

Engineering Design, Connetics Ltd		DOCUMENT TRANSMITTAL SHEET									
PO Box 2237 Christchurch New Zealand. Ph. (03) 353 7200											
DRAWING ISSUE DETAILS											
		DATE	18/08/26								
DWG No.	SHEET	DRAWING DETAIL	ISSUE								
107822	S9-WIS-01	Work Instruction Sheet	A								
107822	S9-WIS-02	Work Instruction Sheet	A								
107822	S9-HV-01	HV Schematics	A								
107822	S9-LV-01	LV Schematics	A								
107822	S9-SL-01	SL Schematics	A								
107822	S9-CP-01	Cable Plan	A								
107822	S9-CP-02	Cable Plan	A								
		Pricing Sheet - Stage 9									
		Design Quantities - Stage 9									
	HAR-1	HAZID	A								
		Design Statement of Environmental Compliance									
400440	1-2	Lighting design									
		Trench cross section									
Notes:			BROADFIELD GRANGE								
			STAGE 9								
			by Sammy Li on: 05 10 2026, 11:02 am					JOB No.		SHEET	
			RESIDENTIAL SUBDIVISION					107822		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 Broadfield Grange Stage 9, refer to Connetics Stage 9 working drawings 107822, HV, LV & SL schematics

1. Install a full kiosk fitted with a 3K1T MSU & 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:

T. Kotara

DATE PREPARED:

23/06/2026

ORION CONTRACT MANAGER:

ES NUMBER:

WORK ORDER NUMBER:

SUBSTATION DETAILS

Size	Switchgear	CCT	Cable Cable Size	New/Ex	Circuit Destination	Comments
OFF SELWYN RD LOT 248 - L3/1301						
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	-	-	-	Install tubes and retainers
	Links	52	185Al 3C 11kV	New	Off Selwyn Rd Lot 413 cct.53	Terminate and connect new cable, trifurcated to singles. Label circuit destination
	Links	53	185Al 3C 11kV	New	Falcons View Dr No.171 cct.51	Terminate and connect new cable, trifurcated to singles. Label circuit destination
16A	Fuses	54	3-25Al 1C 11kV	New	Local Transformer	Install 25mmAl single HV leads between MSU and TX.
NEW 800A DIN TYPE LV PANEL						Install 800Amp LV DIN panel. Fit with 630A incomer and 4 outgoing circuits. Install LV monitoring equipment as per NW72.22.22. Install lighting as per NW72.22.20
Local service	32A fuse		6mm	New		Install local service panel UE2.11.4.
630A	Open	-	-	-	-	Equip & leave spare for stage 11
630A	Open	-	-	-	-	Equip & leave spare for stage 11
630A	Open	3	185Al 3C+1 CuNS LV	New	Off Selwyn Rd Lot 413 cct.6	Terminate and connect new cable, label circuit destination. Leave open.
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	185Al 3C+1 CuNS LV	New	Boyce 99 cct.1	Terminate and connect new cable, label circuit destination.
630A	355Amp fuses	5	185Al 3C+1 CuNS LV	New	Scout 96 cct.2	Terminate and connect new cable, label circuit destination.
630A	Open	6	185Al 3C+1 CuNS LV	New	Scout St No.79 cct.4	Terminate and connect new cable, label circuit destination. Leave open.
-	Not equipped	-	-	-	-	Fit cover kit.
	Generator Way	Gen.				Fit Generator spare way cover kit.

Street lighting: Terminate 2 SL pilots

OFF SELWYN RD LOT 413 - L3/1191

Ex. MSU						
	Links	53	185Al 3C 11kV	Ex.	Off Selwyn Rd Lot 248 cct.52	Relabel one HV & one LV circuit destination
						Relabel circuit destination
Ex. LV PANEL						
630A	355Amp fuses	6	185Al 3C+1 CuNS LV	Ex.	Off Selwyn Rd Lot 248 cct.3	Relabel circuit destination

FALCONS VIEW DR NO.171 - L4/257

Ex. MSU						
	Links	51	185Al 3C 11kV	Ex.	Off Selwyn Rd Lot 248 cct.53	Relabel one HV circuit destination
						Relabel circuit destination

Notes:

Accepted For Construction

Name: by Sammy Li on: 05 10 2026, 11:03 am

Position: Sammy Li

Date:

Orion

Connetics Ltd.

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ISSUE

A

**BROADFIELD GRANGE
STAGE 9**

RESIDENTIAL SUBDIVISION



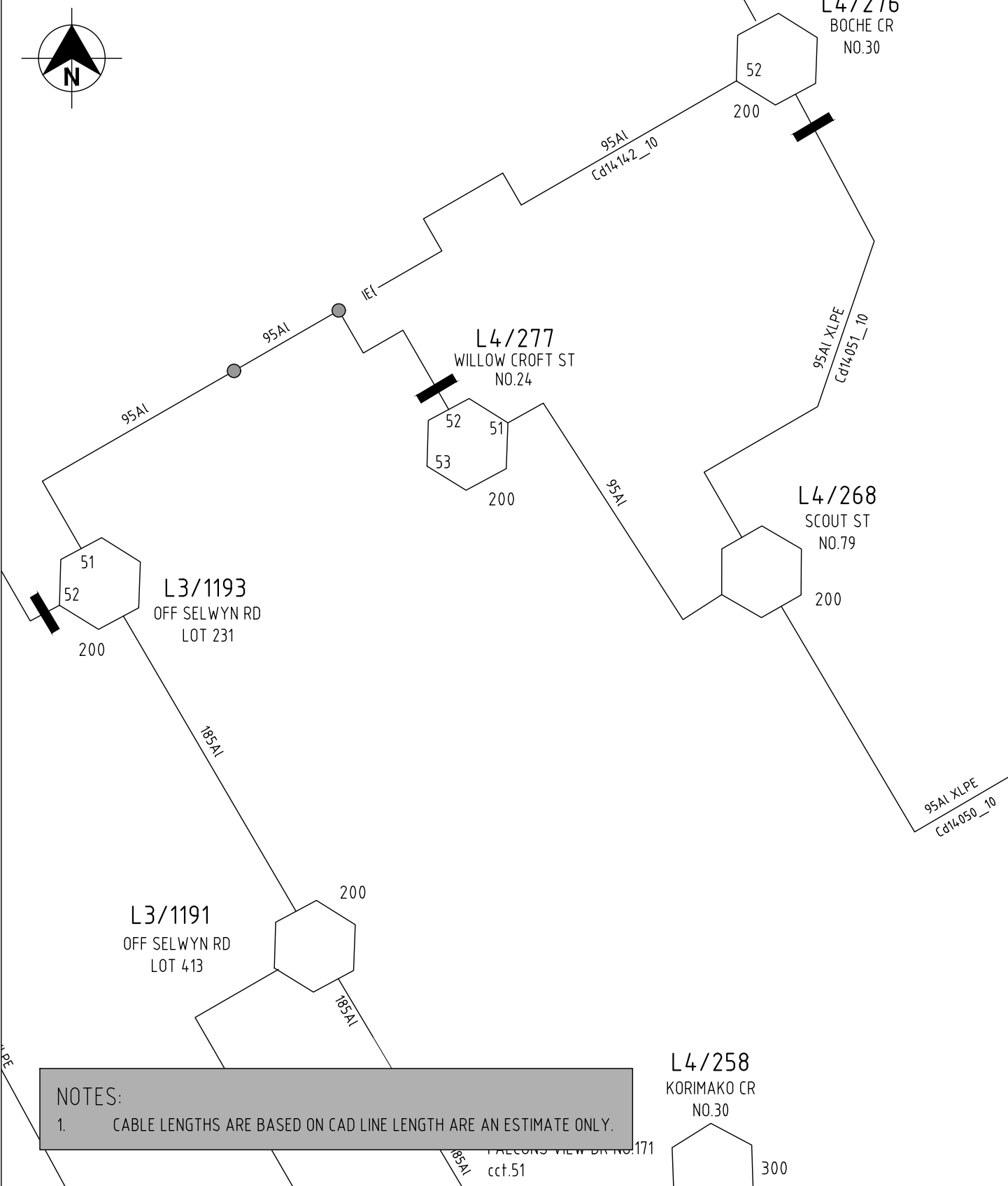
JOB No.

107822

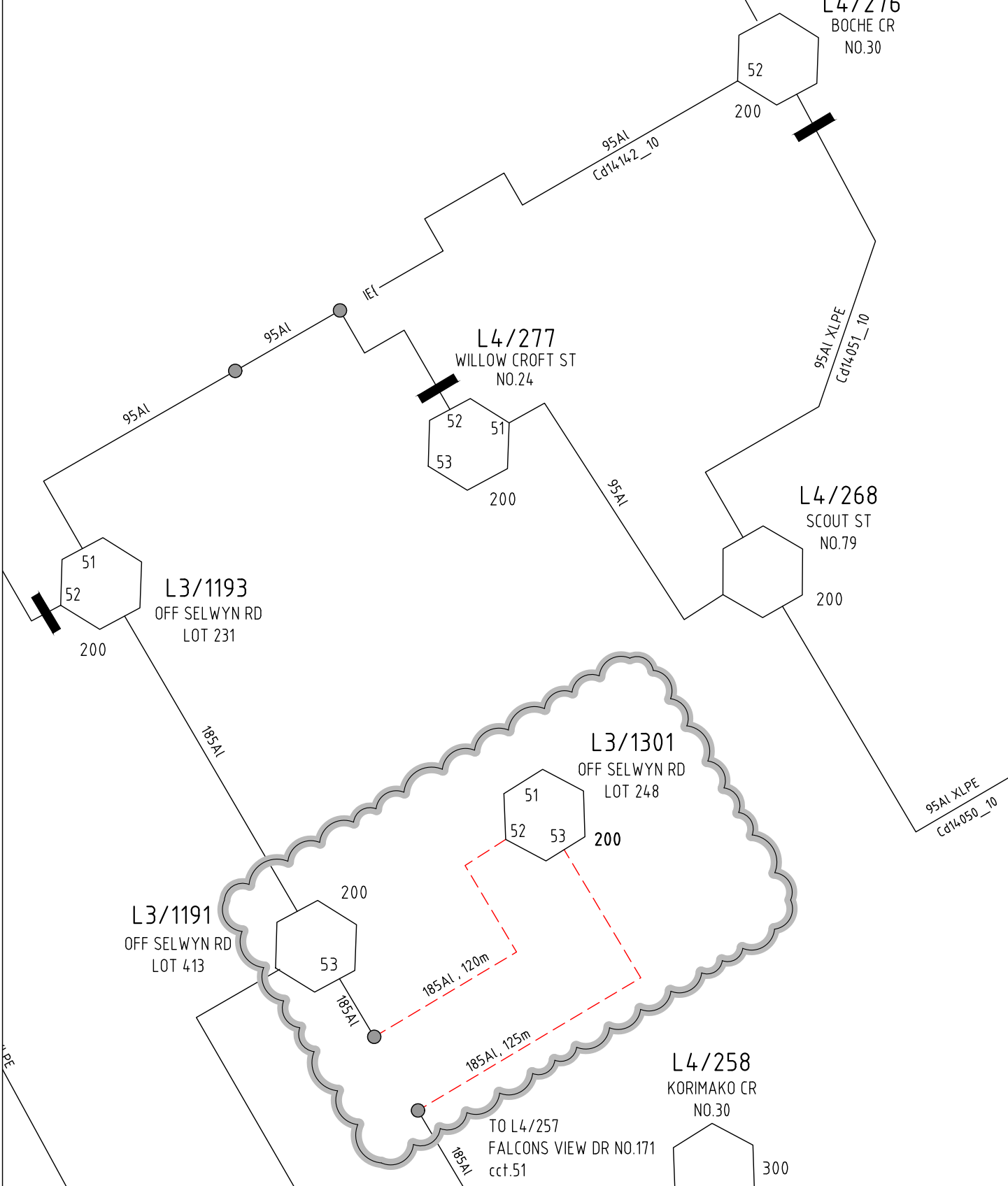
Sheet

S9-WIS-01

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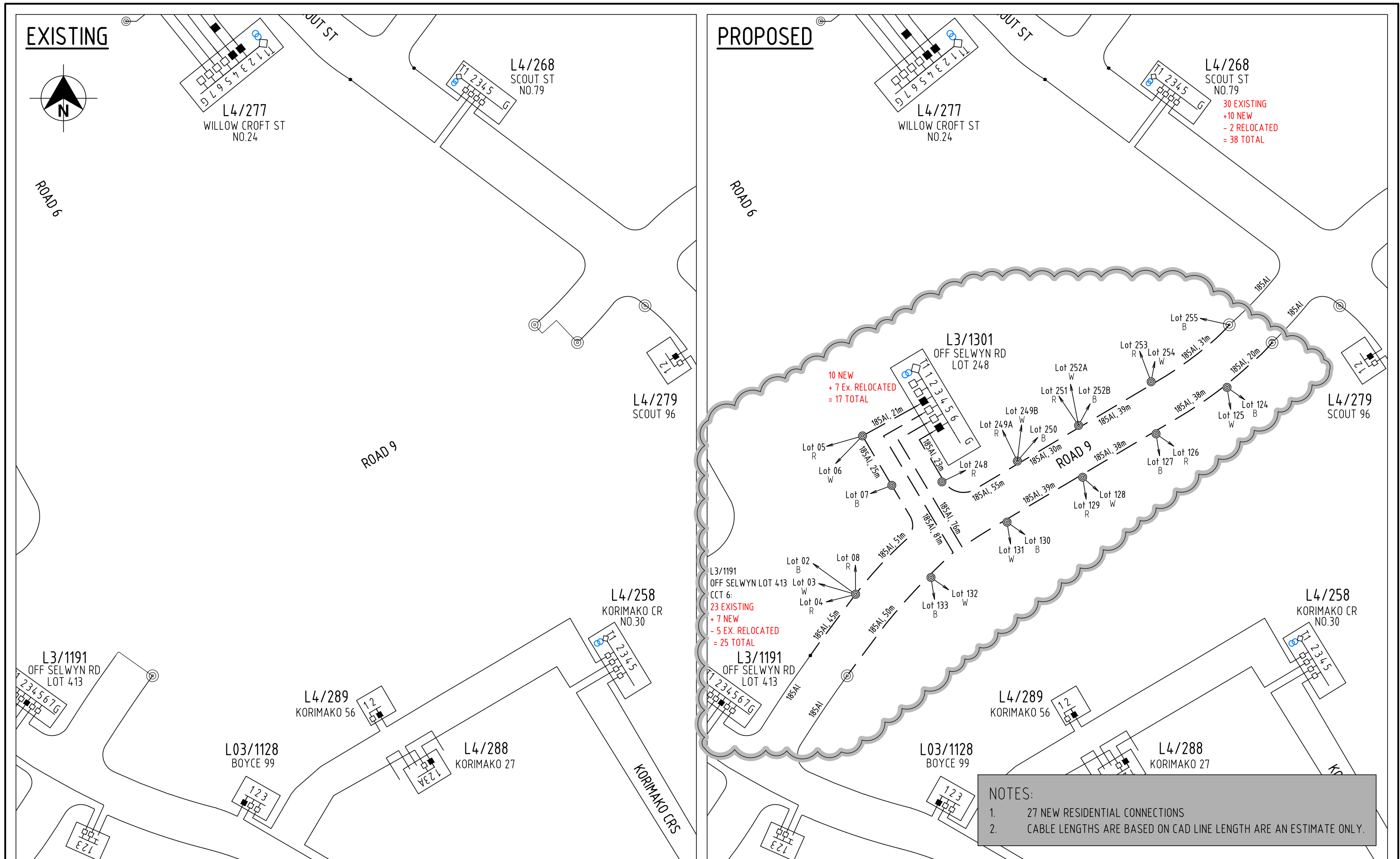


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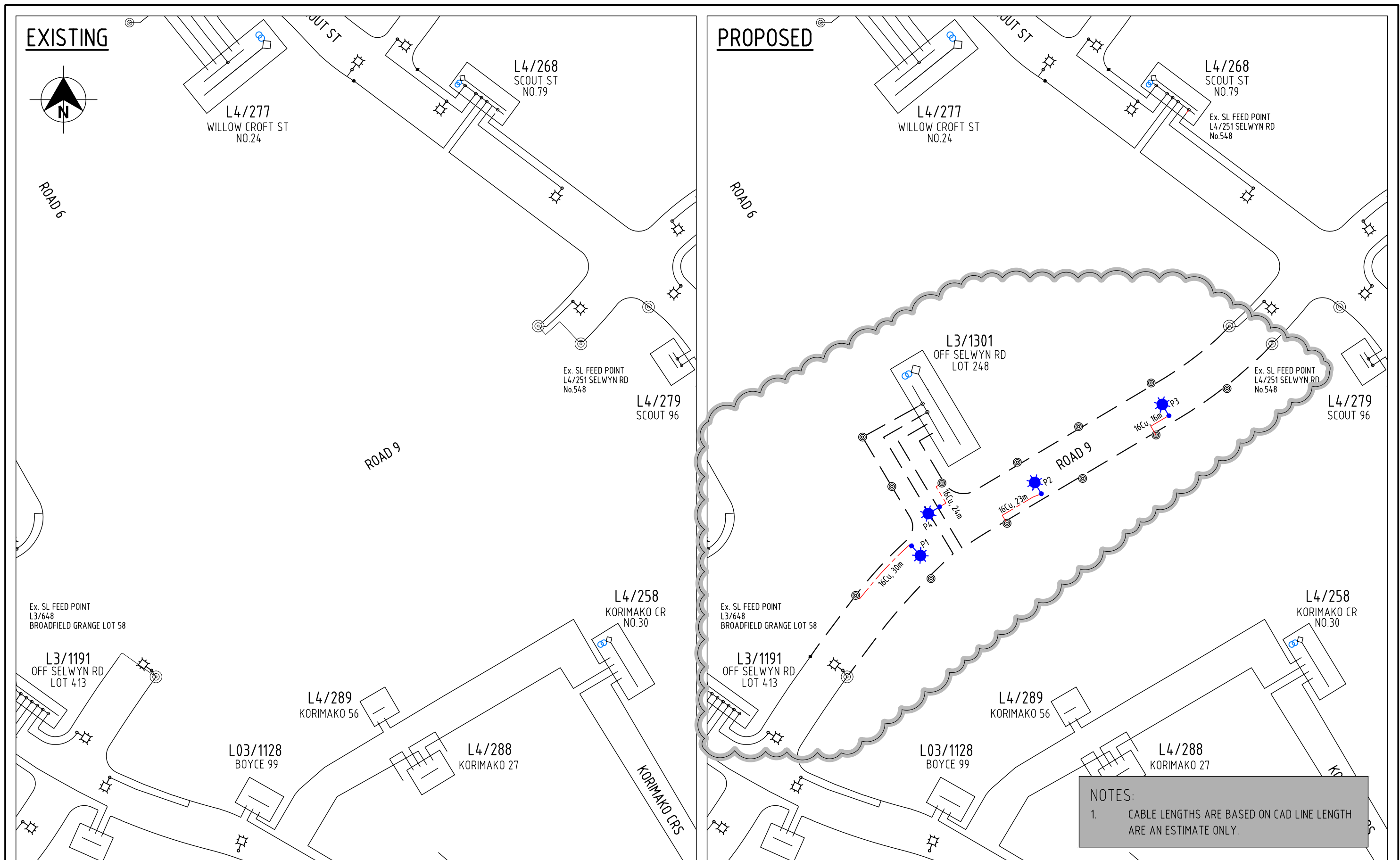


NOTES:
1. CABLE LENGTHS ARE BASED ON CAD LINE LENGTH ARE AN ESTIMATE ONLY.

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	BROADFIELD GRANGE STAGE 9 RESIDENTIAL SUBDIVISION HV SCHEMATIC - EXISTING & PROPOSED		
A	ORIGINAL ISSUE	23/06/26	T.K.	T.K.	N.J.	DESIGNED	T. KOTARA		27/01/26			
	by Sammy Li on: 05 10 2026, 11:03 am					DRAWN	T. KOTARA		27/01/26	connetics ALL WAYS CONNECTING		
						CHECKED	N. JARRETT		18/06/26			
						APPROVED				SCALE(SIZE)	DRAWING NO.	SHEET
										NTS (A3)	107822	S9-HV-01



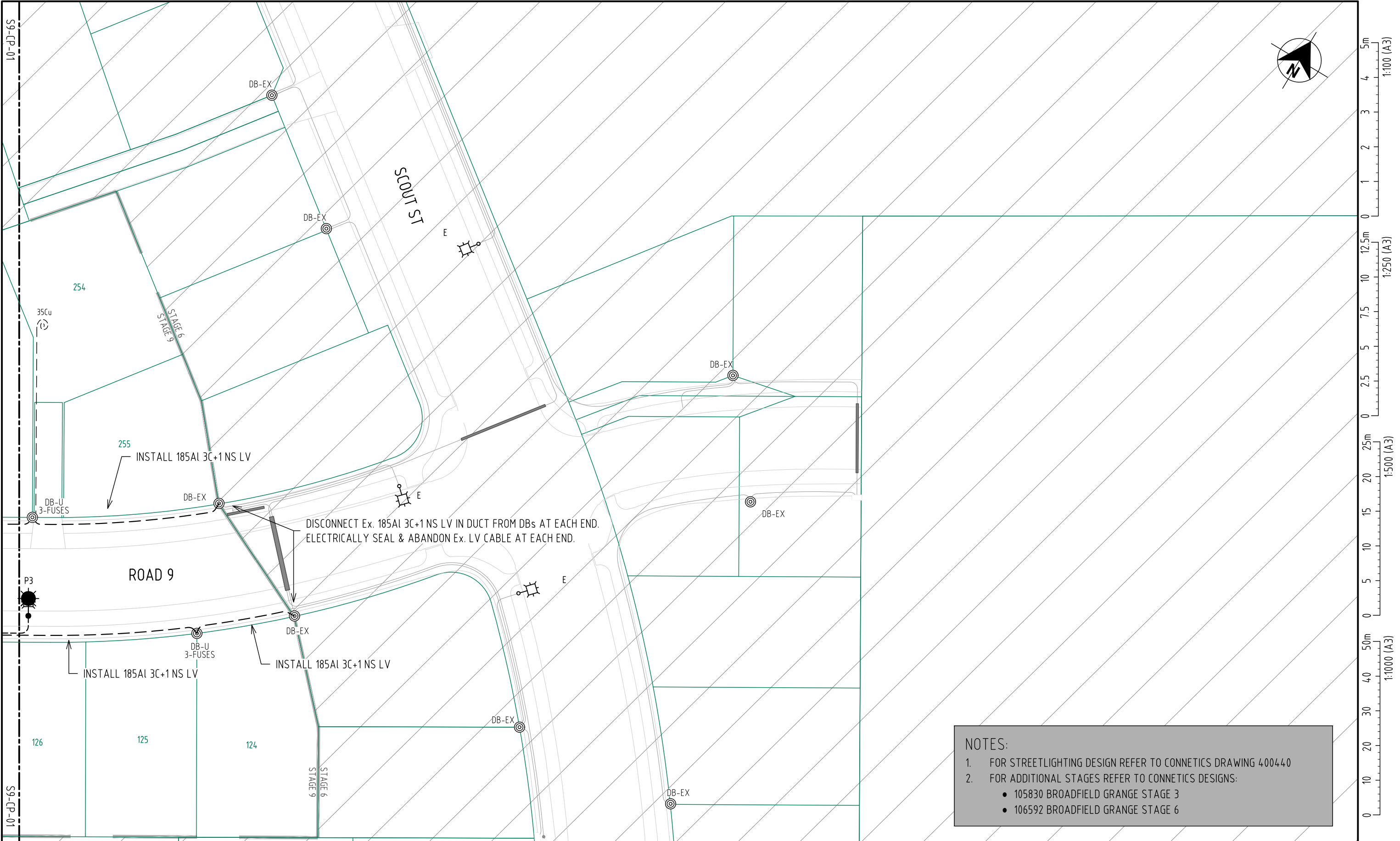
ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	BROADFIELD GRANGE STAGE 9		
A	ORIGINAL ISSUE	13/08/26	T.K.	T.K.	N.J.	DESIGNED	T. KOTARA		27/01/26	RESIDENTIAL SUBDIVISION LV SCHEMATIC - EXISTING & PROPOSED		
						DRAWN	T. KOTARA		27/01/26			
						CHECKED	N. JARRETT		18/06/26			
						APPROVED						
						ORN1032951			A			
CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED										connetics ALL WAYS CONNECTING		
										SCALE(SIZE)	DRAWING NO.	SHEET
										NTS (A3)	107822	S9-LV-01



ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	BROADFIELD GRANGE STAGE 9		
A	ORIGINAL ISSUE	13/08/26	T.K.	T.K.	N.J.	DESIGNED	T. KOTARA		27/01/26	RESIDENTIAL SUBDIVISION SL SCHEMATIC - EXISTING & PROPOSED		
						DRAWN	T. KOTARA		27/01/26			
						CHECKED	N. JARRETT		18/06/26			
						APPROVED						
										connetics ALL WAYS CONNECTING		
										SCALE(SIZE)	DRAWING NO.	SHEET
										NTS (A3)	107822	S9-SL-01

ACCEPTED
by Sammy Li on: 05 10 2026, 11:03 am
Orion

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ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	BROADFIELD GRANGE STAGE 9		
A	ORIGINAL ISSUE	23/06/26	T.K.	T.K.	N.J.	DESIGNED	T. KOTARA		27/01/26	RESIDENTIAL SUBDIVISION CABLE PLAN - EXISTING & PROPOSED		
						DRAWN	T. KOTARA		27/01/26			
						CHECKED	N. JARRETT		18/06/26			
						APPROVED						
						ORN1032951	CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A			
										connetics ALL WAYS CONNECTING		
										SCALE(SIZE)	DRAWING NO.	SHEET
										1:500 (A3)	107822	S9-CP-02

WORKS INSTRUCTION SHEET

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

DISTRIBUTION CABINET DETAILS

Size	Switchgear	CCT	Cable		Circuit Destination	Comments		
			Cable Size	New/Ex				
SCOUT ST NO.79 - L4/268								
Ex. LV PANEL			185Al 3C+1 CuNS LV	Ex.	Off Selwyn Rd Lot 248 cct.6	Relabel one LV circuit destination		
630A	355Amp fuses	4				Relabel circuit destination		
Street lighting: Close 1 SL 5th core								
BOYCE 99 - L03/1128								
630A	Open	1	185Al 3C+1 CuNS LV	Ex.	Off Selwyn Rd Lot 248 cct.4	Relabel one LV circuit destination		
						Relabel circuit destination		
SCOUT 96 - L4/279								
630A	Open	2	185Al 3C+1 CuNS LV	Ex.	Off Selwyn Rd Lot 248 cct.5	Relabel one LV circuit destination		
						Relabel circuit destination		
Notes:			Accepted For Construction		BROADFIELD GRANGE STAGE 9			
			Name: 					
			Position: by Sammy Li on: 05 10 2026, 11:03 am		RESIDENTIAL SUBDIVISION		JOB No.	Sheet
			Date: 				107822	S9-WIS-02
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					A			

Underground Design - Stage 9

Designer:	T. Kotara	Date:	18/08/2026
Design number:	107822	Job name:	Broadfield Grange Stage 9
Approx. start date:		Developer:	
Orions Contract		Design/Build:	
Orion Contact		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	77	
1003403	16mm Cu 2ph NS LV	0	
1003404	16mm Cu 3ph NS LV	0	
1003405	25mm Cu 1ph NS LV	15	
1003406	25mm Cu 3ph NS LV	0	
1001995	35mm Cu 1ph NS LV	98	
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	662	
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	245	
1003390	300mm Ali 3ph XLPE 11KV	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)	11	
1012376	DB-V (replaces DB-T1)	0	
1001152	Multi Box DC	0	
1000128	Full kiosk	1	
1000129	Half kiosk	0	
1000130	Quarter kiosk	0	

Build Quotation for electrical reticulation at:
BROADFIELD GRANGE - STAGE 9
Urban Estates 22 Ltd.
c/o Davie Lovell-Smith (Consultant company)
email: Ben.Fox@dls.co.nz

FROM ORION AUTHORISED ELECTRICAL CONTRACTOR:

Refer to Orion accepted Connetics design dwg 107822 S9, 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, and boundary boxes
cable terminations and jointing (include all S/L cables)
Test and LVA

3) STREET LIGHTS

Refer to Windsor Urban street light design dwg 400440.
Install 4 street lights, including livening and associated documentation

4) SUBSTATIONS

Install 1 full kiosk fit, refer to WIS. Include earthing. Test earthing to ensure compliance.

5) CUSTOMER SERVICE CABLES

Lay in customer service cable as per cable plan & LV schematics

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.

Underground Design - Stage 9

Designer:	T. Kotara	Date:	17/08/2026
Design number:	107822	Job name:	Broadfield Grange Stage 9
Approx. start date:		Developer:	
Orions Contract		Design/Build:	
Orion Contact		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	77	
1003403	16mm Cu 2ph NS LV	0	
1003404	16mm Cu 3ph NS LV	0	
1003405	25mm Cu 1ph NS LV	15	
1003406	25mm Cu 3ph NS LV	0	
1001995	35mm Cu 1ph NS LV	28	
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	662	
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	245	
1003390	300mm Ali 3ph XLPE 11KV	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)	11	
1012376	DB-V (replaces DB-T1)	0	
1001152	Multi Box DC	0	
1000128	Full kiosk	1	
1000129	Half kiosk	0	
1000130	Quarter kiosk	0	

Orion

Design Hazard Assessment Register (HAZID)

Project:Broadfield Grange - Stage 9

Prepared By:T. Kotara

Reviewed By:N. Jarrett

HAZID Phase:Detailed Design (Includes Modifications)

Date:23 June 2026

Document:HAR-1

Status:Design REV A

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	
B2	Coordination problems with multiple staged designs	Moderate	Rare	Low	N/A	Orion approved designs of previous stages to be treated as constructed and considered as existing network.	Minor	Rare	Low	N/A	No	N/A	
B3		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
C - Construction & Commissioning													
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 Sammy Li on: 05 10 2026, 11:03 am Orion													

APPENDIX A: DESIGN STATEMENT OF ENVIRONMENTAL COMPLIANCE

Work Order:		
Work Title:	Broadfield Grange - Stage 9	
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:	T. Kotara	
Signed:		
Company:	Connetics	
Date:	23/06/2026	

ACCEPTED

by Sammy Li on: 05 10 2026, 11:03 am

Orion

Engineering Design, Connetics Ltd		DOCUMENT TRANSMITTAL SHEET									
PO Box 2237 Christchurch New Zealand. Ph. (03) 353 7200											
DRAWING ISSUE DETAILS											
		DATE	15/06/26	29/09/26							
DWG No.	SHEET	DRAWING DETAIL	ISSUE								
107822	S14-WIS-01	Work Instruction Sheet	A								
107822	S14-WIS-02	Work Instruction Sheet	A								
107822	S14-HV-01	HV Schematics - Existing & Proposed	A								
107822	S14-LV-01	LV Schematics - Existing & Proposed	A	B							
107822	S14-SL-01	SL Schematics - Existing & Proposed	A								
107822	S14-CP-01	Cable Plan	A	B							
		Pricing Sheet									
		Design Quantities									
	HAR-1	HAZID	A								
		Design Statement of Environmental Compliance									
400440	1-2	Lighting Design									
Notes:			BROADFIELD GRANGE STAGE								
			RESIDENTIAL SUBDIVISION								
			14 ACCEPTED by Sammy Li on: 21/10/2026, 11:08 am Orion					JOB No.		SHEET	
								107822		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 Broadfield Grange Stage 14, refer to Connetics Stage 14 working drawings 107822, HV, LV & SL schematics

1. Lay 11kV and 400V cables
2. Carry out 11kV & 400V cable thru joints
3. Terminate all cables, complete test certificates & label circuits.
4. Liven all Circuits only after clearance from Orion's Contract Manager.
5. Test earthing to ensure compliance.
6. All Work shall comply with Orion NZ Ltd's Design Standards and Specifications

PREPARED BY: T. Kotara
DATE PREPARED: 15/06/2026
ORION CONTRACT MANAGER
ES NUMBER:
WORK ORDER NUMBER:

SUBSTATION DETAILS

Size	Switchgear	CCT	Cable Cable Size	New/Ex	Circuit Destination	Comments
WILLOW CROFT ST NO.24 - L4/277						
Ex. 3K1T MSU						Existing kiosk with 3K1T MSU & 200kVA transformer.
	Open	52	95AI 3C 11kV	Ex.	Off Selwyn Rd Lot 231 cct.51	Relabel circuit destination. Leave open.
Ex. LV PANEL						
630A	355Amp fuses	5	185AI 3C+1 CuNS LV	Ex.	Off Selwyn Rd Lot 257 cct.3	Close circuit. Relabel circuit destination.
OFF SELWYN RD LOT 231 - L3/1193						
Ex. 3K1T MSU						Existing kiosk with 3K1T MSU & 200kVA transformer.
	Links	51	95AI 3C 11kV	Ex.	Willow Croft St No.24 cct 52	Relabel circuit destination.
Ex. LV PANEL						
630A	355Amp fuses	1	185AI 3C+1 CuNS LV	Ex.	Off Selwyn Lot 257 cct.2	Relabel circuit destination
630A	355Amp fuses	6	185AI 3C+1 CuNS LV	Ex.	Off Selwyn Lot 257 cct.1	Relabel circuit destination
BOCHE CR NO.30 - L4/276						
Ex. 3K1T MSU						Existing kiosk with 3K1T MSU & 200kVA transformer.
	Links	52	-	-	-	Fit dust covers and tubes, relabel circuit destination.
Ex. LV PANEL						
630A	355Amp fuses	4	185AI 3C+1 CuNS LV	Ex.	Off Selwyn Lot 257 cct.4	Relabel circuit destination

DISTRIBUTION CABINET DETAILS

Size	Switchgear	CCT	Cable Cable Size	New/Ex	Circuit Destination	Comments
OFF SELWYN LOT 257 - SITE 1						
630A	Open	1	185AI 3C+1 CuNS LV	New	Off Selwyn Rd Lot 231 cct.6	Install new distribution cabinet (M1). Equip with four ways.
630A	Open	2	185AI 3C+1 CuNS LV	New	Off Selwyn Rd Lot 231 cct.1	Terminate and connect new cable, label circuit destination. Open circuit.
630A	355Amp fuses	3	185AI 3C+1 CuNS LV	New	Willow Croft St No.24 cct.5	Terminate and connect new cable, label circuit destination.
630A	Open	4	185AI 3C+1 CuNS LV	New	Boche Cr No.30 cct.4	Terminate and connect new cable, label circuit destination. Open circuit.

Notes:

Accepted For Construction

Name: _____

Position: _____

Date: _____

by Sammy Li on: 21/10/2026, 11:11 am

Connetics Ltd. Orion

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ISSUE

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**BROADFIELD GRANGE
STAGE 14**

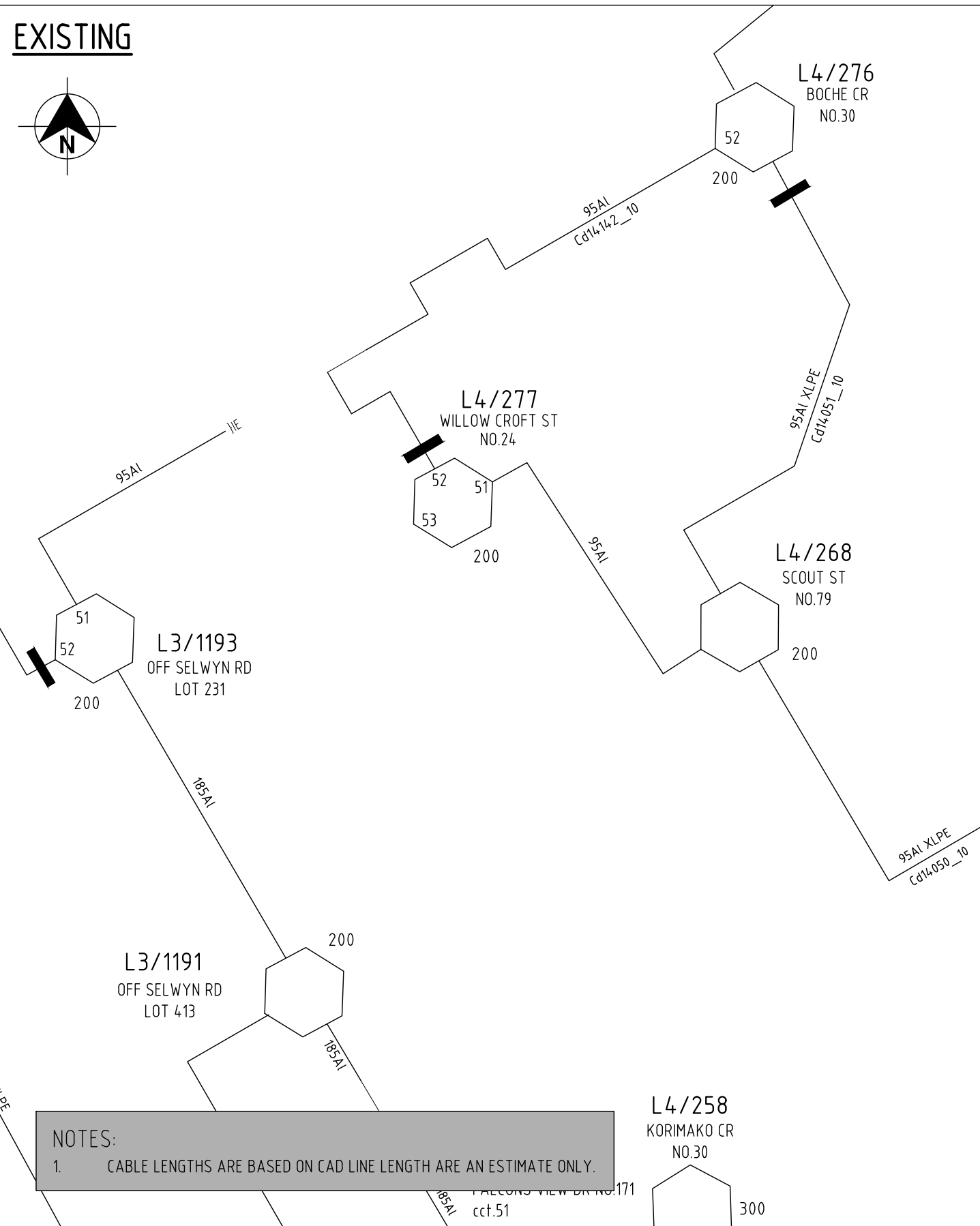
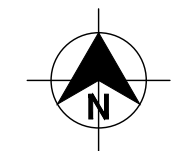
RESIDENTIAL SUBDIVISION



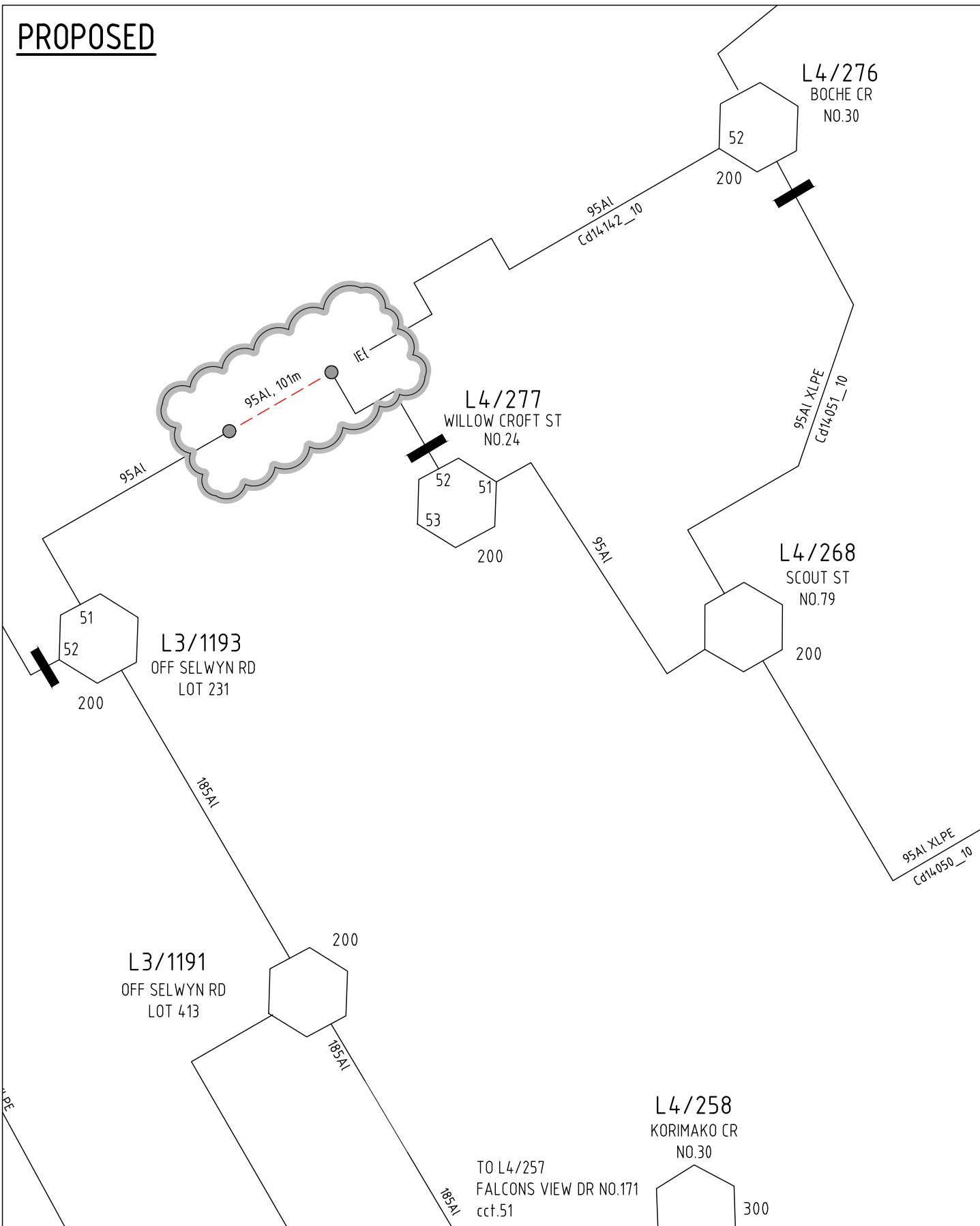
JOB No. 107822

Sheet S14-WIS-01

EXISTING



PROPOSED



ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	BROADFIELD GRANGE STAGE 14 RESIDENTIAL SUBDIVISION HV SCHEMATIC - EXISTING & PROPOSED		
A	ORIGINAL ISSUE	15/06/26	T.K.	T.K.	M.O.	DESIGNED	T. KOTARA		27/01/26			
						DRAWN	T. KOTARA		27/01/26	connetics ALL WAYS CONNECTING		
						CHECKED	M. OPHUIS		23/04/26			
						APPROVED				SCALE(SIZE)	DRAWING NO.	SHEET
										NTS (A3)	107822	S14-HV-01

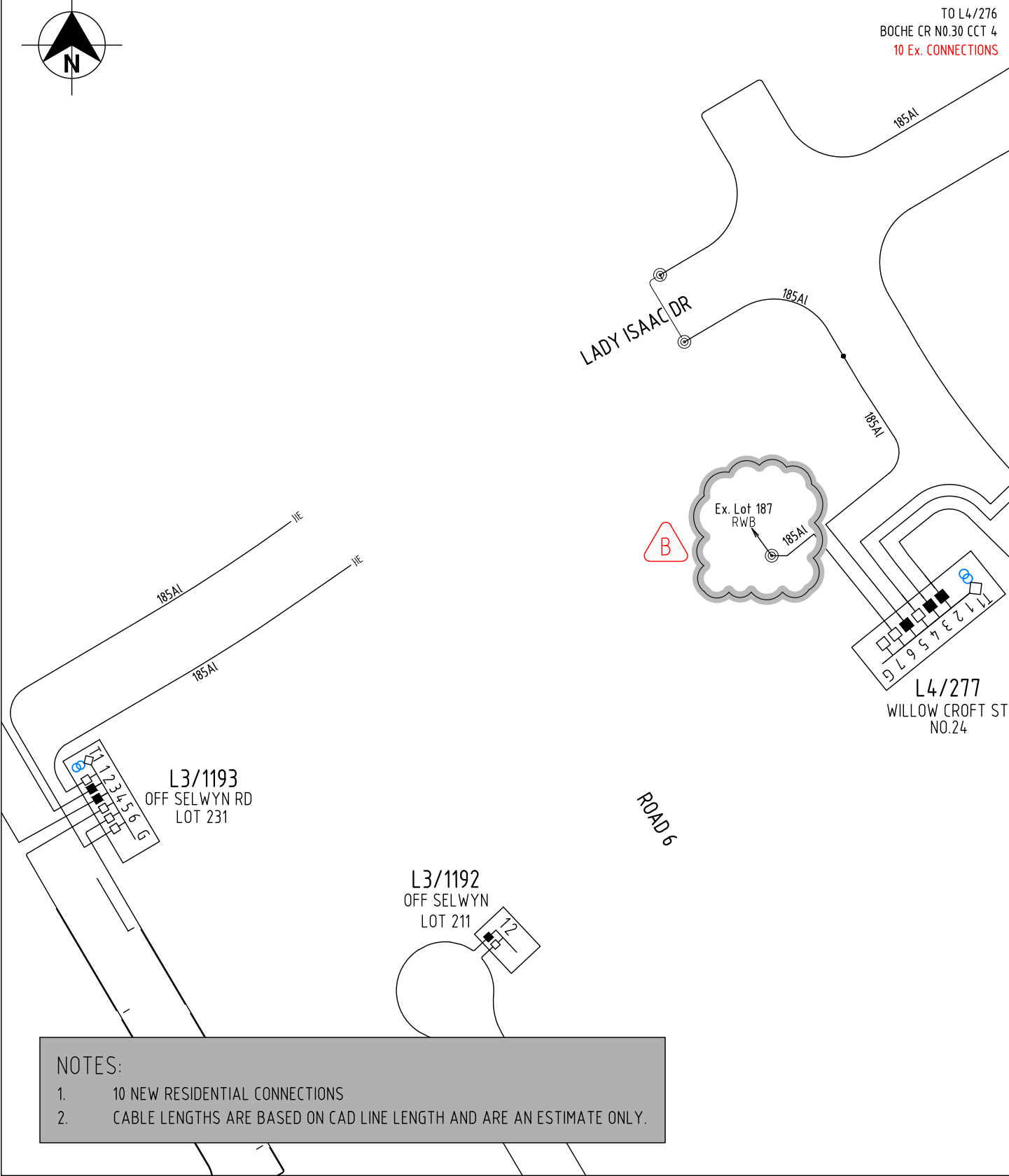
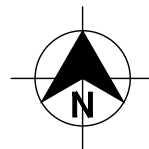
ACCEPTED
by Sammy Li on: 21/10/2026
Orion

CONNETICS LIMITED. ALL RIGHTS RESERVED
UNAUTHORISED USE PROHIBITED

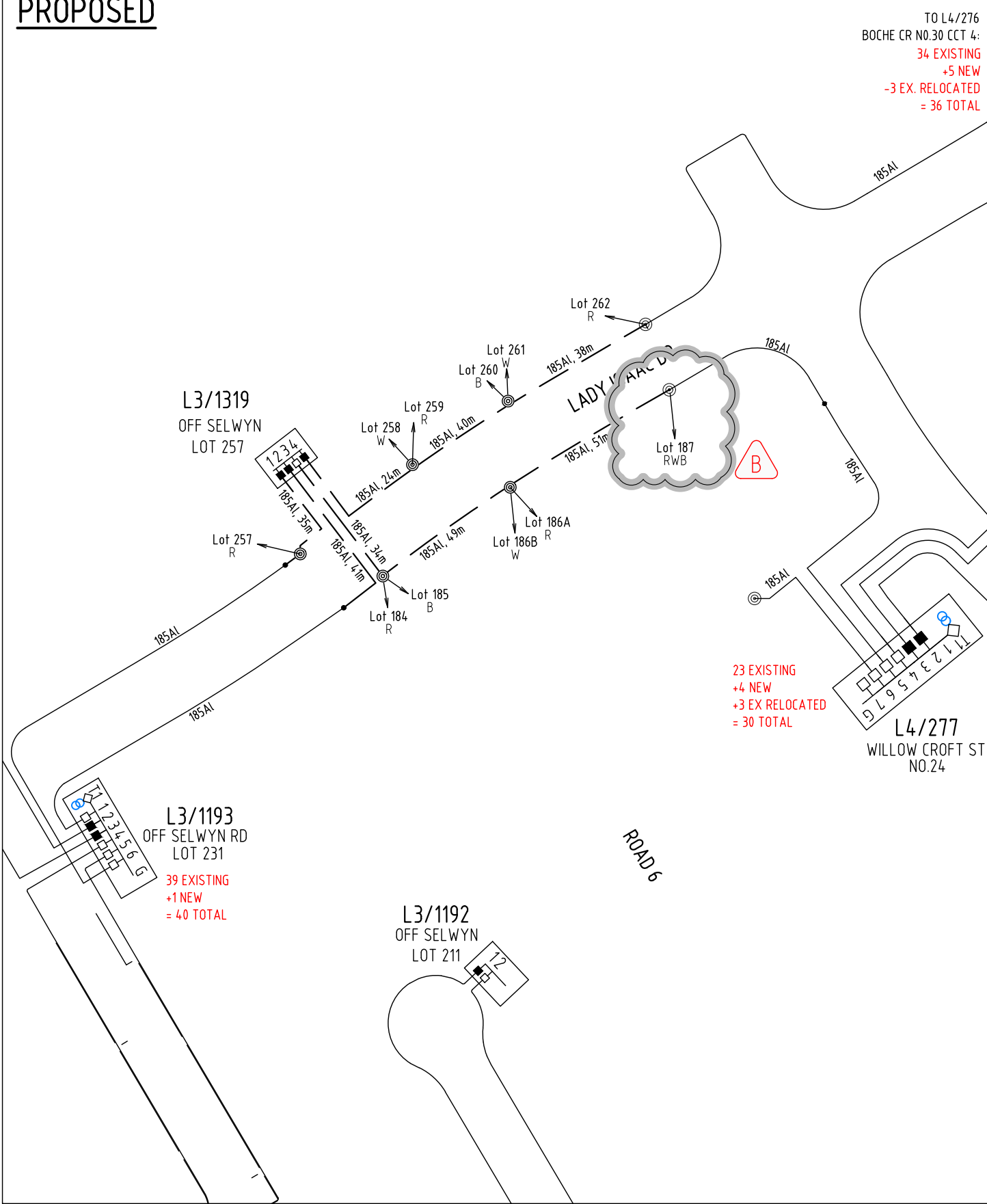
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EXISTING

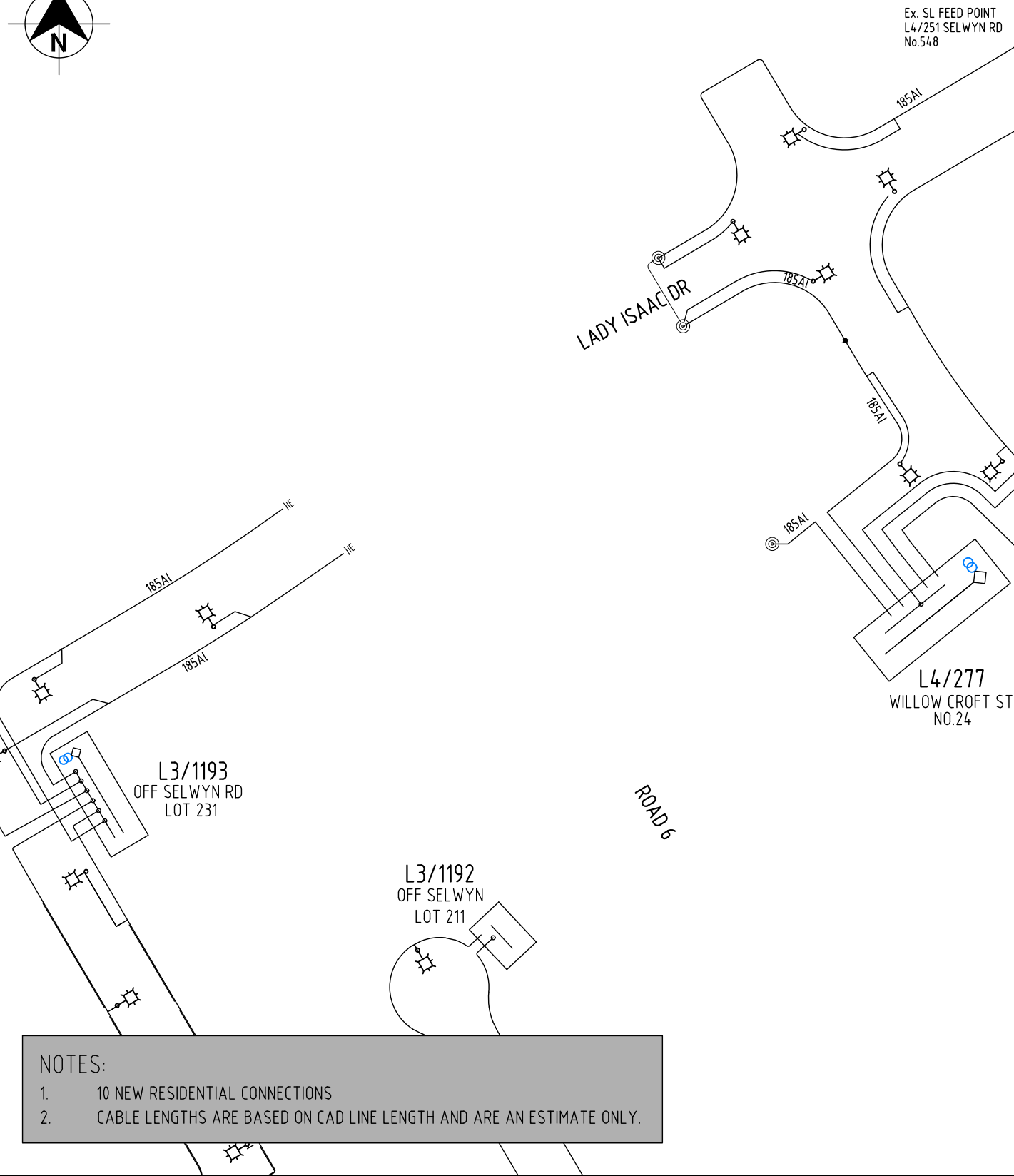
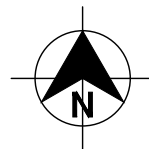


PROPOSED

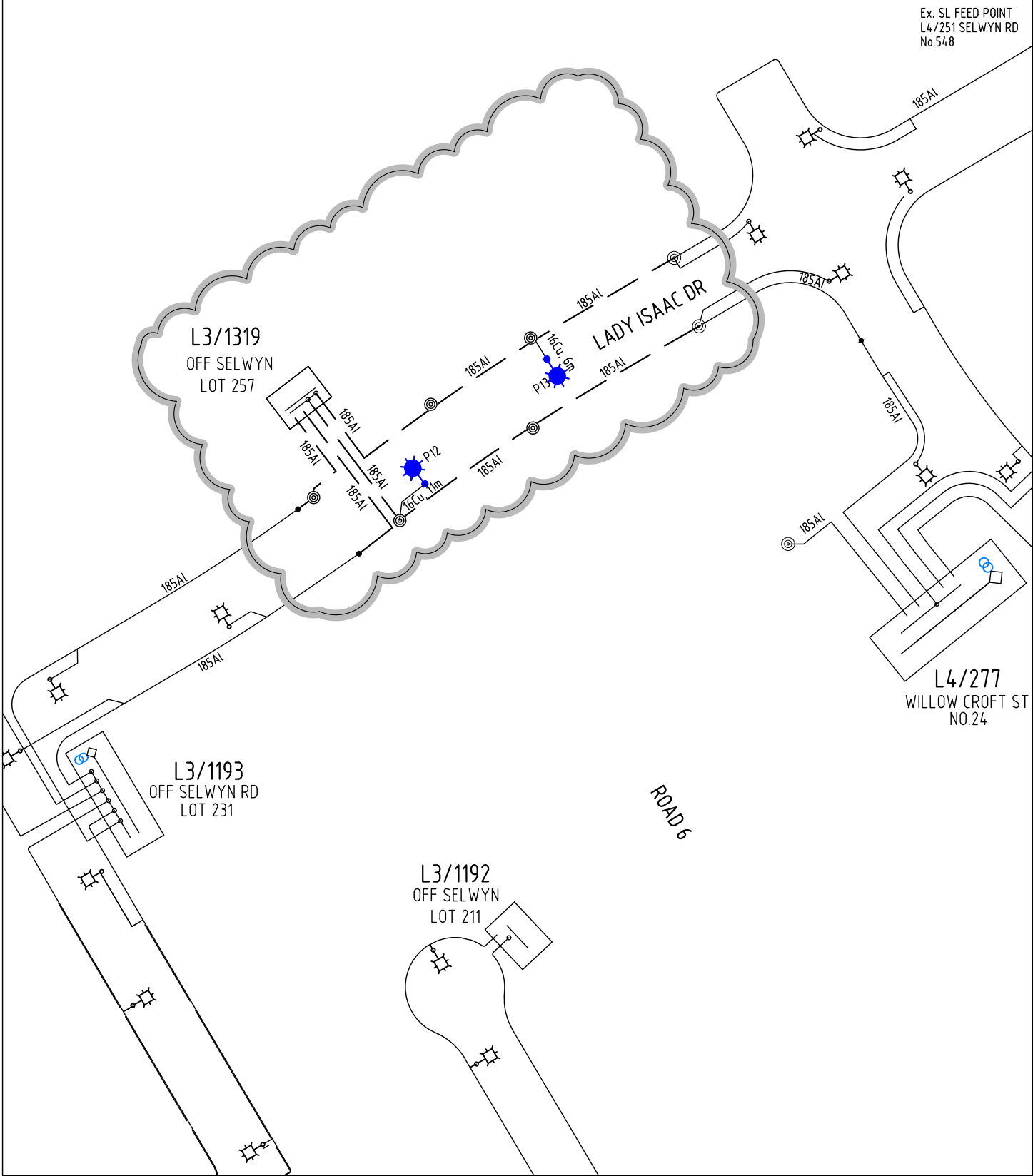


ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	BROADFIELD GRANGE STAGE 14		 ALL WAYS CONNECTING
A	ORIGINAL ISSUE	15/06/26	T.K.	T.K.	M.O.	DESIGNED	T. KOTARA		27/01/26			
B	LOT 187 FEED POINT ADDED	30/09/26	T.K.	T.K.	M.O.	DRAWN	T. KOTARA		27/01/26	RESIDENTIAL SUBDIVISION		SCALE(SIZE)
						CHECKED	M. OPHUIS		23/04/26			
			by Sammy Li	on: 23/10/2026, 11:43		APPROVED				LV SCHEMATIC - EXISTING & PROPOSED		DRAWING NO.
						Orion			B			SHEET
 CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED										NTS (A3)		107822
												S14-LV-01

EXISTING



PROPOSED



- NOTES:
- 1. 10 NEW RESIDENTIAL CONNECTIONS
 - 2. CABLE LENGTHS ARE BASED ON CAD LINE LENGTH AND ARE AN ESTIMATE ONLY.

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	BROADFIELD GRANGE STAGE 14 RESIDENTIAL SUBDIVISION SL SCHEMATIC - EXISTING & PROPOSED		
A	ORIGINAL ISSUE	15/06/26	T.K.	T.K.	M.O.	DESIGNED	T. KOTARA		27/01/26			
						DRAWN	T. KOTARA		27/01/26	connetics ALL WAYS CONNECTING		
						CHECKED	M. OPHUIS		23/04/26			
						APPROVED				SCALE(SIZE)	DRAWING NO.	SHEET
										NTS (A3)	107822	S14-SL-01

ACCEPTED

by Sammy Li on: 23/10/2026 11:10 am

Chris

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UNAUTHORISED USE PROHIBITED

A

Build Quotation for electrical reticulation at:
BROADFIELD GRANGE - STAGE 14
Urban Estates 22 Ltd.
c/o Davie Lovell-Smith (Consultant company)
email: Ben.Fox@dls.co.nz

FROM ORION AUTHORISED ELECTRICAL CONTRACTOR:

Refer to Orion accepted Connetics design dwg 107822 S14, 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 cabinet and boundary boxes
cable terminations and jointing (include all S/L cables)
Test and LVA

3) STREET LIGHTS

Refer to street light design dwg 400440.
Install 2 street lights, including livening and associated documentation

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.
Customer service cable to be supplied and laid by others

Underground Design - Stage 14

Designer:	T. Kotara	Date:	15/06/2026
Design number:	107822	Job name:	Broadfield Grange Stage 14
Approx. start date:		Developer:	
Orions Contract		Design/Build:	
Orion Contact		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	17	
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	312	
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	101	
1003390	300mm Ali 3ph XLPE 11KV	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)	5	
1012376	DB-V (replaces DB-T1)	0	
1001152	Multi Box DC	1	
1000128	Full kiosk	0	
1000129	Half kiosk	0	
1000130	Quarter kiosk	0	

Orion

Design Hazard Assessment Register (HAZID)

Project:

Broadfield Grange - Stage 14

Prepared By:

T. Kotara

Reviewed By:

M. Ophuis

HAZID Phase:

Detailed Design (Includes Modifications)

Date:

15 June 2026

Document:

HAR-1

Status:

Design REV A

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	Coordination problems with multiple staged designs	Moderate	Rare	Low	N/A	Used Orion approved designs as existing network.	Minor	Rare	Low	N/A	No	N/A	
B2		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
C - Construction & Commissioning													
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		
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 Sammy Li

on: 21/06/26, 11:10 am

Orion

APPENDIX A: DESIGN STATEMENT OF ENVIRONMENTAL COMPLIANCE

Work Order:		
Work Title:	Broadfield Grange - Stage 14	
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:	T. Kotara	
Signed:		
Company:	 Connetics by Sammy Li on: 21 10 2026, 11:10 am <i>Sammy Li</i>	
Date:	15/06/2026	

Engineering Design, Connetics Ltd		DOCUMENT TRANSMITTAL SHEET									
PO Box 2237 Christchurch New Zealand. Ph. (03) 353 7200											
DRAWING ISSUE DETAILS											
		DATE	18/08/26	29/09/26							
DWG No.	SHEET	DRAWING DETAIL	ISSUE								
107822	S11-WIS-01	Work Instruction Sheet	A								
107822	S11-HV-01	HV Schematics	A								
107822	S11-LV-01	LV Schematics	A	B							
107822	S11-SL-01	SL Schematics	A								
107822	S11-CP-01	Cable Plan	A								
107822	S11-CP-02	Cable Plan	A	B							
		Pricing Sheet - Stage 11									
		Design Quantities - Stage 11		B							
	HAR-1	HAZID	A								
		Design Statement of Environmental Compliance									
400440	1-2	Lighting design									
		Trench cross section									
Notes: Rev B - Lot 187 feed point removed			BROADFIELD GRANGE STAGE 11								
ACCEPTED by Sammy Li on: 05 10 2026, 10:46 am Sammy Li Orion			RESIDENTIAL SUBDIVISION				JOB No.		SHEET		
							107822		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 Broadfield Grange Stage 11, refer to Connetics Stage 11 working drawings 107822, HV, LV & SL schematics

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

PREPARED BY:

T. Kotara

DATE PREPARED:

23/06/2026

ORION CONTRACT MANAGER

ES NUMBER:

WORK ORDER NUMBER:

SUBSTATION DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
OFF SELWYN RD LOT 248 - L3/1303						
Ex. 3K1T MSU			185Al 3C 11kV	New	Willow Croft St No.24 cct53	Existing full kiosk with 3K1T MSU & 200kVA transformer.
	Links	51				Terminate and connect new cable, label circuit destination.
Ex. LV PANEL			185Al 3C+1 CuNS LV	New	Off Selwyn Lot 236 cct.2	Existing 800A LV DIN panel.
630A	355Amp fuses	1				Relabel circuit destination.
630A	355Amp fuses	2				Relabel circuit destination.
	Generator Way	Gen.				Fit Generator spare way cover kit.

Street lighting: Terminate 2 SL cables

WILLOW CROFT ST NO.24 - L4/277

Ex. MSU			185Al 3C 11kV	Ex.	Off Selwyn Rd Lot 248 cct.51	Relabel one HV & two LV circuit destinations.
	Open	53				Relabel circuit destination. Leave open.
Ex. LV PANEL			185Al 3C+1 CuNS LV	Ex.	Off Selwyn Lot 190 cct.2	
630A	355Amp fuses	6				Relabel circuit destination.
630A	355Amp fuses	7	185Al 3C+1 CuNS LV	New	Off Selwyn Lot 236 cct.1	Terminate and connect new cable, label circuit destination.

Street lighting: Terminate 1 SL cables

DISTRIBUTION CABINET DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
OFF SELWYN LOT 236 - L3/1302						
630A	Open	1	185Al 3C+1 CuNS LV	New	Willow Croft St No.24 cct.7	Install new distribution cabinet (M1). Equip with two ways.
630A	Links	2	185Al 3C+1 CuNS LV	New	Off Selwyn Rd Lot 248 cct.1	Terminate and connect new cable, label circuit destination.
OFF SELWYN LOT 190 - L3/1303						
630A	Links	1	185Al 3C+1 CuNS LV	New	Off Selwyn Rd Lot 248 cct.2	Install new distribution cabinet (M1). Equip with two ways.
630A	Open	2	185Al 3C+1 CuNS LV	New/Ex.	Willow Croft St No.24 cct.6	Terminate and connect new cable, label circuit destination.

Notes:

Accepted For Construction

Name:

Position:

Date:



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A

**BROADFIELD GRANGE
STAGE 11**

RESIDENTIAL SUBDIVISION



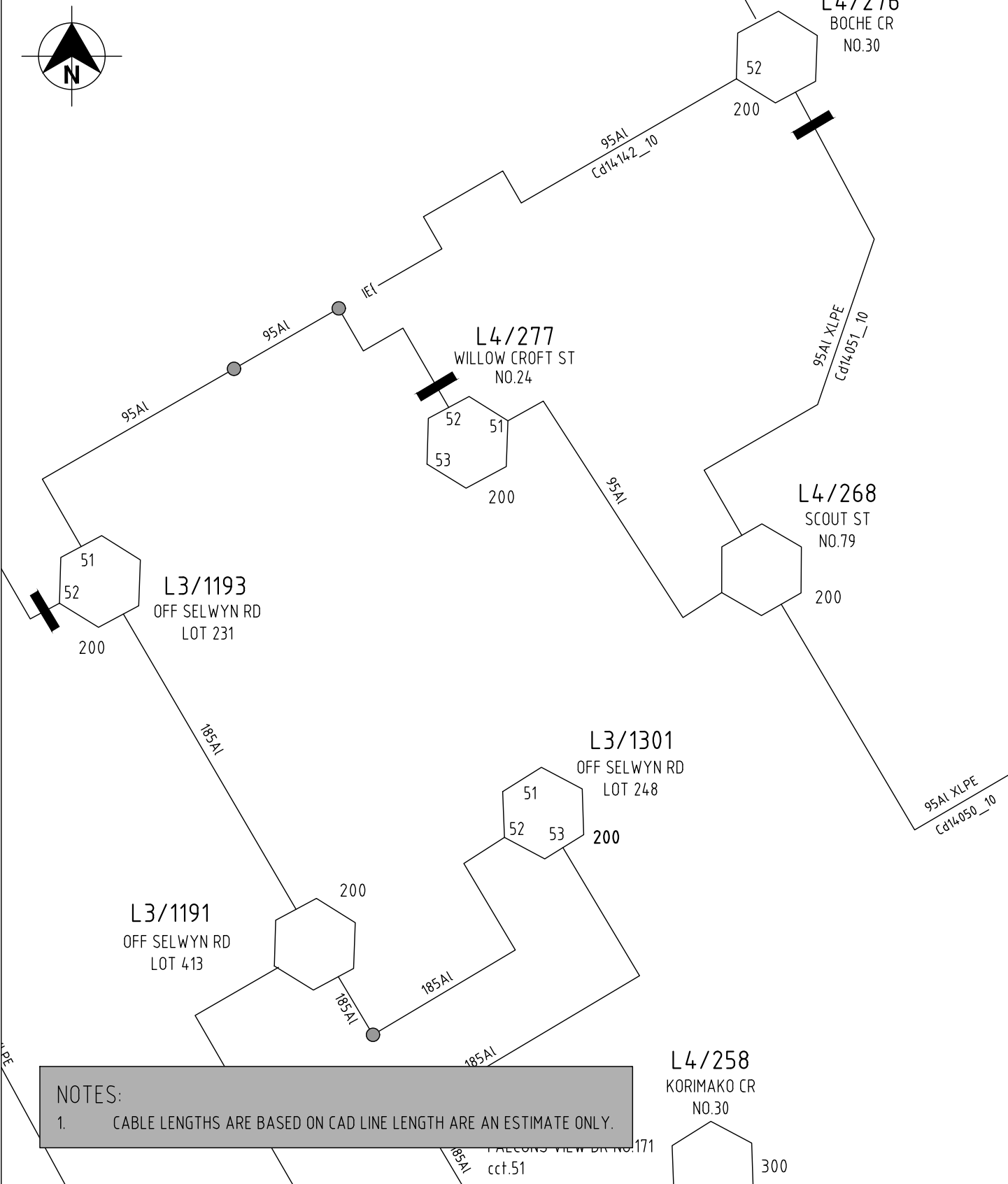
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Sheet

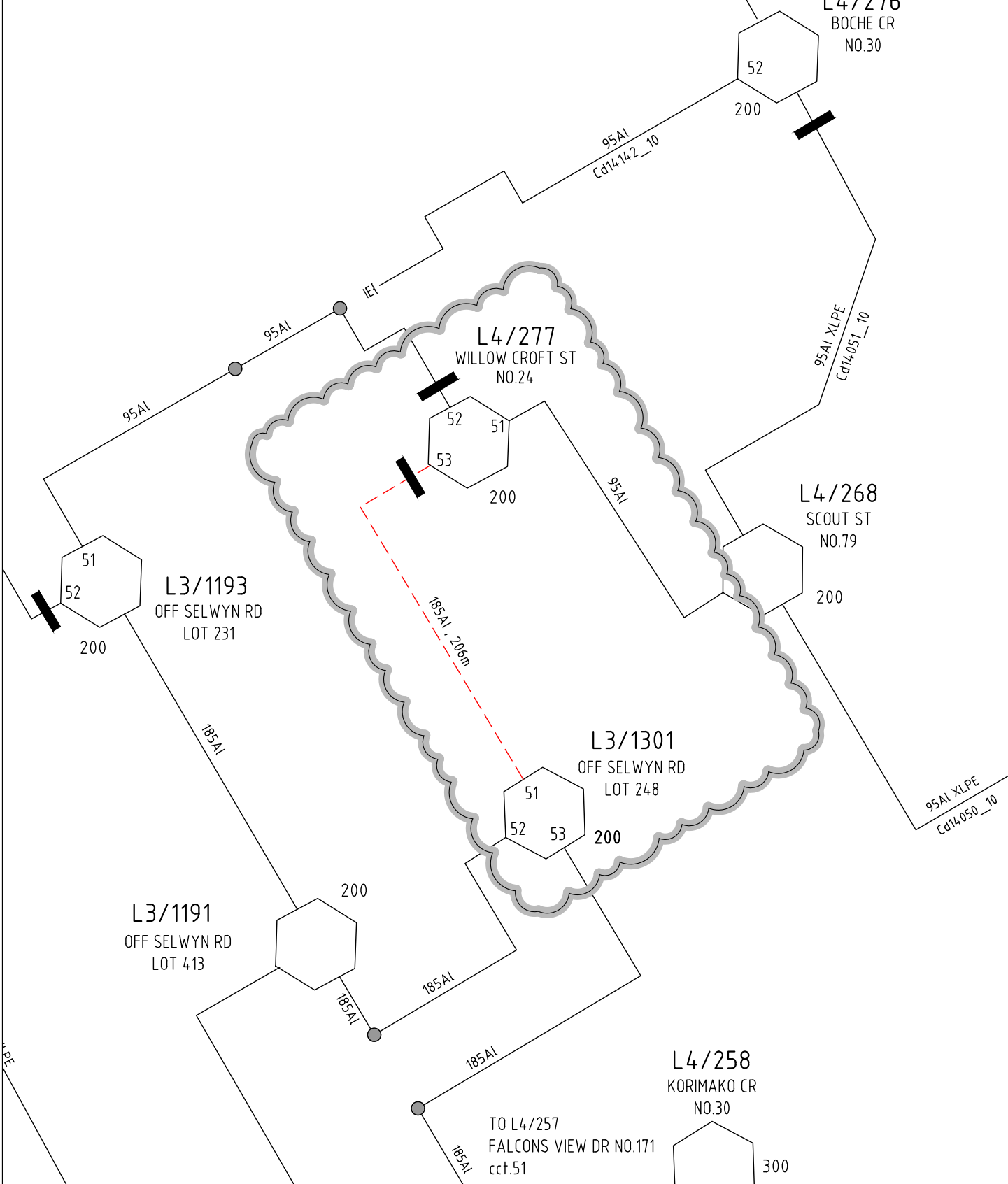
107822

S11-WIS-01

EXISTING



PROPOSED



NOTES:
1. CABLE LENGTHS ARE BASED ON CAD LINE LENGTH ARE AN ESTIMATE ONLY.

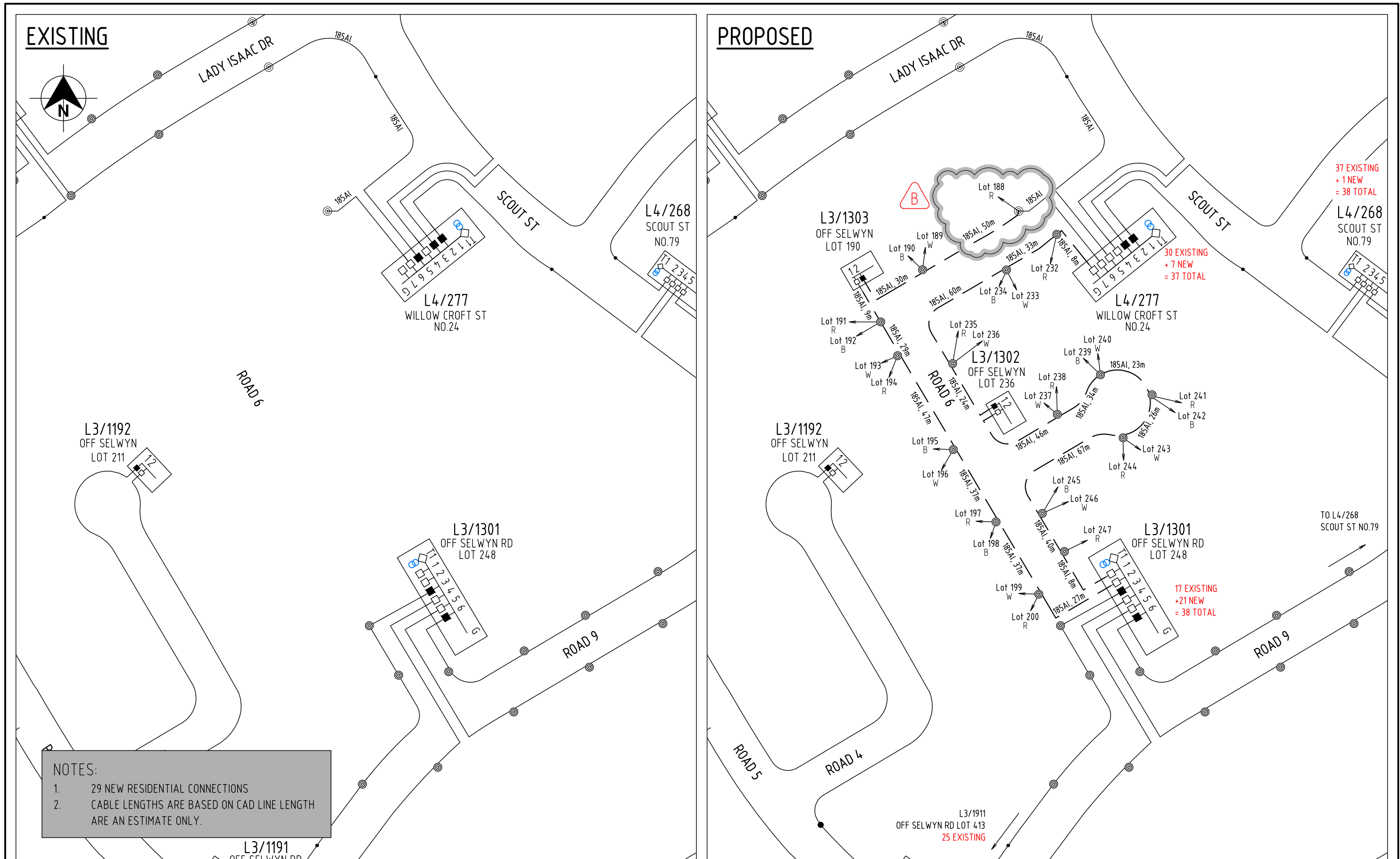
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A	ORIGINAL ISSUE	23/06/26	T.K.	T.K.	N.J.	DESIGNED	T. KOTARA		27/01/26
						DRAWN	T. KOTARA		27/01/26
						CHECKED	N. JARRETT		18/06/26
						APPROVED			
							CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		

BROADFIELD GRANGE STAGE 11

RESIDENTIAL SUBDIVISION
HV SCHEMATIC - EXISTING & PROPOSED



SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	107822	S11-HV-01



ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	BROADFIELD GRANGE STAGE 11 RESIDENTIAL SUBDIVISION LV SCHEMATIC - EXISTING & PROPOSED	 ALL WAYS CONNECTING
A	ORIGINAL ISSUE	13/08/26	T.K.	T.K.	N.J.	DESIGNED	T. KOTARA		27/01/26		
B	LOT 187 FEED POINT REMOVED	30/09/26	T.K.	T.K.	M.O.	DRAWN	T. KOTARA		27/01/26		
						CHECKED	N. JARRETT		18/06/26		
						APPROVED					
						ORN1032953	 CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		B		

ACCEPTED

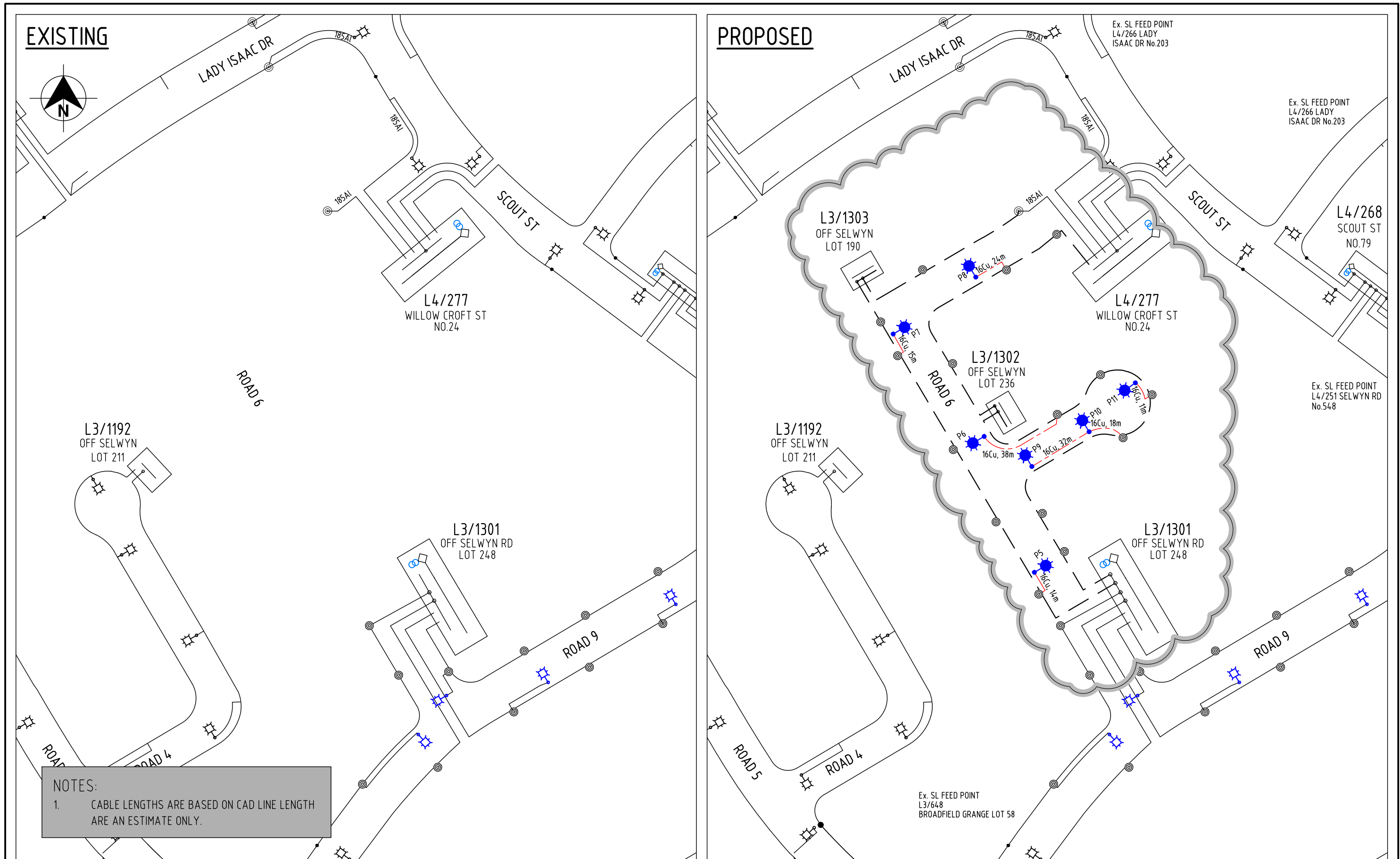
by: *Sammy Li* on: 05-10-2026, 10:47 am

Sammy Li Orion

SCALE(SIZE) NTS (A3)

DRAWING NO. 107822

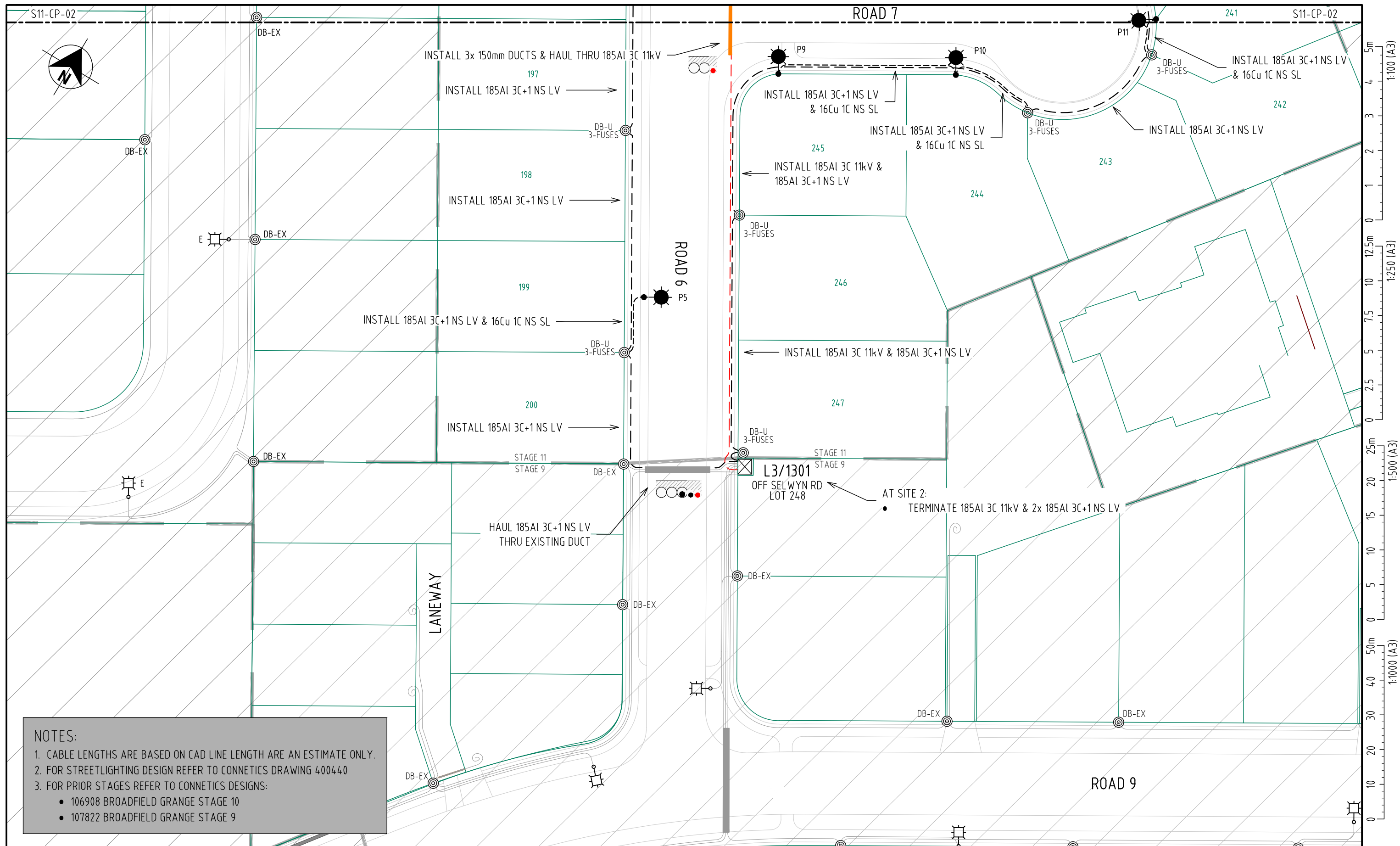
SHEET S11-LV-01



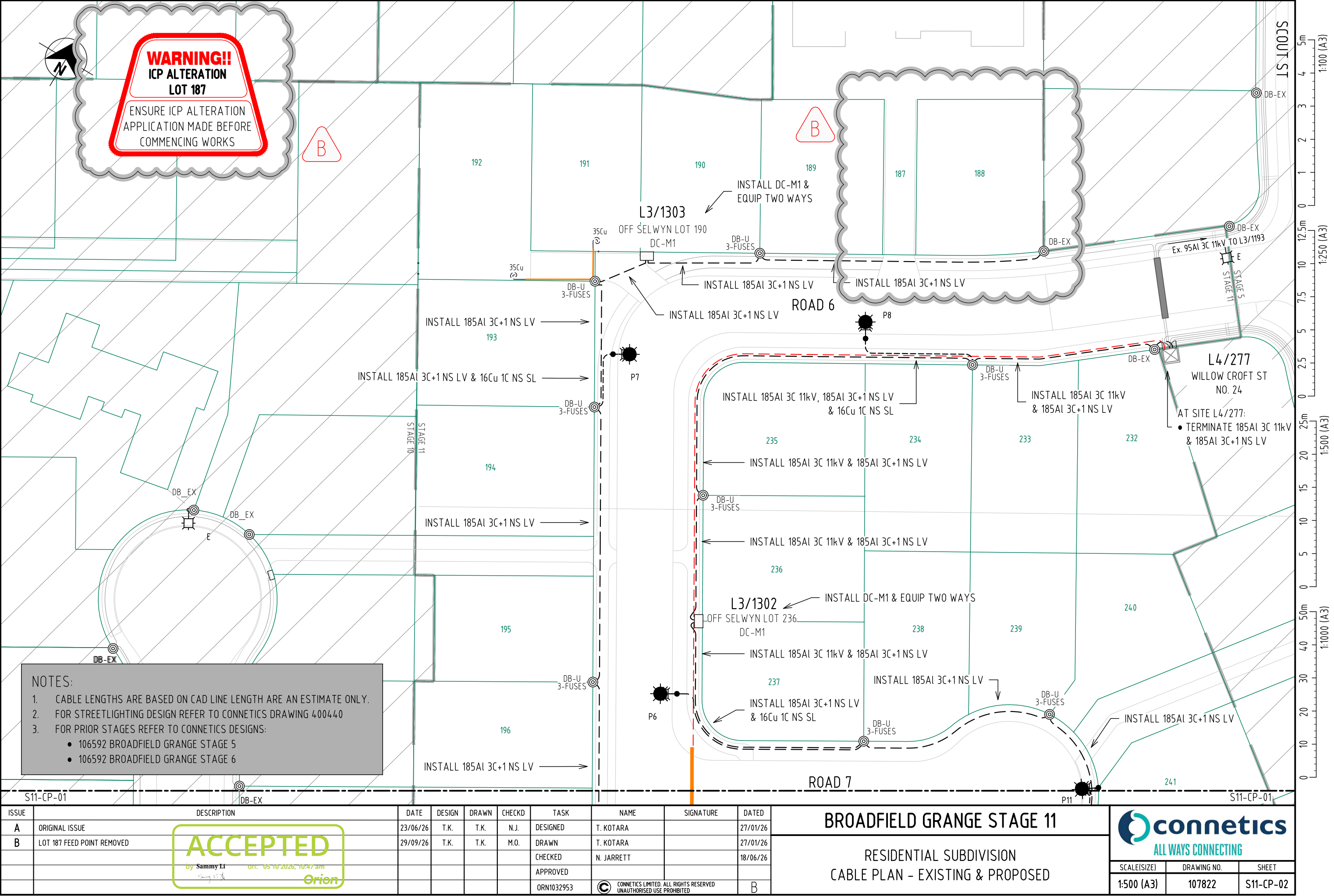
NOTES:

1. CABLE LENGTHS ARE BASED ON CAD LINE LENGTH
ARE AN ESTIMATE ONLY.

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	BROADFIELD GRANGE STAGE 11 RESIDENTIAL SUBDIVISION SL SCHEMATIC - EXISTING & PROPOSED		
A	ORIGINAL ISSUE	13/08/26	T.K.	T.K.	N.J.	DESIGNED	T. KOTARA		27/01/26			
						DRAWN	T. KOTARA		27/01/26	connetics ALL WAYS CONNECTING		
						CHECKED	N. JARRETT		18/06/26			
						APPROVED						
						ORN1032953	CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A			
										SCALE(SIZE) NTS (A3)		
										DRAWING NO. 107822		
										SHEET S11-SL-01		



ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED	BROADFIELD GRANGE STAGE 11			connetics ALL WAYS CONNECTING		
A	ORIGINAL ISSUE	13/08/26	T.K.	T.K.	N.J.	DESIGNED	T. KOTARA		27/01/26	RESIDENTIAL SUBDIVISION CABLE PLAN - EXISTING & PROPOSED			SCALE(SIZE)	DRAWING NO.	SHEET
						DRAWN	T. KOTARA		27/01/26				1:500 (A3)	107822	S11-CP-01
						CHECKED	N. JARRETT		18/06/26						
						APPROVED									
						ORN1032953	CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED			A					



Build Quotation for electrical reticulation at:
BROADFIELD GRANGE - STAGE 11
Urban Estates 22 Ltd.
c/o Davie Lovell-Smith (Consultant company)
email: Ben.Fox@dls.co.nz

FROM ORION AUTHORISED ELECTRICAL CONTRACTOR:

Refer to Orion accepted Connetics design dwg 107822 S11, 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 Windsor Urban street light design dwg 400440.
Install 7 street lights, including livening and associated documentation

4) CUSTOMER SERVICE CABLES

Lay in customer service cable as per cable plan & LV schematics

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.

Underground Design - Stage 11

Designer:	T. Kotara	Date:	29/09/2026
Design number:	107822	Job name:	Broadfield Grange Stage 11
Approx. start date:		Developer:	
Orions Contract		Design/Build:	
Orion Contact		Design Only:	YES

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	152	
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	20	
1003407	35mm Cu 3ph NS LV	0	Rev B - Lot 187 feed point removed
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	635	Rev B - Lot 187 feed point removed
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	206	
1003390	300mm Ali 3ph XLPE 11KV	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)	14	Rev B - Lot 187 feed point removed
1012376	DB-V (replaces DB-T1)	0	
1001152	Multi Box DC	2	
1000128	Full kiosk	0	
1000129	Half kiosk	0	
1000130	Quarter kiosk	0	

Orion

Design Hazard Assessment Register (HAZID)

Prepared By: T. Kotara

Reviewed By: N. Jarrett

HAZID Phase: Detailed Design (Includes Modifications)

Date: 23 June 2026

Document: HAR-1

Status: Design REV A

Project: Broadfield Grange - Stage 11

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

ID	Risk/Hazard & Cause - Inherent & Without Any Form of Mitigation	Inherent Consequence	Inherent Likelihood	Inherent Risk Rating
----	---	----------------------	---------------------	----------------------

Proposed Risk Treatment/Mitigation Measures & Residual Risk Ratings

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?
------------	---	---------------------	--------------------	----------------------	-----------------------------------	--

Notes to Residual Risk (Which Must be So Far As Is Reasonably Practicable and Manageable)

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	
B2	Coordination problems with multiple staged designs	Moderate	Rare	Low	N/A	Orion approved designs of previous stages to be treated as constructed and considered as existing network.	Minor	Rare	Low	N/A	No	N/A	
B3		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	

C - Construction & Commissioning

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 Sammy Li

on: 05 10 2026, 10:47 am

Orion

APPENDIX A: DESIGN STATEMENT OF ENVIRONMENTAL COMPLIANCE

Work Order:			
Work Title:	Broadfield Grange - Stage 11		
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:	T. Kotara		
Signed:			
Company:	Connetics		
Date:	23/06/2026		

ACCEPTED

by **Sammy Li** on: 05/10/2026, 10:47 am

 **Orion**