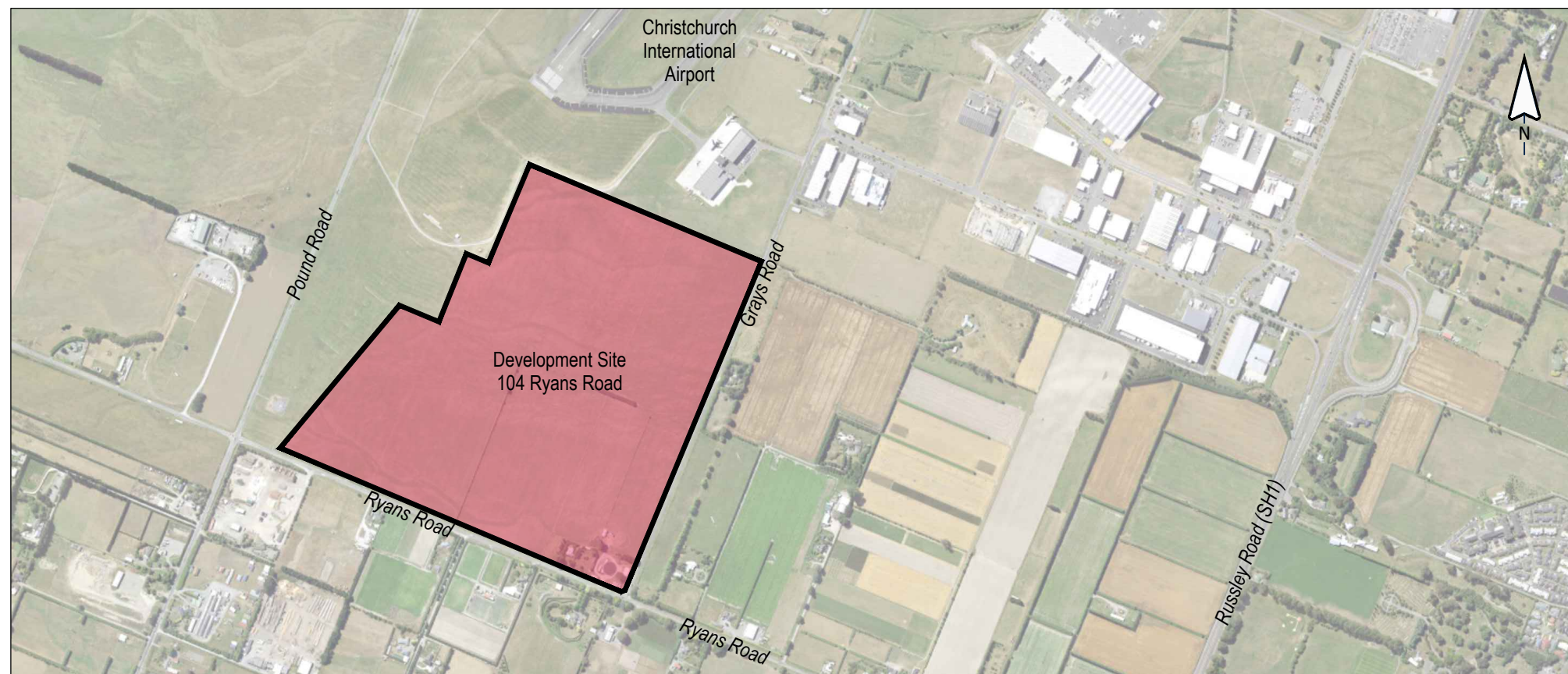


CARTER GROUP LIMITED

104 RYANS ROAD HAREWOOD



CARTER
GROUP




DATE 12/08/2025
CIVIL APPROVAL PLAN SET
JOB No: 1252

Check all dimensions and levels on site before commencing construction.
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Drawing Number	Drawing Title	Scale (A3)	Amendments	<div>This drawing remains the property of Capture Land Limited and may not be reproduced or amended without written permission. No liability shall be accepted for unauthorised use of this drawing.</div>
RC-PG100	Topographical Plan	1:4000	A	
RC-PG110	Proposed Subdivision of Part 3 & Lot 4 DP 22679 & Part Lot 1 DP 287	1:4000	B	
RC-PG115	Proposed Staging Plan	1:4000	B	
RC-PG120	CIAL Runway Approach Protection Surfaces	1:4000	D	
RC-PG121	CIAL Runway Take-off Protection Surfaces	1:4000	D	
RC-PG122	Airways Restriction Plan	1:4000	D	
RC-PG123	Airways Restriction Plan (NZ DVOR Designation Site & Siting Criteria Table)	Not to Scale	B	
RC-PG124	Lighting Control Area	1:4000	B	
RC-PG125	Garden City Helicopters Protection Surfaces	1:4000	C	
RC-PG126	Windshear & Turbulence Assessment Area	1:4000	D	
RC-PG130	CIAL Runway 02 Approach Height Restriction Plan	1:4000	A	
RC-PG131	CIAL Runway 02 Take-off Height Restriction Plan	1:4000	A	
RC-PG132	Airways Height Restriction Plan	1:4000	A	
RC-PG135	Garden City Helicopters Height Restriction Plan	1:4000	A	
RC-PG136	Windshear & Turbulence Height Restriction Plan	1:4000	B	
RC-EW200	Existing & Proposed Contours - Overall	1:4000	B	
RC-EW201	Existing & Proposed Contours (Sheet 1 of 2)	1:1500	B	
RC-EW202	Exitsing & Proposed Contours (Sheet 2 of 2)	1:1500	B	
RC-EW205	Erosion & Sediment Control Plan - Overall	1:4000	B	
RC-EW206	Erosion & Sediment Control Plan (Sheet 1 of 2)	1:1500	C	
RC-EW207	Erosion & Sediment Control Plan (Sheet 2 of 2)	1:1500	B	
RC-EW210	Erosion & Sediment Control Details	As Shown	A	
RC-EW220	Proposed Cut & Fill Elevations	1:4000	B	
RC-RD300	Road Layout Plan - Overall	1:4000	C	
RC-RD301	Road Layout Plan (Sheet 1 of 7)	1:1000	D	
RC-RD302	Road Layout Plan (Sheet 2 of 7)	1:1000	B	
RC-RD303	Road Layout Plan (Sheet 3 of 7)	1:1000	B	
RC-RD304	Road Layout Plan (Sheet 4 of 7)	1:1000	D	
RC-RD305	Road Layout Plan (Sheet 5 of 7)	1:1000	A	
RC-RD306	Road Layout Plan (Sheet 6 of 7)	1:1000	A	
RC-RD307	Road Layout Plan (Sheet 7 of 7)	1:1000	A	
RC-RD310	Ryans Road & Grays Road Intersection	1:250	D	
RC-RD311	Typical Ryans Road Intersection	1:250	C	
RC-RD312	Typical Grays Road Intersection	1:250	B	
RC-RD315	Road 1 Longsection	As Shown	A	
RC-RD316	Road 2 Longsection	As Shown	A	
RC-RD317	Road 3 Longsection	As Shown	A	
RC-RD318	Road 4 Longsection (Sheet 1 of 2)	As Shown	A	
RC-RD319	Road 4 Longsection (Sheet 2 of 2)	As Shown	A	
RC-RD320	Proposed Road Widening Typical Cross Sections	As Shown	E	
RC-RD321	Proposed Roding Typical Cross Sections	As Shown	B	
RC-RD330	Typical Vehicle Crossing	As Shown	B	
RC-SW400	Proposed Stormwater Servicing	1:4000	C	
RC-SW420	Typical Stormwater Basin Details	1:500	B	
RC-WW500	Proposed Wastewater Servicing - Low Pressure Sewer (Sheet 1 of 2)	1:4000	B	
RC-WW501	Proposed Wastewater Servicing - Low Pressure Sewer (Sheet 2 of 2)	As Shown	B	
RC-WS600	Proposed Water Servicing (Sheet 1 of 2)	1:4000	A	
RC-WS601	Proposed Water Servicing (Sheet 2 of 2)	As Shown	A	

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	06/03/25	AMENDMENTS	TL
C	12/08/25	REVISIONS	TL



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CARTER GROUP LIMITED

PROJECT

104 RYANS ROAD, HAREWOOD

DRAWING TITLE

DRAWING SCHEDULE

STATUS

FOR APPROVAL

SCALE

NTS

SIZE

A3

PROJECT

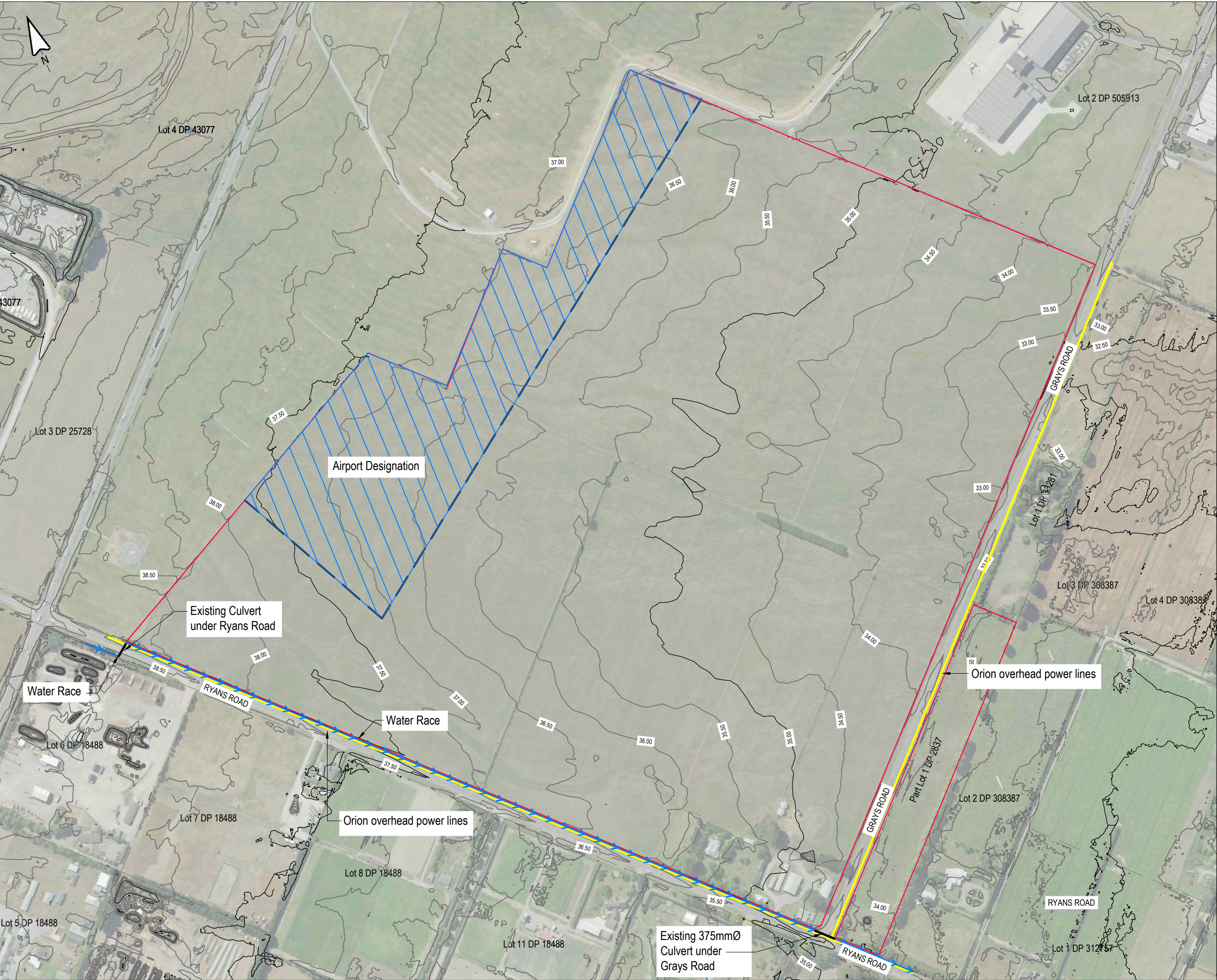
1252

DRAWING NO

RC-PG001

REVISION

C



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Notes:

1. Levels are in terms of NZVD2016.
2. Existing contours are based on topographical survey and lidar data.

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL



CLIENT CARTER GROUP LIMITED			
PROJECT 104 RYANS ROAD, HAREWOOD			
DRAWING TITLE TOPOGRAPHICAL PLAN			
STATUS FOR APPROVAL		SCALE 1:4000	SIZE A3
PROJECT 1252	DRAWING NO RCPG100	REVISION A	



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LEGEND :

AIRPORT DESIGNATION

3.0m WIDE PLANTING STRIP
ALONG RYANS AND GRAYS
ROAD FRONTAGES

NOTES :

- SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.
- LOTS 200-201 ARE TO BE VESTED AS LOCAL PURPOSE UTILITY RESERVES (STORMWATER)
- LOTS 300-301 ARE TO BE VESTED AS ROAD
- LOT 400 IS TO BE VESTED AS LOCAL PURPOSE UTILITY RESERVE (WATER)
- LOT 500 IS A BALANCE LOT.

ROADS TO BE VESTED

LOT 300 AREA = 22,444m²
LOT 301 AREA = 32,338m²
LOT 302 AREA = 18m²

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/25	MINOR REVISIONS	TL

CLIENT

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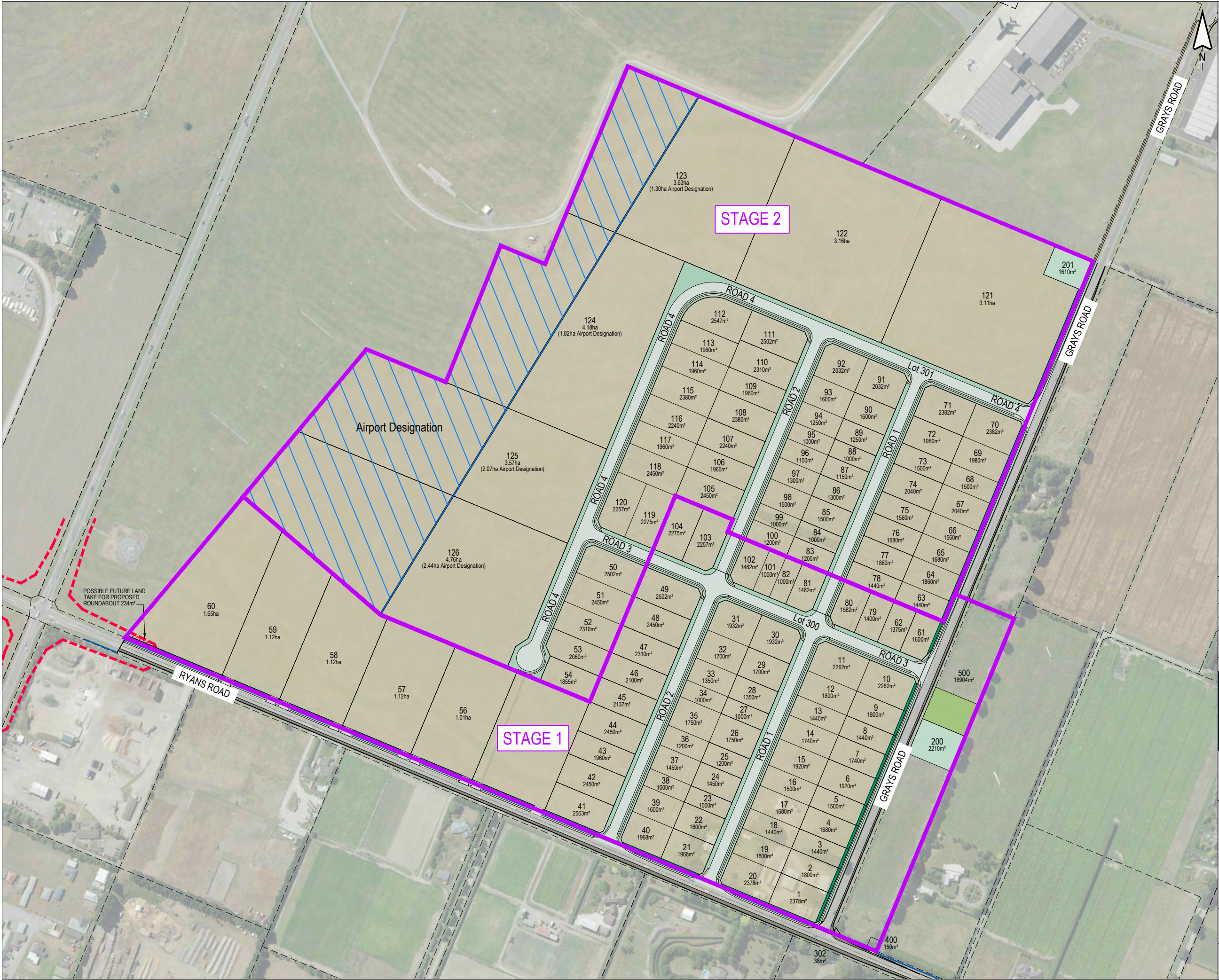
PROJECT

104 RYANS ROAD, HAREWOOD

PROPOSED SUBDIVISION OF
PART LOT 3 & LOT 4 DP 22679 &
PART LOT 1 DP 2837
(COMPRISED IN RT'S CB13A/1098 & CB7A/401)

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-PG110	B



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LEGEND :

STAGE BOUNDARIES

NOTES :

1. SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/25	MINOR REVISIONS	TL

CLIENT

CARTER GROUP LIMITED

PROJECT

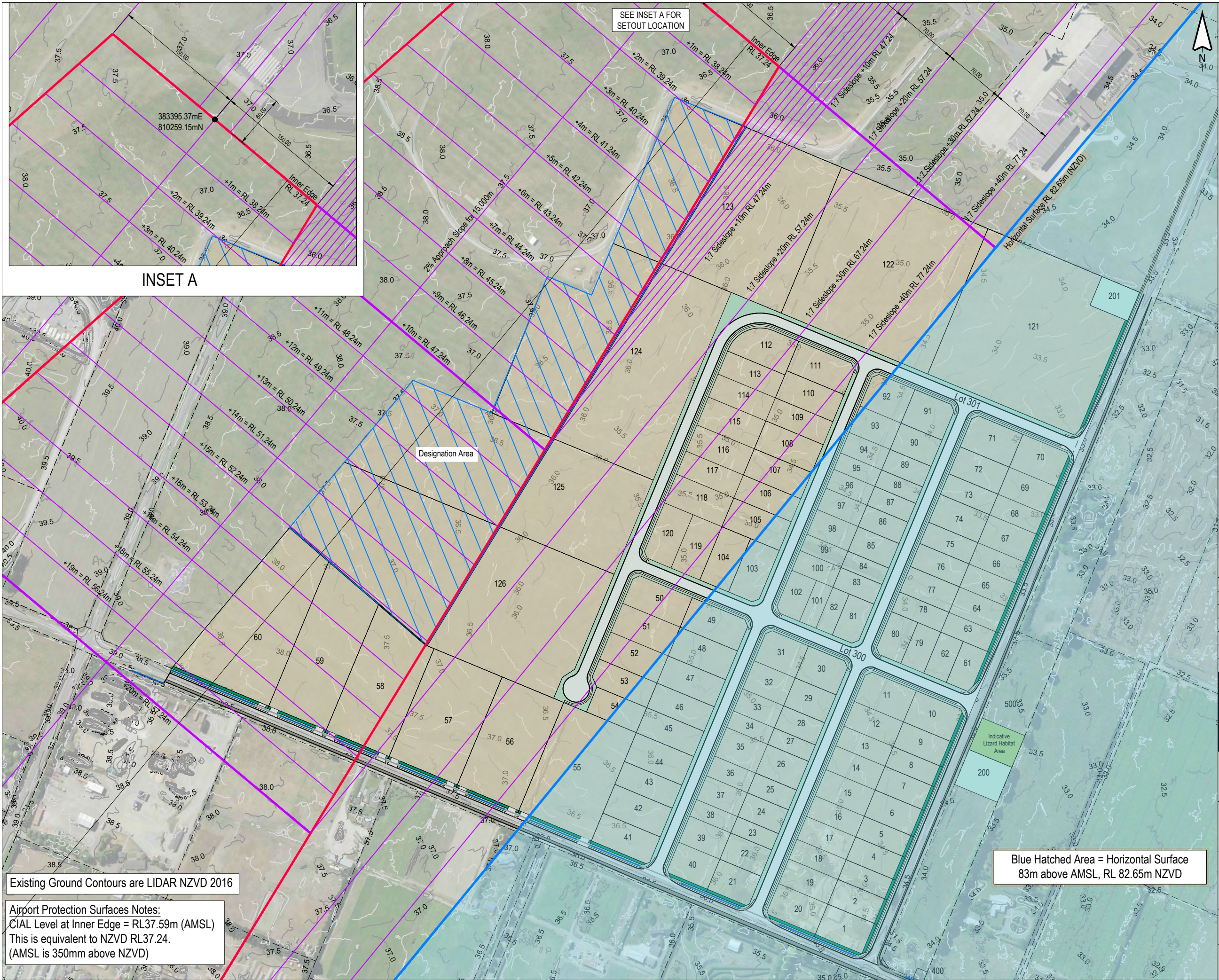
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

PROPOSED SUBDIVISION STAGING

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-PG115	B



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NOTES :

1. SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	05/08/25	HORIZ SURFACE ADDED	TL
C	07/08/25	MINOR REVISIONS	TL
D	12/08/25	MINOR REVISIONS	TL



CLIENT
CARTER GROUP LIMITED

PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
CIAL RUNWAY APPROACH PROTECTION SURFACES

STATUS
FOR APPROVAL

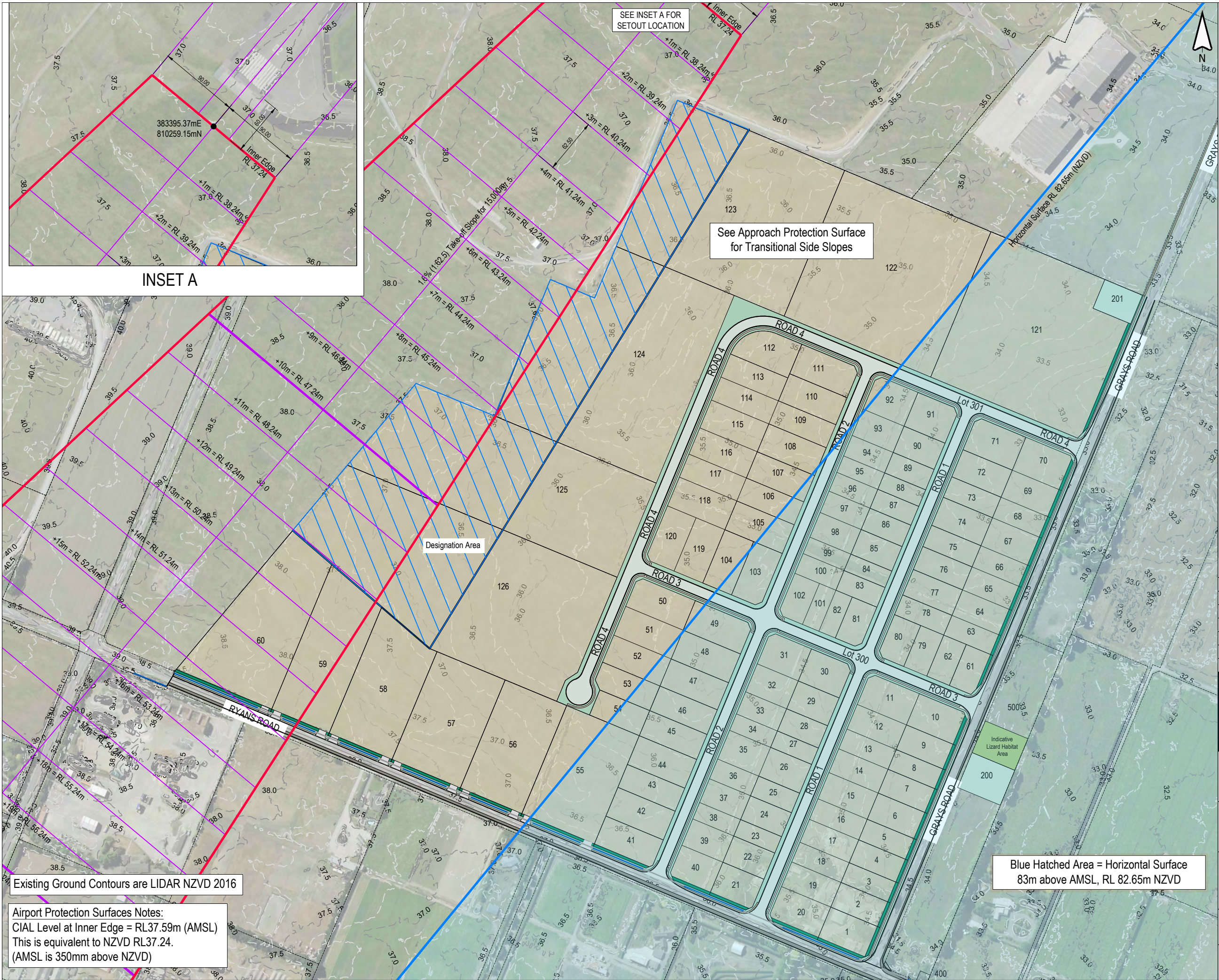
SCALE
1:4000

SIZE
A3

PROJECT
1252

DRAWING NO
RC-PG120

REVISION
D



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NOTES :

1. SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	05/08/25	GENERAL REVISIONS	TL
C	07/08/25	MINOR REVISIONS	TL
D	12/08/25	MINOR REVISIONS	TL

CLIENT

CARTER GROUP LIMITED

PROJECT

104 RYANS ROAD, HAREWOOD

DRAWING TITLE

CIAL RUNWAY TAKE-OFF PROTECTION SURFACES

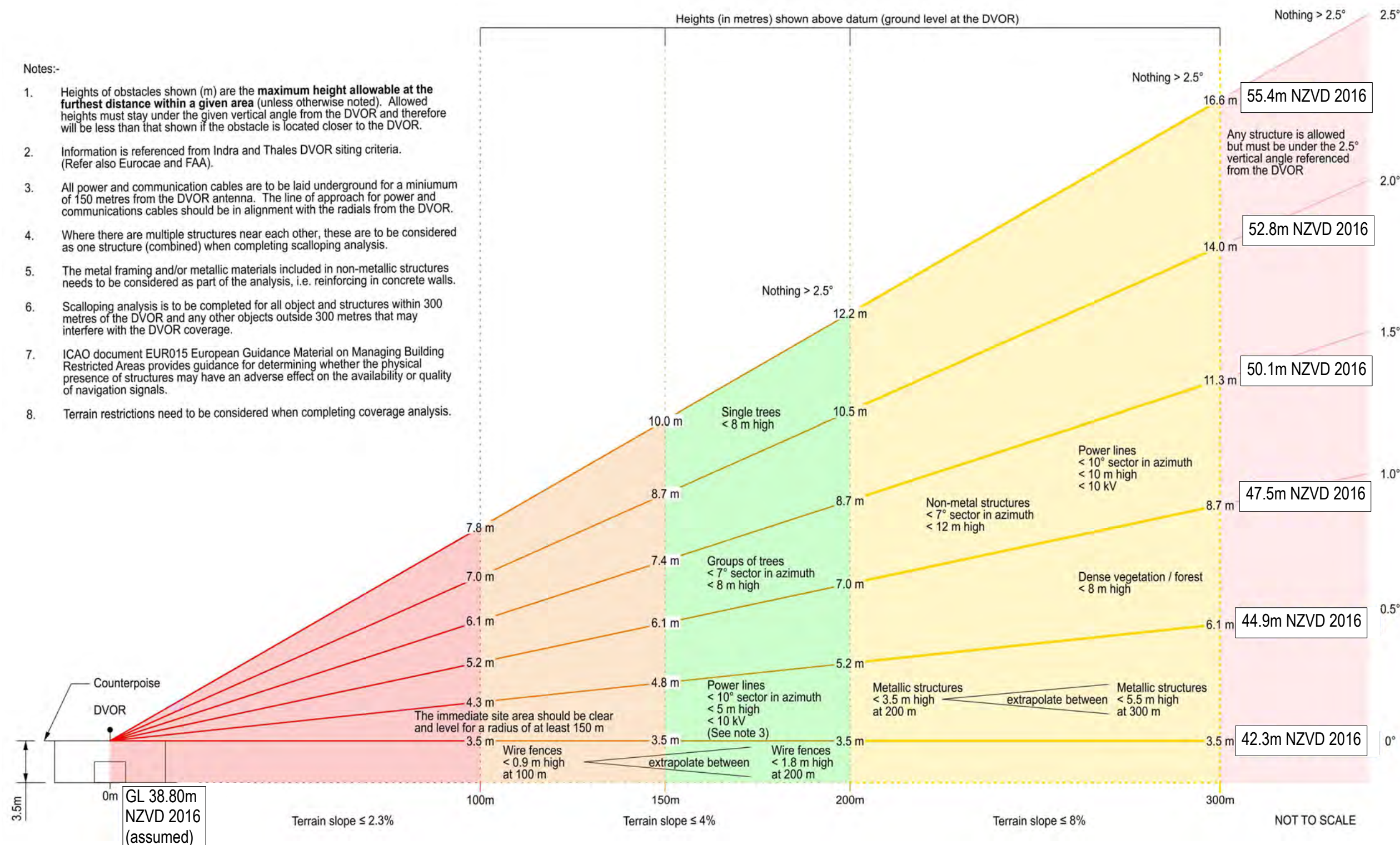
STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-PG121	D

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Notes:-

1. Heights of obstacles shown (m) are the **maximum height allowable at the furthest distance within a given area** (unless otherwise noted). Allowed heights must stay under the given vertical angle from the DVOR and therefore will be less than that shown if the obstacle is located closer to the DVOR.
2. Information is referenced from Indra and Thales DVOR siting criteria. (Refer also Eurocae and FAA).
3. All power and communication cables are to be laid underground for a minimum of 150 metres from the DVOR antenna. The line of approach for power and communications cables should be in alignment with the radials from the DVOR.
4. Where there are multiple structures near each other, these are to be considered as one structure (combined) when completing scalloping analysis.
5. The metal framing and/or metallic materials included in non-metallic structures needs to be considered as part of the analysis, i.e. reinforcing in concrete walls.
6. Scalloping analysis is to be completed for all object and structures within 300 metres of the DVOR and any other objects outside 300 metres that may interfere with the DVOR coverage.
7. ICAO document EUR015 European Guidance Material on Managing Building Restricted Areas provides guidance for determining whether the physical presence of structures may have an adverse effect on the availability or quality of navigation signals.
8. Terrain restrictions need to be considered when completing coverage analysis.



REV	DATE	REVISION DETAILS	ISSUED
A	03/02/24	FOR INFO	TL
B	05/08/25	FOR APPROVAL	TL



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CARTER GROUP LIMITED

PROJECT

104 RYANS ROAD, HAREWOOD

AIRWAYS RESTRICTION PLAN
(NZ DVOR DESIGNATION SITE &
SITING CRITERIA TABLE)

<i>STATUS</i>	<i>SCALE</i>	<i>SIZE</i>
FOR APPROVAL	Not to Scale	A3
<i>PROJECT</i>	<i>DRAWING NO</i>	<i>REVISION</i>
1252	RC-PG123	B



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LEGEND :

AIRPORT DESIGNATION

LIGHTING CONTROL AREA
(SEE RULE 6.3.4.5 NC2)

- NOTES :**
1. SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.
 2. LOTS 200-201 ARE TO BE VESTED AS LOCAL PURPOSE UTILITY RESERVES (STORMWATER)
 3. LOTS 300-301 ARE TO BE VESTED AS ROAD
 4. LOT 400 IS TO BE VESTED AS LOCAL PURPOSE UTILITY RESERVE (WATER)
 5. LOT 500 IS A BALANCE LOT.

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/25	MINOR REVISIONS	TL

CLIENT

CARTER GROUP LIMITED

PROJECT

104 RYANS ROAD, HAREWOOD

LIGHTING CONTROL AREA

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-PG124	B

Existing Ground Contours are LIDAR NZVD 2016



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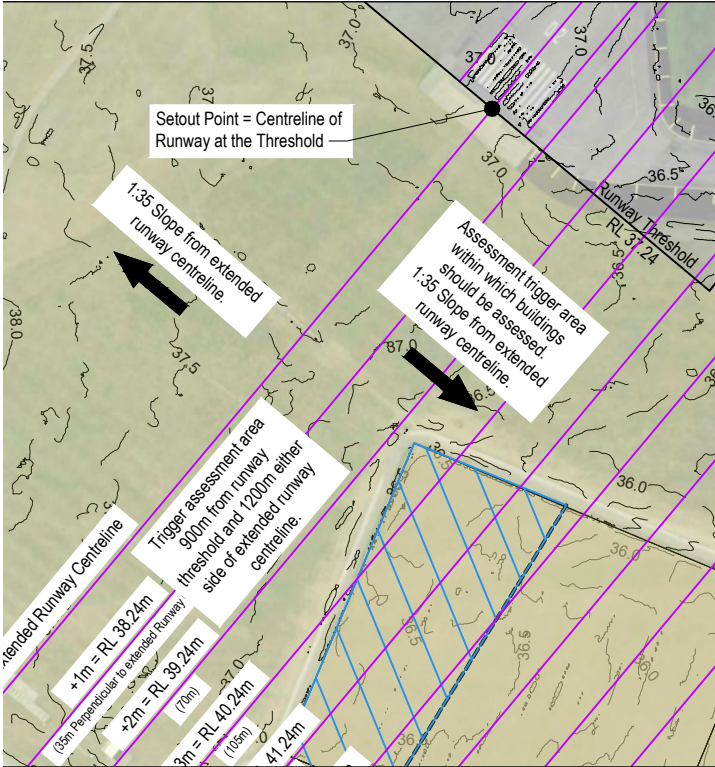
NOTES :

1. SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.
2. GARDEN CITY HELICOPTER PROTECTION SURFACES INFORMATION SUPPLIED FROM CHRISTCHURCH AIRPORT PLAN ASI-1204 REV AB DATED 01/02/2018.

REV	DATE	REVISION DETAILS	ISSUED
A	05/08/25	FOR APPROVAL	TL
B	07/08/25	MINOR REVISIONS	TL
C	12/08/24	MINOR REVISIONS	TL



CLIENT CARTER GROUP LIMITED			
PROJECT 104 RYANS ROAD, HAREWOOD			
DRAWING TITLE GARDEN CITY HELICOPTERS PROTECTION SURFACES			
STATUS FOR APPROVAL		SCALE 1:4000	SIZE A3
PROJECT 1252	DRAWING NO RC-PG125	REVISION C	



INSET A



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NOTES:

1. SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.

REV	DATE	REVISION DETAILS	ISSUED
A	05/08/25	FOR APPROVAL	TL
B	07/08/25	GENERAL REVISIONS	TL
C	12/08/25	MINOR REVISIONS	TL
D	13/08/25	MINOR REVISIONS	TL

CAPTURE
Land Development Consultants

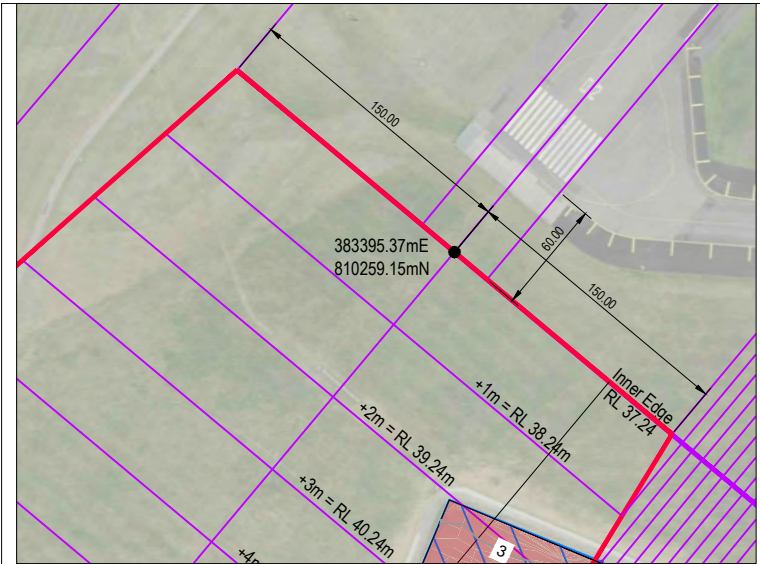
CLIENT
CARTER GROUP LIMITED

PROJECT
104 RYANS ROAD, HAREWOOD

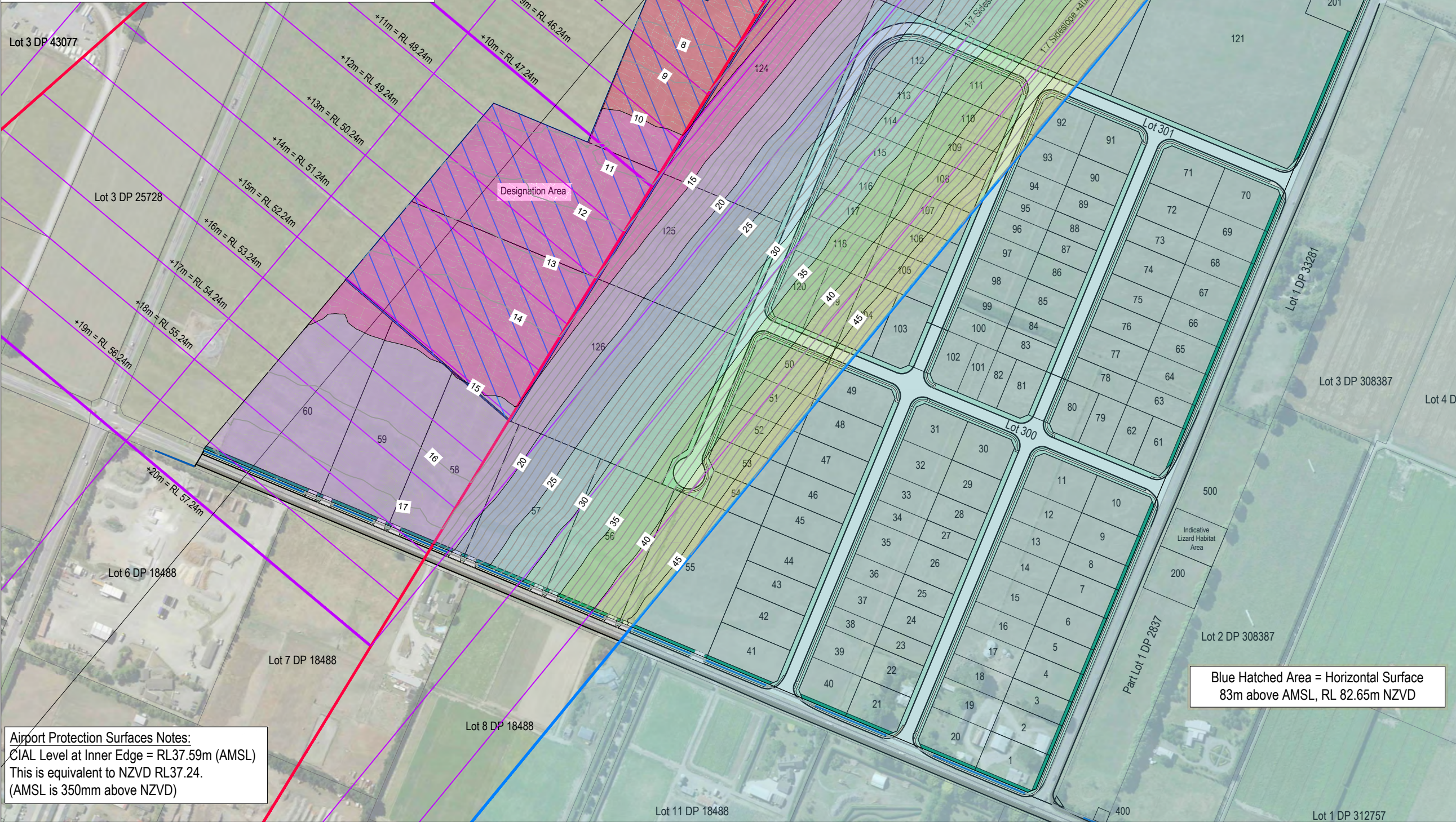
DRAWING TITLE
WINDSHEAR & TURBULENCE ASSESSMENT AREA

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-PG126	D



INSET A



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NOTES:
1. SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.

- LEGEND:
- HATCHED AREAS DESCRIBED BELOW INDICATE THE MAXIMUM ALLOWABLE STRUCTURE HEIGHT ABOVE EXISTING GROUND LEVEL BASED ON THE CIAL RUNWAY 02 APPROACH SLOPE PROTECTION SURFACES.
- 0-5m ABOVE EXISTING GROUND
 - 5-10m ABOVE EXISTING GROUND
 - 10-15m ABOVE EXISTING GROUND
 - 15-20m ABOVE EXISTING GROUND
 - 20-25m ABOVE EXISTING GROUND
 - 25-30m ABOVE EXISTING GROUND
 - 30-35m ABOVE EXISTING GROUND
 - 35-40m ABOVE EXISTING GROUND
 - 40-45m ABOVE EXISTING GROUND
 - 45-50m ABOVE EXISTING GROUND

REV	DATE	REVISION DETAILS	ISSUED
A	12/08/25	FOR APPROVAL	TL

CLIENT

CARTER GROUP LIMITED

PROJECT

104 RYANS ROAD, HAREWOOD

DRAWING TITLE

CIAL RUNWAY 02 APPROACH HEIGHT RESTRICTION PLAN

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

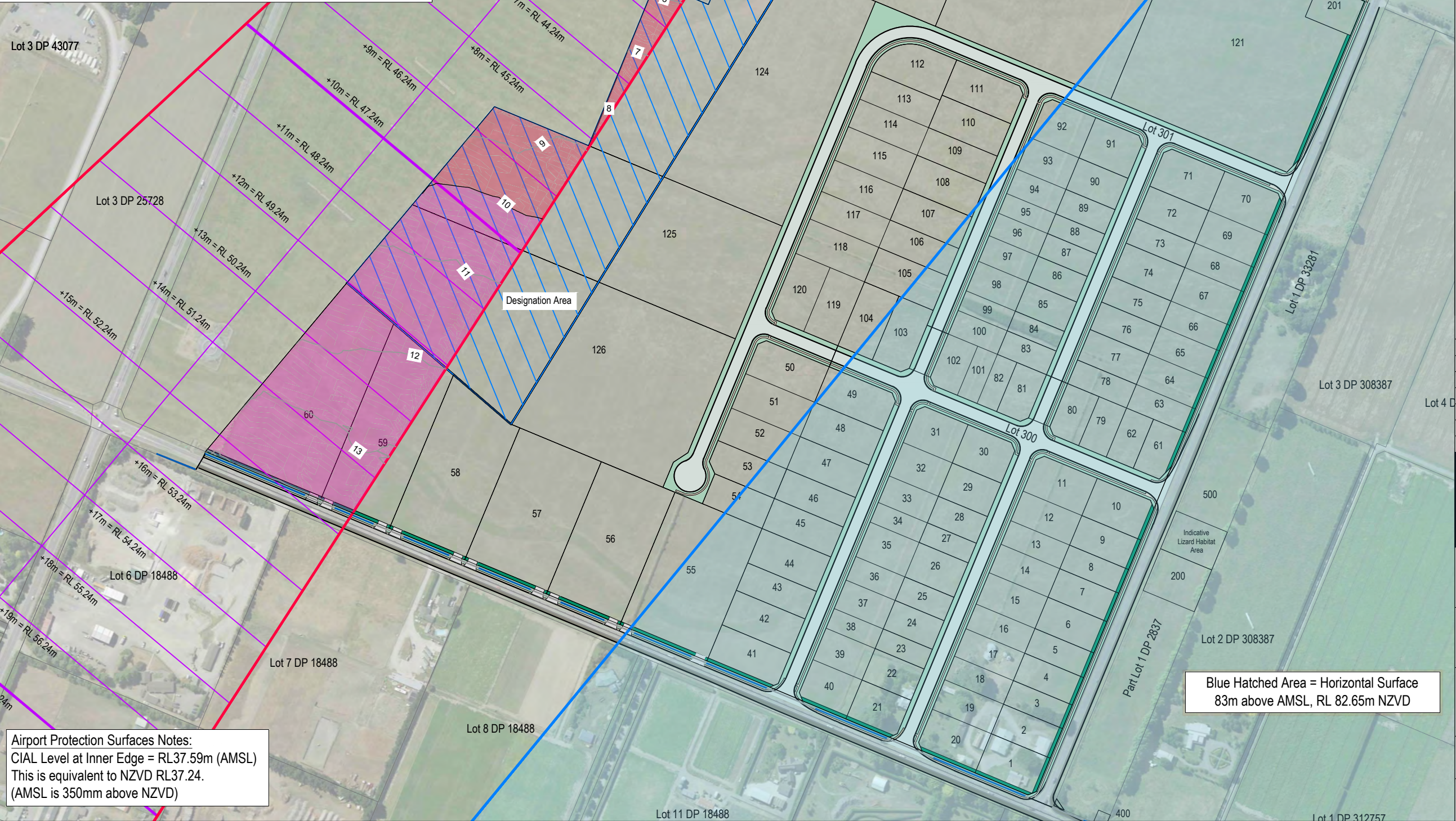
PROJECT	DRAWING NO	REVISION
1252	RC-PG130	A

Airport Protection Surfaces Notes:
CIAL Level at Inner Edge = RL37.59m (AMSL)
This is equivalent to NZVD RL37.24.
(AMSL is 350mm above NZVD)

Blue Hatched Area = Horizontal Surface
83m above AMSL, RL 82.65m NZVD



INSET A



Airport Protection Surfaces Notes:
CIAL Level at Inner Edge = RL37.59m (AMSL)
This is equivalent to NZVD RL37.24.
(AMSL is 350mm above NZVD)

SEE INSET A FOR
SETOUT LOCATION

See Approach Protection Surface
for Transitional Side Slopes

Blue Hatched Area = Horizontal Surface
83m above AMSL, RL 82.65m NZVD

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NOTES :

1. SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.

LEGEND:

HATCHED AREAS DESCRIBED BELOW INDICATE THE MAXIMUM ALLOWABLE STRUCTURE HEIGHT ABOVE EXISTING GROUND LEVEL BASED ON THE CIAL RUNWAY 02 TAKEOFF SLOPE PROTECTION SURFACE.

- 0-5m ABOVE EXISTING GROUND
- 5-10m ABOVE EXISTING GROUND
- 10-15m ABOVE EXISTING GROUND

REV	DATE	REVISION DETAILS	ISSUED
A	12/08/25	FOR APPROVAL	TL

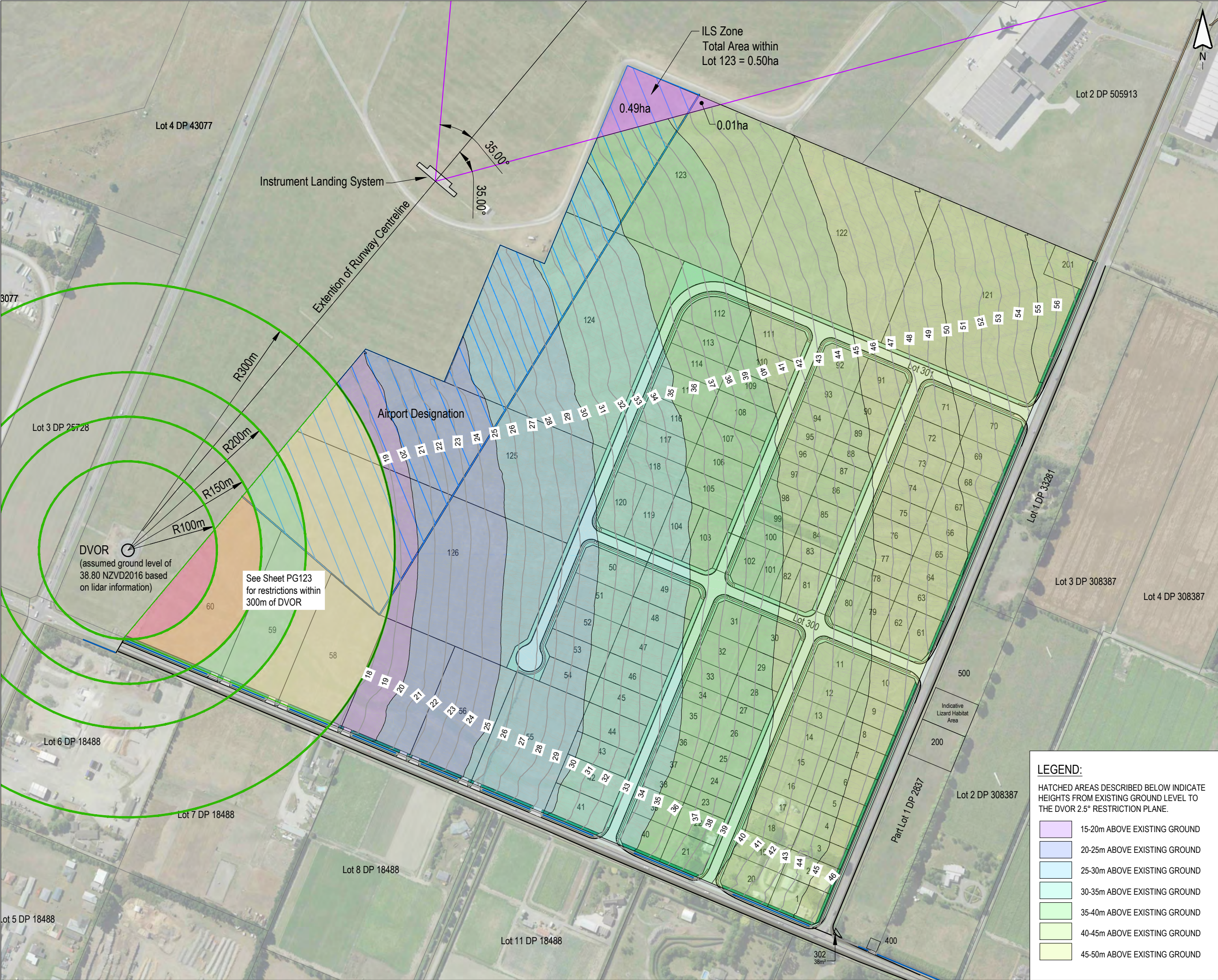
CLIENT
CARTER GROUP LIMITED

PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
CIAL RUNWAY 02 TAKE-OFF HEIGHT RESTRICTION PLAN

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-PG131	A



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LEGEND :

Airport Designation

Doppler very high frequency omni-directional range (DVOR). Refer to plan PG123 for height restriction requirements.

NOTES :

DVOR Information shown on the plan has been sourced from Airways Plan "NZ DVOR Designation Site & Siting Criteria Graphic" Drawing Number 50253 Issue A.

- Heights of obstacles shown (m) are the maximum at the furthest distance within a given area (unless otherwise noted). Allowed heights must stay under given vertical angle from the DVOR and therefore will be less than shown if the obstacle is located closer to the DVOR.
- Information is referenced from Indra and Thales DVOR siting criteria. (Refer also Eurocae and FAA).
- All power and communication cables are to be laid underground for a minimum of 150m from DVOR antenna. The line of approach for power and communications cables should be in alignment with the radials from the DVOR.
- Where there are multiple structures near each other, these are to be considered as one structure (combined) when completing scalloping analysis.
- The metal framing and/or metallic materials included in non-metallic structures needs to be considered as part of the analysis, i.e reinforcing in concrete walls.
- Scalloping analysis is to be completed for all objects and structures within 300m of the DVOR and any other objects outside 300mm that may interfere with the DVOR coverage.
- ICAO document EUR015 European Guidance Material on Managing Building Restricted Areas provides guidance for determining whether the physical presence of structures have an adverse effect on the availability or quality of navigational signals.
- Terrain restrictions need to be considered when completing coverage analysis.

REV	DATE	REVISION DETAILS	ISSUED
A	29/01/25	FOR APPROVAL	TL

CLIENT

CARTER GROUP LIMITED

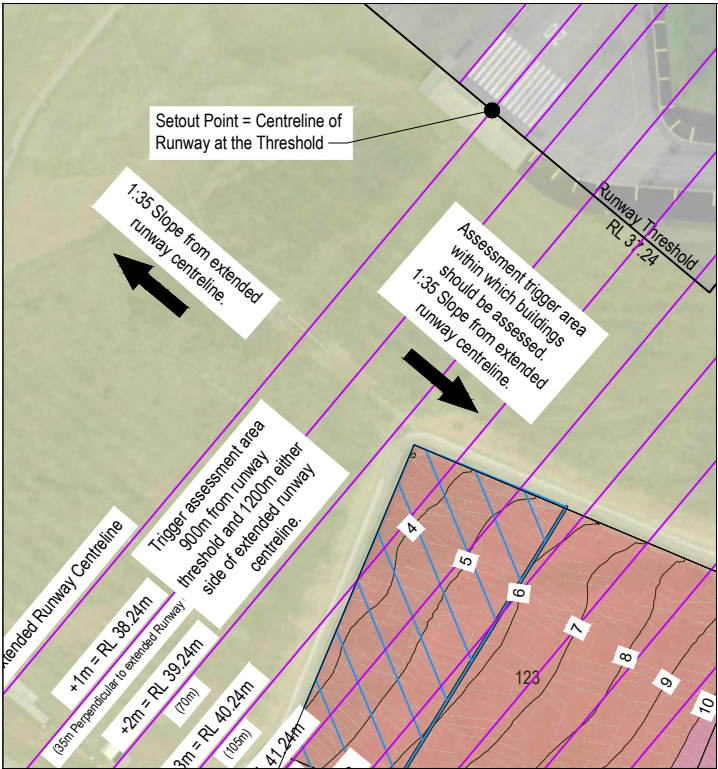
PROJECT

104 RYANS ROAD, HAREWOOD

AIRWAYS HEIGHT RESTRICTION PLAN

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-PG132	A



INSET A

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NOTES :

1. SCHEME PLAN ONLY, AREAS & DIMENSIONS ARE APPROXIMATE & SUBJECT TO FINAL SURVEY.

LEGEND:

HATCHED AREAS DESCRIBED BELOW INDICATE THE HEIGHT ABOVE EXISTING GROUND LEVEL WHERE A PROPOSED STRUCTURE WOULD TRIGGER AN ASSESSMENT OF WINDSHEAR & TURBULENCE EFFECTS ON CIAL RUNWAY 02.

	0-5m ABOVE EXISTING GROUND
	5-10m ABOVE EXISTING GROUND
	10-15m ABOVE EXISTING GROUND
	15-20m ABOVE EXISTING GROUND
	20-25m ABOVE EXISTING GROUND
	25-30m ABOVE EXISTING GROUND

REV	DATE	REVISION DETAILS	ISSUED
A	05/08/25	FOR APPROAVL	TL
B	13/08/25	MINOR REVISIONS	TL

CLIENT

CARTER GROUP LIMITED

PROJECT

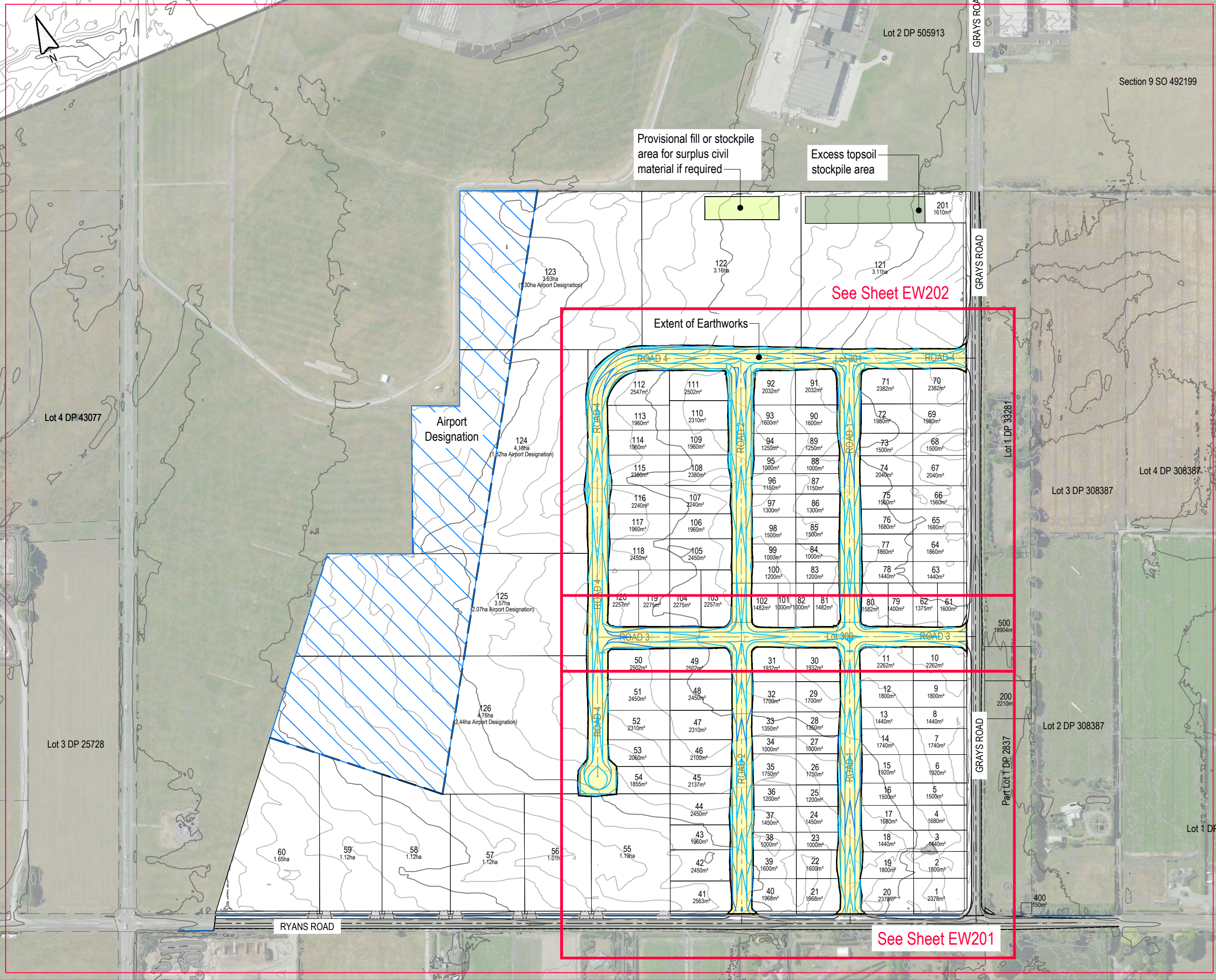
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

WINDSHEAR & TURBULENCE HEIGHT RESTRICTION PLAN

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-PG136	B



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Notes:

1. Levels are in terms of NZVD2016.
2. Existing contours are based on topographical survey and lidar data.
3. Proposed contours are finished design surface.

Legend:

- Existing Contours (0.25m)
- Proposed Contours (0.25m)

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/25	MINOR REVISIONS	TL



CLIENT
CARTER GROUP LIMITED

PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
EXISTING & PROPOSED
CONTOURS - OVERALL

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3
PROJECT 1252	DRAWING NO RC-EW200	REVISION B



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Notes:

1. Levels are in terms of NZVD2016.
2. Existing contours are based on topographical survey and lidar data.
3. Proposed contours are finished design surface.

Legend:

- Existing Contours (0.25m)
- Proposed Contours (0.25m)

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/25	MINOR REVISIONS	TL



CLIENT
CARTER GROUP LIMITED

PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
EXISTING & PROPOSED
CONTOURS (SHEET 1 OF 2)

STATUS	SCALE	SIZE
FOR APPROVAL	1:1500	A3
PROJECT	DRAWING NO	REVISION
1252	RC-EW201	B



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Notes:

1. Levels are in terms of NZVD2016.
2. Existing contours are based on topographical survey and lidar data.
3. Proposed contours are finished design surface.

Legend:

- Existing Contours (0.25m)
- Proposed Contours (0.25m)

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/25	MINOR REVISIONS	TL

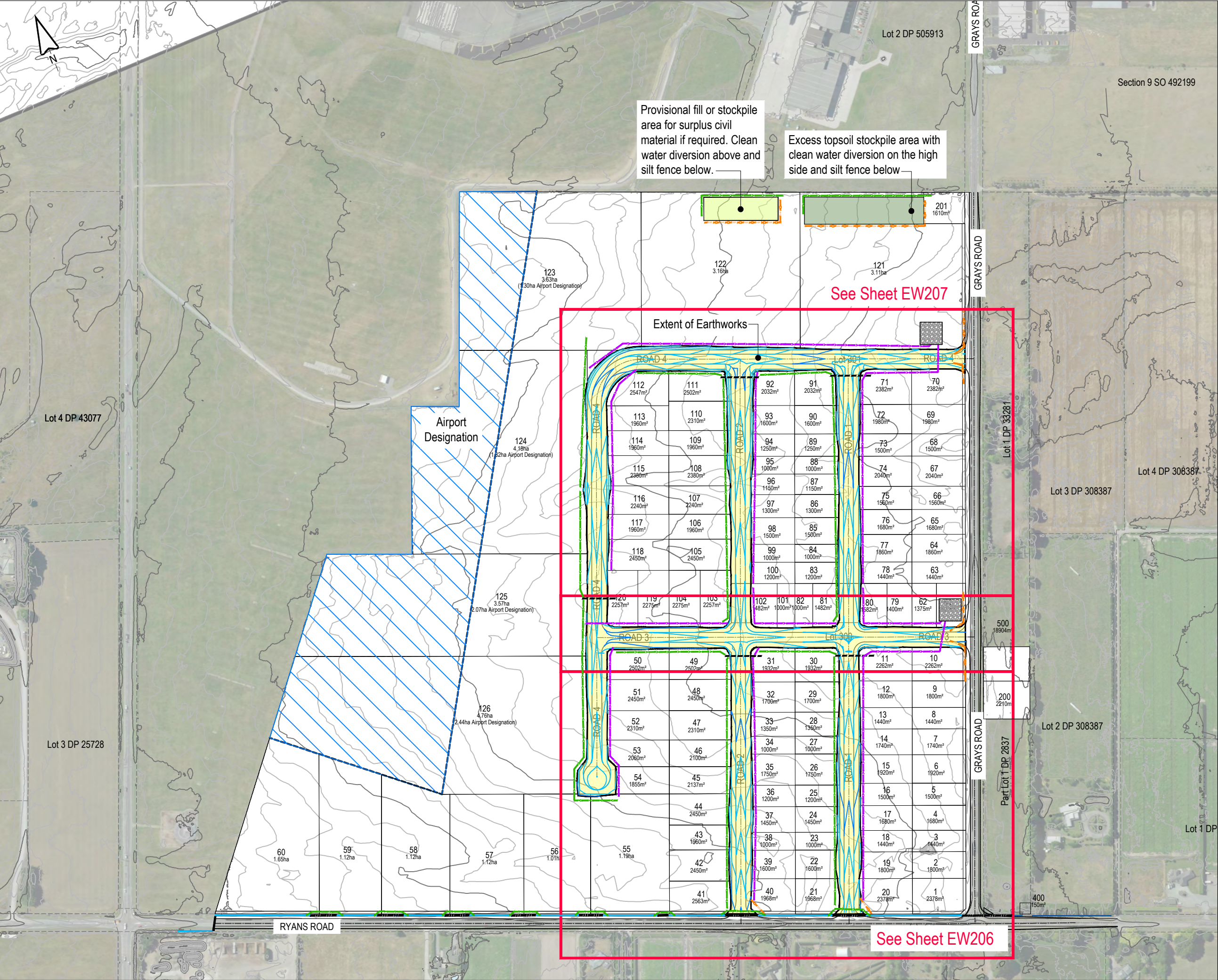


CLIENT
CARTER GROUP LIMITED

PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
EXISTING & PROPOSED
CONTOURS (SHEET 2 OF 2)

STATUS	SCALE	SIZE
FOR APPROVAL	1:1500	A3
PROJECT	DRAWING NO	REVISION
1252	RC-EW202	B



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NOTES:

1. TOPSOIL STOCKPILES ARE CONCEPTUAL ONLY.
2. EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED & INSPECTED BY THE ENGINEER AND/OR LOCAL AUTHORITY REPRESENTATIVE PRIOR TO COMMENCING EARTHWORKS.
3. ALL SURFACES SHALL BE STABILISED ONCE EARTHWORKS ARE COMPLETE.
4. ANY STOCKPILE OF MATERIAL ONSITE SHOULD BE COVERED OR STABILISED TO MINIMISE LOSSES AND SHALL NOT BE LOCATED IN OVERLAND FLOW PATHS OR SITE LOW POINTS.
5. ALL RUBBISH, VEGETATION, DEBRIS ETC SHOULD BE REMOVED FROM THE EARTHWORKS AREA AND REMOVED FROM THE SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF TOPSOIL STRIPPING.
6. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE OPERATIONAL PRIOR TO ANY OTHER WORK COMMENCING ON SITE. THE CONTRACTOR SHALL ARRANGE FOR AND ATTEND A PRELIMINARY SEDIMENT CONTROL MEETING ON-SITE WITH THE ENGINEER AND ECAN AND COUNCIL REPRESENTATIVES.
7. THE CONTRACTOR SHALL ENSURE COUNCIL BEST MANAGEMENT PRACTICES ARE IN PLACE DURING THE CONSTRUCTION PERIOD OF DEVELOPMENT, INCLUDING AT SITE ENTRANCES AND EXITS, TO CONTROL DUST, SILT, MUD AND DISCHARGE FROM SITE ENTERING A WATER BODY.
8. FURTHER SEDIMENT CONTROL MAYBE REQUIRED BY THE ENGINEER AS THE PROJECT ADVANCES. THESE WILL BE INSTALLED AS AND WHERE DIRECTED BY THE ENGINEER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE SITE HAS EFFECTIVE SILT DETENTION FACILITIES OPERATING AT ALL TIMES.
9. ALL SEDIMENT AND EROSION CONTROL FEATURES SHALL BE IN ACCORDANCE WITH ENVIRONMENT CANTERBURY'S EROSION AND SEDIMENT CONTROL TOOLBOX.

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/25	MINOR REVISIONS	TL

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PROJECT

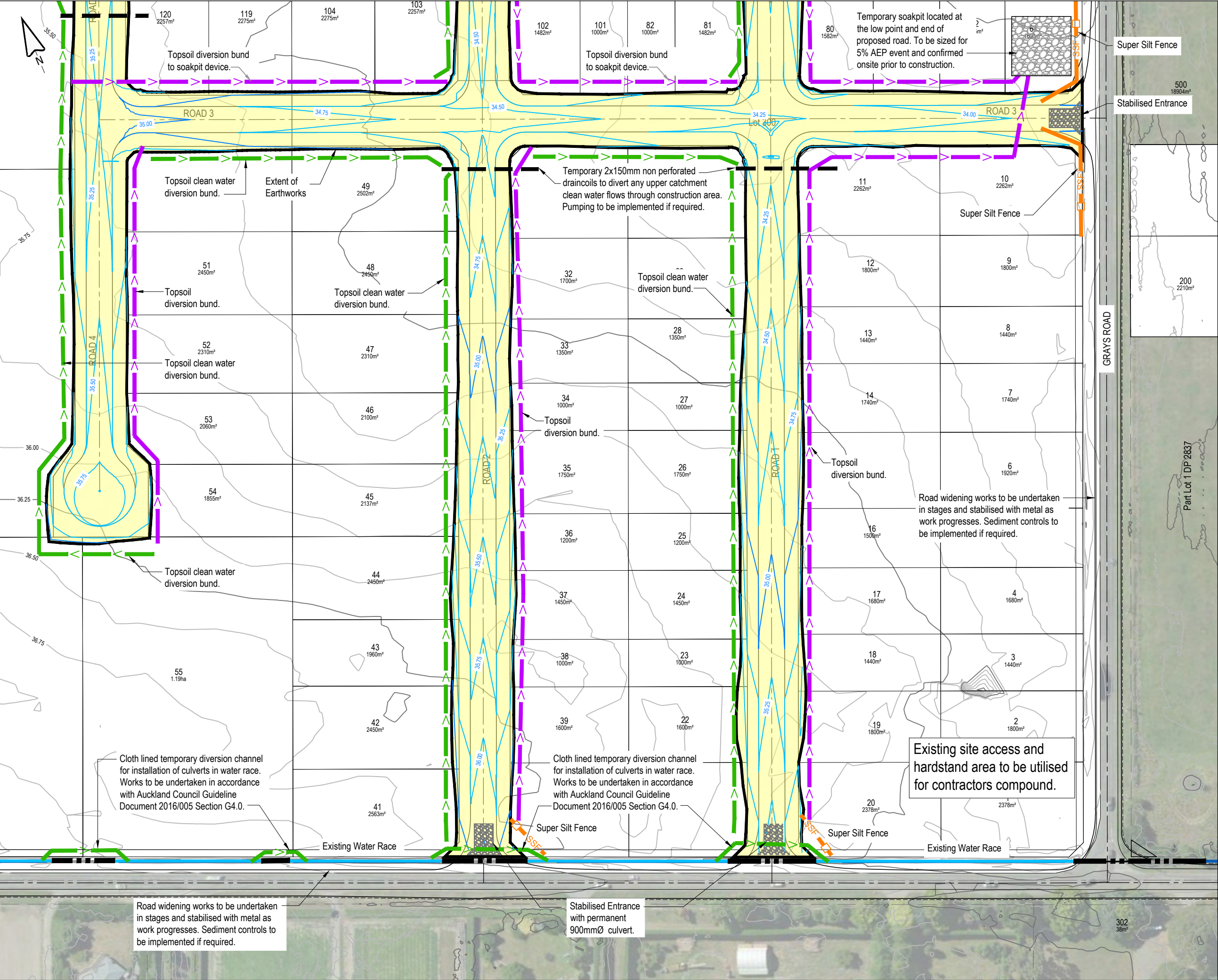
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

EROSION & SEDIMENT CONTROL PLAN - OVERALL

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-EW205	B



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NOTES:
1. SEE SHEET EW205 FOR EROSION AND SEDIMENT CONTROL NOTES.

LEGEND:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EARTHWORKS CATCHMENT
- CLEANWATER DIVERSION
- SSF SUPER SILT FENCE
- RUNOFF DIVERSION

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	24/07/25	MINOR REVISION	TL
C	12/08/25	MINOR REVISIONS	TL

CAPTURE
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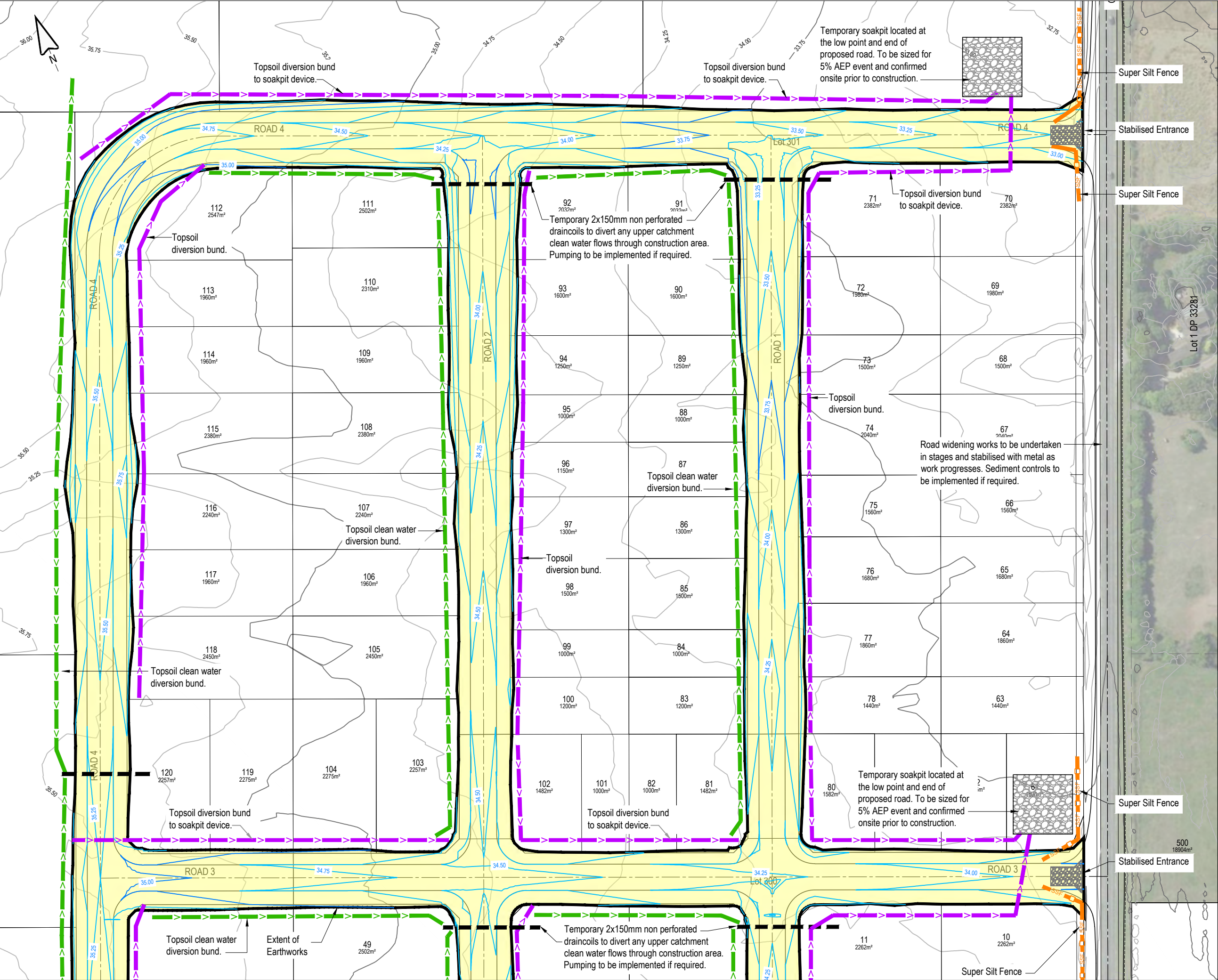
CLIENT
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PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
EROSION & SEDIMENT CONTROL PLAN (SHEET 1 OF 2)

STATUS	SCALE	SIZE
FOR APPROVAL	1:1500	A3

PROJECT	DRAWING NO	REVISION
1252	RC-EW206	C



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NOTES:
1. SEE SHEET EW205 FOR EROSION AND SEDIMENT CONTROL NOTES.

LEGEND:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EARTHWORKS CATCHMENT
- CLEANWATER DIVERSION
- SSF SUPER SILT FENCE
- RUNOFF DIVERSION

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/25	MINOR REVISIONS	TL

CAPTURE
Land Development Consultants

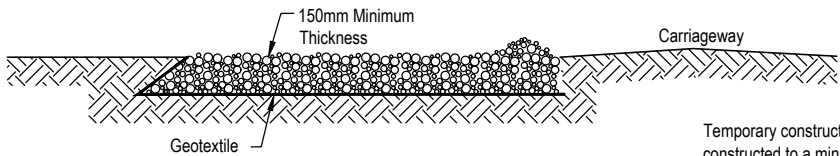
CLIENT
CARTER GROUP LIMITED

PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
EROSION & SEDIMENT CONTROL PLAN (SHEET 2 OF 2)

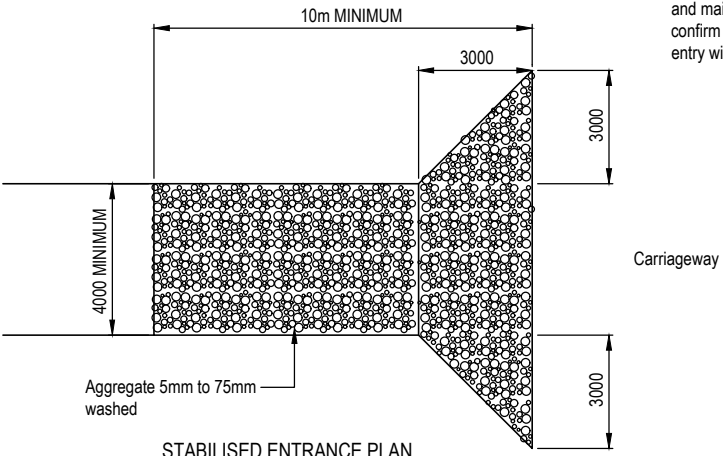
STATUS	SCALE	SIZE
FOR APPROVAL	1:1500	A3

PROJECT	DRAWING NO	REVISION
1252	RC-EW207	B



STABILISED ENTRANCE SECTION
Scale 1:200 (A3)

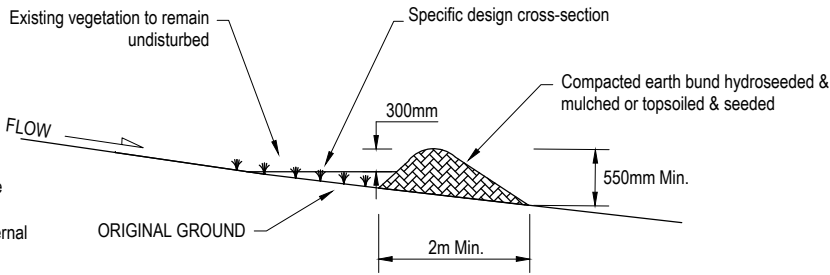
Temporary construction site entry/exit pad constructed to a minimum of 10m of aggregate placed 4m wide and 150mm deep as per the Erosion & Sediment Control Toolbox for Canterbury. Existing road surfaces are to be kept clean throughout the project with daily monitoring and maintenance as required. Contractor to confirm at pre-start meeting where main site entry will be located.



STABILISED ENTRANCE PLAN
Scale 1:200 (A3)

CLEAN WATER DIVERSION:

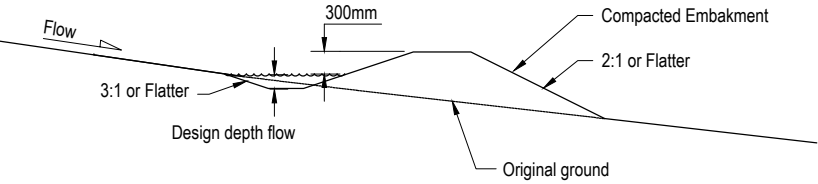
- The diversion channels should be parabolic or trapezoidal in shape
- Ensure internal sides of the bund are no steeper than 3:1, and external sides no steeper than 2:1, as outlined below



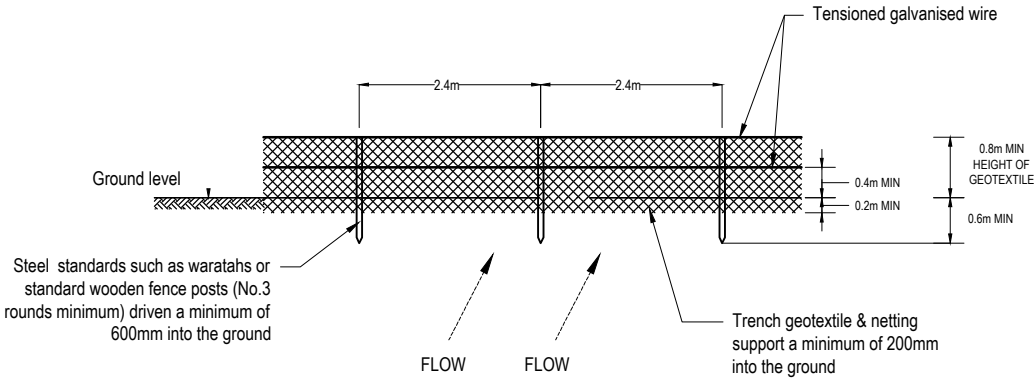
CLEAN WATER DIVERSION CROSS-SECTION
SCALE: 1:50 AT A3

DIRTY WATER DIVERSION:

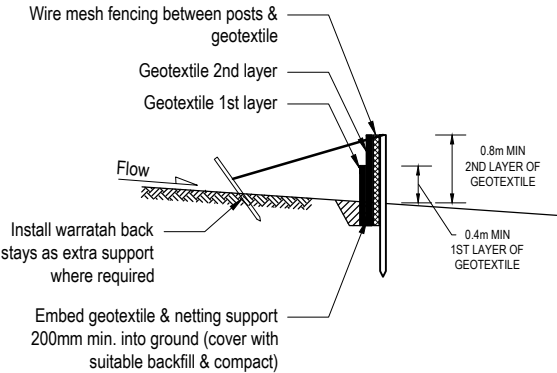
- Drains which can be lined with an erosion-resistant material such as needle-punched fabric
- A combination bank or bund with excavated up-slope channel
- An earthen bank, which is often made from compacted soil.



RUNOFF DIVERSION BUND CROSS-SECTION
SCALE: 1:50 AT A3

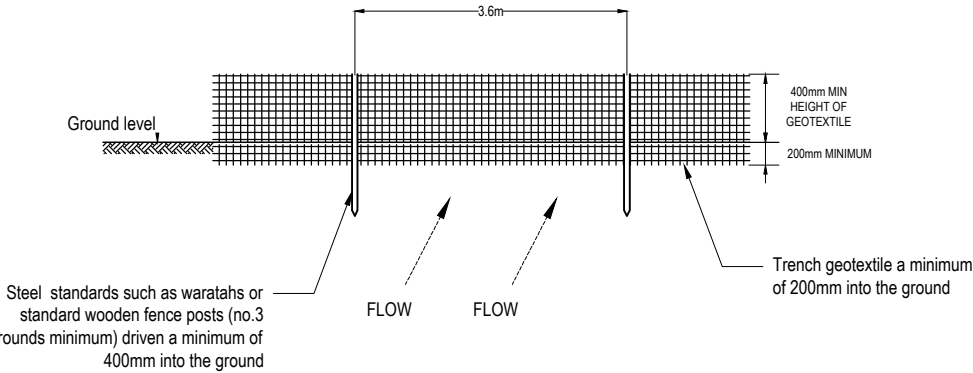


SUPER SILT FENCE ELEVATION
SCALE: 1:75 AT A3

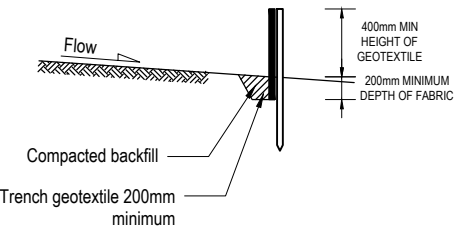


SUPER SILT FENCE CROSS-SECTION
SCALE: 1:75 AT A3

Super silt fence design criteria			
Slope steepness %	Slope length (m) (maximum)	Spacing of returns (m)	Super silt fence length (m) (maximum)
0-10%	unlimited	60	Unlimited
10-20%	60	50	450
20-33%	30	40	300
33-50%	30	30	150
>50%	15	20	75



SILT FENCE ELEVATION
SCALE: 1:75 AT A3



SILT FENCE CROSS-SECTION
SCALE: 1:75 AT A3

Silt fence design criteria			
Slope steepness %	Slope length (m) (maximum)	Spacing of returns (m)	Super silt fence length (m) (maximum)
Flatter than 2%	Unlimited	N/A	Unlimited
2-10%	40	60	300
10-20%	30	50	230
20-33%	20	40	150
33-50%	15	30	75
>50%	6	20	40

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REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL



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PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
EROSION & SEDIMENT CONTROL DETAILS

STATUS FOR APPROVAL
SCALE AS SHOWN
SIZE A3

PROJECT 1252
DRAWING NO RC-EW210
REVISION A

TOTAL EARTHWORKS

AREA OF EARTHWORKS = 6.12ha
VOLUME OF TOPSOIL = 18,360m³
(300mm TOPSOIL ASSUMED)
CUT VOLUME - BULK EARTHWORKS = 7,680m³
CUT VOLUME - SERVICE TRENCHES = 2,500m³ (APPROX. ONLY)
FILL VOLUME - BULK EARTHWORKS = 8,930m³
(10% COMPACTION ASSUMED)
BALANCE = 1,250m³ CUT TO STOCKPILE (APPROX. ONLY)

Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)	2D Area (m²)	Volume (m³)
1	Orange	-0.500	0.000	31821.4	7677.8
2	Green	0.000	0.500	29414.5	8112.8

STAGE 1 EARTHWORKS

AREA OF EARTHWORKS = 2.49ha
VOLUME OF TOPSOIL = 7,470m³
(300mm TOPSOIL ASSUMED)
CUT VOLUME - BULK EARTHWORKS = 3,225m³
CUT VOLUME - SERVICE TRENCHES = 1,250m³ (APPROX. ONLY)
FILL VOLUME - BULK EARTHWORKS = 3,278m³
(10% COMPACTION ASSUMED)
BALANCE = 1,197m³ CUT TO STOCKPILE (APPROX. ONLY)

STAGE 2 EARTHWORKS

AREA OF EARTHWORKS = 3.63ha
VOLUME OF TOPSOIL = 10,890m³
(300mm TOPSOIL ASSUMED)
CUT VOLUME - BULK EARTHWORKS = 4,455m³
CUT VOLUME - SERVICE TRENCHES = 1,250m³ (APPROX. ONLY)
FILL VOLUME - BULK EARTHWORKS = 5,652m³
(10% COMPACTION ASSUMED)
BALANCE = 53m³ CUT TO STOCKPILE (APPROX. ONLY)

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Notes:

- Earthwork contours shown depict the cut and fill depth between existing ground surface and the final finished ground surface.

Legend:

- Existing Contours (0.25m)
- Area of Cut
- Area of Fill

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/25	MINOR REVISIONS	TL



CLIENT CARTER GROUP LIMITED			
PROJECT 104 RYANS ROAD, HAREWOOD			
DRAWING TITLE PROPOSED CUT & FILL ELEVATIONS			
STATUS FOR APPROVAL	SCALE 1:4000	SIZE A3	
PROJECT 1252	DRAWING NO RC-EW220	REVISION B	

Development Site Areas
Proposed Internal Roads: Area = 29,680m²
Proposed Internal Footpaths: Area = 3,900m²
Proposed Internal Berms: Area = 21,220m²
Proposed Internal Total Road Reserve: Area = 54,800m²

Proposed Road Widening Works to Existing Roads
Proposed Road Widen Pavement: Area = 3,320m²
Proposed Footpaths to Existing Roads: Area = 2,234m²

Extend 1.5m wide footpath to join existing footpath in George Bellew Road.

GEORGE BELLEW ROAD

Lot 2 DP 505913

GRAYS ROAD

DETAIL A

See Sheet RD306

See Sheet RD303

See Sheet RD305

See Sheet RD302

See Sheet RD307

Airport Designation

Lot 3 DP 25728

Possible future land take for proposed roundabout

Two vehicle crossings per lot for lots 55-59 and one for Lot 60. Locations are indicative only. See Sheet RD330 for details.

See Sheet RD304

See Sheet RD301

Section 9 SO 492199

Extend 1.5m wide footpath to join existing footpath in George Bellew Road. See Detail A.

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NOTES:

1. ALL WORKS ARE TO BE IN TERMS OF CCC AND CCC CSS WHERE APPLICABLE

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A	25/02/25	FOR APPROVAL	TL
B	24/07/25	REVISIONS	TL
C	08/08/25	GENERAL REVISIONS	TL



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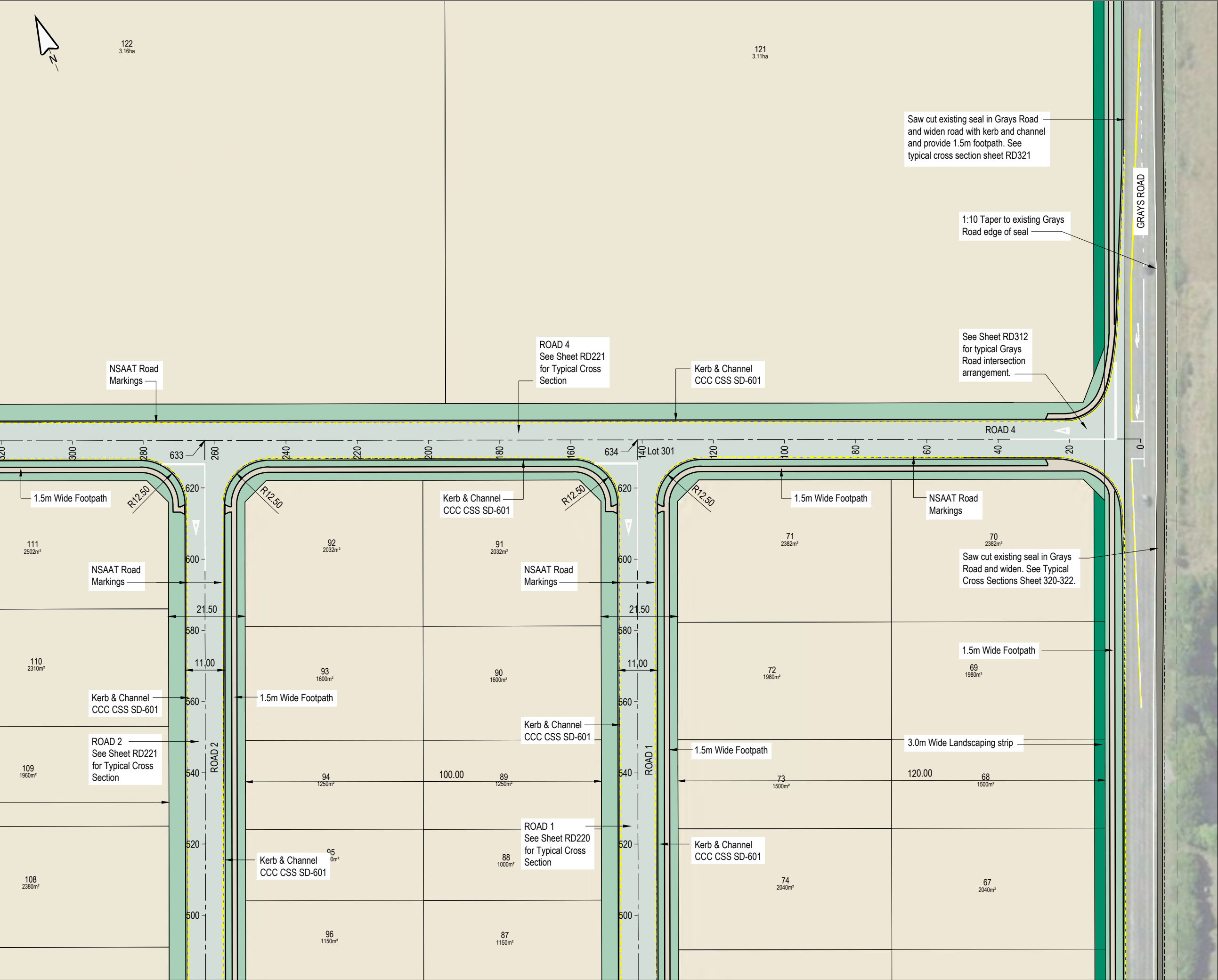
PROJECT

104 RYANS ROAD, HAREWOOD

DRAWING TITLE

ROAD LAYOUT PLAN
(OVERALL)

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3
PROJECT	DRAWING NO	REVISION
1252	RC-RD300	C



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B	08/08/25	GENERAL REVISIONS	TL

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PROJECT

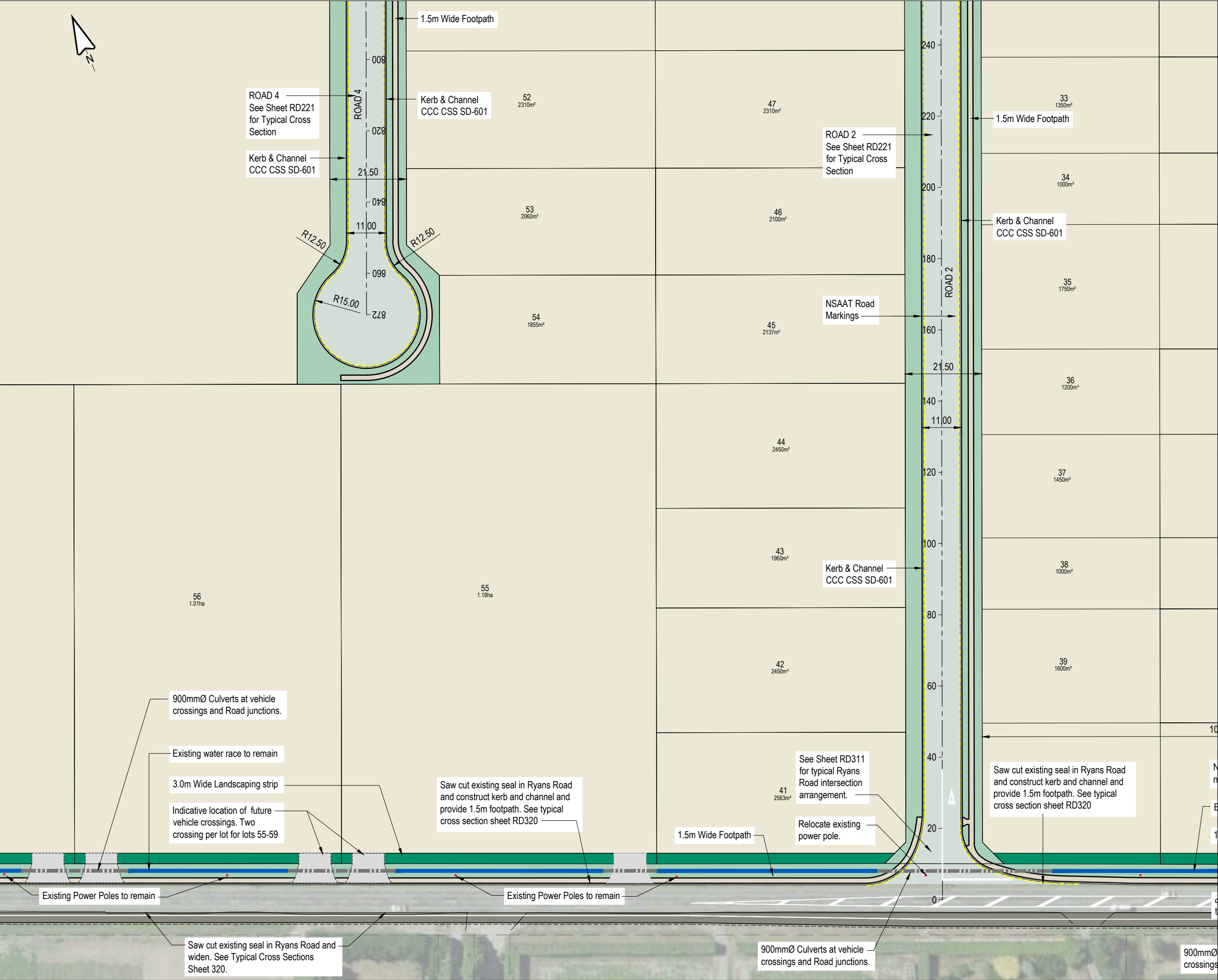
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

ROAD LAYOUT PLAN
(SHEET 3 OF 7)

STATUS	SCALE	SIZE
FOR APPROVAL	1:1000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD303	B



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A	25/02/25	FOR APPROVAL	TL
B	06/03/25	AMENDMENTS	TL
C	24/07/25	REVISIONS	TL
D	08/08/25	GENERAL REVISIONS	TL

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Land Development Consultants

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PROJECT

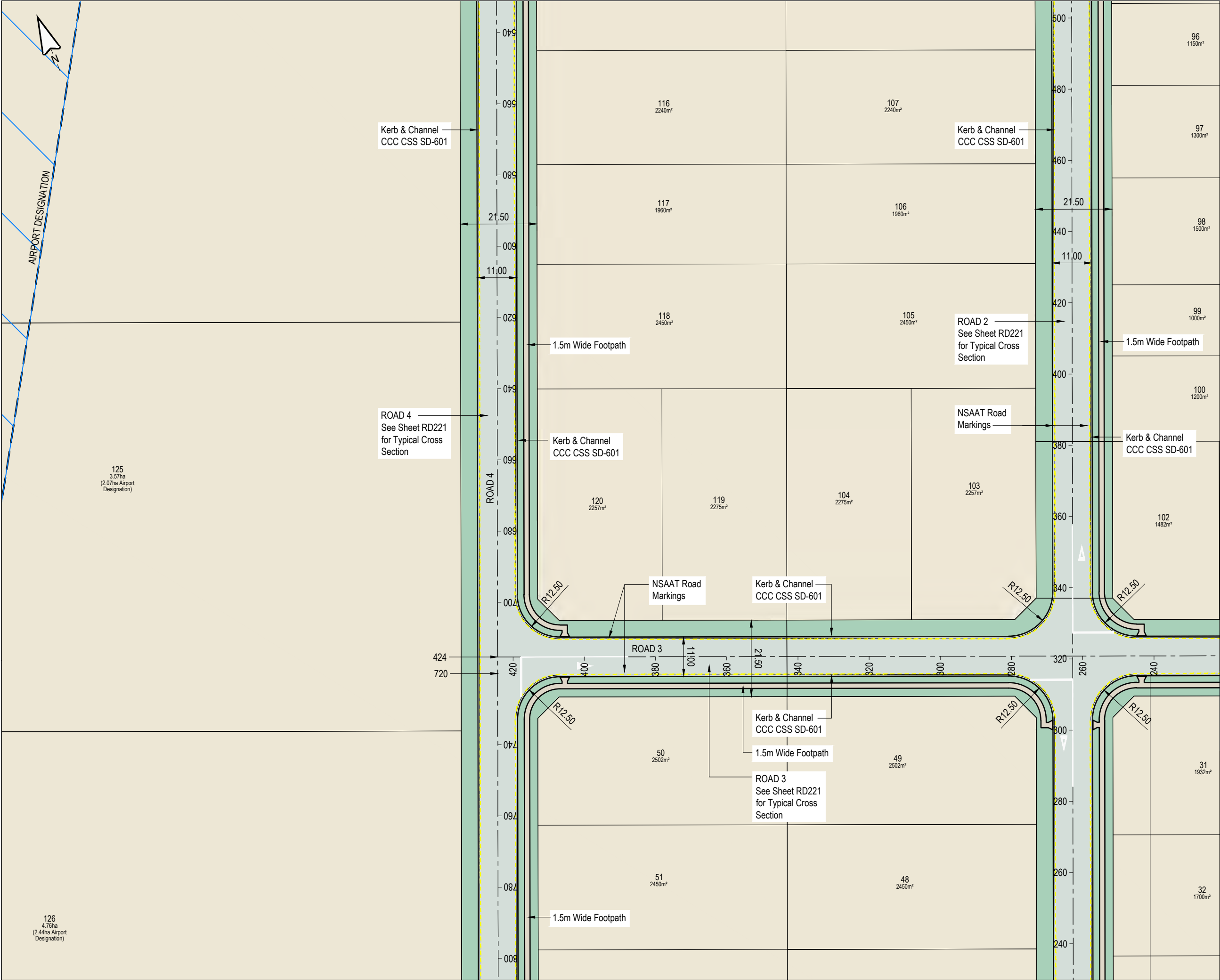
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

ROAD LAYOUT PLAN
(SHEET 4 OF 7)

STATUS	SCALE	SIZE
FOR APPROVAL	1:1000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD304	D



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A	25/02/25	FOR APPROVAL	TL

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CARTER GROUP LIMITED

PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
ROAD LAYOUT PLAN
(SHEET 5 OF 7)

STATUS	SCALE	SIZE
FOR APPROVAL	1:1000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD305	A



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A	25/02/25	FOR APPROVAL	TL

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Land Development Consultants

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CARTER GROUP LIMITED

PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
ROAD LAYOUT PLAN
(SHEET 6 OF 7)

STATUS	SCALE	SIZE
FOR APPROVAL	1:1000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD306	A




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A	08/08/25	FOR INFO	TL



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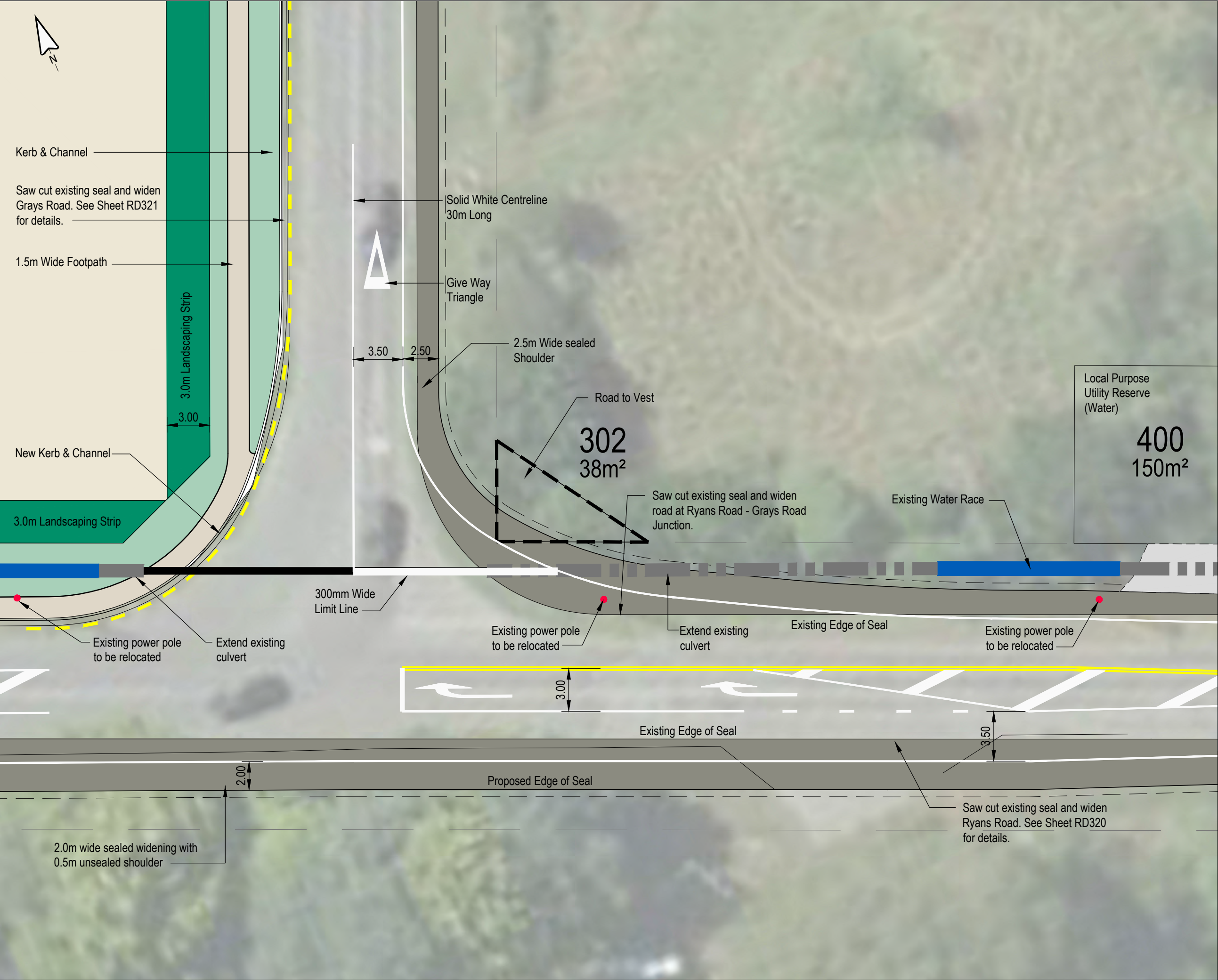
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

ROAD LAYOUT PLAN
(SHEET 7 OF 7)

STATUS	SCALE	SIZE
FOR APPROVAL	1:1000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD307	A



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B	06/03/25	AMENDMENTS	TL
C	24/07/25	REVISIONS	TL
D	08/08/25	GENERAL REVISIONS	TL

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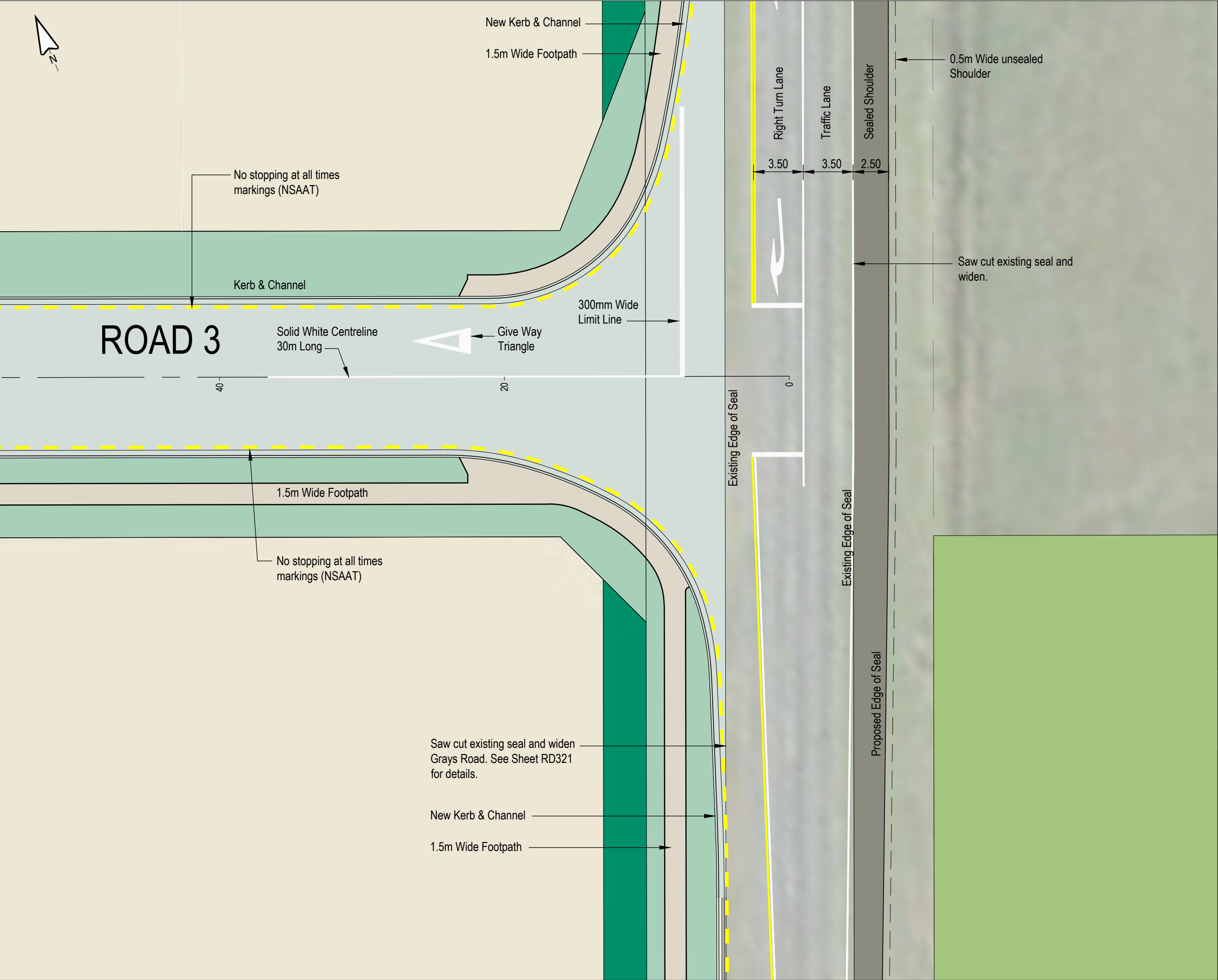
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

RYANS ROAD & GRAYS ROAD INTERSECTION

STATUS	SCALE	SIZE
FOR APPROVAL	1:250	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD310	D



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A	25/02/25	FOR APPROVAL	TL
B	11/08/25	GENERAL REVISIONS	TL

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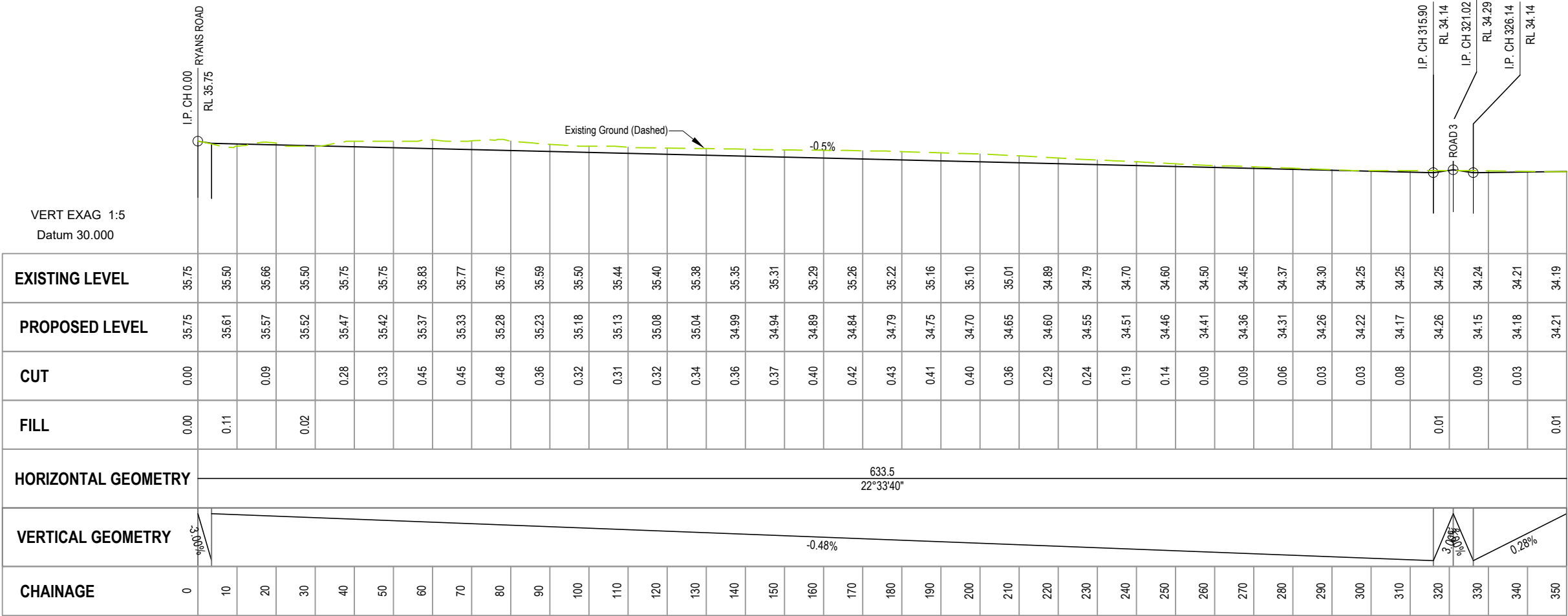
CLIENT
CARTER GROUP LIMITED

PROJECT
104 RYANS ROAD, HAREWOOD

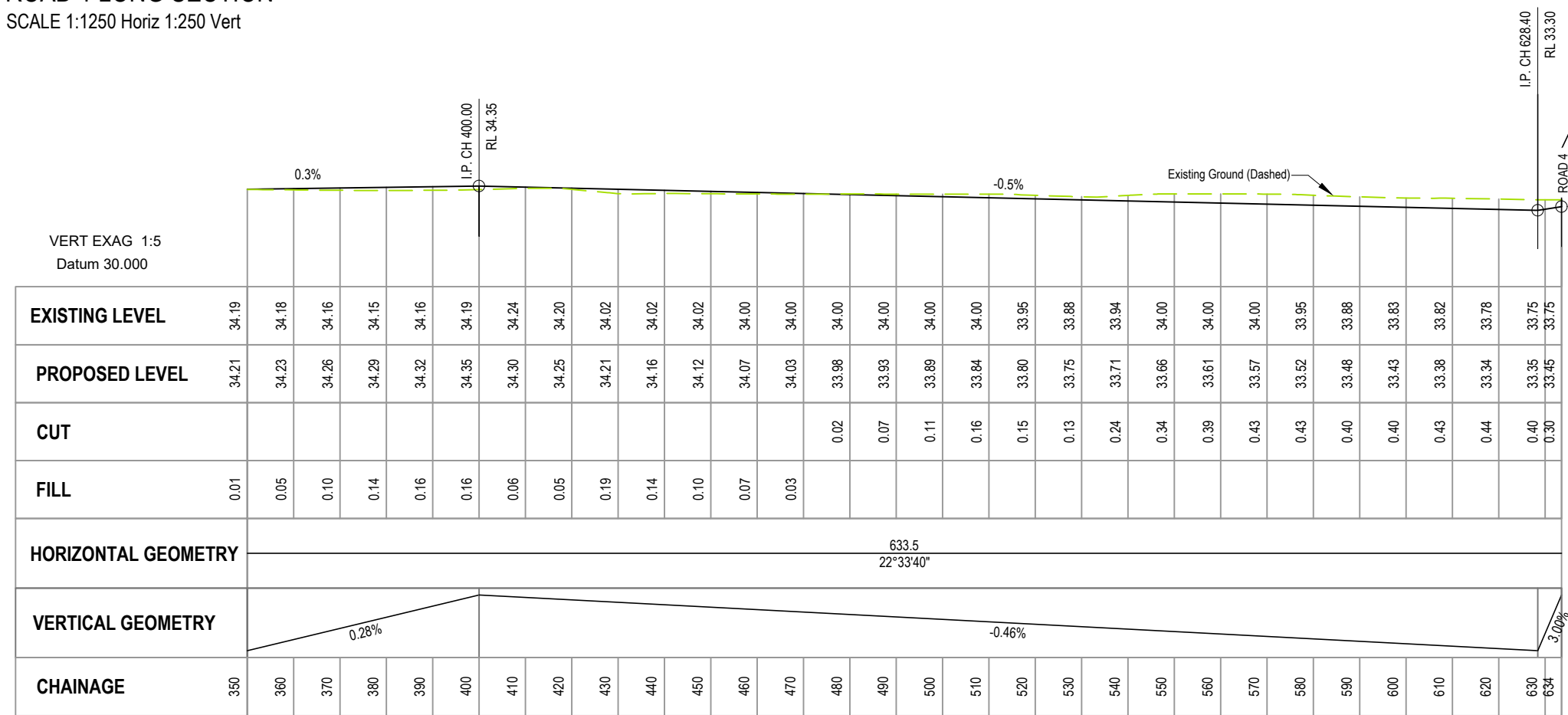
DRAWING TITLE
TYPICAL GRAYS ROAD INTERSECTION

STATUS	SCALE	SIZE
FOR APPROVAL	1:250	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD312	B



ROAD 1 LONG SECTION
SCALE 1:1250 Horiz 1:250 Vert



ROAD 1 LONG SECTION
SCALE 1:1250 Horiz 1:250 Vert

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REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL

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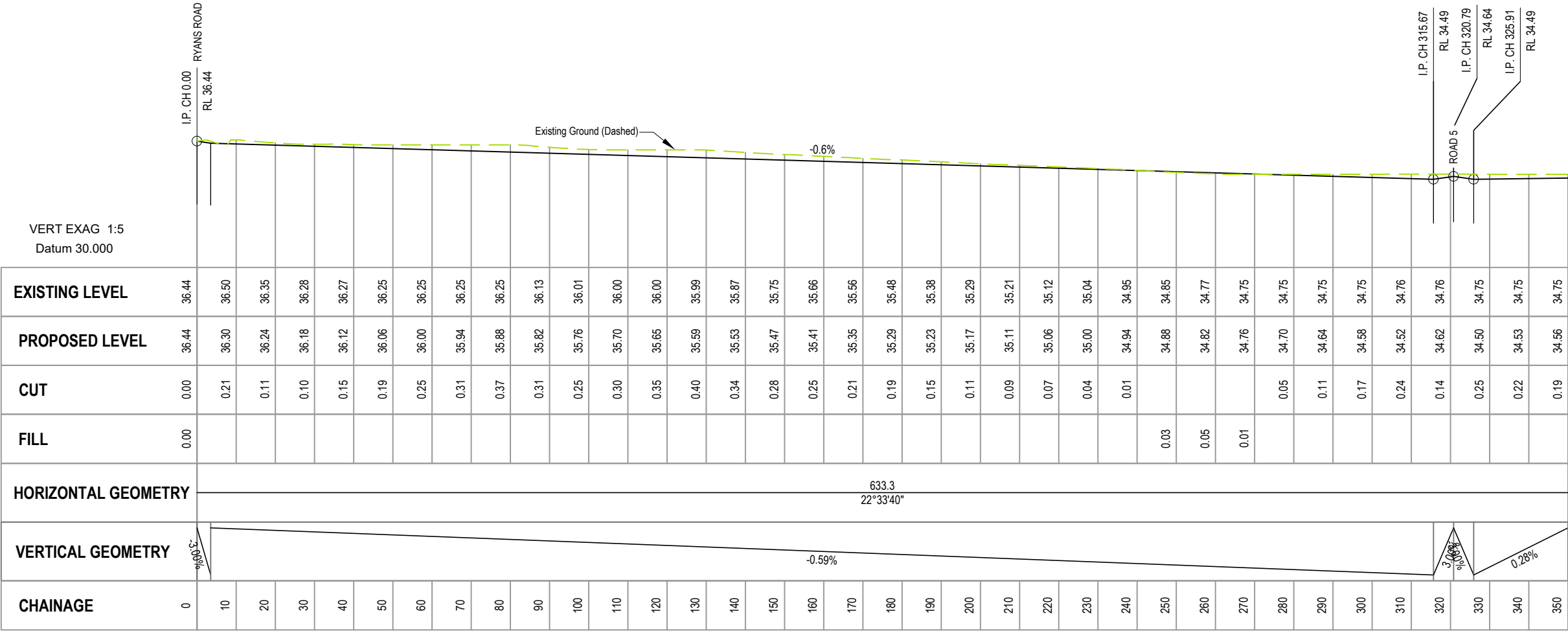
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

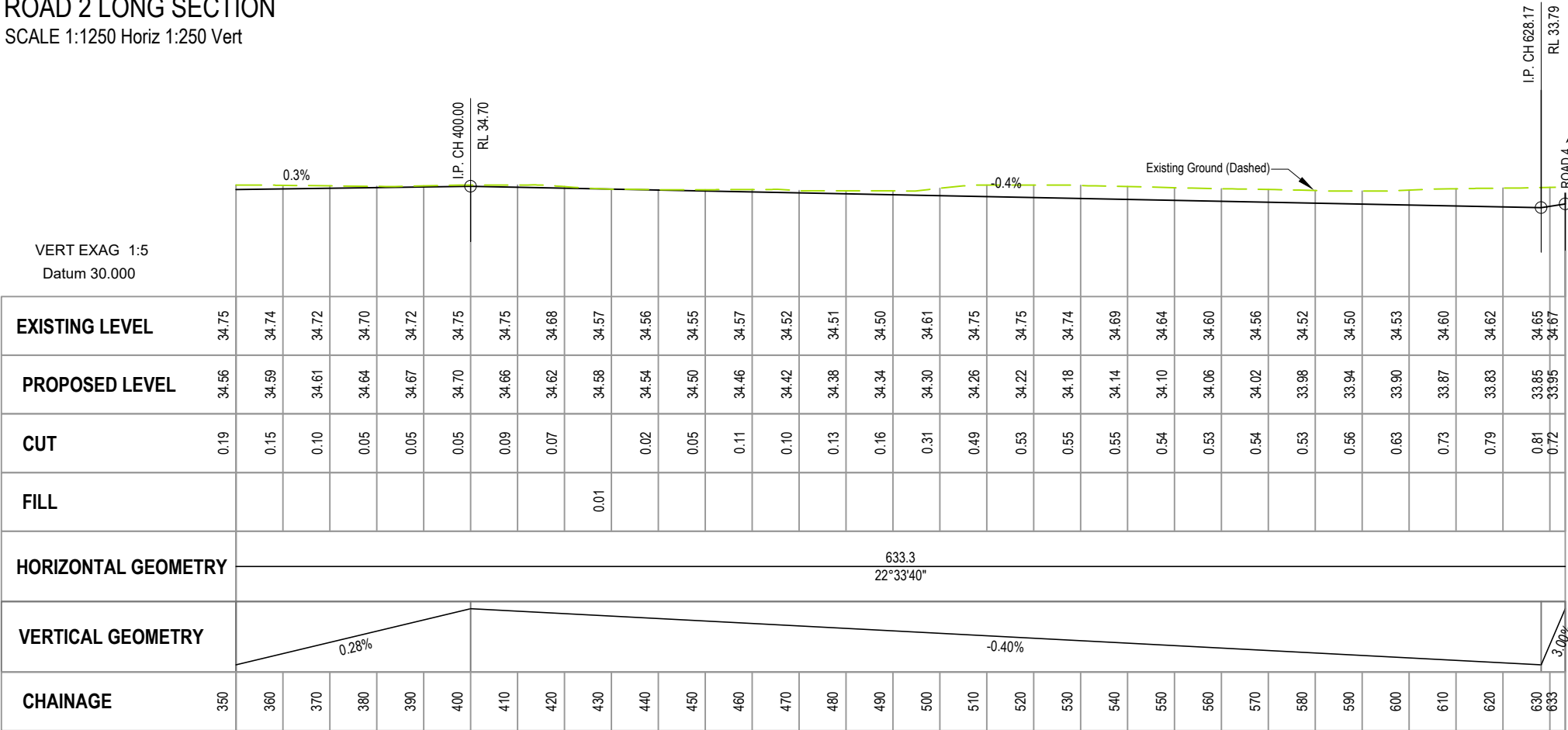
ROAD 1 LONGSECTION

STATUS	SCALE	SIZE
FOR APPROVAL	AS SHOWN	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD315	A



ROAD 2 LONG SECTION
SCALE 1:1250 Horiz 1:250 Vert



ROAD 2 LONG SECTION
SCALE 1:1250 Horiz 1:250 Vert

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REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL

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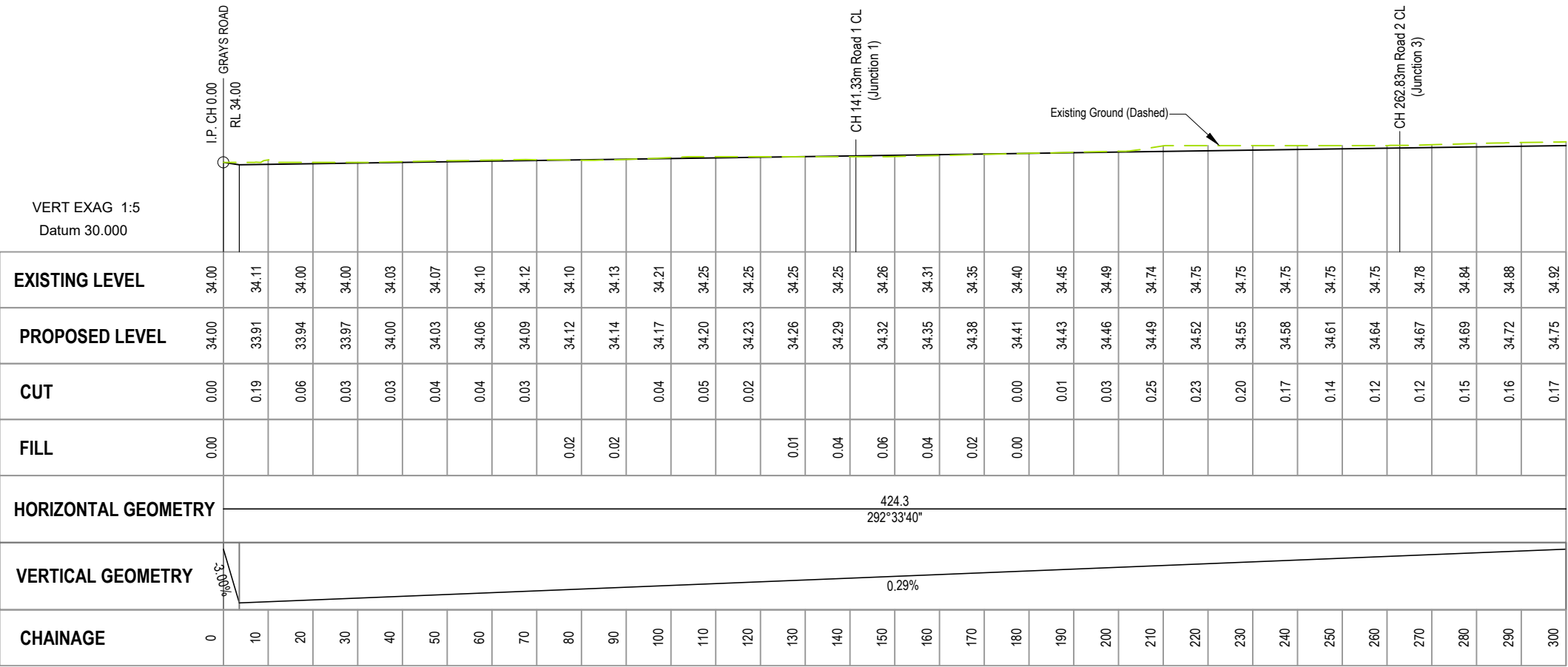
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

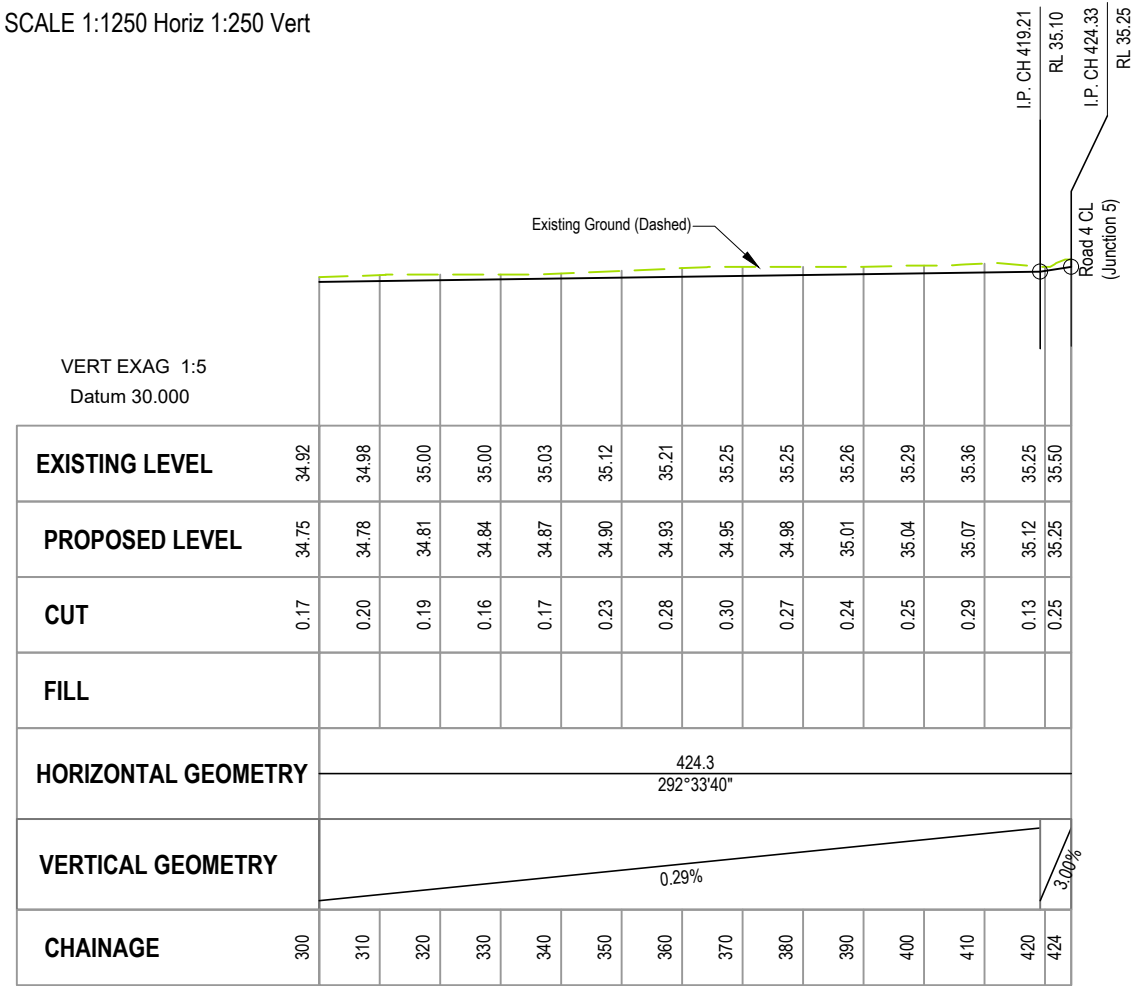
ROAD 2 LONGSECTION

STATUS	SCALE	SIZE
FOR APPROVAL	AS SHOWN	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD316	A



ROAD 3 LONG SECTION
SCALE 1:1250 Horiz 1:250 Vert



ROAD 3 LONG SECTION
SCALE 1:1250 Horiz 1:250 Vert

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REV	DATE	REVISION DETAILS	ISSUED
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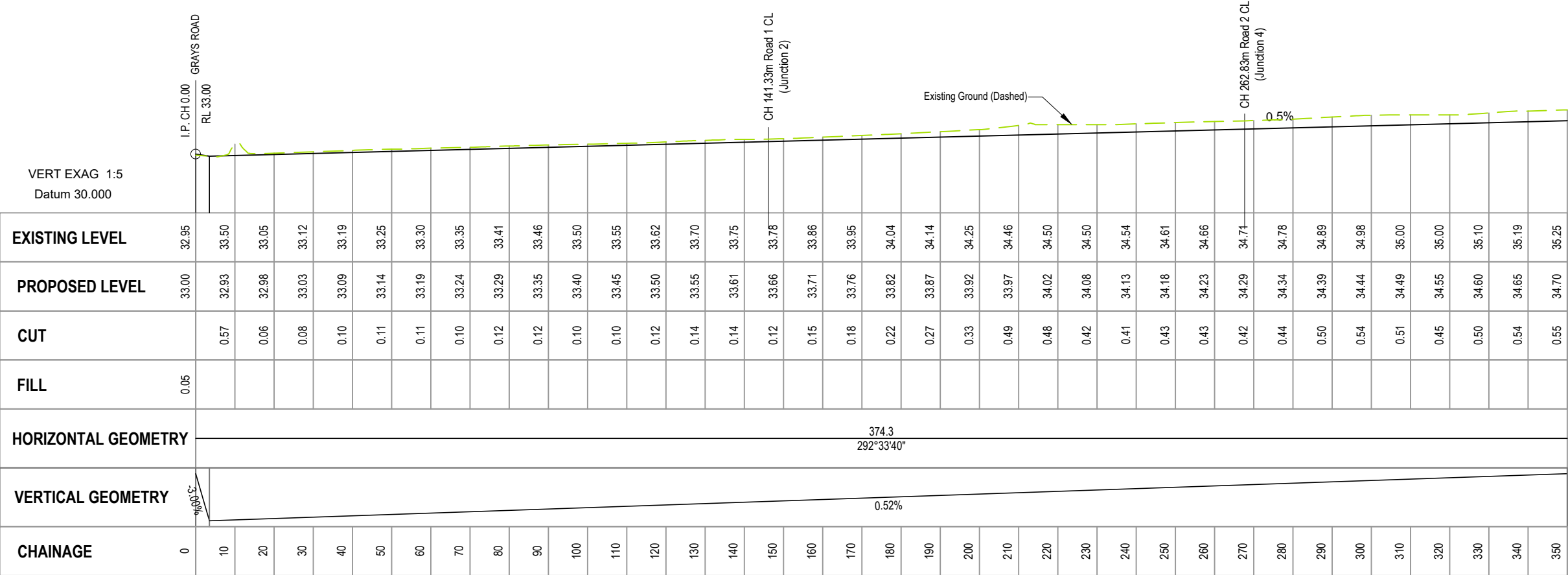
104 RYANS ROAD, HAREWOOD

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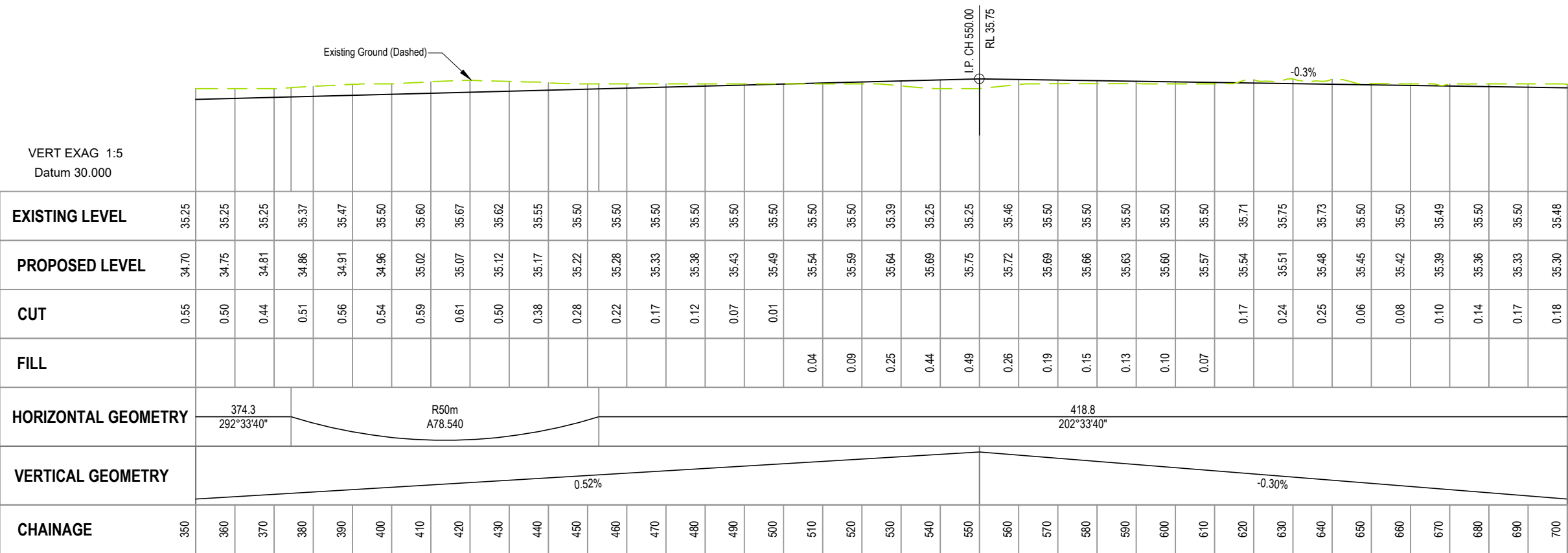
ROAD 3 LONGSECTION

STATUS	SCALE	SIZE
FOR APPROVAL	AS SHOWN	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD317	A



ROAD 4 LONG SECTION
SCALE 1:1250 Horiz 1:250 Vert



ROAD 4 LONG SECTION
SCALE 1:1250 Horiz 1:250 Vert

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REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL

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PROJECT

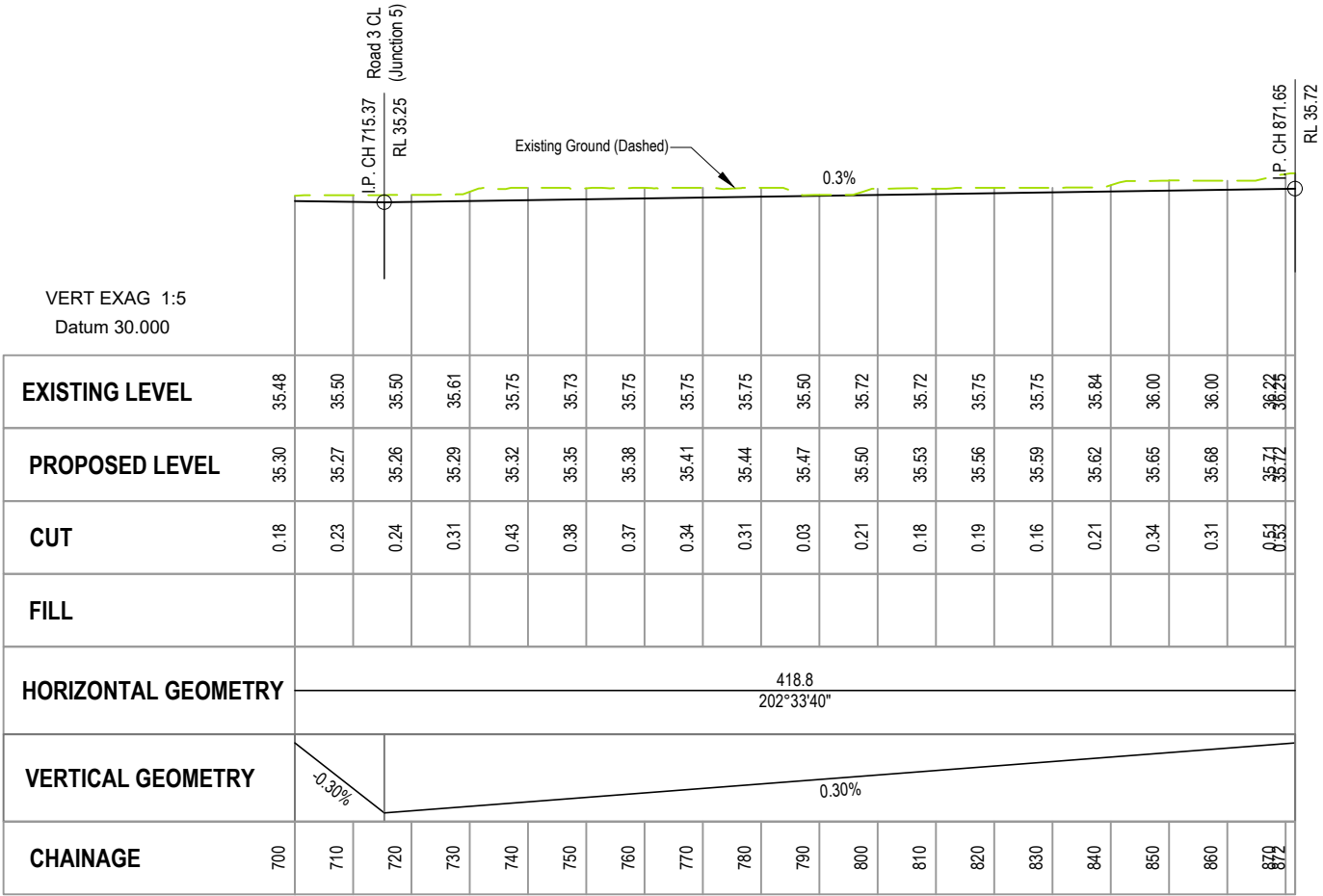
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

ROAD 4 LONGSECTION
(SHEET 1 OF 2)

STATUS	SCALE	SIZE
FOR APPROVAL	AS SHOWN	A3


PROJECT	DRAWING NO	REVISION
1252	RC-RD318	A



ROAD 4 LONG SECTION
SCALE 1:1250 Horiz 1:250 Vert

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REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL



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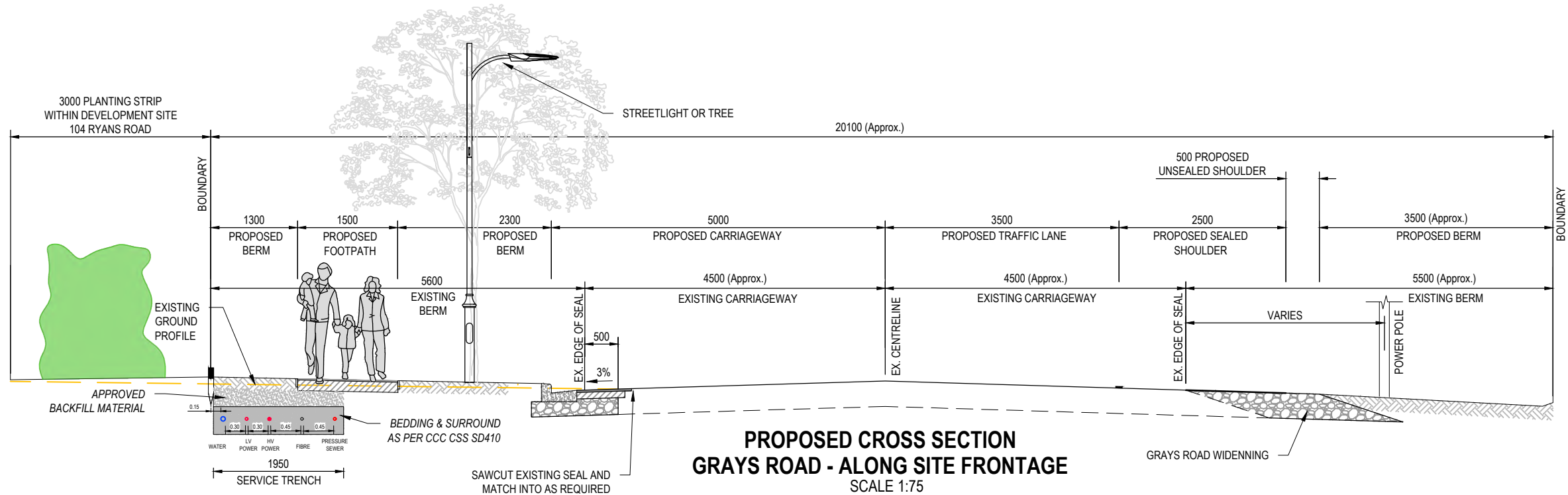
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

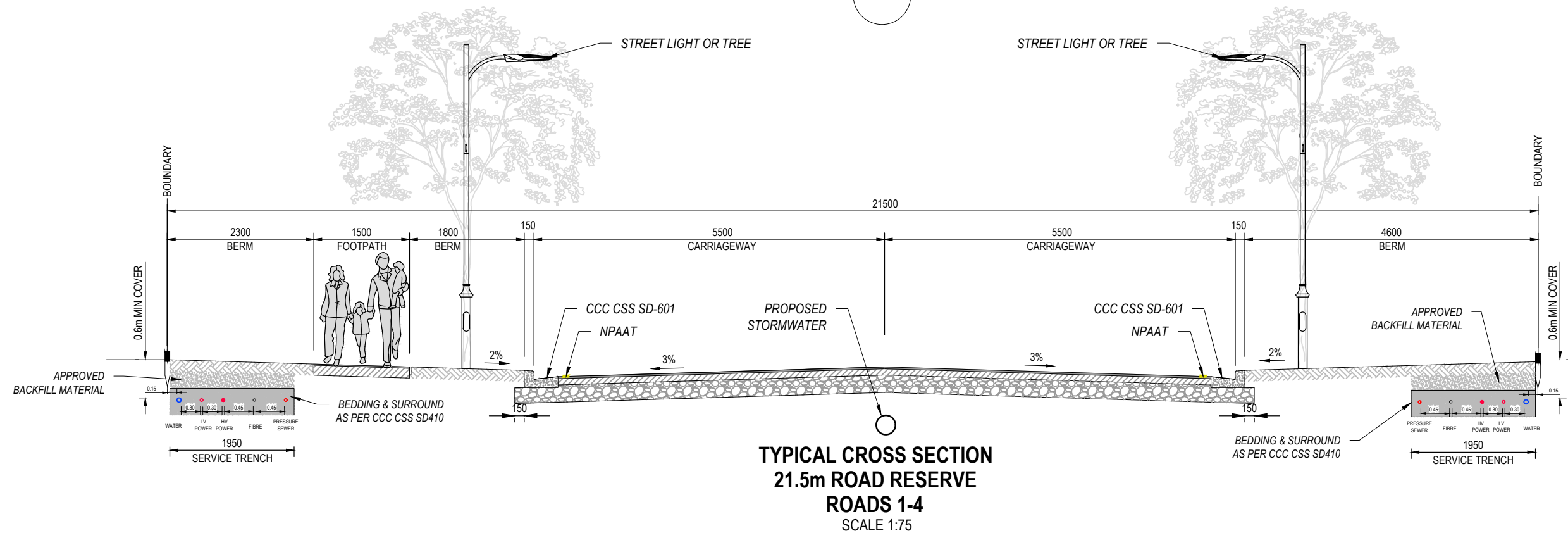
ROAD 4 LONGSECTION
(SHEET 2 OF 2)

STATUS	SCALE	SIZE
FOR APPROVAL	AS SHOWN	A3

PROJECT	DRAWING NO	REVISION
1252	RC-RD319	A



SECTION C-C



SECTION D-D

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104 RYANS ROAD
HAREWOOD
CHRISTCHURCH

PROJECT

RYANS ROAD
INDUSTRIAL PARK



REV	DATE	REVISION DETAILS	ISSUED
B	09/08/25	GENERAL REVISIONS	TL
A	25/02/25	FOR APPROVAL	TL

DRAWING TITLE

PROPOSED ROADING
TYPICAL CROSS SECTIONS

STATUS

FOR APPROVAL

SCALE

As Shown

SIZE

A3

PROJECT NO

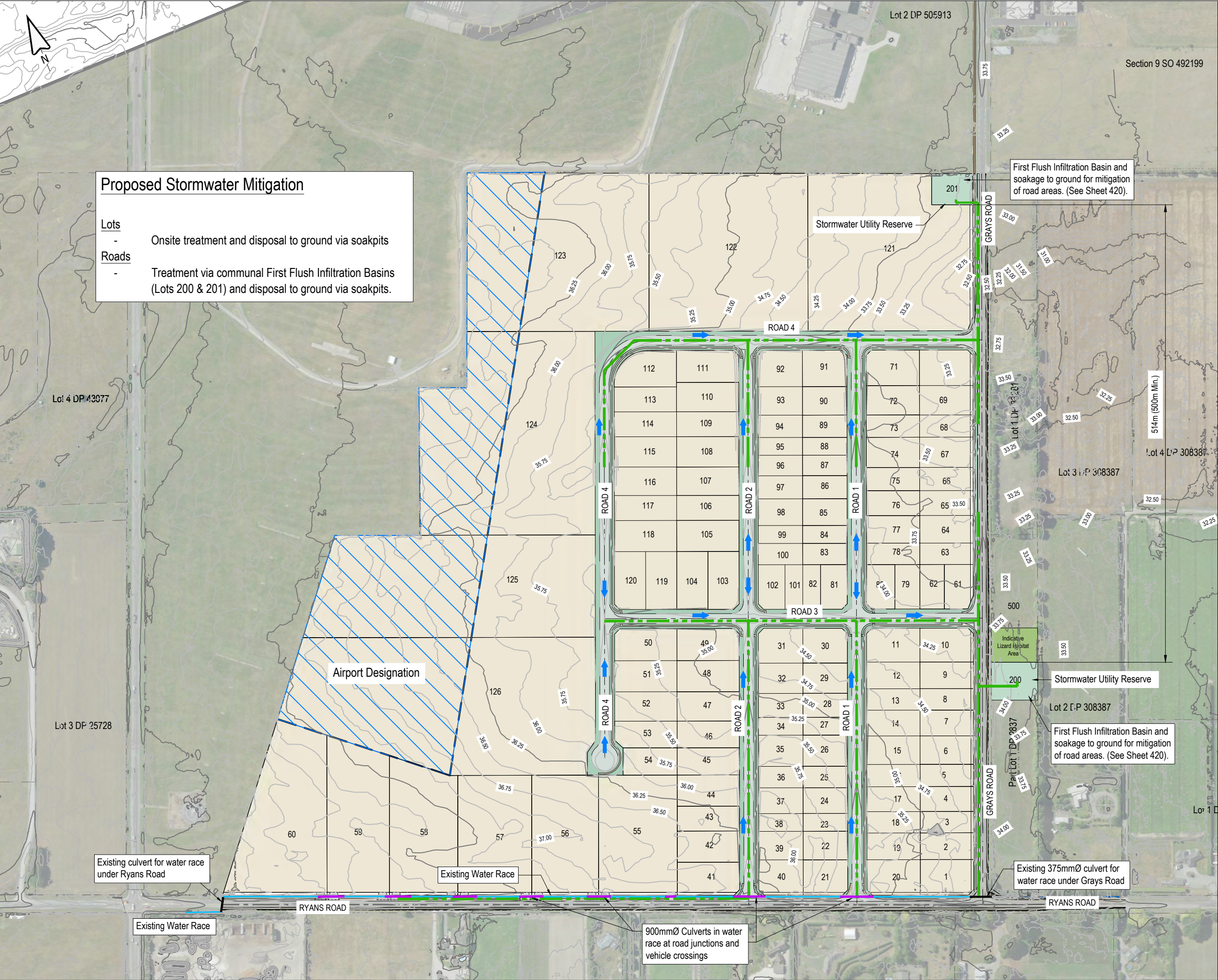
1252

DRAWING NO

RC-RD321

REVISION

B



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NOTES: STORMWATER

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CCC IDS AND CSS PARTS 1-7.
- MINIMUM CLEARANCE TO OTHER SERVICES TO BE AS PER IDS PART 9: UTILITIES TABLE 1.
- PIPE SIZES AND DEVICES TO BE CONFIRMED AT DETAILED DESIGN STAGE.
- PIPE MATERIALS AS PER CCC SUBDIVISION BULLETIN 25. 225Ø-300Ø TO BE uPVC, 375Ø UPWARDS TO BE CONCRETE RCRRJ C4 UNLESS OTHERWISE STATED.
- LOCATION OF EXISTING SERVICES TO BE CONFIRMED BY RELEVANT SERVICE PROVIDERS ON SITE, PRIOR TO UNDERTAKING ANY EXCAVATIONS.
- BACKFILLING AND BEDDING REQUIREMENTS AS PER CCC CODE OF PRACTICE.

LEGEND:

- WATER RACE CULVERT
- - - INDICATIVE STORMWATER LINES
- ➔ DIRECTION OF OVERLAND FLOW

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	06/08/25	SW REVISIONS	TL
C	07/08/25	MINOR REVISION	TL

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PROJECT

104 RYANS ROAD, HAREWOOD

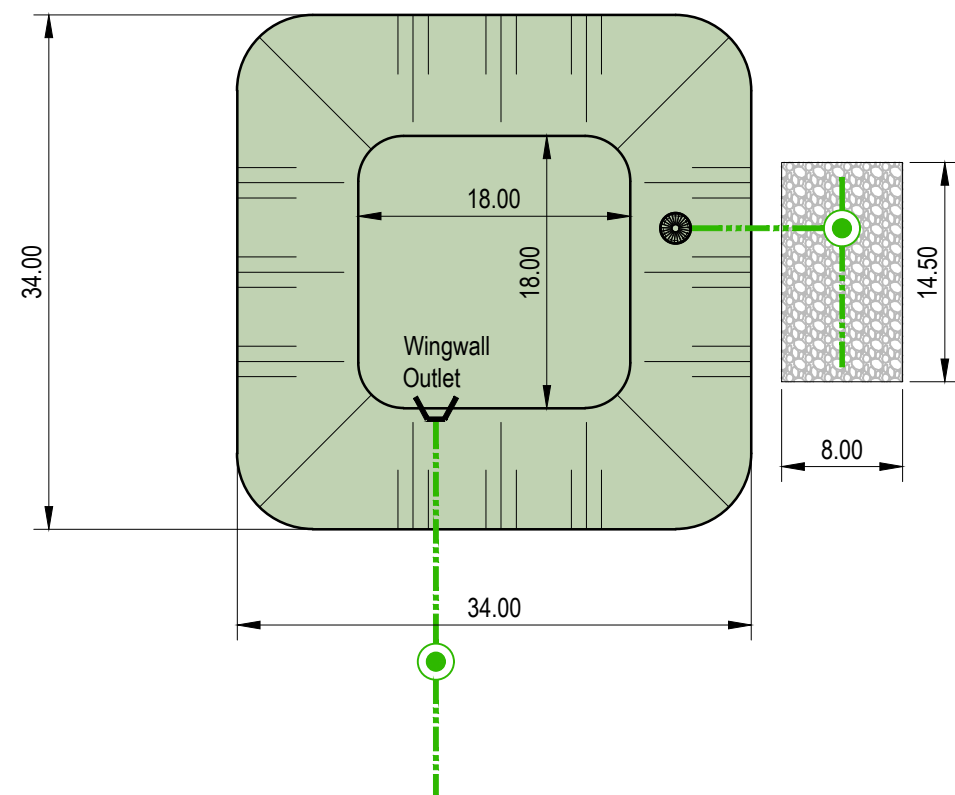
DRAWING TITLE

PROPOSED STORMWATER SERVICING

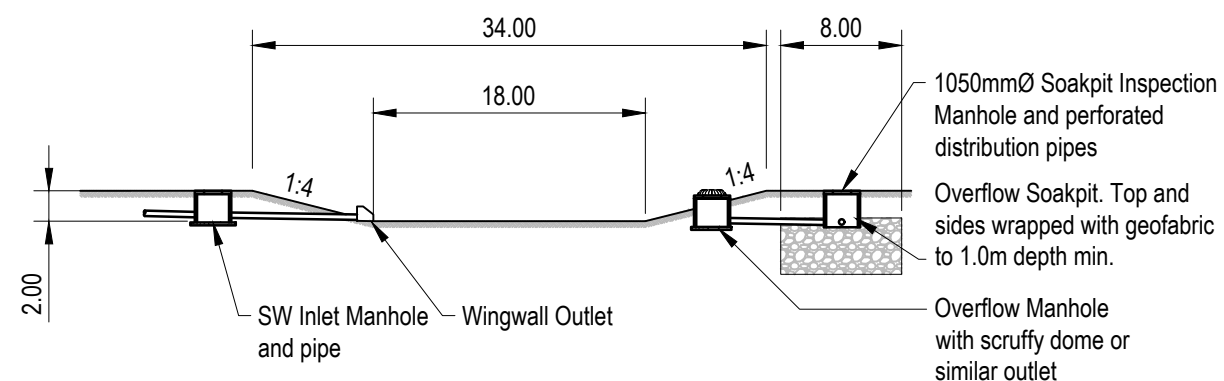
STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-SW400	C

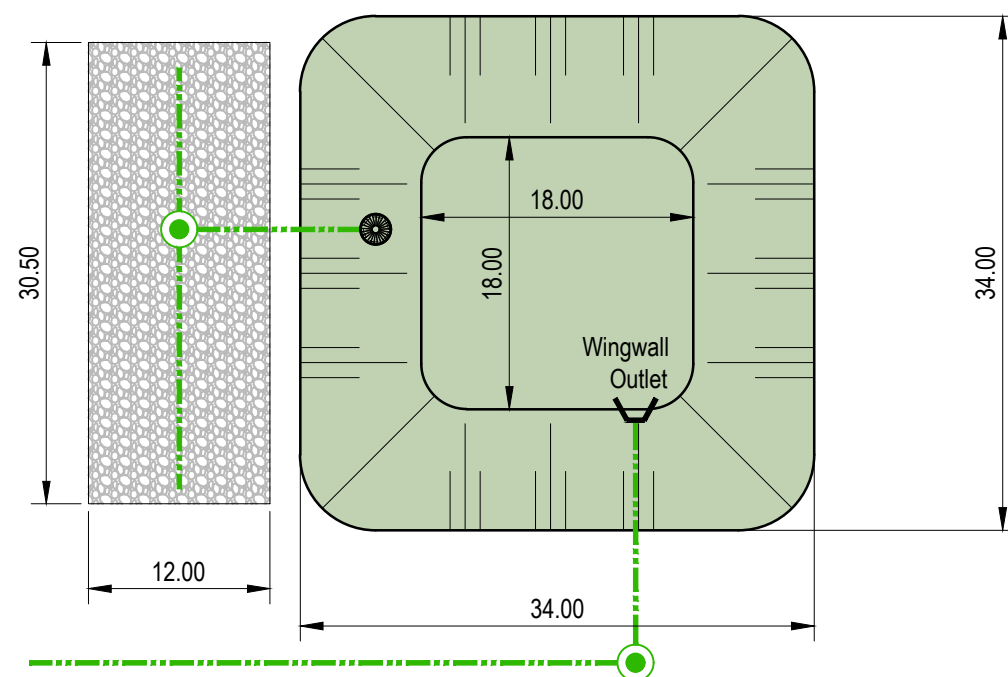
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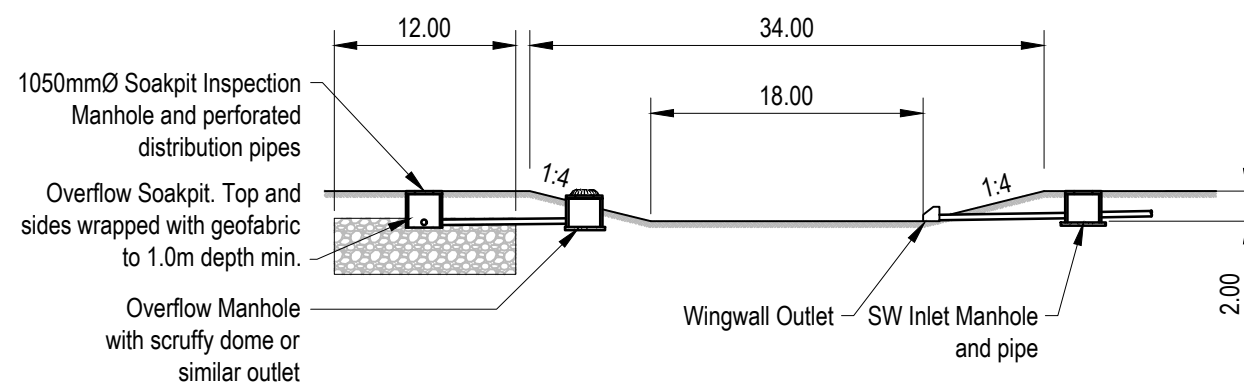
FIRST FLUSH INFILTRATION BASIN LOT 201
PLAN



FIRST FLUSH INFILTRATION BASIN LOT 201
CROSS SECTION



FIRST FLUSH INFILTRATION BASIN LOT 200
PLAN



FIRST FLUSH INFILTRATION BASIN LOT 200
CROSS SECTION

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	06/08/25	SOAKPIT REVISIONS	TL



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PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
TYPICAL STORMWATER
BASIN DETAILS

STATUS
FOR APPROVAL

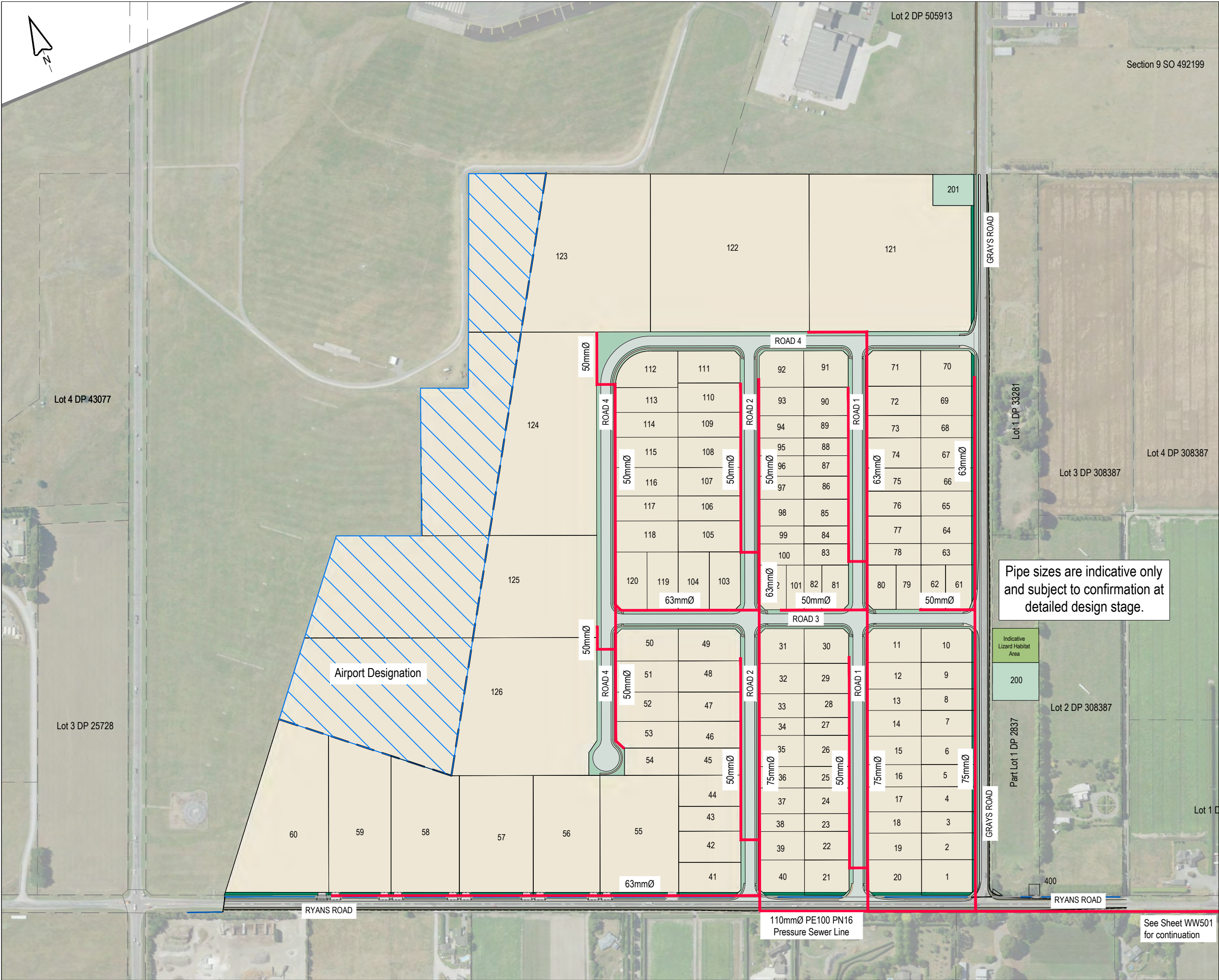
SCALE
1:500

SIZE
A3

PROJECT
1252

DRAWING NO
RC-SW420

REVISION
B



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Section 9 SO 492199

Lot 2 DP 505913

Lot 4 DP 43077

Lot 3 DP 25728

Lot 1 DP 33281

Lot 3 DP 308387

Lot 4 DP 308387

Lot 2 DP 308387

Lot 1 DP 2837

Grays Road

Ryans Road

110mmØ PE100 PN16 Pressure Sewer Line

See Sheet WW501 for continuation

Indicative Lizard Habitat Area

200

400

201

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NOTES: LOW PRESSURE SEWER

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CCC IDS AND CSS PARTS 1-7.
- MINIMUM CLEARANCE TO OTHER SERVICES TO BE AS PER IDS PART 9: UTILITIES TABLE 1.
- MINIMUM COVER FOR MAINS WITHIN CARRIAGEWAY TO BE 750mm, AND TO COMPLY WITH "CODE OF PRACTICE FOR WORKING ON THE ROAD".
- WASTEWATER TEES, VALVES, FLUSHING POINTS, BOUNDARY KITS etc. TO BE INSTALLED IN ACCORDANCE WITH CCC IDS AND CSS REQUIREMENTS. NOT SHOWN ON PLANS.
- PIPE SIZING TO BE DETERMINED AT DETAILED ENGINEERING STAGE.
- LOCATION OF EXISTING SERVICES TO BE CONFIRMED BY RELEVANT SERVICE PROVIDERS ON SITE, PRIOR TO UNDERTAKING ANY EXCAVATIONS.

LEGEND:

INDICATIVE LOW PRESSURE WASTEWATER LINES

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/24	MINOR REVISIONS	TL

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PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
PROPOSED WASTEWATER
SERVICING - LOW PRESSURE
SEWER (SHEET 1 OF 2)

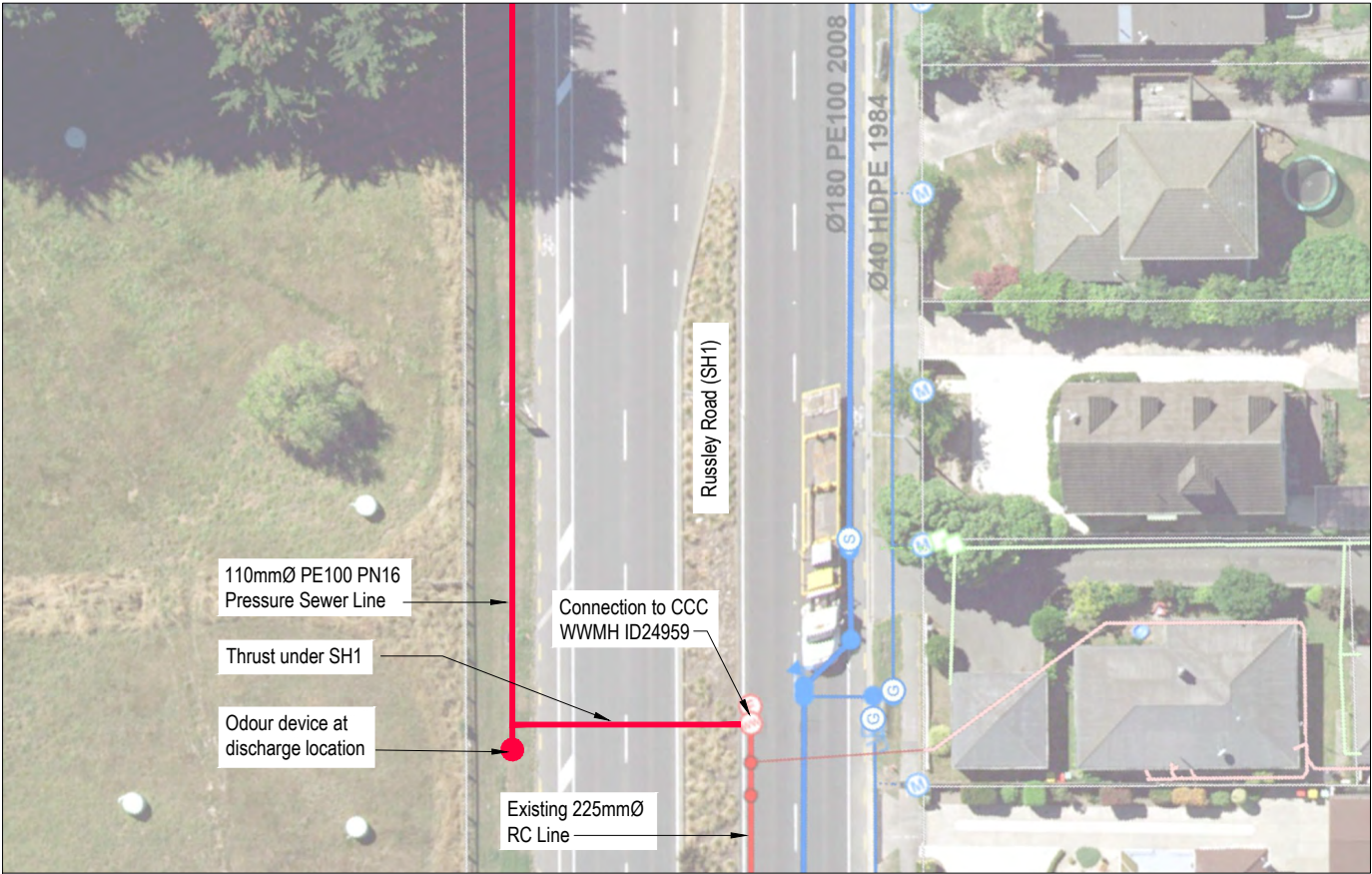
STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-WW500	B

Pipe sizes are indicative only and subject to confirmation at detailed design stage.



Scale 1:4000 (A3)



Scale 1:500 (A3)

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NOTES: LOW PRESSURE SEWER

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CCC IDS AND CSS PARTS 1-7.
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- WASTEWATER TEES, VALVES, FLUSHING POINTS, BOUNDARY KITS etc. TO BE INSTALLED IN ACCORDANCE WITH CCC IDS AND CSS REQUIREMENTS. NOT SHOWN ON PLANS.
- PIPE SIZING TO BE DETERMINED AT DETAILED ENGINEERING STAGE.
- LOCATION OF EXISTING SERVICES TO BE CONFIRMED BY RELEVANT SERVICE PROVIDERS ON SITE, PRIOR TO UNDERTAKING ANY EXCAVATIONS.

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL
B	12/08/25	MINOR REVISIONS	TL

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PROJECT

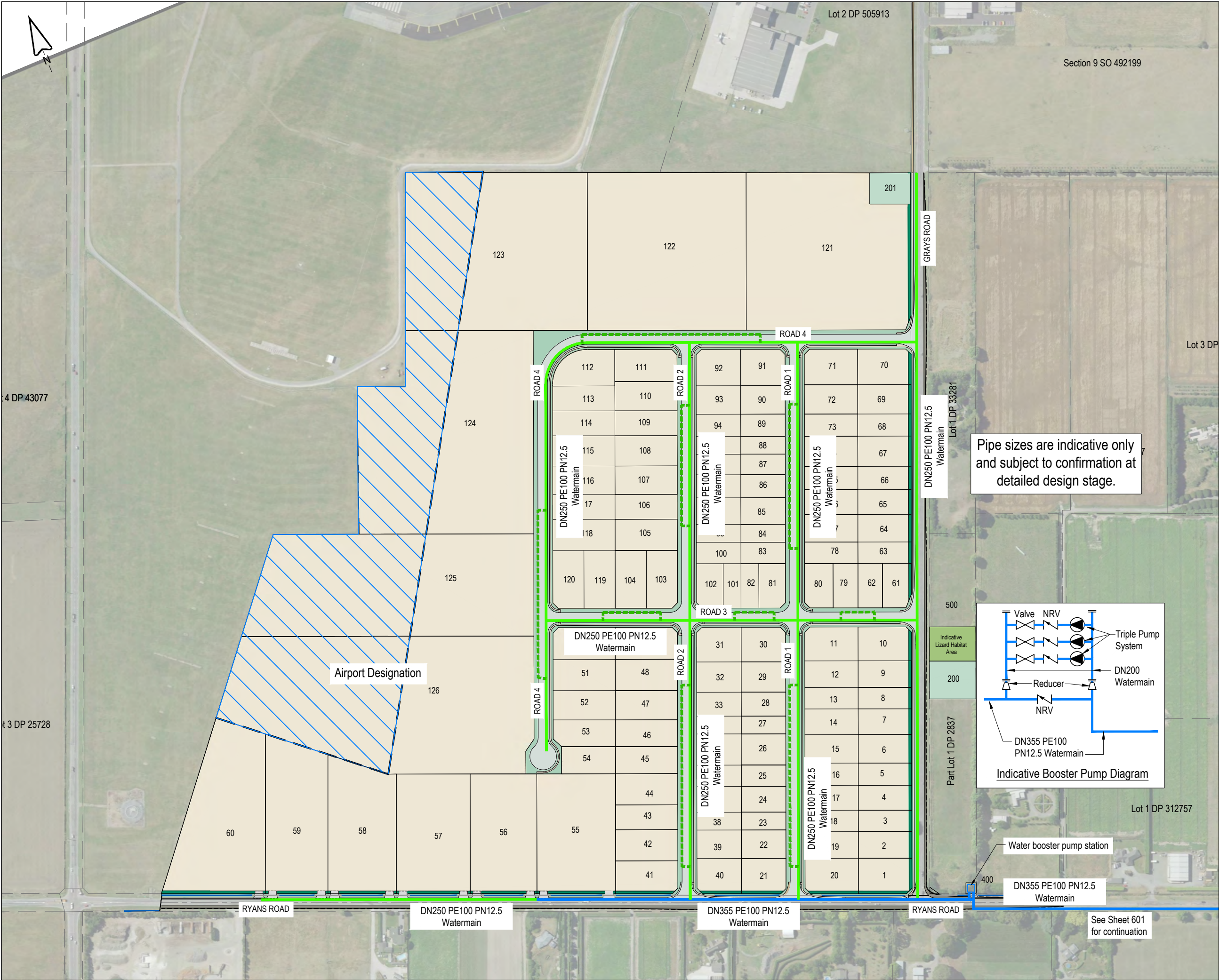
104 RYANS ROAD, HAREWOOD

DRAWING TITLE

PROPOSED WASTEWATER
SERVICING - LOW PRESSURE
SEWER (SHEET 2 OF 2)

STATUS	SCALE	SIZE
FOR APPROVAL	AS SHOWN	A3

PROJECT	DRAWING NO	REVISION
1252	RC-WW501	B



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NOTES: WATER RETICULATION

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CCC IDS AND CSS PARTS 1-7.
- MINIMUM CLEARANCE TO OTHER SERVICES TO BE AS PER IDS PART 9: UTILITIES TABLE 1.
- LOCATION OF EXISTING SERVICES TO BE CONFIRMED BY RELEVANT SERVICE PROVIDERS ON SITE, PRIOR TO UNDERTAKING ANY EXCAVATIONS.
- MINIMUM COVER FOR MAINS WITHIN CARRIAGEWAY TO BE 750mm, AND TO COMPLY WITH "CODE OF PRACTICE FOR WORKING ON THE ROAD".
- ANY LAYING OF PIPE MAINS OR CONNECTIONS TO THE EXISTING COUNCIL WATER RETICULATION SHALL BE MADE BY A CCC AUTHORISED WATER SUPPLY INSTALLER.
- INDICATIVE PIPE MATERIALS
 - PRINCIPAL MAINS - PE100 PN12.5
 - SUBMAINS - 630D MDPE 80B PN 12.5 (NOT SHOWN)
- WATER TEES, VALVES, HYDRANTS ETC. TO BE INSTALLED IN ACCORDANCE WITH CCC IDS, CSS AND SNZ PAS 4509:2008 REQUIREMENTS. NOT SHOWN ON PLANS.
- PIPE SIZING AND BOOSTER PUMP REQUIREMENTS TO BE DETERMINED AT DETAILED ENGINEERING STAGE.

LEGEND:

- DN355mm dia PE100 PN125 WATERMAIN
- DN250mm dia PE100 PN12.5 WATERMAIN
- DN63mm DIA PE100 PN12.5 WATER SUBMAIN

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL

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PROJECT
104 RYANS ROAD, HAREWOOD

DRAWING TITLE
PROPOSED WATER SERVICING (SHEET 1 OF 2)

STATUS	SCALE	SIZE
FOR APPROVAL	1:4000	A3

PROJECT	DRAWING NO	REVISION
1252	RC-WS600	A



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NOTES: WATER RETICULATION

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CCC IDS AND CSS PARTS 1-7.
- MINIMUM CLEARANCE TO OTHER SERVICES TO BE AS PER IDS PART 9: UTILITIES TABLE 1.
- LOCATION OF EXISTING SERVICES TO BE CONFIRMED BY RELEVANT SERVICE PROVIDERS ON SITE, PRIOR TO UNDERTAKING ANY EXCAVATIONS.
- MINIMUM COVER FOR MAINS WITHIN CARRIAGEWAY TO BE 750mm, AND TO COMPLY WITH "CODE OF PRACTICE FOR WORKING ON THE ROAD ".
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- INDICATIVE PIPE MATERIALS
 - PRINCIPAL MAINS - PE100 PN12.5
 - SUBMAINS - 630D MDPE 80B PN 12.5 (NOT SHOWN)
- WATER TEES, VALVES, HYDRANTS ETC. TO BE INSTALLED IN ACCORDANCE WITH CCC IDS, CSS AND SNZ PAS 4509:2008 REQUIREMENTS. NOT SHOWN ON PLANS.
- PIPE SIZING AND BOOSTER PUMP REQUIREMENTS TO BE DETERMINED AT DETAILED ENGINEERING STAGE.

LEGEND:

- DN355mm dia PE100 PN125 WATERMAIN
- DN250mm dia PE100 PN12.5 WATERMAIN

REV	DATE	REVISION DETAILS	ISSUED
A	25/02/25	FOR APPROVAL	TL

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PROJECT

104 RYANS ROAD, HAREWOOD

DRAWING TITLE

PROPOSED WATER SERVICING
(SHEET 2 OF 2)

STATUS	SCALE	SIZE
FOR APPROVAL	AS SHOWN	A3

PROJECT	DRAWING NO	REVISION
1252	RC-WS601	A

Scale 1:1000 (A3)

Scale 1:4000 (A3)