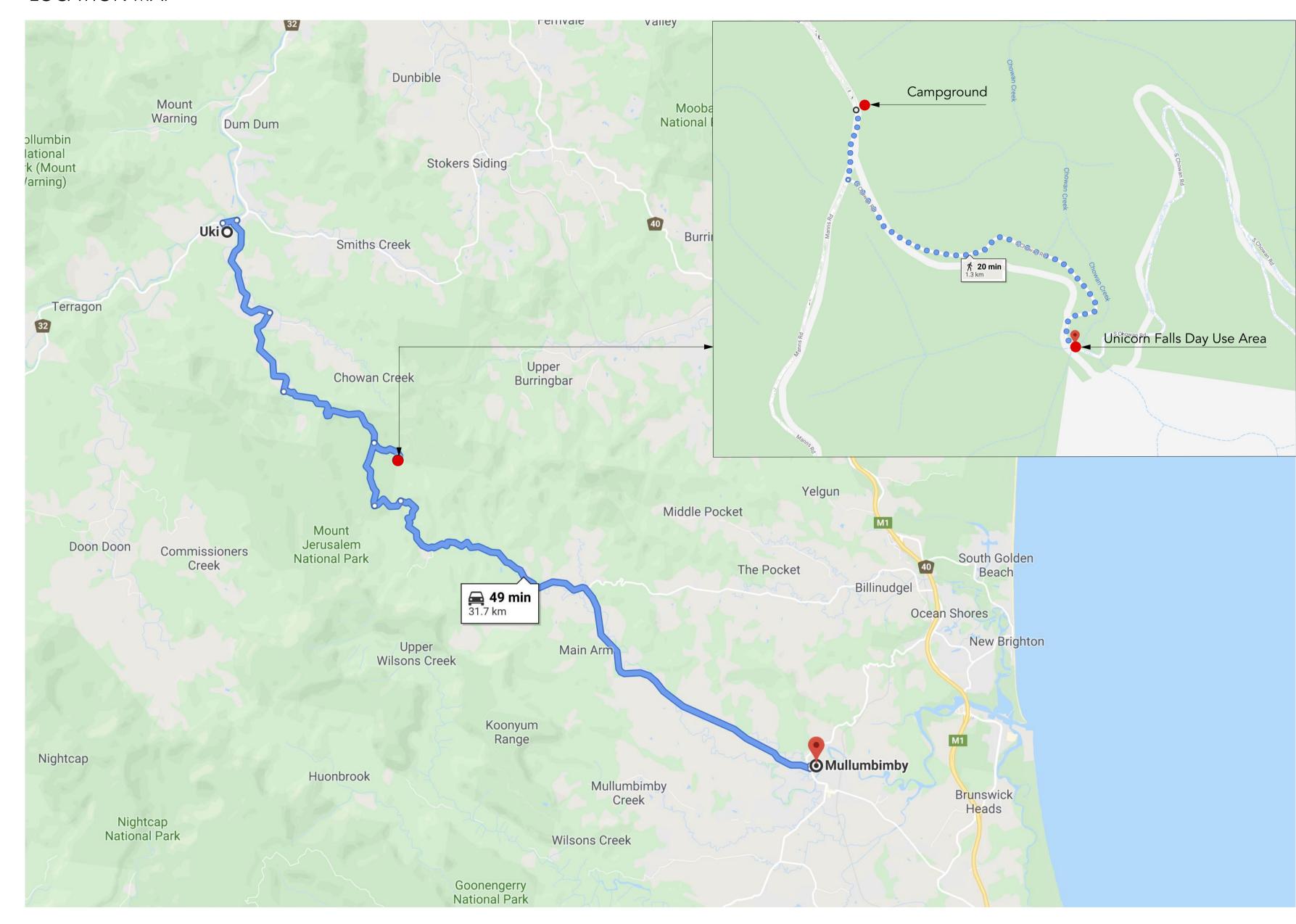
# UNICORN FALLS LANDSCAPE CONSTRUCTION DRAWINGS

ISSUE C 95% DOCUMENTATION 13.01.20

## LANDSCAPE DRAWINGS SHEET REGISTER

DWG NO.	DRAWING TITLE	SCALE	ISSUE
L-000	Cover Sheet	NA	С
L-001	Notes and Legend	NA	C
L-100	Day Use- Survey	1:250	С
L-101	Demolition Plan	1:250	С
L-102	Day Use- GA Plan Overview	1:250	С
L-103	GA Plan 01 OF 02	1:100	С
L-104	GA Plan 02 OF 02	1:100	С
L-105	Set Out Plan 01 OF 02	1:100	С
L-106	Set Out Plan 02 OF 02	1:100	С
L-107	Levels and Grading Plan 01 OF 02	1:100	С
L-108	Levels and Grading Plan 02 OF 02	1:100	С
L-109	Sections 1-3	1:100	С
L-110	Sections 4-6	1:100	С
L-111	Sections 7-9	1:100	С
L-200	Campground- Survey	1:200	С
L-201	Campground - Demolition Plan	1:200	С
L-202	Campground- GA Plan	1:200	С
L-203	Campground - Set Out Plan	1:200	С
L-204	Campground - Levels and Grading Plan	1:200	С
L-205	Section 01	1:50	С
L-206	Sections 02-03	1:50	С
L-207	Sections 04-05	1:50	С
L-208	Sections 06-08	1:50	С
L-209	Sections 09-10	1:50	С
L-300	Details Sheet 01	AS SHOWN	С
L-301	Details Sheet 02	AS SHOWN	С
L-302	Details Sheet 03	AS SHOWN	С
L-303	Details Sheet 04	AS SHOWN	С
L-304	Details Sheet 05	AS SHOWN	С
L-305	Details Sheet 06	AS SHOWN	С

## LOCATION MAP





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95% DOCUMENTATION

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16/12/19

19/12/19



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SCALE STATUS DESIGNED/DRAWN VERIFIED DATE 01-20 JOB NUMBER DRAWING NUMBER L-000

# NOTES

Survey provided by B&P Surveys.

#### **GENERAL**

Existing survey boxes and marks disturbed during construction shall be replaced to new positions as directed by Principal.

Do not use vibratory equipment, except for hand held machines, over the subsurface services. It is the Contractor's responsibility to ensure there is no damage to the services during the works. Replace all materials/ surface damaged to private/ public property. Ensure dated photographs are taken to kerbs and gutters to clearly indicate the existing conditions or any other structures before commencement of construction supply one set of photographs to The Principal and retain one set on site.

The Contractor is to provide temporary silt barriers such as gravel bags/roll, around all stormwater inlet pits to minimise silt and contaminants entering the stormwater lines. During construction the silt traps are to be regularly maintained and any accumulated silt and debris is to be removed from such devices to maintain at least 60% of their capacities.

All existing service access pits, inspection pits and valve covers conflicting with finished surface levels are to be raised or lowered. The Contractor is to ensure that these adjustments are undertaken in accordance with engineer's details. Confirm treatment of unknown owner covers with Principal prior to undertaking adjustment.

Refer Principal for approval of setout before continuing with works.

#### **SET OUT**

- 1. Do not scale off drawings.
- 2. Setout alignment and levels of all structures for approval by Principal prior to commencement of works. If any discrepancy is found or doubt exists between setout and levels as indicated on dwgs and site conditions this shall be referred to the Principal with adequate notice for provision of advice prior to the continuation of works.
- Benchmarks will be clearly marked on site by the Contractor. Benchmark shall be maintained by the Contractor during the course of the project
- All setting out shall be established by the Contractor, who will be responsible for the accuracy of lines and levels of finished work. If any discrepancy is found or doubt exists between setout and levels as indicated on dwgs and site conditions this shall be referred to the Principal with adequate notice for provision of advice prior to the continuation of works.
- Setout locations of furniture items are to be verified on site by Principal prior to the excavation of footings and installation

#### **LEVELS**

- Setout all levels for construction and approve on site with marker stakes to which levels are notated and clearly marked.
- Adjust all levels as instructed prior to final construction
- All falls are to be established as uniform grades between spot heights and contours.
- Paving to all landings to be profiled to provide 1:80 fall for stormwater over land flow.

#### **EROSION AND SEDIMENT CONTROL**

- 1. All work shall be generally carried out in accordance with (a) Local government authority and local government authority
- (b) EPA Pollution control manual for urban stormwater, 2. The Contractor shall provide an Erosion and Sediment Control Plan for the works prior to commencement on-site for approval by the Principal.
- 3. Maintain all erosion and sediment control devices to the satisfaction of the Principal.
- 4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
- Minimise the area of site being disturbed at any one time. 6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
- 7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site
- 8. Control water from upstream of the site such that it does not enter the disturbed site.
- 9. All construction vehicles shall enter and exit the site via the designated construction entry / exit.
- 10. All vehicles entering the site shall be cleaned and inspected before leaving
- 11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
- 12. Clean out all erosion and sediment control devices after each storm event.

#### **SEQUENCE OF WORKS**

- 1. Prior to commencement of excavation the following soil management devices must be installed.
- 1.1 Construct silt fences below the site and across all potential
- 1.2 Construct temporary construction entry / exit and divert runoff
- to suitable control systems. 1.3 Construct measures to divert upstream flows into existing
- stormwater system. 1.4 Construct sedimentation traps / basins including outlet control
- and overflow. 1.5 Construct turf lined swales.
- 1.6 Provide sandbag sediment traps upstream of existing pits.
- 2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
- On completion of pavement provide sand bag kerb inlet sediment traps around pits.

#### **DEMOLITION**

- All benchmarks and control set out points should be verified by the Contractor in the field prior to the commencement of works. Extent of excavations shown on drawings is indicative only -
- refer to levels for detailed information. Existing items noted for stockpile and removed without
- breakage shall be stockpiled and transported to the depot by the Contractor. Damaged items shall be removed from site and disposed of by the Contractor.
- Existing trees to be removed shall be marked on site following approval of setout by Principal. No trees other than those marked and approved shall be removed or damaged.
- Trees not indicated on the survey or demolition plans shall be retained - seek advise and approval from Principal prior to removal of any tree not shown on plans.
- Provide protective fencing to all trees to be retained adjoining the works area of the canopy line of these trees. To trees as marked provide timber batten buffer to 1.8m height from base of tree - wire fix on outside for duration of works.

# LEGEND

#### Legend



1/L-303 B1 Proposed Bollards

1/L-305 B3

1/L-304 B2 Proposed Galvanised Steel Type C Barrier

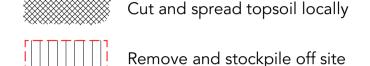
Proposed Slip Rail Vehicle Barrier

Proposed Rock Vehicle Barrier

Proposed Log Vehicle Barrier

#### **Demolition & earthworks**

Existing Tree to be removed Cut and fill balanced Fill and spread from on-site soil



#### Levels and grading

Existing major contours (1m interval)

Existing minor contours (0.2m interval) Proposed major contours (1m interval)

Proposed minor contours (0.2m interval)

+EX 158.00 Existing level in metres

+RL 158.00 Proposed level in metres

Proposed Gradients

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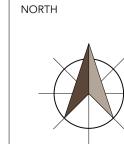
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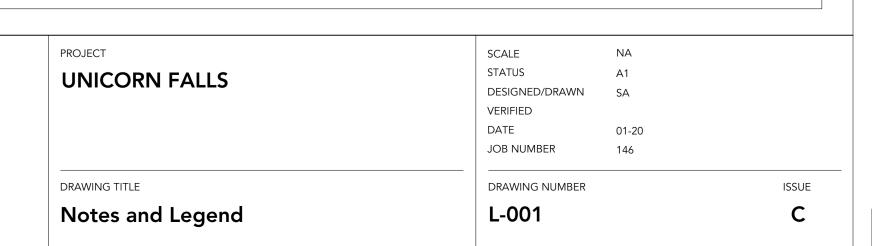
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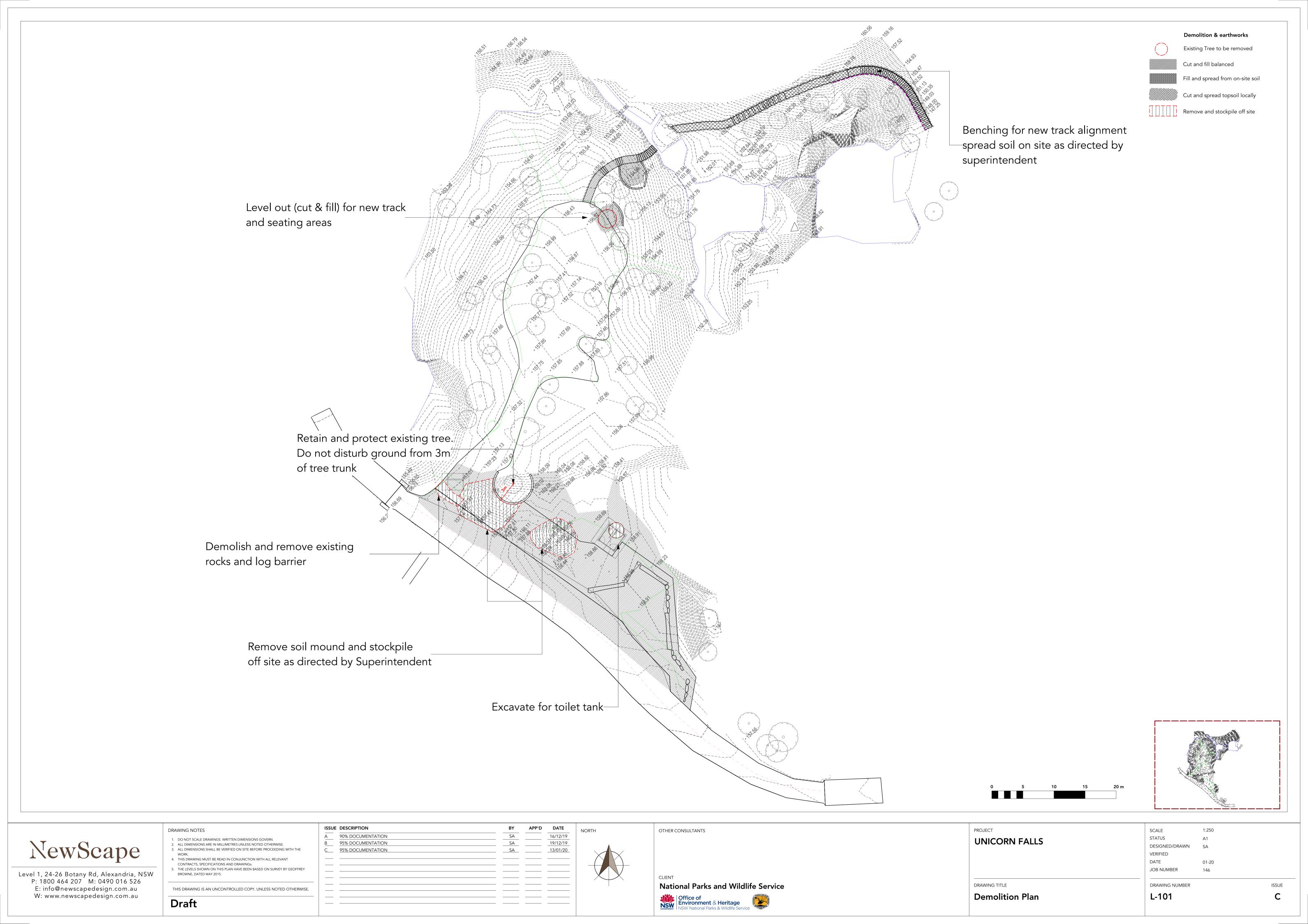




DATE JOB NUMBER

DRAWING TITLE Day Use- Survey

DRAWING NUMBER L-100





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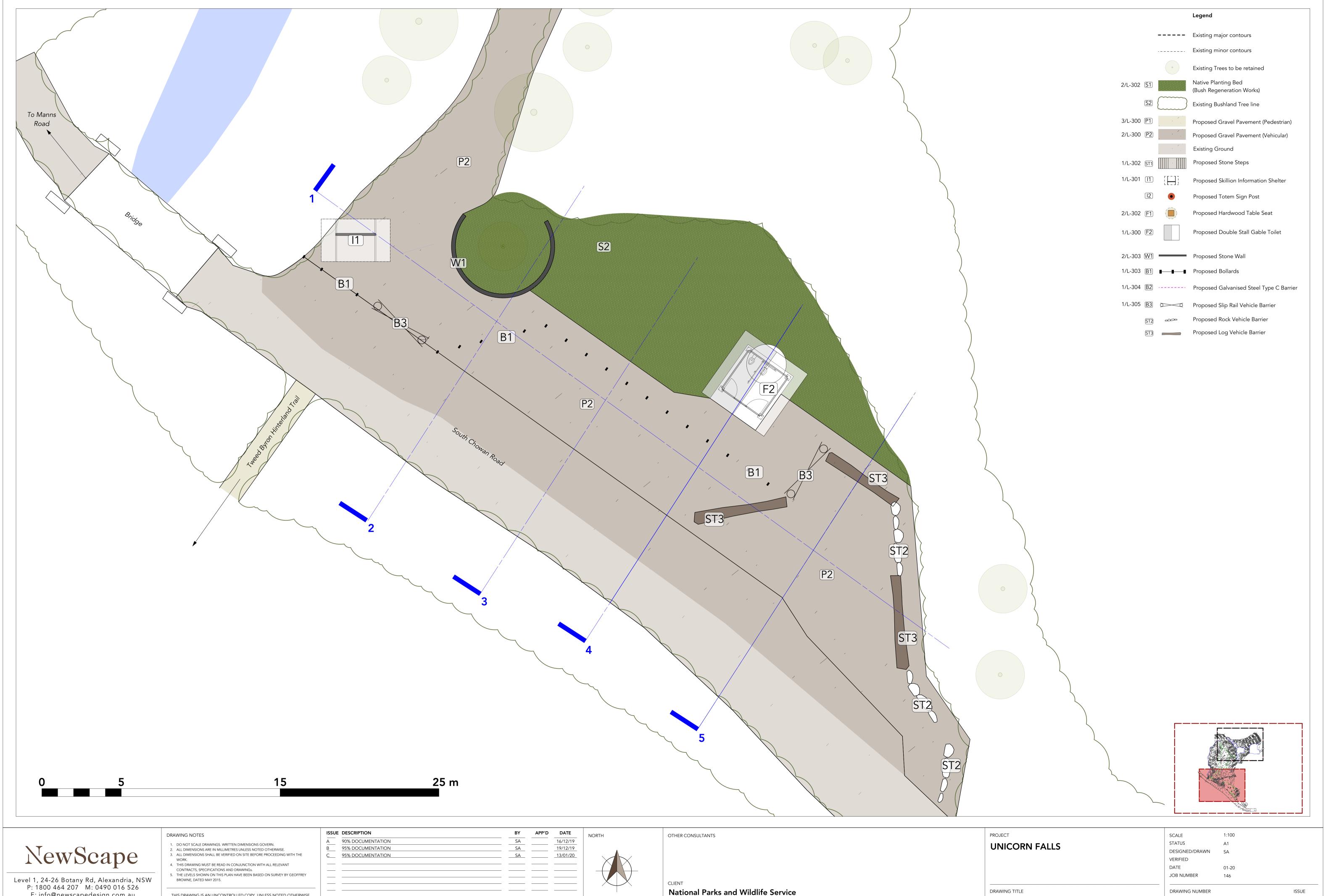
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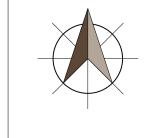
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DRAWING NUMBER L-102

Day Use- GA Plan Overview



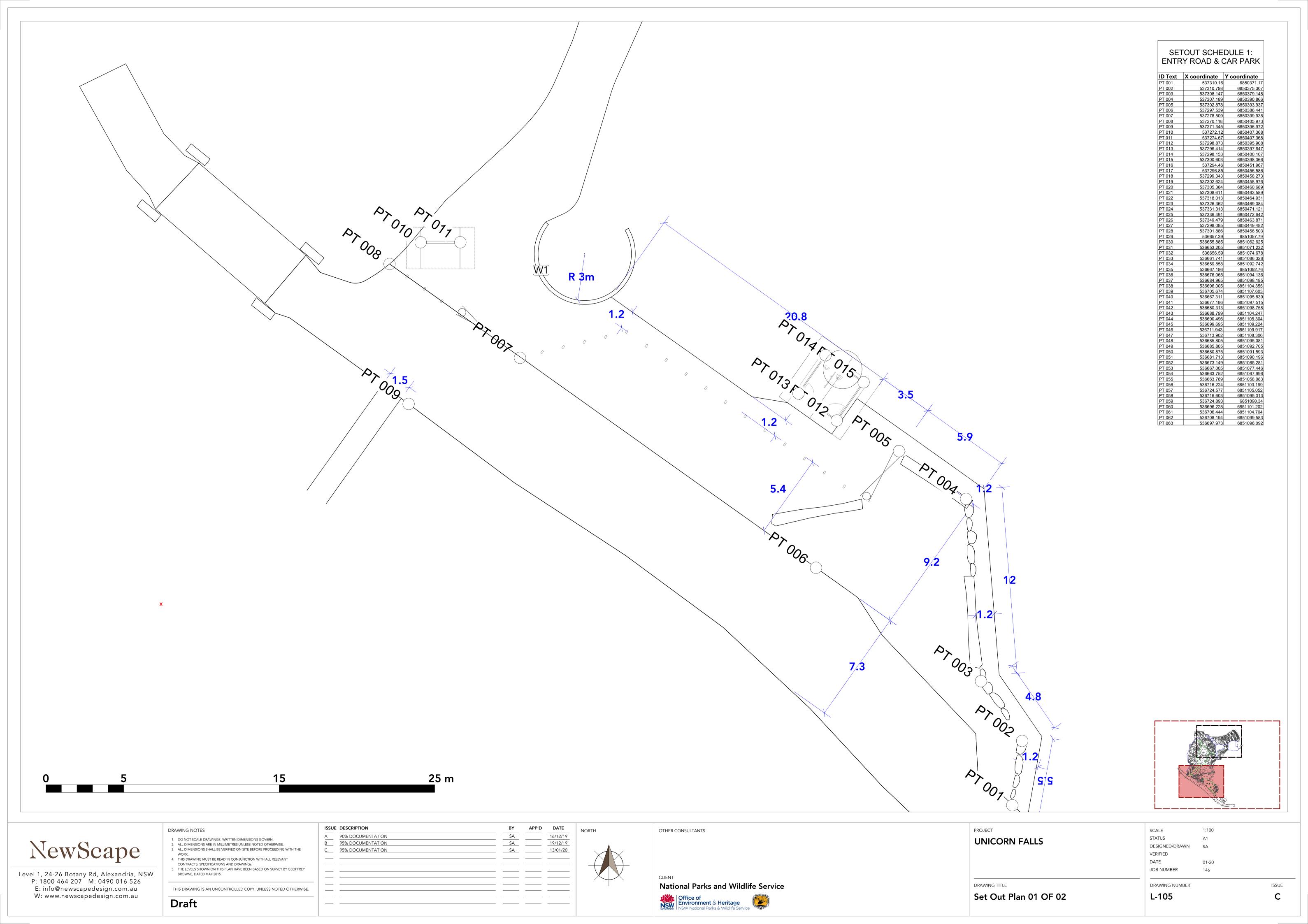
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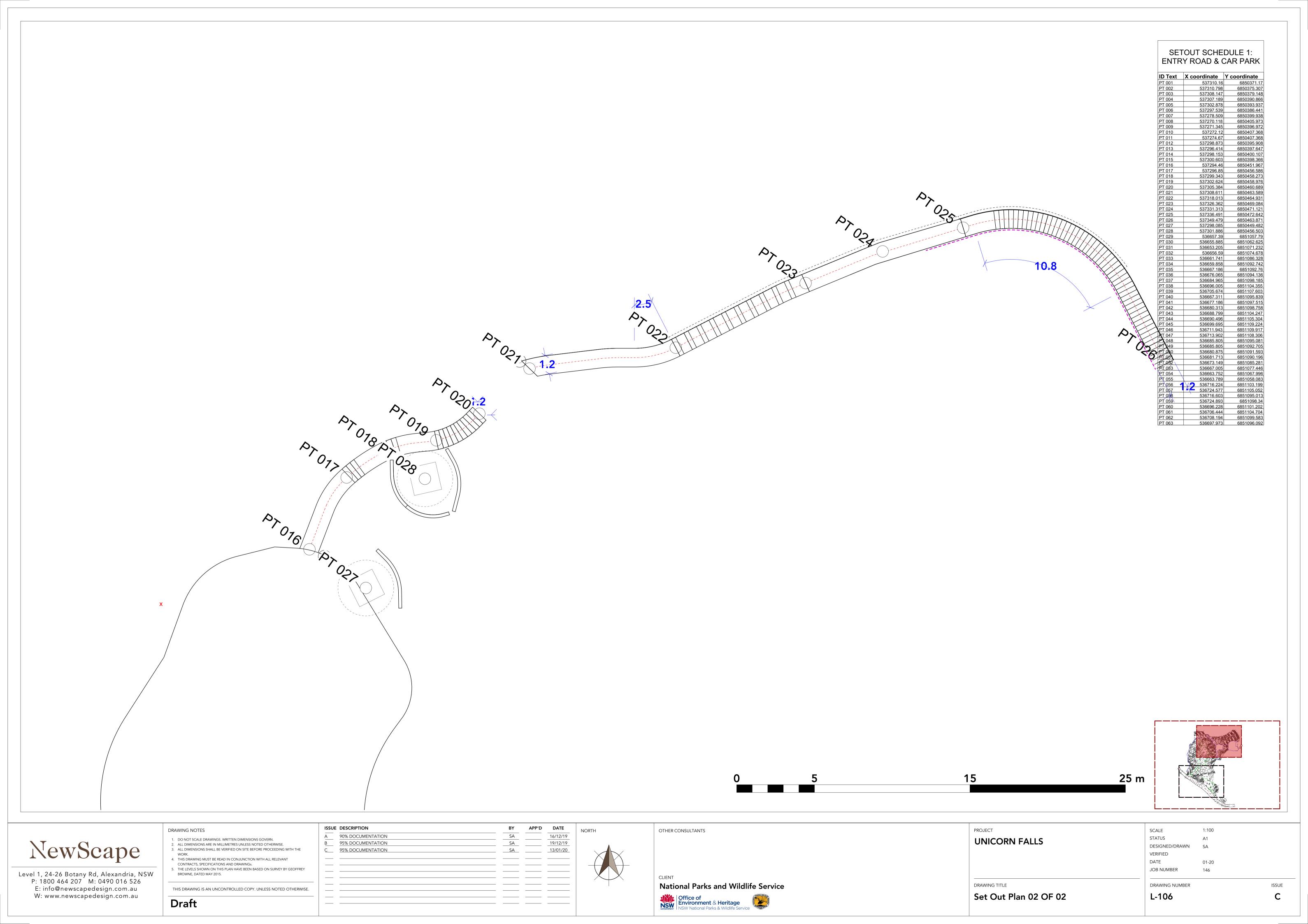


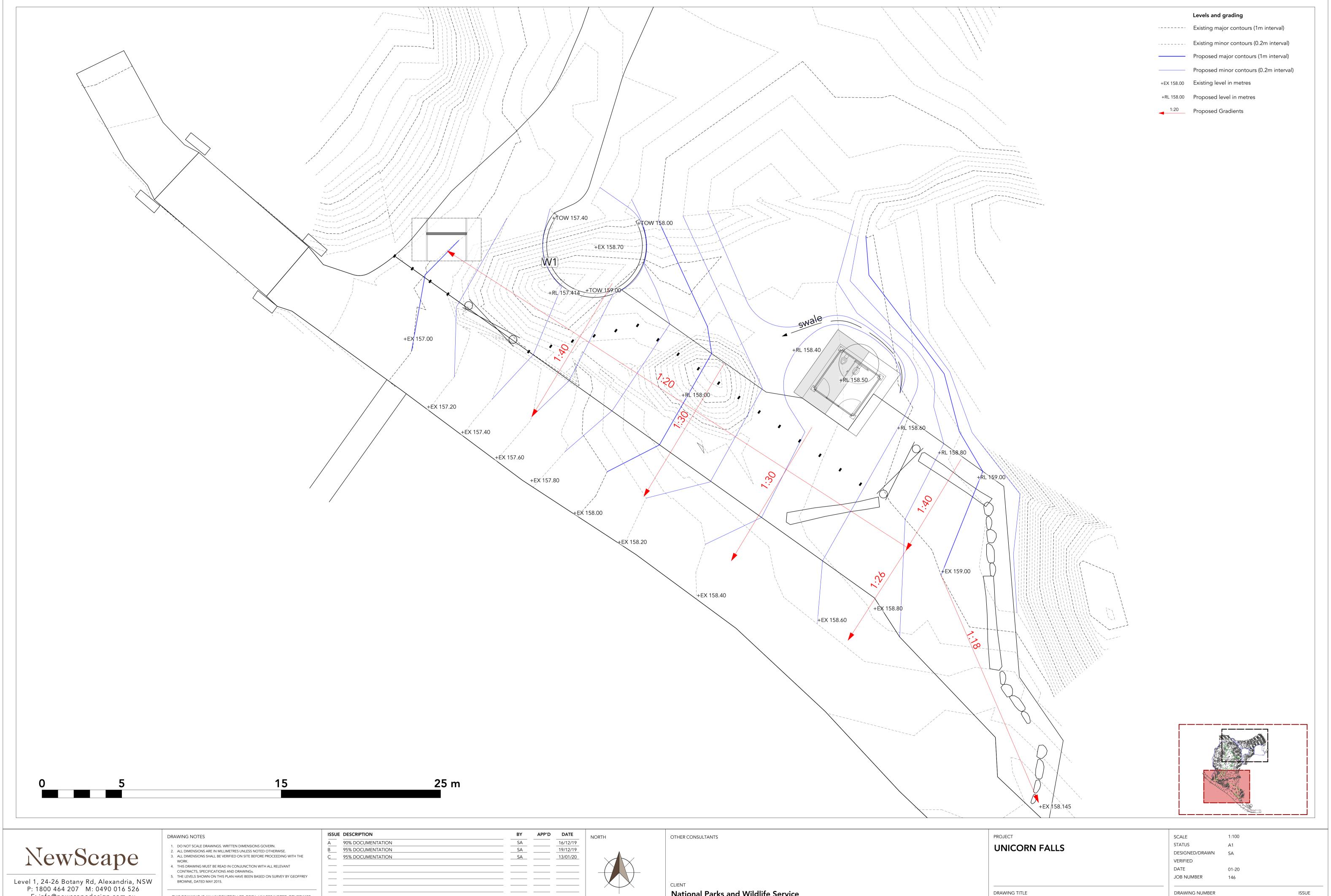
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**GA Plan 01 OF 02** 

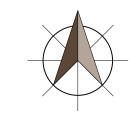








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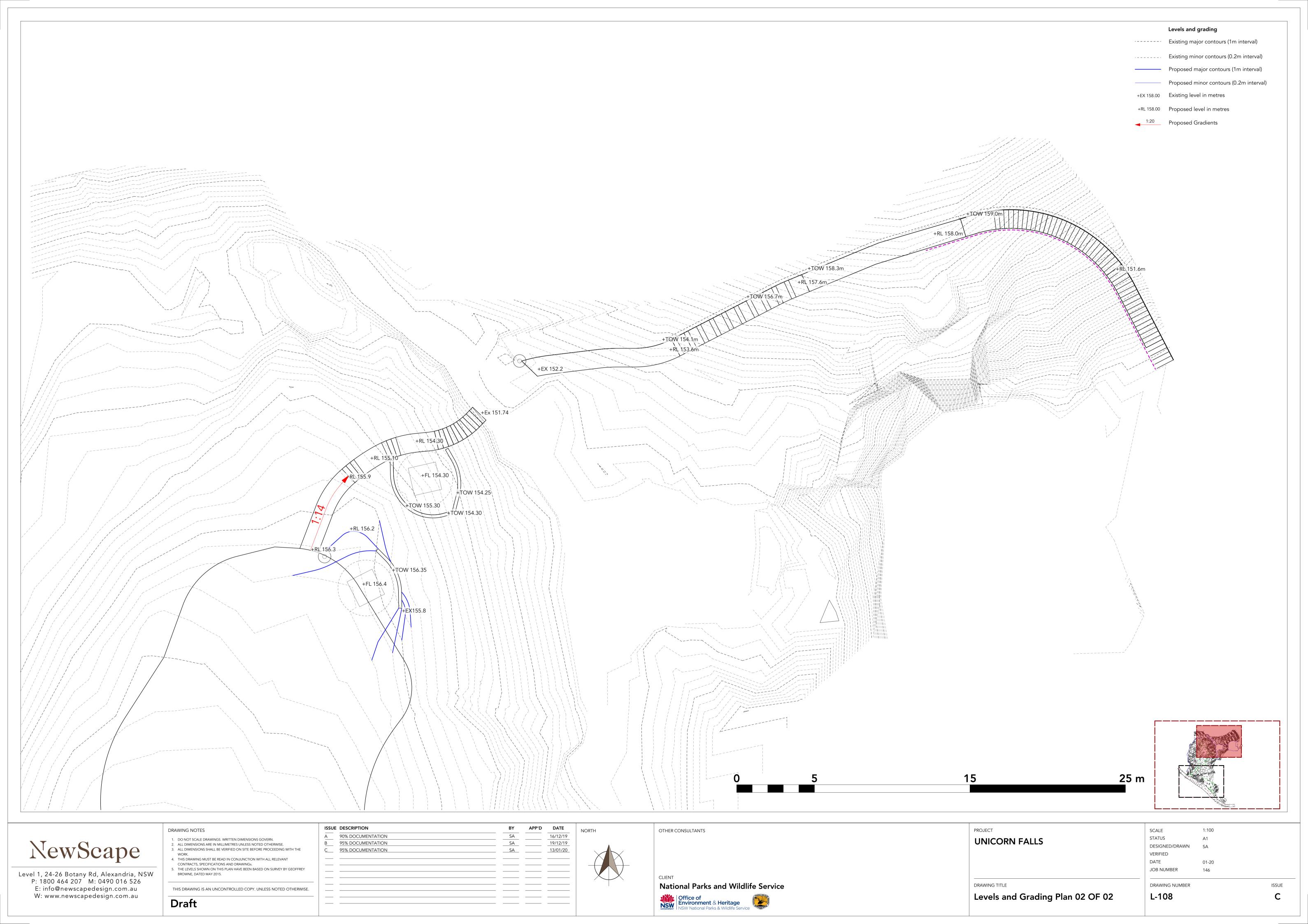


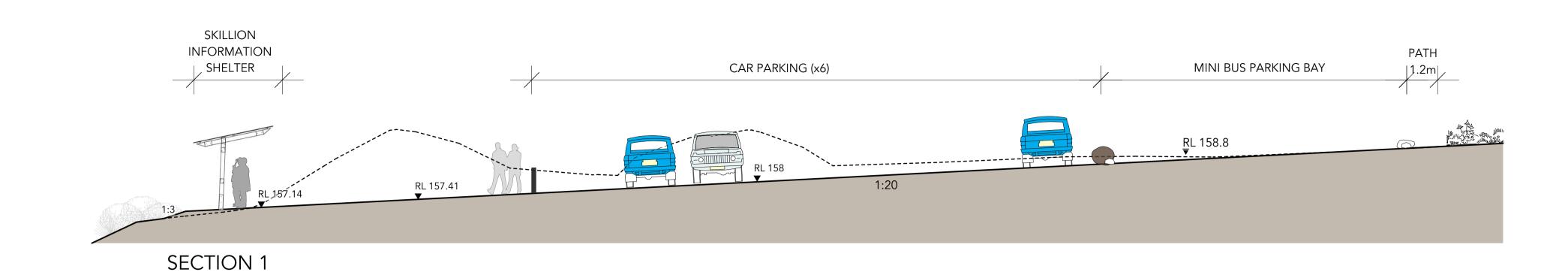
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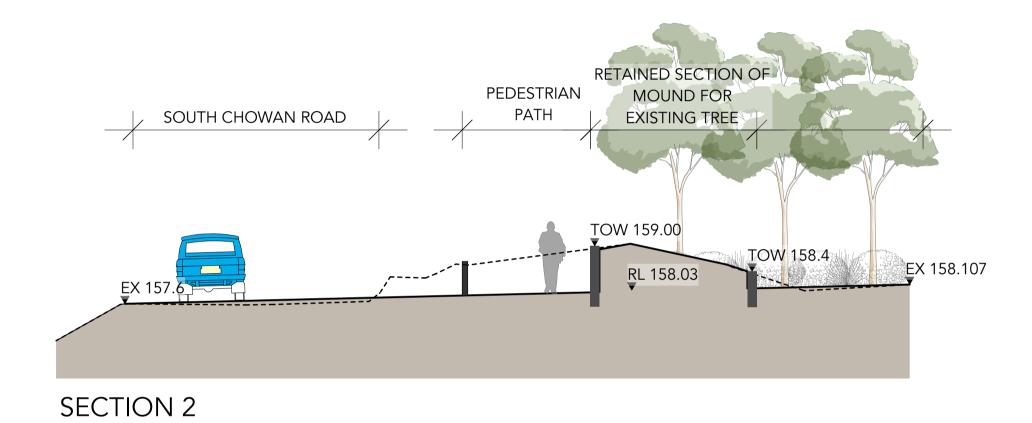
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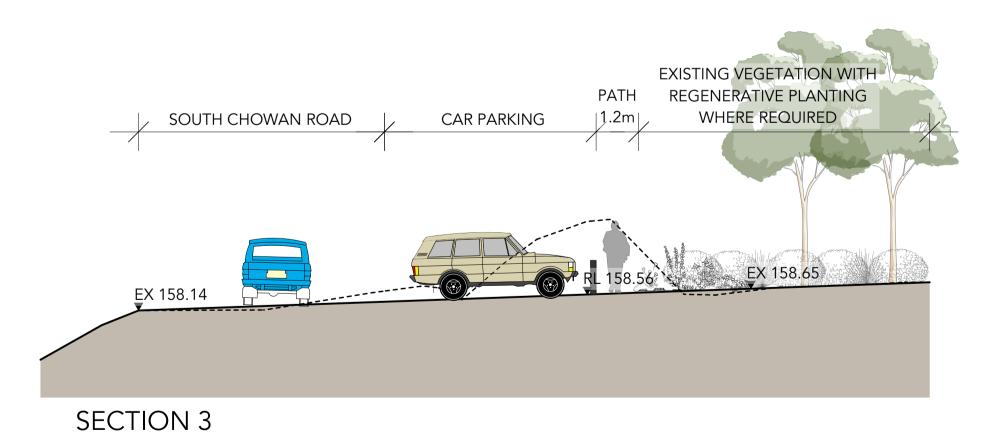
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Levels and Grading Plan 01 OF 02











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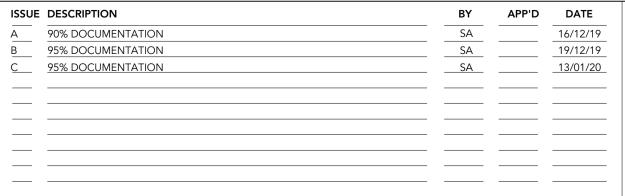
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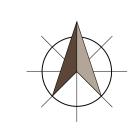
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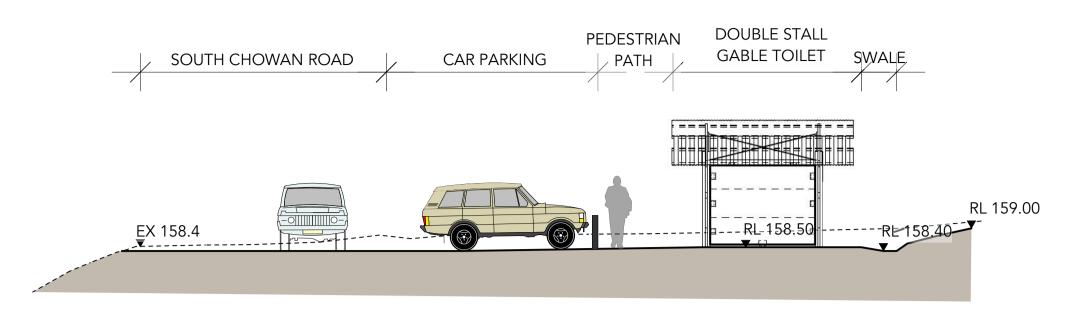




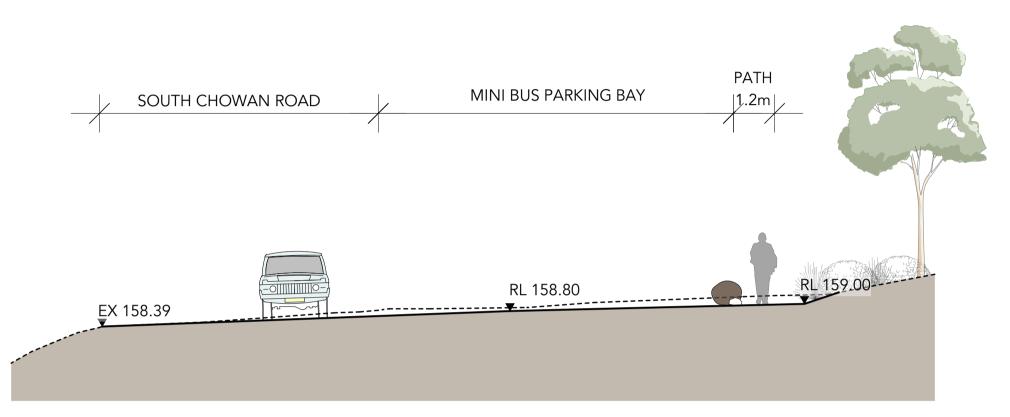


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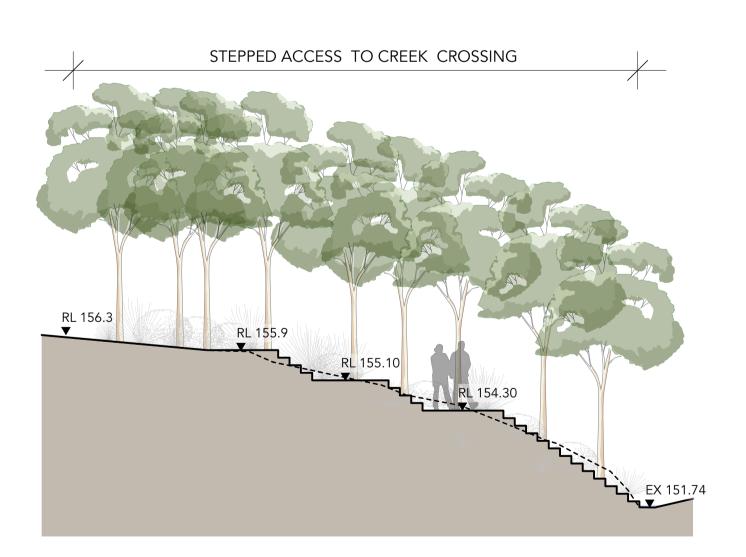
L-109 Sections 1-3



SECTION 4



SECTION 5



SECTION 6



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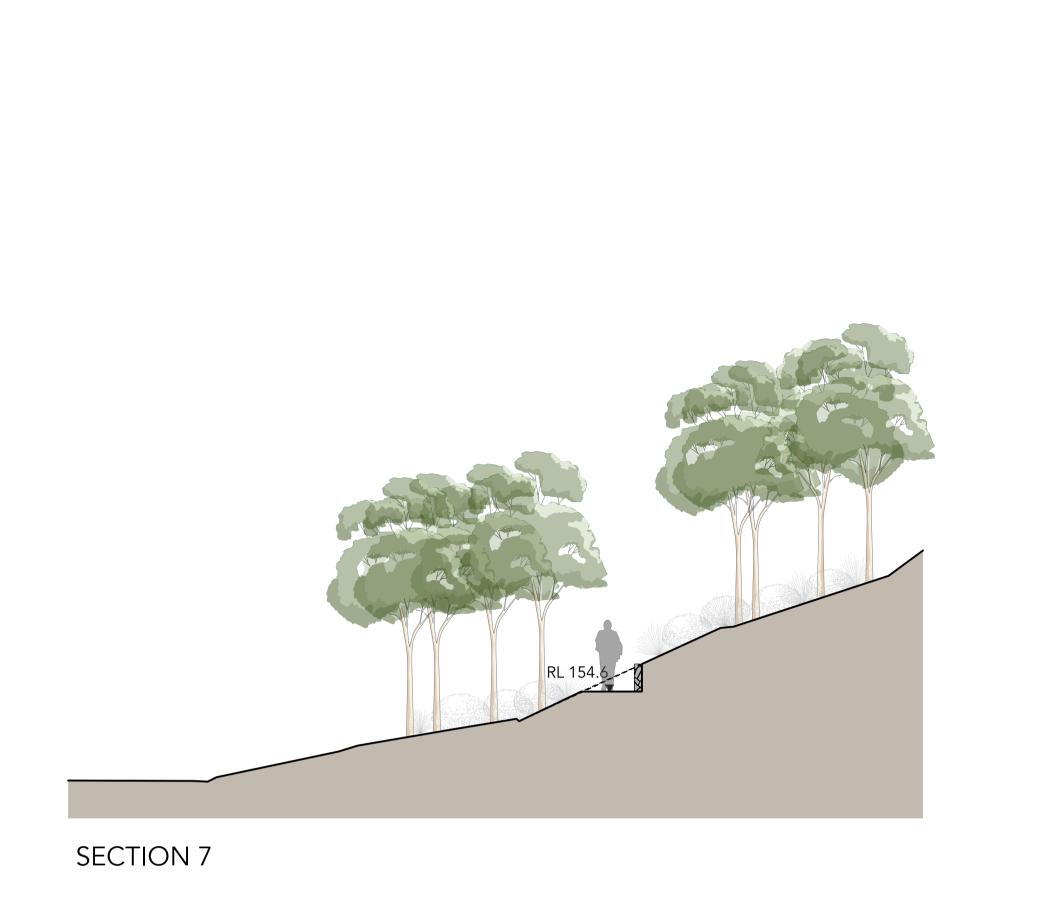
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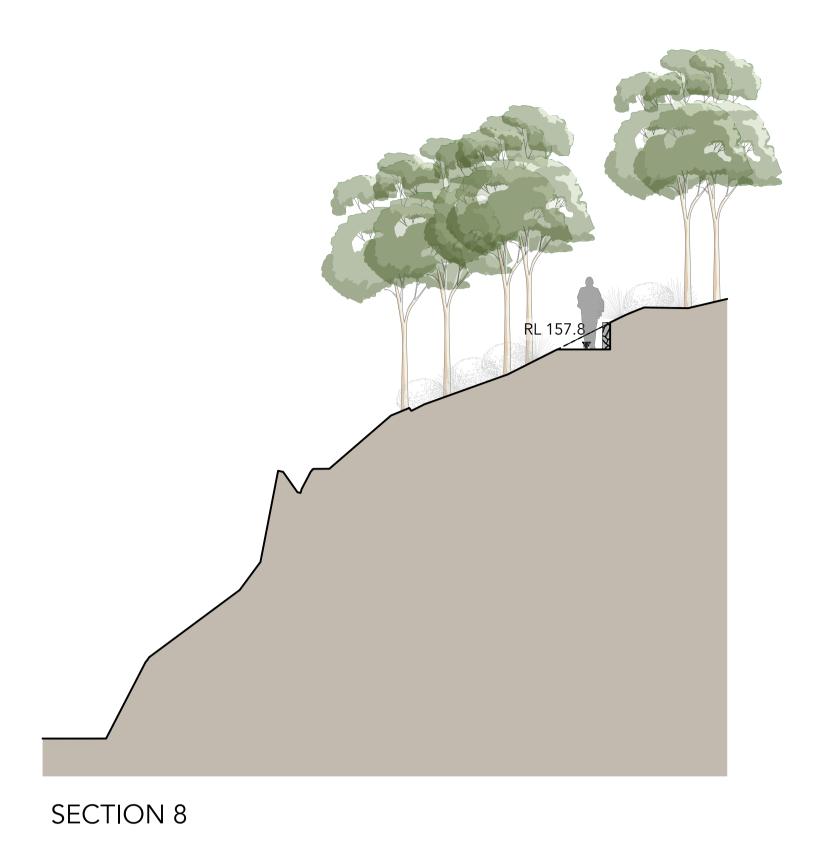
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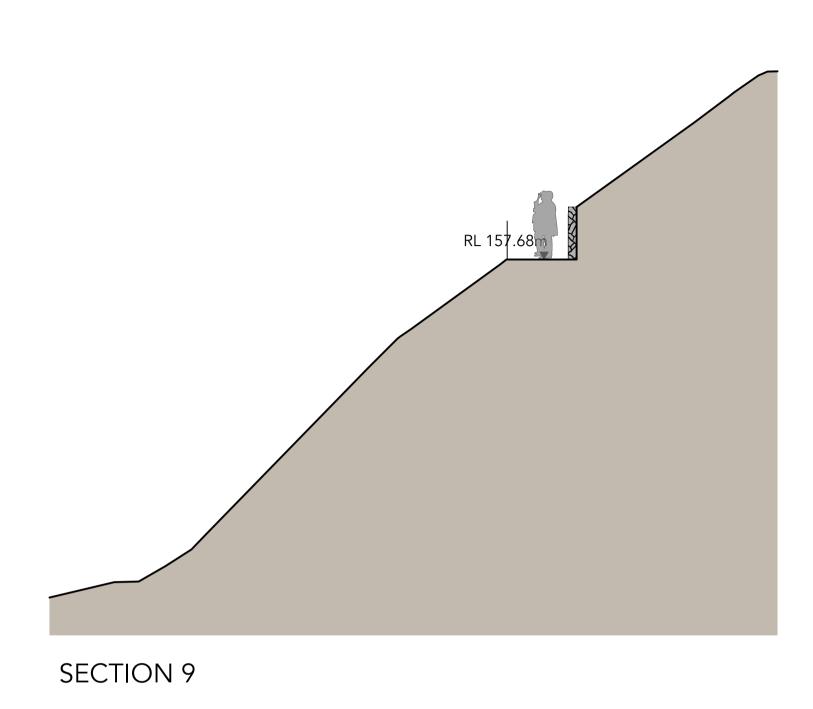


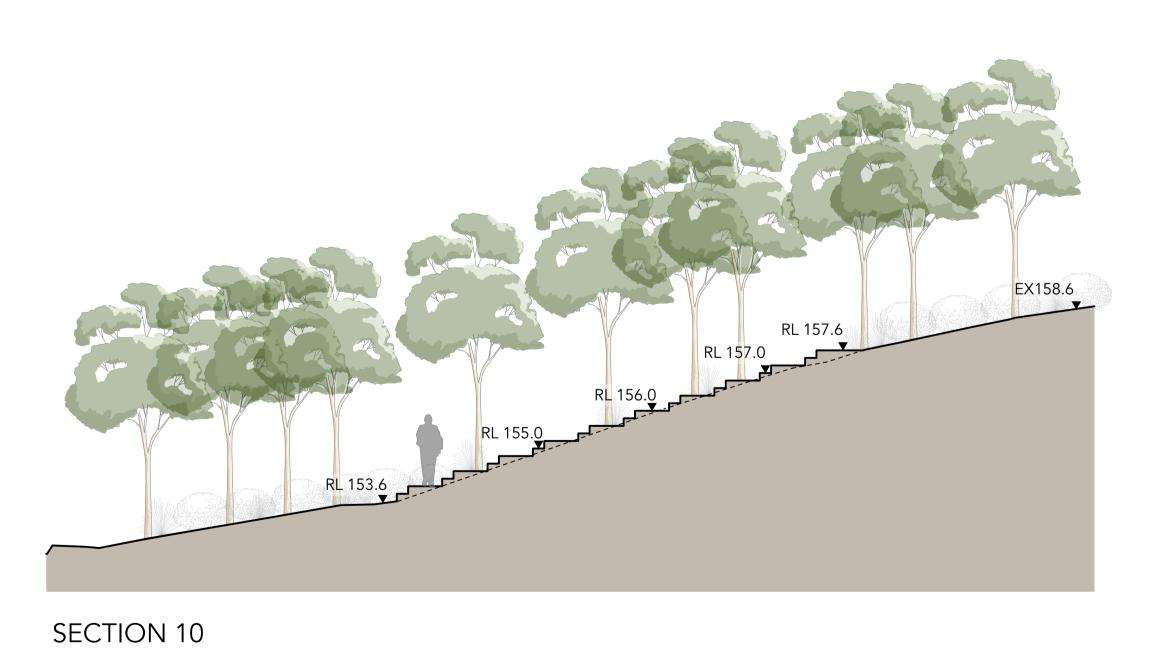


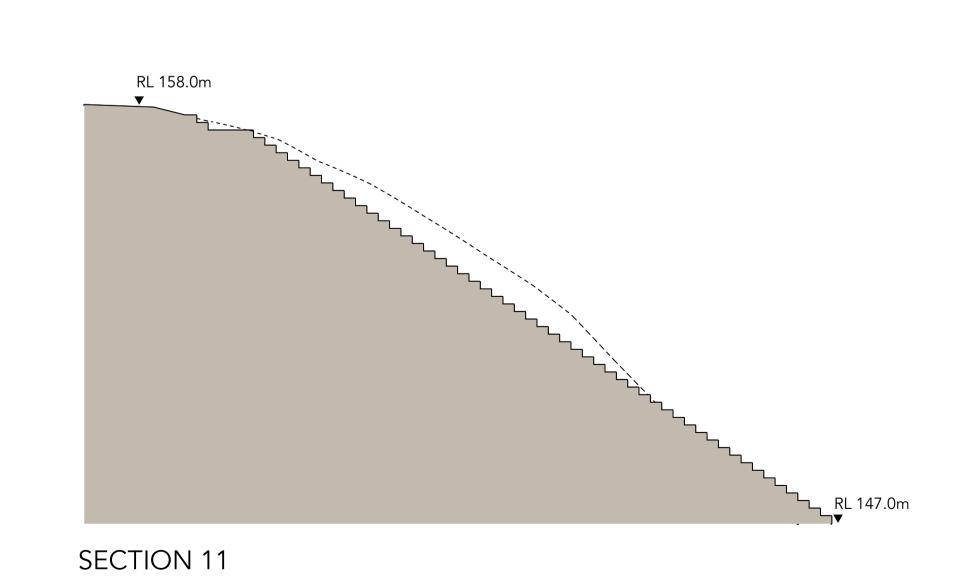
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DRAWING NUMBER		ISSUE
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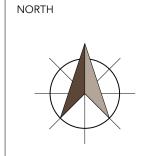
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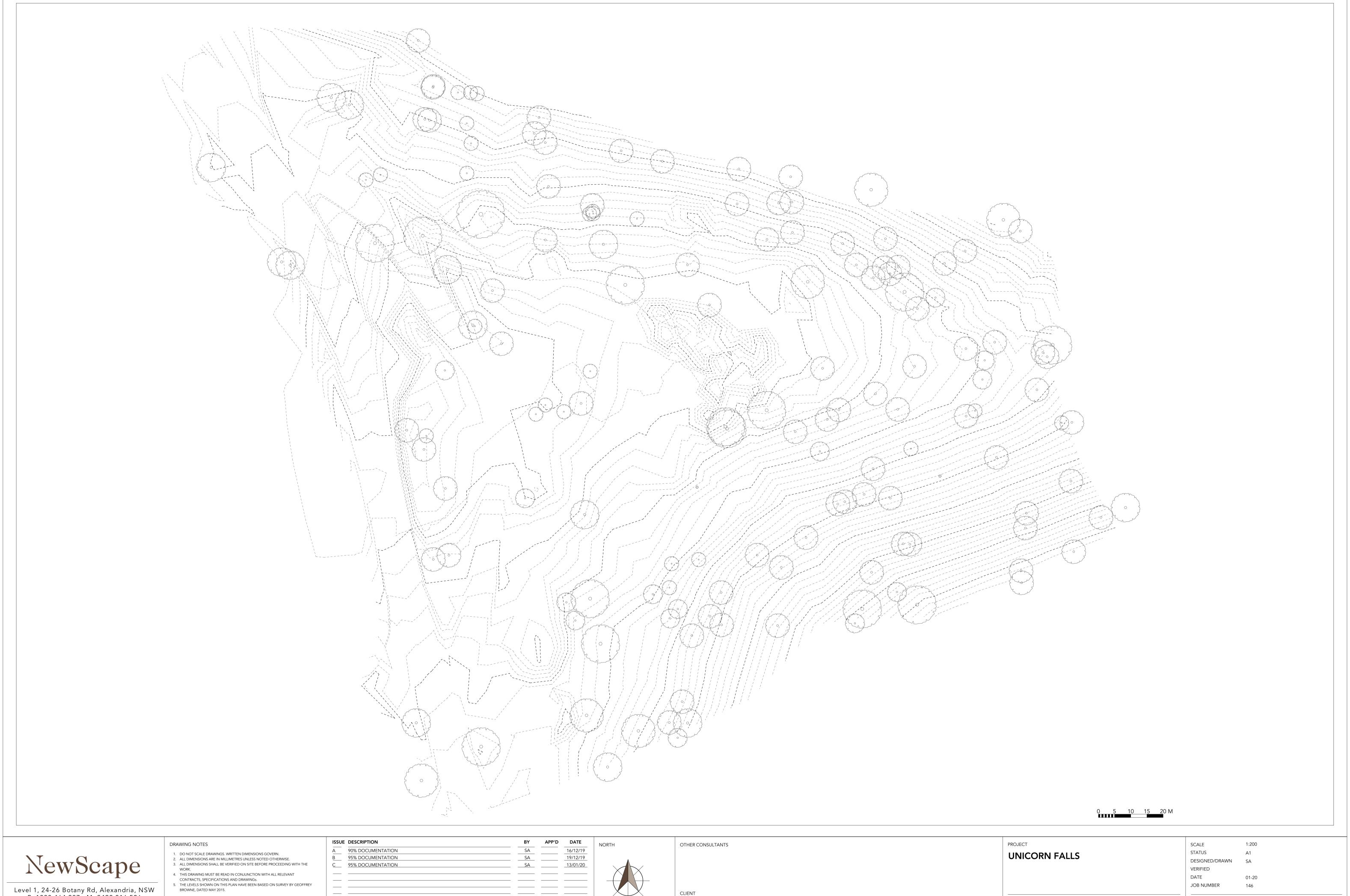
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**UNICORN FALLS** DRAWING TITLE

PROJECT

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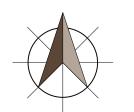
Sections 7-9



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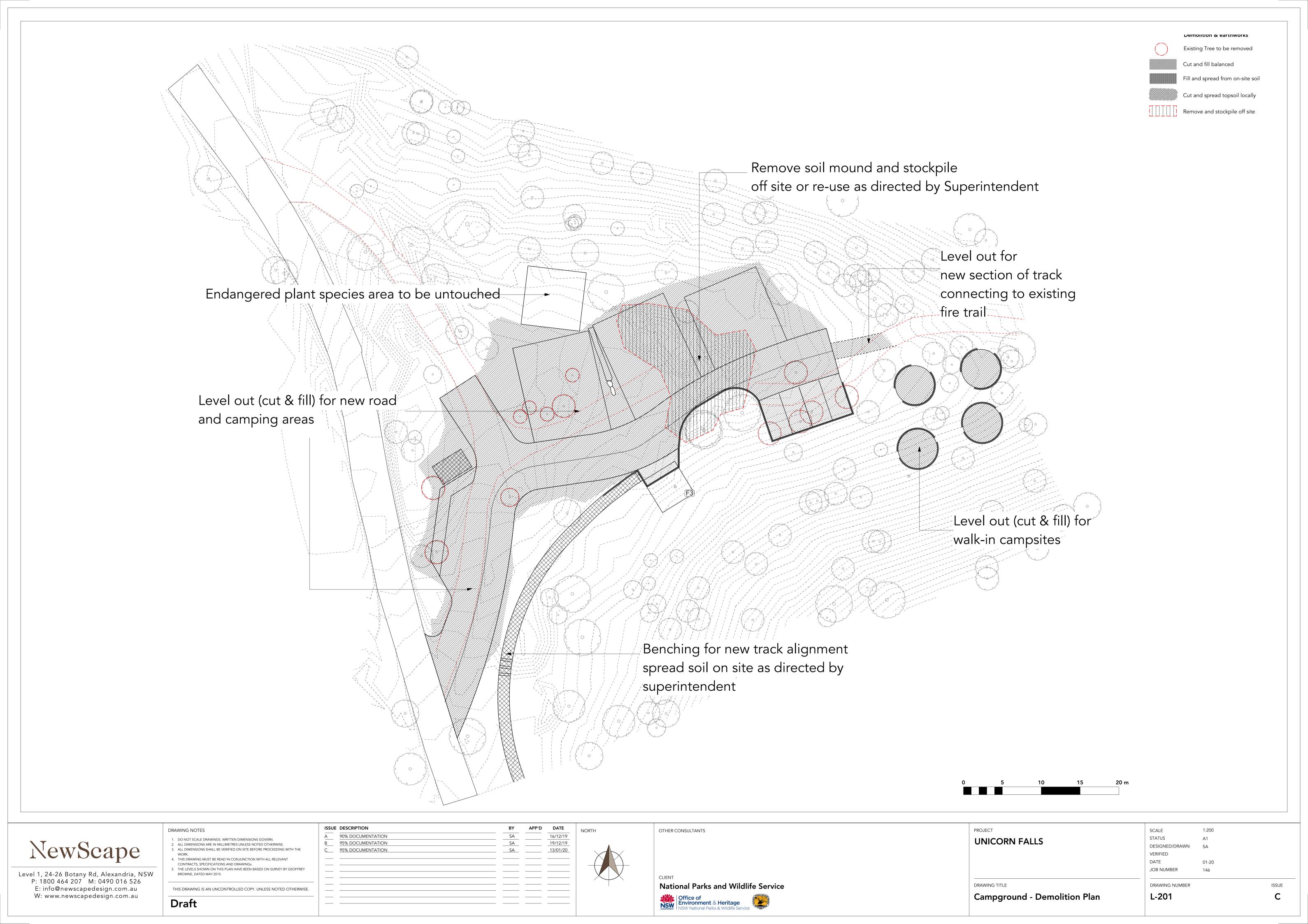
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DATE JOB NUMBER

DRAWING NUMBER

DRAWING TITLE

Campground- Survey





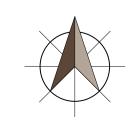
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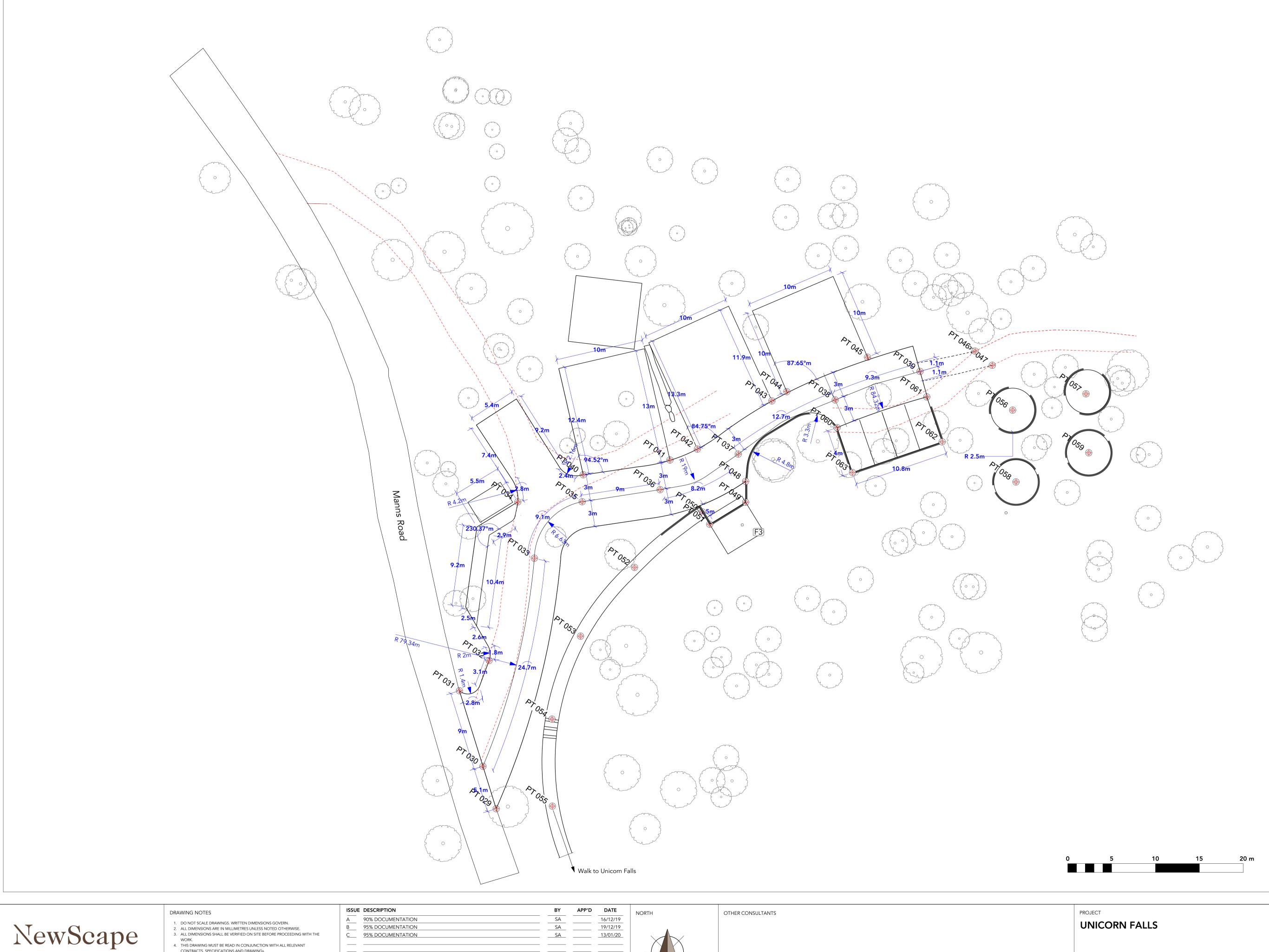


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DATE

DRAWING TITLE Campground- GA Plan L-202

JOB NUMBER DRAWING NUMBER



SETOUT SCHEDULE 1: ENTRY ROAD & CAR PARK ID Text X coordinate Y coordinate

ID Text	X coordinate	Y coordinate
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PT 002	537310.798	6850375.307
PT 003	537308.147	6850379.148
PT 004	537307.189	6850390.866
PT 005	537302.878	6850393.937
PT 006	537297.539	6850386.441
PT 007	537278.509	6850399.938
PT 008		
	537270.118	6850405.973
PT 009	537271.345	6850396.972
PT 010	537272.12	6850407.368
PT 011	537274.67	6850407.368
PT 012	537298.873	6850395.908
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PT 033	536661.741	6851086.328
PT 034	536659.858	6851092.742
PT 035	536667.186	6851092.76
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PT 037	536684.965	6851098.185
PT 038	536696.005	6851104.355
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PT 062	536708.194	6851099.583
PT 063	536697.973	6851096.092
		3331000.002

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BROWNE, DATED MAY 2015.





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DRAWING NUMBER L-203

DRAWING TITLE

Campground - Set Out Plan



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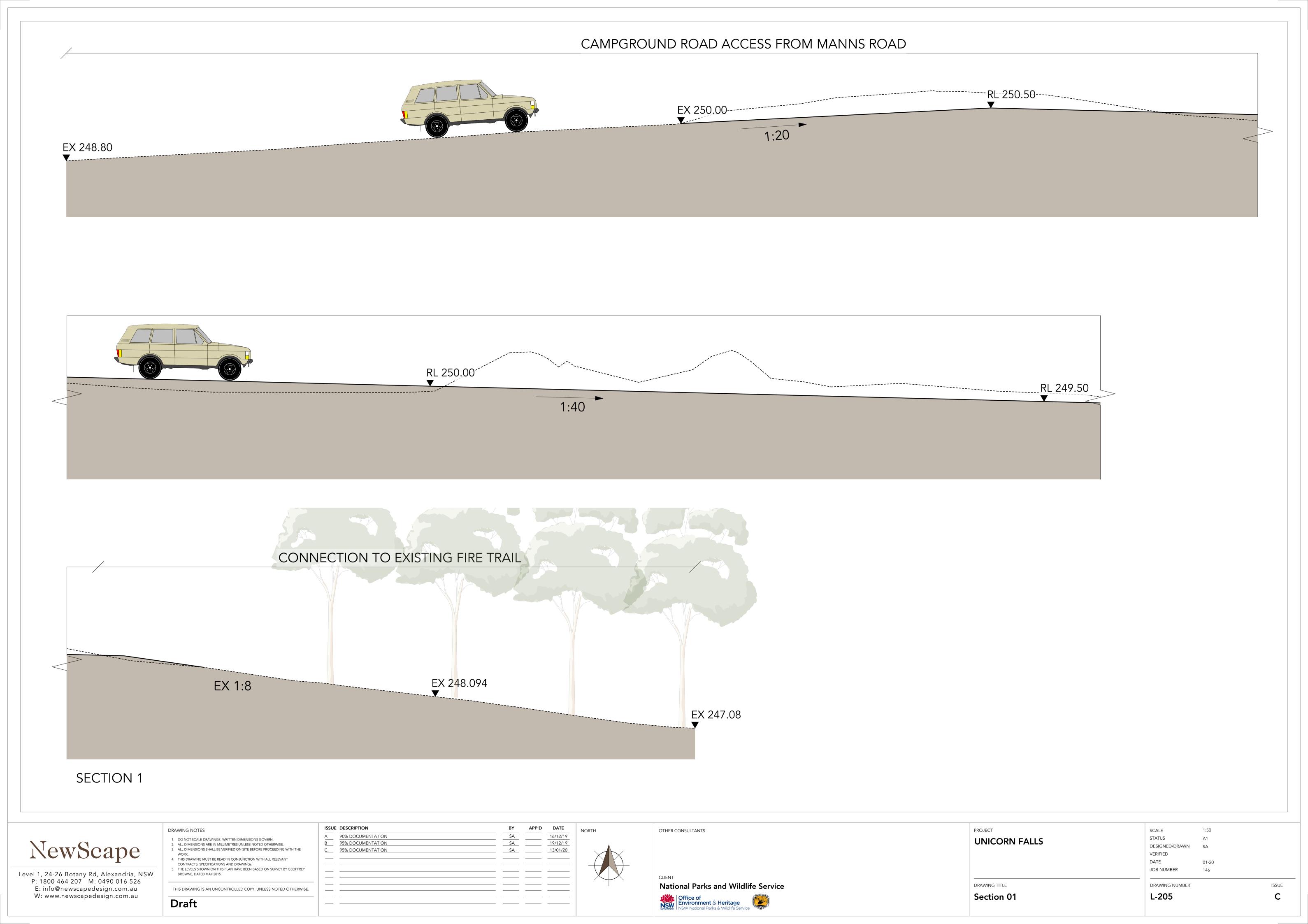
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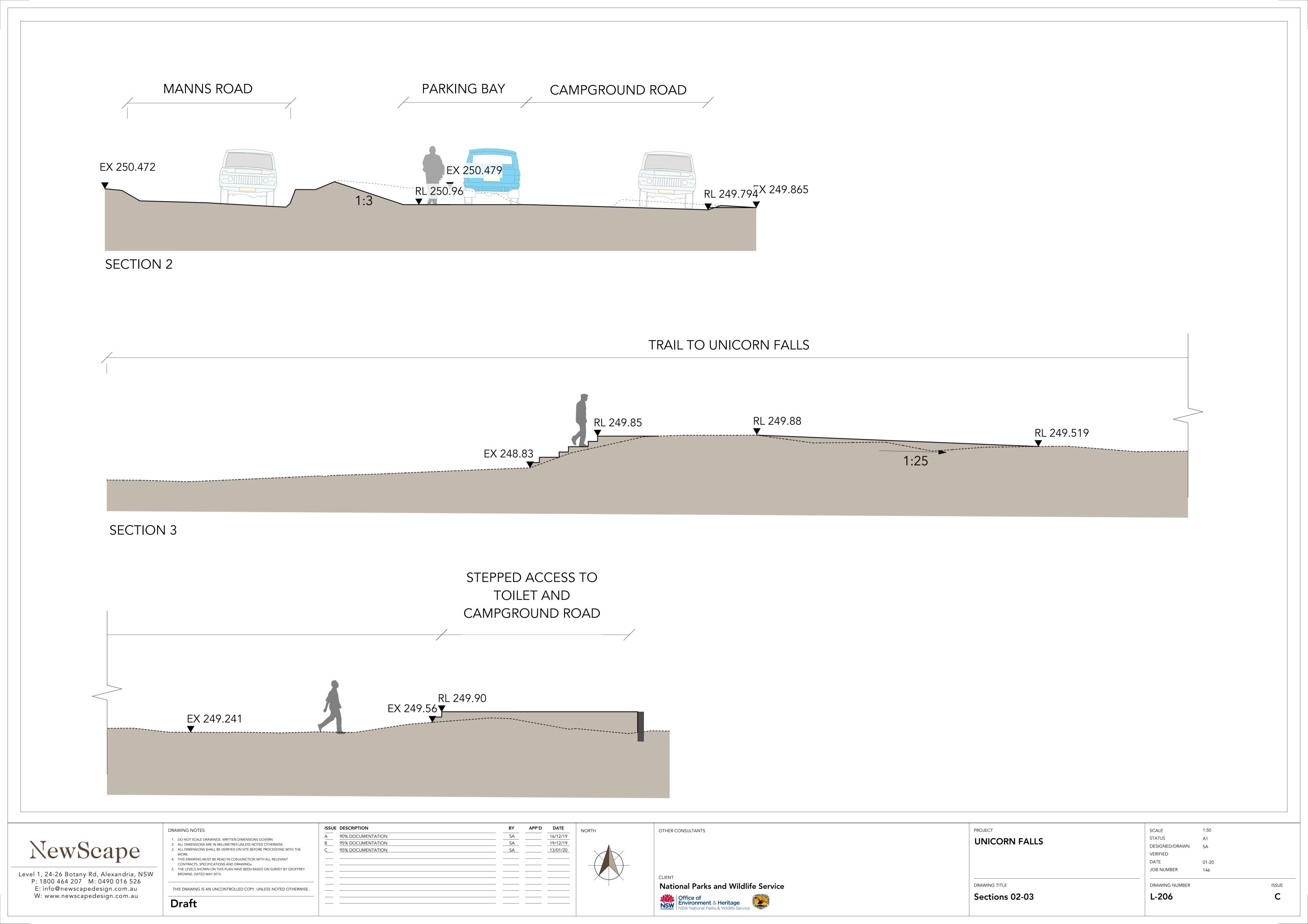


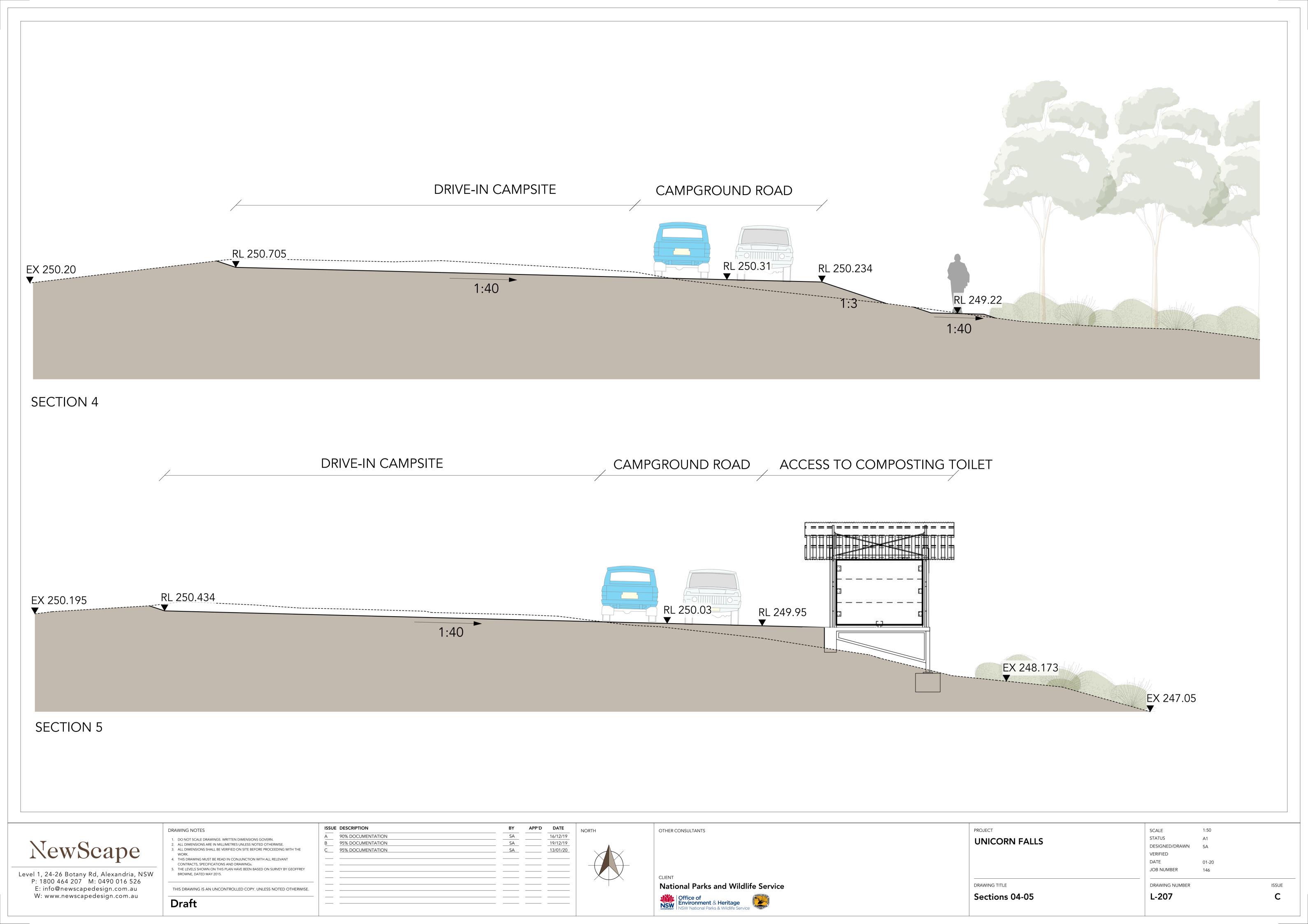
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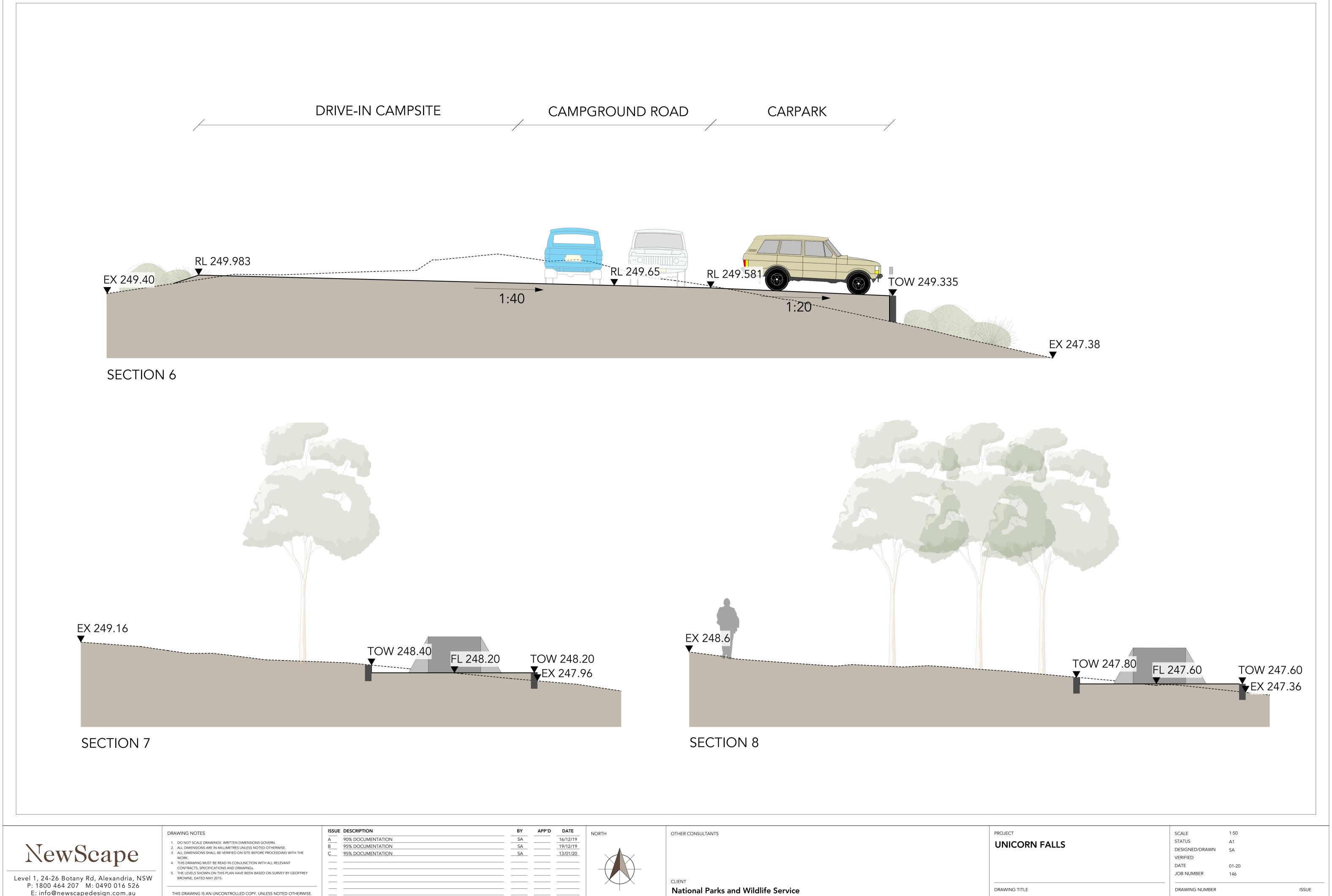
DRAWING TITLE Campground - Levels and Grading

DRAWING NUMBER L-204

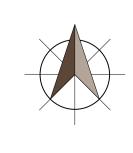






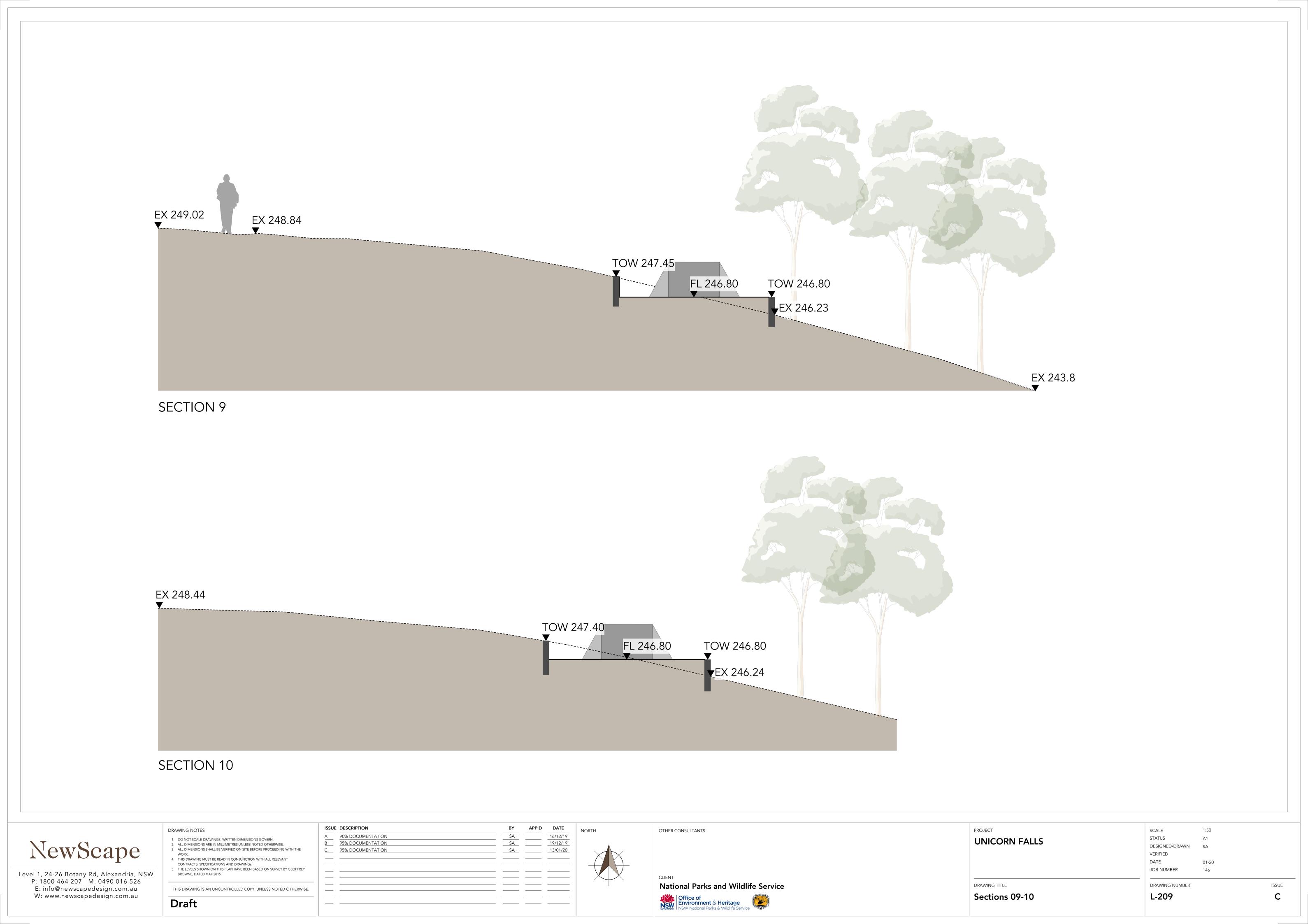


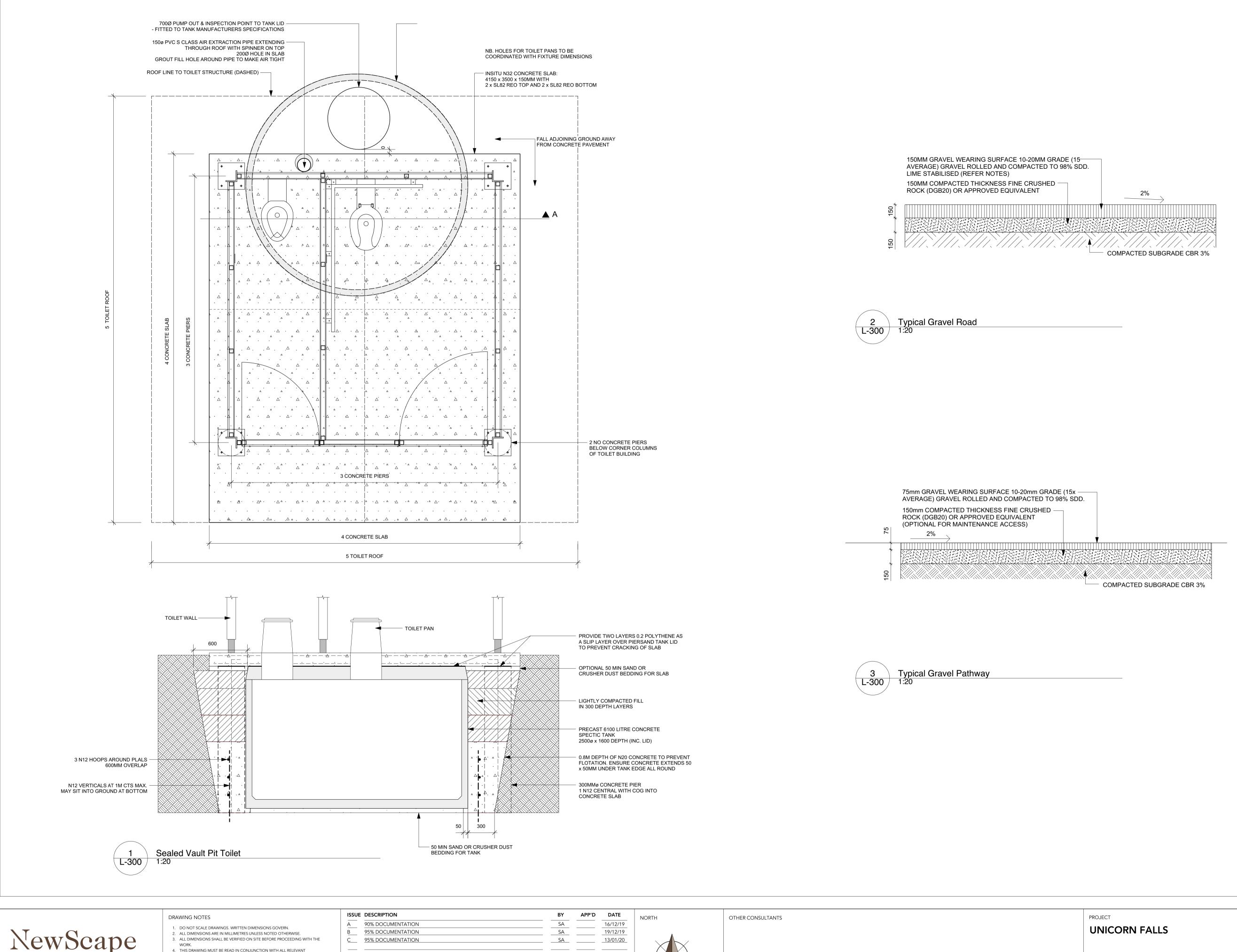
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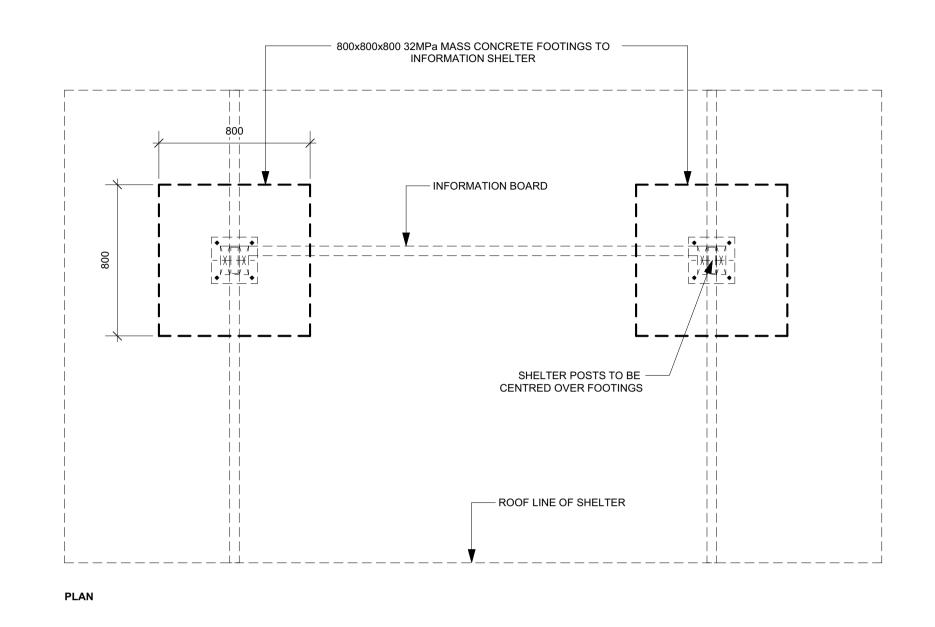


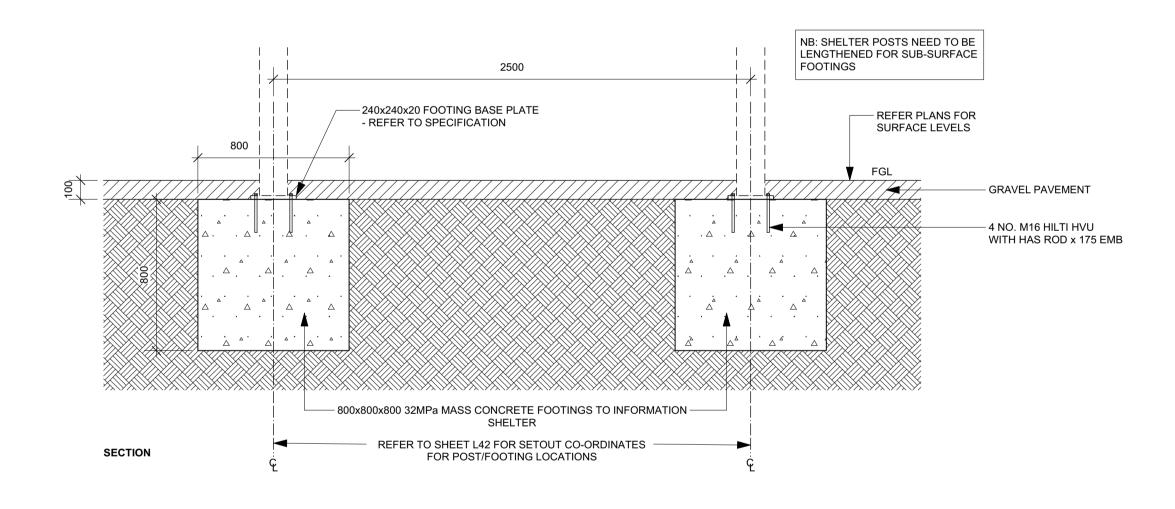
L-208 Sections 06-08





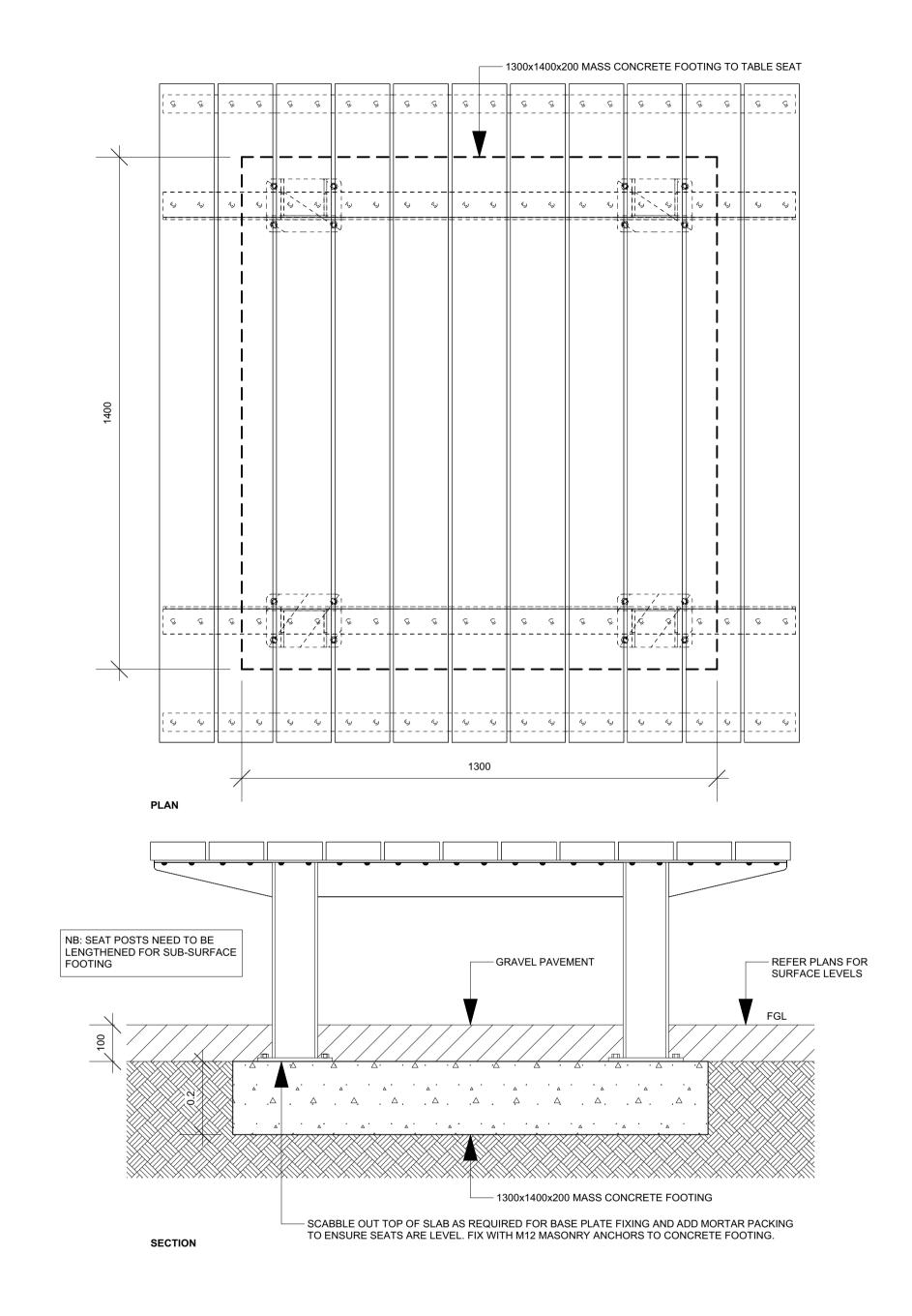
SCALE AS SHOWN STATUS NewScape DESIGNED/DRAWN VERIFIED 4. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT DATE 01-20 CONTRACTS, SPECIFICATIONS AND DRAWINGs. 5. THE LEVELS SHOWN ON THIS PLAN HAVE BEEN BASED ON SURVEY BY GEOFFREY JOB NUMBER Level 1, 24-26 Botany Rd, Alexandria, NSW BROWNE, DATED MAY 2015. P: 1800 464 207 M: 0490 016 526 National Parks and Wildlife Service DRAWING TITLE DRAWING NUMBER E: info@newscapedesign.com.au THIS DRAWING IS AN UNCONTROLLED COPY. UNLESS NOTED OTHERWISE. **Details Sheet 01** L-300 W: www.newscapedesign.com.au Office of Environment & Heritage
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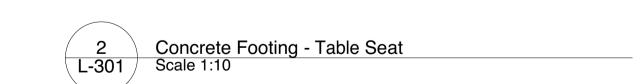




ISSUE DESCRIPTION

Concrete Footings - Information Shelter
Scale 1:20





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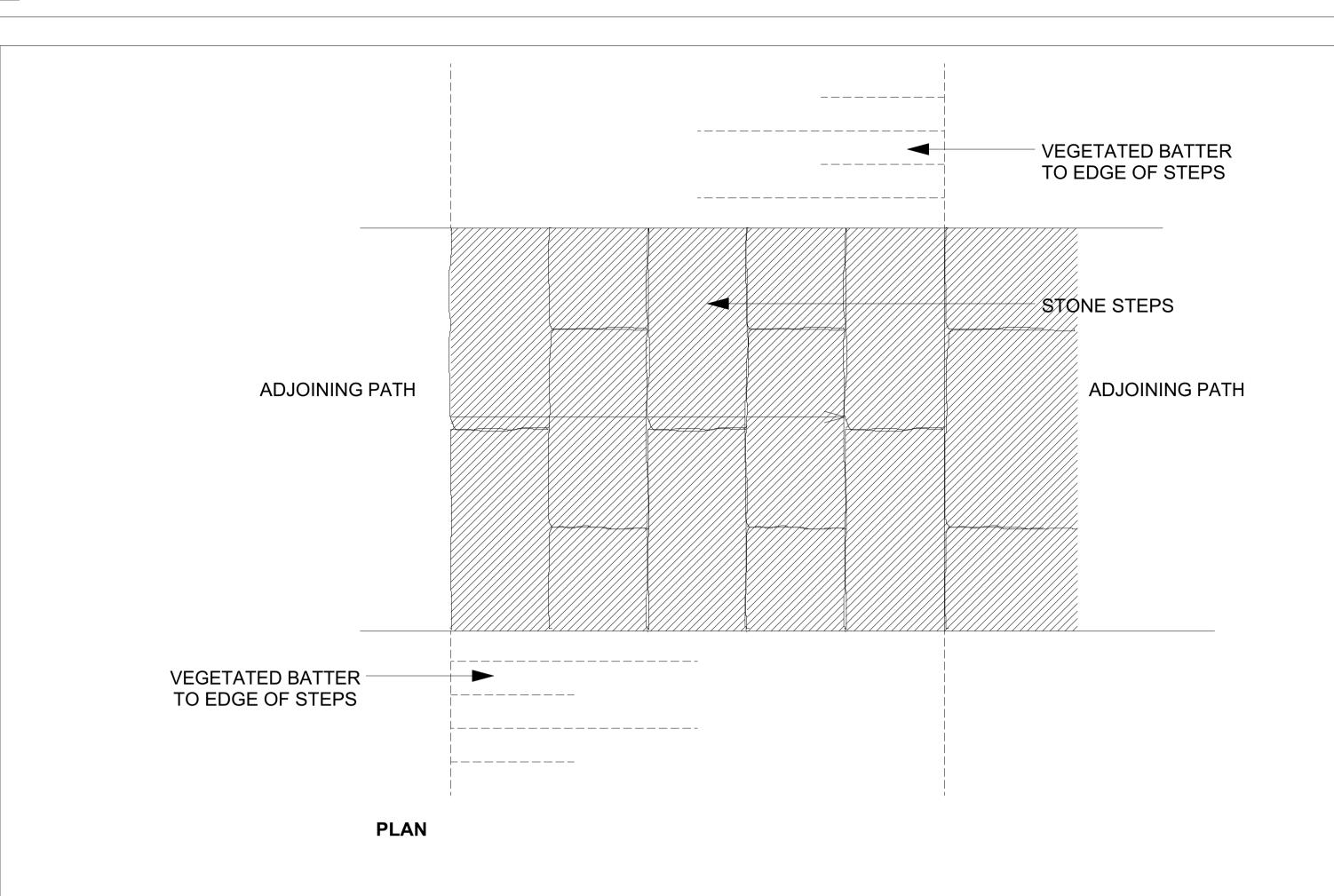
OTHER CONSULTANTS National Parks and Wildlife Service

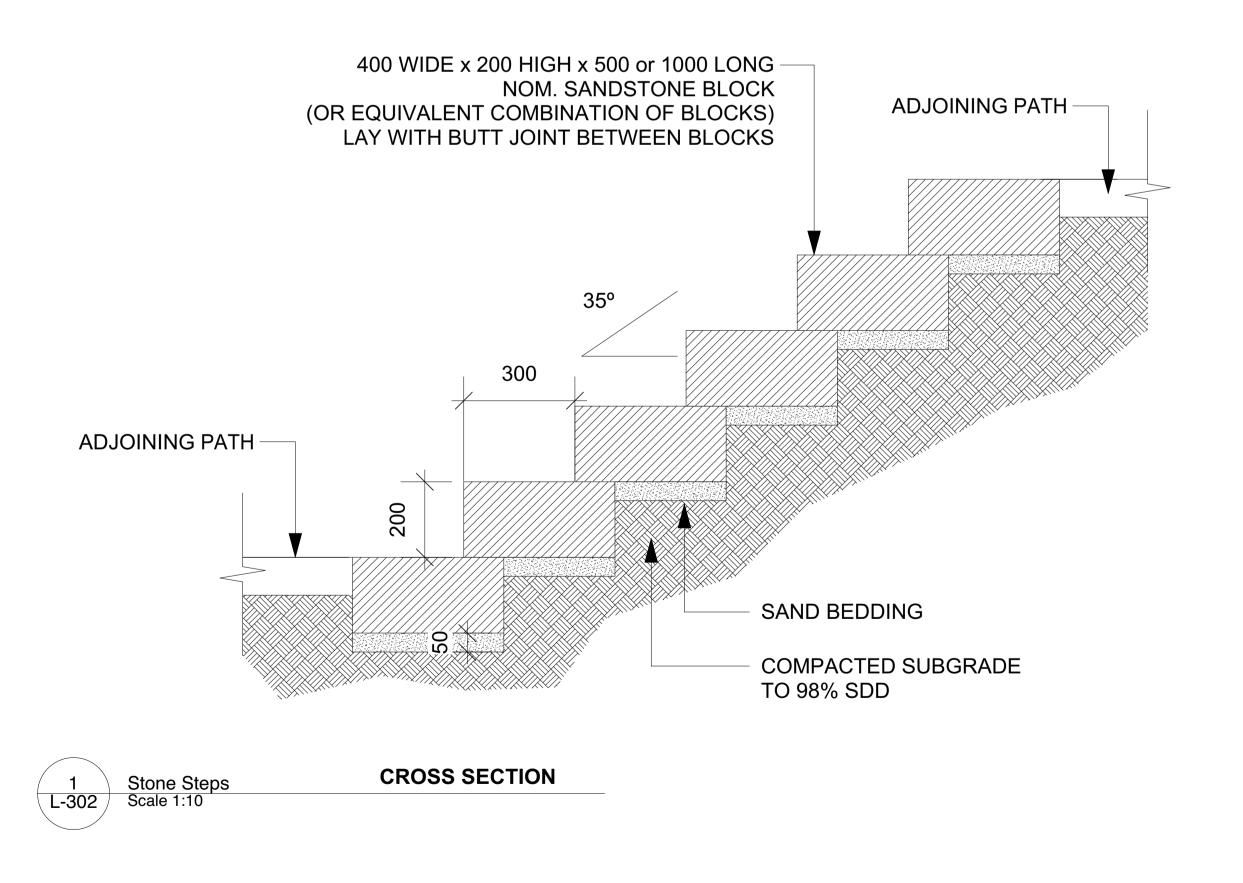
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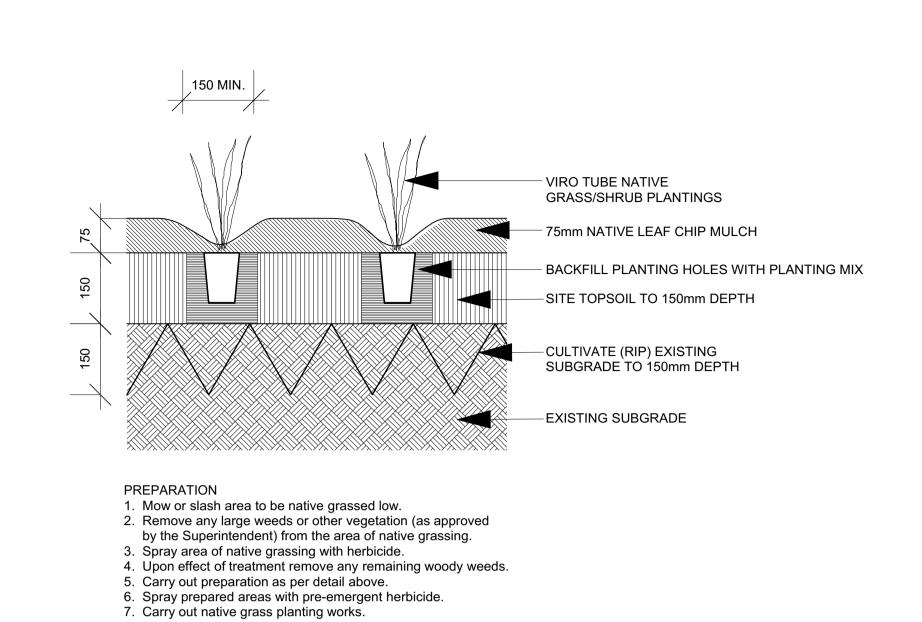
PROJECT SCALE **AS SHOWN** STATUS **UNICORN FALLS** DESIGNED/DRAWN VERIFIED DATE 01-20 JOB NUMBER DRAWING TITLE DRAWING NUMBER

L-301

Details Sheet 02











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 ISSUE
 DESCRIPTION
 BY
 APP'D
 DATE

 A
 90% DOCUMENTATION
 SA
 16/12/19

 B
 95% DOCUMENTATION
 SA
 13/01/20

 C
 95% DOCUMENTATION
 SA
 13/01/20



CLIENT

National Parks and Wildlife Service

Office of Environment & Heritage NSW National Parks & Wildlife Service

PROJECT

UNICORN FALLS

SCALE AS SHOWN

STATUS A1

DESIGNED/DRAWN SA

VERIFIED

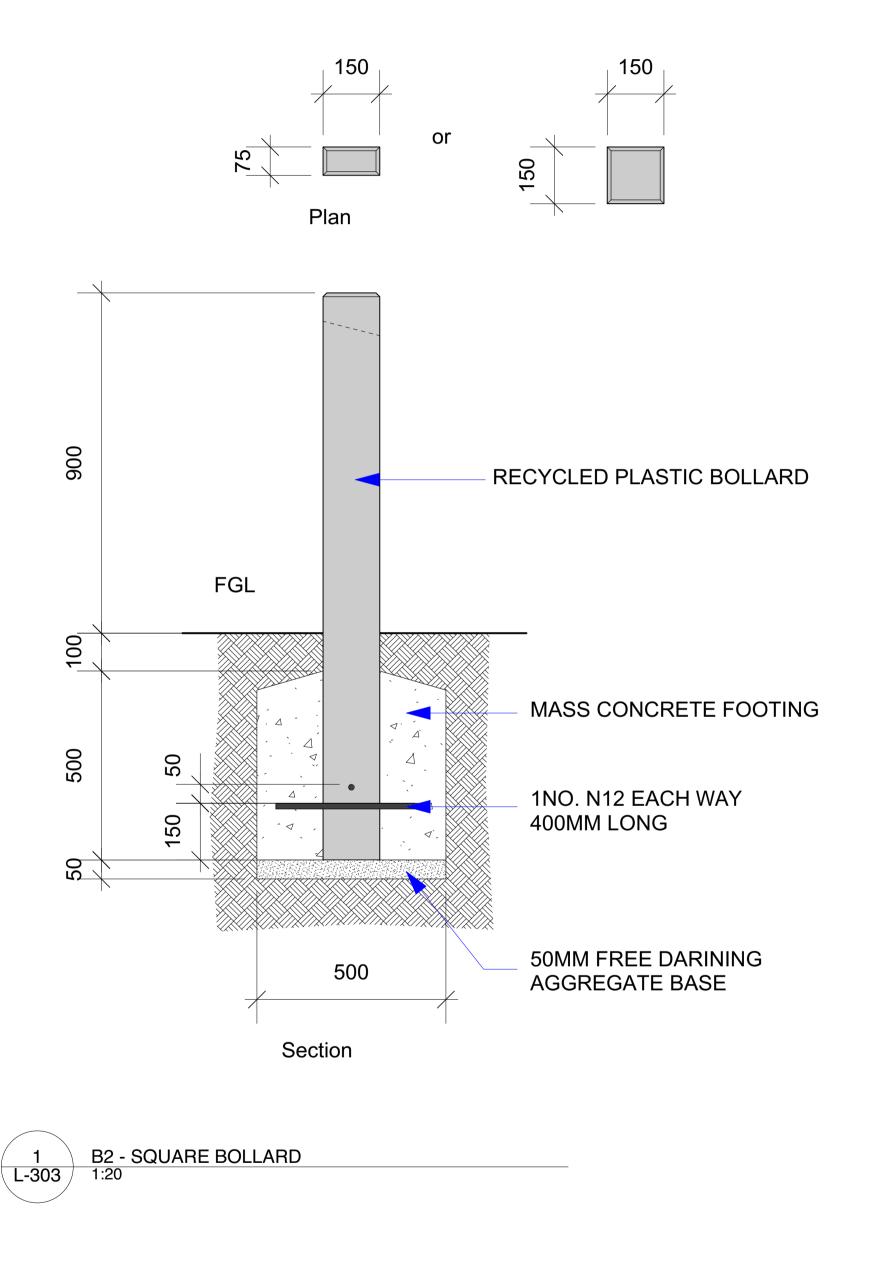
DATE 01-20

JOB NUMBER 146

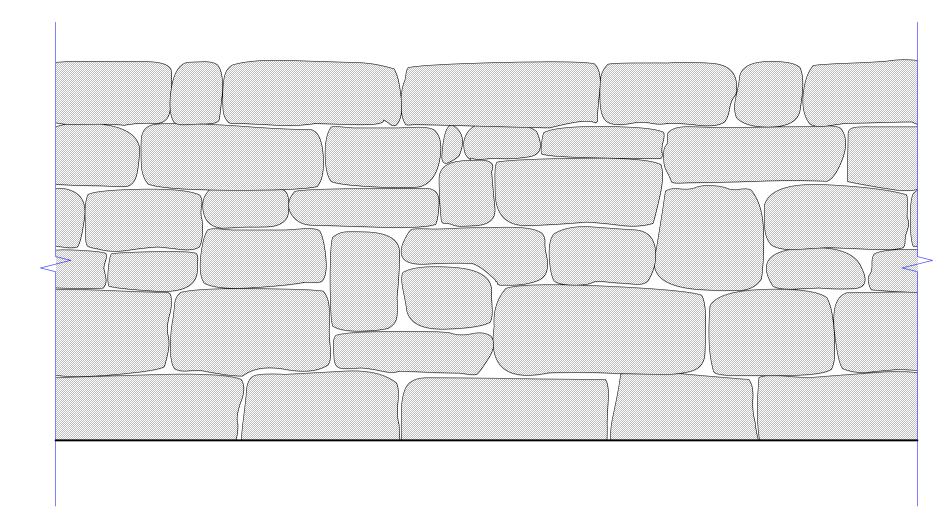
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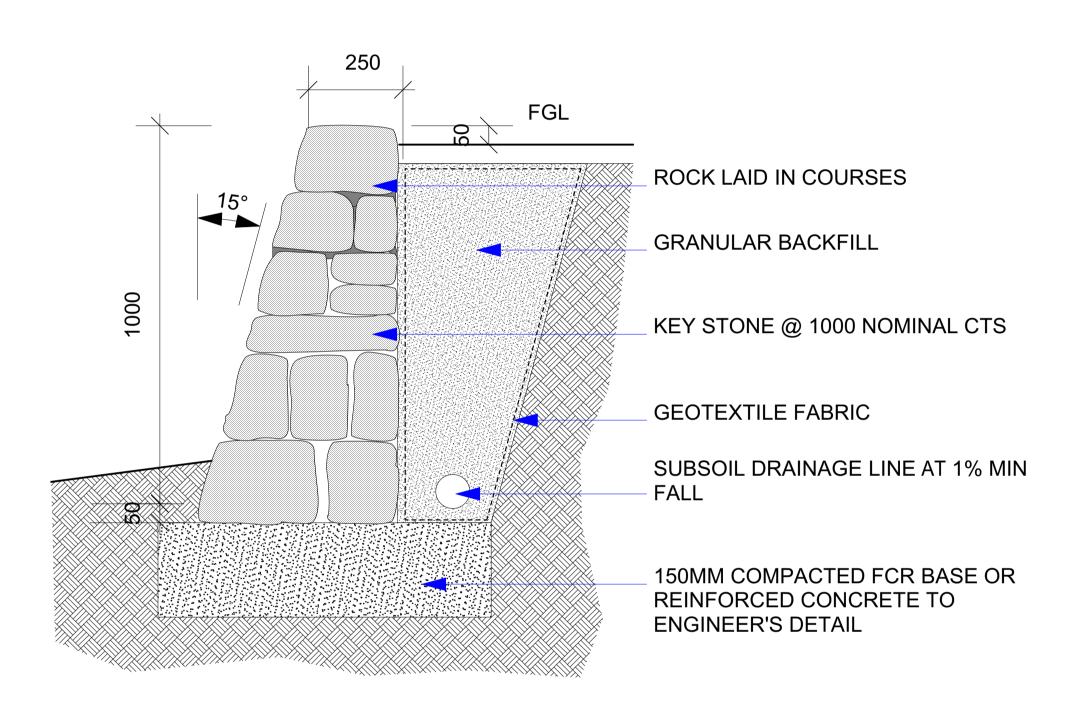
Details Sheet 03



ISSUE DESCRIPTION



Elevation



Typical section

### NOTES:

- ROCKS SHALL BE PLACED IN SUCH A MANNER THAT THEY ARE STABLE AND INTERLOCKING AND BEDDED ON THEIR BROADEST BASE.
- MORTAR THE TOP TWO COURSES OF WALL (RECESS 15MM MINIMUM) IN AREAS WHERE VANDALISM IS AN ISSUE
   PROVIDE FLUSHING POINT FOR SUBSOIL DRAIN AT TOP END OF WALL AND INTERMEDIATE RISERS AT 15M NOMI
- CENTRES WHERE APPLICABLE.



NewScape

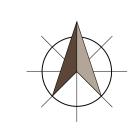
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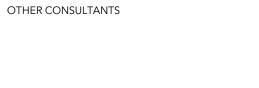
CONTRACTS, SPECIFICATIONS AND DRAWINGs. 5. THE LEVELS SHOWN ON THIS PLAN HAVE BEEN BASED ON SURVEY BY GEOFFREY BROWNE, DATED MAY 2015.

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NORTH





PROJECT SCALE AS SHOWN STATUS **UNICORN FALLS** DESIGNED/DRAWN VERIFIED DATE 01-20 JOB NUMBER DRAWING TITLE DRAWING NUMBER Details Sheet 04 L-303

#### **Technical**

#### Design loading:

 suitabele for NPWS track and access structures category C3, AS1170 table 3.3

#### Uni-fit:

- Uni-fit brackets are available from Uni-Fit Universal Fittings Contact Bill Burke 0412 005 089
- Uni-fit brackets are Hot Dip Galvanised following fabrication

- Posts and rails to be HDG (available pre galvanised from Waratah Steel)
- Vertical bar infill panel to be hot dip galvanised following fabrication
- Pre drill all holes
- Steel to be hot dip galvanised following fabrication
- Steel may be painted grey refer 10.2 Colours & finishes (A4 manual)

#### Chainwire:

- Chainwire:  $3.15 \times 50$  gal wire with black uPVC coating

#### Fasteners:

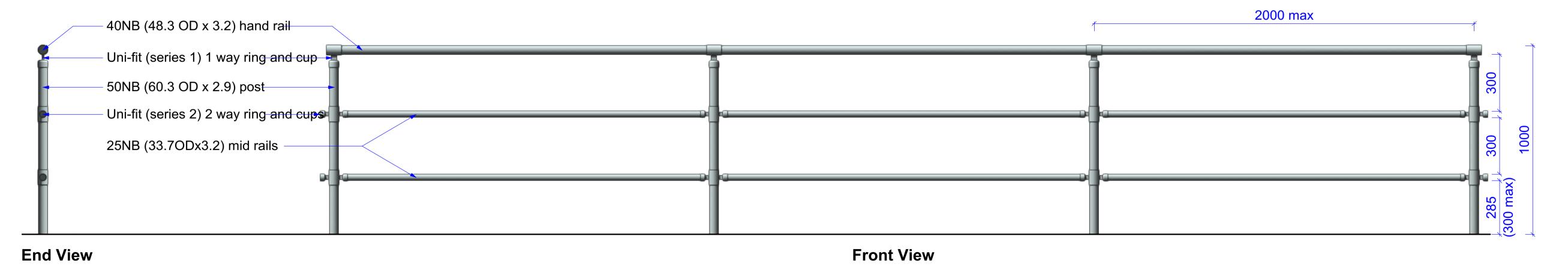
- All fasteners to be hot dip galvanised
- Use tamper resistant fasteners where required refer 11.15 Tamper resistant fasteners (A4 manual)

#### Barrier height:

 NPWS approach to barrier provision is 1000mm minimum height for track applications

### Footing details:

• Refer 5.7.3UFF Uni-fit barrier footings (A3 drawing)



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CONTRACTS, SPECIFICATIONS AND DRAWINGs.

BROWNE, DATED MAY 2015.

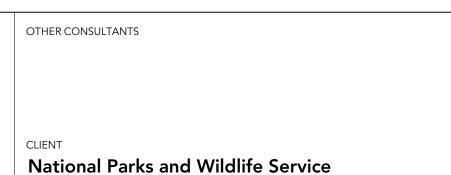
DRAWING NOTES

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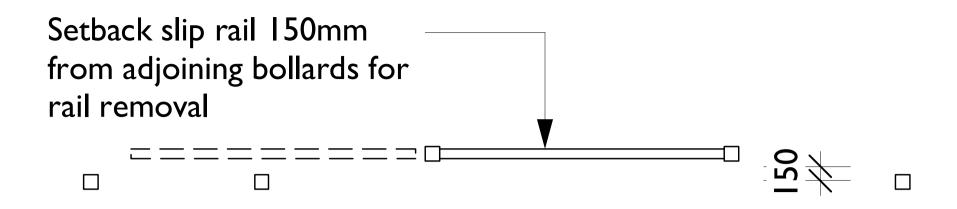




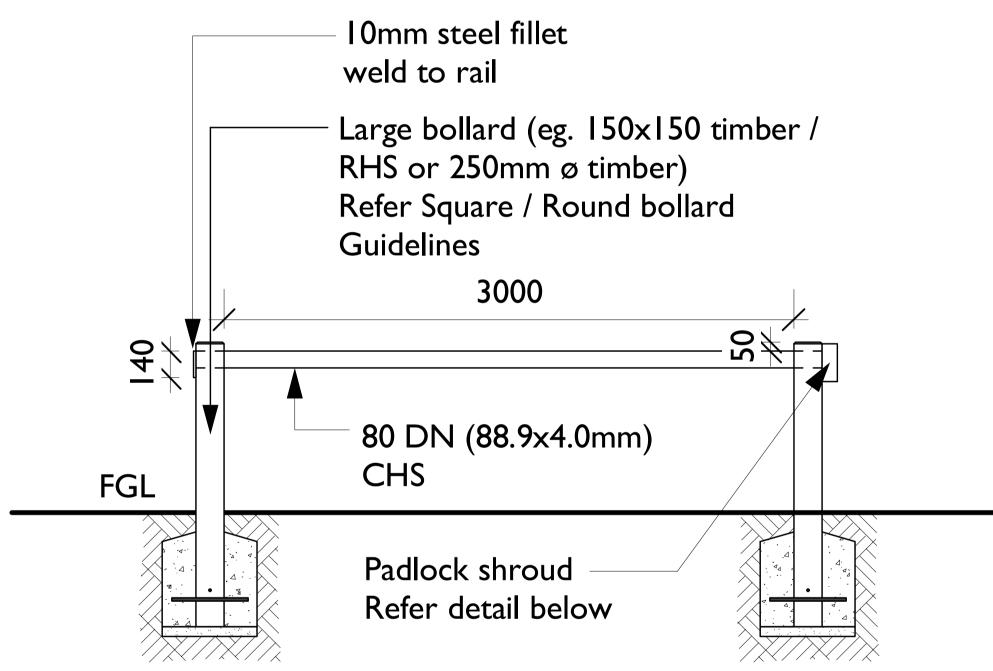
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NSW National Parks & Wildlife Service

**UNICORN FALLS** DRAWING TITLE

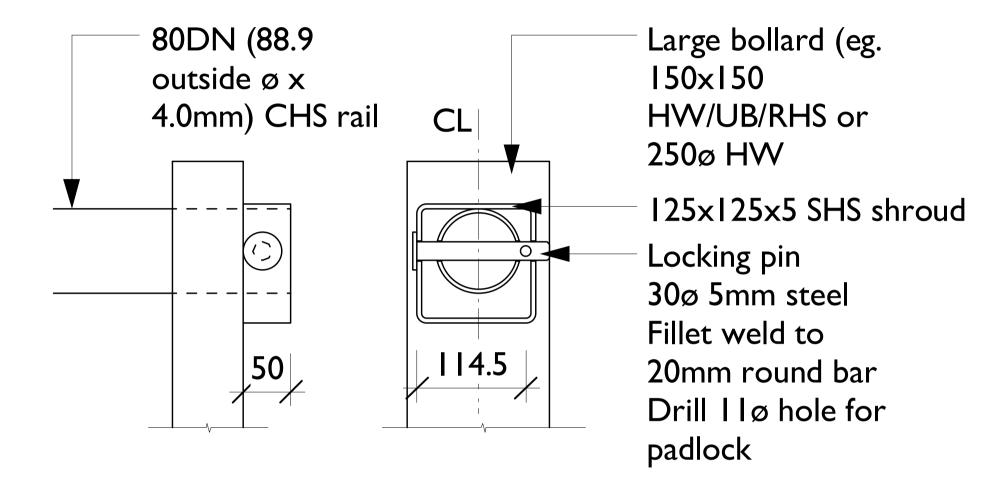
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# Typical plan







Padlock shroud detail



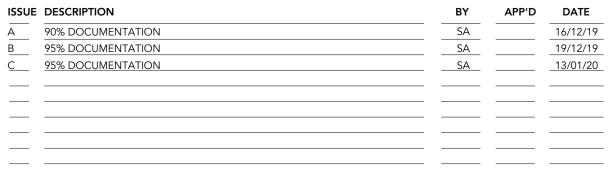


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DRAWING TITLE Details Sheet 06

JOB NUMBER DRAWING NUMBER L-305