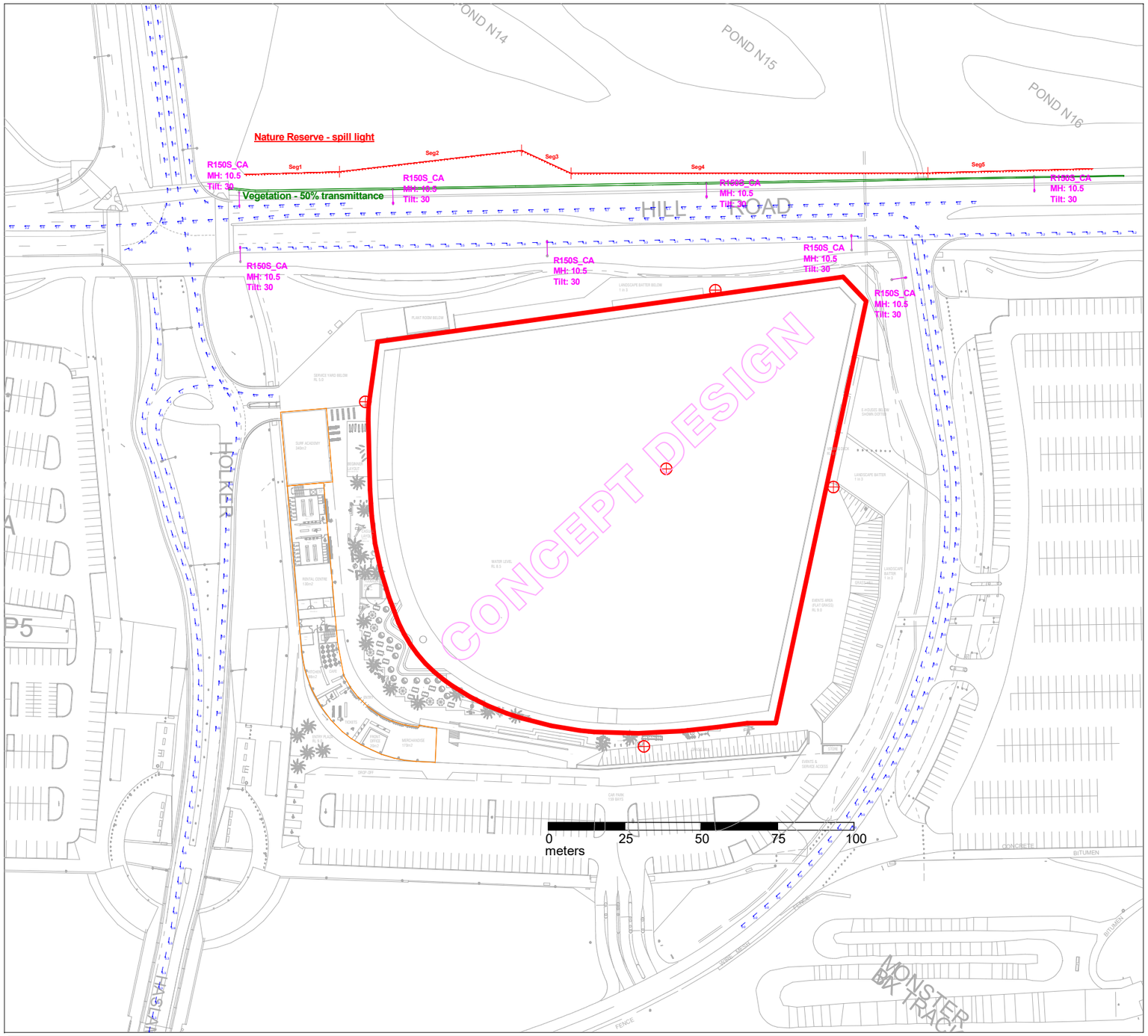

Luminaire Schedule										
Symbol	Qty	Label	Arrangement	LLF	Description	Total Watts	Lum. Lumens	Arm	CIE Type	IES Class
	9	R150S_CA	SINGLE	0.800	Roadster S150CA - 98373	1350	10533	4.5	Direct	Type II

Design Notes

For further calculations or details please consult your GPS representative.

A maintenance factor of 0.8 has been applied to all IP6x luminaires. A maintenance policy should be adopted to support the maintenance factor of 0.80.

Mounting height MH - refers to the height above the pool surface from the luminaire.

Obstructions such as fences HAVE NOT BEEN INCLUDED in this lighting calculation.

AS4282 1997 - "Control of the obtrusive effects of outdoor lighting"
LIGHT TECHNICAL PARAMETERS - Pre-curfew hours
-> Ev Residential Areas - 10 lux maximum
-> Threshold Increment - 20% maximum

DESIGN ASSESSMENT - Street lights SWITCHED ON
Vertical spill illuminance has been calculated on the boundaries as shown from 0m to 25m above ground level (1 x 1m increment grid). The maximum calculated vertical illuminance with floods switched on is 0.6lux maintained (0.75lux initial).

Threshold increment has been calculated on the roadways.
The maximum TI calculated is 9.4% based on an assumed roadway adaptation luminance of 1.0 cd/m2.

This represents a CONCEPT DESIGN ONLY; site and pole locations must be confirmed prior to installation.

ASSUMPTIONS:
We haven't received any clear indication regarding pole and luminaire types; these have been assumed to be Sylvania Roadster 150W HPS Aeroscreen (located as per supplied CAD file).

Vegetation on Hill Rd (North boundary) has been included in the lighting design using a 50% transmittance factor.

THIS DESIGN HAS NOT BEEN ACHIEVED TO MEET THE REQUIREMENTS OF AS2560 or AS/NZS1158 standards .

Rev:	Date:	Comment:	By:	Chkd:	Appd:
Rev3	08.03.2017	Revised design based on clients request.	AP		
Rev2	07.03.2017	Revised design based on clients request.	AP		
Rev1	02.02.2017	Changed pole height, location & lux level.	AP		

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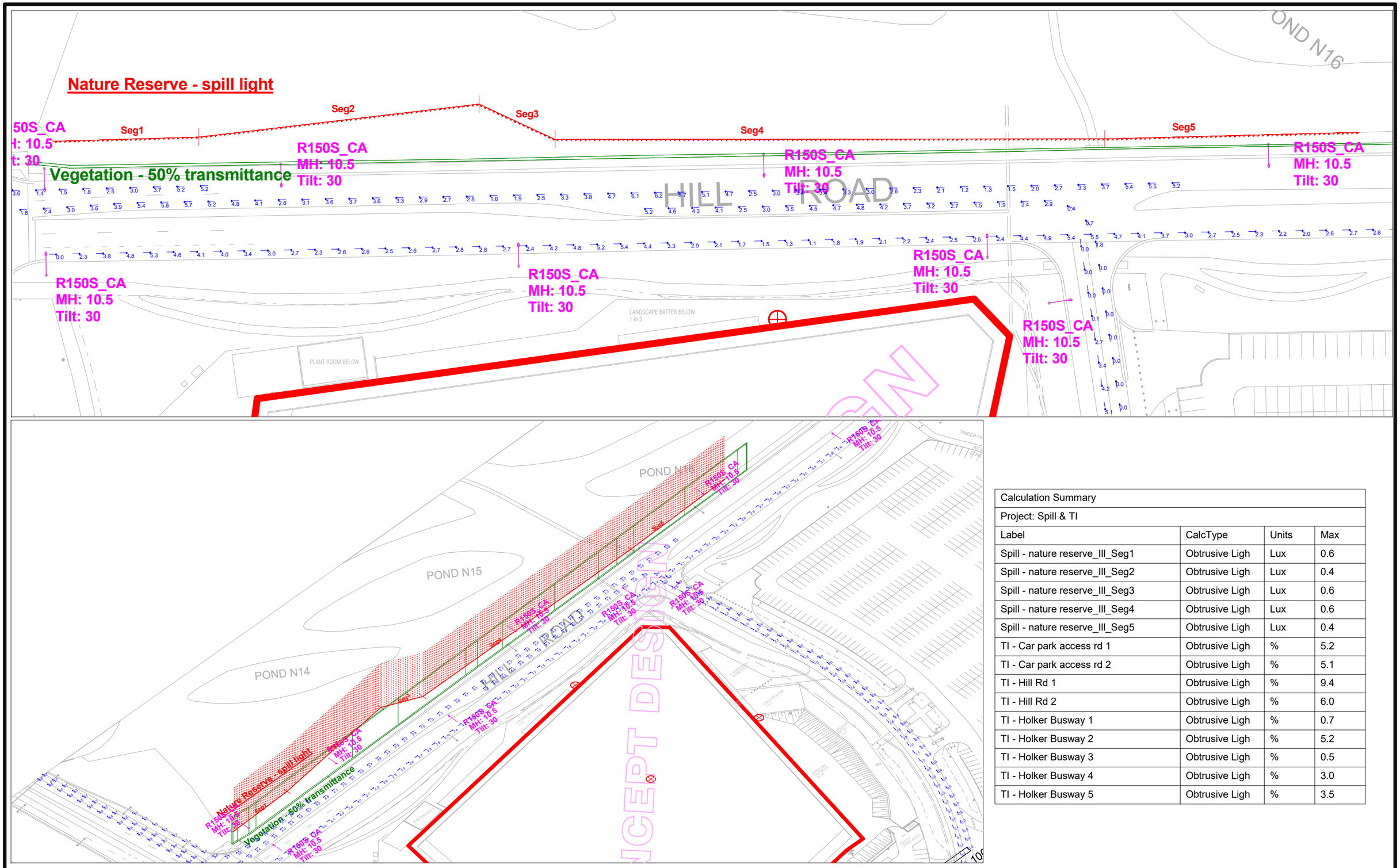
Project: URBNSURF Sydney		Rev: 3	Scale: 1:1500 / A3
Title: AS4282	Designer: AP	Date: 3/9/2017	Page No: Page 1 of 2
Client: WAVEPARK Group	Document No: 0149771Rev3 - URBNSURF Sydney - concept lighting des		



Calculation Summary			
Project: Spill & TI			
Label	CalcType	Units	Max
Spill - nature reserve_III_Seg1	Obtrusive Ligh	Lux	0.6
Spill - nature reserve_III_Seg2	Obtrusive Ligh	Lux	0.4
Spill - nature reserve_III_Seg3	Obtrusive Ligh	Lux	0.6
Spill - nature reserve_III_Seg4	Obtrusive Ligh	Lux	0.6
Spill - nature reserve_III_Seg5	Obtrusive Ligh	Lux	0.4
TI - Car park access rd 1	Obtrusive Ligh	%	5.2
TI - Car park access rd 2	Obtrusive Ligh	%	5.1
TI - Hill Rd 1	Obtrusive Ligh	%	9.4
TI - Hill Rd 2	Obtrusive Ligh	%	6.0
TI - Holker Busway 1	Obtrusive Ligh	%	0.7
TI - Holker Busway 2	Obtrusive Ligh	%	5.2
TI - Holker Busway 3	Obtrusive Ligh	%	0.5
TI - Holker Busway 4	Obtrusive Ligh	%	3.0
TI - Holker Busway 5	Obtrusive Ligh	%	3.5

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Title: AS4282	Designer: AP	Date: 3/9/2017	Page No: Page 2 of 2
Client: WAVEPARK Group	Document No: 0149771Rev3 - URBNSURF Sydney - concept lighting des		