

LEGEND

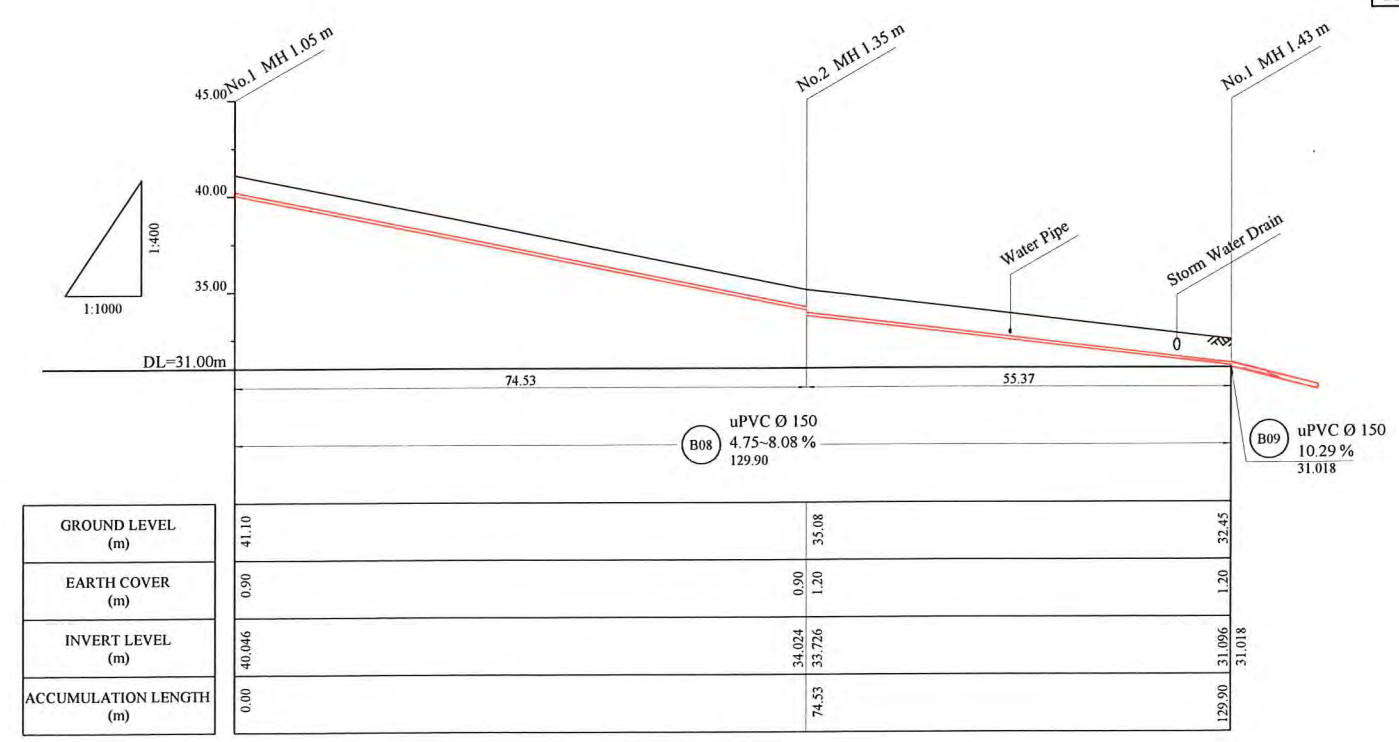
- PROPOSED SEWER
- NEW MANHOLE
- ⊙ EXISTING MANHOLE TO BE MODIFIED
- POWER POLE WITH OVERHEAD POWER LINES
- POWER POLE WITH LIGHT
- ELECTRICITY TRANSMISSION TOWER
- ELECTRICITY PIT
- UNDER GROUND POWER CABLE
- TELECOM PIT
- TELECOM MARKER POST
- TELECOM LINE
- WATER VALVE BOX
- STOP VALVE
- WATER TAP
- FIRE HYDRANT
- WATER METER
- EXISTING SEWER PIPE
- TREE
- WATER LINE
- FENCE LINE WITH GATE
- BITUMEN SEALED ROAD

- NOTE: CADASTRAL BOUNDARIES TAKEN FROM DCDB
- 1) LOCATION OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING ALL EXISTING UTILITIES IN OPERATION.
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 - 3) INVERT MODIFICATION IS INCLUDED IN THE CONTRACT
 INVERT LEVEL OF NEW PIPE ≥ EXISTING PIPE BOTTOM LEVEL +20mm
 INVERT LEVEL OF NEW PIPE - EXISTING PIPE BOTTOM LEVEL ≥ +600mm
 DROP PIPE IS REQUIRED
 - 4) MINIMUM COVER IS 60cm FOR UNPAVED ROAD
 90cm FOR ASPHALT/CONCRETE PAVED ROAD IF NOT DESCRIBED ON THE DRAWING
 Type A - Soil/others
 Type B - Asphalt(Road)
 Type C - Walkway (Concrete)

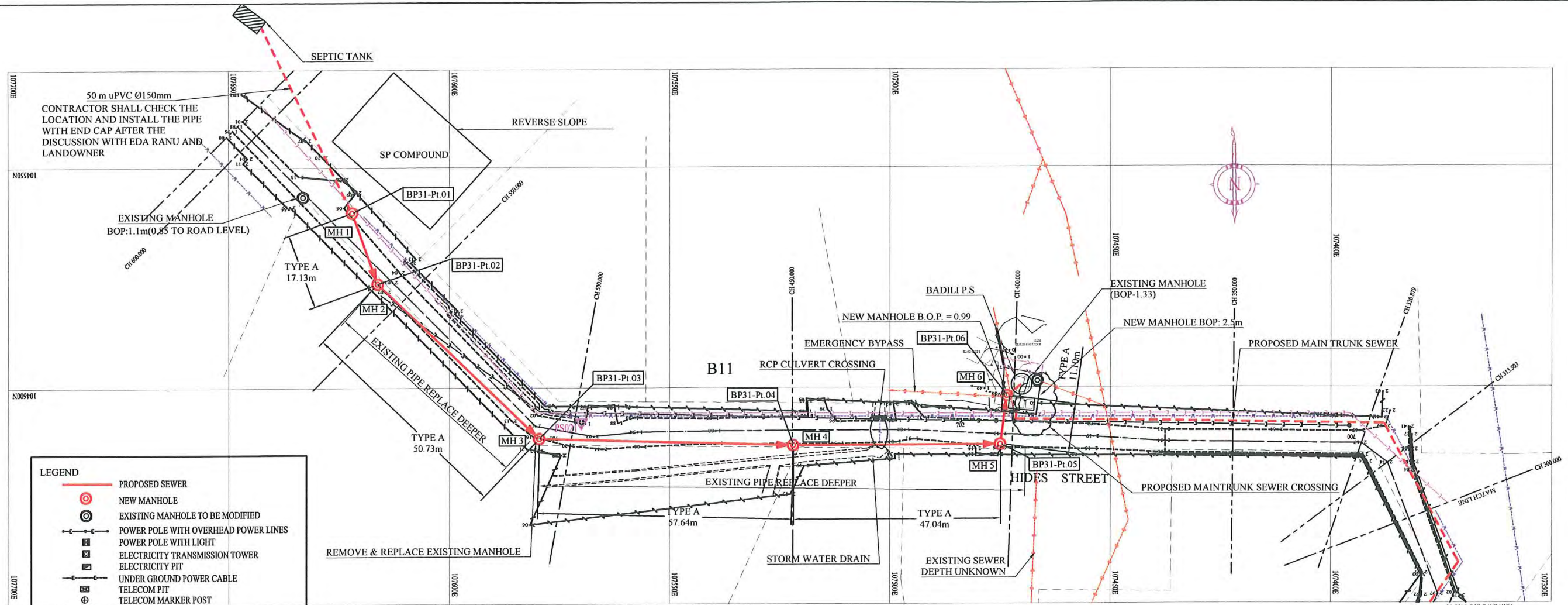
PLAN VIEW
Scale : 1:1000

HDPE PIPE BENDING POINT COORDINATES

Corner Pt. No.	EASTING	NORTHING
BP30-Pt.01	107304.78	105333.63
BP30-Pt.02	107373.69	105362.02



PROJECT: PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT (POMSSUP)		TITLE: Branch Sewer Pipe Plan and Profile (Badili_B8)																
CLIENT: INDEPENDENT PUBLIC BUSINESS CORPORATION PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT PROJECT MANAGEMENT UNIT (PMU)	CONSULTANTS: NJS CONSULTANTS CO., LTD. - JAPAN	NOTES:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS			REV.	DATE	DESCRIPTION									
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JAPAN INTERNATIONAL COOPERATION AGENCY		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;"> APPROVED BY PMU: Project Director Lot G.Zauya </td> <td style="padding: 2px;"> DATE: 1. Dec 2011 </td> <td style="padding: 2px;"> SCALE: 1/1000 </td> </tr> <tr> <td style="padding: 2px;"> CHECKED BY CONSULTANT: Project Manager T.Fuji </td> <td style="padding: 2px;"> DATE: 1. Dec 2011 </td> <td style="padding: 2px;"> DRAWING NO.: BP-30 </td> </tr> </table>	APPROVED BY PMU: Project Director Lot G.Zauya	DATE: 1. Dec 2011	SCALE: 1/1000	CHECKED BY CONSULTANT: Project Manager T.Fuji	DATE: 1. Dec 2011	DRAWING NO.: BP-30										
APPROVED BY PMU: Project Director Lot G.Zauya	DATE: 1. Dec 2011	SCALE: 1/1000																
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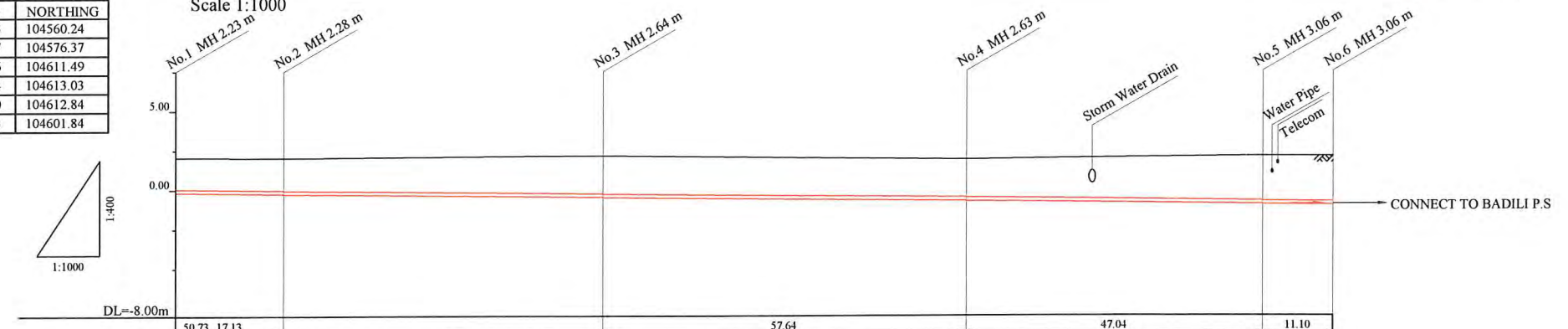
LEGEND

- PROPOSED SEWER
- ⊙ NEW MANHOLE
- ⊙ EXISTING MANHOLE TO BE MODIFIED
- POWER POLE WITH OVERHEAD POWER LINES
- POWER POLE WITH LIGHT
- ⊠ ELECTRICITY TRANSMISSION TOWER
- ⊠ ELECTRICITY PIT
- UNDER GROUND POWER CABLE
- ⊠ TELECOM PIT
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- ⊠ WATER TAP
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- ⊠ WATER METER
- EXISTING SEWER PIPE
- ⊠ TREE
- WATER LINE
- FENCE LINE WITH GATE
- BITUMEN SEALED ROAD

HDPE PIPE BENDING POINT CORDINATES

Corner Pt. No.	EASTING	NORTHING
BP31-Pt.01	107621.93	104560.24
BP31-Pt.02	107616.17	104576.37
BP31-Pt.03	107579.56	104611.49
BP31-Pt.04	107521.94	104613.03
BP31-Pt.05	107474.90	104612.84
BP31-Pt.06	107473.43	104601.84

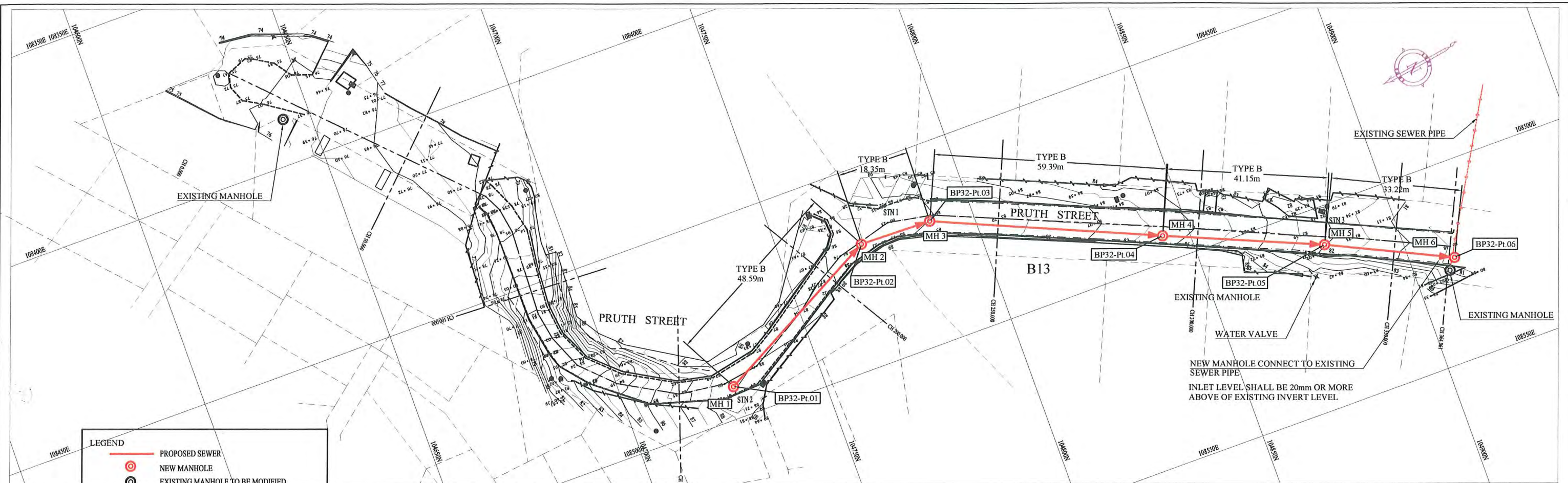
PLAN VIEW
Scale 1:1000



	No.1 MH 2.23 m	No.2 MH 2.28 m	No.3 MH 2.64 m	No.4 MH 2.63 m	No.5 MH 3.06 m	No.6 MH 3.06 m
GROUND LEVEL (m)	2.06	2.02	2.16	1.90	2.12	2.10
EARTH COVER (m)	2.00	2.03	2.29	2.38	2.81	2.86
INVERT LEVEL (m)	-0.170	-0.239	-0.462	-0.713	-0.921	-0.985
ACCUMULATION LENGTH (m)	0.00	17.13	67.86	125.50	172.54	183.64

- NOTE: CADASTRAL BOUNDARIES TAKEN FROM DCDB
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90cm FOR ASPHALT/CONCRETE PAVED ROAD IF NOT DESCRIBED ON THE DRAWING
Type A - Soil/others
Type B - Asphalt(Road)
Type C - Walkway (Concrete)

PROJECT: PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT (POMSSUP)		TITLE: Branch Sewer Pipe Plan and Profile (Badili_B11)			
CLIENT: INDEPENDENT PUBLIC BUSINESS CORPORATION PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT PROJECT MANAGEMENT UNIT (PMU) JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: NJS CONSULTANTS CO., LTD. - JAPAN	NOTES:	APPROVED by PMU: Project Director Lot G.Zauya	DATE: 1. Dec 2011	SCALE: 1/1000
			CHECKED by CONSULTANT Project Manager T.Fuji	DATE: 1. Dec 2011	DRAWING NO.: BP-31



LEGEND

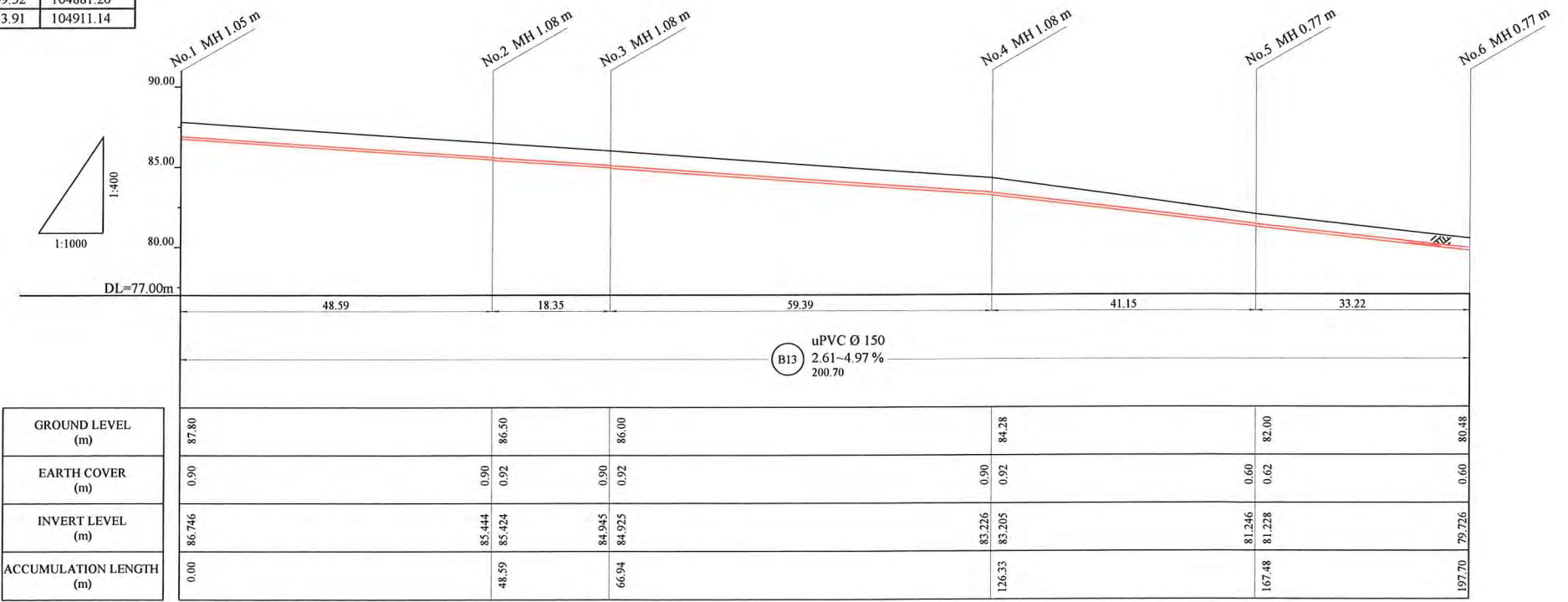
- PROPOSED SEWER
- NEW MANHOLE
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- POWER POLE WITH OVERHEAD POWER LINES
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- EXISTING SEWER PIPE
- TREE
- WATER LINE
- FENCE LINE WITH GATE
- BITUMEN SEALED ROAD

HDPE PIPE BENDING POINT COORDINATES

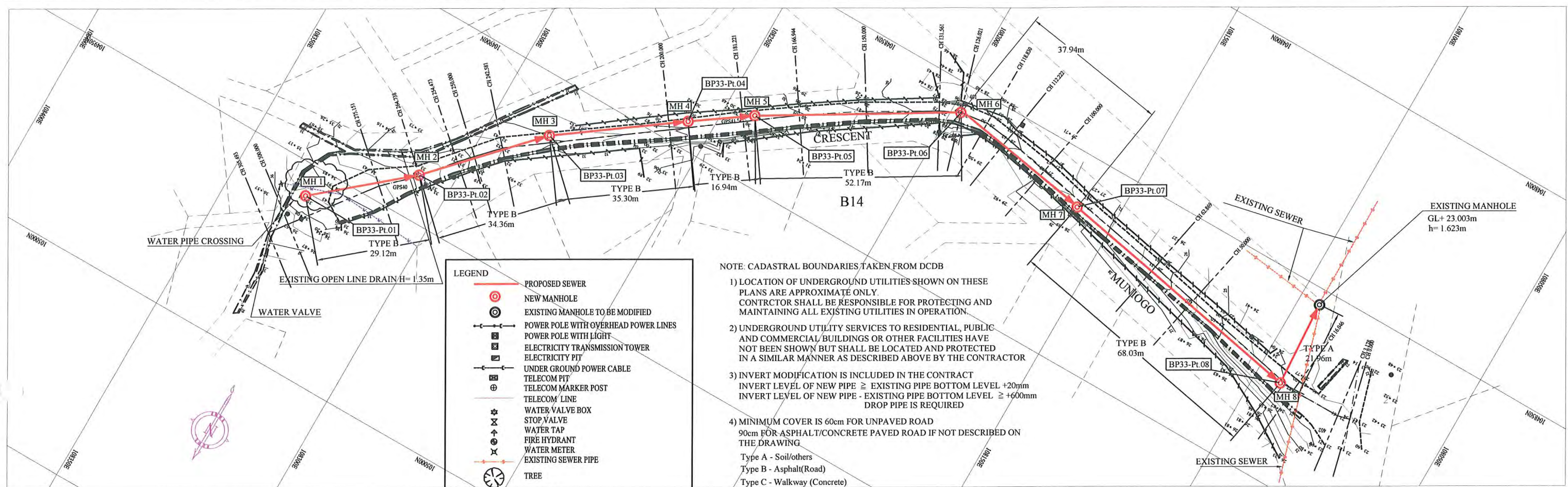
Corner Pt. No.	EASTING	NORTHING
BP32-Pt.01	108491.90	104727.85
BP32-Pt.02	108468.93	104770.66
BP32-Pt.03	108469.40	104789.01
BP32-Pt.04	108493.37	104843.34
BP32-Pt.05	108509.52	104881.20
BP32-Pt.06	108523.91	104911.14

PLAN VIEW
Scale : 1:1000

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 Type A - Soil/others
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 Type C - Walkway (Concrete)



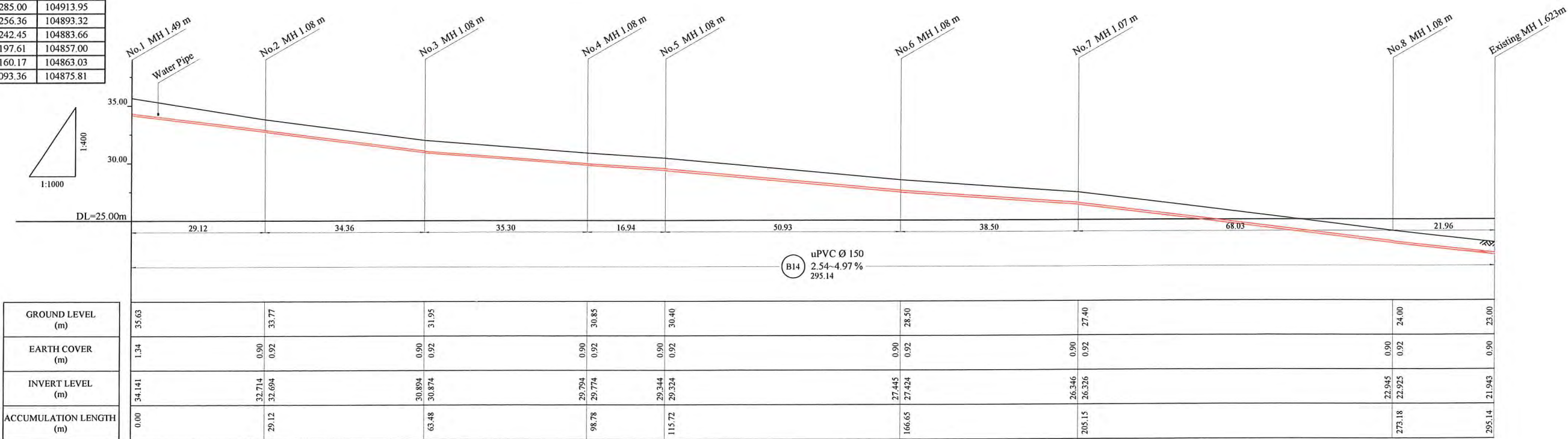
PROJECT: PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT (POMSSUP)		TITLE: Branch Sewer Pipe Plan and Profile (Badili_B13)																
CLIENT: INDEPENDENT PUBLIC BUSINESS CORPORATION PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT PROJECT MANAGEMENT UNIT (PMU) JAPAN INTERNATIONAL COOPERATION AGENCY	CONSULTANTS: NJS CONSULTANTS CO., LTD. - JAPAN	NOTES:		APPROVED by PMU: Project Director Lot G.Zauya	DATE: 1. Dec 2011	SCALE: 1/1000												
		REVISIONS		CHECKED by CONSULTANT: Project Manager T.Fuji	DATE: 1. Dec 2011	DRAWING NO.: BP-32												
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HDPE PIPE BENDING POINT CORDINATES

Corner Pt. No.	EASTING	NORTHING
BP33-Pt.01	108330.82	104957.74
BP32-Pt.02	108308.57	104938.95
BP33-Pt.03	108285.00	104913.95
BP33-Pt.04	108256.36	104893.32
BP33-Pt.05	108242.45	104883.66
BP33-Pt.06	108197.61	104857.00
BP33-Pt.07	108160.17	104863.03
BP33-Pt.08	108093.36	104875.81

PLAN VIEW
Scale : 1:1000



PROJECT: PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT (POMSSUP)

TITLE: Branch Sewer Pipe Plan and Profile (Badili_B14)

CLIENT: INDEPENDENT PUBLIC BUSINESS CORPORATION
PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT
PROJECT MANAGEMENT UNIT (PMU)
jica JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS: NJS CONSULTANTS CO., LTD. - JAPAN

NOTES:

REVISIONS		
REV.	DATE	DESCRIPTION

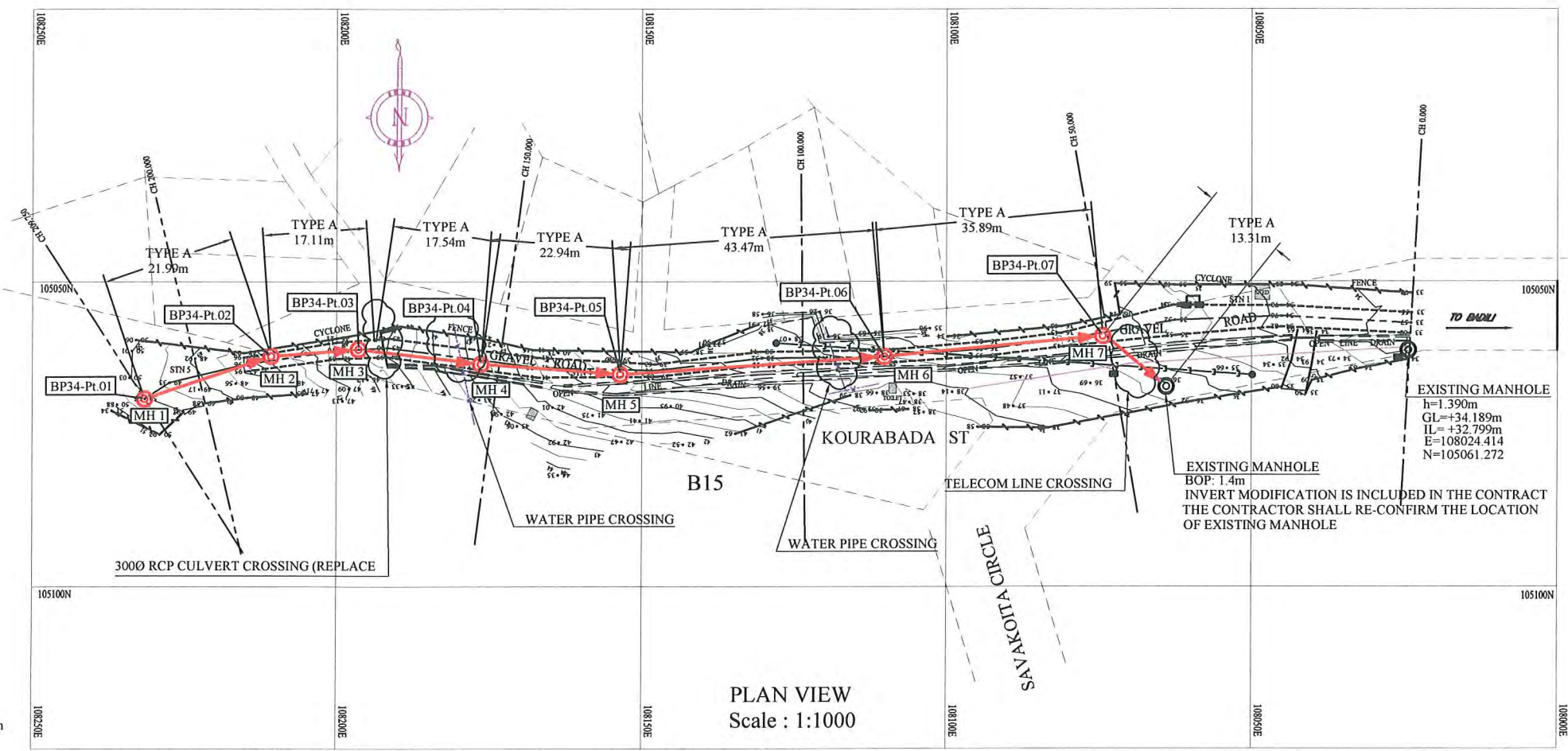
APPROVED by PMU:
Project Director
Lot G.Zauya
CHECKED BY CONSULTANT
Project Manager
T.Fuji

DATE: 1. Dec 2011
DATE: 1. Dec 2011

SCALE: 1/1000
DRAWING NO.: BP-33

LEGEND

- PROPOSED SEWER
- NEW MANHOLE
- EXISTING MANHOLE TO BE MODIFIED
- POWER POLE WITH OVERHEAD POWER LINES
- POWER POLE WITH LIGHT
- ELECTRICITY TRANSMISSION TOWER
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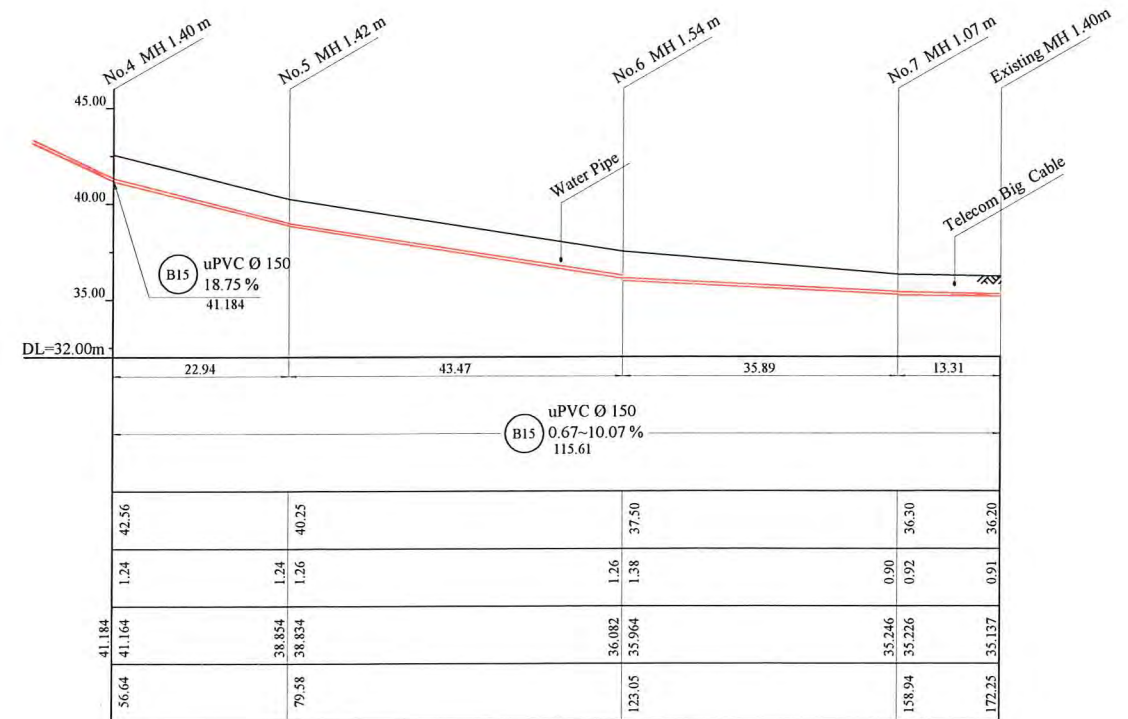
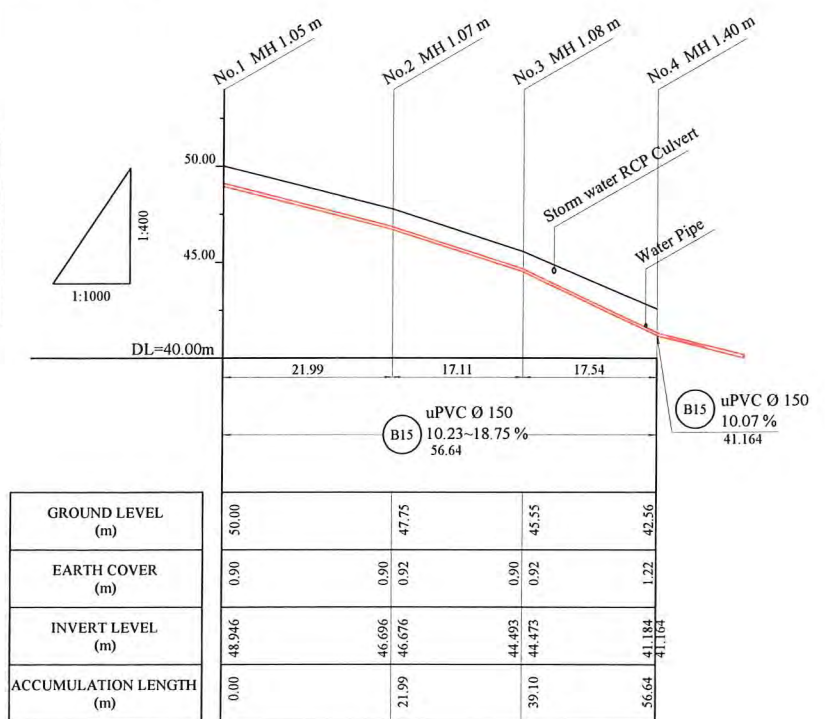


PLAN VIEW
Scale : 1:1000

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90cm FOR ASPHALT/CONCRETE PAVED ROAD IF NOT DESCRIBED ON THE DRAWING
Type A - Soil/others
Type B - Asphalt(Road)
Type C - Walkway (Concrete)

HDPE PIPE BENDING POINT CORDINATES

Corner Pt. No.	EASTING	NORTHING
BP34-Pt.01	108231.56	105069.20
BP34-Pt.02	108210.78	105062.18
BP34-Pt.03	108196.41	105061.06
BP34-Pt.04	108176.36	105063.50
BP34-Pt.05	108153.48	105065.21
BP34-Pt.06	108110.11	105062.28
BP34-Pt.07	108074.38	105058.97



PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT (POMSSUP)

TITLE: Branch Sewer Pipe Plan and Profile (Badili_B15)

IPBC
INDEPENDENT PUBLIC BUSINESS CORPORATION
PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT
PROJECT MANAGEMENT UNIT (PMU)

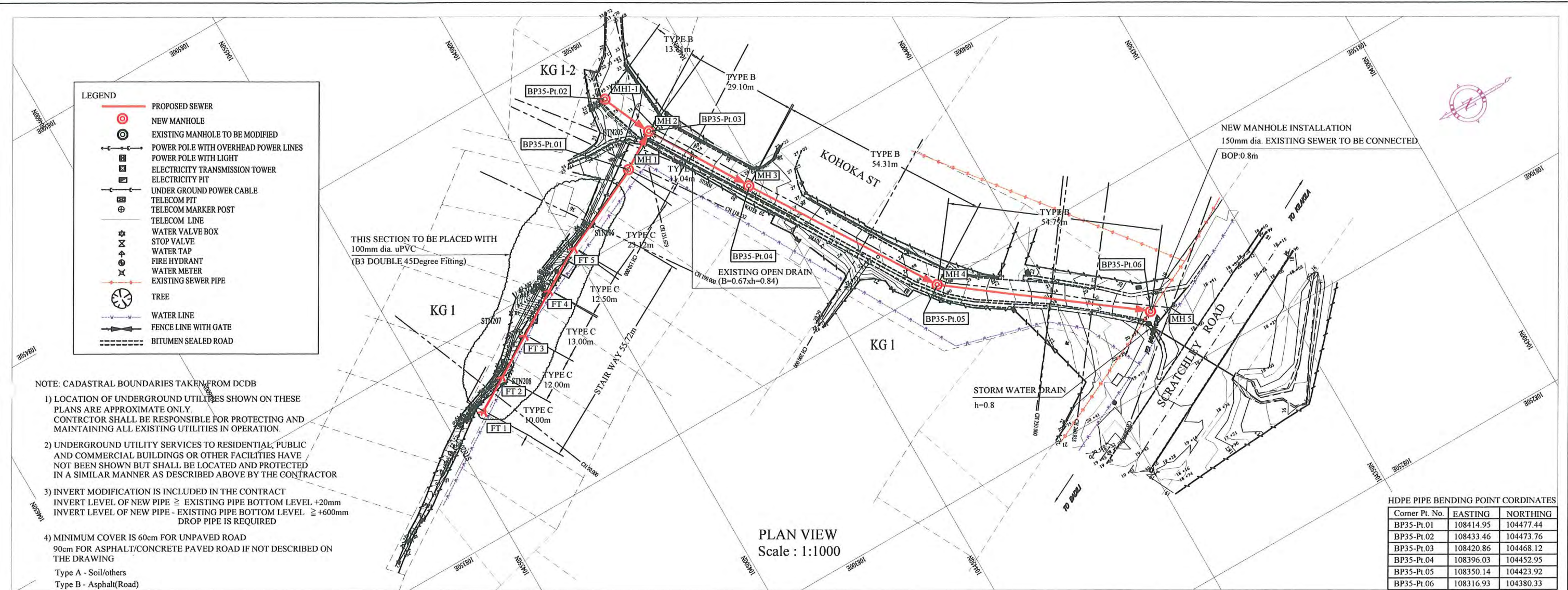
JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS:
NJS CONSULTANTS CO., LTD. - JAPAN

NOTES:

REVISIONS		
REV.	DATE	DESCRIPTION

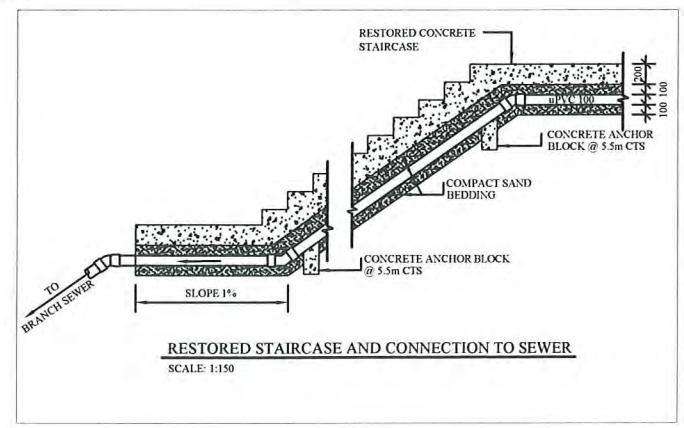
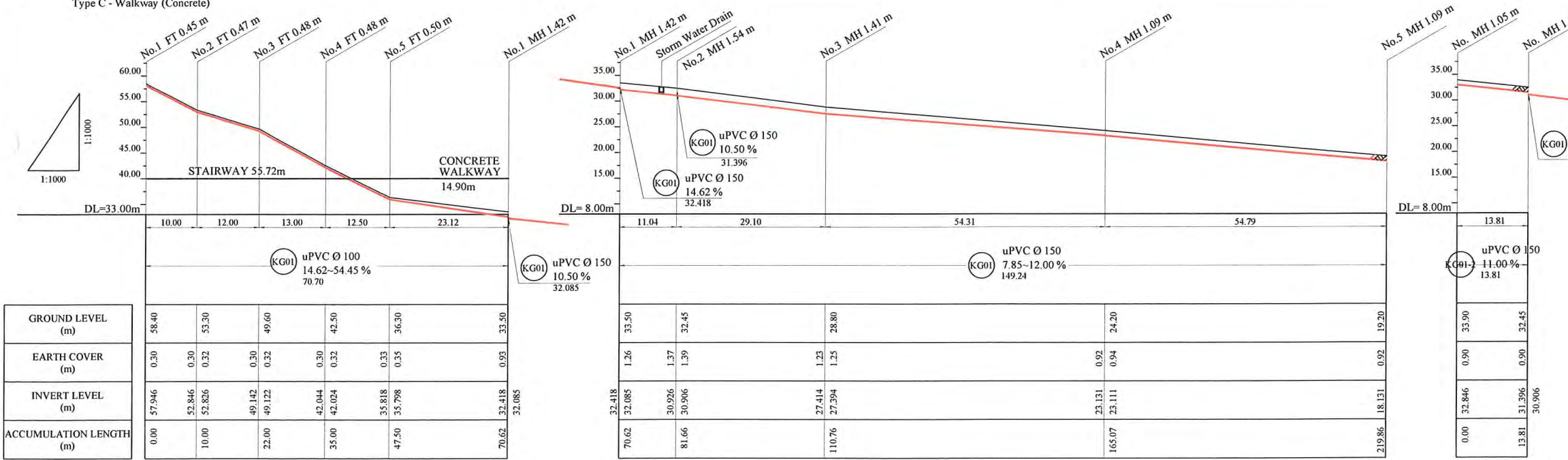
APPROVED BY PMU: Project Director Lot G.Zauya	DATE: 1. Dec 2011	SCALE: 1/1000
CHECKED BY CONSULTANT Project Manager T Fuji	DATE: 1. Dec 2011	DRAWING NO.: BP-34



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 Type A - Soil/others
 Type B - Asphalt(Road)
 Type C - Walkway (Concrete)

HDPE PIPE BENDING POINT COORDINATES

Corner Pt. No.	EASTING	NORTHING
BP35-Pl.01	108414.95	104477.44
BP35-Pl.02	108433.46	104473.76
BP35-Pl.03	108420.86	104468.12
BP35-Pl.04	108396.03	104452.95
BP35-Pl.05	108350.14	104423.92
BP35-Pl.06	108316.93	104380.33



PROJECT: PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT (POMSSUP) TITLE: Branch Sewer Pipe Plan and Profile (Kaugere_KG1)

CLIENT: INDEPENDENT PUBLIC BUSINESS CORPORATION PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT PROJECT MANAGEMENT UNIT (PMU) JAPAN INTERNATIONAL COOPERATION AGENCY

CONSULTANTS: NJS CONSULTANTS CO., LTD. - JAPAN

NOTES:

REVISIONS		
REV.	DATE	DESCRIPTION

APPROVED by PMU: Project Director Lot G.Zauya

CHECKED by CONSULTANT: Project Manager T.Fuji

DATE: 1. Dec 2011 SCALE: 1/1000

DATE: 1. Dec 2011 DRAWING NO.: BP-35

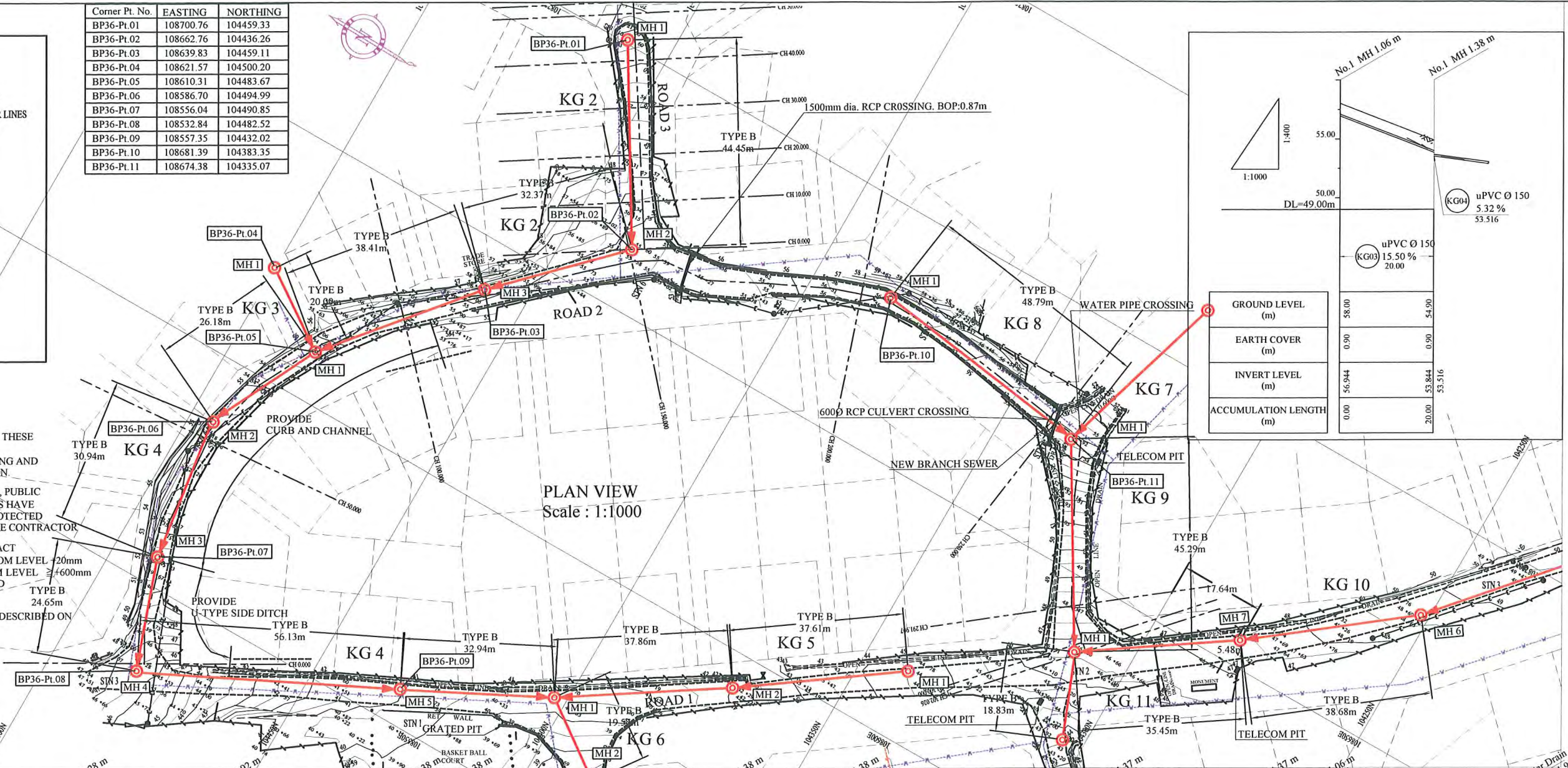
LEGEND

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- NEW MANHOLE
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- WATER METER
- EXISTING SEWER PIPE
- TREE
- WATER LINE
- FENCE LINE WITH GATE
- BITUMEN SEALED ROAD

Corner Pt. No.	EASTING	NORTHING
BP36-Pl.01	108700.76	104459.33
BP36-Pl.02	108662.76	104436.26
BP36-Pl.03	108639.83	104459.11
BP36-Pl.04	108621.57	104500.20
BP36-Pl.05	108610.31	104483.67
BP36-Pl.06	108586.70	104494.99
BP36-Pl.07	108556.04	104490.85
BP36-Pl.08	108532.84	104482.52
BP36-Pl.09	108557.35	104432.02
BP36-Pl.10	108681.39	104383.35
BP36-Pl.11	108674.38	104335.07

NOTE: CADASTRAL BOUNDARIES TAKEN FROM DCDB

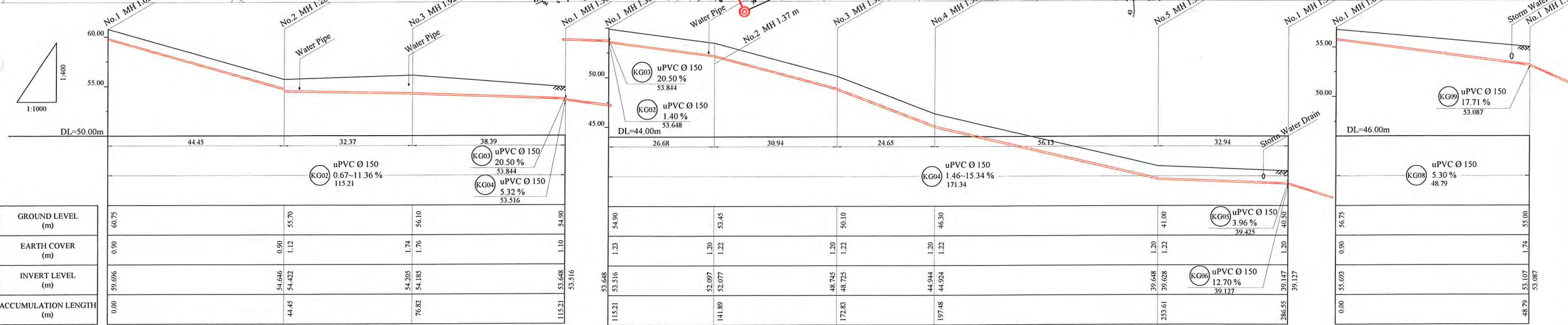
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PLAN VIEW
Scale : 1:1000

	No.1 MH 1.06 m	No.1 MH 1.38 m
GROUND LEVEL (m)	58.00	54.90
EARTH COVER (m)	0.90	0.90
INVERT LEVEL (m)	56.944	53.844
ACCUMULATION LENGTH (m)	0.00	20.00

uPVC Ø 150	5.32 %	53.516
uPVC Ø 150	15.50 %	20.00



GROUND LEVEL (m)	EARTH COVER (m)	INVERT LEVEL (m)	ACCUMULATION LENGTH (m)
60.75	0.90	59.696	0.00
55.70	0.90	54.646	44.45
56.10	1.12	54.422	76.82
54.90	1.74	54.205	115.21
54.90	1.76	54.185	141.89
53.516	1.10	53.648	172.83
53.516	1.20	52.097	197.48
53.516	1.22	52.077	243.61
53.516	1.20	48.745	286.55
53.516	1.22	48.725	39.127
53.516	1.22	44.944	48.79
53.516	1.22	44.924	53.087
53.516	1.20	39.648	53.087
53.516	1.22	39.628	53.087
53.516	1.20	39.425	53.087
53.516	1.20	39.127	53.087

PROJECT: PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT (POMSSUP)

CLIENT: INDEPENDENT PUBLIC BUSINESS CORPORATION
PORT MORESBY SEWERAGE SYSTEM UPGRADING PROJECT
PROJECT MANAGEMENT UNIT (PMU)

CONSULTANTS: NJS CONSULTANTS CO., LTD. - JAPAN

IPBC
INDEPENDENT PUBLIC BUSINESS CORPORATION

jica
JAPAN INTERNATIONAL COOPERATION AGENCY

TITLE: Branch Sewer Pipe Plan and Profile (Kaugere_KG2, KG3, KG4, KG8)

NOTES:

REVISIONS		
REV.	DATE	DESCRIPTION

APPROVED by PMU:
Project Director
Lot G.Zauya

CHECKED by CONSULTANT
Project Manager
T.Fuji

DATE: 1. Dec 2011

SCALE: 1/1000

DATE: 1. Dec 2011

DRAWING NO.: BP-36