

Engineering Design, Connetics Ltd

DOCUMENT TRANSMITTAL SHEET

PO Box 2237 Christchurch New Zealand. Ph. (03) 353 7200

ORN1027287

DRAWING ISSUE DETAILS

DATE | 16/03/26

[illegible]

Notes:

ACCEPTED

by **Mark Williams** on: 31 03 2026, 01:59 pm

Orion

555 BIRCHS ROAD - STAGE 2

**JOB No.**

SHEET

RESIDENTIAL SUBDIVISION

107836

1 OF 1

WORKS INSTRUCTION SHEET

PO Box 2237 Christchurch New Zealand. Ph. (03) 353 7200

WORK DESCRIPTION:

In order to provide electrical reticulation to 555 Birchs Road Stage 2, refer to Connetics working drawings 107836, HV, LV & SL schematics

1. Install a full kiosk fitted with a 200kVA transformer
2. Lay 11kV and 400V cables
3. Carry out 11kV & 400V cable thru joints
4. Terminate all cables, complete test certificates & label circuits.
5. Liven all Circuits only after clearance from Orion's Contract Manager.
6. Test earthing to ensure compliance.
7. All Work shall comply with Orion NZ Ltd's Design Standards and Specifications
8. Customer service mains to be connected in accordance with the Electrical Safety Regulations.

PREPARED BY: A. Mechen
DATE PREPARED: 16/03/2026
ORION CONTRACT MANAGER Mark Williams
ES NUMBER: ORN1027287
WORK ORDER NUMBER: -

SUBSTATION DETAILS

Size	Switchgear	CCT	Cable			Comments				
			Cable Size	New/Ex	Circuit Destination					
OFF O'REILLY RD LOT 41 - HA1/455										
NEW 3K1T MSU						Install new full kiosk in Orion title site. Fit with a 3K1T MSU, a 200kVA transformer. Earthing to Orion Technical Spec. NW70.59.01				
	Open	51					-	New	-	Install tubes and retainers
	Links	52					185AI 3C 11kV	New	Insulated End Birchs Rd	Terminate and connect new cable, trifurcated to singles. Label circuit destination
	Links	53					185AI 3C 11kV	New/Ex	O'Reilly Rd Lot 13 cct51	Terminate and connect new cable, trifurcated to singles. Label circuit destination
16A	Fuses	54	3-25AI 1C 11kV	New	Local Transformer	Install 25mmAl single HV leads between MSU and TX.				
NEW 800A DIN TYPE LV PANEL			6mm	New		Install 800Amp LV DIN panel. Fit with 630A incomer and 7 outgoing circuits. Install & commission LV monitoring equipment as per NW72.22.22. Install lighting as per NW72.22.20				
Local service	32A fuse						Install local service panel UE2.11.4.			
630A	Open	1					-	-	-	Equip for future cct
630A	355Amp fuses	2					185AI 3C+1 CuNS LV	New	DB Lot 44	Terminate and connect new cable, label circuit destination.
630A	355Amp fuses	3					185AI 3C+1 CuNS LV	New	Off O'Reilly Lot 1 cct2	Terminate and connect new cable, label circuit destination.
630A	630Amp Links	Incomer					4-185Cu 1C NS LV	New	Local Transformer	Fit set of leads between transformer LV bushings and LV panel.
630A	355Amp fuses	4					185AI 3C+1 CuNS LV	New/Ex	Off O'Reilly Lot 1 cct3	Terminate and connect new cable, label circuit destination.
630A	Open	5					185AI 3C+1 CuNS LV	New/Ex	O'Reilly Rd Lot 13 cct4	Terminate and connect new cable, label circuit destination.
630A	355Amp fuses	6					185AI 3C+1 CuNS LV	New	Off O'Reilly Lot 33 cct3	Terminate and connect new cable, label circuit destination.
630A	355Amp fuses	7					185AI 3C+1 CuNS LV	New	DB Lot 39	Terminate and connect new cable, label circuit destination.
	Generator Way	Gen.								Fit Generator spare way cover kit.

Street lighting: Install SL panel as per UE1.1.6 & terminate 6 SL pilots & 1 SL cable

O'REILLY RD LOT 13 - HA1/450

EX 2K1T MSU					Ex full kiosk fit with a 2K1T MSU and a 200kVA transformer.
	Links	51	185AI 3C 11kV	New/Ex	Off O'Reilly Rd Lot 41 cct53
EX 800A DIN TYPE LV PANEL					Ex 800Amp LV DIN panel.
630A	355Amp fuses	3	185AI 3C+1 CuNS LV	New/Ex	Off O'Reilly Lot 33 cct4
630A	355Amp fuses	4	185AI 3C+1 CuNS LV	New/Ex	Off O'Reilly Rd Lot 41 cct5

Notes:



Accepted For Construction

Name:
Position:
Date:



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ISSUE

A

555 BIRCHS ROAD - STAGE 2

RESIDENTIAL SUBDIVISION



JOB No.

107836

Sheet

WIS-1

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DISTRIBUTION CABINET DETAILS

[illegible]**Notes:**

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by Mark Williams on: 31 03 2026, 01:59 pm

Orion

Accepted For Construction

Name:

Position:

Date:

©

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ISSUE

A

555 BIRCHS ROAD - STAGE 2

RESIDENTIAL SUBDIVISION

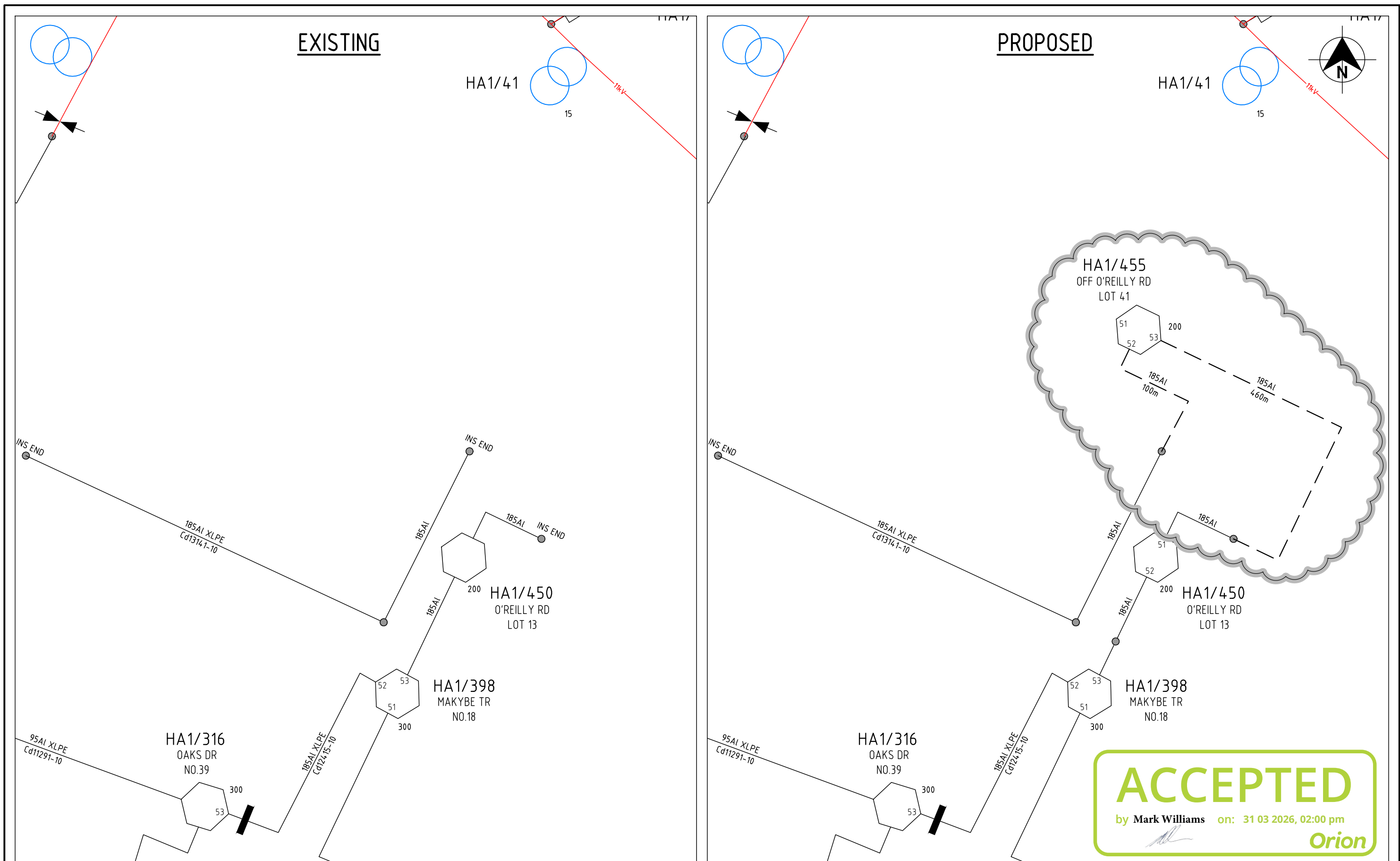


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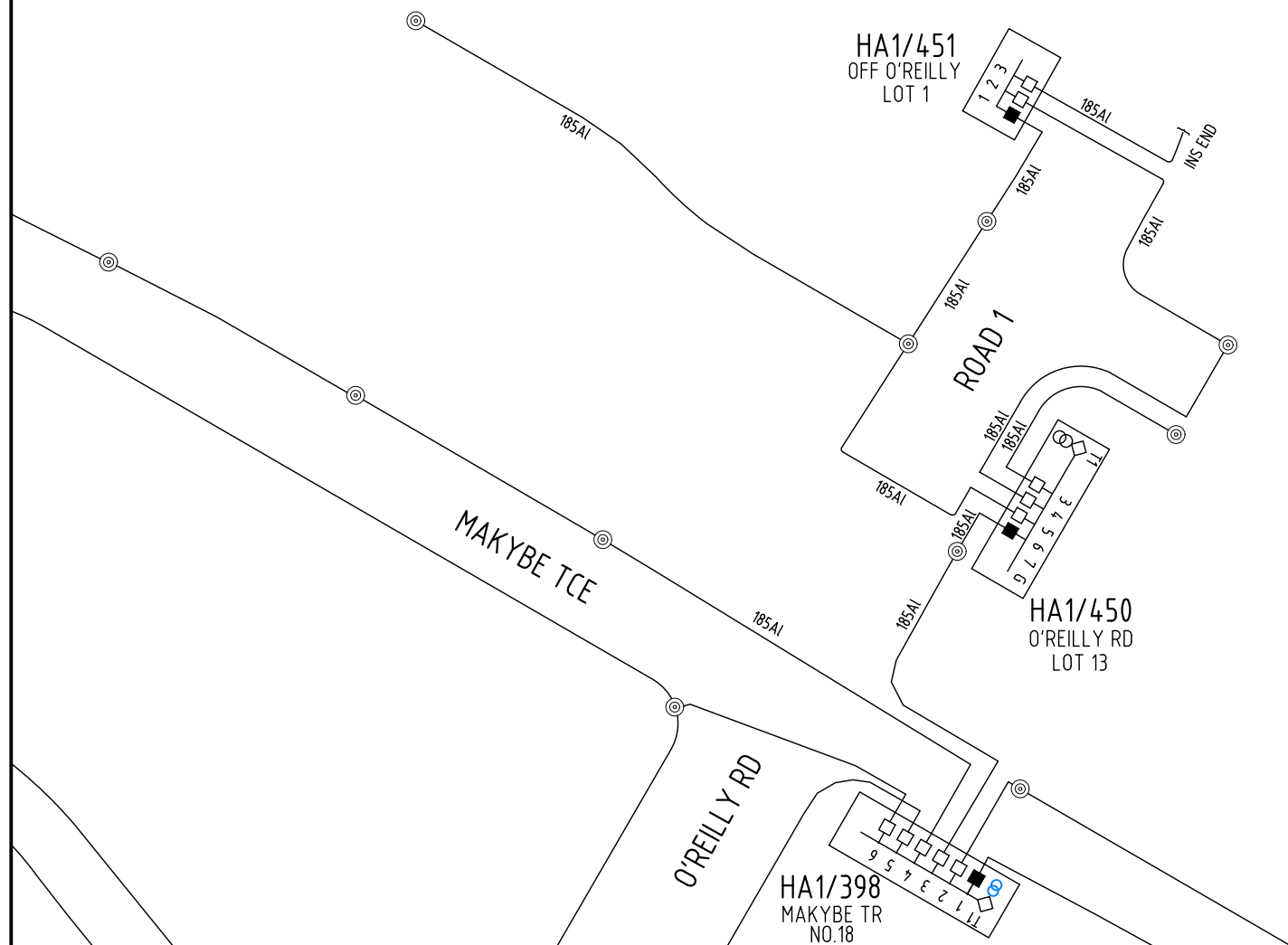
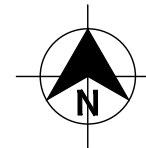
107836

Sheet

WIS-2



ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	555 BIRCHS ROAD – STAGE 2			 ALL WAYS CONNECTING		
A	ORIGINAL ISSUE	16/03/26	A.M.	A.M.	M.O.	DESIGNED	A. MECHEN		27/01/26	RESIDENTIAL SUBDIVISION HV SCHEMATICS					
						DRAWN	A. MECHEN		27/01/26						
						CHECKED	M. OPHIUS		16/03/26						
						APPROVED									
						ORN1027287	 CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A				SCALE(SIZE)	DRAWING NO.	SHEET
													NTS (A3)	107836	HV-1



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by Mark Williams on: 31 03 2026, 02:00 pm
Orion

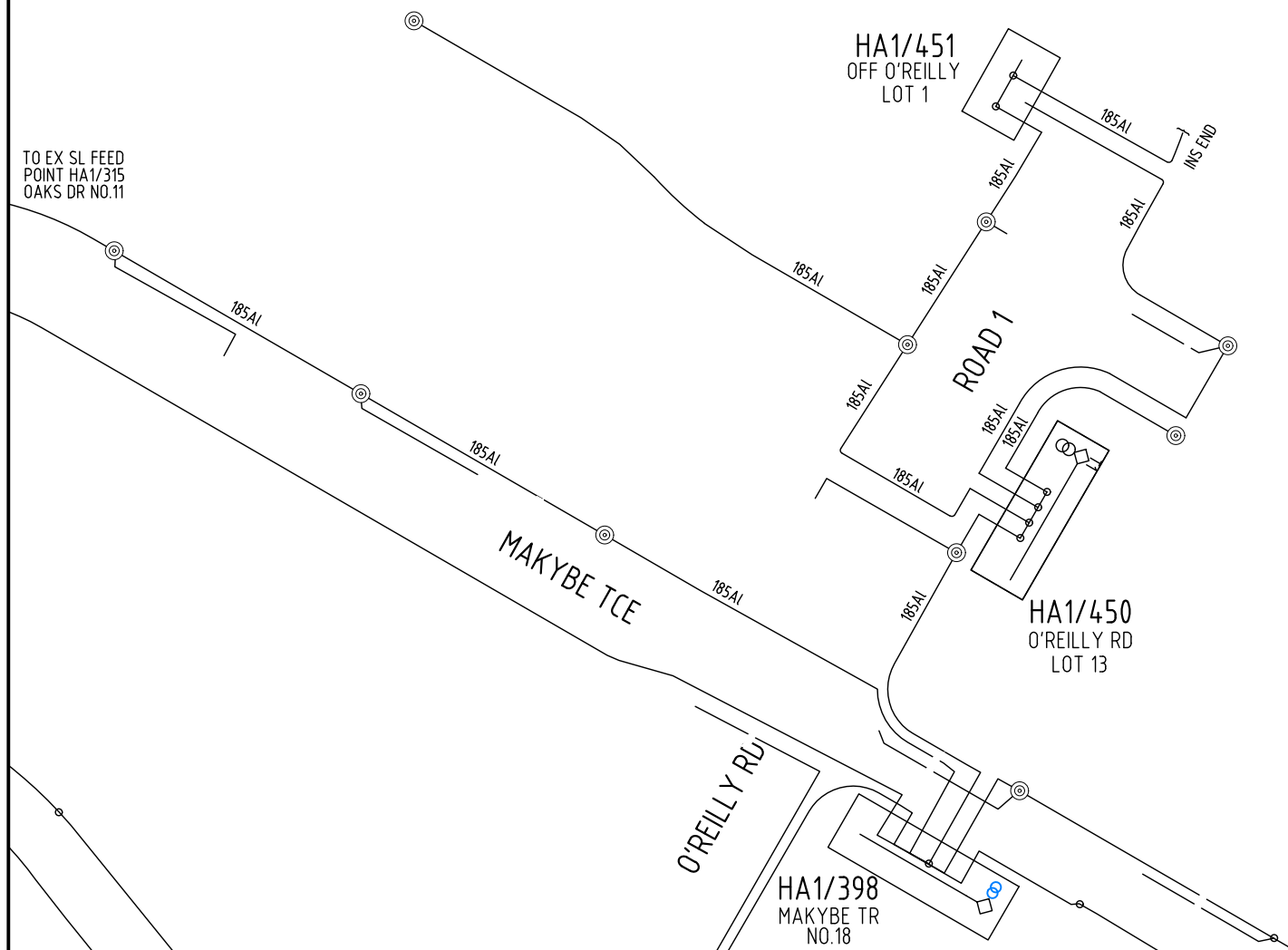
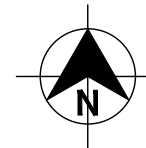
ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	555 BIRCHS ROAD – STAGE 2		 ALL WAYS CONNECTING	
A	ORIGINAL ISSUE	16/03/26	A.M.	A.M.	M.O.	DESIGNED	A. MECHEN		27/01/26				RESIDENTIAL SUBDIVISION LV SCHEMATICS – EXISTING
						DRAWN	A. MECHEN		27/01/26				
						CHECKED	M. OPHIUS		16/03/26				
						APPROVED							
						ORN1027287	 CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A	SCALE(SIZE)		DRAWING NO.	SHEET
										NTS (A3)		107836	LV-1

SITE No: HA1/450

TOTAL EXISTING CONNECTIONS	14
TOTAL PROPOSED CONNECTIONS	+20 = 34



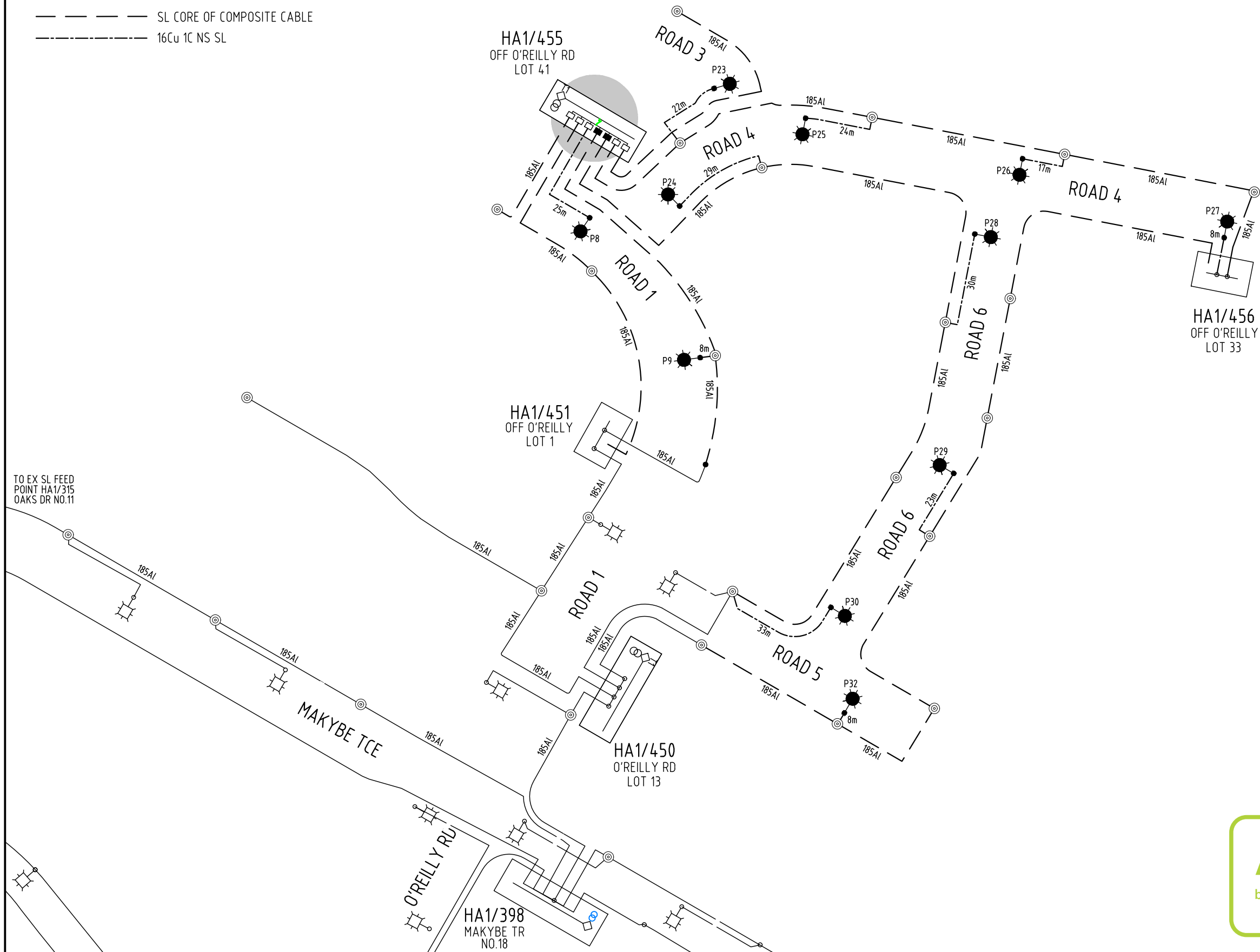
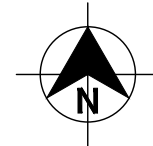
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						DRAWN	A. MECHEN		27/01/26				
						CHECKED	M. OPHIUS		16/03/26				
						APPROVED							
						ORN1027287	 CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A	RESIDENTIAL SUBDIVISION LV SCHEMATICS - PROPOSED	SCALE(SIZE)	DRAWING NO.	SHEET
											NTS (A3)	107836	LV-2



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ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	555 BIRCHS ROAD - STAGE 2			 ALL WAYS CONNECTING		
A	ORIGINAL ISSUE	16/03/26	A.M.	A.M.	M.O.	DESIGNED	A. MECHEN		27/01/26	RESIDENTIAL SUBDIVISION SL SCHEMATICS - EXISTING					
						DRAWN	A. MECHEN		27/01/26						
						CHECKED	M. OPHIUS		16/03/26						
						APPROVED									
						ORN1027287	 CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A				SCALE(SIZE)	DRAWING NO.	SHEET
													NTS (A3)	107836	SL-1

EXISTING CABLE
SL CORE OF COMPOSITE CABLE
16Cu 1C NS SL

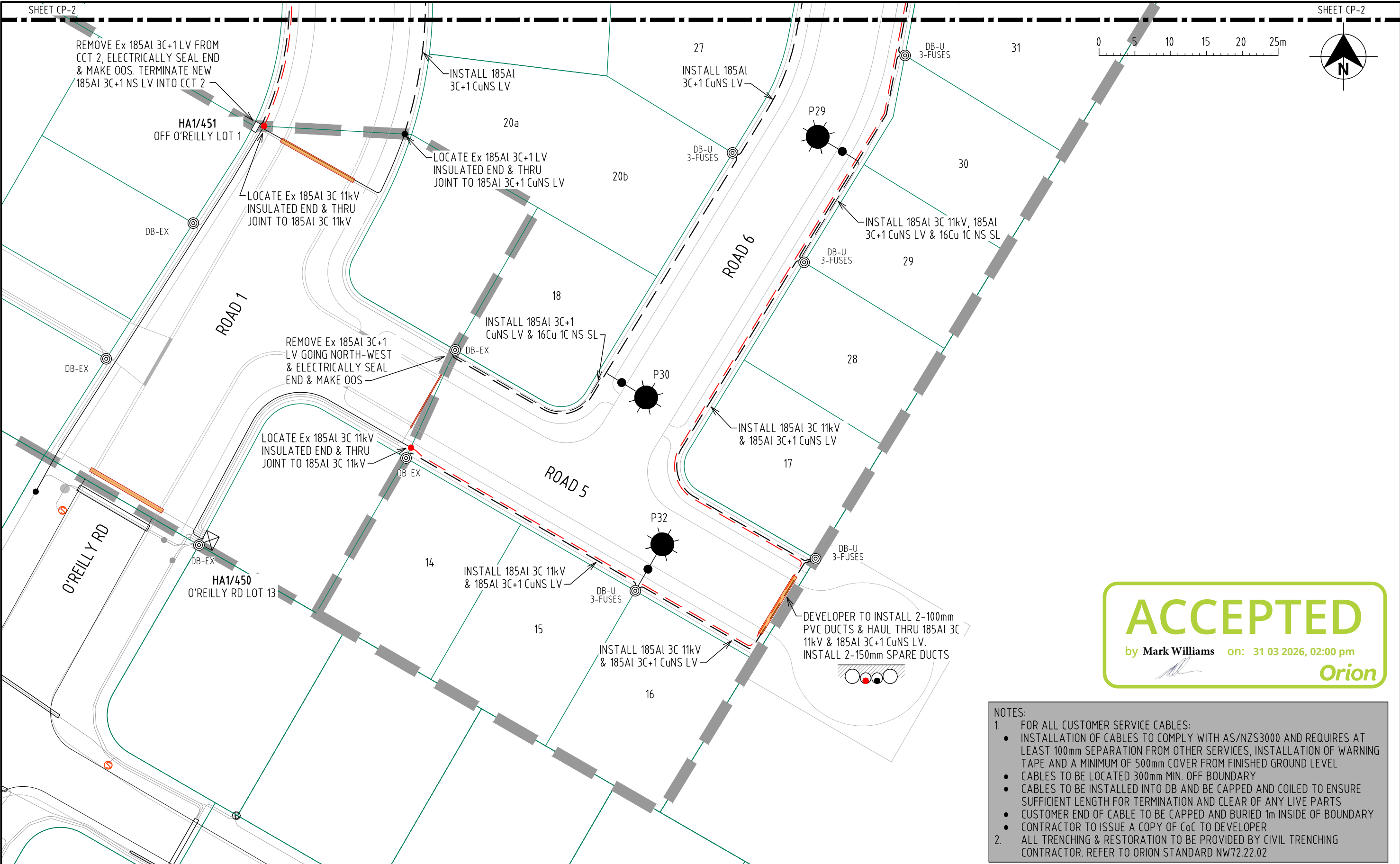


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ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	555 BIRCHS ROAD - STAGE 2			 ALL WAYS CONNECTING		
A	ORIGINAL ISSUE	16/03/26	A.M.	A.M.	M.O.	DESIGNED	A. MECHEN		27/01/26	RESIDENTIAL SUBDIVISION SL SCHEMATICS - PROPOSED					
						DRAWN	A. MECHEN		27/01/26						
						CHECKED	M. OPHIUS		16/03/26						
						APPROVED									
						ORN1027287	 CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A						
										 ALL WAYS CONNECTING					
										SCALE(SIZE)		DRAWING NO.		SHEET	
										NTS (A3)		107836		SL-2	



ACCEPTED
by Mark Williams on: 31 03 2026, 02:00 pm
Orion

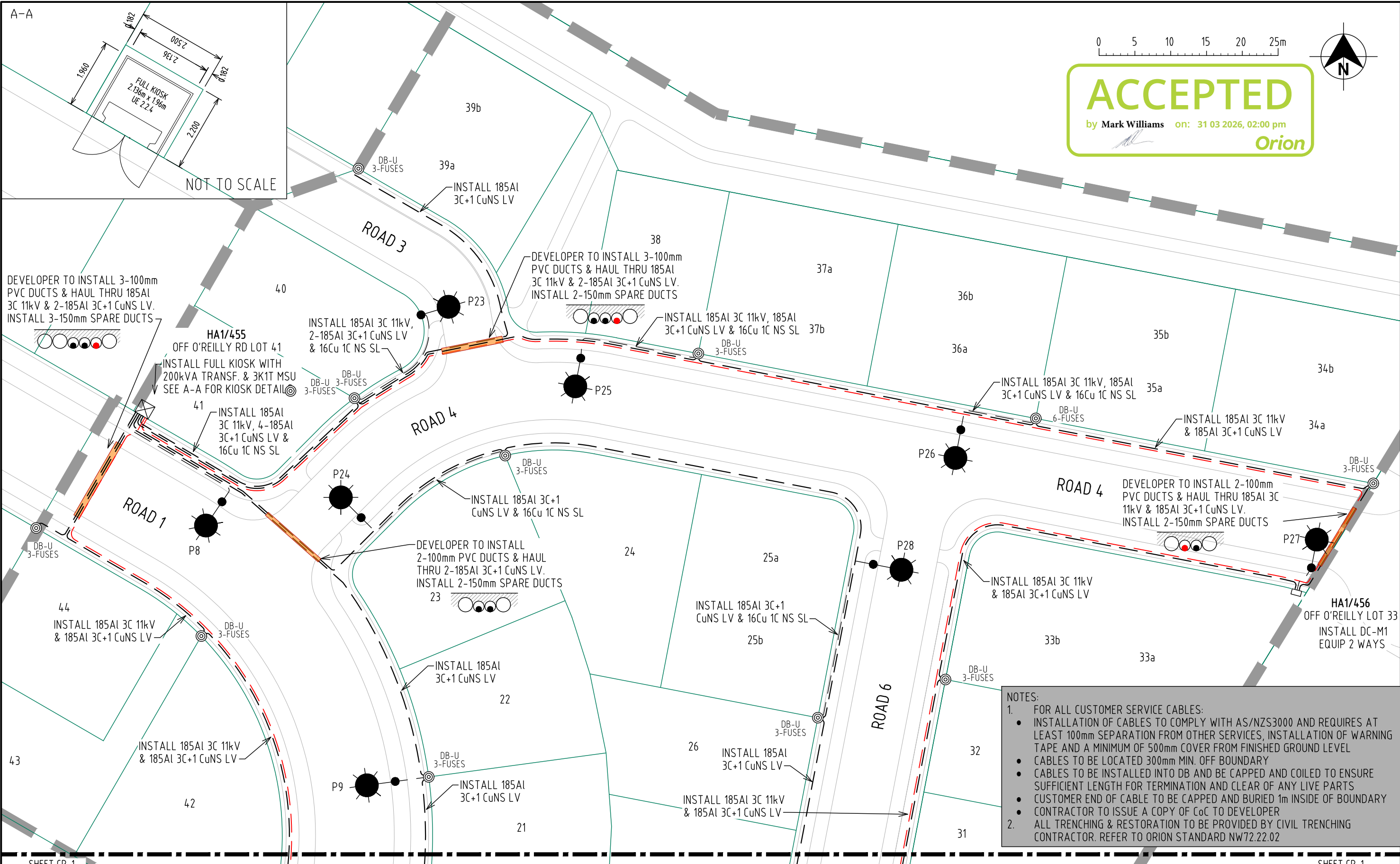
- NOTES:
- FOR ALL CUSTOMER SERVICE CABLES:
 - INSTALLATION OF CABLES TO COMPLY WITH AS/NZS3000 AND REQUIRES AT LEAST 100mm SEPARATION FROM OTHER SERVICES, INSTALLATION OF WARNING TAPE AND A MINIMUM OF 500mm COVER FROM FINISHED GROUND LEVEL
 - CABLES TO BE LOCATED 300mm MIN. OFF BOUNDARY
 - CABLES TO BE INSTALLED INTO DB AND BE CAPPED AND COILED TO ENSURE SUFFICIENT LENGTH FOR TERMINATION AND CLEAR OF ANY LIVE PARTS
 - CUSTOMER END OF CABLE TO BE CAPPED AND BURIED 1m INSIDE OF BOUNDARY
 - CONTRACTOR TO ISSUE A COPY OF C&C TO DEVELOPER
 - ALL TRENCHING & RESTORATION TO BE PROVIDED BY CIVIL TRENCHING CONTRACTOR. REFER TO ORION STANDARD NW72.22.02

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
A	ORIGINAL ISSUE	16/03/26	A.M.	A.M.	M.O.	DESIGNED	A. MECHEN		27/01/26
						DRAWN	A. MECHEN		27/01/26
						CHECKED	M. OPHIUS		16/03/26
						APPROVED			
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555 BIRCHS ROAD - STAGE 2
RESIDENTIAL SUBDIVISION
CABLE PLAN



SCALE(SIZE)	DRAWING NO.	SHEET
1:500 (A3)	107836	CP-1



NOTES:

- FOR ALL CUSTOMER SERVICE CABLES:
 - INSTALLATION OF CABLES TO COMPLY WITH AS/NZS3000 AND REQUIRES AT LEAST 100mm SEPARATION FROM OTHER SERVICES, INSTALLATION OF WARNING TAPE AND A MINIMUM OF 500mm COVER FROM FINISHED GROUND LEVEL
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SHEET CP-1

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
A	ORIGINAL ISSUE	16/03/26	A.M.	A.M.	M.O.	DESIGNED	A. MECHEN		27/01/26
						DRAWN	A. MECHEN		27/01/26
						CHECKED	M. OPHIUS		16/03/26
						APPROVED			
						ORN1027287	© CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A

555 BIRCHS ROAD - STAGE 2

RESIDENTIAL SUBDIVISION
CABLE PLAN



ALLWAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
1:500 (A3)	107836	CP-2

LIGHTING SCHEDULE

- L1

Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 6)
Luminaire: Philips Roadgrace 18W LED luminaire (BRP711 LED23NW 18W DWP) 4000K, Color. Black RAL9005
Column: 7.5m MH Standard Decorative Stepped C Column complete with Tuhinga base and mid casting and Single 1.0m 90° outreach + arm, Color: Black.
Connection: Connect to U/G SLN
- L2

Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 6)
Luminaire: Philips Roadgrace 20W LED luminaire (BRP711 LED26NW 20W DWP) 4000K, Color. Black RAL9005
Column: 7.5m MH Standard Decorative Stepped C Column complete with Tuhinga base and mid casting and Single 1.0m 90° outreach + arm, Color: Black.
Connection: Connect to U/G SLN
- L3

Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 6)
Luminaire: AEC Techlight ITALO 2 S07 7040-060-6M_AEP (6 Module LED) 63.9W luminaire, Color: Black With Satiny Effect - (Cod. 02)
Column: 10.5m MH Sectional ground planted Octagonal column c/w 3.0m 15° tilt Mitred Single outreach arm and a 42mm O.D. 5° tilt to the horizontal spigot, Color: Black RAL9005.
Connection: Connect to U/G SLN
- L4

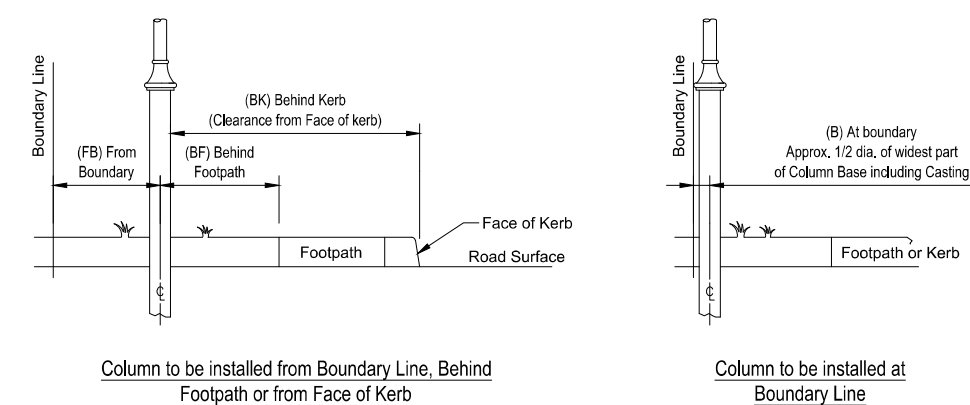
Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 6)
Luminaire: AEC Techlight ITALO 2 S07 7040-060-8M_AEP (8 Module LED) 86.5W luminaire, Color: Black With Satiny Effect - (Cod. 02)
Column: 10.5m MH Sectional ground planted Octagonal column c/w 3.0m 15° tilt Mitred Single outreach arm and a 42mm O.D. 5° tilt to the horizontal spigot, Color: Black RAL9005.
Connection: Connect to U/G SLN

MAXIMUM DESIGN SPACING

Street Name	Width	Arrangement Type*	Max Spacing
Road 3	12.0m	Single Sided	67.4m
Road 3	12.0m	Staggered	67.4m
Road 2	15.0m	Single Sided	59.0m
Road 2	15.0m	Staggered	59.0m
Road 4	16.0m	Single Sided	62.2m
Road 4	16.0m	Staggered	62.2m
Road 5-6	17.0m	Single Sided	59.9m
Road 5-6	17.0m	Staggered	59.9m
Road 1 - 4.9m Offset	21.0m	Single Sided	55.6m
Road 1 - 4.9m Offset	21.0m	Staggered	58.4m
Road 1 - 5.7m Offset	21.0m	Single Sided	59.5m
Road 1 - 5.7m Offset	21.0m	Staggered	59.5m
Birchs Road	10.0m	Single Sided	54.0m
Birchs Road	11.0m	Single Sided	50.0m

* = Arrangement type as per AS/NZS 1158.2:2020 Fig. 5.1

TYPICAL COLUMN POSITION:



ISSUED FOR CONSTRUCTION

Wednesday, 16 July 2025 12:06:39 pm

KEY PLAN



NOTES:

1. Road illumination is designed to comply with AS/NZS 1158; subcategory PR4, V4 and SDC "Code of Practice Part 11" and NZTA M30.
2. Alternative lighting equipment to that specified in the schedule (columns, outreach arms, luminaires etc) can be provided with the tender or quotation submission, provided all requirements are met and the performance of all alternatives are equal or superior to those indicated on this drawing and within the associated documents.
3. Key driver for lighting upgrade was : New Sub-division
4. Consult the designer for any lighting installation works that conflict on site, eg. recorded or unrecorded services.
5. On completion documentation, record GPS location of all new Lighting columns.
6. All connections part of the lighting installation work carried out, MUST be by an Orion approved contractor.
7. All redundant recovered streetlight poles and lanterns shall be removed to the store of the SDC Maintenance Contractor (Connetics Ltd, 11 Islington Avenue, Islington - Contact: Scott Millar).
8. New column location to be marked by the main contractor and verified by lighting designer prior to lighting installation.
10. Existing Services Identified in this design are indicative only and it is the contractor responsibility to locate any existing services by contacting BeforeUdig at <https://www.beforeudig.co.nz> before the start of any underground work.

LUMINAIRE & COLUMN NOTES:

1. Luminaire are to be fitted with mounting bracket to fit 42mm spigot.
2. Luminaire to be supplied with an integral TMS compatible dimmable DALI driver suitable for operating at the specified load and a prewired 7 pin Nema Socket and complete with shorting cap.
3. Luminaire to have an IP rating of IP66 unless stated otherwise.
4. Luminaire colour temperature to be 4000K
5. Luminaire to have Identification label applied at time of installation.

SPUNLITE NOTE:

The use of this **FREE** Lighting design, is authorised by Windsor Urban Ltd and Spunlite Poles Ltd, and is conditional upon the specified lighting items(columns and luminaires), being purchased directly from Windsor Urban Ltd and Spunlite Poles Ltd, or our nominated agents. All nominated installing agents are to contact Windsor Urban Ltd and Spunlite Poles Ltd, to obtain product prices related to this project.

Any use of alternative manufacturer's products, differing from those listed in this design, and installed by any contractor, will automatically forfeit the right to use this intellectual property (lighting design).

Windsor Urban Ltd and Spunlite Poles Ltd hold all copyrights to any of our designs and manufactured products in accordance with the Berne Convention.

The lighting designer reserves the right to request that any alternative products, sourced from a non-listed manufacturer, be removed and replaced with the specified products, prior to any audit being conducted.



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Rev	Description	Date	Des	Dn	Chk	Apd	Or Acp	Contractor	Designed	R. St-Denis / Conn	June 25
A	Issued to Client for Approval	09/06/25	RSD	RSD	.	.	.	.	Drawn	R. St-Denis / Conn	June 25
B	Issued to SDC for Final Approval	12/06/25	RSD	RSD	.	.	.	.	Checked	J. Lim / Conn	June 25
									Approved	B. Hayman for SDC	16/07/25

Scale	1:1000
Revision	B
STREETLIGHTING LAYOUT	
555 Birchs Road Sub-Division Stage 1 to 5 Lincoln	
Size	Drawing Number
A3	400384
	Sheet
	1 / 3



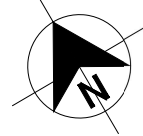
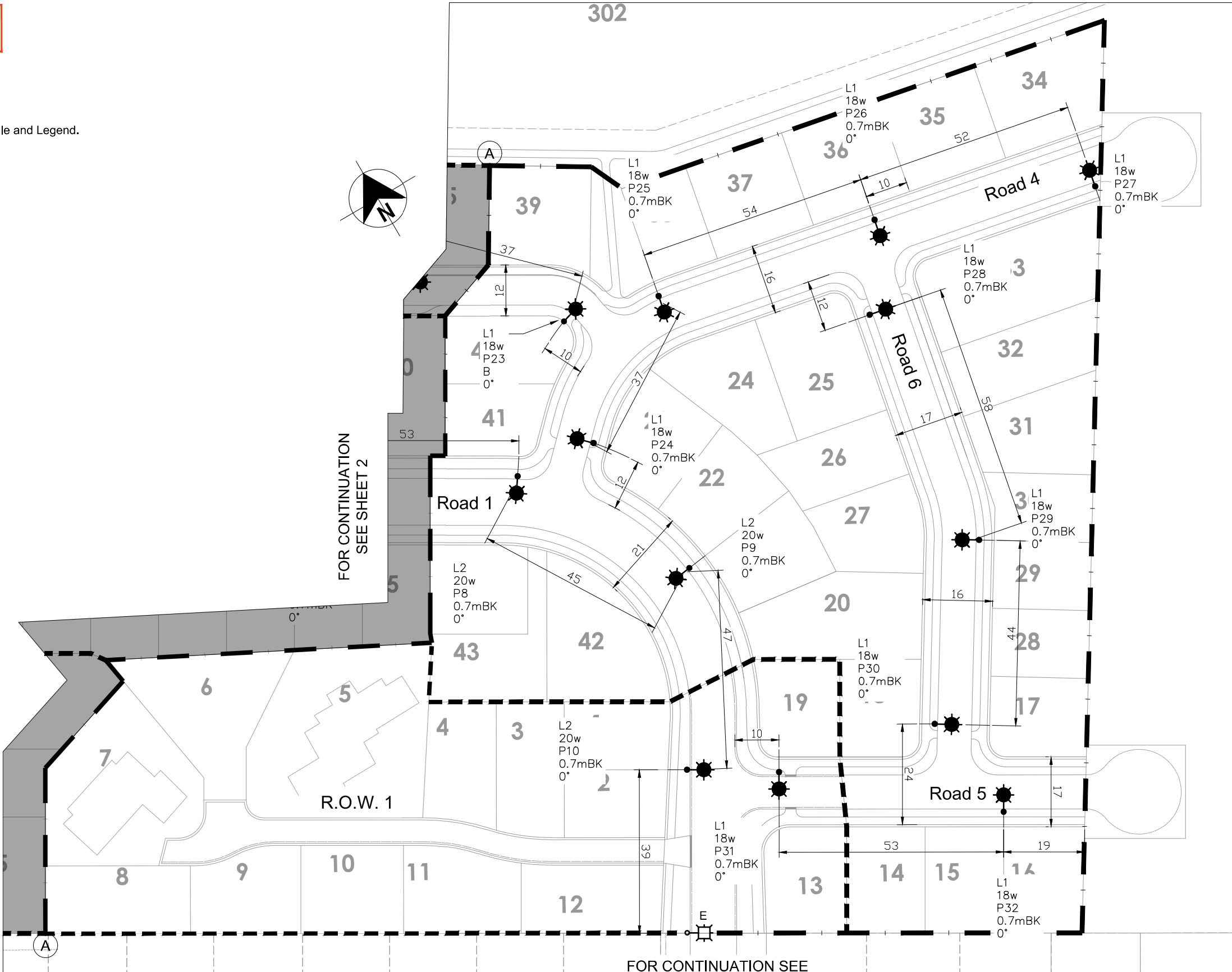
SPUNLITE POLES
LIMITED
611 Halswell Junction Rd, Hornby, Christchurch, NZ
(03) 349-7853 fax (03) 349-6529 freeph (0800) 845-845
Inet: www.spunlite.co.nz

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Wednesday, 16 July 2025 12:07:10 pm

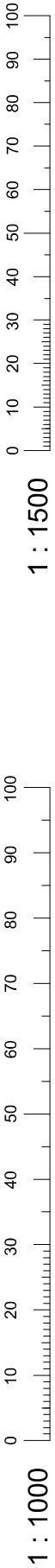
NOTES:

1. Refer to Sheet 1 for Lighting Schedule and Legend.



FOR CONTINUATION
SEE SHEET 2

FOR CONTINUATION SEE
DWG 400118
FLEMINGTON STAGE 12A



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Rev	Description	Date	Des	Dn	Chk	Apd	Or Apc	Contractor	Designed	R. St-Denis / Conn	June 25	Scale
A	Issued to Client for Approval	09/06/25	RSD	RSD	.	.	.	.	Drawn	R. St-Denis / Conn	June 25	1:1000
B	Issued to SDC for Final Approval	12/06/25	RSD	RSD	.	.	.	.	Checked	J. Lim / Conn	June 25	
									Approved	B. Hayman for SDC	16/07/25	
												Revision
												B

STREETLIGHTING LAYOUT

555 Birchs Road Sub-Division
Stage 1 & 2
Lincoln



SPUNLITE POLES
LIMITED

611 Halswell Junction Rd, Hornby, Christchurch, NZ
(03) 349-7853 fax (03) 349-6529 freeph (0800) 845-845
inet: www.spunlite.co.nz

Size	Drawing Number	Sheet
A3	400384	3 / 3



Design Hazard Assessment Register (HAZID)

Prepared By: A. Mechen

Reviewed By: M. Ophius

HAZID Phase: Detailed Design (Includes Modifications)

Date: 16 March 2026

Document: HAR-1

Status: Design REV A

Project: 555 Birchs Road - Stage 2

ORN1027287

Identified Hazards, Causes & Risks Associated with Design/Redesign of new or existing Assets and/or Introduction of New Asset Types, or a change to the Operating Conditions of Assets					Proposed Risk Treatment/Mitigation Measures & Residual Risk Ratings							Notes to Residual Risk (Which Must be So Far As Is Reasonably Practicable and Manageable)	
ID	Risk/Hazard & Cause - Inherent & Without Any Form of Mitigation	Inherent Consequence	Inherent Likelihood	Inherent Risk Rating	Risk Owner	Proposed Mitigation (Eliminate or Minimise/Control) - Include Existing & Proposed Mitigation Measures	Revised Consequence	Revised Likelihood	Residual Risk Rating	Estimated Cost of Mitigation (\$)	Cost of Mitigation Disproportionate to Risk?	Risk Owner	Notes to Residual Risk
A - Planning & Conceptual Design													
A1		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
B - Detailed Design (Includes Modifications)													
B1	Kiosk Earthing - assessed as Low Risk	Minor	Rare	Low	N/A	No further earthing design, studies or testing above Orion standard earthing practices.	Minor	Rare	Low	N/A	No	N/A	
C1		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
D - Operation & Maintenance													
D1		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
E - Decommission & Disposal													
E1		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
Notepad - Use this space to describe the Project, any further information that cannot be described in the hazards above, and any other information that is important to document as part of the Safety in Design assessment													

ACCEPTED

by Mark Williams on: 31 03 2026, 02:00 pm



Orion

APPENDIX A: DESIGN STATEMENT OF ENVIRONMENTAL COMPLIANCE

Work Order:	-
Work Title:	555 Birchs Road - Stage 2
Are the proposed earthworks:	Yes/No (circle one)
1. Excluded under the global earthworks consent (refer section 4.1 and 4.2)?	Yes / No
2. In a Ground Contamination Risk Area?	Yes / No
3. In an Archaeology Area?	Yes / No
4. In a Cultural Significance Area?	Yes / No
5. Within 10m to the bed of a waterway identified as a Critical Habitat?	Yes / No
Where any of the above questions 2 – 5 have been ticked 'yes', has the proposed management / controls to proceed with works been accepted by Orion?	Yes / No
The design submitted to Orion complies with the Global Earthworks Consents requirements.	
Name:	Alex Mechen
Signed:	
Company:	Connetics
Date:	16/03/2026

Issue Date 26.06.2020 NW70.10.31 Next Review 26.06.2025 24 of 39 Amendment 0



Build Quotation for electrical reticulation at:
555 BIRCHS ROAD - STAGE 2
Birchfield Estates Limited
c/o Sam Jones (Davie Lovell-Smith)
email: sam.jones@dls.co.nz

FROM ORION AUTHORISED ELECTRICAL CONTRACTOR:

Refer to Orion accepted Connetics design dwg 107836, Work instruction sheets, schematics and cable plans.

Quotation required by:

Schedule of prices:

1) 11kV CABLES & JOINTING

Supply and install 11kV cable, jointing and terminations
HV programs, Cable tests, certification and livening

2) LV RETICULATION, CABLES & JOINTING

Supply and install cables, distribution cabinets and boundary boxes
cable terminations and jointing (include all S/L cables)
Test and LVA

3) STREET LIGHTS

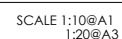
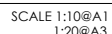
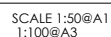
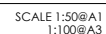
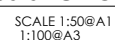
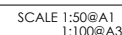
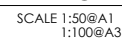
Refer to Spunlite street light design dwg 400834.
Install 11 street lights, including livening and associated documentation

4) SUBSTATIONS

Install one full kiosk and Earthing.

TOTAL (EXCLUDES GST)

NOTES:
Allow for as built cable recording, to be sent directly to Orion.
All trenching and restoration provided by the Developer except where identified.



DRAWING No : E.21417	SHEET No: E03.1	REVISION : R2
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Underground Design

Designer:	A. Mechen	Date:	16/03/2026
Design number:	107836	Job name:	555 Birchs Road - Stage 2
Approx. start date:		Developer:	
Orions Contract	-	Design/Build:	
Orion Contact	Mark Williams	Design Only:	

These quantity estimations are based on the CAD file and are for pricing purposes only. Actual quantities may vary on site.

Stock number	Description	Quantity (m)	Special requirements
1003401	6mm Cu 2ph NS LV	0	
1003402	16mm Cu 1ph NS LV	227	
1003403	16mm Cu 2ph NS LV	0	
1003404	16mm Cu 3ph NS LV	0	
1003405	25mm Cu 1ph NS LV	0	
1003406	25mm Cu 3ph NS LV	0	
1001995	35mm Cu 1ph NS LV	0	
1003407	35mm Cu 3ph NS LV	0	
1008940	70mm Al 1C NS LV	0	
1002009	95mm Al 1C NS LV	0	
1003397	120mm Ali 3ph NS +10mm LV	0	
1003398	185mm Ali 3ph NS +10mm LV	1121	
1003399	300mm Ali 3ph NS +10mm LV	0	
1003400	400mm 1c Cu XLPE	0	
1003383	25mm 1c XLPE 11KV	0	
1003384	35mm Ali 3ph XLPE 11KV	0	
1003386	95mm Ali 3ph XLPE 11KV	0	
1003387	185mm Ali 3ph XLPE 11KV	560	
1003390	300mm Ali 1ph XLPE 33KV	0	
1009939	400mm Cu 3ph XLPE 11KV	0	
1003389	185mm 1c Cu 11KV	0	
1006345	95mm 1c AL XLPE 11KV	0	
1003394	300Al 1c 33kV	0	
1003423	25pr 0.9mm PAC PE SWA	0	
1003422	7pr 0.9mm PAC PE SWA	0	
1007115	Distribution Box S - 6 way	0	
1007156	Distribution Box T - 6 way	0	
1012372	DB-U (replaces DB-S & DB-T)	16	
1012376	DB-V (replaces DB-T1)	0	
1001152	Multi Box DC	1	
1000128	Full kiosk	1	
1000129	Half kiosk	0	
1000130	Quarter kiosk	0	