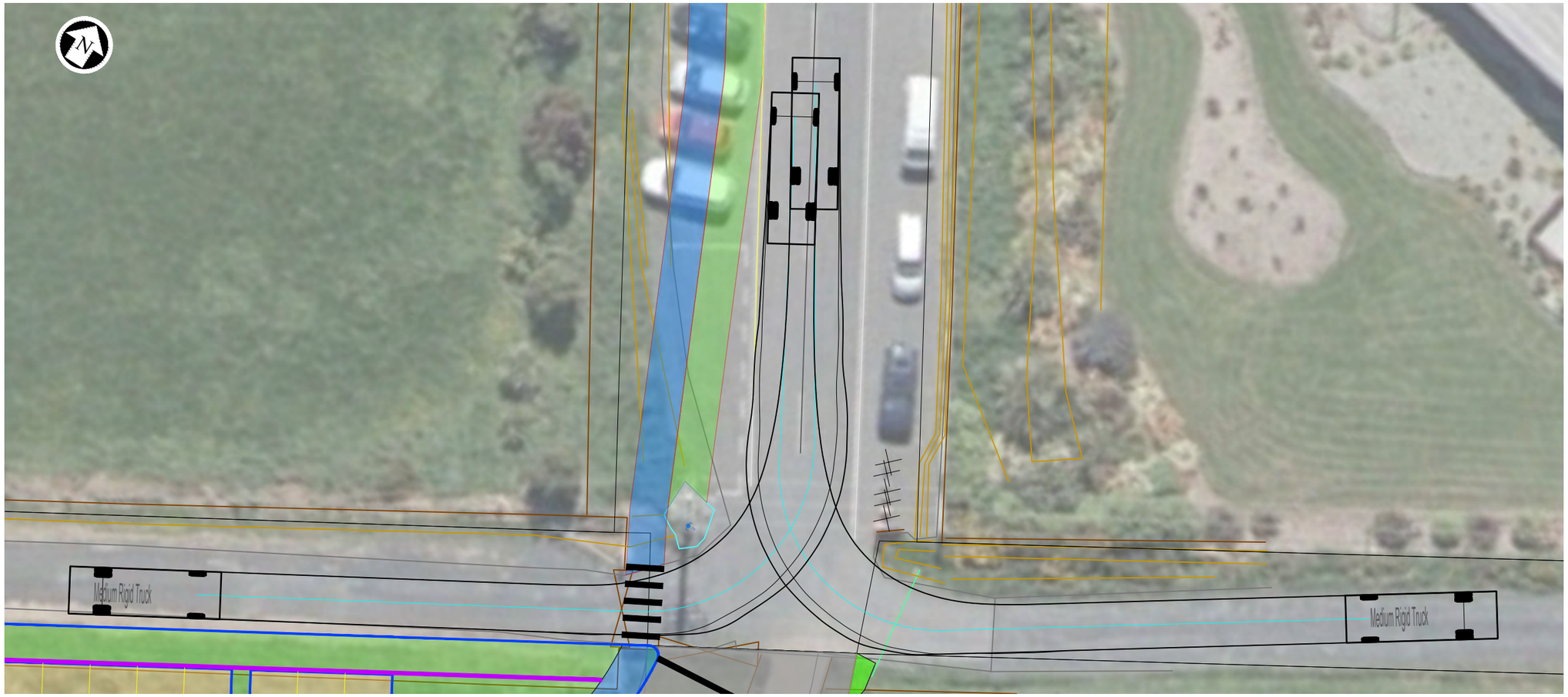
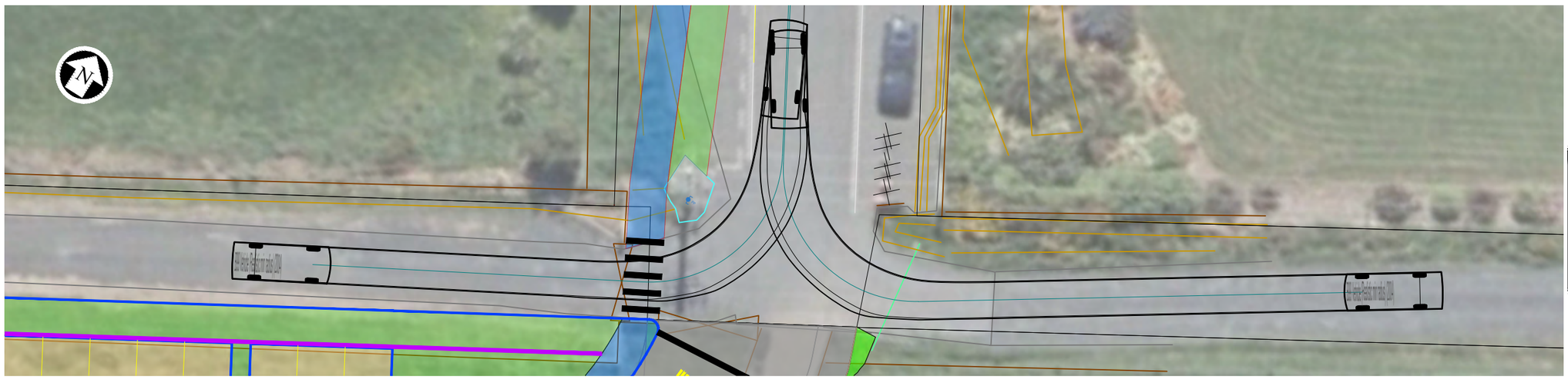
Drawing Plotted: 10 Sep 2020 1:41 p.m.



8m RIGID TRUCK

SCALE 1:250 (A3)



99th PERCENTILE CAR

SCALE 1:250 (A3)

CHECK PRINT

DRG: 3336298-CA-K201_Tracking.dwg
DATE: 10 Sep 2020 1:41 p.m.
PROJECTNAME: ----

DISTRIBUTION	SIGN	DATE
ORIGINATOR		
DRAFTER		
CHECKER		

CONCEPT DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
A	FOR INFORMATION	CG			

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design			Approved For Construction*
Drawn	CG	10.09.20	
Dsg Verifier			
Dwg Check			Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

UNDER REVISION

Title: EXISTING DRIVEWAY VEHICLE TRACKING OUTBOUND

Discipline: CIVIL

Drawing No.: 3336298-CA-K201

Rev.: A

DO NOT SCALE

IF IN DOUBT ASK.

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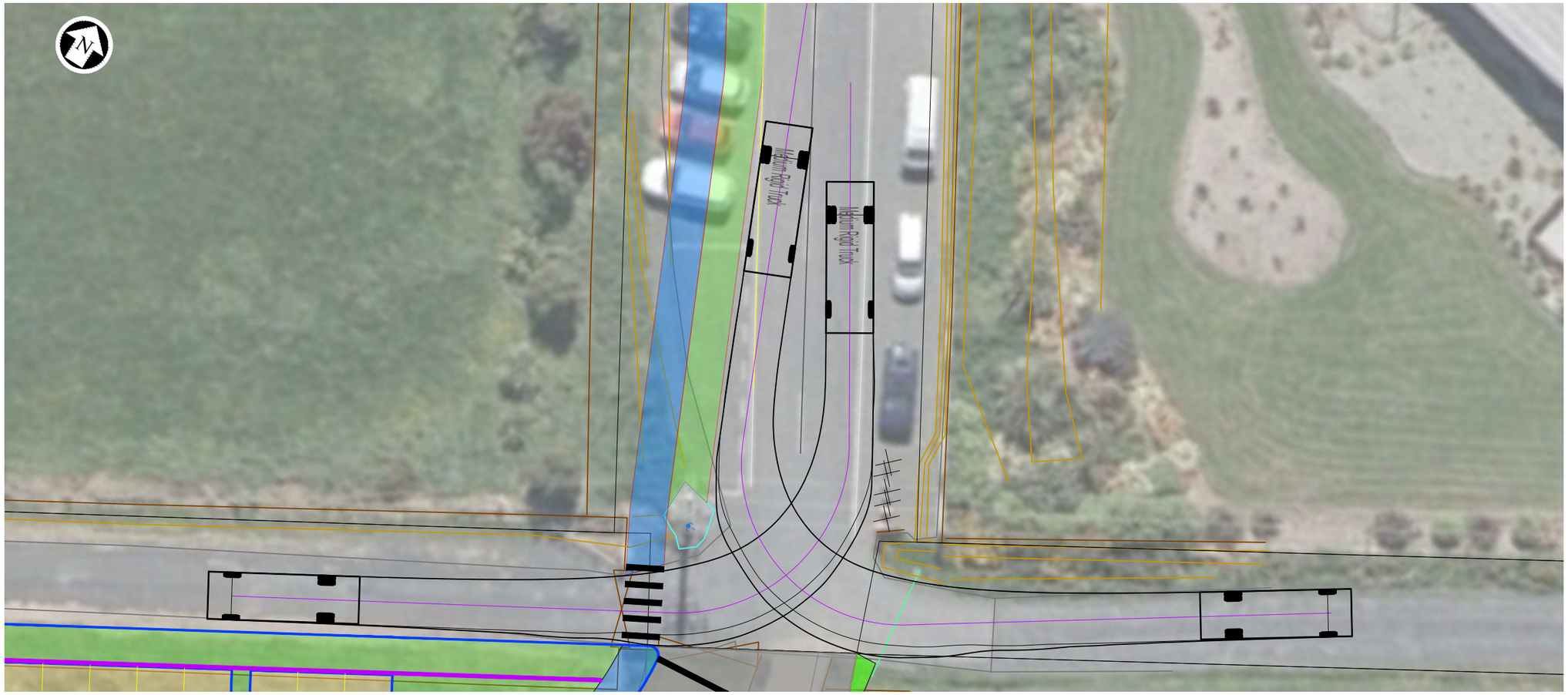
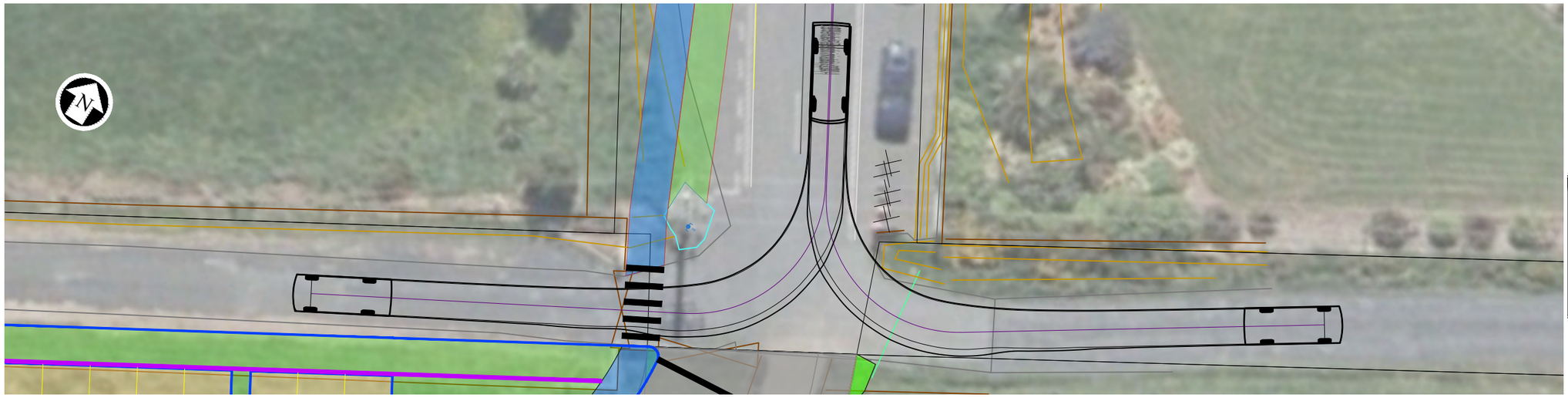
Document No. 3336298-CA-K201_TRACKING.DWG

Drawing Plotted: 10 Sep 2020 1:44 p.m.



8m RIGID TRUCK

SCALE 1:250 (A3)



99th PERCENTILE CAR

SCALE 1:250 (A3)

CHECK PRINT

DRG: 3336298-CA-K202_Tracking.dwg
DATE: 10 Sep 2020 1:44 p.m.
PROJECTNAME: ----

DISTRIBUTION	SIGN	DATE
ORIGINATOR		
DRAFTER		
CHECKER		

CONCEPT DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
A	FOR INFORMATION	CG			

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design			Approved For Construction*
Drawn	CG	10.09.20	
Dsg Verifier			
Dwg Check			Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

UNDER REVISION

Title: EXISTING DRIVEWAY VEHICLE TRACKING INBOUND

Discipline: CIVIL

Drawing No.: 3336298-CA-K202

Rev.: A

DO NOT SCALE

IF IN DOUBT ASK.

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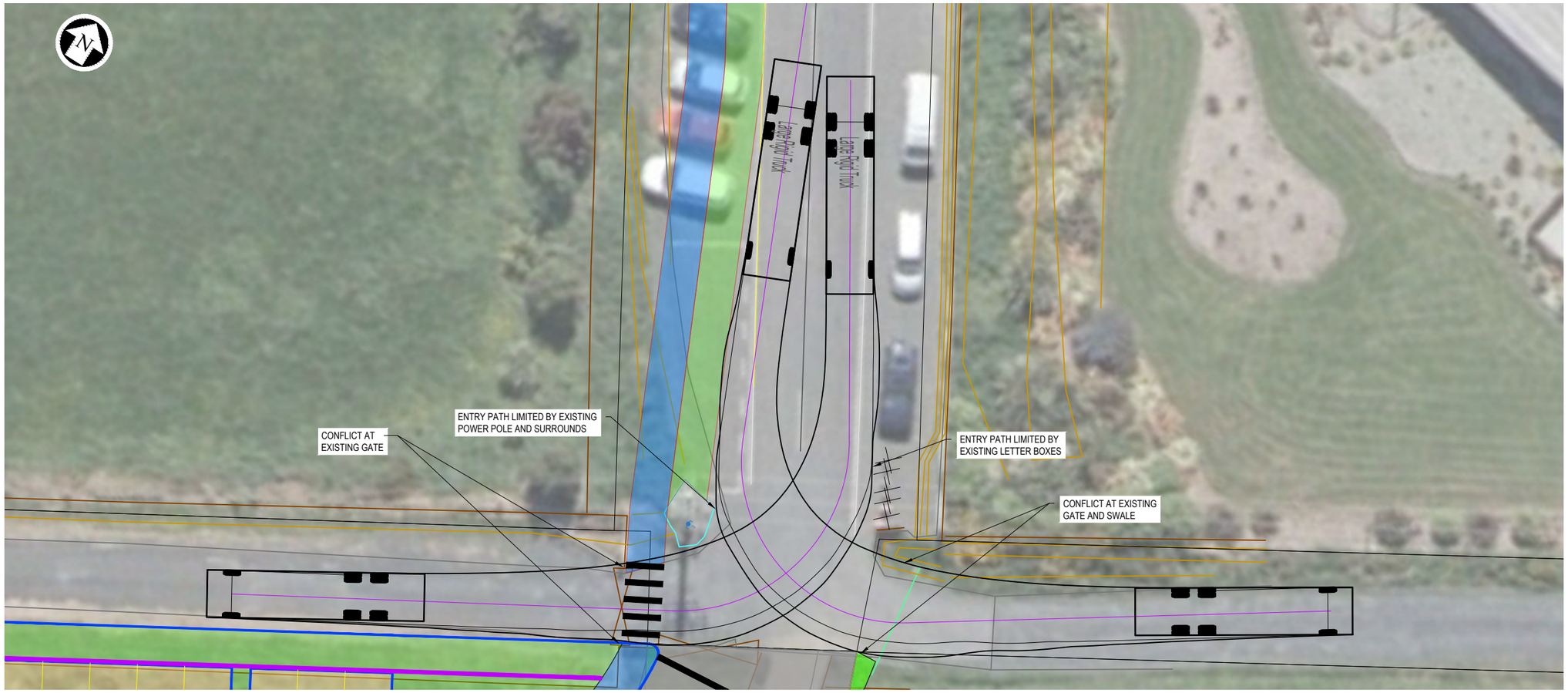
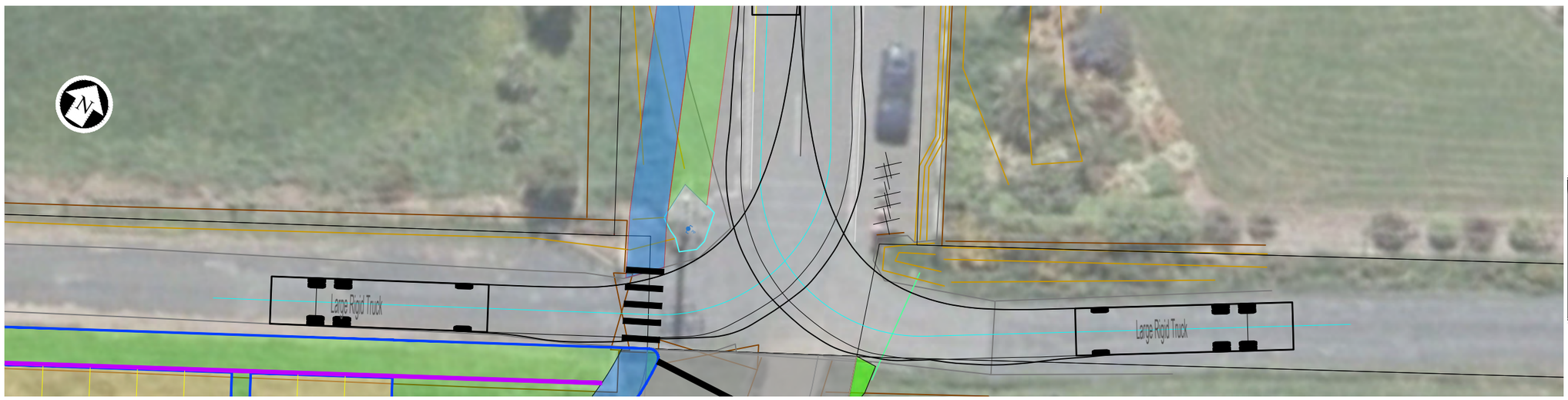
Document No. 3336298-CA-K202_TRACKING.DWG

Drawing Plotted: 10 Sep 2020 2:37 p.m.



INBOUND

SCALE 1:250 (A3)



OUTBOUND

SCALE 1:250 (A3)

CHECK PRINT

DRG: 3336298-CA-K203_Tracking.dwg
DATE: 10 Sep 2020 2:37 p.m.
PROJECTNAME: ----

DISTRIBUTION	SIGN	DATE
ORIGINATOR		
DRAFTER		
CHECKER		

CONCEPT DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
A	FOR INFORMATION	CG			

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design			Approved For Construction*
Drawn	CG	10.09.20	
Dsg Verifier			
Dwg Check			Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

UNDER REVISION

Title: EXISTING DRIVEWAY VEHICLE TRACKING 11.5m RIGID TRUCK

Discipline: CIVIL

Drawing No.: 3336298-CA-K203

Rev.: A

DO NOT SCALE

IF IN DOUBT ASK.

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Document No. 3336298-CA-K203_TRACKING.DWG

Drawing Plotted: 19 Feb 2021 2:11 pm

DRAWING LIST

DRAWING NO.	DRAWING TITLE
3336298-AL-000	COVER SHEET AND DRAWING LIST
3336298-AL-001	KEYNOTES
3336298-AL-010	LANDSCAPE SHEET LAYOUT
3336298-AL-011	LANDSCAPE PLAN SHEET 1 OF 3
3336298-AL-012	LANDSCAPE PLAN SHEET 2 OF 3
3336298-AL-013	LANDSCAPE PLAN SHEET 3 OF 3
3336298-AL-020	STAIRS SHEET 1 OF 3
3336298-AL-021	STAIRS SHEET 2 OF 3
3336298-AL-022	STAIRS SHEET 3 OF 3
3336298-AL-030	DETAILS TYPICAL HARD SURFACES SHEET 1 OF 1
3336298-AL-031	DETAILS STREET FURNITURE SHEET 1 OF 3
3336298-AL-032	DETAILS STREET FURNITURE SHEET 2 OF 3
3336298-AL-033	DETAILS STREET FURNITURE SHEET 3 OF 3
3336298-AL-034	DETAILS MISCELLANEOUS SHEET 1 OF 1
3336298-AL-040	DETAILS TYPICAL PLANTING SHEET 1 OF 1
3336298-AL-041	PLANTING SETOUT SHEET 1 OF 1
3336298-AL-050	PLANTING SCHEDULE

Beca

- LANDSCAPE

Project No 3336298

DUNEDIN CITY COUNCIL
TUNNEL BEACH
CAR PARK

FOR RESOURCE CONSENT AND CLIENT REVIEW

Prepared for

DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

By
Beca

19 FEBRUARY 2021

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT
NOT FOR CONSTRUCTION

Drawing No.	Rev.
3336298-AL-000	C

Document No. 3336298-AL-000.DWG

GENERAL

EXTENT OF WORKS LINE

EV1

EXISTING VEGETATION
EXISTING VEGETATION TO BE RETAINED AND PROTECTED DURING CONSTRUCTION. FOR LOCATION REFER TO SHEETS 3336298-AL-011 & 012 AND THE LANDSCAPE SPECIFICATION FOR DETAILS

SOFT LANDSCAPE

REFER TO SHEET 3336298-AL-011 & 012 FOR LOCATION AND AL-041 FOR DETAILS

SOPHORA MICROPHYLLA
(TN1)

PSEUDOPANAX CRASSIFOLIUS
(TN2)

PLAGIANTHUS REGIUS
(TN3)

AM1
AMENITY MIX 1
REFER TO SHEET 3336298-AL-011 & 012 FOR LOCATION AND AL-041 FOR DETAILS

AM2
AMENITY MIX 2
REFER TO SHEET 3336298-AL-011 & 012 FOR LOCATION AND AL-041 FOR DETAILS

AM3
AMENITY MIX 3
REFER TO SHEET 3336298-AL-011 & 012 FOR LOCATION AND AL-041 FOR DETAILS

AM4
AMENITY MIX 4
REFER TO SHEET 3336298-AL-012 FOR LOCATION AND AL-041 FOR DETAILS

AM5
AMENITY MIX 5
REFER TO SHEET 3336298-AL-012 FOR LOCATION AND AL-041 FOR DETAILS

SC1
SCREENING MIX 1
REFER TO SHEET 3336298-AL-012 FOR LOCATION AND AL-041 FOR DETAILS

SC2
SCREENING MIX 2
REFER TO SHEET 3336298-AL-012 FOR LOCATION AND AL-041 FOR DETAILS

RV1
RE-VEGETATION MIX 1
REFER TO SHEET 3336298-AL-012 FOR LOCATION AND AL-041 FOR DETAILS

SL1
SLOPE MIX 1
REFER TO SHEET 3336298-AL-012 FOR LOCATION AND AL-041 FOR DETAILS

HARD LANDSCAPE

RDS1
ROAD SURFACE
CHIPSEAL SURFACE
REFER CIVIL SHEET 3336298-CA-017 FOR LOCATIONS AND 3336298-CA-017 FOR DETAILS

CFP1
CONCRETE FOOTPATH
EXPOSED AGGREGATE FINISH
REFER CIVIL SHEET 3336298-CA-017 FOR LOCATIONS AND 3336298-CA-017 FOR DETAILS.
FOR SURFACE FINISH REFER TO LANDSCAPE SPECIFICATION AND SHEET 3336298-AL-030 FOR DETAILS

GRAV1
GRAVEL FOOTPATH
REFER CIVIL SHEET 3336298-CA-017 FOR LOCATIONS AND 3336298-CA-017 FOR DETAILS

STREET FURNITURE

BIN
RUBBISH BINS
ORC STANDARD TRIPLE BIN
REFER TO 336298-AL-012 FOR LOCATIONS AND 336298-AL-031 FOR DETAILS

TBS1
SEATING
PLATFORM BENCH SEAT - AE TILLEY
REFER TO 336298-AL-012 FOR LOCATIONS AND 336298-AL-033 FOR DETAILS

TS1
TIMBER STAIRS
STAIRS (TS1, TS2, TS3)
REFER TO 336298-AL-011 & 012 FOR LOCATIONS AND 336298-AL-020 & 021 FOR DETAILS

FB1
FEATURE BOULDERS
700-900mm DIAMETER BASALT BOULDERS
LOCALLY SOURCED - BASALT OR SIMILAR APPROVED.
REFER TO 3336298-AL- 011 TO 013 FOR LOCATIONS AND AL-034 FOR DETAILS

BR1
BIKE RACK
CITISTYLE CYCLE HOOP
REFER TO 336298-AL-012 FOR LOCATIONS AND 336298-AL-031 FOR DETAILS

WS1
WHEELSTOP
TIMBER WHEELSTOP
REFER TO 336298-AL-012 FOR LOCATIONS AND 336298-AL-032 FOR DETAILS

TF1
FENCE
TIMBER FENCE
REFER TO 336298-AL-012 FOR LOCATIONS AND 336298-AL-020 FOR DETAILS

BY OTHERS

RW1
RETAINING WALL
TIMBER RETAINING WALL
REFER CIVIL SHEET 3336298-SE-010 & 011 FOR DETAILS

WW1
WATER AND WASTE TANKS
TO BE DESIGNED AND BUILT BY OTHERS
NOT IN THIS CONTRACT

SGN1
TRACK SIGN
STANDARD DOC SIGN TO BE SUPPLIED AND INSTALLED BY OTHERS

GENERAL NOTES:

1. ALL LANDSCAPE WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE LANDSCAPE SPECIFICATION.
2. ALL DIMENSIONS AND LEVELS SHALL BE CONFIRMED ON SITE BY THE CONTRACTOR PRIOR TO UNDERTAKING WORKS
3. THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO UNDERTAKING DEMOLITION OR CONSTRUCTION WORKS.
4. ALL SETOUT OF PAVEMENT AND GARDEN BED EDGES SHALL BE MARKED ON SITE BY THE CONTRACTOR AND THEN CONFIRMED WITH THE ENGINEER PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL ENSURE SUITABLE DRAINAGE IS ACHIEVED IN TOPSOIL AND SUBSOIL LAYERS IN ALL GARDEN AND LAWN AREAS - TO ENSURE GOOD ESTABLISHMENT AND GROWTH OF PLANTS AND GRASS. THIS SHALL INCLUDE REMOVAL OF ALL COMPACTION TO SUBSOIL CREATED DURING THE DEMOLITION AND CONSTRUCTION PROCESS
6. FOR SETOUT OF PAVED AND GARDEN AREAS REFER TO CIVIL 3D MODEL.
7. RETAINING WALL TO BE DESIGNED TO CIVIL DETAILS REFER TO CIVIL SHEET 336298-SE-011 FOR EXTENT OF WALLS AND 336298-SE-010 FOR DETAILS.
8. TIMBER STAIRS (TS1 & TS3) TO BE FIXED TO RETAINING WALLS. REFER TO 336298-AL-020 TO 022 FOR DETAILS. RETAINING WALL POSTS TO BE ADJUSTED LOCALLY TO AVOID CLASHES WITH POSTS AND STRINGERS.

WORK AROUND EXISTING TREES

1. ALL CARE SHALL BE UNDERTAKEN WHEN WORKING AROUND EXISTING TREES - REFER TO SPECIFICATION FOR FURTHER DETAIL AND GUIDANCE.
2. ALL CONSTRUCTION WORKS THAT TAKE PLACE WITHIN THE DRIP-LINE / ROOT ZONE AREAS OF ALL EXISTING TREES SHALL BE UNDERTAKEN IN CONSULTATION WITH A QUALIFIED ARBORIST, INCLUDING DIRECT ON-SITE SUPERVISION AS REQUIRED.

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) NTS
Reduced Scale (A3) NTS

Design	JB	20.09.20	Approved For Construction*
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: KEYNOTES SHEET 1 OF 1

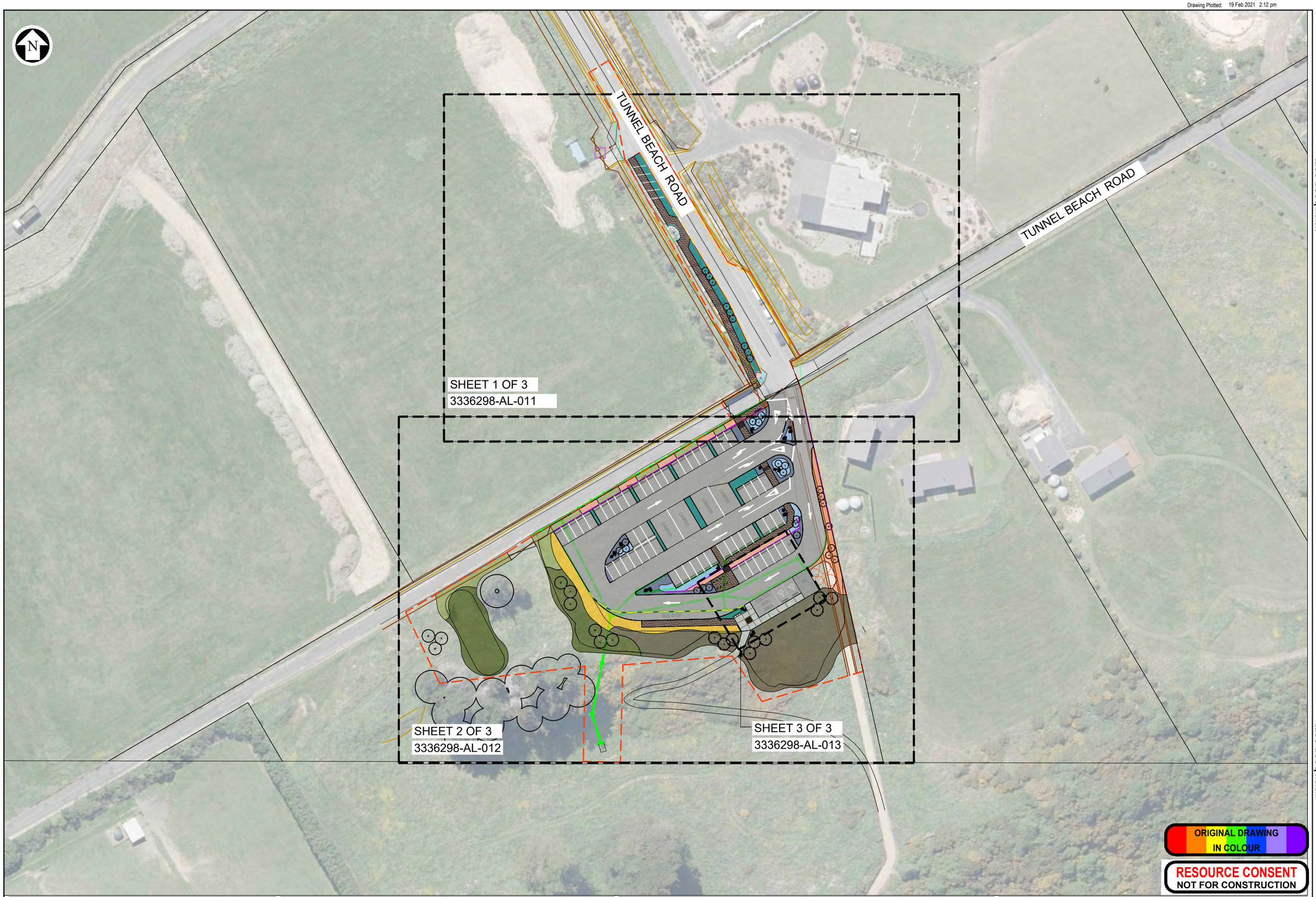
Discipline: LANDSCAPE

Drawing No.: 3336298-AL-001

Rev.: C

Document No. 3336298-AL-001.DWG

Drawing Plotted: 19 Feb 2021 2:12 pm



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ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	JB	20.09.20	Approved For Construction*
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: SHEET LAYOUT SHEET 1 OF 1

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-010

Rev.: C

Document No. 3336298-AL-010.DWG

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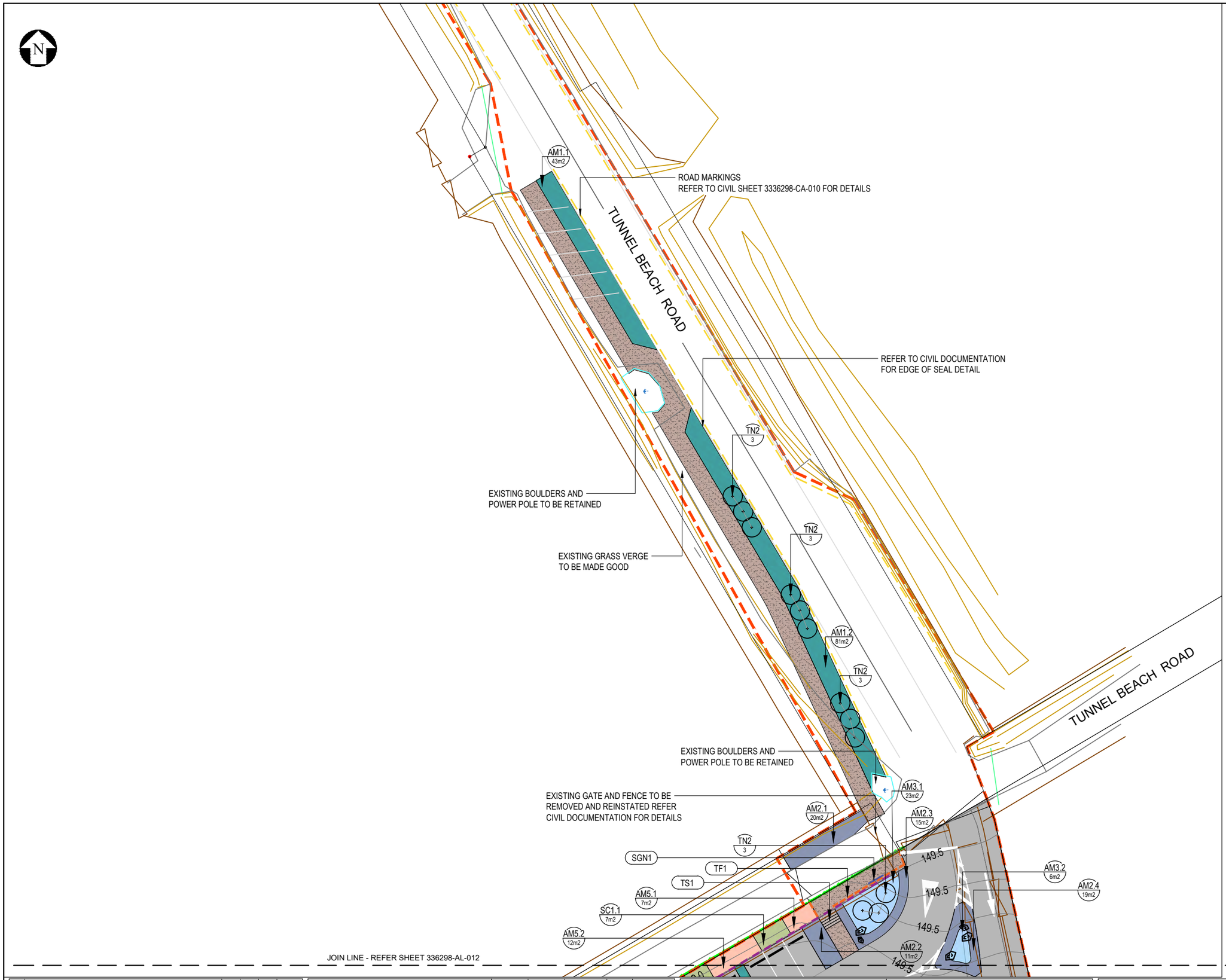
Drawing Plotted: 19 Feb 2021 2:13 pm



LEGEND:

- EXTENT OF WORKS
- EXISTING VEGETATION (EV1)

SOFT SCAPE

- TN1: SOPHORA MICROPHYLLA
- TN2: PSEUDOPANAX CRASSIFOLIUS
- TN3: PLAGIANTHUS REGIUS
- AMENITY MIX 1 **(AM1)**
- AMENITY MIX 2 **(AM2)**
- AMENITY MIX 3 **(AM3)**
- AMENITY MIX 4 **(AM4)**
- AMENITY MIX 5 **(AM5)**
- SCREENING MIX 1 **(SC1)**
- SCREENING MIX 2 **(SC2)**
- RE-VEGETATION MIX **(RV1)**
- SLOPE MIX 1 **(SL1)**

HARD SCAPE

- ROAD SURFACE (RDS1) REFER CIVIL FOR DETAILS
- CONCRETE FOOTPATH (CFP1) REFER CIVIL FOR DETAILS
- GRAVEL FOOTPATH (GRAV1) REFER CIVIL FOR DETAILS
- DCC STD. BINS (BIN) (EXISTING BINS ON SITE TO BE RELOCATED)
- TIMBER BENCH SEAT (TBS1)
- TIMBER STAIRS (TS1, TS2, TS3)
- FEATURE BOULDERS (FB1)
- CYCLE RACKS (CY1)
- TIMBER WHEEL STOP (WS1)
- TIMBER FENCE (TF1)
- TRACK SIGN - GREEN / YELLOW (SGN1) DESIGNED AND BUILT BY OTHERS
- WATER AND WASTE TANKS (WW1) DESIGNED AND BUILT BY OTHERS
- RETAINING WALL (RW1) REFER CIVIL FOR DETAILS

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	28.09.20

Drawing Originator: Beca

Original Scale (A1) 1:200
Reduced Scale (A3) 1:400

			Date
Design	JB	20.09.20	Approved For Construction*
Drawn	BT	20.09.20	
Dsg Verifier	JC	25.09.20	
Dwg Check	JB	23.09.20	

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: LANDSCAPE PLAN SHEET 1 OF 3

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-011

Rev.: C

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Document No. 3336298-AL-011.DWG

Drawing Plotted: 19 Feb 2021 2:15 pm

JOIN LINE - REFER SHEET 336298-AL-011

EXISTING TREE TO BE RETAINED AND PROTECTED DURING CONSTRUCTION

EXISTING VEGETATION TO BE RETAINED AND PROTECTED DURING CONSTRUCTION

FUTURE TRACK NOT PART OF THIS CONTRACT

REFER TO SHEET 336298-AL-013 FOR MORE DETAIL

BY OTHERS

CAMPER

BUS STOP

CONCES-SION AREA

WC

LEGEND:

- EXTENT OF WORKS
- EXISTING VEGETATION (EV1)

SOFT SCAPE

- TN1: SOPHORA MICROPHYLLA
- TN2: PSEUDOPANAX CRASSIFOLIUS
- TN3: PLAGIANTHUS REGIUS
- AMENITY MIX 1 **(AM1)**
- AMENITY MIX 2 **(AM2)**
- AMENITY MIX 3 **(AM3)**
- AMENITY MIX 4 **(AM4)**
- AMENITY MIX 5 **(AM5)**
- SCREENING MIX 1 **(SC1)**
- SCREENING MIX 2 **(SC2)**
- RE-VEGETATION MIX **(RV1)**
- SLOPE MIX 1 **(SL1)**

HARD SCAPE

- ROAD SURFACE (RDS1) REFER CIVIL FOR DETAILS
- CONCRETE FOOTPATH (CFP1) REFER CIVIL FOR DETAILS
- GRAVEL FOOTPATH (GRAV1) REFER CIVIL FOR DETAILS
- DCC STD. BINS (BIN) (EXISTING BINS ON SITE TO BE RELOCATED)
- TIMBER BENCH SEAT (TBS1)
- TIMBER STAIRS (TS1, TS2, TS3)
- FEATURE BOULDERS (FB1)
- CYCLE RACKS (CY1)
- TIMBER WHEEL STOP (WS1)
- TIMBER FENCE (TF1)
- TRACK SIGN - GREEN / YELLOW (SGN1) DESIGNED AND BUILT BY OTHERS
- WATER AND WASTE TANKS (WW1) DESIGNED AND BUILT BY OTHERS
- RETAINING WALL (RW1) REFER CIVIL FOR DETAILS

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1)	1:200	Design	JB 20.09.20
Reduced Scale (A3)	1:400	Drawn	BT 20.09.20
		Dsg Verifier	JC 28.09.20
		Dwg Check	JB 29.09.20

Approved For Construction* Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: LANDSCAPE PLAN SHEETS 2 OF 3

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-012 Rev.: C

DO NOT SCALE

IF IN DOUBT ASK.

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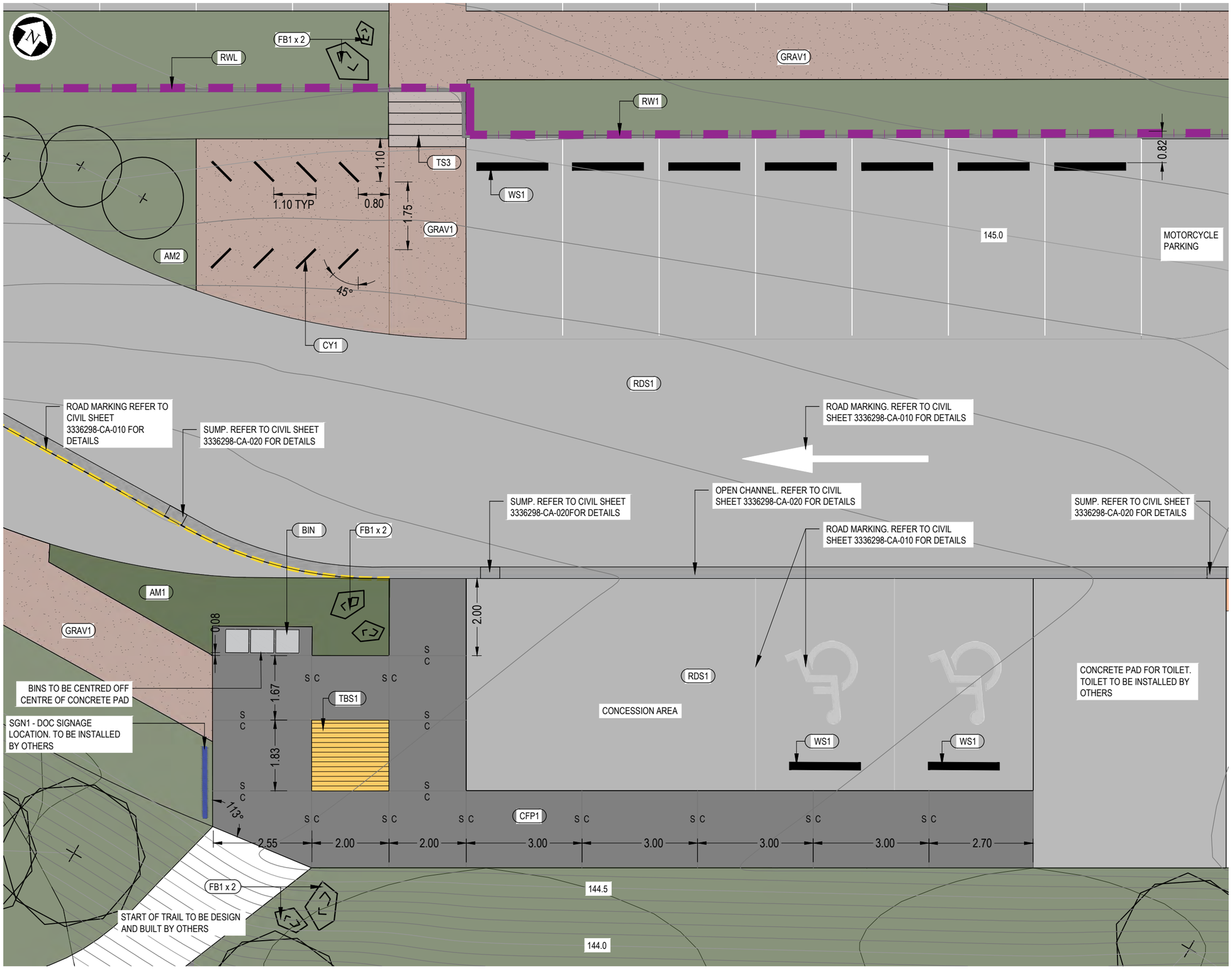
Document No.: 3336298-AL-012.DWG

Drawing Plotted: 19 Feb 2021 2:14 pm



LEGEND:

SOFT SCAPE

- TN1: SOPHORA MICROPHYLLA
- TN2: PSEUDOPANAX CRASSIFOLIUS
- PLANTING REFER SHEET AL-011 & 012 FOR MORE INFORMATION

HARD SCAPE

- ROAD SURFACE (RDS1) REFER CIVIL FOR DETAILS
- CONCRETE FOOTPATH (CFP1) REFER CIVIL FOR DETAILS
- GRAVEL FOOTPATH (GRAV1) REFER CIVIL FOR DETAILS
- DCC STD. BINS (BIN) (EXISTING BINS ON SITE TO BE RELOCATED)
- TIMBER BENCH SEAT (TBS1)
- TIMBER STEPS (TS1, TS2, TS3)
- FEATURE BOULDERS (FB1)
- CYCLE RACKS (CY1)
- TIMBER WHEEL STOP (WS1)
- TRACK SIGN - GREEN / YELLOW (SGN1) DESIGNED AND BUILT BY OTHERS
- RETAINING WALL (RW1) REFER CIVIL FOR DETAILS

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ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:50
Reduced Scale (A3) 1:100

Design	JB	20.09.20	Approved For Construction*
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: LANDSCAPE PLAN SHEET 3 OF 3

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-013

Rev.: C

Document No. 3336298-AL-013.DWG

DO NOT SCALE

IF IN DOUBT ASK.

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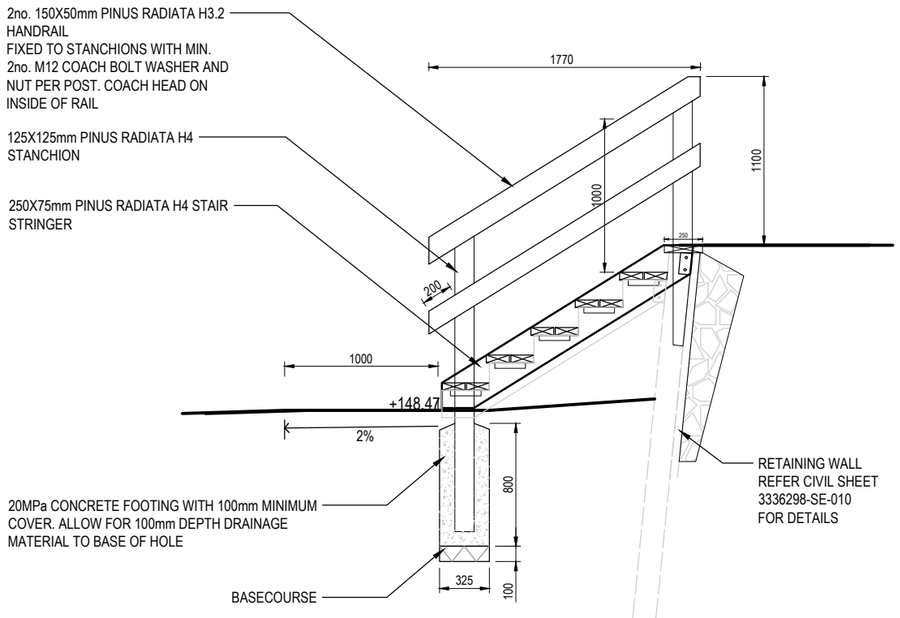
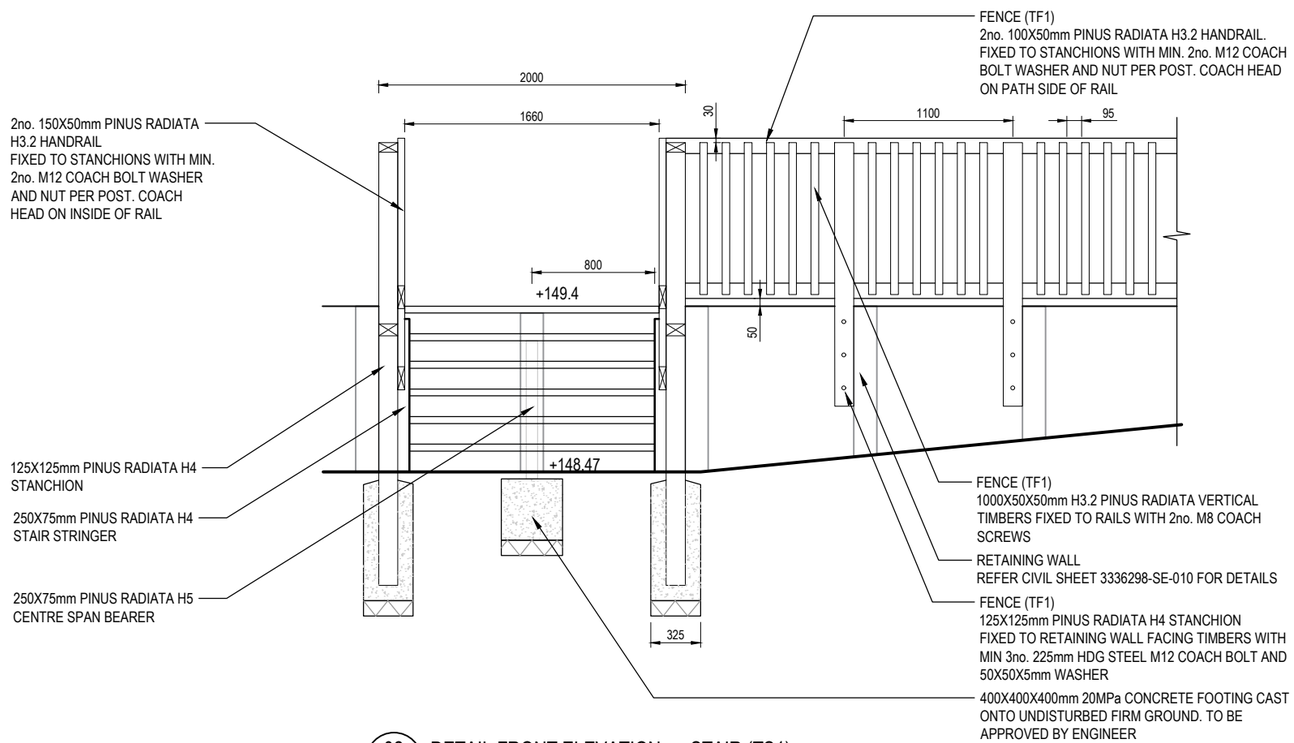
NOTES:

1. STAIR AND BARRIER CONSTRUCTION TO MEET SNZ HB 8630:2004.
2. ALL DIMENSIONS TO BE VERIFIED AND MEASURED ON SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK
3. IN TIMBER-TO-TIMBER BOLTED JOINTS WHERE THE BOLT IS NOT IN TENSION, EVERY BOLT SHALL BE PROVIDED WITH A WASHER AT EACH END, OF SIZE NOT LESS THAN 35mmx35mmx5mm FOR BOLTS NOT EXCEEDING 12mm DIAMETER.OR 50mmx50mmx4mm FOR BOLTS NOT EXCEEDING 20mm DIAMETER
4. ALL TIMBER TO BE H4 UNLESS NOTED OTHERWISE
5. ALL TIMBER TO BE DRESSED UNLESS NOTED OTHERWISE
6. ALL TIMBER TO BE PINUS RADIATA UNLESS NOTED OTHERWISE
7. ALL TIMBER TO HAVE 5mm CHAMFER WITH SMOOTH SURFACE TO ENSURE SMOOTH TOUGH
8. ALL STEELWORK AND FIXINGS TO BE HDG UNLESS NOTED OTHERWISE
9. SITE TREAT ALL CUTS IN HS TIMBER TO MANUFACTURERS SPECIFICATIONS
10. DESIGN LIVE LOAD 4KPa
11. BOLTS ARE TO BE 316 STAINLESS STEEL MARINE GRADE AND GREASED THROUGH TIMBER
12. SITE TREAT ALL CUTS TO H5 TIMBER TO BE TREATED WITH PRESERVATIVE IN ACCORDANCE WITH NZMP 3640:2003
13. ALL THREADS TO BE COVERED WITH TENSAR SS20 OR DURAGRID 20/20 GEOGRID MESH FIXED WITH 19mm SS STAPLES AT 100 CRS ON EDGES AND 200 CRS INTERNALLY
14. FOR RETAINING WALL DETAILS REFER TO CIVIL SHEET 3336298-SE-010 & 011



01 - DETAIL SECTION STAIR (TS1)
1:20 @ A1 1:40 @ A3



02 - DETAIL FRONT ELEVATION STAIR (TS1)
1:20 @ A1 1:40 @ A3

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:250	Design JB	20.09.20	Approved For Construction*
	Drawn BT	20.09.20	
Reduced Scale (A3) 1:500	Dsg Verifier JC	28.09.20	
	Dwg Check JB	29.09.20	Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: STAIRS SHEET 1 OF 3

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-020

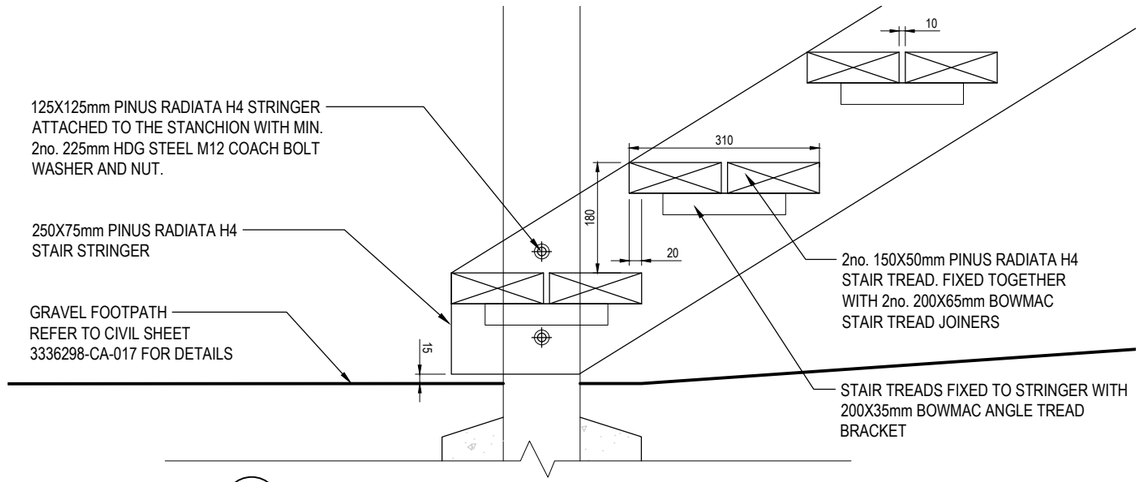
Rev.: C

DO NOT SCALE

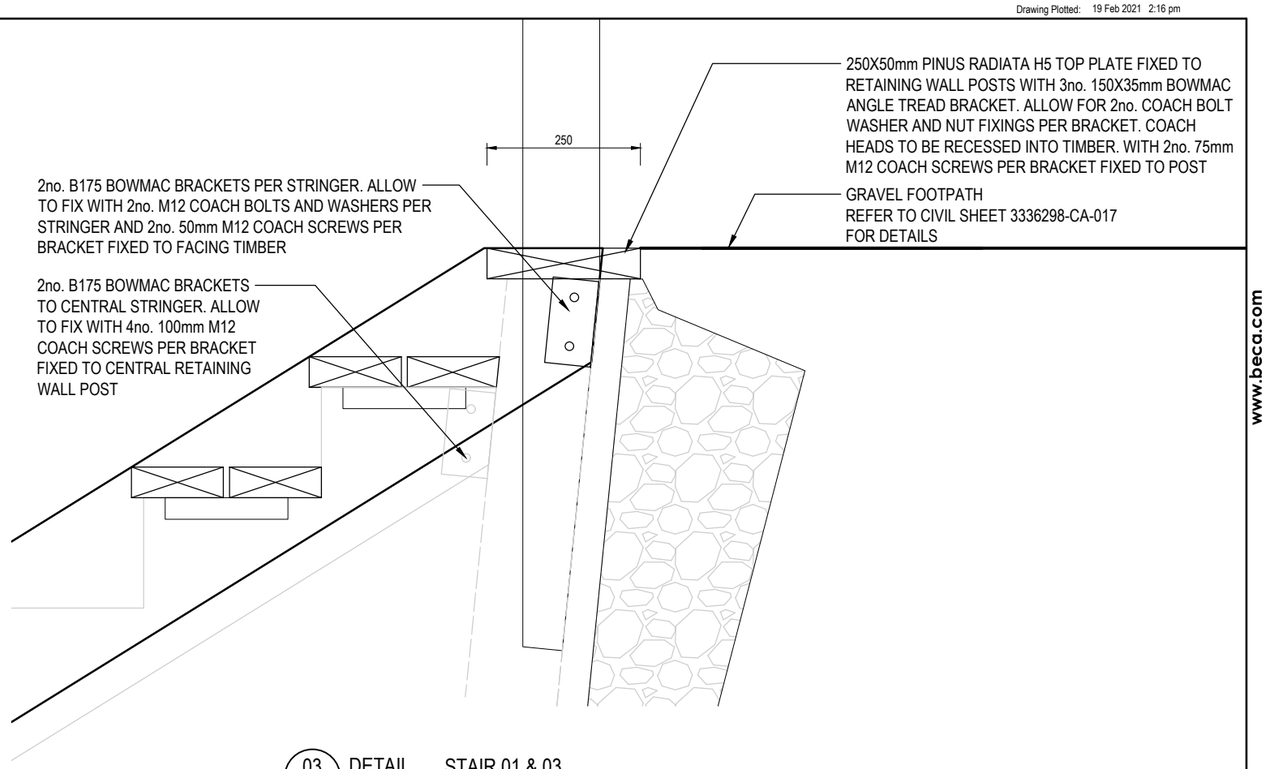
IF IN DOUBT ASK.

NOTES:

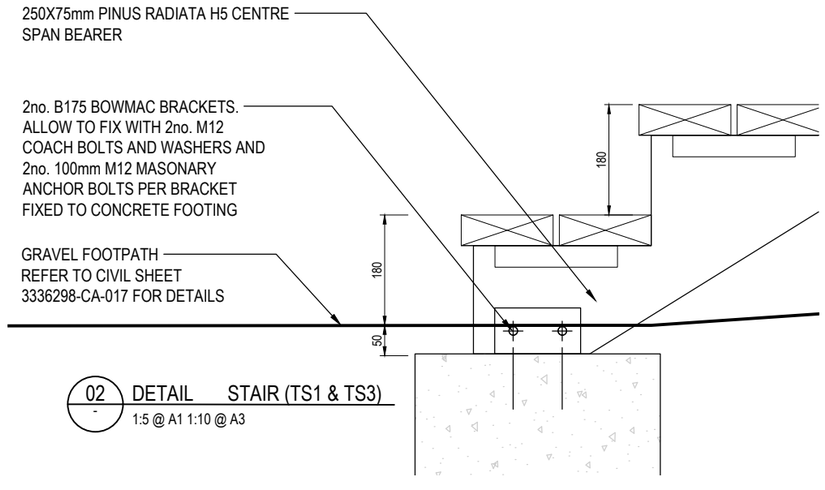
1. REFER TO 3336298-AL-020



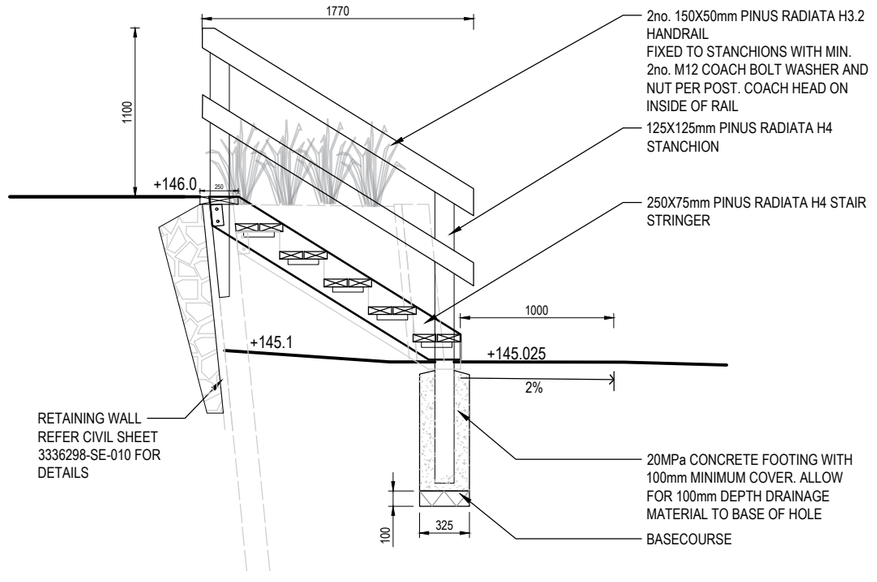
01 - DETAIL STAIR (TS1 & TS3)
1:5 @ A1 1:10 @ A3



03 - DETAIL STAIR 01 & 03
1:5 @ A1 1:10 @ A3



02 - DETAIL STAIR (TS1 & TS3)
1:5 @ A1 1:10 @ A3



04 - DETAIL SECTION STAIR (TS3)
1:20 @ A1 1:40 @ A3

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	JB	20.09.20	Approved For Construction*
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

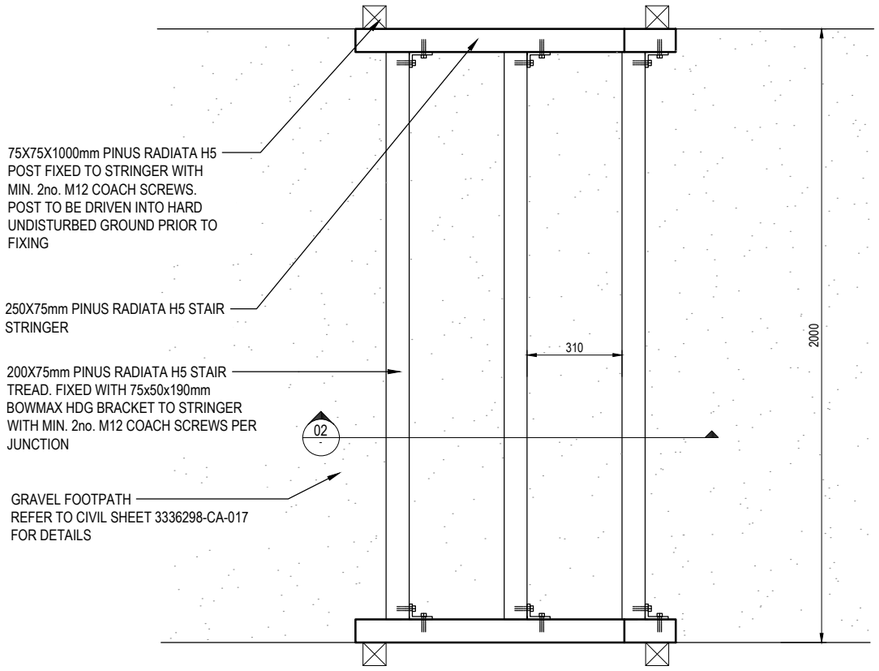
Project: TUNNEL BEACH CAR PARK

Title: STAIRS SHEET 2 OF 3

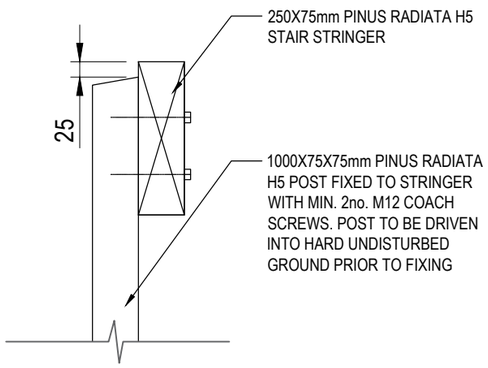
Discipline: LANDSCAPE
Drawing No.: 3336298-AL-021
Rev.: C

NOTES:

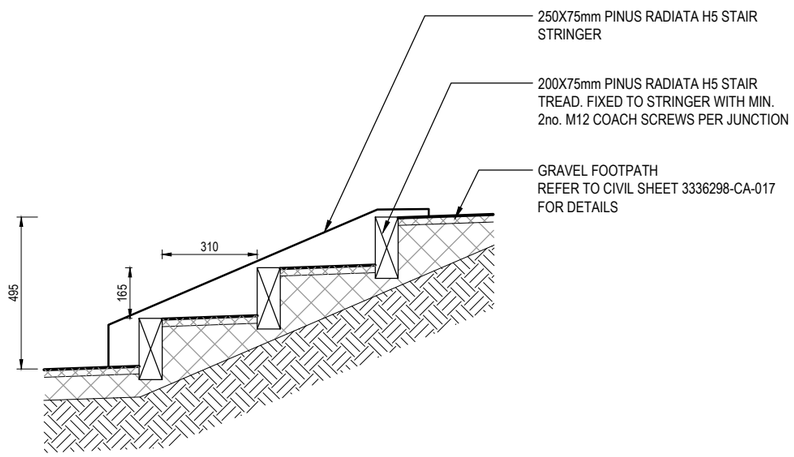
1. REFER TO 3336298-AL-020



01 - DETAIL PLAN STAIR (TS2)
1:10 @ A1 1:20 @ A3



03 - DETAIL SECTION (TS2)
1:5 @ A1 1:10 @ A3



02 - DETAIL SECTION STAIR (TS2)
1:10 @ A1 1:20 @ A3

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	JB	20.09.20	Approved For Construction*
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: STAIRS SHEET 3 OF 3

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-022

Rev.: C

DO NOT SCALE

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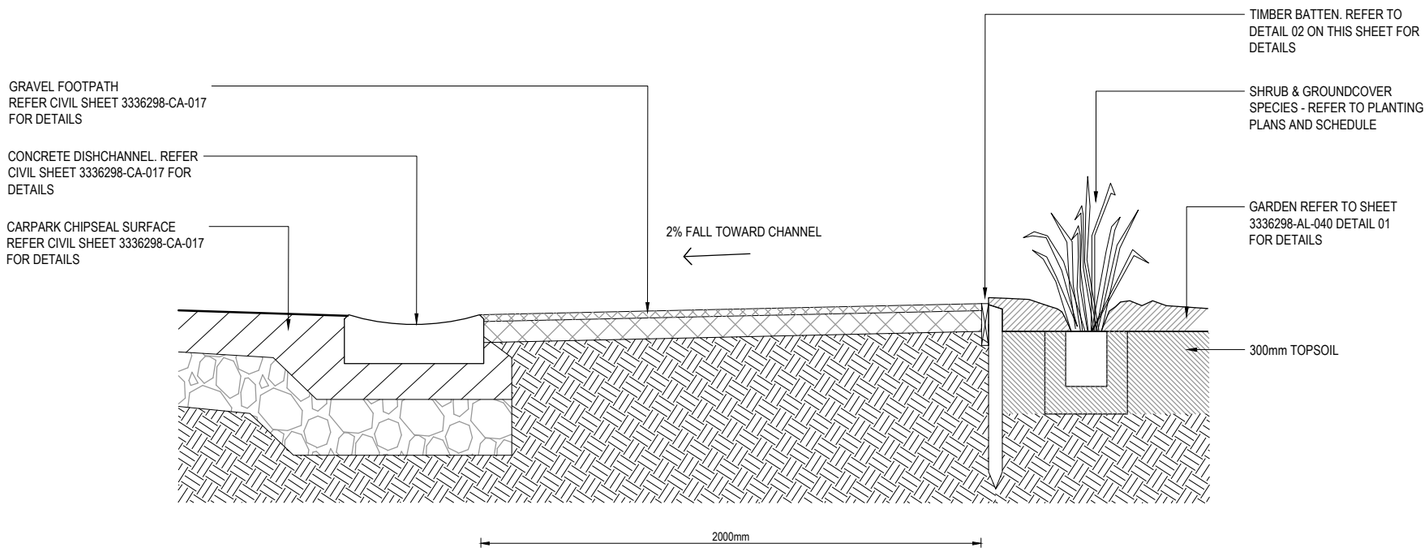
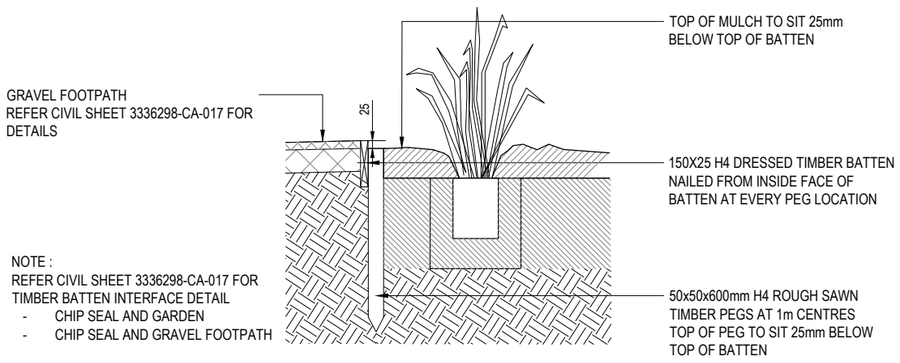
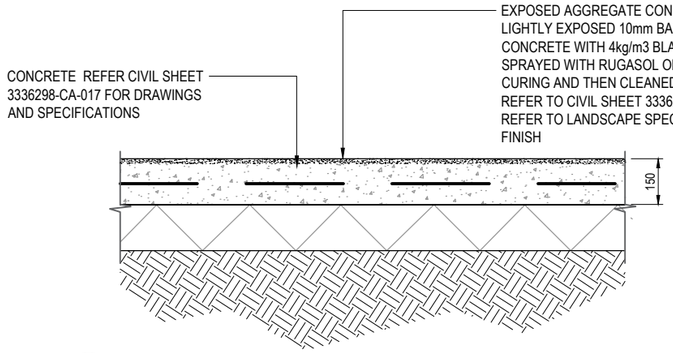


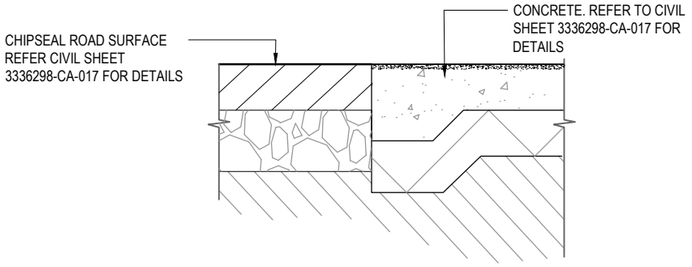
01 - DETAIL SECTION: GRAVEL FOOTPATH
1:10 @ A1 1:20 @ A3



02 - DETAIL SECTION TYPICAL TIMBER EDGING GRAVEL FOOTPATH TO GARDEN BED
1:10 @ A1 1:20 @ A3



03 - DETAIL SECTION: CONCRETE FOOTPATH
1:10 @ A1 1:20 @ A3



04 - DETAIL SECTION: CHIPSEAL TO CONCRETE
1:10 @ A1 1:20 @ A3

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	JB	20.09.20	Approved For Construction*
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: DETAILS TYPICAL HARD SURFACES SHEET 1 OF 1

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-030

Rev.: C

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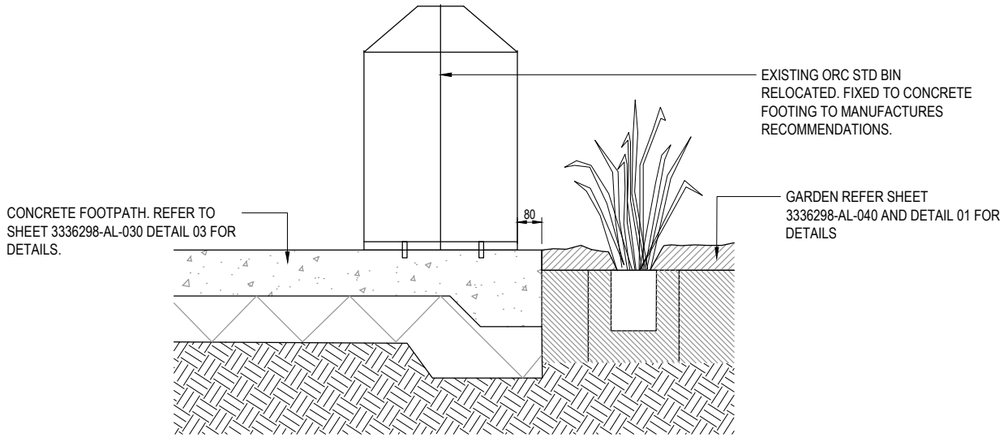
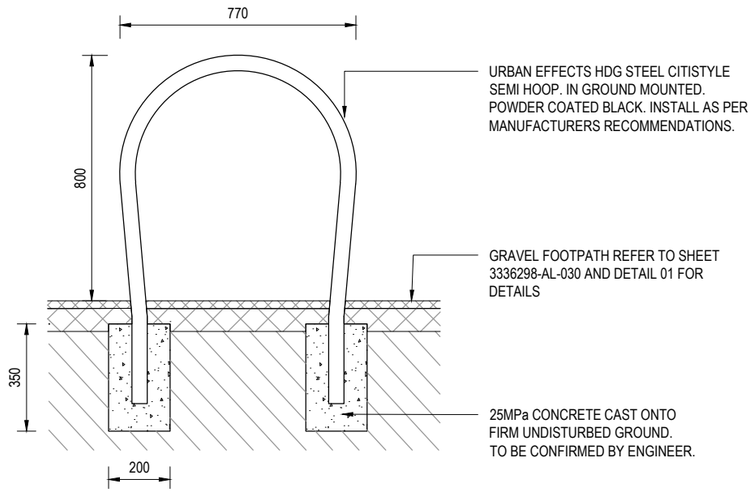


01 TYP DCC STD BIN - TYPICAL DETAIL
1:10 @ A1 1:20 @ A3

BIN
NOTES:
1. EXISTING BINS TO BE REMOVED AND RELOCATED. REFER 3336298-AL-01B FOR LAYOUT
2. BINS TO BE FIXED TO CONCRETE FOOT PATH WITH SS 316 FITTINGS. TO MANUFACTURES RECOMMENDATIONS
3. FINAL LOCATION TO BE APPROVED BY ENGINEER PRIOR TO FIXING IN PLACE
4. ENSURE BIN STANDS VERTICAL AND LEVEL AFTER FABRICATION AND WHEN INSTALLED.



03 TYP DETAIL SECTION: CITISTYLE CYCLE HOOP
1:10 @ A1 1:20 @ A3

CYCLE RACK
NOTES:
1. ALL COMPONENTS TO BE HDG STEEL
2. TO BE POWDER COATED BLACK. QUALITY OF FINISH TO BE APPROVED BY ENGINEER
3. ENSURE BIKE STAND IS VERTICAL AND LEVEL AFTER FABRICATION AND WHEN INSTALLED.
4. FOR SETOUT REFER TO SHEET 3336298-AL-013. SET OUT TO BE APPROVED BY ENGINEER

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	JB	20.09.20	Approved For Construction*
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	Date

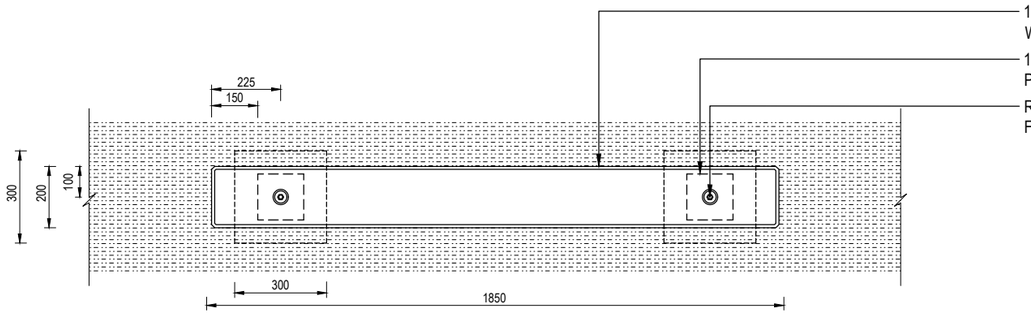
* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL kaunihera a-rohe o Ōtepoti

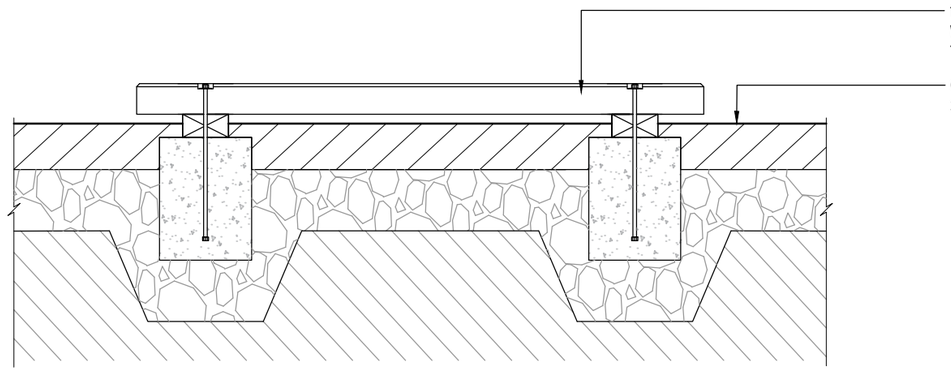
Project: TUNNEL BEACH CAR PARK

Title: DETAILS STREET FURNITURE SHEET 1 OF 3

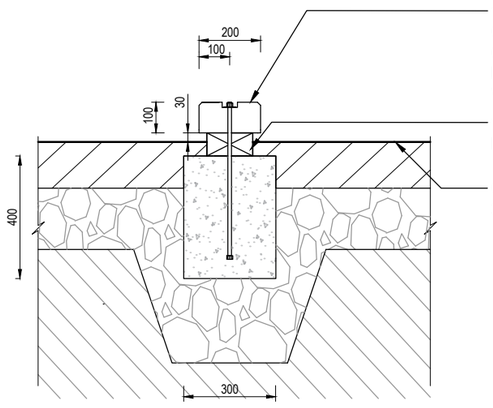
Discipline: LANDSCAPE
Drawing No.: 3336298-AL-031
Rev.: C



01 TYP DETAIL PLAN: TIMBER WHEELSTOP
1:10 @ A1 1:20 @ A3



02 TYP DETAIL SECTION: TIMBER WHEELSTOP
1:10 @ A1 1:20 @ A3



03 TYP DETAIL SECTION: TIMBER WHEELSTOP
1:10 @ A1 1:20 @ A3

GENERAL
NOTES:
1. TIMBER WHEELSTOP TO BE INSTALLED TO AS/NZS 2890.1:2004. REFER TO SHEET 3336298-AL-011 & 012 FOR LOCATIONS
2. LAYOUT:
   620mm FROM FRONT OF CARPARK BAY AS STANDARD.
   820mm FROM FRONT OF CARPARK BAY WHERE LOCATED ADJACENT TO FACE OF RETAINING WALL.
3. ALL TIMBER TO BE PINUS RADIATA H5 TREATED TIMBER UNLESS STATED OTHERWISE
4. 10mm CHAMBER TO TOP AND VERTICAL EDGES.
5. ALL FIXINGS TO BE 316 STAINLESS STEEL.
6. CONCRETE FOOTING AND BASE COURSE TO BE APPROVED BY ENGINEER.

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	JB	20.09.20	Approved For Construction*
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

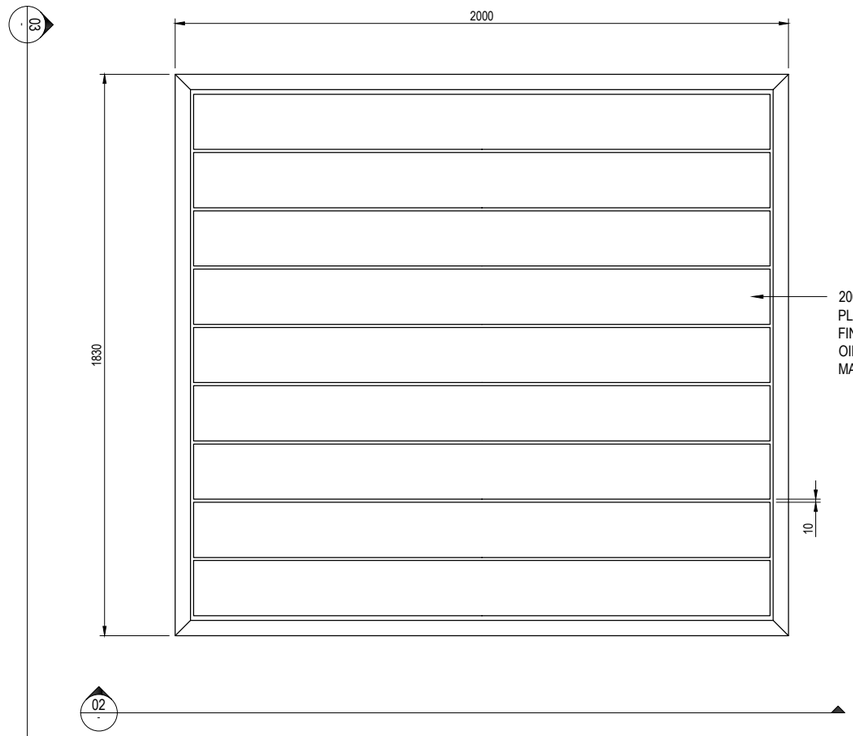
Title: DETAILS STREET FURNITURE SHEET 2 OF 3

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-032

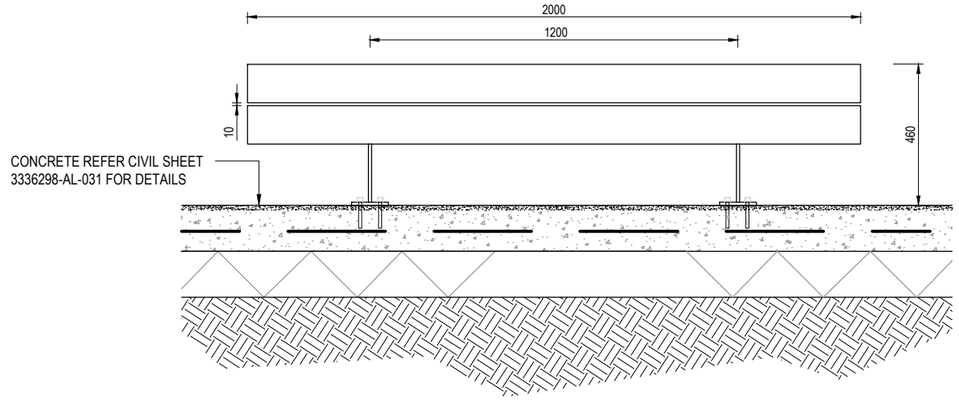
Rev.: C

Document No. 3336298-AL-032.DWG



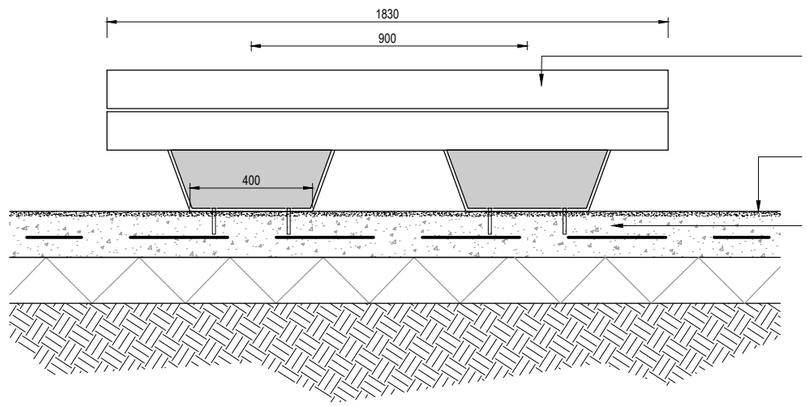
2000X1830mm AE TILLEY GROUP Ltd. - SF2210 PLAZA PLATFORM SEAT. SURFACE MOUNTED. HDG STEEL FINISH. TIMBER TO HAVE RESENSE WOODSMAN WOOD OIL STAIN - NATURAL COLOUR. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS.

01 DETAIL PLAN: BENCH SEAT (TBS1)
1:10 @ A1 1:20 @ A3



02 ELEVATION FRONT: BENCH SEAT (TBS1)
1:10 @ A1 1:20 @ A3

NOTES:
1. 2000X1830mm AE TILLEY GROUP Ltd. - SF2210 PLAZA PLATFORM SEAT
2. STEEL LEGS AND FIXINGS TO BE 316 STAINLESS STEEL
3. TIMBER FIXINGS TO BE 316 STAINLESS STEEL
4. 'GRAFFITI GUARD' PRODUCT TO BE APPLIED AS PER SPECIFICATIONS
5. ALL HARDWOOD TIMBER COMPONENTS TO BE TREATED WITH RESENE WOODSMAN WOOD OIL STAIN - NATURAL COLOUR
6. ENSURE SEAT IS SET OUT IN LINE WITH CONCRETE AND CONCRETE SAW CUTS AND IS LEVEL. SET OUT TO BE APPROVED BY ENGINEER
7. ENGINEER TO APPROVE SEAT PRIOR TO INSTALLATION



2000X1830mm AE TILLEY GROUP Ltd. - SF2210 PLAZA PLATFORM SEAT. SURFACE MOUNTED. HDG STEEL FINISH. TIMBER TO HAVE RESENSE WOODSMAN WOOD OIL STAIN - NATURAL COLOUR. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS.

CONCRETE REFER CIVIL SHEET 3336298-AL-031 FOR DETAILS

M10 ANCHOR BOLTS WITH MIN 75mm EMBEDMENT. FIXING TO BE TO MANUFACTURERS RECOMMENDATIONS

03 ELEVATION SIDE: BENCH SEAT (TBS1)
1:10 @ A1 1:20 @ A3

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:250	Design	JB	20.09.20
	Drawn	BT	20.09.20
Reduced Scale (A3) 1:500	Dsg Verifier	JC	28.09.20
	Dwg Check	JB	29.09.20

Approved For Construction* Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: DETAILS STREET FURNITURE SHEET 3 OF 3

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-033

Rev.: C

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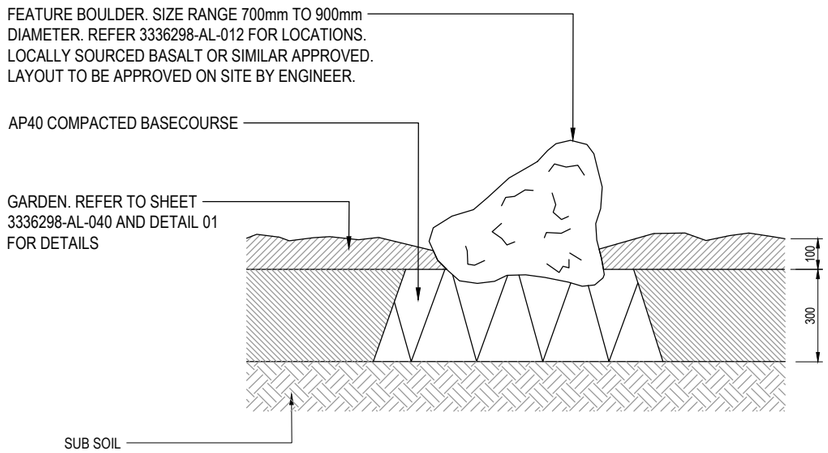

01 / - DETAIL: FEATURE BOULDER
1:10 @A1 1:20 @ A3

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	JB	20.09.20	Approved For Construction*
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	Date

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: DETAILS MISCELLANEOUS SHEET 1 OF 1

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-034

Rev.: C

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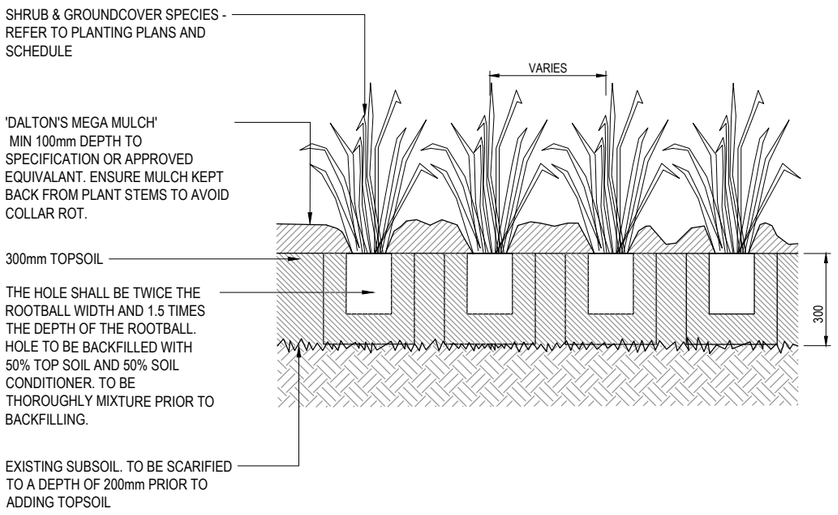
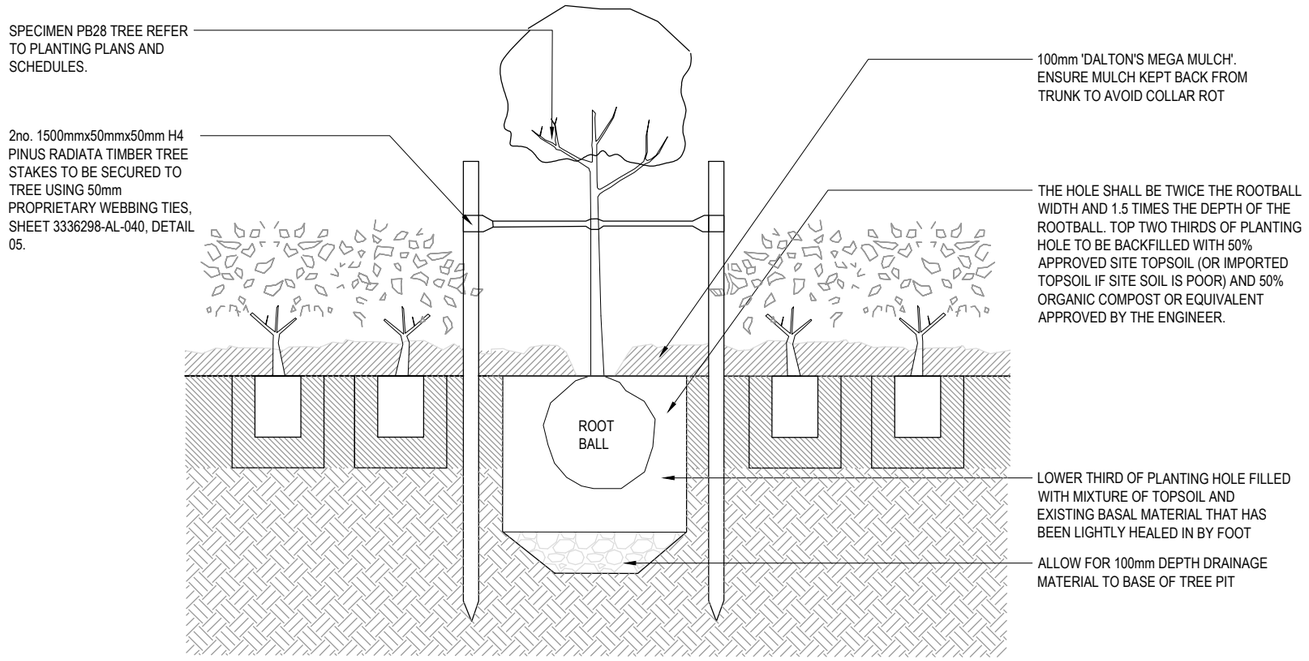
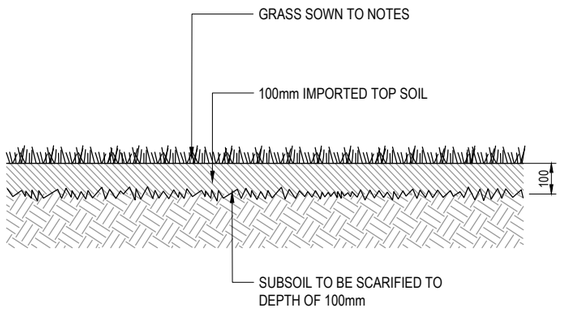


01 TYP — DETAIL SECTION: SHRUB / GROUNDCOVER PLANTING
1:10 @ A1 1:20 @ A3



03 TYP — DETAIL SECTION TREE IN GARDEN
1:10 @ A1 1:20 @ A3



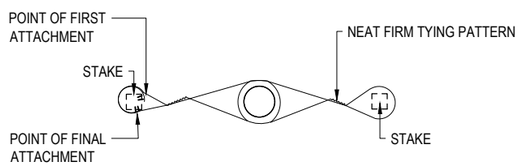
02 TYP — DETAIL: LAWN REINSTATMENT / MAKE GOOD
1:10 @ A1 1:20 @ A3

GRASS NOTES:

1. GRASS SEED MIX TO SHALL BE EITHER AN APPROVED DWARF CULTIVAR RYE GRASS OR AND APPROVED TURF SPECIES BLEND. ALL GRASSING TO BE IN ACCORDANCE WITH NZS 4404:2010, LANDSCAPE DEVELOPMENT AND SUBDIVISION INFRASTRUCTURE, PART 7: LANDSCAPE DESIGN AND PRACTICE.
2. THE METHOD OF SOWING SHALL ACHIEVE A UNIFORM DISTRIBUTION OF SEED AT THE FOLLOWING RATES, UNLESS OTHERWISE SPECIFIED: 300KG PER HECTARE (30 GRAMS PER SQUARE METRE) FOR BERM AND HIGH PROFILE AMENITY AREAS; 250KG PER HECTARE (25 GRAMS PER SQUARE METRE) FOR PLAYING FIELD AREAS, SWALES AND OTHER AMENITY AREAS; 50KG PER HECTARE FOR PASTURE.
3. THE SEED SHALL BE APPLIED AND CULTIVATED TO 20mm DEPTH SO THAT THE MINIMUM OF SEED IS EXPOSED. THE SEEDED GROUND SHALL BE LEVELLED AND LIGHTLY CONSOLIDATED TO ENSURE GOOD SOIL/SEED CONTACT. SLOW RELEASE FERTILISER SHALL BE APPLIED AS SPECIFIED BEFORE OR DURING SOWING AT THE MANUFACTURER'S SPECIFIED APPLICATION RATES. FERTILISER SHALL NOT BE APPLIED IN WATERWAY AREAS. A LOW-PRESSURE SYSTEM SHALL BE USED TO AVOID SURFACE DRILLING OR EROSION.

4. SEED MIX;
   - 70% SPORTS (DWARF) RYEGRASS (A MIXTURE OF UP TO 3 CULTIVARS MAY BE USED)
   - 25% CHEWINGS TYPE RED FESCUE
   - 5% BROWN TOP
   OR SIMILAR APPROVED

5. HYDROSEED APPLICATION TO BE APPLIED TO SUPPLIERS RECOMMENDATIONS. APPLICATION TO BE APPROVED BY THE ENGINEER.
6. FENCE OFF AND PROTECT DURING ESTABLISHMENT.



04 TYP — DETAIL PLAN: TREE STAKING TIES
1:10 @ A1 1:20 @ A3

TREE PLANTING NOTES:

1. TOPSOIL TO BE PLACED IN LIGHTLY COMPACTED LAYERS OF NO MORE THAN 250mm DEPTH.
2. SPREAD MULCH EVENLY AWAY FROM PLANT STEMS AND ROOTS. SAMPLES OF MULCH TO BE APPROVED BY THE ENGINEER.
3. TOPSOIL TO BE APPROVED BY THE ENGINEER.
4. ALL PLANTING SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE SPECIFICATION.
5. PB28 TREES
   - TWO 1800x50x50 mm H4 PINUS RADIATA TREE STAKES. TO BE DRIVEN 500mm INTO FIRM UNMODIFIED SOIL AND CUT TO CONSISTENT HEIGHTS
6. PB18 TREES
   - ONE 1200x25mm DIAMETER BAMBOO STAKE. TO BE DRIVEN 300mm INTO FIRM UNMODIFIED SOIL AND CUT TO CONSISTENT HEIGHTS.
   - ALL STAKES SHALL BE VERTICAL AND PERPENDICULAR TO THE PLANTER EDGE. ALL TREES SHALL BE STAKED IDENTICALLY TO ENSURE CONSISTENCY ACROSS THE SITE BOUNDARY.
7. ALL STAKES TO BE INSTALLED TO ALIGN WITH PREVAILING WIND

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT AND CLIENT REVIEW	BT	JB	JT	19.02.21
B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
A	FOR RESOURCE CONSENT	BT	JB	JT	30.10.20

Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

			Approved For Construction* Date
Design	JB	20.09.20	
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: DETAILS TYPICAL PLANTING SHEET 1 OF 1

Discipline: LANDSCAPE

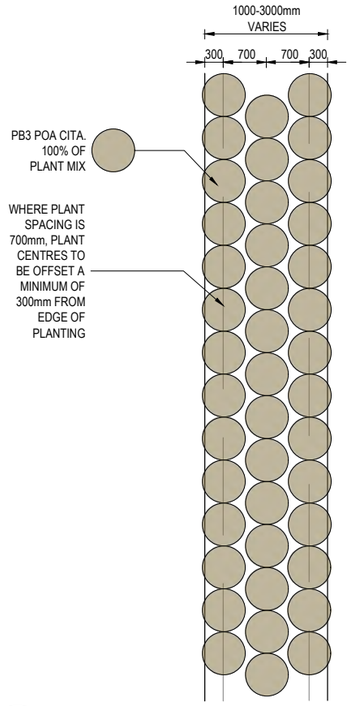
Drawing No.: 3336298-AL-040

Rev.: C

DO NOT SCALE

IF IN DOUBT ASK.

Drawing Plotted: 19 Feb 2021 2:31 pm



01 TYP — TYPICAL PLAN - AM1 - AMENITY MIX 1
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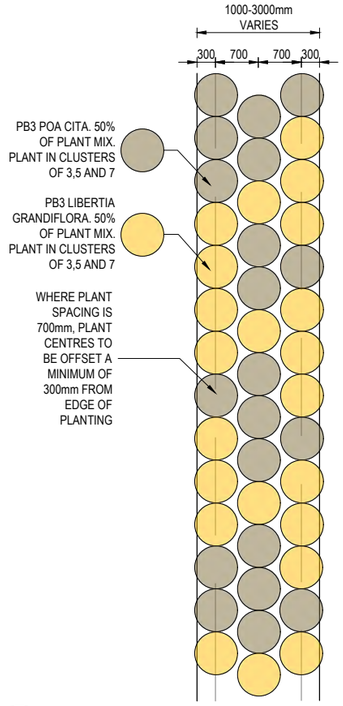

02 TYP — TYPICAL PLAN - AM2 - AMENITY MIX 2
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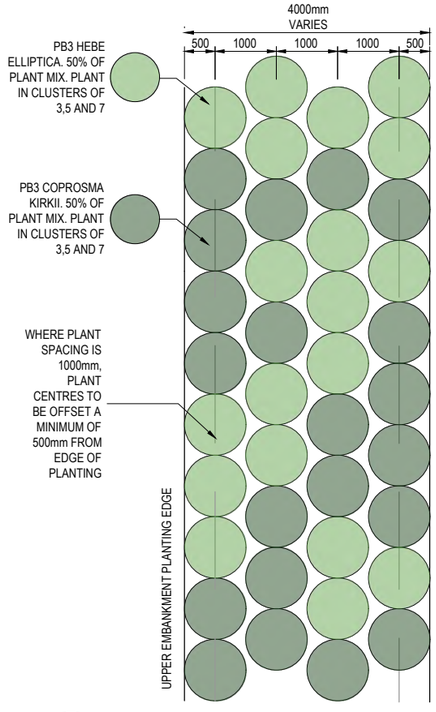

03 TYP — TYPICAL PLAN - AM3 - AMENITY MIX 3
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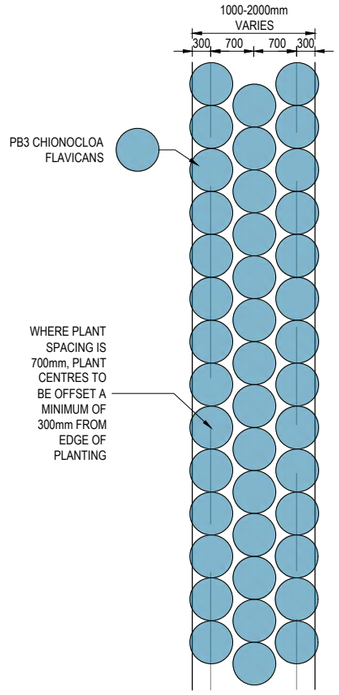

04 TYP — TYPICAL PLAN - AM4 - AMENITY MIX 4
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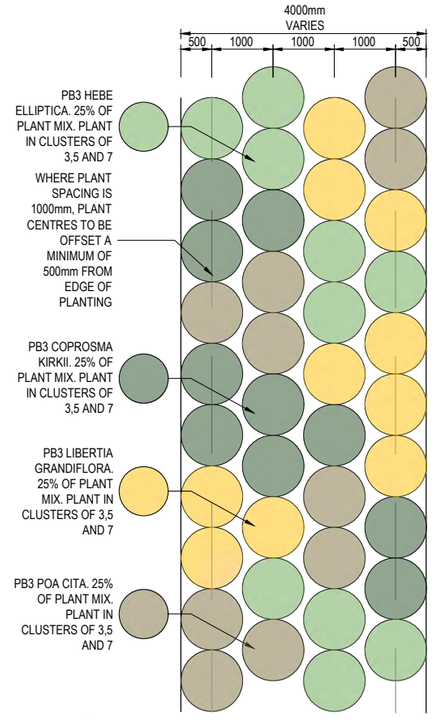

05 TYP — TYPICAL PLAN - AM5 - AMENITY MIX 5
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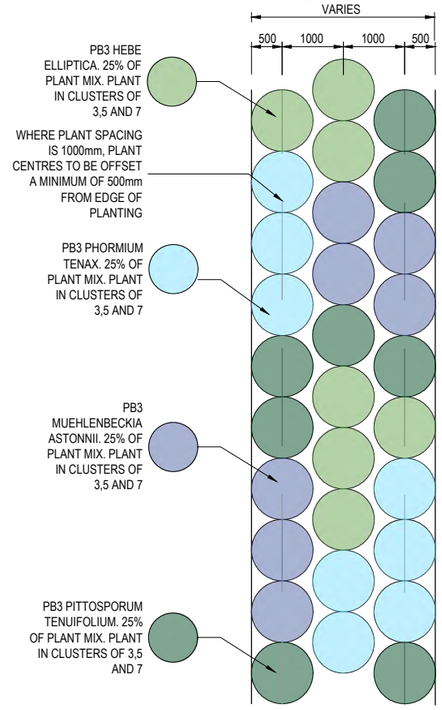

06 TYP — TYPICAL PLAN - SC1 - SCREENING MIX 1
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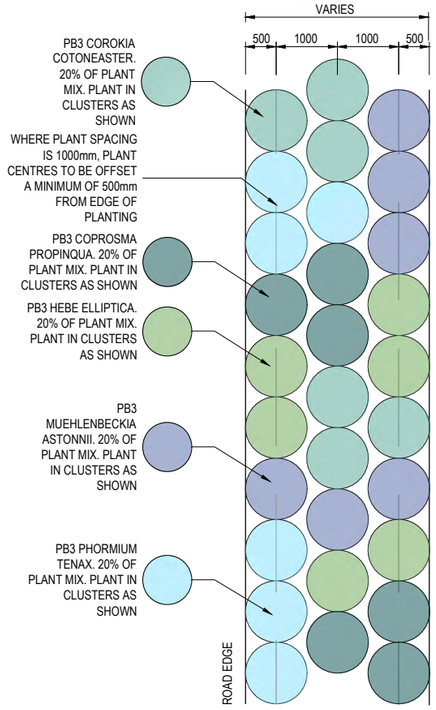
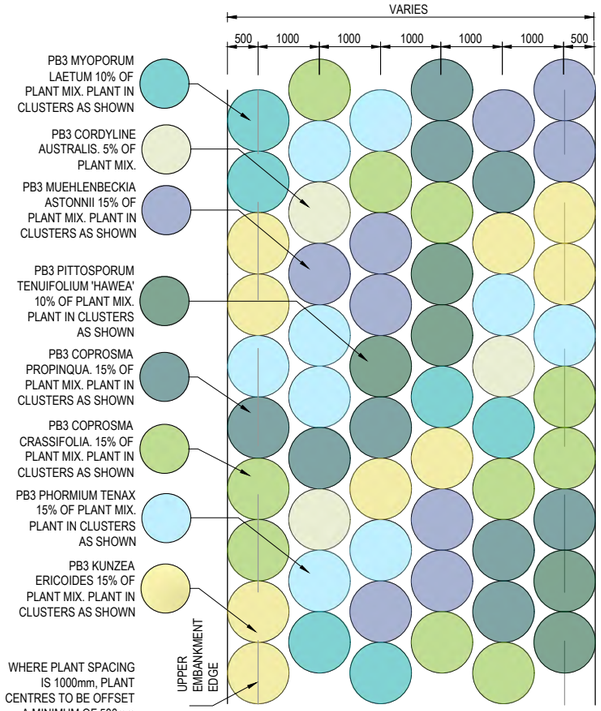


07 TYP — TYPICAL PLAN - SC2 - SCREENING MIX 2
1:50 @ A1 1:100 @ A3



08 TYP — TYPICAL PLAN - RV1 - REVEGETATION MIX 1
1:50 @ A1 1:100 @ A3

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RESOURCE CONSENT
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No.	Revision	By	Chk	Appd	Date
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Design	JB	20.09.20	Approved For Construction*
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Client: DUNEDIN CITY COUNCIL | kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: PLANTING SETOUT SHEET 1 OF 1

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-041

Rev.: C

Document No. 3336298-AL-041.DWG

DO NOT SCALE

IF IN DOUBT ASK.

PLANT SCHEDULE

AM1 (Amenity Mix 1)

Botanical Name	Common Name	Area (m2)	Grade	Density (x/m2)	Spacing	% Mix	Total plants	AM1.1	AM1.2	AM1.3	AM1.4	AM1.5	AM1.6	AM1.7	AM1.8	AM1.9	AM1.10	AM1.11
Poa cita	Silver tussock	230	PB3	2.04	0.7	100%	**469**	88	180	10	10	10	10	59	43	20	10	29

AM2 (Amenity Mix 2)

Botanical Name	Common Name	Area (m2)	Grade	Density (x/m2)	Spacing	% Mix	Total plants	AM2.1	AM2.2	AM2.3	AM2.4	AM2.5	AM2.6	AM2.7	AM2.8	AM2.9
Libertia grandiflora	Libertia	190	PB3	2.04	0.7	50%	**194**	18	11	15	19	6	23	14	56	30
Poa cita	Silver tussock		PB3	2.04	0.7	50%	**194**	18	11	15	19	6	23	14	56	30

AM3 (Amenity Mix 3)

Botanical Name	Common Name	Area (m2)	Grade	Density (x/m2)	Spacing	% Mix	Total plants	AM3.1	AM3.2	AM3.3	AM3.4	AM3.5	AM3.6
Coprosma kirkii	Groundcover coprosma	78	PB3	1	1	50%	**39**	12	3	12	8	5	20
Hebe elliptica	Hebe		PB3	1	1	50%	**39**	12	3	12	8	5	20

AM4 (Amenity Mix 4)

Botanical Name	Common Name	Area (m2)	Grade	Density (x/m2)	Spacing	% Mix	Total plants	AM4.1
Chionochloa flavicans	Miniature toe toe	197	PB3	2.04	0.7	100%	**402**	402

AM5 (Amenity Mix 5)

Botanical Name	Common Name	Area (m2)	Grade	Density (x/m2)	Spacing	% Mix	Total plants	AM5.1	AM5.2	AM5.3	AM5.4	AM5.5	AM5.6	AM5.7
Coprosma kirkii	Groundcover coprosma	43	PB3	1	1	25%	**11**	2	3	3	3	3	8	4
Hebe elliptica	Hebe		PB3	1	1	25%	**11**	2	3	3	3	3	8	4
Libertia grandiflora	Libertia		PB3	1	1	25%	**11**	2	3	3	3	3	8	4
Poa cita	Silver tussock		PB3	1	1	25%	**11**	2	3	3	3	3	8	4

SC1 (Screening mix 1)

Botanical Name	Common Name	Area (m2)	Grade	Density (x/m2)	Spacing	% Mix	Total plants	SC1.1	SC1.2	SC1.3	SC1.4	SC1.5	SC1.6
Hebe elliptica	Hebe	211	PB3	1	1	25%	**53**	2	4	4	4	18	22
Muehlenbeckia astonnii	Shrubby tororaro		PB3	1	1	25%	**53**	2	4	4	4	18	22
Phormium tenax	Harakeke		PB3	1	1	25%	**53**	2	4	4	4	18	22
Pittosporum tenuifolium 'Hawea'	NZ Pittosporum		PB3	1	1	25%	**53**	2	4	4	4	18	22

SC2 (Screening mix 2)

Botanical Name	Common Name	Area (m2)	Grade	Density (x/m2)	Spacing	% Mix	Total plants	SC2.1
Coprosma propinqua	Mingimingi	110	PB3	1	1	20%	**22**	22
Corokia cotoneaster	Korokio		PB3	1	1	20%	**22**	22
Muehlenbeckia astonnii	Shrubby tororaro		PB3	1	1	20%	**22**	22
Phormium tenax	Harakeke		PB3	1	1	20%	**22**	22
Hebe elliptica	Hebe		PB3	1	1	20%	**22**	22

RV1 (Revegetation mix 1)

Botanical Name	Common Name	Area (m2)	Grade	Density (x/m2)	Spacing	% Mix	Total plants	RV1.1	RV1.2
Coprosma crassifolia	Mingimingi	548	PB2	1	1	15%	**82**	38	44
Coprosma propinqua	Mingimingi		PB2	1	1	15%	**82**	38	44
Cordyline australis	Ti Kouta		PB2	1	1	5%	**27**	13	15
Kunzea ericoides	Kanuka		PB2	1	1	15%	**82**	38	44
Muehlenbeckia astonnii	Shrubby tororaro		PB2	1	1	15%	**82**	38	44
Myoporum laetum	Ngaio		PB2	1	1	10%	**55**	26	29
Phormium tenax	Harakeke		PB2	1	1	15%	**82**	38	44
Pittosporum tenuifolium 'Hawea'	NZ Pittosporum		PB2	1	1	10%	**55**	26	29

SL1 (Slope mix 1)

Botanical Name	Common Name	Area (m2)	Grade	Density (x/m2)	Spacing	% Mix	Total plants	SL1.1	SL1.2
Poa cita	Silver tussock	917	PB2	1	1	40%	**367**	84	283
Hierochloe redolens	Karetu		PB2	1	1	20%	**183**	42	142
Chionochloa rubra	Red tussock		PB2	1	1	40%	**367**	84	283

Specimen trees

Botanical Name	Common Name	Area (m2)	Grade	Density (x/m2)	Spacing	% Mix	Total trees
TN1 - Sophora microphylla	South Island Kowhai	n/a	PB28	n/a	n/a	n/a	6
TN2 - Psuedopanax crassifolius	Lancewood	n/a	PB18	n/a	n/a	n/a	31
TN3 - Plagianthus regius	Ribbonwood	n/a	PB28	n/a	n/a	n/a	12
						Total plants overall	**3215**

ORIGINAL DRAWING IN COLOUR

RESOURCE CONSENT NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
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B	FOR RESOURCE CONSENT	BT	JB	JT	06.11.20
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Drawing Originator: Beca

Original Scale (A1) 1:250
Reduced Scale (A3) 1:500

Design	JB	20.09.20	Approved For Construction* Date
Drawn	BT	20.09.20	
Dsg Verifier	JC	28.09.20	
Dwg Check	JB	29.09.20	

* Refer to Revision 1 for Original Signature

Client: DUNEDIN CITY COUNCIL kaunihera a-rohe o Ōtepoti

Project: TUNNEL BEACH CAR PARK

Title: PLANTING SCHEDULE

Discipline: LANDSCAPE

Drawing No.: 3336298-AL-050

Rev.: C

Document No. 3336298-AL-050.DWG

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Department of Conservation
Te Papa Atawhai

501864_L1_00-11[B]_Tunnel Beach Detailed Design

Original A1 size mm 0 10 30 50 100 150 200 300

Notes:

Excavations
1. Prior to pouring concrete, the foundation excavations shall be thoroughly cleaned of all water and loose materials.

Steelwork
1. All steelwork, fabrication, welding and erection shall comply with NZS3404:1997.
2. All Cold formed steel hollow sections (CHS, SHS & RHS) shall comply with AS/NZS 1163:2016 grade C350L0.
3. All hot-rolled bars and sections (UB, UC, PFC, EA, UA & bars, etc) shall comply with AS/NZS3679:2016 grade 300.
4. All steel plate shall comply with AS/NZS 3678:2016 grade 300.
5. Unless noted otherwise in the structural drawings, all lines of contact shall be welded using 5mm structural purpose fillet weld all round.
6. All exposed steel works noted below to be hot dip galvanised Grade HDG600-5D or 5I or TSZ200S for surface-specific corrosivity category C5-M in accordance with AS/NZS 2312 and SNZ TS 3404:2018. And paint with Resene 'Black Russian'.
7. All steelwork to be painted to Resene 4D painting system specification: 1st coat: Armourcote 501 (250µm)
   2nd coat: Uracryl 403 or Imperite IF 503 (50µm)
   3nd coat: Uracryl 403 or Imperite IF 503 (50µm)

Concrete
1. All concrete work and associated reinforcing shall comply with the requirements of NZS3109:1997 'Concrete Construction'.
2. Foundation & ground slab concrete shall be normal grade with a compressive strength of 20MPa.
3. The minimum concretes covers shall be as follows:
   Cover to below ground reinforcing shall be 75mm.
4. Reinforcement steel must comply with the requirements of AS/NZS 4671:2001: Bar designations shown on drawings are to be interpreted as follows -
   Bars prefixed H - Grade 500E MA, deformed

Track
1. Crossfall of 2°
2. Grade dips to be provided along the track at 10m intervals (refer to page 69-70 of 'Track Construction and Maintenance Guidelines - VC 1672'

Vegetation
1. Planting areas shall have a feathered edge of at least 2m wide, to create a seamless transition of the existing vegetation

KEY

- DOC reserve boundary
- Proposed new track layout (1000m)
- Existing track upgrade (300m)
- Culvert location (TBC on site)
- Planting
- VP 4 Viewpoint
- 55 Contour height (meters)

Rev.	Description	Drawn	Date
A	Final	MS	09.06.21
B	Amend culvert + viewpoints	MS	22.09.21

	Name	Date
Designed	M Smink	09.06.21
Drawn	M Smink	09.06.21
Drg. Chk	J. McFarlane	09.06.21
Proj. Mgr	J. McFarlane	09.06.21
Design Review		Date
J. McFarlane		03.06.21
Approved		Date
J. McFarlane		09.06.21

Surveyed: L. Smetana — Survey Date: 14.02.21
Coord System: NZGD 2000 North Taieri
Calibration:-
Origin of Levels: BD4X SS Pin R.L. 142.5
Datum: NZVD2016

Client: Department of Conservation Te Papa Atawbai

Project Title: Tunnel Beach Reserve Track Design
Dunedin

Drawing Title: Topographical Plan

Scales: 1:1000 [A1] 1:2000 [A3]

Project No.	Set No.	Sht No.	Rev.
501864	L1	00	

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Final

20 Troup Drive, PO Box 9339, Tower Junction, Christchurch 8149, Phone: 03 379-4014, info@eliotsinclair.co.nz www.eliotsinclair.co.nz

Plotted: Sep.23, 2021 at 4:36p.m. from G:\Jobs\50\501864\Acad\Landscape\501864_L1[B]Tunnel Beach.dwg by MS

Original A1 size mm 0 10 30 50 100 150 200 300

NOTES:

1. Track width between 1.6m and 2.0m.
2. The carpark shown on the plans is out of scope.
3. Surface course materials shall be AP20 Milners Pit Gravel (Milners Road, Taieri)
4. Surfacing shall have a consistent surface smoothness
5. The contractor shall employ a methodology that allows them to accurately construct the elevation of the tread during placement of the surfacing, with a max. slope of 10°
6. Surface course and existing surface shall be compacted as follows:
   - in 100mm thickness lifts, using an 80-100kg plate compactor, until no visual displacement is observed
   - compaction shall start from the lower edge and progress across to the cut slope. Fully compact the material at the top of the outward sloping formation (against the cut batter)
   - a forward and reverse pass shall be made over the same section of material before moving to the adjacent section
   - each pass of the compactor shall overlap the previous one by a third to ensure complete coverage
6. The contractor shall carefully plan the removal of material from the construction corridor, including where that material will be placed (as remediation of disposed of)
7. Excavation shall be carried out in a manner to produce neat cut faces to the batters shown on the drawings. All excavation shall be done in a manner which ensures the cut surfaces will be adequately drained at all times
8. The contractor shall employ a methodology that allows them to accurately construct the elevation (% slope) of the tread during the excavation works. The track subgrade shall be formed to match, or gently mirror, the proposed surface course finished surface shape
9. Stockpile sites shall be planned an managed to ensure there are zero impacts outside the construction corridor
10. Any areas affected by slips during the works shall be identified, photographed and reported to the Principal without delay. Any resulting hazard to the public shall be promptly and appropriately fenced off
11. Work associated with the remediation of any slip shall be treated as a variation provided the slip did not occur as a direct consequence of the contractor working outside the construction prescription of failure to comply with the specification or the requirements of the contract
12. Where the track construction work results in loose or potentially unstable rock/rocks above the track, these shall be removed by the contractor
13. Where the contractor identifies potential rock/soil instability hazards outside of the track construction corridor, including loose or potentially unstable rock/rocks, these shall immediately be brought to the attention of the Principal
14. Rock/rocks discovered during earthworks excavations shall be retained for use along the track
15. Disposal of spoil material shall be carried out as specified on sheet X of the drawings
16. No fossicking of the sites

SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
VP 1
VP 2
VP 3
VP 4

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Client: Department of Conservation Te Papa Atawbai

Project Title: Tunnel Beach Reserve Track Design
Dunedin

Drawing Title: Concept Plan
Track alignment - overview

Scales: 1:1000 [A1] 1:2000 [A3]

Project No.	Set No.	Sht No.	Rev.
501864	L1	01	B

eliot sinclair

Final

20 Troup Drive, PO Box 9339, Tower Junction, Christchurch 8149, Phone: 03 379-4014, info@eliotsinclair.co.nz www.eliotsinclair.co.nz

Plotted: Sep.23, 2021 at 4:36p.m. from G:\Jobs\50\501864\Acad\Landscape\501864_L1[B]Tunnel Beach.dwg by MS

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Design Review	J. McFarlane	03.06.21
Approved	J. McFarlane	09.06.21

Surveyed: L. Smetana — Survey Date: 14.02.21
Coord System: NZGD 2000 North Taieri
Calibration:-
Origin of Levels: BD4X, SS Pin, R.L. 142.5
Datum: NZVD2016

Client: Department of Conservation Te Papa Atawhai

Project Title: Tunnel Beach Reserve Track Design, Dunedin

Drawing Title: Concept Plan, Track alignment - sheet 2

Scales: 1:200 [A1] 1:400 [A3]

Project No.	Set No.	Sht No.	Rev.
501864	L1	02	B

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Original A1 size mm 0 10 30 50 100 150 200 300

Rock/rocks discovered during earthworks excavations shall be retained for use along the track

HIGHBANK PLANTING MIX (20,8 m²)
(4) Acaena novae-zelandiae
(2) Coprosma propinqua
(7) Hierochloe redolens
(3) Libertia ixioides
(2) Phormium cookianum
(10) Poa astonii
(10) Poa cita

110

Mown amenity area (indicative)

46 PC2 PB3

Viewpoint 1.
Widened track area with handrail.
See sheet 10 for handrail details.

113

Rock/rocks discovered during earthworks excavations shall be retained for use along the track

5 H EL PB5

3 P FE 3 L

3 P FE 3 L

HIGHBANK PLANTING MIX (92,0 m²)
(15) Acaena novae-zelandiae
(5) Coprosma propinqua
(30) Hierochloe redolens
(12) Libertia ixioides
(5) Phormium cookianum
(42) Poa astonii
(42) Poa cita

3 H EL PB5

115

3 H EL PB5

3 H AN 3 L

HIGHBANK PLANTING MIX (107 m²)
(18) Acaena novae-zelandiae
(6) Coprosma propinqua
(35) Hierochloe redolens
(14) Libertia ixioides
(6) Phormium cookianum
(49) Poa astonii
(49) Poa cita

Revegetation planting to cover up existing path

1 P RE 3 L

2 C AU 3 L

105

M RA 3 3 L

P RE 1 3 L

C AU 3 3 L

3 H AN 3 L

2 M LA 3 L

H AN 2 3 L

P RE 3 3 L

3 C AU 3 L

3 M LA 3 L

HIGHBANK PLANTING MIX (289 m²)
(47) Acaena novae-zelandiae
(15) Coprosma propinqua
(94) Hierochloe redolens
(36) Libertia ixioides
(15) Phormium cookianum
(129) Poa astonii
(129) Poa cita

HIGHBANK PLANTING MIX (43,7 m²)
(8) Acaena novae-zelandiae
(3) Coprosma propinqua
(15) Hierochloe redolens
(6) Libertia ixioides
(3) Phormium cookianum
(20) Poa astonii
(20) Poa cita

101

H AN 2 3 L

3 M RA 3 L

H EL 5 PB5

HIGHBANK PLANTING MIX (73,5 m²)
(12) Acaena novae-zelandiae
(4) Coprosma propinqua
(24) Hierochloe redolens
(10) Libertia ixioides
(4) Phormium cookianum
(33) Poa astonii
(33) Poa cita

100

95

6 H EL PB5

HIGHBANK PLANTING MIX (49,8 m²)
(9) Acaena novae-zelandiae
(3) Coprosma propinqua
(17) Hierochloe redolens
(7) Libertia ixioides
(3) Phormium cookianum
(23) Poa astonii
(23) Poa cita

90

Rock/rocks discovered during earthworks excavations shall be retained for use along the track

Final

Notes:

Excavations
1. Prior to pouring concrete, the foundation excavations shall be thoroughly cleaned of all water and loose materials.

Steelwork
1. All steelwork, fabrication, welding and erection shall comply with NZS3404:1997.
2. All Cold formed steel hollow sections (CHS, SHS & RHS) shall comply with AS/NZS 1163:2016 grade C350L0.
3. All hot-rolled bars and sections (UB, UC, PFC, EA, UA & bars, etc) shall comply with AS/NZS3679:2016 grade 300.
4. All steel plate shall comply with AS/NZS 3678:2016 grade 300.
5. Unless noted otherwise in the structural drawings, all lines of contact shall be welded using 5mm structural purpose fillet weld all round.
6. All exposed steel works noted below to be hot dip galvanised Grade HDG600-5D or 5I or TSZ200S for surface-specific corrosivity category C5-M in accordance with AS/NZS 2312 and SNZ TS 3404:2018. And paint with Resene 'Black Russian'.
7. All steelwork to be painted to Resene 4D painting system specification: 1st coat: Armourcote 501 (250µm)
   2nd coat: Uracryl 403 or Imperite IF 503 (50µm)
   3nd coat: Uracryl 403 or Imperite IF 503 (50µm)

Concrete
1. All concrete work and associated reinforcing shall comply with the requirements of NZS3109:1997 'Concrete Construction'.
2. Foundation & ground slab concrete shall be normal grade with a compressive strength of 20MPa.
3. The minimum concretes covers shall be as follows:
   Cover to below ground reinforcing shall be 75mm.
4. Reinforcement steel must comply with the requirements of AS/NZS 4671:2001: Bar designations shown on drawings are to be interpreted as follows -
   Bars prefixed H - Grade 500E MA, deformed

Track
1. Crossfall of 2°
2. Grade dips to be provided along the track at 10m intervals (refer to page 69-70 of 'Track Construction and Maintenance Guidelines - VC 1672'

Vegetation
1. Planting areas shall have a feathered edge of at least 2m wide, to create a seamless transition of the existing vegetation

KEY

- DOC reserve boundary
- Proposed new track layout (1000m)
- Existing track upgrade (300m)
- Culvert location (TBC on site)
- Planting
- VP 4 Viewpoint
- 55 Contour height (meters)

Rev.	Description	Drawn	Date
A	Final	MS	09.06.21
B	Amend culvert + viewpoints	MS	22.09.21

	Name	Date
Designed	M Smink	09.06.21
Drawn	M Smink	09.06.21
Drg. Chk	J. McFarlane	09.06.21
Proj. Mgr	J. McFarlane	09.06.21
Design Review		Date
	J. McFarlane	03.06.21
Approved		Date
	J. McFarlane	09.06.21

Surveyed: L. Smetana — Survey Date: 14.02.21
Coord System: NZGD 2000 North Taieri
Calibration:-
Origin of Levels: BD4X, SS Pin, R.L. 142.5
Datum: NZVD2016

Client: Department of Conservation Te Papa Atawhai

Project Title: Tunnel Beach Reserve Track Design, Dunedin

Drawing Title: Concept Plan
Track alignment - sheet 3

Scales: 1:200 [A1] 1:400 [A3]

Project No.	Set No.	Sht No.	Rev.
501864	L1	03	B

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Original A1 size mm 0 10 30 50 100 150 200 300

Notes:

Excavations
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KEY

- DOC reserve boundary
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- Culvert location (TBC on site)
- Planting
- VP 4 Viewpoint
- 55 Contour height (meters)

Rev.	Description	Drawn	Date
A	Final	MS	09.06.21
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Proj. Mgr	J. McFarlane	09.06.21
Design Review	J. McFarlane	03.06.21
Approved	J. McFarlane	09.06.21

Surveyed: L. Smetana — Survey Date: 14.02.21
Coord System: NZGD 2000 North Taieri
Calibration:-
Origin of Levels: BD4X SS Pin R.L. 142.5
Datum: NZVD2016

Client: Department of Conservation Te Papa Atawhai

Project Title: Tunnel Beach Reserve Track Design
Dunedin

Drawing Title: Concept Plan
Track alignment - sheet 4

Scales: 1:200 [A1] 1:400 [A3]

Project No.	Set No.	Sht No.	Rev.
501864	L1	04	B

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Original A1 size mm 0 10 30 50 100 150 200 300

Rock/rocks discovered during earthworks excavations shall be retained for use along the track

75

60|PC2
PB3

Viewpoint 2.
Widened track area with handrail.
See sheet 10 for handrail details.

Viewpoint 2B.
Possible viewing area

Final

Notes:

Excavations
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Coord System: NZGD 2000 North Taieri
Calibration:-
Origin of Levels: BD4X SS Pin R.L. 142.5
Datum: NZVD2016

Client: Department of Conservation Te Papa Atawhai

Project Title: Tunnel Beach Reserve Track Design
Dunedin

Drawing Title: Concept Plan
Track alignment - sheet 5

Scales: 1:200 [A1] 1:400 [A3]

Project No.	Set No.	Sht No.	Rev.
501864	L1	05	B

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Surveyed: L. Smetana — Survey Date: 14.02.21

Coord System: NZGD 2000 North Taieri

Calibration:-

Origin of Levels: BD4X SS Pin R.L. 142.5

Datum: NZVD2016

Client: Department of Conservation Te Papa Atawhai

Project Title: Tunnel Beach Reserve Track Design
Dunedin

Drawing Title: Concept Plan
Track alignment - sheet 6

Scales: 1:200 [A1] 1:400 [A3]

Project No.	Set No.	Sht No.	Rev.
501864	L1	06	B

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