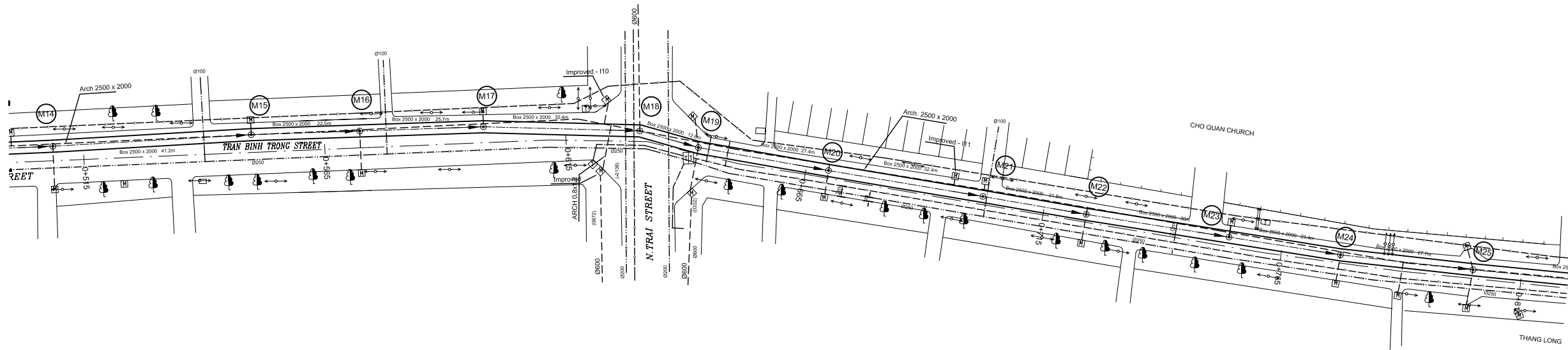
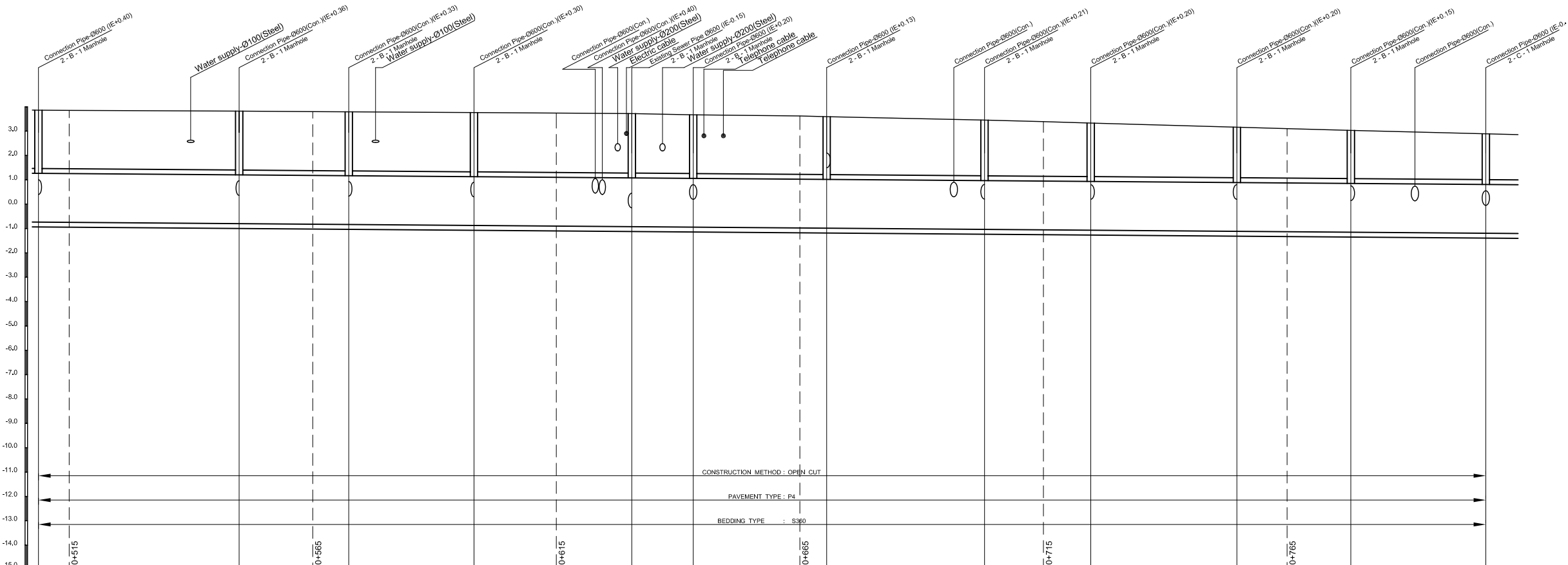


PLAN S = 1/500

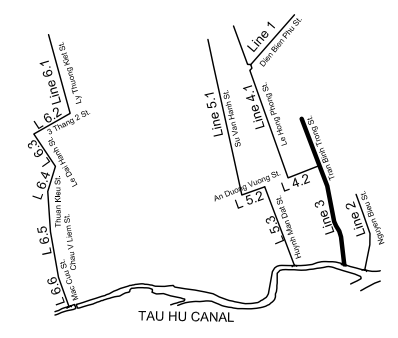


PROFILE $S_H = 1/500, S_V = 1/100$



Manhole Number	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25							
Diameter (mm)	Box 2500 x 2000																		
Gradient (%)	1.50																		
Length (m)	41.2	22.5	25.7	32.4	12.6	27.4	32.4	21.8	30.0	23.4	27.7								
Existing Ground Elevation (m)	3.86	3.85	3.82	3.80	3.79	3.76	3.74	3.72	3.67	3.62	3.59	3.45	3.39	3.33	3.16	3.10	3.03	2.89	
Earth Covering (m)	2.38		2.40		2.40		2.41		2.42		2.39		2.26		2.17		2.05		1.96
Invert Elevation (m)	-0.72	-0.73	-0.76	-0.80	-0.81	-0.85	-0.88	-0.90	-0.92	-0.96	-0.96	-1.01	-1.03	-1.04	-1.09	-1.10	-1.12	-1.17	
Total Accumulation Length (m)	515.0	521.3	556.2	571.3	578.7	604.4	621.3	636.6	649.4	671.3	676.6	709.2	721.3	731.0	761.0	771.3	784.4	812.1	

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
- Diversion Chamber
- Diversion Chamber with Manhole
- Existing Manhole
- Existing Inlet
- Existing Sewer 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 3 (3)

SCALE : As Shown

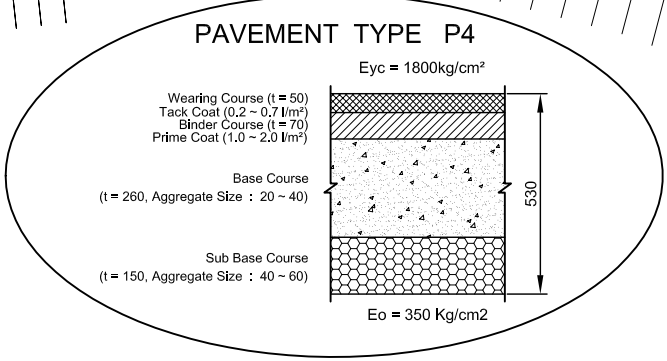
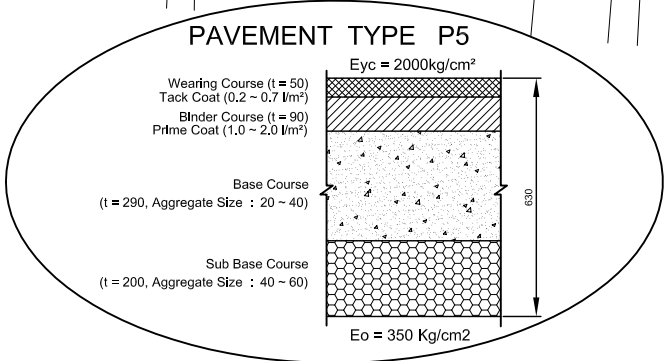
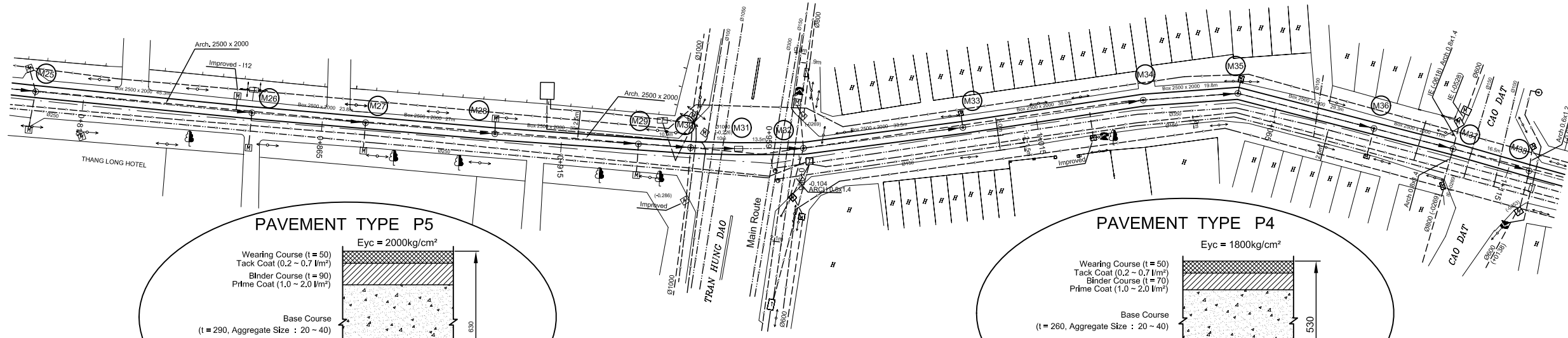
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

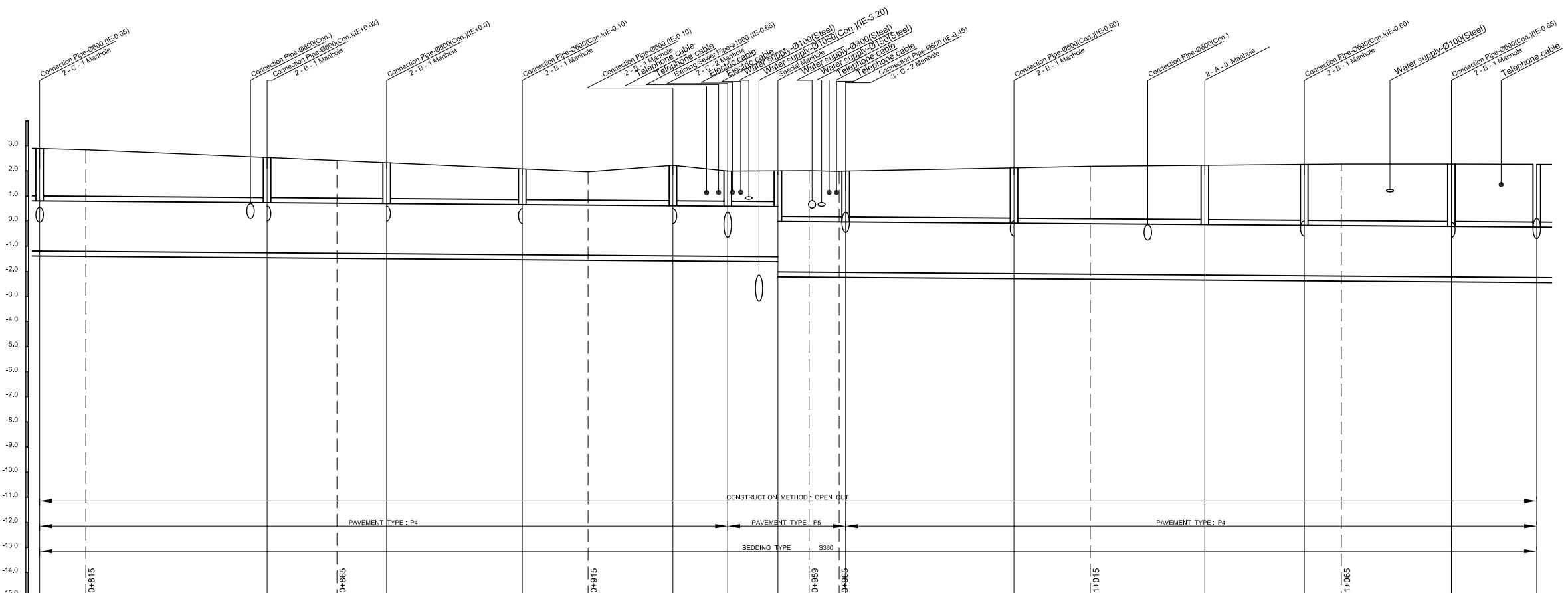
DESIGNED KATSUKI TAKAOKI	CHECKED KONDO MASAMI
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DATE : JUNE 2001 DWG. No. PD - ECSI - 209

PLAN S = 1/500

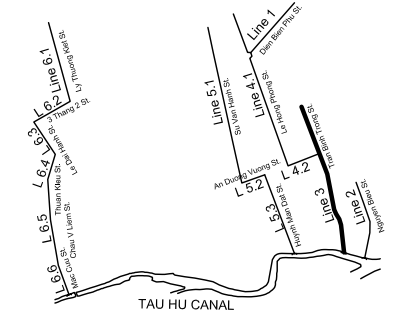


PROFILE S_H = 1/500, S_V = 1/100



Manhole Number	M25	M26	M27	M28	M29	M30	M31	M32	M33	M34	M35	M36	M37
Diameter (mm)	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	2500 x 2000	Box 2500 x 2000	2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000
Gradient (%)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Length (m)	45.3	23.8	27.0	30.0	10.9	10.0	13.5	33.5	38.0	19.8	29.3	17.0	
Existing Ground Elevation (m)	2.89	2.84	2.53	2.41	2.32	2.08	1.96	2.22	1.99	2.00	2.01	1.96	1.96
Earth Covering (m)	1.86	1.86	1.56	2.41	1.39	1.19	1.38	1.16	1.19	2.01	1.58	1.76	1.58
Invert Elevation (m)	-1.17	-1.18	-1.23	-1.25	-1.27	-1.31	-1.33	-1.36	-1.37	-1.39	-1.41	-1.44	-1.46
Total Accumulation Length (m)	812.1	821.3	857.4	871.3	881.2	906.2	921.3	938.2	949.1	959.1	965.3	977.3	972.8

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
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- S4 - Area to be Required for Shaft
- Sewer Connected from The Right Side
- Sewer Connected from The Left Side

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 3 (4)

SCALE : As Shown

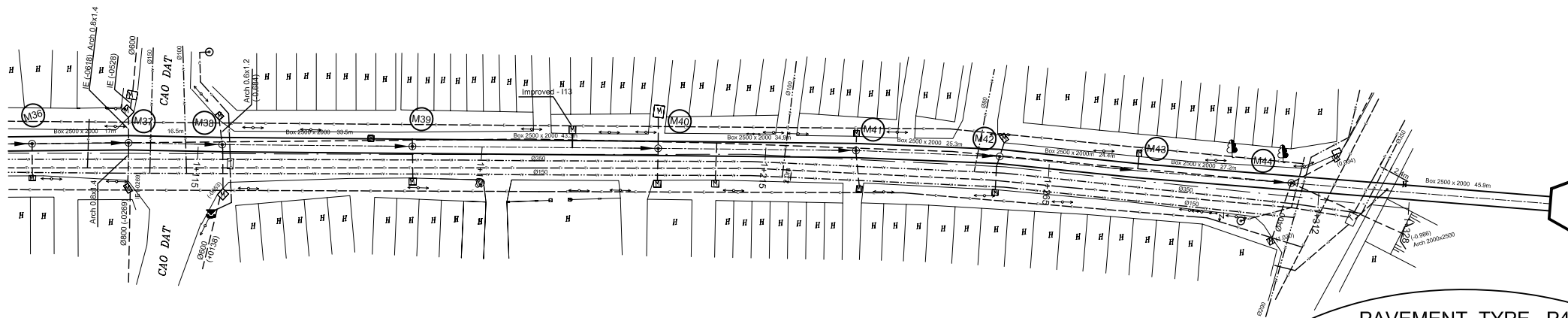
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

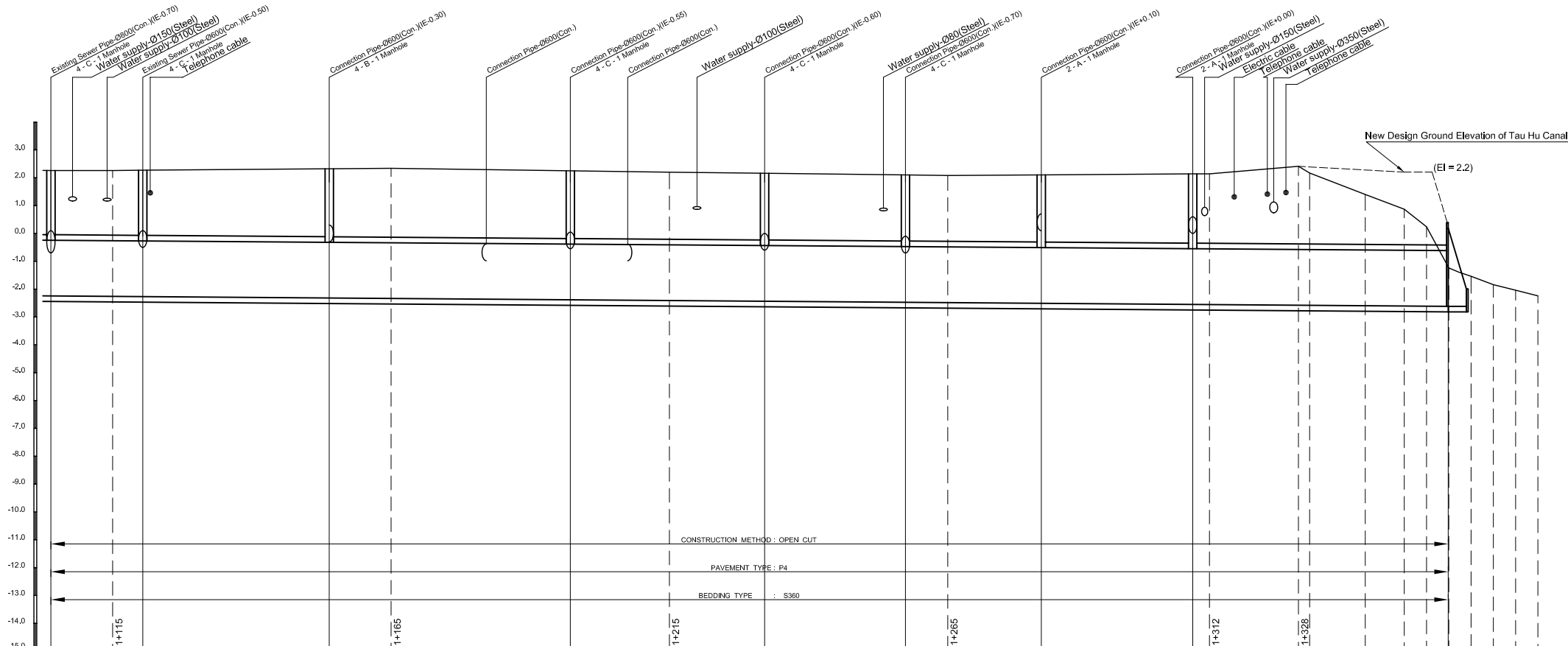
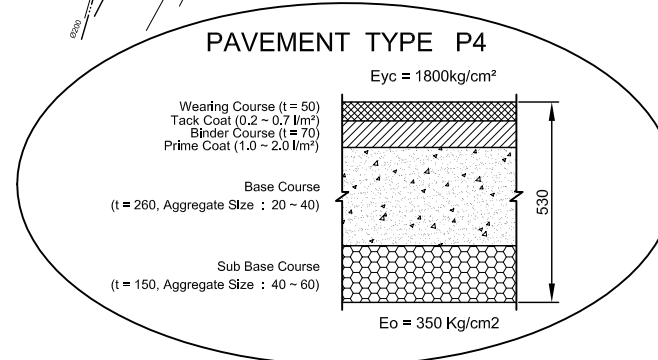
DESIGNED KATSUKI TAKAOKI	CHECKED KONDO MASAMI
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DATE : JUNE 2001 DWG. No. PD - ECSI - 210

PLAN S = 1/500

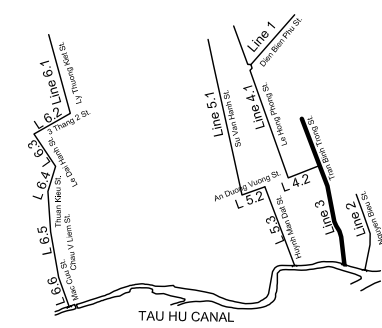


PROFILE S_H = 1/500, S_V = 1/100

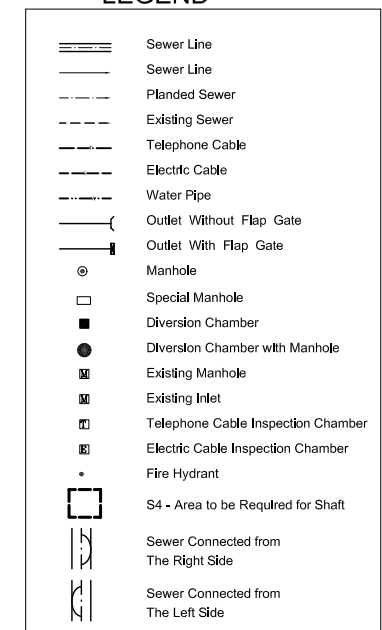


Manhole Number	M37	M38	M39	M40	M41	M42	M43	M44	OUTLET
Diameter (mm)	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000	Box 2500 x 2000
Gradient (%)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Length (m)	16.5	33.5	43.3	34.9	25.3	24.4	27.2	45.9	
Existing Ground Elevation (m)	2.26	2.26	2.27	2.32	2.34	2.25	2.20	2.16	2.10
Earth Covering (m)	2.06	2.09	2.19	2.19	2.19	2.15	2.13	2.16	2.10
Invert Elevation (m)	-2.00	-2.01	-2.02	-2.07	-2.09	-2.14	-2.16	-2.19	-2.23
Total Accumulation Length (m)	1110.2	1121.3	1126.7	1160.2	1171.3	1205.5	1221.3	1238.4	1263.7
									1271.3
									1288.1
									1315.3
									1321.3
									1337.2
									1339.3
									1346.3
									1356.3
									1360.3
									1361.2
									1364.3
									1368.3
									1372.3
									1376.3
									1380.3

KEYMAP



LEGEND



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 3 (5)				
SCALE : As Shown				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED KATSUKI TAKAOKI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PD - ECSI - 211		