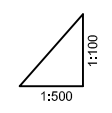
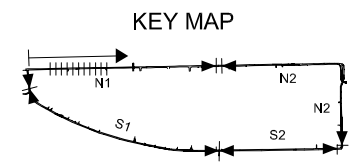
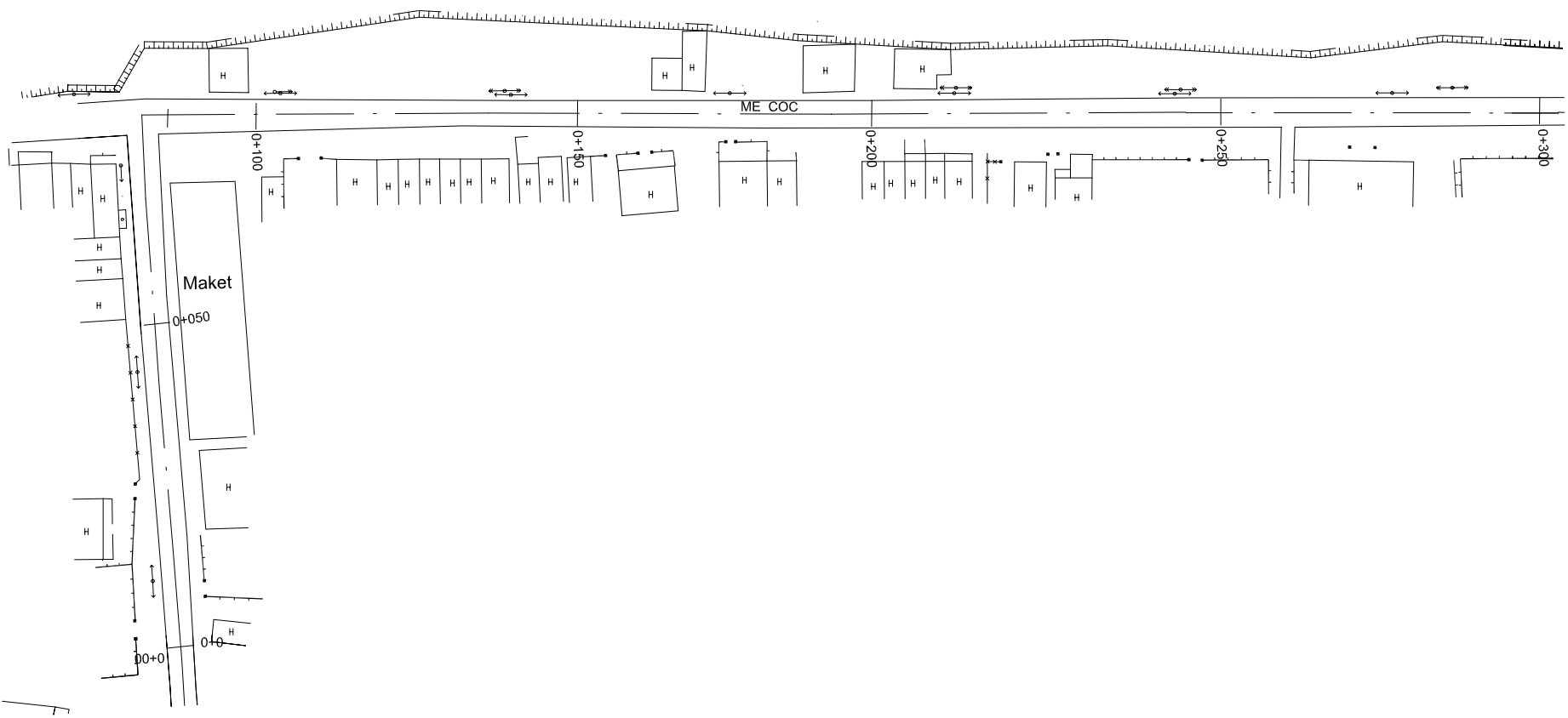


D. BEN ME COC (2) PUMP DRAINAGE IMPROVEMENT



Location of Survey	0+00	0+50	0+100	0+150	0+200	0+250	0+300
Manhole Number							
Diameter (mm)							
Gradient (%)							
Length (m)							
Gradient of Road (%)							
Road design Elevation (m)							
Existing Ground Elevation (m)	1.23	1.19	1.20	1.20	1.24	1.26	1.26
Earth Covering (m)							
Invert Elevation (m)							

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
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THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

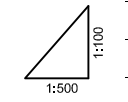
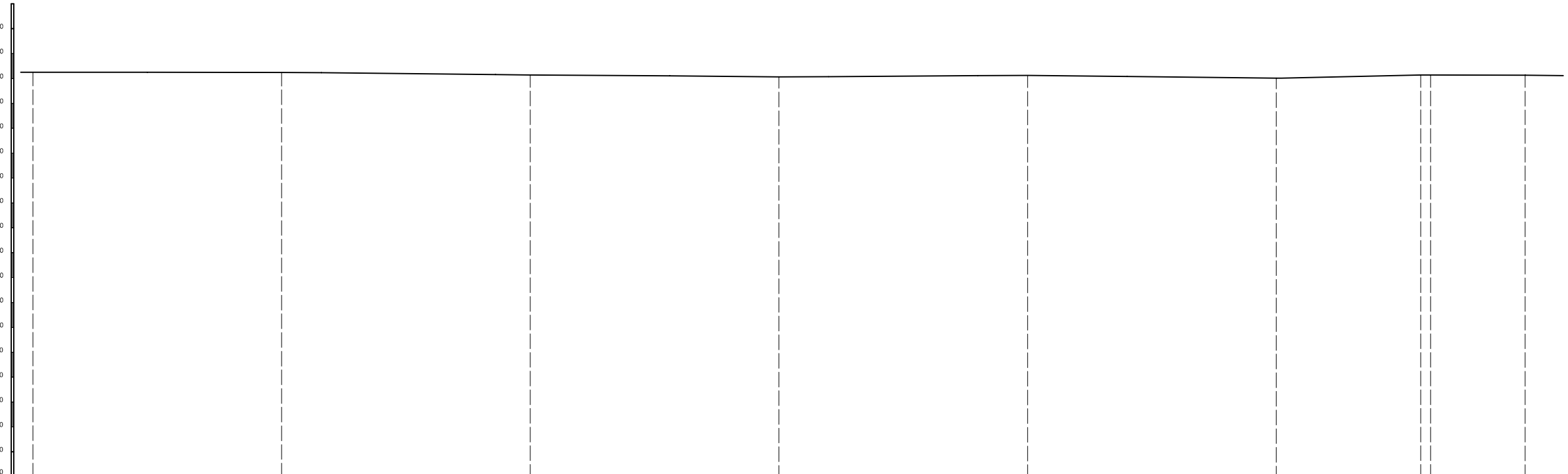
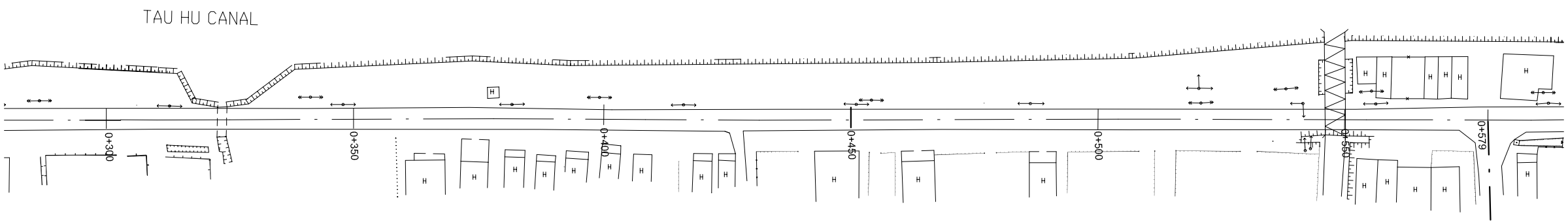
BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (1)

SCALE : AS SHOWN

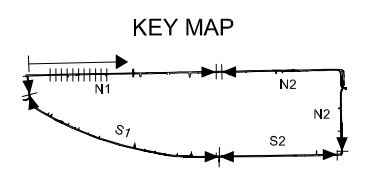
JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	CHECKED
DATE :	DWG. No.



Location of Survey	0+300	0+350	0+400	0+450	0+500	0+550	0+600
Manhole Number							
Diameter (mm)							
Gradient (‰)							
Length (m)							
Gradient of Road (‰)							
Road design Elevation (m)							
Existing Ground Elevation (m)	1.26	1.25	1.15	1.07	1.13	1.02	1.14
Earth Covering (m)							
Invert Elevation (m)							



NO.	DATE	DESCRIPTIONS	BY	APRO.

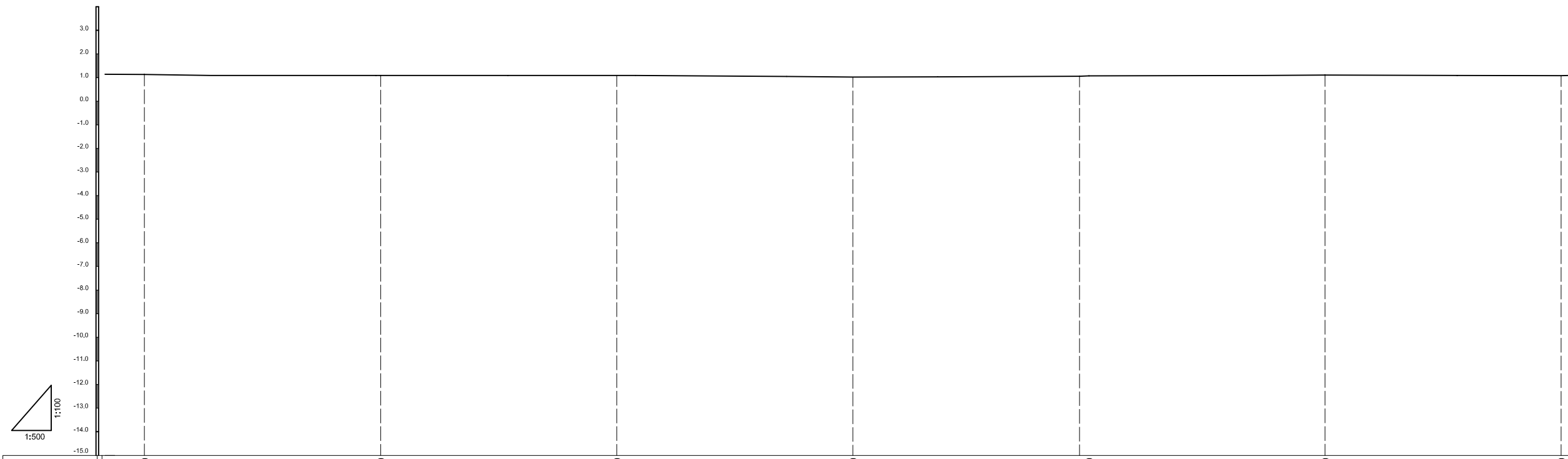
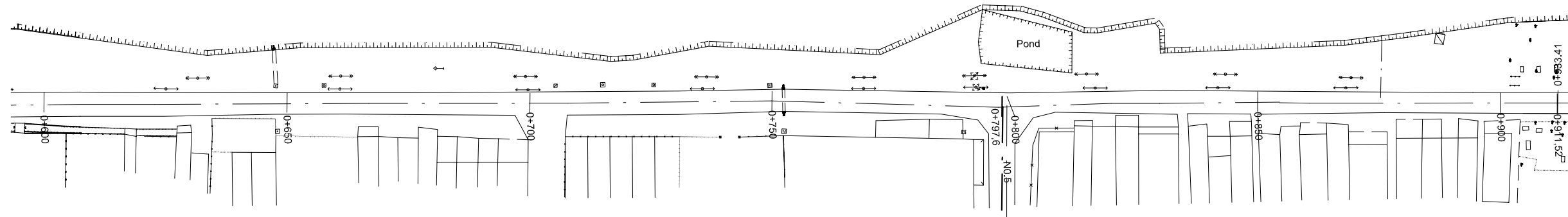
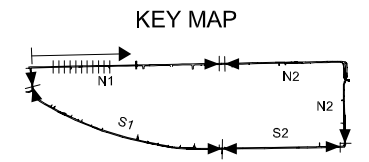
REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

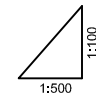
THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (2)

SCALE : AS SHOWN	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	
PACIFIC CONSULTANTS INTERNATIONAL	
DESIGNED	CHECKED
DATE :	DWG. No.



Location of Survey	0+600	0+650	0+700	0+750	0+800	0+850	0+900
Manhole Number							
Diameter (mm)							
Gradient (%)							
Length (m)							
Gradient of Road (‰)							
Road design Elevation (m)							
Existing Ground Elevation (m)	1.14	1.10	1.10	1.03	1.06	1.11	1.09
Earth Covering (m)							
Invert Elevation (m)							



NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
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BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (3)

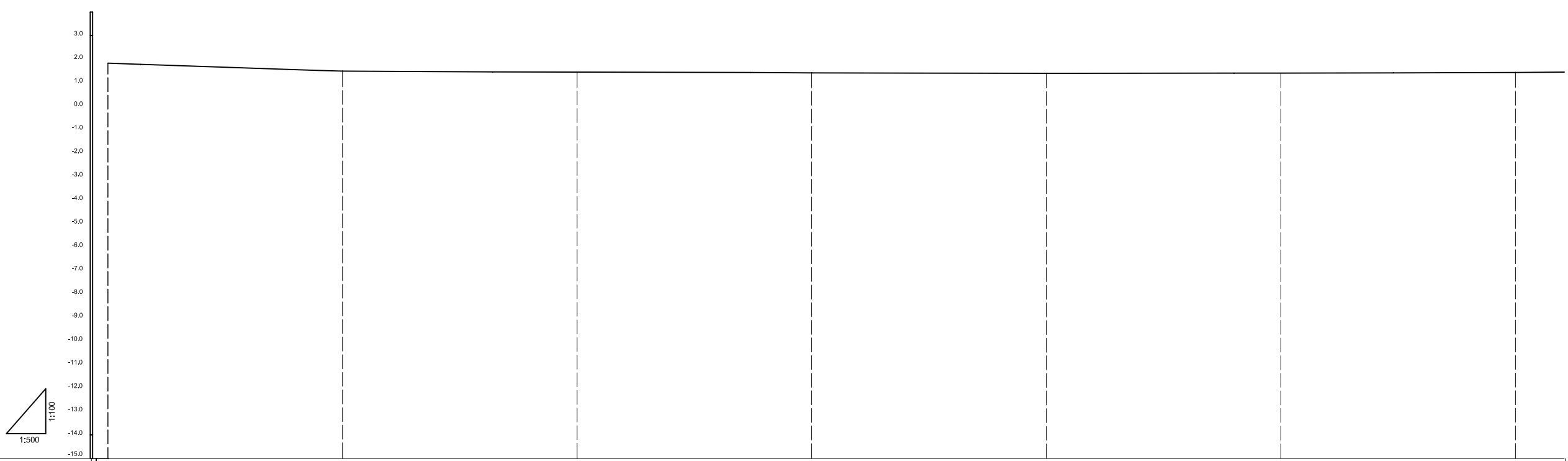
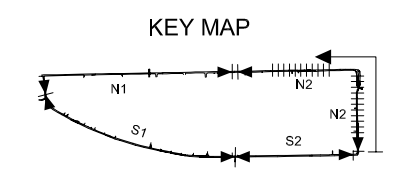
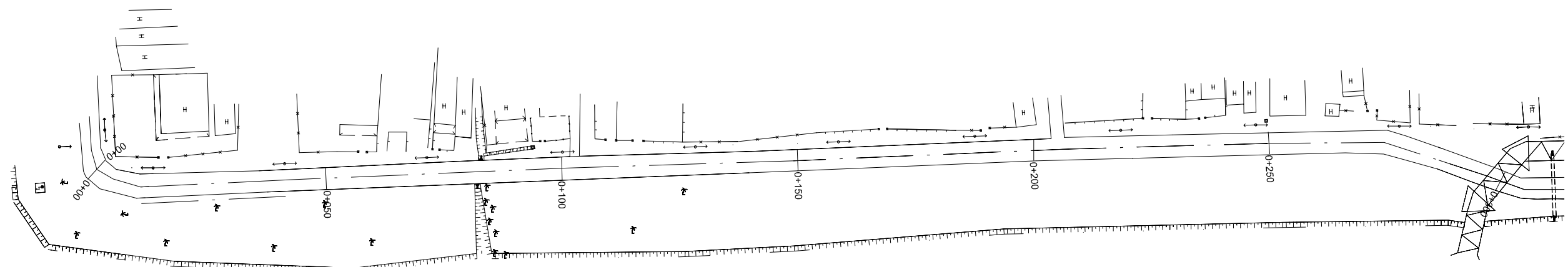
SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED _____ CHECKED _____

DATE : _____ DWG. No. _____



Location of Survey	0+00	0+50	0+100	0+150	0+200	0+250	0+300
Manhole Number							
Diameter (mm)							
Gradient (‰)							
Length (m)							
Gradient of Road (‰)							
Road design Elevation (m)							
Existing Ground Elevation (m)	1.83	1.49	1.45	1.42	1.40 1.40	1.41	1.43
Earth Covering (m)							
Invert Elevation (m)							

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
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WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

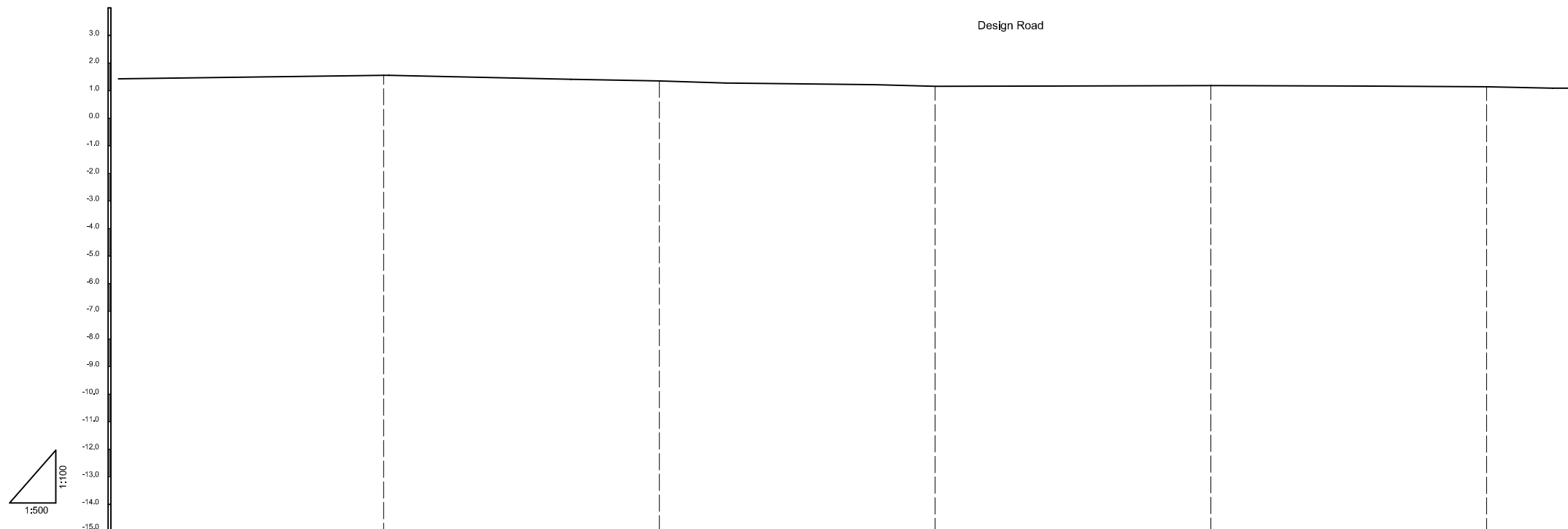
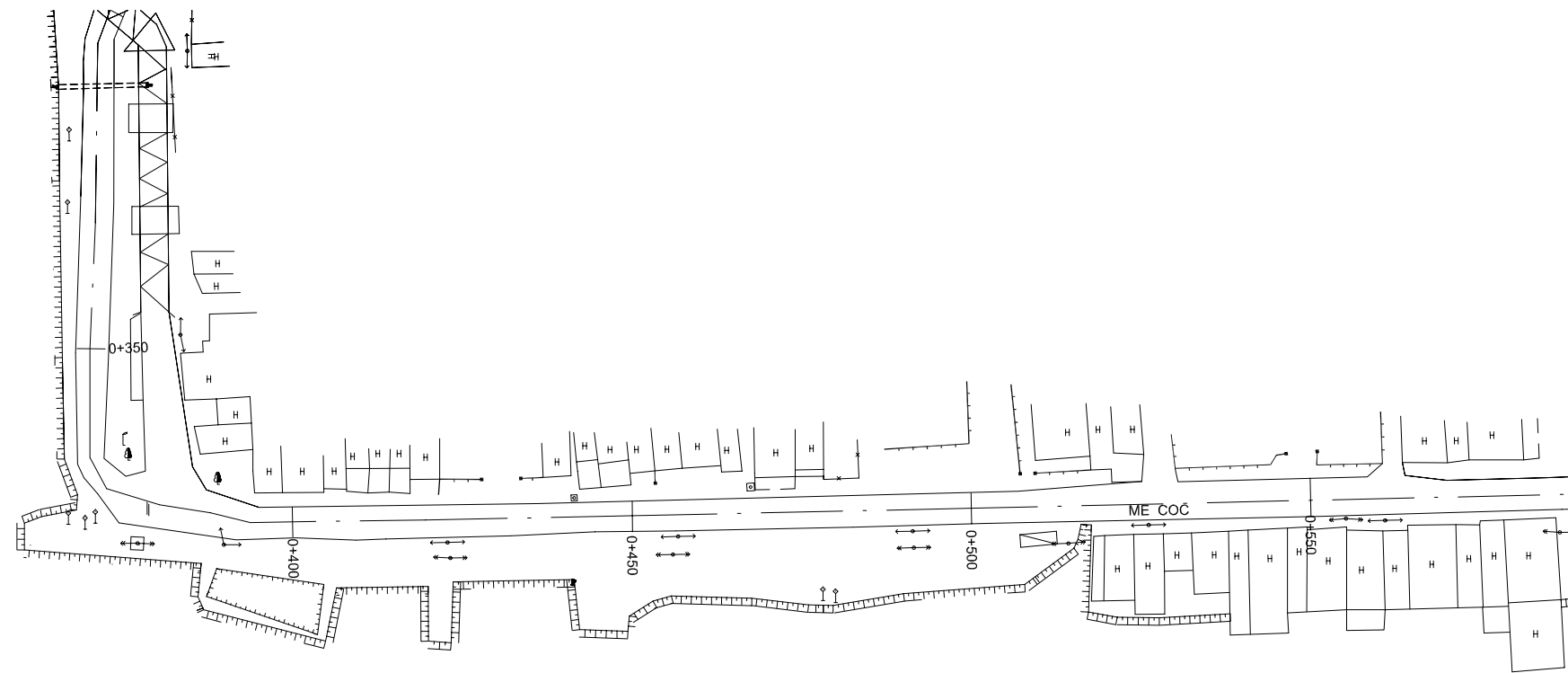
BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (4)

SCALE : AS SHOWN

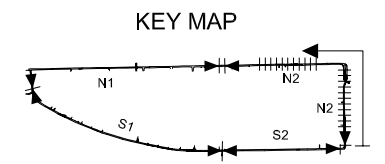
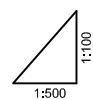
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	CHECKED
DATE :	DWG. No.



Location of Survey	0+350	0+400	0+450	0+500	0+550
Manhole Number					
Diameter (mm)					
Gradient (%)					
Length (m)					
Gradient of Road (%)					
Road design Elevation (m)					
Existing Ground Elevation (m)	1.56	1.36	1.16	1.19	1.15
Earth Covering (m)					
Invert Elevation (m)					



NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
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THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
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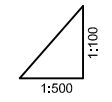
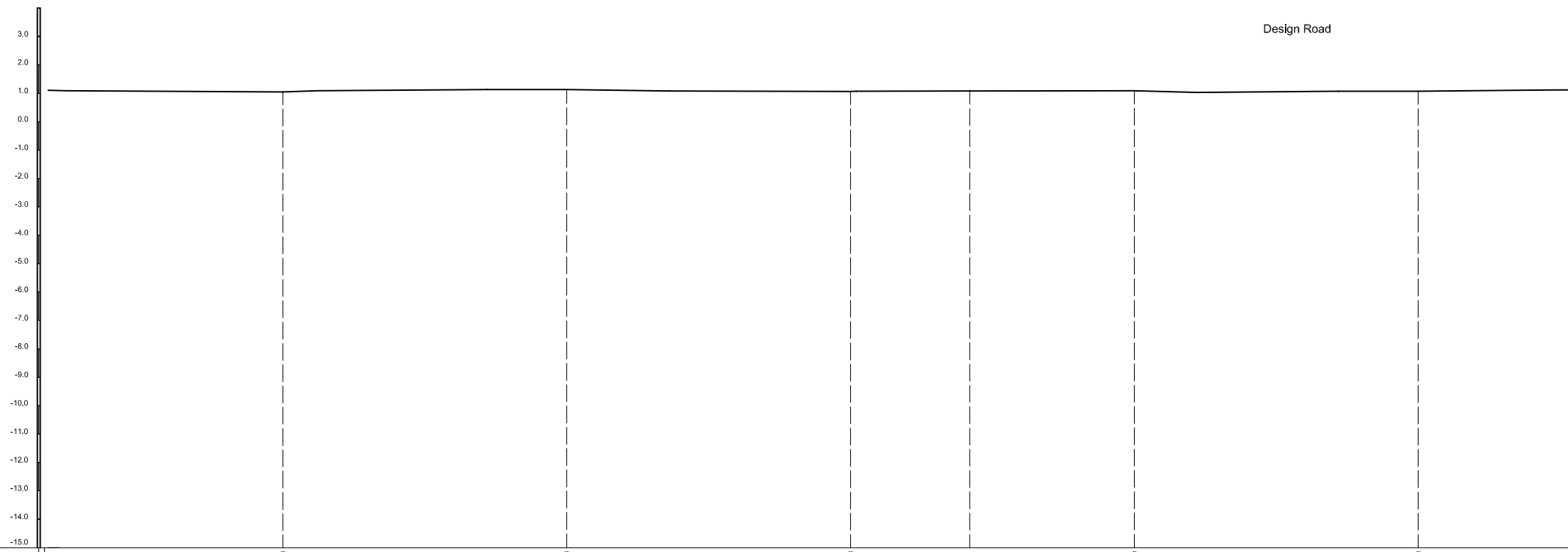
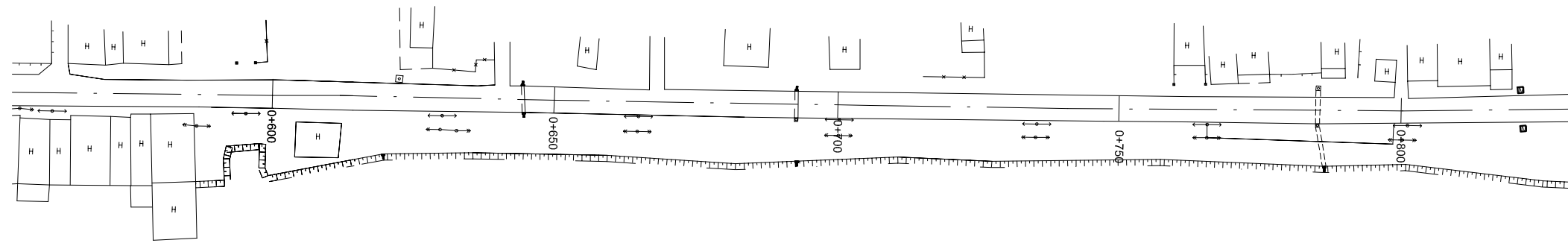
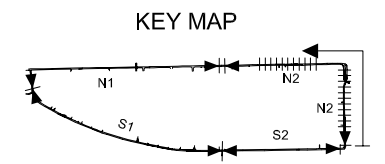
BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (5)

SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	CHECKED
DATE :	DWG. No.



Location of Survey	0+600	0+650	0+700	0+750	0+800
Manhole Number					
Diameter (mm)					
Gradient (‰)					
Length (m)					
Gradient of Road (‰)					
Road design Elevation (m)					
Existing Ground Elevation (m)	1.05	1.14	1.07	1.09	1.10
Earth Covering (m)					
Invert Elevation (m)					

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
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BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (6)

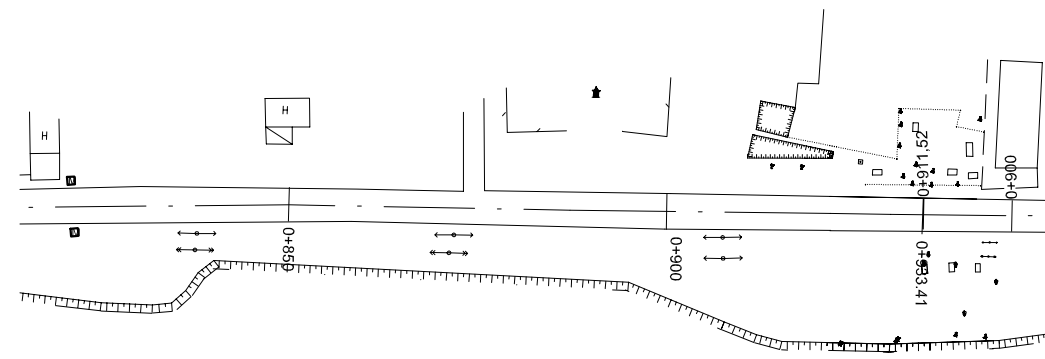
SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

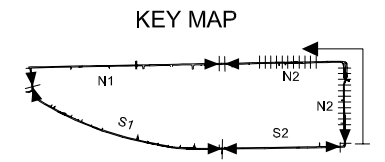
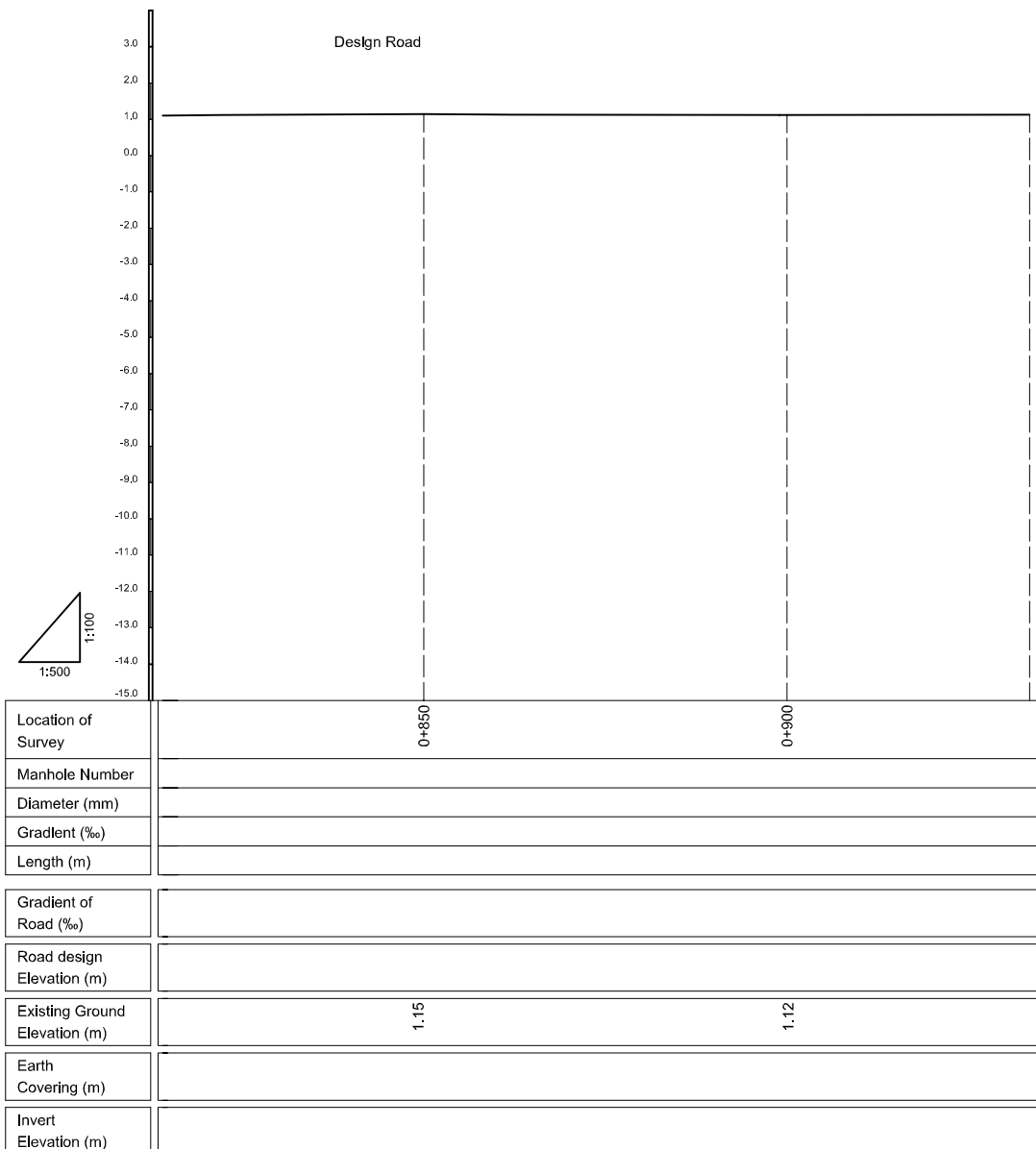
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED _____ CHECKED _____

DATE : _____ DWG. No. _____



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NO.	DATE	DESCRIPTIONS	BY	APRO.
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REVISIONS

PROJECT MANAGEMENT UNIT FOR
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BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (7)

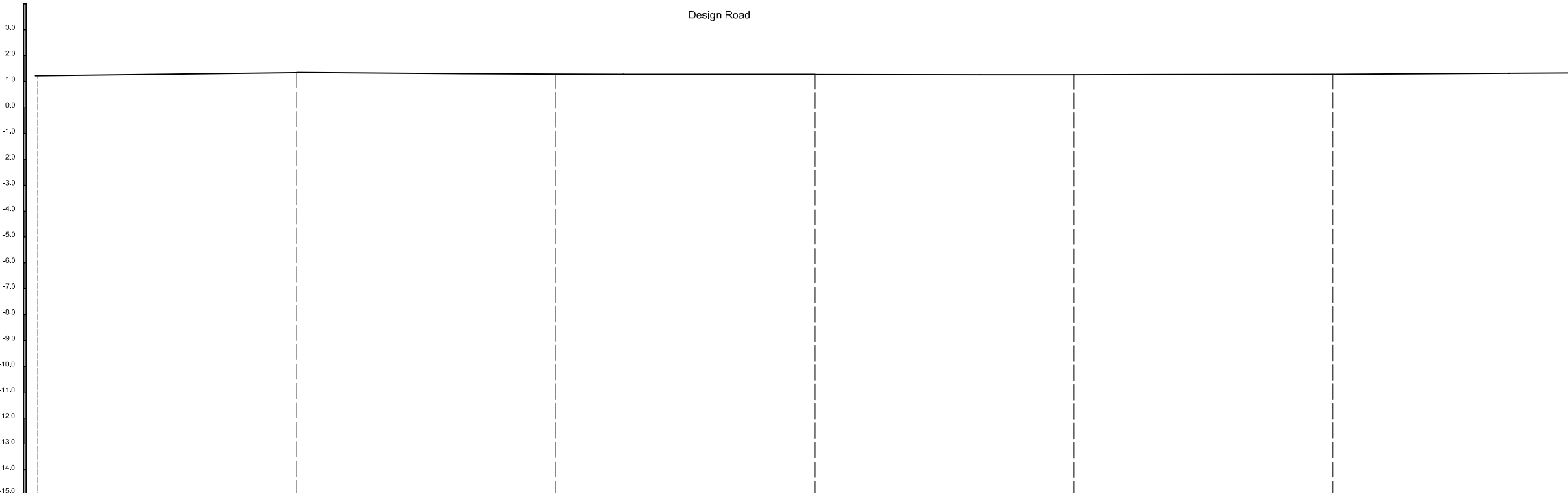
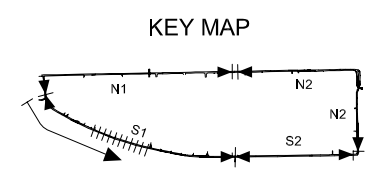
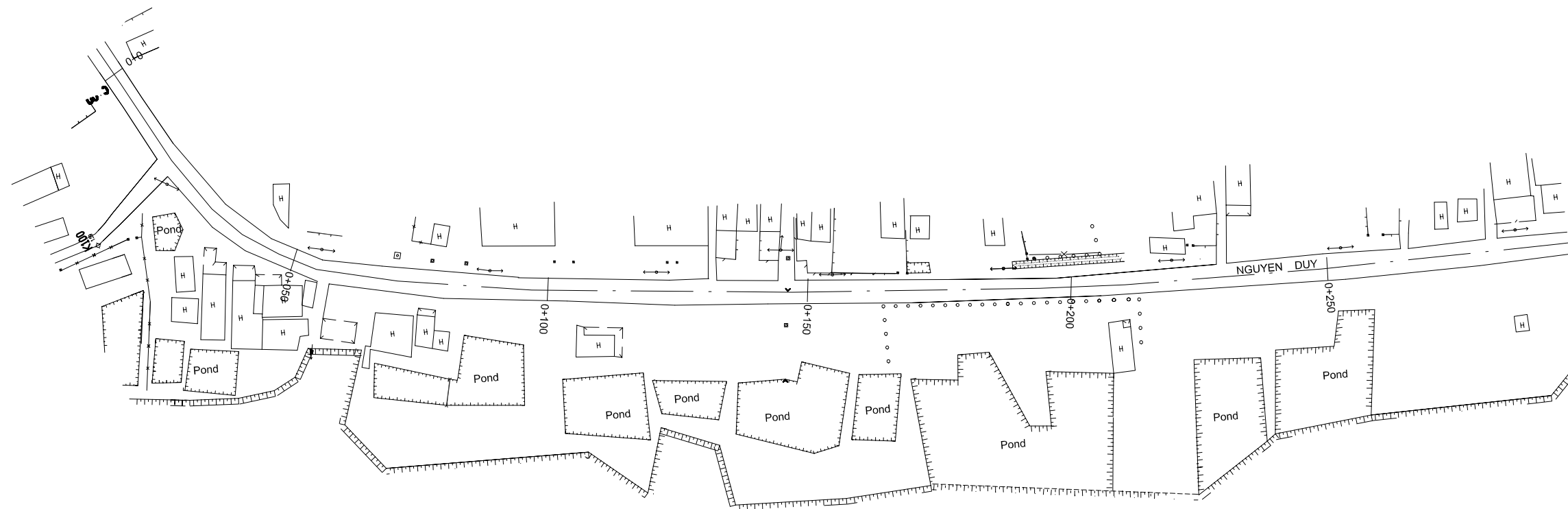
SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

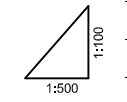
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	CHECKED
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DATE :	DWG. No.
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Location of Survey	0+00	0+50	0+100	0+150	0+200	0+250
Manhole Number						
Diameter (mm)						
Gradient (%)						
Length (m)						
Gradient of Road (%)						
Road design Elevation (m)						
Existing Ground Elevation (m)	1.23	1.36 1.36	1.30	1.28	1.27	1.29
Earth Covering (m)						
Invert Elevation (m)						



NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

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IN THE SOCIALIST REPUBLIC OF VIET NAM

BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (8)

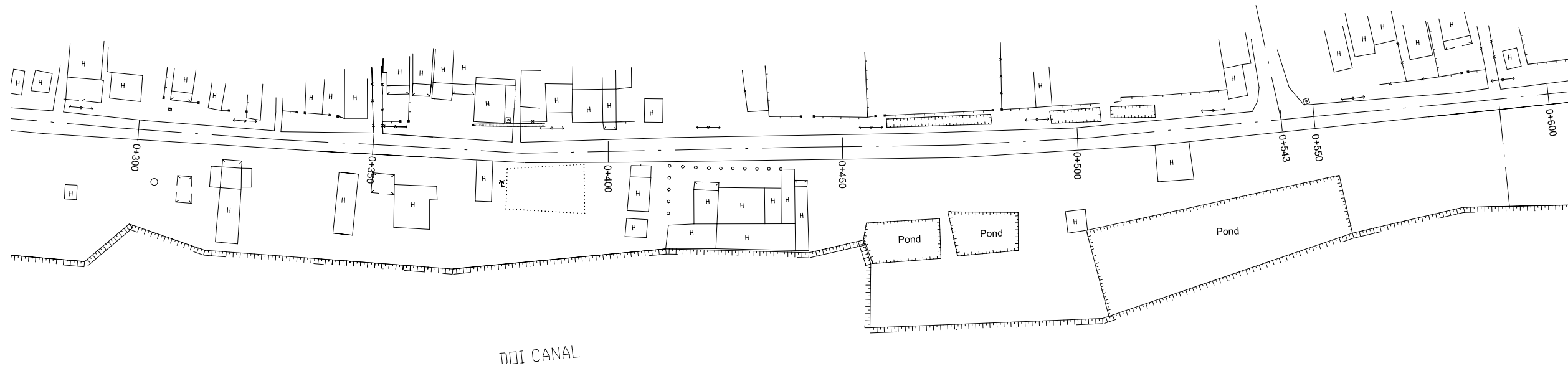
SCALE : AS SHOWN

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

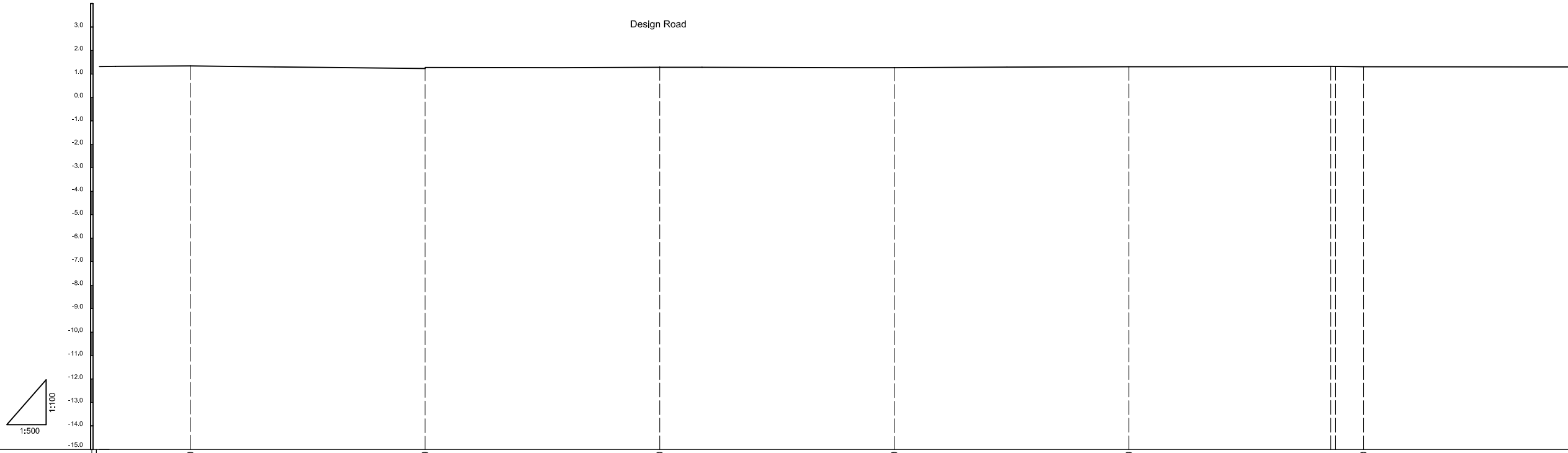
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	CHECKED
DATE :	DWG. No.

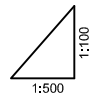
KEY MAP



Design Road



Location of Survey	0+300	0+350	0+400	0+450	0+500	0+550
Manhole Number						
Diameter (mm)						
Gradient (%)						
Length (m)						
Gradient of Road (%)						
Road design Elevation (m)						
Existing Ground Elevation (m)	1.35	1.24	1.29	1.27	1.32	1.32
Earth Covering (m)						
Invert Elevation (m)						



NO.	DATE	DESCRIPTIONS	BY	APRO.

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BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (9)

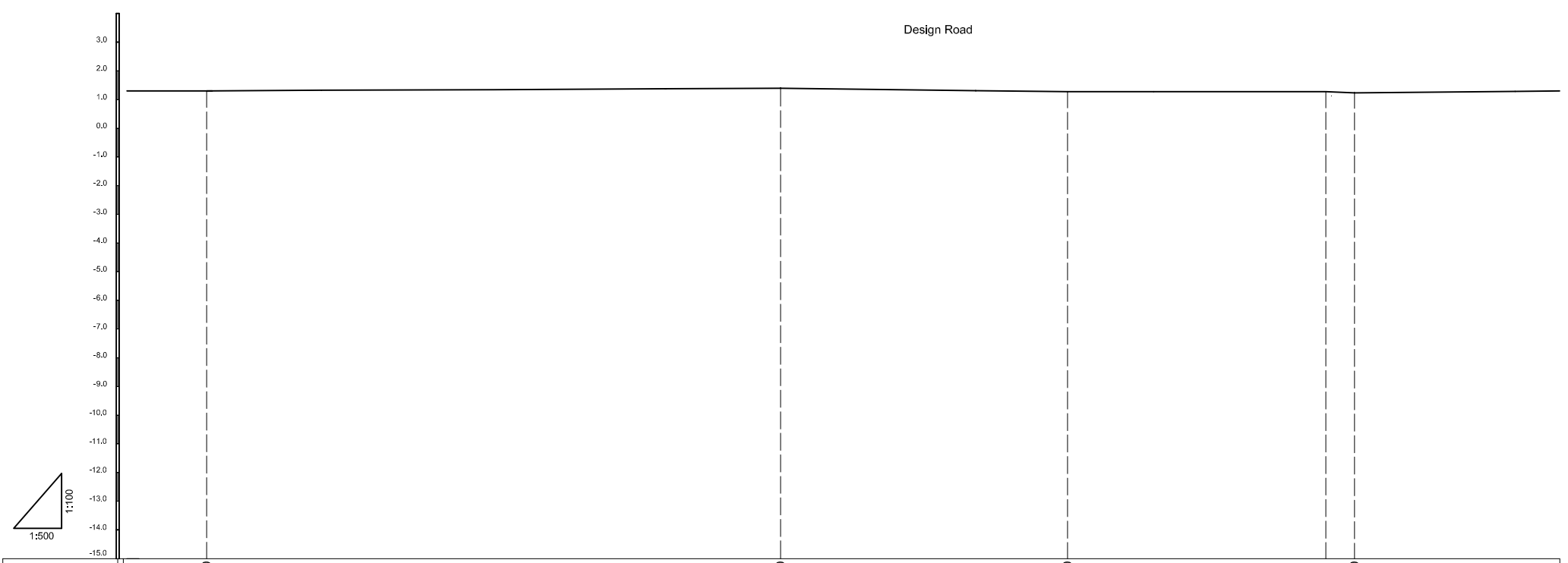
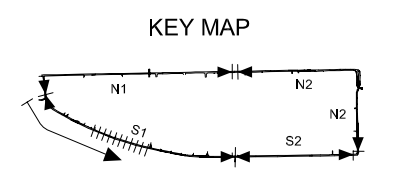
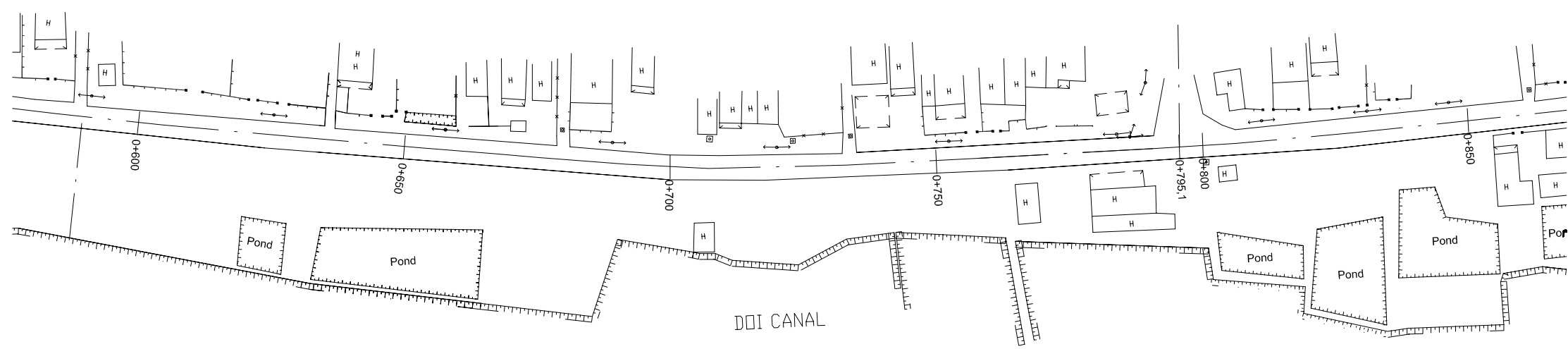
SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

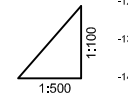
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED CHECKED

DATE : DWG. No.



Location of Survey	0+600	0+700	0+750	0+800
Manhole Number				
Diameter (mm)				
Gradient (%)				
Length (m)				
Gradient of Road (%)				
Road design Elevation (m)				
Existing Ground Elevation (m)	1.31	1.40	1.28	1.28 1.24
Earth Covering (m)				
Invert Elevation (m)				



NO.	DATE	DESCRIPTIONS	BY	APRO.

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PROJECT MANAGEMENT UNIT FOR
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THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
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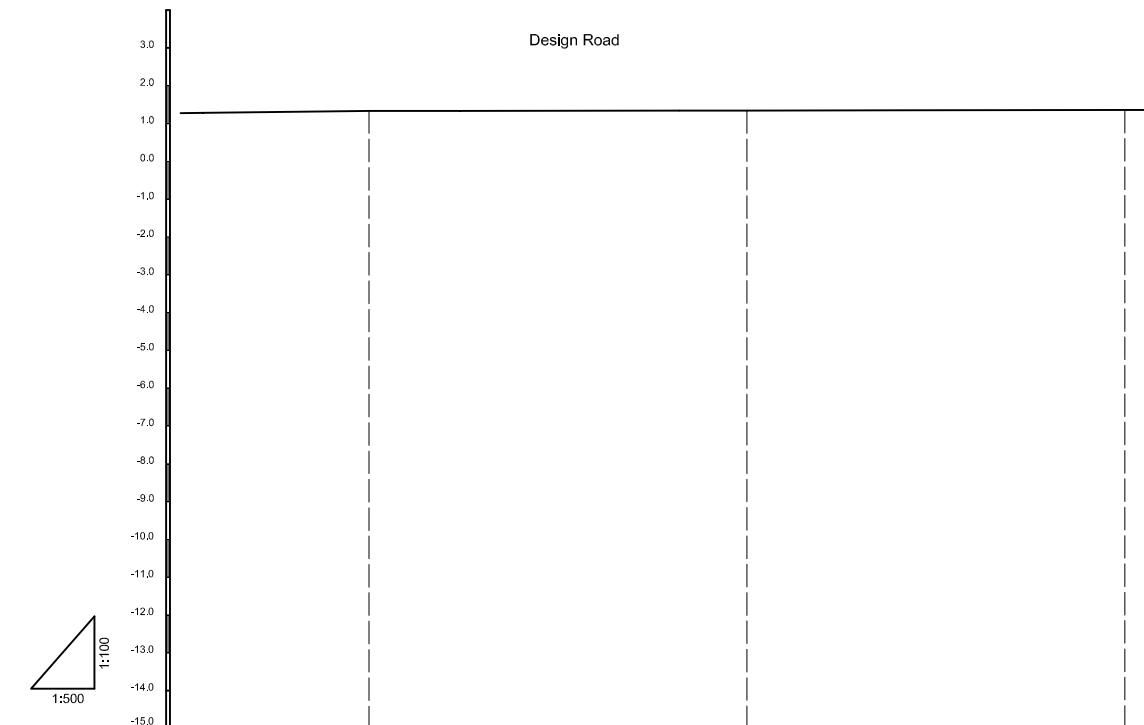
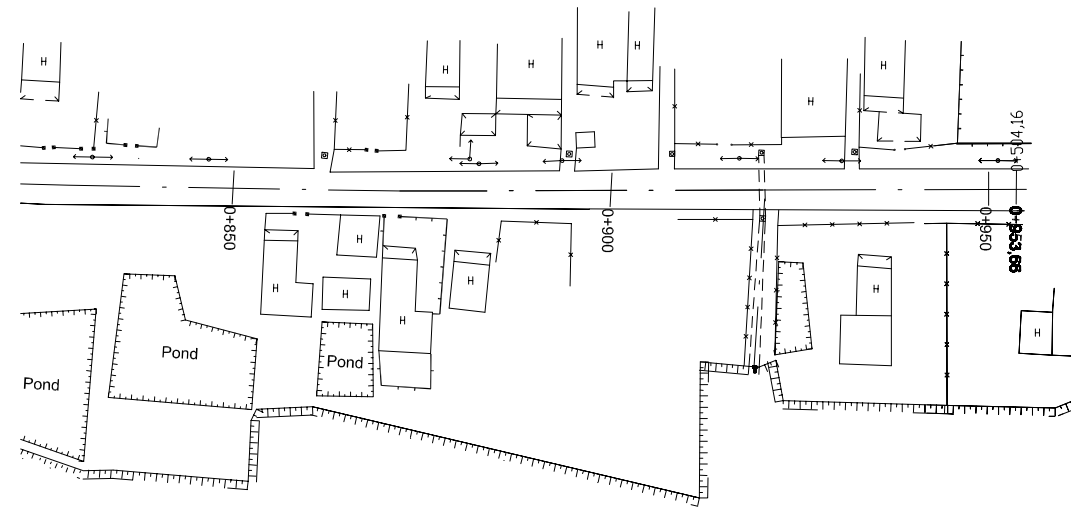
BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (10)

SCALE : AS SHOWN

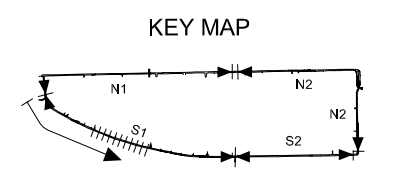
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	CHECKED
DATE :	DWG. No.



Location of Survey	0+850	0+900	
Manhole Number			
Diameter (mm)			
Gradient (%)			
Length (m)			
Gradient of Road (‰)			
Road design Elevation (m)			
Existing Ground Elevation (m)	1.34	1.35	1.37
Earth Covering (m)			
Invert Elevation (m)			



NO.	DATE	DESCRIPTIONS	BY	APRO.

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BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (11)

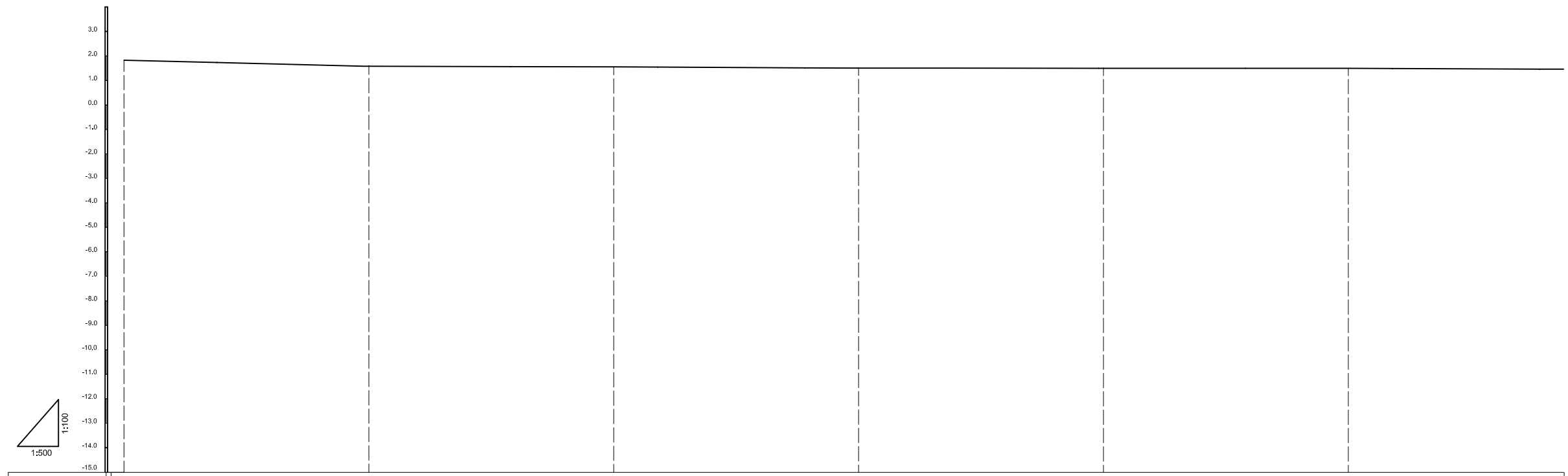
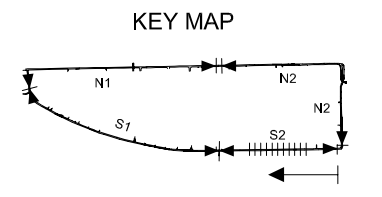
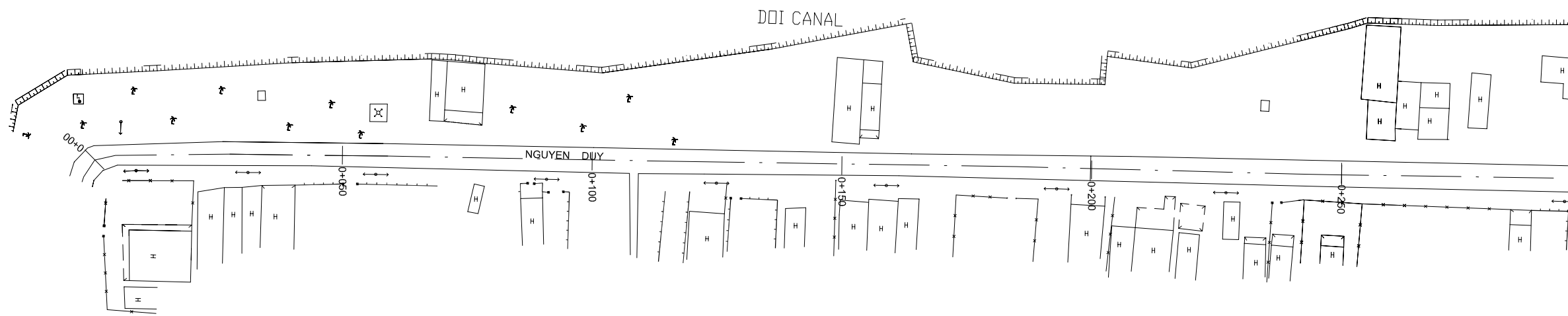
SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED CHECKED

DATE : DWG. No.



Location of Survey	0+00	0+50	0+100	0+150	0+200	0+250
Manhole Number						
Diameter (mm)						
Gradient (%)						
Length (m)						
Gradient of Road (‰)						
Road design Elevation (m)						
Existing Ground Elevation (m)	1.83	1.59	1.56	1.51	1.50	1.50
Earth Covering (m)						
Invert Elevation (m)						

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

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THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
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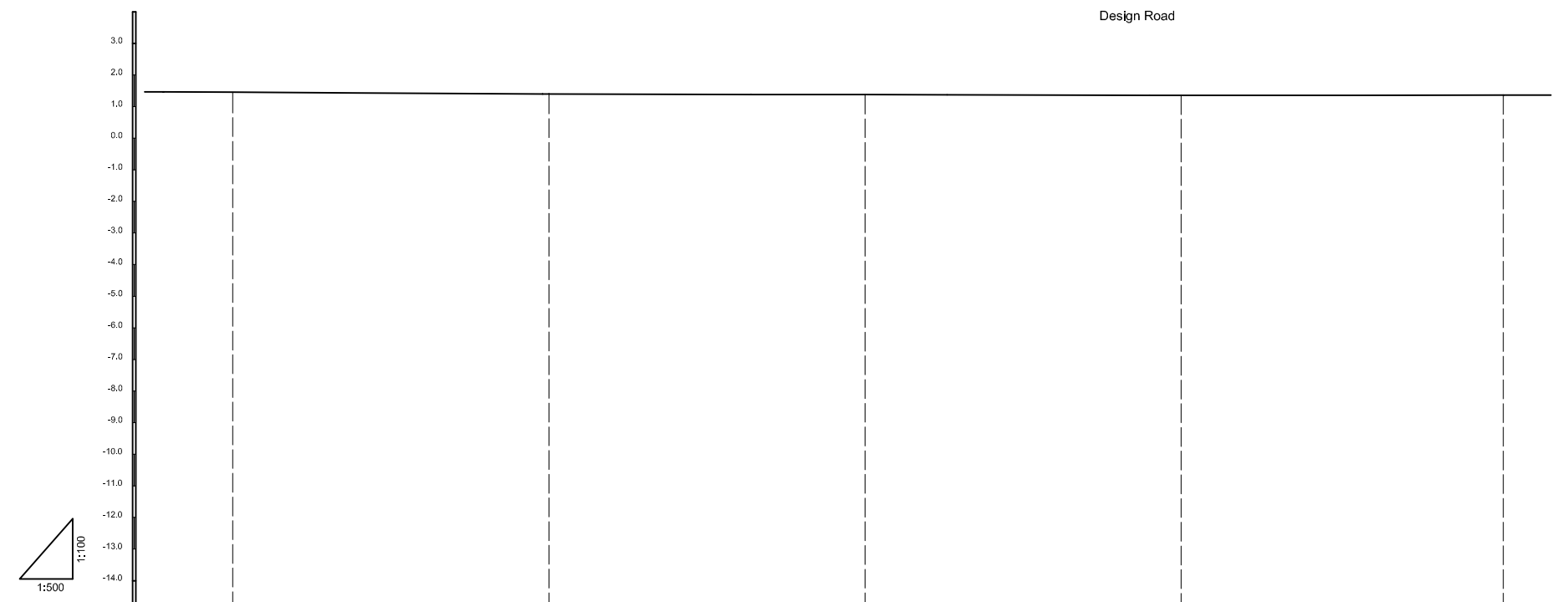
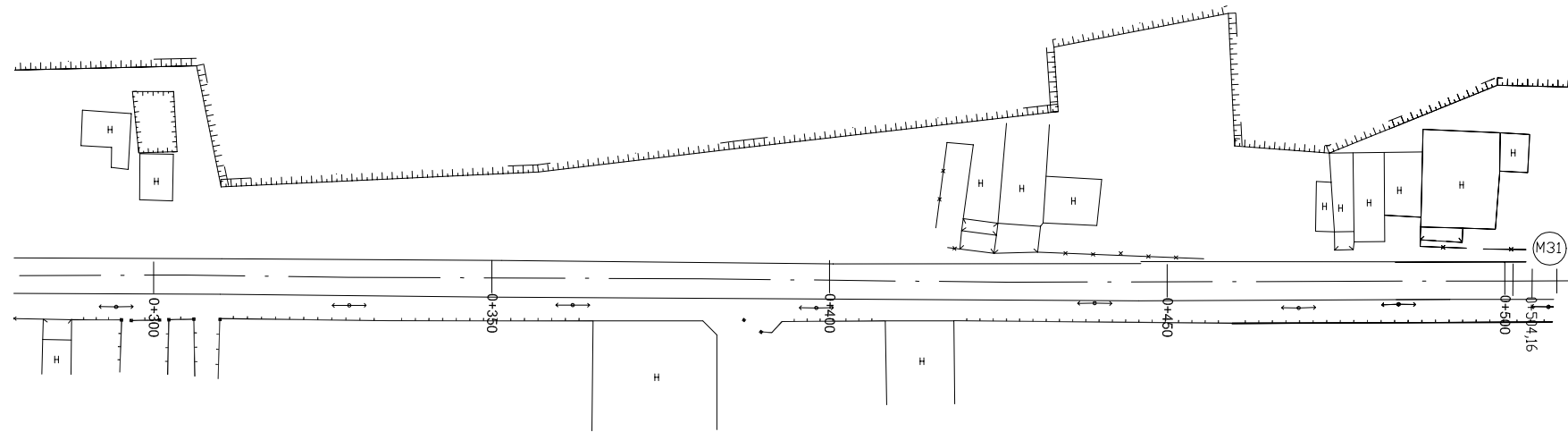
BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (12)

SCALE : AS SHOWN

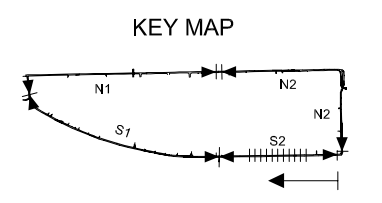
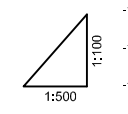
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	CHECKED
DATE :	DWG. No.



Location of Survey	0+300	0+350	0+400	0+450	0+500
Manhole Number					
Diameter (mm)					
Gradient (‰)					
Length (m)					
Gradient of Road (‰)					
Road design Elevation (m)					
Existing Ground Elevation (m)	1.46	1.40	1.39	1.36	1.37
Earth Covering (m)					
Invert Elevation (m)					



NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

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THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

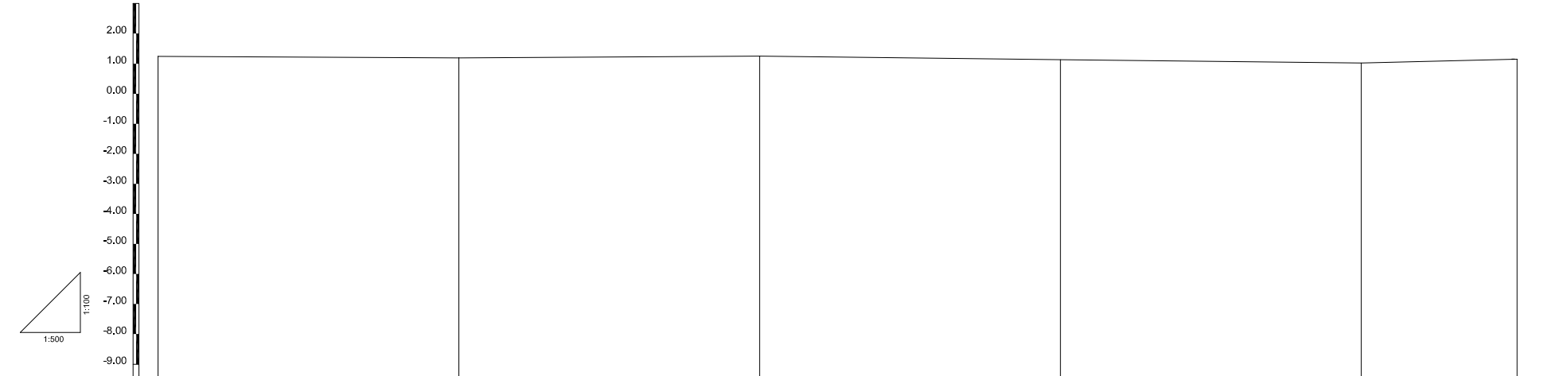
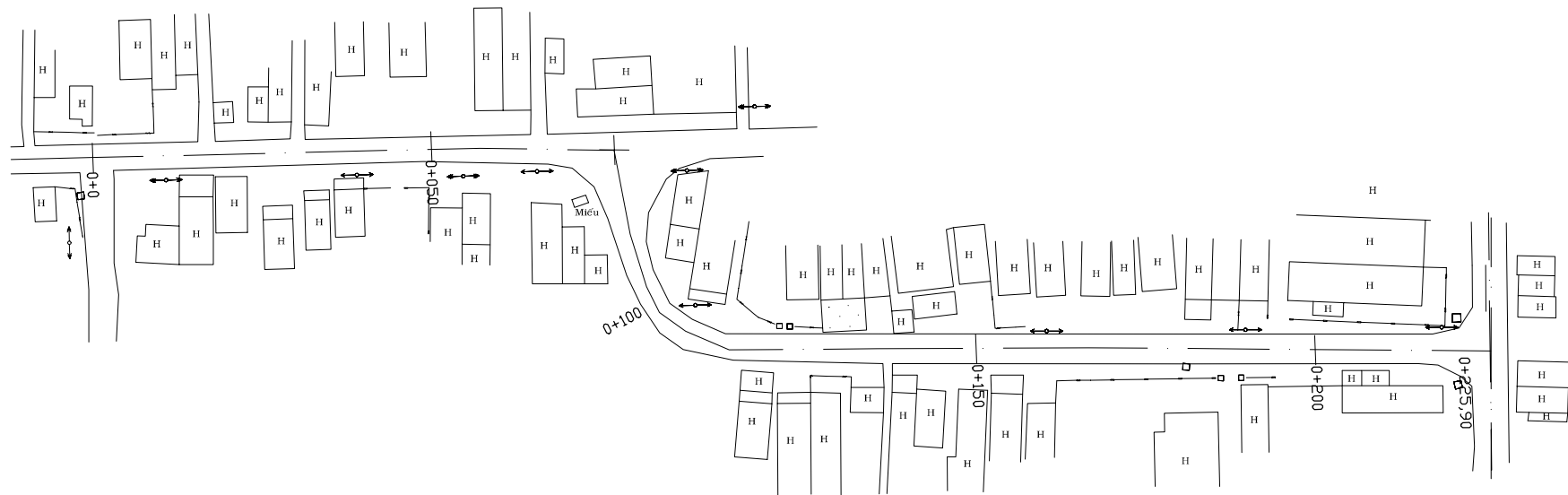
BEN ME COC (2) AREA
PLAN AND LONGITUDINAL SURVEY
OF SEWER ROUTE (13)

SCALE : AS SHOWN

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

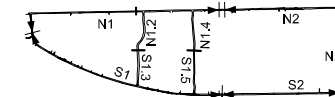
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	CHECKED
DATE :	DWG. No.



Location of survey	0+00	0+50	0+100	0+150	0+200	0+225.9
Manhole Number						
Diameter (mm)						
Gradient (‰)						
Length (m)						
Gradient of Road (‰)						
Road design Elevation (m)						
Ground Elevation (m)	1.24	1.19	1.25	1.13	1.02	1.15
Earth Covering (m)						
Invert Elevation (m)						
Total Accumulation Length (m)						

KEY MAP



LEGEND

	Bank
	barbed wire
	Retaining wall
	Fencing
	Culvert
	Manhole
	Grass land
	Coconut tree
	Electric Transforming Station
	Electric Pole

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

BEN ME COC (2) AREA
**PLAN AND PROFILE OF SEWER,
ROAD AND TEMPORARY DIKE (14)**
(BM2 - N1.2)

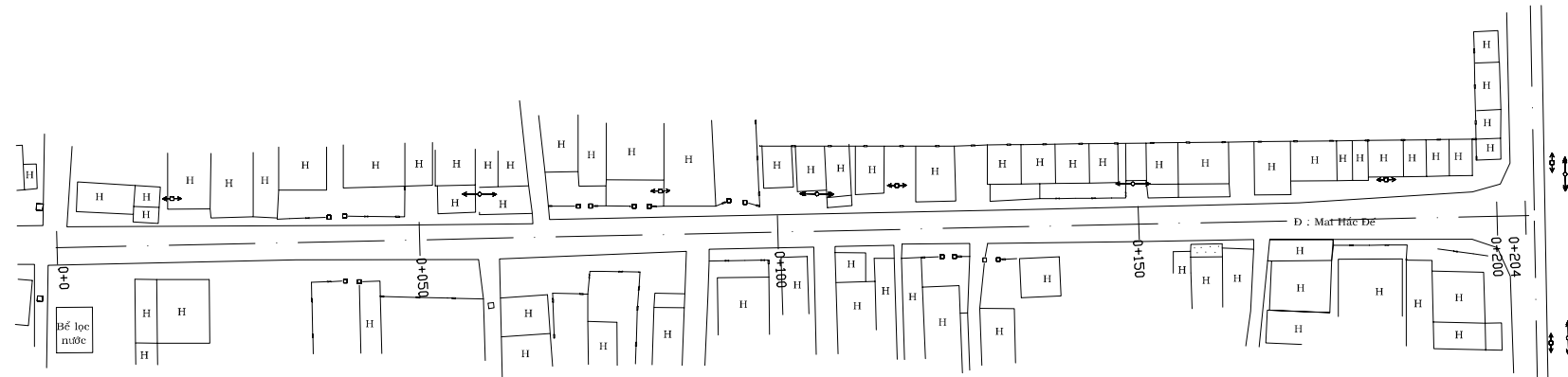
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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

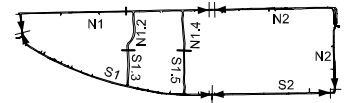
DESIGNED _____ CHECKED _____

DATE : _____ DWG. No. _____



Location of survey	0+00	0+50	0+100	0+150	0+200
Manhole Number					
Diameter (mm)					
Gradient (‰)					
Length (m)					
Gradient of Road (‰)					
Road design Elevation (m)	1.394	1.296	1.194	1.094	0.994
Ground Elevation (m)					
Earth Covering (m)					
Invert Elevation (m)					
Total Accumulation Length (m)					

KEY MAP



LEGEND

	Bank
	barbed wire
	Retaining wall
	Fencing
	Culvert
	Manhole
	Grass land
	Coconut tree
	Electric Transforming Station
	Electric Pole

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

BEN ME COC (2) AREA
**PLAN AND PROFILE OF SEWER,
ROAD AND TEMPORARY DIKE (15)**
(BM2 - N1.4)

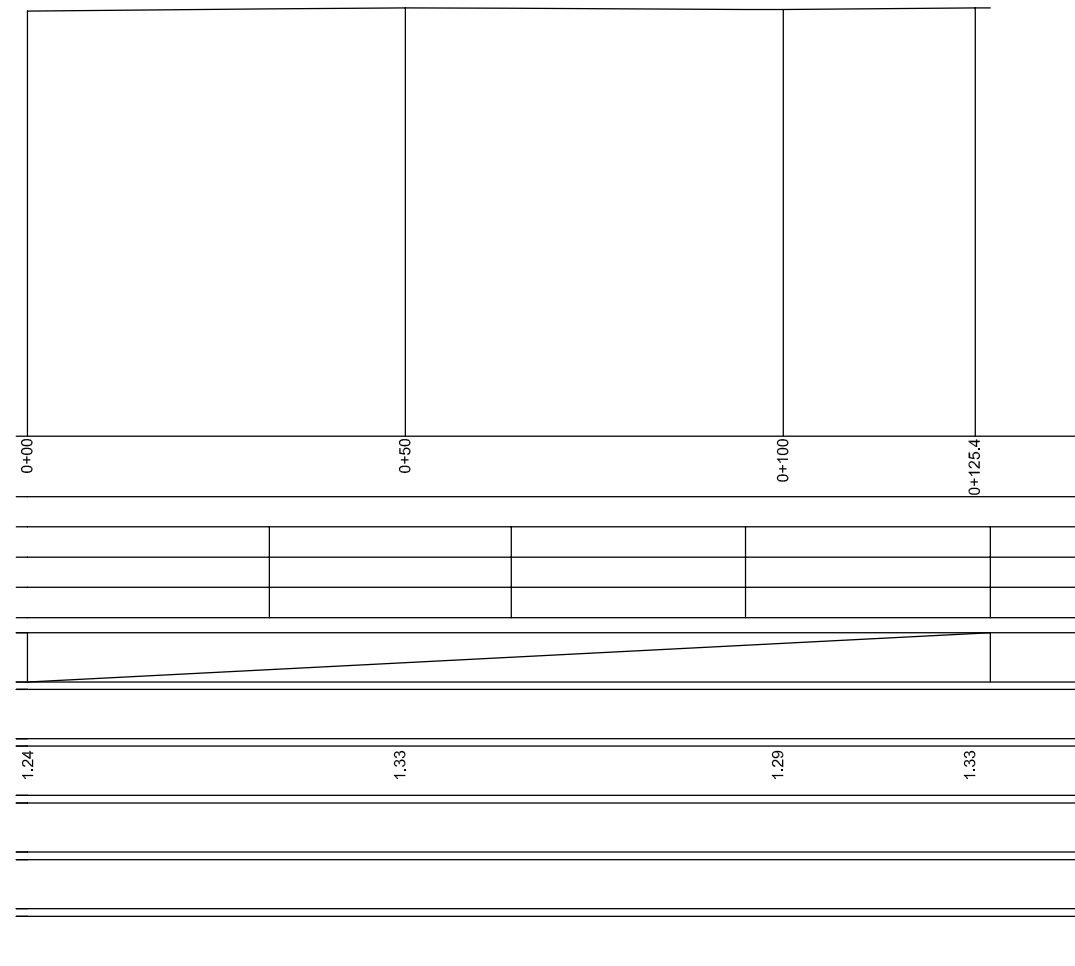
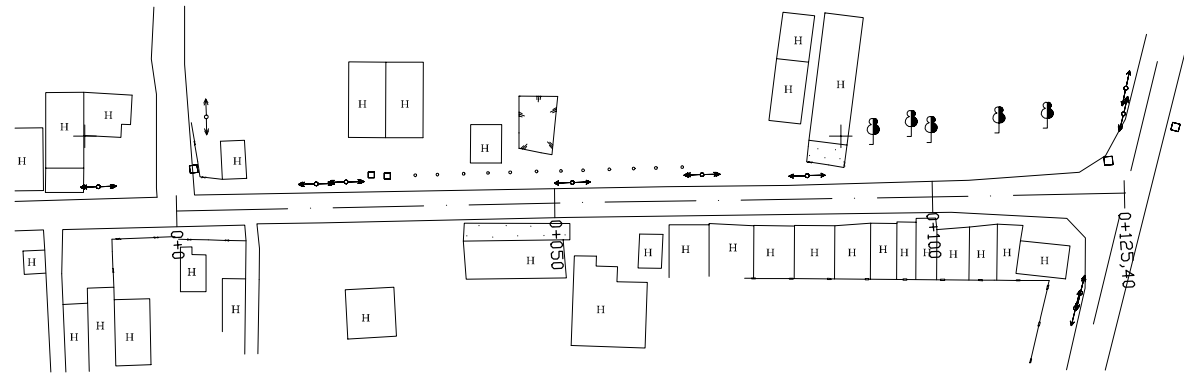
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JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

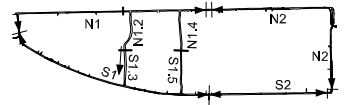
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED _____ CHECKED _____

DATE : _____ DWG. No. _____



KEY MAP



LEGEND

	Bank
	barbed wire
	Retaining wall
	Fencing
	Culvert
	Manhole
	Grass land
	Coconut tree
	Electric Transforming Station
	Electric Pole

NO.	DATE	DESCRIPTIONS	BY	APRO.
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REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

BEN ME COC (2) AREA
PLAN AND PROFILE OF SEWER,
ROAD AND TEMPORARY DIKE (16)
(BM2 - S1.3)

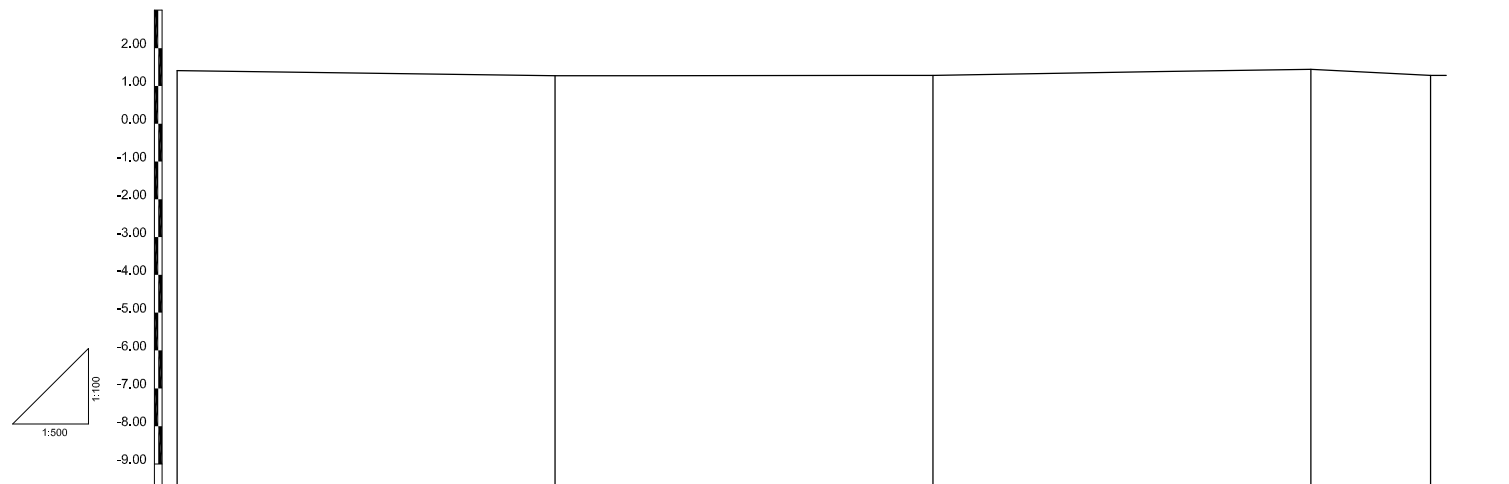
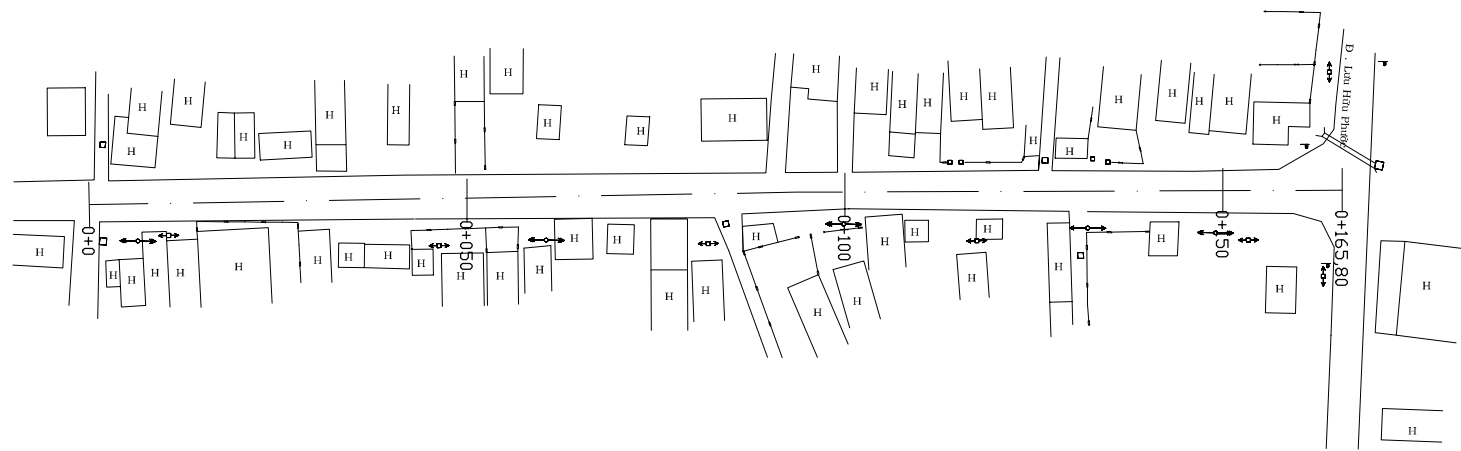
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JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

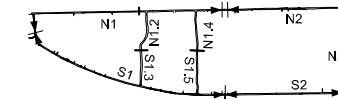
DESIGNED _____ CHECKED _____

DATE : _____ DWG. No. _____



Location of survey	0+00	0+50	0+100	0+150	0+165.8
Manhole Number					
Diameter (mm)					
Gradient (%)					
Length (m)					
Gradient of Road (%)					
Road design Elevation (m)					
Ground Elevation (m)	1.40	1.27	1.28	1.44	1.28
Earth Covering (m)					
Invert Elevation (m)					
Total Accumulation Length (m)					

KEY MAP



LEGEND

	Bank
	barbed wire
	Retaining wall
	Fencing
	Culvert
	Manhole
	Grass land
	Coconut tree
	Electric Transforming Station
	Electric Pole

NO.	DATE	DESCRIPTIONS	BY	APRO.
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REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

BEN ME COC (2) AREA
**PLAN AND PROFILE OF SEWER,
ROAD AND TEMPORARY DIKE (17)**
(BM2 - S1.5)

SCALE : V= 1:100
H= 1:500

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED _____ CHECKED _____

DATE : _____ DWG. No. _____