



LEGEND:

- 10.0 PROPOSED SURFACE CONTOURS
- 10.0 EXISTING SURFACE CONTOURS
- NOMINAL KERB LINE
- TOP/TOE OF BATTER
- BUILDING PAD AND LEVEL
- EXISTING STORMWATER DRAINAGE
- EXISTING WATER RETICULATION
- EXISTING SEWERAGE RETICULATION
- SITE BOUNDARY
- PROPOSED RETAINING WALL 0.4m TO 1.0m
- PROPOSED RETAINING WALL 1.0m TO 1.5m
- PROPOSED RETAINING WALL 1.5m TO 2.0m
- PROPOSED RETAINING WALL 2.0m TO 3.0m
- WATERWAYS
- HABITAT AREAS
- 1% AEP FLOOD EXTENT
- BIODIVERSITY CORRIDOR
- EXISTING TOP OF BANK

CUT FILL DEPTH RANGE

Lower value	Upper value	Colour	
-2	to -1.5	m	Red
-1.5	to -1	m	Red
-1	to -0.5	m	Red
-0.5	to 0.00	m	Red
0.000	to 5	m	Light Green
5	to 1.0	m	Light Green
1.0	to 1.5	m	Light Green
1.5	to 2	m	Light Green
2	to 2.5	m	Light Green
2.5	to 3	m	Light Green
3	to 3.5	m	Light Green

CONCEPT CUT / FILL VOLUMES

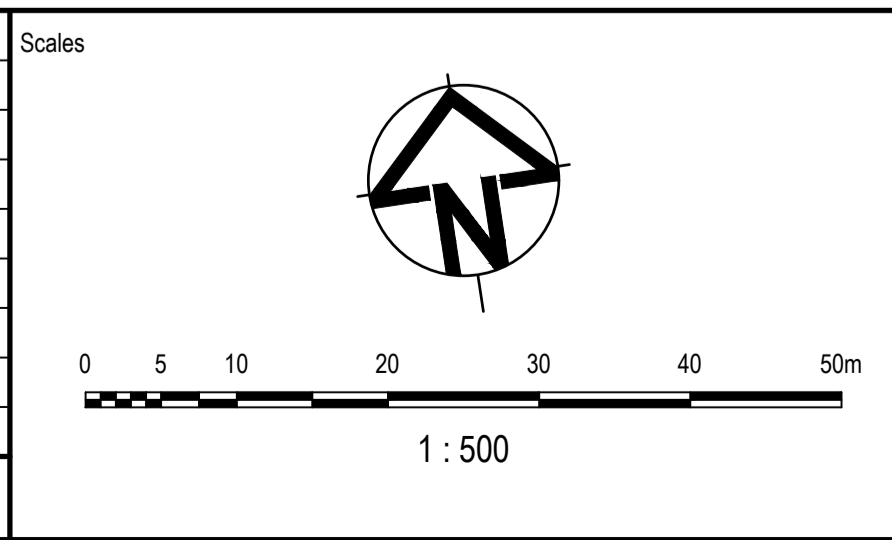
CUT	-15,085m ³
FILL	13,811m ³
BALANCE (EXPORT)	-1,274m ³

NOTE: NO TOPSOIL STRIP OF EXISTING AND TOPSOIL RE-SPREAD HAS BEEN APPLIED TO VOLUMES. NO COMPACTION OR BULKING FACTORS HAVE BEEN APPLIED. SUBJECT TO DETAILED DESIGN.

NOTES:

- RETAINING WALLS TO HAVE COLOURED AND TEXTURED FINISHED AS PER FUTURE LANDSCAPE ARCHITECTURE DETAILS.

Issue	Description	DR	DE	VE	Date
02	IR RESPONSE	R.R.	G.G.		22.02.24
01	ORIGINAL ISSUE	O.P.	G.G.	A.S.	08.08.23



Status

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Original Issue Signatures	
Drawn	O.PERILLA
Designed	G.GESMUNDO
Project Manager	A.SHEPHERD
Verified	A.SHEPHERD

Original Size	A1
Height Datum	AHD
Grid	LOCAL

Project

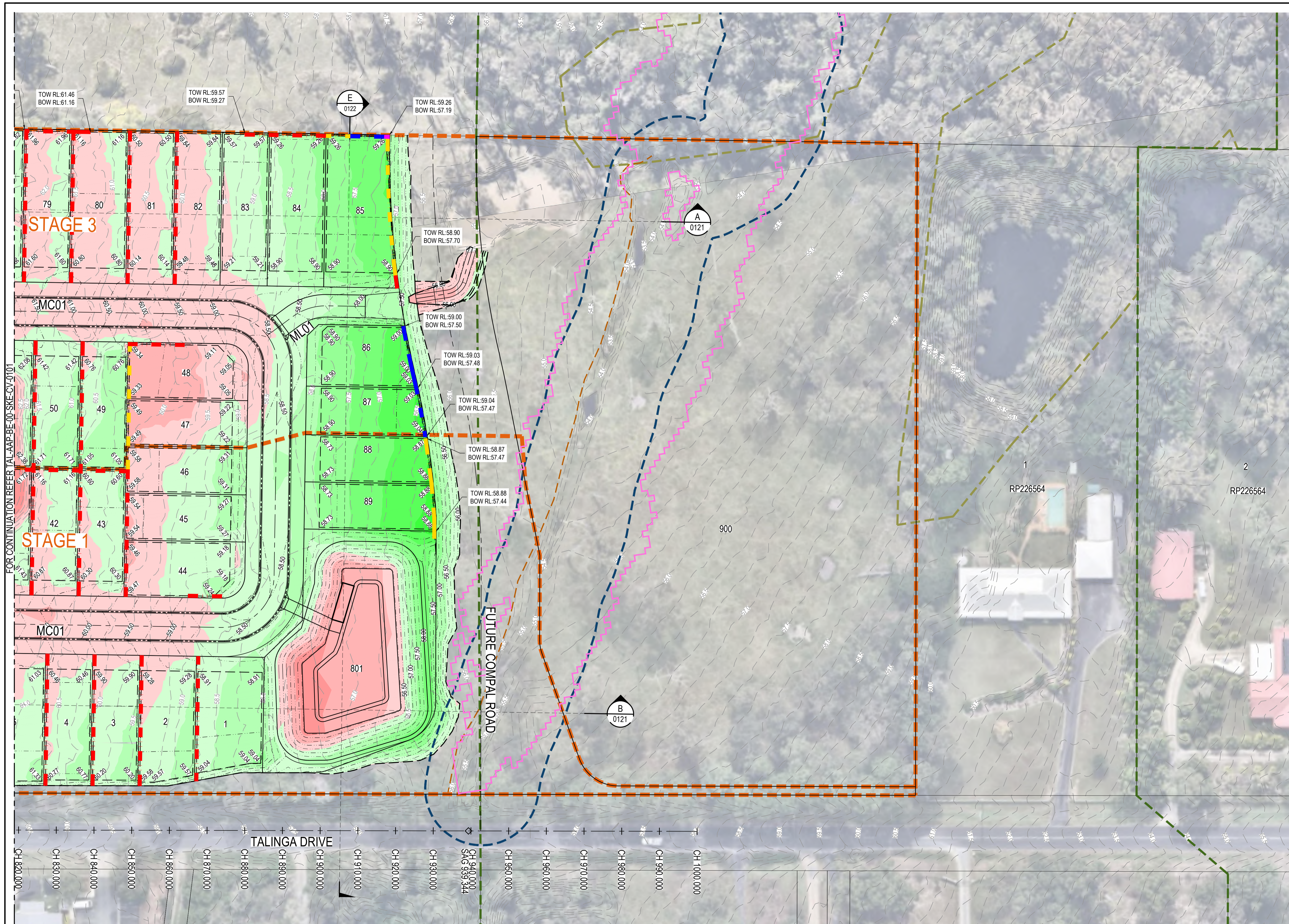
TALINGA DRIVE

Title

CONCEPT EARTHWORKS PLAN
SHEET 1

Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number	30156352
Drawing No.	TAL-AAP-BE-00-SKE-CV-0101
Issue	02



LEGEND:

- 10.0 PROPOSED SURFACE CONTOURS
- 10.0 EXISTING SURFACE CONTOURS
- NOMINAL KERB LINE
- TOP/TOE OF BATTER
- BUILDING PAD AND LEVEL
- EXISTING STORMWATER DRAINAGE
- EXISTING WATER RETICULATION
- EXISTING SEWERAGE RETICULATION
- SITE BOUNDARY
- PROPOSED RETAINING WALL 0.4m TO 1.0m
- PROPOSED RETAINING WALL 1.0m TO 1.5m
- PROPOSED RETAINING WALL 1.5m TO 2.0m
- PROPOSED RETAINING WALL 2.0m TO 3.0m
- WATERWAYS
- HABITAT AREAS
- 1% AEP FLOOD EXTENT
- BIODIVERSITY CORRIDOR
- EXISTING TOP OF BANK

CUT FILL DEPTH RANGE

Lower_value	Upper_value	Colour
-2	to -1.5	m
-1.5	to -1	m
-1	to -0.5	m
-0.5	to 0.00	m
0.000	to 5	m
5	to 1.0	m
1.0	to 1.5	m
1.5	to 2	m
2	to 2.5	m
2.5	to 3	m
3	to 3.5	m

CONCEPT CUT / FILL VOLUMES

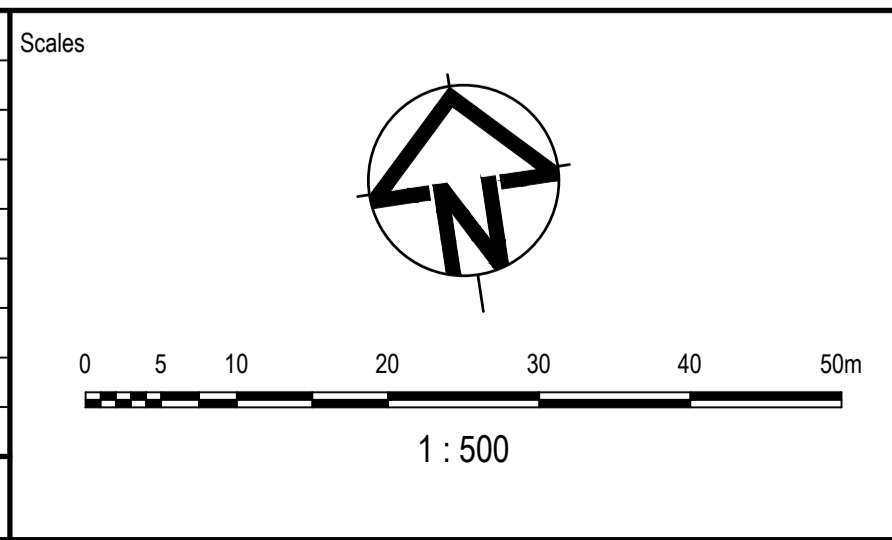
CUT	-15,085m ³
FILL	13,811m ³
BALANCE (EXPORT)	-1,274m ³

NOTE: NO TOPSOIL STRIP OF EXISTING AND TOPSOIL RE-SPREAD HAS BEEN APPLIED TO VOLUMES. NO COMPACTION OR BULKING FACTORS HAVE BEEN APPLIED. SUBJECT TO DETAILED DESIGN.

NOTES:

- RETAINING WALLS TO HAVE COLOURED AND TEXTURED FINISHED AS PER FUTURE LANDSCAPE ARCHITECTURE DETAILS.

Issue	Description	DR	DE	VE	Date
03	FURTHER IR RESPONSE	A.S.	A.S.		26.03.24
02	IR RESPONSE	R.R.	G.G.		22.02.24
01	ORIGINAL ISSUE	O.P.	G.G.	A.S.	08.08.23



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Original Issue Signatures

Drawn	O.PERILLA	Original Size	A1
Designed	G.GESMUNDO	Height Datum	AHD
Project Manager	A.SHEPHERD	Grid	LOCAL
Verified	A.SHEPHERD		

Project: **TALINGA DRIVE**

Title: **CONCEPT EARTHWORKS PLAN SHEET 2**

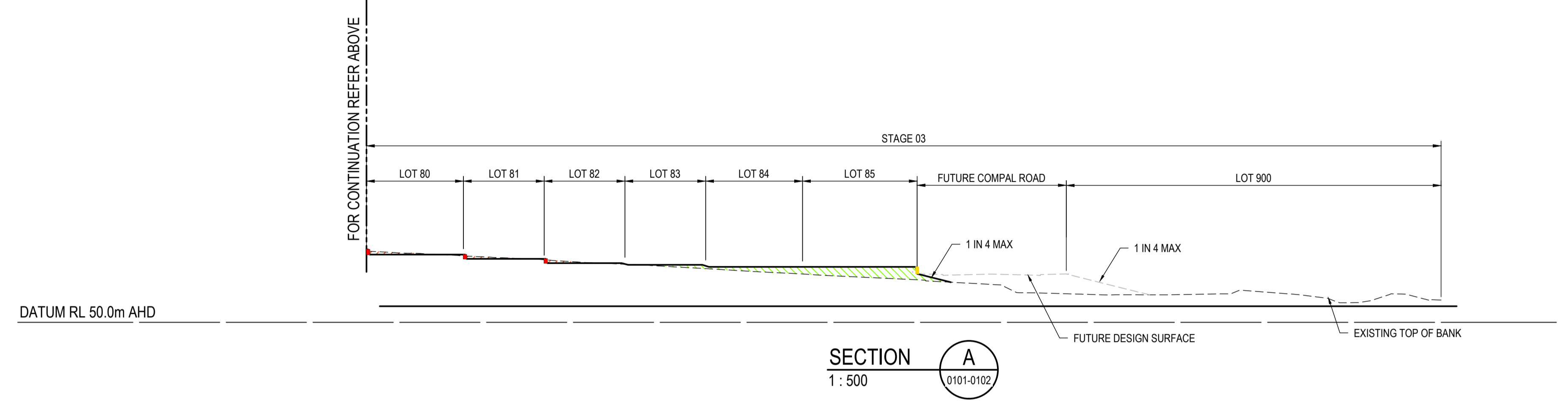
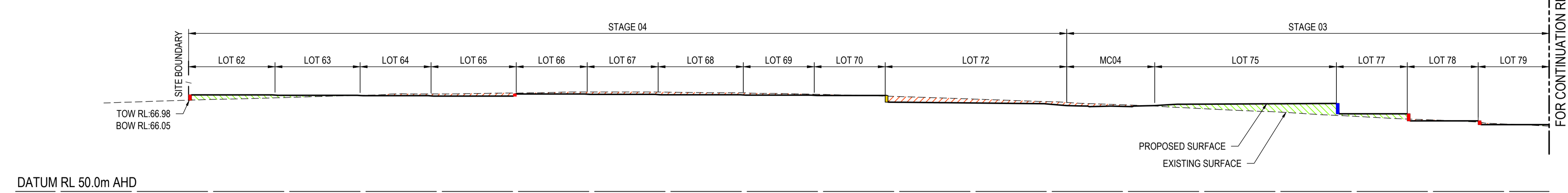
Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number	30156352
Issue	03

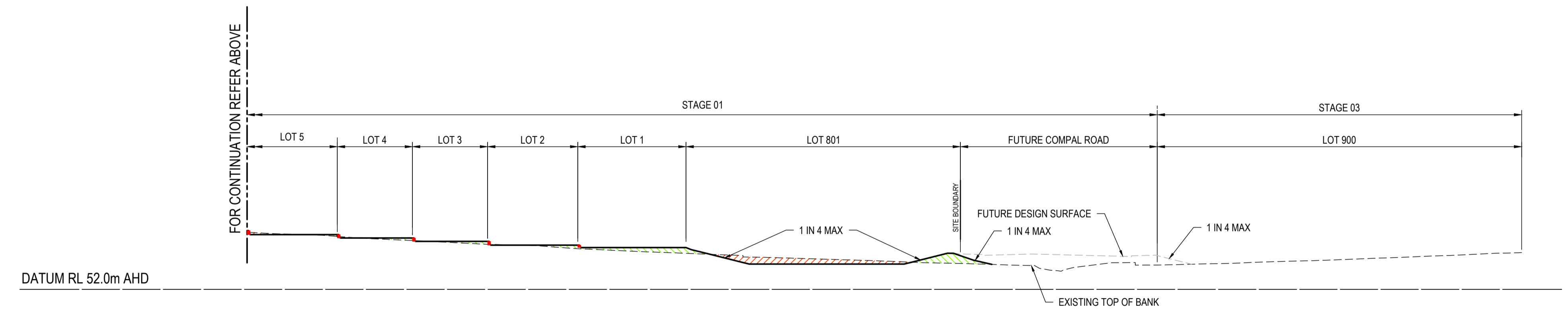
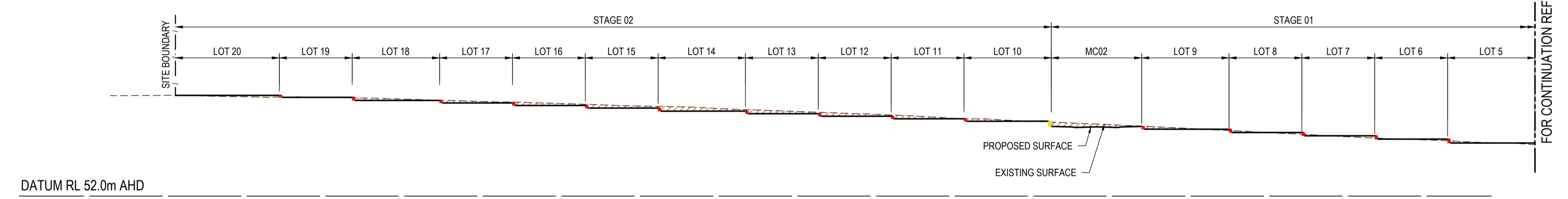
TAL-AAP-BE-00-SKE-CV-0102

LEGEND:

	FILL AREA
	CUT AREA
	PROPOSED RETAINING WALL 0.4m TO 1.0m
	PROPOSED RETAINING WALL 1.0m TO 1.5m
	PROPOSED RETAINING WALL 1.5m TO 2.0m
	PROPOSED RETAINING WALL 2.0m TO 3.0m

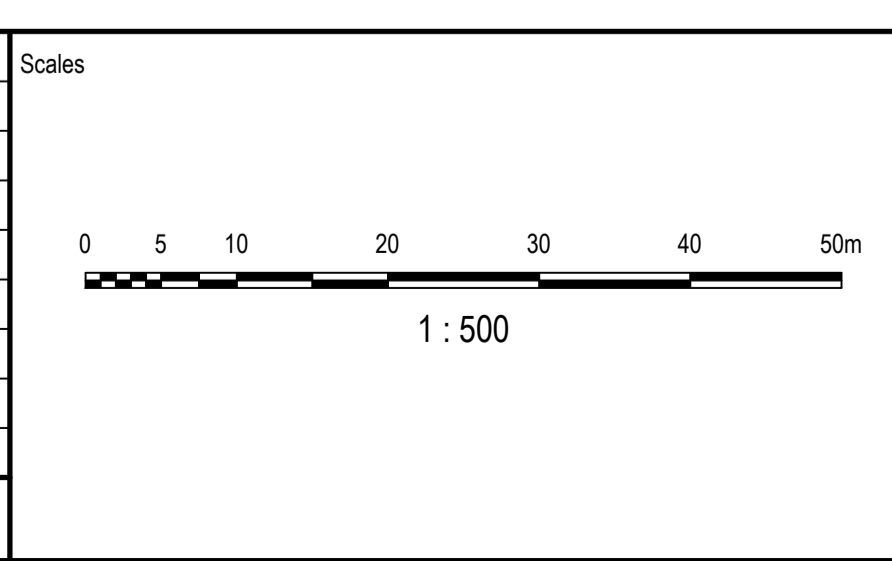


SECTION A
1 : 500
0101-0102



SECTION B
1 : 500
0101-0102

Issue	Description	DR	DE	VE	Date
02	IR RESPONSE	R.R.	G.G.		22.02.24
01	ORIGINAL ISSUE	O.P.	G.G.	A.S.	08.08.23



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Drawn	O.PERILLA	Original Size	A1
Designed	G.GESMUNDO	Height Datum	AHD
Project Manager	A.SHEPHERD	Grid	LOCAL
Verified	A.SHEPHERD		

Project	TALINGA DRIVE
Title	CONCEPT EARTHWORKS SECTIONS SHEET 1

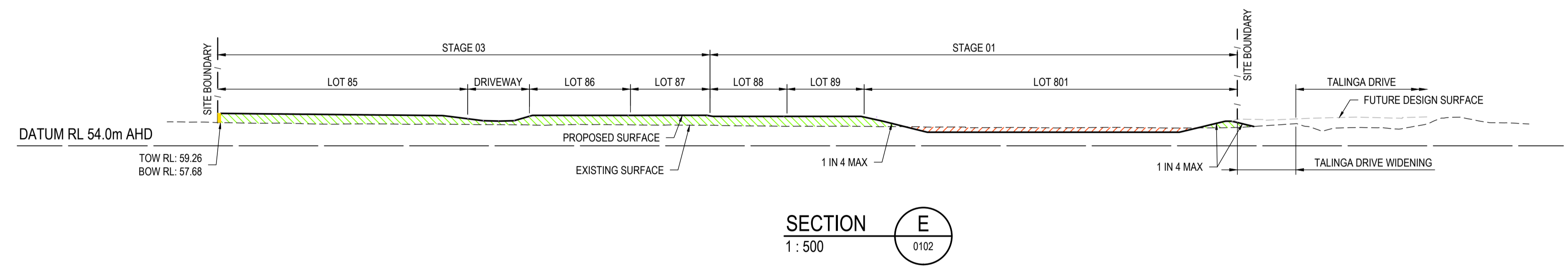
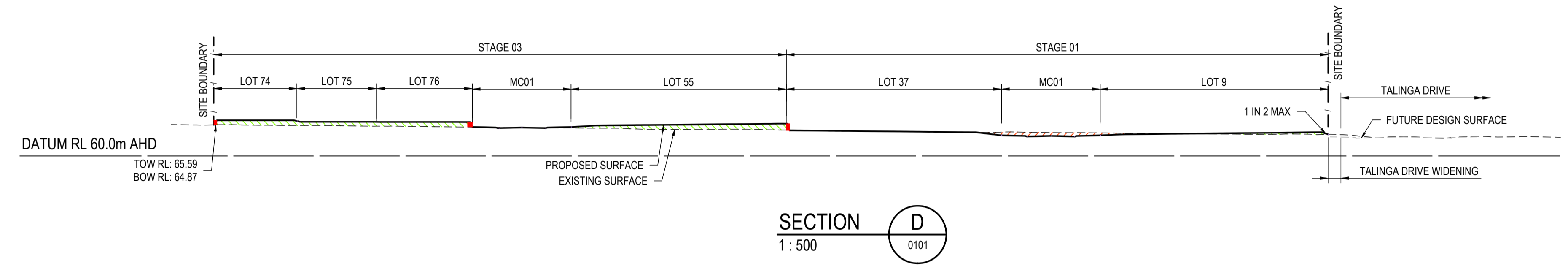
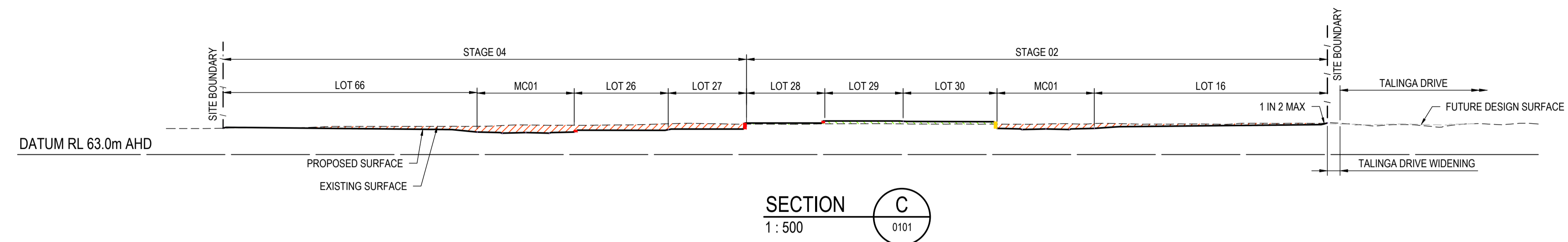
Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number	30156352
Issue	02

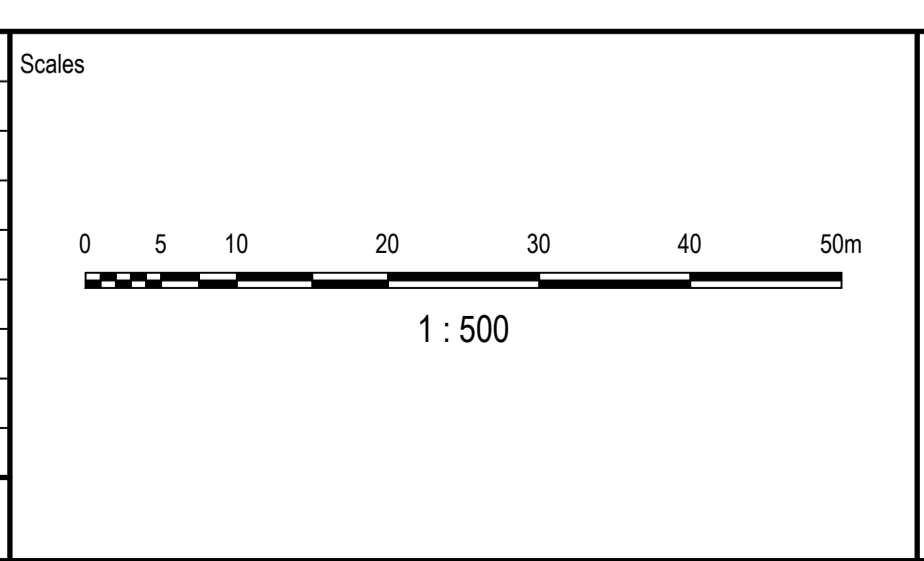
Drawing No: TAL-AAP-BE-00-SKE-CV-0121

LEGEND:

	FILL AREA
	CUT AREA
	PROPOSED RETAINING WALL 0.4m TO 1.0m
	PROPOSED RETAINING WALL 1.0m TO 1.5m
	PROPOSED RETAINING WALL 1.5m TO 2.0m
	PROPOSED RETAINING WALL 2.0m TO 3.0m



02	IR RESPONSE	R.R.	G.G.	22.02.24	
01	ORIGINAL ISSUE	O.P.	G.G. A.S.	08.08.23	
Issue	Description	DR	DE	VE	Date



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Original Issue Signatures	
Drawn	O.PERILLA
Designed	G.GESMUNDO
Project Manager	A.SHEPHERD
Verified	A.SHEPHERD

Original Size	A1
Height Datum	AHD
Grid	LOCAL

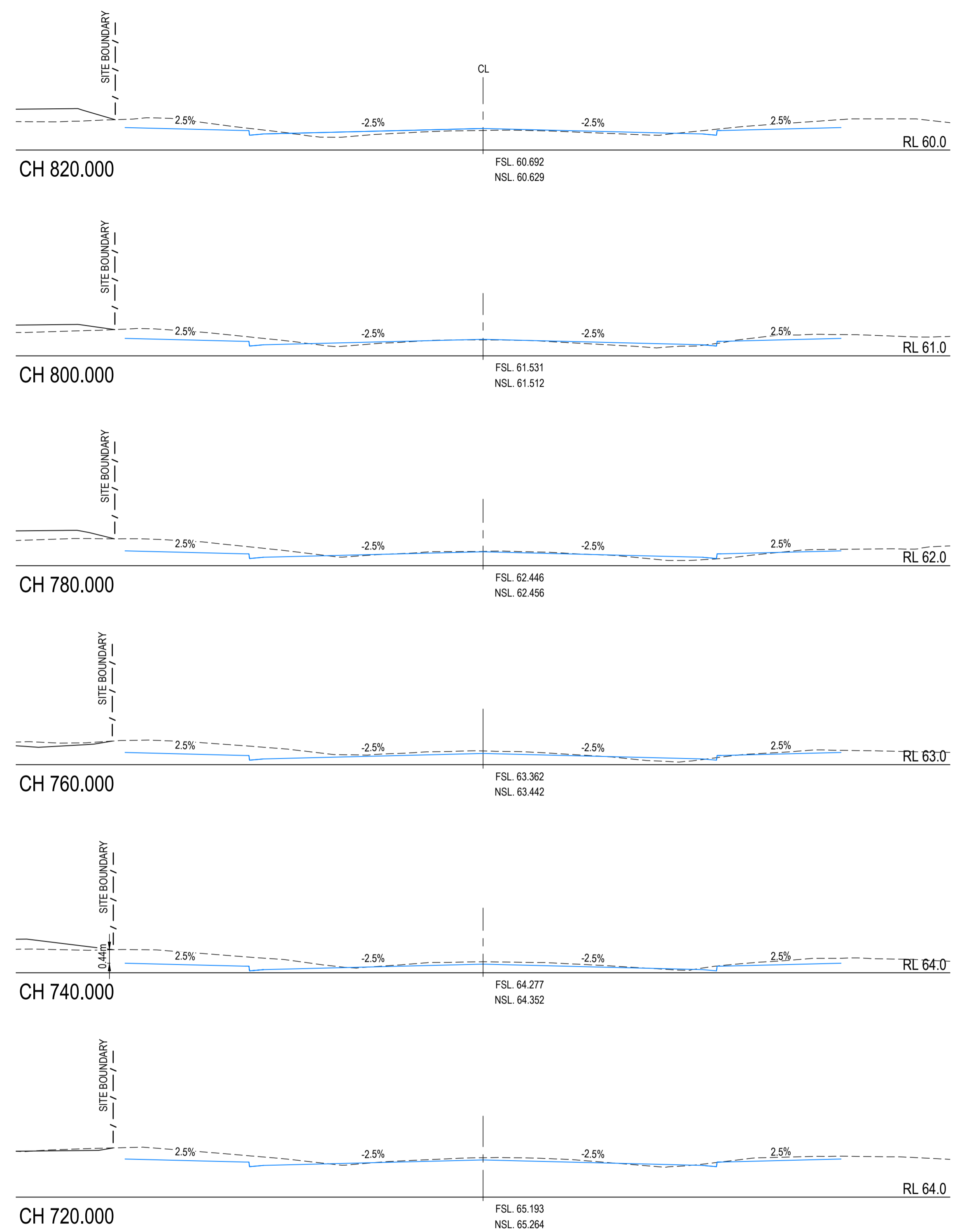
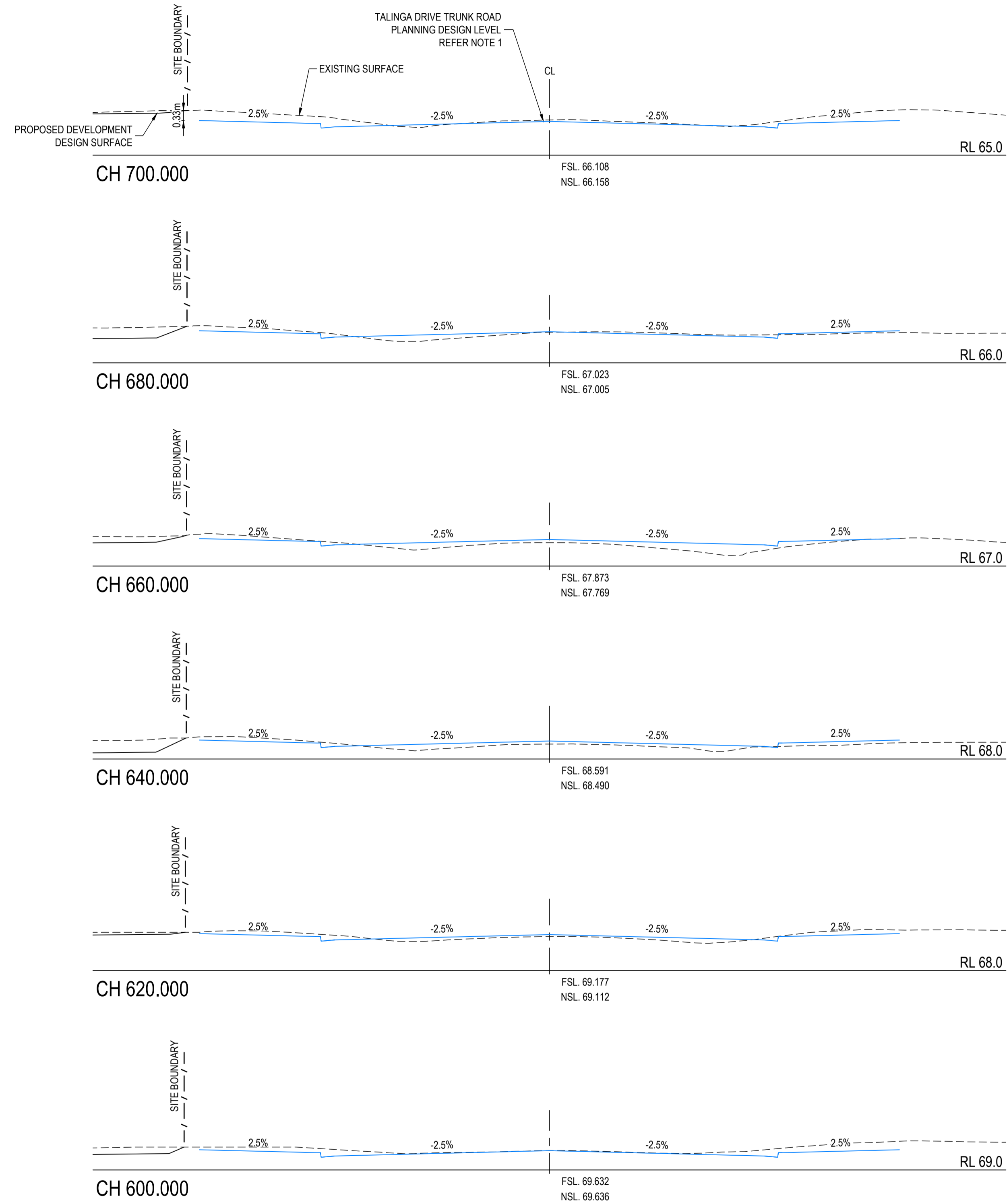
Project: **TALINGA DRIVE**

Title: **CONCEPT BULK EARTHWORKS SECTIONS SHEET 2**

Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
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Project Number	30156352
Issue	02

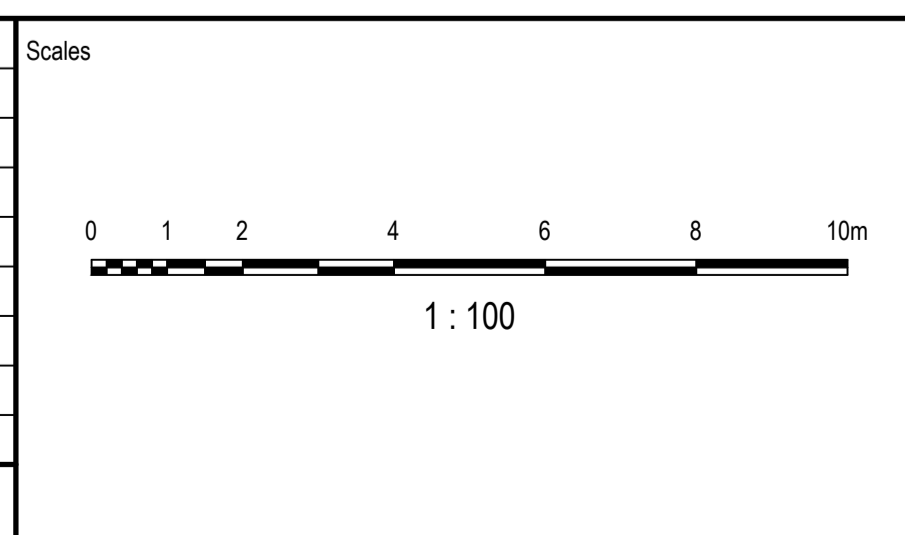
Drawing No: **TAL-AAP-BE-00-SKE-CV-0122**



NOTES:

- TALINGA DRIVE TRUNK ROAD PLANNING WAS CREATED WITH PLANNING DRAWINGS AND CAD FILE PROVIDED BY COUNCIL. CAD FILE PROVIDED CHAINAGE AND CENTRE LINE AND DRAWINGS PROVIDED LEVELS.

01	IR RESPONSE	R.R.	G.G.	22.02.24	
Issue	Description	DR	DE	VE	Date



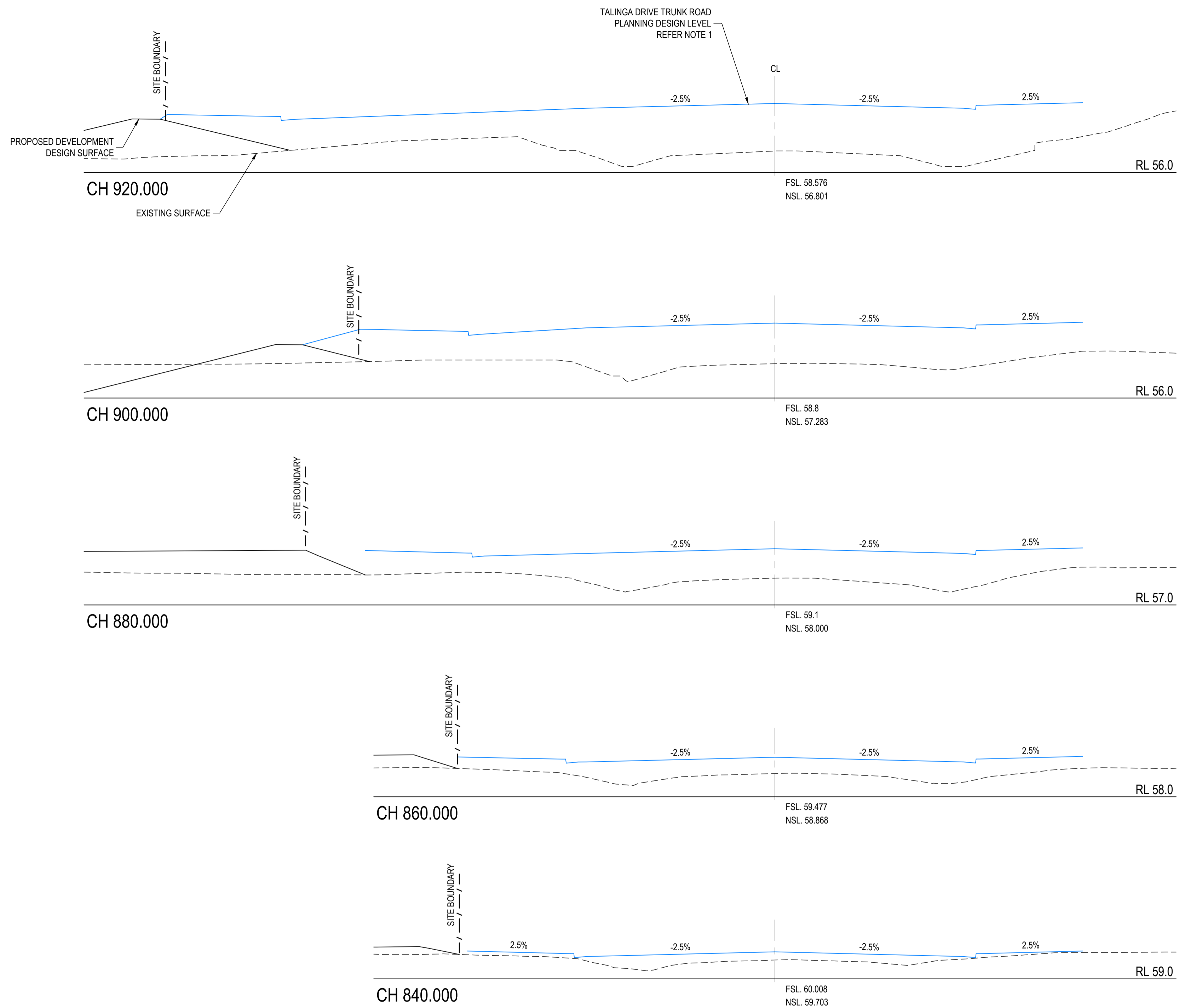
Status CONCEPTUAL DESIGN ONLY NOT TO BE USED FOR CONSTRUCTION			
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Original Issue Signatures			
Drawn	O.PERILLA	Original Size	A1
Designed	G.GESMUNDO	Height Datum	AHD
Project Manager	A.SHEPHERD	Grid	LOCAL
Verified	A.SHEPHERD		

Project	TALINGA DRIVE
Title	TALINGA DRIVE CROSS SECTION SHEET 1

Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number	30156352
Issue	01

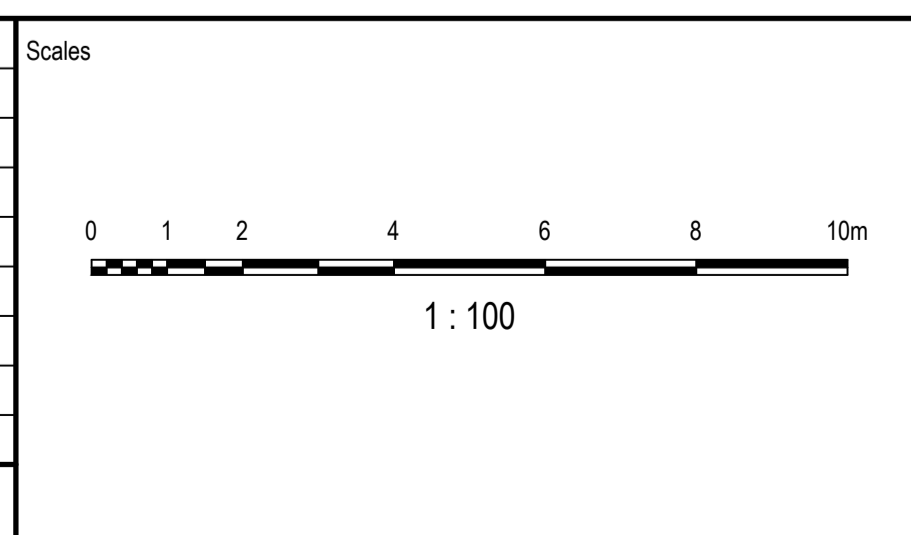
Drawing No: TAL-AAP-BE-00-SKE-CV-0421



NOTES:

1. TALINGA DRIVE TRUNK ROAD PLANNING WAS CREATED WITH PLANNING DRAWINGS AND CAD FILE PROVIDED BY COUNCIL. CAD FILE PROVIDED CHAINAGE AND CENTRE LINE AND DRAWINGS PROVIDED LEVELS.

01	IR RESPONSE	R.R.	G.G.	22.02.24	
Issue	Description	DR	DE	VE	Date



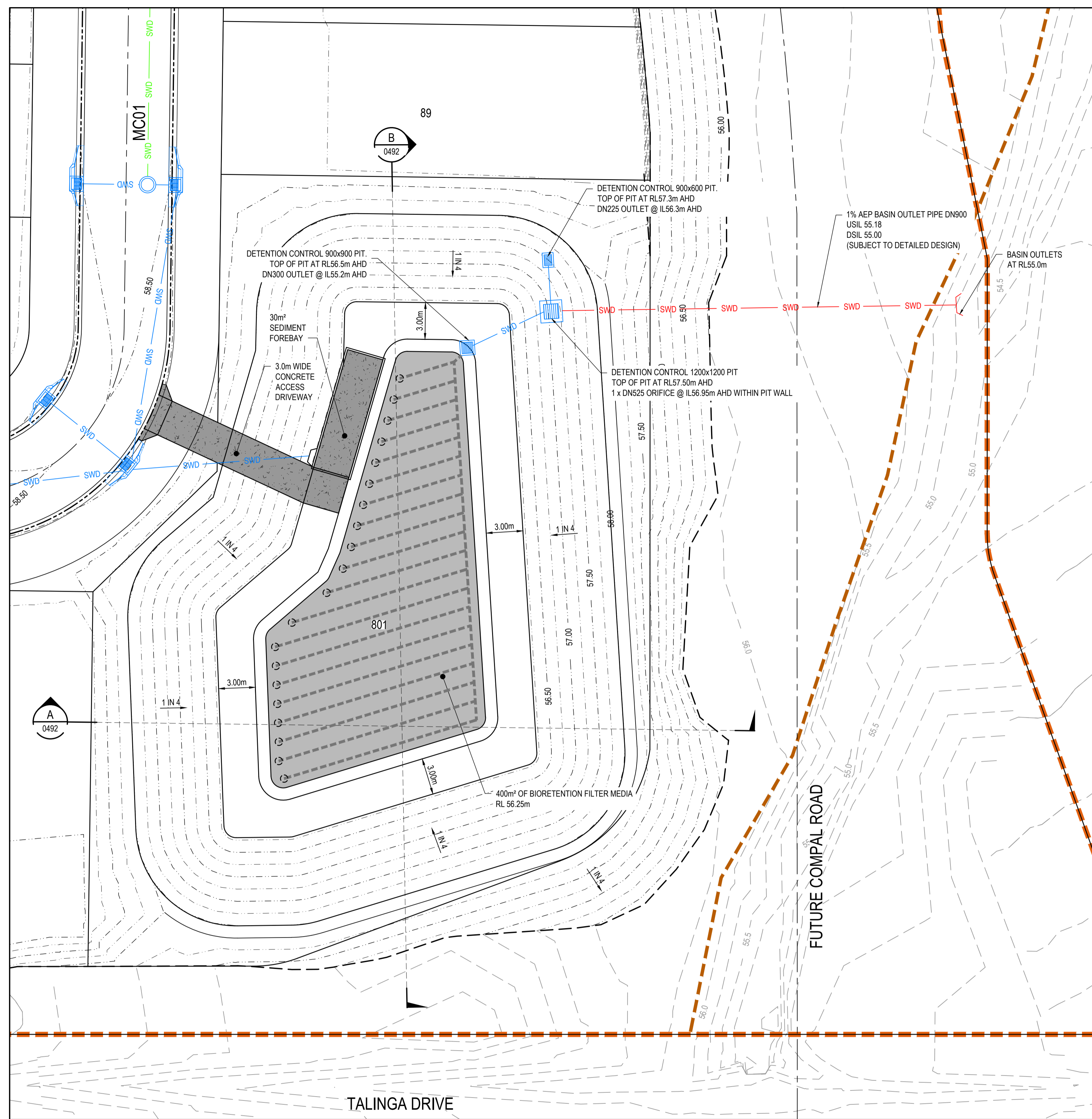
Status CONCEPTUAL DESIGN ONLY NOT TO BE USED FOR CONSTRUCTION			
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Original Issue Signatures			
Drawn	O.PERILLA	Original Size	A1
Designed	G.GESMUNDO	Height Datum	AHD
Project Manager	A.SHEPHERD	Grid	LOCAL
Verified	A.SHEPHERD		

Project	TALINGA DRIVE
Title	TALINGA DRIVE CROSS SECTION SHEET 2

Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number	30156352
Issue	01

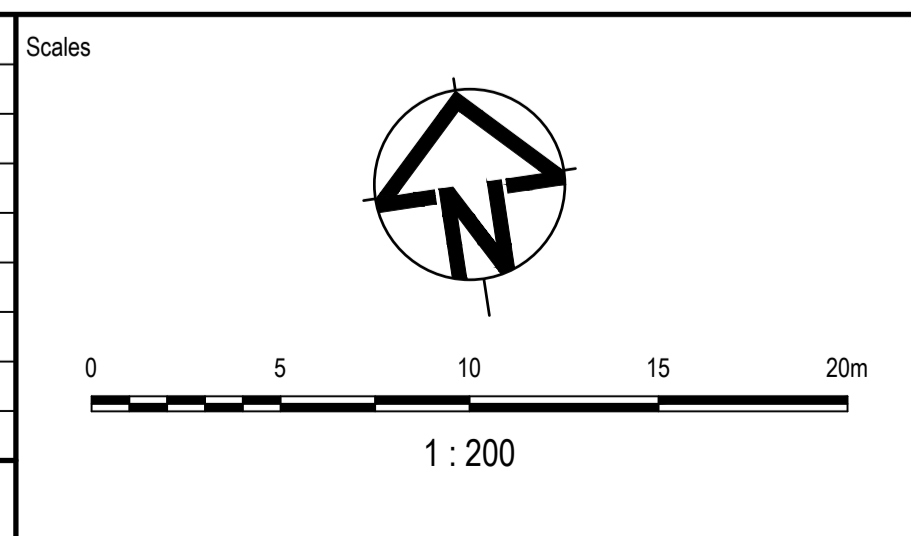
Drawing No: TAL-AAP-BE-00-SKE-CV-0422



- LEGEND:**
- 10.0 PROPOSED SURFACE CONTOURS
 - 10.0 EXISTING SURFACE CONTOURS
 - NOMINAL KERB LINE
 - TOP/TOE OF BATTER
 - SWD PROPOSED STORMWATER DRAINAGE
 - SWD PROPOSED 1% AEP STORMWATER DRAINAGE
 - SWD PROPOSED 4EY STORMWATER DRAINAGE
 - Ø100mm SLOTTED PVC PIPE 0.5% FALL WITH C.I. CAP SUBSOIL CLEAN OUT POINT
 - EXTENT OF FILTER MEDIA
 - CONCRETE MAINTENANCE ACCESS
 - SITE BOUNDARY
 - EXISTING TOP OF BANK

DETENTION BASIN A
1 : 200

02	IR RESPONSE	R.R.	G.G.	22.02.24	
01	ORIGINAL ISSUE	O.P.	G.G. A.S.	08.08.23	
Issue	Description	DR	DE	VE	Date



Status

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Original Issue Signatures	
Drawn	O.PERILLA
Designed	G.GESMUNDO
Project Manager	A.SHEPHERD
Verified	A.SHEPHERD

Original Size	A1
Height Datum	AHD
Grid	LOCAL

Project

TALINGA DRIVE

Title

CONCEPT
DETENTION BASIN PLAN

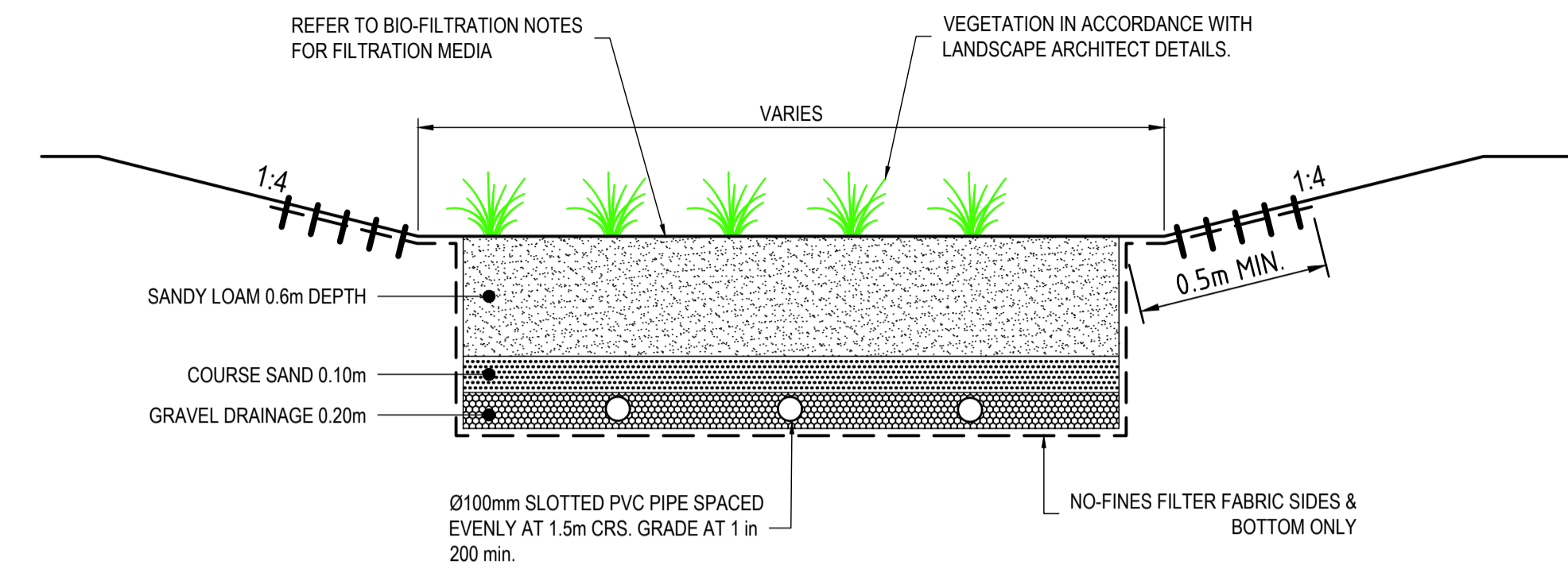
Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number	30156352
Issue	02

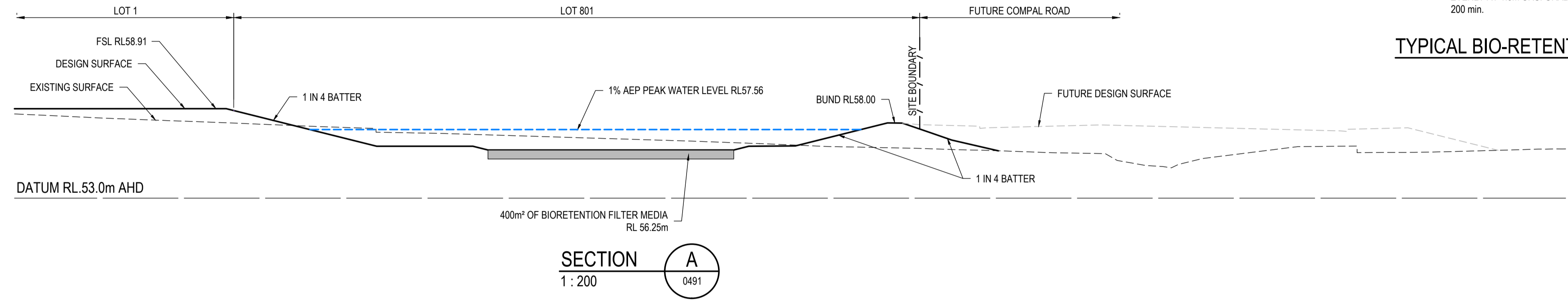
Drawing No: TAL-AAP-BE-00-SKE-CV-0491

NOTES:

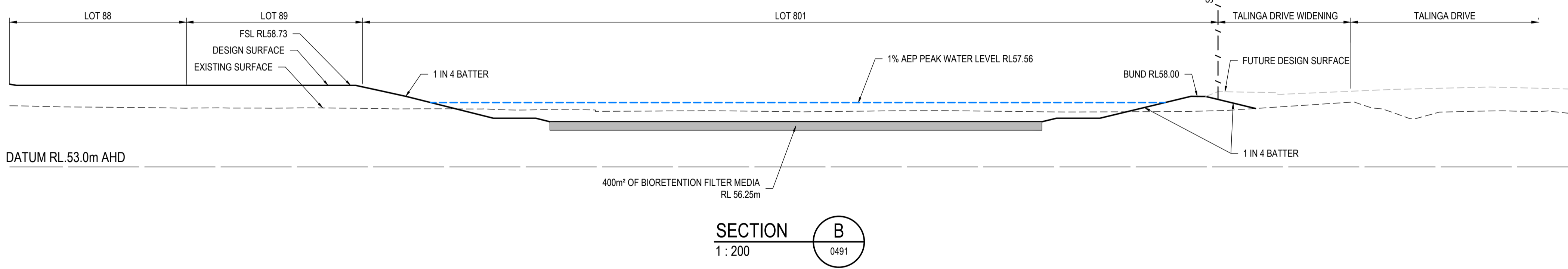
- FILTER MEDIA LAYER SHALL CONFORM WITH THE SPECIFICATIONS OF FAWB GUIDELINES FOR BIO-FILTRATION MEDIA (VERSION 3.01) & WATER BY DESIGN SPECIFICATIONS "BIO-RETENTION TECHNICAL DESIGN GUIDELINES VERSION 1". THE MINIMUM ORGANIC CONTENT OF THE FILTER MEDIA SHALL BE 3%.
- TRANSITION & DRAINAGE MEDIA LAYER SHALL CONFORM WITH THE SPECIFICATIONS OF FAWB GUIDELINES FOR BIO-FILTRATION MEDIA (VERSION 3.01) & WATER BY DESIGN SPECIFICATIONS "BIO-RETENTION TECHNICAL DESIGN GUIDELINES VERSION 1".
- THE CONTRACTOR IS RESPONSIBLE FOR UNDERTAKING DETAILED SURVEY OF EACH LAYER OF THE MEDIA INSTALLED INCLUDING THE SUBGRADE & FINISHED LEVEL SURVEYS. THE DIGITAL SURVEY DATA FOR EACH LAYER IS TO BE ISSUED TO THE SUPERINTENDENT FOR REVIEW PRIOR TO THE SUBSEQUENT LAYER BEING INSTALLED. THE REQUIRED TOLERANCES FOR CONSTRUCTION OF THE MEDIA LAYERS IS INCLUDED IN THE WATER BY DESIGN CONSTRUCTION & ESTABLISHMENT SIGN OFF FORMS - BIO-RETENTION SYSTEMS (VERSION 1.1). ALL COSTS ASSOCIATED WITH THE STAGED CONSTRUCTION APPROACH DUE TO THE SURVEY REVIEW PROCESS, & ANY REWORKS REQUIRED AS A RESULT OF THE SURVEY REVIEWS ARE DEEMED INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CO-SIGNING THE WATER BY DESIGN CONSTRUCTION & ESTABLISHMENT SIGN OFF FORMS - BIO-RETENTION SYSTEMS (VERSION 1.1) AT THE TIME OF CONSTRUCTION OF THE BIO-RETENTION SYSTEMS AS WELL AS MANAGING & COMPLYING WITH THE RELEVANT HOLD & WITNESS POINTS SPECIFIED IN THESE FORMS.
- ALL UNDER DRAINAGE CONNECTIONS TO BE Y JUNCTIONS.



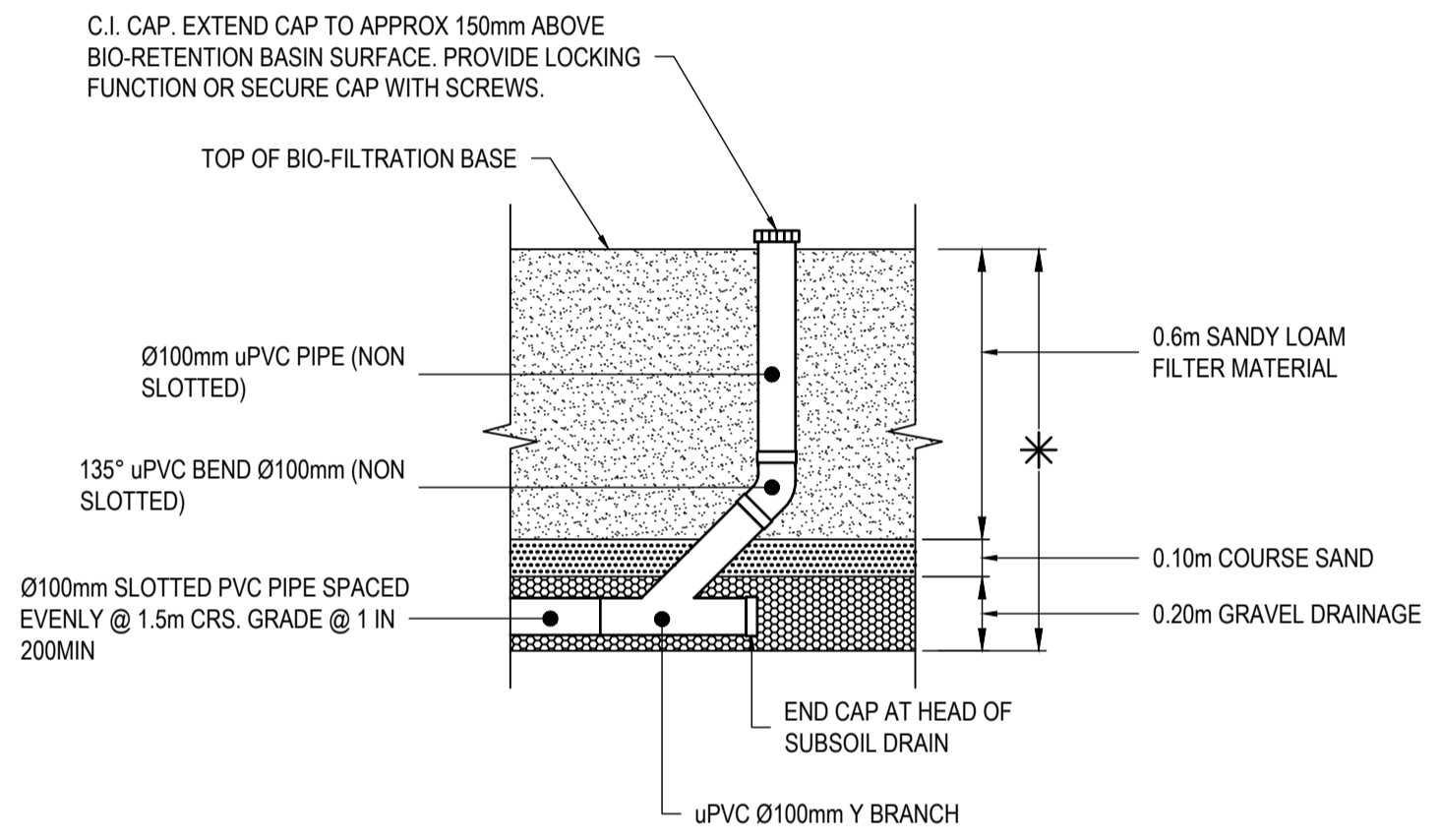
TYPICAL BIO-RETENTION/DETENTION BASIN SECTION
NTS



SECTION A
1 : 200
0491



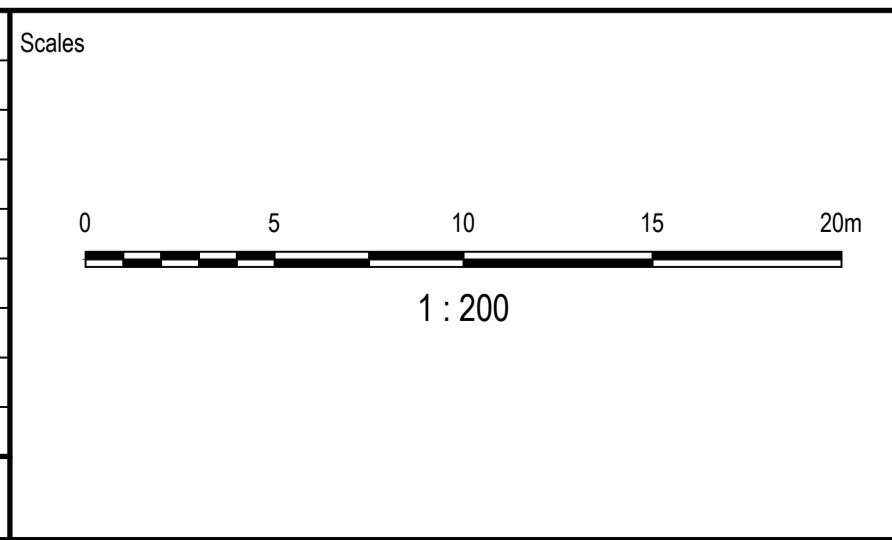
SECTION B
1 : 200
0491



TYPICAL FLUSHING END DETAIL
NTS

SOIL FILTER MEDIA NOTES		
PARAMETER	TEST METHOD IN ACCORDANCE WITH	REQUIREMENT
SATURATED HYDRAULIC CONDUCTIVITY	ASTM f1815-11	50 - 500 mm/hr (200 PREFERRED)
pH	AS 4419	5.5 - 7.5
ELECTRICAL CONDUCTIVITY	AS 4419	<1.2 dS/m
NITROGEN CONTENT	AS 4419	<400 mg/kg
PHOSPHORUS CONTENT	AS 4419	<35 mg/kg
ORGANIC CONTENT	AS 4419	3% - 10%. WHERE ORGANIC CONTENT IS BELOW THIS THRESHOLD, THE FILTER MEDIA MAY BE AMELIORATED BY ADDING 50mm OF COMPOST AND TINGING IT INTO THE TOP 150mm OF FILTER MEDIA.
PARTICLE SIZE DISTRIBUTION	AS 1289.3.6.1 - 1995	CLAY & SILT 3 - 6% (<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)

Issue	Description	DR	DE	VE	Date
02	IR RESPONSE	R.R.	G.G.		22.02.24
01	ORIGINAL ISSUE	O.P.	G.G.	A.S.	08.08.23



Surveyor

Client

Status

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Original Issue Signatures	
Drawn	O.PERILLA Original Size A1
Designed	G.GESMUNDO Height Datum AHD
Project Manager	A.SHEPHERD Grid LOCAL
Verified	A.SHEPHERD

Project

TALINGA DRIVE

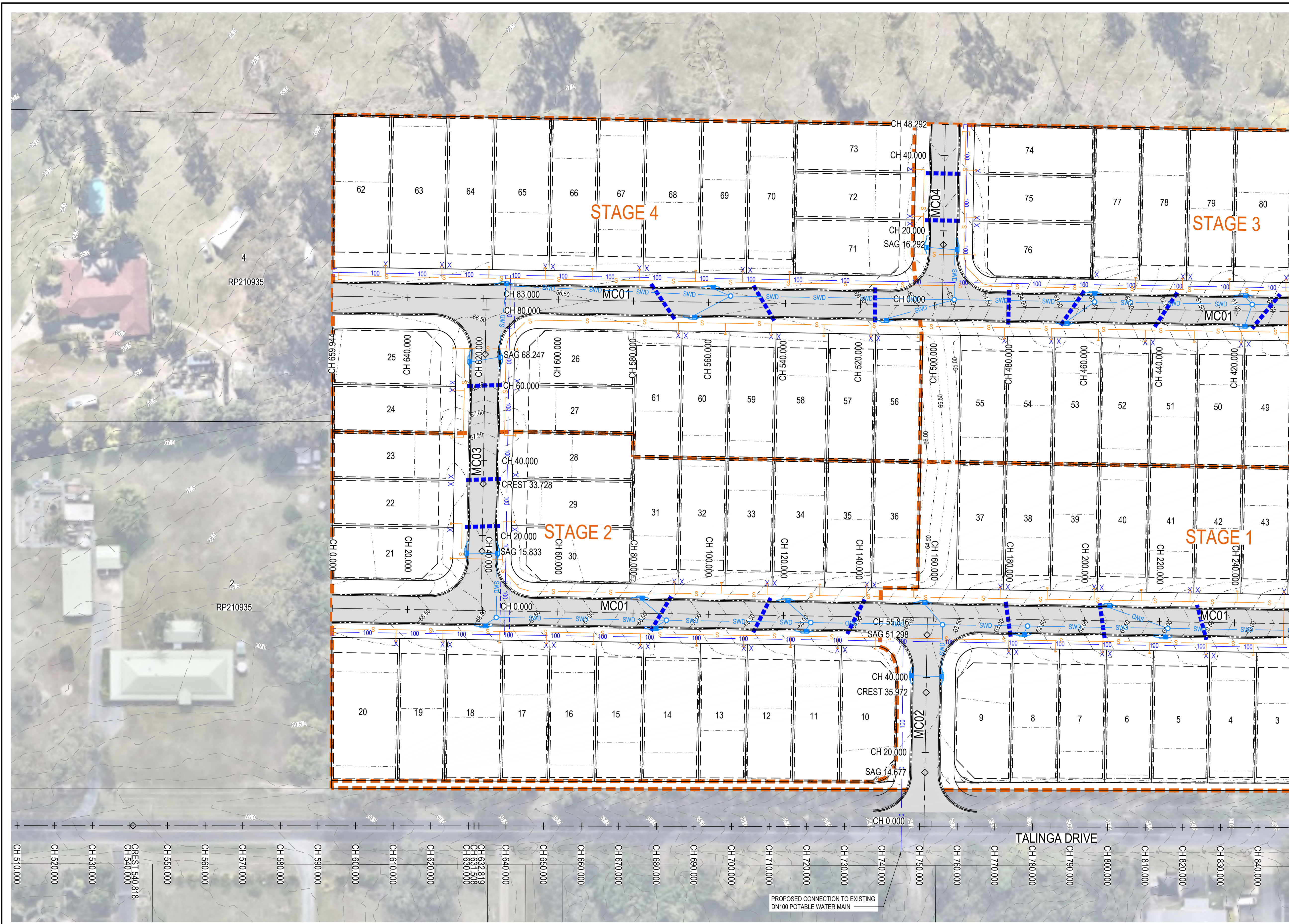
Title

CONCEPT DETENTION BASIN SECTION AND DETAILS

Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number	30156352
Issue	02

Drawing No. **TAL-AAP-BE-00-SKE-CV-0492**



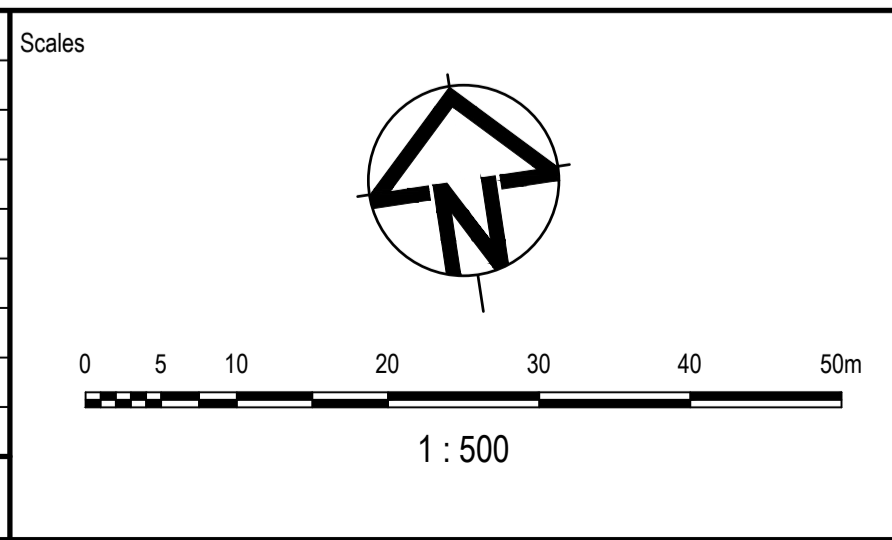
LEGEND:

- 10.0 --- PROPOSED SURFACE CONTOURS
- 10.0 --- EXISTING SURFACE CONTOURS
- --- NOMINAL KERB LINE
- --- TOP/TOE OF BATTER
- --- PROPOSED STORMWATER DRAINAGE
- --- PROPOSED 1% AEP STORMWATER DRAINAGE
- --- PROPOSED 4EY STORMWATER DRAINAGE
- --- PROPOSED SEWERAGE RETICULATION
- --- PROPOSED WATER RETICULATION
- --- Ø100 PVC-M SERIES 1 CONDUIT
- --- PROPOSED ASPHALT PAVEMENT
- --- SCOUR PROTECTION
- --- CONCRETE MAINTENANCE ACCESS
- --- EXISTING STORMWATER DRAINAGE
- --- EXISTING WATER RETICULATION
- --- EXISTING SEWERAGE TRUNK RETICULATION
- --- EXISTING SEWERAGE TRUNK EASEMENT
- --- PROPOSED EASEMENT
- --- SITE BOUNDARY
- --- WATERWAYS
- --- HABITAT AREAS
- --- 1% AEP FLOOD EXTENT
- --- BIODIVERSITY CORRIDOR
- --- EXISTING TOP OF BANK

- NOTES:**
1. SERVICE LAYOUTS ARE CONCEPT ONLY.
 2. SERVICES LAYOUT AND LEVELS SUBJECT TO FUTURE DETAILED DESIGN, AUTHORITY ADVICE AND APPROVALS.
 3. SEWER GRADING IS INDICATIVE TO SHOW THAT THERE IS SUFFICIENT FALL BETWEEN THE SITE CONNECTION AND THE BAYLESS TRUNK SEWER CONNECTION. FINAL DESIGN TO BE COORDINATED WITH LOGAN WATER.

FOR CONTINUATION REFER TAL-AAP-BE-00-SKE-CV-0502

Issue	Description	DR	DE	VE	Date
02	IR RESPONSE	R.R.	G.G.		22.02.24
01	ORIGINAL ISSUE	O.P.	G.G.	A.S.	08.08.23



Surveyor

Client

Status

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Original Issue Signatures	
Drawn	O.PERILLA
Designed	G.GESMUNDO
Project Manager	A.SHEPHERD
Verified	A.SHEPHERD

Original Size	A1
Height Datum	AHD
Grid	LOCAL

Project

TALINGA DRIVE

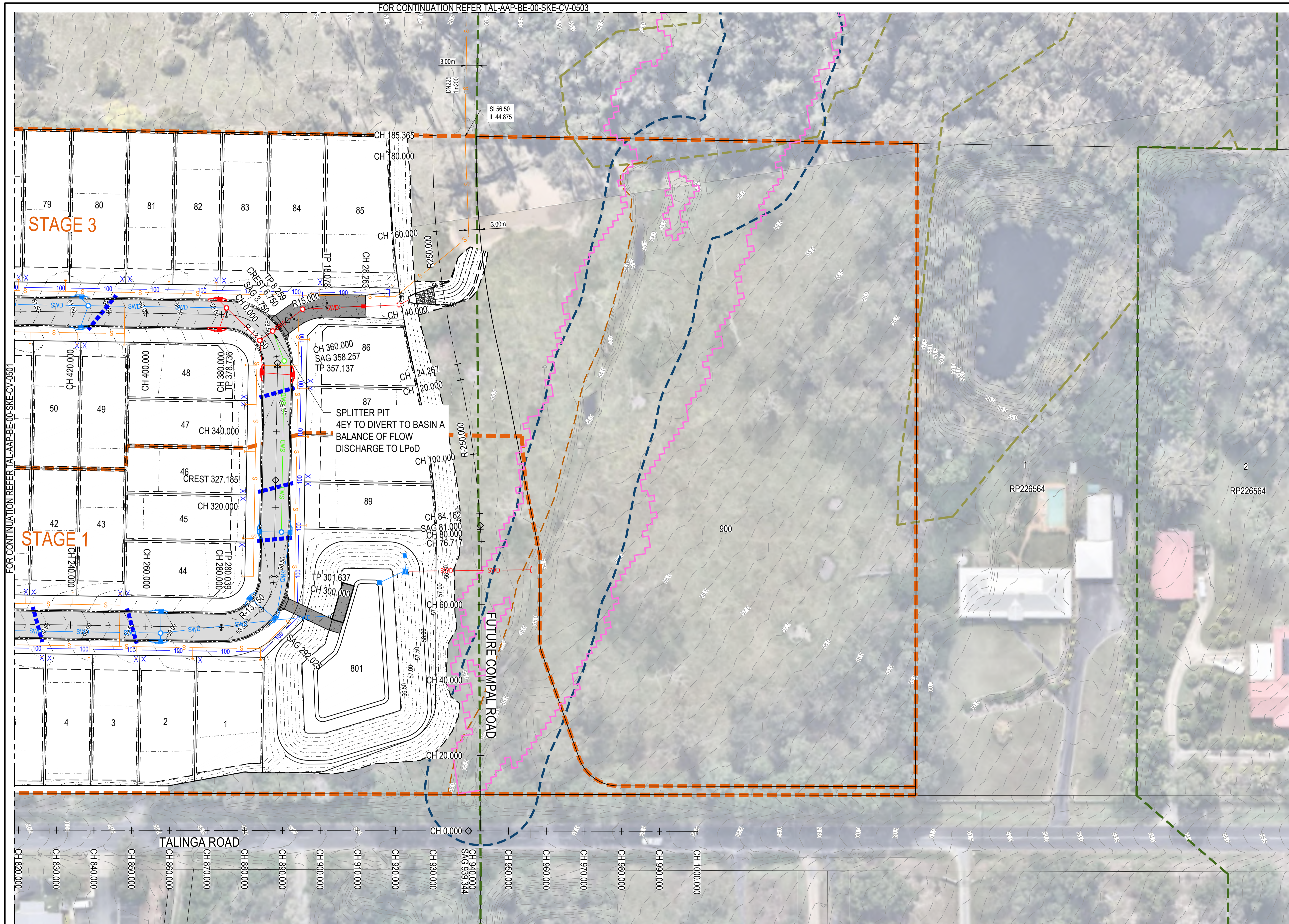
Title

**CONCEPT
COMBINED SERVICES PLAN
SHEET 1**

Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number	30156352
Issue	02

Drawing No: **TAL-AAP-BE-00-SKE-CV-0501**



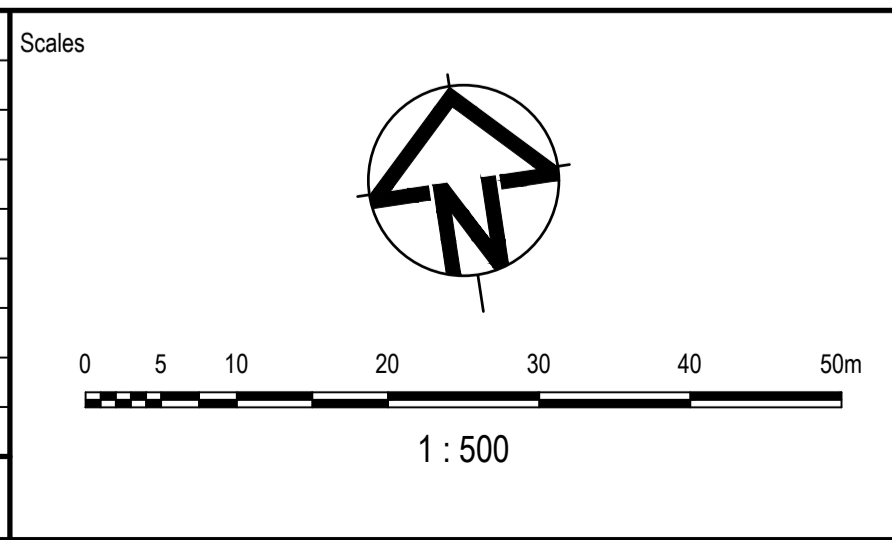
LEGEND:

- 10.0 --- PROPOSED SURFACE CONTOURS
- 10.0 --- EXISTING SURFACE CONTOURS
- --- NOMINAL KERB LINE
- --- TOP/TOE OF BATTER
- SWD --- PROPOSED STORMWATER DRAINAGE
- SWD --- PROPOSED 1% AEP STORMWATER DRAINAGE
- SWD --- PROPOSED 4EY STORMWATER DRAINAGE
- S --- PROPOSED SEWERAGE RETICULATION
- 100 --- PROPOSED WATER RETICULATION
- --- 0100 PVC-M SERIES 1 CONDUIT
- --- PROPOSED ASPHALT PAVEMENT
- --- SCOUR PROTECTION
- --- CONCRETE MAINTENANCE ACCESS
- swd --- EXISTING STORMWATER DRAINAGE
- w --- EXISTING WATER RETICULATION
- st --- EXISTING SEWERAGE TRUNK RETICULATION
- --- EXISTING SEWERAGE TRUNK EASEMENT
- --- PROPOSED EASEMENT
- --- SITE BOUNDARY
- --- WATERWAYS
- --- HABITAT AREAS
- --- 1% AEP FLOOD EXTENT
- --- BIODIVERSITY CORRIDOR
- --- EXISTING TOP OF BANK

- NOTES:**
- SERVICE LAYOUTS ARE CONCEPT ONLY.
 - SERVICES LAYOUT AND LEVELS SUBJECT TO FUTURE DETAILED DESIGN, AUTHORITY ADVICE AND APPROVALS.
 - SEWER GRADING IS INDICATIVE TO SHOW THAT THERE IS SUFFICIENT FALL BETWEEN THE SITE CONNECTION AND THE BAYLESS TRUNK SEWER CONNECTION. FINAL DESIGN TO BE COORDINATED WITH LOGAN WATER.

FOR CONTINUATION REFER TAL-AAP-BE-00-SKE-CV-0501

Issue	Description	DR	DE	VE	Date
03	FURTHER IR RESPONSE	A.S.	A.S.		26.03.24
02	IR RESPONSE	R.R.	G.G.		22.02.24
01	ORIGINAL ISSUE	O.P.	G.G.	A.S.	08.08.23



Surveyor

Client

Status: **CONCEPTUAL DESIGN ONLY**
NOT TO BE USED FOR CONSTRUCTION

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Drawn	O.PERILLA	Original Size	A1
Designed	G.GESMUNDO	Height Datum	AHD
Project Manager	A.SHEPHERD	Grid	LOCAL
Verified	A.SHEPHERD		

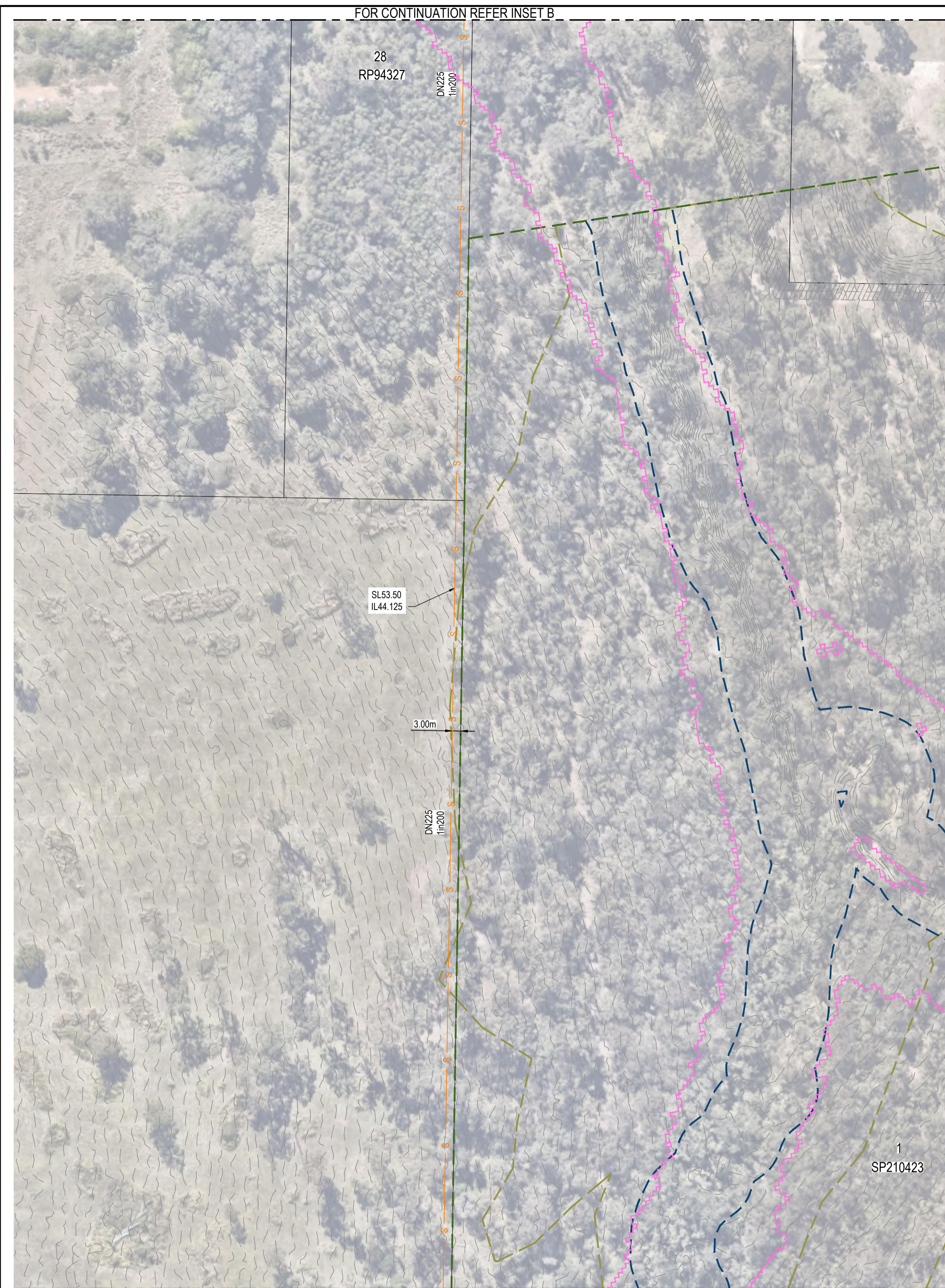
Project: **TALINGA DRIVE**

Title: **CONCEPT COMBINED SERVICES PLAN SHEET 2**

Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number	30156352
Issue	03

TAL-AAP-BE-00-SKE-CV-0502



INSET A
1 : 1000



INSET B
1 : 1000

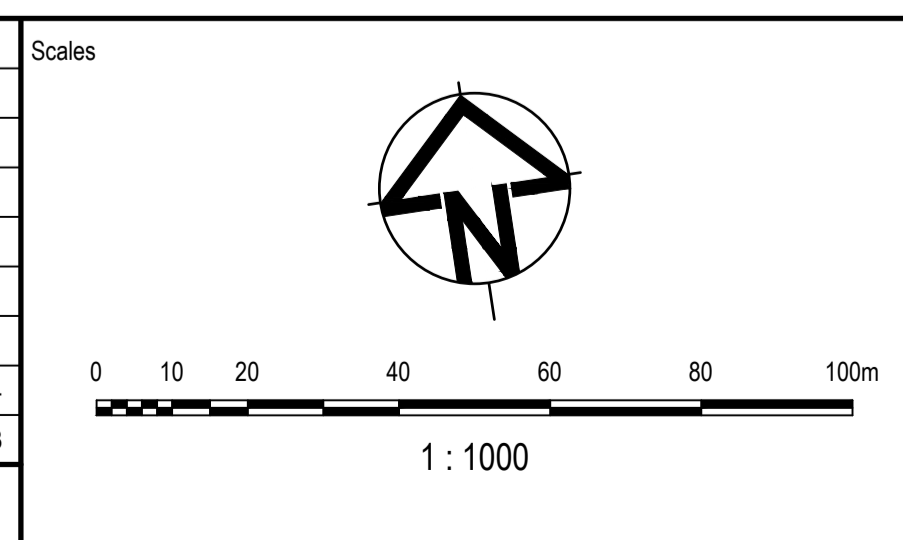
LEGEND:

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NOTES:

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02	IR RESPONSE	R.R.	G.G.	22.02.24	
01	ORIGINAL ISSUE	O.P.	G.G. A.S.	08.08.23	
Issue	Description	DR	DE	VE	Date



Status	CONCEPTUAL DESIGN ONLY NOT TO BE USED FOR CONSTRUCTION		
Original Issue Signatures	© Copyright reserved		
Drawn	O.PERILLA	Original Size	A1
Designed	G.GESMUNDO	Height Datum	AHD
Project Manager	A.SHEPHERD	Grid	LOCAL
Verified	A.SHEPHERD		

Project	TALINGA DRIVE
Title	CONCEPT COMBINED SERVICES PLAN SHEET 3

Arcadis Australia Pacific Pty Limited
Level 7, Seabank Building, 12-14 Marine Parade
SOUTHPORT QLD 4215
ABN 76 104 485 289
Tel No: +61 7 5503 4800
www.arcadis.com/au

Project Number	30156352
Issue	02

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