

STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN ISSUED FOR REF

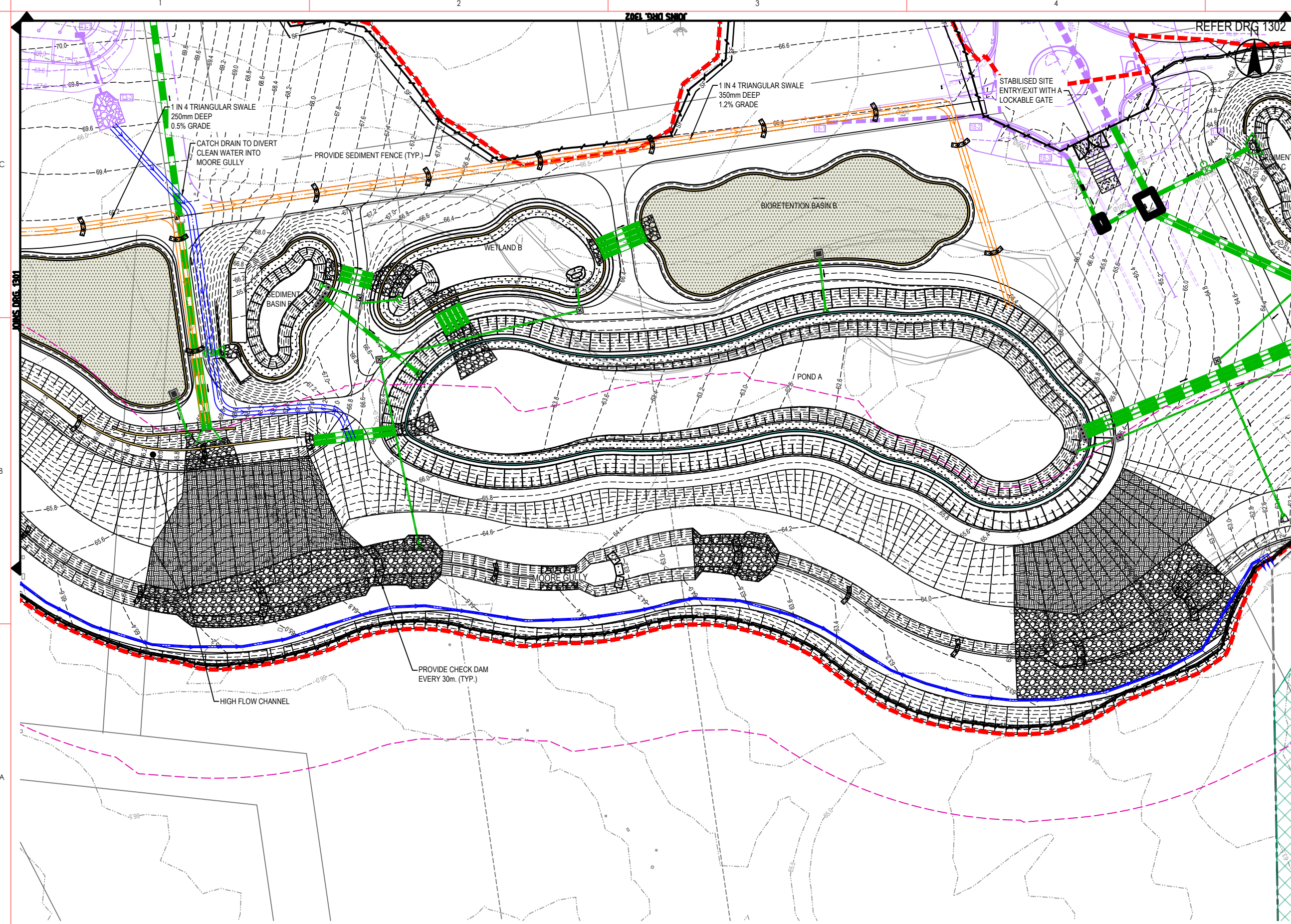
215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

Project Number: 304000968



- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH SYDNEY WATER STANDARDS AND WESTERN SYDNEY ENGINEERING DESIGN MANUAL.
- THE CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORKS WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNER.
- ALL NEW WORKS SHALL HAVE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- LOCATION OF SERVICES ARE APPROXIMATE ONLY AND ALL SERVICES MUST BE LOCATED IN LINE AND LEVEL BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- PRIOR TO COMMENCEMENT OF WORK A SERVICES CHECK SHALL BE CARRIED OUT WITH "BEFORE YOU DIG, AUSTRALIA".
- CONTRACTOR IS TO CLEAR SITE BY REMOVING ALL SURPLUS SOIL, RUBBISH, FENCES, OUTHOUSES, CAR BODIES, DEBRIS, ETC. ALL WASTE MATERIAL TO BE DISPOSED OF IN A LEGAL MANNER.
- ALL SITE REGRADING AREAS ARE TO BE GRADED TO THE SATISFACTION OF THE ENGINEER.
- FILL MATERIAL TO BE APPROVED BY THE QUALIFIED GEOTECHNICAL ENGINEER.
- SURPLUS EXCAVATED MATERIAL TO BE PLACED WHERE DIRECTED BY THE ENGINEER OR REMOVED FROM SITE IN A LEGAL MANNER. ADHERING TO THE TRANSPORT MANAGEMENT PLAN FOR THE CONSTRUCTION OF PROJECT L1.1.
- DRAINAGE LINES ON HIGH SIDE TO BE BACKFILLED WITH SHARP SAND AND HAVE 3m OF AGRICULTURAL LINE WRAPPED IN APPROVED FILTER FABRIC DISCHARGING INTO DOWNSTEAM PITS OR AS DIRECTED BY THE ENGINEER.
- ALL PITS DEEPER THAN 1.2m TO HAVE STEP IRONS, IN ACCORDANCE WITH WESTER SYSTEMS POWER POOL (WSPM) STANDARD DRAWINGS SD-S09.
- ALL CONCRETE TO HAVE A MINIMUM STRENGTH GRADE OF N25 UNLESS NOTED OTHERWISE.
- CLEAR COVER OF REINFORCEMENT IS 65mm UNLESS NOTED OTHERWISE.
- A MINIMUM 50mm APPROVED GRANULAR BEDDING TO BE PROVIDED UNDER ALL CONCRETE UNLESS NOTED OTHERWISE.
- BEDDING OF STORMWATER PIPES TO BE MINIMUM HS3 STANDARD UNLESS NOTED OTHERWISE.
- NO TREES IN THE ENV AND ENZ ARE TO BE FELLED, LOPPED OR REMOVED WITHOUT PRIOR APPROVAL. THIS INCLUDES DAMAGE TO TREE ROOT SYSTEMS.
- ALL DISTURBED TURFED AREAS AND BATTERS TO BE TOPSOILED AND TURFED OR STABILISED WITH SPRAY GRASS AS DIRECTED BY THE ENGINEER.
- ALL DIMENSIONS ARE IN METRES (m) UNLESS NOTED OTHERWISE.
- MEASUREMENTS SHALL BE TAKEN FROM THE DIMENSIONS SHOWN AND ARE NOT TO BE SCALED FROM THE DRAWINGS.
- ANY DAMAGE TO PUBLIC ROADWAYS AS A RESULT OF THE WORKS IS TO BE REPAIRED TO THE SATISFACTION OF COUNCIL'S MANAGER MAINTENANCE SERVICE.
- EXISTING SERVICES SHALL BE ADEQUATELY PROTECTED DURING CONSTRUCTION TO RELEVANT AUTHORITY'S REQUIREMENTS.
- SEDIMENT AND EROSION CONTROL MEASURES TO BE IMPLEMENTED AND MAINTAINED IN ACCORDANCE WITH WESTERN SYDNEY ENGINEERING DESIGN MANUAL.
- CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY A SUITABLY QUALIFIED PERSON FOR APPROVAL TO SYDNEY WATER A MINIMUM OF 2 WEEKS PRIOR TO COMMENCING WORKS. ALL TRAFFIC CONTROL PLANS SHALL BE APPROVED BY SYDNEY WATER BEFORE BEING IMPLEMENTED.
- TRAFFIC CONTROL SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE APPROVED TRAFFIC MANAGEMENT PLAN AND BY SUITABLY TRAINED AND ACCREDITED STAFF.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH AND SAFETY ACT REQUIREMENTS.
- CONTRACTOR SHALL ENSURE THAT ALL EXCAVATIONS AND ADJOINING STRUCTURES ARE MAINTAINED IN A SAFE AND STABLE CONDITION AT ALL TIMES AND PROVIDE SHORING OR SUPPORTS AS REQUIRED. FOR EXCAVATIONS DEEPER THAN 1.5m SEEK GEOTECHNICAL ADVICE.
- CONTRACTOR TO ASSESS MANUAL HANDLING REQUIREMENTS AND COMPLY WITH APPLICABLE STATUTORY REQUIREMENTS AND MANUFACTURERS SPECIFICATIONS AND DIRECTIONS.
- ALL WORKS TO COMPLY WITH THE REVIEW OF ENVIRONMENTAL FACTORS (REF).

- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.



LEGEND

- EXTENT OF WORKS
- SITE FENCE
- SEDIMENT FENCE
- CHECK DAM
- HAYBALE
- ROCK RIPRAP
- JUTE MESH
- EXISTING CONTOURS
- DESIGN CONTOURS
- SMEC DESIGN LINEWORKS
- RIPARIAN CORRIDOR
- ENVIRONMENT PROTECTION ZONE
- PROPOSED STORMWATER PIPE
- PROPOSED STORMWATER PIT
- PROPOSED HEADWALL
- GEOTEXTILE FILTER
- EXISTING TREES
- TEMPORARY DIRTY WATER DIVERSION DRAIN
- TEMPORARY CLEAN WATER DIVERSION DRAIN
- FUTURE PIPE EXTENSION SUBJECT TO SEPARATE APPROVAL

NOTES

- REFER DRG 1011-1012 FOR GENERAL NOTES.
- REFER DRG 1131 FOR SOIL AND WATER MANAGEMENT DETAILS.

Notes

0 10 20 30 40 50m
SCALE 1:500 @A1

Issued/Revision				By				Appd			
5	ISSUED FOR REF	DC	PL	2024.11.27							
4	ISSUED FOR REF	YL	PL	2024.11.21							
3	ISSUED FOR REF - 50% DESIGN	YL	RO	2024.02.02							
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20							
1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.29							

Issue Status

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Notes

File Name:
304000968-100-C1101-C1104

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Client/Project Logo

NSW Western Parkland City Authority

Client/Project
BRADFELD CITY

STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL	2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

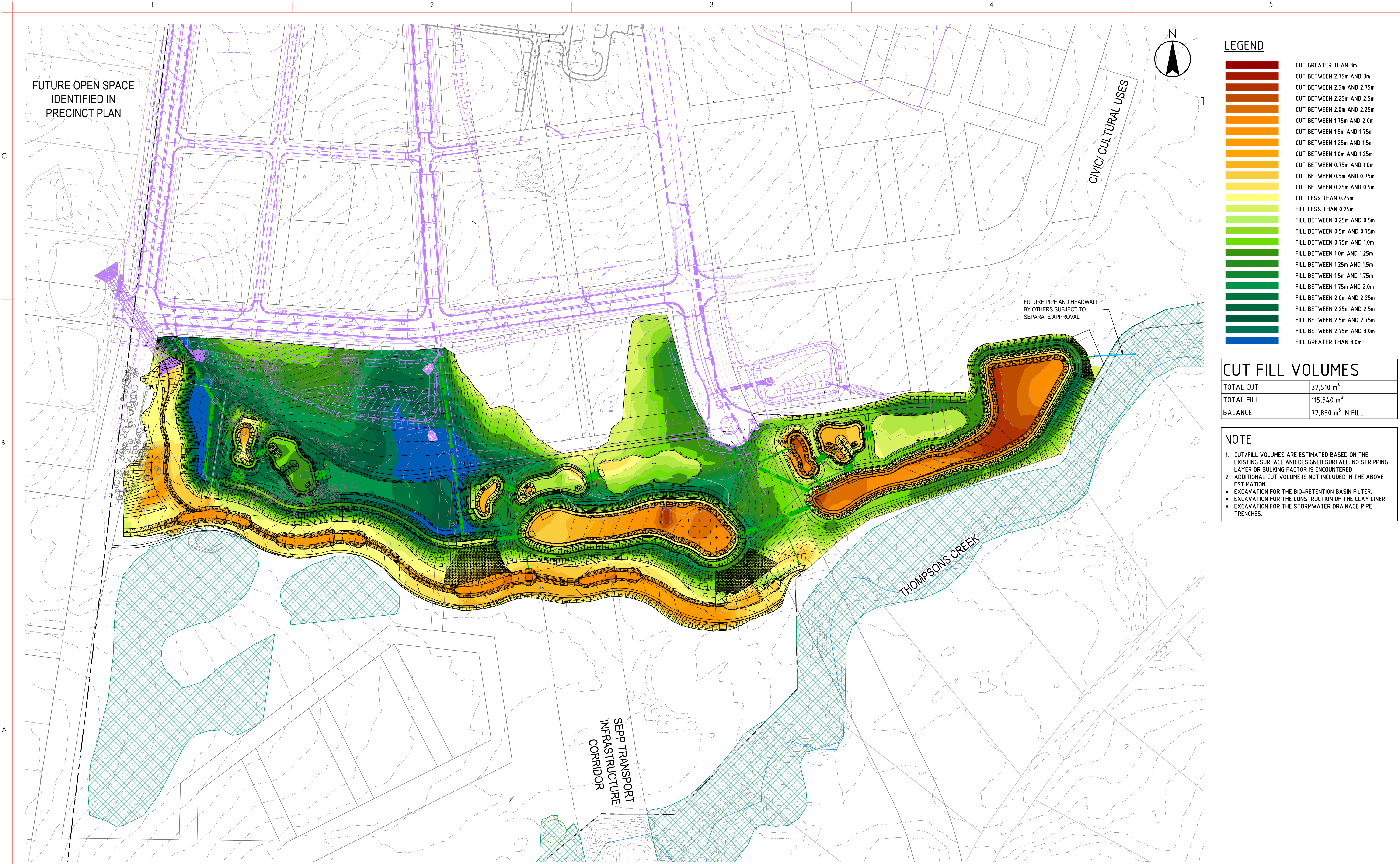
Title
SEDIMENT & EROSION CONTROL PLAN SHEET 3

Project No.
304000968

Revision
5

Scale
1:500 A1

Drawing No.
304000968-100-C1103



LEGEND

	CUT GREATER THAN 3m
	CUT BETWEEN 2.75m AND 3m
	CUT BETWEEN 2.5m AND 2.75m
	CUT BETWEEN 2.25m AND 2.5m
	CUT BETWEEN 2.0m AND 2.25m
	CUT BETWEEN 1.75m AND 2.0m
	CUT BETWEEN 1.5m AND 1.75m
	CUT BETWEEN 1.25m AND 1.5m
	CUT BETWEEN 1.0m AND 1.25m
	CUT BETWEEN 0.75m AND 1.0m
	CUT BETWEEN 0.5m AND 0.75m
	CUT BETWEEN 0.25m AND 0.5m
	CUT LESS THAN 0.25m
	FILL LESS THAN 0.25m
	FILL BETWEEN 0.25m AND 0.5m
	FILL BETWEEN 0.5m AND 0.75m
	FILL BETWEEN 0.75m AND 1.0m
	FILL BETWEEN 1.0m AND 1.25m
	FILL BETWEEN 1.25m AND 1.5m
	FILL BETWEEN 1.5m AND 1.75m
	FILL BETWEEN 1.75m AND 2.0m
	FILL BETWEEN 2.0m AND 2.25m
	FILL BETWEEN 2.25m AND 2.5m
	FILL BETWEEN 2.5m AND 2.75m
	FILL BETWEEN 2.75m AND 3.0m
	FILL GREATER THAN 3.0m

CUT FILL VOLUMES

TOTAL CUT	37,510 m ³
TOTAL FILL	115,340 m ³
BALANCE	77,830 m ³ IN FILL

NOTE

- CUT/FILL VOLUMES ARE ESTIMATED BASED ON THE EXISTING SURFACE AND DESIGNED SURFACE. NO STRIPPING LAYER OR BULKING FACTOR IS ENCOUNTERED.
- ADDITIONAL CUT VOLUME IS NOT INCLUDED IN THE ABOVE ESTIMATION:
 - EXCAVATION FOR THE BIO-RETENTION BASIN FILTER.
 - EXCAVATION FOR THE CONSTRUCTION OF THE CLAY LINER.
 - EXCAVATION FOR THE STORMWATER DRAINAGE PIPE TRENCHES.

Notes

0 50 100 150 200m
SCALE 1:2000 @A1

5	ISSUED FOR REF	DC	PL	2024.11.27
4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
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1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.29

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Client/Project Logo

Client/Project
BRADFELD CITY

STORMWATER TRUNK INFRASTRUCTURE,
SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL	2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ # YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title
CUT AND FILL PLAN

Project No.
304000968

Revision
5

Scale
1:2000 A1

Drawing No.
304000968-100-C1141

PLANS 2/11/2024 12:04 PM BY: SWADINCE, JENNIFER
C:\AUDIT\BAYVIEW_C2020\BAYVIEW_C2020\BAYVIEW_C2020\BAYVIEW_C2020\MOORE_GULLY\DRAWINGS

Notes



5	ISSUED FOR REF.	DC	PL	2024.11.27
4	ISSUED FOR REF.	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
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Client/Project Logo



Client/Project

BRADFELD CITY

**STORMWATER TRUNK INFRASTRUCTURE,
SEDIMENT BASINS, WETLANDS AND PONDS DESIGN**

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL	2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ # YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

**SITeworks PLAN
SHEET 1**

Project No.
304000968
Revision
5

Drawing No.
304000968-100-C1301

Scale
1:500 A1

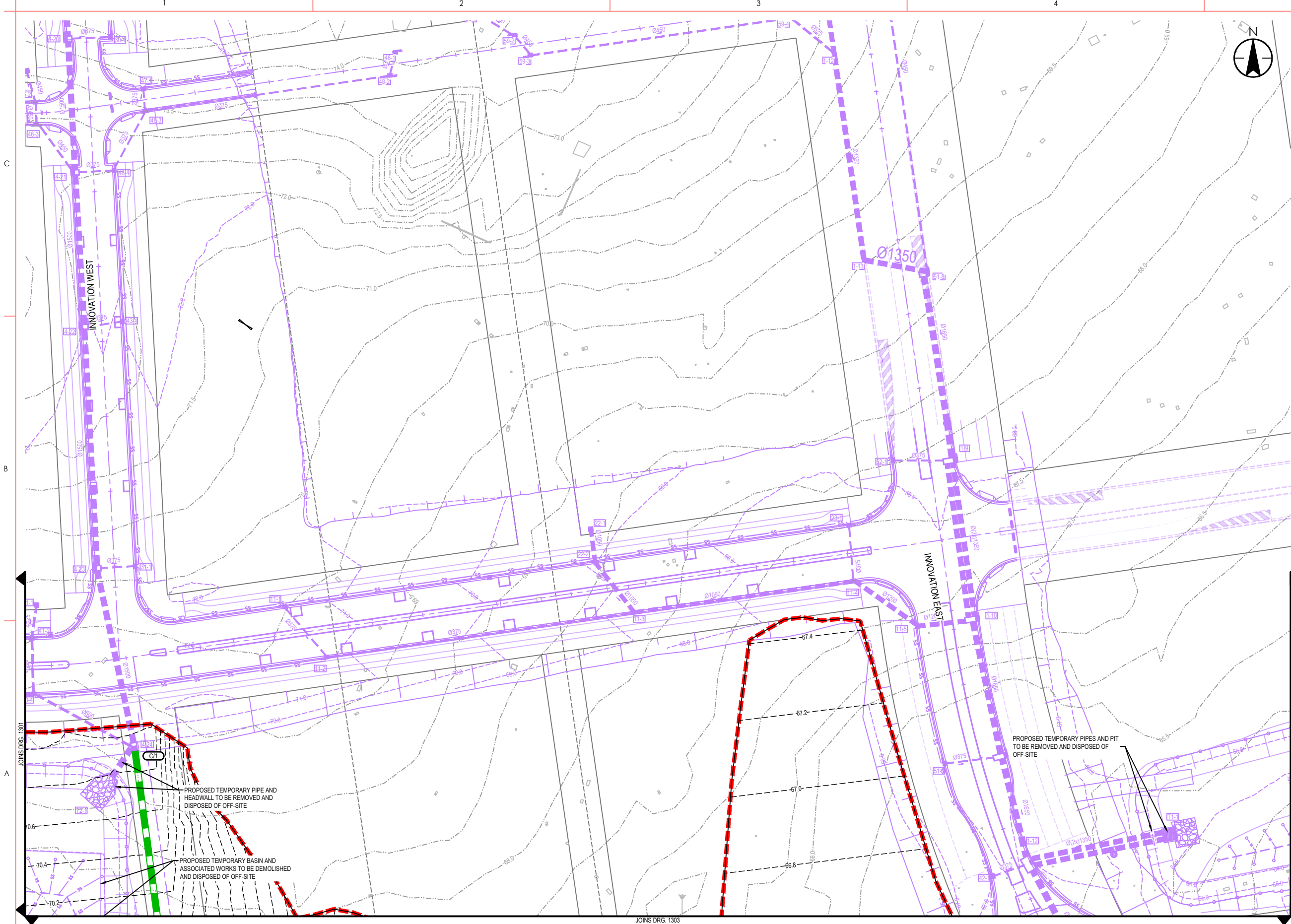
LEGEND

- EXTENT OF WORKS
- EXISTING CONTOURS
- DESIGN CONTOURS
- PROPOSED SANDSTONE WALL
MAXIMUM 500mm HIGH
- SMEC DESIGN LINEWORK
- STORMWATER DRAINAGE PIPE
DESIGNED BY SMEC
- RIPARIAN CORRIDOR
- ENVIRONMENT PROTECTION ZONE
- BATTER SLOPE
- PROPOSED STORMWATER PIPE
- PROPOSED STORMWATER PIT
- PROPOSED HEADWALL
- PROPOSED SCOUR PROTECTION
- PROPOSED JUTE MESH
- EXISTING TREES
- STORMWATER PIT LABEL
- 3.5m WIDE VEHICLE ACCESS ROAD,
REFER TO LANDSCAPE DRAWING
FOR PAVEMENT SPECIFICATION
- 2.5m WIDE PEDESTRIAN PATH,
REFER TO LANDSCAPE DRAWING
FOR PAVEMENT SPECIFICATION
- 5% AEP WATER LEVEL
- 1% AEP WATER LEVEL IN MOORE
GULLY
- POOL
- RIFFLE
- ENERGY DISSIPATOR POOL
- FUTURE PIPE EXTENSION SUBJECT
TO SEPARATE APPROVAL

C

B

A



- LEGEND**
- EXTENT OF WORKS
 - EXISTING CONTOURS
 - DESIGN CONTOURS
 - PROPOSED SANDSTONE WALL
MAXIMUM 500mm HIGH
 - SMEC DESIGN LINework
 - STORMWATER DRAINAGE PIPE
DESIGNED BY SMEC
 - RIPARIAN CORRIDOR
 - ENVIRONMENT PROTECTION ZONE
 - BATTER SLOPE
 - PROPOSED STORMWATER PIPE
 - PROPOSED STORMWATER PIT
 - PROPOSED HEADWALL
 - PROPOSED SCOUR PROTECTION
 - PROPOSED JUTE MESH
 - EXISTING TREES
 - STORMWATER PIT LABEL
 - 3.5m WIDE VEHICLE ACCESS ROAD,
REFER TO LANDSCAPE DRAWING
FOR PAVEMENT SPECIFICATION
 - 2.5m WIDE PEDESTRIAN PATH,
REFER TO LANDSCAPE DRAWING
FOR PAVEMENT SPECIFICATION
 - 5% AEP WATER LEVEL
 - 1% AEP WATER LEVEL IN MOORE
GULLY
 - POOL
 - RIFFLE
 - ENERGY DISSIPATOR POOL
 - FUTURE PIPE EXTENSION SUBJECT
TO SEPARATE APPROVAL

Notes

0 10 20 30 40 50m

SCALE 1:500 @A1

Issued/Revision		By	Appd	YYYY.MM.DD
5	ISSUED FOR REF	DC	PL	2024.11.27
4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.29

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Client/Project Logo

NSW **Western Parkland City**
Authority

Client/Project
BRADFELD CITY

STORMWATER TRUNK INFRASTRUCTURE,
SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL	2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.

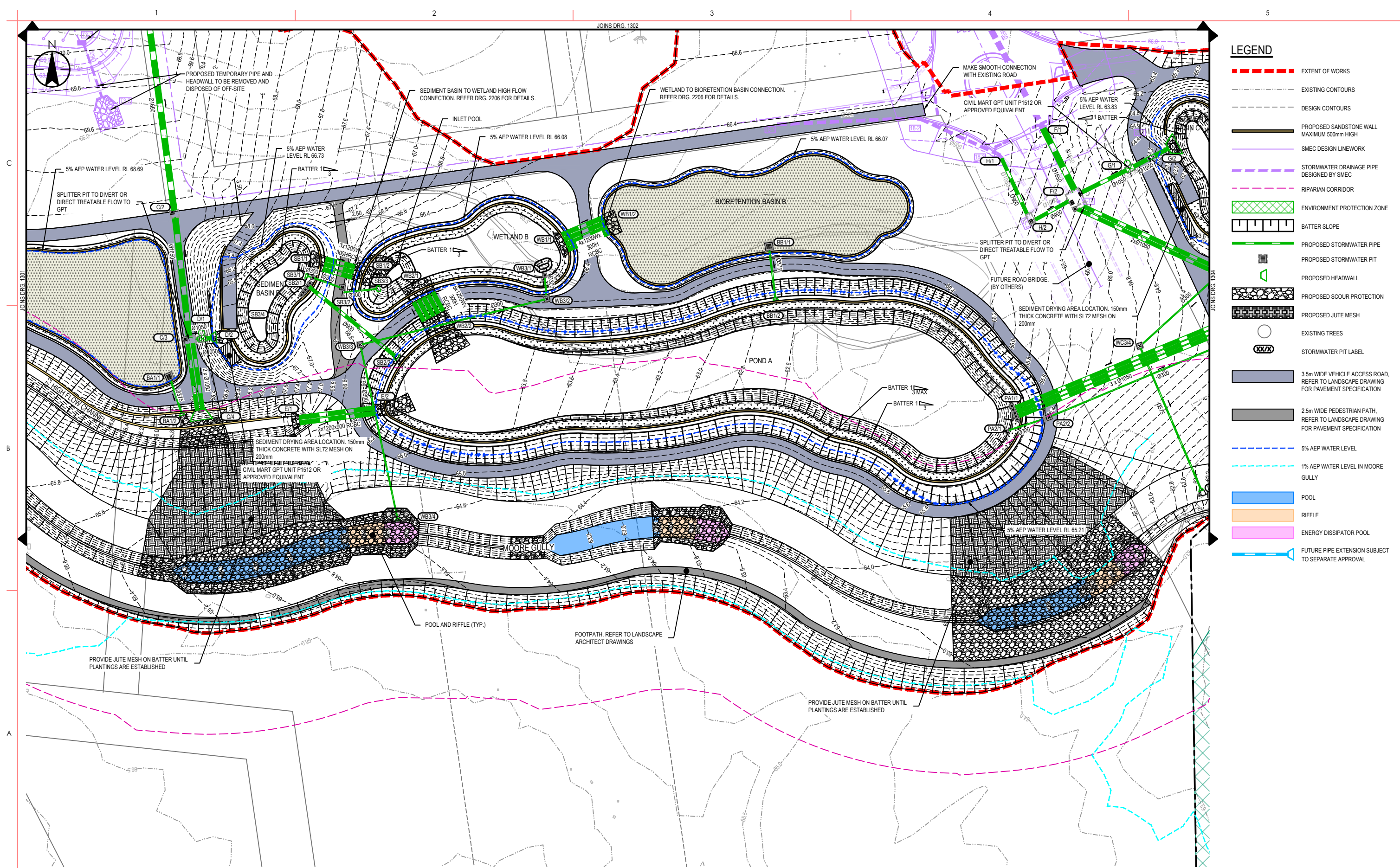
Title
SITEWORKS PLAN
SHEET 2

Project No.
304000968

Revision
5

Scale
1:500 A1

Drawing No.
304000968-100-C1302



- LEGEND**
- EXTENT OF WORKS
 - EXISTING CONTOURS
 - DESIGN CONTOURS
 - PROPOSED SANDSTONE WALL
MAXIMUM 500mm HIGH
 - SMEC DESIGN LINEWORK
 - STORMWATER DRAINAGE PIPE
DESIGNED BY SMEC
 - RIPARIAN CORRIDOR
 - ENVIRONMENT PROTECTION ZONE
 - BATTER SLOPE
 - PROPOSED STORMWATER PIPE
 - PROPOSED STORMWATER PIT
 - PROPOSED HEADWALL
 - PROPOSED SCOUR PROTECTION
 - PROPOSED JUTE MESH
 - EXISTING TREES
 - STORMWATER PIT LABEL
 - 3.5m WIDE VEHICLE ACCESS ROAD,
REFER TO LANDSCAPE DRAWING
FOR PAVEMENT SPECIFICATION
 - 2.5m WIDE PEDESTRIAN PATH,
REFER TO LANDSCAPE DRAWING
FOR PAVEMENT SPECIFICATION
 - 5% AEP WATER LEVEL
 - 1% AEP WATER LEVEL IN MOORE
GULLY
 - POOL
 - RIFFLE
 - ENERGY DISSIPATOR POOL
 - FUTURE PIPE EXTENSION SUBJECT
TO SEPARATE APPROVAL

Notes

0 10 20 30 40 50m

SCALE 1:500 @A1

Issued/Revision	By	Appd	YYYY.MM.DD
5 ISSUED FOR REF	DC	PL	2024.11.27
4 ISSUED FOR REF	YL	PL	2024.11.21
3 ISSUED FOR REF - 50% DESIGN	YL	RO	2024.02.02
2 ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
1 ISSUED FOR 50% DESIGN	YL	PL	2023.09.29

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Notes

File Name:

304000968-100-C1301-C1304

Client/Project Logo

Client/Project

BRADFELD CITY

STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

Client/Project Logo

NSW Western Parkland City Authority

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Title

SITeworks PLAN SHEET 3

Project No.

304000968

Revision

5

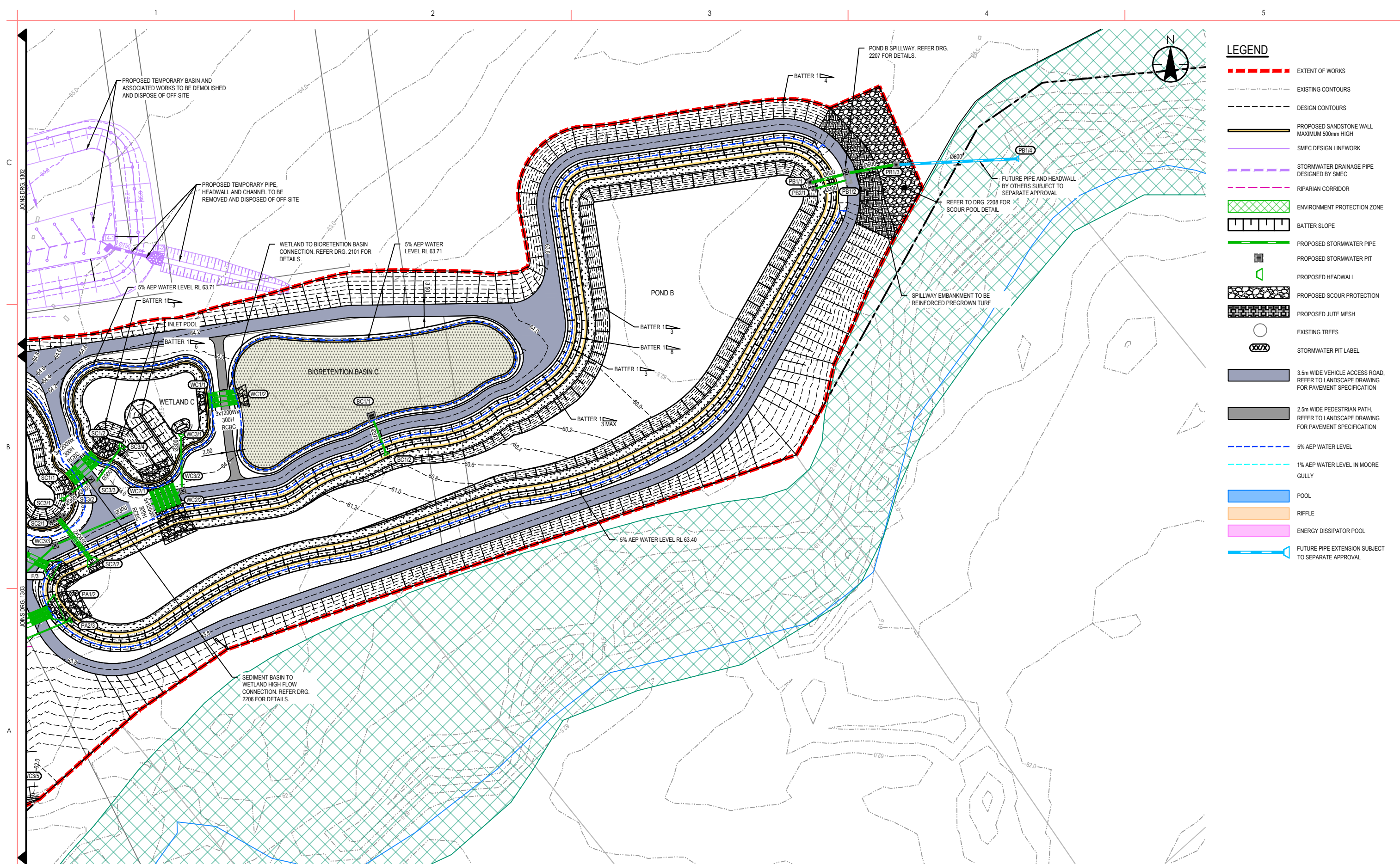
Scale

1:500 A1

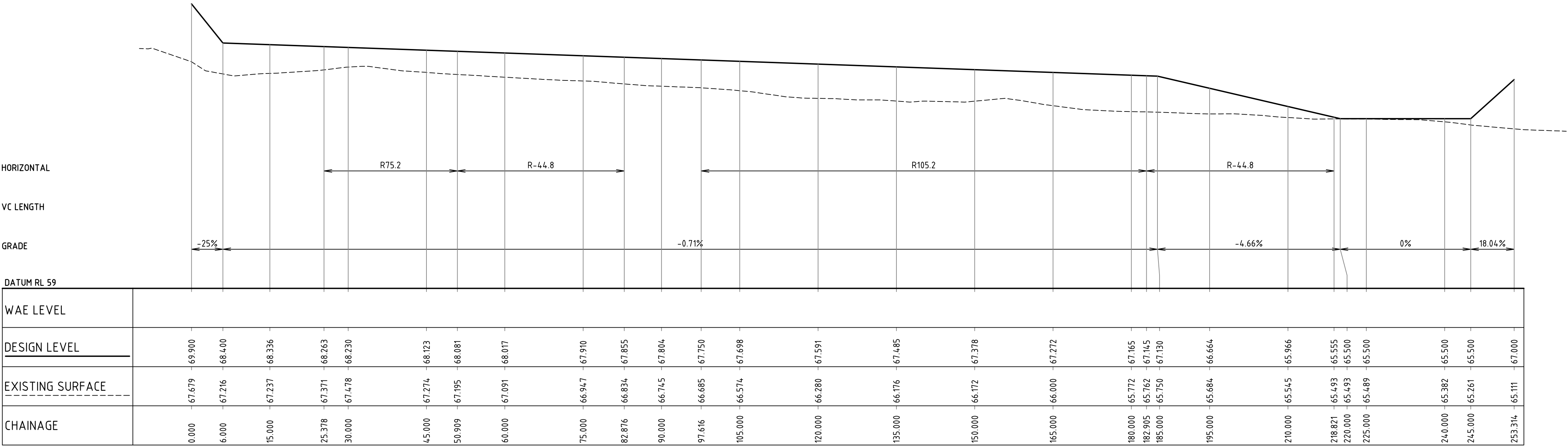
Drawing No.

304000968-100-C1303

PLAN 215 BADGERYS CREEK ROAD, BRADFELD CITY, NSW 2556
STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN
SHEET 3 OF 3
DATE: 2024.11.27
DRAWN BY: J. HANSEN
CHECKED BY: J. HANSEN
APPROVED BY: J. HANSEN
PROJECT NO: 304000968
DRAWING NO: 304000968-100-C1303



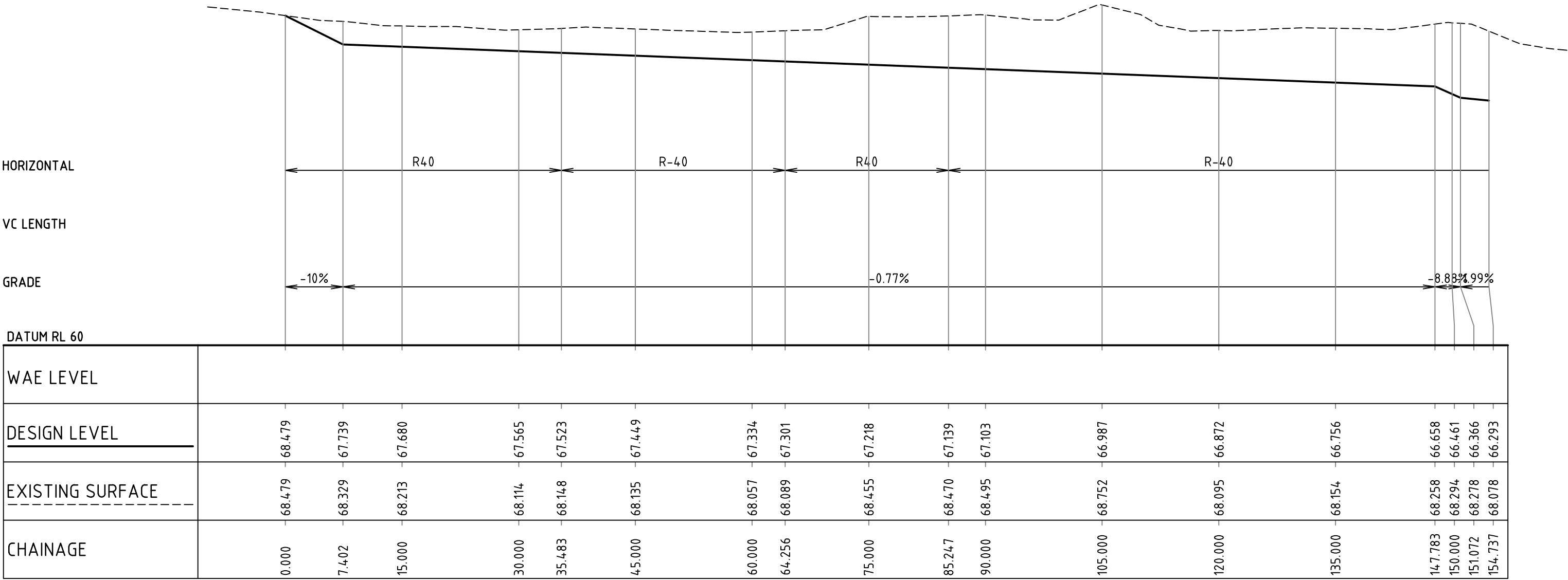
C



HIGH FLOW CHANNEL LONGITUDINAL SECTION

1:500 HORI.
1:100 VERT.

B



MOORE GULLY TRIBUTARY LONGITUDINAL SECTION

1:500 HORI.
1:100 VERT.

A

Notes

H: 0 10 20 30 40 50m

V: 0 2 4 6 8 10m

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

@A1

4 ISSUED FOR REF

3 ISSUED FOR REF - 50% DESIGN

2 ISSUED FOR REF - 50% DESIGN

1 ISSUED FOR 50% DESIGN

YL

YL

YL

YL

PL

PL

RO

PL

2024.11.21

2024.02.02

2023.12.20

2023.09.29

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By

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Notes

File Name:

304000968-100-C1351-C1352

Stantec

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Client/Project Logo

NSW GOVERNMENT

Western Parkland City Authority

Client/Project

BRADFELD CITY

STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL

Authorised

2023.09.29

RPEQ #

YYYY.MM.DD

BW

Dwn.

YL

Dsgn.

RO

Chkd.

2023.09.29

YYYY.MM.DD

Title

MOORE GULLY LONGITUDINAL SECTIONS

SHEET 1

Project No.

304000968

Revision

4

Scale

AS SHOWN A1

Drawing No.

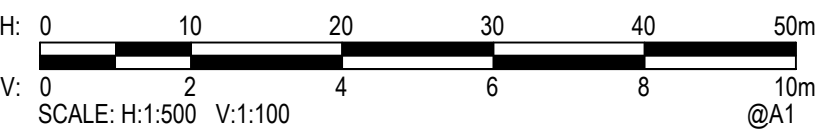
304000968-100-C1351

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ORIGINAL SHEET - ISO A1 COORD - MGA 2020 DATUM - AHD

P:\P000\2024\24118.PN By CHONG, BRITANY
C:\Users\BRITANY\OneDrive\Documents\2024\24118.MXD MOORE GULLY DRAWING

Notes



4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
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File Name:
304000968-100-C1351-C1352



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Client/Project Logo



Client/Project

BRADFIELD CITY

STORMWATER TRUNK INFRASTRUCTURE,
SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL	2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ # YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

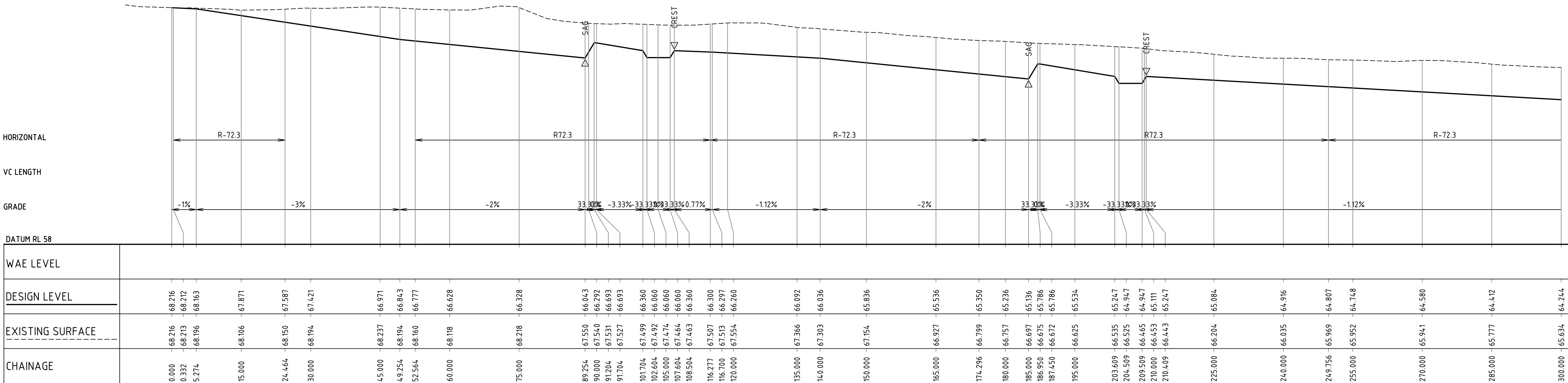
Title

MOORE GULLY
LONGITUDINAL SECTIONS
SHEET 2

Project No.
304000968
Revision
4

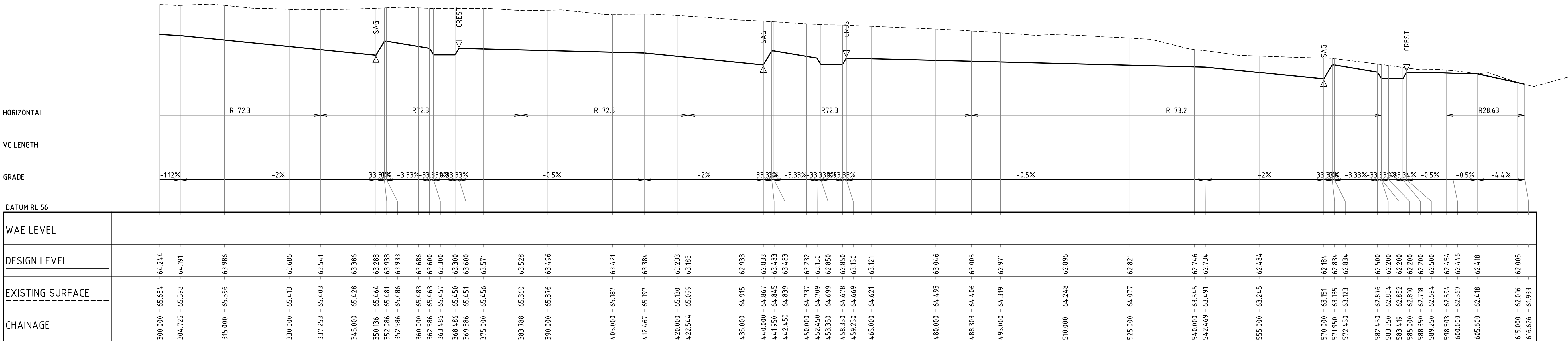
Scale
AS SHOWN A1

Drawing No.
304000968-100-C1352



MOORE GULLY LONGITUDINAL SECTION

1:500 HORI.
1:100 VERT.

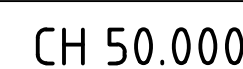


MOORE GULLY LONGITUDINAL SECTION

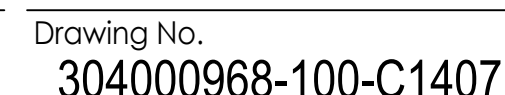
1:500 HORI.
1:100 VERT.

B

A



Plotted: 22/11/2024 2:41:35 PM By: DEBONO, BRITTANY
 33.111012121A011 C:\E025\SHARED PROJECTS\30400008\100 MOORE CUII V. DRAWINGS

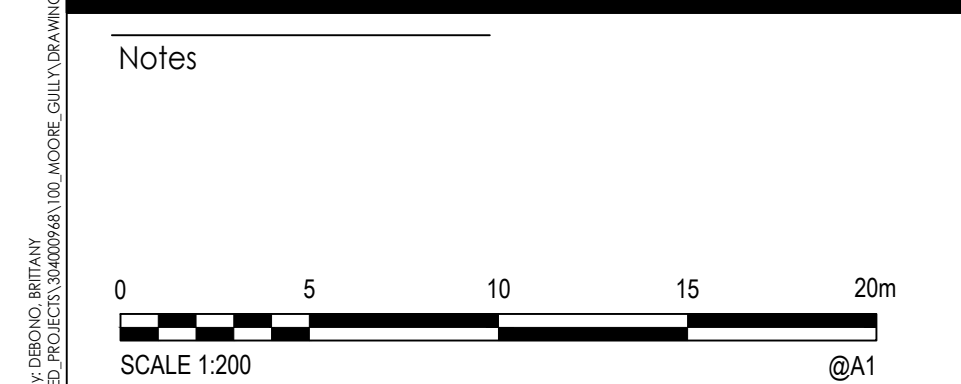




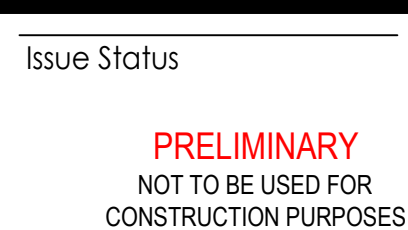
B



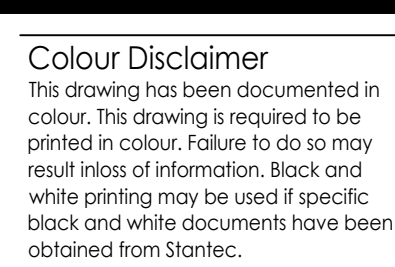
MOORE GULLY



4	ISSUED FOR REF	YL	PL 2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL 2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO 2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL 2023.09.29
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Western Parkland City
Authority

BRADFIELD CITY

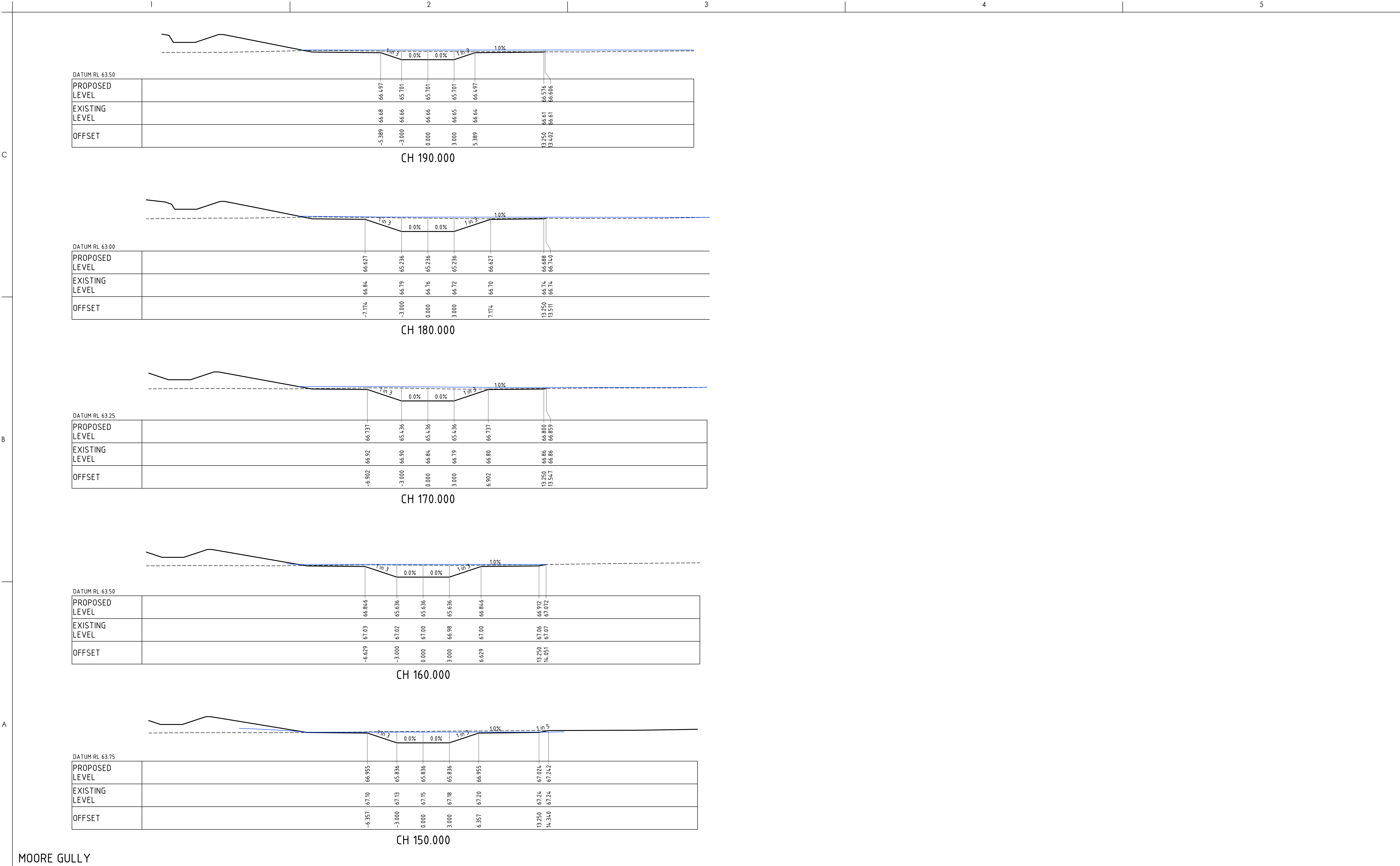
STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL		2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

MOORE GULLY
CROSS SECTIONS
SHEET 8

Project No.	Scale
304000968	1:200 A1
Revision	Drawing No.
4	304000968-100-C1408



Notes

0 5 10 15 20m

SCALE 1:200

@A1

4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
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Client/Project Logo

NSW GOVERNMENT

Western Parkland City Authority

Client/Project

BRADFIELd CITY

STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL	2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

MOORE GULLY CROSS SECTIONS SHEET 9

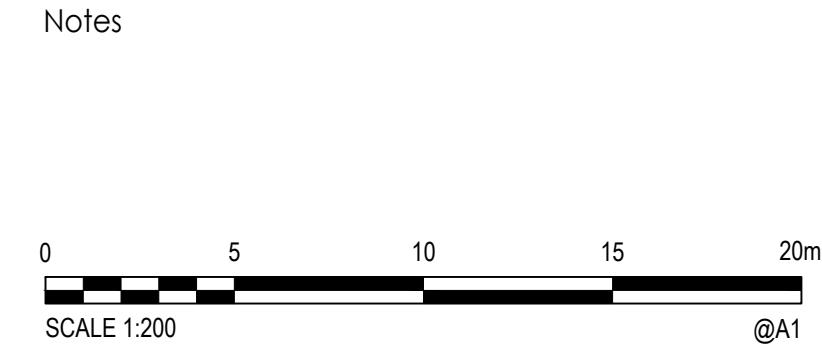
Project No. 304000968

Revision 4

Scale 1:200 A1

Drawing No. 304000968-100-C1409

PNPNSZ 22/11/2024 2:14:14 PM By CHB/DWG BRITANNIA
C:\A0202\HAPFL_C0207\BAMRD PROJECT\30400968\100 MOORE GULLY\DRAWINGS



4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.29
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BRADFELD CITY

STORMWATER TRUNK INFRASTRUCTURE,
SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL	2023.09.29	BW	YL	RO	2023.09.29
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Title

MOORE GULLY
CROSS SECTIONS
SHEET 10

Project No.
304000968
Revision
4

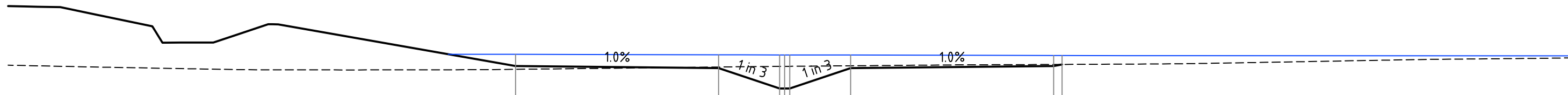
Scale
1:200 A1

Drawing No.
304000968-100-C1410

C

B

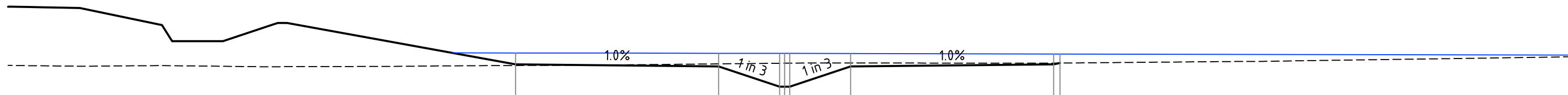
A



DATUM RL 63.00

PROPOSED LEVEL	66.128	66.028	65.028	65.028	66.028	66.128	66.210
EXISTING LEVEL			66.11	66.11	66.12	66.21	66.21
OFFSET	-13.250	-3.250	-0.250	0.000	0.250	13.250	13.660

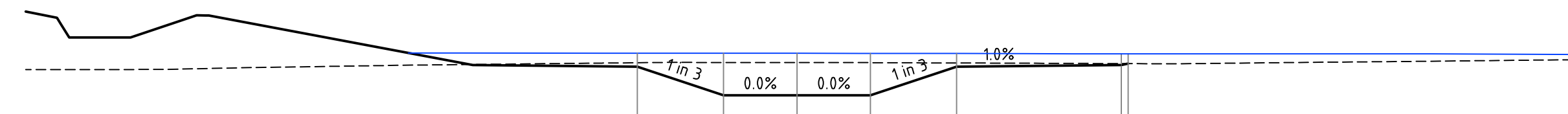
CH 230.000



DATUM RL 63.00

PROPOSED LEVEL	66.240	66.140	65.140	65.140	66.140	66.240	66.303
EXISTING LEVEL			66.29	66.30	66.30	66.30	66.30
OFFSET	-13.250	-3.250	-0.250	0.000	0.250	13.250	13.564

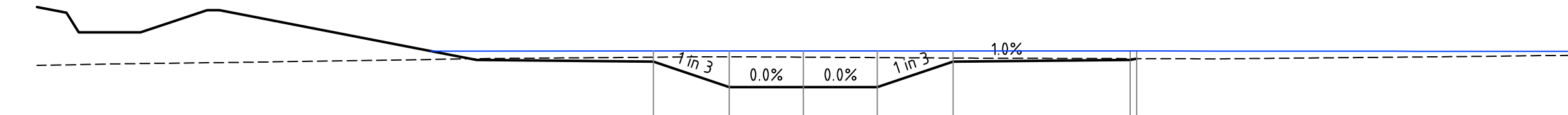
CH 220.000



DATUM RL 63.00

PROPOSED LEVEL	66.285	65.111	65.111	65.111	66.285	66.352	66.408
EXISTING LEVEL	66.45	66.46	66.45	66.45	66.44	66.41	66.41
OFFSET	-6.521	-3.000	0.000	3.000	6.521	13.250	13.529

CH 210.000

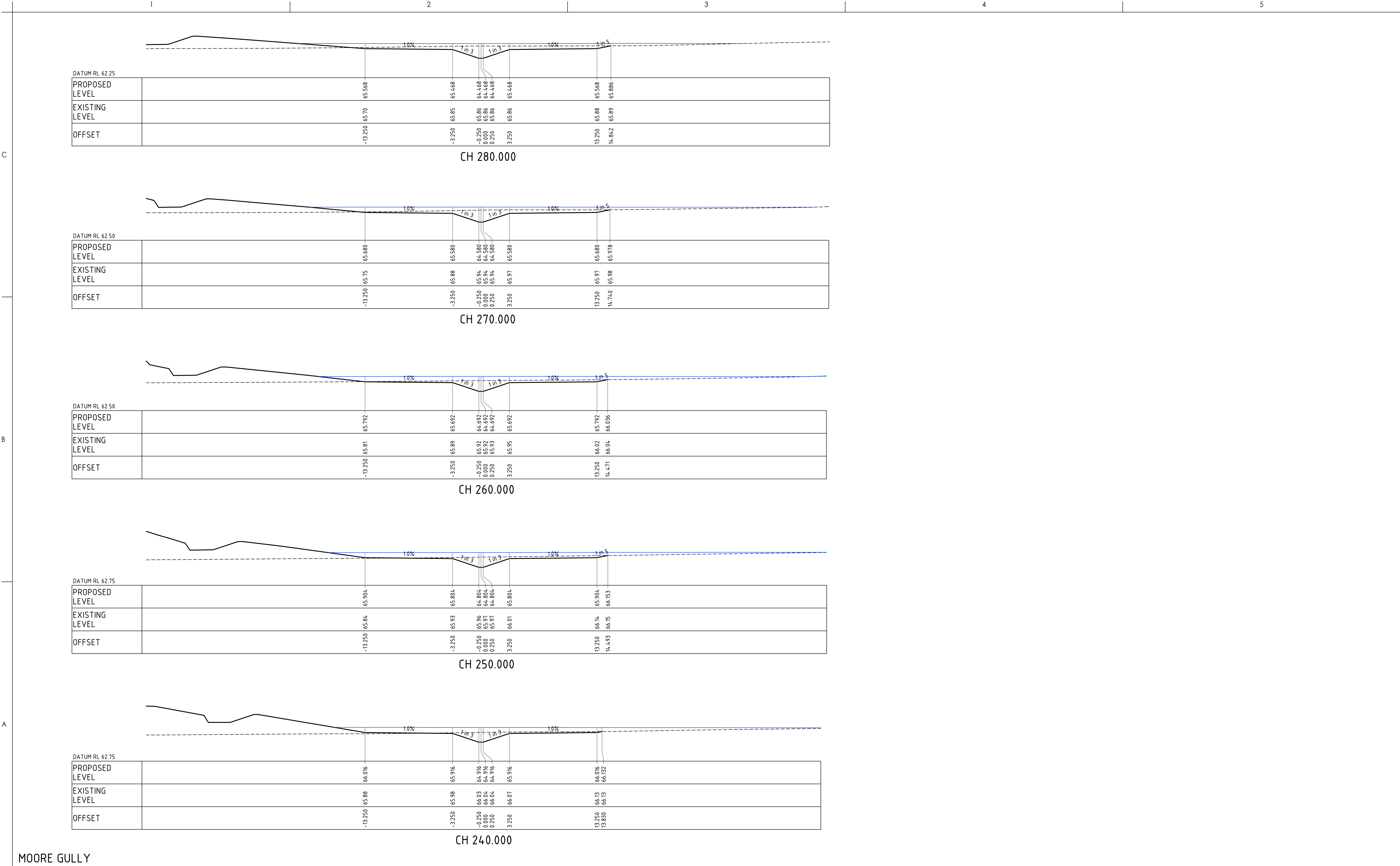


DATUM RL 63.25

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EXISTING LEVEL		66.59	66.58	66.56	66.54	66.52	66.52
OFFSET	-6.074	-3.000	0.000	3.000	6.074	13.250	13.516

CH 200.000

MOORE GULLY



MOORE GULLY

Notes

SCALE 1:200

4 ISSUED FOR REF

3 ISSUED FOR REF - 50% DESIGN

2 ISSUED FOR REF - 50% DESIGN

1 ISSUED FOR 50% DESIGN

YL

YL

YL

YL

PL

PL

RO

PL

2024.11.21

2024.02.02

2023.12.20

2023.09.29

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Client/Project

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STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

Title

MOORE GULLY CROSS SECTIONS SHEET 11

Project No.

304000968

Revision

4

Scale

1:200

A1

Drawing No.

304000968-100-C1411

PL

Authorised

2023.09.29

RPEQ #

BW

Dwn.

YL

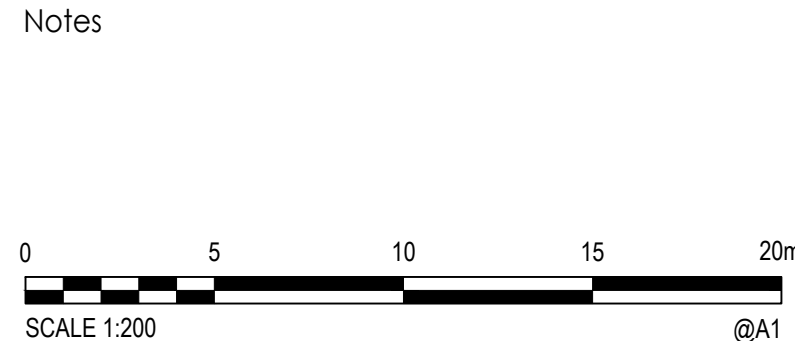
Dsgn.

RO

Chkd.

2023.09.29

YYYY.MM.DD



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STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL		2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

MOORE GULLY
CROSS SECTIONS
SHEET 12

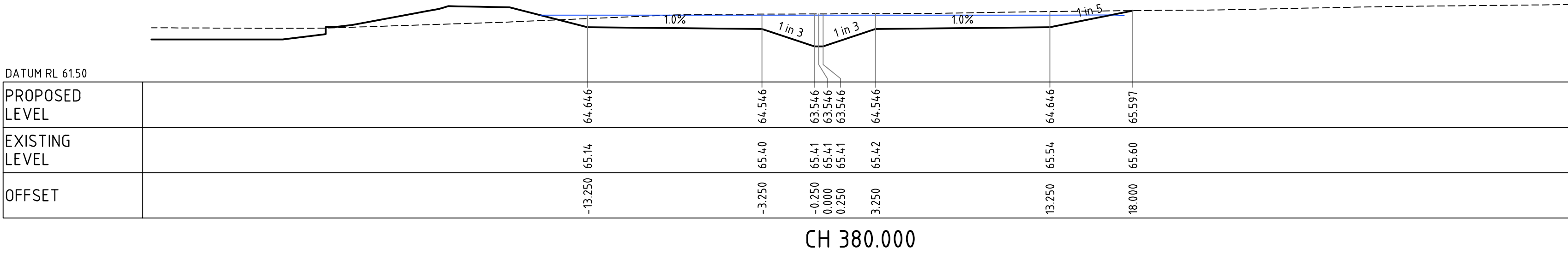
Project No.
304000968

Revision
4

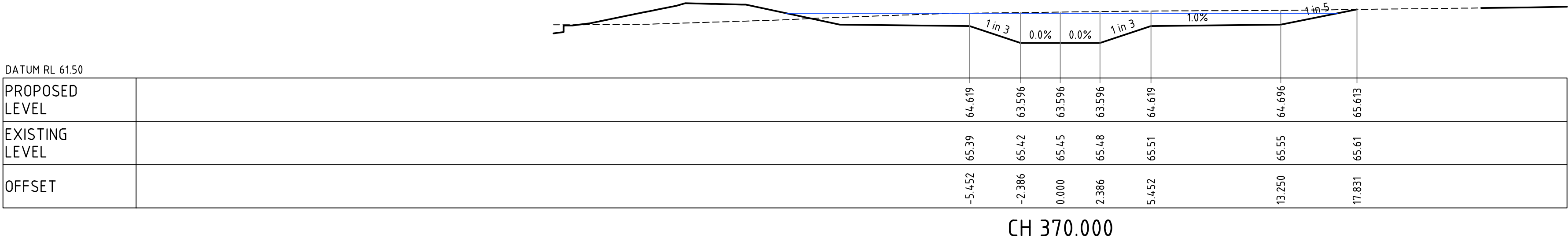
Scale
1:200 A1

Drawing No.
304000968-100-C1412

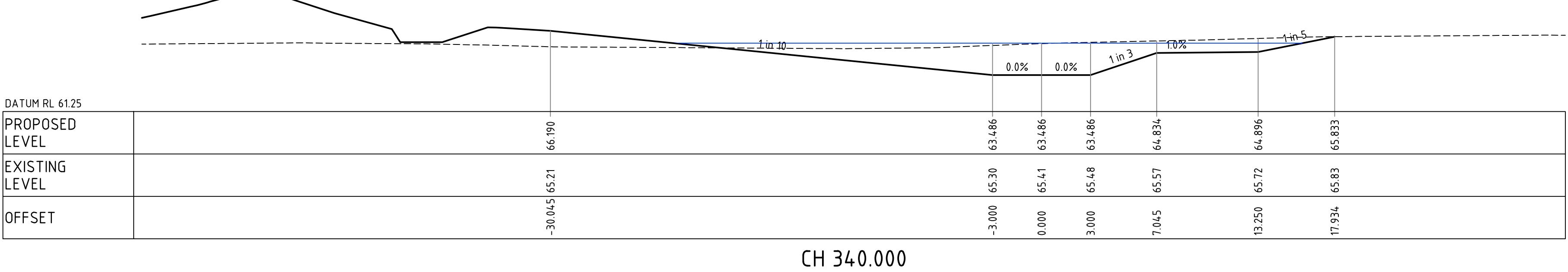
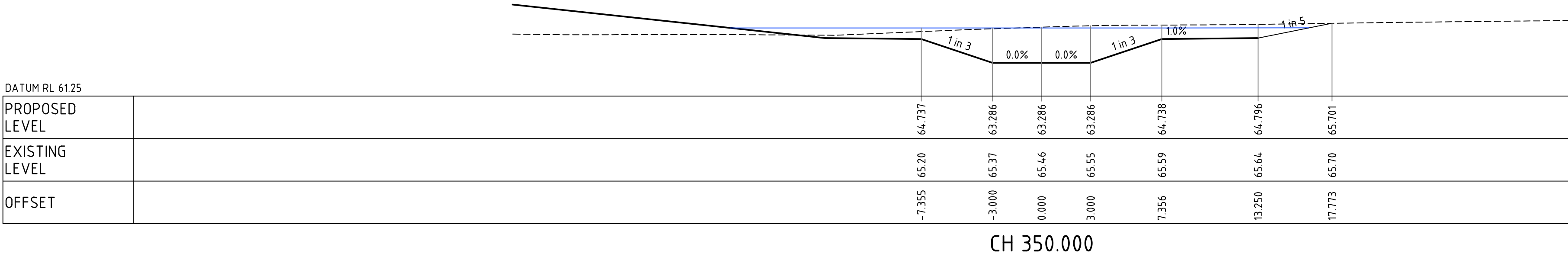
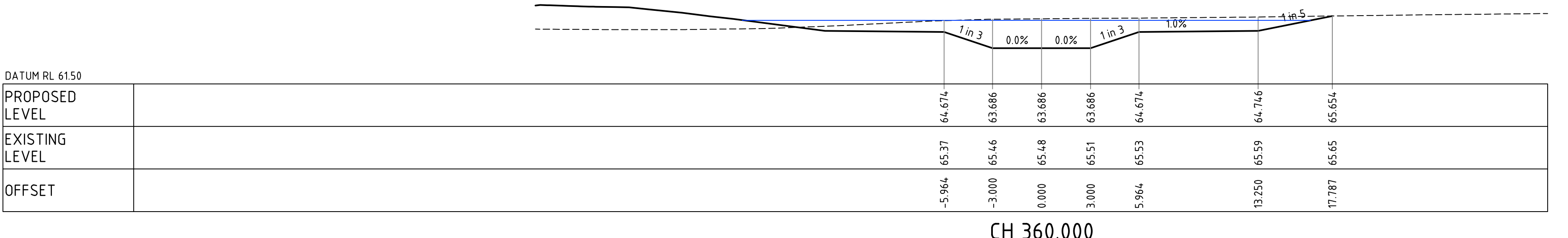
C



B



A



MOORE GULLY

Notes

0 5 10 15 20m

SCALE 1:200 @A1

4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.29

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STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL	2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

MOORE GULLY CROSS SECTIONS SHEET 13

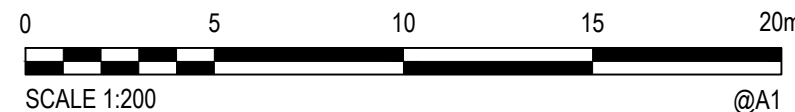
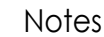
Project No. **304000968**

Revision **4**

Scale **1:200**

Drawing No. **304000968-100-C1413**

A1

[illegible]

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STORMWATER TRUNK INFRASTRUCTURE,
SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL		2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

MOORE GULLY
CROSS SECTIONS
SHEET 14

Project No.
304000968

Revision
4

Scale
1:200 A1

Drawing No.
304000968-100-C1414



CH 480.000



CH 470.000



CH 460.000



CH 450.000



CH 440.000

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Title

MOORE GULLY
CROSS SECTIONS
SHEET 15

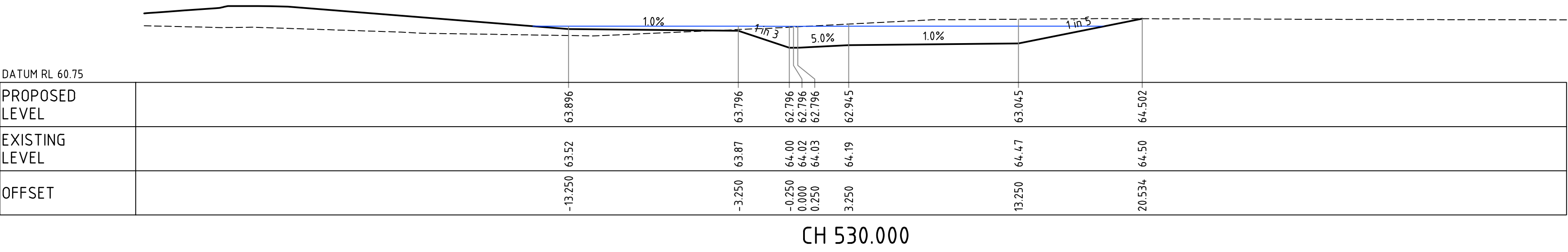
Project No.
304000968

Revision
4

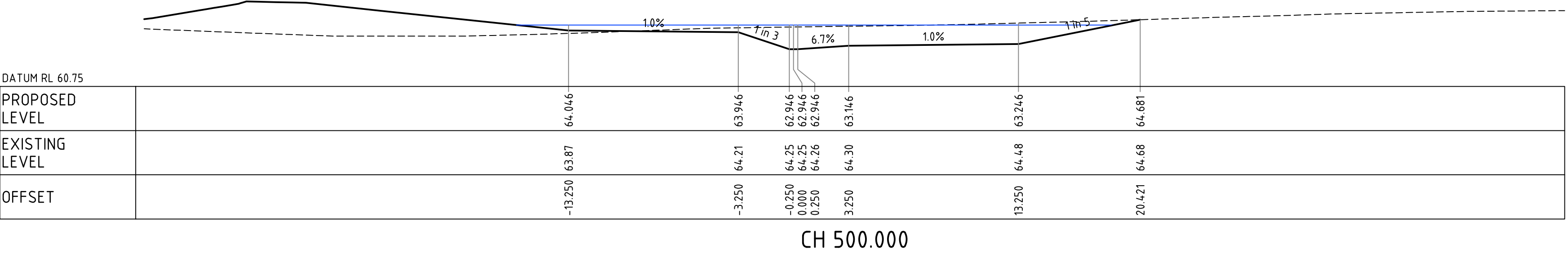
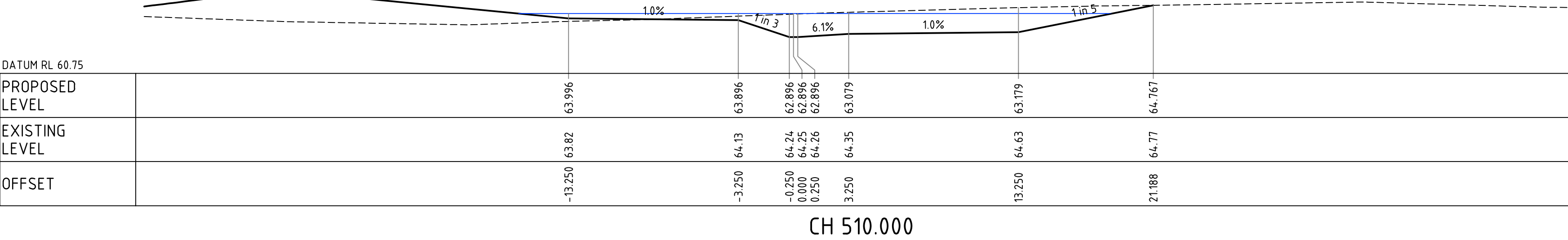
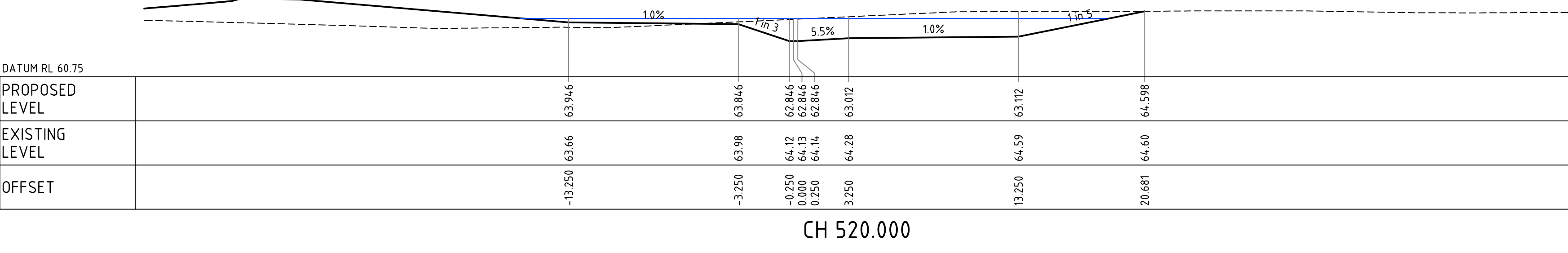
Scale
1:200 A1

Drawing No.
304000968-100-C1415

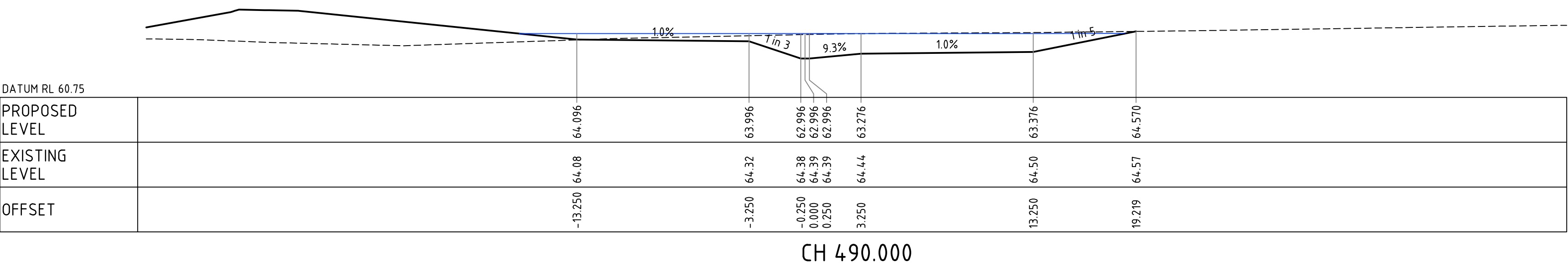
C



B



A



MOORE GULLY

Notes

0 5 10 15 20m

SCALE 1:200

@A1

4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.29

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Client/Project Logo

Client/Project

BRADFELD CITY

STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL	2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

MOORE GULLY CROSS SECTIONS SHEET 16

Project No. **304000968**

Revision **4**

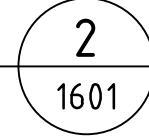

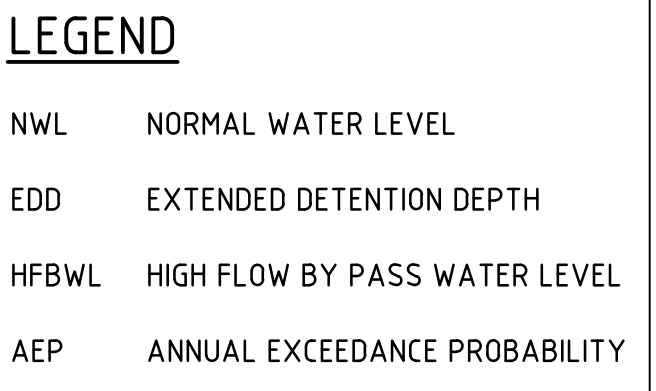
Scale 1:200

A1

Drawing No. **304000968-100-C1416**

ORIGINAL SHEET - ISO A1 COORD - MGA 2020 DATUM - AHD

P:\PNS2\2211\2024\24002-PA-16-CHONG-BRITANY\CAMD02\PROJECT\CH02\SHARED\PROJECT\304000968\100-MOORE GULLY\DRAWINGS



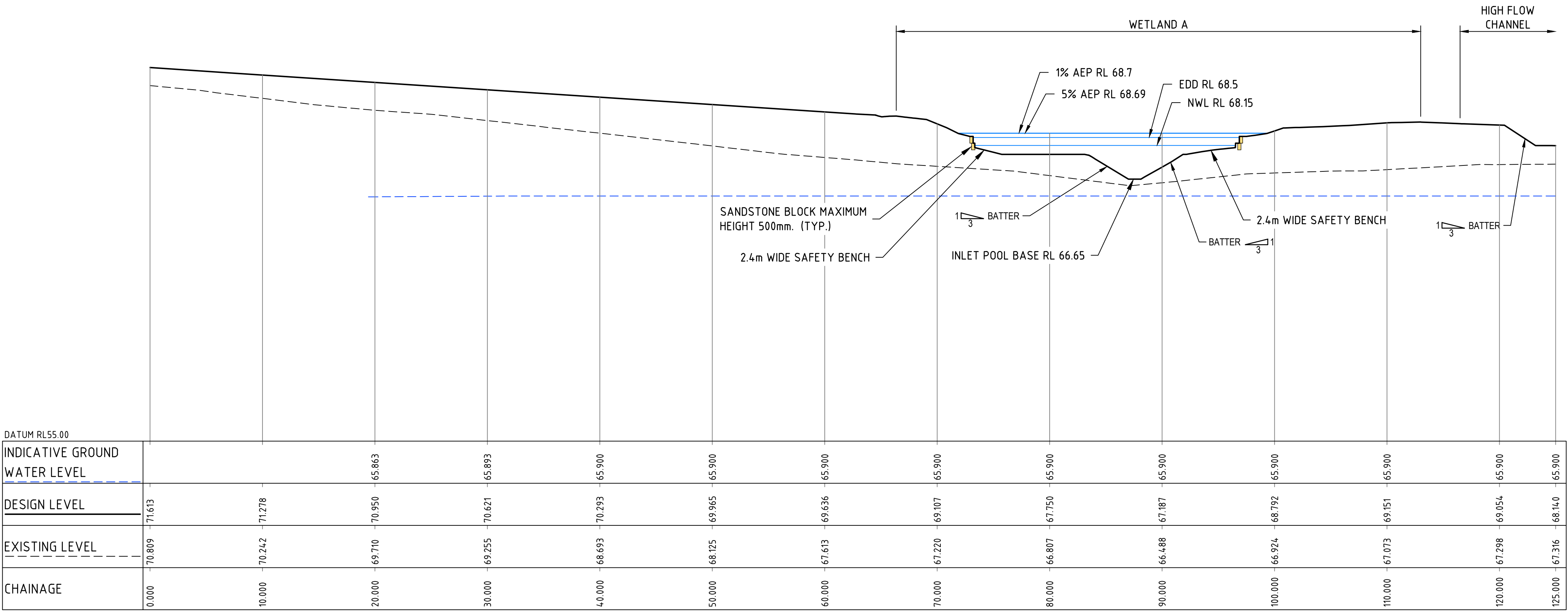
2
1601

Drawing No.
304000968-100-C1913

C

B

A



LEGEND

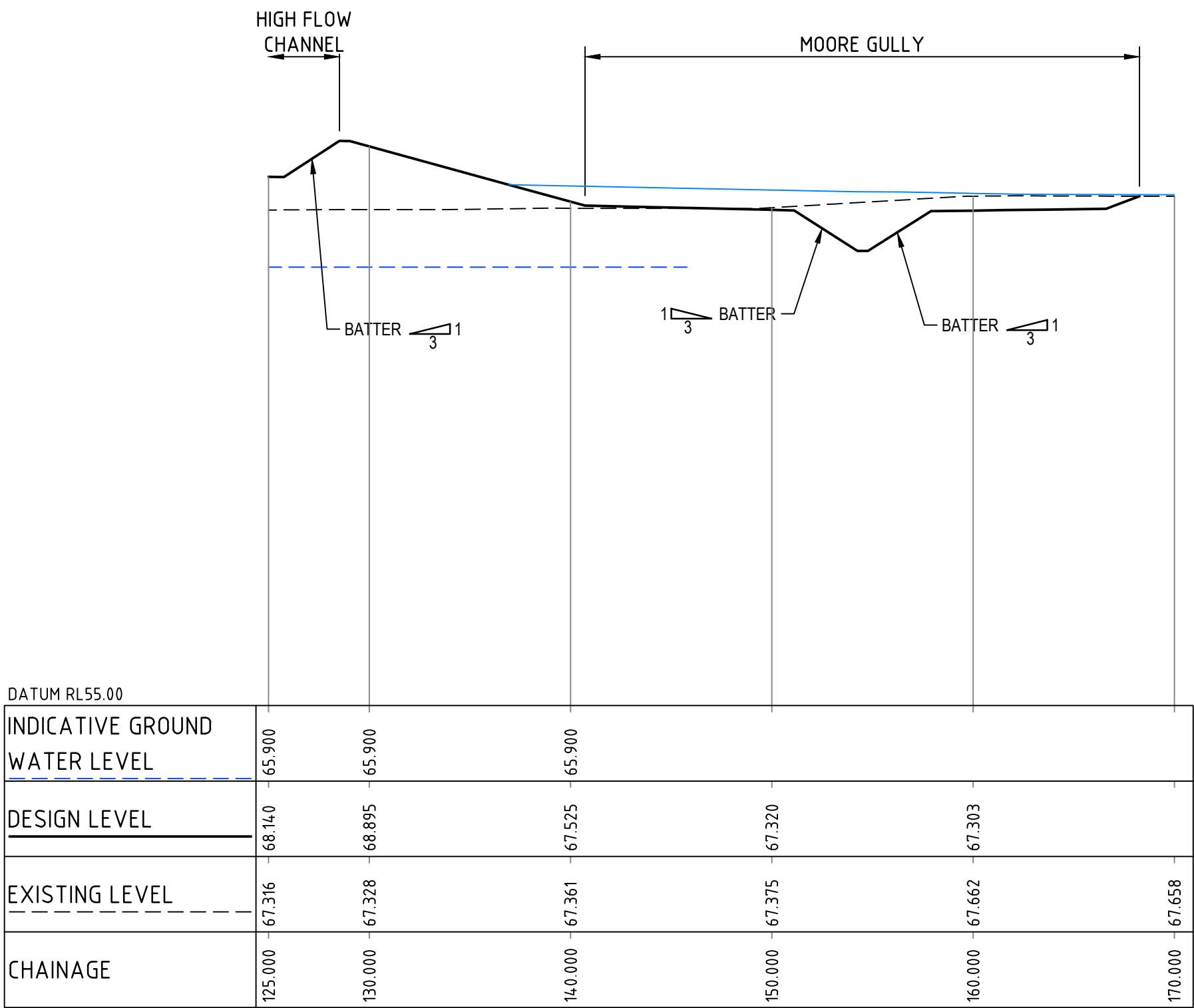
NWL	NORMAL WATER LEVEL
EDD	EXTENDED DETENTION DEPTH
HFBWL	HIGH FLOW BY PASS WATER LEVEL
AEP	ANNUAL EXCEEDANCE PROBABILITY

SECTION 3

SCALE H 1:250 V 1:125

3

1601



SECTION 3

SCALE H 1:250 V 1:125

3

1601

Notes

0 2.5 5 7.5 10 12.5m

SCALE 1:125 @A1

0 5 10 15 20 25m

SCALE 1:250 @A1

4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.29
Issued/Revision		By	Appd	YYYY.MM.DD

Issue Status

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Notes

File Name:

304000968-100-C1912-C1930

Client/Project Logo

Client/Project

BRADFIELd CITY

STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL 2023.09.29 2023.09.29 2023.09.29 2023.09.29 2023.09.29 2023.09.29

Authorised RPEQ # YYYY.MM.DD Dwn. Dsgn. Chkd. YYYY.MM.DD

Title

SITE SECTIONS SHEET 3

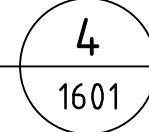

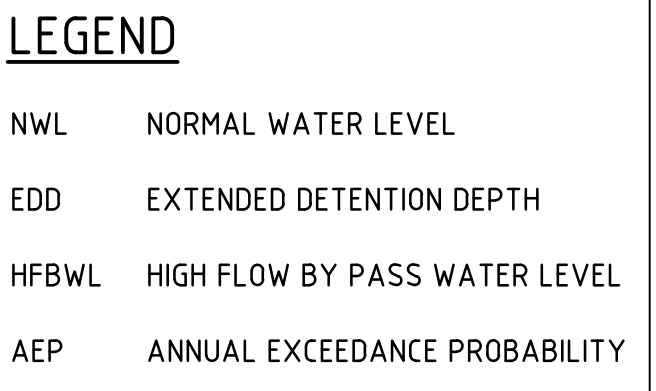
Project No. 304000968

Revision 4

Scale AS SHOWN A1

Drawing No. 304000968-100-C1914

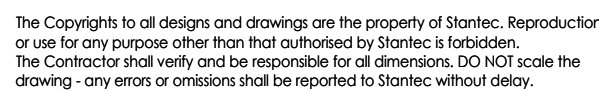
ORIGINAL SHEET - ISO A1 COORD - MGA 2020 DATUM - AHJD



4	ISSUED FOR REF	YL	PL	2024.11.21	
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02	
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20	
1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.29	
Issued/Revision		By	Apsd	YYYY.MM.DD	

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File Name:
304000968-100-C1912-C1930



PL		2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

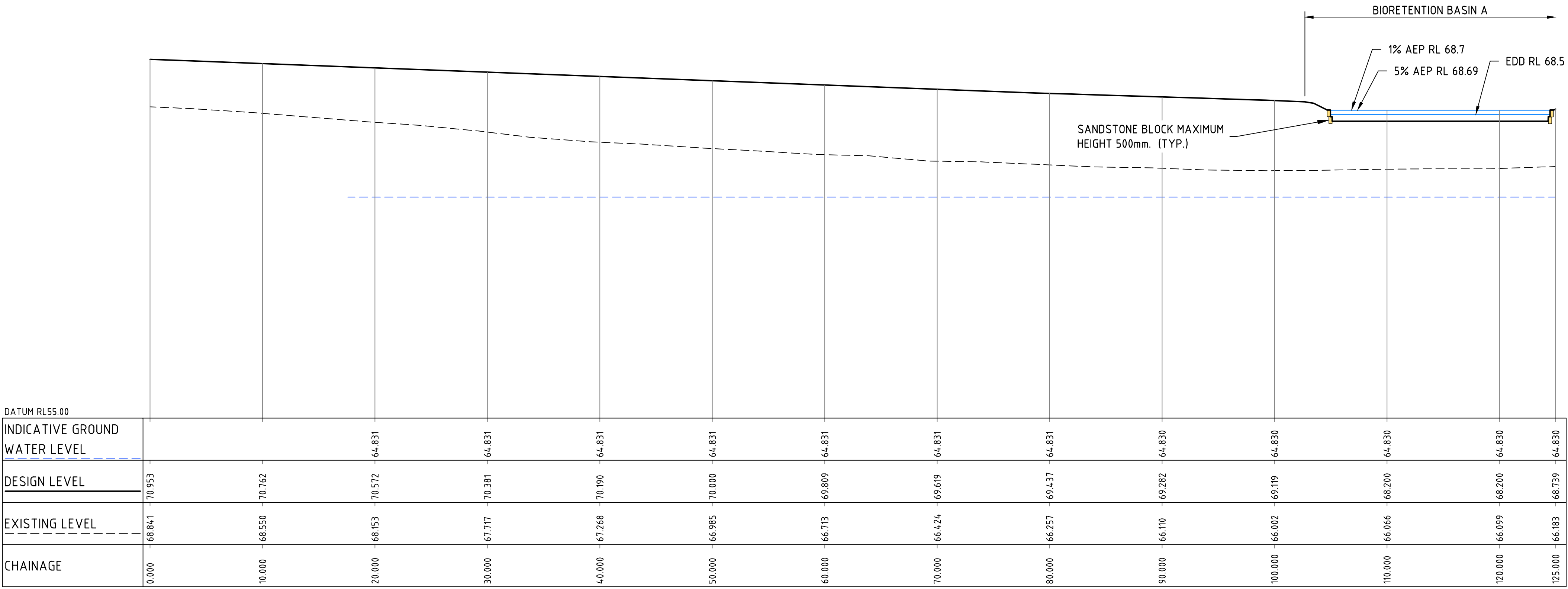
Scale
AS SHOWN A1

Drawing No.
304000968-100-C1915

C

B

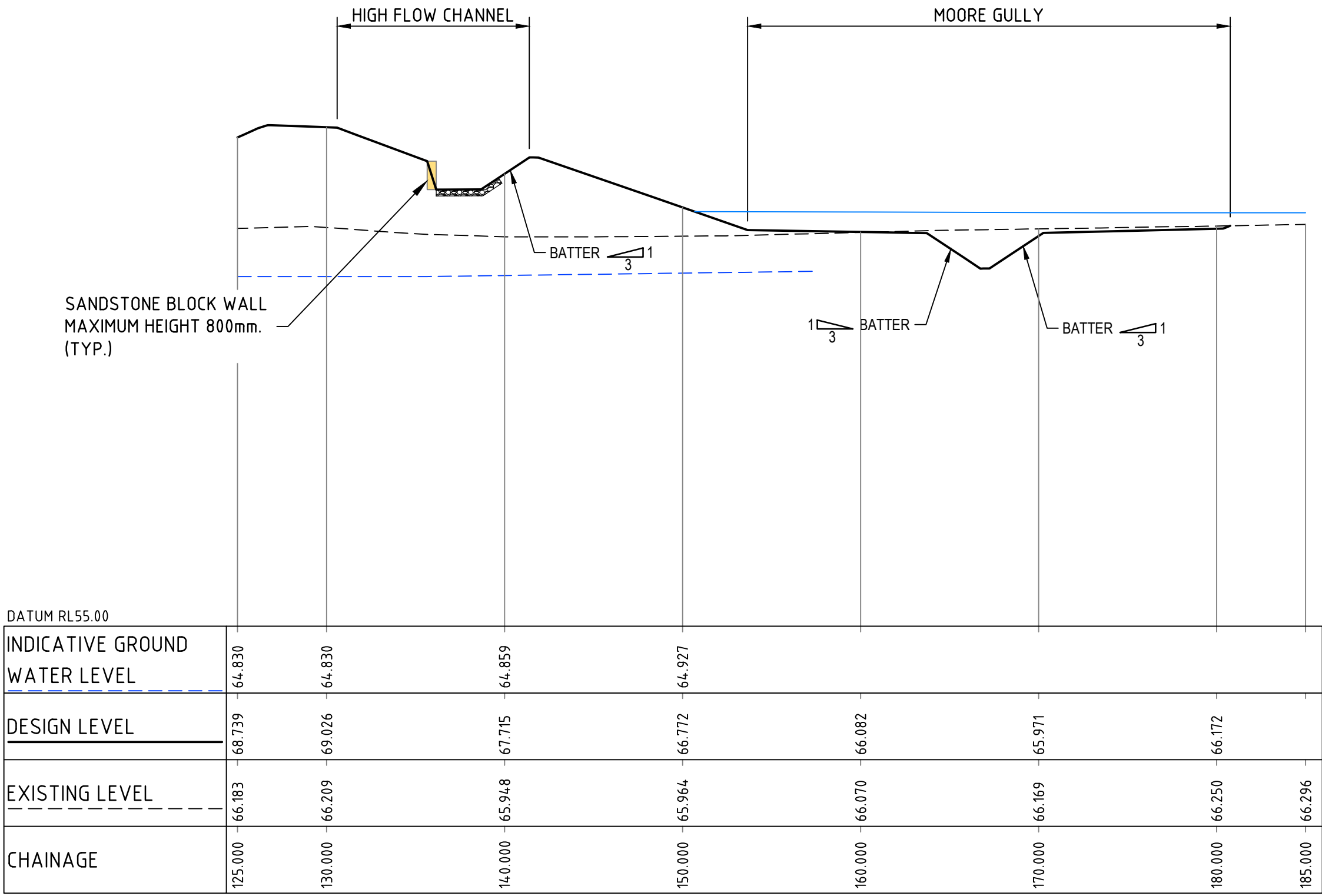
A



LEGEND	
NWL	NORMAL WATER LEVEL
EDD	EXTENDED DETENTION DEPTH
HFBWL	HIGH FLOW BY PASS WATER LEVEL
AEP	ANNUAL EXCEEDANCE PROBABILITY

SECTION 5
SCALE H 1:250 V 1:125

5
1601



SECTION 5
SCALE H 1:250 V 1:125

5
1601

Notes

0 2.5 5 7.5 10 12.5m

SCALE 1:125 @A1

0 5 10 15 20 25m

SCALE 1:250 @A1

4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.29
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Notes

File Name:

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Client/Project

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STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL 2023.09.29 2023.09.29 2023.09.29

Authorised RPEQ # YYYY.MM.DD Dwn. Dsgn. Chkd. YYYY.MM.DD

Client/Project

BRADFIELDCITY

STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL 2023.09.29 2023.09.29 2023.09.29

Authorised RPEQ # YYYY.MM.DD Dwn. Dsgn. Chkd. YYYY.MM.DD

Title

SITE SECTIONS SHEET 5

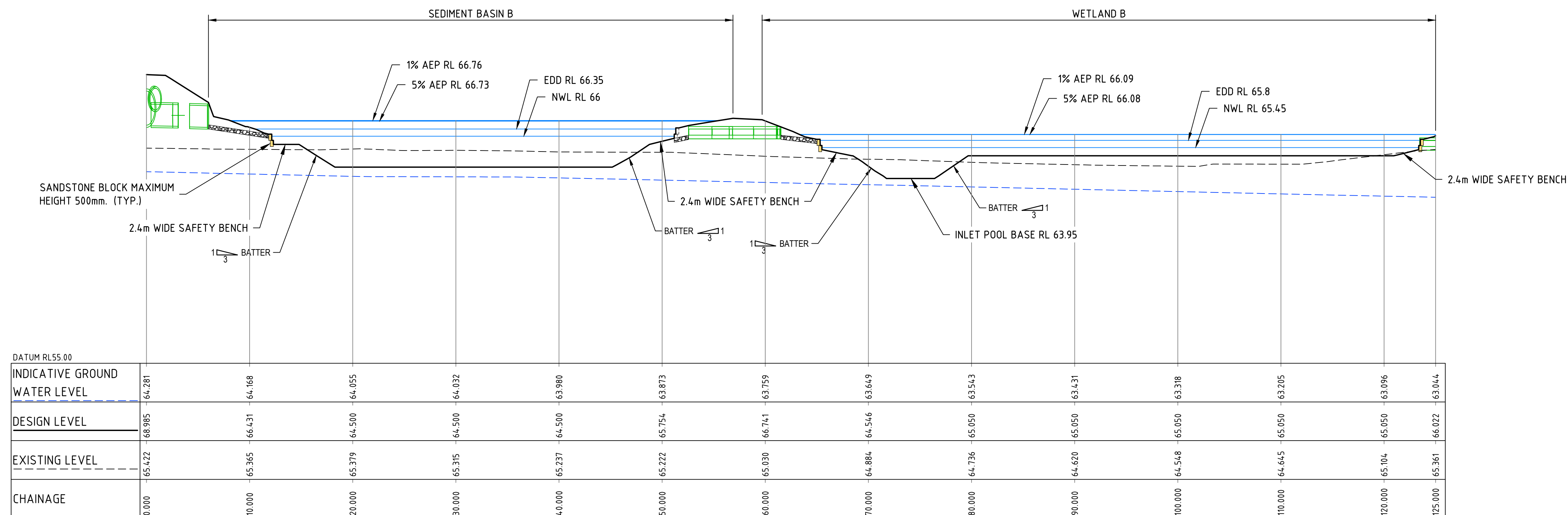
Project No. 304000968

Revision 4

Scale AS SHOWN A1

Drawing No. 304000968-100-C1916

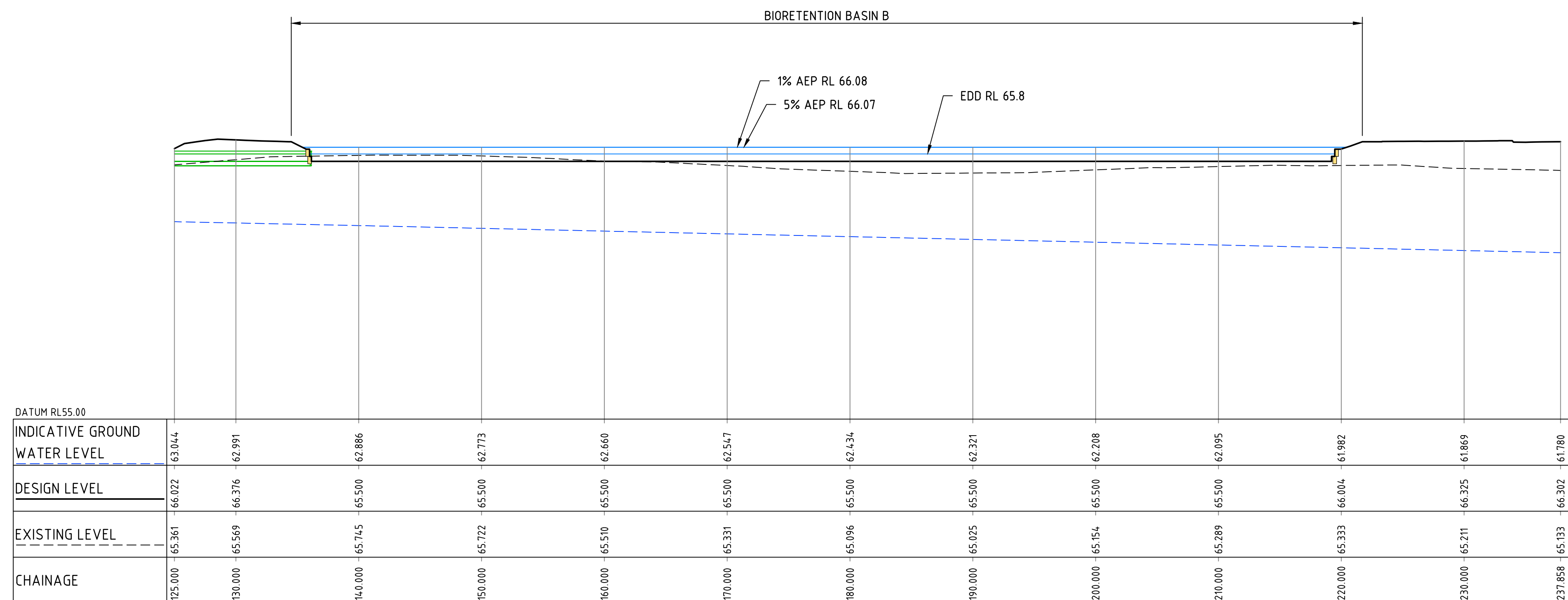
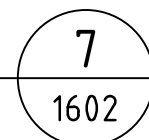
ORIGINAL SHEET - ISO A1 COORD - MGA 2020 DATUM - AHJD



DATUM RL55.00	
INDICATIVE GROUND WATER LEVEL	
DESIGN LEVEL	
EXISTING LEVEL	
CHAINAGE	
0.000	-64.281
10.000	-64.168
20.000	-64.055
30.000	-64.032
40.000	-63.980
50.000	-63.873
60.000	-63.759
70.000	-63.649
80.000	-63.543
90.000	-63.431
100.000	-63.318
110.000	-63.205
120.000	-63.096
125.000	-63.044

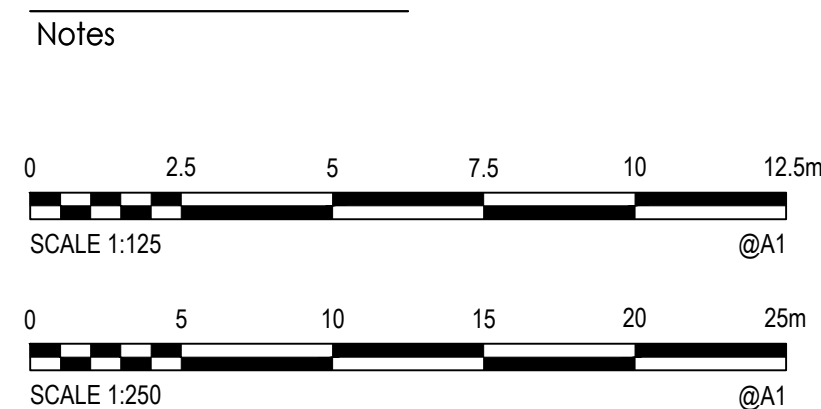
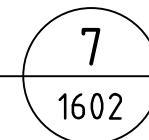
SECTION 7

SCALE H 1:250 V 1:125



DATUM RL55.00	
INDICATIVE GROUND WATER LEVEL	
DESIGN LEVEL	
EXISTING LEVEL	
CHAINAGE	
1025.000	65.361
1030.000	65.569
1040.000	65.745
1050.000	65.722
1060.000	65.510
1070.000	65.331
1080.000	65.096
1090.000	65.025
1200.000	65.154
1210.000	65.289
1220.000	65.333
1230.000	65.211
1237.858	65.133

SECTION 7
SCALE H 1:250 V 1:125

[illegible]

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Notes

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Standard & Poor's PwC LAB A&N 051 0074 820 322
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Parramatta, NSW 2150
Tel: 02 9496 7700
Web: www.standard.com.au

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Client/Project Logo



Client/Project

BRADFIELD CITY

STORMWATER TRUNK INFRASTRUCTURE,
SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL		2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

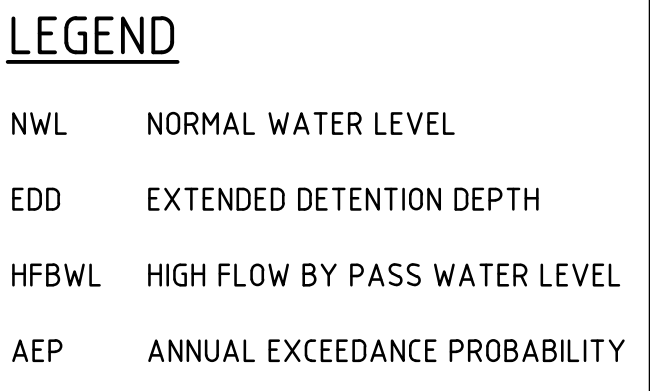
SITE SECTIONS
SHEET 7

Project No.
304000968

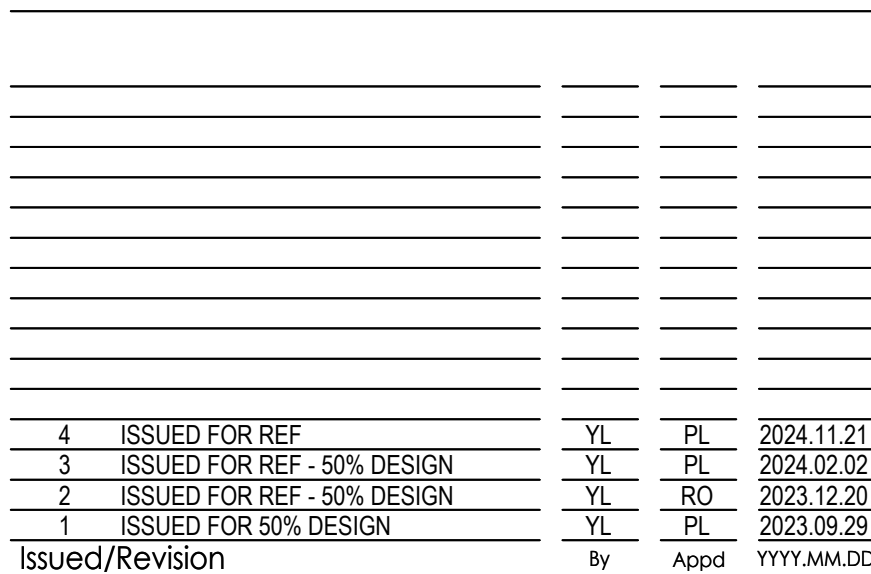

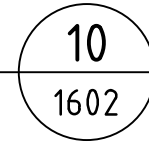
Revision
4

Scale
AS SHOWN A1

Drawing No.
304000968-100-C1918



10
1602



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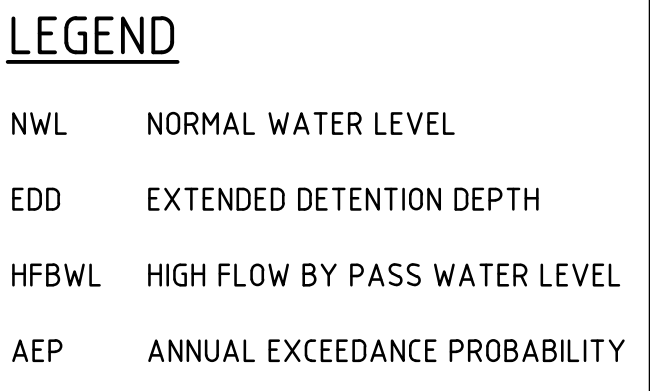
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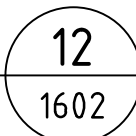
Western Parkland City
Authority

PL		2024.11.21	JS	YL	RO	2024.11.21
Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Drawing No.
304000968-100-C1921



$$\frac{11}{1602}$$



Notes

0 2.5 5 7.5 10 12.5m
SCALE 1:125 @A1

0 5 10 15 20 25m
SCALE 1:250 @A1

4	ISSUED FOR REF	YL	PL 2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL 2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO 2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL 2023.09.29
Issued/Revision		By	Appd YYYY.MM.DD

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 Parramatta, NSW 2150
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 Web: www.stanites.com.au

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Western Parkland City
Authority

BRADFIELD CITY

STORMWATER TRUNK INFRASTRUCTURE, SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL		2024.11.21	JS	YL	RO	2024.11.21
Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

SITE SECTIONS
SHEET 11

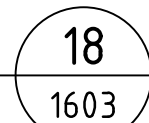
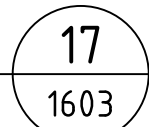
Project No.
304000968

Revision
4

Scale
AS SHOWN A1

Drawing No.
304000968-100-C1922

NWL	NORMAL WATER LEVEL
EDD	EXTENDED DETENTION DEPTH
HFBWL	HIGH FLOW BY PASS WATER LEVEL
AEP	ANNUAL EXCEEDANCE PROBABILITY



4	ISSUED FOR REF	YL	PL 2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL 2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO 2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL 2023.09.29
Issued/Revision		By	Appd YYYY.MM.DD

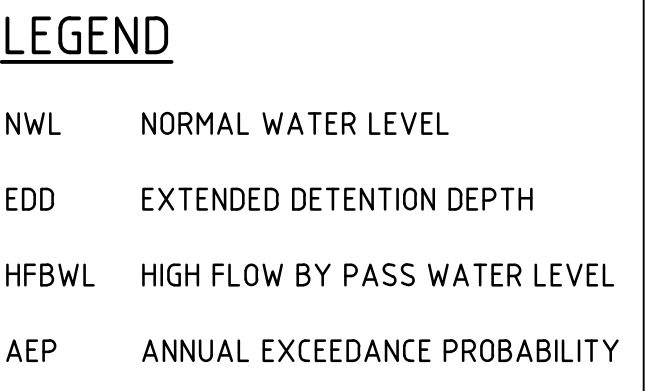
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File Name:
304000968-100-C1912-C1930

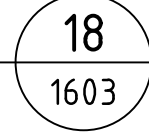


PL	2024.11.21	JS	YL	RO	2024.11.21
Authorised	RPEQ # YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

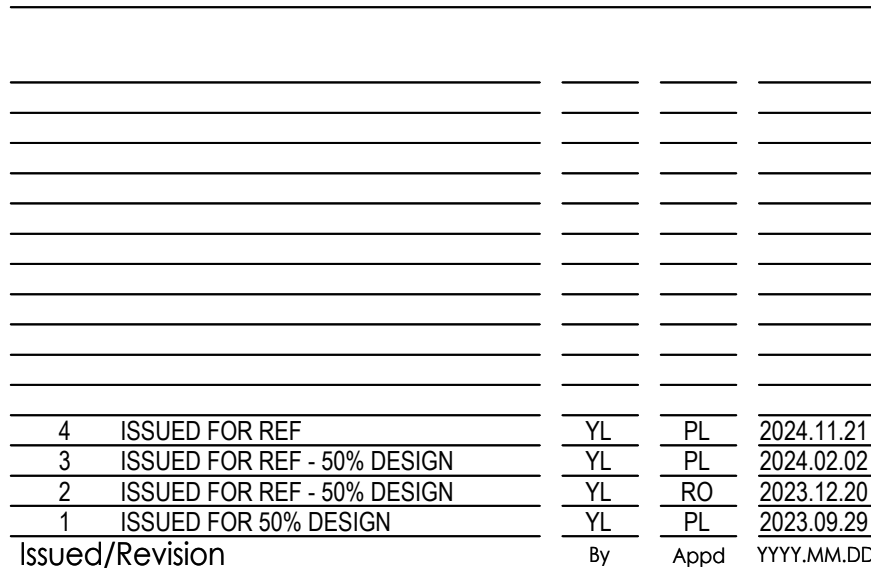
Project No. 304000968	Scale AS SHOWN A1
Revision 4	Drawing No. 304000968-100-C1926



18
1603

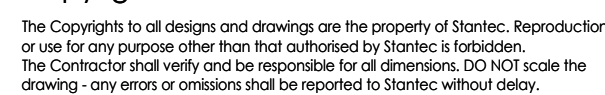


18
1603



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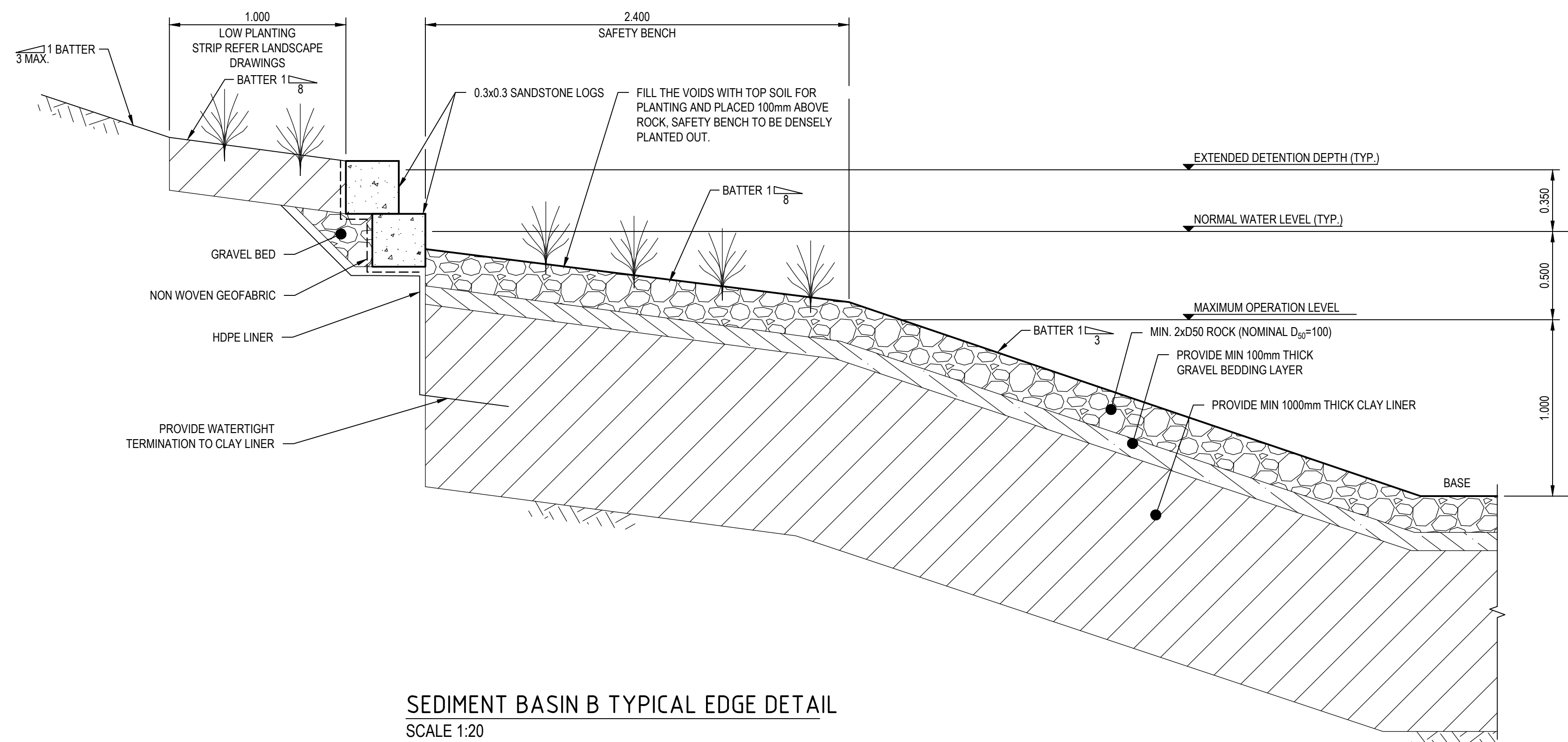
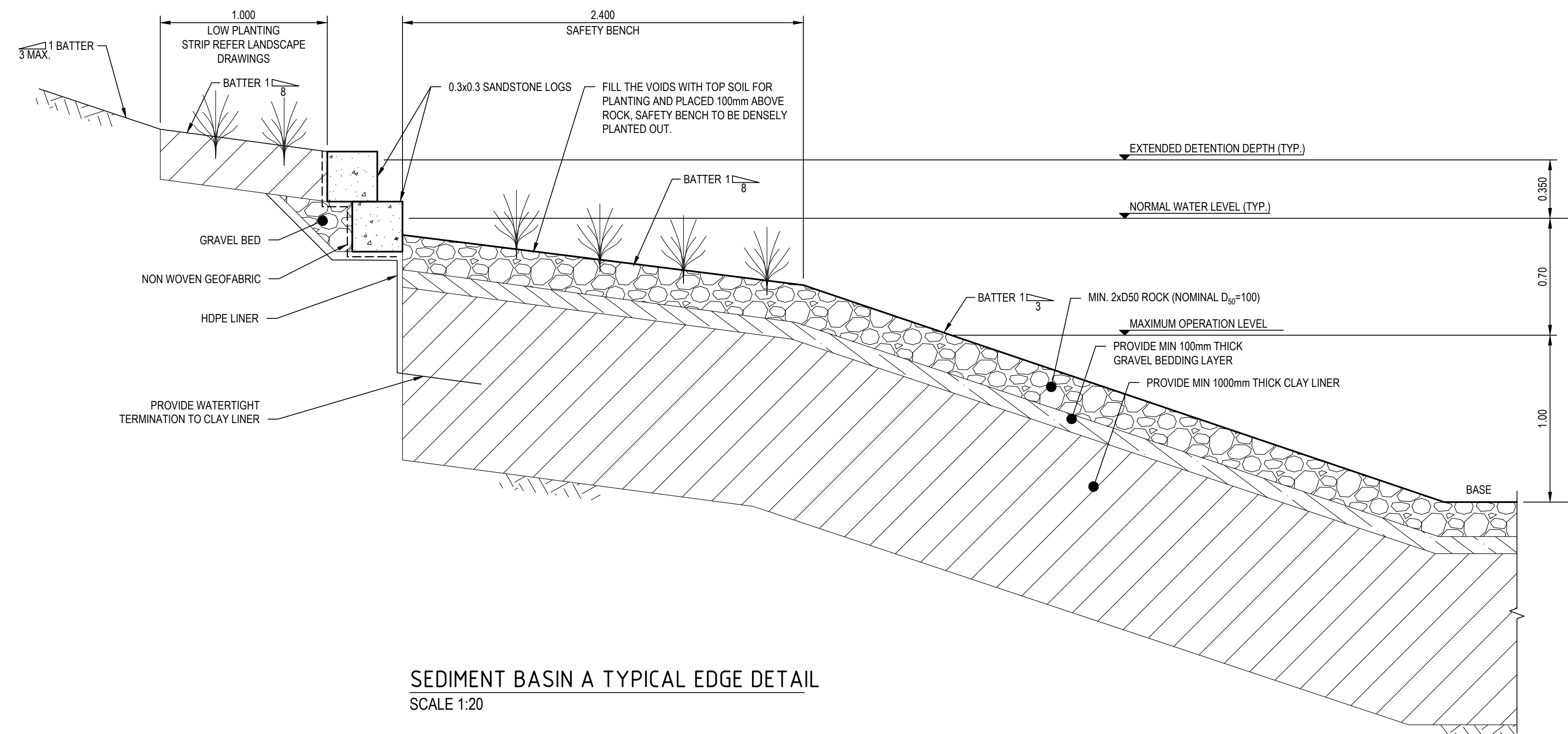
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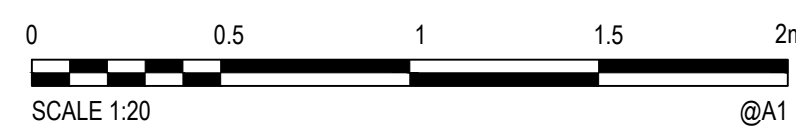
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Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Scale
AS SHOWN A1

Drawing No.
304000968-100-C1927



Notes



4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.25
Issued/Revision		By	Appd	YYYY.MM.DD

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304000968-100-C2201-C2208



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Client/Project Logo



Client/Project

BRADFIELD CITY

STORMWATER TRUNK INFRASTRUCTURE,
SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL		2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

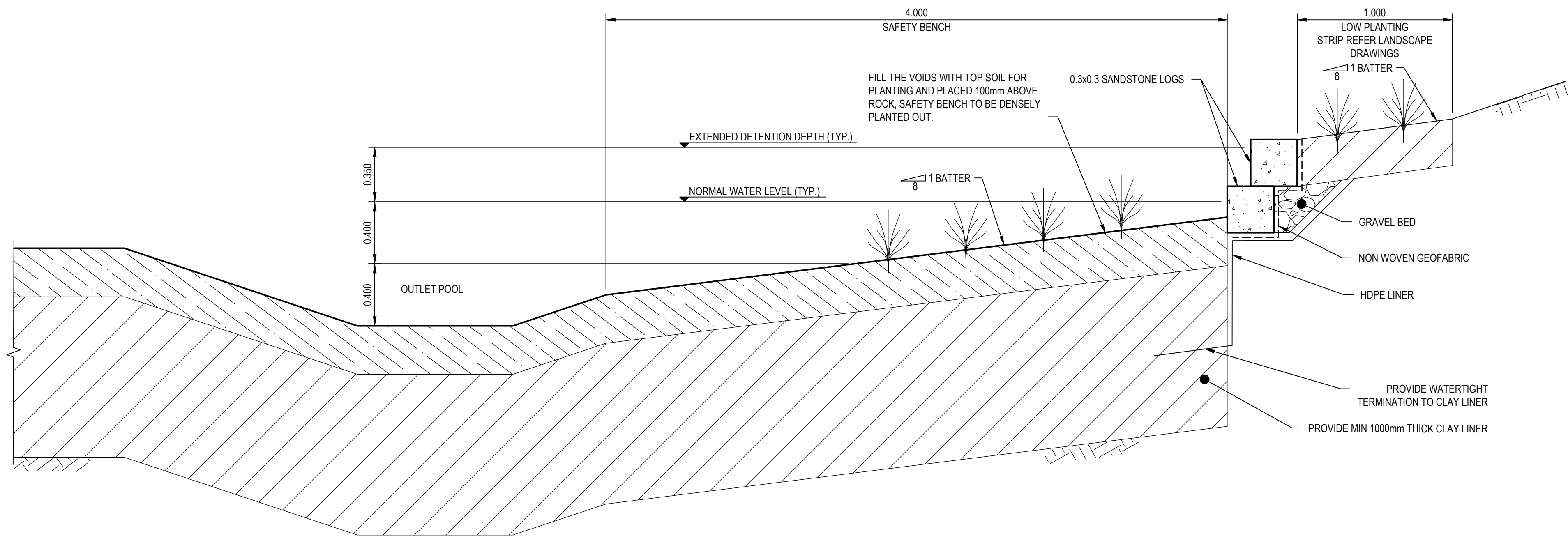
TYPICAL DETAILS
SHEET 1

Project No.
304000968

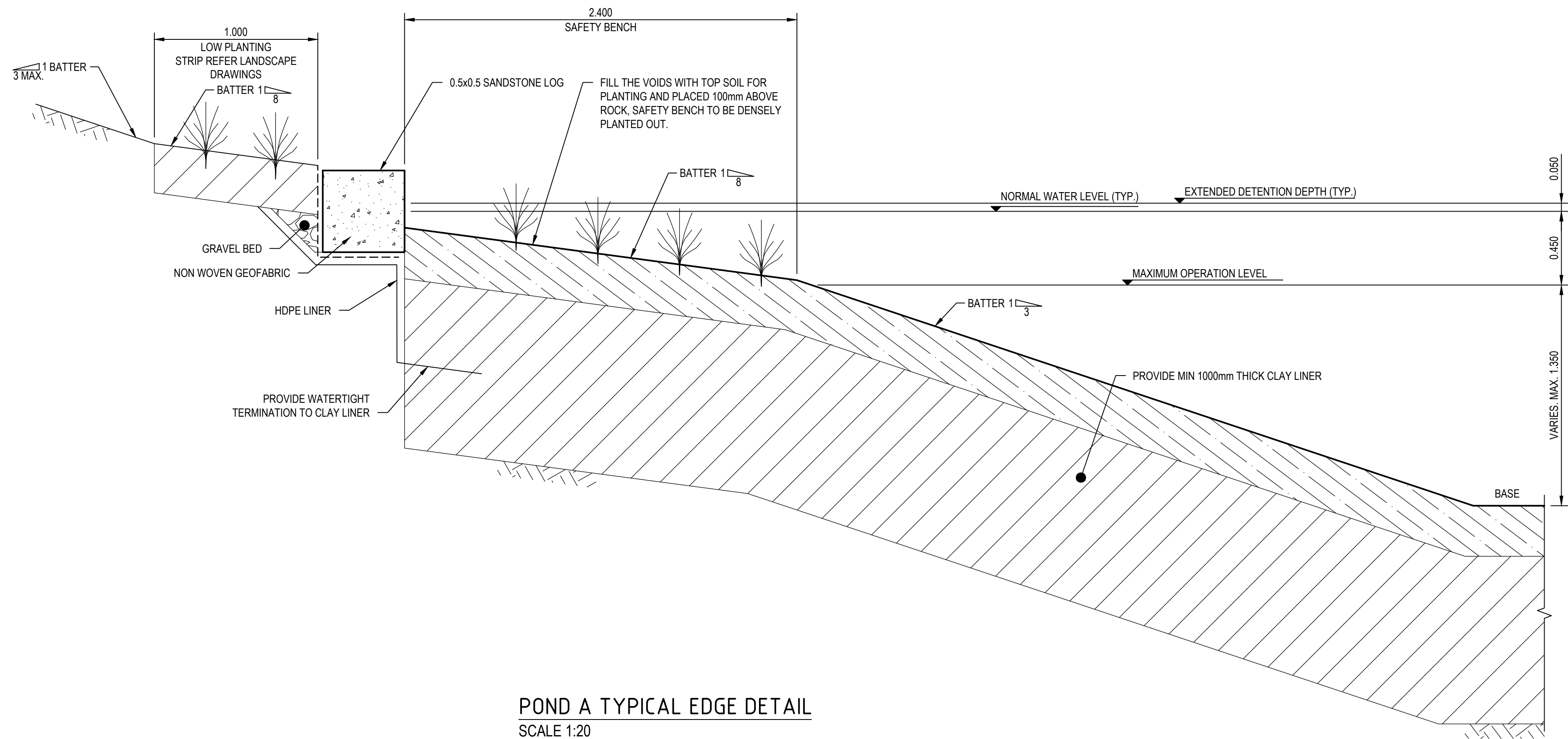
Revision
4

Scale
1:20 A1

Drawing No.
304000968-100-C2201



WETLAND TYPICAL INLET POOL DETAIL
SCALE 1:20

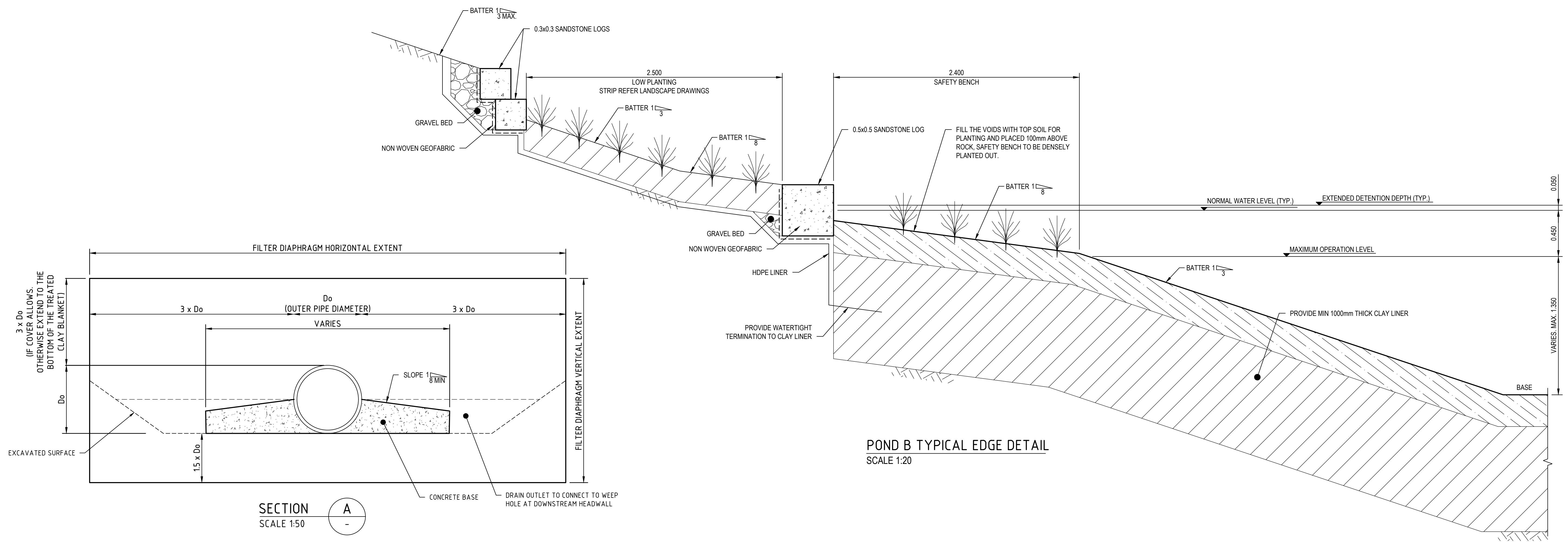


POND A TYPICAL EDGE DETAIL
SCALE 1:20

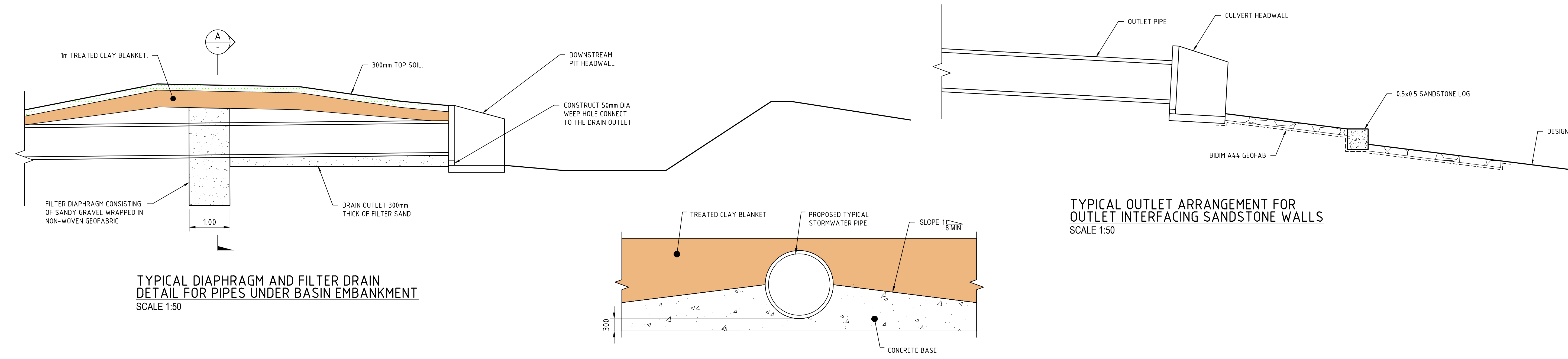
Notes

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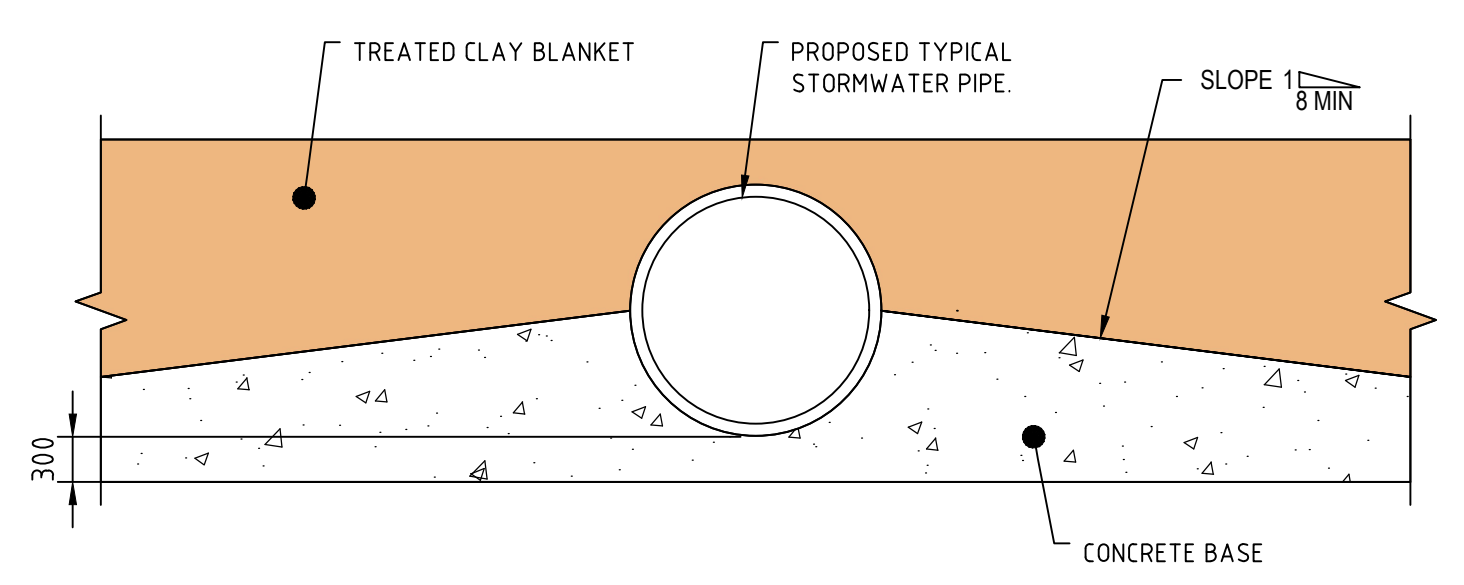
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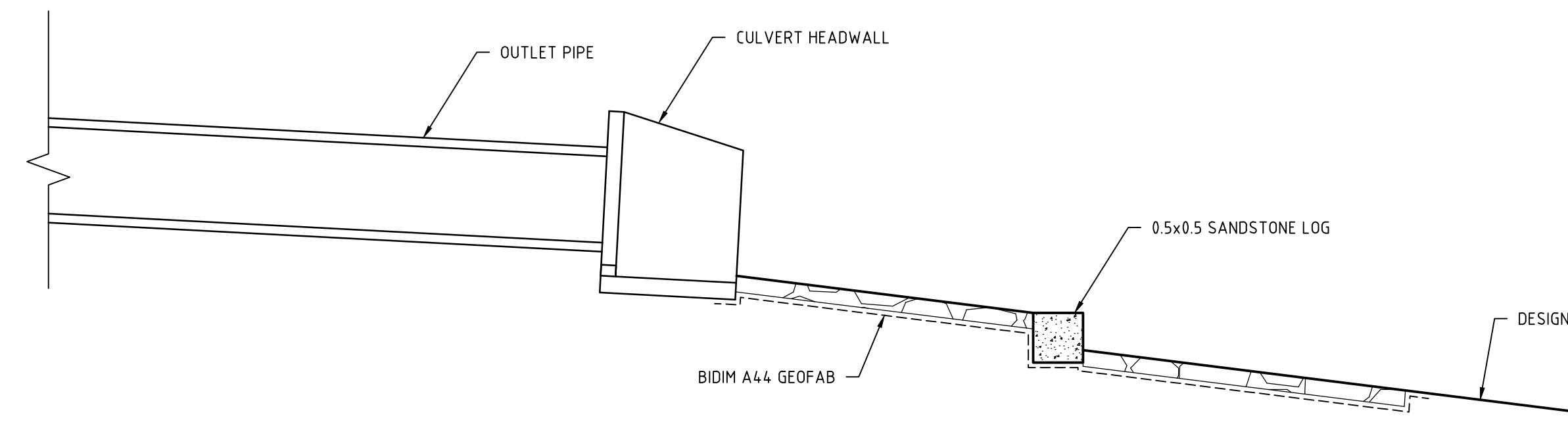
SECTION A
SCALE 1:50



TYPICAL DIAPHRAGM AND FILTER DRAIN
DETAIL FOR PIPES UNDER BASIN EMBANKMENT
SCALE 1:50



CONCRETE BASE TYPICAL DETAIL FOR
PIPE SEGMENTS THROUGH EMBANKMENTS
SCALE 1:50



TYPICAL OUTLET ARRANGEMENT FOR
OUTLET INTERFACING SANDSTONE WALLS
SCALE 1:50

Notes

0 0.5 1 1.5 2m
SCALE 1:20 @A1

0 1 2 3 4 5m
SCALE 1:50 @A1

4	ISSUED FOR REF	YL	PL	2024.11.21
3	ISSUED FOR REF - 50% DESIGN	YL	PL	2024.02.02
2	ISSUED FOR REF - 50% DESIGN	YL	RO	2023.12.20
1	ISSUED FOR 50% DESIGN	YL	PL	2023.09.29

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Stantec

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NSW Western Parkland City Authority

Client/Project

BRADFELD CITY

STORMWATER TRUNK INFRASTRUCTURE,
SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

PL	2023.09.29	BW	YL	RO	2023.09.29
Authorised	RPEQ #	YYYY.MM.DD	Dwn.	Dsgn.	Chkd.

Title

**TYPICAL DETAILS
SHEET 4**

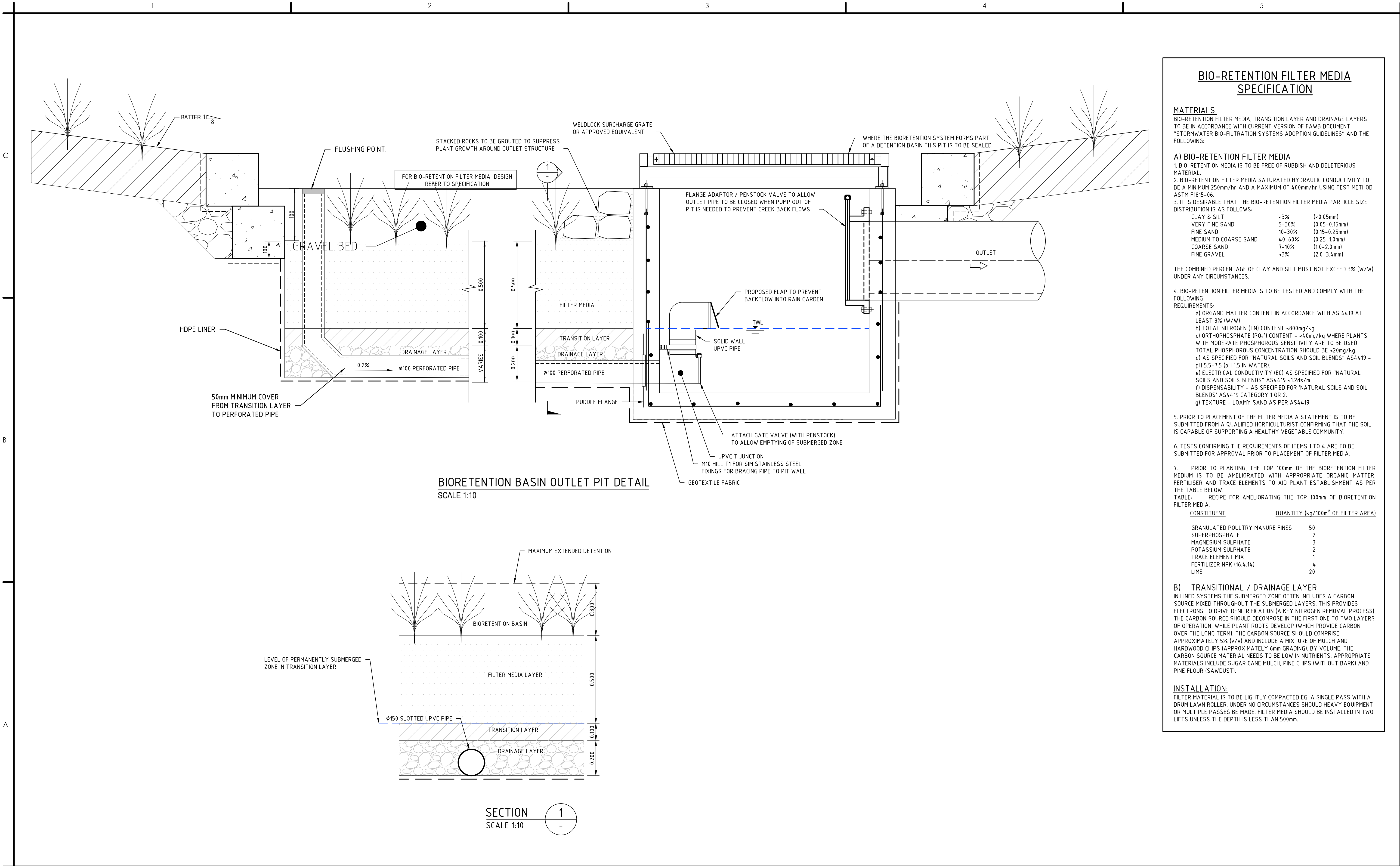
Project No.
304000968

Revision
4

Scale
AS SHOWN A1

Drawing No.
304000968-100-C2204

PONDS 22/11/2024 2:43:14 PM By CIBD/DAQ BRITAIN
A002249497 CIBD/DAQ PROJECT 304000968 100 CIBD/DAQ CIBD/DAQ



BIO-RETENTION FILTER MEDIA SPECIFICATION

MATERIALS:
BIO-RETENTION FILTER MEDIA, TRANSITION LAYER AND DRAINAGE LAYERS TO BE IN ACCORDANCE WITH CURRENT VERSION OF FAWB DOCUMENT "STORMWATER BIO-FILTRATION SYSTEMS ADOPTION GUIDELINES" AND THE FOLLOWING:

A) BIO-RETENTION FILTER MEDIA

- BIO-RETENTION FILTER MEDIA IS TO BE FREE OF RUBBISH AND DELETERIOUS MATERIAL.
 - BIO-RETENTION FILTER MEDIA SATURATED HYDRAULIC CONDUCTIVITY TO BE A MINIMUM 250mm/hr AND A MAXIMUM OF 400mm/hr USING TEST METHOD ASTM F1815-06.
 - IT IS DESIRABLE THAT THE BIO-RETENTION FILTER MEDIA PARTICLE SIZE DISTRIBUTION IS AS FOLLOWS:
- | | | |
|-----------------------|--------|---------------|
| CLAY & SILT | <3% | (<0.05mm) |
| VERY FINE SAND | 5-30% | (0.05-0.15mm) |
| FINE SAND | 10-30% | (0.15-0.25mm) |
| MEDIUM TO COARSE SAND | 40-60% | (0.25-1.0mm) |
| COARSE SAND | 7-10% | (1.0-2.0mm) |
| FINE GRAVEL | <3% | (2.0-3.4mm) |

THE COMBINED PERCENTAGE OF CLAY AND SILT MUST NOT EXCEED 3% (W/W) UNDER ANY CIRCUMSTANCES.

4. BIO-RETENTION FILTER MEDIA IS TO BE TESTED AND COMPLY WITH THE FOLLOWING REQUIREMENTS:

- ORGANIC MATTER CONTENT IN ACCORDANCE WITH AS 4419 AT LEAST 3% (W/W)
- TOTAL NITROGEN (TN) CONTENT <800mg/kg
- ORTHOPHOSPHATE (PO₄) CONTENT <40mg/kg WHERE PLANTS WITH MODERATE PHOSPHOROUS SENSITIVITY ARE TO BE USED, TOTAL PHOSPHOROUS CONCENTRATION SHOULD BE <20mg/kg.
- AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 - pH 5.5-7.5 (pH 15 IN WATER).
- ELECTRICAL CONDUCTIVITY (EC) AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 <12ds/m
- DISPENSABILITY - AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 CATEGORY 1 OR 2.
- TEXTURE - LOAMY SAND AS PER AS4419

5. PRIOR TO PLACEMENT OF THE FILTER MEDIA A STATEMENT IS TO BE SUBMITTED FROM A QUALIFIED HORTICULTURIST CONFIRMING THAT THE SOIL IS CAPABLE OF SUPPORTING A HEALTHY VEGETABLE COMMUNITY.

6. TESTS CONFIRMING THE REQUIREMENTS OF ITEMS 1 TO 4 ARE TO BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF FILTER MEDIA.

7. PRIOR TO PLANTING, THE TOP 100mm OF THE BIORETENTION FILTER MEDIUM IS TO BE AMELIORATED WITH APPROPRIATE ORGANIC MATTER, FERTILISER AND TRACE ELEMENTS TO AID PLANT ESTABLISHMENT AS PER THE TABLE BELOW.

TABLE: RECIPE FOR AMELIORATING THE TOP 100mm OF BIORETENTION FILTER MEDIA

CONSTITUENT	QUANTITY (kg/100m ² OF FILTER AREA)
GRANULATED POULTRY MANURE FINES	50
SUPERPHOSPHATE	2
MAGNESIUM SULPHATE	3
POTASSIUM SULPHATE	2
TRACE ELEMENT MIX	1
FERTILIZER NPK (16.4.14)	4
LIME	20

B) TRANSITIONAL / DRAINAGE LAYER

IN LINED SYSTEMS THE SUBMERGED ZONE OFTEN INCLUDES A CARBON SOURCE MIXED THROUGHOUT THE SUBMERGED LAYERS. THIS PROVIDES ELECTRONS TO DRIVE DENITRIFICATION (A KEY NITROGEN REMOVAL PROCESS). THE CARBON SOURCE SHOULD DECOMPOSE IN THE FIRST ONE TO TWO LAYERS OF OPERATION, WHILE PLANT ROOTS DEVELOP (WHICH PROVIDE CARBON OVER THE LONG TERM). THE CARBON SOURCE SHOULD COMPRISE APPROXIMATELY 5% (V/V) AND INCLUDE A MIXTURE OF MULCH AND HARDWOOD CHIPS (APPROXIMATELY 6mm GRADING) BY VOLUME. THE CARBON SOURCE MATERIAL NEEDS TO BE LOW IN NUTRIENTS; APPROPRIATE MATERIALS INCLUDE SUGAR CANE MULCH, PINE CHIPS (WITHOUT BARK) AND PINE FLOUR (SAWDUST).

INSTALLATION:

FILTER MATERIAL IS TO BE LIGHTLY COMPACTED EG. A SINGLE PASS WITH A DRUM LAWN ROLLER. UNDER NO CIRCUMSTANCES SHOULD HEAVY EQUIPMENT OR MULTIPLE PASSES BE MADE. FILTER MEDIA SHOULD BE INSTALLED IN TWO LIFTS UNLESS THE DEPTH IS LESS THAN 500mm.

Notes

0 0.2 0.4 0.6 0.8 1m
SCALE 1:10 @A1

4	ISSUED FOR REF	YL	PL	2024.11.21
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BRADFIELD CITY

STORMWATER TRUNK INFRASTRUCTURE,
SEDIMENT BASINS, WETLANDS AND PONDS DESIGN

215 BADGERYS CREEK ROAD, BRINGELLY, NSW 2556

Title

TYPICAL DETAILS
SHEET 5

Project No.
304000968

Revision
4

Scale
1:10 A1

Drawing No.
304000968-100-C2205

PL

2023.09.29

BW

YL

RO

2023.09.29

Authorised

RPEQ #

YYYY.MM.DD

Dwn.

Dsgn.

Chkd.

YYYY.MM.DD

ORIGINAL SHEET - ISO A1

COORD - MGA 2020

DATUM - AHJD

P0106-2/11/2024 2:43:17 PM BY CIBD/IOJ.BRITANY

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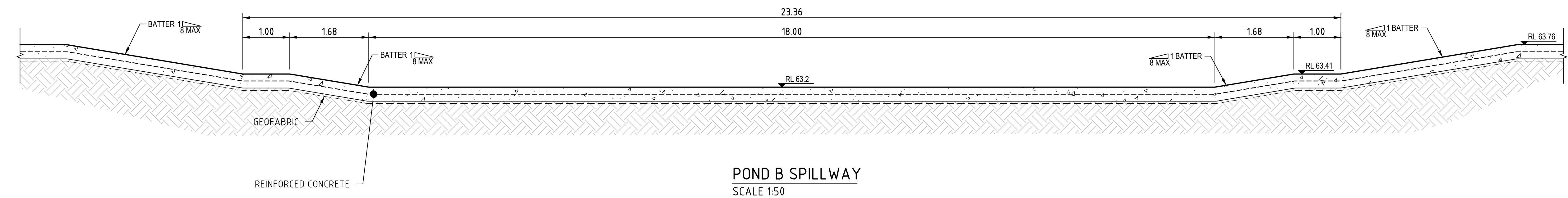
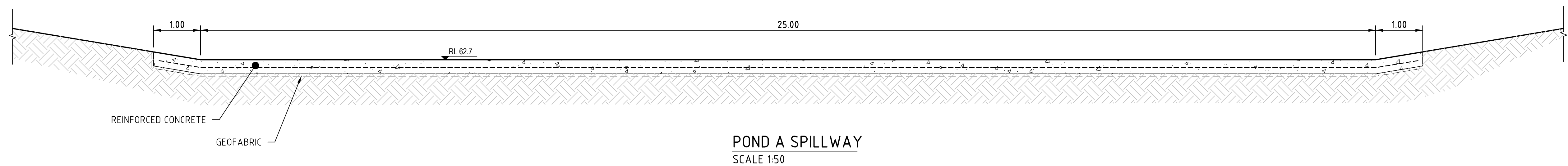
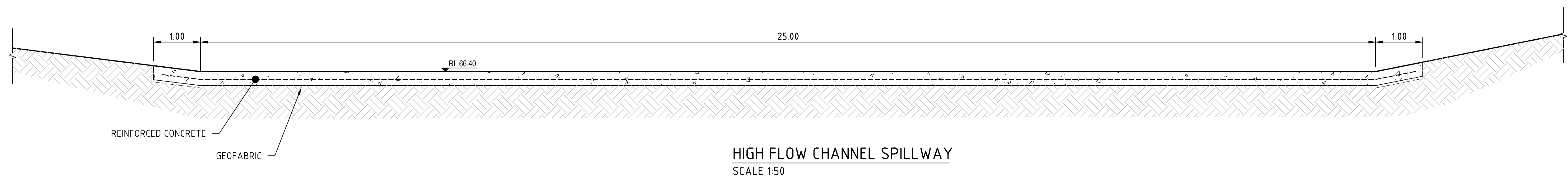
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Notes

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Issue Status

Colour Disclaimer



Client/Project Logo

Client/Project

Title

Scale

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	Issued/Revision	By	Appd	YYYY.MM.DD

304000968-100-C2208

