

NA240967  
11/04/2024

McDonald's Australia  
21-29 Central Avenue,  
Thornleigh NSW 2120

Dear Stewart Floresta,

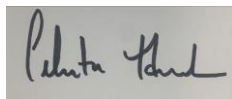
**RE: EXTERNAL SITE LIGHTING PERFORMANCE BRIEF -  
MCDONALDS BEXLEY**

Due to the proximity of the proposed site to roadways (Forest road & Highworth Ave), private residences (adjacent - 3 Highworth Avenue, opposite – Highworth Avenue & Forest Road), the proposed external lighting design for McDonalds Bexley shall comply with the following performance requirements to minimise light spill from the proposed development and any adverse impacts on surrounding roadways and/or properties in accordance with building codes, Australian standards and industry best practice.

- Assuming medium night-time vehicle and/or pedestrian movements the following AS/NZS 1158.3.1:2020 technical parameters are applicable:
  - o A lighting subcategory of PP2 for pedestrian pathways.
  - o A lighting subcategory of PC2 for shared vehicle/pedestrian areas.
  - o A lighting subcategory of PCX for pedestrian crossings.
  - o A lighting subcategory of PCD for disability parking areas.
- Assuming an AS/NZS 4282:2023 environmental zone of "A3" (Medium district brightness for suburban areas in towns and cities) the following technical parameters are applicable:
  - o Obtrusive lighting levels of 2 lux measured at external walls facing the proposed site (curfew).
  - o Threshold increment of 1 measured at driver's eye level in the direction of oncoming traffic.
  - o Less than 2% upward waste light ratio (sky glow).
  - o Maximum light fitting illuminance rating of 2,500 cd (curfew)

The designer shall conduct and submit AS/NZS 1158.3.1:2020 and AS/NZS 4282:2023 calculations using the appropriate light modelling software (i.e. AGI32) and submit to the relevant McDonalds Development manager and/or consulting engineer for review.

**Signature:**



**Date:**

11/04/2024

**Qualifications:**

Bachelor of Engineering  
(Electrical & Electronics)

Master of Engineering Studies &  
Master of Engineering Management

**ELECTRICAL**

Celesta Jeyachandran  
Electrical Designer  
ACOR Consultants Pty Ltd





PERFORMANCE SPECIFICATION:SATELLITE VIEW

CONCEPT - FOR DISCUSSION PURPOSES ONLY

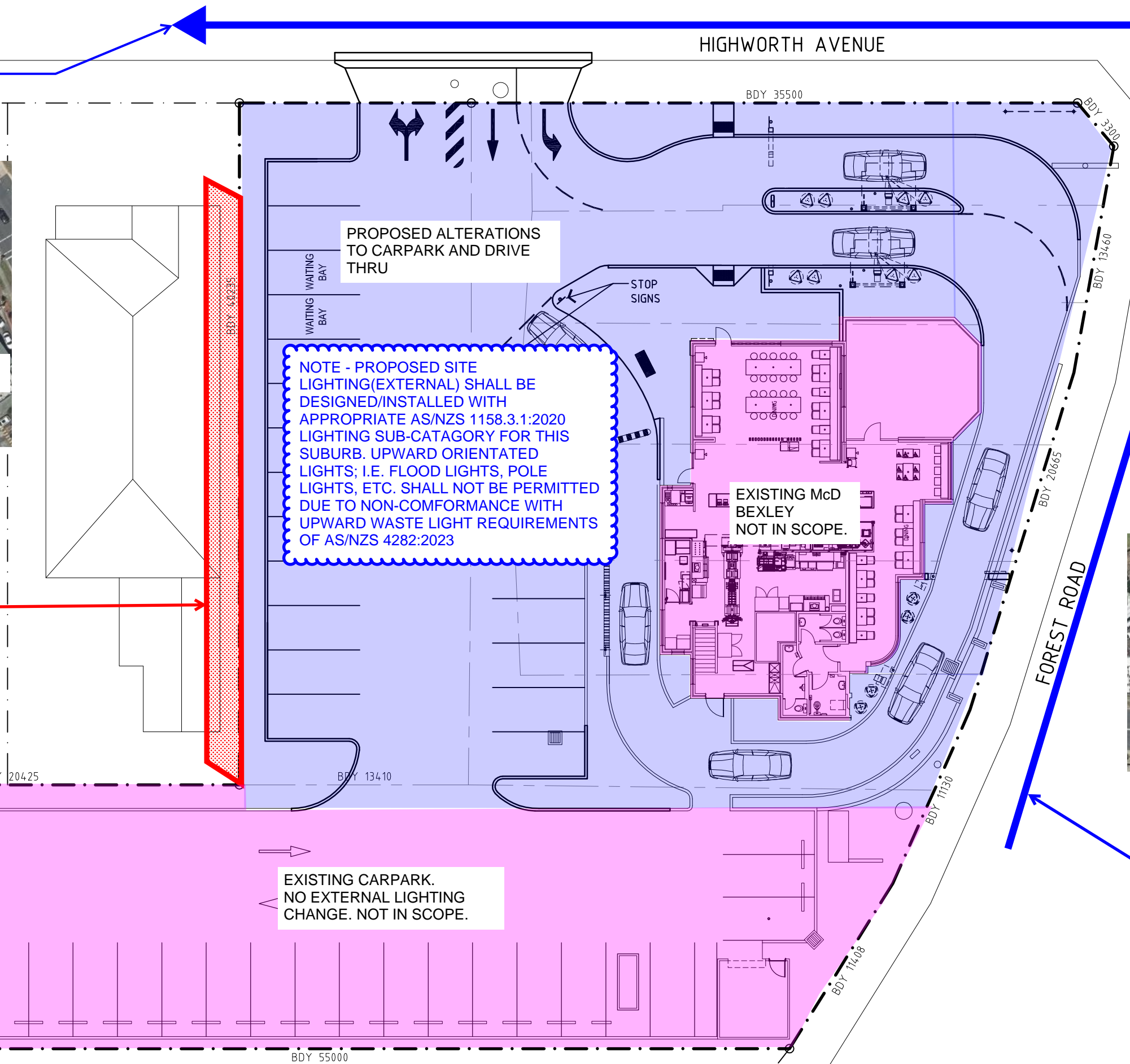
				North	Scale		Client	Architect	<div><div><div>AcOR</div><div>CONSULTANTS</div></div><div><div><div><div><div><div></div><div></div><div></div></div><div><div><div>ACOR CONSULTANTS</div><div>Level 2, 6 Palmer Parade Cremorne VIC 3121 T +61 3 9885 4335</div></div></div><div><div><div><div><div></div><div></div><div></div></div><div><div><div>ACOR CONSULTANTS</div><div>Level 2, 6 Palmer Parade Cremorne VIC 3121 T +61 3 9885 4335</div></div></div><div><div><div><div><div></div><div></div><div></div></div><div><div><div>ACOR CONSULTANTS</div><div>Level 2, 6 Palmer Parade Cremorne VIC 3121 T +61 3 9885 4335</div></div></div></div></div></div></div></div></div></div></div></div></div></div>	Project		Drawing Title				
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Issue. Description				Date	Drawn	Approved	PRINT IN COLOUR					Project No.	Dwg No.			Issue



DESIGNER TO MODEL THRESHOLD INCREMENT CALCULATION POINTS FOR TRAFFIC PASSING SITE ON HIGHWORTH AVENUE IN THE DIRECTION OF TRAFFIC & CONFIRM CONFORMANCE WITH AS/NZS AS/NZS 4282:2023.



DESIGNER TO MODEL VERTICAL OBTRUSIVE LIGHTING CALCULATION POINTS AT BOUNDARY OF ADJACENT RESIDENTIAL BUILDING TO CONFIRM CONFORMANCE WITH AS/NZS 4282:2023.



DESIGNER TO MODEL THRESHOLD INCREMENT CALCULATION POINTS FOR TRAFFIC PASSING SITE ON FOREST ROAD IN THE DIRECTION OF TRAFFIC & CONFIRM CONFORMANCE WITH AS/NZS AS/NZS 4282:2023.

PERFORMANCE SPECIFICATION: PROPOSED PLAN VIEW

CONCEPT - FOR DISCUSSION PURPOSES ONLY

HIGHWORTH AVENUE

BDY 35500

**BLUE ZONE - POLE MOUNTED LUMINARIES TO BE INSTALLED TO PROVIDE COVERAGE TO OPEN CAR-PARK AREA WITH GLARE CONTROL OPTICS TO MINIMISE LIGHT SPILL**



BDY 40235

WAITING BAY

WAITING BAY

BDY 13410

STOP SIGNS

**GREEN ZONE - WALL MOUNTED LUMINARIES TO BE INSTALLED TO PROVIDE COVERAGE TO DRIVE THRU AREA ADJACENT TO BUILDING WITH GLARE CONTROL OPTICS TO MINIMISE LIGHT SPILL**



FOREST ROAD

BDY 20665

BDY 13460

BDY 11130

BDY 11408

BDY 55000

BDY 20425

BDY 16600

EXISTING CARPARK.  
NO EXTERNAL LIGHTING  
CHANGE. NOT IN SCOPE.

No. 557 FOREST ROAD

CONCEPT - FOR DISCUSSION PURPOSES ONLY

					North	Scale	Client	Architect	<div><div>ACOR</div><div>CONSULTANTS</div></div> <div>ACOR Consultants Pty Ltd Level 2, 6 Palmer Parade Cremorne VIC 3121 T +61 3 9885 4335</div> <div><div><div>100% Approved</div><div>100% Approved</div><div>100% Approved</div></div></div>					Project					Drawing Title				
						PRINT IN COLOUR											Drawn	Designed	Q.A. Check		Q.A. Date	Scale @ A3	
Issue	Description	Date	Drawn	Approved	Project No.												Dwg No.			Issue			