Engineering Design, Connetics Ltd

DOCUMENT TRANSMITTAL SHEET

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

DRAWING ISSUE DETAILS

		DATE	24/03/26	28/04/26							
DWG No.	**SHEET**	**DRAWING DETAIL**	**ISSUE**	**ISSUE**							
107924	WIS-1	Work Instruction Sheet	A	B							
107924	HV-1	HV Schematics - Existing & Proposed	A	B							
107924	LV-1	LV Schematics - Existing & Proposed	A	B							
107924	SL-1	SL Schematics - Existing & Proposed	A	B							
107924	CP-1	Cable Plan	A	B							
		Pricing Sheet									
	HAR-1	HAZID	A	A							
		Design Statement of Environmental Compliance									
		Streetlight Design									

Notes:

ACCEPTED
by Peter Johnson on: 05 05 2026, 11:07 am
Orion

190 & 192 HAMPTONS ROAD

connetics

STAGE 6A
RESIDENTIAL SUBDIVISION

JOB No.	SHEET
107924	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 190 & 192 Hamptons Rd, refer to Connetics working drawings 107924, 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:	Needhu Paul
DATE PREPARED:	28/04/2026
ORION CONTRACT MANAGER:	
ES NUMBER:	
WORK ORDER NUMBER:	ORN1027776

SUBSTATION DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
GUINEA DR NO.20 C13/1031						
EX 3K1T MSU						Ex full kiosk with 3K1T MSU & 200kVA transformer
	Links	**51**	**185Al 3C 11kV**	**Ex**	**Insulated End - Stage Boundary**	Relabel circuit destination.
Ex 800A DIN TYPE LV PANEL						
630A	**Ex**	**2**	**185Al 3C+1 CuNS LV**	**Ex**	**Lot 298 DB**	Relabel circuit destination.
630A	**Ex**	**3**	**185Al 3C+1 CuNS LV**	**Ex**	**Insulated End - Stage Boundary**	Relabel circuit destination.

Notes: STAGE BOUNDARY CHANGED. REMOVED PROPOSED KIOSK

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by Peter Johnson on: 05 05 2026, 11:07 am
Orion

Accepted For Construction

Name:

Position:

Date:

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ISSUE B

190 & 192 HAMPTONS ROAD

STAGE 6A
RESIDENTIAL SUBDIVISION

connetics
ALL WAYS CONNECTING

JOB No.	Sheet
107924	WIS-1



ACCEPTED
by Peter Johnson on: 05 05 2026, 11:08 am
Orion

AMENDMENTS :

AMENDMENT	DATE	DESCRIPTION
R4	23.11.25	ROW's and surrounding boundaries updated
R5	01.12.25	Lots 307, 308, 311, 312 & 339-342 updated
R6	02.03.26	Easement added Lot 330
R7	30.03.26	Staging updated

NOTES :

1. Areas and dimensions are subject to final survey and deposit of plans.
2. Service easements to be created as required.
3. This plan has been prepared for discussion purposes only. No liability is accepted if the plan is used for any other purpose.
4. This plan has been prepared for the use of our client and no liability is accepted in relation to any other parties.
5. Any measurements taken from information which is not dimensioned on the electronic copy are at the risk of the recipient.
6. This plan is subject to the granting of subdivision and/or resource consents and should be treated as a proposal until such time as the necessary consents have been granted by the relevant authorities.
7. All sites to be limited to 1 dwelling by Consent Notice.

16m x 23m Squares

Proposed Memorandum of Easements

Purpose	Servient Tenement (Burdened Land) Lot No	Shown	Dominant Tenement (Benefited Land)
Right of way, rights to drain water & sewage & rights to convey water, electricity & telecommunications.	307	A	Lot 308
	308	B	Lot 307
	311	C	Lot 312
	312	D	Lot 311
	315	E	Lot 316
	316	F	Lot 315
	325	G	Lot 326
	326	H	Lot 325
Right to drain sewage	330	I	Lot 329

SCHEDULE OF AREAS

Description	Area
Residential Lots - (Lots 294 - 342)	2.2243ha
Road to vest in SDC - (Lots 416 - 420)	8042m²
Reserves to vest in SDC - (Lots 506 & 507)	551m²
Total Area :	3.0848ha
Comprised in:	RT Yet to Issue

DAVIE LOVELL-SMITH
PLANNING SURVEYING ENGINEERING
116 Wrights Road P O Box 679 Christchurch 8140. New Zealand
Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:

Hamptons Road Prebbleton

SHEET TITLE:

Proposed Subdivision of Lot 1000 RC.....

DRAWING STATUS

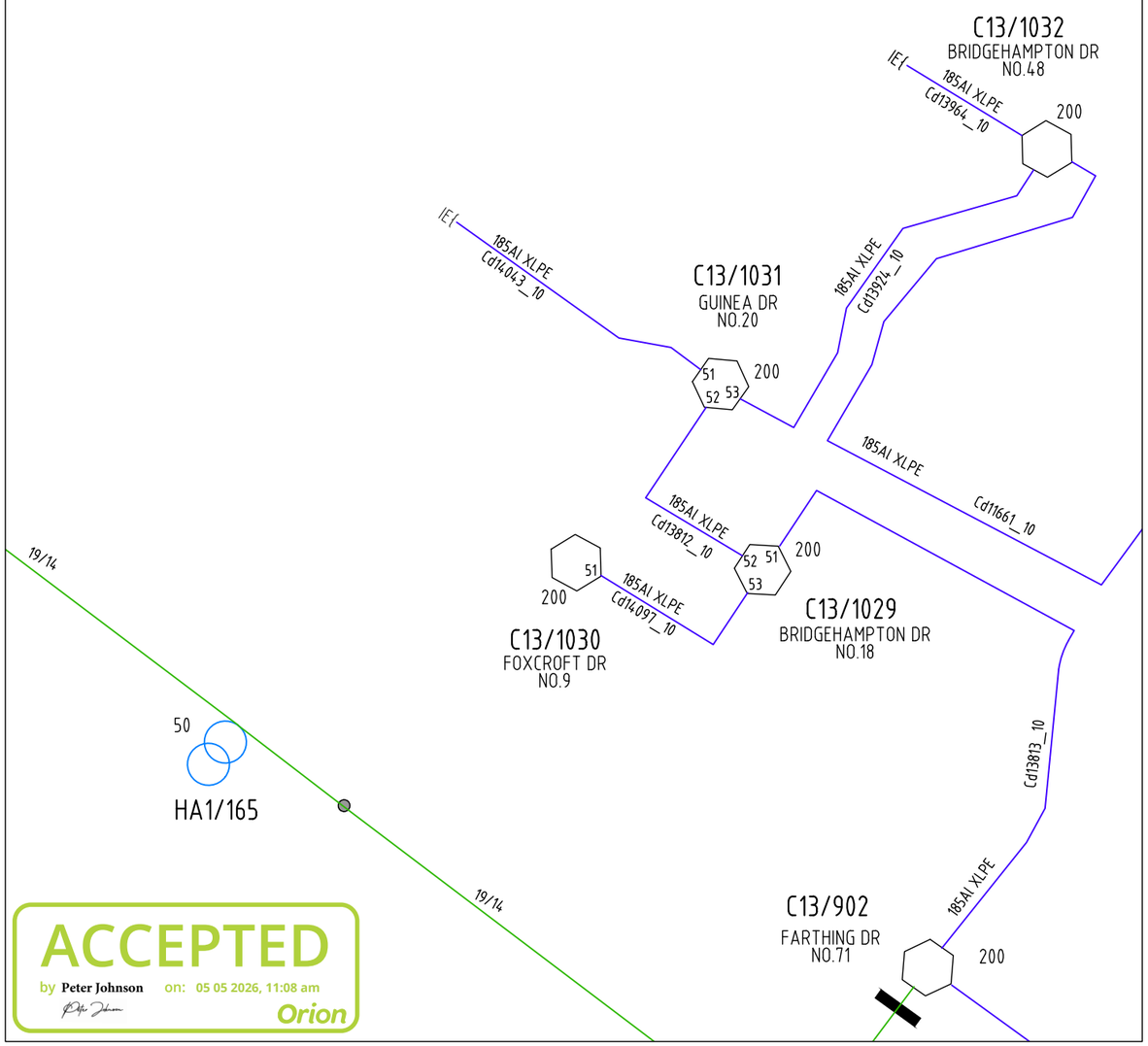
Proposed Subdivision

SCALE : 1:1250@A3 DATE : March 2026

CAD FILE : J:\21448\SUBCON\E21448 190 Hamptons Subcon R7.dwg

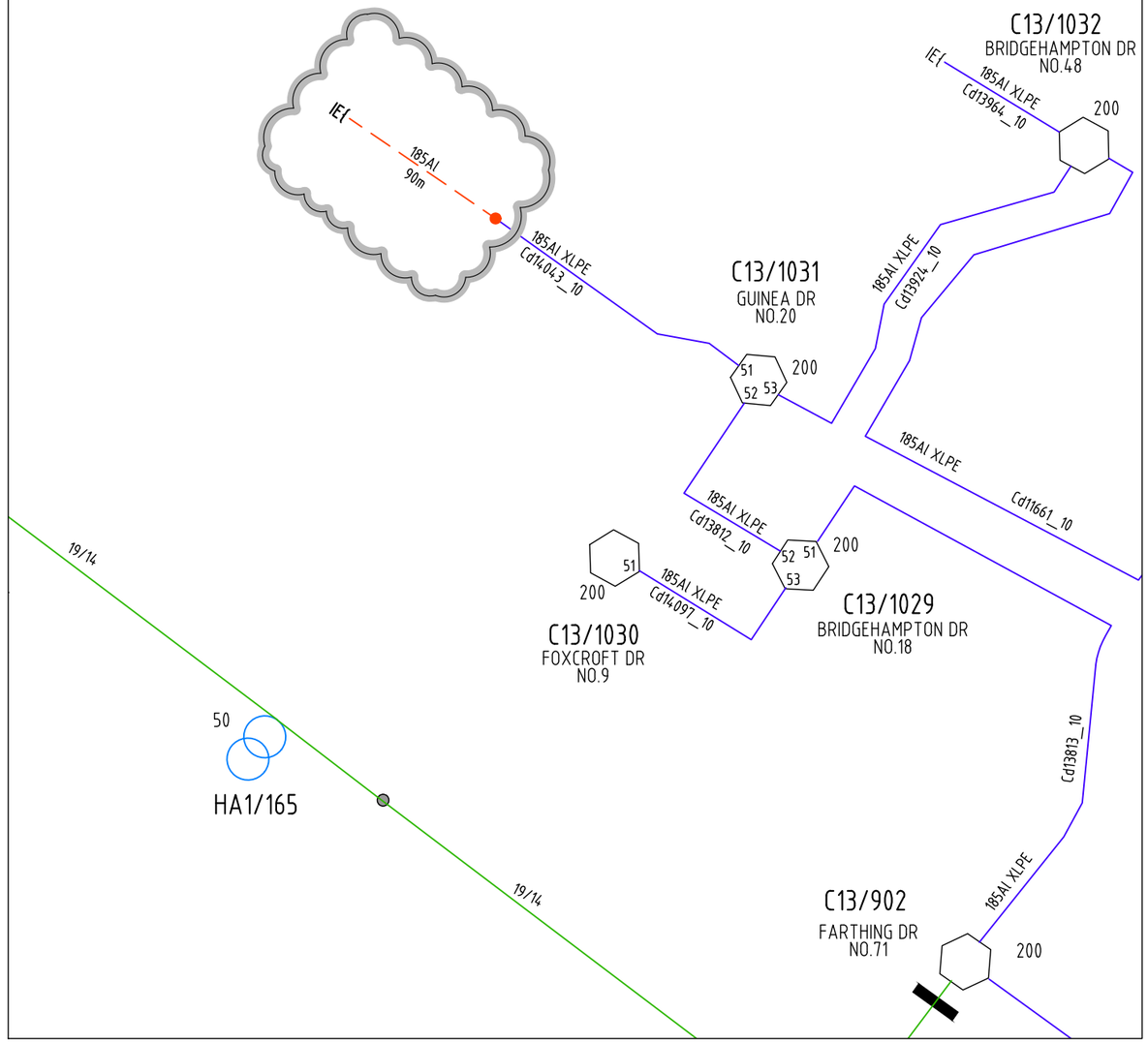
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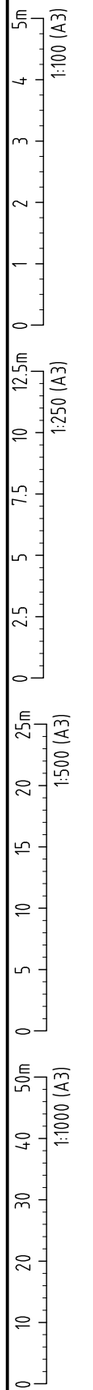
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PROPOSED





ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	24/03/26	N.P	N.P	N.H
B	STAGE BOUNDARY CHANGED, REMOVED PROPOSED KIOSK	28/04/26	N.P	N.P	M.O

TASK	NAME	SIGNATURE	DATED
DESIGNED	N.PAUL		03/03/26
DRAWN	N.PAUL		03/03/26
CHECKED	N.HOPKINSON		16/03/26
APPROVED			

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B

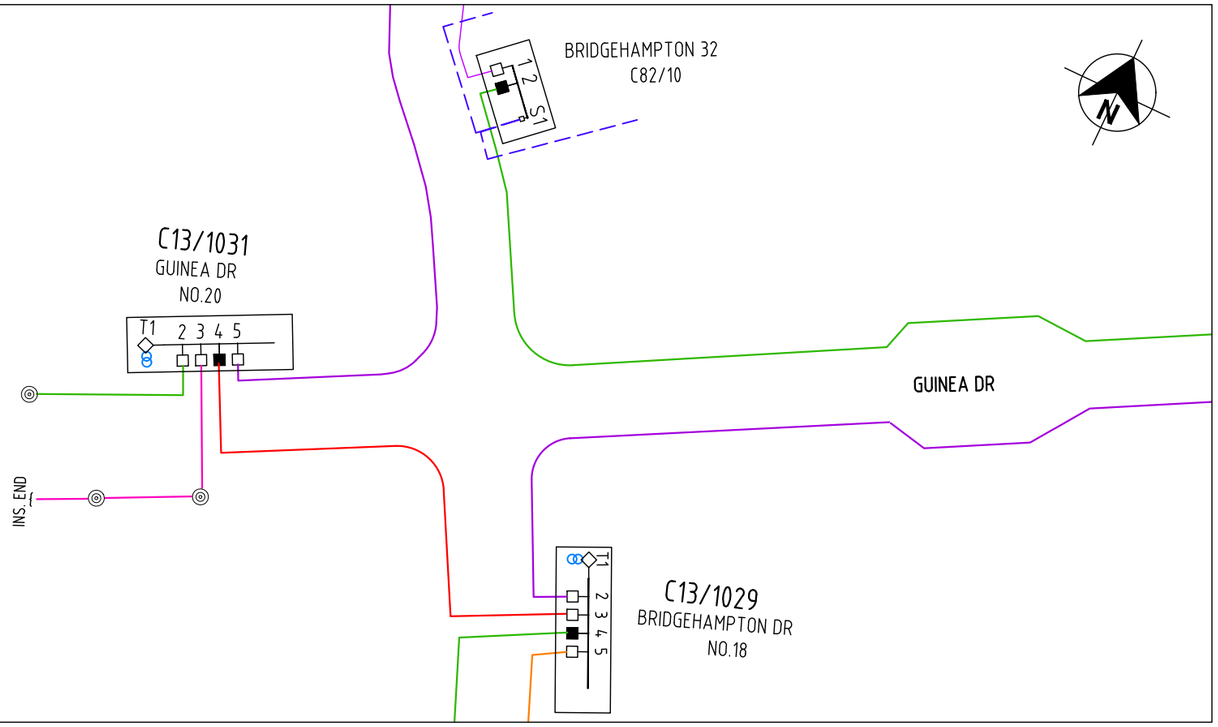
190 & 192 HAMPTONS ROAD - STAGE 6A

RESIDENTIAL SUBDIVISION
HV SCHEMATICS - EXISTING & PROPOSED

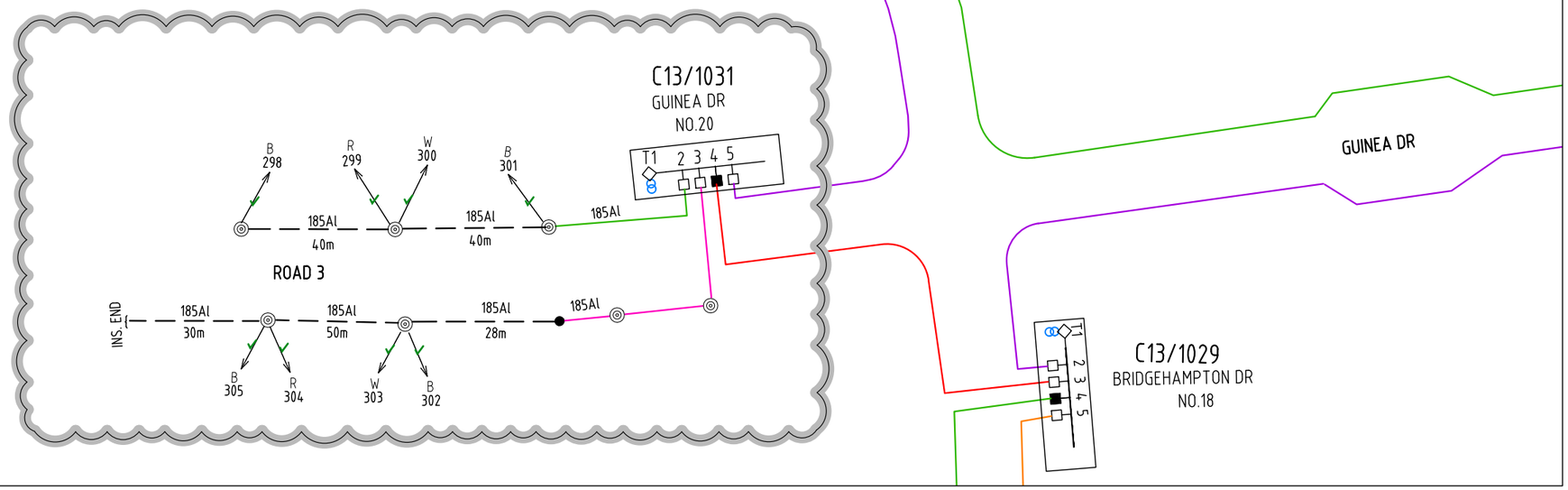
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SCALE(SIZE)	DRAWING NO.	SHEET
NTS(A3)	107924	HV-1

EXISTING



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ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	24/03/26	N.P	N.P	N.H
B	STAGE BOUNDARY CHANGED. REMOVED PROPOSED KIOSK	28/04/26	N.P	N.P	M.O

TASK	NAME	SIGNATURE	DATED
DESIGNED	N.PAUL		03/03/26
DRAWN	N.PAUL		03/03/26
CHECKED	N.HOPKINSON		16/03/26
APPROVED			
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190 & 192 HAMPTONS ROAD - STAGE 6A

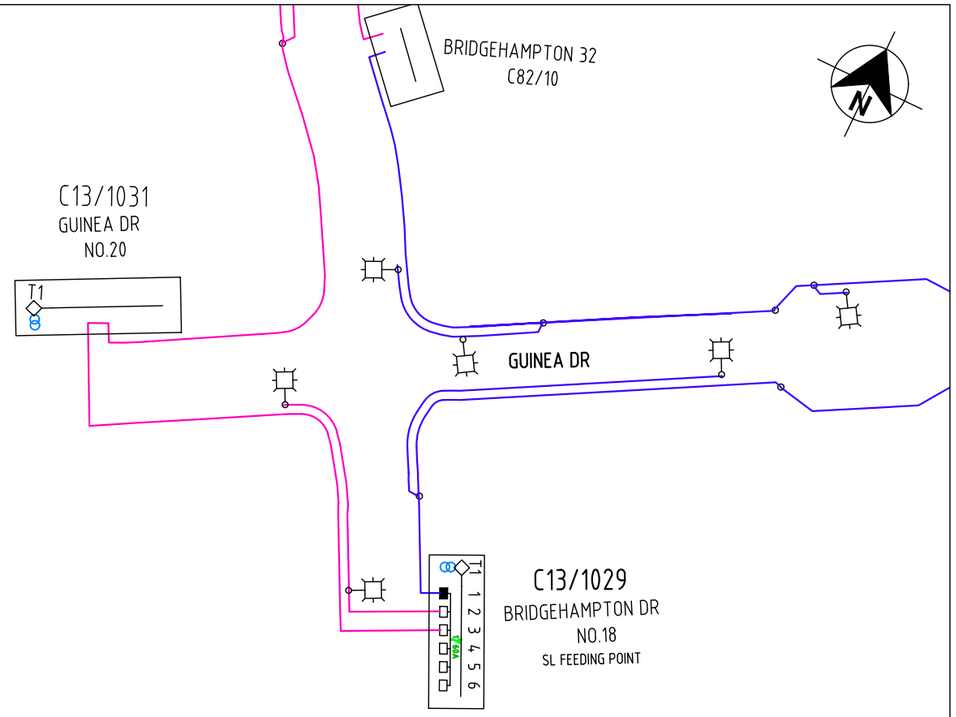
RESIDENTIAL SUBDIVISION
LV SCHEMATICS - EXISTING & PROPOSED

connetics
ALL WAYS CONNECTING

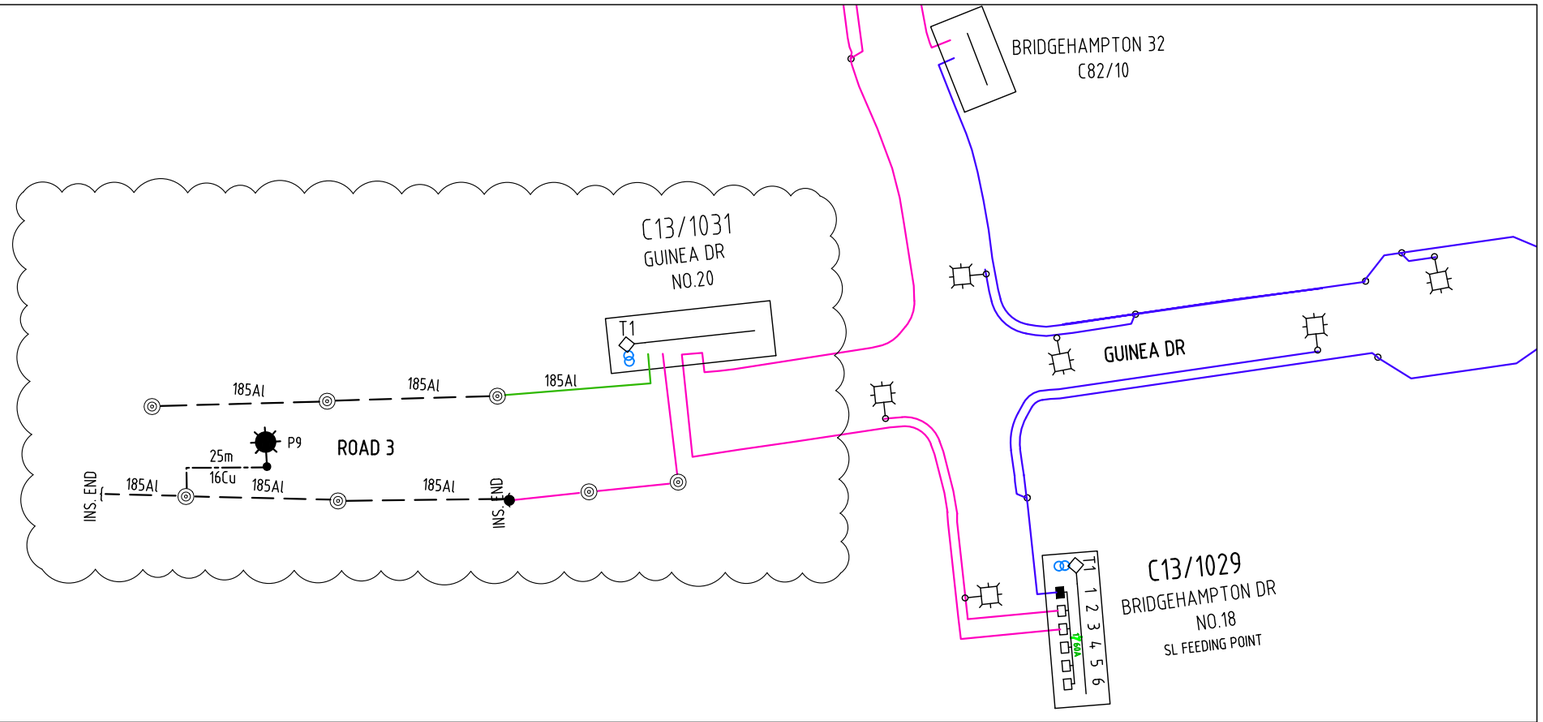
SCALE(SIZE)	DRAWING NO.	SHEET
NTS(A3)	107924	LV-1

1:100 (A3) 0 1 2 3 4 5m
1:250 (A3) 0 2.5 5 7.5 10 12.5m
1:500 (A3) 0 5 10 15 20 25m
1:1000 (A3) 0 10 20 30 40 50m

EXISTING



PROPOSED



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NOTES:

1. REFER TO STREETLIGHTING DESIGN LAYOUT 400453 - THE HAMPTONS SUB-DIVISION STAGE 6A-B-C PREBBLETON

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	24/03/26	N.P	N.P	N.H
B	STAGE BOUNDARY CHANGED. REMOVED PROPOSED KIOSK	28/04/26	N.P	N.P	M.O

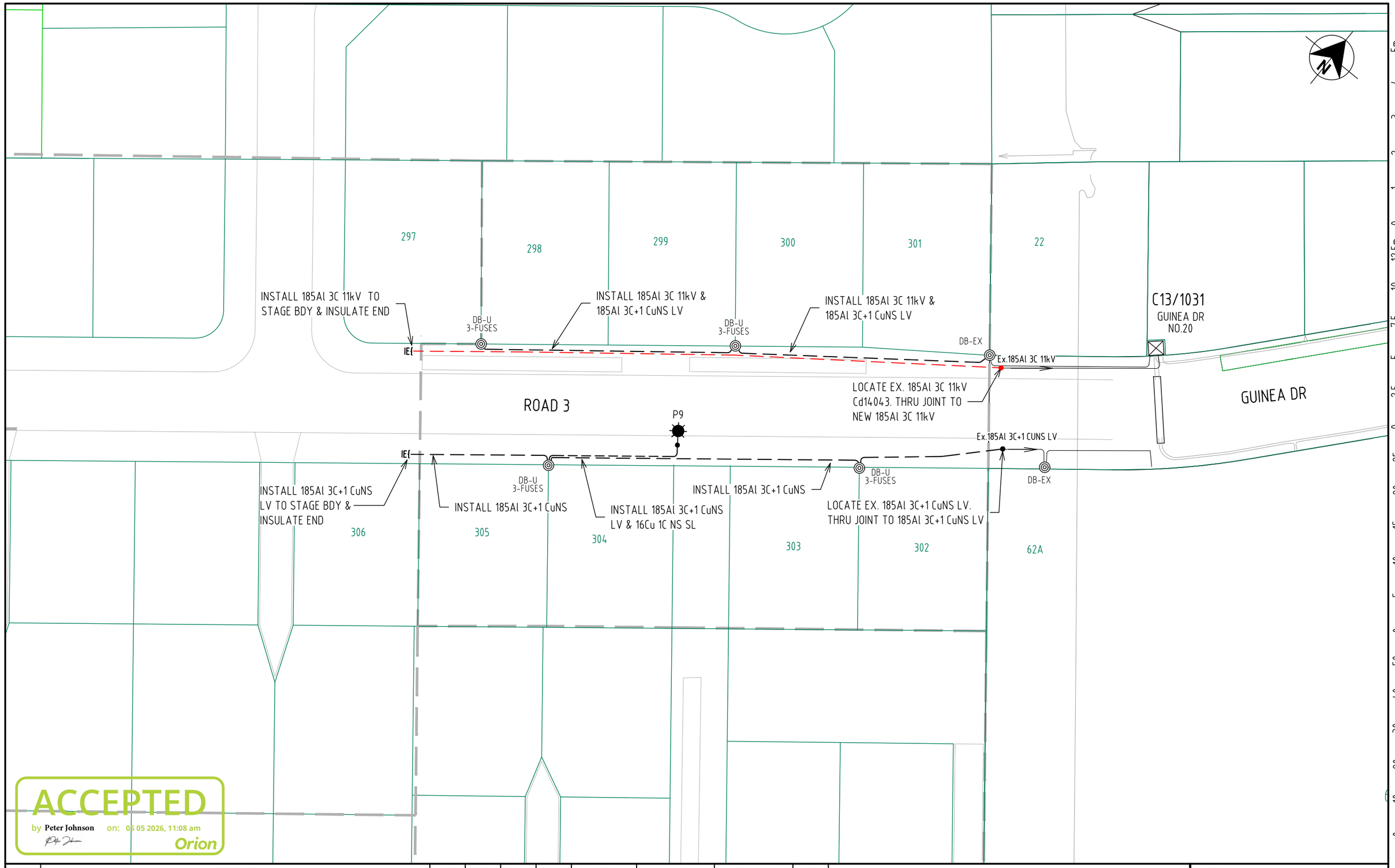
TASK	NAME	SIGNATURE	DATED
DESIGNED	N.PAUL		03/03/26
DRAWN	N.PAUL		03/03/26
CHECKED	N.HOPKINSON		16/03/26
APPROVED			
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190 & 192 HAMPTONS ROAD - STAGE 6A

RESIDENTIAL SUBDIVISION
SL SCHEMATICS - EXISTING & PROPOSED

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SCALE(SIZE)	DRAWING NO.	SHEET
NTS(A3)	107924	SL-1



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by Peter Johnson on: 05 05 2026, 11:08 am
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ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	24/03/26	N.P	N.P	N.H
B	STAGE BOUNDARY CHANGED. REMOVED PROPOSED KIOSK	28/04/26	N.P	N.P	M.O

TASK	NAME	SIGNATURE	DATED
DESIGNED	N.PAUL		03/03/26
DRAWN	N.PAUL		03/03/26
CHECKED	N.HOPKINSON		16/03/26
APPROVED			

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190 & 192 HAMPTONS ROAD - STAGE 6A

RESIDENTIAL SUBDIVISION
CABLE PLAN

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SCALE(SIZE)	DRAWING NO.	SHEET
1:500(A3)	107924	CP-1

Design Hazard Assessment Register (HAZID)

Project:	190 & 192 HAMPTONS RD -STAGE 6A	Prepared By:	Needhu Paul
		Reviewed By:	N.Hopkinson
		HAZID Phase:	Detailed Design (Includes Modifications)
		Date:	16/36/2026
		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		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
C - Construction & Commissioning													
C1	Timing of Project	Moderate	Possible	Medium	Contractor	Take appropriate measures to ensure drawings match with what on site	Serious	Likely	Very High	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

DOCUMENT TRANSMITTAL NOTICE

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ALL WAYS CONNECTING
DESIGN + ENGINEERING

Project The Hamptons Sub-Division - Stage 6A-B-C

Project No 4016915

Discipline Lighting Design

Page 1 of 1

	Date of Issue									
Year	26	26								
Month	2	2								
Day	23	24								

Doc. No.	Document Title	Rev	Issue								
400453	The Hamptons Sub-Division Stage 6A-B-C - Sheet 1	B	A	B							
400453	The Hamptons Sub-Division Stage 6A-B-C - Sheet 2	B	A	B							
	Pole Offset drawing										
400453	Autocad DWG Format	B	A	B							
	Producer Statement										
	Design Report										
	Street Lighting Specification										
	17.0M Road - Road 1 & 3 - Single Sided										
	17.0M Road - Road 1 & 3 - Staggered										
	17.0M Road - Road 2 & 4 - Single Sided										
	17.0M Road - Road 2 & 4 - Staggered										
	20.0m Road - Hamptons Road - Single Sided										
	Windsor Urban - Poles Drawing - Pole L1										
	Windsor Urban - Poles Drawing - Pole L2										
	Windsor Urban - Pole Producer Statement										
	Pole Structural Compliance Certificate - Windsor Urban										
224	Lighting Completion Form (Connetics)										
	Lighting Completion Form (Installer)										
	Orion Test Certificate										
	Certificate of Compliance										
	As-Built Drawings										
	Earth Test Certificate										

DELIVERY - Company Name	Attention	COPIES								
Davie Lovell-Smits	Ben Fox	#	#							
Windsor Urban Ltd.	Marcus Brandrick	#	#							
Selwyn District Council (Representative)	Brendan Hayman									
Connetics Ltd.	RAMM Data Entry									
Reason For Issue		P	P							

***P** - Preliminary / **A** - Approval / **T** - Tender / **C** - Construction / **X** - 224 / **RQ** -Requested*

Document Type Symbol

PDF	#
A4 Copy	*
A3 Copy	**
A1 Copy	***

Connetics Ltd

11 Islington Avenue
Islington
Christchurch 8042

P: (03) 353 7200
F: (03) 353 7201
E: www.connetics.co.nz

LIGHTING SCHEDULE

L1 Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 5)
Luminaire: Philips Roadgrace 18W LED luminaire (BRP711 LED23NW 18W DWP) 4000K, Color: Black
Column: 7.5m SDC Hobsonville Ground planted column complete with a **Single** 1.0m Straight outreach arm, Color: Traffic Black.
Connection: Connect to U/G SLN.

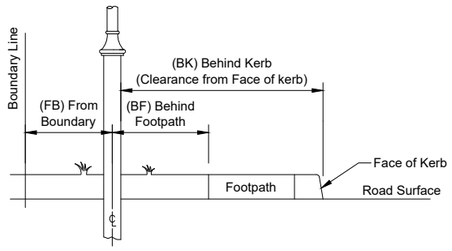
L2 Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 5)
Luminaire: Philips Roadgrace 26W LED luminaire (BRP711 LED30NW 26W PSDD I DWP) 4000K, Color: Black
Column: 7.5m SDC Hobsonville Ground planted column complete with a **Single** 1.0m Straight outreach arm, Color: Traffic Black.
SPECIAL COLUMN - NOTE THAT THIS COLUMN HAS A PLANTING DEPTH OF 2.0M
Connection: Connect to U/G SLN.

MAXIMUM DESIGN SPACING

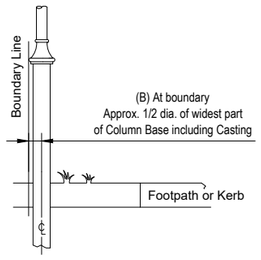
Street Name	Width	Arrangement Type*	Max Spacing
Road 1 & 3	17.0m	Staggered	59.8m
Road 1 & 3	17.0m	Staggered	59.8m
Road 2 & 4	17.0m	Single Sided	60.2m
Road 2 & 4	17.0m	Staggered	60.2m
Hamptons Road	20.0m	Single Sided	64.9m

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

TYPICAL COLUMN POSITION:



Column to be installed from Boundary Line, Behind Footpath or from Face of Kerb



Column to be installed at Boundary Line

ACCEPTED
by Peter Johnson on: 05 05 2026, 11:08 am
Orion

SYMBOLS:

E Existing column, outreach arm and luminaire to remain.

Lx New column, Single outreach arm and luminaire.

SYMBOLS LEGEND:

LX Lighting Schedule Reference
XXW Luminaire Wattage
P1 Column Identification
0.0m-XX Column offset
X° Luminaire Tilt from the horizontal (See Adjustment Table)

Offset Descriptions

BF	Behind Footpath
BK	Behind Kerb
C	Center
M	Center of Median

For Decorative Tubular and Octagonal Column

With Decorative Arms and 0° Spigot*

Value Shown on Plan	Adjustment on Luminaire
10°	10°
5°	5°
0°	0°
-5°	-5°

* As per CCC and SDC Standard Column Requirements

ISSUED FOR INFORMATION
Tuesday, 24 February 2026 10:22:59 am
NOT FOR CONSTRUCTION

KEY PLAN



NOTES:

1. Road illumination is designed to comply with AS/NZS 1158; subcategory PR4, 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.

1 : 1500

1 : 1000

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Rev	Description	Date	Des	Dn	Chk	Apd	Or Acp	Contractor
A	Issued to Client for Approval	23/02/26	RSD	RSD	·	·	·	·
B	Issued to Client for Approval	24/02/26	RSD	RSD	·	·	·	·

Designed	R. St-Denis / Conn	Feb 26
Drawn	R. St-Denis / Conn	Feb 26
Checked	J. Lim / Conn	-
Approved	B. Hayman for SDC	-
Connetics		

Scale 1:1000

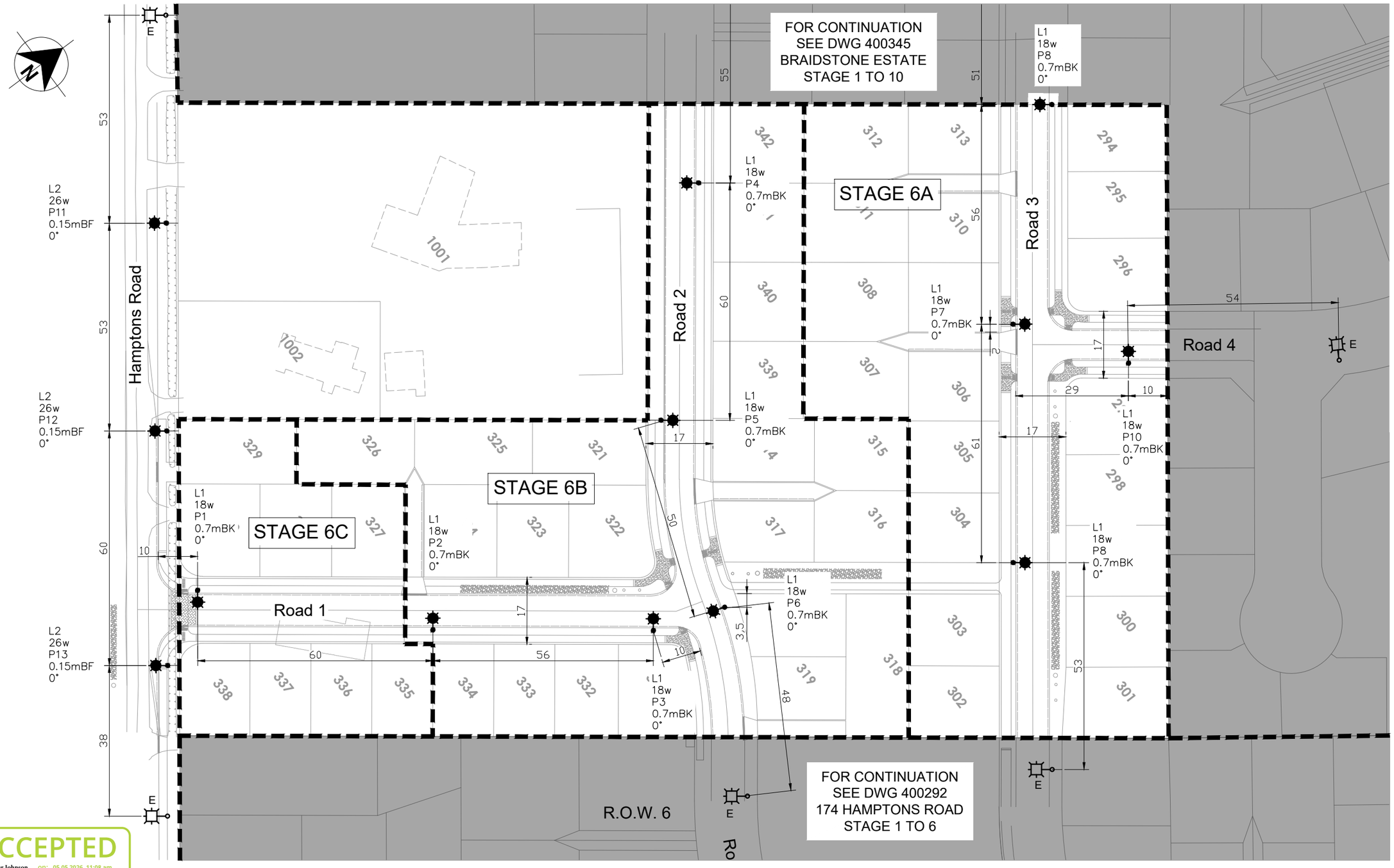
Revision B

STREETLIGHTING LAYOUT

The Hanptons Sub-Division
Stage 6A-B-C
Prebbleton

windsorurban LIGHTING FURNITURE
611 Halswell Junction Rd, Hornby, Christchurch, NZ
(03) 349-7853 fax (03) 349-6529 freeph (0800) 845-845

Size	Drawing Number	Sheet
A3	400453	2/2



ACCEPTED
by Peter Johnson on: 05 05 2026, 11:08 am
Orion

NOTES:

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

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Tuesday, 24 February 2026 10:23:19 am
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Rev	Description	Date	Des	Dn	Chk	Apd	Or Acp	Contractor
A	Issued to Client for Approval	23/02/26	RSD	RSD	·	·	·	·
B	Issued to Client for Approval	24/02/26	RSD	RSD	·	·	·	·

Designed	R. St-Denis / Conn	Feb 26
Drawn	R. St-Denis / Conn	Feb 26
Checked	J. Lim / Conn	-
Approved	B. Hayman for SDC	-
Connetics		

Scale: 1:1000
Revision: B

STREETLIGHTING LAYOUT

The Hanptons Sub-Division
Stage 6A-B-C
Prebbleton

windsorurban LIGHTING FURNITURE
611 Halswell Junction Rd, Hornby, Christchurch, NZ
(03) 349-7853 fax (03) 349-6529 freeph (0800) 845-845

Size	Drawing Number	Sheet
A3	400453	2/2

APPENDIX A: DESIGN STATEMENT OF ENVIRONMENTAL COMPLIANCE

Work Order:	ORN1027776
Work Title:	190 & 192 HAMPTONS ROAD - STAGE 6A

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:	Prepared By
Signed:	Needhu Paul
Company:	Connetics
Date:	28/04/2026

Underground Design

Designer:	**Needhu Paul**	**Date:**	**28/04/2026**
Design number:	**107924**	**Job name:**	**190 & 192 Hamptons Rd - Stage 6A**
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**	
	16mm Cu 1ph NS SL	**25m**	
1003402	16mm Cu 1ph NS	**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	**190m**	
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	**90m**	
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**	
	Distribution Box U - 6 way	**0**	
1007156	Distribution Box T - 6 way	**0**	
1012372	DB-U (replaces DB-S & DB-T)	**4**	
1012376	DB-V (replaces DB-T1)	**0**	
1001152	Multi Box DC	**0**	
1000128	Full kiosk	**0**	
1000129	Half kiosk	**0**	
1000130	Quarter kiosk	**0**	

Build Quotation for electrical reticulation at:
190 & 192 HAMPTONS ROAD - STAGE 6A
Bradley Wilson
Urban Estates Prebbleton

FROM ORION AUTHORISED ELECTRICAL CONTRACTOR: _____

Refer to Orion accepted Connetics design dwg 107924, Work instruction sheets, schematics and working drawings.

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, boundary boxes
   cable terminations and jointing (include all S/L cables)
   Test and LVA _____

3) **STREET LIGHTS**
   Refer to 400453 street light design dwg _____

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.

Engineering Design, Connetics Ltd

DOCUMENT TRANSMITTAL SHEET

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

ORN1030069

DRAWING ISSUE DETAILS

		DATE	5/05/26								
DWG No.	**SHEET**	**DRAWING DETAIL**	**ISSUE**								
107925	WIS-1	Work Instruction Sheet	A								
107925	HV-01	HV Schematics - Existing & Proposed	A								
107925	LV-01	LV Schematics - Existing	A								
107925	LV-01	LV Schematics - Proposed	A								
107925	SL-01	SL Schematics - Existing	A								
107925	SL-02	SL Schematics - Proposed	A								
107925	CP-01	Cable Plan	A								
107925	CP-02	Cable Plan	A								
		Pricing Sheet									
	HAR-1	HAZID	A								
		Design Statement of Environmental Compliance									
		Streetlighting Design	B								

Notes:

ACCEPTED
by Peter Johnson on: 12 08 2026, 01:05 pm
Orion

190 & 192 HAMPTONS ROAD

connetics

STAGE 6B & 6C

JOB No.	**SHEET**
107925	**1 OF 1**

APPENDIX A: DESIGN STATEMENT OF ENVIRONMENTAL COMPLIANCE

Work Order:	
Work Title:	190 & 192 HAMPTONS ROAD - STAGE 6B & 6C

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:	Prepared By
Signed:	Needhu Paul 
Company:	Connetics
Date:	5/05/2026

Build Quotation for electrical reticulation at:
190 & 192 HAMPTONS ROAD - STAGE 6B & 6C
Bradley Wilson
Urban Estates Prebbleton

FROM ORION AUTHORISED ELECTRICAL CONTRACTOR: _____

Refer to Orion accepted Connetics design dwg 107925, Work instruction sheets, schematics and working drawings.

Quotation required by: _____

Schedule of prices:

1) **11kV CABLES & JOINTING**
   Supply and install 11kV cable and terminations
   HV programs, Cable tests, certification and livening _____

2) **LV RETICULATION, CABLES & JOINTING**
   Supply and install cables, boundary boxes & distribution cabinet
   cable terminations and jointing (include all S/L cables)
   Test and LVA _____

3) **STREET LIGHTS**
   Refer to 400453 street light design dwg
   Install 7 Streetlights _____

4) **CUSTOMER SERVICE CABLES**
   Lay in customer service cables _____

TOTAL (EXCLUDES GST) _____

NOTES:
Allow for as built cable recording, to be sent directly to Orion.
All trenching done by developer

Underground Design

Designer:	**Needhu Paul**	**Date:**	**5/05/2026**
Design number:	**107925**	**Job name:**	**190 & 192 Hamptons Rd Stage 6B & 6C**
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 SL	**210m**	
1003402	16mm Cu 1ph NS LV	**160m**	
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	**595m**	
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	**100m**	
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**	
	Distribution Box U - 6 way	**0**	
1007156	Distribution Box T - 6 way	**0**	
1012372	DB-U (replaces DB-S & DB-T)	**13**	
1012376	DB-V (replaces DB-T1)	**0**	
1001152	Multi Box DC	**1**	
1000128	Full kiosk	**0**	
1000129	Half kiosk	**0**	
1000130	Quarter kiosk	**0**	

Design Hazard Assessment Register (HAZID)

Project:	190 & 192 Hamptons Road Stage 6B & 6C	Prepared By:	Needhu Paul
		Reviewed By:	M.Ophius
		HAZID Phase:	Detailed Design (Includes Modifications)
		Date:	5 May 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		Minor	Rare	Low	N/A		Minor	Rare	Low	N/A	No	N/A	
C - Construction & Commissioning													
C1	Timing of Project	Moderate	Possible	Medium	Contractor	Take appropriate measures to ensure drawings match with what on site	Serious	Likely	Very High	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

WORKS INSTRUCTION SHEET

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

WORK DESCRIPTION:

In order to provide electrical reticulation to 190 & 192 Hamptons Rd Stage 6B & 6C, refer to Connetics working drawings 107925, HV, LV & SL schematics

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

PREPARED BY:	Needhu Paul
DATE PREPARED:	12/08/2026
ORION CONTRACT MANAGER:	
ES NUMBER:	
WORK ORDER NUMBER:	ORN1030069

SUBSTATION DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
FOXCROFT DR NO.9 C13/1030						
EX 2K1T MSU						Ex full kiosk with 2K1T MSU & 200kVA transformer
	Links	**52**	**185Al 3C 11kV**	**New**	**Foxcroft DR Lot 339 cct 51**	Terminate and connect new cable
Ex 800A DIN TYPE LV PANEL						
630A	**355Amp fuses**	**4**	**185Al 3C+1 CuNS LV**	**New**	**DB Lot. 314**	Terminate and connect new cable, label circuit destination.
630A	**355Amp fuses**	**5**	**185Al 3C+1 CuNS LV**	**New**	**Hamptons Lot 328 C82/34 cct 3**	Terminate and connect new cable, label circuit destination.
Street lighting: Terminate 2 Streetlight 5th cores						

DISTRIBUTION CABINET DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
HAMPTONS LOT 328 C82/34						
						Install new distribution cabinet (M1). Equip 4 ways
630A	**Links**	**1**	**185Al 3C+1 CuNS LV**	**New**	**DB Lot. 329**	Terminate and connect new cable, label circuit destination.
630A	**Open**	**2**	**185Al 3C+1 CuNS LV**	**New**	**Hamptons Lot 55 Cct 1**	Terminate and connect new cable, label circuit destination.
630A	**Links**	**3**	**185Al 3C+1 CuNS LV**	**New**	**Foxcroft Dr No.9 cct 5**	Terminate and connect new cable, label circuit destination.
630A	**Links**	**4**	**185Al 3C+1 CuNS LV**	**New**	**DB Lot. 321**	Terminate and connect new cable, label circuit destination.
						Streetlighting: Terminate 4 SL 5th cores & 1 SL cable
HAMPTONS LOT 55 C82/33						
						Ex. distribution cabinet (M1)
630A	**Links**	**1**	**185Al 3C+1 CuNS LV**	**Ex**	**Hamptons Lot 328 C82/34 cct 1**	Relabel circuit destination.

Notes:

ACCEPTED
by Peter Johnson on: 12 08 2026, 01:05 pm
Orion

Accepted For Construction

Name:

Position:

Date:

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ISSUE A

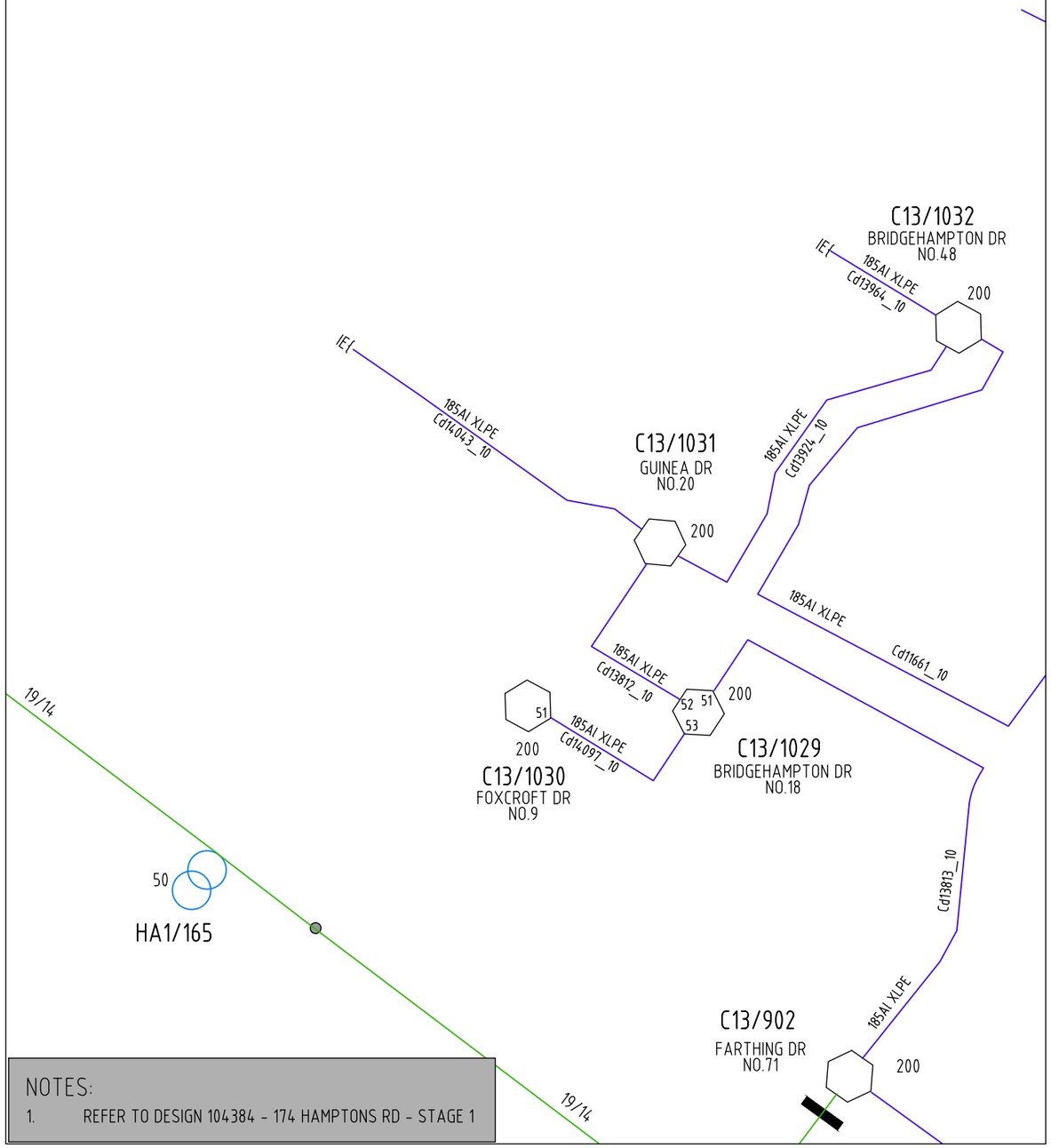
190 & 192 HAMPTONS ROAD

RESIDENTIAL SUBDIVISION
STAGE 6B & 6C

connetics
ALL WAYS CONNECTING

JOB No.	Sheet
107925	WIS-1

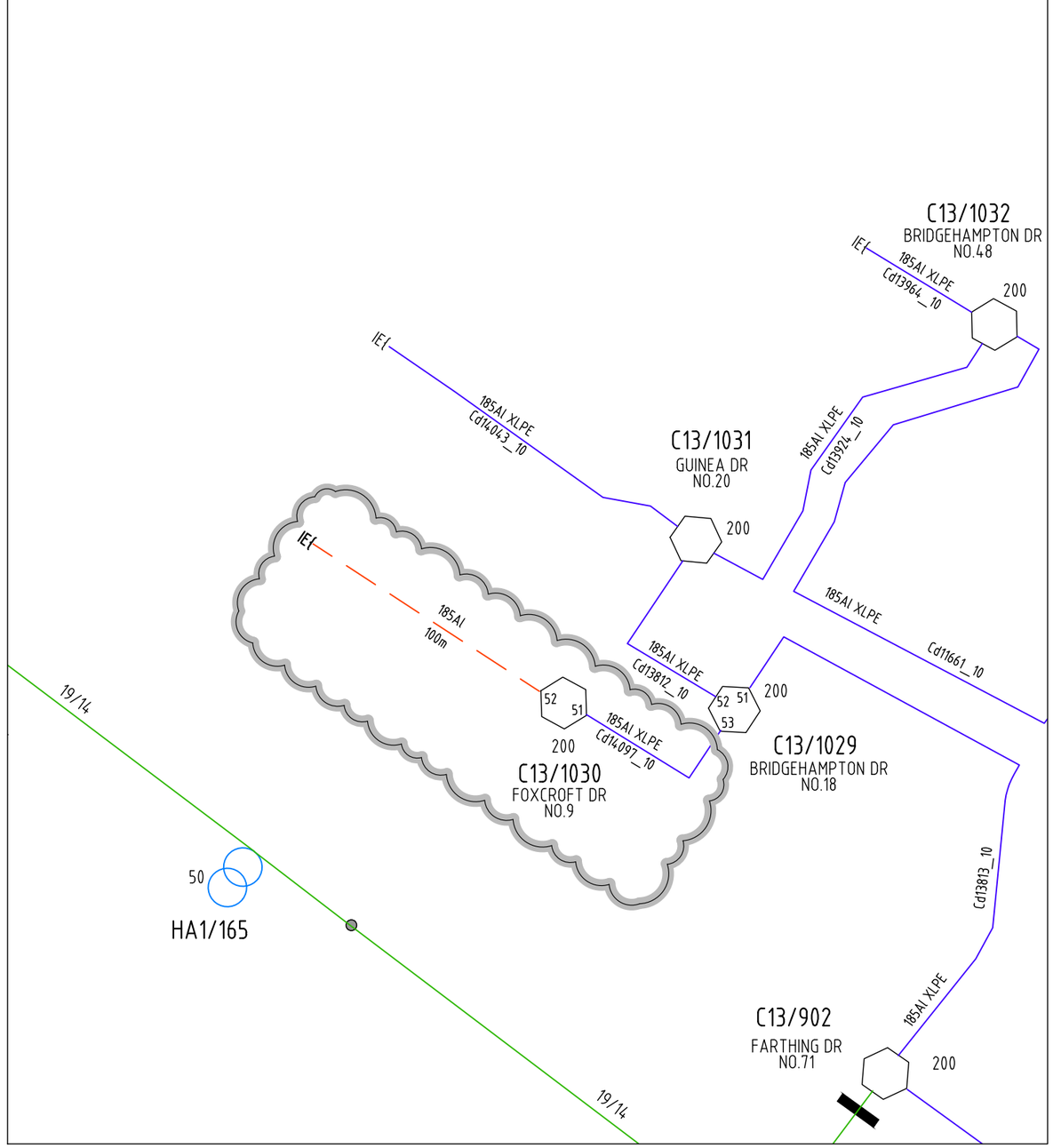
EXISTING



NOTES:

1. REFER TO DESIGN 104384 - 174 HAMPTONS RD - STAGE 1

PROPOSED



1:100 (A3) 0 1 2 3 4 5m
1:250 (A3) 0 2.5 5 7.5 10 12.5m
1:500 (A3) 0 5 10 15 20 25m
1:1000 (A3) 0 10 20 30 40 50m

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	05/05/26	N.P	N.P	M.O

ACCEPTED
by Peter Johnson on: 12 08 2026, 01:06 pm
Orion

TASK	NAME	SIGNATURE	DATED
DESIGNED	N.PAUL		03/03/26
DRAWN	N.PAUL		03/03/26
CHECKED	M.OPHIUS		28/04/26
APPROVED			

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A

190 & 192 HAMPTONS ROAD - STAGE 6B & 6C

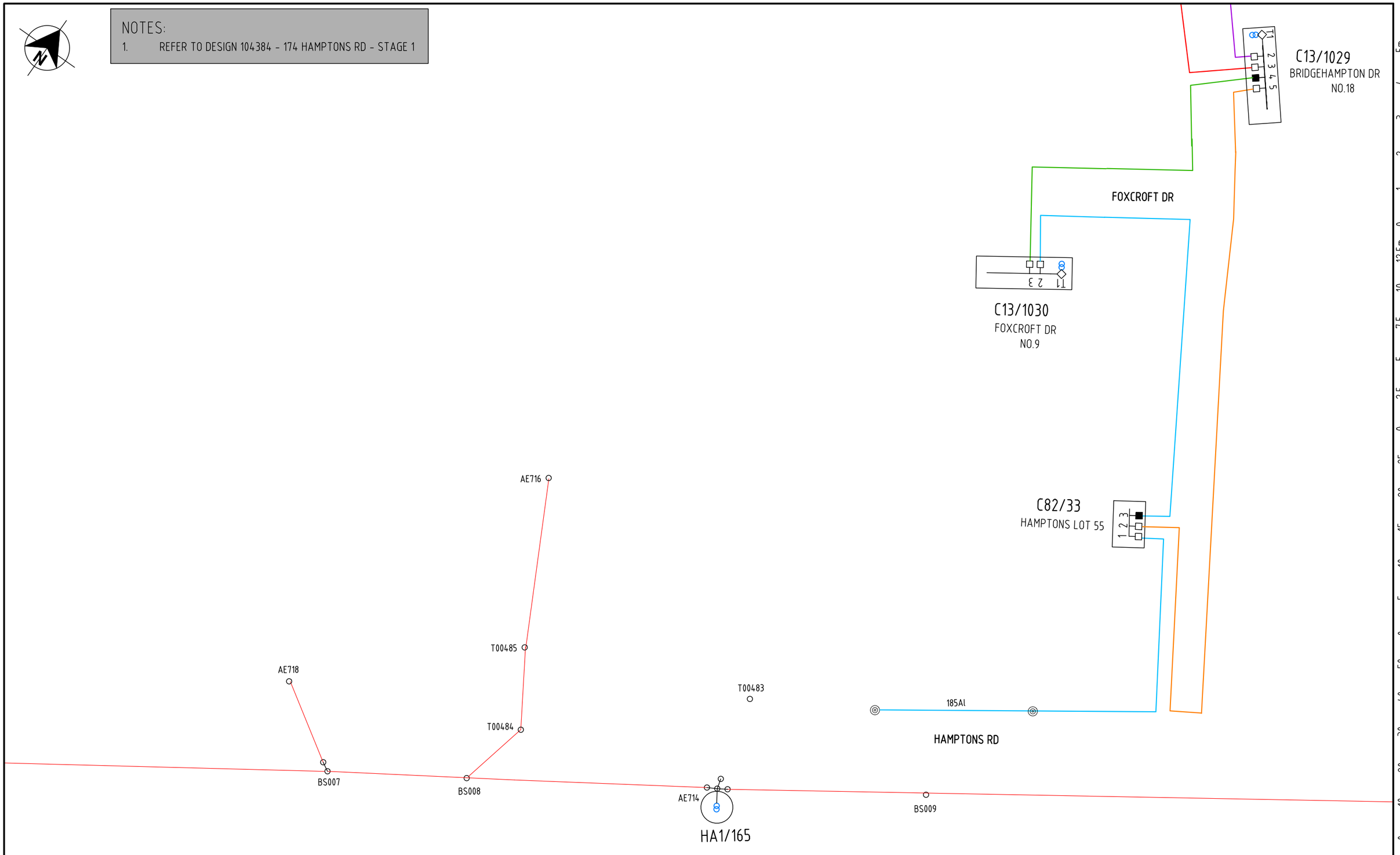
RESIDENTIAL SUBDIVISION
HV SCHEMATICS - EXISTING & PROPOSED

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS(A3)	107925	HV-1

NOTES:

1. REFER TO DESIGN 104384 - 174 HAMPTONS RD - STAGE 1



ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
A	ORIGINAL ISSUE	05/05/26	N.P	N.P	M.O	DESIGNED	N.PAUL		16/03/26
						DRAWN	N.PAUL		16/03/26
						CHECKED	M.OPHIUS		28/04/26
						APPROVED			
						© CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED			A

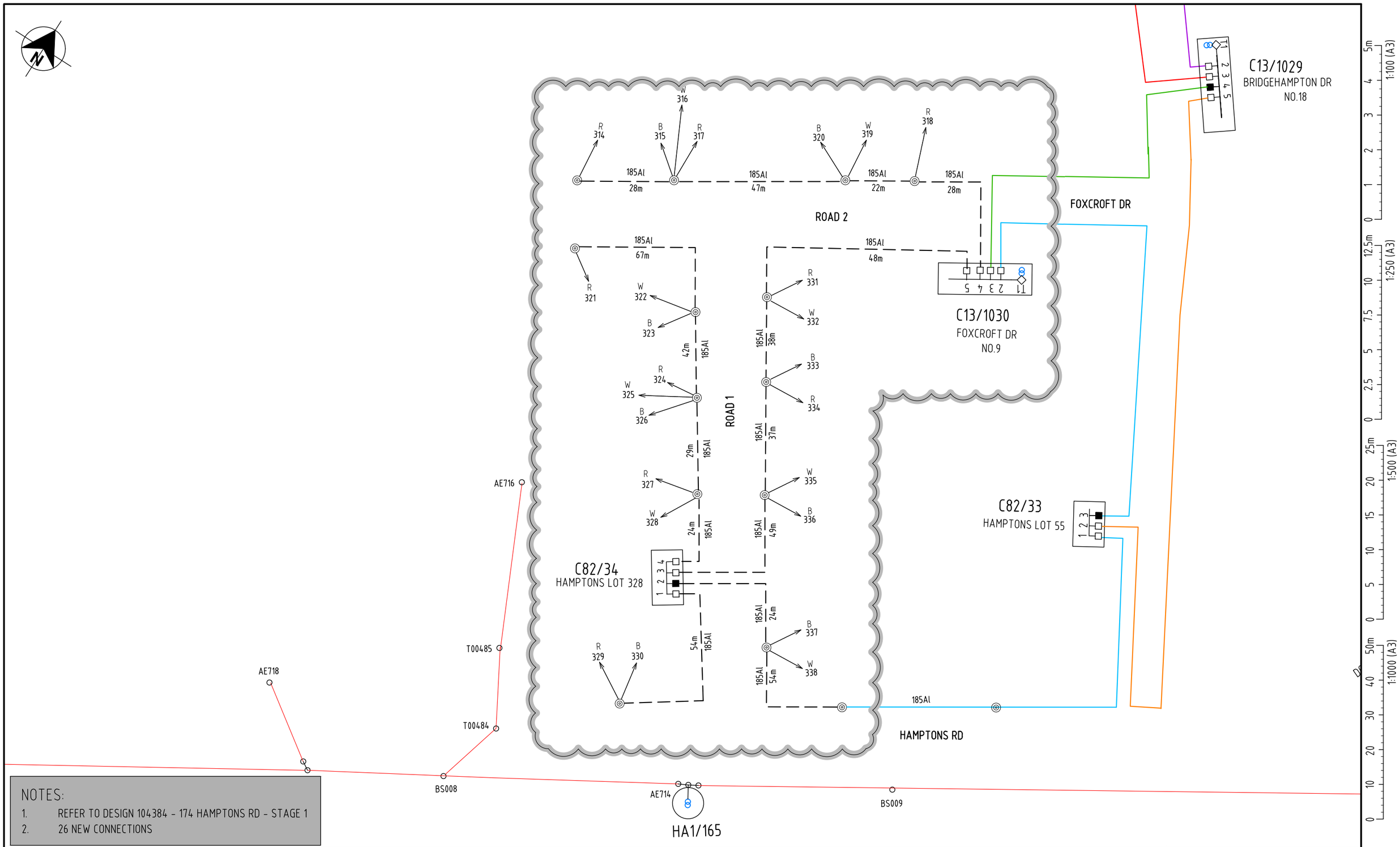
ACCEPTED
by Peter Johnson on: 12.08.2026, 01:06 pm
Orion

190 & 192 HAMPTONS ROAD - STAGE 6B & C

RESIDENTIAL SUBDIVISION
LV SCHEMATICS - EXISTING

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS(A3)	107925	LV-01



NOTES:

1. REFER TO DESIGN 104384 - 174 HAMPTONS RD - STAGE 1
2. 26 NEW CONNECTIONS

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	05/05/26	N.P	N.P	M.O

TASK	NAME	SIGNATURE	DATED
DESIGNED	N.PAUL		16/03/26
DRAWN	N.PAUL		16/03/26
CHECKED	M.OPHIUS		28/04/26
APPROVED			

ACCEPTED
by Peter Johnson on: 12 08 2026, 01:06 pm
Orion

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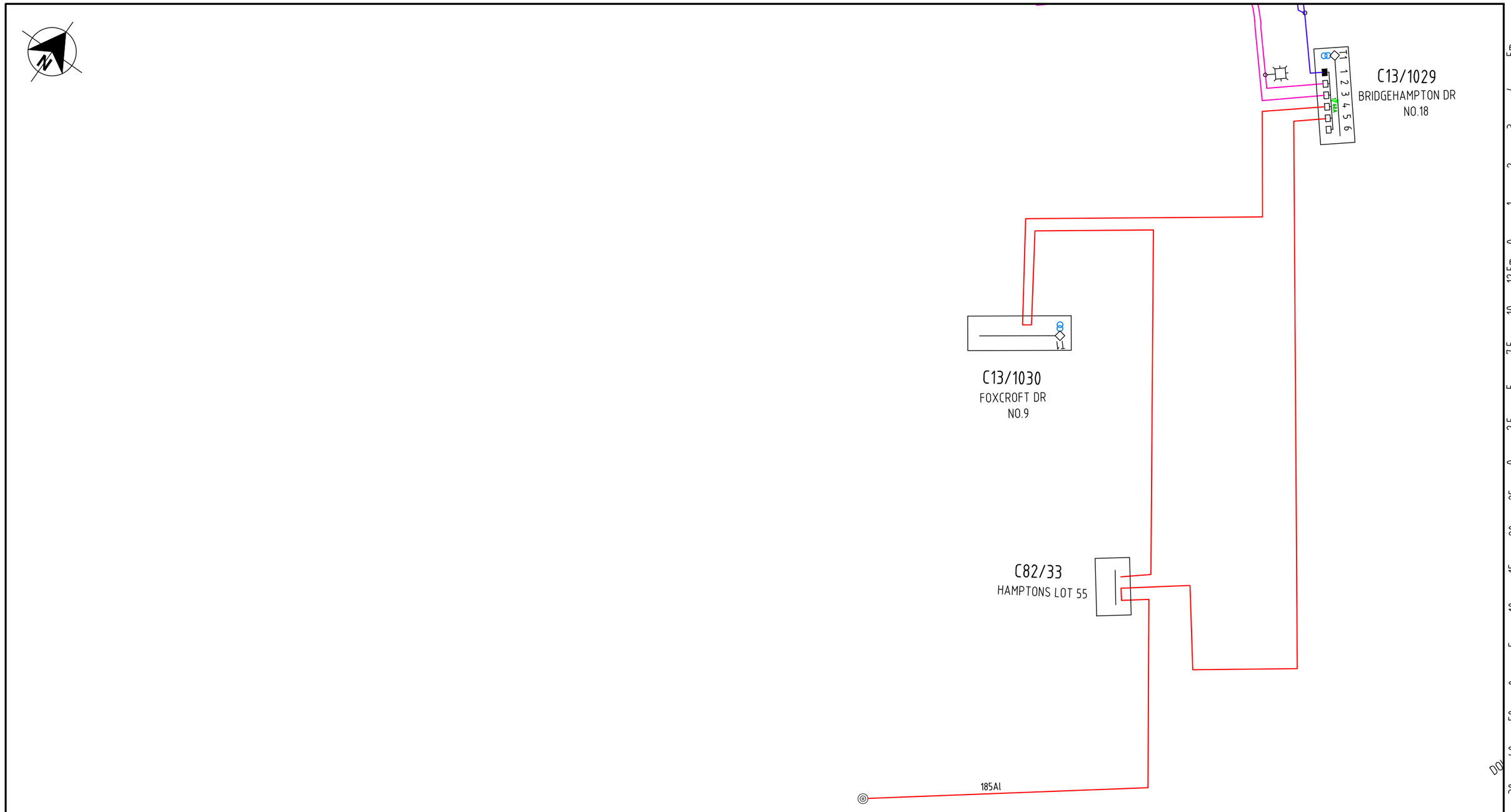
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190 & 192 HAMPTONS ROAD - STAGE 6B & 6C

RESIDENTIAL SUBDIVISION
LV SCHEMATICS - PROPOSED

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS(A3)	107925	LV-02



NOTES:

1. REFER TO DESIGN 104384 - 174 HAMPTONS RD - STAGE 1

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
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						DRAWN	N.PAUL		16/03/26
						CHECKED	M.OPHIUS		28/04/26
						APPROVED			
							CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A

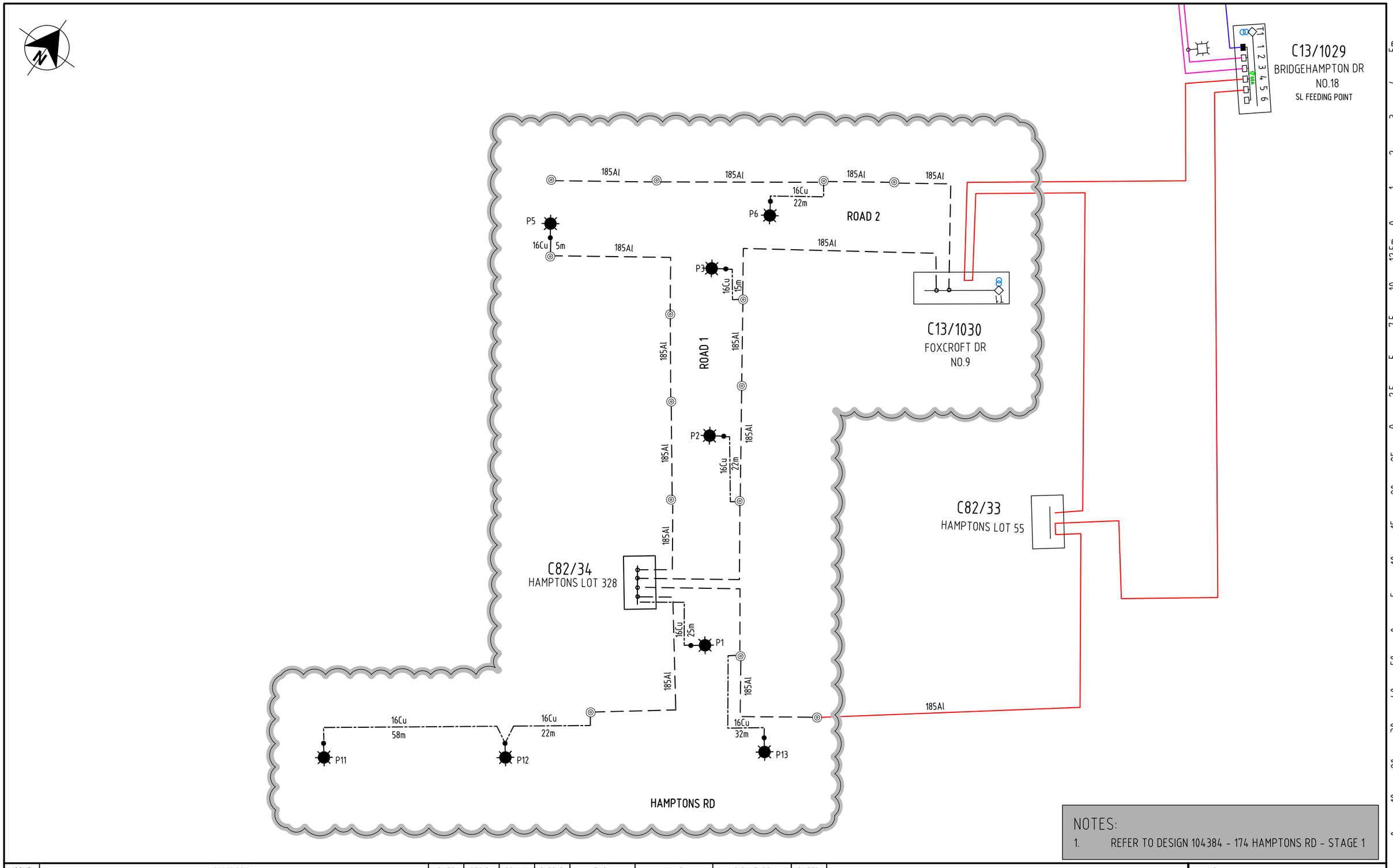
ACCEPTED
by Peter Johnson on: 12 08 2026, 01:06 pm
Orion

190 & 192 HAMPTONS ROAD - STAGE 6B & 6C

RESIDENTIAL SUBDIVISION
SL SCHEMATICS - EXISTING

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS(A3)	107925	SL-01



NOTES:

1. REFER TO DESIGN 104384 - 174 HAMPTONS RD - STAGE 1

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
A	ORIGINAL ISSUE	05/05/26	N.P	N.P	M.O	DESIGNED	N.PAUL		16/03/26
						DRAWN	N.PAUL		16/03/26
						CHECKED	M.OPHIUS		28/04/26
						APPROVED			
							CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A

ACCEPTED
by Peter Johnson on: 12 08 2026, 01:06 pm
Orion

190 & 192 HAMPTONS ROAD - STAGE 6B & 6C

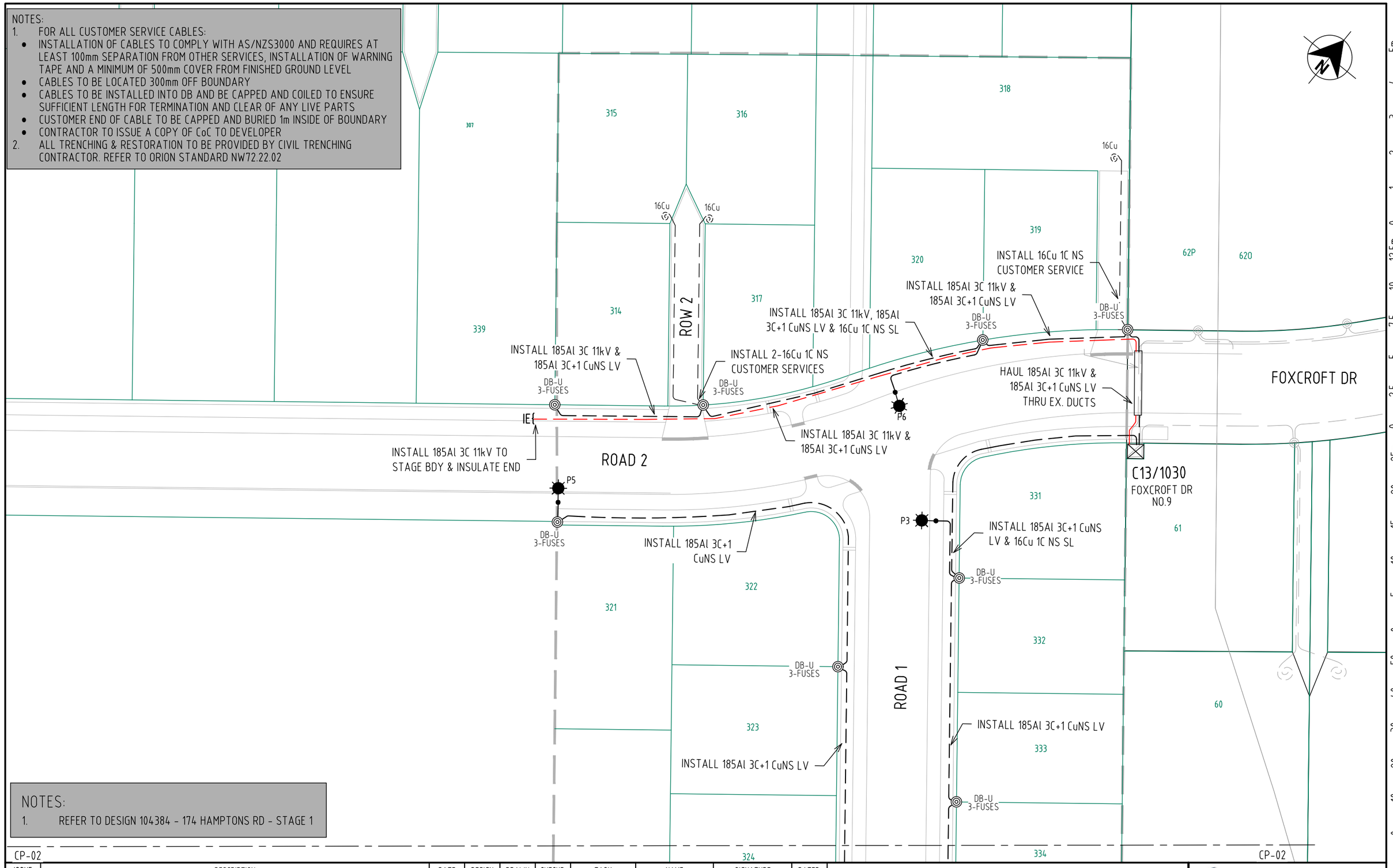
RESIDENTIAL SUBDIVISION
SL SCHEMATICS - PROPOSED

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS(A3)	107925	SL-02

NOTES:
1. 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 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 CoC TO DEVELOPER

2. ALL TRENCHING & RESTORATION TO BE PROVIDED BY CIVIL TRENCHING CONTRACTOR. REFER TO ORION STANDARD NW72.22.02



NOTES:
1. REFER TO DESIGN 104384 - 174 HAMPTONS RD - STAGE 1

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
A	ORIGINAL ISSUE	05/05/26	N.P	N.P	M.O	DESIGNED	N.PAUL		16/03/26
						DRAWN	N.PAUL		16/03/26
						CHECKED	M.OPHIUS		28/04/26
						APPROVED			
							© CONNETICS LIMITED. ALL RIGHTS RESERVED UNAUTHORISED USE PROHIBITED		A

ACCEPTED
by Peter Johnson on: 12 08 2026, 01:06 pm
Orion

190 & 192 HAMPTONS ROAD - STAGE 6B & 6C

RESIDENTIAL SUBDIVISION
CABLE PLAN

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
1:500(A3)	107925	CP-01

1:100 (A3) 0 1 2 3 4 5m
1:250 (A3) 0 2.5 5 7.5 10 12.5m
1:500 (A3) 0 5 10 15 20 25m
1:1000 (A3) 0 10 20 30 40 50m

NOTES:
1. 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 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 CoC TO DEVELOPER
2. ALL TRENCHING & RESTORATION TO BE PROVIDED BY CIVIL TRENCHING CONTRACTOR. REFER TO ORION STANDARD NW72.22.02

CP-01

CP-01

1001

1002

192A

57

184

324

325

326

327

328

329

330

334

335

336

337

338

INSTALL 2-16Cu 1C NS CUSTOMER SERVICES

16Cu

16Cu

DB-U 3-FUSES

AE716

INSTALL 185Al 3C+1 CuNS LV

INSTALL 185Al 3C+1 CuNS LV & 16Cu 1C NS SL

DB-U 3-FUSES

INSTALL 185Al 3C+1 CuNS LV

DB-U 3-FUSES

INSTALL 185Al 3C+1 CuNS LV

ROAD 1

P2

DEVELOPER TO INSTALL 2-150mm & 2-100mm PVC DUCTS. HAUL THRU 2-185Al 3C+1 CuNS LV

C82/34
HAMPTONS LOT 328
INSTALL DC-M1. EQUIP 4 WAYS

T00485

INSTALL 185Al 3C+1 CuNS LV & 16Cu 1C NS SL

DB-U 3-FUSES

REMOVE POLE T00483

T00483

CHORUS SW

DEVELOPER TO INSTALL 150mm PVC DUCTS UNDER WATER RACE/CULVERTS AS REQUIRED

INSTALL 185Al 3C+1 CuNS LV & 16Cu 1C NS SL

DEVELOPER TO INSTALL 150mm PVC DUCTS UNDER WATER RACE/CULVERTS AS REQUIRED

AE718

DB-EX

P1

DB-U 3-FUSES

DB-EX

WATER RACE

T00484

WATER RACE

WATER RACE

T00482

P11

P12

P13

INSTALL 16Cu 1C NS SL

HAMPTONS RD

DEVELOPER TO INSTALL 150mm PVC DUCTS UNDER WATER RACE/CULVERTS AS REQUIRED

INSTALL 185Al 3C+1 CuNS LV

DEVELOPER TO INSTALL 150mm PVC DUCTS UNDER WATER RACE/CULVERTS AS REQUIRED

INSTALL 185Al 3C+1 CuNS LV

LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV LV 11kV

BS007

BS008

AE714

HA1/165

BS009

1:100 (A3) 5m 4 3 2 1 0

1:250 (A3) 12.5m 10 7.5 5 2.5 0

1:500 (A3) 25m 20 15 10 5 0

1:1000 (A3) 50m 40 30 20 10 0

NOTES:
1. REFER TO DESIGN 104384 - 174 HAMPTONS RD - STAGE 1

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	05/05/26	N.P	N.P	M.O

TASK	NAME	SIGNATURE	DATED
DESIGNED	N.PAUL		03/03/26
DRAWN	N.PAUL		03/03/26
CHECKED	M.OPHIUS		28/04/26
APPROVED			

ACCEPTED
by Peter Johnson on: 12 08 2026, 01:06 pm
Orion

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A

190 & 192 HAMPTONS ROAD - STAGE 6B & 6C

RESIDENTIAL SUBDIVISION
CABLE PLAN

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
1:500(A3)	107924	CP-02

DOCUMENT TRANSMITTAL NOTICE

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ALL WAYS CONNECTING
DESIGN + ENGINEERING

Project The Hamptons Sub-Division - Stage 6A-B-C

Project No 4016915

Discipline Lighting Design

Page 1 of 1

	Date of Issue									
Year	26	26								
Month	2	2								
Day	23	24								

Doc. No.	Document Title	Rev	Issue								
400453	The Hamptons Sub-Division Stage 6A-B-C - Sheet 1	B	A	B							
400453	The Hamptons Sub-Division Stage 6A-B-C - Sheet 2	B	A	B							
	Pole Offset drawing										
400453	Autocad DWG Format	B	A	B							
	Producer Statement										
	Design Report										
	Street Lighting Specification										
	17.0M Road - Road 1 & 3 - Single Sided										
	17.0M Road - Road 1 & 3 - Staggered										
	17.0M Road - Road 2 & 4 - Single Sided										
	17.0M Road - Road 2 & 4 - Staggered										
	20.0m Road - Hamptons Road - Single Sided										
	Windsor Urban - Poles Drawing - Pole L1										
	Windsor Urban - Poles Drawing - Pole L2										
	Windsor Urban - Pole Producer Statement										
	Pole Structural Compliance Certificate - Windsor Urban										
224	Lighting Completion Form (Connetics)										
	Lighting Completion Form (Installer)										
	Orion Test Certificate										
	Certificate of Compliance										
	As-Built Drawings										
	Earth Test Certificate										

DELIVERY - Company Name	Attention	COPIES								
Davie Lovell-Smits	Ben Fox	#	#							
Windsor Urban Ltd.	Marcus Brandrick	#	#							
Selwyn District Council (Representative)	Brendan Hayman									
Connetics Ltd.	RAMM Data Entry									
Reason For Issue		P	P							

***P** - Preliminary / **A** - Approval / **T** - Tender / **C** - Construction / **X** - 224 / **RQ** -Requested*

Document Type Symbol

PDF	#
A4 Copy	*
A3 Copy	**
A1 Copy	***

Connetics Ltd

11 Islington Avenue
Islington
Christchurch 8042

P: (03) 353 7200
F: (03) 353 7201
E: www.connetics.co.nz

LIGHTING SCHEDULE

L1 Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 5)
Luminaire: Philips Roadgrace 18W LED luminaire (BRP711 LED23NW 18W DWP) 4000K, Color: Black
Column: 7.5m SDC Hobsonville Ground planted column complete with a **Single** 1.0m Straight outreach arm, Color: Traffic Black.
Connection: Connect to U/G SLN.

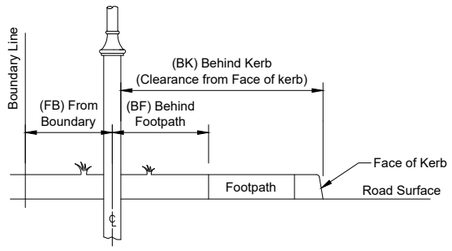
L2 Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 5)
Luminaire: Philips Roadgrace 26W LED luminaire (BRP711 LED30NW 26W PSDD I DWP) 4000K, Color: Black
Column: 7.5m SDC Hobsonville Ground planted column complete with a **Single** 1.0m Straight outreach arm, Color: Traffic Black.
SPECIAL COLUMN - NOTE THAT THIS COLUMN HAS A PLANTING DEPTH OF 2.0M
Connection: Connect to U/G SLN.

MAXIMUM DESIGN SPACING

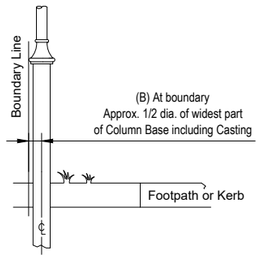
Street Name	Width	Arrangement Type*	Max Spacing
Road 1 & 3	17.0m	Staggered	59.8m
Road 1 & 3	17.0m	Staggered	59.8m
Road 2 & 4	17.0m	Single Sided	60.2m
Road 2 & 4	17.0m	Staggered	60.2m
Hamptons Road	20.0m	Single Sided	64.9m

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

TYPICAL COLUMN POSITION:



Column to be installed from Boundary Line, Behind Footpath or from Face of Kerb



Column to be installed at Boundary Line

ACCEPTED
by Peter Johnson on: 12 08 2026, 01:06 pm
Orion

SYMBOLS:

E Existing column, outreach arm and luminaire to remain.

Lx New column, Single outreach arm and luminaire.

SYMBOLS LEGEND:

LX Lighting Schedule Reference
XXW Luminaire Wattage
P1 Column Identification
0.0m-XX Column offset
X° Luminaire Tilt from the horizontal (See Adjustment Table)

Offset Descriptions

BF	Behind Footpath
BK	Behind Kerb
C	Center
M	Center of Median

For Decorative Tubular and Octagonal Column

With Decorative Arms and 0° Spigot*

Value Shown on Plan	Adjustment on Luminaire
10°	10°
5°	5°
0°	0°
-5°	-5°

* As per CCC and SDC Standard Column Requirements

ISSUED FOR INFORMATION
Tuesday, 24 February 2026 10:22:59 am
NOT FOR CONSTRUCTION

KEY PLAN



NOTES:

1. Road illumination is designed to comply with AS/NZS 1158; subcategory PR4, 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.

1 : 1500

1 : 1000

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Rev	Description	Date	Des	Dn	Chk	Apd	Or Acp	Contractor
A	Issued to Client for Approval	23/02/26	RSD	RSD	·	·	·	·
B	Issued to Client for Approval	24/02/26	RSD	RSD	·	·	·	·

Designed	R. St-Denis / Conn	Feb 26
Drawn	R. St-Denis / Conn	Feb 26
Checked	J. Lim / Conn	-
Approved	B. Hayman for SDC	-
Connetics		

Scale 1:1000

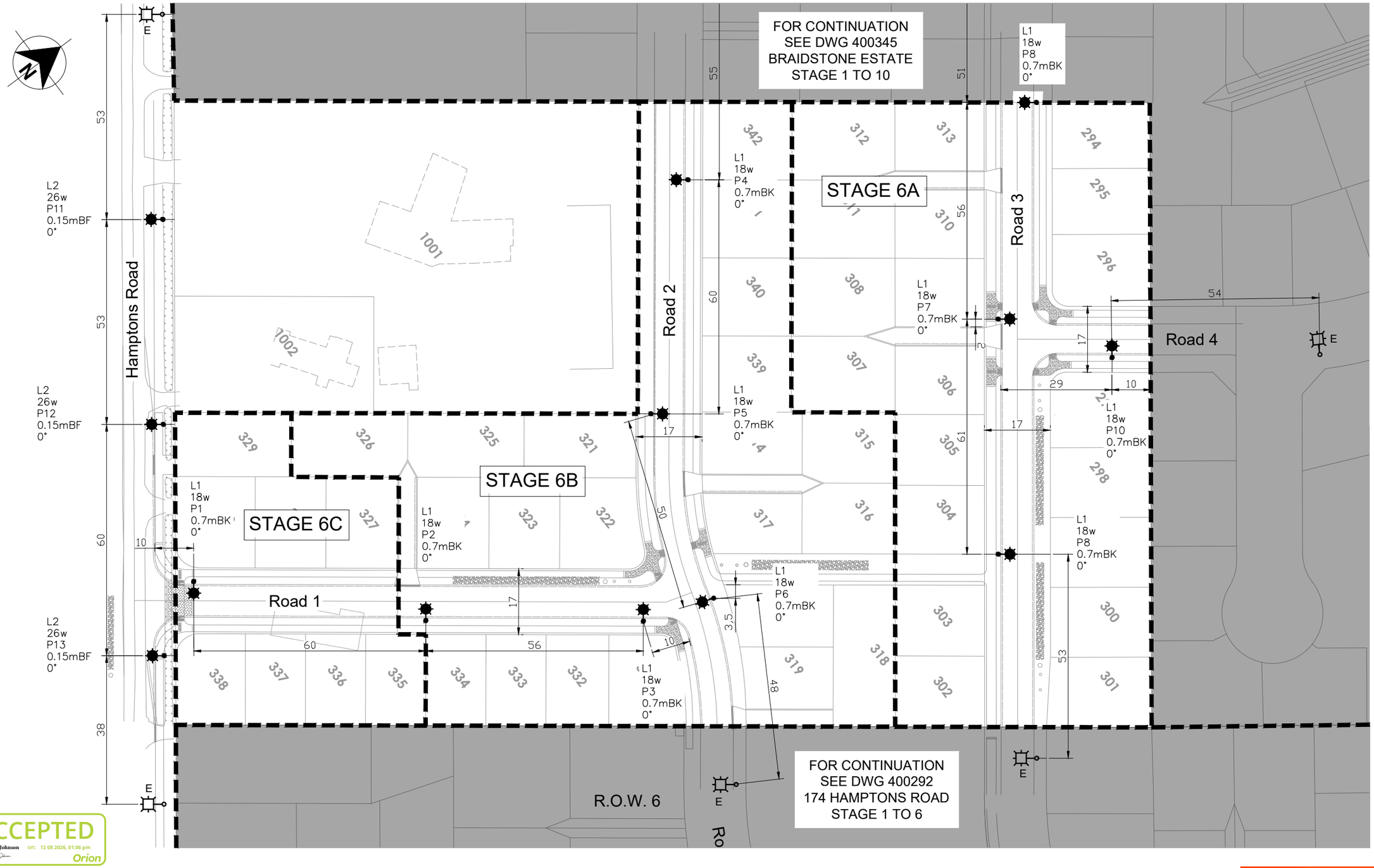
Revision B

STREETLIGHTING LAYOUT

The Hanptons Sub-Division
Stage 6A-B-C
Prebbleton

windsorurban LIGHTING FURNITURE
611 Halswell Junction Rd, Hornby, Christchurch, NZ
(03) 349-7853 fax (03) 349-6529 freeph (0800) 845-845

Size	Drawing Number	Sheet
A3	400453	2/2



ACCEPTED
by Peter Johnson on: 12 08 2026, 01:06 pm
Orion

NOTES:

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

ISSUED FOR INFORMATION
Tuesday, 24 February 2026 10:23:19 am
NOT FOR CONSTRUCTION

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Rev	Description	Date	Des	Dn	Chk	Apd	Or Acp	Contractor
A	Issued to Client for Approval	23/02/26	RSD	RSD	·	·	·	·
B	Issued to Client for Approval	24/02/26	RSD	RSD	·	·	·	·

Designed	R. St-Denis / Conn	Feb 26
Drawn	R. St-Denis / Conn	Feb 26
Checked	J. Lim / Conn	-
Approved	B. Hayman for SDC	-
Connetics		

Scale: 1:1000
Revision: B

STREETLIGHTING LAYOUT

The Hanptons Sub-Division
Stage 6A-B-C
Prebbleton

windsorurban LIGHTING FURNITURE
611 Halswell Junction Rd, Hornby, Christchurch, NZ
(03) 349-7853 fax (03) 349-6529 freeph (0800) 845-845

Size	Drawing Number	Sheet
A3	400453	2/2

1 : 1500
1 : 1000

Engineering Design, Connetics Ltd

DOCUMENT TRANSMITTAL SHEET

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

ORN1030407

DRAWING ISSUE DETAILS

		DATE	18/05/26								
DWG No.	**SHEET**	**DRAWING DETAIL**	**ISSUE**								
108344	WIS-1	Work Instruction Sheet	A								
108344	WIS-2	Work Instruction Sheet	A								
108344	HV-01	HV Schematics - Existing & Proposed	A								
108344	LV-01	LV Schematics - Existing	A								
108344	LV-02	LV Schematics - Proposed	A								
108344	SL-01	SL Schematics - Existing	A								
108344	SL-02	SL Schematics - Proposed	A								
108344	CP-01	Cable Plan	A								
108344	CP-02	Cable Plan	A								
		Pricing Sheet									
	HAR-1	HAZID	A								
		Design Statement of Environmental Compliance									
		Streetlight Design	B								

Notes:

ACCEPTED
by Peter Johnson on: 16 07 2024, 01:26 pm
Orion

190 & 192 HAMPTONS ROAD

connetics

RESIDENTIAL SUBDIVISION
STAGE 6D & 6E

JOB No.	SHEET
108344	1 OF 1

APPENDIX A: DESIGN STATEMENT OF ENVIRONMENTAL COMPLIANCE

Work Order:	ORN1030407
Work Title:	190 & 192 Hamptons Road - Stage 6D & 6E

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:	Prepared By
Signed:	
Company:	Connetics
Date:	18/05/2026

Build Quotation for electrical reticulation at:
190 & 192 Hamptons Road - Stage 6D & 6E
Bradley Wilson
Urban Estates Prebbleton

FROM ORION AUTHORISED ELECTRICAL CONTRACTOR: _____

Refer to Orion accepted Connetics design dwg 108344, Work instruction sheets, schematics and working drawings.

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 400453 street light design dwg
   Install 4 streetlights _____

4) **SUBSTATIONS**
   Install 2 full kiosks and Earthing. _____

5) **CUSTOMER SERVICE CABLES**
   Lay in customer service cables _____

TOTAL (EXCLUDES GST) _____

NOTES:
Allow for as built cable recording, to be sent directly to Orion.
All trenching done by the Developer

Designer:	**Needhu Paul**	**Date:**	**18/05/2026**
Design number:	**108344**	**Job name:**	**190 & 192 Hamptons Rd - Stage 6D & 6E**
Approx. start date:		**Developer:**	
Orions Contract		**Design/Build:**	**Design**
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	**108**	
1003403	16mm Cu 2ph NS LV	**0**	
1003404	16mm Cu 3ph NS LV	**0**	
1003405	25mm Cu 1ph NS LV	**130**	
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	**515**	
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	**250**	
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)	**7**	
1012376	DB-V (replaces DB-T1)	**0**	
1001152	Multi Box DC	**0**	
1000128	Full kiosk	**2**	
1000129	Half kiosk	**0**	
1000130	Quarter kiosk	**0**	

Design Hazard Assessment Register (HAZID)

Project:	190 & 192 Hamptons Rd - Stage 6D & 6E ORN1030407	Prepared By:	Needhu
		Reviewed By:	M.Ophius
		HAZID Phase:	Detailed Design (Includes Modifications)
		Date:	18 May 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	
C - Construction & Commissioning													
C1	Timing of Project	Moderate	Possible	Medium	Contractor	Take appropreite measures to ensure drawing matches with what is on site	Serious	Likely	Very High	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

WORKS INSTRUCTION SHEET

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

WORK DESCRIPTION:

In order to provide electrical reticulation to 190 & 192 Hamptons Rd Stage 6D & 6E, refer to Connetics working drawings 108344, HV, LV & SL schematics

1. Install two full kiosks fitted with 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:	Needhu Paul
DATE PREPARED:	9/06/2026
ORION CONTRACT MANAGER:	
ES NUMBER:	
WORK ORDER NUMBER:	ORN1030407

SUBSTATION DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
OFF GUINEA DR LOT 296 - C82/31						
NEW 3K1T MSU						Install new full kiosk in Orion title site. Fit with a 3K1T MSU & 200kVA transformer. Earthing to Orion Technical Spec. NW70.59.01
	Links	**51**	**185Al 3C 11kV**	**New**	**Insulated End - Stage Bdy Lot 294**	Terminate and connect new cable, trifurcated to singles. Label circuit destination
	Links	**52**	**185Al 3C 11kV**	**New**	**Guinea Dr No. 20 Cct 51**	Terminate and connect new cable, trifurcated to singles. Label circuit destination
	Links	**53**	**185Al 3C 11kV**	**New**	**Insulated End - Stage Bdy Lot 296**	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 & commission 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.
-	**Not equipped**	**-**	**-**	**-**	**-**	Fit cover kit.
630A	**355Amp fuses**	**2**	**185Al 3C+1 CuNS LV**	**New**	**Insulated End - Stage Bdy Lot 294**	Terminate and connect new cable, label circuit destination.
630A	**355Amp fuses**	**3**	**185Al 3C+1 CuNS LV**	**New**	**Insulated End - Stage Bdy Lot 313**	Terminate and connect new cable, label circuit destination.
630A	**630Amp Links**	**Incomer**	**4-185Cu 1C LV**	**New**	**Local Transformer**	Fit set of leads between transformer LV bushings and LV panel.
630A	**Open**	**4**	**185Al 3C+1 CuNS LV**	**New**	**Guinea Dr No. 20 Cct 3**	Terminate and connect new cable, label circuit destination.
630A	**355Amp fuses**	**5**	**185Al 3C+1 CuNS LV**	**New**	**Insulated End - Stage Bdy Lot 296**	Terminate and connect new cable, label circuit destination.
-	**Not equipped**	**-**	**-**	**-**	**-**	Fit cover kit.
-	**Not equipped**	**-**	**-**	**-**	**-**	Fit cover kit.
	Generator Way	**Gen.**				Fit Generator spare way cover kit.
Street lighting: Terminate 4 SL 5th cores						
GUINEA DR NO. 20 - C13/1031						
EX 3K1T MSU						Existing full kiosk with 3K1T MSU & 200kVA transformer
	Links	**51**	**185Al 3C 11kV**	**Ex**	**Off Guinea Dr Lot 296 Cct 52**	Relabel circuit destination
EX 800A DIN TYPE LV PANEL						
630A	**Ex**	**2**	**185Al 3C+1 CuNS LV**	**Ex**	**Insulated End - Stage Bdy Lot 297**	Relabel circuit destination
630A	**Ex**	**3**	**185Al 3C+1 CuNS LV**	**Ex**	**Off Guinea Dr Lot 296 Cct 4**	Relabel circuit destination

Notes:

Refer to Connetics Design 107924 - 190 & 192 Hamptons Rd - Stage 6A & 107925 - 190 & 192 Hamptons Rd - Stage 6B & 6C for previous stages

ACCEPTED by Peter Johnson on: 16 07 2024, 01:26 pm Orion

Accepted For Construction

Name:

Position:

Date:

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ISSUE
A

190 & 192 HAMPTONS ROAD

RESIDENTIAL SUBDIVISION STAGE 6D & 6E

connetics ALL WAYS CONNECTING

JOB No.	Sheet
108344	WIS-1

WORKS INSTRUCTION SHEET

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

SUBSTATION DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
OFF FOXCROFT DR LOT 339 - C82/32						
NEW 2K1T MSU						Install new full kiosk in Orion easement site. Fit with a 2K1T MSU & 200kVA transformer. Earthing to Orion Technical Spec. NW70.59.01
	Links	**51**	**185Al 3C 11kV**	**New**	**Foxcroft Dr No. 9 Cct 52**	Terminate and connect new cable, trifurcated to singles. Label circuit destination
	Links	**52**	**185Al 3C 11kV**	**New**	**Insulated End - Stage Bdy Lot 342**	Terminate and connect new cable, trifurcated to singles. Label circuit destination
16A	**Fuses**	**53**	**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 & commission 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.
-	**Not equipped**	**-**	**-**	**-**	**-**	Fit cover kit.
630A	**355Amp fuses**	**2**	**185Al 3C+1 CuNS LV**	**New**	**DB Lot. 342**	Terminate and connect new cable, label circuit destination.
630A	**355Amp fuses**	**3**	**185Al 3C+1 CuNS LV**	**New**	**Insulated End - Stage Bdy Road 2**	Terminate and connect new cable, label circuit destination.
630A	**630Amp Links**	**Incomer**	**4-185Cu 1C 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**	**Hamptons Lot 328 C82/34 Cct 4**	Terminate and connect new cable, label circuit destination.
630A	**Open**	**5**	**185Al 3C+1 CuNS LV**	**New**	**Foxcroft Dr No. 9 Cct 4**	Terminate and connect new cable, label circuit destination.
-	**Not equipped**	**-**	**-**	**-**	**-**	Fit cover kit.
-	**Not equipped**	**-**	**-**	**-**	**-**	Fit cover kit.
	Generator Way	**Gen.**				Fit Generator spare way cover kit.
Street lighting: Terminate 4 SL 5th cores						
FOXCROFT DR NO. 9 - C13/1030						
EX 2K1T MSU						Existing full kiosk with 2K1T MSU & 200kVA transformer
	Links	**52**	**185Al 3C 11kV**	**Ex**	**Off Foxcroft Dr Lot 339 Cct 51**	Relabel circuit destination
EX 800A DIN TYPE LV PANEL						
630A	**Ex**	**4**	**185Al 3C+1 CuNS LV**	**Ex**	**Off Foxcroft Dr Lot 339 Cct 5**	Relabel circuit destination

DISTRIBUTION CABINET DETAILS

Size	Switchgear	CCT	Cable			Comments
			Cable Size	New/Ex	Circuit Destination	
HAMPTONS Lot 328 C82/34						
						Ex distribution cabinet (M1)
630A	**Links**	**4**	**185Al 3C+1 CuNS LV**	**Ex**	**Off Foxcroft Dr Lot 339 Cct 4**	Relabel circuit destination.

Notes:
Refer to Connetics Design 107924 - 190 & 192 Hamptons Rd - Stage 6A & 107925 - 190 & 192 Hamptons Rd - Stage 6B & 6C for previous stages

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by Peter Johnson on: 16 07 2024, 01:26 pm
Orion

Accepted For Construction
Name:
Position:
Date:

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ISSUE A

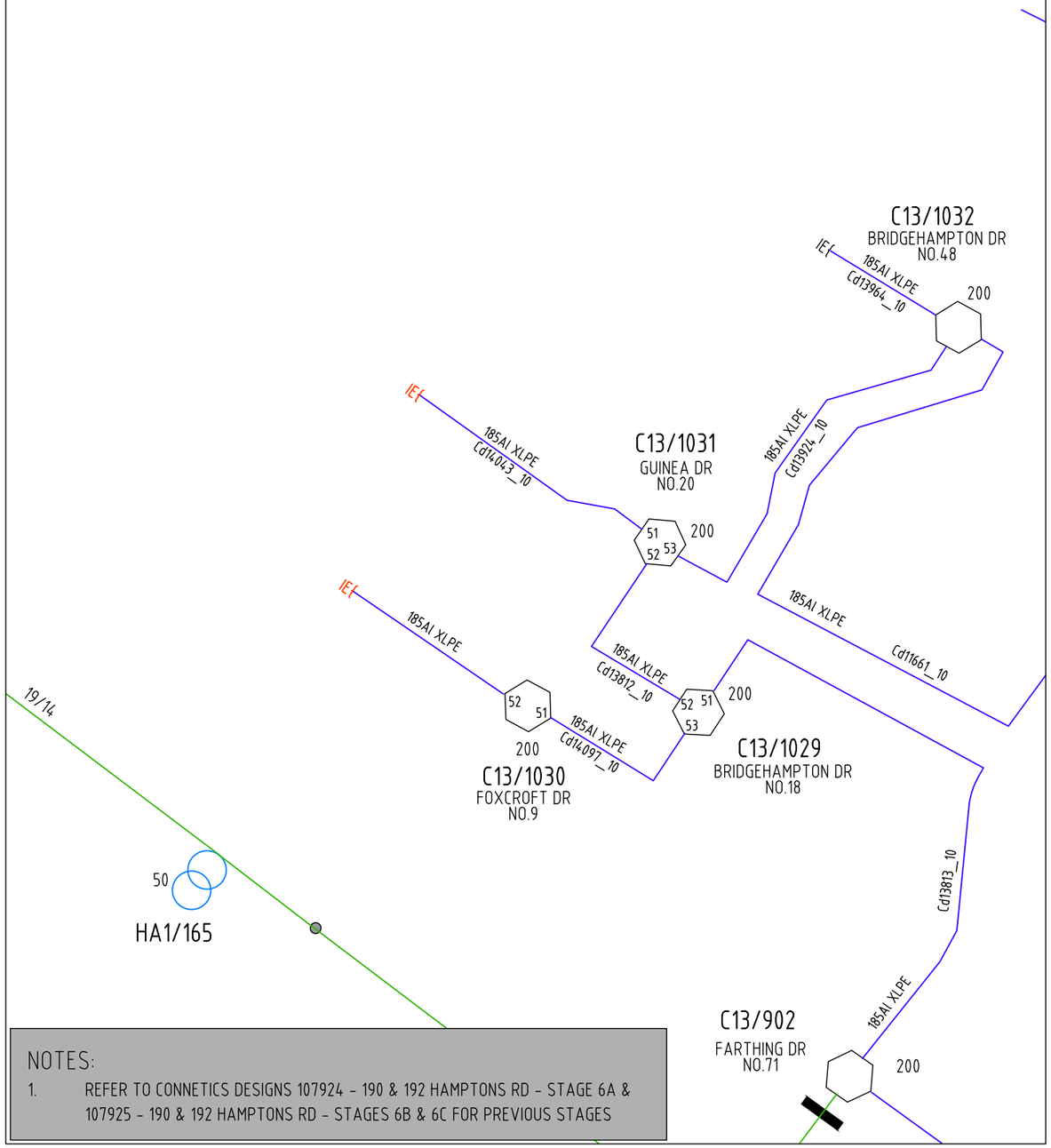
190 & 192 HAMPTONS ROAD

RESIDENTIAL SUBDIVISION STAGE 6D & 6E

connetics
ALL WAYS CONNECTING

JOB No.	Sheet
108344	WIS-2

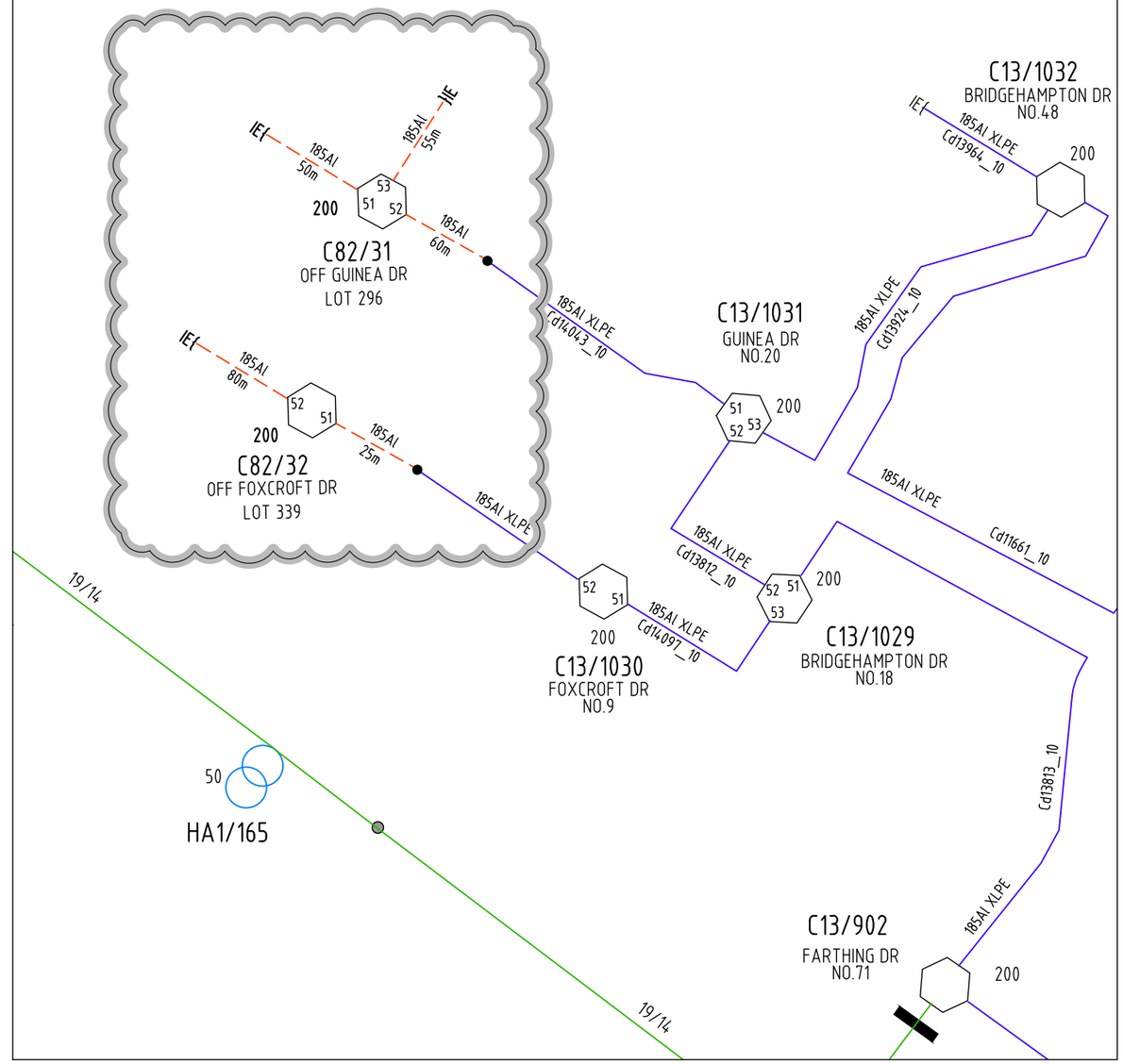
EXISTING



NOTES:

1. REFER TO CONNETICS DESIGNS 107924 - 190 & 192 HAMPTONS RD - STAGE 6A & 107925 - 190 & 192 HAMPTONS RD - STAGES 6B & 6C FOR PREVIOUS STAGES

PROPOSED



1:100 (A3) 0 1 2 3 4 5m
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1:500 (A3) 0 5 10 15 20 25m
1:1000 (A3) 0 10 20 30 40 50m

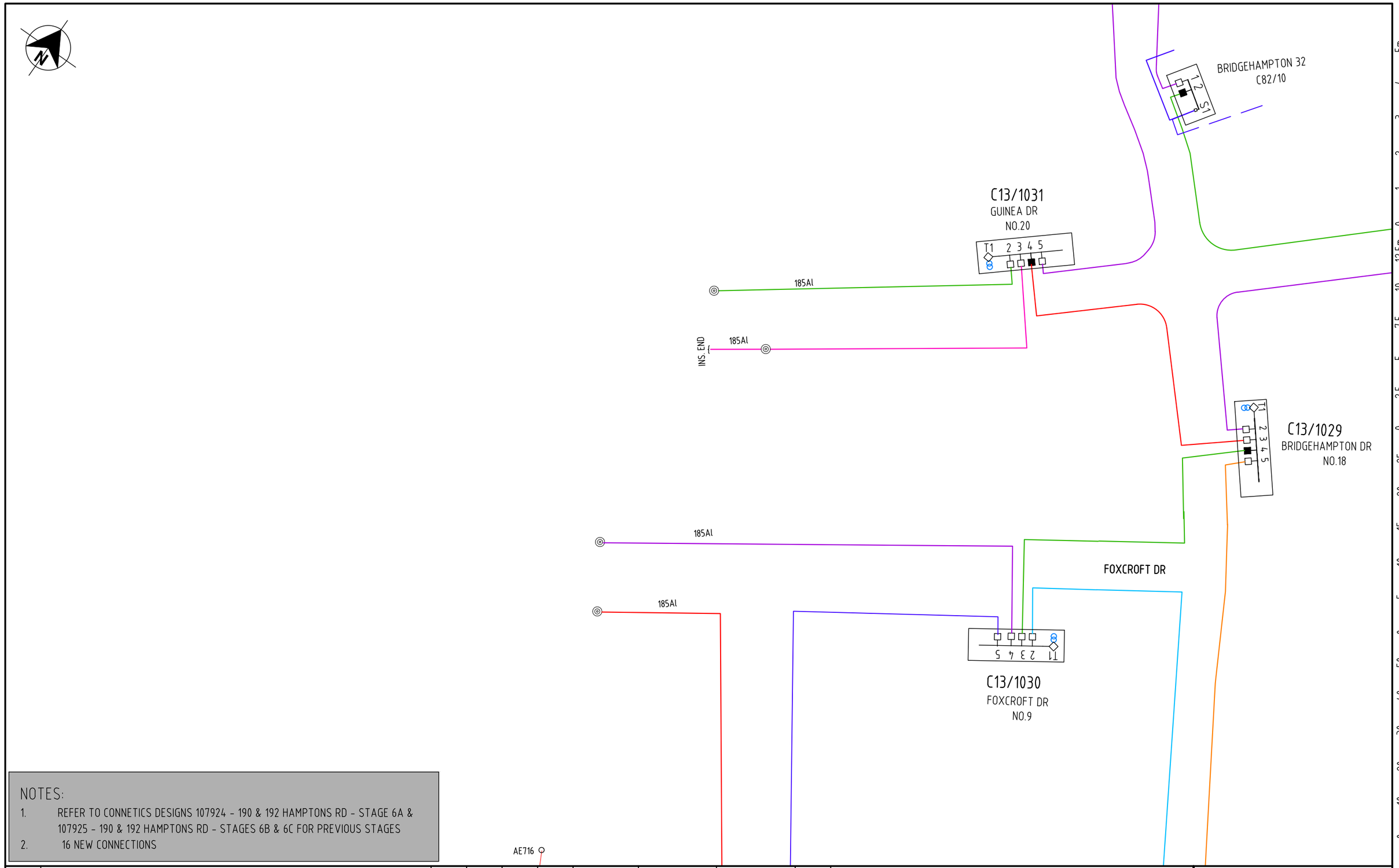
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A	ORIGINAL ISSUE	09/06/26	N.P	N.P	M.O	DESIGNED	N.PAUL		11/05/26
	ACCEPTED by Peter Johnson on: 16 07 2024, 01:26 pm Orion					DRAWN	N.PAUL		11/05/26
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190 & 192 HAMPTONS ROAD

RESIDENTIAL SUBDIVISION
STAGE 6D & 6E
HV SCHEMATICS -EXISTING & PROPOSED

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	108344	HV-01



NOTES:

1. REFER TO CONNETICS DESIGNS 107924 - 190 & 192 HAMPTONS RD - STAGE 6A & 107925 - 190 & 192 HAMPTONS RD - STAGES 6B & 6C FOR PREVIOUS STAGES
2. 16 NEW CONNECTIONS

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
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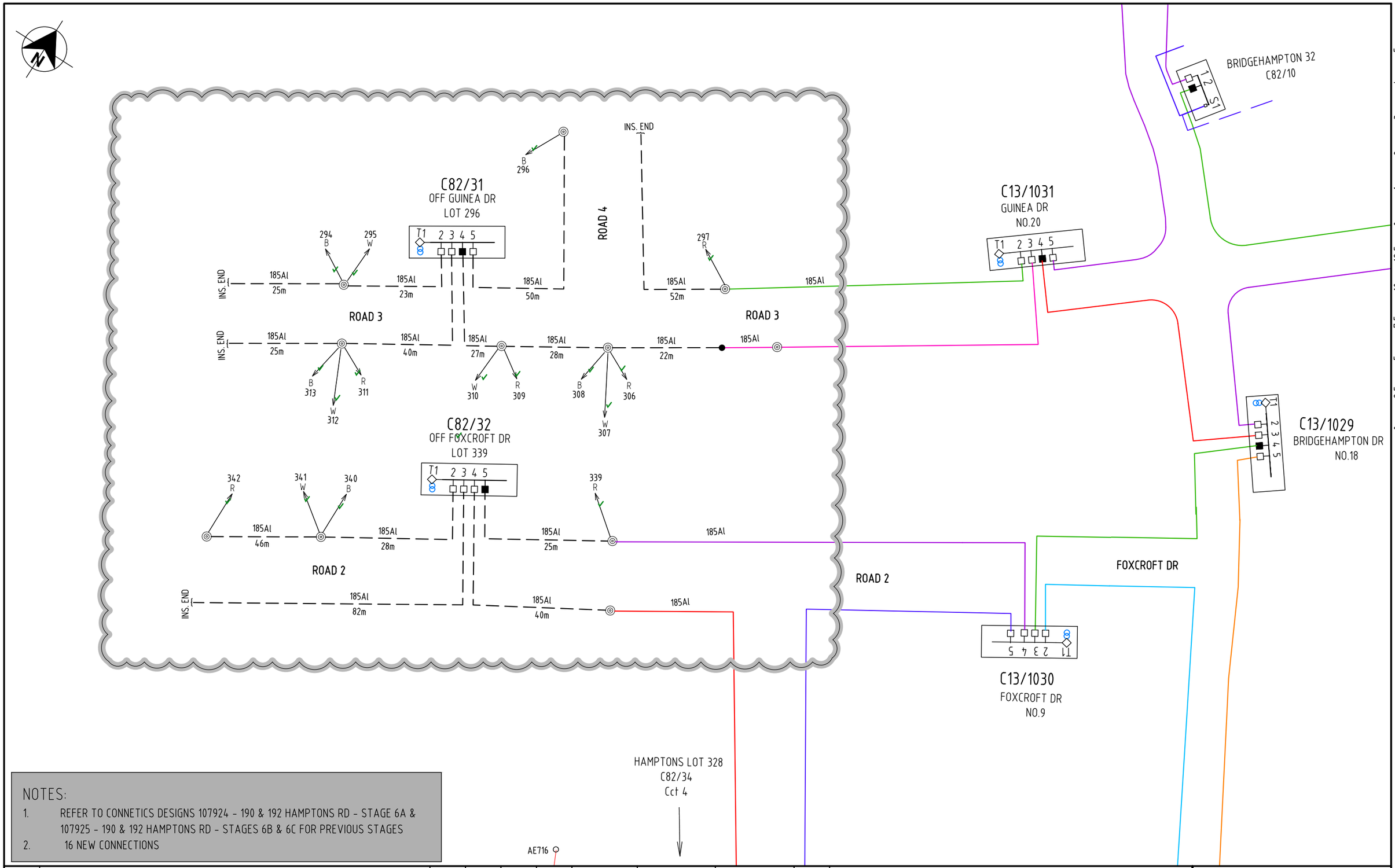
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190 & 192 HAMPTONS ROAD

RESIDENTIAL SUBDIVISION
STAGE 6D & 6E
LV SCHEMATICS - EXISTING

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	108344	LV-01



NOTES:

1. REFER TO CONNETICS DESIGNS 107924 - 190 & 192 HAMPTONS RD - STAGE 6A & 107925 - 190 & 192 HAMPTONS RD - STAGES 6B & 6C FOR PREVIOUS STAGES
2. 16 NEW CONNECTIONS

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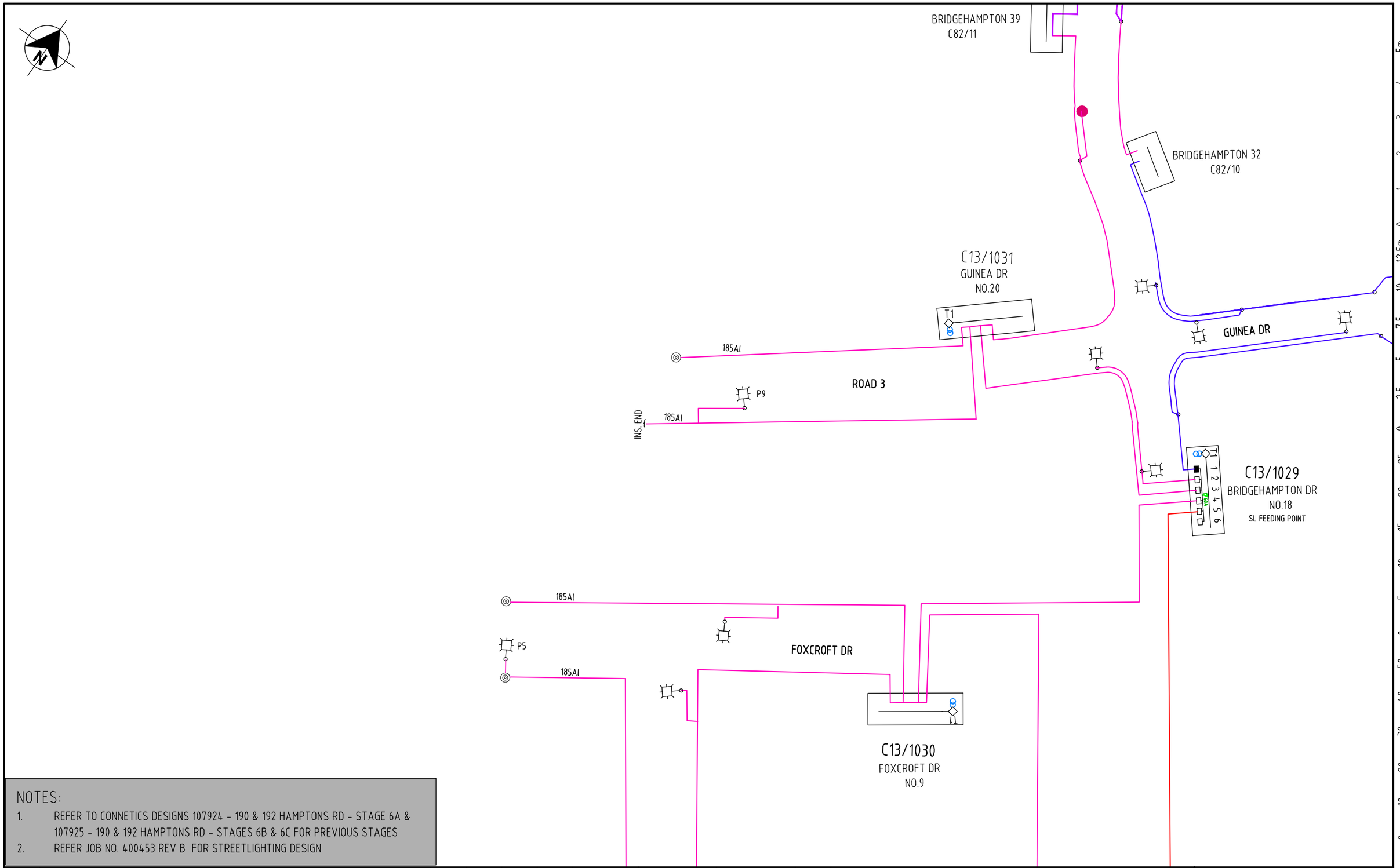
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190 & 192 HAMPTONS ROAD

RESIDENTIAL SUBDIVISION
STAGE 6D & 6E
LV SCHEMATICS - PROPOSED

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	108344	LV-02



NOTES:

1. REFER TO CONNETICS DESIGNS 107924 - 190 & 192 HAMPTONS RD - STAGE 6A & 107925 - 190 & 192 HAMPTONS RD - STAGES 6B & 6C FOR PREVIOUS STAGES
2. REFER JOB NO. 400453 REV B FOR STREETLIGHTING DESIGN

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
A	ORIGINAL ISSUE	09/06/26	N.P	N.P	M.O	DESIGNED	N.PAUL		11/05/26
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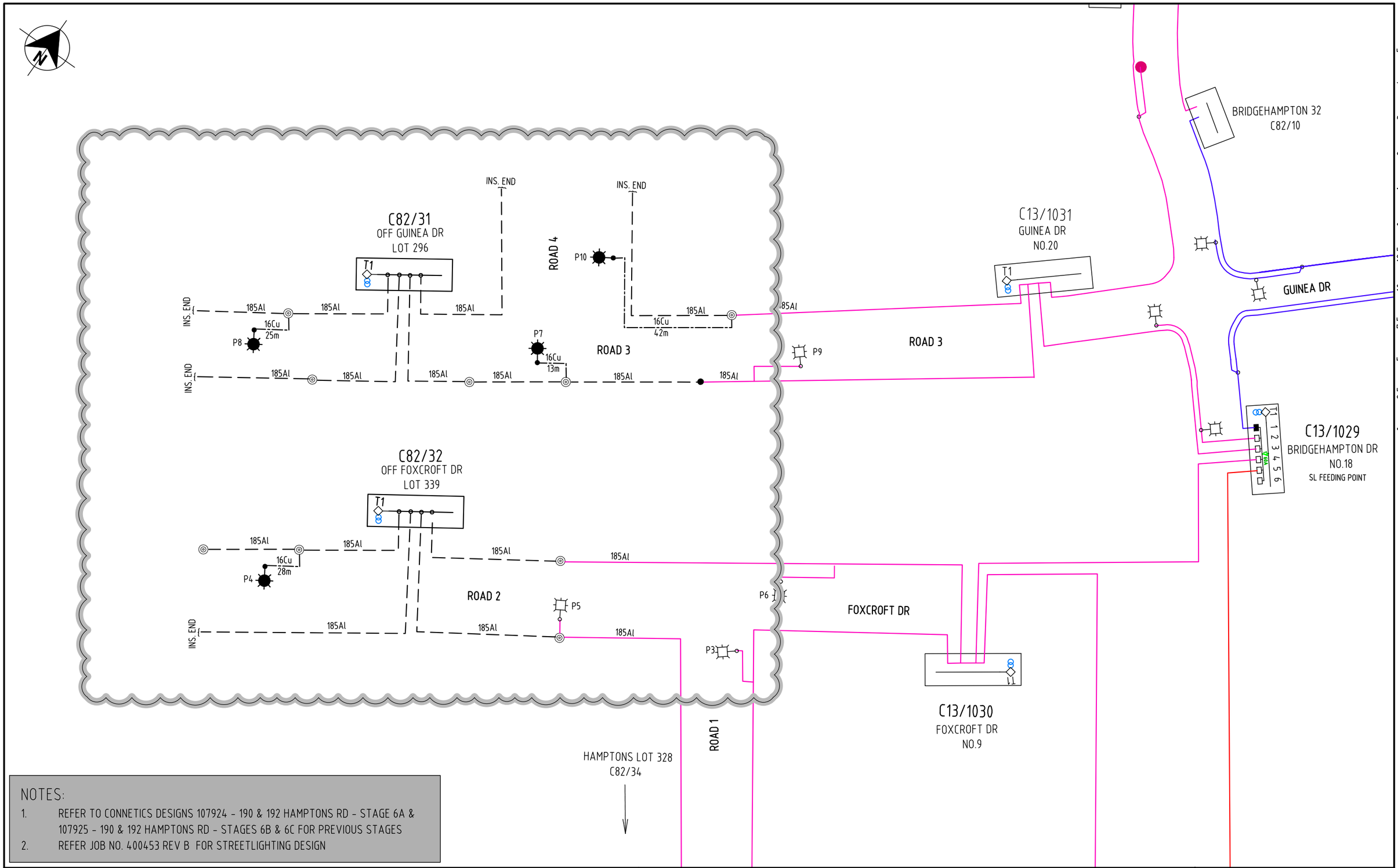
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Orion

190 & 192 HAMPTONS ROAD

RESIDENTIAL SUBDIVISION
STAGE 6D & 6E
SL SCHEMATICS - EXISTING

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	108344	SL-01



NOTES:

1. REFER TO CONNETICS DESIGNS 107924 - 190 & 192 HAMPTONS RD - STAGE 6A & 107925 - 190 & 192 HAMPTONS RD - STAGES 6B & 6C FOR PREVIOUS STAGES
2. REFER JOB NO. 400453 REV B FOR STREETLIGHTING DESIGN

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD	TASK	NAME	SIGNATURE	DATED
A	ORIGINAL ISSUE	09/06/26	N.P	N.P	M.O	DESIGNED	N.PAUL		11/05/26
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190 & 192 HAMPTONS ROAD

RESIDENTIAL SUBDIVISION
STAGE 6D & 6E
SL SCHEMATICS - PROPOSED

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
NTS (A3)	108344	SL-02

NOTES:
1. 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 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 CoC TO DEVELOPER
2. ALL TRENCHING & RESTORATION TO BE PROVIDED BY CIVIL TRENCHING CONTRACTOR. REFER TO ORION STANDARD NW72.22.02

WARNING!!
CONTAMINATED LAND
ADDITIONAL INVESTIGATION AND CONTROLS REQUIRED

FULL KIOSK
2.136m x 1.96m
UE 2.2.4

INSTALL 185Al 3C 11kV TO STAGE BDY & INSULATE END

INSTALL 185Al 3C+1 CuNS TO STAGE BDY & INSULATE END

DB-U 3-FUSES

INSTALL 185Al 3C 11kV & 185Al 3C+1 CuNS LV

INSTALL 185Al 3C+1 CuNS LV & 16Cu 1C NS SL

P10

294 295 296 297 298 299 300

AT C82/31
INSTALL FULL KIOSK WITH 200kVA & 3K1T MSU

C82/31
OFF GUINEA DR
LOT. 296

INSTALL 185Al 3C 11kV, 185Al 3C+1 CuNS LV & 16Cu 1C NS SL

INSTALL 185Al 3C 11kV & 185Al 3C+1 CuNS LV

ROAD 4

INSTALL 185Al 3C 11kV, 185Al 3C+1 CuNS LV & 16Cu 1C NS SL

LOCATE EX. 3C 185Al 11kV Cd14043. THRU JOINT TO 185Al 3C 11kV

DB-EX

Ex.185Al 3C 11kV

INSTALL 185Al 3C 11kV & 185Al 3C+1 CuNS TO STAGE BDY & INSULATE ENDS

P8

DEVELOPER TO INSTALL 2-150mm & 2-100mm PVC DUCTS. HAUL THRU 2-185Al 3C+1 CuNS LV

INSTALL 2-185Al 3C 11kV & 185Al 3C+1 CuNS LV

DEVELOPER TO INSTALL 3-150mm PVC DUCTS. HAUL THRU 185Al 3C 11kV

ROAD 3

P7

P9

INSTALL 185Al 3C+1 CuNS

Ex.185Al 3C+1 CUNS LV

INSTALL 185Al 3C+1 CuNS LV TO STAGE BDY & INSULATE END

INSTALL 185Al 3C+1 CuNS

INSTALL 2-25Cu 1C NS CUSTOMER SERVICES

INSTALL 185Al 3C+1 CuNS

INSTALL 185Al 3C+1 CuNS LV & 16Cu 1C NS SL

INSTALL 2-25Cu 1C NS CUSTOMER SERVICES

LOCATE EX. 185Al 3C+1 CuNS LV. THRU JOINT TO 185Al 3C+1 CuNS LV

313 310 309 306 305 304 303

25Cu 25Cu 25Cu 25Cu

312 311 308 307 315

NOTES:
1. REFER TO CONNETICS DESIGNS 107924 - 190 & 192 HAMPTONS RD - STAGE 6A & 107925 - 190 & 192 HAMPTONS RD - STAGES 6B & 6C FOR PREVIOUS DESIGN STAGES
2. REFER JOB NO. 400453 REV B FOR STREETLIGHTING DESIGN

CP-02 CP-02

1:100 (A3) 1:250 (A3) 1:500 (A3) 1:1000 (A3)

ISSUE	DESCRIPTION	DATE	DESIGN	DRAWN	CHECKD
A	ORIGINAL ISSUE	09/06/26	N.P	N.P	M.O

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A

190 & 192 HAMPTONS ROAD

RESIDENTIAL SUBDIVISION
STAGE 6D & 6E
CABLE PLAN

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
1:500(A3)	108344	CP-01

CP-01

CP-01

FULL KIOSK
2.136m x 1.96m
UE 2.2.4

AT C82/32
INSTALL FULL KIOSK WITH
200kVA & 2K1T MSU

342

341

340

339

314

INSTALL 185Al 3C 11kV, 185Al
3C+1 CuNS LV & 16Cu 1C NS SL

INSTALL 185Al 3C 11kV
&185Al 3C+1 CuNS LV

C82/32
OFF FOXCROFT DR
LOT. 339

INSTALL 185Al 3C 11kV
&185Al 3C+1 CuNS LV

DB-U
3-FUSES

DB-U
3-FUSES

DB-EX

IE

Ex.185Al 3C 11kV

INSTALL 185Al 3C 11kV TO
STAGE BDY & INSULATE
END

P4

ROAD 2

DEVELOPER TO INSTALL 2-150mm
& 2-100mm PVC DUCTS. HAUL
THRU 2-185Al 3C+1 CuNS LV

LOCATE EX. 3C 185Al 11kV.
THRU JOINT TO 185Al 3C 11kV

FOXCROFT DR

P5

IE

INSTALL 185Al 3C+1 CuNS
LV TO STAGE BDY &
INSULATE END

INSTALL 185Al 3C+1 CuNS LV

INSTALL 185Al 3C+1 CuNS LV

DB-EX

322

321

WARNING!!
CONTAMINATED LAND
ADDITIONAL INVESTIGATION
AND CONTROLS REQUIRED

NOTES:
1. 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 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 CoC TO DEVELOPER
2. ALL TRENCHING & RESTORATION TO BE PROVIDED BY CIVIL TRENCHING CONTRACTOR. REFER TO ORION STANDARD NW72.22.02

NOTES:
1. REFER TO DESIGNS 107924 - 190 & 192 HAMPTONS RD - STAGE 6A & 107925 - 190 & 192 HAMPTONS RD - STAGES 6B & 6C
2. REFER JOB NO. 400453 REV B FOR STREETLIGHTING DESIGN

1001

325

ROAD 1

AE716

1:100 (A3) 5m 4 3 2 1 0
1:250 (A3) 12.5m 10 7.5 5 2.5 0
1:500 (A3) 25m 20 15 10 5 0
1:1000 (A3) 50m 40 30 20 10 0

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A	ORIGINAL ISSUE	09/06/26	N.P	N.P	M.O	DESIGNED	N.PAUL		11/05/26
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190 & 192 HAMPTONS ROAD

RESIDENTIAL SUBDIVISION
STAGE 6D & 6E
CABLE PLAN

connetics
ALL WAYS CONNECTING

SCALE(SIZE)	DRAWING NO.	SHEET
1:500(A3)	108344	CP-02

DOCUMENT TRANSMITTAL NOTICE

connetics
ALL WAYS CONNECTING
DESIGN + ENGINEERING

Project The Hamptons Sub-Division - Stage 6A-B-C

Project No 4016915

Discipline Lighting Design

Page 1 of 1

	Date of Issue									
Year	26	26								
Month	2	2								
Day	23	24								

Doc. No.	Document Title	Rev	Issue								
400453	The Hamptons Sub-Division Stage 6A-B-C - Sheet 1	B	A	B							
400453	The Hamptons Sub-Division Stage 6A-B-C - Sheet 2	B	A	B							
	Pole Offset drawing										
400453	Autocad DWG Format	B	A	B							
	Producer Statement										
	Design Report										
	Street Lighting Specification										
	17.0M Road - Road 1 & 3 - Single Sided										
	17.0M Road - Road 1 & 3 - Staggered										
	17.0M Road - Road 2 & 4 - Single Sided										
	17.0M Road - Road 2 & 4 - Staggered										
	20.0m Road - Hamptons Road - Single Sided										
	Windsor Urban - Poles Drawing - Pole L1										
	Windsor Urban - Poles Drawing - Pole L2										
	Windsor Urban - Pole Producer Statement										
	Pole Structural Compliance Certificate - Windsor Urban										
224	Lighting Completion Form (Connetics)										
	Lighting Completion Form (Installer)										
	Orion Test Certificate										
	Certificate of Compliance										
	As-Built Drawings										
	Earth Test Certificate										

DELIVERY - Company Name	Attention	COPIES								
Davie Lovell-Smits	Ben Fox	#	#							
Windsor Urban Ltd.	Marcus Brandrick	#	#							
Selwyn District Council (Representative)	Brendan Hayman									
Connetics Ltd.	RAMM Data Entry									
Reason For Issue		P	P							

***P** - Preliminary / **A** - Approval / **T** - Tender / **C** - Construction / **X** - 224 / **RQ** -Requested*

Document Type Symbol

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A3 Copy	**
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Connetics Ltd

11 Islington Avenue
Islington
Christchurch 8042

P: (03) 353 7200
F: (03) 353 7201
E: www.connetics.co.nz

LIGHTING SCHEDULE

L1 Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 5)
Luminaire: Philips Roadgrace 18W LED luminaire (BRP711 LED23NW 18W DWP) 4000K, Color: Black
Column: 7.5m SDC Hobsonville Ground planted column complete with a **Single** 1.0m Straight outreach arm, Color: Traffic Black.
Connection: Connect to U/G SLN.

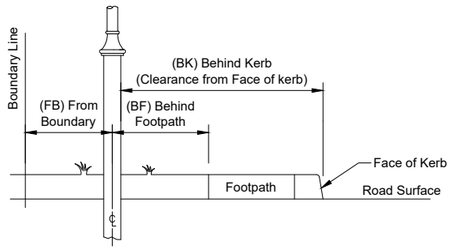
L2 Supply and install new luminaire on new column. (See Luminaire & Column Notes 1 to 5)
Luminaire: Philips Roadgrace 26W LED luminaire (BRP711 LED30NW 26W PSDD I DWP) 4000K, Color: Black
Column: 7.5m SDC Hobsonville Ground planted column complete with a **Single** 1.0m Straight outreach arm, Color: Traffic Black.
SPECIAL COLUMN - NOTE THAT THIS COLUMN HAS A PLANTING DEPTH OF 2.0M
Connection: Connect to U/G SLN.

MAXIMUM DESIGN SPACING

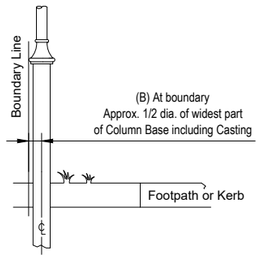
Street Name	Width	Arrangement Type*	Max Spacing
Road 1 & 3	17.0m	Staggered	59.8m
Road 1 & 3	17.0m	Staggered	59.8m
Road 2 & 4	17.0m	Single Sided	60.2m
Road 2 & 4	17.0m	Staggered	60.2m
Hamptons Road	20.0m	Single Sided	64.9m

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

TYPICAL COLUMN POSITION:



Column to be installed from Boundary Line, Behind Footpath or from Face of Kerb



Column to be installed at Boundary Line

ACCEPTED
by Peter Johnson on: 16 07 2024, 01:26 pm
Orion

SYMBOLS:

E Existing column, outreach arm and luminaire to remain.

Lx New column, Single outreach arm and luminaire.

SYMBOLS LEGEND:

LX Lighting Schedule Reference
XXW Luminaire Wattage
P1 Column Identification
0.0m-XX Column offset
X° Luminaire Tilt from the horizontal (See Adjustment Table)

Offset Descriptions

BF	Behind Footpath
BK	Behind Kerb
C	Center
M	Center of Median

For Decorative Tubular and Octagonal Column

With Decorative Arms and 0° Spigot*

Value Shown on Plan	Adjustment on Luminaire
10°	10°
5°	5°
0°	0°
-5°	-5°

* As per CCC and SDC Standard Column Requirements

ISSUED FOR INFORMATION
Tuesday, 24 February 2026 10:22:59 am
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KEY PLAN



NOTES:

1. Road illumination is designed to comply with AS/NZS 1158; subcategory PR4, 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.

1 : 1500

1 : 1000

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Rev	Description	Date	Des	Dn	Chk	Apd	Or Acp	Contractor
A	Issued to Client for Approval	23/02/26	RSD	RSD	·	·	·	·
B	Issued to Client for Approval	24/02/26	RSD	RSD	·	·	·	·

Designed	R. St-Denis / Conn	Feb 26
Drawn	R. St-Denis / Conn	Feb 26
Checked	J. Lim / Conn	-
Approved	B. Hayman for SDC	-
Connetics		

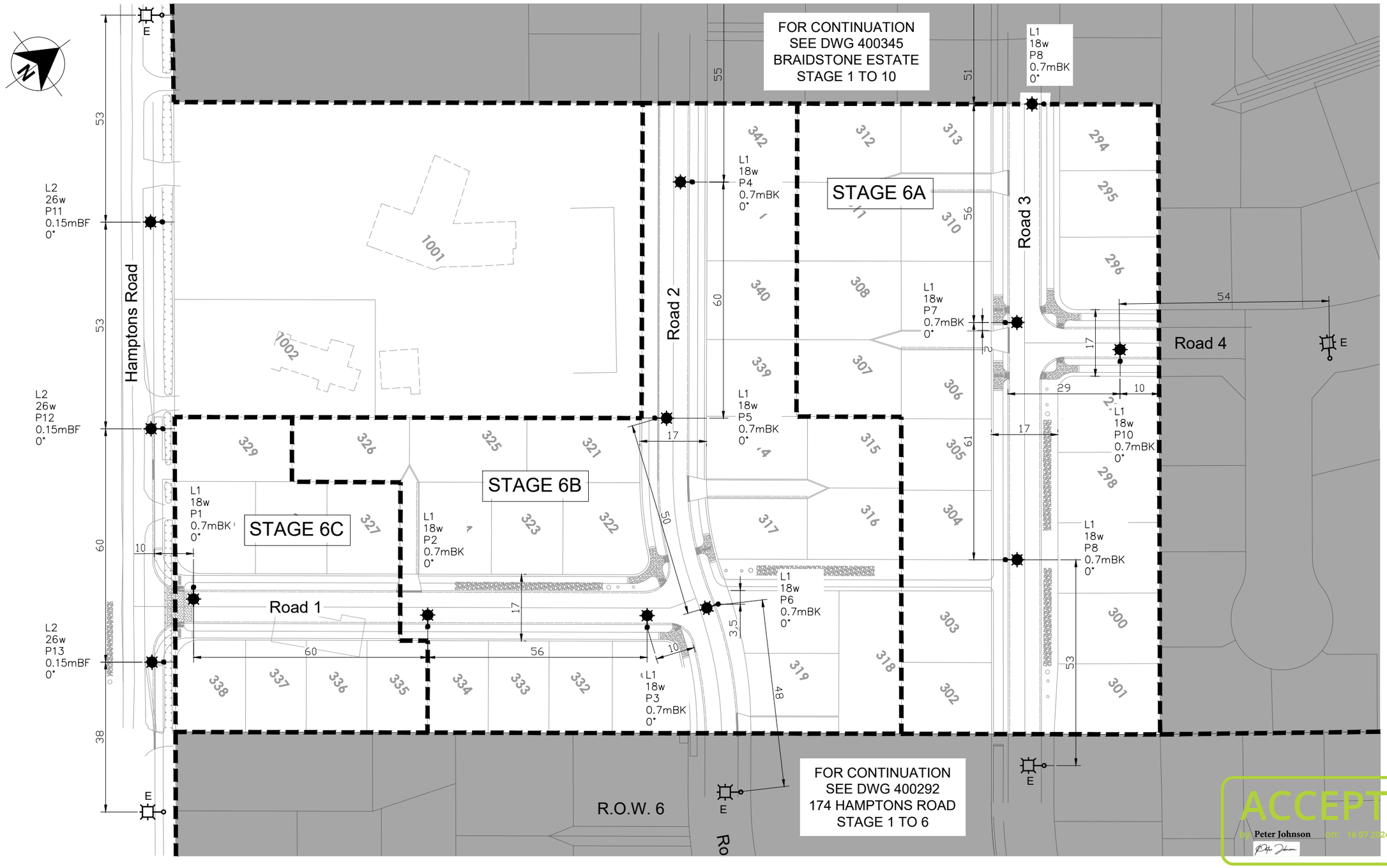
Scale 1:1000
Revision B

STREETLIGHTING LAYOUT

The Hanptons Sub-Division
Stage 6A-B-C
Prebbleton

windsorurban LIGHTING FURNITURE
611 Halswell Junction Rd, Hornby, Christchurch, NZ
(03) 349-7853 fax (03) 349-6529 freeph (0800) 845-845

Size	Drawing Number	Sheet
A3	400453	2/2



NOTES:

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

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Tuesday, 24 February 2026 10:23:19 am
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A	Issued to Client for Approval	23/02/26	RSD	RSD	·	·	·	·
B	Issued to Client for Approval	24/02/26	RSD	RSD	·	·	·	·

Designed	R. St-Denis / Conn	Feb 26
Drawn	R. St-Denis / Conn	Feb 26
Checked	J. Lim / Conn	-
Approved	B. Hayman for SDC	-
Connetics		

Scale 1:1000

Revision B

STREETLIGHTING LAYOUT

The Hanptons Sub-Division
Stage 6A-B-C
Prebbleton

windsorurban LIGHTING FURNITURE
611 Halswell Junction Rd, Hornby, Christchurch, NZ
(03) 349-7853 fax (03) 349-6529 freeph (0800) 845-845

Size	Drawing Number	Sheet
A3	400453	2/2

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