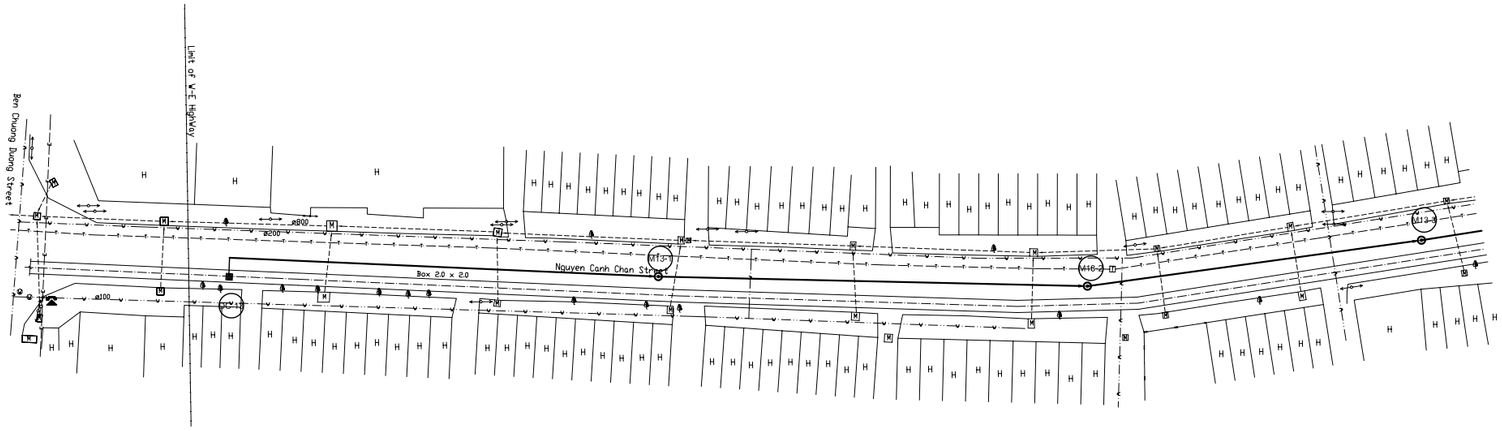
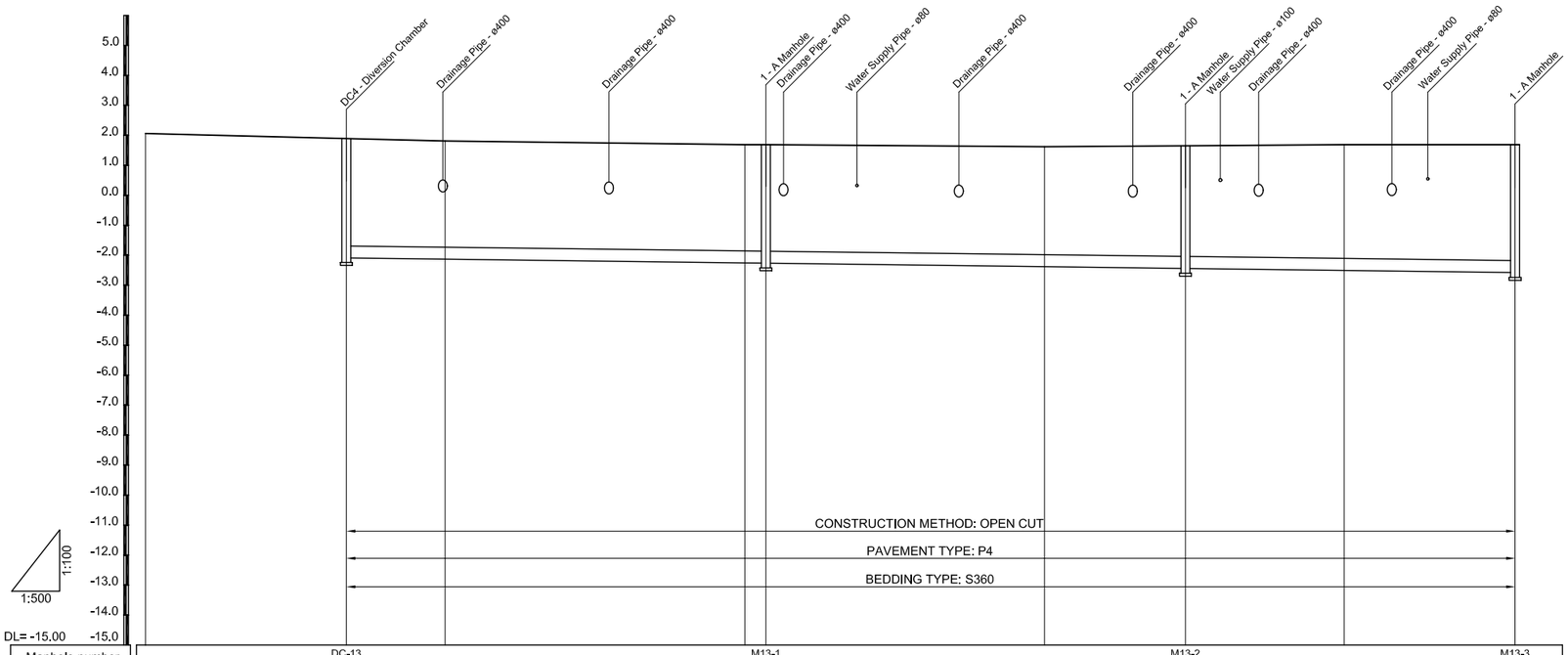
PLAN S = 1/500

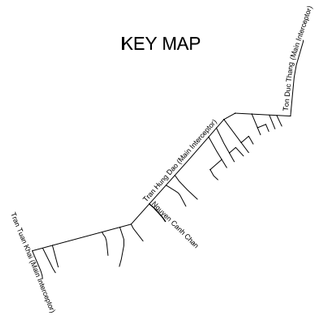


PROFILE S_H = 1/500, S_V = 1/100



Manhole number	DC-13			M13-1		M13-2		M13-3
Diameter (mm)		Ø400			Ø400		Ø400	
Gradient (‰)		2.5			2.5		2.5	
Length (m)		70.0			70.0		55.0	
Ground Elevation (m)	2.06	1.89	1.81	1.69	1.69	1.62	1.65	1.69	1.69
Earth Covering (m)		3.58	3.54	3.55	3.56	3.60	3.69	3.80	3.87
Invert Elevation (m)		-2.09	-2.13	-2.26	-2.27	-2.38	-2.44	-2.51	-2.58
Accumulation Length (m)		0.0	16.5	66.5	70.0	116.5	140.0	166.5	195.0

KEY MAP



LEGEND

- Sewer Line
- Sewer Line
- Planded Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Requlred for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

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

PACKAGE C
INTERCEPTOR SEWER CONSTRUCTION

PLAN AND PROFILE OF SECONDARY INTERCEPTOR SEWER (18)

SCALE : AS SHOWN

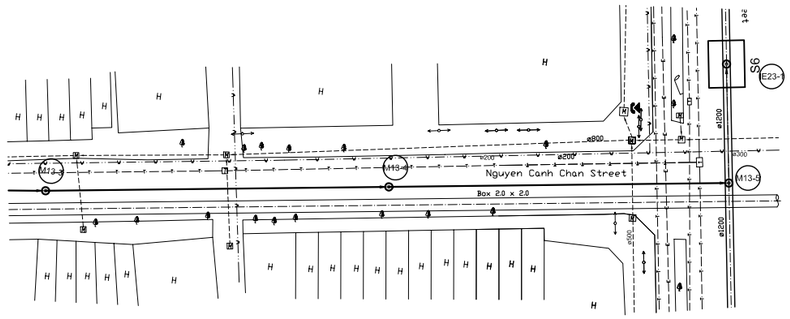
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

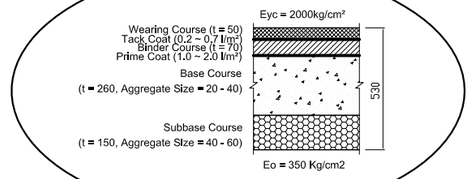
DESIGNED	CHECKED
SATO NOBUYUKI	KONDO MASAMI

DATE : JUNE 2001 | DWG. No. PC - ISC - 240

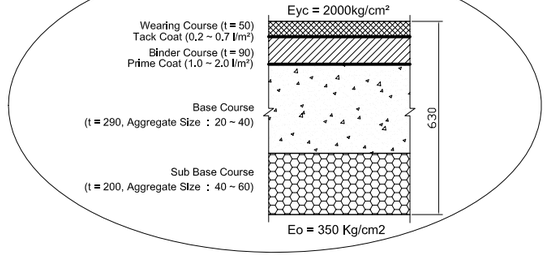
PLAN S = 1/500



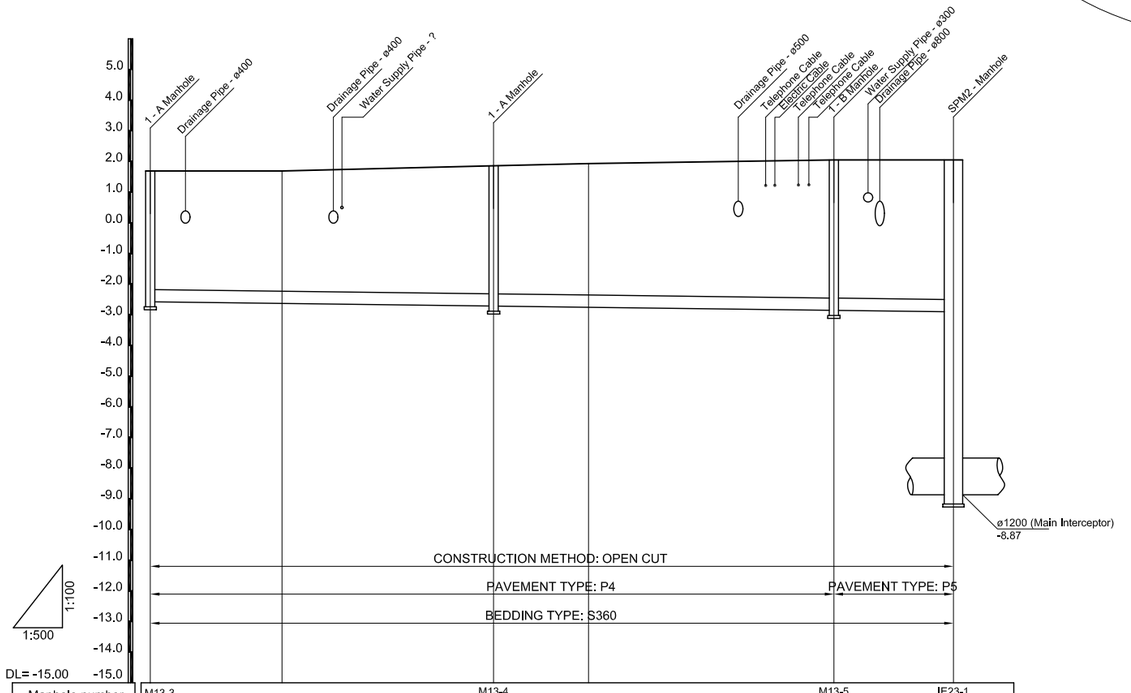
PAVEMENT TYPE P4



PAVEMENT TYPE P5

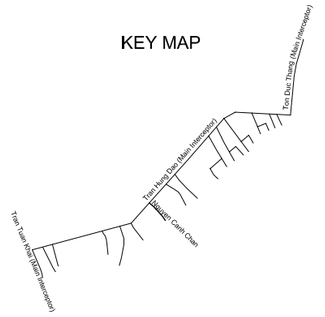


PROFILE S_H = 1/500, S_V = 1/100



Manhole number	M13-3		M13-4		M13-5	IE23-1
Diameter (mm)	Ø400		Ø400		Ø400	
Gradient (‰)	2.5		2.5		2.5	
Length (m)	56.0		55.5		19.5	
Ground Elevation (m)	1.69	1.69	1.86	1.93	2.05	2.05
Earth Covering (m)	3.87	3.92	4.18	4.29	4.51	4.55
Invert Elevation (m)	-2.58	-2.63	-2.72	-2.76	-2.86	-2.90
Accumulation Length (m)	195.0	216.5	251.0	266.5	306.5	326.0

KEY MAP



LEGEND

- Sewer Line
- Sewer Line
- Planded Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Requlred for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

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

PACKAGE C
INTERCEPTOR SEWER CONSTRUCTION

PLAN AND PROFILE OF SECONDARY INTERCEPTOR SEWER (19)

SCALE : AS SHOWN

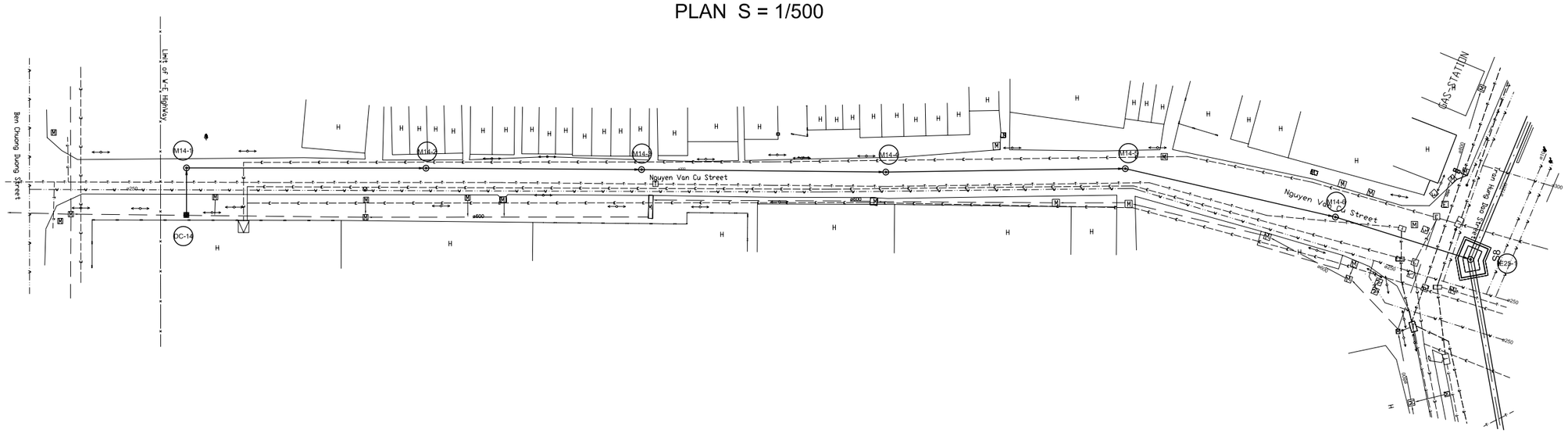
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

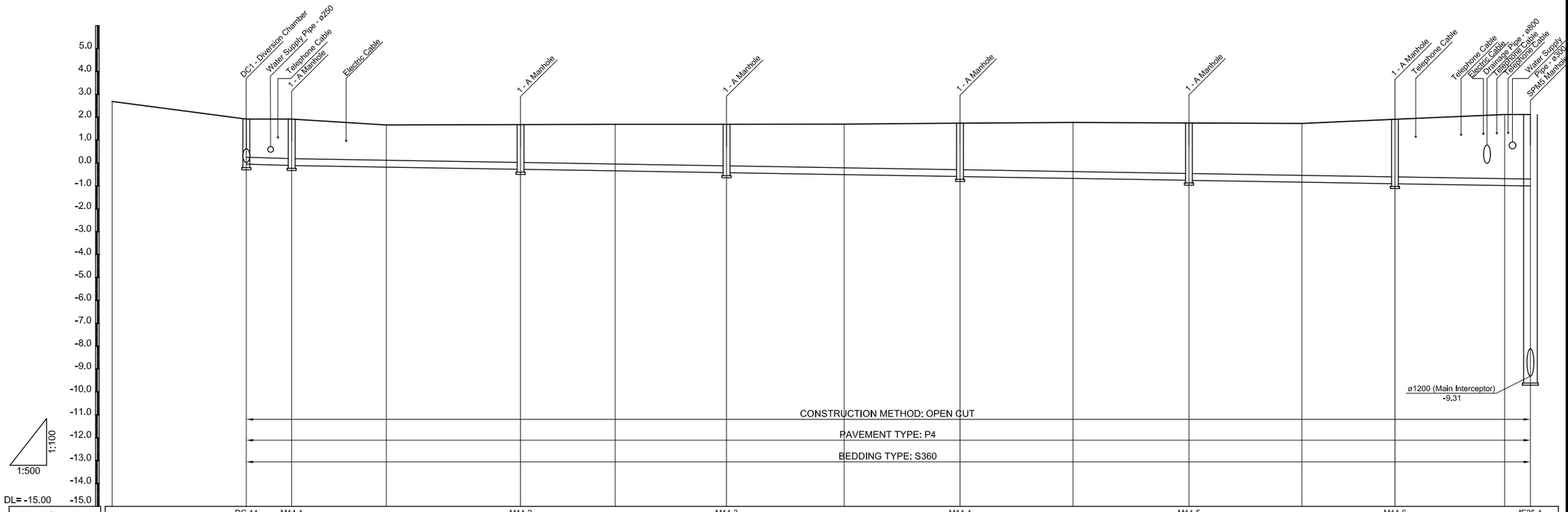
DESIGNED	CHECKED
SATO NOBUYUKI	KONDO MASAMI

DATE : JUNE 2001 | DWG. No. PC - ISC - 241

PLAN S = 1/500

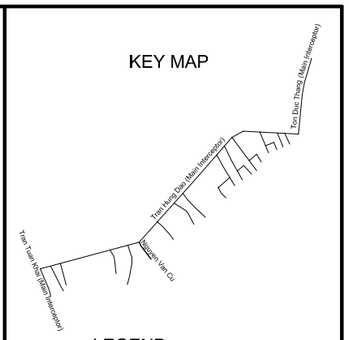


PROFILE S_H = 1/500, S_V = 1/100



Manhole number		DC-14	M14-1	M14-2	M14-3	M14-4	M14-5	M14-6	IE25-1
Diameter (mm)		Ø300	Ø300	Ø300	Ø300	Ø300	Ø300	Ø300	
Gradient (‰)		6	3.3	3.3	3.3	3.3	3.3	3.3	
Length (m)		9.9	50.0	45.0	51.0	50.0	45.0	29.6	
Ground Elevation (m)	2.69	1.92	1.92	1.66	1.68	1.69	1.69	1.70	1.74	1.77	1.75	1.73	1.91	2.12	2.12
Earth Covering (m)		1.67	1.73	1.54	1.65	1.73	1.81	1.91	2.03	2.14	2.21	2.27	2.52	2.80	2.82
Invert Elevation (m)		-0.05	-0.11	-0.18	-0.27	-0.34	-0.42	-0.51	-0.59	-0.67	-0.76	-0.84	-0.91	-0.98	-1.00
Accumulation Length (m)	0	0.0	9.9	30.6	59.9	80.6	104.9	130.6	155.9	180.6	205.9	230.6	250.9	274.9	280.5

KEY MAP



LEGEND

- Sewer Line
- Sewer Line
- Planded Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Requlred for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

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

PACKAGE C
INTERCEPTOR SEWER CONSTRUCTION

PLAN AND PROFILE OF SECONDARY INTERCEPTOR SEWER (20)

SCALE : AS SHOWN

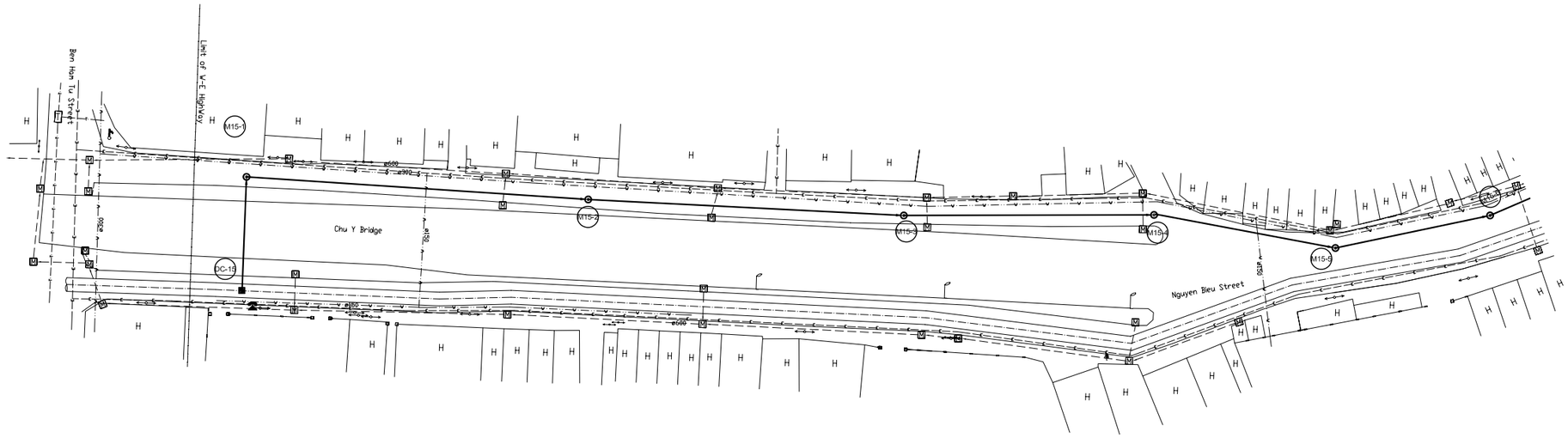
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

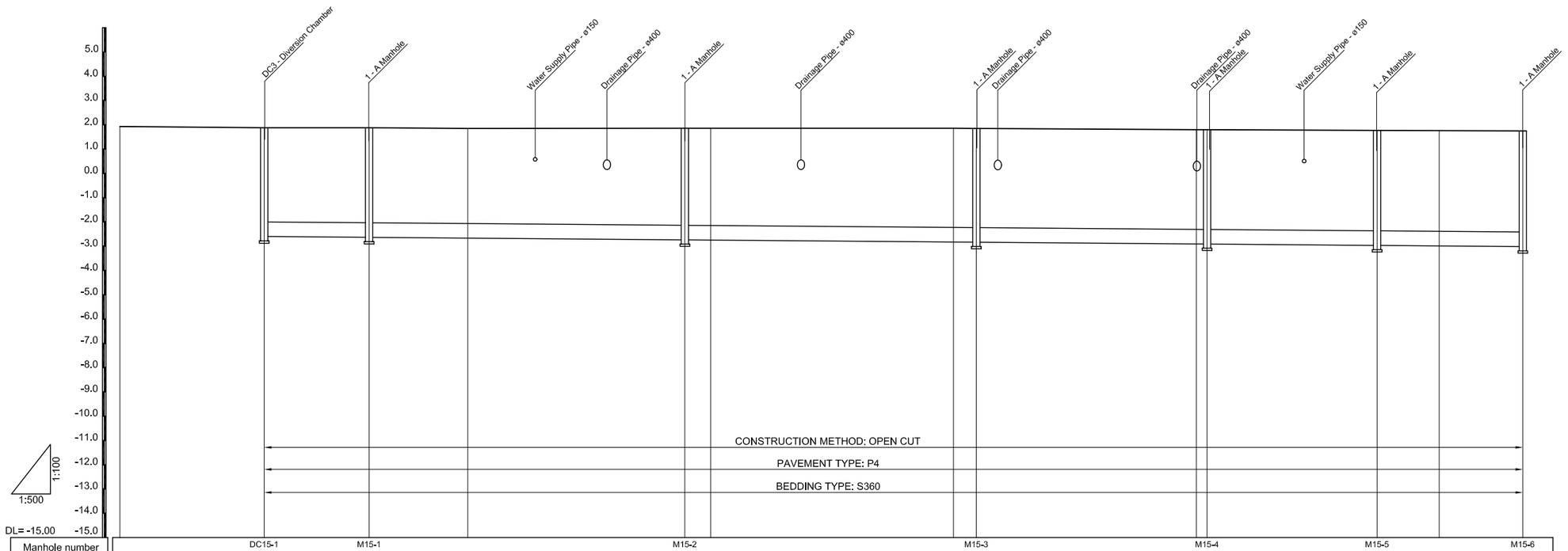
DESIGNED	CHECKED
SATO NOBUYUKI	KONDO MASAMI

DATE : JUNE 2001 | DWG. No. PC - ISC - 242

PLAN S = 1/500

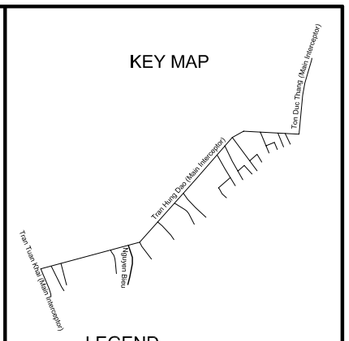


PROFILE S_H = 1/500, S_V = 1/100



Manhole number	DC15-1	M15-1	M15-2	M15-3	M15-4	M15-5	M15-6
Diameter (mm)		Ø600	Ø600	Ø600	Ø600	Ø600	Ø600
Gradient(‰)		1.6	1.6	1.6	1.6	1.6	1.6
Length (m)		21.6	65.0	60.0	47.5	35.0	30.0
Ground Elevation (m)	1.93	1.88	1.88 1.85	1.86 1.86	1.86 1.85	1.80 1.80	1.77 1.76 1.75
Earth Covering (m)		3.88	3.92 3.92	4.00 4.01	4.09 4.09	4.11 4.11	4.14 4.15 4.17
Invert Elevation (m)		-3.12	-3.15 -3.19	-3.26 -3.27	-3.35 -3.36	-3.43 -3.43	-3.49 -3.51 -3.54
Accumulation Length (m)	0.0	21.6	41.9	86.6 91.9	141.9 146.6	191.9 194.1	229.1 241.9 259.1

KEY MAP



LEGEND

- Sewer Line
- Sewer Line
- Planded Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Required for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

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

PACKAGE C
INTERCEPTOR SEWER CONSTRUCTION

PLAN AND PROFILE OF SECONDARY INTERCEPTOR SEWER (21)

SCALE : AS SHOWN

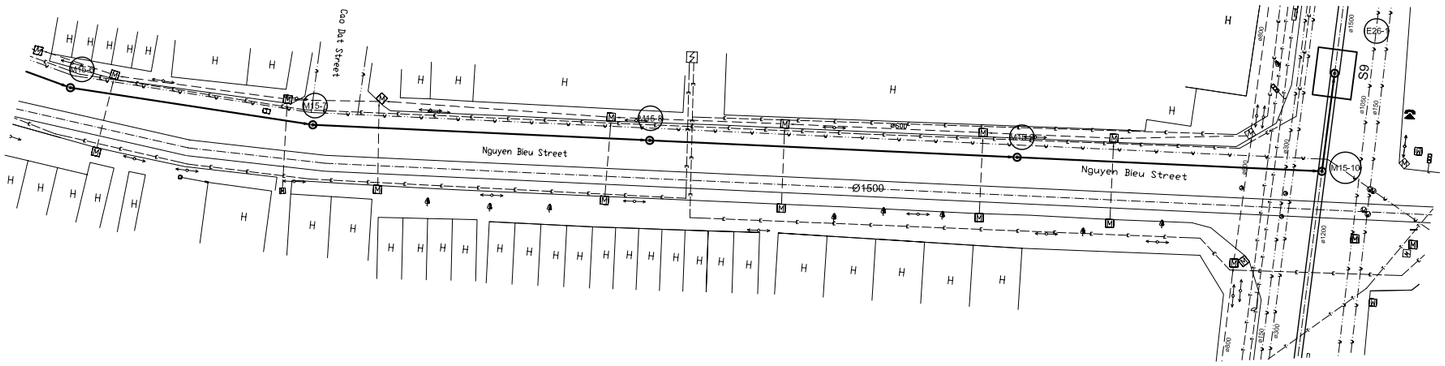
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

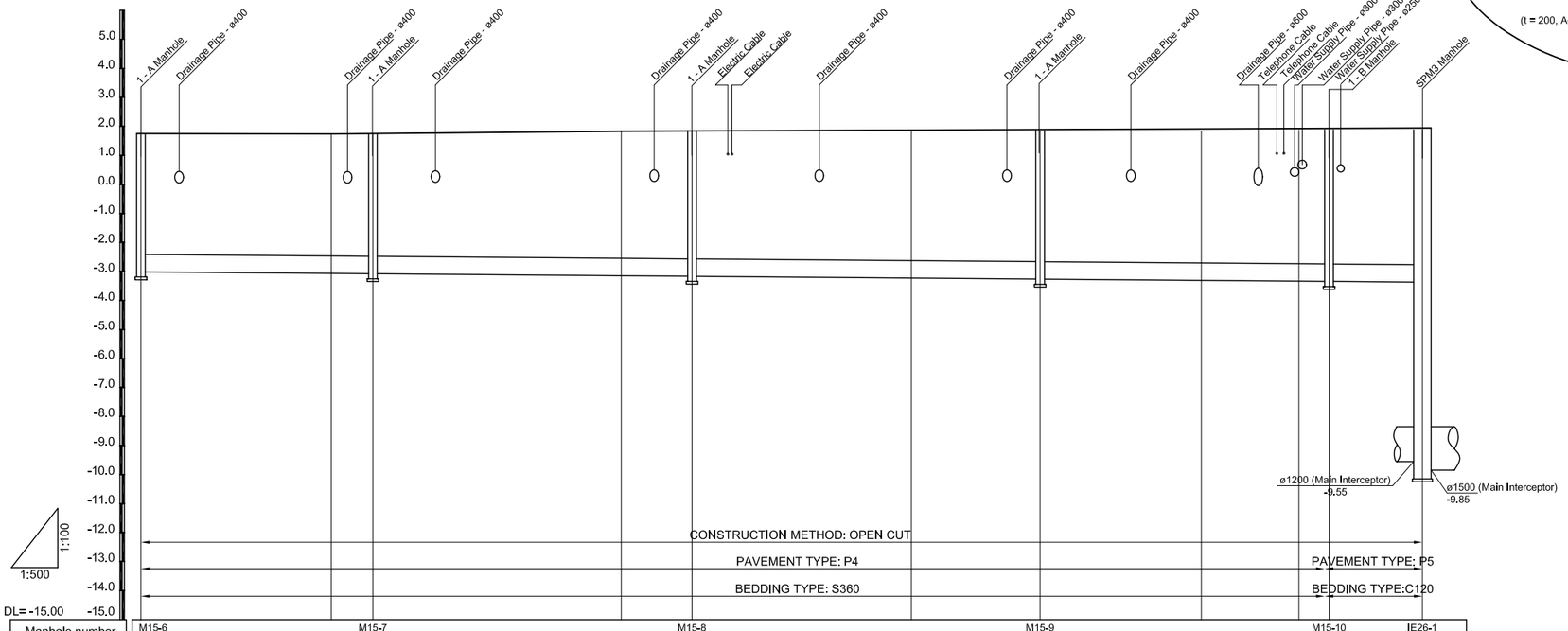
DESIGNED	CHECKED
SATO NOBUYUKI	KONDO MASAMI

DATE : JUNE 2001 | DWG. No. PC - ISC - 243

PLAN S = 1/500

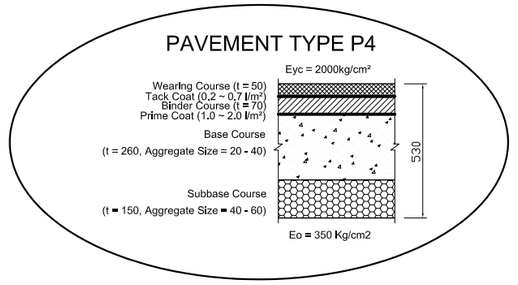


PROFILE S_H = 1/500, S_V = 1/100

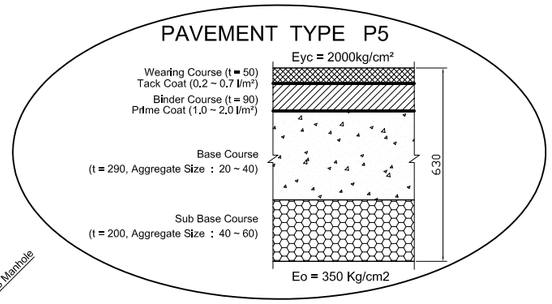


Manhole number	M15-6	M15-7	M15-8	M15-9	M15-10	IE26-1
Diameter (mm)	Ø600	Ø600	Ø600	Ø600	Ø600	
Gradient (‰)	1.6	1.6	1.6	1.6	1.6	
Length (m)	40.0	55.0	60.0	49.8	16.1	
Ground Elevation (m)	1.75	1.74	1.75	1.83	1.84	1.86	1.85	1.83	1.88	1.88	1.88
Earth Covering (m)	4.17	4.21	4.23	4.38	4.41	4.49	4.51	4.54	4.61	4.62	4.65
Invert Elevation (m)	-3.54	-3.59	-3.60	-3.67	-3.69	-3.75	-3.76	-3.83	-3.85	-3.86	-3.89
Accumulation Length (m)	259.1	291.9	299.1	341.9	354.1	391.9	414.1	441.9	458.7	463.9	480.0

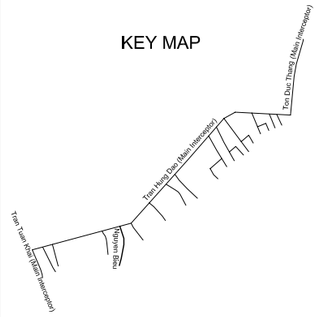
PAVEMENT TYPE P4



PAVEMENT TYPE P5



KEY MAP



LEGEND

- Sewer Line
- Sewer Line
- Planded Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Required for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

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

PACKAGE C
INTERCEPTOR SEWER CONSTRUCTION

PLAN AND PROFILE OF SECONDARY INTERCEPTOR SEWER (22)

SCALE : AS SHOWN

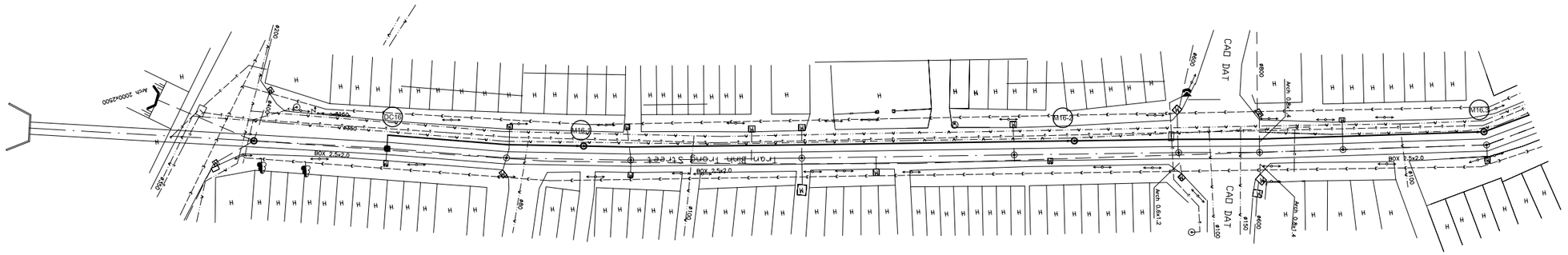
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

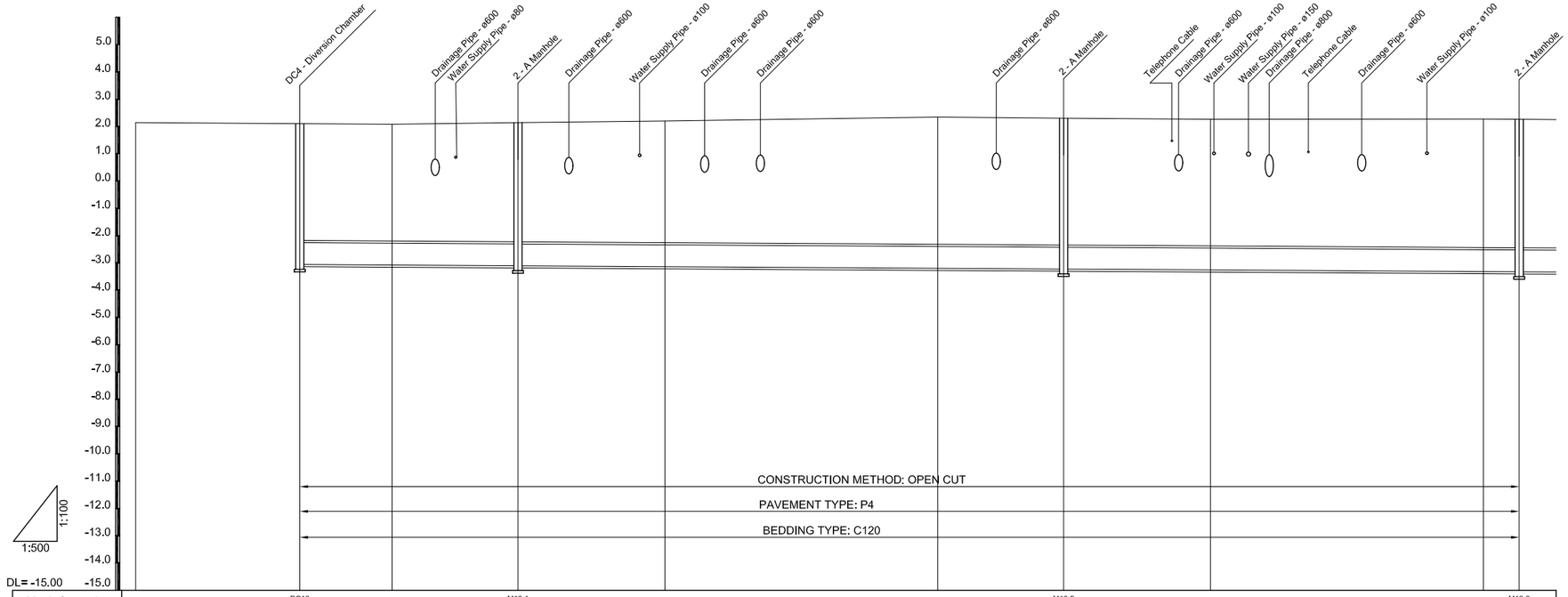
DESIGNED	CHECKED
SATO NOBUYUKI	KONDO MASAMI

DATE : JUNE 2001 | DWG. No. PC - ISC - 244

PLAN S = 1/500

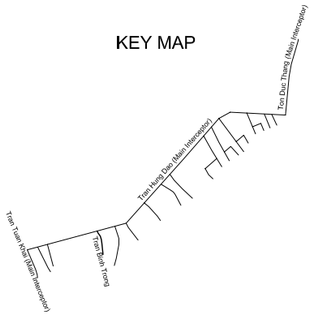


PROFILE S_H = 1/500, S_V = 1/100



Manhole number	DC16	M16-1	M16-2	M16-3
Diameter (mm)	Ø800	Ø800	Ø800	
Gradient (‰)	1.2	1.2	1.2	
Length (m)	40.0	100.0	83.5	
Ground Elevation (m)	2.14	2.10 2.08 2.14 2.20	2.34 2.30 2.26	2.27 2.26
Earth Covering (m)	4.36	4.36 4.45 4.54	4.74 4.73 4.72	4.79 4.79
Invert Elevation (m)	-3.06	-3.08 -3.11 -3.14	-3.20 -3.23 -3.26	-3.32 -3.33
Accumulation Length (m)	0.0	16.9 40.0 66.9	116.9 140.0 166.9	216.9 223.5

KEY MAP



LEGEND

- Sewer Line
- Sewer Line
- Planded Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Telephone Cable Inspection Chamber
- Electric Cable Inspection Chamber
- Fire Hydrant
- S4 - Area to be Requlred for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

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

PACKAGE C
INTERCEPTOR SEWER CONSTRUCTION

PLAN AND PROFILE OF SECONDARY INTERCEPTOR SEWER (23)

SCALE : AS SHOWN

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED	CHECKED
SATO NOBUYUKI	KONDO MASAMI

DATE : JUNE 2001 | DWG. No. PC - ISC - 245