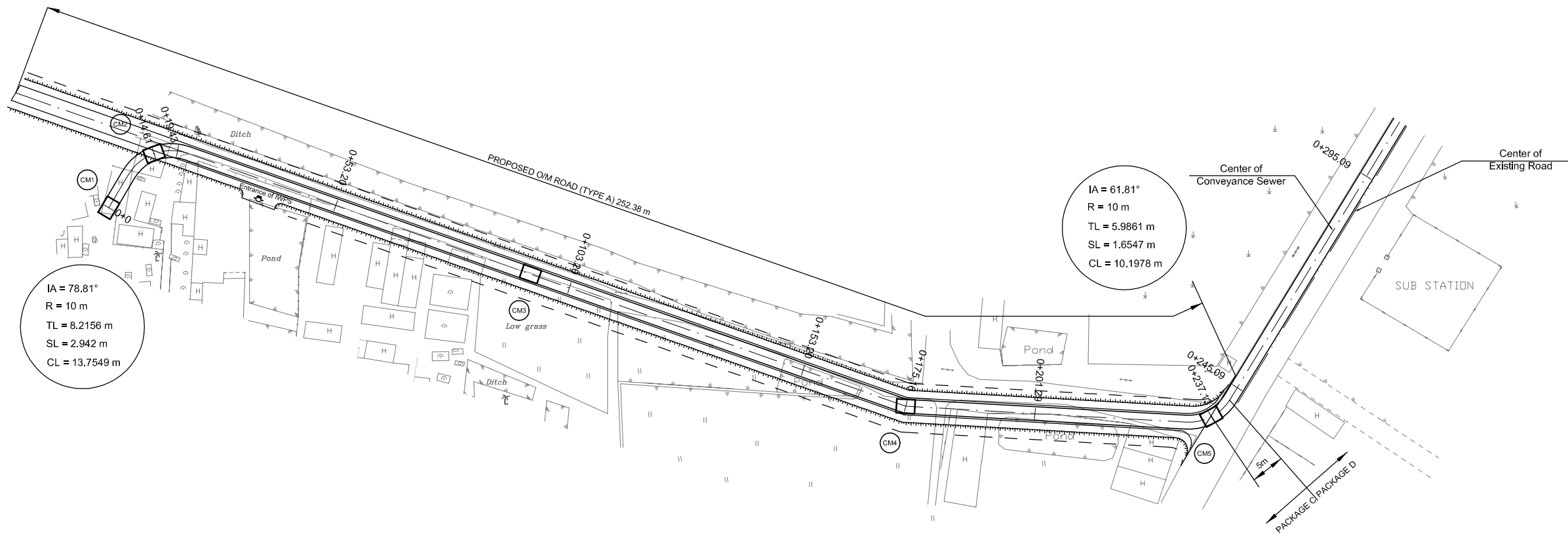


CONVEYANCE SEWER CONSTRUCTION

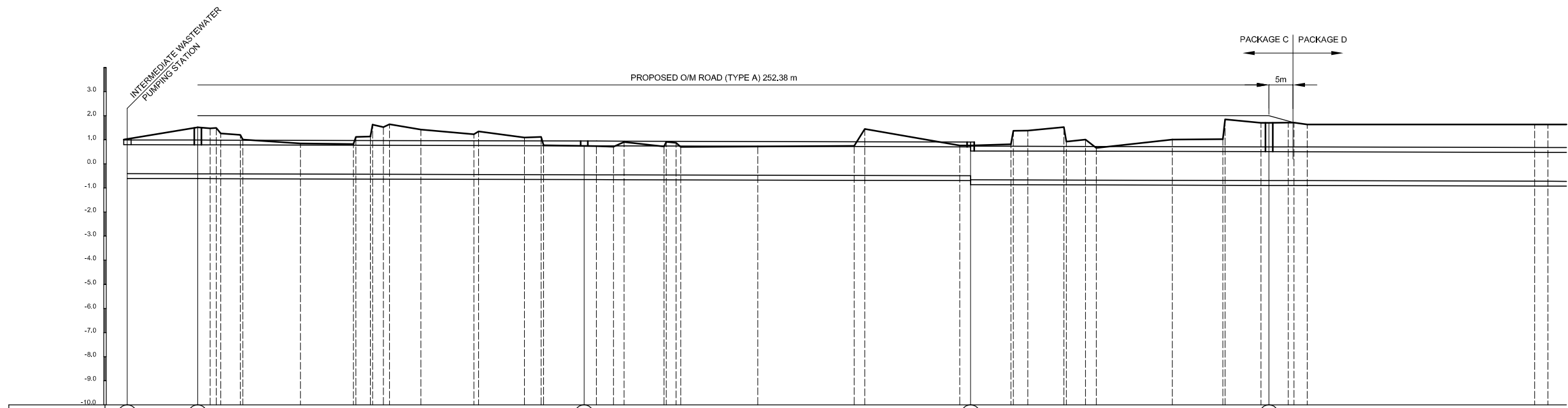
PLAN S = 1/500



IA = 78.81°
R = 10 m
TL = 8.2156 m
SL = 2.942 m
CL = 13.7549 m

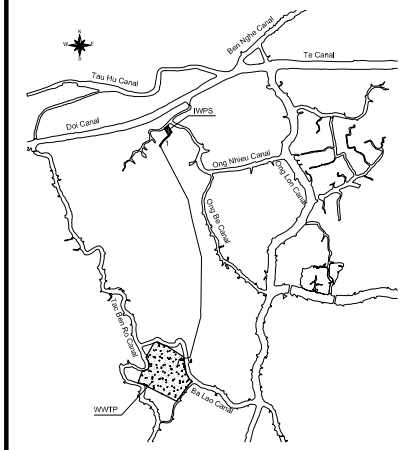
IA = 61.81°
R = 10 m
TL = 5.9861 m
SL = 1.6547 m
CL = 10.1978 m

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

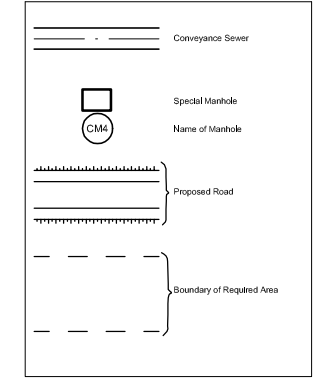


Manhole Number	CM1	CM2	CM3	CM4	CM5											
Dimension (m)	Double Cell Culvert (2x1300x1200)		Double Cell Culvert (2x1300x1200)		Double Cell Culvert (2x1300x1200)											
Gradient (%)	0.5		0.5		0.5											
Length (m)	14.61	80.27	80.28	61.97	100											
Design Ground Elevation (m)	2.00		2.00	2.00	2.00											
Existing Ground Elevation (m)	1.04	1.52 1.48 1.27 1.21 1.01	0.85	0.93 1.14 1.63 1.53 1.43	1.23 1.35	1.10 1.12 0.78 0.75 0.74 0.91 0.73 0.92 0.98 0.71	0.77 0.77 0.82 1.38 1.39 1.53 0.93 1.01 0.67									
Earth Covering (m)	1.000	1.010	1.090	1.090	1.090	1.71 1.72 1.64	1.64 1.64									
Invert Elevation (m)	-0.400	-0.407	-0.447	-0.487 -0.657	-0.688											
Total Accumulation Length (m)	0	14.61 15.21 19.45 23.97 28.59	35.97	49.97 50.47 53.20 54.71	60.97	71.97 72.97	82.47 86.77 94.88 97.44 100.97 103.20 111.47 113.97 116.97	130.97	150.97 153.20	172.93 175.16	183.55 184.05 187.05	194.45 196.05 199.05 201.29	217.05	229.05 230.05	237.45 241.14 242.52	252.32 256.09

KEY MAP
(Scale: 1/50000)



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
CONVEYANCE SEWER CONSTRUCTION
**PLAN AND PROFILE
OF CONVEYANCE SEWER
AND O/M ROAD (1)**

SCALE : H : 1 / 500
V : 1 / 100

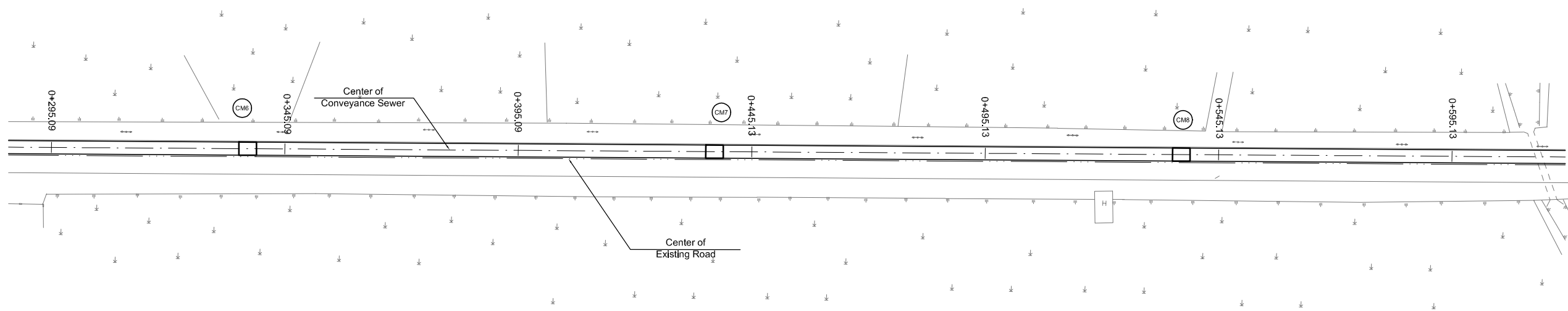
JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

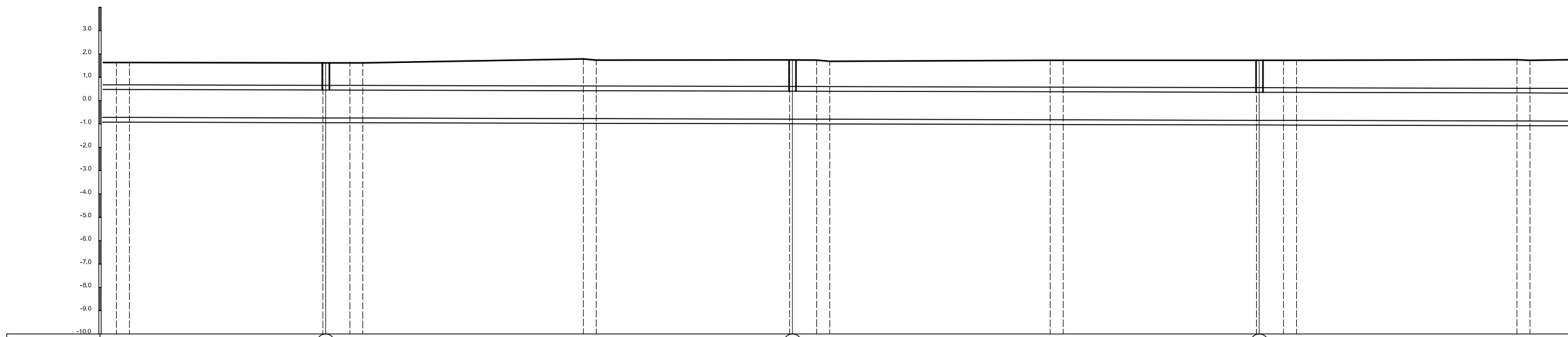
DESIGNED: KATSUKI TAKAAKI
CHECKED: KONDO MASAMI

DATE : JUNE 2001 DWG. No. PD - CSC - 201

PLAN S = 1/500

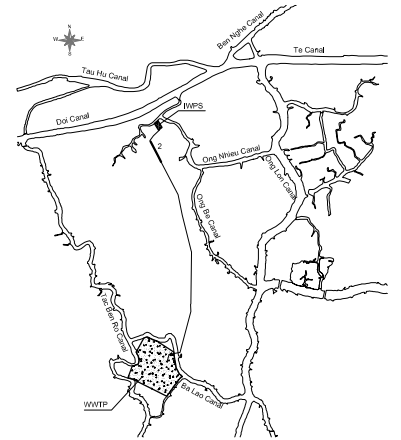


PROFILE S_H = 1/500, S_V = 1/100

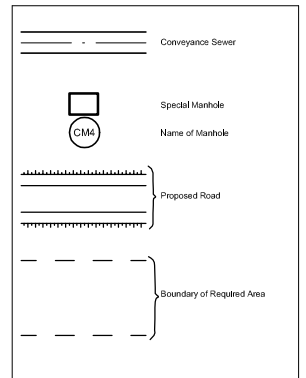


Manhole Number		CM6		CM7		CM8												
Dimension (m)	Double Cell Culvert (2x1300x1200)		Double Cell Culvert (2x1300x1200)		Double Cell Culvert (2x1300x1200)		Double Cell Culvert (2x1300x1200)											
Gradient (%)	0.5		0.5		0.5		0.5											
Length (m)	100		100		100		100											
Design Ground Elevation (m)																		
Existing Ground Elevation (m)	1.64	1.64	1.62	1.62	1.62	1.79	1.74	1.75	1.75	1.74	1.69	1.73	1.73	1.73	1.76	1.73		
Earth Covering (m)			1.00				1.10				1.17							
Invert Elevation (m)			-0.738				-0.788				-0.838							
Total Accumulation Length (m)	295.32	295.09	337.13	337.13	342.32	345.09	392.32	395.09	437.13	437.13	442.32	445.13	492.32	495.13	537.13	542.32	592.32	595.13

KEY MAP
(Scale: 1/50000)



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
CONVEYANCE SEWER CONSTRUCTION
**PLAN AND PROFILE
OF CONVEYANCE SEWER
AND O/M ROAD (2)**

SCALE : H : 1 / 500
V : 1 / 100

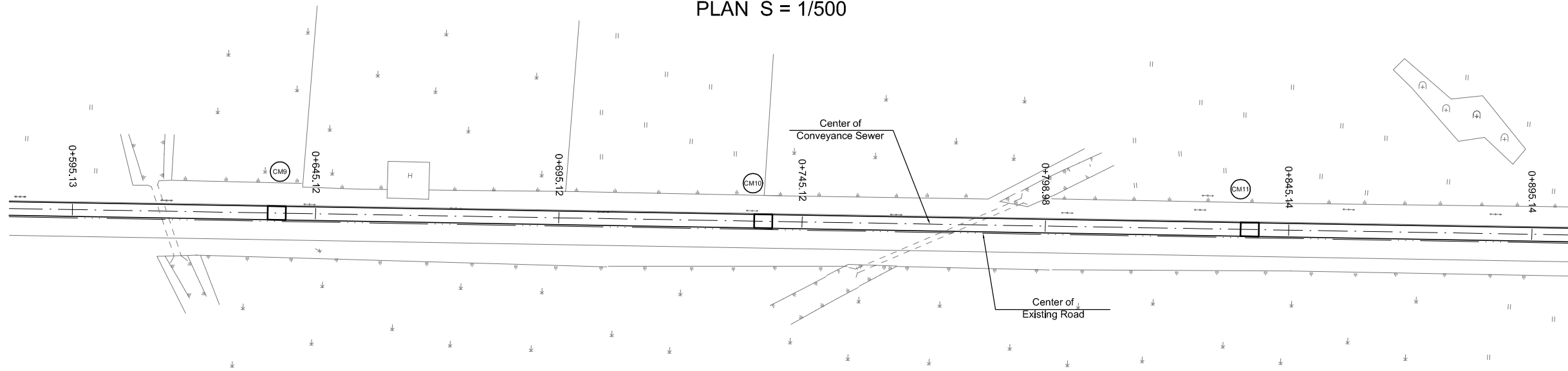
JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

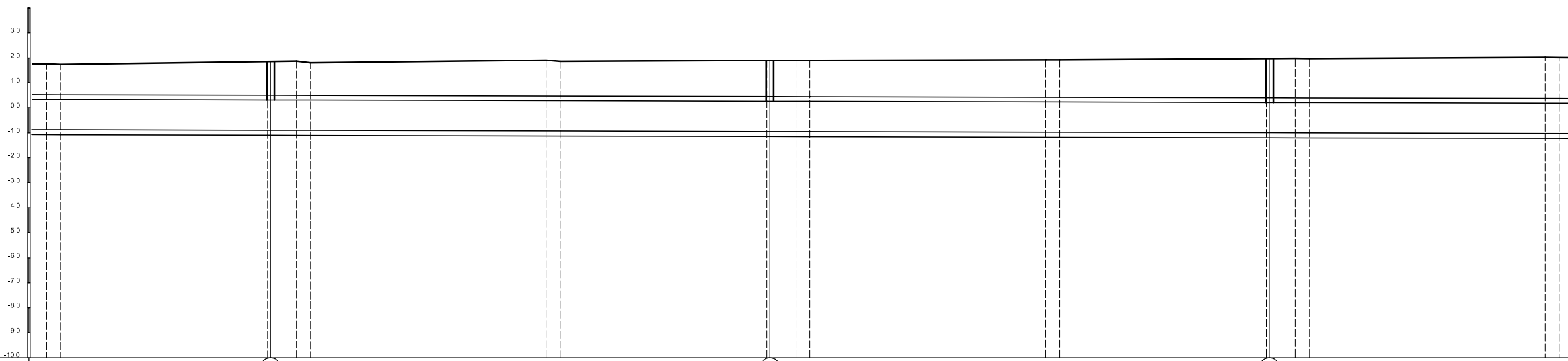
DESIGNED: KATSUKI TAKAAKI
CHECKED: KONDO MASAMI

DATE : JUNE 2001 DWG. No. PD - CSC - 202

PLAN S = 1/500

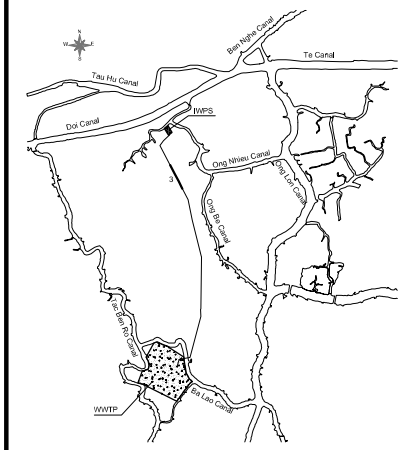


PROFILE $S_H = 1/500$, $S_V = 1/100$

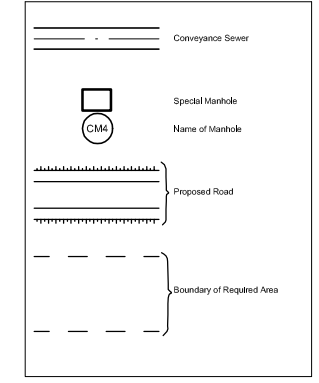


Manhole Number		CM9		CM10		CM11	
Dimension (m)		Double Cell Culvert (2x1300x1200)		Double Cell Culvert (2x1300x1200)		Double Cell Culvert (2x1300x1200)	
Gradient (%)		0.5		0.5		0.5	
Length (m)		100		100		100	
Design Ground Elevation (m)							
Existing Ground Elevation (m)	1.76 1.73	1.85 1.82	1.87 1.80	1.91 1.86	1.90 1.90	1.93 1.93	2.03 2.02
Earth Covering (m)		1.340		1.440		1.570	
Invert Elevation (m)		-0.888		-0.938		-0.888	
Total Accumulation Length (m)	595.32 595.13	637.13 637.13	642.32 645.12	692.32 695.12	737.13 742.32 745.12	792.32 795.13	862.32 865.14

KEY MAP
(Scale: 1/50000)

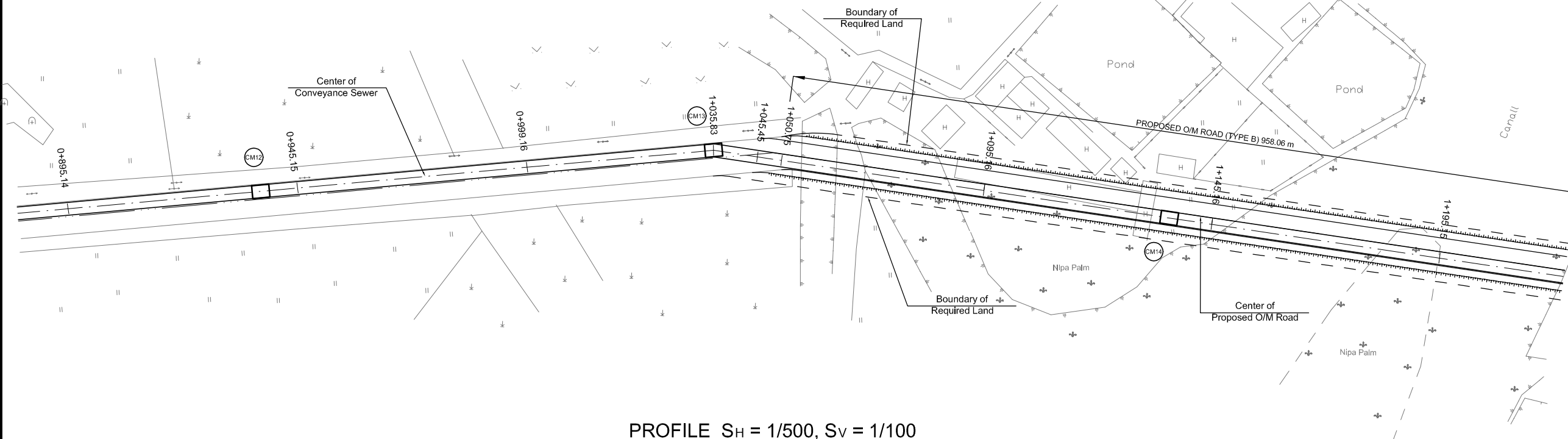


LEGEND

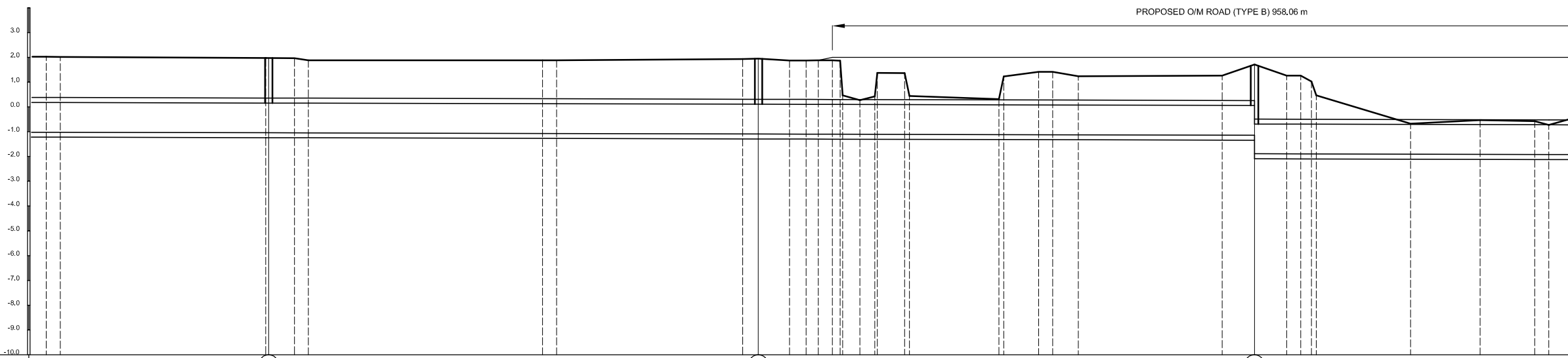


NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE D CONVEYANCE SEWER CONSTRUCTION PLAN AND PROFILE OF CONVEYANCE SEWER AND O/M ROAD (3)				
SCALE :		H : 1 / 500	V : 1 / 100	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED		CHECKED		
KATSUKI TAKAAKI		KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PD - CSC - 203		

PLAN S = 1/500

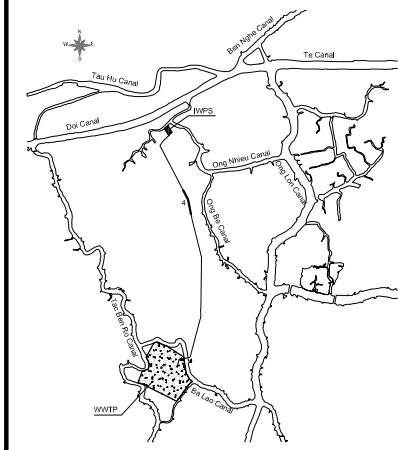


PROFILE $S_H = 1/500, S_V = 1/100$

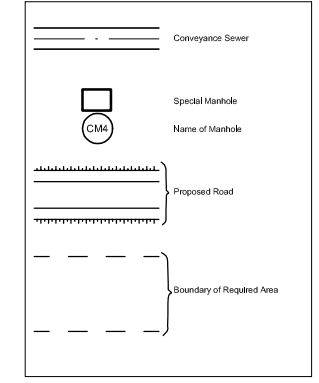


Manhole Number	CM12		CM13		CM14	
Dimension (m)	Double Cell Culvert (2x1300x1200)		Double Cell Culvert (2x1300x1200)		Double Cell Culvert (2x1300x1200)	
Gradient (%)	0.5		0.5		0.5	
Length (m)	100		98.70		90.15	
Design Ground Elevation (m)					2.00	
Existing Ground Elevation (m)	2.03	2.02	1.96	1.96	1.89	1.89
Earth Covering (m)		1.020		1.040		1.740
Invert Elevation (m)		-1.038		-1.087		-1.137
Total Accumulation Length (m)	895.32	895.14	937.13	937.13	942.32	945.15
			992.32	995.16	1032.87	1035.83
			1042.12	1045.45	1047.50	1050.75
			1052.81	1056.31	1059.31	1062.31
			1065.31	1068.31	1071.31	1074.31
			1080.31	1083.31	1086.31	1089.31
			1094.31	1097.31	1100.31	1103.31
			1107.31	1110.31	1113.31	1116.31
			1119.31	1122.31	1125.31	1128.31
			1131.31	1134.31	1137.31	1140.31
			1142.31	1145.16	1148.31	1151.16
			1154.31	1157.16	1160.31	1163.16
			1167.31	1170.31	1173.31	1176.31
			1181.31	1184.31	1187.31	1190.31
			1192.31	1195.15		

KEY MAP
(Scale: 1/50000)

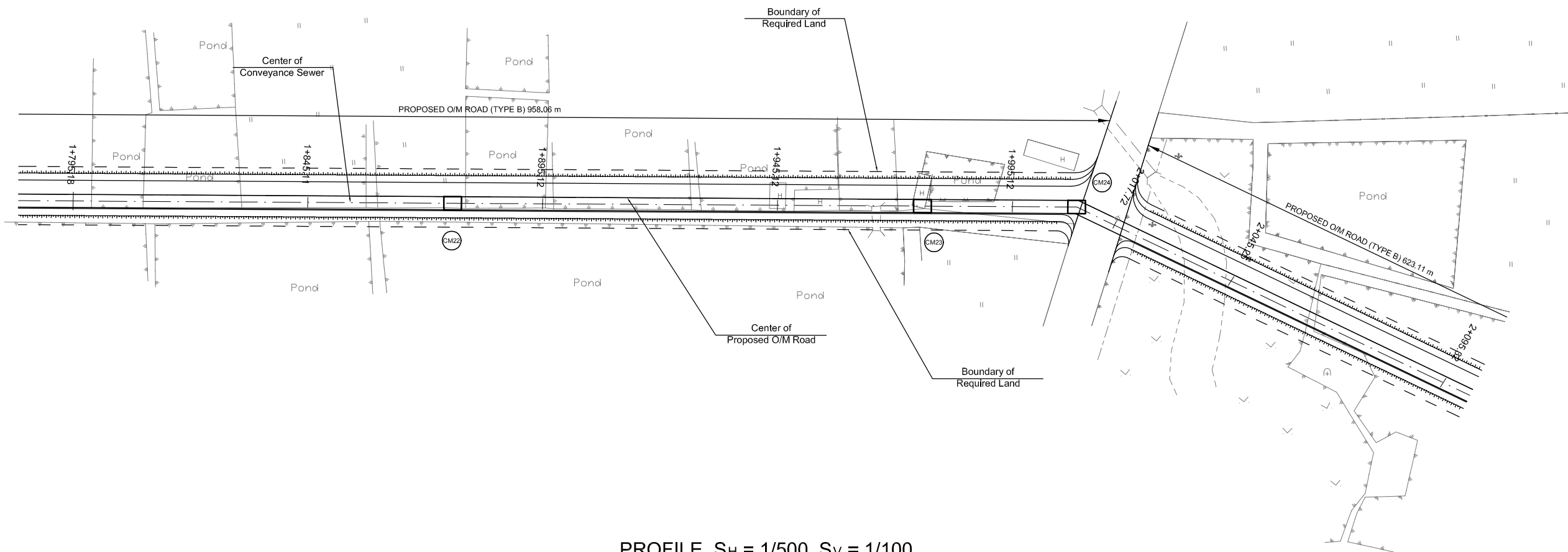


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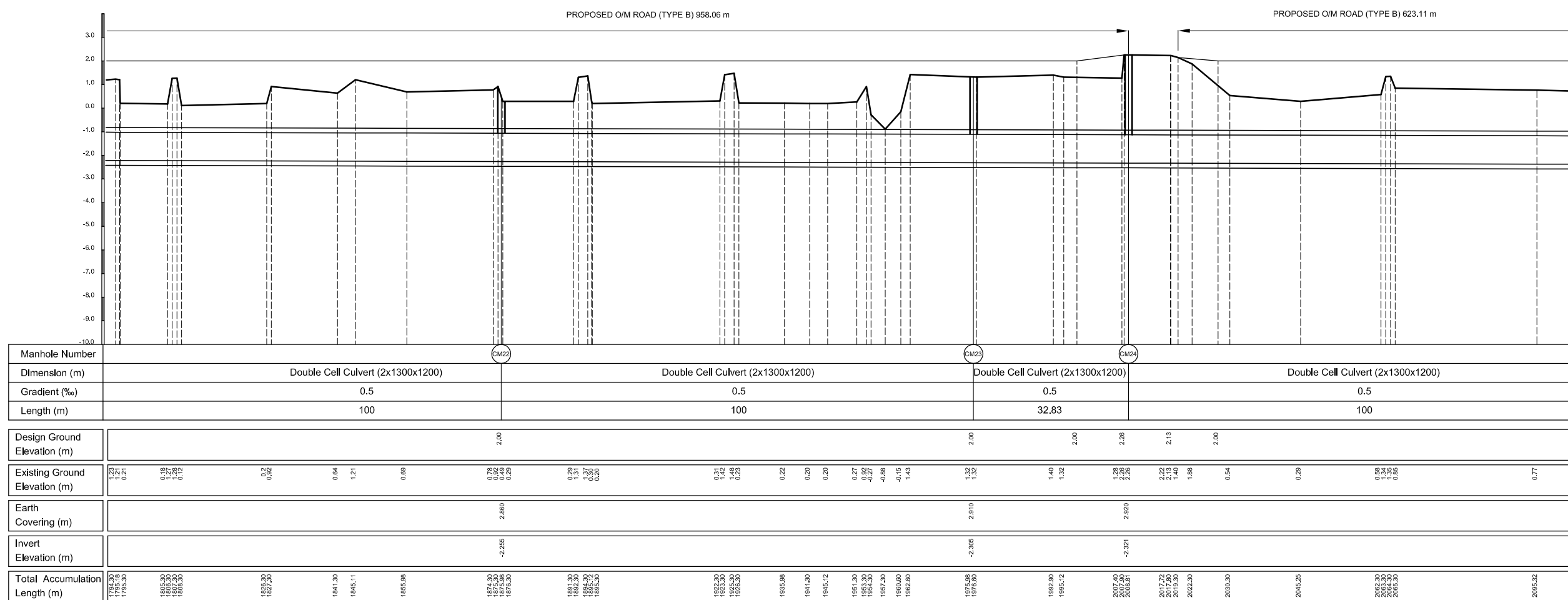


NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE D CONVEYANCE SEWER CONSTRUCTION PLAN AND PROFILE OF CONVEYANCE SEWER AND O/M ROAD (4)				
SCALE :		H : 1 / 500	V : 1 / 100	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED KATSUKI TAKAAKI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PD - CSC - 204		

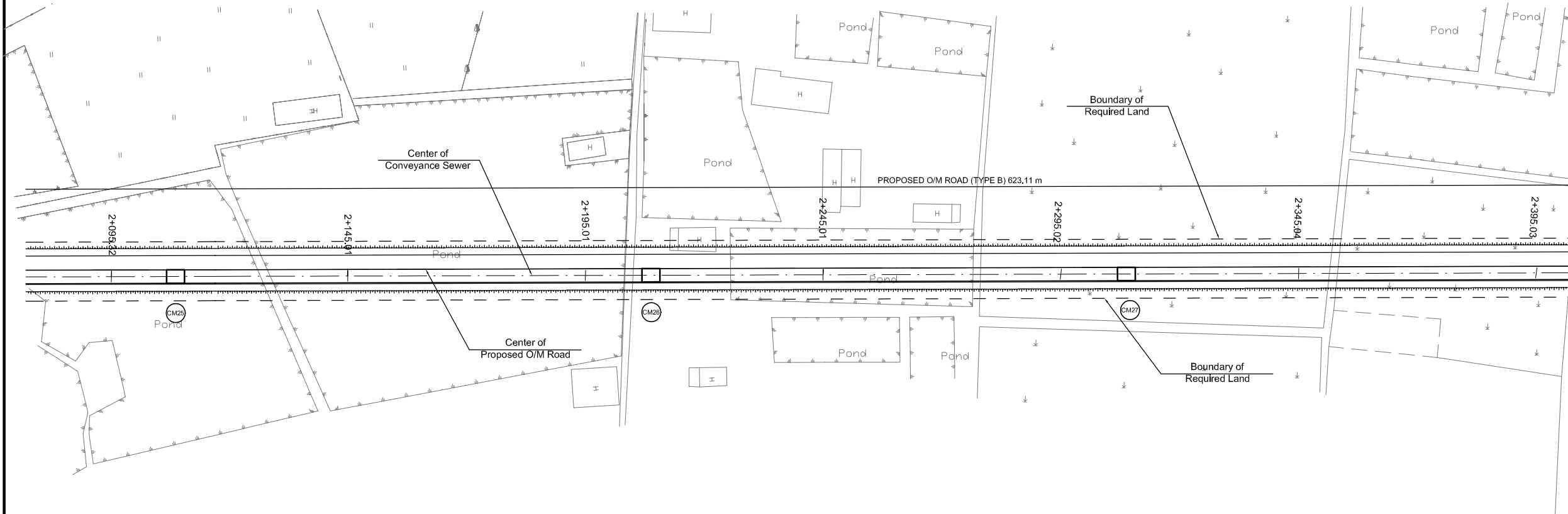
PLAN S = 1/500



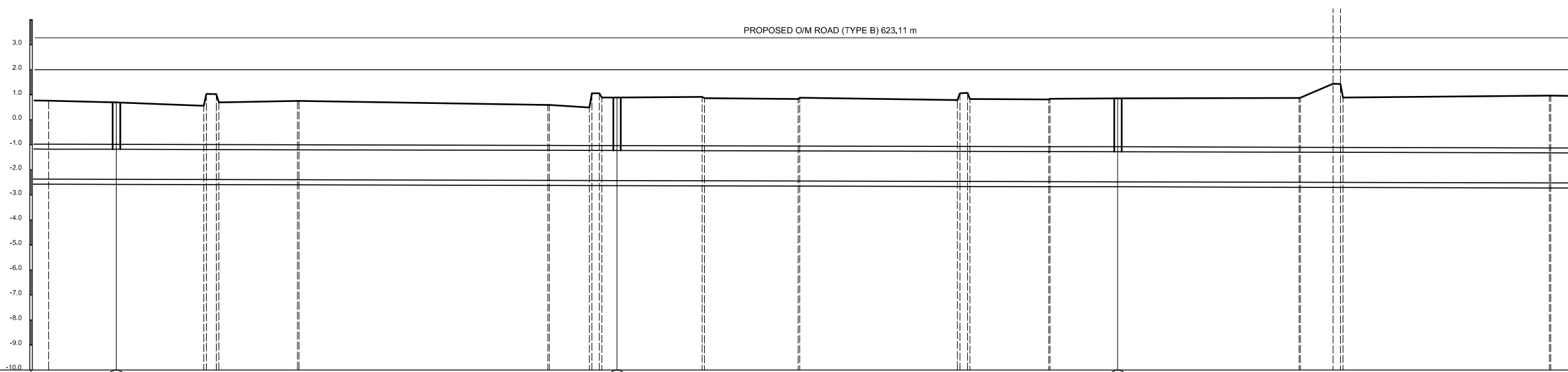
PROFILE S_H = 1/500, S_V = 1/100



PLAN S = 1/500

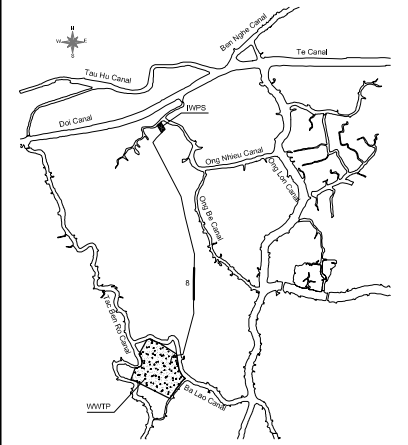


PROFILE S_H = 1/500, S_V = 1/100

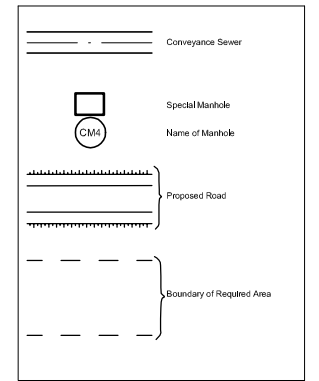


Manhole Number	CM25	CM26	CM27
Dimension (m)	Double Cell Culvert (2x1300x1200)		
Gradient (%)	0.5		
Length (m)	100		
Design Ground Elevation (m)	2.00	2.00	2.00
Existing Ground Elevation (m)	1.70, 1.70, 1.50, 1.00, 0.70, 0.90, 0.90, 0.90	0.60, 1.01, 1.01, 1.01, 1.60, 0.60	0.60, 0.60, 0.60, 0.60, 0.60, 0.60, 1.60
Earth Covering (m)	0.30	3.00	3.00
Invert Elevation (m)	-1.37	-1.47	-1.47
Total Accumulation Length (m)	2095.32, 2108.19, 2126.30, 2138.80, 2152.30	2195.01, 2195.30, 2203.30, 2205.30, 2205.80, 2208.81, 2225.80, 2227.30	2276.80, 2277.30, 2278.30, 2279.30, 2295.02, 2295.30, 2308.81, 2325.04, 2331.80, 2333.80, 2395.03, 2395.30

KEY MAP
(Scale: 1/50000)

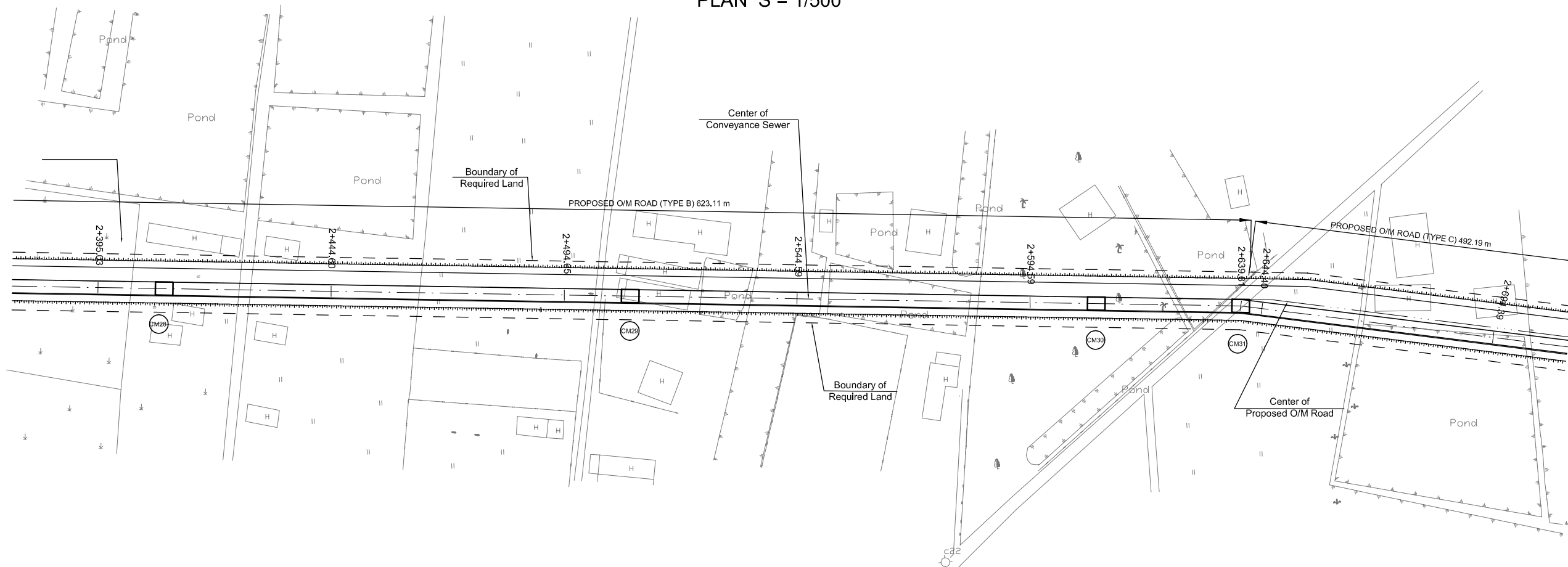


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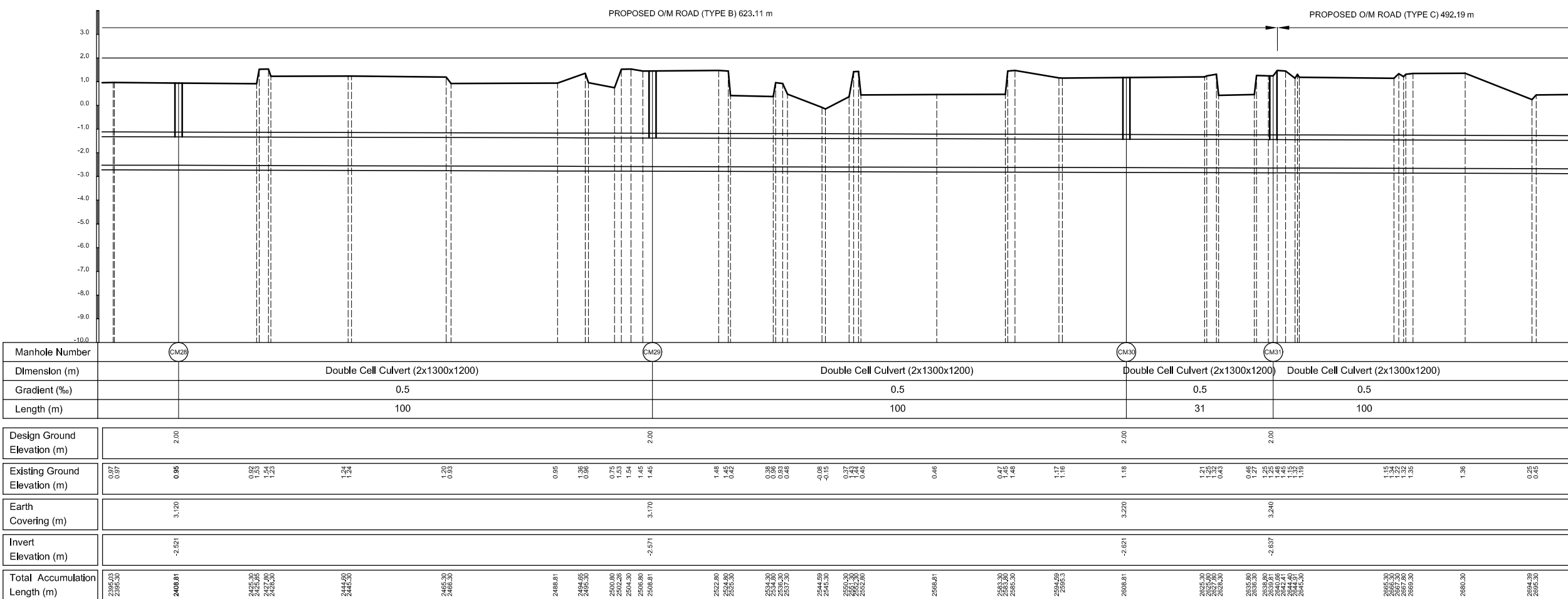


NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE D CONVEYANCE SEWER CONSTRUCTION PLAN AND PROFILE OF CONVEYANCE SEWER AND O/M ROAD (8)				
SCALE :		H : 1 / 500	V : 1 / 100	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED		CHECKED		
KATSUKI TAKAAKI		KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PD - CSC - 208		

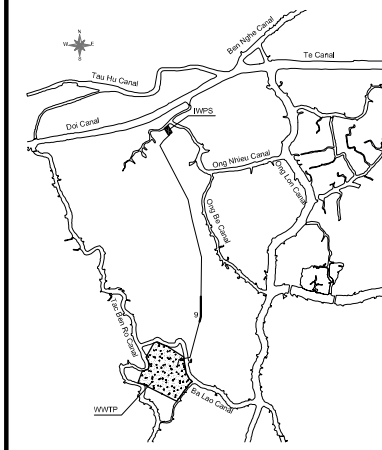
PLAN S = 1/500



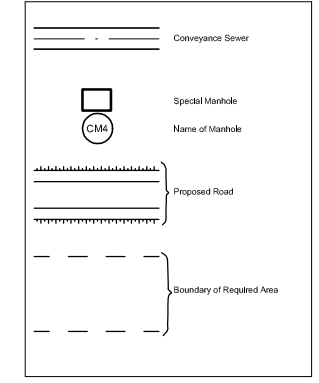
PROFILE S_H = 1/500, S_V = 1/100



KEY MAP
(Scale: 1/50000)



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 CONVEYANCE SEWER CONSTRUCTION PLAN AND PROFILE OF CONVEYANCE SEWER AND O/M ROAD (9)				
SCALE :		H : 1/500	V : 1/100	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED KATSUKI TAKAAKI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PD - CSC - 209		