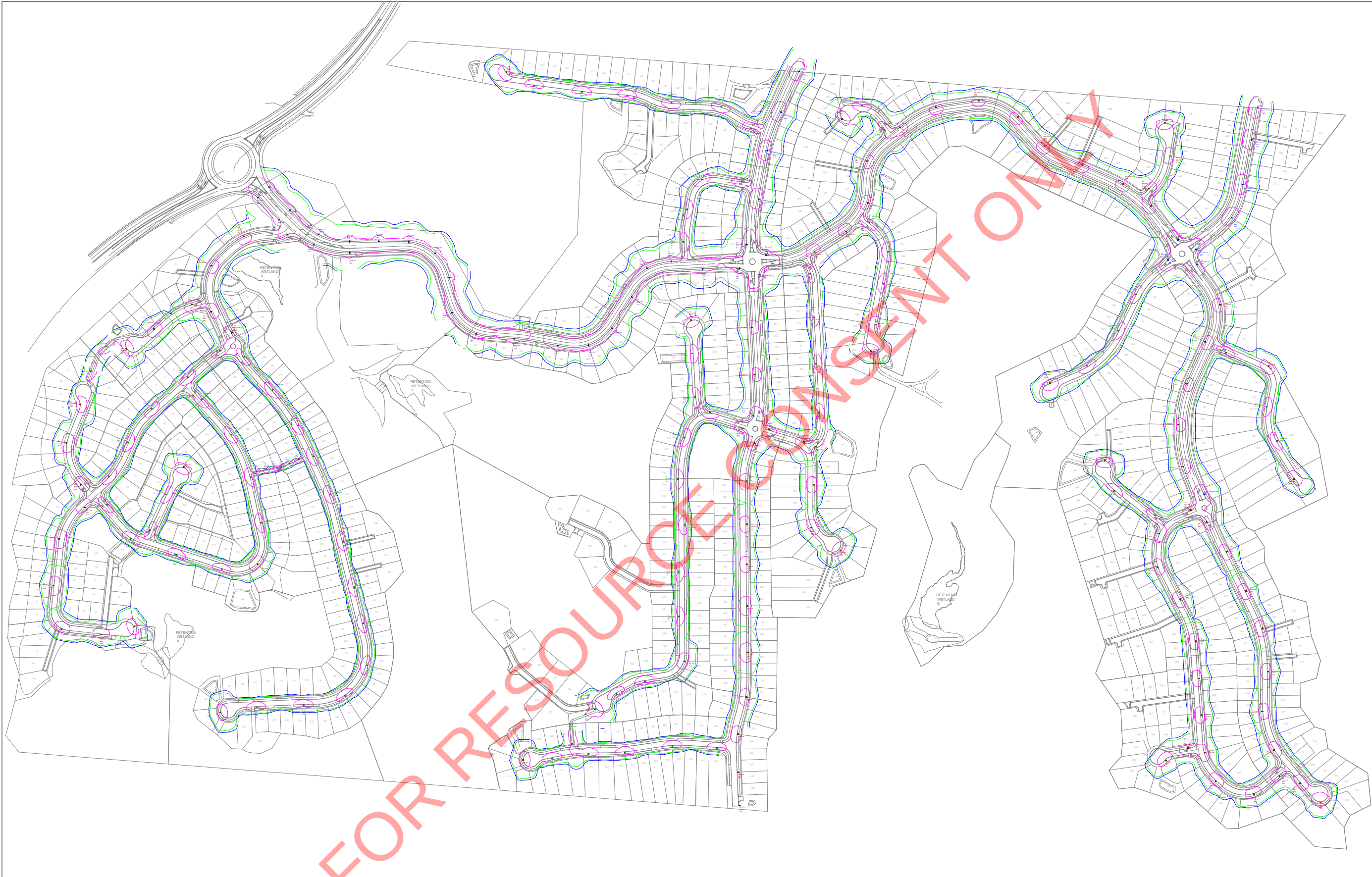
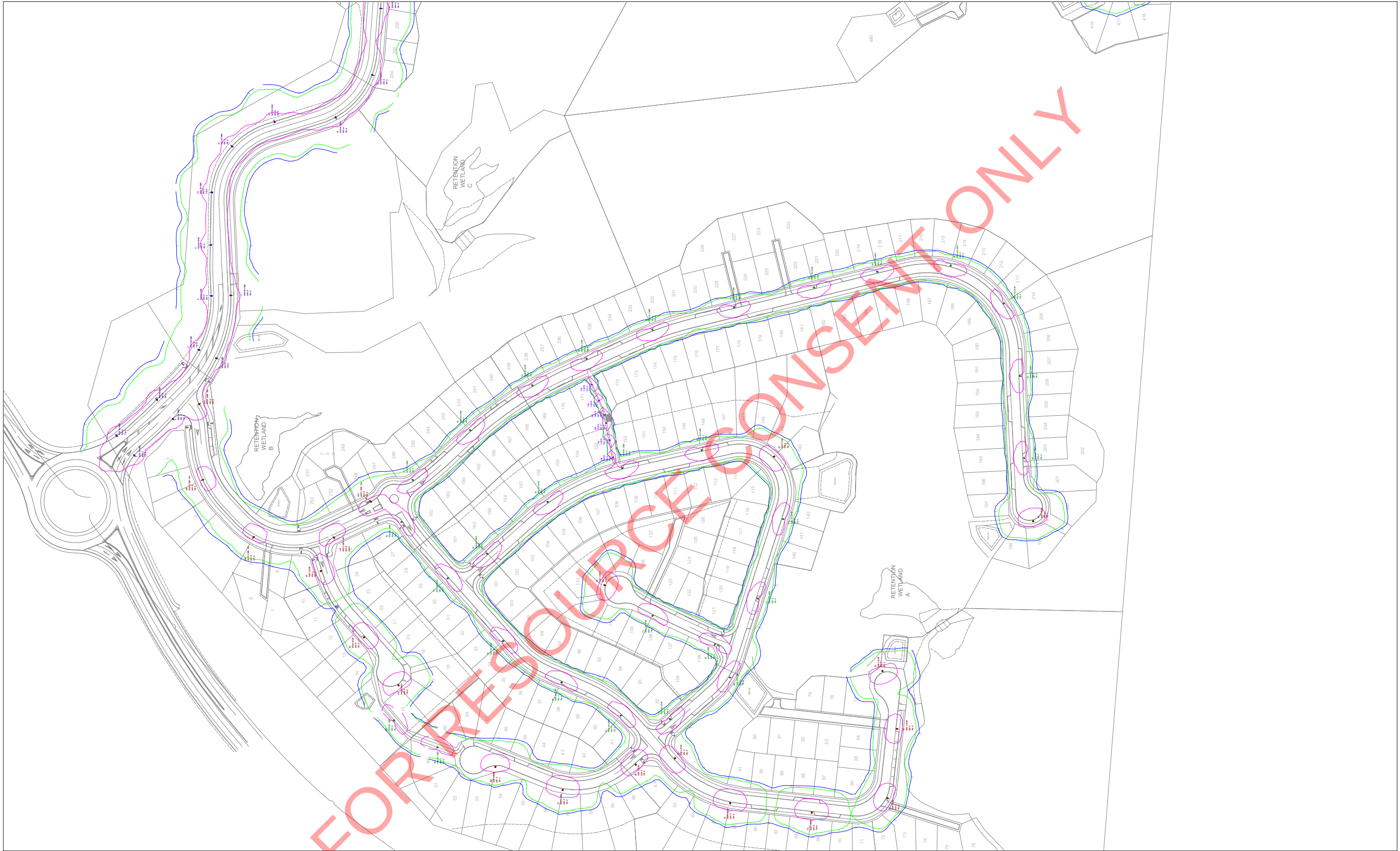




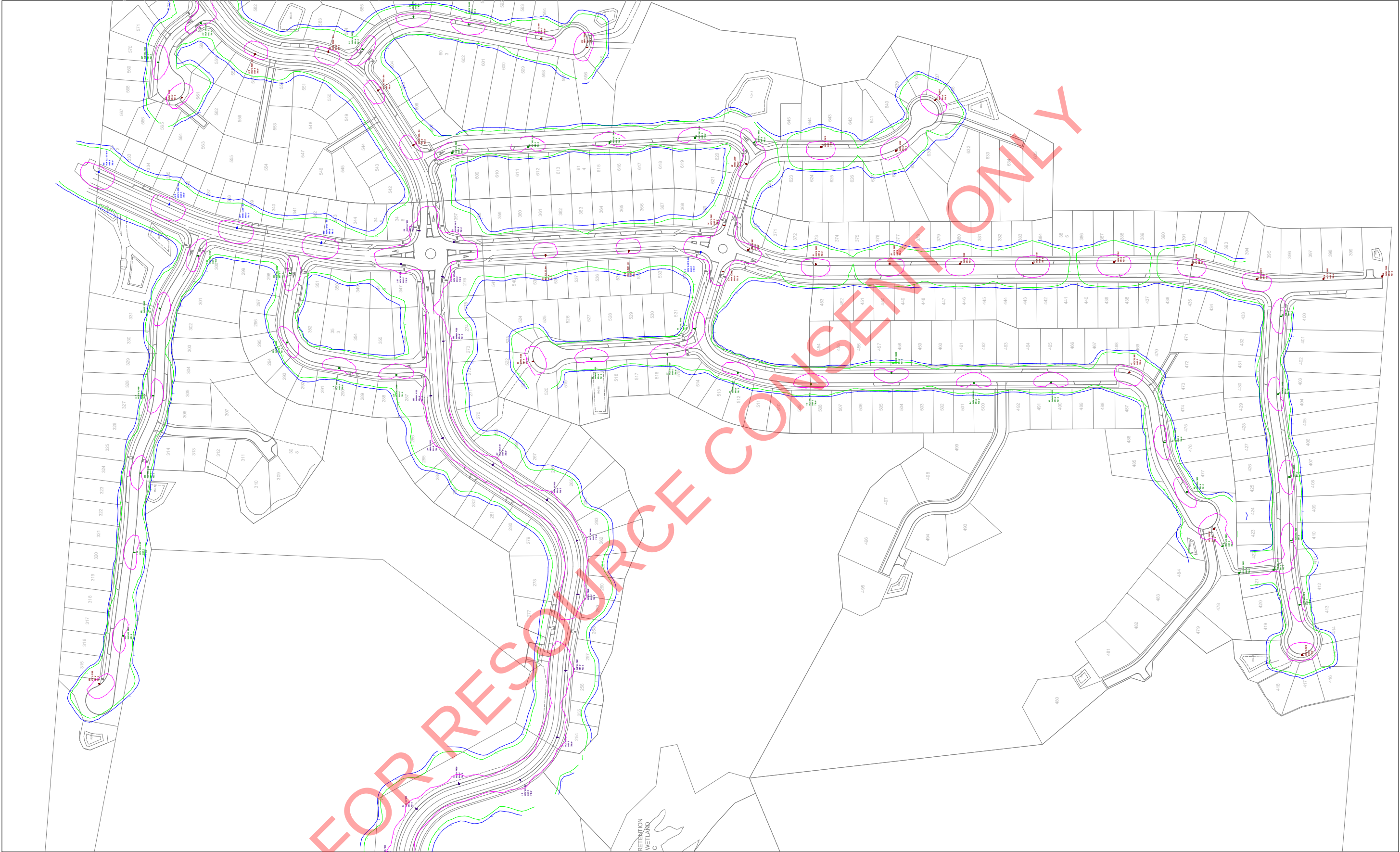
PROJECT NUMBER		PROJECT	DRAWING INFORMATION		COMPANY	AS PREPARED FOR
10075		MT WELCOME STATION 422 SH1 PUKERUA BAY PORIRUA	ROADWAY LIGHTING PLAN - ISOLUX PLOTS		IBEX LIGHTING L1, THE PRECINCT 40 ONEHUNGA MALL AUCKLAND 1061 2 MATARAWA PLACE TAURIKO TAURANGA 3171 NZ FREEPHONE 0800 63 65 67 www.ibexlighting.com	 Classic Developments  ENVELOPE
DRAWING NO. :	REVISION:		Scale : 1 : 1500 @ A3	DESIGNED BY: SF		
1	E		Date:12-November-2025	CHECKED BY: /		





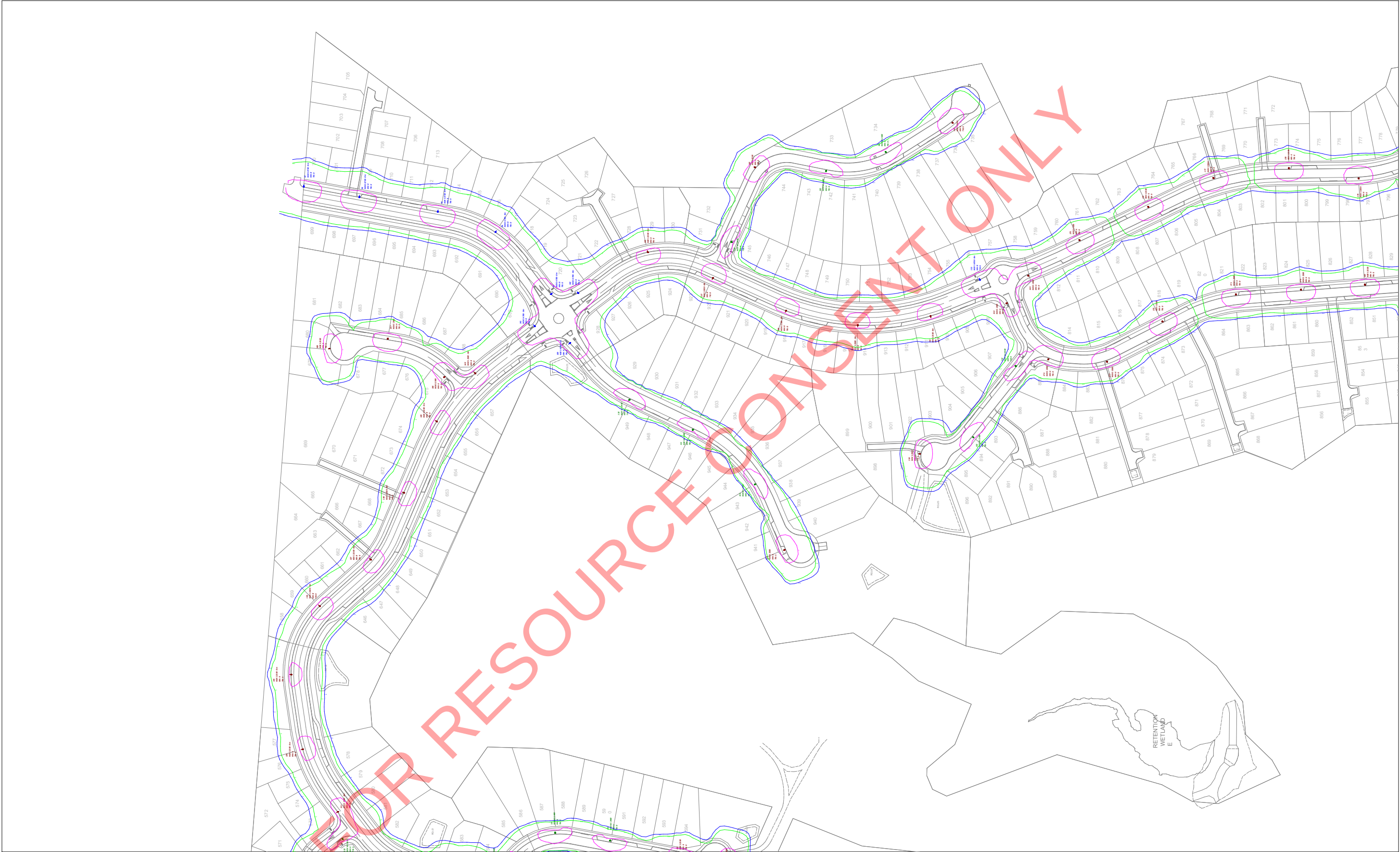
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Luminaire Schedule					
Project: 09 - Luminaires - Proposed					
Symbol	Qty	Label	Mounting Height	Outreach Length	Lum. Tilt Angle
	6	CANTO	1 metre	N/A	0 degrees
	75	NOX W1 2400	6 metres	N/A	0 degrees
	62	NOX S 2500	6 metres	N/A	0 degrees
	24	NOX S 2500 - 8m	8 metres	1 metre	0 degrees
	5	NOX S 3700	6 metres	N/A	0 degrees
	9	NOX S 3700 - 8m	8 metres	1 metre	0 degrees
	1	NOX SC4 4000	6 metres	N/A	0 degrees
	5	NOX S 4700 - 8m	8 metres	1 metre	0 degrees
	26	NOX M 7400	8 metres	1 metre	0 degrees

Luminaire Details	"CANTO"	"NOX W1 2400"	"NOX S 2500"	"NOX S 3700"
Manufacturer and Product Name	BLRD_CNTO_NARROW	NOX S Walkway LL062304PH	NSS-08-025-730-P1	NSS-16-037-730-P1
Lamp type and Rating	LED 23.1W	LED 20.6W	LED 18.6W	LED 26.6W
Luminous flux	2545 Lumens(3000K)	2400 Lumens (3000K)	2478 Lumens (3000K)	3673 Lumens (3000K)
Origin of Photometric Data	BLRD_CNTO_ASM scaled	LL062304PH scaled	N1-50-740-P1 scaled	NSS-16-027-740-P1
Upward Waste Light Ratio	0.0% at 0 degree tilt	0.0% at 0 degree tilt	0.0% at 0 degree tilt	0.0% at 0 degree tilt
Maintenance factor used	0.8	0.8	0.80	0.80
Peak Luminous Intensity (Glare) : 60-80 degrees	1409 Candela	2074 Candela	1162 Candela	1696 Candela
Peak Luminous Intensity (Glare) : 80 degrees	295 Candela	698 Candela	321 Candela	374 Candela
Luminaire Details	"NOX S 4700"	"NOX SC4 4000"	"NOX M 7400"	
Manufacturer and Product Name	NSS-16-047-730-P1	NMS-24-074-730-SC4	NMS-32-074-730-V2	
Lamp type and Rating	LED 35.6W	LED 27.3W	LED 51.4W	
Luminous flux	4744 Lumens (3000K)	4000 Lumens (3000K)	7369 Lumens (3000K)	
Origin of Photometric Data	NSS-16-027-740-P1	NMS-32-101-740-V2	NMS-32-101-740-V2	
Upward Waste Light Ratio	0.0% at 0 degree tilt	0.0% at 0 degree tilt	0.0% at 0 degree tilt	
Maintenance factor used	0.80	0.80	0.80	
Peak Luminous Intensity (Glare) : 60-80 degrees	2191 Candela	2993 Candela	4963 Candela	
Peak Luminous Intensity (Glare) : 80 degrees	483 Candela	243 Candela	2321 Candela	

GENERAL NOTES:

- These lighting calculations are based upon the Initial Lamp Lumens as described in the product information table(s) and a Maintenance Factor calculated in accordance with AS/NZS 1158.
- Isolux plots show the Illuminance value at Ground Level.
- The Mounting Height of the Luminaire is indicated on the drawing and the Tilt (upcast) angle is zero degrees unless indicated on the drawing.
- All work shall conform to the requirements the local energy supplier and to AS/NZS 3008, AS/NZS 1158, and the Electrical (Safety) Regulations 2010.
- Should there be a clash between a column position and underground services, the column position may be altered by upto 1m while retaining the general pole arrangement. This should be confirmed with the Engineer prior to final installation.

PROJECT NOTES:

- Final pole locations have been agreed to by the client.
- Lighting from existing poles and luminaires adjacent to the scope of work have been taken into account where details are known.
- For calculation grids and calculation values, refer to the .dwg file of this project.
- A minimum ten (10) year warranty from the date of on site installation shall be provided for the luminaire and electronic control gear.
- Each luminaire shall be supplied with a 7-pin NEMA Socket compliant with ANSI C136.41:2013.
- New LED luminaires shall be supplied with electronic DALI dimmable control gear.
- The lighting standard for each road is documented in the appropriate 'Calculation Summary' table on this sheet.

INSTALLATION NOTES

- Final pole locations are to be confirmed on site prior to installation.
- Columns shall be positioned 1.0m behind the kerb unless otherwise stated or advised.
- Allowable tolerances of the column location are:
 - 0.5m parallel to the carriageway
 - 0.2m perpendicular to the carriageway
 - 0.2m verticallyShould the final pole location be outside the permitted tolerance, a further lighting design may be required.
- Mounting heights are to be measured with respect to the luminaire above the carriageway.
- The contractor shall be responsible for the fixing of outreaches taking into account work on or near existing services. The contractor shall liaise with the appropriate service provider in relation to working on or near services, and shall give a suitable notice period.
- All metal columns, outreaches, and luminaires are to be effectively Earthed. Earthing is to be designed to conform to the requirments of the NZ Electrical (Safety) Regulations and AS/NZS 3000:2018.
- Wiring shall be in accordance with AS/NZS 3000 and AS/NZS 3008:1.2
- The internal wiring between the terminal blocks and the luminaire shall be circular 2C 2.5sq.mm Neutral Screen cable

Design Revision Summary		
Rev.	Date	Comment
-	29/07/25	Original Design
A	12/08/25	Update the type of Poles
B	29/08/25	Add bollards on Accessway under LOT22&502
C	16/10/25	Update the design based on the latest drawing
D	29/07/25	Update the design based on the latest drawing and comments
E	12/11/25	Relocate SL#39,146,182,213

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