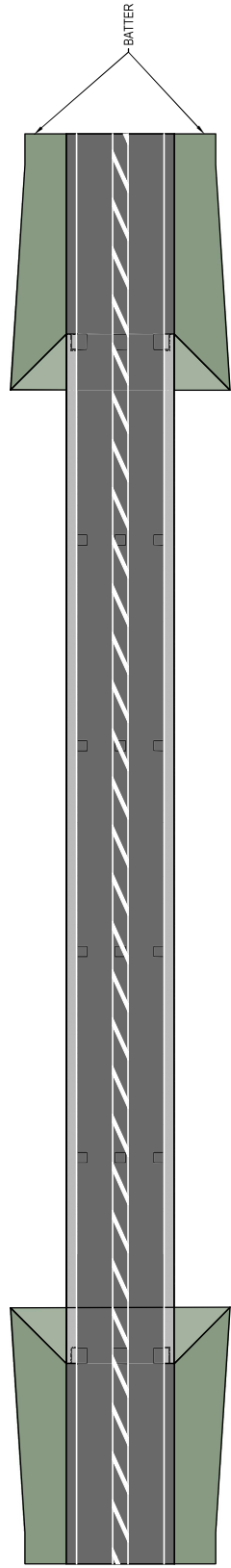
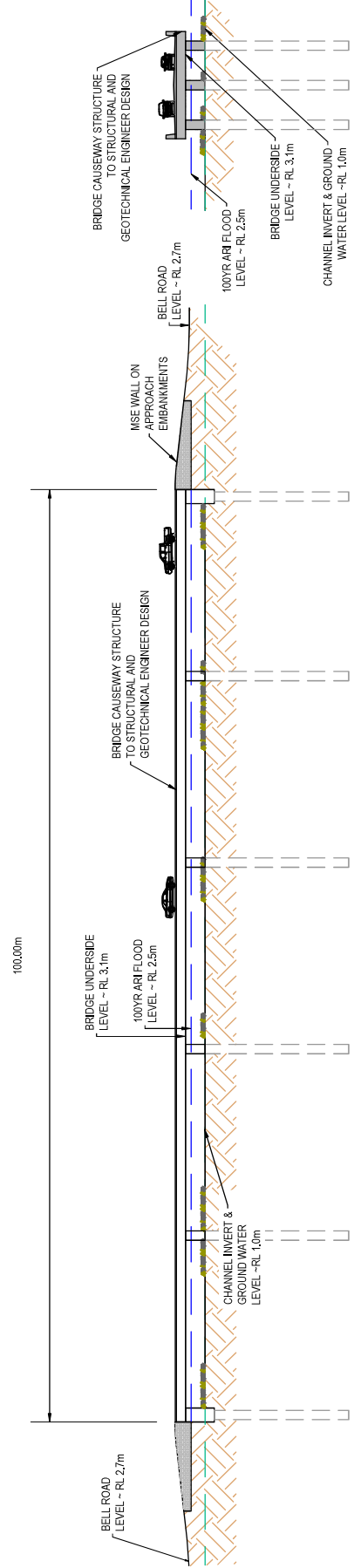


NOTES  
 1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.  
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY HS OPERATIONS.

# BELL ROAD BRIDGE CAUSEWAY



BELL ROAD CAUSEWAY  
PLAN VIEW



BELL ROAD CAUSEWAY  
LONG SECTION

BELL ROAD CAUSEWAY  
CROSS SECTION

**M A M E N**  
 M  
 A  
 M  
 E  
 N

Maven Bay of Plenty  
 118 Cameron Street, Tauranga  
 www.maven.co.nz  
 07 778 9200

Project  
**WAIRAKEI SOUTH FTA090  
 DEVELOPMENT**  
**BELL ROAD, PAPAMOA  
 FOR BELL ROAD  
 LIMITED PARTNERSHIP**

Title  
**STORMWATER  
 CAUSEWAY 1  
 LONGSECTION**

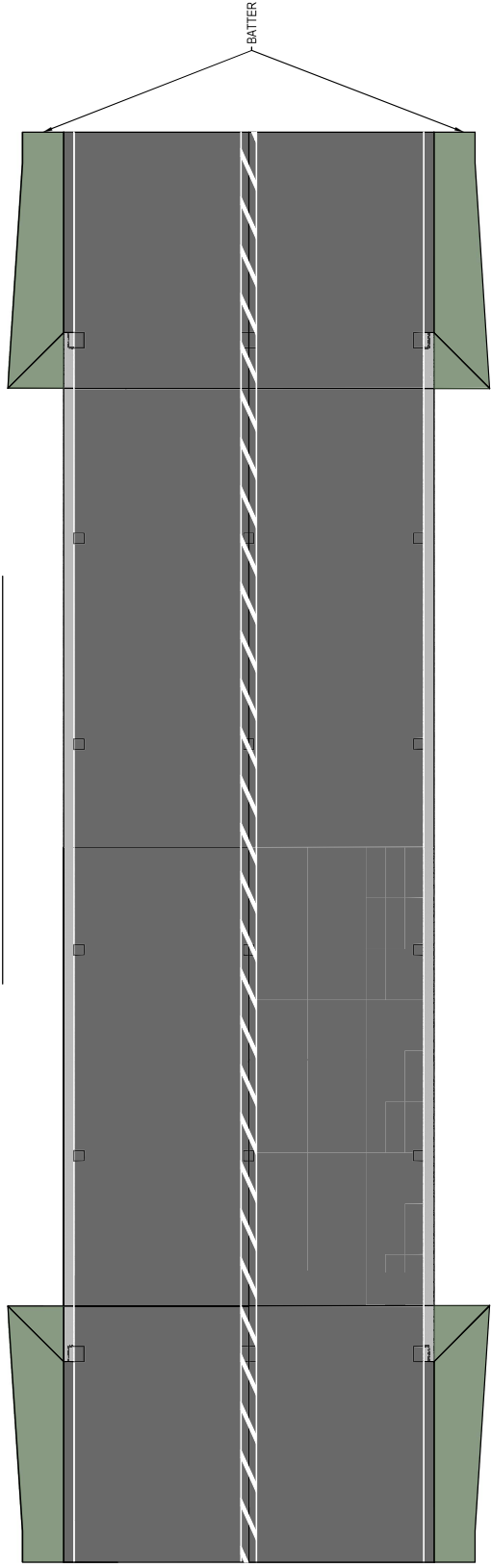
Project no.	BOP0749
Scale	NTS @ A3
Client	BP/PP/SC/21/010
Drawing no.	C470-2-1
Rev	B

FOR CONSENT

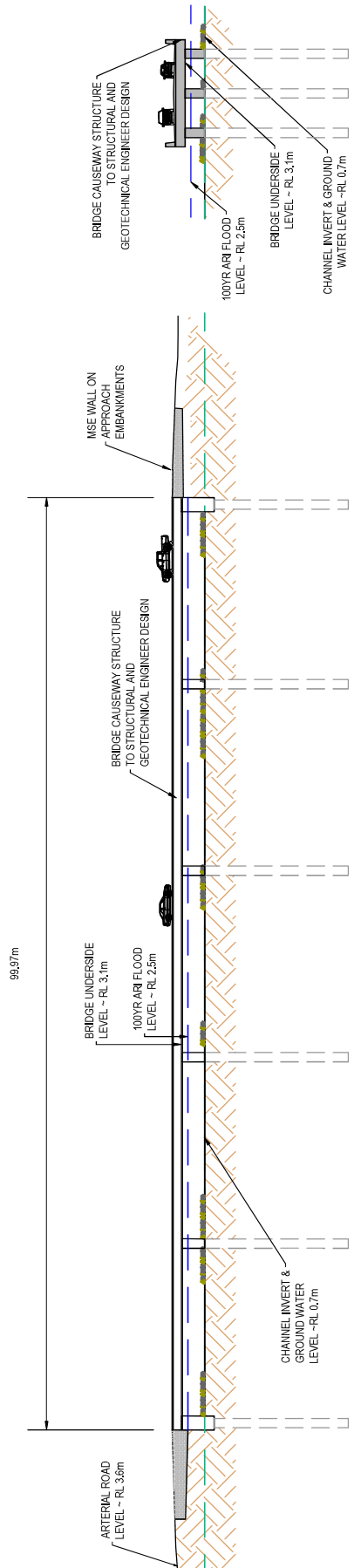
**NOTES**

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2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY HIS OPERATIONS.

**SOUTH BLOCK BRIDGE CAUSEWAY**



**SOUTH BLOCK CAUSEWAY PLAN VIEW**



**SOUTH BLOCK CAUSEWAY LONG SECTION**

**SOUTH BLOCK CAUSEWAY CROSS SECTION**

**M A M E N**  
 Mavon Bay of Plenty  
 118 Cameron Street, Tauranga  
 www.mavon.co.nz  
 07 778 0000

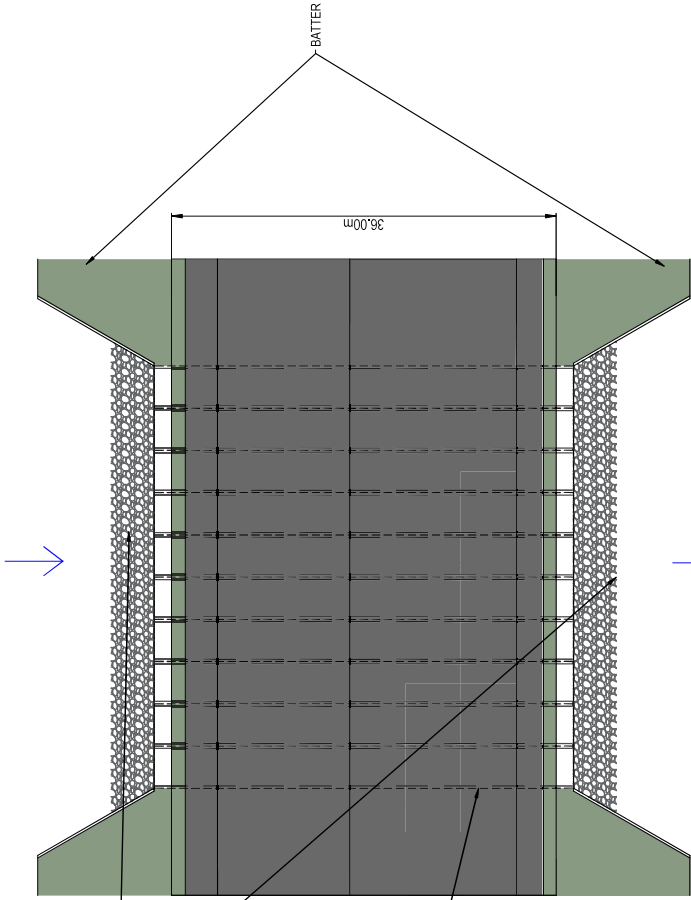
**Project**  
**WAIRAKEI SOUTH FTA090 DEVELOPMENT**  
**BELL ROAD, PAPAMOA FOR BELL ROAD LIMITED PARTNERSHIP**

**Title**  
**STORMWATER CAUSEWAY 2 LONGSECTION**

Project no.	BOP0749
Scale	NTS @ A3
Client	BPO/PO/CA/2/DWG
Drawing no.	CA70-2-2
Rev	B

**FOR CONSENT**

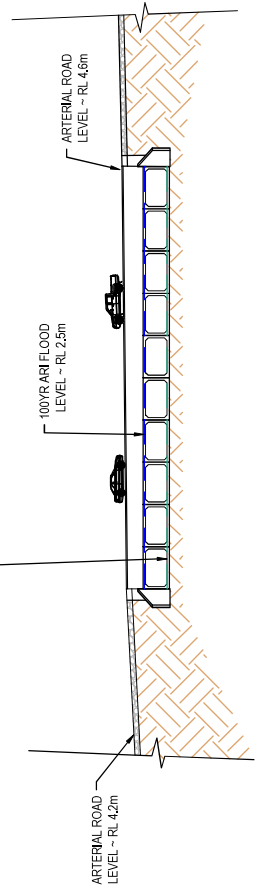
# PEI CULVERT CAUSEWAY



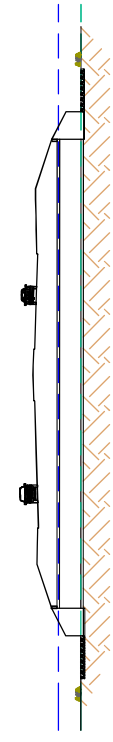
PEI CAUSEWAY PLAN VIEW

ROCK APRON (E.G. RENO MATRESS) EXTENDING BETWEEN 2m AND 4m FROM THE OUTLET STRUCTURE (SUBJECT TO DETAILED DESIGN)

10 BOX CULVERTS TO BE INSTALLED 3500mm WIDTH X 2600mm HEIGHT 225mm THICKNESS



PEI CAUSEWAY LONG SECTION



PEI CAUSEWAY CROSS SECTION

- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
  - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY HS OPERATIONS.

Rev	Description	By	Date
B	FOR CONSENT	VHU	03/2025
A	DRAFT	VHU	12/2025

Survey	MAVEN	05/2025
Design	VHU	12/2025
Drawn	VHU	12/2025
Checked	DC	12/2025

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 www.maven.co.nz  
 (07) 376 2200

**Project**  
**WAIRAKEI SOUTH FTA090**  
**DEVELOPMENT**  
**BELL ROAD, PAPAMOA**  
**FOR BELL ROAD**  
**LIMITED PARTNERSHIP**

**Title**  
**STORMWATER**  
**CAUSEWAY 3**  
**LONGSECTION**

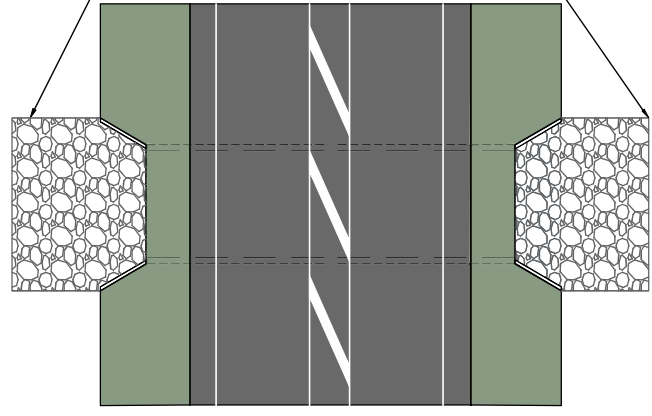
Project no.	BOP0749
Scale	NTS @ A3
Client file	88091543.DWG
Drawing no.	CA70-2-3
Rev	B

**FOR CONSENT**

NOTES  
 1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.  
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY HS OPERATIONS.

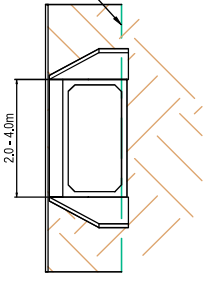
ORIGINAL SIZE: A3

# TYPICAL BOX CULVERT



ROCK APRON (E.G. RENO MATRESS) EXTENDING BETWEEN 2m AND 4m FROM THE OUTLET STRUCTURE (SUBJECT TO DETAILED DESIGN)

TYPICAL CULVERT  
PLAN VIEW



TYPICAL CULVERT  
LONG SECTION

CHANNEL INVERT & GROUND WATER LEVEL

1.0m - 2.0m

TYPICAL CULVERT  
CROSS SECTION

Rev.	Description	By	Date
B	FOR CONSENT	VFU	03/2025
A	DRAFT	VFU	12/2025

Survey	Design	Drawn	Checked
MAVEN	VFU	VFU	DC
05/2025	12/2025	12/2025	12/2025

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**Project**  
 WAIRAKEI SOUTH FTA090  
 DEVELOPMENT  
 BELL ROAD, PAPAMOA  
 FOR BELL ROAD  
 LIMITED PARTNERSHIP

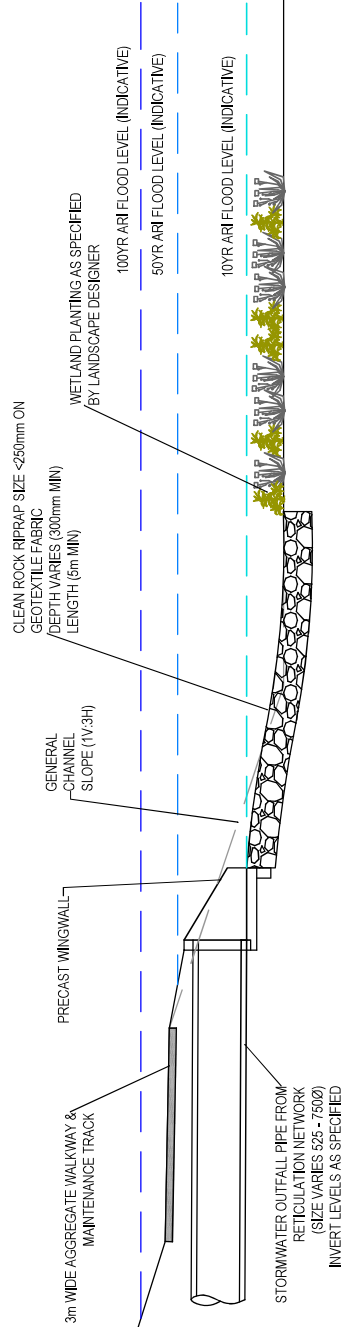
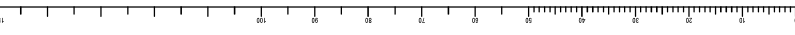
**Title**  
 STORMWATER  
 TYPICAL DETAILS  
 PLAN

Project no.	BOP0749
Scale	1:250 @ A3
Client	BPO/PS/CD/25/DWG
Drawing no.	CA70-3-1
Rev.	B

FOR CONSENT

NOTES  
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ORIGINAL SIZE: A3



TYPICAL STORMWATER OUTFALL DETAIL

Rev	Description	By	Date
B	FOR CONSENT	VHU	03/2025
A	DRAFT	VHU	12/2025

Survey	MAVEN	05/2025
Design	VHU	12/2025
Drawn	VHU	12/2025
Checked	DC	12/2025

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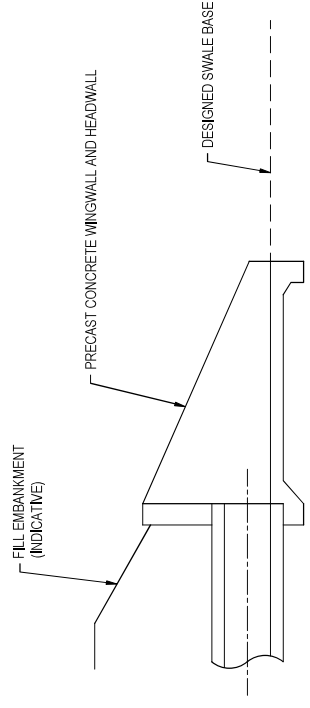
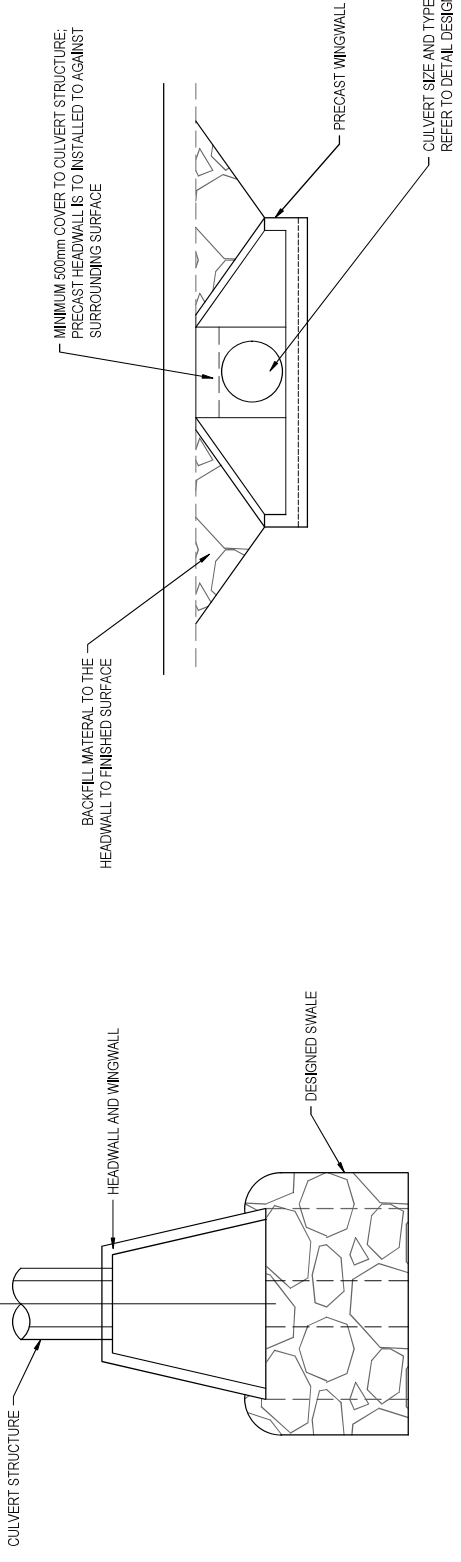
**Project**  
**WAIRAKEI SOUTH FTA090**  
**DEVELOPMENT**  
**BELL ROAD, PAPAMOA**  
**FOR BELL ROAD**  
**LIMITED PARTNERSHIP**

**Title**  
**STORMWATER**  
**TYPICAL DETAILS**  
**PLAN**

Project no.	BOP0749
Scale	1:250 @ A3
Client	BPP/CONSULTING
Drawing no.	C470-3-2
Rev	B

**FOR CONSENT**

- NOTES
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Rev	Description	By	Date
B	FOR CONSENT	VHU	03/2025
A	DRAFT	VHU	12/2025

Survey	M/AVEN	05/2025
Design	V/HU	12/2025
Drawn	V/HU	12/2025
Checked	DC	12/2025

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Project  
**WAIRAKEI SOUTH FTA090**  
**DEVELOPMENT**  
**BELL ROAD, PAPAMOA**  
**FOR BELL ROAD**  
**LIMITED PARTNERSHIP**

Title  
**STORMWATER**  
**TYPICAL DETAILS**  
**PLAN**

Project no.	BOP0749
Scale	1:250 @ A3
Client	BPO/INFRA/D3/DWG
Drawing no.	CA70-3-3
Rev	B

**FOR CONSENT**