.78	368.08	369.38	370.68	
(4) WATER LEVEL CALCULATED	358.56	359.73	360.90	362.07	363.24	364.48	365.78	367.08	368.38	369.68	
(5) BACKGROUND LEVEL OF RIVERBED	354.92	355.84	357.04	358.22	359.09	360.65	362.86	364.09	365.12	366.17	

**PISCO RIVER
CRITICAL POINT N°6 (2/2)
LONGITUDINAL PROFILE**

NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.



Consultants:



Yachiyo Engineering Co., Ltd.



NIPPON KOEI CO., LTD.



NIPPON KOEI LAC CO., LTD.
Consulting Engineers

Designed by: M.SOYA
Revised by: M.KITANO
Approved by: Y.NAKAGAWA
Revised by: Y.NAKAGAWA

Project:

THE PREPARATORY STUDY ON PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOOD IN THE REPUBLIC OF PERU

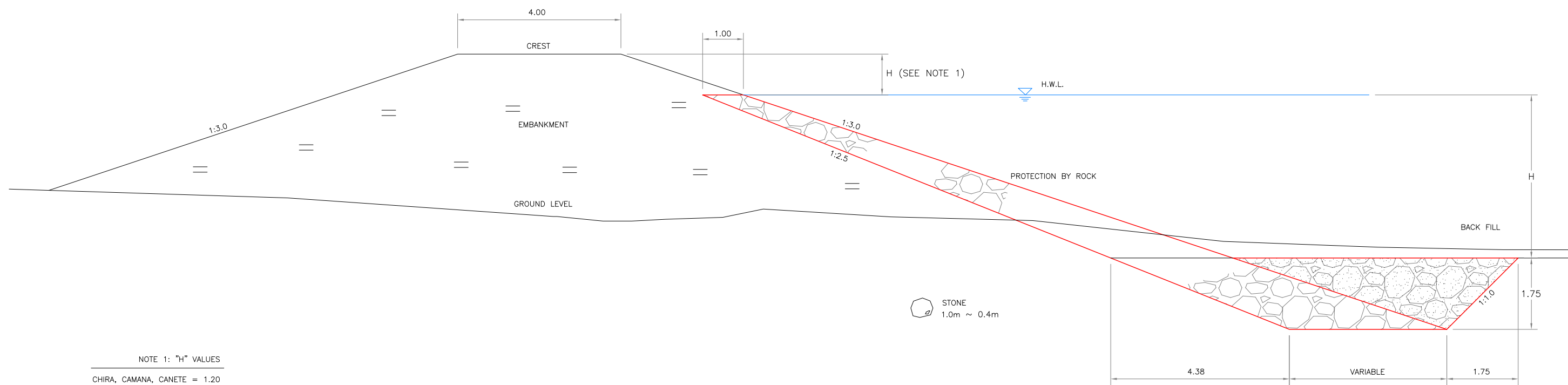
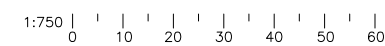
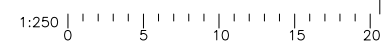
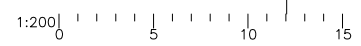
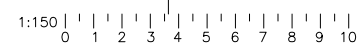
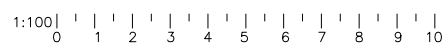
Drawing:

**PISCO RIVER:
CRITICAL POINT N°6 (2/2)
LONGITUDINAL PROFILE**

ESCALE: INDICATED

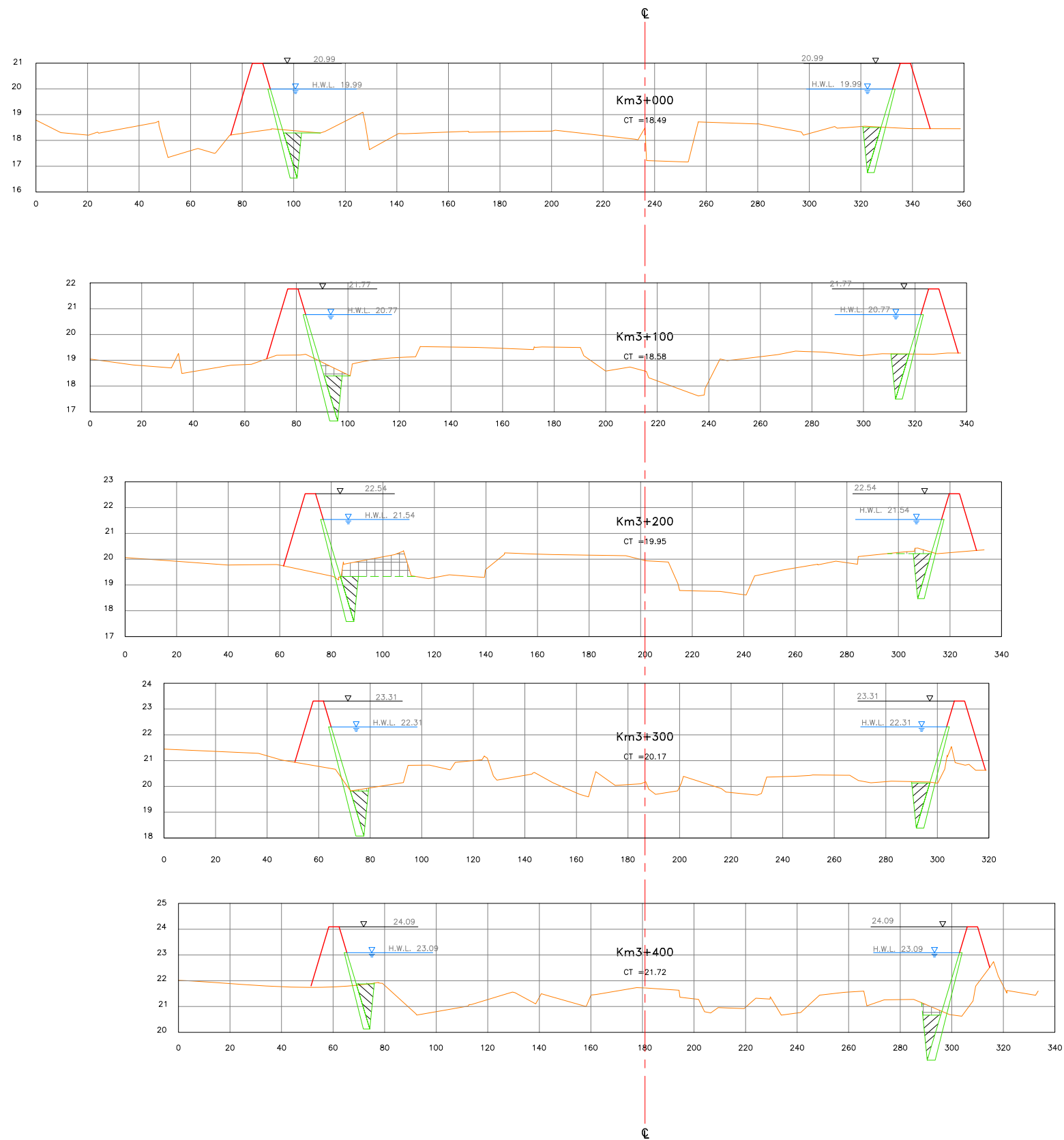
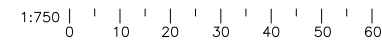
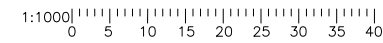
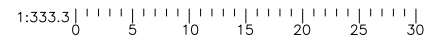
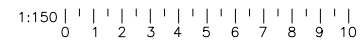
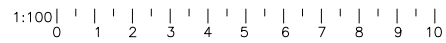
DATE: MARCH - 2013

CODE: PISCO - 6



NOTE 1: "H" VALUES
 CHIRA, CAMANA, CANETE = 1.20
 PISCO = 1.00
 CHINCHA, YAUCA = 0.80

TYPICAL SECTION OF THE PROJECTED DYKE



NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.

1:100 0 1 2 3 4 5 6 7 8 9 10

1:150 0 1 2 3 4 5 6 7 8 9 10

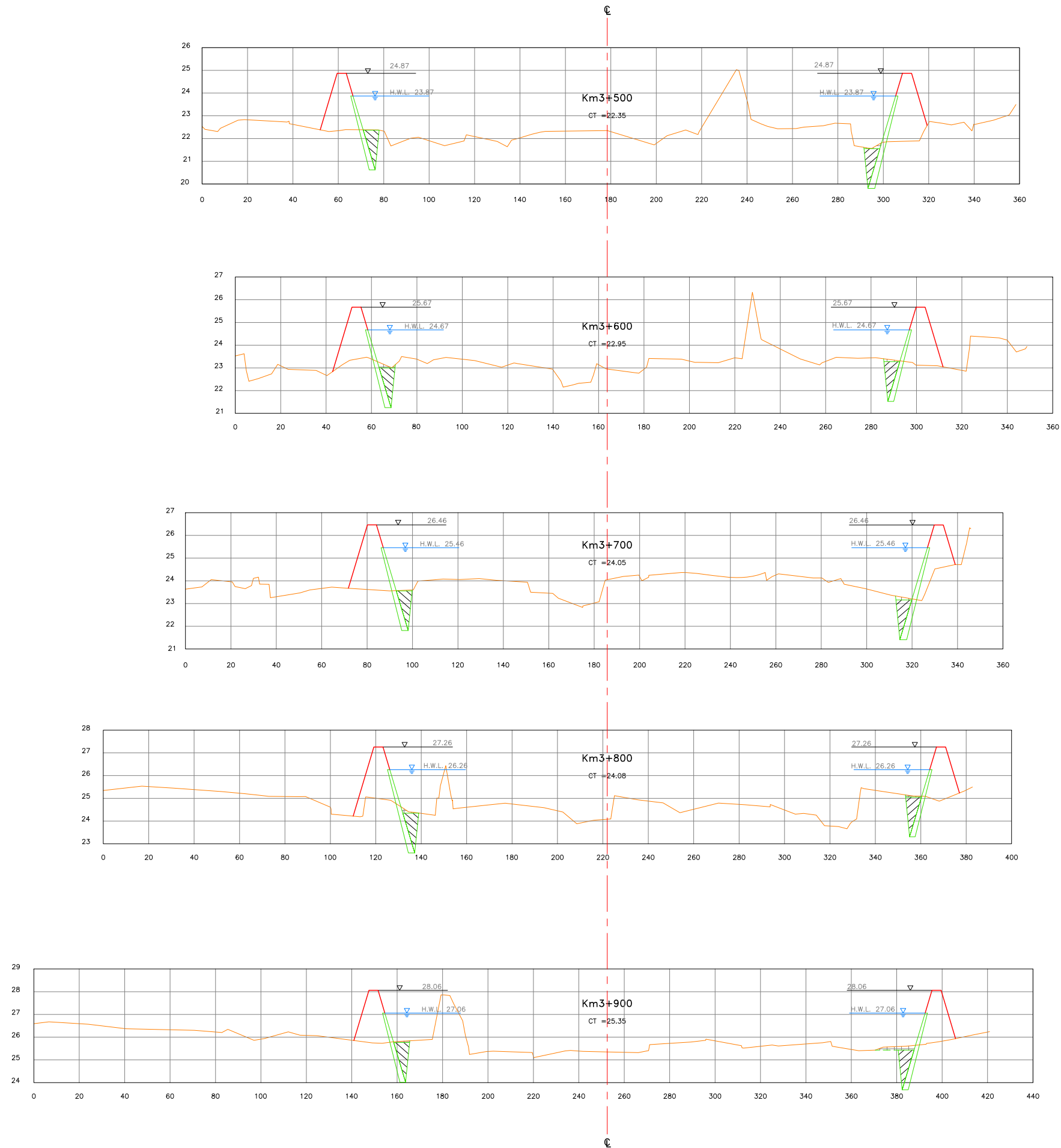
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.



Consultants:



Designed by: M.SOYA
Revised by: M.KITANO
Approved by: Y.NAKAGAWA
Revised by: Y.NAKAGAWA

Project:
THE PREPARATORY STUDY ON PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOOD IN THE REPUBLIC OF PERU

Drawing:
**PISCO RIVER: PI-1
CROSS SECTIONS
Km. 3+500- Km. 3+900**

ESCALE: INDICATED
DATE: MARCH - 2013
CODE: **PI-1-ST-02**

1:100 0 1 2 3 4 5 6 7 8 9 10

1:150 0 1 2 3 4 5 6 7 8 9 10

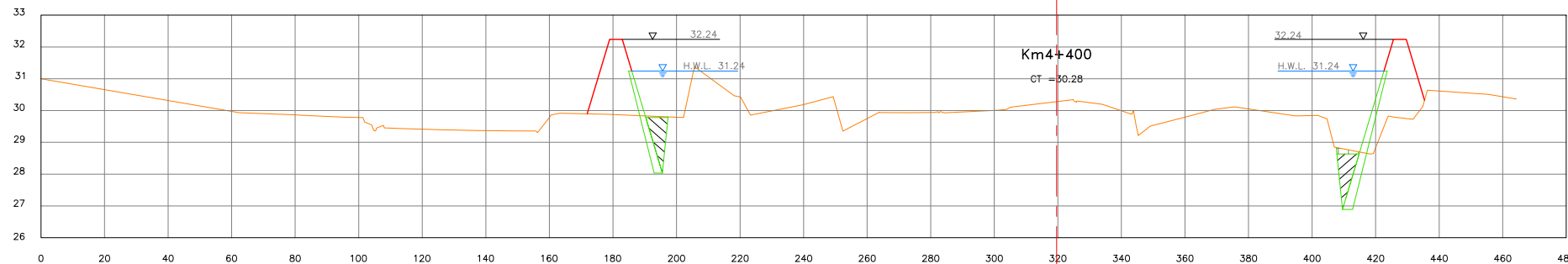
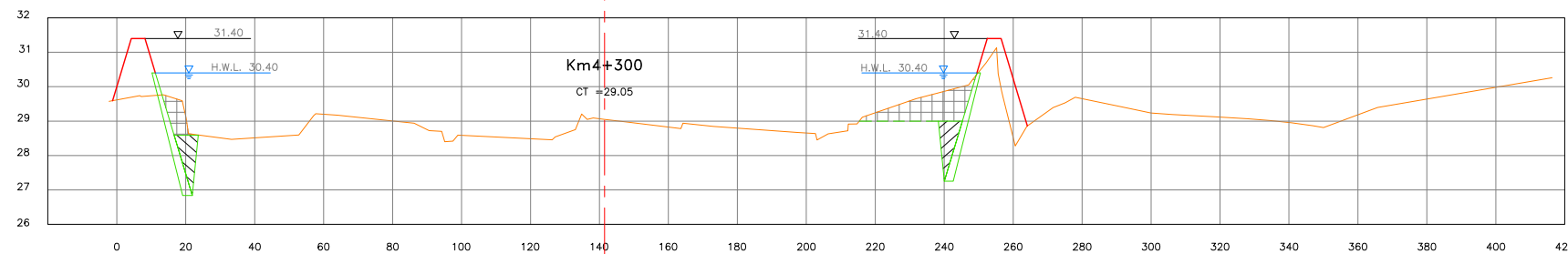
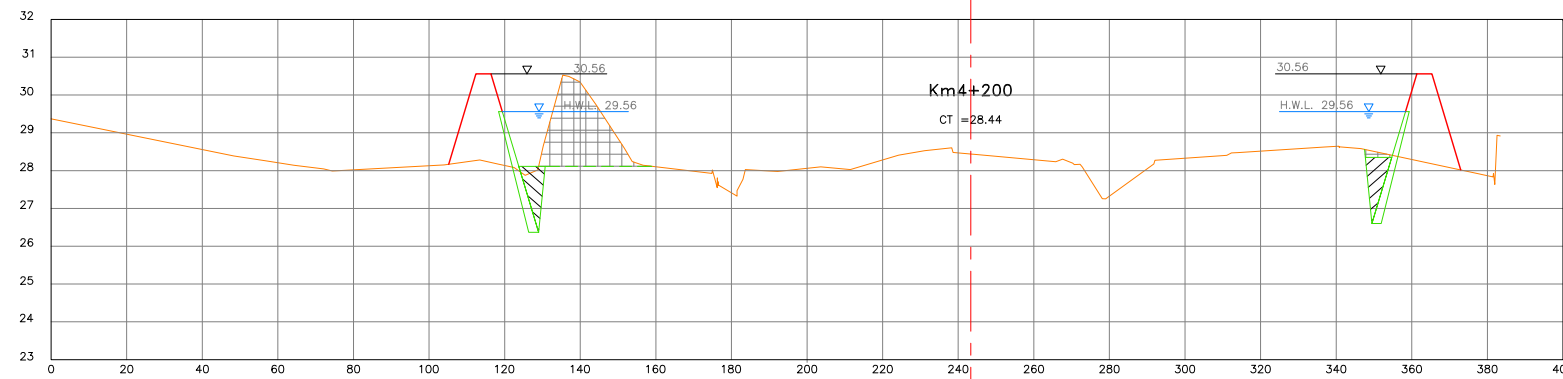
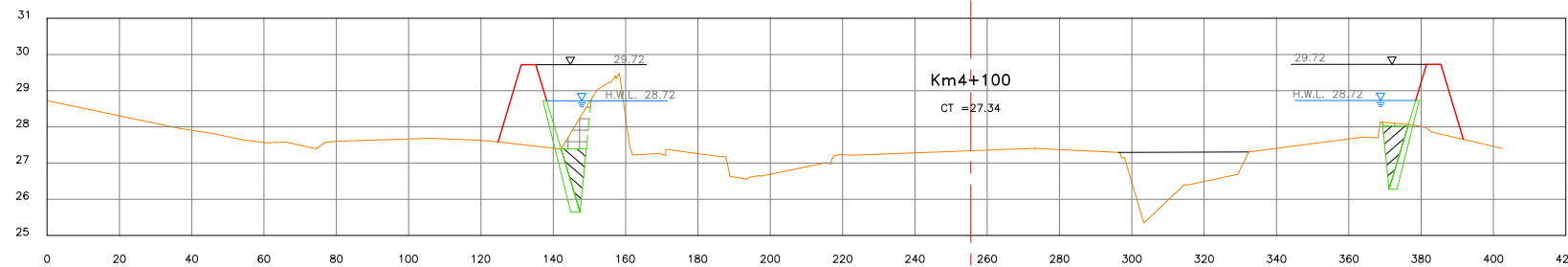
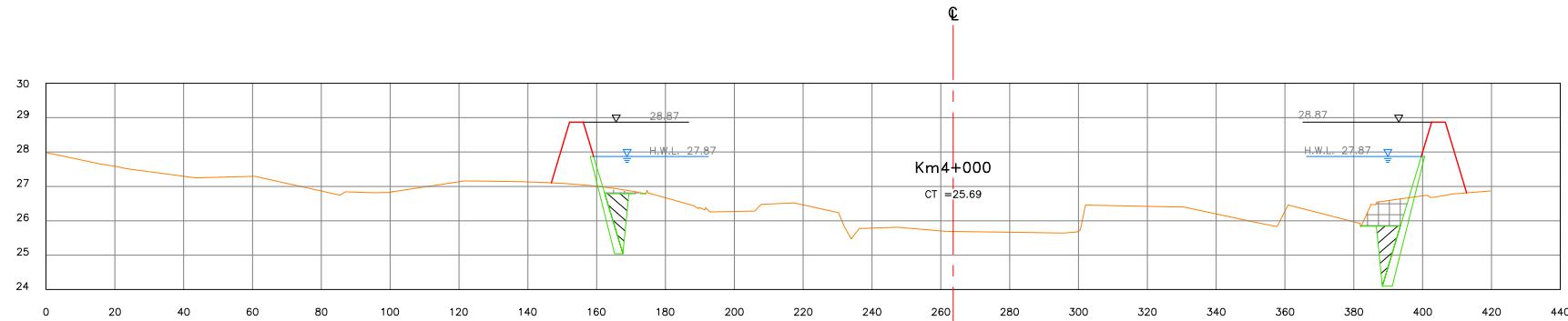
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.



Consultants:
Yec
Yachiyo Engineering Co., Ltd.



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Revised by: Y.NAKAGAWA

Project:
THE PREPARATORY STUDY ON PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOOD IN THE REPUBLIC OF PERU

Drawing:
**PISCO RIVER: PI-1
CROSS SECTIONS
Km. 4+000 - Km. 4+400**

ESCALE: INDICATED
DATE: MARCH - 2013
CODE: **PI-1-ST-03**

1:100 0 1 2 3 4 5 6 7 8 9 10

1:150 0 1 2 3 4 5 6 7 8 9 10

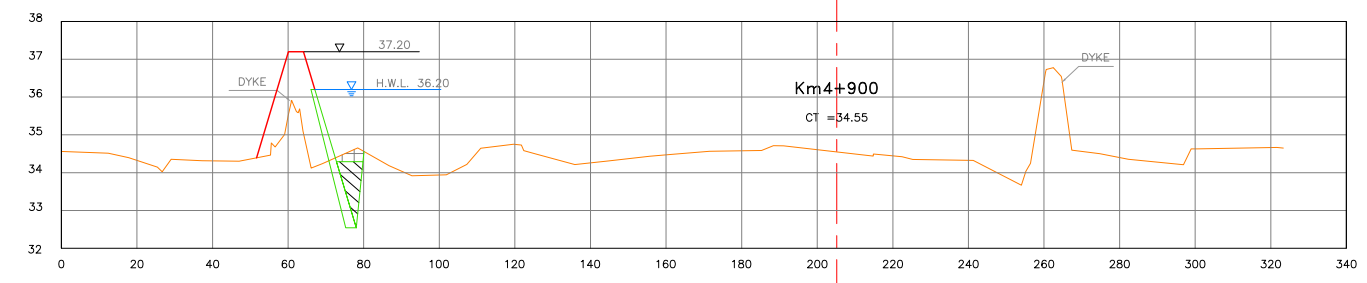
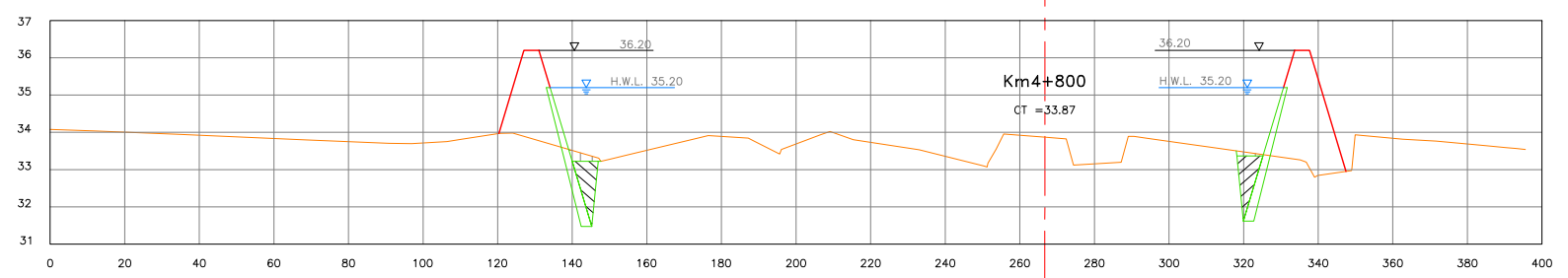
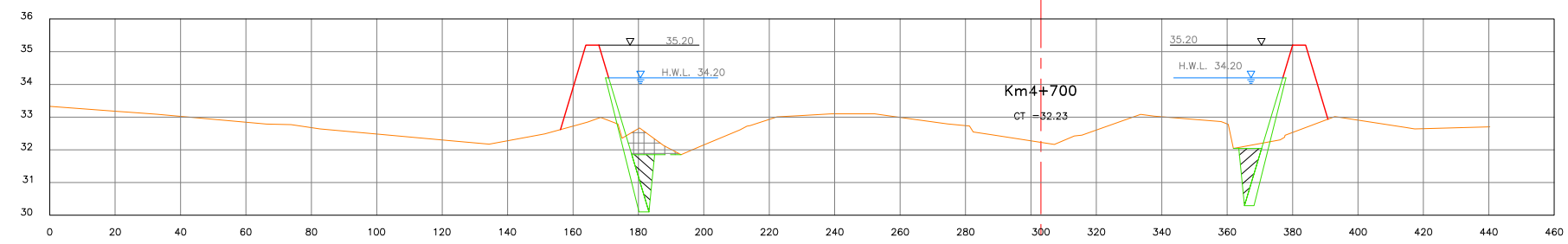
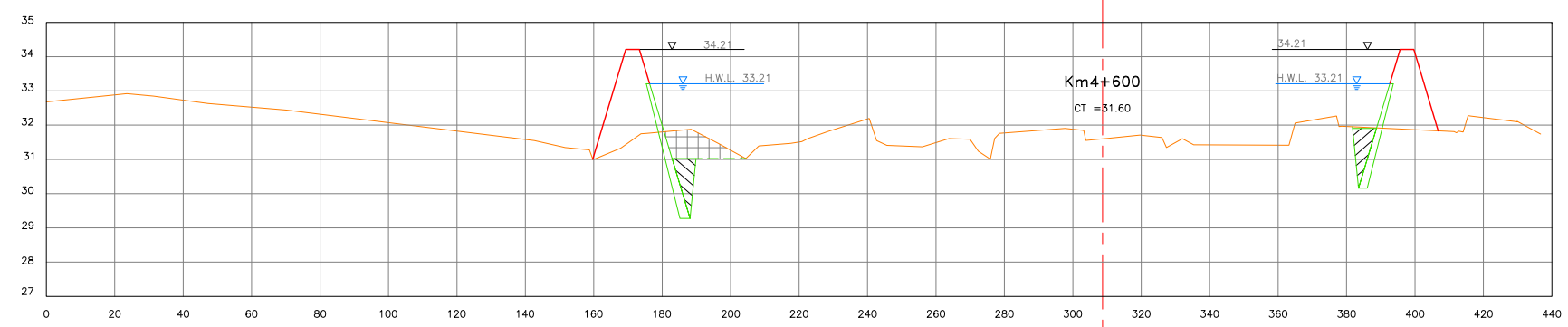
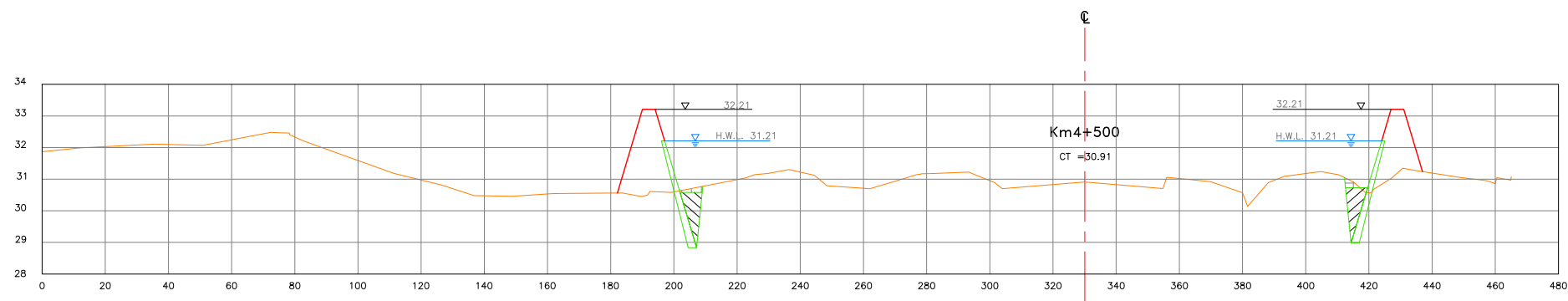
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.



Consultants:
Yec
Yachiyo Engineering Co., Ltd.



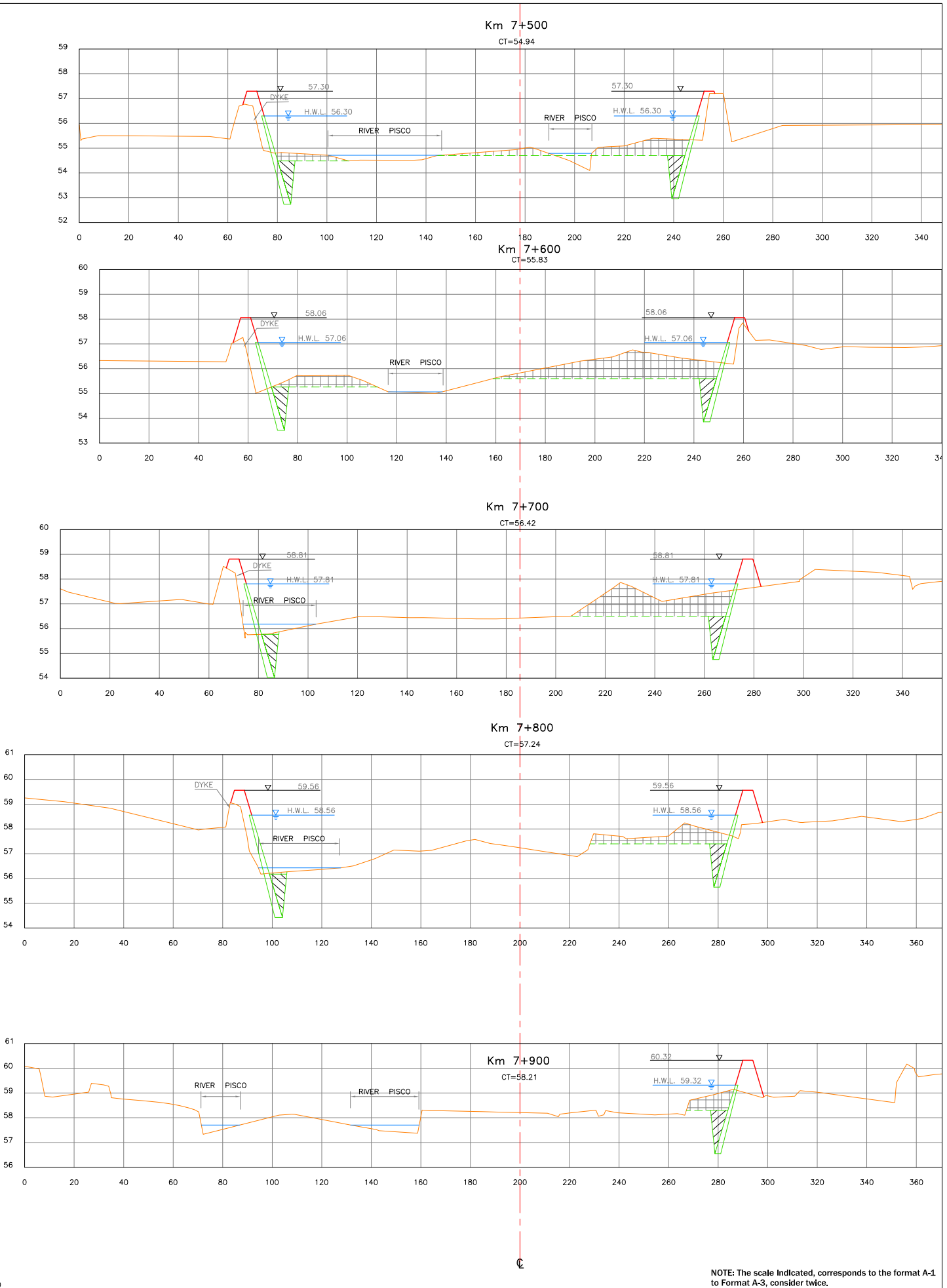
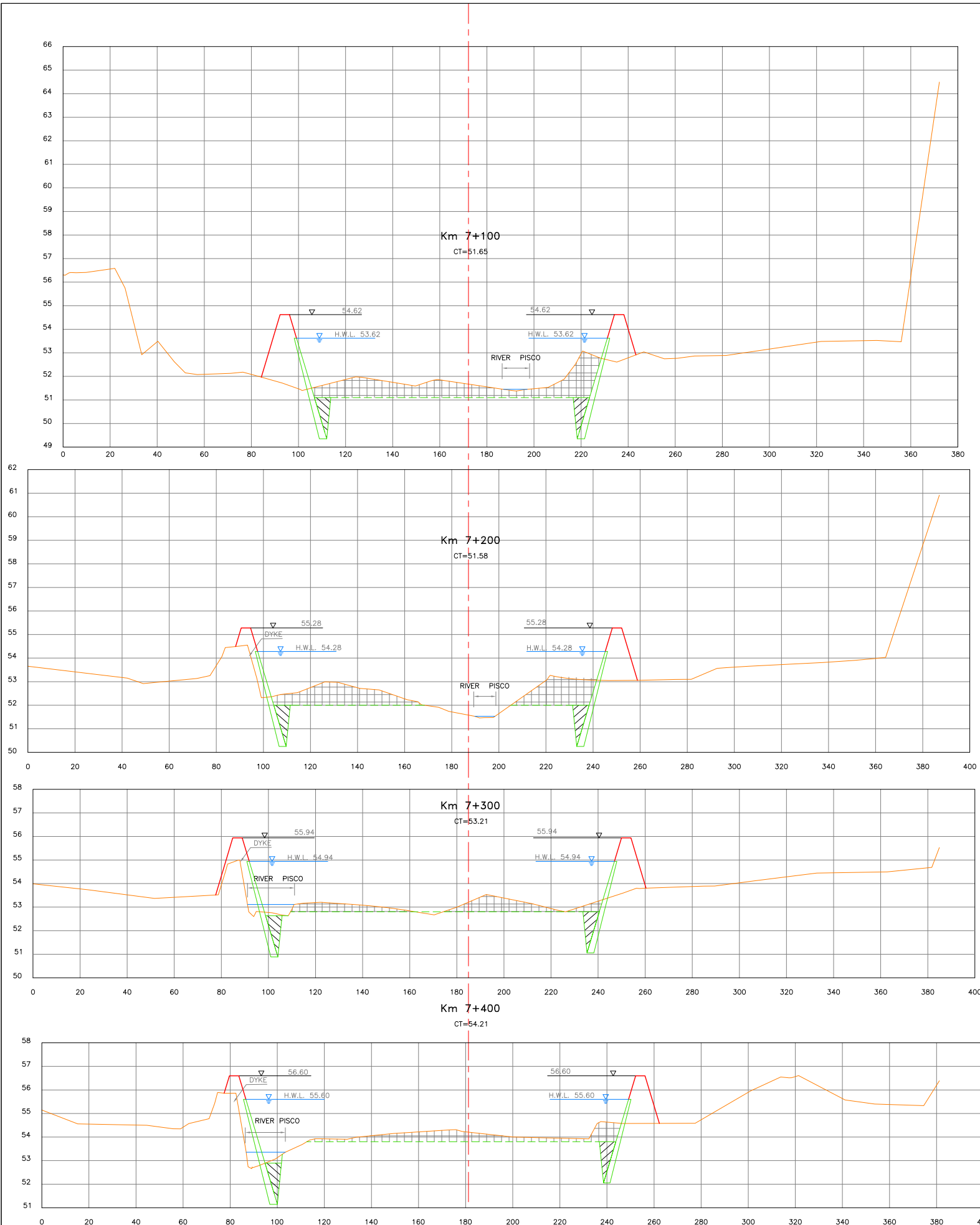
LATIN AMERICA - CARIBBEAN
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Project:
THE PREPARATORY STUDY ON PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOOD IN THE REPUBLIC OF PERU

Drawing:
**PISCO RIVER: PI-1
CROSS SECTIONS
Km. 4+500 - Km. 4+900**

ESCALE: INDICATED
DATE: MARCH - 2013
CODE: **PI-1-ST-04**



NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.



Consultants:



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Project:
THE PREPARATORY STUDY ON PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOOD IN THE REPUBLIC OF PERU

Drawing:

PISCO RIVER: PI-2 CROSS SECTIONS
KM 7+100 - KM 7+900

ESCALE: INDICATED
 DATE: MARCH - 2013
 CODE: **PI-2-ST-02**

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1:150 0 1 2 3 4 5 6 7 8 9 10

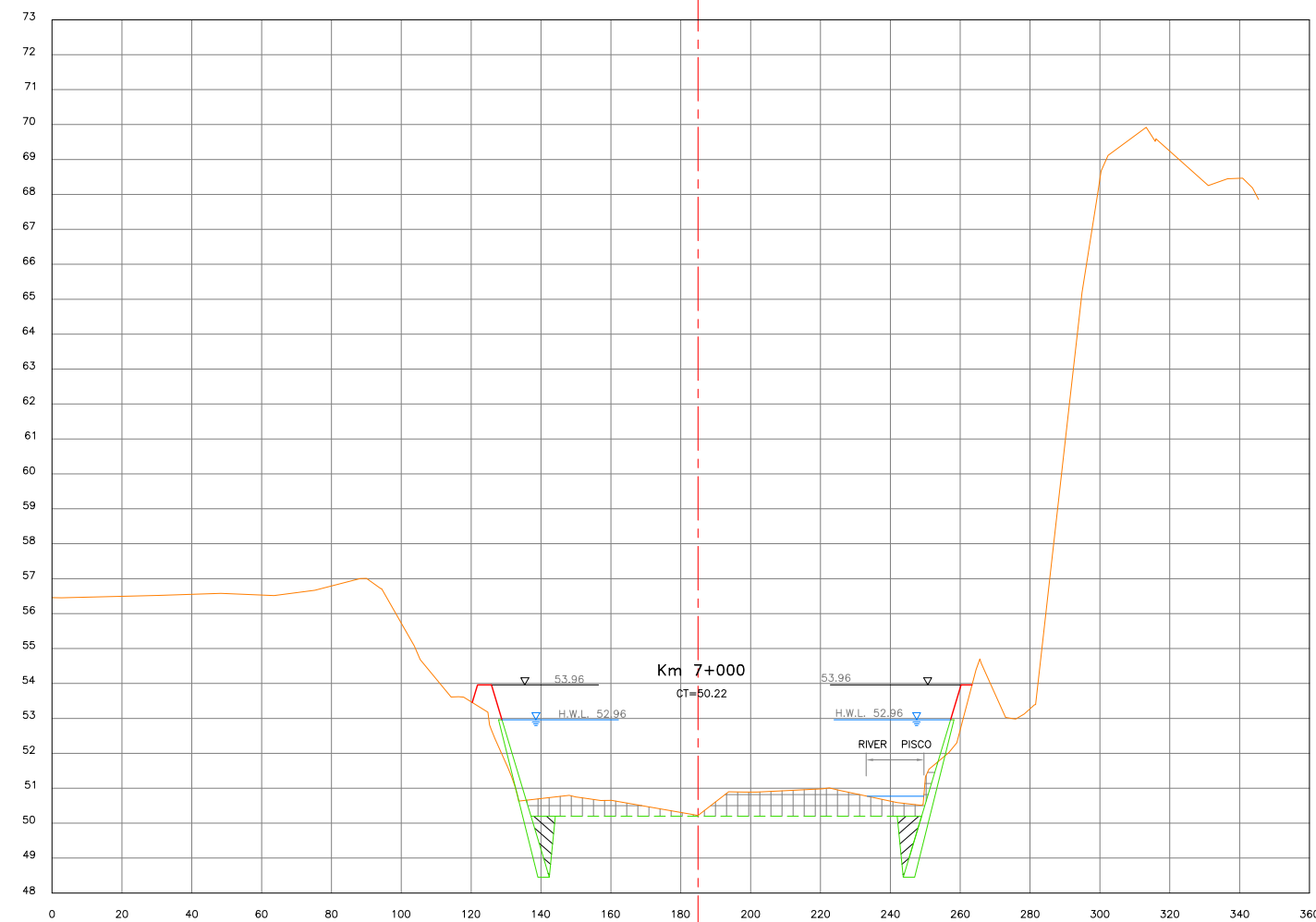
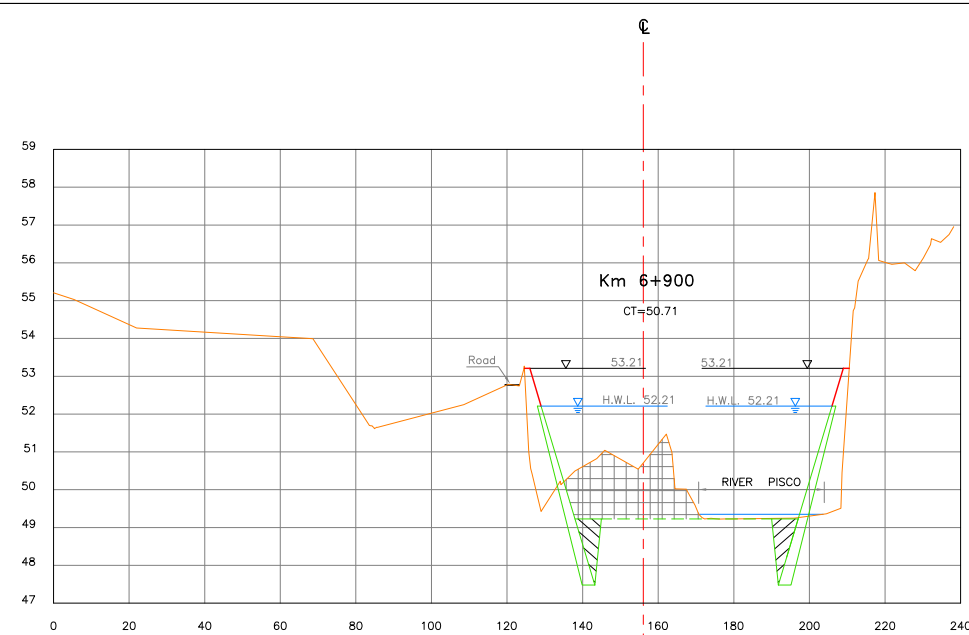
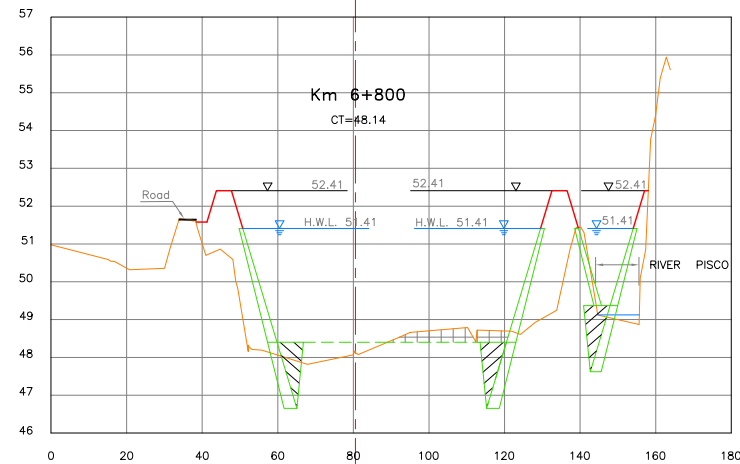
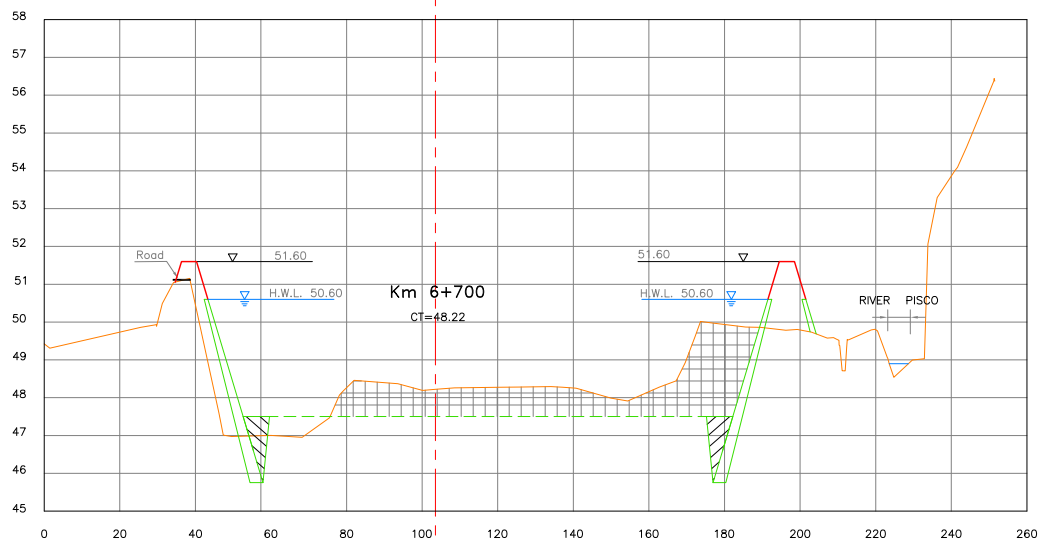
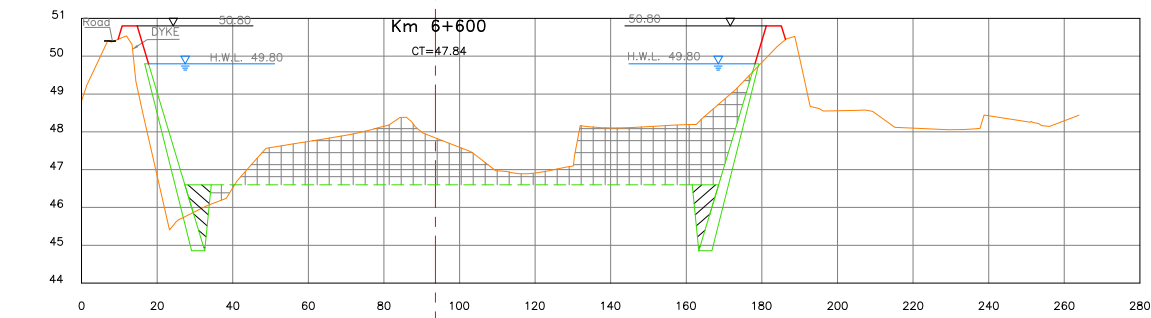
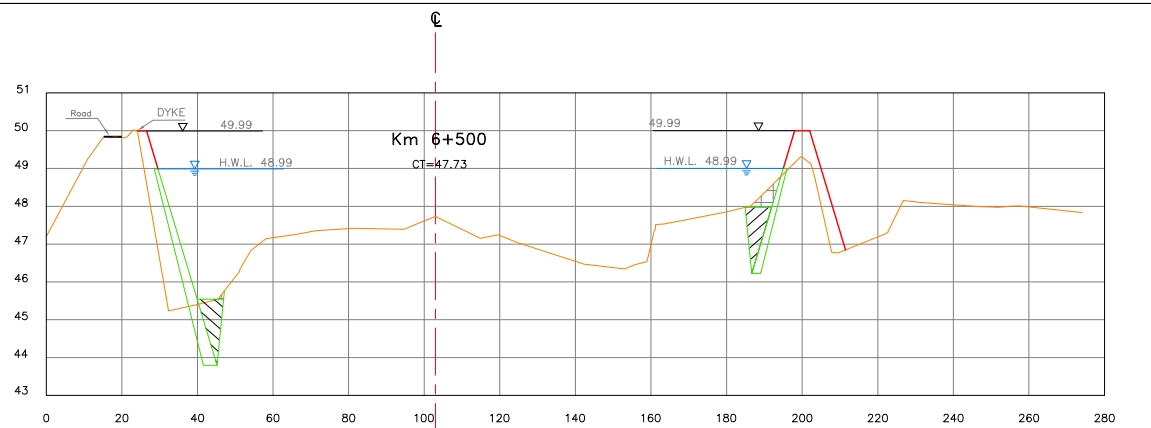
1:200 0 5 10 15

1:250 0 5 10 15 20

1:333.3 0 5 10 15 20 25 30

1:1000 0 5 10 15 20 25 30 35 40

1:750 0 10 20 30 40 50 60



NOTE: The scale indicated, corresponds to the format A-1 to Format A-3, consider twice.



Japan International Cooperation Agency

Consultants:



Yachiyo Engineering Co., Ltd.



NIPPON KOEI CO., LTD.

LATIN AMERICA - CARIBBEAN



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Designed by: M.SOYA
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Project:
THE PREPARATORY STUDY ON PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOOD IN THE REPUBLIC OF PERU

Drawing:

PISCO RIVER: PI-2 CROSS SECTIONS KM 6+500 - KM 7+000

ESCALE: INDICATED

DATE: MARCH - 2013

CODE: PI-2-ST-01

