BODDINGTON TRAIL NETWORK

DETAILED DESIGN

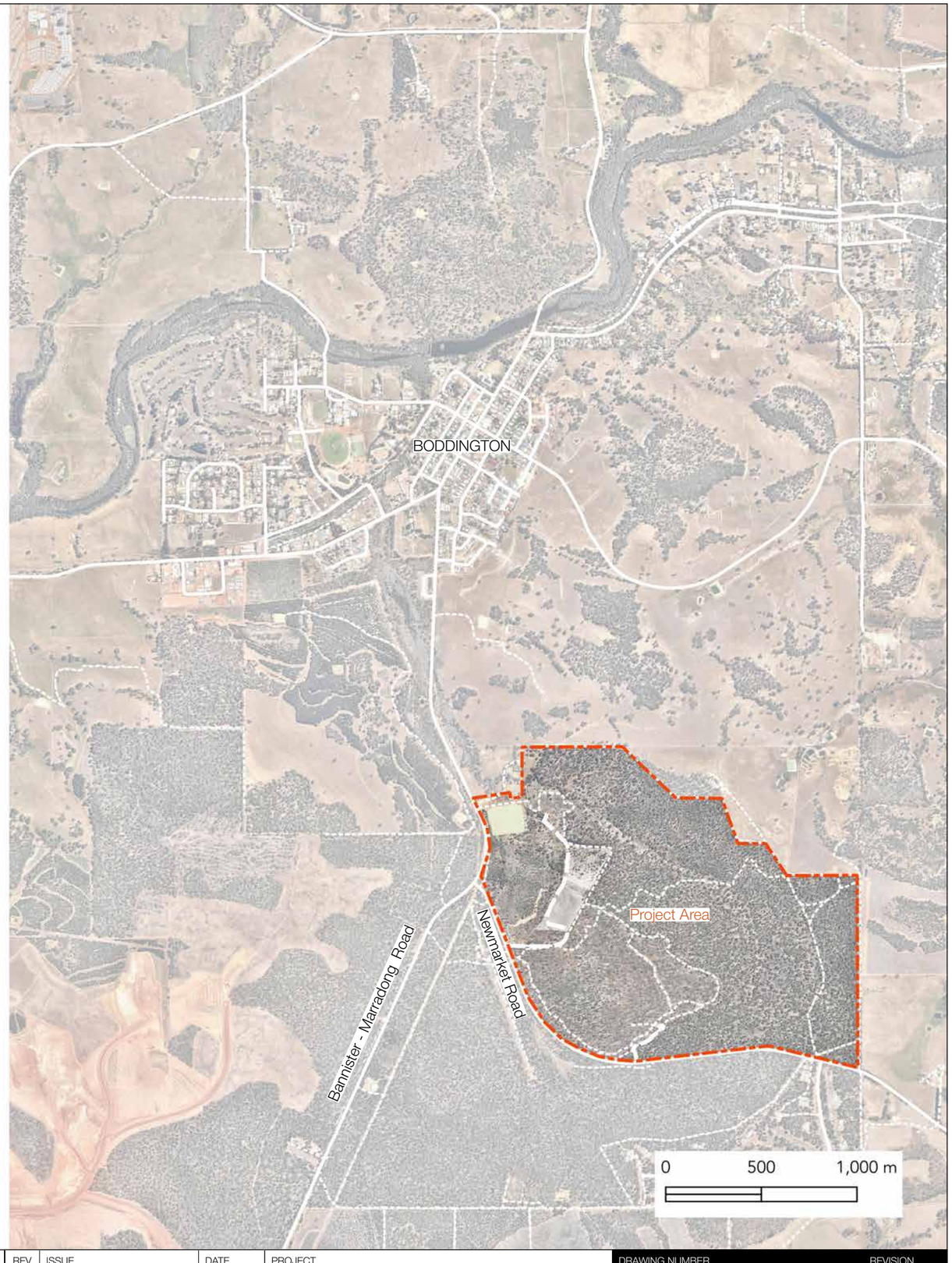
December 2024

TRAIL NETWORK SUMMARY

The Williams Reserve Network seeks to create an engaging walk and mountain bike experience close to Boddington. A stacked loop system based on a primary trailhead, secondary trailhead and a series of trail nodes. With a clockwise direction the network is intended to offer opportunity for riders to session zones or ride longer loops. The MTB trails are cross country style, making use of natural feature with a mix of technical and flowy focus. A central pocket of jump trails provides bigger built features in a sessionable zone with opportunity for progression. The network is serviced by a shuttle road that enters off Newmarket Road dropping riders off at the high point. The shared use trails offer a loop for walkers and trail runners which connects the trailhead to the high point in the reserve and takes users through the most scenic sections of the project area including along the gully and up and along the ridge with views towards Boddington.

SITE SUMMARY

The project area has an open woodland character, with outcropping of laterite at high points and along spurs. A dominant high point at the southern edge of the project area gives way to gently sloping flat topped ridges and shallow gullies.



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CLIENT: Shire of BODDINGTON — Flowing with Natural Beauty

SCALE

DATE: **19/12/2024**

PROJECT NORTH

DRAWN: **MW**

CHECKED: **BC/BP**

PROJECT NUMBER: **2336**

REV	ISSUE	DATE
A	DRAFT FOR REVIEW	06/12/2024
B	FINAL	19/12/2024

PROJECT: **BODDINGTON TRAIL NETWORK**

DRAWING TITLE: **COVER PAGE**

DRAWING NUMBER: **2336_DD1**

REVISION: **B**

ISSUE: **FINAL**

GENERAL CONSTRUCTION NOTES

SITE WORKS

- A 'FOR CONSTRUCTION' DRAWING SET WILL BE ISSUED. NO WORKS TO BE COMPLETED USING DRAFT DRAWINGS.
- ALL SITE AND CONSTRUCTION WORKS ARE TO BE CARRIED OUT TO THE STANDARDS SHOWN IN THESE DRAWINGS.
- CONFIRM CONSTRUCTION ACCESS REQUIREMENTS WITH SHIRE REPRESENTATIVE.
- THE EXTENT OF WORKS BOUNDARY INCLUDES THE TRAIL CORRIDOR AND ANY ADDITIONAL AREAS NOMINATED BY THE SHIRE PROJECT MANAGER.
- ALL SITE WORKS, STORAGE OF MATERIALS AND GENERAL SITE DISTURBANCE SHALL OCCUR WITHIN THE EXTENT OF WORKS BOUNDARY OR APPROVED LAYDOWN AREAS UNLESS OTHERWISE APPROVED BY THE SHIRE PROJECT MANAGER.
- NO CONSTRUCTION MATERIAL OFF CUTS, DUST OR ANY OTHER ITEMS ARE TO IMPACT THE SURROUNDING LANDSCAPE (OUTSIDE OF EXTENT OF WORKS BOUNDARY) OR WATER COURSES UNDER ANY CIRCUMSTANCES.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE WARNING SIGNAGE REGARDING THE CONSTRUCTION AREA, FENCES, BUNTING OR OTHER NECESSARY SECURITY AND PUBLIC SEPARATION MEASURES AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- SECURITY FOR PLANT, MATERIALS AND TOOLS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CONFIRM APPROVED FIRE SUPPRESSION EQUIPMENT WITH THE SHIRE PROJECT MANAGER.

SITE ACCESS

- THE CONTRACTOR SHALL ACCESS THE SITE VIA EXISTING SEALED ROADS, MANAGEMENT ACCESS TRACKS AND ALONG CONSTRUCTED TRAIL ONLY.
- ALTERNATE CONSTRUCTION ACCESS TO BE DISCUSSED/APPROVED BY SHIRE PROJECT MANAGER
- LAYDOWN AREAS FOR IMPORTED MATERIAL TO BE SPECIFIED BY SHIRE PROJECT MANAGER.

HYGIENE

- ALL MACHINERY, EQUIPMENT AND PERSONNEL USED FOR CONSTRUCTION OR ENTERING THE EXTENT OF WORKS AREA SHALL BE FREE OF SOIL AND SEEDS.
- ALL MACHINERY, EQUIPMENT AND PERSONNEL SHALL BE WASHED AND CLEANED TO THE SATISFACTION OF THE SHIRE PROJECT MANAGER PRIOR TO ENTERING THE EXTENT OF WORKS AREA.
- ALL MACHINERY AND EQUIPMENT SHALL BE WASHED AND CLEANED ON COMPLETION OF WORKS AND DEMOBILISATION OUTSIDE OF THE EXTENT OF WORKS AREA
- ANY SPECIFIC WASHDOWN ON ENTRY OR EXIT AREAS TO BE CONFIRMED BY SHIRE PROJECT MANAGER PRIOR TO WORKS STARTING.

FIRE PREPARATION/ PREVENTION

- THE CONTRACTOR SHALL NOT LIGHT FIRES OF ANY MANNER
- EXTREME CARE SHALL BE TAKEN WHEN USING MACHINERY THAT CREATES SPARKS OR POTENTIAL FIRE HAZARDS SUCH AS WELDING AND GRINDING.
- THE CONTRACTOR SHALL ABIDE BY ALL FIRE RESTRICTIONS OR MACHINERY MOVEMENT BANS WHETHER SET BY THE SHIRE OR OTHER AGENCIES.
- ALL FUEL AND FLAMMABLE LIQUIDS SHALL BE LABELLED AND STORED IN APPROVED CONTAINERS.
- THE CONTRACTOR SHALL HAVE ON SITE FIRE SUPPRESSION EQUIPMENT SUITABLE TO THE LANDSCAPE AND SCALE OF WORKS. THIS EQUIPMENT SHALL BE IN EXCELLENT WORKING ORDER AND READY FOR IMMEDIATE USE.

SITE VEGETATION

- MATURE TREES WITH DBH >100mm SHOULD BE AVOIDED IN TRAIL ALIGNMENT WHERE POSSIBLE, NO MATURE TREES WITH DBH >150mm SHOULD BE REMOVED.
- VEGETATION IN THE TRAIL TREAD MUST BE FULLY UPROOTED, NOT CUT OFF AT GROUND LEVEL.
- BLENDING OF MATERIAL WITHIN THE TRAIL CORRIDOR IS REQUIRED TO REHABILITATE ANY DISTURBED CONSTRUCTION FOOTPRINT AND CONSTRUCTION ACCESS POINTS.
- ANY DAMAGE CAUSED BY THE CONTRACTOR TO VEGETATION OUTSIDE THE EXTENT OF WORKS SHALL BE REHABILITATED AT THE CONTRACTOR'S COST.

HOLD POINTS

- THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING PROJECT HOLD POINTS AND ANY OTHERS SPECIFIED OR INSTRUCTED BY THE SHIRE REPRESENTATIVE
- THE HOLD POINTS HAVE BEEN ESTABLISHED FOR THE CONTRACTOR TO PROVIDE TEST RESULTS, ASSESSMENT OF WORKS, CLARIFICATION OF LEVELS OR OTHER SPECIFIED REQUIREMENTS TO BE APPROVED PRIOR TO PROCEEDING WITH THE NEXT STAGE OF WORKS.
- THE HOLD POINTS SHALL INCLUDE BUT NOT LIMITED TO:

HOLD POINT	APPROVAL REQUIREMENT
TBC	TBC

- IF COMPLETED WORK IS NOT IN ACCORDANCE WITH DETAIL DRAWINGS AND CONSTRUCTION NOTES, THE SHIRE PROJECT MANAGER SHALL BE CONSULTED AND AN ONSITE REVIEW SHALL TAKE PLACE. ANY WORK DEEMED NOT TO MEET STANDARDS IN DRAWINGS AND CONSTRUCTION NOTES MAY BE REJECTED.

TOLERANCES

- NEW TRAIL ALIGNMENTS HAVE BEEN FLAGGED AT APPROXIMATELY 5m CENTRES IN THE FIELD USING FLAGGING TAPE, DEFINING THE APPROXIMATE CENTERLINE OF A 5m DESIGN CORRIDOR. THE DESIGN CORRIDOR REPRESENTS THE CORRIDOR WITHIN WHICH THE TRAIL CAN BE CONSTRUCTED.
- SPECIFED DRAINAGE, TRAIL ELEMENTS AND TECHNICAL TRAIL FEATURES MAY SHIFT UP TO 5m FROM SPECIFIED LOCAITON ALONG APPROVED CENTRELINE.

TRAIL GRADIENT

- TRAIL TO ALLOW FOR NATURAL CROSS SLOPE DRAINAGE. EROSION AND DRAINAGE FEATURES ARE INSTALLED TO STOP TRAIL AND FEATURE DEGRADATION, MINIMIZE POSSIBILITY OF DOWN TRAIL WATER CHANNELING.
- ROLLING DIPS AND GRADE REVERSAL FEATURES SHALL BE INSTALLED IN ACCORDANCE WITH WA MOUNTAIN BIKE MANAGEMENT GUIDELINES, CONTOURING WATER BACK TO NATURAL SLOPE.

TRAIL PROFILE AND SURFACING

- THE FINISHED TRAIL PROFILE SHOULD BE CROWNED, OUTSLOPED OR LIFTED AND TILTED AS APPROPRIATE TO THE TERRAIN. THE SURFACE TREAD IS NATURAL AS SPECIFIED IN TRAIL DETAILS, TRAIL WIDTH AS PER TRAIL DETAILS.

TRAIL ENTRY/EXIT

- TRAIL ENTRY AND EXIT OFF VEHICLE TRACKS SHOULD BE BUILT TO DISCOURAGE MOTORCYCLE USE OF THE TRAIL THROUGH ALIGNMENT AND CHICANE AND CHOKE FEATURES UTILISING LOCALLY WON ROCKS AND LOGS

SITE CLEAN UP

- FOLLOWING COMPLETION OF WORKS, CONSTRUCTION SITES SHALL BE LEFT CLEAN, TIDY AND FREE OF CONSTRUCTION RUBBLE, WASTE AND OVERBURDEN TO THE SATISFACTION OF THE SHIRE PROJECT MANAGER.
- WITHIN TRAIL EXTENT, TRAIL AREA TO BE MADE GOOD TO ADJACENT TOPOGRAPHY TO A FINISH APPROVED BY THE SHIRE PROJECT MANAGER.

CONSTRUCTION INDUCTION

AT THE COMMENCEMENT OF CONSTRUCTION, ALL CONTRACTORS WILL BE REQUIRED TO ATTEND A CONSTRUCTION INDUCTION. KEY ITEMS TO BE COVERED IN THE CONSTRUCTION INDUCTION INCLUDE (BUT ARE NOT LIMITED TO):

- REQUIRED PPE
- PROJECT LOCATION, INCLUDING ACCESS ROADS, STOCKPILE LOCATIONS, EMERGENCY
- EVACUATION POINTS ETC;
- PROJECT SCOPE OF WORKS, INCLUDING DESIRED OUTCOME OF THE PROJECT, CONSTRUCTION PROGRAM, KEY MILESTONES, COMPLETION ETC;
- CONSTRUCTION SPECIFICATIONS
- PROJECT MANAGEMENT PROTOCOLS AROUND REPORTING, PROCEDURES TO FOLLOW IF THERE ARE ISSUES WITH CONSTRUCTION WORKS OR THE DESIGN, VARIATIONS, ETC;
- CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN;
- WORK HEALTH AND SAFETY MANAGEMENT PLAN;
- VISITOR RISK MANAGEMENT PROTOCOLS TO MINIMISE THE RISK OF VISITORS USING THE TRAIL WHILE IT IS UNDER CONSTRUCTION;
- HYGIENE PROTOCOLS TO ENSURE ANY MACHINERY OR TOOLS ARE FREE FROM CONTAMINATED SOIL, WEEDS OR SEEDS;
- CULTURAL HERITAGE PROTECTION PROTOCOLS;
- SIGNIFICANT FLORA AREA AND HABITAT TREE PROTOCOLS;
- PROPOSED MATERIALS.

EMERGENCY PROCEEDURES

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AN EMERGENCY RESPONSE PLAN AND FOR THIS PLAN TO BE THOROUGHLY COMMUNICATED TO ALL STAFF MEMBERS IN THE CONSTRUCTION INDUCTION. THE EMERGENCY RESPONSE PLAN SHOULD IDENTIFY EVACUATION ROUTES, MUSTERING POINTS, COMMUNICATION PROTOCOLS AND PROVIDE KEY CONTACT DETAILS FOR LOCAL AUTHORITIES AND SERVICES. IT SHOULD BE COMPATIBLE WITH THE INTERNAL EMERGENCY RESPONSE PROTOCOLS OF THE VARIOUS LAND MANAGERS.

ENVIRONMENTAL INCIDENTS AND EMERGENCIES WILL BE IDENTIFIED WITHIN INDIVIDUAL ENVIRONMENTAL RISK MANAGEMENT PLANS. HOWEVER, PRO-ACTIVE ENVIRONMENTAL RISK MANAGEMENT MEASURES SHOULD BE UNDERTAKEN WHEREVER POSSIBLE, IF EVENTS SUCH AS HIGH/EXTREME FIRE DANGER ARE FORECAST.

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CLIENT

Shire of BODDINGTON
Flowing with Natural Beauty

SCALE

DATE
19/12/2024

PROJECT NORTH

DRAWN
MW

CHECKED
BC/BP

PROJECT NUMBER
2336

REV	ISSUE	DATE
A	DRAFT FOR REVIEW	06/12/2024
B	FINAL	19/12/2024

PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
GENERAL NOTES

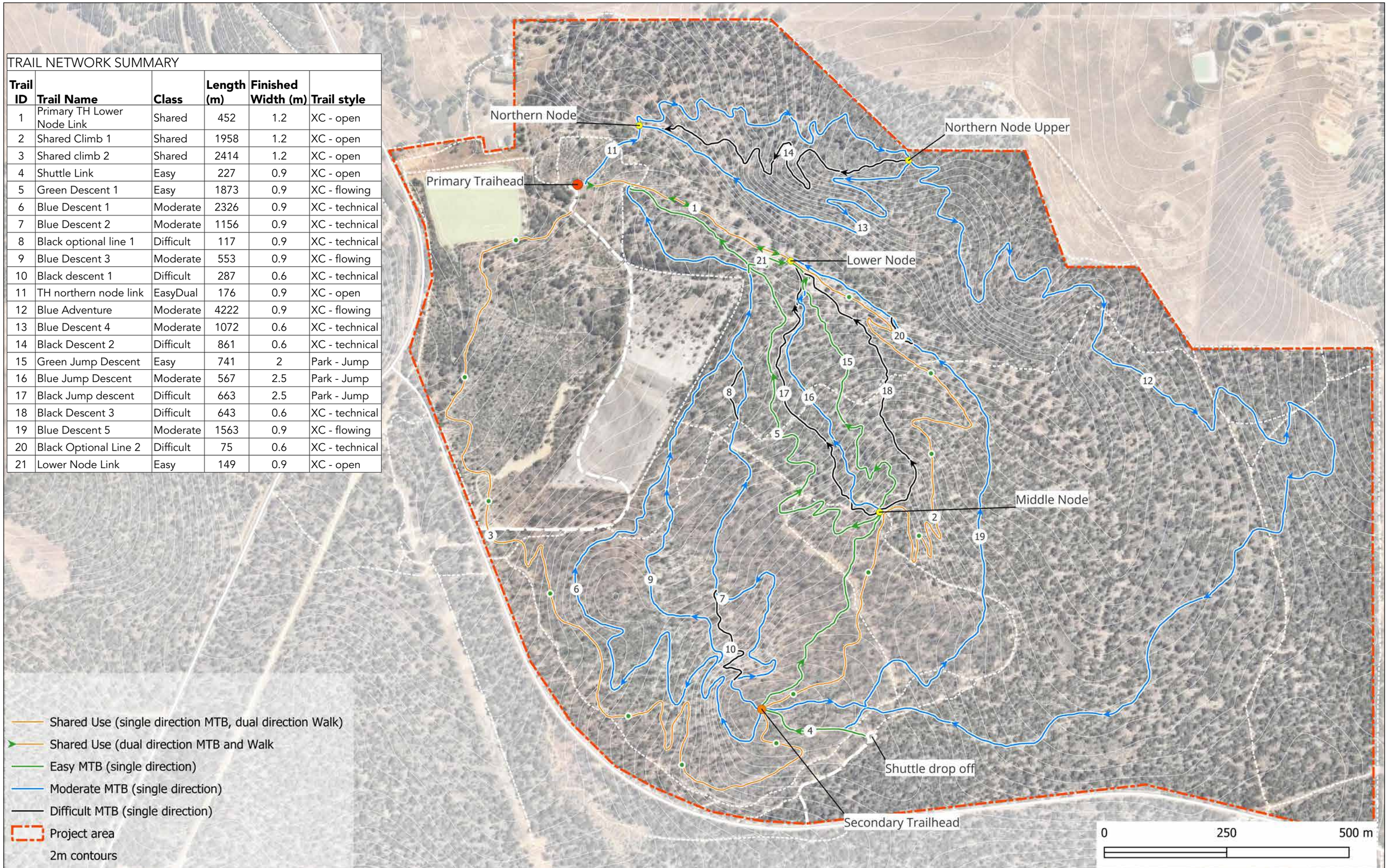
DRAWING NUMBER
2336_DD2

REVISION
B

ISSUE
FINAL

TRAIL NETWORK SUMMARY

Trail ID	Trail Name	Class	Length (m)	Finished Width (m)	Trail style
1	Primary TH Lower Node Link	Shared	452	1.2	XC - open
2	Shared Climb 1	Shared	1958	1.2	XC - open
3	Shared climb 2	Shared	2414	1.2	XC - open
4	Shuttle Link	Easy	227	0.9	XC - open
5	Green Descent 1	Easy	1873	0.9	XC - flowing
6	Blue Descent 1	Moderate	2326	0.9	XC - technical
7	Blue Descent 2	Moderate	1156	0.9	XC - technical
8	Black optional line 1	Difficult	117	0.9	XC - technical
9	Blue Descent 3	Moderate	553	0.9	XC - flowing
10	Black descent 1	Difficult	287	0.6	XC - technical
11	TH northern node link	EasyDual	176	0.9	XC - open
12	Blue Adventure	Moderate	4222	0.9	XC - flowing
13	Blue Descent 4	Moderate	1072	0.6	XC - technical
14	Black Descent 2	Difficult	861	0.6	XC - technical
15	Green Jump Descent	Easy	741	2	Park - Jump
16	Blue Jump Descent	Moderate	567	2.5	Park - Jump
17	Black Jump descent	Difficult	663	2.5	Park - Jump
18	Black Descent 3	Difficult	643	0.6	XC - technical
19	Blue Descent 5	Moderate	1563	0.9	XC - flowing
20	Black Optional Line 2	Difficult	75	0.6	XC - technical
21	Lower Node Link	Easy	149	0.9	XC - open



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SCALE
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DATE
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2336

REV	ISSUE	DATE
A	DRAFT FOR REVIEW	06/12/2024
B	FINAL	19/12/2024

PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
NETWORK OVERVIEW

DRAWING NUMBER
2336_DD3

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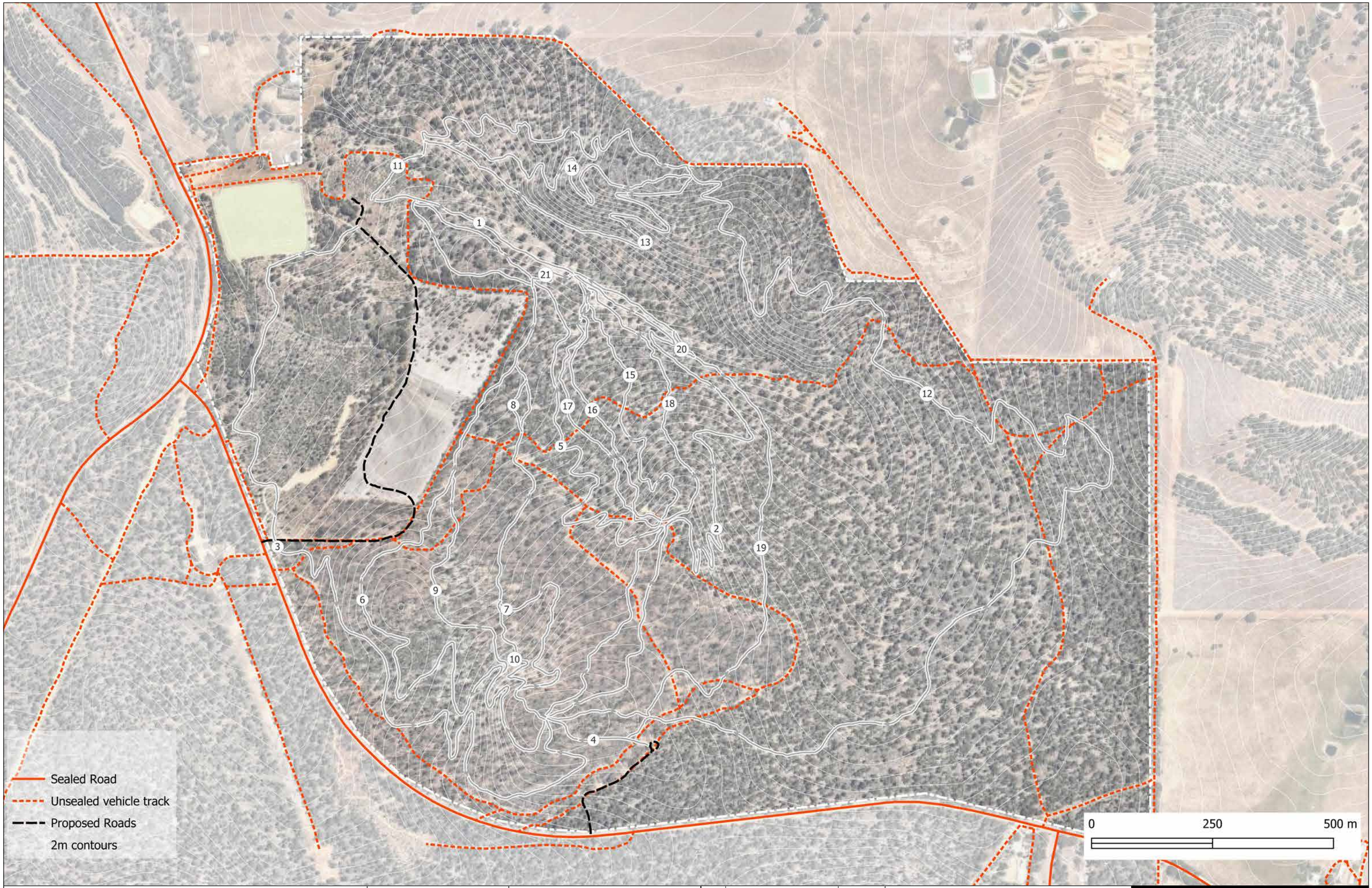
FINAL



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PROJECT NORTH

REV	ISSUE	DATE
A	DRAFT FOR REVIEW	06/12/2024
B	FINAL	19/12/2024

PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
ACCESS

DRAWING NUMBER
2336_DD4

REVISION
B

ISSUE
FINAL

Trail 1 - Primary Tralihead - Lower Node Link

Easy
Green Circle

Class 3

TRAIL DESCRIPTION

Trail 1 is a 452m dual use dual direction trail linking the Primary Trailhead to the Lower node. The trail is intended to be an open style predictable trail with no technical features and good sightlines – grade 3 walk and easy MTB. Located on mellow slopes south of a shallow drainage line, the trail should include low amplitude grade reversals and minimal camber. The trail surface should have a uniform width and appearance groomed to 1.2m.

TRAIL DETAILS

Classification	Green Circle/Class 3
Trail Length	452m
Trail Type	XC - Open
Direction	Dual direction
Site gradient	Low side slopes
Trail gradient	3%
In situ soil types	Gravel-loam
Natural features	Jarrah Forest
Construction footprint width	1,500mm
Finished trail tread width	1,200mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals

Rolling Grade Dips

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
1	1	0	Profile	Machine build, flagged in orange	0	0	0	Gravel loam	
1	2	416	Element	Utilise logs as demarcation between trails	0	0	0		Insitu logs
1	3	452	Element	Lower node. Flatten and clear pad approx 8x8m pad to gather and socialise. Utilise local logs and rocks for demarcation and informal seating	0	0	0		

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SCALE
1:3000 at **A3**

DATE
19/12/2024

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PROJECT NUMBER
2336

REV	ISSUE	DATE
A	DRAFT FOR REVIEW	06/12/2024
B	FINAL	19/12/2024

PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 1 - SUMMARY

DRAWING NUMBER
2336_DD5

REVISION
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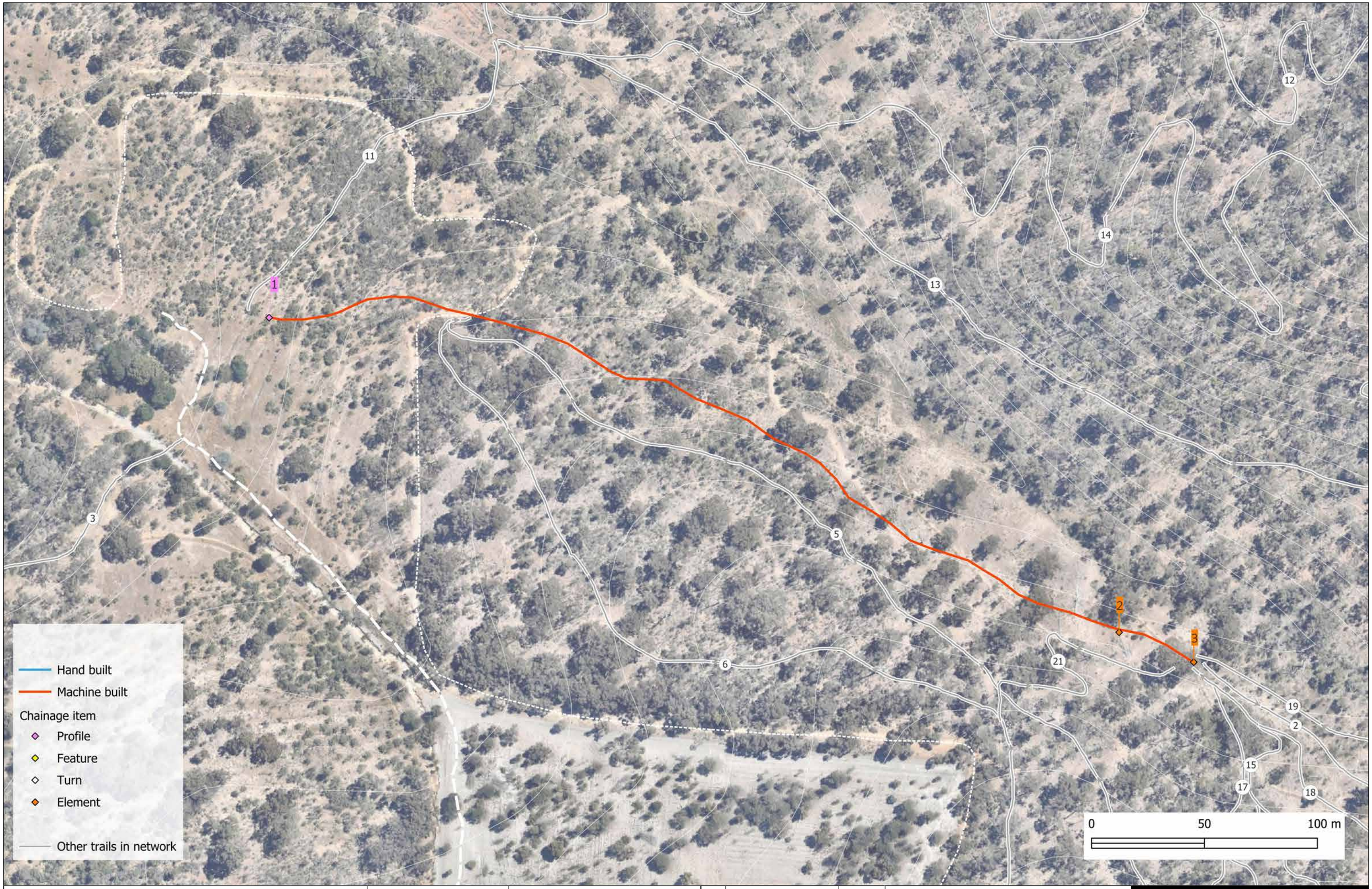

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SCALE
1:1500 at **A3**

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MW

PROJECT NUMBER
2336

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PROJECT NORTH

REV	ISSUE	DATE
A	DRAFT FOR REVIEW	06/12/2024
B	FINAL	19/12/2024

PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 1 - DETAIL

DRAWING NUMBER
2336_DD6

REVISION
B

ISSUE
FINAL

Trail 2 - Shared Climb 1

Easy
Green Circle

Class 3

TRAIL DESCRIPTION

Trail 2 is a 1.9kmeasy shared use trail which is proposed to be single direction for cyclists and dual direction for walkers. Trail 2 traverses alongside the main gully from the Lower Node through open forest before climbing to the Secondary trailhead. The trail will feature continuous rolling contour grade reversals and will not include any technical trail features. Switchbacks should be constructed with a platform center and a low level of gradient change between entry and exit. Switchback shortcutting must be considered and appropriate countermeasures must be undertaken at the time of construction through appropriate positioning of turns along with the installation of logs or rocks within the landscape to discourage shortcutting. Trail finish should be uniform with minimal camber to a width of 1.2m.

TRAIL DETAILS

Classification	Green Circle / Class 3
Trail Length	1,958m
Trail Type	XC - Open
Direction	Dual direction walk, single direction (climb) MTB
Site gradient	Low side slopes
Trail gradient	3%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,500mm
Finished trail tread width	1,200mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals

Rolling Grade Dips

Switchbacks

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

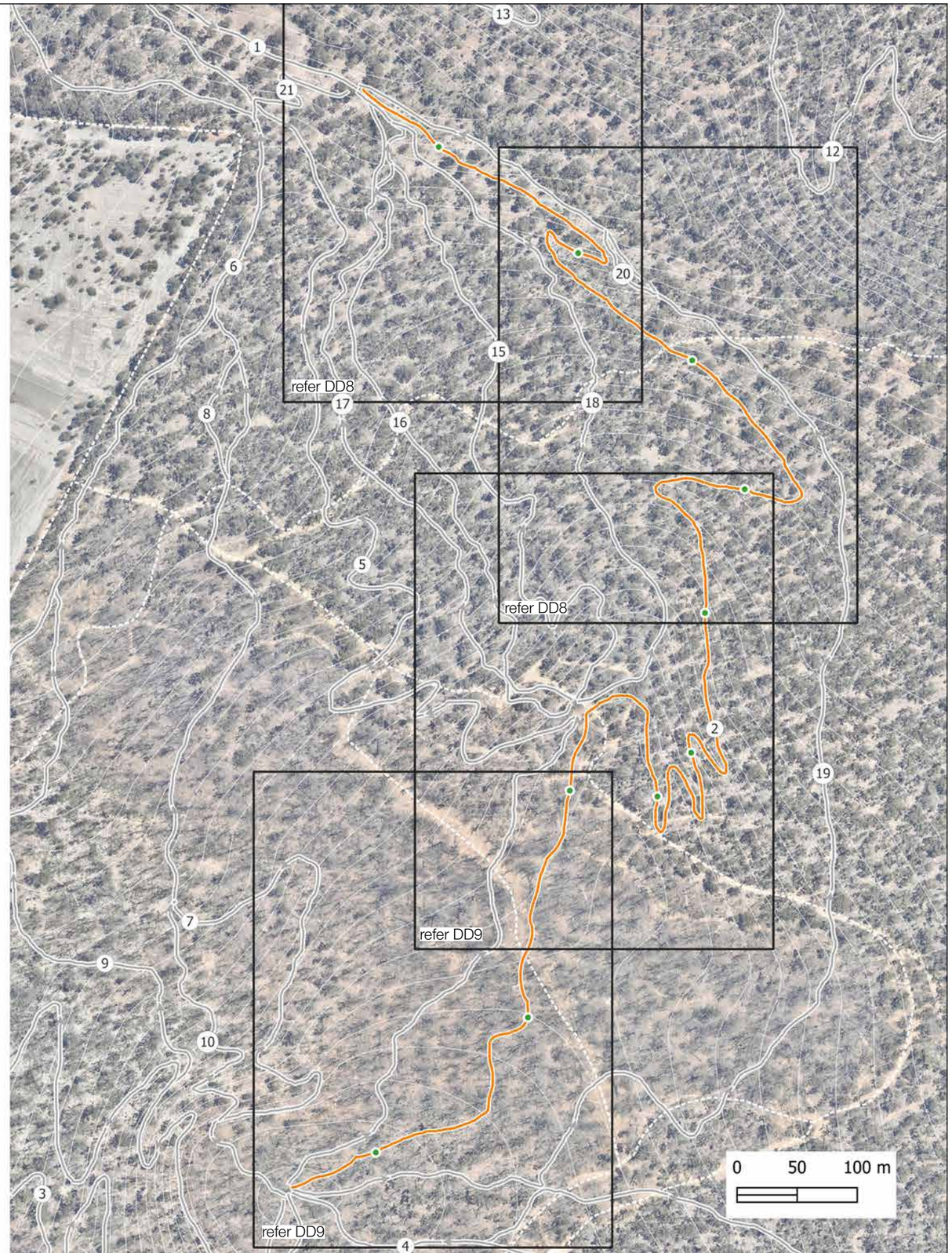
Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
2	1	0	Profile	Machine build, flagged in orange	0	0	0	Gravel loam	
2	2	252	Turn	Switchback turn	0	0	0	Gravel loam	Insitu
2	3	311	Turn	Switchback turn	0	0	0	Gravel loam	Insitu
2	4	761	Turn	Switchback turn	0	0	0	Gravel loam	Imsitu
2	5	1017	Turn	Switchback turn	0	0	0	Gravel loam	Insitu
2	6	1066	Turn	Switchback turn	0	0	0	Gravel loam	Insitu
2	7	1138	Turn	Switchback turn	0	0	0	Gravel loam	Insitu
2	8	1167	Element	Weave trail through grass trees	0	0	0		
2	9	1187	Turn	Switchback turn	0	0	0	Gravel loam	Insitu
2	10	1246	Turn	Switchback turn	0	0	0	Gravel loam	Insitu
2	11	1409	Element	Upper node. Flatten and clear pad approx 8x8m pad to gather and socialise before hitting descents. Utilise local logs and rocks for demarcation and informal seating	0	0	0		



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DATE: **19/12/2024**
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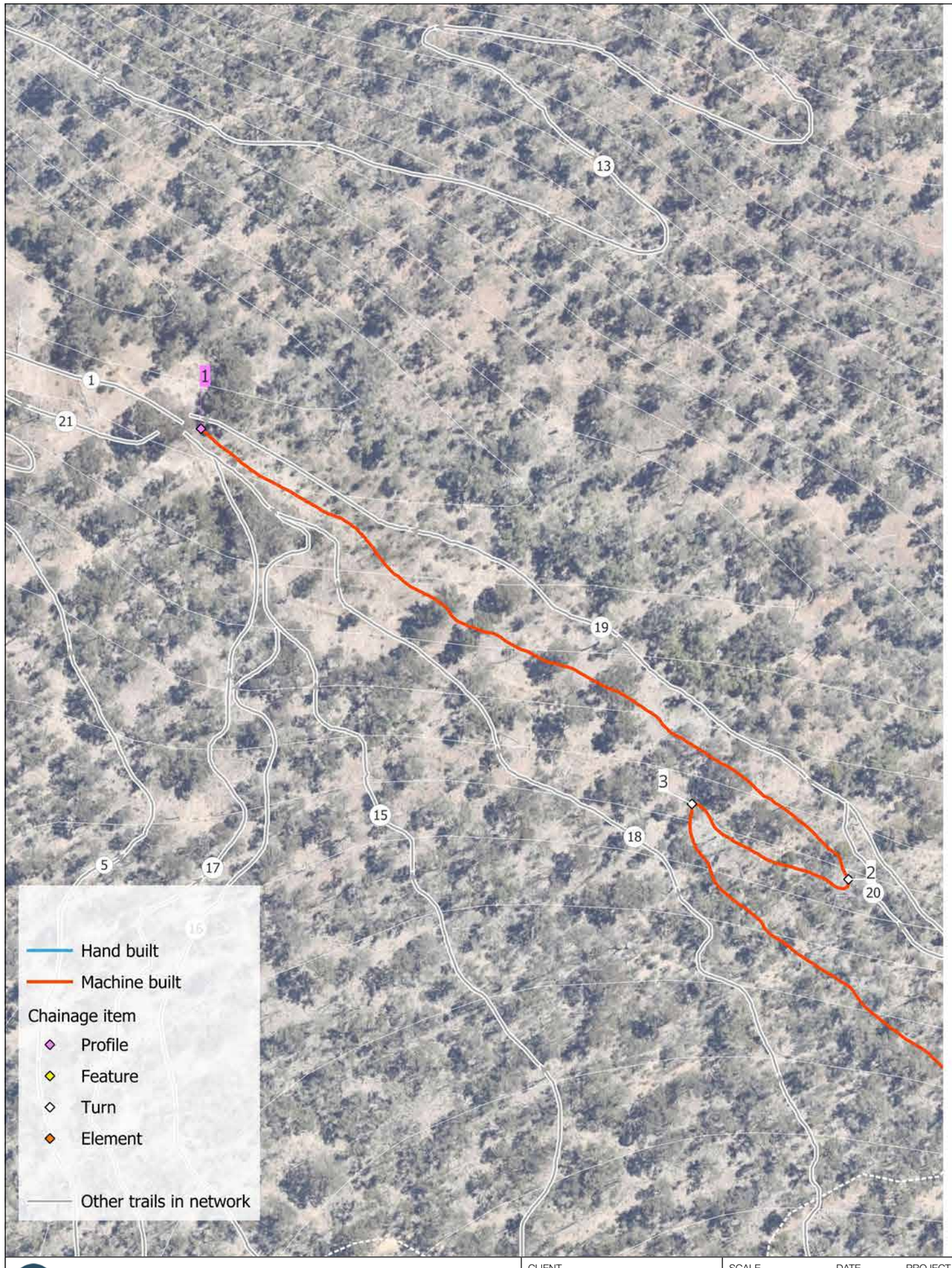
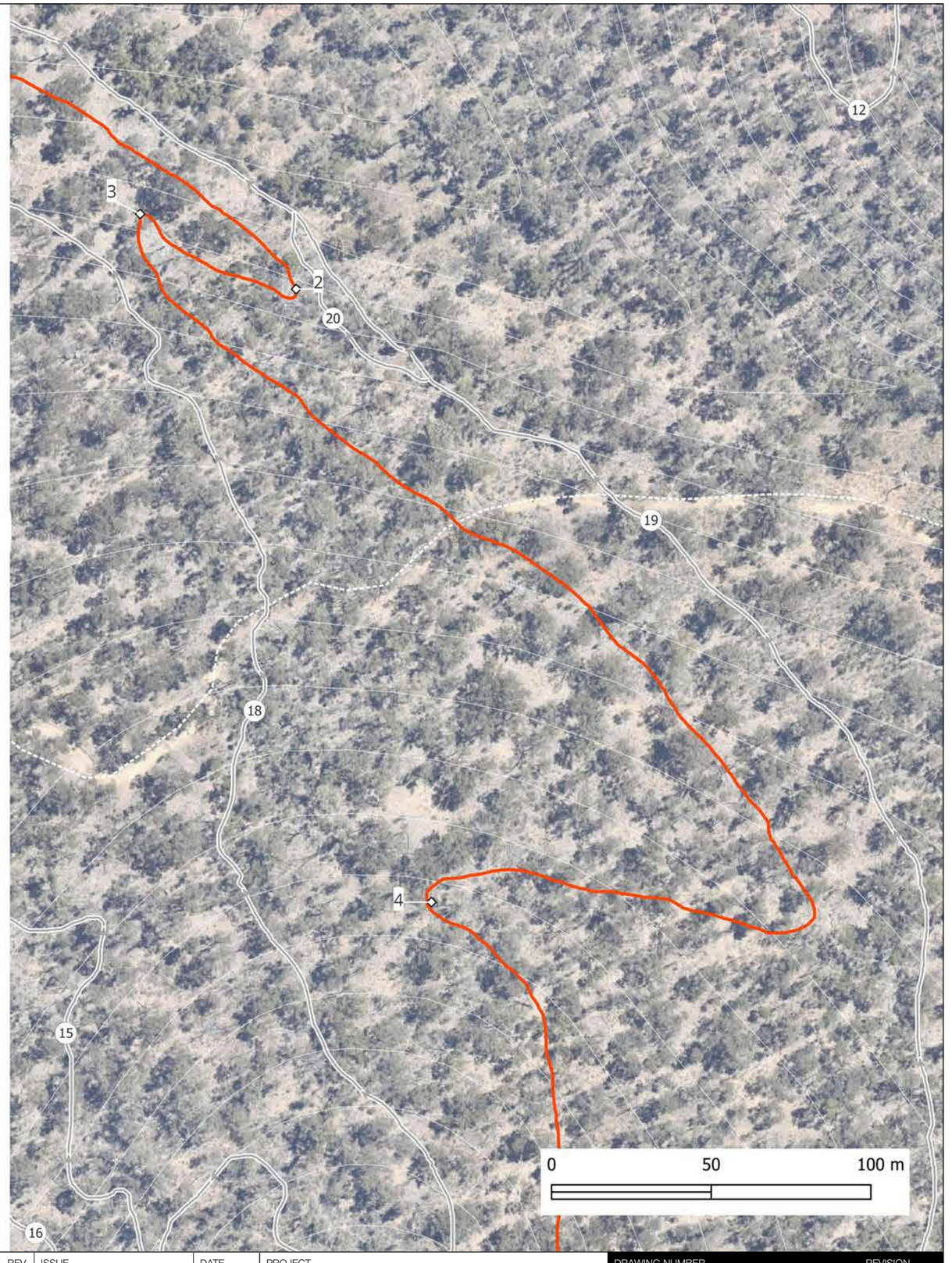
REV	ISSUE	DATE
A	DRAFT FOR REVIEW	06/12/2024
B	FINAL	19/12/2024

PROJECT: **BODDINGTON TRAIL NETWORK**

DRAWING TITLE: **TRAIL 2 - SUMMARY**

DRAWING NUMBER: **2336_DD7**
REVISION: **B**
ISSUE: **FINAL**





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B	FINAL	19/12/2024

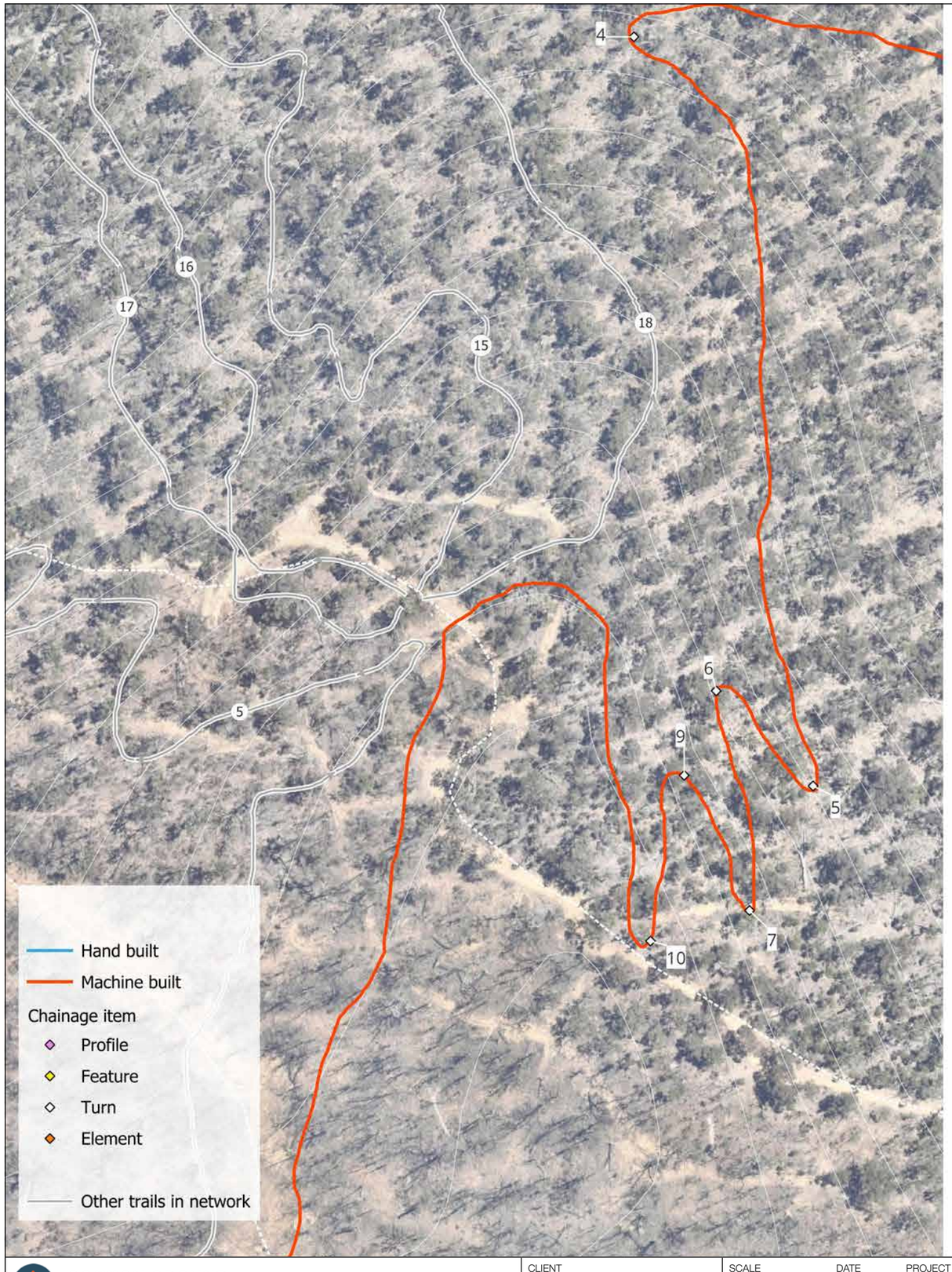
PROJECT
BODDINGTON TRAIL NETWORK

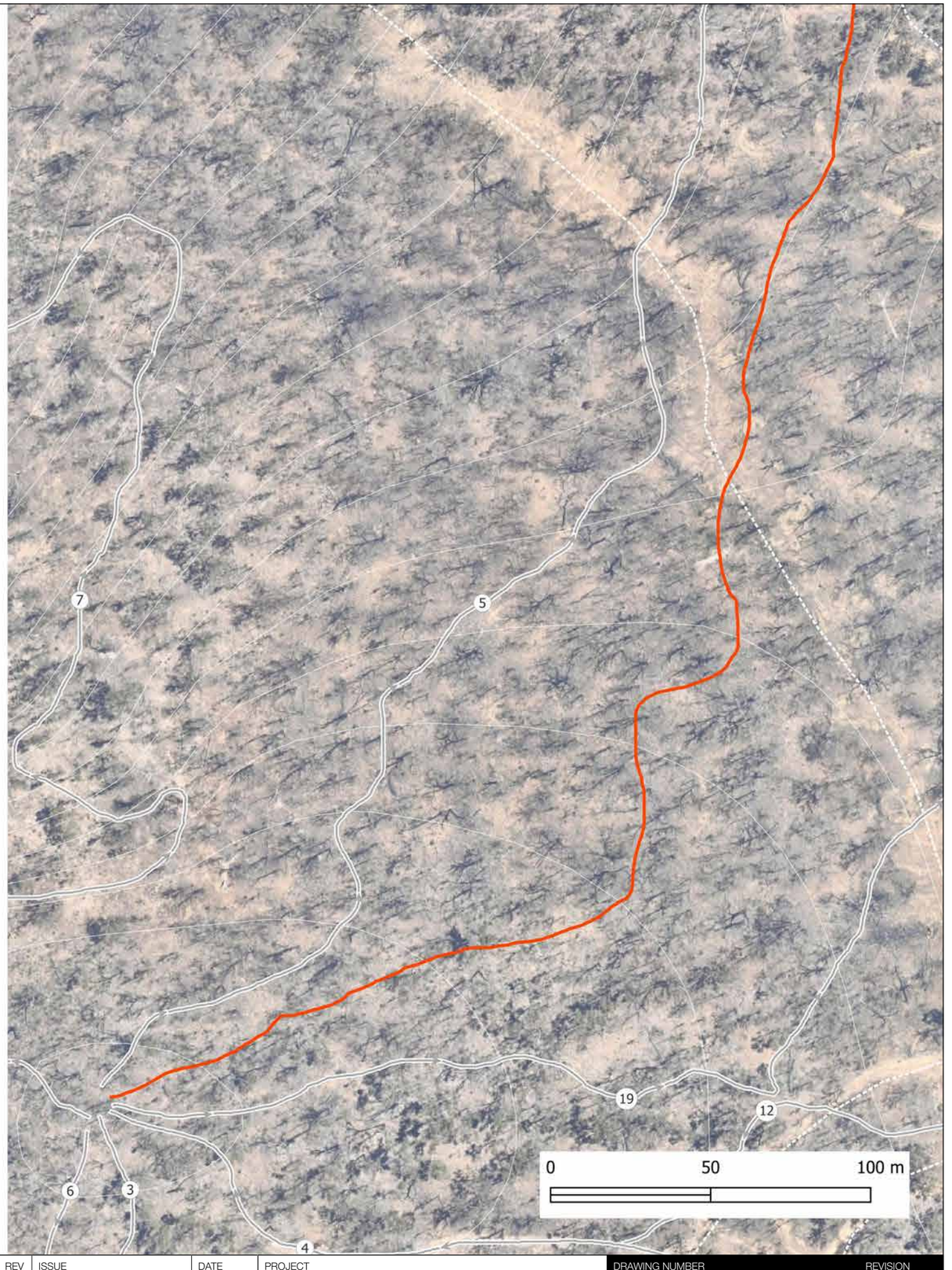
DRAWING TITLE
TRAIL 2 - DETAIL

DRAWING NUMBER
2336_DD8

REVISION
B

ISSUE
FINAL





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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 2 - DETAIL

DRAWING NUMBER
2336_DD9

REVISION
B

ISSUE
FINAL

Trail 3 - Shared Climb 2

Easy
Green Circle

Class 3

TRAIL DESCRIPTION

Trail 3 is a 2.4km easy shared use trail which is proposed to be single direction for cyclists and dual direction for walkers. Trail 3 traverses beside the dam from the Primary Trailhead through open forest before climbing to the Secondary trailhead. The trail will feature continuous rolling contour grade reversals and will not include any technical trail features. Switchbacks should be constructed with a platform center and a low level of gradient change between entry and exit. Switchback shortcutting must be considered and appropriate countermeasures must be undertaken at the time of construction through appropriate positioning of turns along with the installation of logs or rocks within the landscape to discourage shortcutting. Trail finish should be uniform with minimal camber to a width of 1.2m.

TRAIL DETAILS

Classification	Green Circle / Class 3
Trail Length	2,414m
Trail Type	XC - Open
Direction	Dual direction walk, single direction (climb) MTB
Site gradient	Low side slopes
Trail gradient	3%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,500mm
Finished trail tread width	1,200mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals

Rolling Grade Dips

Switchbacks

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

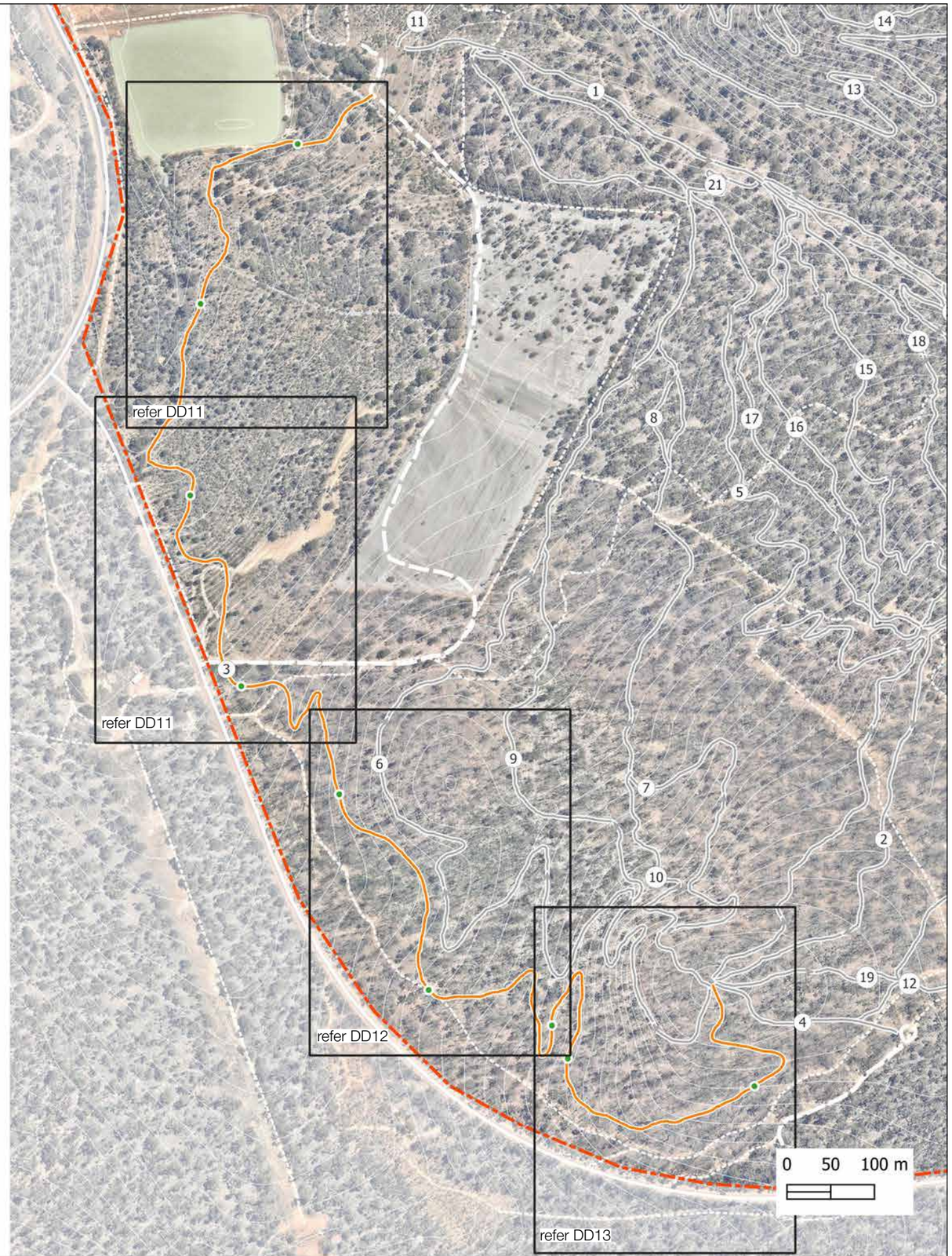
Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
3	1	0	Profile	Machine build through modified landscape containing windrow features. Build to mellow dips	0	0	0	Loam	
3	2	1623	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu soil
3	3	1675	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu
3	4	2204	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu
3	5	2307	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu
3	6	2420	Turn	Climbing switch back	0	0	0	Gravel loam	Insitu
3	7	2847	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu



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ACN 162352776

CLIENT

Shire of BODDINGTON
Flowing with Natural Beauty

SCALE
1:5500 at **A3**

DATE
19/12/2024

PROJECT NORTH

DRAWN
MW

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BC/BP

PROJECT NUMBER
2336

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A	DRAFT FOR REVIEW	06/12/2024
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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 3 - SUMMARY

DRAWING NUMBER
2336_DD10

REVISION
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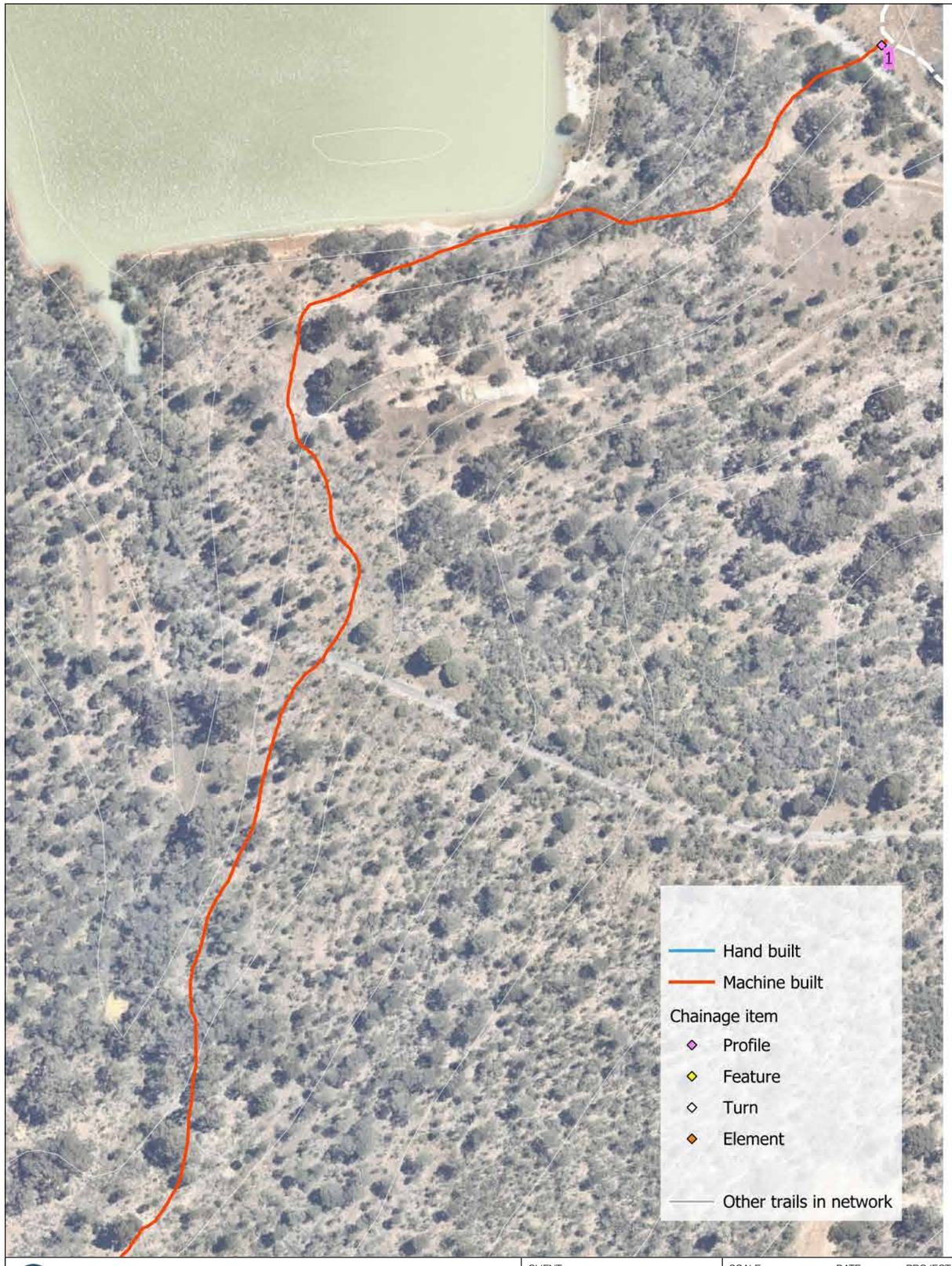

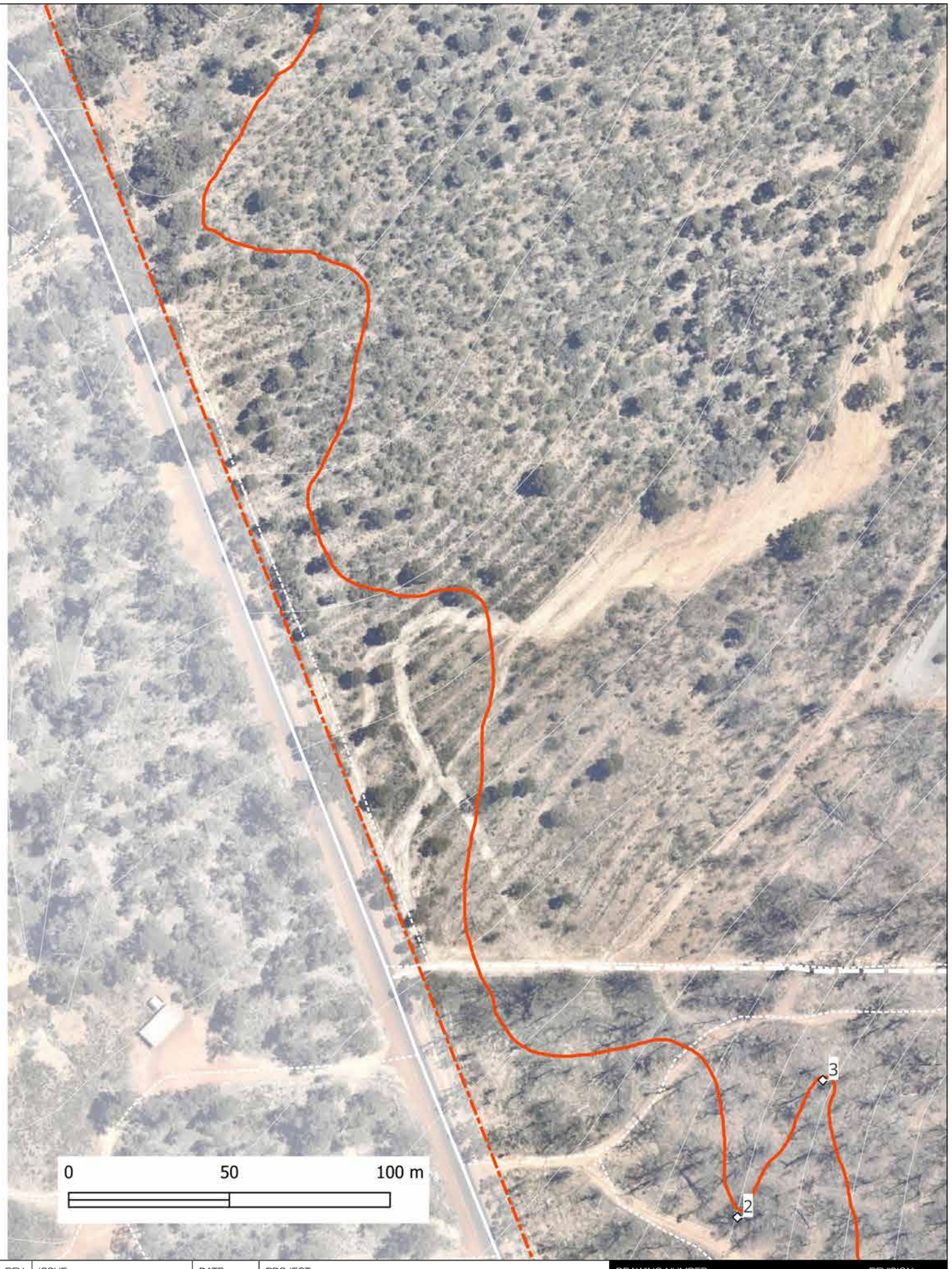

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 3 - DETAIL

DRAWING NUMBER
2336_DD11

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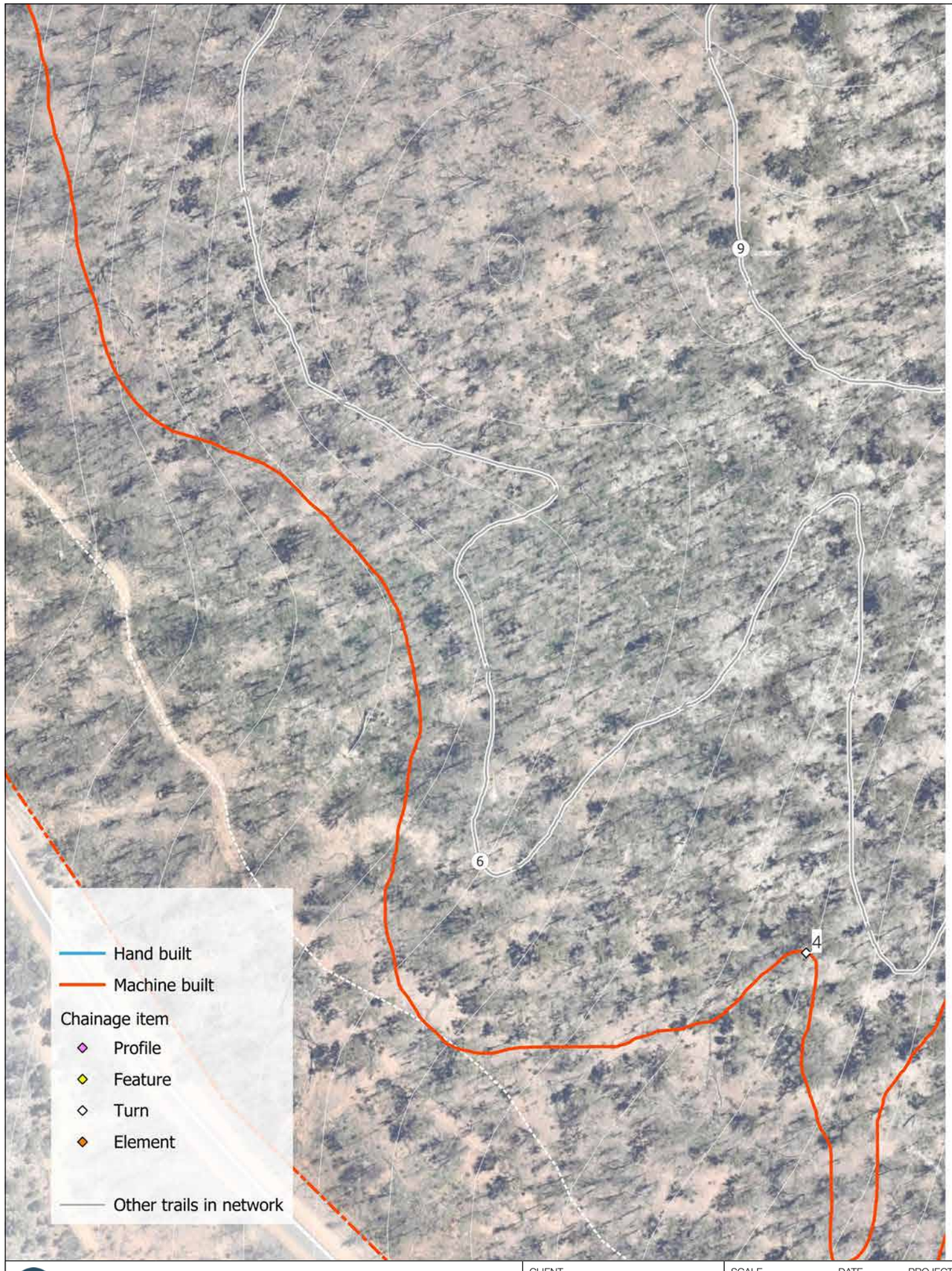

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 3 - DETAIL

DRAWING NUMBER
2336_DD12

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Trail 4 - Shuttle Link

Easy
Green Circle

TRAIL DESCRIPTION

Trail 4 is a 227m easy single direction trail which links the shuttle drop off to the Secondary trailhead. The trail is proposed to be an open functional trail getting riders to the top of the descending trails. The trail will feature few technical features and a smooth surface with typical finished width of 0.9m. The trail utilises an existing vehicle track, minimal construction will be required with half the vehicle track being used for the trail and the remainder rehabilitated.

TRAIL DETAILS

Classification	Green Circle
Trail Length	227m
Trail Type	XC - Open
Direction	Single direction (climb) MTB
Site gradient	Low side slopes
Trail gradient	1%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,000mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Rolling Grade Dips

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

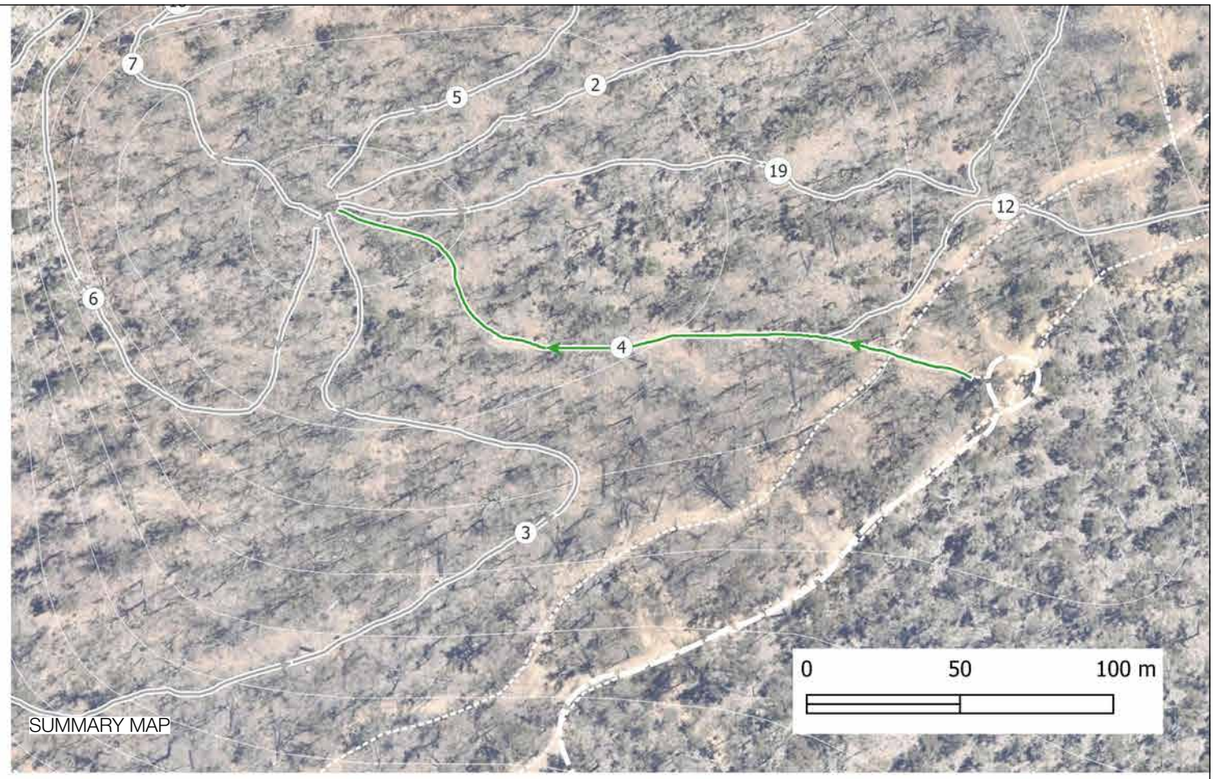
Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

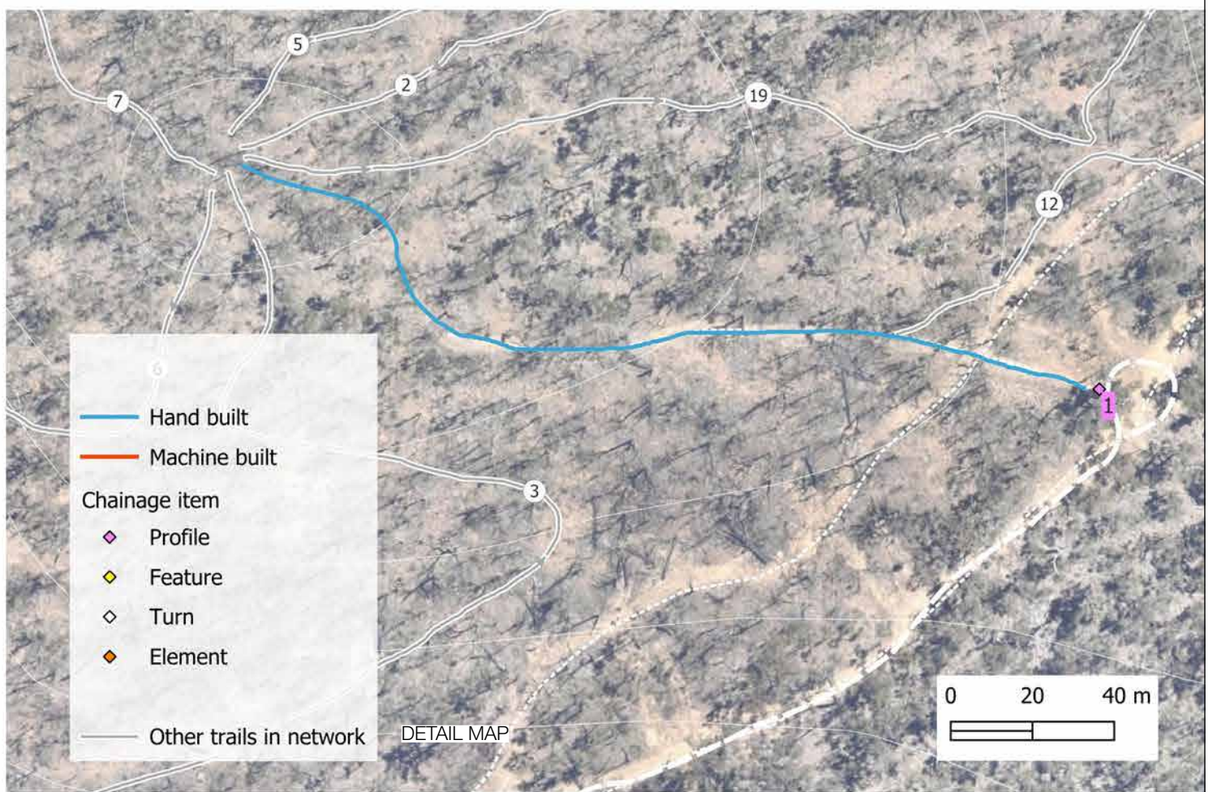
N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
4	1	0	Profile	Hand build. Existing vehicle track requires minimal works	0	0	0	Gravel loam	



SUMMARY MAP



DETAIL MAP

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 4 - SUMMARY

DRAWING NUMBER
2336_DD13

REVISION
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Trail 5 - Green Descent 1

Easy
Green Circle

TRAIL DESCRIPTION

Trail 5 is a 1.8km easy single direction descending trail offering a cross country experience focused on flowing features over natural terrain. Located on moderate side slopes, the shallow gradient trail switches back and forth on the hill linking to the middle node before descending back to the primary trailhead. It features descending switchback corners with flowy technical trail features and an open feel with typical finished width of 0.9m. The intent of this trail is to introduce riders to the more advanced features on the intermediate trails in the network, providing opportunity for progression. The trail speed should allow riders to tackle features with confidence.

TRAIL DETAILS

Classification	Green Circle
Trail Length	1,873m
Trail Type	XC - flowing
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	4%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Rock garden
Rock rollover
Step Up

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

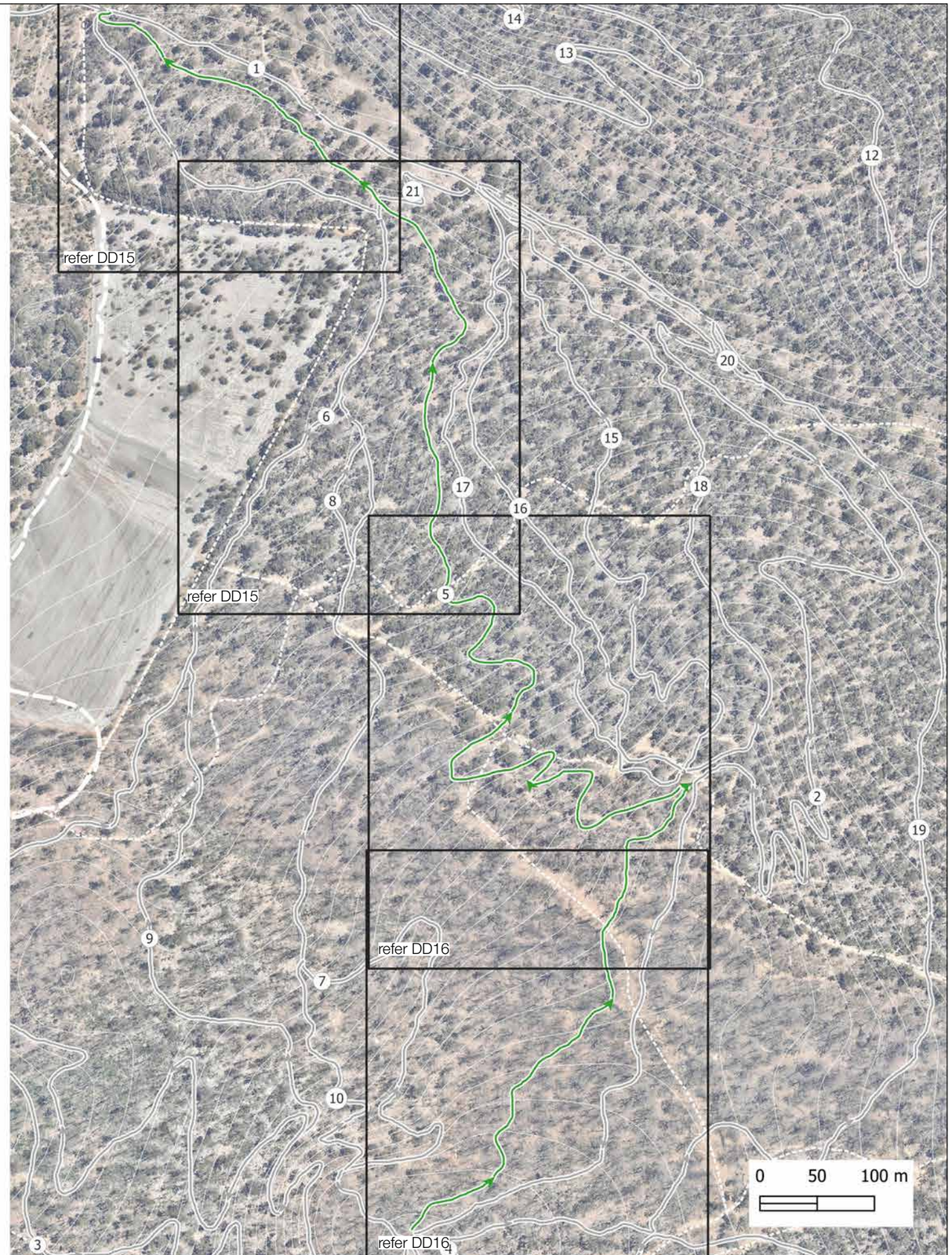
Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
5	1	0	Profile	Machine build	0	0	0	Gravel loam floating rock	
5	2	85	Feature	Rock roll over use locally won rock to smooth out	1500	50	700	Gravel loam	Insitu and locally won rock
5	3	117	Feature	Utilise insitu rock for rocky tread/ rock garden	4000	20	800	Gravel loam	Insitu rock
5	4	197	Feature	Optional Rock rollover to rider right	1000	100	50	Gravel loam	Insitu rock
5	5	258	Feature	Optional rock roll over to rider left	1500	200	80	Gravel loam	Insitu and locally won rock
5	6	302	Feature	OptionI rock garden with more difficult line to rider left	1000	100	800	Gravel loam	Insitu and locally won rock
5	7	630	Feature	Some exposed rock to utilise as natural rollable feature	1000	50	800	Gravel loam	Insitu rock
5	8	730	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
5	9	766	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
5	10	902	Feature	Optional rollable low mellow rock garden	3000	50	800	Gravel loam	Insitu and local rock
5	11	1046	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
5	12	1664	Feature	Optional rock step up into garden use locally won rock to make intermediate level	1500	200	400	Gravel loam	Insitu rock
5	13	1703	Feature	Optional rock drop	500	200	500	Gravel loam	Insitu rock
5	14	1793	Profile	Hand build rocky section to road. Blow leaves and shift rock as required	0	0	0	Rocky	
5	15	1796	Feature	Rock garden down slope with optional more challenging lines off to each side	15000	200	600	Rocky	Insitu rock
5	16	1833	Profile	Machine build	0	0	0	Gravel loam	
5	17	1870	Element	Trail merge into existing road	0	0	0		



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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 5 - SUMMARY

DRAWING NUMBER
2336_DD14

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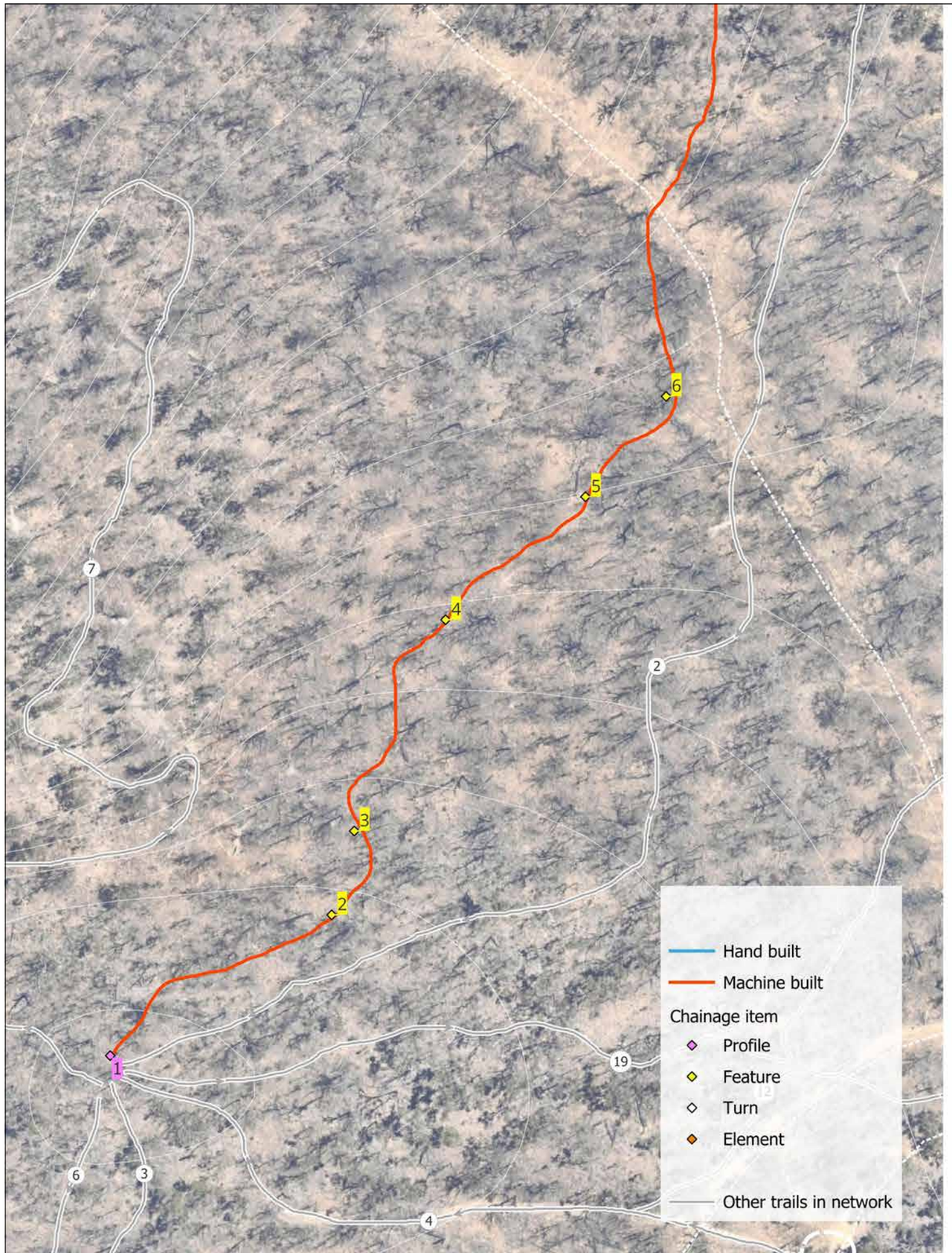

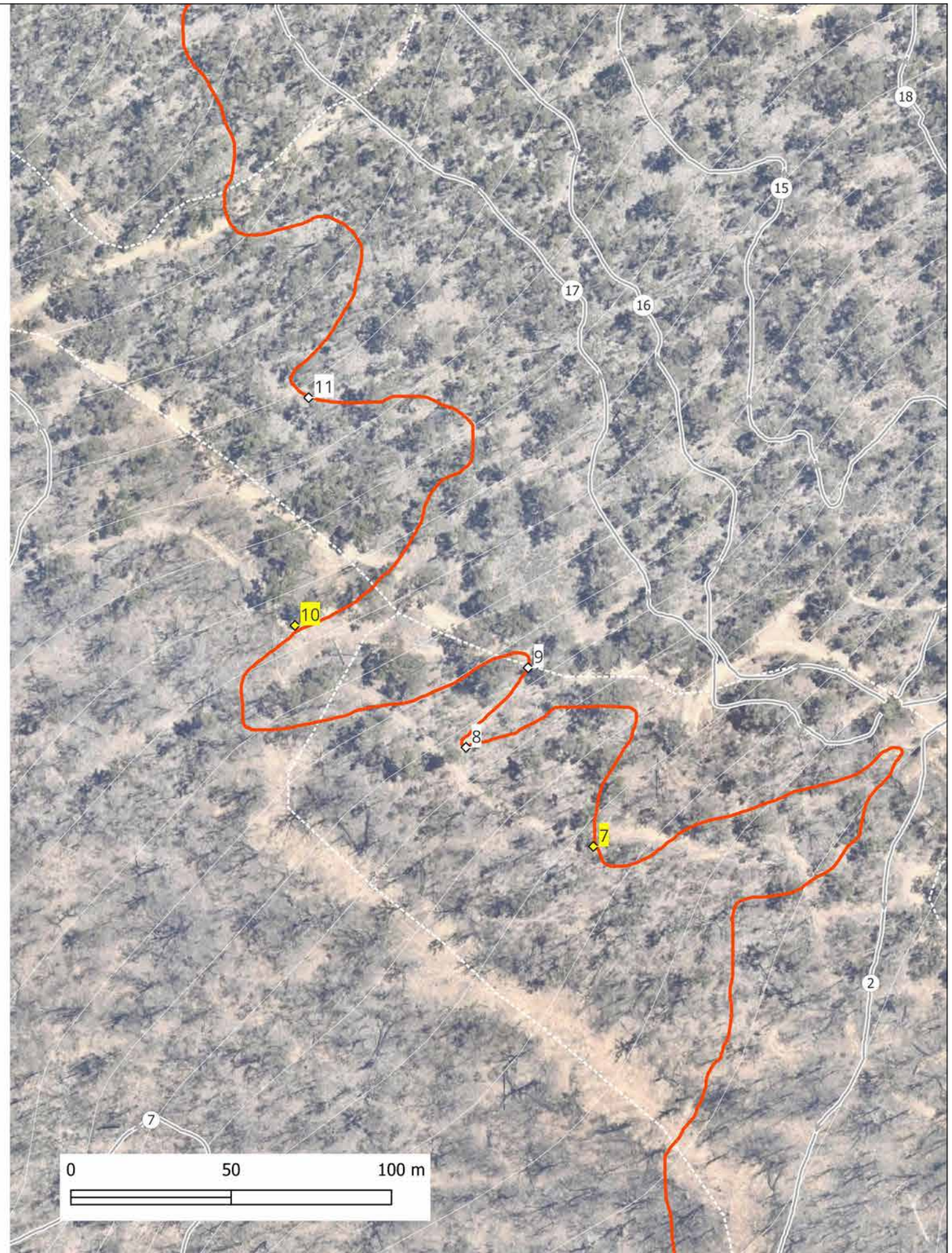

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 5 - DETAIL

DRAWING NUMBER
2336_DD15

REVISION
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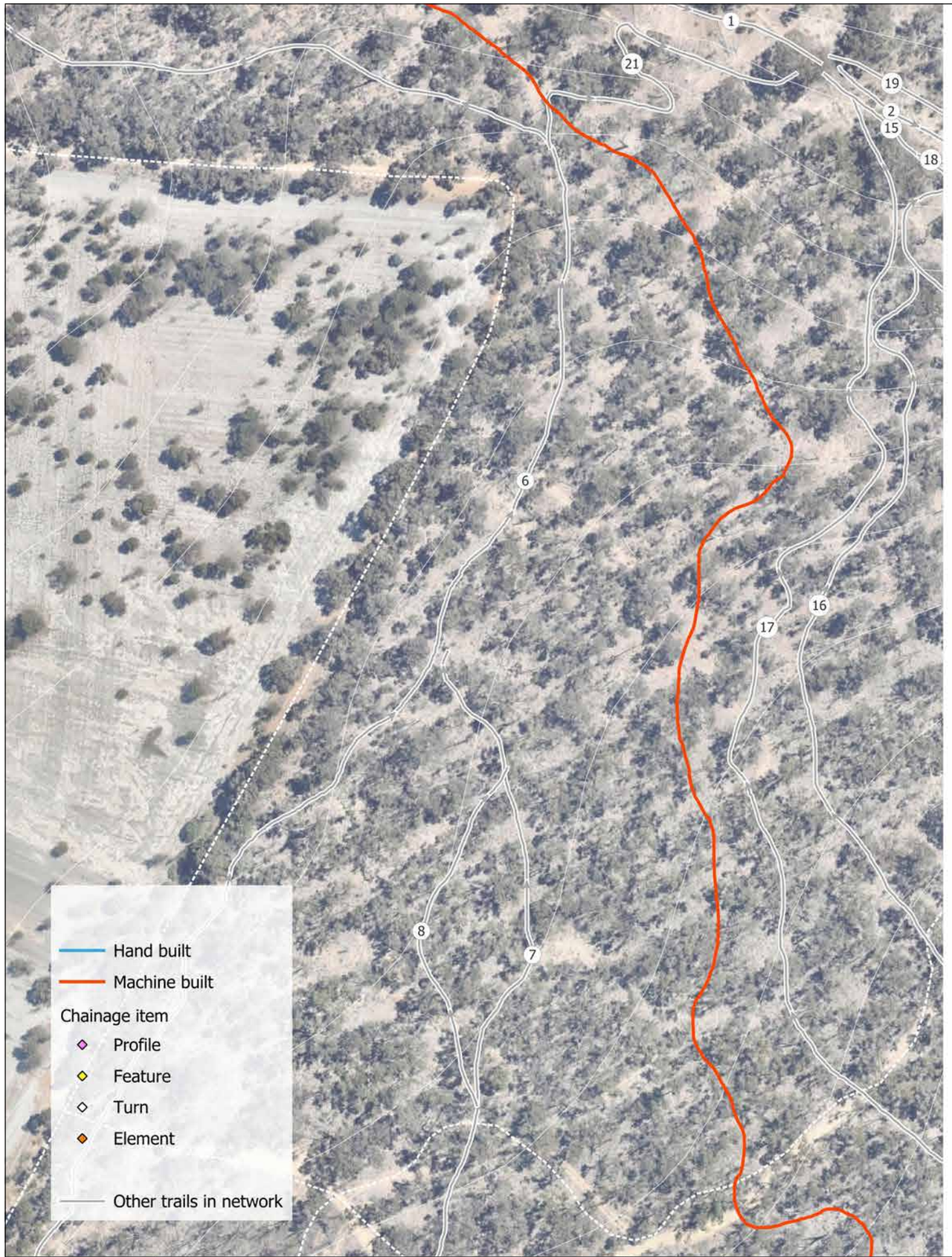

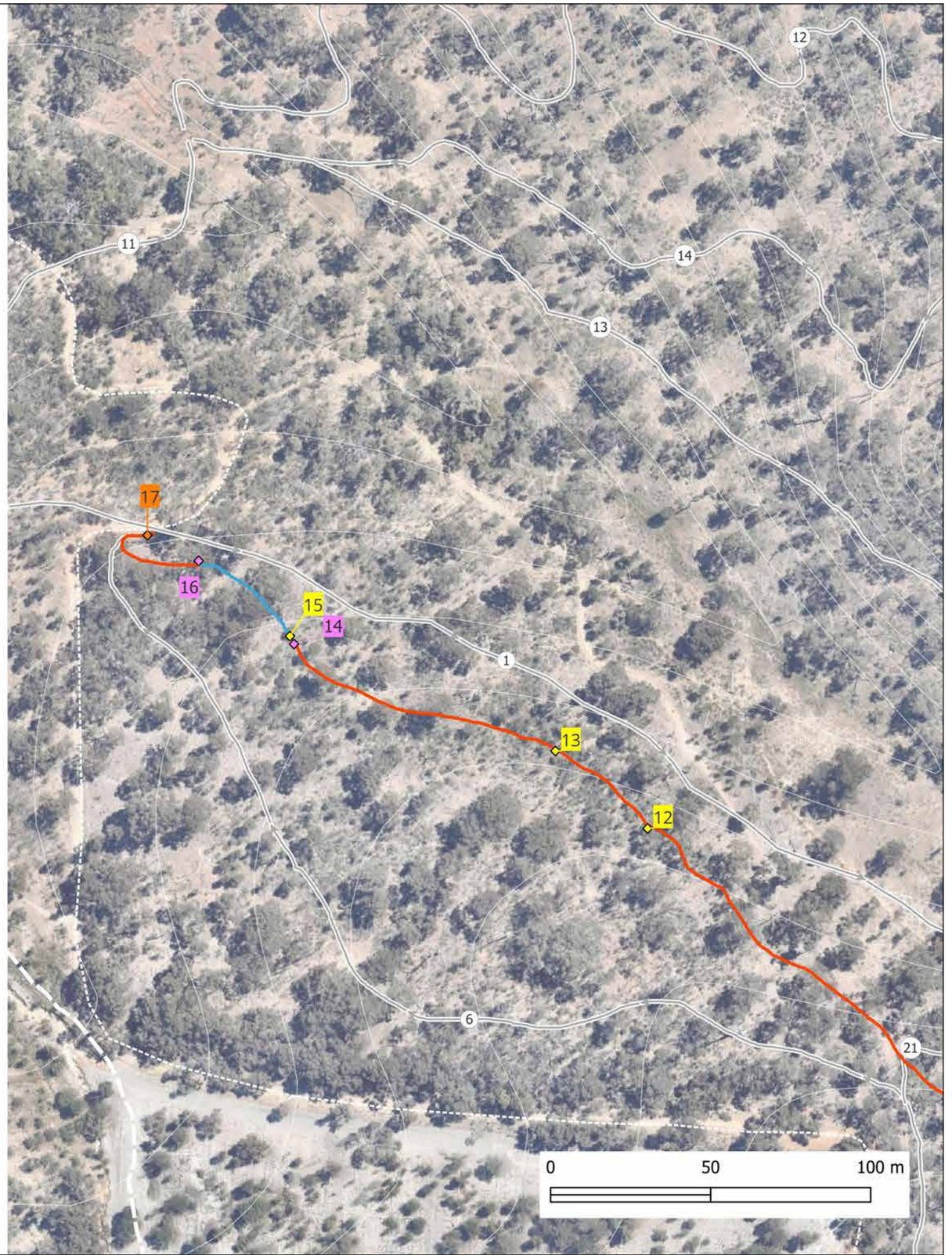

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 5 - DETAIL

DRAWING NUMBER
2336_DD16

REVISION
B

ISSUE
FINAL

Trail 6 - Blue Descent 2

Intermediate
Blue Square

TRAIL DESCRIPTION

Trail 6 is a 2.3km moderate single direction descending trail offering a repeatable cross country experience focused on technical trail over rocky natural terrain. Located in generally moderate side slopes, linking the Secondary Trailhead back to the Primary Trailhead. The trail utilises natural terrain features to provide unique challenges that reward the skilled rider, and provide the opportunity to train the less skilled rider. Short climb sections should encourage the rider to exert maximum effort to unlock speed in the following section, therefore the trail rewards technical ability and fitness. Descending sections should be constructed to maintain speed if the features are unlocked. Nominal finished trail width should be 0.9m and technical feature sections may incorporate a varied surface.

TRAIL DETAILS

Classification	Blue square
Trail Length	2,326m
Trail Type	XC - technical
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	3%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Rock garden
Rock rollover
Hipped roller

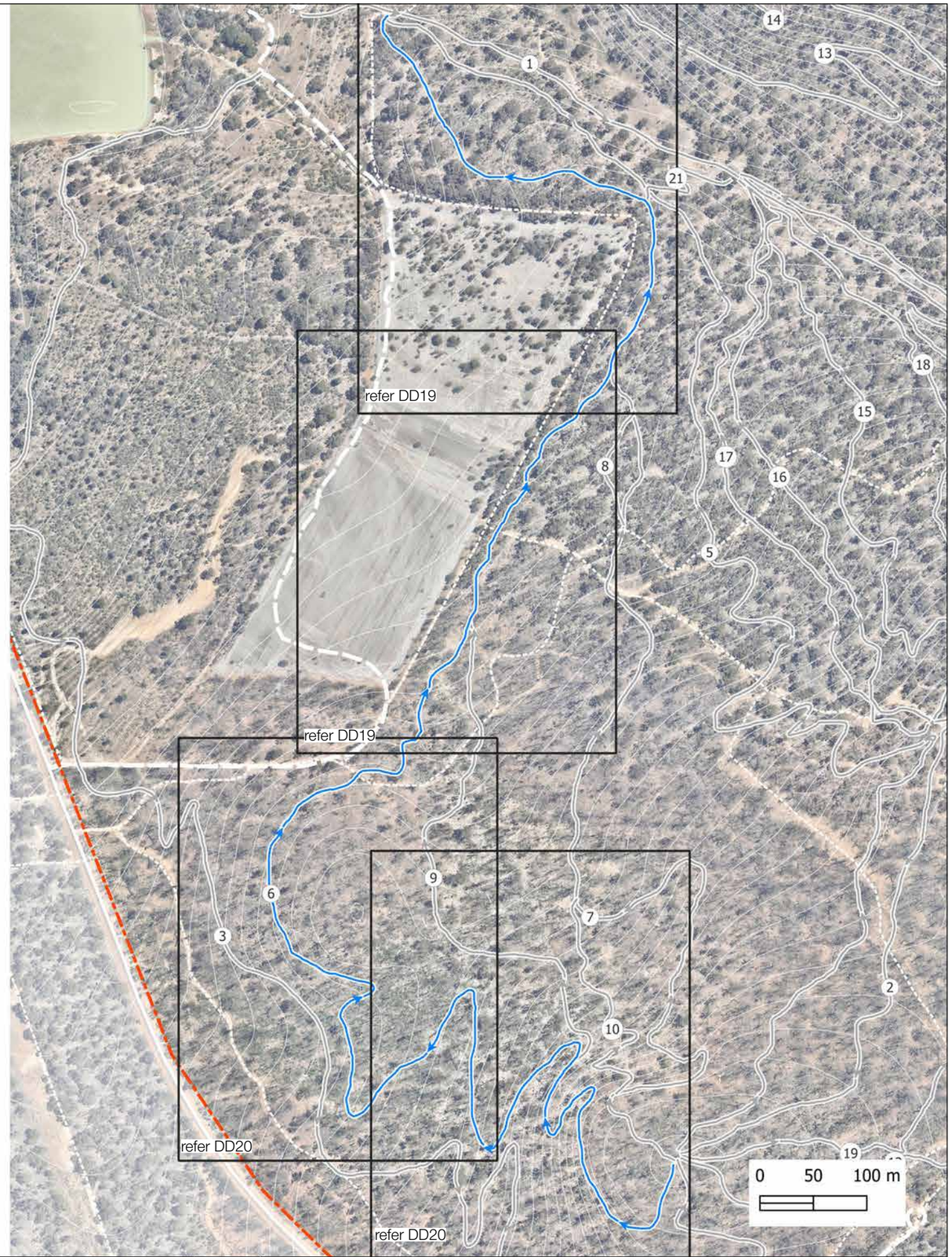
TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A



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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 6 - SUMMARY

DRAWING NUMBER
2336_DD17

REVISION
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Trail 6 - Blue Descent 2

Intermediate
Blue Square

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
6	1	0	Profile	Machine build	0	0	0	Gravel loam	
6	2	59	Profile	Machine assisted rock section, minimal disturbance	0	0	0	Gravel loam	
6	3	70	Profile	Hand build, machine assisted rock section with multiple lines	0	0	0	Gravel loam	
6	4	80	Profile	Machine build, partial bench	0	0	0	Gravel loam	
6	5	160	Profile	Machine build, full bench	0	0	0	Gravel loam	
6	6	183	Profile	Machine build, partial bench	0	0	0	Gravel loam	
6	7	190	Profile	Hand build, machine assisted rock section	0	0	0	Gravel loam	
6	8	202	Profile	Machine build, partial bench	0	0	0	Gravel loam	
6	9	224	Feature	Rock features	0	200	0	Gravel loam	Insitu rock
6	10	234	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
6	11	245	Profile	Machine build, full bench	0	0	0	Gravel loam	
6	12	289	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
6	13	302	Element	Remove fallen tree	0	0	0		
6	14	327	Profile	Machine build, partial bench	0	0	0	Gravel loam	
6	15	393	Feature	Blue rock drop, fill landing to blue specifications	0	400	0	Gravel loam	Insitu rock
6	16	399	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
6	17	412	Turn	Catch turn	0	0	0	Gravel loam	Locally won soil
6	18	532	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
6	19	679	Turn	Descending Switchback	0	0	0	Gravel loam	Insitu
6	20	849	Turn	Descending Switchback	0	0	0	Gravel loam	Insitu
6	21	966	Turn	Switchback climb, remove fallen tree on exit	0	0	0	Gravel loam	Insitu
6	22	1000	Turn	Switchback	0	0	0	Gravel loam	Insitu
6	23	1038	Profile	Chainsaw to remove fallen trees	0	0	0	Gravel loam	
6	24	1098	Feature	Rock garden	0	200	0	Gravel loam	Insitu rock
6	25	1127	Feature	Rock garden	0	200	0	Gravel loam	Insitu rock
6	26	1241	Profile	Hand build rock section	0	0	0	Gravel loam	
6	27	1247	Profile	Machine build	0	0	0	Gravel loam	
6	28	1347	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
6	29	1372	Feature	Hip roller	0	600	0	Gravel loam	Locally won soil
6	30	1393	Feature	Rising catch turn onto existing bench	0	0	0	Gravel loam	Locally won soil
6	31	1413	Feature	Rollable hip double	0	600	0	Gravel loam	Locally won soil
6	32	1693	Profile	Flatten existing piles for trail surface	0	0	0	Gravel loam	
6	33	1806	Element	Trail 7 merges in	0	0	0		
6	34	1976	Element	Decision point blue straight green link to centre node right	0	0	0		
6	35	2134	Feature	Two natural mounds to be utilised as an optional hip double/roller to riders left. Enough material to shape a takeoff and landing without importing.	5000	1000	0	Gravel loam	Insitu soil

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 6 - SUMMARY

DRAWING NUMBER
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Hand built
Machine built
Chainage item
Profile
Feature
Turn
Element
Other trails in network
0
50
100 m

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PROJECT
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DRAWING TITLE
TRAIL 6 - DETAIL

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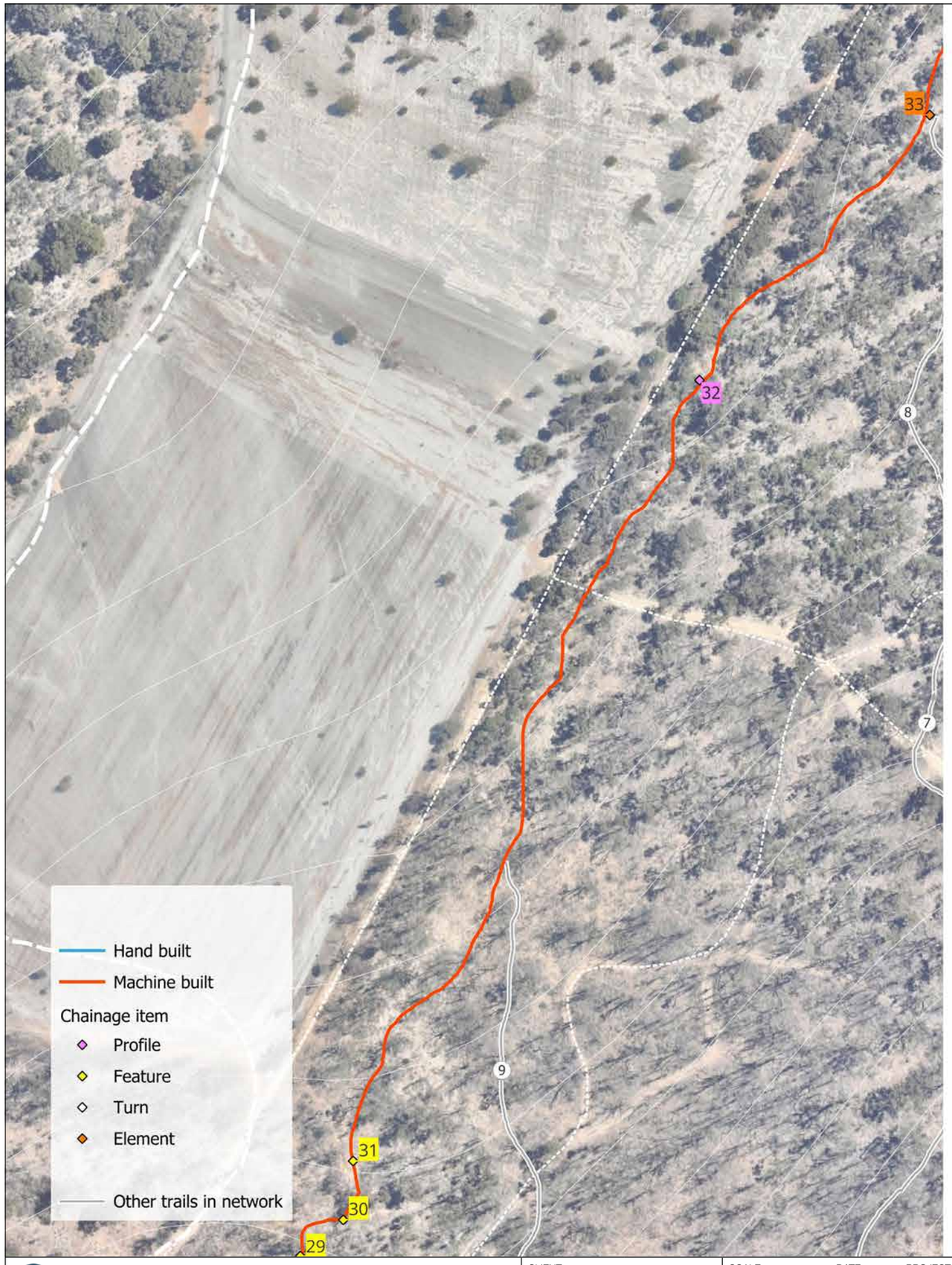

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PROJECT
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DRAWING TITLE
TRAIL 6 - DETAIL

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2336_DD20

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Trail 7 - Blue Descent 2

Intermediate
Blue Square

TRAIL DESCRIPTION

Trail 7 is a 1.1km moderate single direction descending trail offering a cross country experience focused on technical trail over rocky natural terrain. Located in generally moderate side slopes, starting from the Secondary trailhead the trail descends through rocky terrain into open forest with a section of jumps through an existing impacted area containing piles of soil before merging into Trail 6. The trail provides for a varied experience with the top section utilising natural rock and insitu log features for a technical challenge before the trail opens up allowing rider to build speed into the jump section. Nominal finished trail width should be 0.9m and technical feature sections may incorporate a varied surface.

TRAIL DETAILS

Classification	Moderate - Blue square
Trail Length	1,156m
Trail Type	XC - technical
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	5%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Rock garden
Rock rollover
Step Up
Log Ride
Roller Double

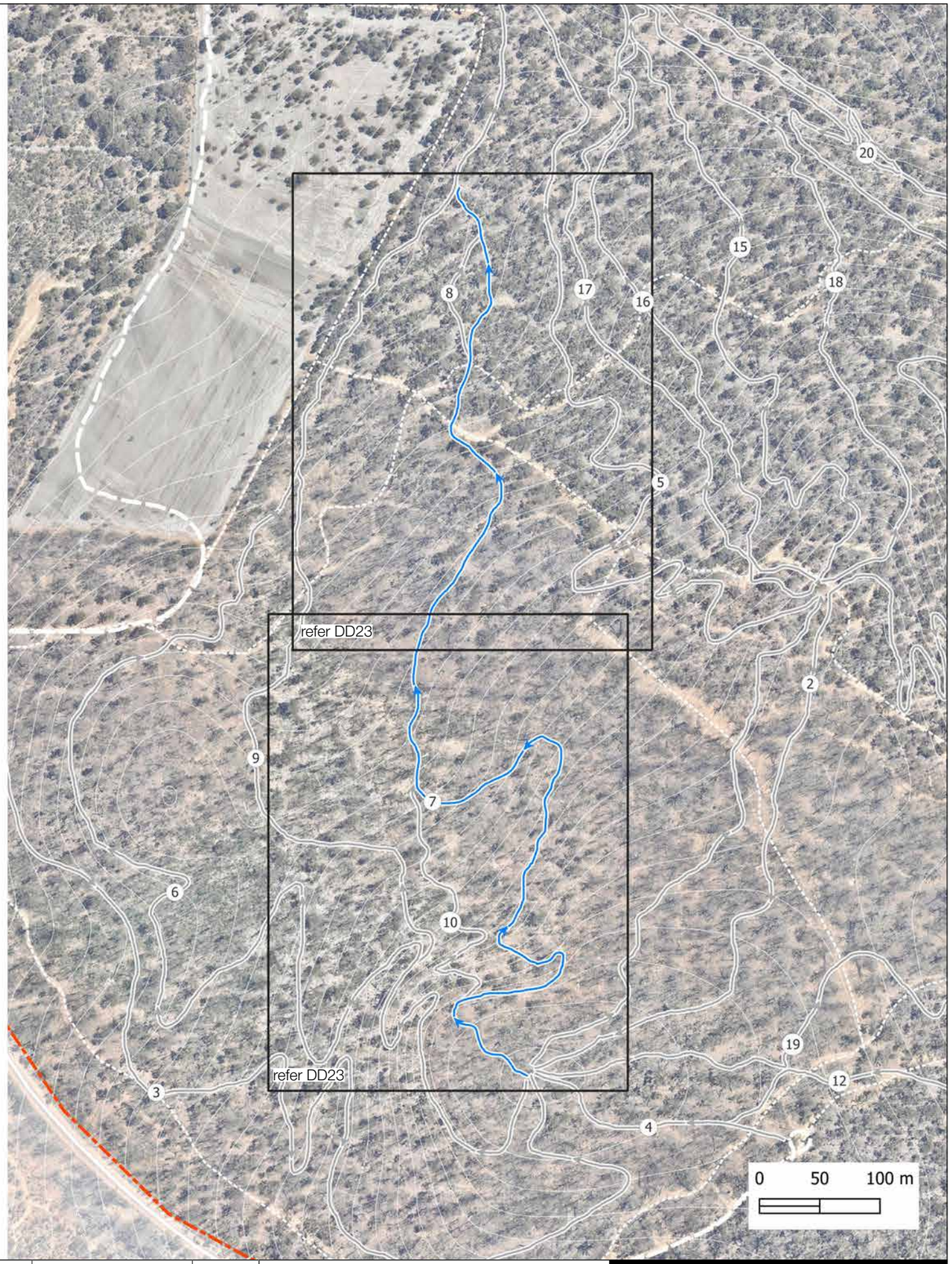
TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A



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SCALE
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DATE
19/12/2024

PROJECT NORTH

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PROJECT NUMBER
2336

REV	ISSUE	DATE
A	DRAFT FOR REVIEW	06/12/2024
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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 7 - SUMMARY

DRAWING NUMBER
2336_DD21

REVISION
B

ISSUE
FINAL

Trail 7 - Blue Descent 2

Intermediate
Blue Square

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
7	1	0	Profile	Machine build	0	0	0	Gravel loam	
7	2	120	Feature	Rock garden utilising insitu and locally won rock	9000	150	900	Gravel loam	Insitu rock
7	3	136	Profile	Hand build	0	0	0	Rocky	
7	4	143	Feature	Rock garden into rock drop utilising insitu rock. Use locally won rock as needed to make intermediate feature	1000	200	600	Rocky	Insitu and locally won rock
7	5	150	Profile	Machine build	0	0	0	Gravely	
7	6	205	Turn	Descending switchback turn	0	0	0	Gravel loam	Insitu
7	7	266	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
7	8	436	Feature	Rock garden with more difficult line option to rider right. Utilise insitu and locally won rock for both lines	5000	200	0	Rocky gravel	Insitu and locally won rock
7	9	599	Element	Trail 10 merges in from left	0	0	0		
7	10	621	Feature	Optional log ride feature, flatten top and score with chainsaw for grip. Source rock locally for entry and exit ramps	8000	500	400	Gravel loam	Insitu log, locally won rock
7	11	701	Feature	Rock garden. Bolster insitu rock with locally won	2000	100	700	Gravel loam	Insitu and locally won rock
7	12	860	Profile	Hand build	0	0	0	Rocky	
7	13	862	Feature	Rock garden tree gate, construct rock garden through tree gate moving insitu rock to suit trail then splits with main line to right and difficult line to rider left	2000	200	1500	Rocky	Insitu rock
7	14	863	Feature	Rocky filter at trail split between blue and black optional lines	0	200	0	Gravel loam	Insitu rock
7	15	867	Feature	Hand constructed rock garden	0	200	0	Gravel loam	Insitu rock
7	16	877	Feature	Optional rock step up into rock garden on rider left	7000	200	400	Gravel loam	Insitu and locally won rock
7	17	879	Feature	Utilise insitu rock within trail ride line make rollable on main line with more difficult option to rider left	10000	200	600	Gravel loam	Insitu rock
7	18	896	Feature	Hand constructed rock garden	0	200	0	Gravel loam	Insitu rock
7	19	911	Element	Blue and black optional lines merge	0	0	0		
7	20	927	Feature	Rock garden	0	200	0	Gravel loam	Insitu rock
7	21	930	Feature	Rock garden turn to finish section move local rock to make suitable for intermediate rider	3000	100	600	Gravel loam	Insitu rock
7	22	942	Feature	Roller double	0	600	0	Gravel loam	Locally won soil
7	23	950	Profile	Machine build, note this section is a run into a jumps section, weave trail slightly to build rider speed as appropriate into the jumps	0	0	0	Gravel loam	
7	24	956	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
7	25	964	Turn	Berm	0	0	0	Gravel loam	Locally won soil
7	26	992	Element	Trail split into blue and black jump options	0	0	0	Gravel loam	
7	27	1000	Feature	Table top jump as first feature in jump line set. Utilise insitu pile of soil. Difficult line splits to left and intermediate to right after this feature	2000	1500	3000	Gravel loam	Insitu soil
7	28	1016	Feature	Blue roller double	0	600	0	Gravel loam	Locally won soil
7	29	1022	Feature	Double with slight hipped landing to align with next jump	0	600	0	Gravel loam	Locally won soil
7	30	1027	Feature	Blue roller double	0	600	0	Gravel loam	Locally won soil
7	31	1109	Element	Trail merge from optional lines through jump set	0	0	0		
7	32	1115	Element	Trail merge blue xc comes in from rider left	0	0	0		

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A	DRAFT FOR REVIEW	06/12/2024
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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 7 - SUMMARY

DRAWING NUMBER
2336_DD22

REVISION
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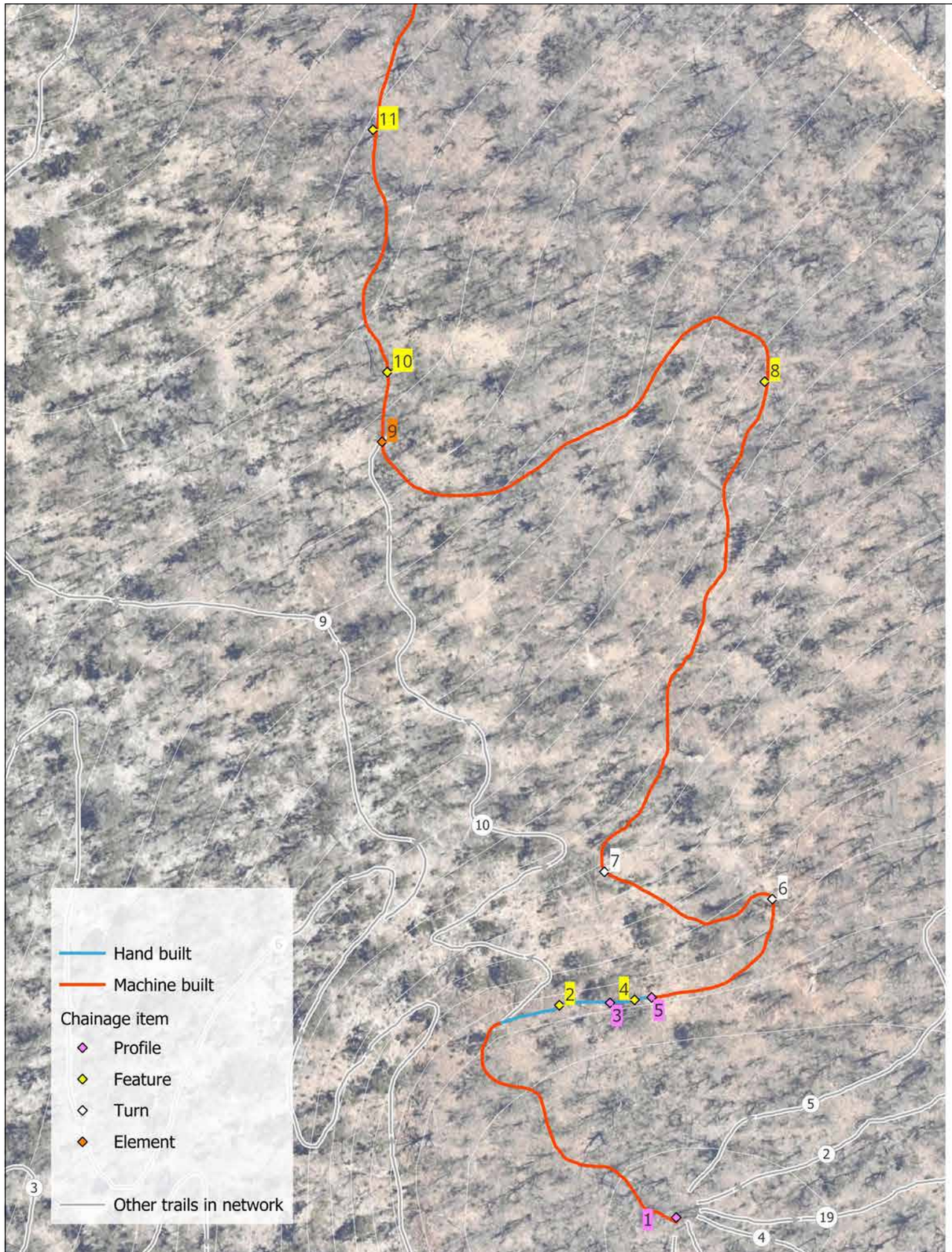

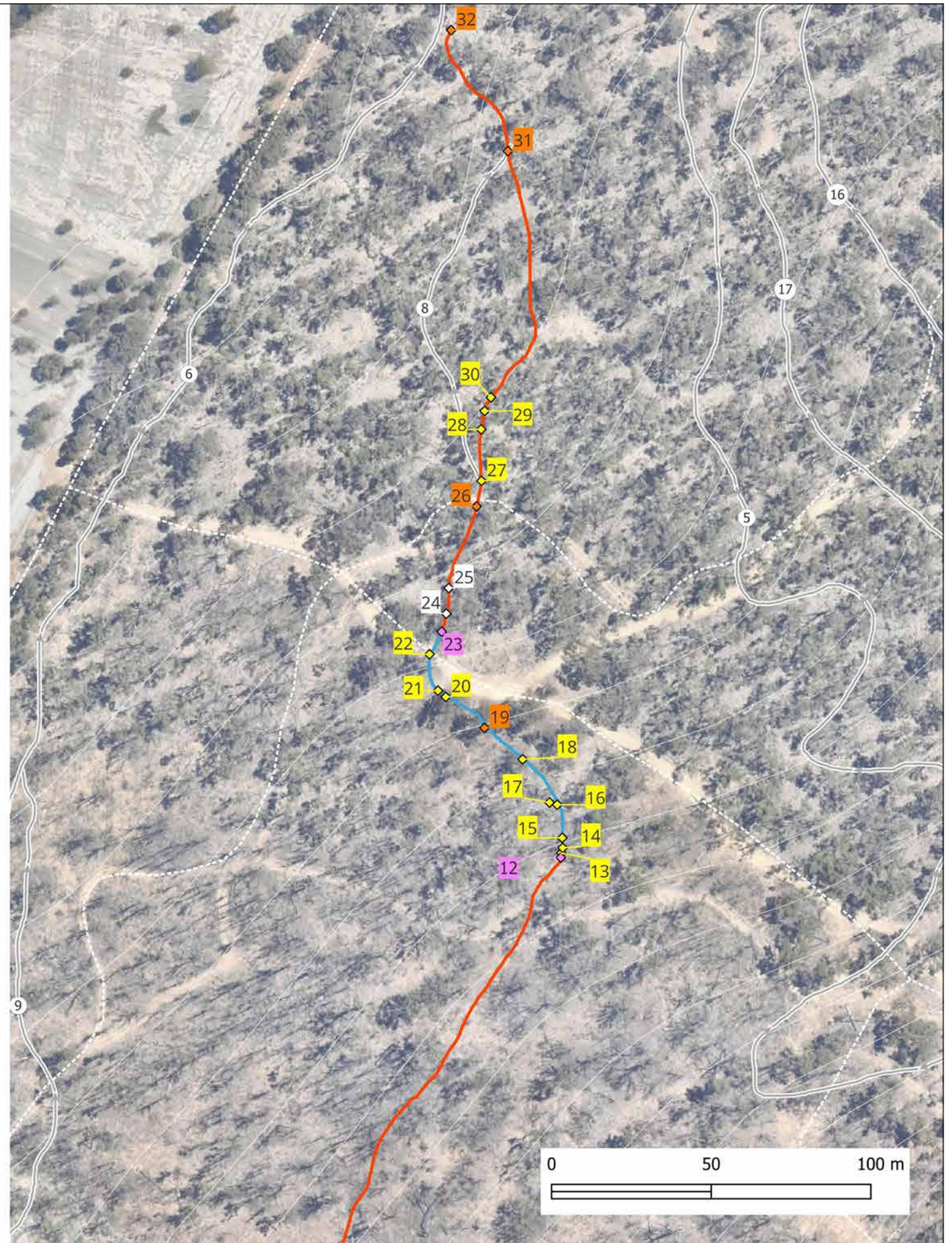

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A	DRAFT FOR REVIEW	06/12/2024
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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 7 - DETAIL

DRAWING NUMBER
2336_DD23

REVISION
B

ISSUE
FINAL

Trail 8 - Black Optional Line 1

Difficult
Black Diamond

TRAIL DESCRIPTION

Trail 8 is a short 117m optional black trail off Trail 7 through the impacted area containing piles of soil. It is proposed to utilise the piles to construct features classed black alongside similar features classed blue on trail 7 allowing for rider progression.

TRAIL DETAILS

Classification	Difficult - Black Diamond
Trail Length	117m
Trail Type	XC - technical
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	2%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Step Up Jump
Hip Jump

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

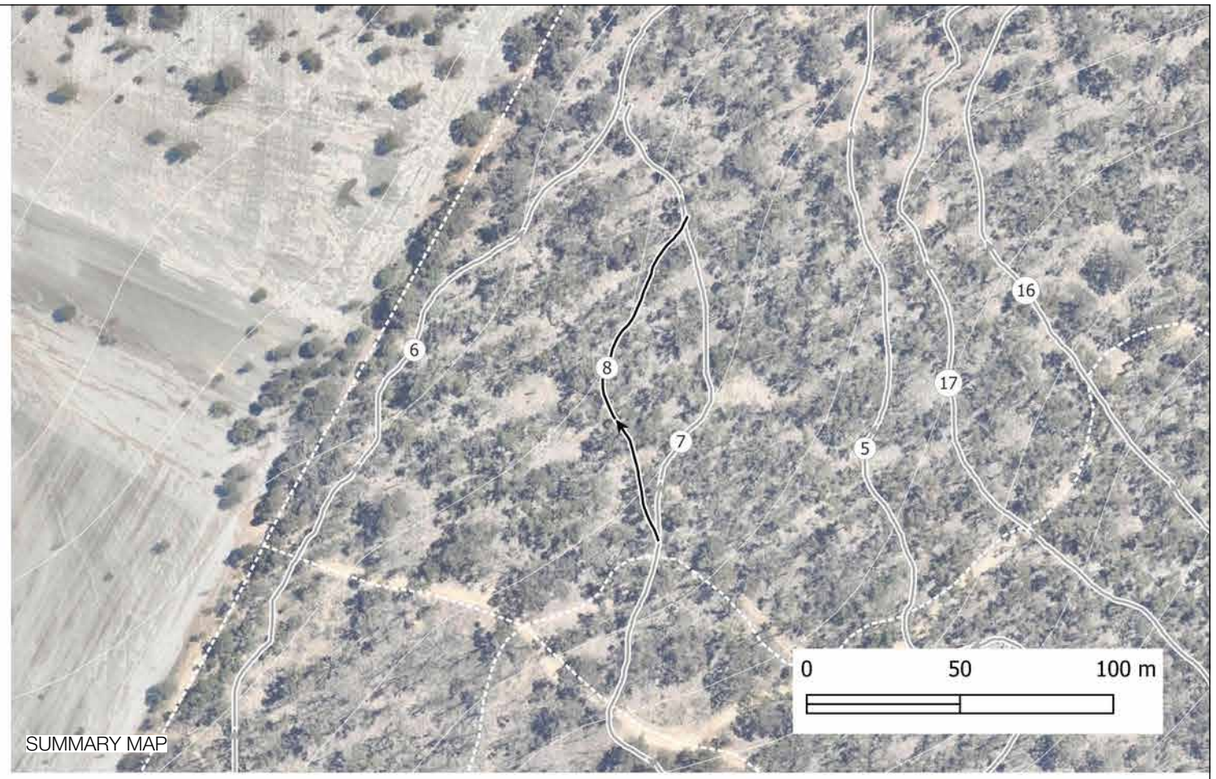
Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

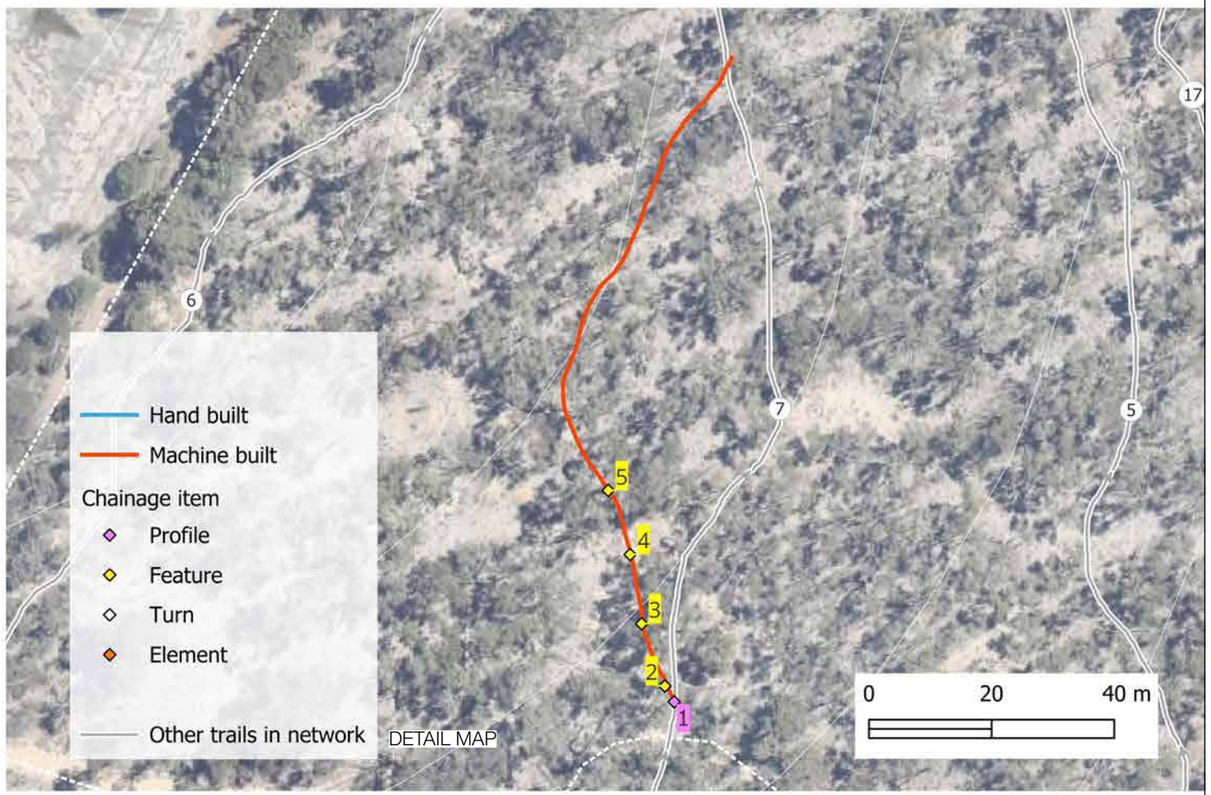
N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
8	1	0	Profile	Machine build	0	0	0	Gravel loam	
8	2	3	Feature	Black step up jump	0	700	0	Gravel loam	Locally won soil
8	3	14	Feature	Rollable step down, remove buried logs in existing lip	0	1500	0	Gravel loam	Locally won soil
8	4	25	Feature	Roller	0	800	0	Gravel loam	Locally won soil
8	5	37	Feature	Hip jump. Move existing pile further back to construct lip, landing in existing location approximately	0	800	0	Gravel loam	Locally won soil



SUMMARY MAP



DETAIL MAP

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 8 - SUMMARY

DRAWING NUMBER
2336_DD24

REVISION
B

ISSUE
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Trail 9 - Blue Descent 3

Intermediate
Blue Square

TRAIL DESCRIPTION

Trail 9 is a 553m moderate single direction descending trail offering a high speed cross country experience focused on flowing trail over natural terrain. Located in generally moderate side slopes, the trail will feature flowy technical trail features and a variable surface with typical finished width of 0.9m. This trail is intended to be a higher speed option off Trail 6.

TRAIL DETAILS

Classification	Moderate - Blue square
Trail Length	553m
Trail Type	XC - flowing
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	6%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Step down

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

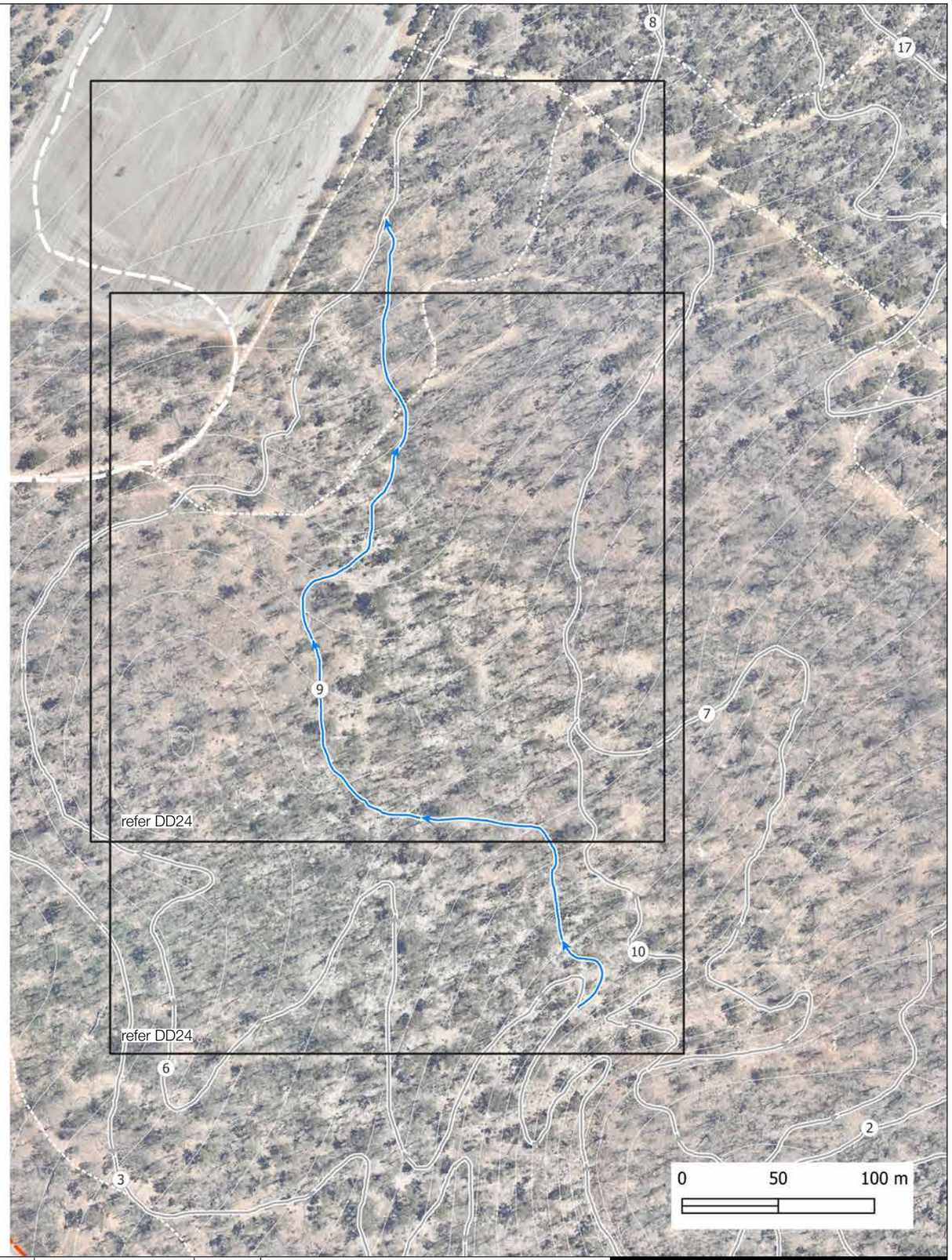
Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
9	1	0	Profile	Machine build green tape	0	0	0	Gravel loam	
9	2	22	Turn	Berm turn	0	0	0	Gravel loam	Insitu
9	3	49	Feature	Rollable step down as optional side feature to main line	0	1000	0	Gravel loam	Locally won soil
9	4	552	Element	Trail merges with Trail 6					



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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 9 - SUMMARY

DRAWING NUMBER
2336_DD25

REVISION
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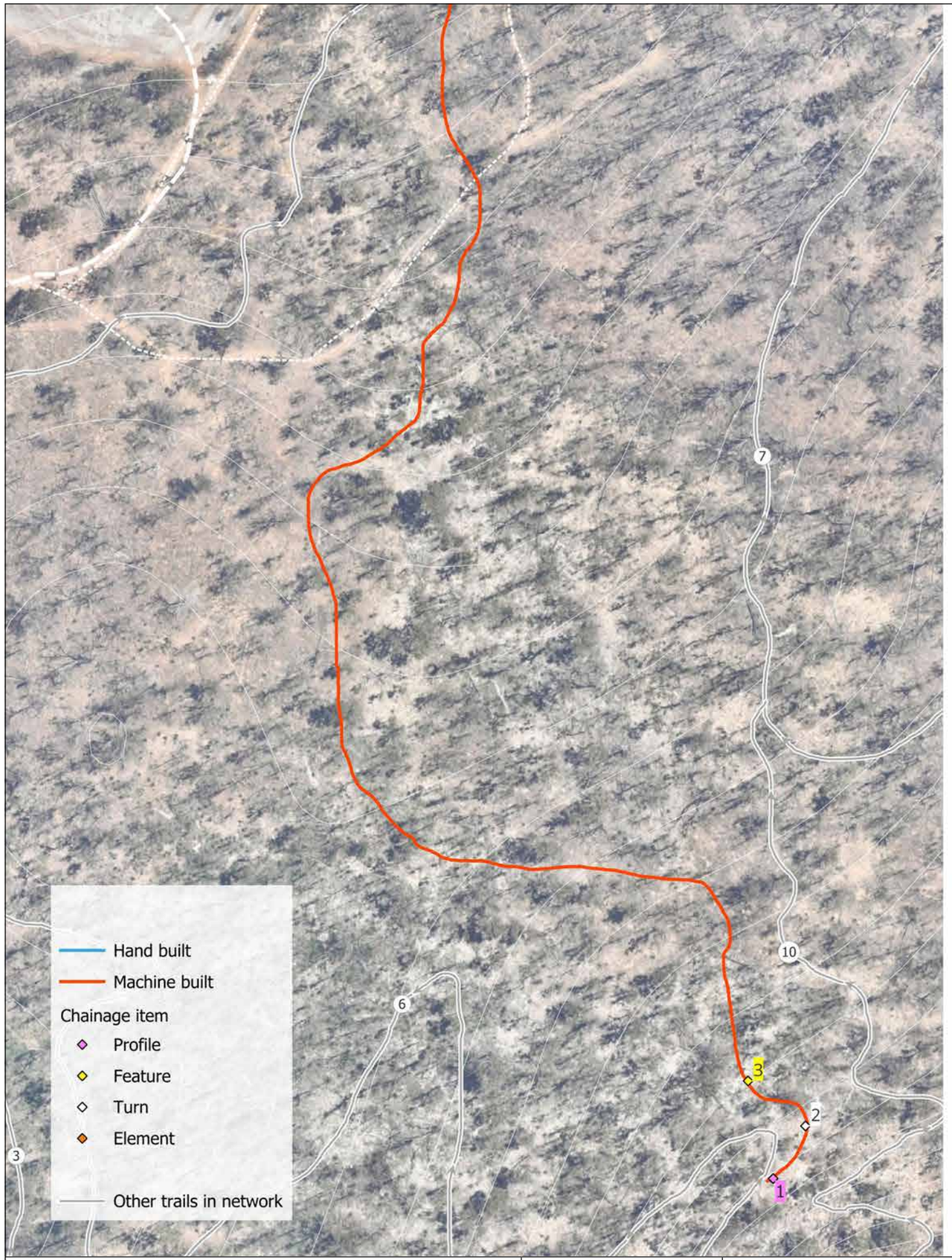

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 9 - DETAIL

DRAWING NUMBER
2336_DD26

REVISION
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ISSUE
FINAL

Trail 10 - Black Descent 1

Difficult
Black Diamond

TRAIL DESCRIPTION

Trail 10 is a short 287m difficult single direction descending trail offering a steep technical cross country experience. Located in generally steep side slopes, the trail starts from Trail 7 and rejoins Trail 7. It features numerous technical trail features over a largely natural surface. Care should be taken to minimise unnecessary excavation, and the corridor should be kept tight to the trail to enforce advanced bike manoeuvring skills. Though the finished surface width is specified to 0.6m, this may not be uniform throughout the trail, with turns and features providing multiple line opportunities for setup and execution.

TRAIL DETAILS

Classification	Difficult - Black diamond
Trail Length	287m
Trail Type	XC - technical
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	10%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	600mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Rock garden
Hip Jump
Step Up
Log Rollover
Roller Double

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
10	1	0	Profile	Hand built	0	0	0	Rocky	
10	2	3	Feature	Rock garden. Chainsaw log and move to the low side to block cutting trail below	0	700	0	Gravel loam	Insitu rock
10	3	13	Turn	Multiple line choice corner with main line catch turn at the bottom	0	0	0	Gravel loam	Locally won soil
10	4	19	Profile	Machine assisted benching to maintain hand built feel	0	0	0	Gravel loam	
10	5	29	Profile	Off camber, minimal benching, hand built	0	0	0	Gravel loam	Insitu
10	6	54	Turn	Tight descending switchback with multiple entrances	0	0	0	Gravel loam	Locally won soil
10	7	61	Profile	Machine built partial bench	0	0	0	Gravel loam	
10	8	131	Feature	Log across trail, cut small limbs to remove, make log rollover to 45 degrees to trail direction	0	300	0	Gravel loam	Insitu log
10	9	139	Turn	Catch turn	0	0	0	Gravel loam	Locally won soil
10	10	147	Profile	Machine built	0	0	0	Gravel loam	
10	11	159	Feature	Hip jump	0	2000	0	Gravel loam	Locally won soil
10	12	181	Feature	Roller double	0	800	0	Gravel loam	Locally won soil
10	13	201	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
10	14	217	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
10	15	227	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
10	16	24	Feature	Roller double	0	800	0	Gravel loam	Locally won soil
10	17	252	Turn	Catch turn	0	0	0	Gravel loam	Locally won soil
10	18	286	Element	Merge in Trail 7	0	0	0		

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 10 - SUMMARY

DRAWING NUMBER
2336_DD27

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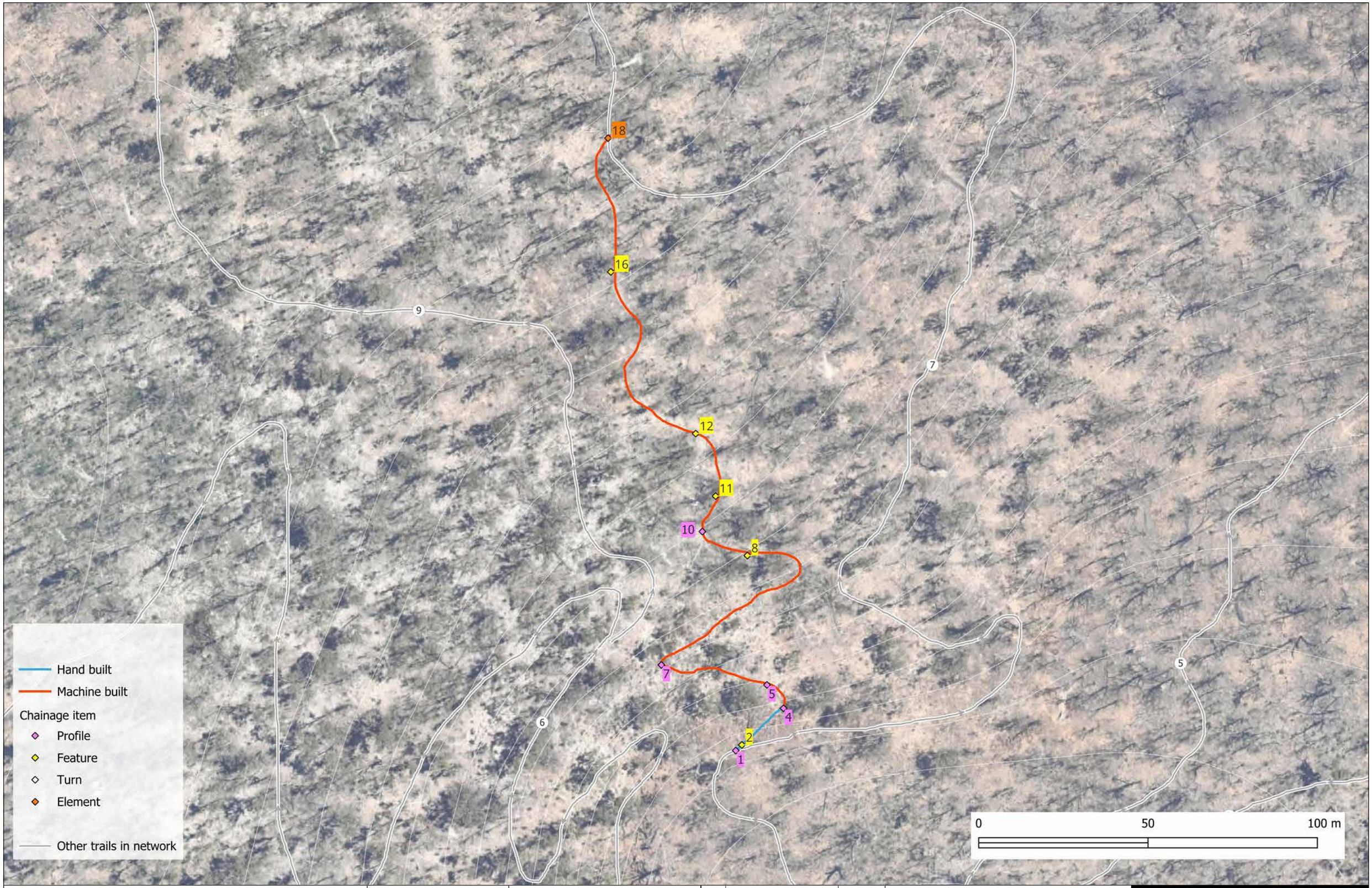

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 10 - DETAIL

DRAWING NUMBER
2336_DD28

REVISION
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Trail 11 - Primary Trailhead - Northern Node Link

Easy
Green Circle

TRAIL DESCRIPTION

Trail 11 is a short dual direction link trail, 176m from the primary trailhead to the northern node. The trail will not provide any TTFs and will be constructed with continuous rolling contour grade reversals to a uniform width of 1.2m. Speed should be managed for the descending riders and sight lines should be kept open and clear.

TRAIL DETAILS

Classification	Easy - Green Circle
Trail Length	176m
Trail Type	XC - open
Direction	Dual direction
Site gradient	Low side slopes
Trail gradient	1%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals

Rolling Grade Dips

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

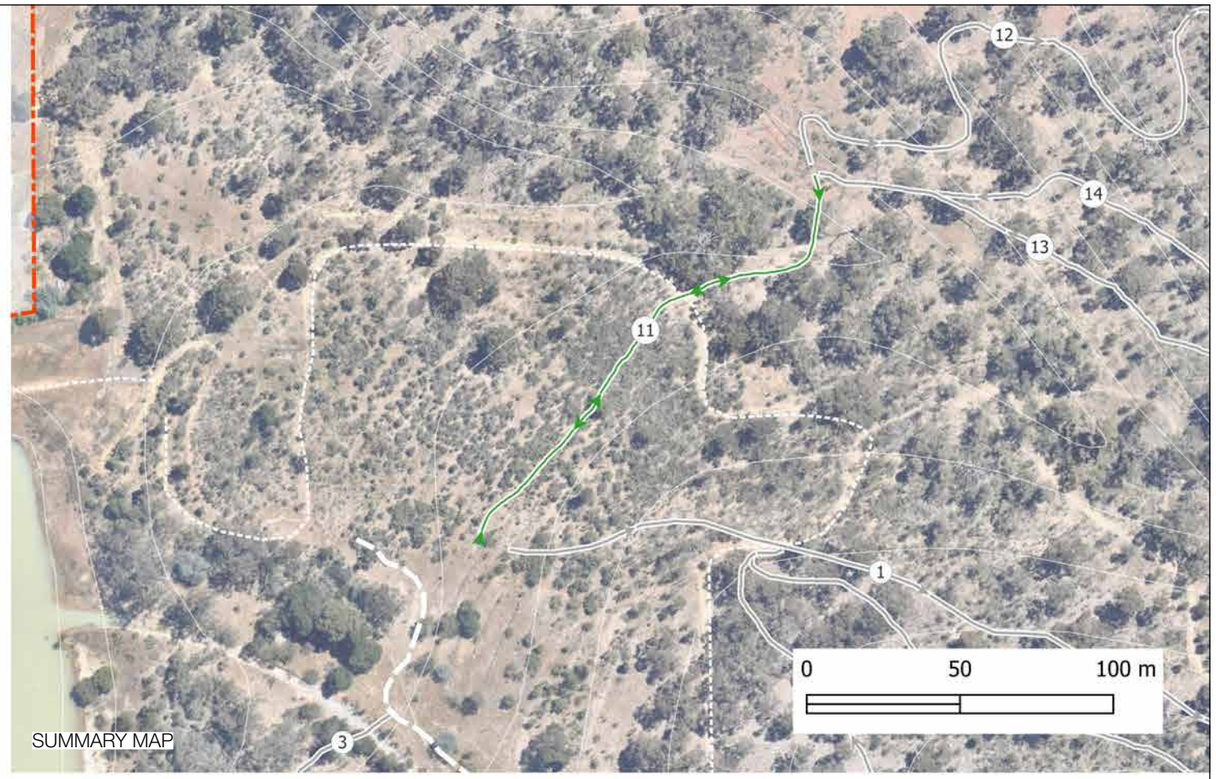
Machinery
- 1.7T Excavator

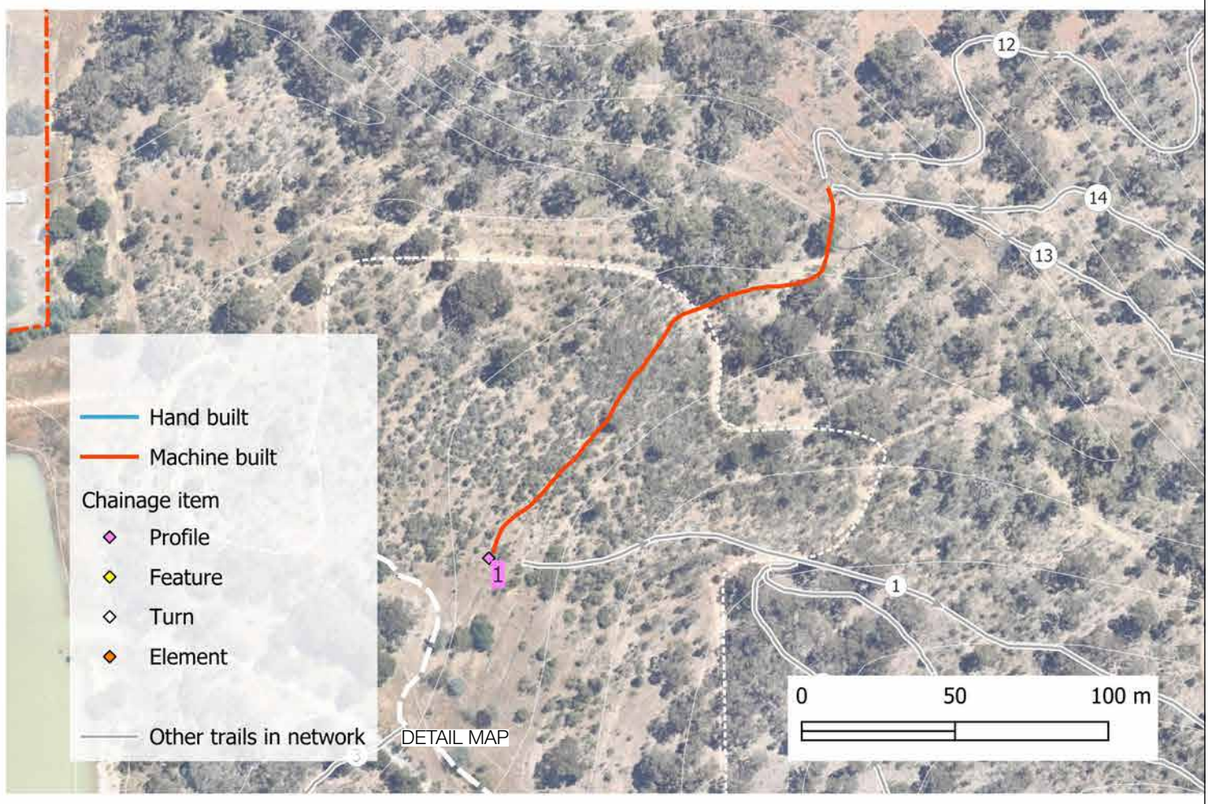
CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
11	1	0	Profile	Build dual direction trail on top of windrow machine build	0	0	0	Gravel loam	





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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 11 - SUMMARY & DETAIL

DRAWING NUMBER
2336_DD29

REVISION
B

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Trail 12 - Blue Adventure

Intermediate
Blue Square

TRAIL DESCRIPTION

Trail12 is a 4.2km moderate single direction cross country trail offering a longer adventure style experience over natural terrain. The trail climbs and descends through the site taking in a range of vegetation communities and slope aspects. It features climbing and descending switchback corners with flowing technical trail features with a variable surface with typical finished width of 0.9m. The trail should work with the landscape shapes provided and allow riders to generate and maintain speed with optional rock features provided to offer a challenge.

TRAIL DETAILS

Classification	Moderate - Blue square
Trail Length	4,442m
Trail Type	XC - flowing
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	4%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Rock garden
Log Rollover
Roller Double

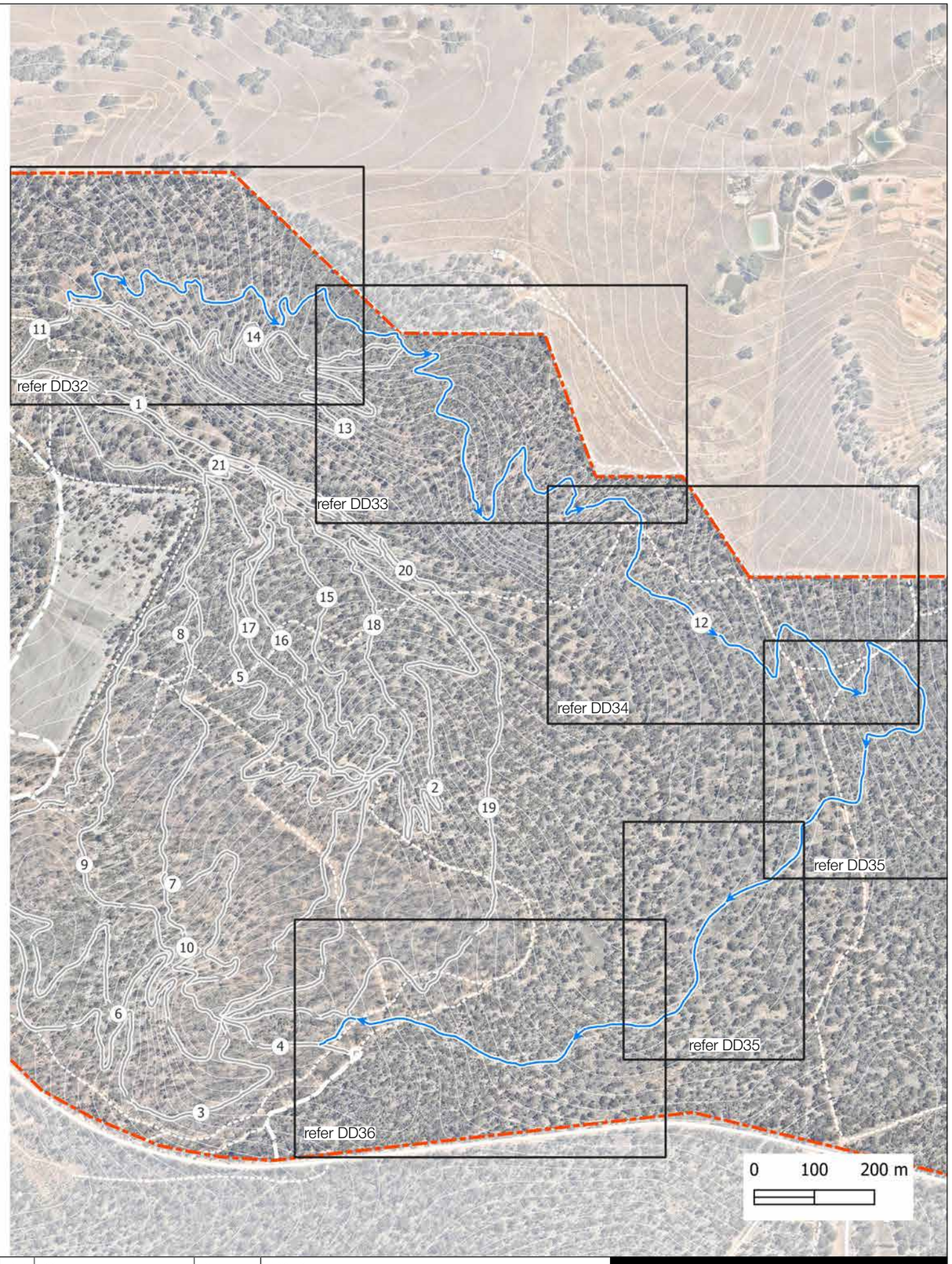
TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A



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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 12 - SUMMARY

DRAWING NUMBER
2336_DD30

REVISION
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Trail 12 - Blue Adventure

Intermediate
Blue Square

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
12	1	0	Profile	Machine build	0	0	0	Gravel loam	
12	2	109	Profile	Machine clear, hand finish	0	0	0	Gravel loam	
12	3	144	Profile	Machine built/half bench	0	0	0	Gravel loam	
12	4	194	Turn	Climbing turn	0	0	0	Gravel loam	Insitu
12	5	215	Profile	Machine build rocky terrain	0	0	0	Gravel loam	
12	6	253	Profile	Machine build	0	0	0	Gravel loam	
12	7	278	Profile	Machine build/rock terrain	0	0	0	Gravel loam	
12	8	336	Feature	Use locally won log to choke optional line into rocks	3000	200	0	Gravel loam	Locally won log
12	9	392	Profile	Machine built	0	0	0	Gravel loam	
12	10	480	Turn	Switchback turn	0	0	0	Gravel loam	Insitu
12	11	561	Turn	Climbing turn	0	0	0	Gravel loam	Insitu
12	12	622	Turn	Climbing turn	0	0	0	Gravel loam	Insitu
12	13	917	Element	Construct trail node 8x8m use locally won rocks an logs for informal seating	0	0	0		
12	14	921	Profile	Machine assist hand build	0	0	0	Gravel loam	
12	15	936	Feature	Rock garden Hand build with insitu rocks	4000	200	700	Gravel loam	Insitu and locally won rock
12	16	954	Feature	Rock rollover machine build hand finish move local boulders into gap to make rollable	5000	300	1000	Gravel loam	Insitu rock
12	17	977	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
12	18	1002	Profile	Partial bench machine build	0	0	0	Gravel loam	
12	19	1027	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
12	20	1375	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu
12	21	1517	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu
12	22	1608	Profile	Machine assist hand build rocky section. Main line weaving through on smoother path (pink tape) optional lines over rocks either side (white tape)	0	0	0	Rocky	
12	23	1615	Feature	Rock garden optional line	2000	200	0	Gravel loam	Insitu rock
12	24	1619	Feature	Rock garden optional line	0	200	0	Gravel loam	Insitu rock
12	25	1624	Feature	Rock garden optional line	0	200	0	Gravel loam	Insitu rock
12	26	1635	Feature	Rock garden optional line	0	200	0	Gravel loam	Insitu rock
12	27	1654	Profile	Machine built partial bench	0	0	0	Gravel loam	
12	28	1733	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
12	29	1771	Turn	Insloped banked turn	0	0	0	Gravel loam	Insitu
12	30	2036	Feature	Rock garden	1500	150	600	Gravel loam	Insitu rock
12	31	2291	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu
12	32	2383	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu
12	33	2407	Feature	Rock garden - take trail across insitu rock	1500	100	0	Gravel loam	Insitu rock
12	34	2571	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu
12	35	2656	Turn	Climbing switchback	0	0	0	Gravel loam	Insitu
12	36	2839	Feature	Rock garden with a few drops	2000	100	0	Gravel loam	Insitu and locally won rock
12	37	4182	Element	Pinch point with Trail 19					
12	38	4229	Element	Merge into Trail 4					

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Shire of BODDINGTON
Flowing with Natural Beauty

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PROJECT NORTH

REV	ISSUE	DATE
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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 12 - SUMMARY

DRAWING NUMBER
2336_DD31

REVISION
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ISSUE
FINAL

Hand built
Machine built
Chainage item
Profile
Feature
Turn
Element
Other trails in network
0
50
100 m

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 12 - DETAIL

DRAWING NUMBER
2336_DD32

REVISION
B

ISSUE
FINAL

Hand built
Machine built
Chainage item
Profile
Feature
Turn
Element
Other trails in network
0
50
100 m

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DRAWING TITLE
TRAIL 12 - DETAIL

DRAWING NUMBER
2336_DD33

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BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 12 - DETAIL

DRAWING NUMBER
2336_DD34

REVISION
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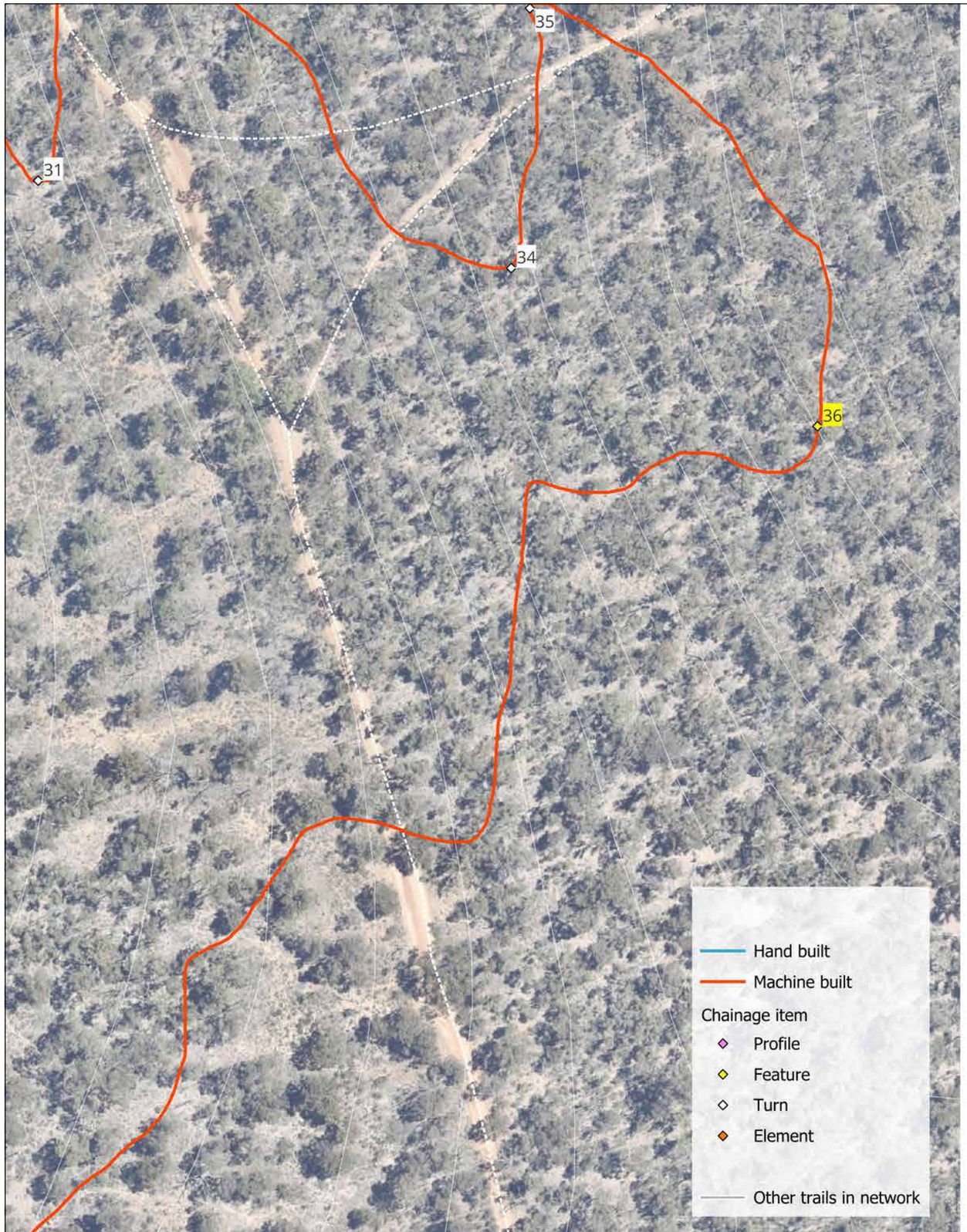

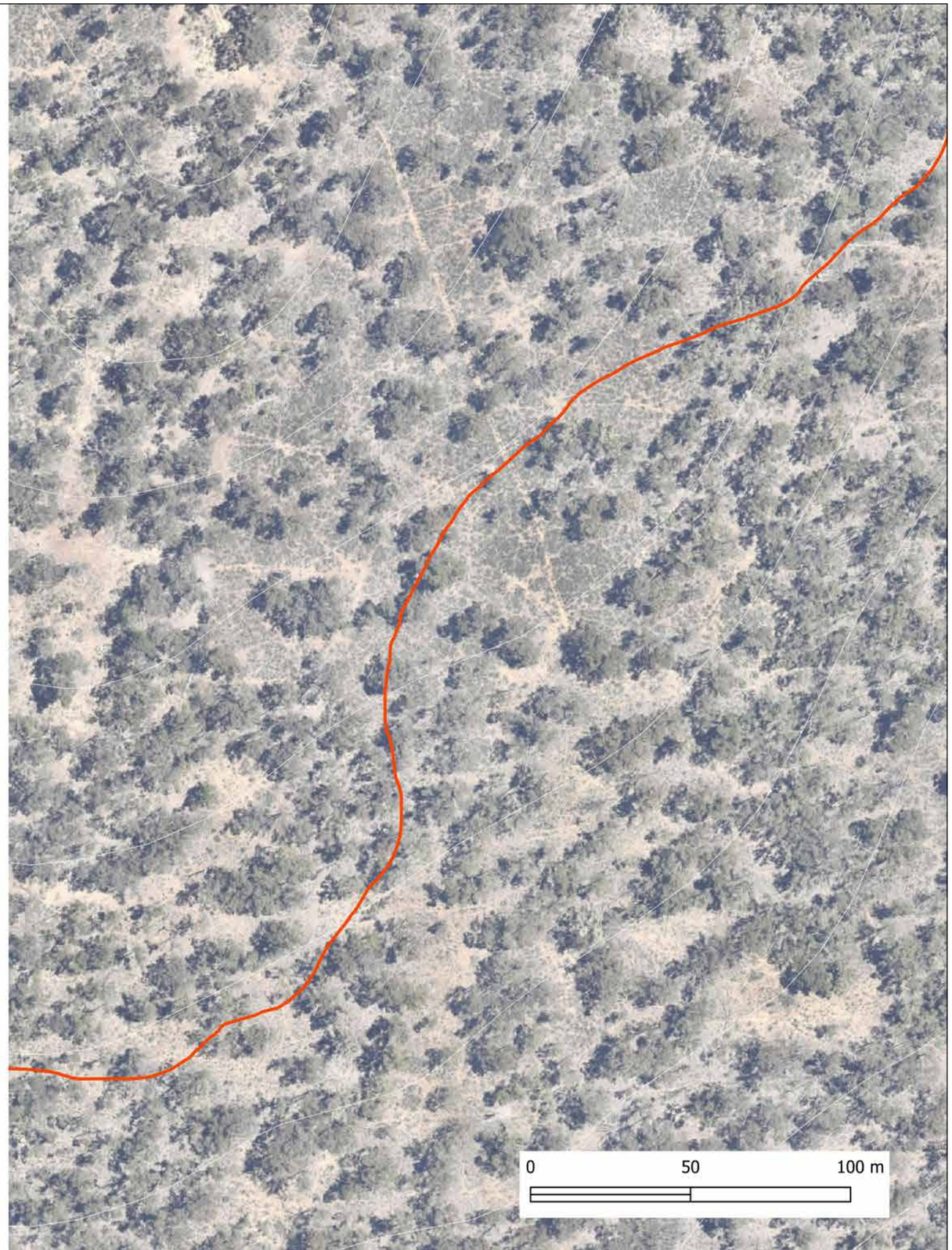

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BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 12 - DETAIL

DRAWING NUMBER
2336_DD35

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DRAWING TITLE
TRAIL 12 - DETAIL

DRAWING NUMBER
2336_DD36

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Trail 13 - Blue Descent 4

Intermediate
Blue Square

TRAIL DESCRIPTION

Trail 13 is a 1km moderate single direction high speed descending trail offering a cross country experience focused on natural technical features and jumps over rocky terrain. Located in generally steep side slopes, the moderate gradient trail descends from the northern node upper to the northern node. This trail features a combination of constructed and natural features that aim to test rider skills and provide an avenue for progression. Jumps should be constructed with minimal material and work with the landscape provided. Finished trail width should be 0.9m with a combination of smooth and natural surface as specified within the construction notes.

TRAIL DETAILS

Classification	Moderate - Blue square
Trail Length	1,072m
Trail Type	XC - technical
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	4%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Rock garden
Step down
Roller Double

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

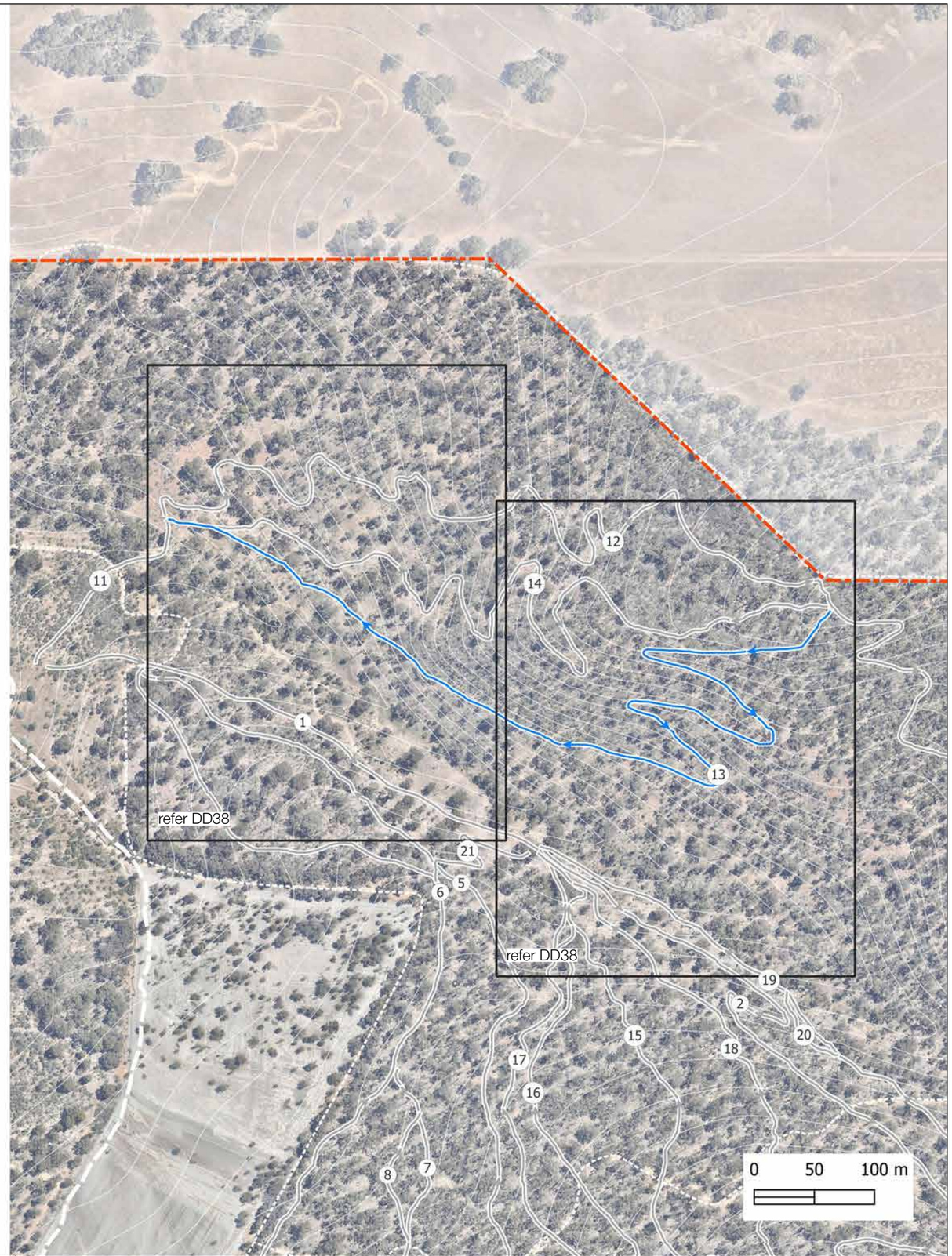
Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
13	1	0	Profile	Hand built, lifted with material where possible	0	0	0	Rocky	
13	2	34	Feature	Rock garden	5000	200	0	Gravel loam	Insitu rock
13	3	40	Profile	Machine build, excavation required	0	0	0	Gravel loam	
13	4	172	Turn	High apex with an opening radius	0	0	0	Gravel loam	Insitu
13	5	213	Feature	Roller double	4000	1500	2000	Gravel loam	Locally won soil
13	6	230	Feature	Step down roller double	4500	1500	2000	Gravel loam	Locally won soil
13	7	294	Profile	Hand built rock section	0	0	0	Rocky	
13	8	304	Turn	Technical flat rocky turn, hand built	0	0	0	Gravel loam	Insitu
13	9	349	Profile	Machine partial bench	0	0	0	Gravel loam	
13	10	354	Feature	Machine built support to push up the hill	5000	1000	2000	Gravel loam	Locally won soil
13	11	365	Profile	Hand built	0	0	0	Rocky	
13	12	378	Profile	Machine partial bench	0	0	0	Gravel loam	
13	13	444	Turn	Switch back turn with High exit pushing up the hill	0	0	0	Gravel loam	Insitu
13	14	498	Feature	Roller double	4500	1500	1500	Gravel loam	Locally won soil
13	15	545	Turn	Sweeping bank turn	0	0	0	Gravel loam	Insitu
13	16	573	Feature	Roller double	4000	1500	1500	Gravel loam	Locally won soil
13	17	656	Feature	Roller double	4000	1500	1500	Gravel loam	Locally won soil
13	18	729	Feature	Log roll over using chainsaw to cut nearby logs to length and stack into a log over	2000	1500	1500	Gravel loam	Locally won logs
13	19	847	Feature	Step down roller double	4500	1500	1500	Gravel loam	Locally won soil
13	20	880	Feature	Roller double	4500	1500	1500	Gravel loam	Locally won soil
13	21	916	Feature	Dished tabletop	4500	1500	1500	Gravel loam	Locally won soil
13	22	1071	Element	Trail merge into node	0	0	0		



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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 13 - SUMMARY

DRAWING NUMBER
2336_DD37

REVISION
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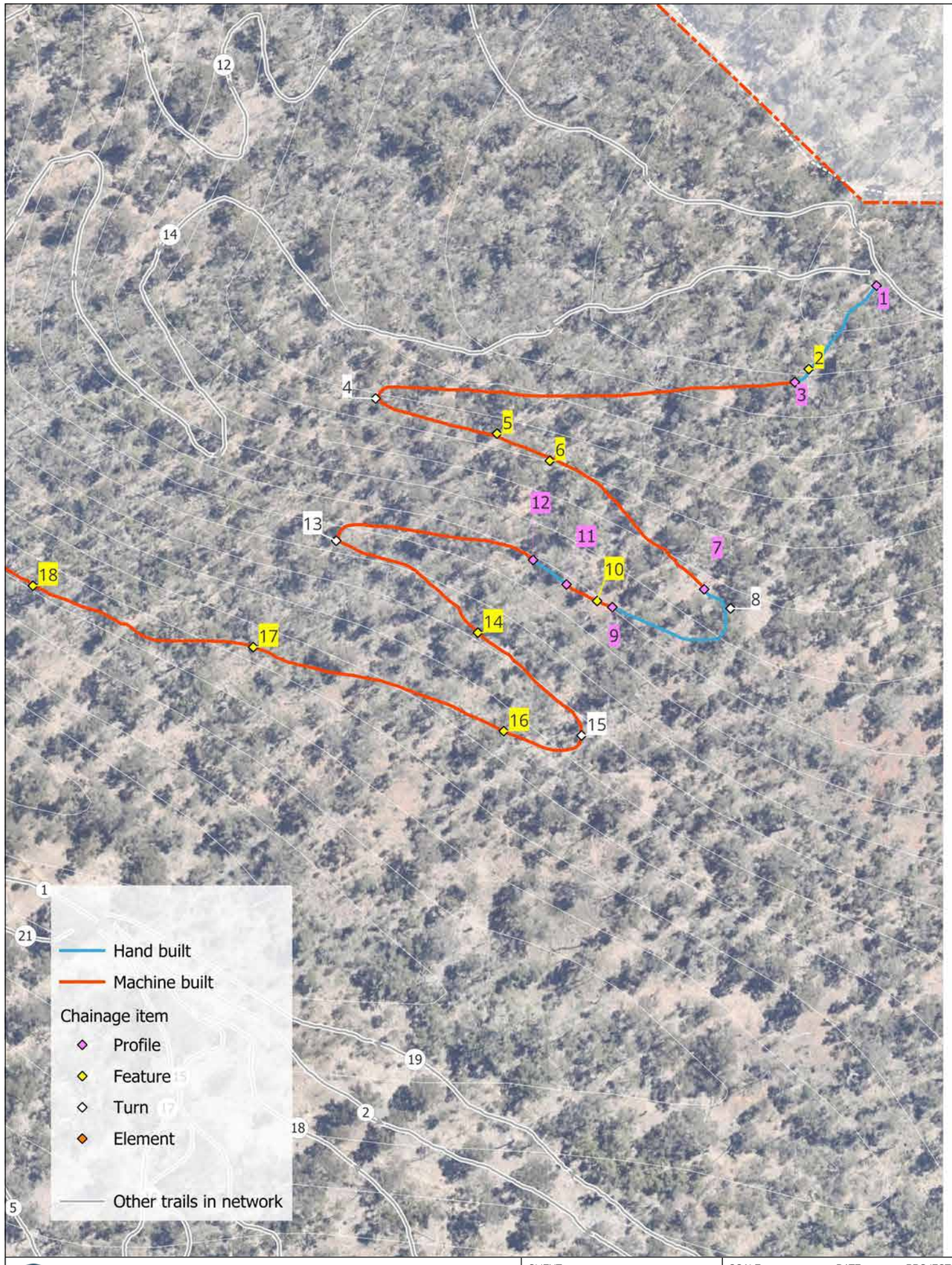

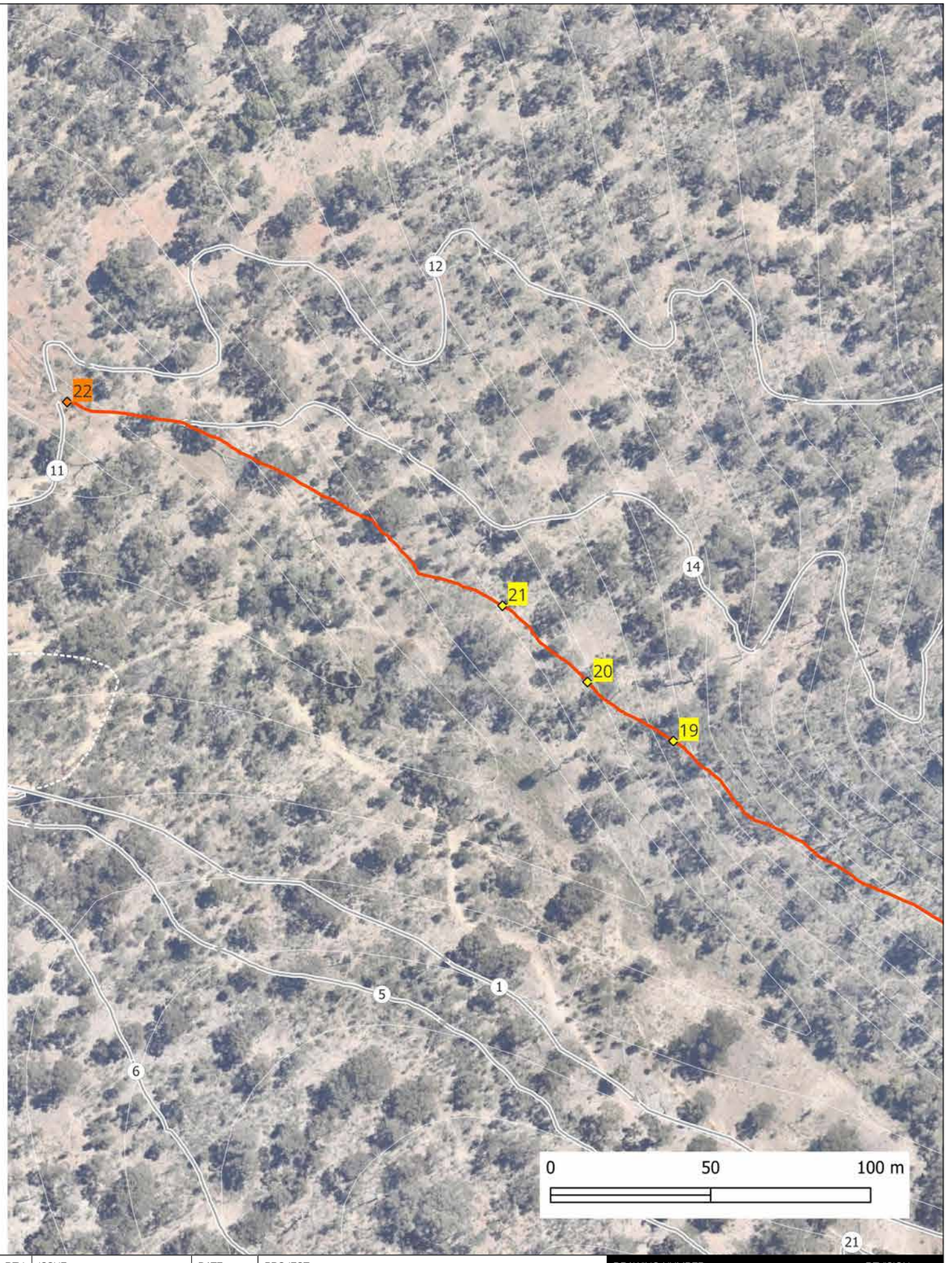

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BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 13 - DETAIL

DRAWING NUMBER
2336_DD38

REVISION
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Trail 14 - Black Descent 2

Difficult
Black Diamond

TRAIL DESCRIPTION

Trail 14 is a 861m difficult single direction descending trail offering a technical cross country experience focused on steep technical features over natural terrain. Located in generally steep and rocky side slopes, the trail is feature driven over largely rough, natural surface. The sections in the lower slopes will require more excavation to construct the trail and features to carry speed. Finished trail width is specified to a nominal 0.6m however, the lower sections will require an increased width to 0.9m.

TRAIL DETAILS

Classification	Difficult - Black Diamond
Trail Length	861m
Trail Type	XC - technical
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	5%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	600mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Rock kicker
Step down
Roller Double
Table Top Jump

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 14 - SUMMARY

DRAWING NUMBER
2336_DD39

REVISION
B

ISSUE
FINAL

Trail 14 - Black Descent 2

Difficult
Black Diamond

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
14	1	0	Profile	Hand built, machine features	0	0	0	Rocky	
14	2	13	Feature	Rock kicker jump, use machine to move rocks to build jump	0	700	0	Gravel loam	Insitu rock
14	3	57	Element	Bring rocks in from nearby to armour tree roots	0	0	0	Gravel loam	Locally won rock
14	4	63	Feature	Use nearby rocks to construct rock kicker jump	0	700	0	Gravel loam	Locally won rock
14	5	97	Feature	Tree archway, use chainsaw to trim branches to clear path, machine to clear Zamia	0	0	0	Gravel loam	Insitu tree
14	6	101	Feature	Rock kicker jump	0	700	0	Gravel loam	Insitu rock
14	7	117	Feature	Rock pitched step down, rock garden. Remove log obstruction with machine or chainsaw	0	1500	0	Gravel loam	Insitu rock
14	8	130	Profile	Machine built partial bench	0	0	0	Gravel loam	
14	9	133	Turn	Insloped banking turn	0	0	0	Gravel loam	Locally won soil
14	10	146	Feature	Roller double	0	800	0	Gravel loam	Locally won soil
14	11	197	Profile	Hand build, use machine to allocate rocks	0	0	0	Rocky	
14	12	198	Feature	Rock garden	0	400	0	Gravel loam	Insitu rock
14	13	226	Profile	Machine build partial bench	0	0	0	Gravel loam	
14	14	229	Turn	Catch berm	0	0	0	Gravel loam	Locally won soil
14	15	256	Feature	Log kicker	0	400	0	Gravel loam	Insitu log
14	16	267	Profile	Hand cut	0	0	0	Rocky	
14	17	269	Feature	Rock roller	0	400	0	Gravel loam	Insitu rock
14	18	284	Feature	Rock roller	0	400	0	Gravel loam	Insitu rock
14	19	300	Profile	Machine build partial bench	0	0	0	Gravel loam	
14	20	312	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
14	21	324	Feature	Double roller	4500	1500	1500	Gravel loam	Locally won soil
14	22	357	Profile	Hand build	0	0	0	Rocky	
14	23	402	Profile	Machine build, partial bench	0	0	0	Gravel loam	
14	24	435	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
14	25	477	Feature	Roller double	4500	1500	1500	Gravel loam	Locally won soil
14	26	498	Profile	Hand built	0	0	0	Rocky	
14	27	502	Turn	Insloped catch berm	0	0	0	Gravel loam	Locally won soil
14	28	518	Profile	Handbuilt	0	0	0	Rocky	
14	29	546	Feature	Rock garden	0	150	0	Gravel loam	Insitu rock
14	30	554	Profile	Machine build	0	0	0	Gravel loam	
14	31	559	Feature	Step down	0	1000	0	Gravel loam	Locally won soil
14	32	568	Turn	Catch berm	0	0	0	Gravel loam	Locally won soil
14	33	586	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
14	34	626	Turn	Descending switchback	0	0	0	Gravel loam	Insitu
14	35	645	Feature	Quark knuckle, Double	4500	1500	1500	Gravel loam	Locally won soil
14	36	659	Turn	Descending turn	0	0	0	Gravel loam	Insitu
14	37	664	Turn	Berm	0	0	0	Gravel loam	Locally won soil
14	38	707	Feature	Hipped table with knuckle	5000	1000	1000	Gravel loam	Locally won soil
14	39	721	Feature	Table top jump	3000	1500	1500	Gravel loam	Locally won soil
14	40	742	Turn	Berm	0	0	0	Gravel loam	Locally won soil
14	41	762	Feature	Double roller	4500	1500	1500	Gravel loam	Locally won soil
14	42	807	Turn	Berm	0	0	0	Gravel loam	Locally won soil
14	43	813	Turn	Half turn down fall line to square off	0	0	0	Gravel loam	Insitu
14	44	830	Turn	Square off, right hander	0	0	0	Gravel loam	Insitu
14	45	841	Turn	Catch berm	0	0	0	Gravel loam	Locally won soil
14	46	860	Element	Merge into Trail 13	0	0	0		

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PROJECT
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DRAWING TITLE
TRAIL 14 - SUMMARY

DRAWING NUMBER
2336_DD40

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Hand built
Machine built
Chainage item
Profile
Feature
Turn
Element
Other trails in network
0
50
100 m

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BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 14 - DETAIL

DRAWING NUMBER
2336_DD41

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Trail 15 - Green Jump Descent

Easy
Green Circle

TRAIL DESCRIPTION

Trail 15 is an easy 741m descending jump trail. The trail descends from the middle node to the lower node and will feature constructed jump and berm features with a wide smooth surface, typical finished width of 2m. Managing trail speed should be considerate of building confidence in beginner riders as the main focus of this trail. Incorporating long site lines and predictability, riders will be given the space on trail to develop and enhance their skills encouraging them toprogress on to the intermediate and difficult jump trails. The parallel intermediate and difficult trails (16 and 17) provide options for rider progression.

TRAIL DETAILS

Classification	Easy - Green Circle
Trail Length	741m
Trail Type	Park - Jump
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	6%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	3,500mm
Finished trail tread width	2,000mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Roller
Roller Double
Table Top Jump

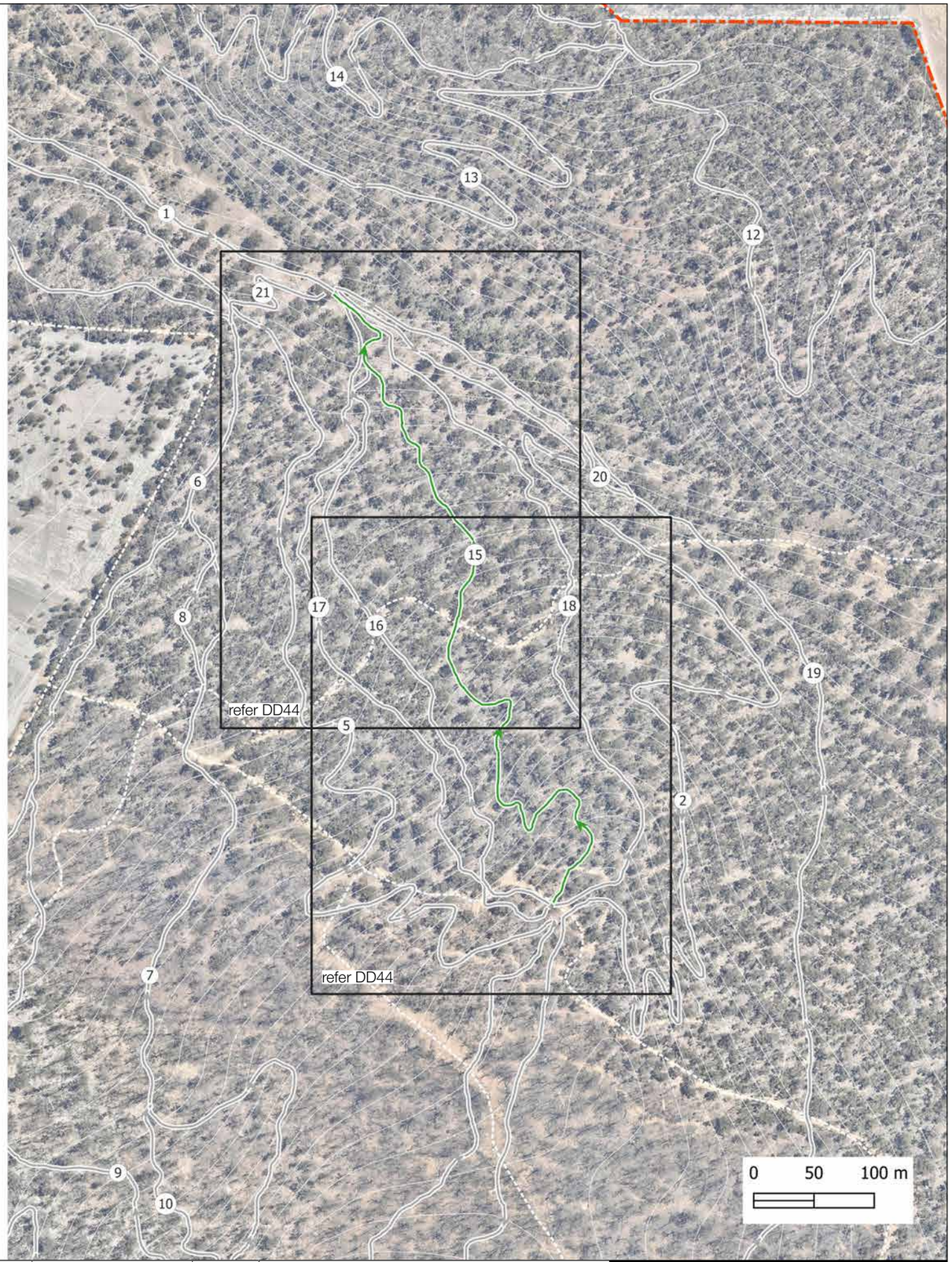
TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A



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Shire of BODDINGTON
Flowing with Natural Beauty

SCALE
1:4600 at **A3**

DATE
19/12/2024

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PROJECT NUMBER
2336

REV	ISSUE	DATE
A	DRAFT FOR REVIEW	06/12/2024
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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 15 - SUMMARY

DRAWING NUMBER
2336_DD42

REVISION
B

ISSUE
FINAL

Trail 15 - Green Jump Descent

Easy
Green Circle

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
15	1	0	Profile	Machine build pink and white tape	0	0	0	Gravel loam	
15	2	15	Feature	Hipped roller to generate speed at start of run	3000	200	3000	Gravel loam	Locally won soil
15	3	84	Turn	Right hand berm turn	0	0	0	Gravel loam	Locally won soil
15	4	96	Turn	Left hand berm turn	0	0	0	Gravel loam	Locally won soil
15	5	136	Feature	Roller double	3000	200	2000	Gravel loam	Locally won soil
15	6	165	Turn	Berm with large arc radius	0	0	0	Gravel loam	Locally won soil
15	7	173	Feature	Roller	2000	200	2000	Gravel loam	Locally won soil
15	8	201	Turn	Large arcing turn	0	0	0	Gravel loam	Insitu
15	9	215	Feature	Roller	0	400	0	Gravel loam	Locally won soil
15	10	223	Feature	Green table top	0	800	0	Gravel loam	Locally won soil
15	11	145	Feature	Hipped roller	0	400	0	Gravel loam	Locally won soil
15	12	259	Feature	Roller	0	400	0	Gravel loam	Locally won soil
15	13	270	Feature	Green table top	0	800	0	Gravel loam	Locally won soil
15	14	295	Turn	Descending switchback. Remove low tree on exit	0	0	0	Gravel loam	Locally won soil
15	15	314	Turn	Descending switchback	0	0	0	Gravel loam	Locally won soil
15	16	333	Feature	Green table top	0	800	0	Gravel loam	Locally won soil
15	17	356	Feature	Green table top	0	800	0	Gravel loam	Locally won soil
15	18	371	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
15	19	380	Feature	Roller	0	400	0	Gravel loam	Locally won soil
15	20	392	Feature	Roller	0	400	0	Gravel loam	Locally won soil
15	21	412	Feature	Double roller	0	400	0	Gravel loam	Locally won soil
15	22	426	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
15	23	441	Feature	Left hand hip roller	0	400	0	Gravel loam	Locally won soil
15	24	453	Feature	Double roller	0	400	0	Gravel loam	Locally won soil
15	25	466	Feature	Double roller	0	400	0	Gravel loam	Locally won soil
15	26	476	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
15	27	488	Feature	Green table top	0	800	0	Gravel loam	Locally won soil
15	28	502	Feature	Green table top	0	800	0	Gravel loam	Locally won soil
15	29	518	Feature	Green table top	0	800	0	Gravel loam	Locally won soil
15	30	537	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
15	31	551	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
15	32	564	Turn	Descending turn	0	0	0	Gravel loam	Locally won soil
15	33	576	Turn	Descending turn	0	0	0	Gravel loam	Locally won soil
15	34	592	Turn	Catch turn	0	0	0	Gravel loam	Locally won soil
15	35	614	Turn	Descending turn	0	0	0	Gravel loam	Locally won soil
15	36	622	Feature	Roller	0	600	0	Gravel loam	Locally won soil
15	37	632	Turn	Descending turn	0	0	0	Gravel loam	Locally won soil
15	38	639	Feature	Green table top	0	1000	0	Gravel loam	Locally won soil
15	39	659	Turn	Descending turn	0	0	0	Gravel loam	Insitu
15	40	671	Element	Trail running through existing drainage swale, may need rock armouring	0	0	0		Locally won rock
15	41	680	Turn	Descending switchback	0	0	0	Gravel loam	Locally won soil

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 15 - SUMMARY

DRAWING NUMBER
2336_DD43

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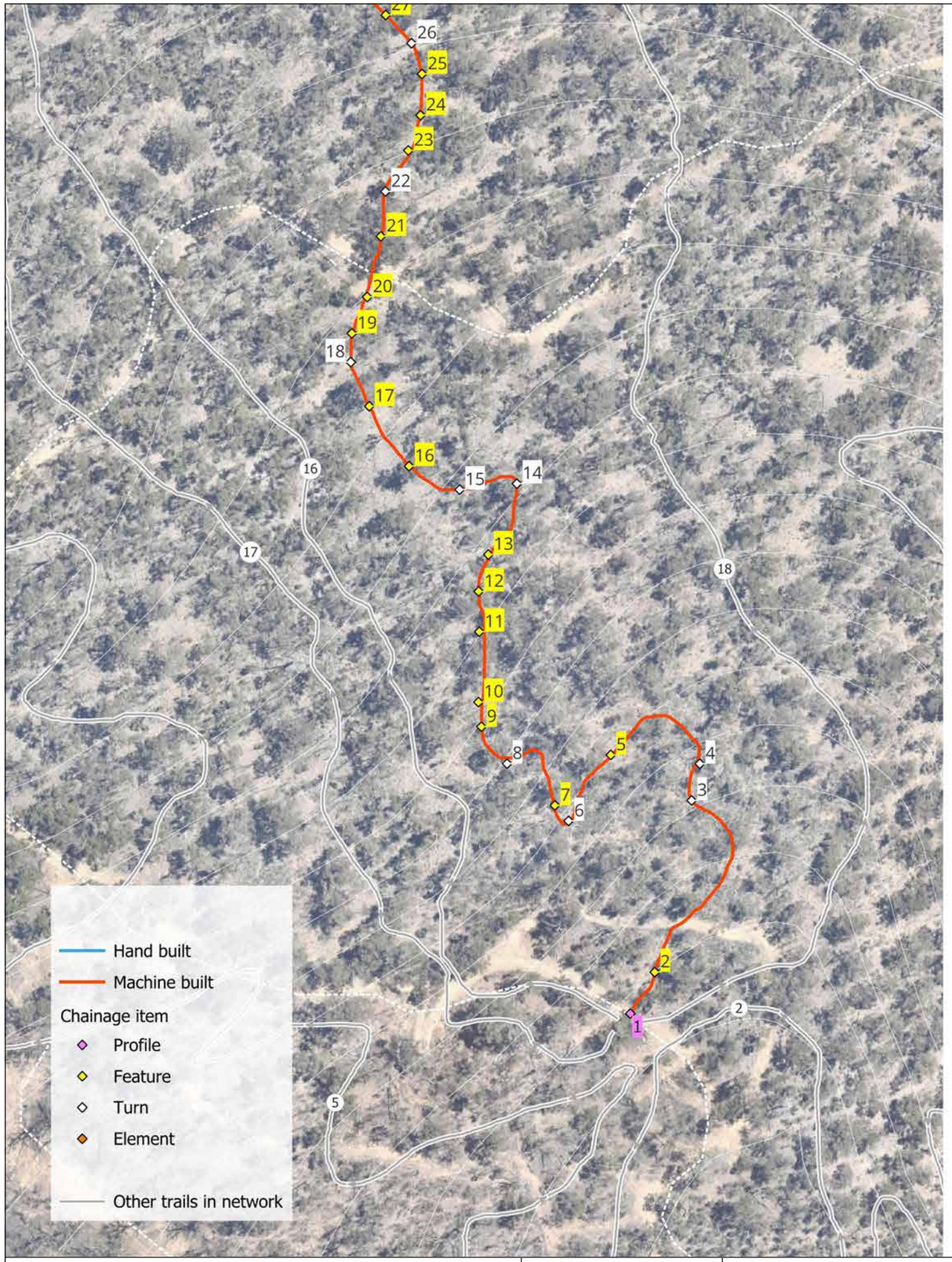

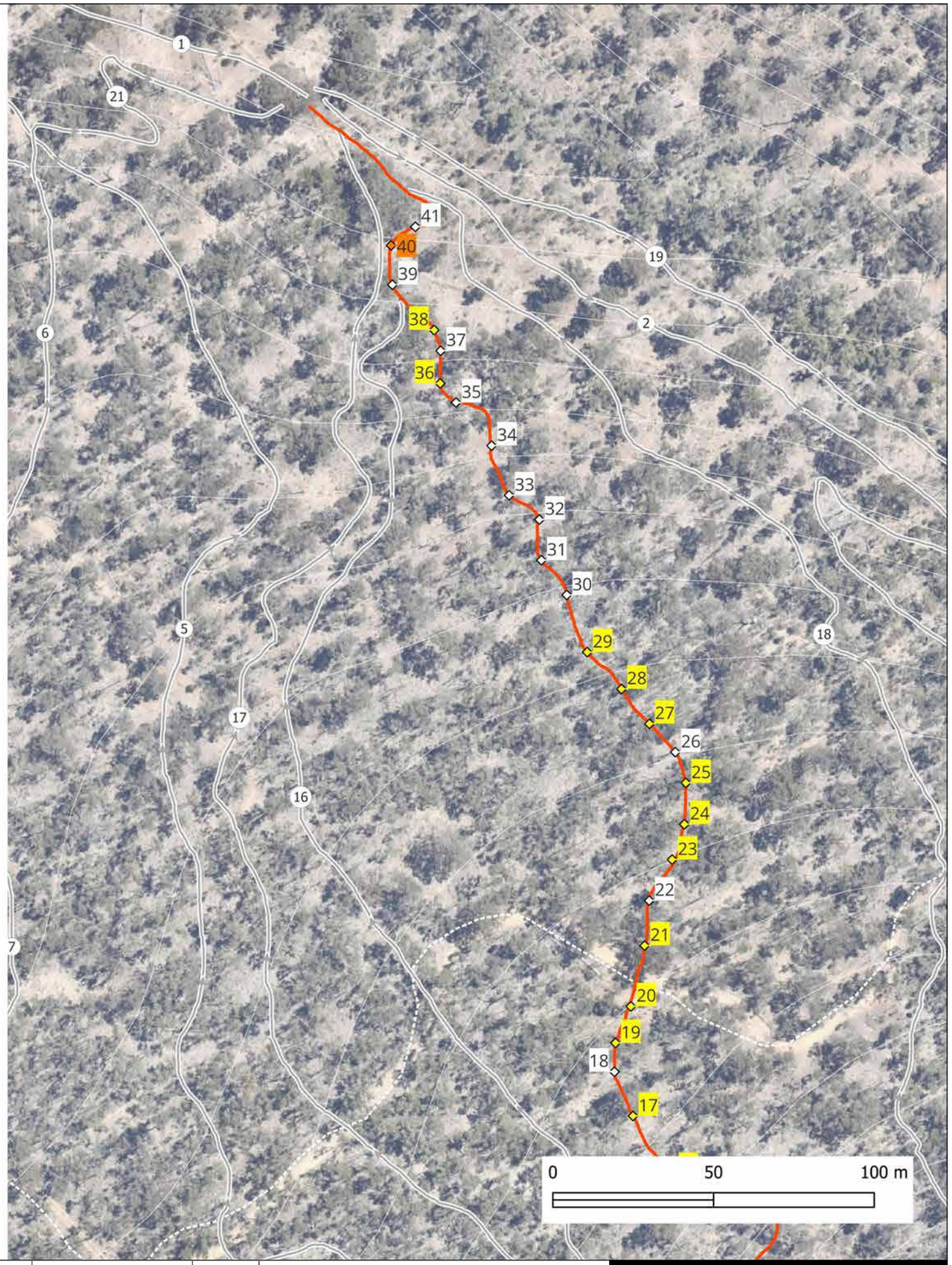

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BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 15 - DETAIL

DRAWING NUMBER
2336_DD44

REVISION
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Trail 16 - Blue Jump Descent

Intermediate
Blue Square

TRAIL DESCRIPTION

Trail 16 is a moderate 567m descending jump trail. The trail descends from the middle node to the lower node and will feature constructed jump and berm features with a wide smooth surface, typical finished width of 2.5m. The trail features a series of berm and catch turns between jumps providing for a constant shift of tempo. Trail 15 will have an emphasis of fun and playfulness generously providing trail speed needed to maintain flow from section to section.

TRAIL DETAILS

Classification	Moderate - Blue square
Trail Length	576m
Trail Type	Park - Jump
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	8%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	3,500mm
Finished trail tread width	2,500mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Step down
Roller Double
Table Top Jump

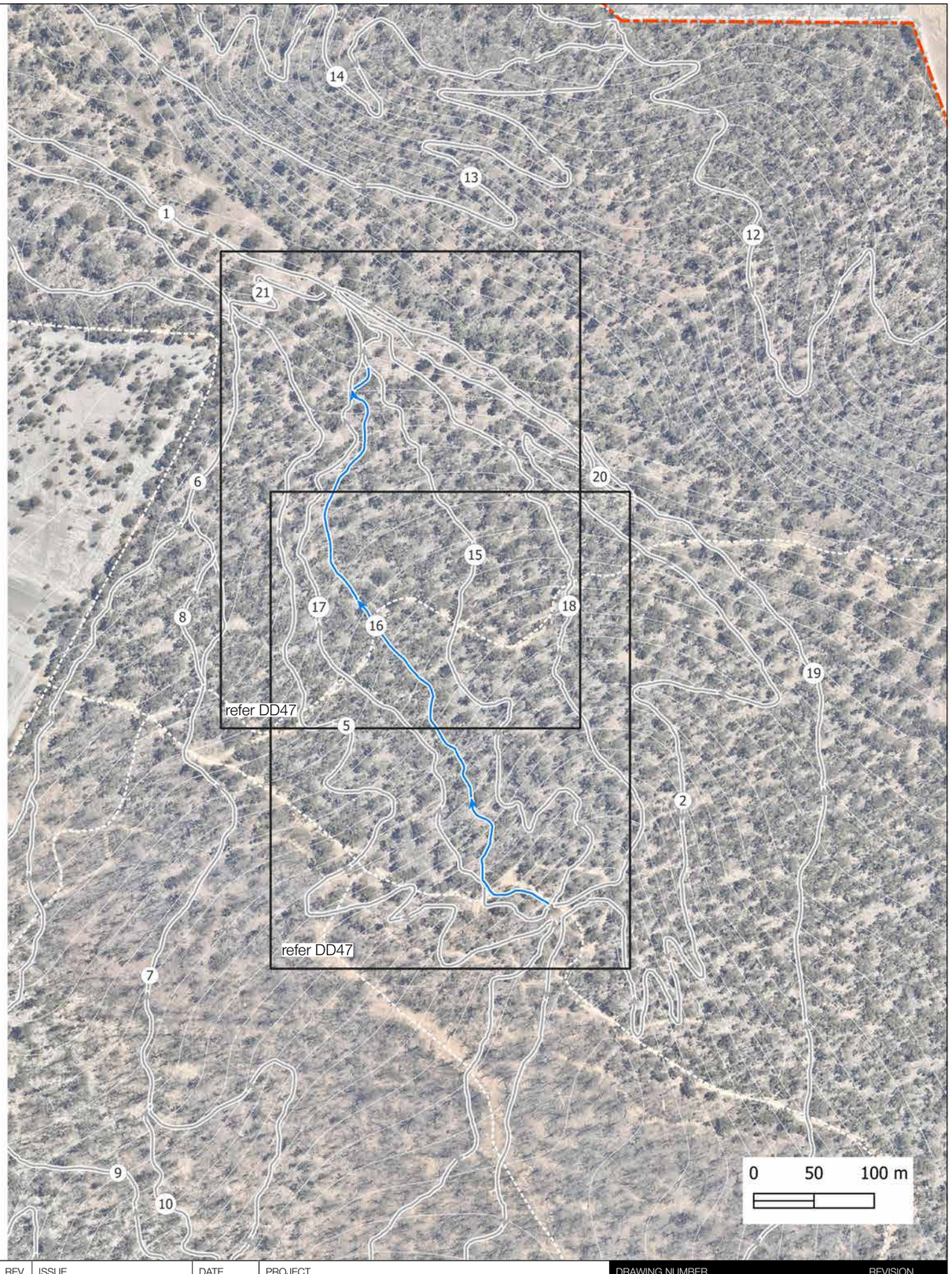
TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A



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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 16 - SUMMARY

DRAWING NUMBER
2336_DD45

REVISION
B

ISSUE
FINAL

Trail 16 - Blue Jump Descent

Intermediate
Blue Square

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
16	1	0	Profile	Blue jump start orange tape machine build	0	0	0	Gravel loam	
16	2	65	Feature	Blue step down filter obstacle at start of trail	0	1000	0	Gravel loam	Locally won soil
16	3	70	Turn	Catch turn	0	0	0	Gravel loam	Locally won soil
16	4	80	Feature	Table top with dished flat top	0	1500	0	Gravel loam	Locally won soil
16	5	96	Feature	Blue tabletop with dished flat top	0	1500	0	Gravel loam	Locally won soil
16	6	110	Turn	Left hand berm turn with sweeping radius	0	0	0	Gravel loam	Locally won soil
16	7	127	Turn	Right hand catch turn	0	0	0	Gravel loam	Locally won soil
16	8	136	Feature	Slightly stepped up tabletop with dished flat top	0	1500	0	Gravel loam	Locally won soil
16	9	162	Feature	Long and low roller double	0	400	0	Gravel loam	Locally won soil
16	10	177	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
16	11	191	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
16	12	205	Feature	Tabletop jump with dished flat top	0	1500	0	Gravel loam	Locally won soil
16	13	225	Feature	Long and low roller double	0	400	0	Gravel loam	Locally won soil
16	14	237	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
16	15	257	Feature	Right hand hip roller	0	600	0	Gravel loam	Locally won soil
16	16	260	Feature	Left hand hip roller	0	600	0	Gravel loam	Locally won soil
16	17	280	Feature	Roller rhythm section	0	600	0	Gravel loam	Locally won soil
16	18	296	Feature	Roller double across road keeping the road access through the middle of the double	0	600	0	Gravel loam	Locally won soil
16	19	334	Feature	Tabletop jump with dished flat top	0	1500	0	Gravel loam	Locally won soil
16	20	350	Feature	Tabletop jump with dished flat top	0	1500	0	Gravel loam	Locally won soil
16	21	366	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
16	22	383	Feature	Roller rhythm section	0	600	0	Gravel loam	Locally won soil
16	23	404	Turn	Left hand berm turn	0	0	0	Gravel loam	Locally won soil
16	24	418	Turn	Right hand berm turn	0	0	0	Gravel loam	Locally won soil
16	25	435	Feature	Roller double	0	600	0	Gravel loam	Locally won soil
16	26	451	Feature	Step down feature	0	1000	0	Gravel loam	Locally won soil
16	27	488	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
16	28	506	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
16	29	521	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
16	30	532	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
16	31	559	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
16	32	567	Element	Blue and green trails merge, blue on riders left of tree and green on the right	0	0	0		

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 16 - SUMMARY

DRAWING NUMBER
2336_DD46

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Hand built
Machine built
Chainage item
Profile
Feature
Turn
Element
Other trails in network

0 50 100 m

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 16 - SUMMARY

DRAWING NUMBER
2336_DD47

REVISION
B

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FINAL

Trail 17 - Black Jump Descent

Difficult
Black Diamond

TRAIL DESCRIPTION

Trail 17 is a moderate 663m descending jump trail. The trail descends from the middle node to the lower node and will feature constructed jump and berm features with a wide smooth surface, typical finished width of 2.5m.Change in feature type and shape will provide a constant shift in tempo giving riders a refreshing descending experience. With ample space to manoeuvre on the trail, experienced riders will gravitate toward the outer edges of the features, enhancing their amplitude to fully capitalize on what the trail has to offer. Trail speed may vary throughout the trail with sections opening up between the more feature rich terrain. Maintaining trail speed will be important and managed through careful shapes, feature size and spacing, ultimately running riders to the bottom with minimal pedalling.

TRAIL DETAILS

Classification	Difficult - Black Diamond
Trail Length	663m
Trail Type	Park - Jump
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	8%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	3,500mm
Finished trail tread width	2,500mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Step down
Roller Double
Table Top Jump
Hipped Roller

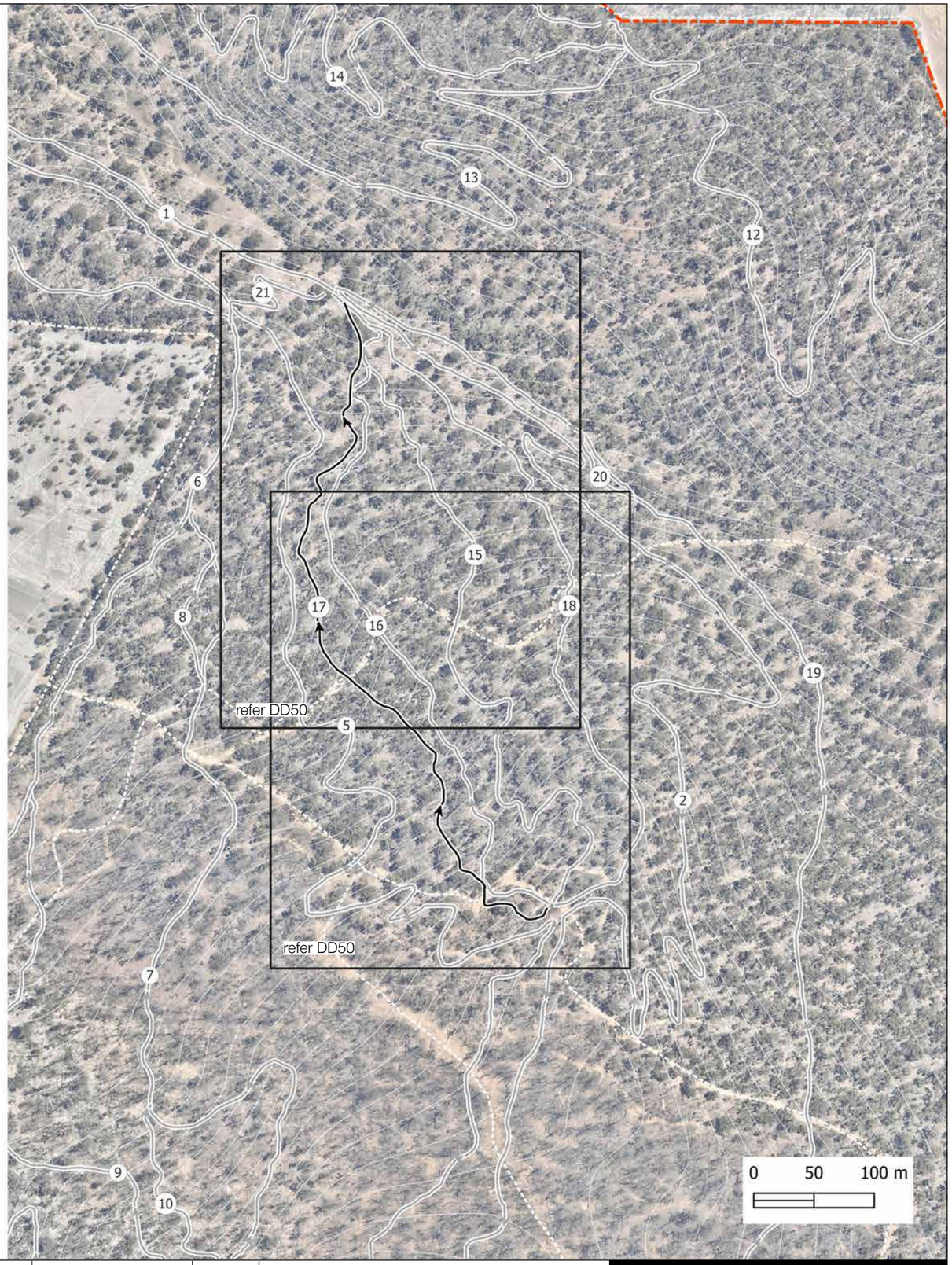
TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A



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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 17 - SUMMARY

DRAWING NUMBER
2336_DD48

REVISION
B

ISSUE
FINAL

Trail 17 - Black Jump Descent

Difficult
Black Diamond

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
17	1	0	Profile	Machine build black jump line pink tape	0	0	0	Gravel loam	
17	2	30	Feature	Rock drop to be used as trail filter.	3000	100	900	Gravel loam	Insitu and locally won rock
17	3	65	Feature	Road gap jump, construct kicker and landing to suit	0	800	0	Gravel loam	Locally won soil
17	4	77	Profile	Machine partial bench	0	0	0	Gravel loam	
17	5	96	Feature	Hipped roller	0	600	0	Gravel loam	Locally won soil
17	6	102	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
17	7	109	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
17	8	128	Feature	Double roller jump	0	600	0	Gravel loam	Locally won soil
17	9	145	Turn	Catch, slap turn	0	0	0	Gravel loam	Locally won soil
17	10	164	Feature	Hip jump	0	1500	0	Gravel loam	Locally won soil
17	11	183	Feature	Long and low roller double	0	400	0	Gravel loam	Locally won soil
17	12	195	Feature	Long n low roller double	0	400	0	Gravel loam	Locally won soil
17	13	203	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
17	14	221	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
17	15	234	Feature	Roller double	0	600	0	Gravel loam	Locally won soil
17	16	241	Turn	Berm turn	0	0	0	Gravel loam	Locally won soil
17	17	255	Feature	Table top with dished flat top	0	1500	0	Gravel loam	Locally won soil
17	18	270	Turn	Banked turn	0	0	0	Gravel loam	Locally won soil
17	19	292	Feature	Road gap over existing fire road. Filter through trees on approach. Bring in surrounding logs to block going around feature.	0	800	0	Gravel loam	Locally won soil
17	20	315	Turn	Catch turn	0	0	0	Gravel loam	Locally won soil
17	21	332	Feature	Roller double	0	600	0	Gravel loam	Locally won soil
17	22	343	Feature	Stepped up table top with dished flat top	0	200	0	Gravel loam	Locally won soil
17	23	359	Feature	Roller double	0	600	0	Gravel loam	Locally won soil
17	24	375	Turn	Tight radius left, right berm section on existing road corridor	0	0	0	Gravel loam	Locally won soil
17	25	390	Feature	Roller straight, up to builder to judge how many dependent on speed on entry.	0	600	0	Gravel loam	Locally won soil
17	26	423	Turn	Berm	0	0	0	Gravel loam	Locally won soil
17	27	439	Feature	Double roller	0	600	0	Gravel loam	Locally won soil
17	28	543	Turn	Catch turn	0	0	0	Gravel loam	Locally won soil
17	29	473	Turn	Berm	0	0	0	Gravel loam	Locally won soil
17	30	488	Turn	Berm	0	0	0	Gravel loam	Locally won soil
17	31	504	Feature	Hip roller	0	600	0	Gravel loam	Locally won soil
17	32	524	Feature	Slight left hip jump into catch turn landing.	0	1500	0	Gravel loam	Locally won soil
17	33	538	Turn	Catch turn of hip jump	0	0	0	Gravel loam	Locally won soil
17	34	560	Turn	Berm	0	0	0	Gravel loam	Locally won soil
17	35	568	Turn	Berm	0	0	0	Gravel loam	Locally won soil
17	36	589	Turn	Berm	0	0	0	Gravel loam	Locally won soil
17	37	606	Turn	Berm	0	0	0	Gravel loam	Locally won soil
17	38	663	Element	Trail merge into green jump line					

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BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 17 - SUMMARY

DRAWING NUMBER
2336_DD49

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Hand built
Machine built

Chainage item
- Profile
- Feature
- Turn
- Element

Other trails in network

0 50 100 m

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BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 17 - DETAIL

DRAWING NUMBER
2336_DD50

REVISION
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Trail 18 - Black Descent 3

Difficult
Black Diamond

TRAIL DESCRIPTION

Trail 18 is a difficult 643m descending technical trail. The trail descends from the middle node to the lower node through a mix of open and rocky terrain. The trail will make use of the natural rock for technical features and include bermed and catch turns. The trail should have a light touch hand build feel with trail speed dictated mostly by the terrain and slope. Trail surface will be variable, typical finished width 0.6m

TRAIL DETAILS

Classification	Difficult - Black Diamond
Trail Length	643m
Trail Type	XC - technical
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	7%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	600mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Rock garden
Roller Double
Rock drop

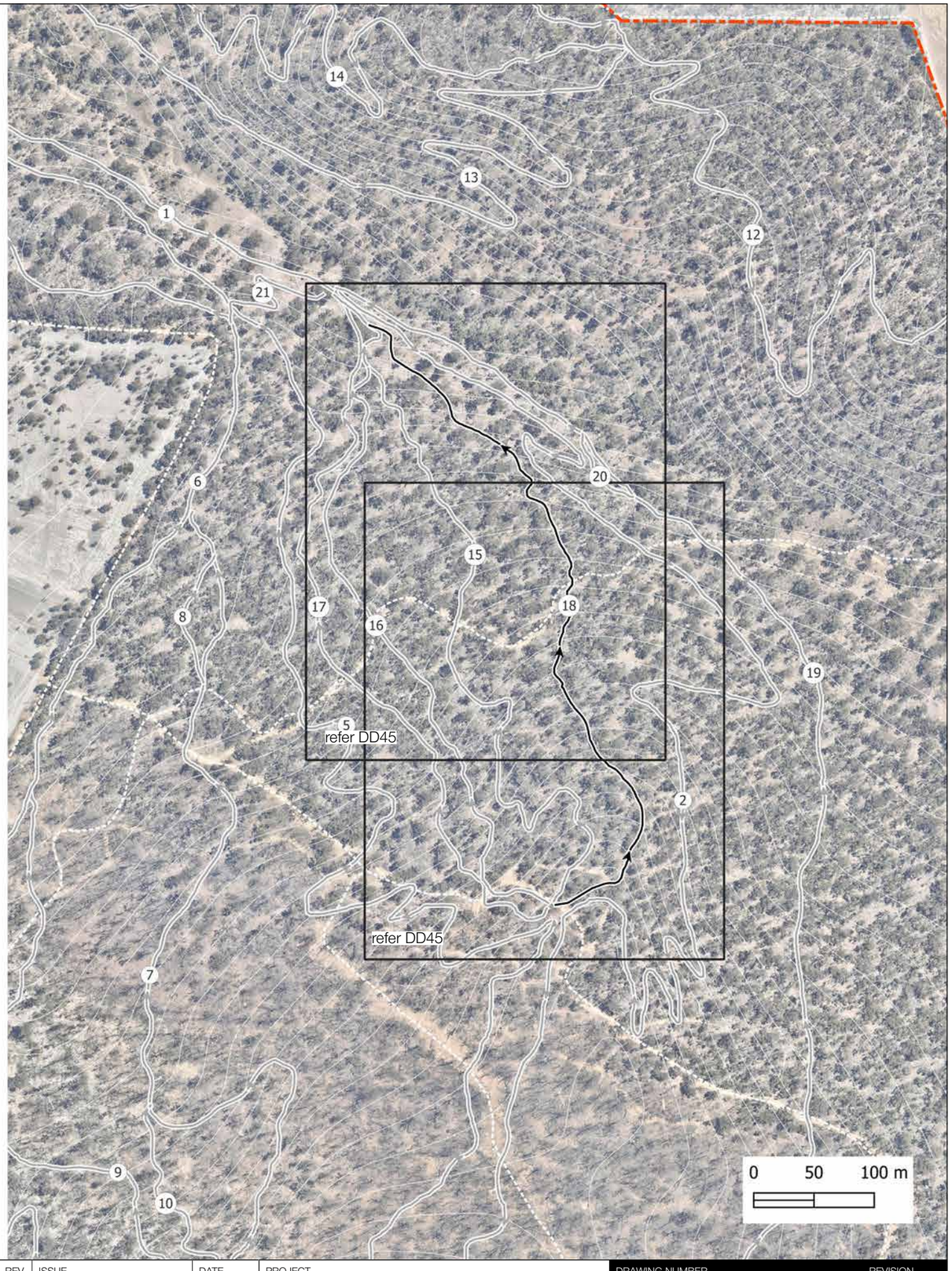
TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A



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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 18 - SUMMARY

DRAWING NUMBER
2336_DD51

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Trail 18 - Black Descent 3

Difficult
Black Diamond

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
18	1	0	Profile	Machine build. Pink tape	0	0	0	Gravel loam	
18	2	10	Element	Install filter feature for black tech decent entry. Use locally won rock to create a rock roll feature into trail. Win additional rock to block either side of trail making it hard to shortcut around filter	0	0	0		Locally won rock
18	3	59	Feature	Install filter rock roll over feature which extends either side to cut off short cut options around filter.	2000	200	6000	Gravel loam	Locally won rock
18	4	67	Profile	Hand build make use of insitu and locally won rock for rock garden	0	0	0	Gravel loam floating rock	
18	5	152	Profile	Hand cut trail through sheoaks less rock feature	0	0	0	Gravel loam	
18	6	176	Feature	Rock drop	400	400	300	Gravel loam	Insitu rock
18	7	189	Profile	Rock garden hand build	0	0	0	Floating rock	
18	8	201	Element	Corral to right of roly left of Ricky. Use locally won rock or log	0	0	0		Locally won rock or log
18	9	231	Profile	Machine build partial bench	0	0	0	Gravel loam	
18	10	240	Turn	Right hand berm turn	0	0	0	Gravel loam	Insitu soil
18	11	261	Turn	Bermed turn, lose little trees marked white	0	0	0	Gravel loam	Insitu soil
18	12	287	Turn	Bermed turn	0	0	0	Gravel loam	Insitu soul
18	13	310	Turn	Catch turn with minimal construction to maintain hand built feel	0	0	0	Gravel loam	Insitu soil
18	14	324	Turn	Catch turn with minimal construction to maintain hand build feel	0	0	0	Gravel loam	Insitu soil
18	15	331	Element	Shift nearby log to force rider through tree- stump gap	0	0	0		Locally won log
18	16	344	Feature	Construct rock kicker on outer edge of road. Place locally won rock to bolster insitu boulder	500	500	0	Gravel loam	Insitu and locally won rock
18	17	348	Profile	Hand built retain natural rock for rock garden features throughout	0	0	0	Gravel loam floating rock	
18	18	387	Profile	Machine build	0	0	0	Gravel loam	
18	19	390	Feature	Shift rock next to tree to make kicker armour with locally won rock to lock in	200	200	0	Gravel loam	Locally won rock
18	20	428	Turn	Catch berm	0	0	0	Gravel loam	Insitu soil
18	21	440	Turn	Catch berm	0	0	0	Gravel loam	In situ soil
18	22	452	Turn	Rollable double	0	0	0	Gravel loam	Insitu soil
18	23	459	Feature	Rollable double	2000	300	400	Gravel loam	Insitu soil
18	24	504	Feature	Trail / ski style jump with gradual landing	0	1500	0	Gravel loam	Insitu soil
18	25	539	Feature	Step down jump	2000	400	0	Gravel loam	Insitu soil
18	26	557	Turn	Catch berm	0	0	0	Gravel loam	Insitu soil
18	27	622	Element	Run trail parallel with green jump line catch berm and merge after berm into node	0	0	0		

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PROJECT
BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 18 - SUMMARY

DRAWING NUMBER
2336_DD52

REVISION
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Hand built
Machine built
Chainage item
Profile
Feature
Turn
Element
Other trails in network

0
50
100 m

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DRAWING TITLE
TRAIL 18 - DETAIL

DRAWING NUMBER
2336_DD53

REVISION
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Trail 19 - Blue Descent 5

Intermediate
Blue Square

TRAIL DESCRIPTION

Trail 19 is a 1,563m moderate single direction descending trail offering a cross-country experience focused on flowing trail over natural terrain. Located in generally moderate side slopes, the trail will feature flowy technical trail features and a rough surface with typical finished width of 0.9m. Favouring long patient arcs, and gradual movements up and down the grade, riders will maintain faster speeds connecting with technical features that reward flow and momentum. As the trail traverses the lower slope, riders can enjoy wide open sightlines as they hold a fun and thrilling pace to the conclusion of the trail.

TRAIL DETAILS

Classification	Moderate - Blue square
Trail Length	1,563m
Trail Type	XC - flowing
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	4%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals
Rolling Grade Dips
Switchbacks
Rock garden
Roller Double
Rock rollover

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

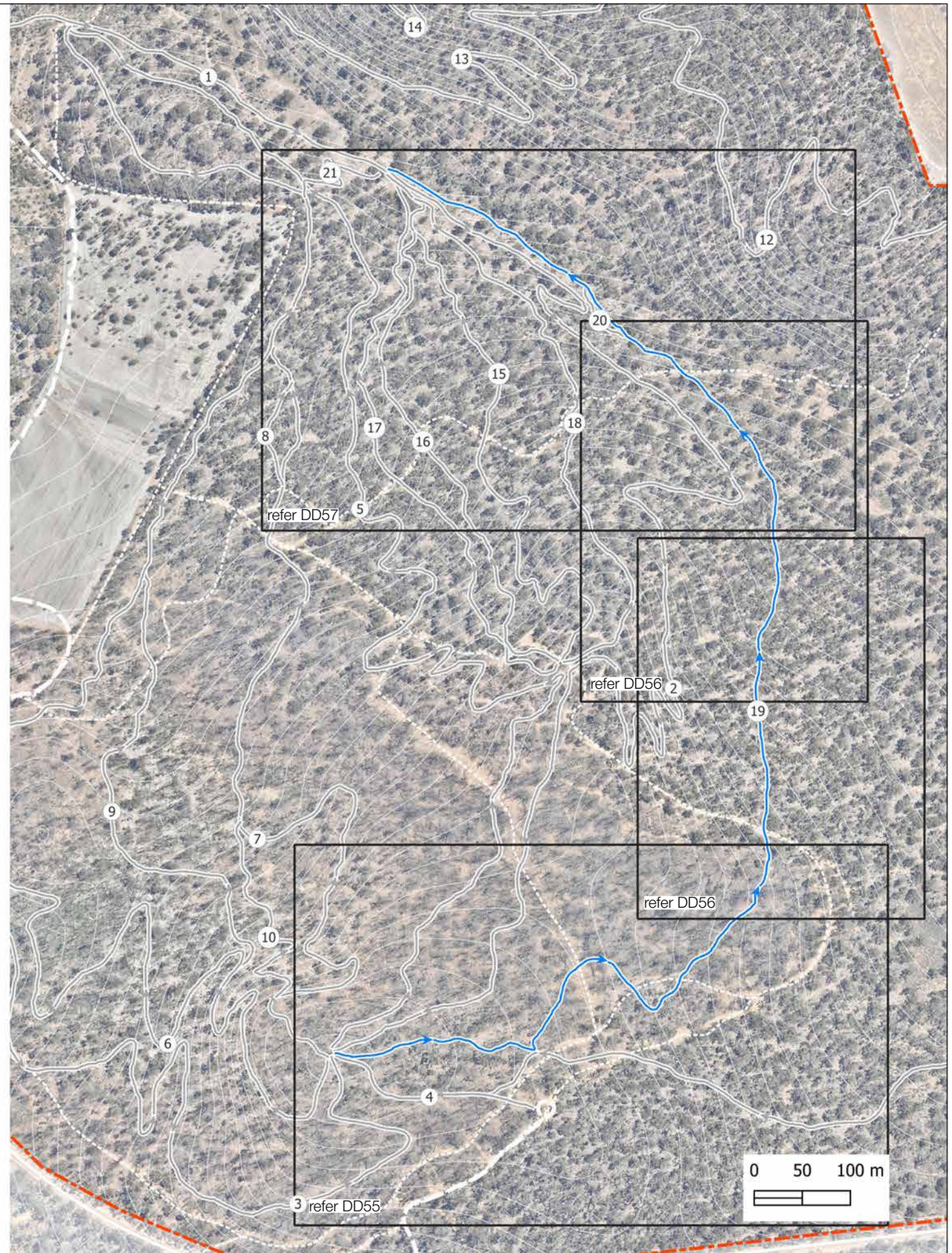
Machinery
- 1.7T Excavator

CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
19	1	0	Profile	Machine build pink and blue tape minimal touch building natural feel	0	0	0	Gravel loam	
19	2	135	Feature	Rock roll over	200	150	200	Gravel loam	Insitu and locally won rock
19	3	219	Element	Pinch point with Trail 12					
19	4	617	Feature	Rock garden utilising insitu rock, use locally won rock to armour ride line options	8000	100	800	Rocky	Insitu and locally won rock
19	5	1041	Feature	Natural rock garden with placement of ride line to maintain some speed through feature	10000	200	800	Gravel loam	Insitu rock
19	6	1287	Profile	Hand build rocky section, use insitu rock and move rocks as needed to make technical ride line work and maintain rider speed.	0	0	0	Rocky	
19	7	1333	Profile	Machine build partial bench	0	0	0	Loam	



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DRAWING TITLE
TRAIL 19 - SUMMARY

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2336_DD54

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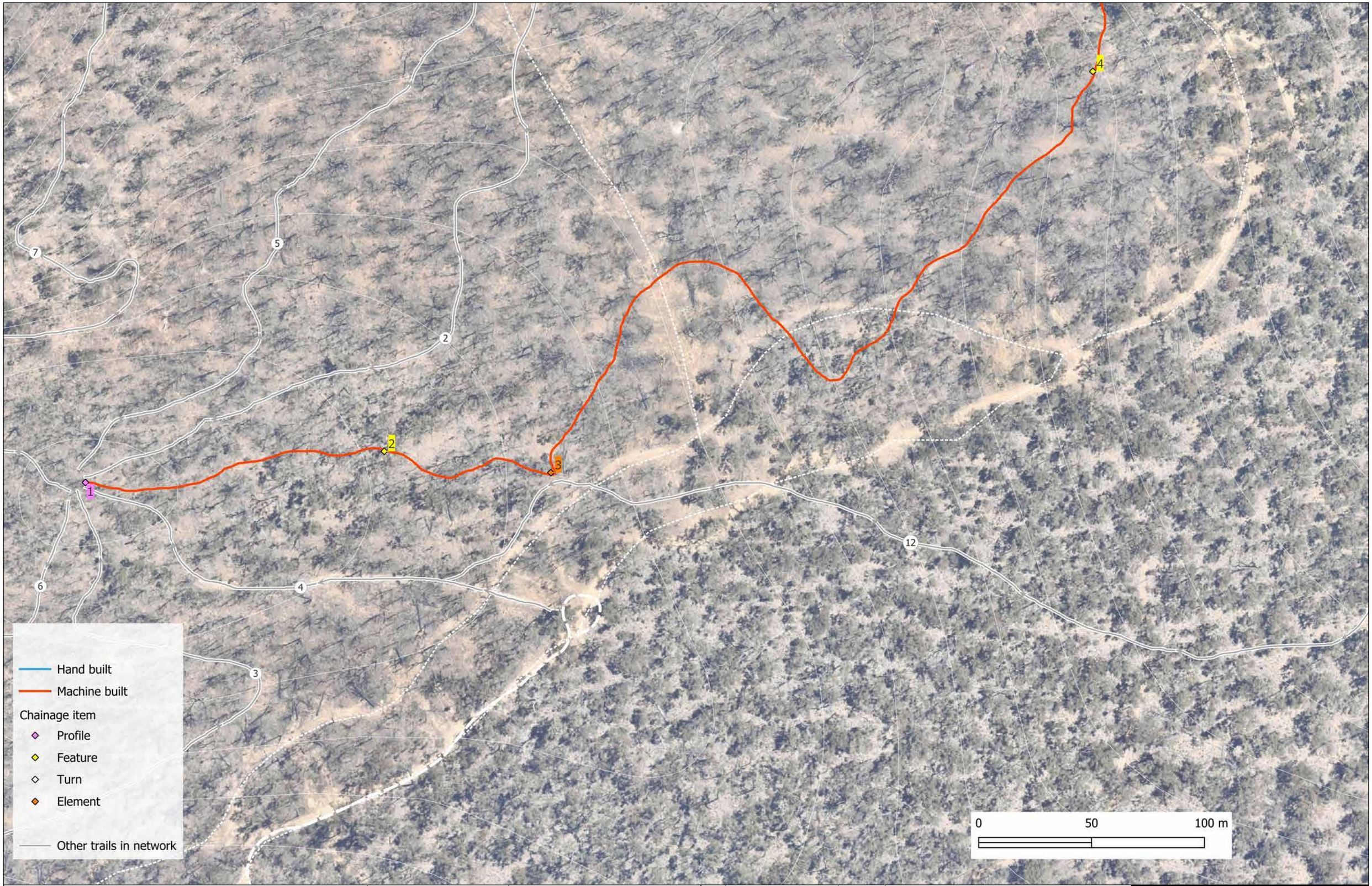

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TRAIL 19 - DETAIL

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2336_DD55

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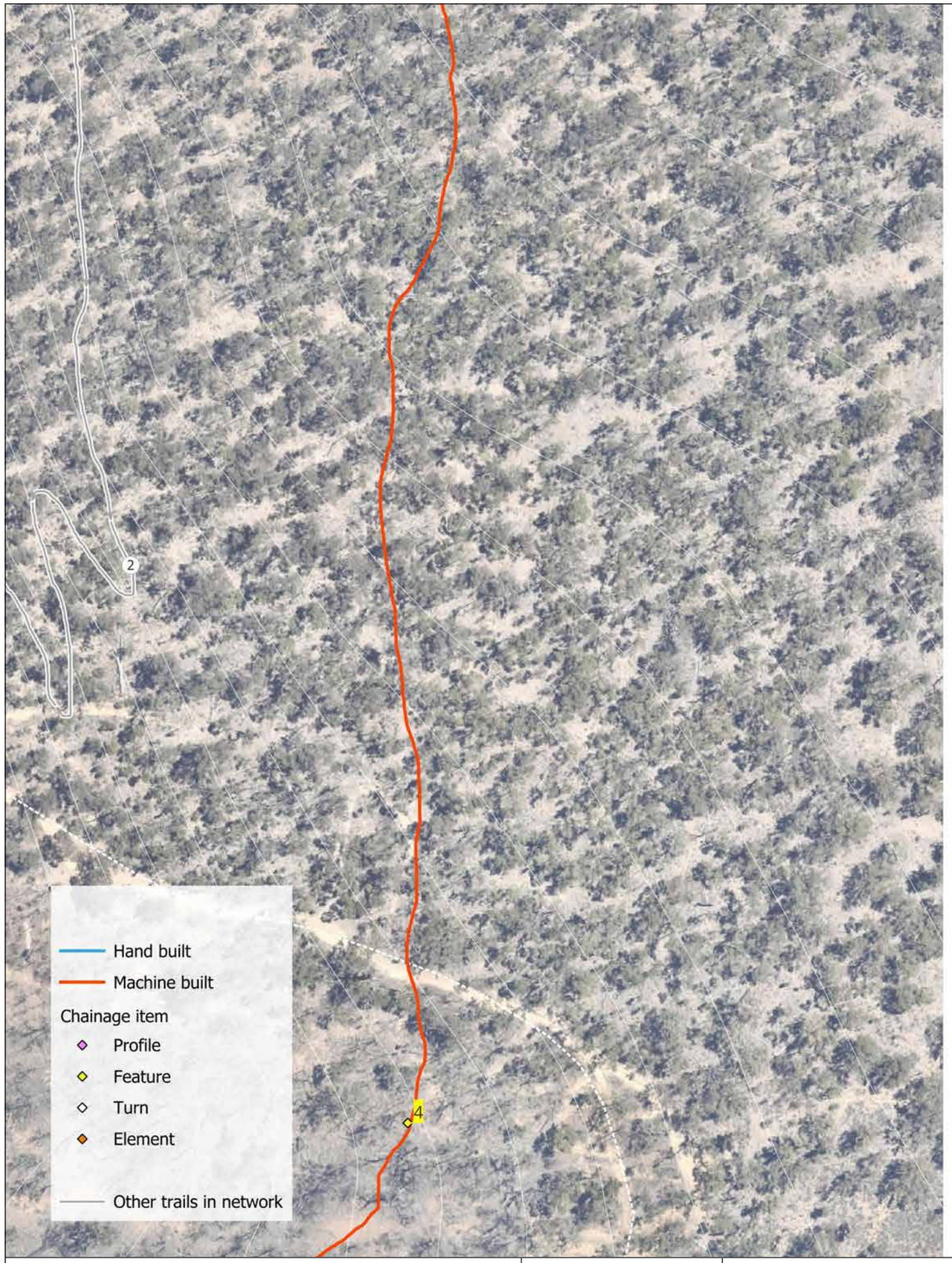

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TRAIL 19 - DETAIL

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2336_DD56

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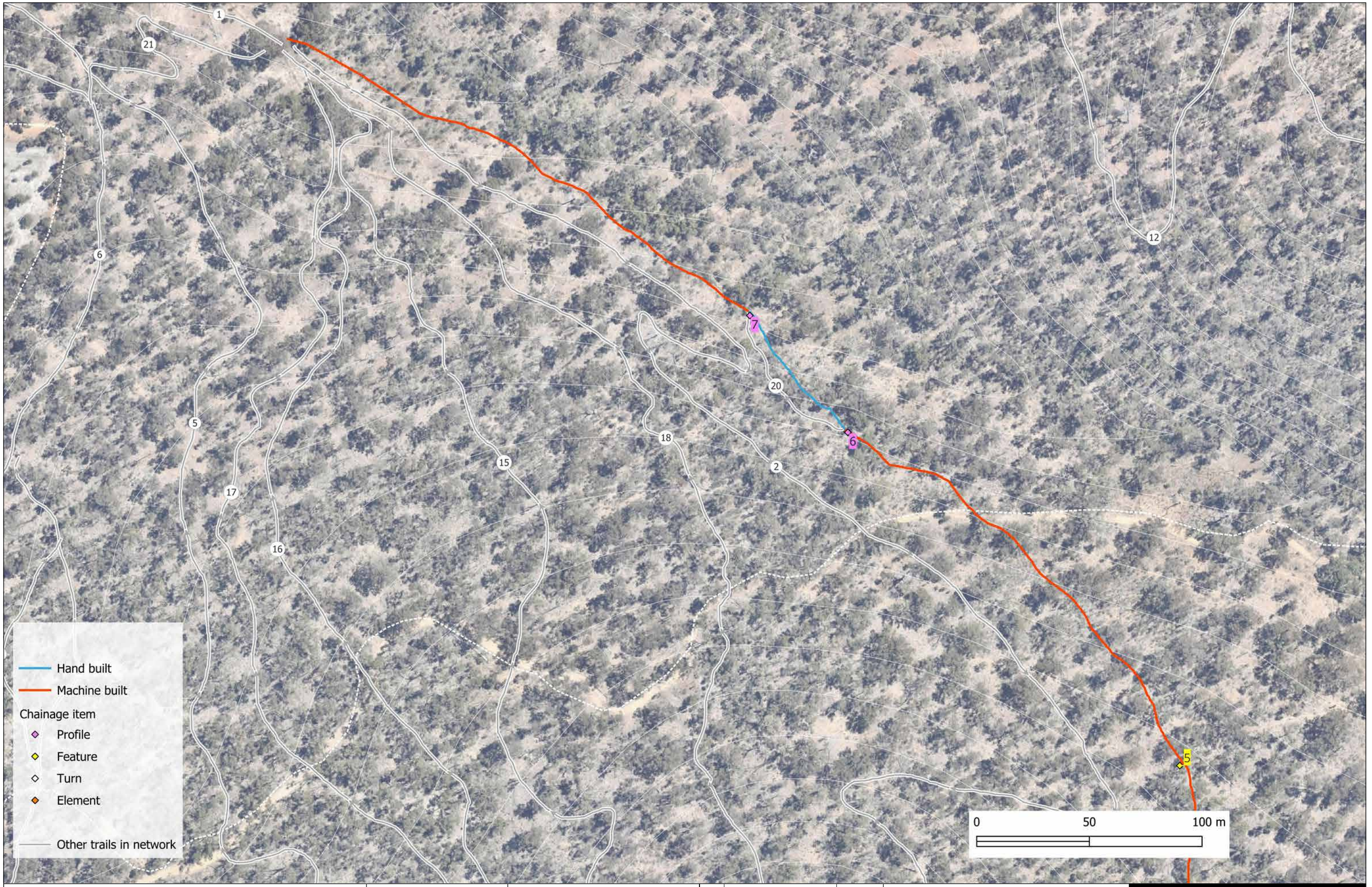

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DRAWING TITLE
TRAIL 19 - DETAIL

DRAWING NUMBER
2336_DD57

REVISION
B

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Trail 20 - Black Optional Line 2

Difficult
Black Diamond

TRAIL DESCRIPTION

Trail 20 is a 75m difficult single direction optional line off Trail 19 offering a steeper technical feature line. Located in generally moderate side slopes, the trail will feature rocky technical trail features and a variable surface with typical finished width of 0.6m.

TRAIL DETAILS

Classification	Difficult - Black Diamond
Trail Length	75m
Trail Type	XC - technical
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	9%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	600mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals

Rolling Grade Dips

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

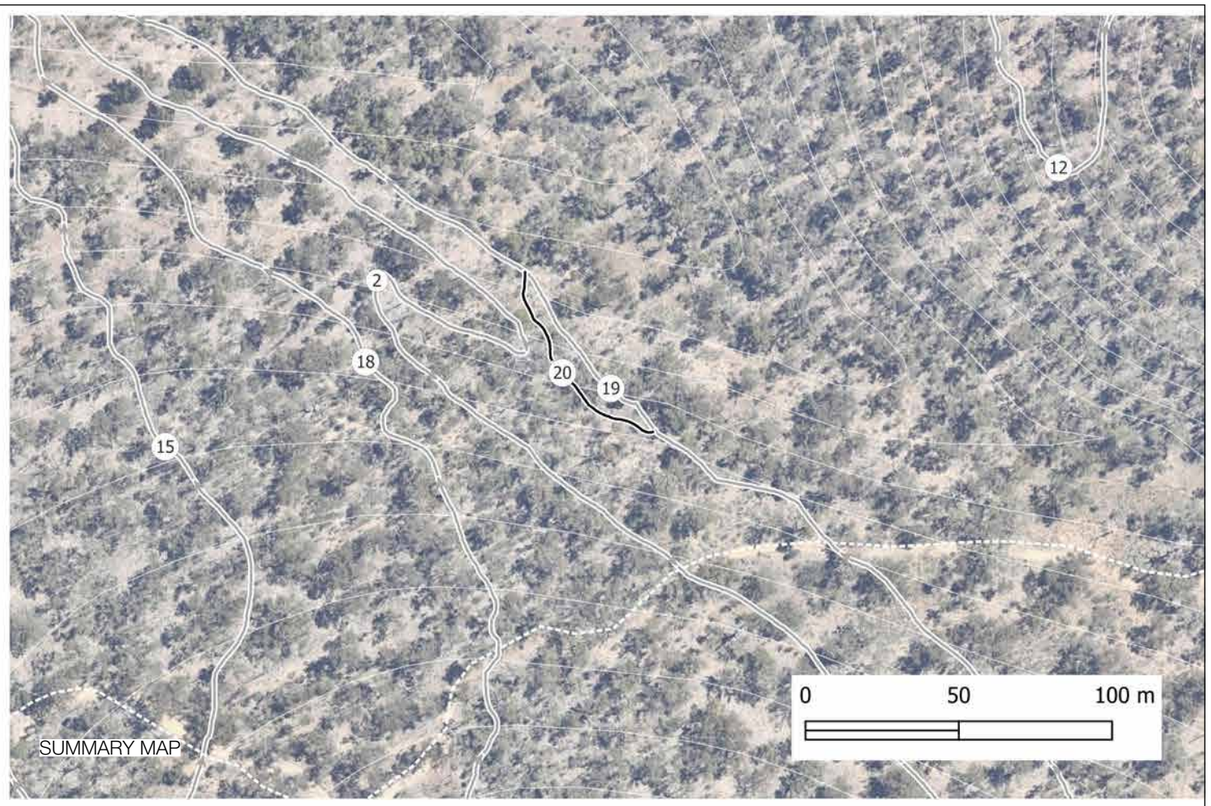
Machinery
- 1.7T Excavator

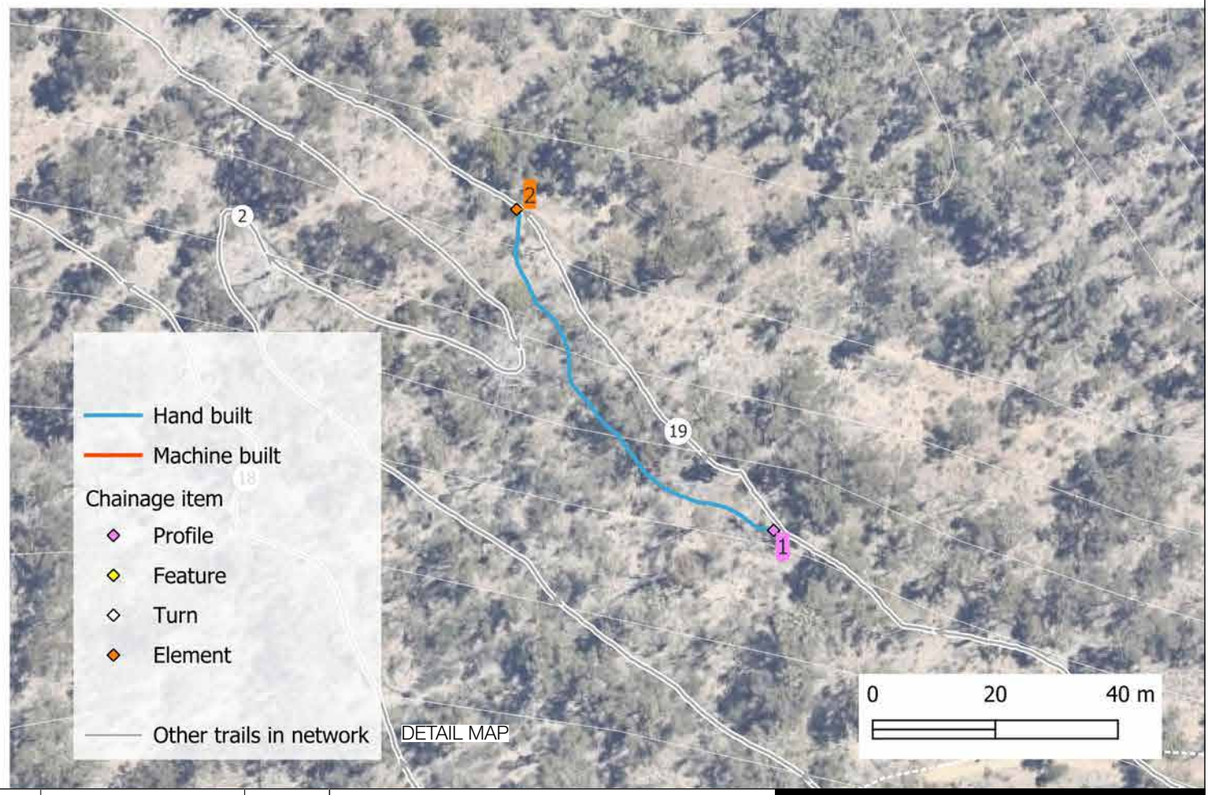
CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
20	1	0	Profile	Hand build optional black line through rocky slope				Rocky	
20	2	75	Element	Trail merge back into Trail 19					





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BODDINGTON TRAIL NETWORK

DRAWING TITLE
TRAIL 20 - SUMMARY & DETAIL

DRAWING NUMBER
2336_DD58

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Trail 21 - Lower Node Link

Easy
Green Circle

TRAIL DESCRIPTION

Trail 21 is a 149m easy single direction trail which links Trail 6 and 5 back to the lower node. Located in generally moderate side slopes, the trail should present a predictable open style, smooth surface with typical finished width of 0.9m.

TRAIL DETAILS

Classification	Easy - Green Circle
Trail Length	149m
Trail Type	XC - open
Direction	Single direction
Site gradient	Moderate side slopes
Trail gradient	3%
In situ soil types	Gravel-loam
Natural features	Rock outcrops, Jarrah Forest
Construction footprint width	1,200mm
Finished trail tread width	900mm

TRAIL TECHNICAL & DRAINAGE FEATURES

Grade Reversals

Rolling Grade Dips

Switchbacks

TRAIL CONSTRUCTION STANDARDS

Refer to general construction notes (DD2).

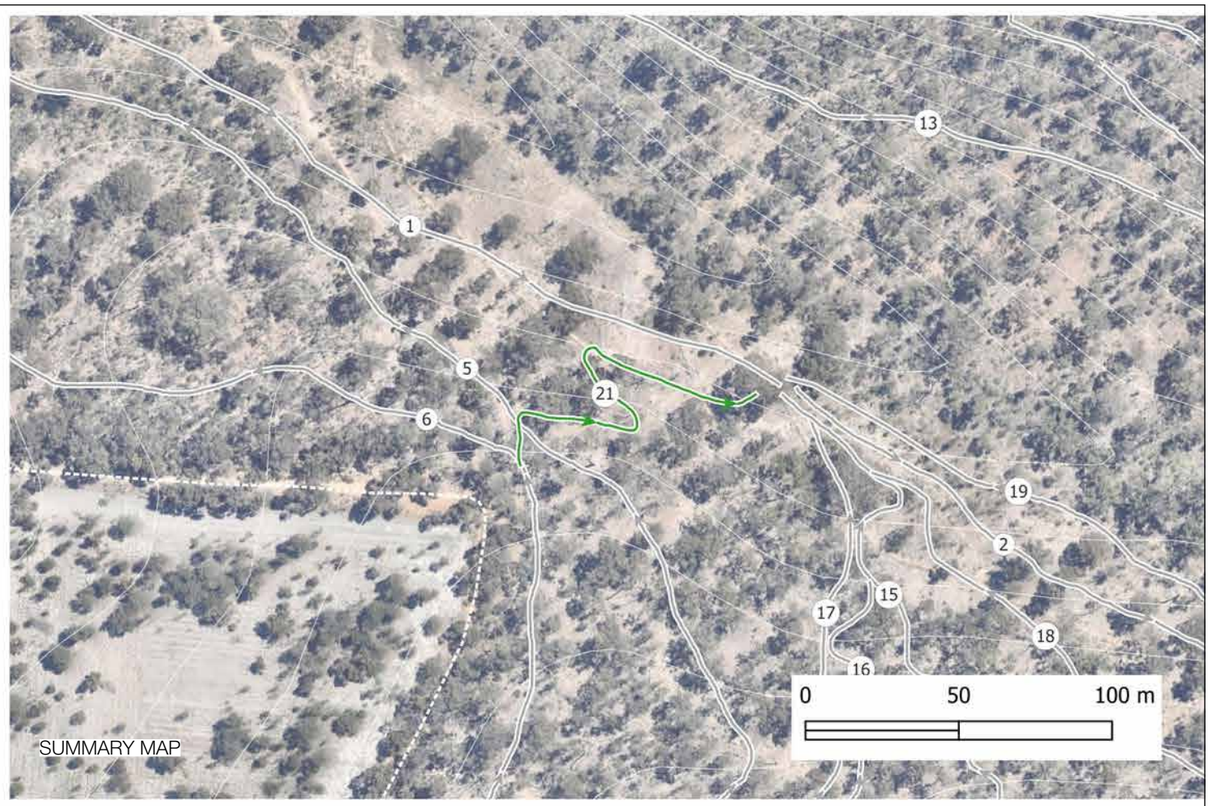
Machinery
- 1.7T Excavator

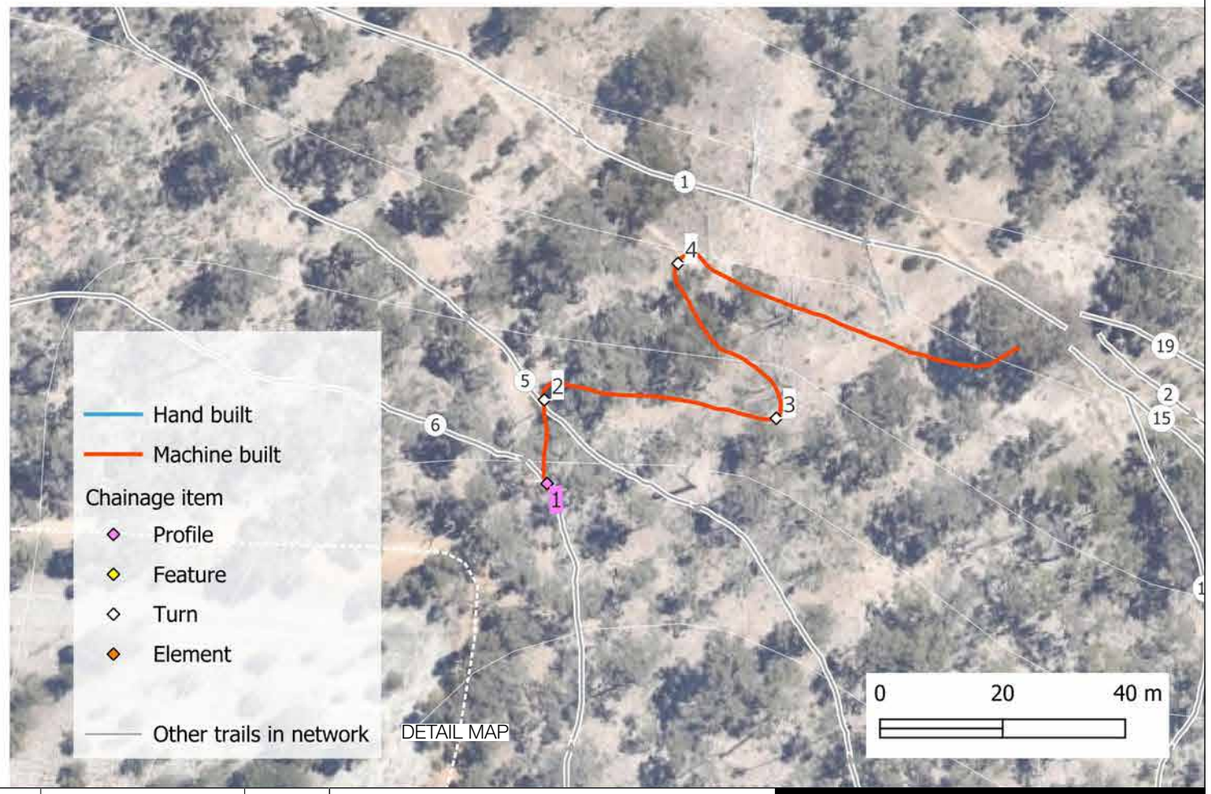
CONSTRUCTION MATERIALS

N/A

CHAINAGE TABLE

	Trail ID	Item	Chainage (m)	Type	Construction notes	Width (m)	Height (m)	Length (m)	Soil type	Required materals
	21	1	0	Profile	Machine build, trail flagged with pink and white tape	0	0	0	Gravel loam	
	21	2	14	Turn	Wide arcing turn to slow blue riders before crossing Trail 5	0	0	0	Gravel loam	Insitu
	21	3	55	Turn	Descending switchback turn	0	0	0	Gravel loam	Insitu soil
	21	4	88	Turn	Broad descending switchback turn to wipe off rider speed into trail node	0	0	0	Gravel loam	Insitu soil





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TRAIL 21 - SUMMARY & DETAIL

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2336_DD59

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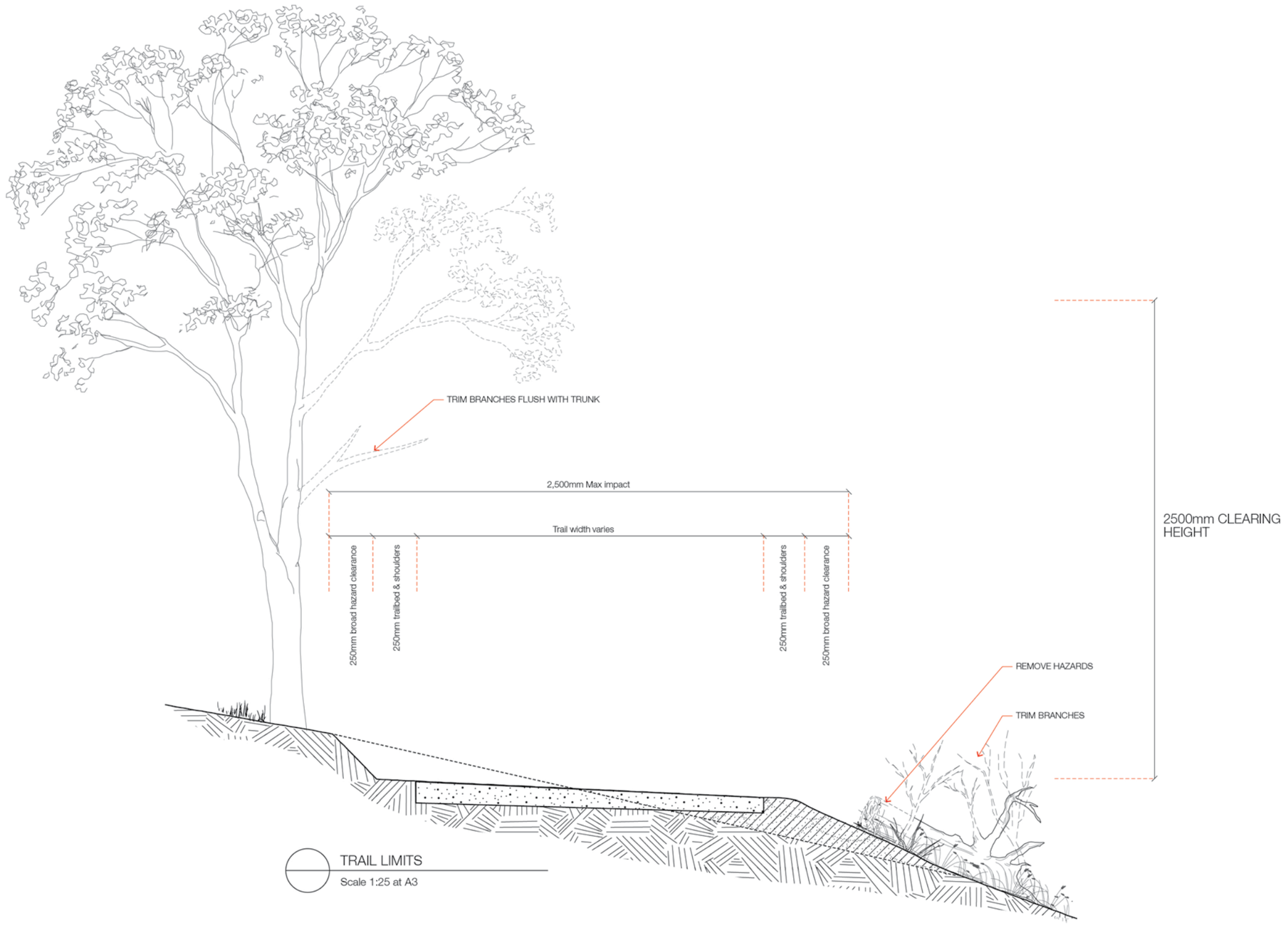

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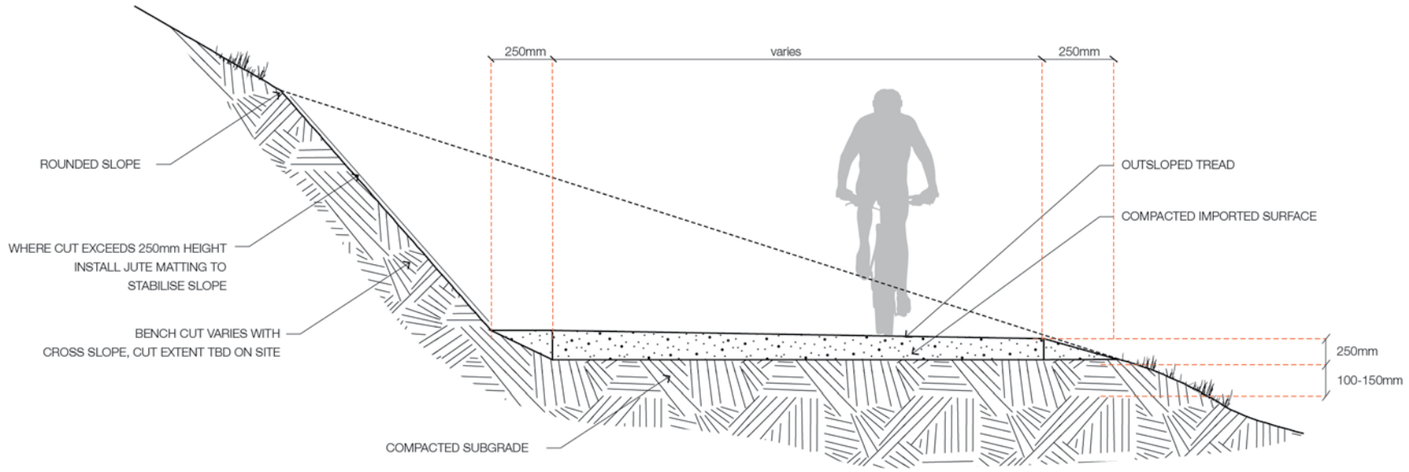
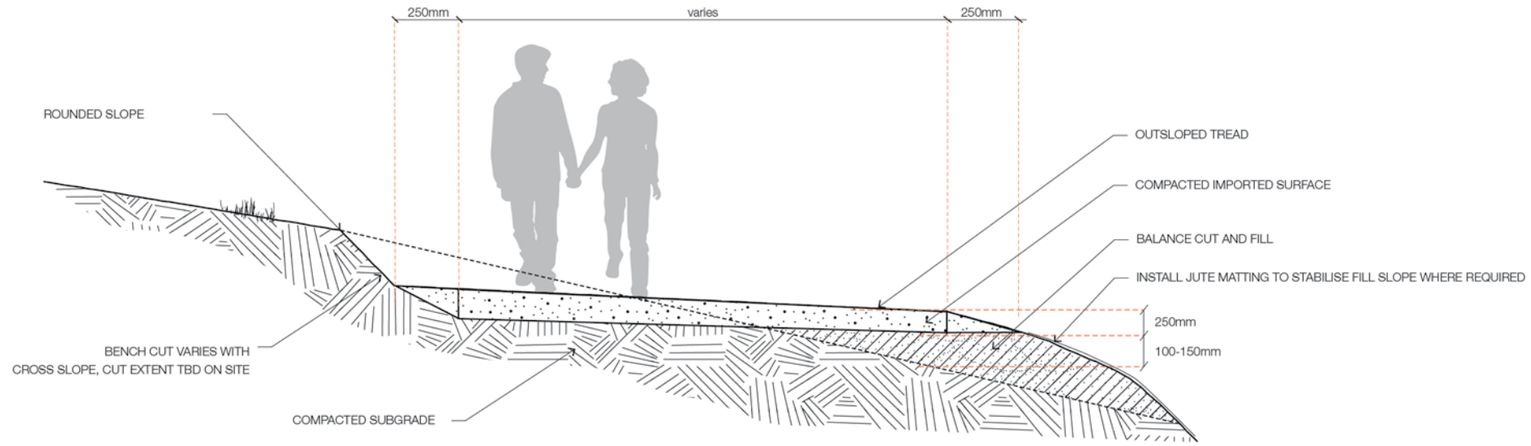


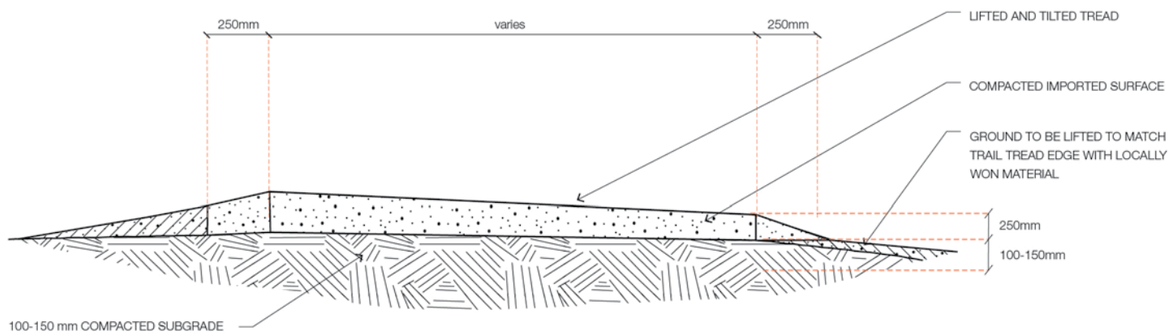
BENCHED TRAIL - IMPORTED SURFACE

Scale 1:25 at A3



PARTIAL BENCH TRAIL - IMPORTED SURFACE

Scale 1:25 at A3



LIFTED AND TILTED TRAIL - IMPORTED SURFACE

Scale 1:25 at A3

NOTES:

- Tread surface should be imported gravel/clay mix 150mm thickness.
- Imported material should be of a texture and colour that fits relative to the surrounding
- location.
  Scarify top layer of existing ground to remove small rocks and organic matter to approx
- 100mm.
  Compact existing subgrade as specified using wheel or track rolling until particles are
- firmly packed.
  Compact surface course as specified using wheel or track rolling until particles are firmly
- packed.
  Install jute matting to stabilise uphill cut and downhill fill slopes
- The topsoil and mineral earth removed from the inner side of the bench shoud be used to
- build up the outer edge of the bench. Excess material should be used locally along the trail where fill material is required.
  Partial bench cut extent to be determined on site
- Lifted and tilted profile to be used in flatter areas with tilt direction shifting to allow for drainage

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DRAWING TITLE
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2336_DD61

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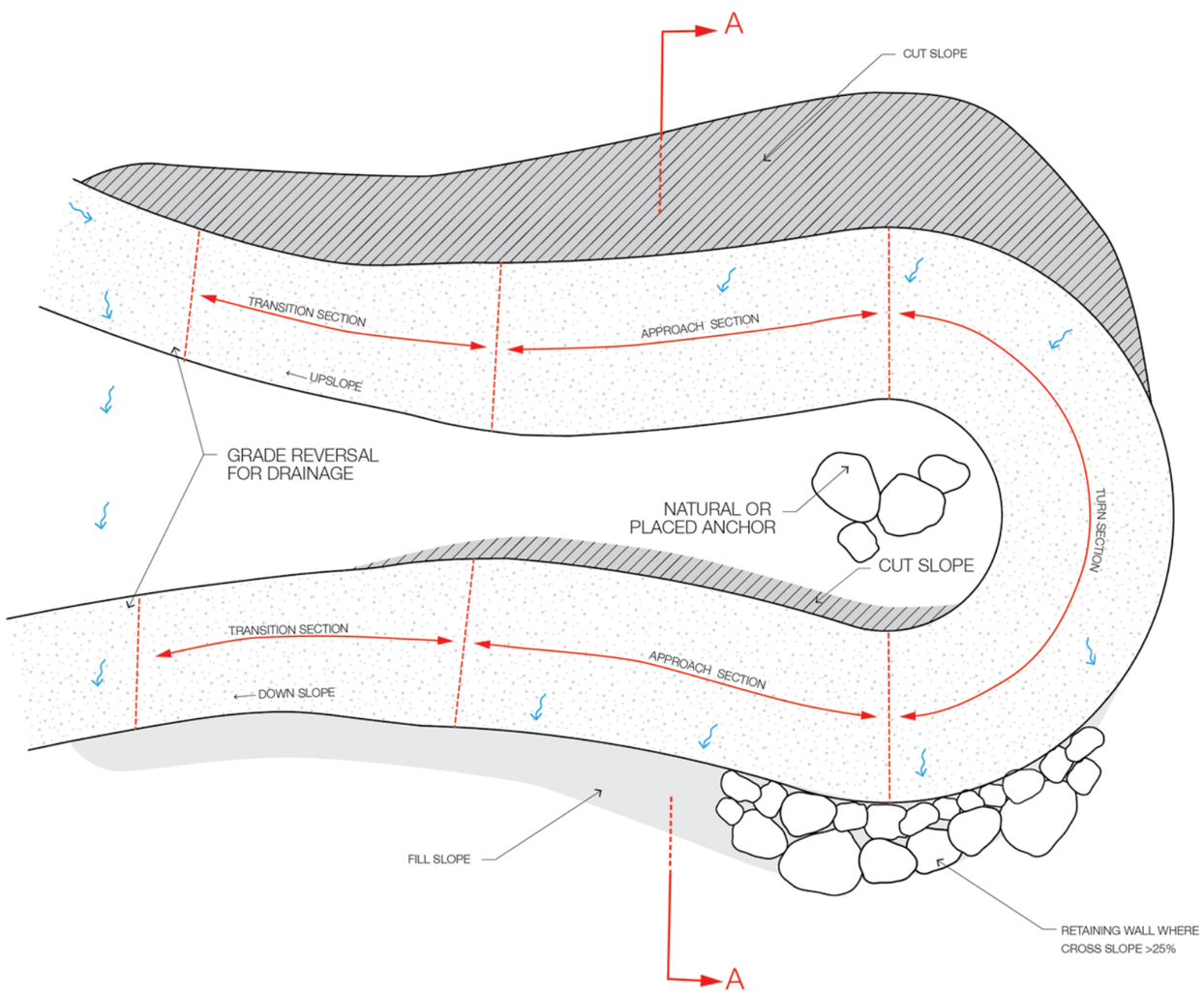
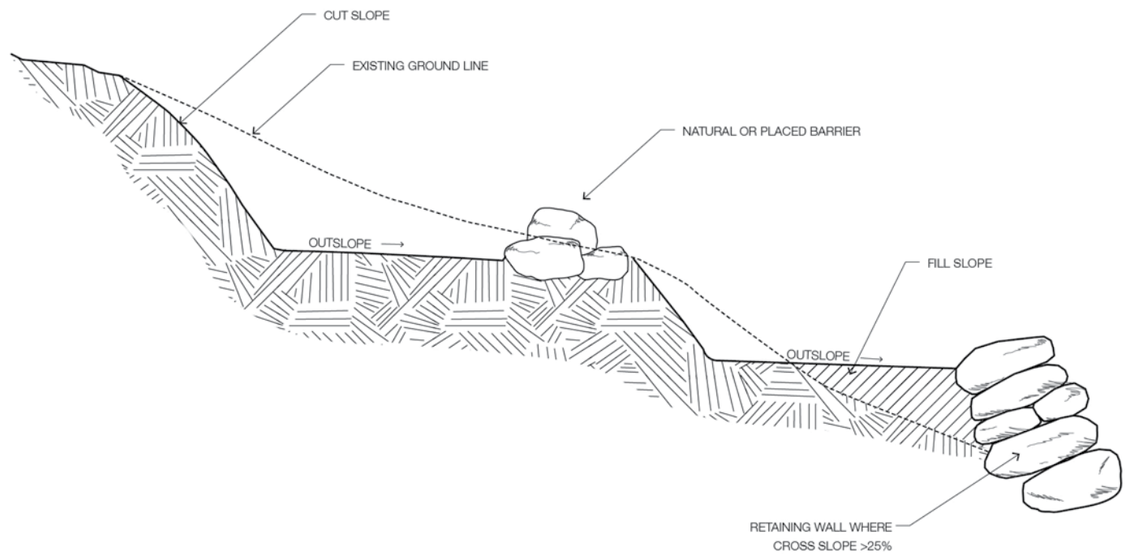
NOTES:

- Standard switchbacks are suitable for shallower sideslopes less than 20%.
- Switchbacks are to be used where there are stacked turns on a slope as they shed water away from the trail downslope
- The switchback depicted is indicative only with variations in shape and dimensions expected with variations in togography and hydrology across the trail alignment.
- Embankment cuts should not exceed 1.5m in height.
- Construct constant grade through both approach sections and turn section.
- Trail widening will be required around the arc of the switchback.
- Use naturally occuring rock where available to stabilise uphill cut and downhill fill.
- Construct grade reversals at entry and exit of switchback to facilitate drainage.
- Drainage outlet should disperse water along the contour or across a broad discharge area to reduce velocities and allow for sediment dropout.



TYPICAL SWITCHBACK / CLIMBING TURN

Scale 1:50 at A3



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DRAWING TITLE
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2336_DD62

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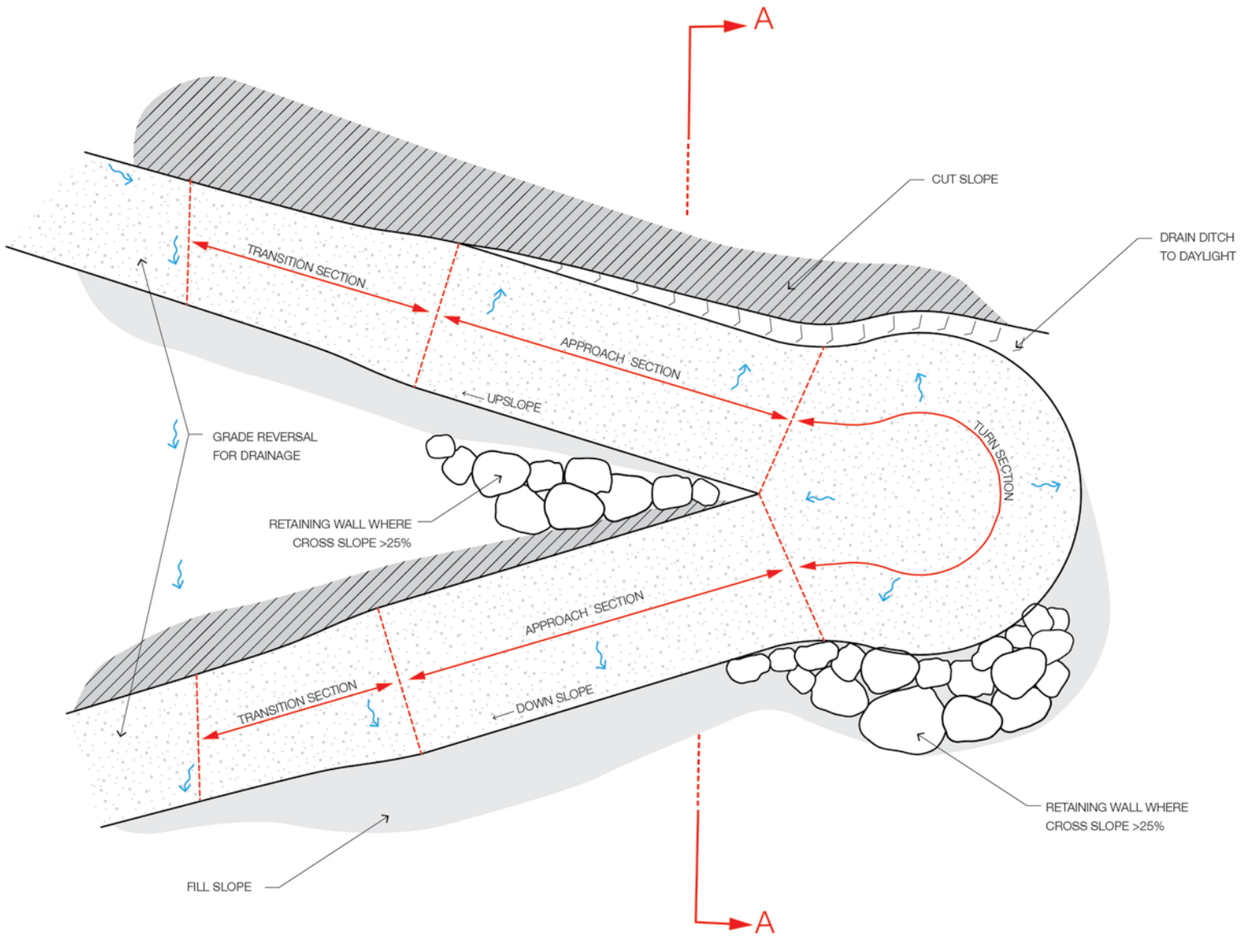
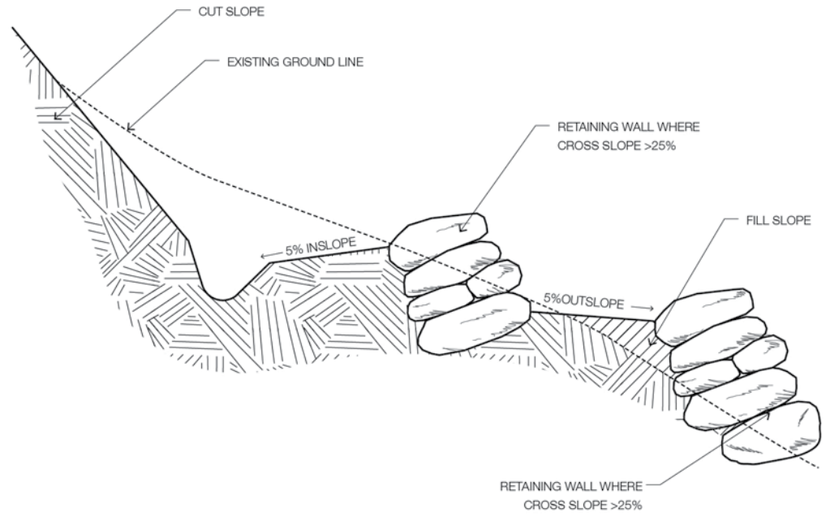
NOTES:

- Platform switchbacks should be used where the sideslope is 20% or greater.
- The switchback depicted is indicative only with variations in shape and dimensions expected with variations in togography and hydrology across the trail alignment.
- Embankment cuts should not exceed 1.5m in height.
- Construct constant grade through both approach sections and turn section.
- Ensure trail surface is insloped 5% approaching the turn and outsloped 5% following the crowned landing.
- Use naturally occuring rock where available to stabilise uphill cut and downhill fill.
- Construct grade reversals at entry and exit of switchback to facilitate drainage.
- Drainage outlet should disperse water along the contour or across a broad discharge area to reduce velocities and allow for sediment dropout.
- Ensure the turn is an adequate distance from the base of tress to reduce impact to the root system and future health of the tree, if not possible protect the roots with rock armouring.



TYPICAL PLATFORM SWITCHBACK

Scale 1:50 at A3



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