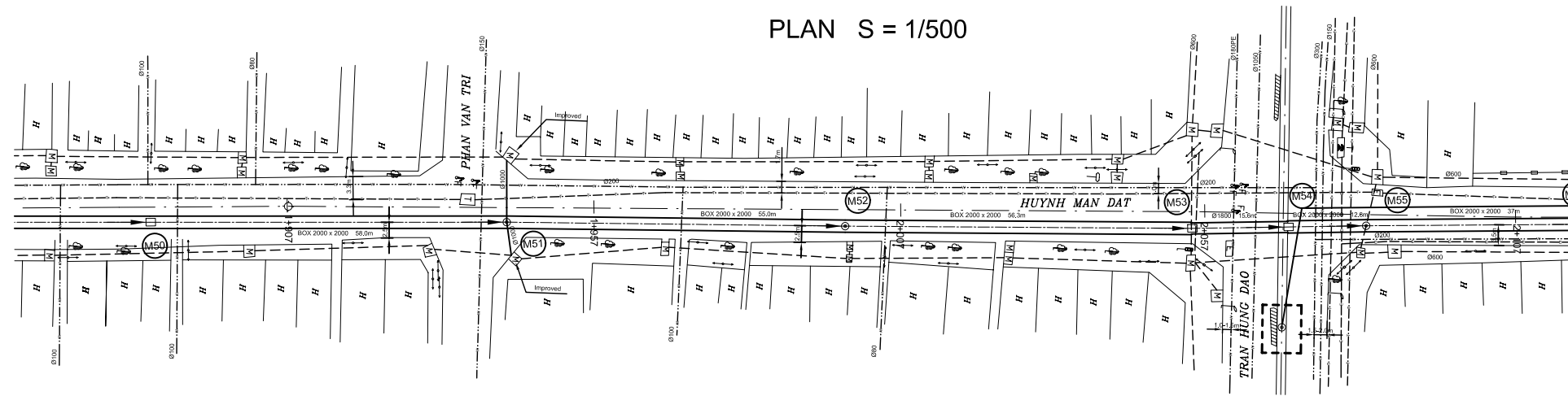
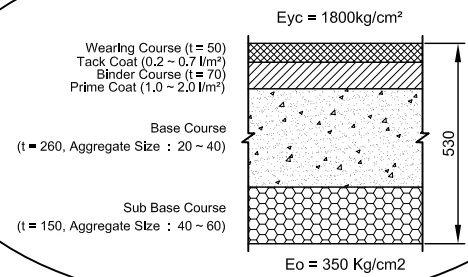


PLAN S = 1/500

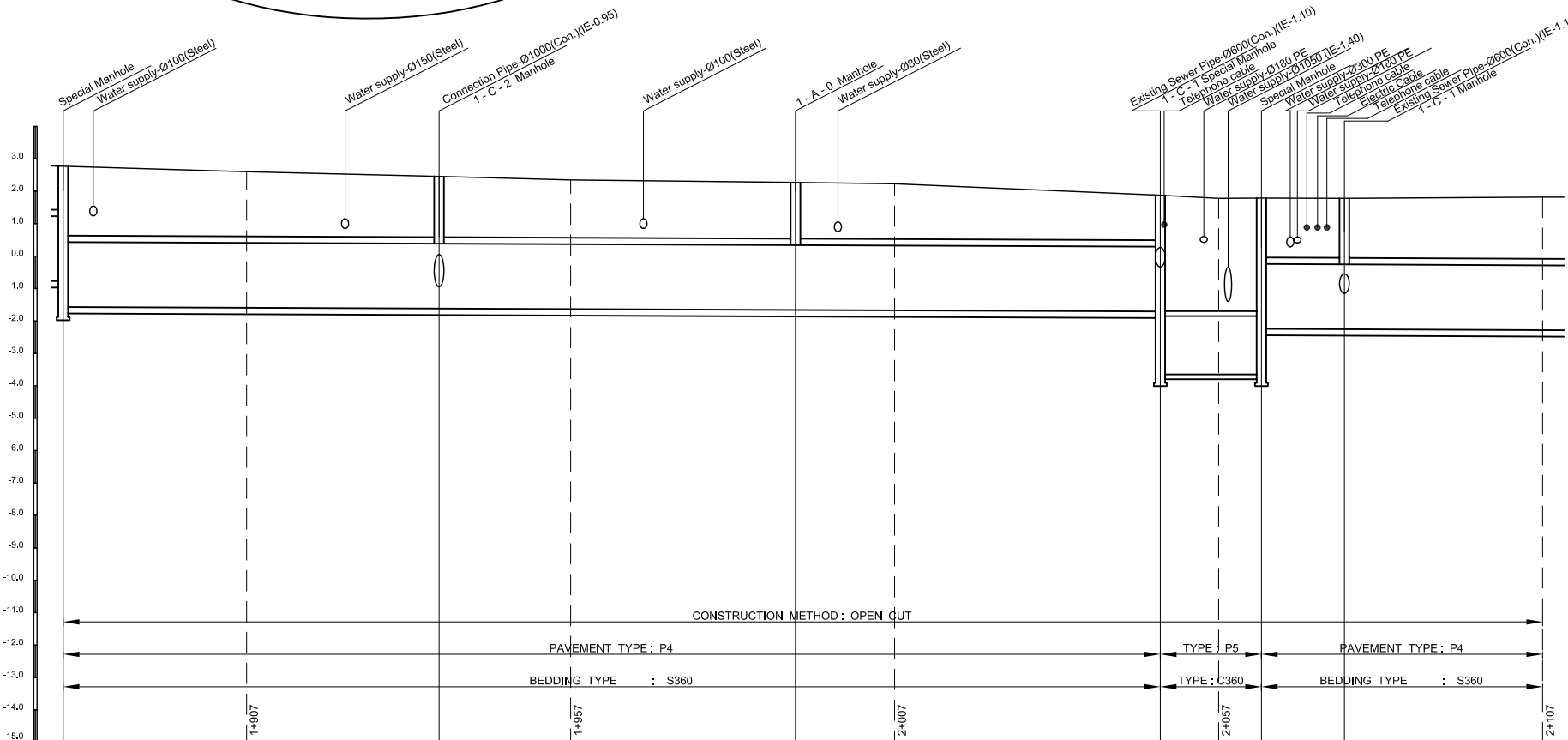
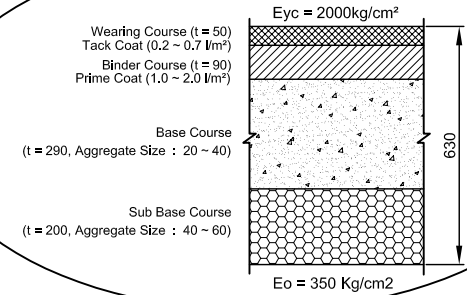


PAVEMENT TYPE P4



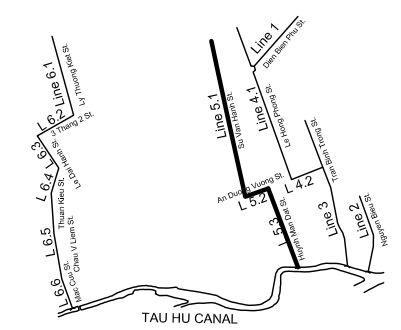
PROFILE $S_H = 1/500, S_V = 1/100$

PAVEMENT TYPE P5

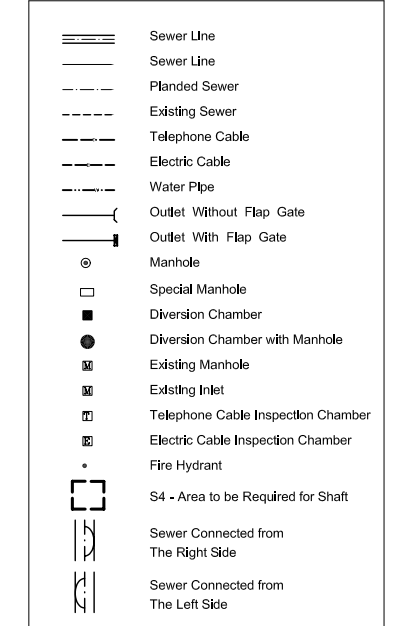


Manhole Number	M50	T1+907	M51	T1+957	M52	2+007	M53	2+067	M54	M55	2+107
Diameter (mm)		Box 2000 x 2000		Box 2000 x 2000		Box 2000 x 2000	Ø1800	2000 x 2000		Box 2000 x 2000	
Gradient (%)		0.80		0.80		0.80	LEVEL	0.80		0.80	
Length (m)		58		55		56,3	15,6	12,8		37	
Existing Ground Elevation (m)	2,77	2,60	2,46	2,35	2,27	2,23	1,88	1,78	1,79	1,78	1,82
Earth Covering (m)	1,29 2,17		1,89		1,74		1,43 3,58	3,49 1,88		1,83	
Invert Elevation (m)	-0,72 -1,60	-1,62	-1,63	-1,65	-1,67	-1,68	-1,70 -3,65	-3,65 -5,24		-2,25	-2,27
Total Accumulation Length (m)	1863,7	1892,0	1921,7	1942,0	1976,7	1992,0	2033,0	2042,0	2048,6	2061,4	2092,0

KEYMAP



LEGEND



NO.	DATE	DESCRIPTIONS	BY	APRO.
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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 D
EXISTING COMBINED SEWER IMPROVEMENT

PLAN AND PROFILE
ECSI - LINE 5.3 (8)

SCALE : As Shown

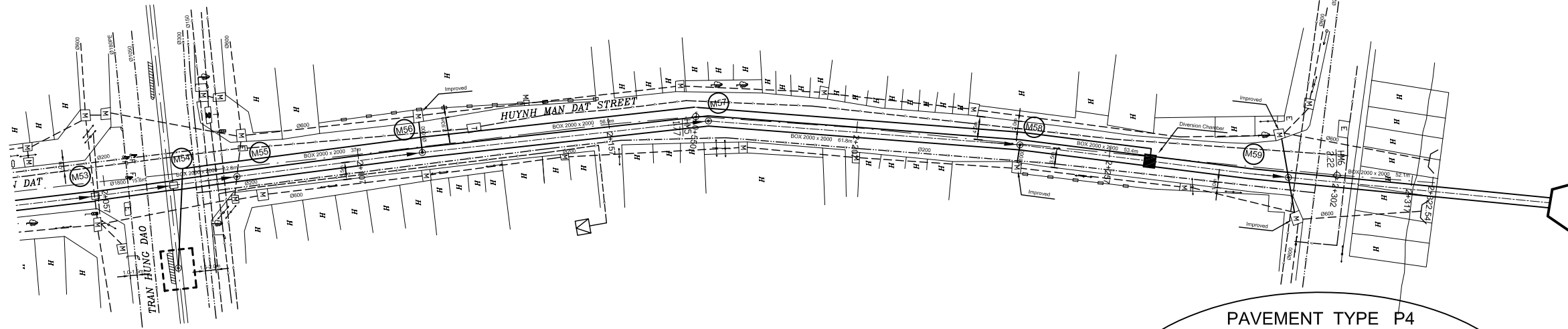
JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

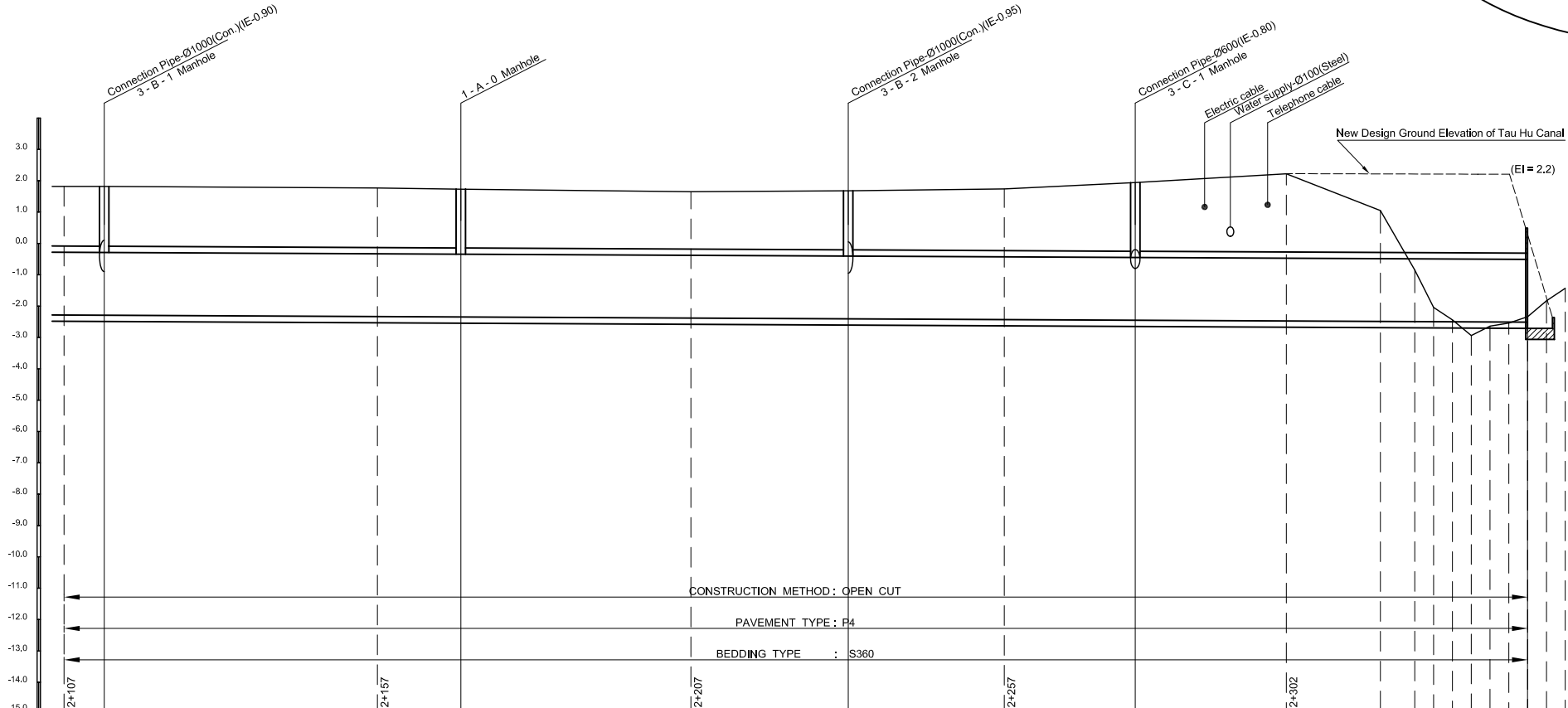
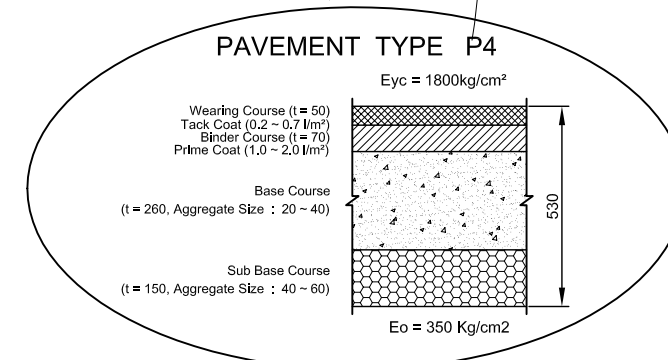
DESIGNED: KATSUKI TAKAOKI
CHECKED: KONDO MASAMI

DATE : JUNE 2001 DWG. No. PD - ECSI - 225

PLAN S = 1/500

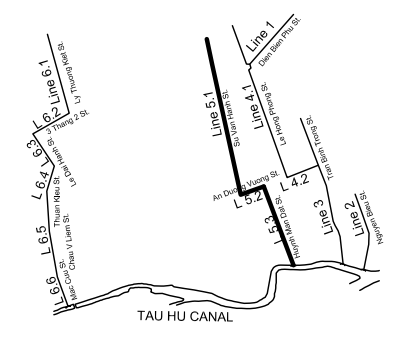


PROFILE S_H = 1/500, S_V = 1/100



Manhole Number	M56		M57		M58		M59		OUTLET
Diameter (mm)	Box 2000 x 2000		Box 2000 x 2000		Box 2000 x 2000		Box 2000 x 2000		Box 2000 x 2000
Gradient (‰)	0.80		0.80		0.80		0.80		
Length (m)	56.9		61.8		45.8		62.6		
Existing Ground Elevation (m)	1.82	1.82	1.77	1.73	1.65	1.68	1.74	1.94	2.22
Earth Covering (m)		1.89		1.83		1.82		2.11	
Invert Elevation (m)	-2.27	-2.27	-2.29	-2.30	-2.32	-2.34	-2.36	-2.37	-2.38
Total Accumulation Length (m)	2092.0	2098.4	2142.0	2155.3	2192.0	2217.1	2242.0	2262.9	2287.0

KEYMAP

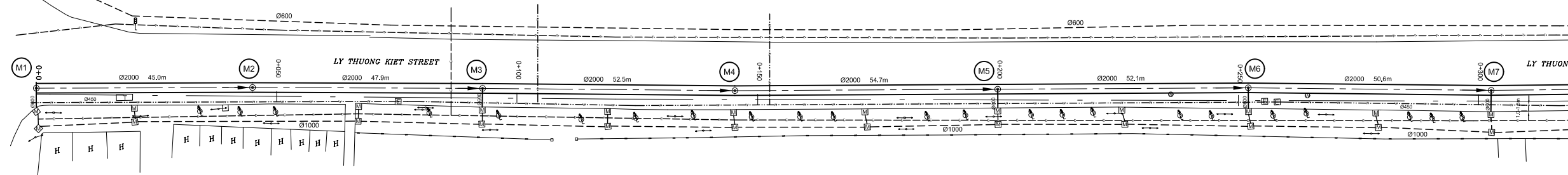


LEGEND

- Sewer Line
- Planned Sewer
- Existing Sewer
- Telephone Cable
- Electric Cable
- Water Pipe
- Outlet Without Flap Gate
- Outlet With Flap Gate
- Manhole
- Special Manhole
- Division Chamber
- Division 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

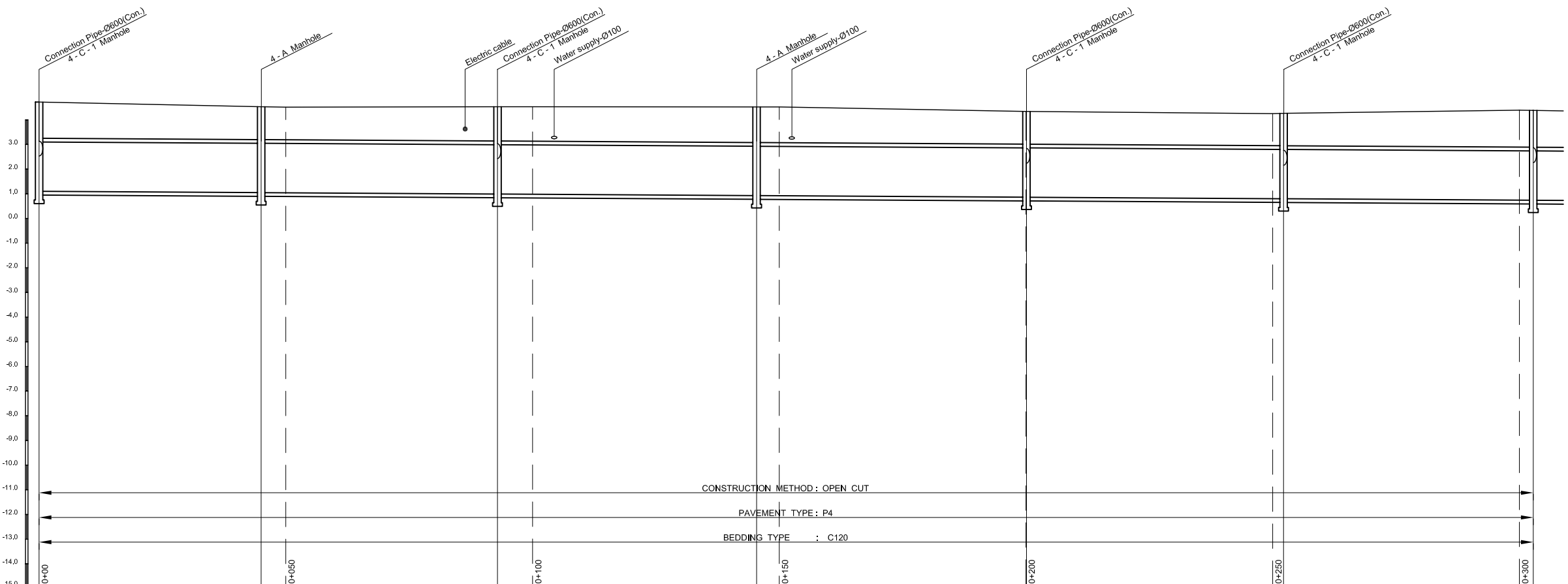
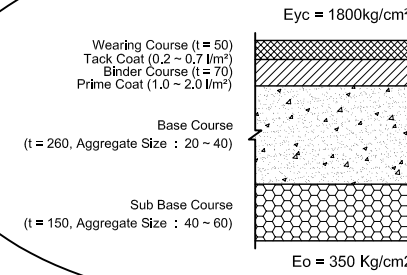
NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE D EXISTING COMBINED SEWER IMPROVEMENT				
PLAN AND PROFILE ECSI - LINE 5.3 (9)				
SCALE : As Shown				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		PACIFIC CONSULTANTS INTERNATIONAL		
DESIGNED KATSUKI TAKAOKI	CHECKED KONDO MASAMI			
DATE : JUNE 2001	DWG. No. PD - ECSI - 226			

PLAN S = 1/500



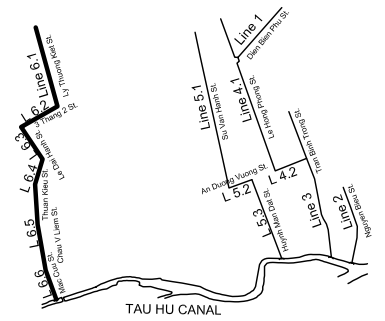
PROFILE SH = 1/500, Sv = 1/100

PAVEMENT TYPE P4



Manhole Number	M1	M2	M3	M4	M5	M6	M7
Diameter (mm)	Ø2000	Ø2000	Ø2000	Ø2000	Ø2000	Ø2000	Ø2000
Gradient (%)	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Length (m)	45.0	47.9	52.5	54.7	52.1	50.6	
Existing Ground Elevation (m)	4.72	4.53	4.53	4.52	4.34	4.25	4.39
Earth Covering (m)	1.47	1.33	1.39	1.44	1.33	1.31	1.49
Invert Elevation (m)	1.10	1.05	0.99	0.93	0.86	0.80	0.74
Total Accumulation Length (m)	0.0	45.0	92.9	145.4	200.0	250.0	300.0

KEYMAP



LEGEND

- Sewer Line
- Sewer Line
- Planned 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 D
EXISTING COMBINED SEWER IMPROVEMENT

PLAN AND PROFILE
ECSI - LINE 6.1 (1)

SCALE : As Shown

JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

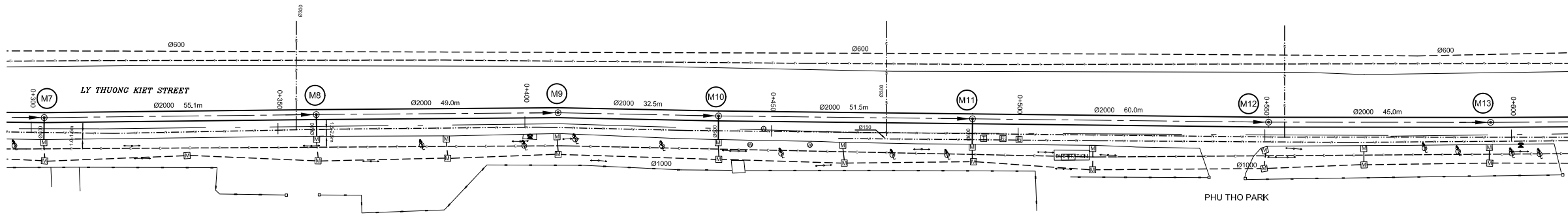
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED
KATSUKI TAKAOKI

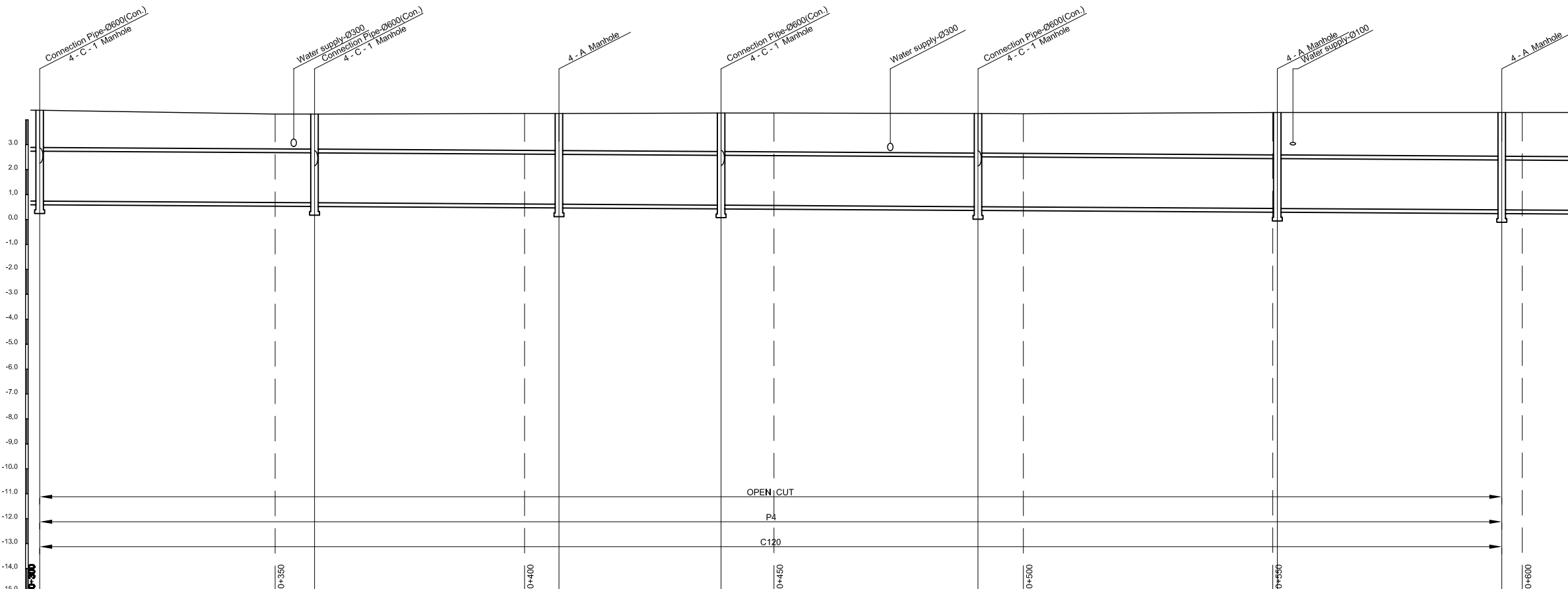
CHECKED
KONDO MASAMI

DATE : JUNE 2001 DWG. No. PD - ECSI - 227

PLAN S = 1/500

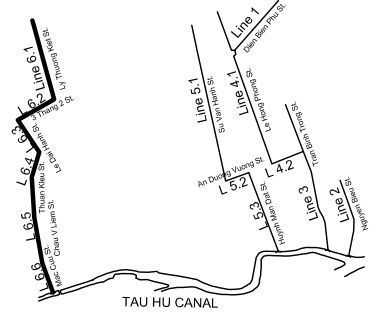


PROFILE S_H = 1/500, S_V = 1/100



Manhole Number	M7		M8		M9		M10		M11		M12		M13			
Diameter (mm)		Ø2000		Ø2000		Ø2000		Ø2000		Ø2000		Ø2000				
Gradient (%)		1.20		1.20		1.20		1.20		1.20		1.20				
Length (m)		55.1		49.0		32.5		51.5		60.0		45.0				
Existing Ground Elevation (m)	4.38		4.23	4.23		4.25	4.25	4.27	4.27		4.25	4.24	4.25	4.29	4.29	
Earth Covering (m)	1.49		1.41		1.49		1.55	1.59		1.59		1.70		1.76	1.76	
Invert Elevation (m)	0.74		0.68	0.67		0.62	0.61	0.57	0.56		0.51	0.50		0.44	0.38	0.38
Total Accumulation Length (m)	302.8		350.0	357.9		400.0	406.9	439.4	450.0		490.9	500.0		550.0	550.9	600.0

KEYMAP



LEGEND

- ==== Sewer Line
- Sewer Line
- - - - - Planted Sewer
- - - - - Existing Sewer
- - - - - Telephone Cable
- - - - - Electric Cable
- - - - - Water Pipe
- |--- Outlet Without Flap Gate
- |--- Outlet With Flap Gate
- Manhole
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- ← 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 D EXISTING COMBINED SEWER IMPROVEMENT				
PLAN AND PROFILE ECSI - LINE 6.1 (2)				
SCALE : As Shown				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED KATSUKI TAKAOKI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PD - ECSI - 228		