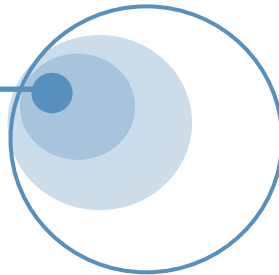
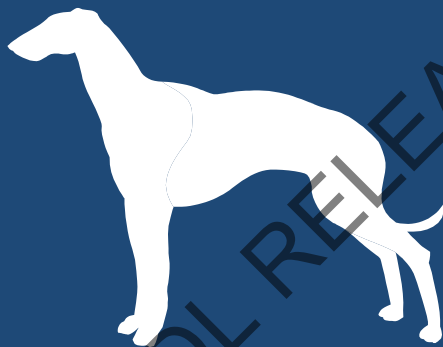


Concord
SYLVANIA
CSE

Where
innovation
comes to
light.



Greyhounds
Logan

RTI/DL RELEASE - EHP

Contents

1. SLA – The Company

2. Overview of SLA Submission

3. Technical Overview - Lighting Design

4. Technical Overview – Control System (Enviro- Dim) and Energy Saving Analysis

5. Luminaire and Lamp Literature

6. Australian Product Content

7. Warranty

8. Delivery

9. Price Basis of Bid

10. Offer Pricing

11. Project References

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13. Attachments

18.10 Calculation Printout

1. SLA – The Company

Sylvania Lighting Australasia (SLA) is a vertically integrated designer, manufacturer and distributor of lighting systems.

With key international partners and access to leading edge lamp technologies, SLA markets a comprehensive selection of lighting fixtures for architectural, industrial/commercial, decorative and residential applications.

Complementary to this extensive range of fixture products, SLA provides a unique access to the diverse international lamp market for incandescent, fluorescent, compact fluorescent, high intensity discharge, halogen, miniature incandescent and special lamp sources.

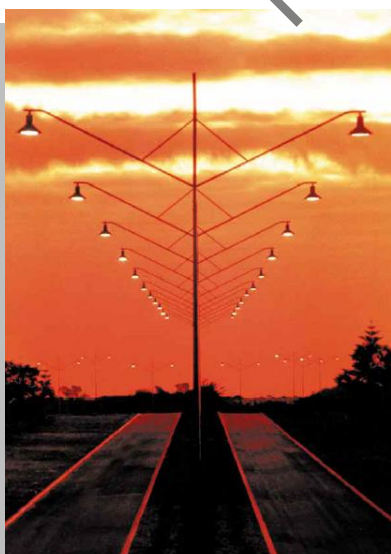
Locally, Sylvania Lighting Australasia markets the respect brands of Concord, Sylvania and represents Siteco.

Under our quality accreditation of ISO9001 and ISO14001, we continue to design and manufacture an extensive line of lighting fixtures for architectural industrial/commercial, decorative and residential applications tailored to Australian standards and conditions

SLA is owned by Gerard Industries, an Australian owned operation. Gerard Industries has a national distribution network throughout Australia and New Zealand, marketing various Lighting brands. With the inclusion of the SLA network, Gerard Industries is the largest lighting company in Australia and New Zealand.

Nationally in Australia, SLA is supported by a lighting product design and manufacturing facility in Gosford, NSW, with office and warehouse facilities situated in each state of Australia and New Zealand.

Locally, in NSW, SLA provides a Customer Service Centre responsible for administration and distribution of SLA products and services.



2. Overview of SLA Submission:

The SLA objective for the Logan Greyhound Facility, floodlighting proposal is based on four important features;

1. Provide the client with an efficient lighting design compliant with international colour television parameters, whilst adopting principals' specific to the lighting requirements of harness racing tracks.
2. Provide a lighting design that acknowledges and complies with the obtrusive light requirements for spill light and glare to the adjacent railway line.
3. Provide the client with an energy efficient system whereby the actual energy savings can be realised over the life-time of the installation.
4. To provide an affordable solution.

The SLA submission is inclusive of the following items;

1. Complete lighting design.
2. The supply and delivery of floodlighting luminaires complete with lamps and control gear.
3. The supply of labour and technical expertise for aiming and commissioning of the installation.

The SLA submission is based on a quantity of 194 off R2 Maxi floodlights spread over 9 off columns, ranging in heights from 20m to 30m above track level. The lighting design, calculated results and the type of column offered are summarised at sections 3 and 5 of this report.

- **R2 Maxi with Environ System:**

The Sylvania Environ Series of luminaires offers the end user a combination of greatly reduced energy consumption whilst extending lamp life.

The Sylvania Environ system is designed to run metal halide lamps to provide constant lumen output during the life of the lamp.

Optimising the control of the lamp, results in lamp life extension of up to 50%.

This condition allows for significant running cost savings and thus reductions in greenhouse gas emissions as well as reduced maintenance costs due to extended re-lamping intervals.

As there are no Australian Standards pertaining to the lighting Grey Hound racing tracks, the SLA lighting design adopts the specification set out in the Sky Racing **Outside Broadcast Technical Digital Production Guide**, as per the client's recommendation.

At the end of this submission we provide relevant luminaire and column data sheets, together with computerised printouts of all relevant lighting calculations.

3. Technical Overview – Lighting Design:

Section 3, "technical overview lighting design", outlines the SLA lighting design for Logan Greyhound Facility.

We state the clients brief and known requirements, summarise the principles employed and the basis behind the design, together with a complete summary of calculated results.

The floodlights are using an energy saving control gear, explained in chapter 4 of this submission.

3.1 Floodlight and Lamp:

The Sylvania R2 Maxi floodlight complete with 2KW, Double ended, short arc, Metal Halide lamp is used for all track lighting calculations as part of this proposal.

The R2 Maxi is a high performance floodlight used for High definition TV applications. Refer section 6 of this report for extra detail regarding R2 Maxi.

The lamp type used within the R2 Maxi is the Sylvania 2KW double ended, short arc Metal Halide lamp (HSI-TD2000W/D). This lamp has an initial light output (100 hours) of 200,000 lumens, Correlated Colour Temperature of 5800K and Colour Rendering Index of Ra92 (Group 1A).

3.2 Emergency Track Lighting - Generator:

We note that the approach taken with Victorian and South Australian tracks regarding emergency track lighting is to install a no-break generator.

Usually, the no-break generator supplies approximately 20% of the track lighting while 80% is supplied from the power grid. The no-break generator runs all the time during the race meeting.

We acknowledge that this is an important feature that should not be overlooked. However, in the interest of both parties, SLA would require more detail from the client regarding the floodlight percentage to be run from the generator and strict

operating parameters for the generator in order to provide an accurate assessment of cost.

We therefore make no allowance, at this stage, for a no-break generator or provision for cabling.

3.3 Obtrusive Light:

AS 4282 1997 excludes lighting installation for television coverage.

Design Objective and Supporting Criteria:

The design objective was to provide an efficient lighting design for Logan Greyhound Facility in accordance with the client's requirements, whilst acknowledging the specific requirements of the Obtrusive light standards.

We note that although it is important to comply with the specified obtrusive light parameters, AS4282-1997 does mention and **excludes** installations that are designed for colour television broadcasting, due mainly to the high lighting levels that CTV requires.

Calculated Results:

3.4 Summary of SLA Lighting Design:

The following is a summary of the information and calculations provided throughout section 3, "Technical Overview – Lighting Design."

- A quantity of 194 off R2 Maxi floodlights is proposed for the CTV track lighting at Logan Greyhound Facility. These are spread over 9 off columns ranging in height from 20m to 30m.
- The SLA design achieves the client's requirement of a Maintained Average of 1000 lux to the Main Camera.
- The SLA design achieves the client's requirement of a Maintained Average of 800 lux at the track surface.
- The SLA design achieves recommended uniformity ratio's specified Free TV Operational guidelines for colour TV broadcasting.
- The SLA design achieves recommended glare ratios specified by the Free TV Operational guidelines for colour TV broadcasting.
- The SLA design adopts the Sky Racing **Outside Broadcast Technical Digital Production Guide** with respect to vertical illumination towards the Camera steward location.

4. Technical Overview – Control System:

Named Environ System, SLA offers this floodlight control system as an **ENERGY Saving Option**.

Sylvania's Environ System

The Sylvania Environ System incorporating Active Reactor Control runs the Sylvania Metal Halide lamp to provide constant designed illuminance throughout lamp life.

It offers up to 20% energy savings without any additional controls being required.

Each gear tray consists of an Active Reactor electronic controller which monitors the lamp and adjusts lamp current to ensure that the designed illuminance is maintained.

Additional savings can be obtained by utilizing the dimming function of the active reactor whereby levels can be dimmed before races and between races via a CBus control signal to the active reactor.

Features

- _ Lamp characteristics continuously monitored to ensure constant lamp flux
- _ Constant designed illuminance levels throughout lamp life
- _ Constant light output maintained with supply voltage variations of up to 10%
- _ Ballast watts loss reduced by 10%
- _ Reliable magnetic ballasts
- _ Conventional igniters and PF correction capacitors
- _ Electronic lamp control unit housed in IP66 cassette
- _ Lamp life extended by greater than 50%
- _ Complies with: AS/NZS CISPR15:2006(EMC)
- AS/NZS1158.6:2004 (Lighting for roads and public spaces - Luminaires)
- AS/NZS60598.1:2003 (Luminaires - General requirements and tests)

Benefits

- _ Controlled lumen output equating to reduced power consumption
- _ Energy savings of approximately 20%
- _ Reduction in greenhouse gas emissions
- _ Reduced lamp maintenance costs
- _ Reduced downtime
- _ Opportunity to offset power savings the controller in the

It is expected that the Energy Savings could be up to 20% of the total power consumption of the floodlights. **We note that this is 20% power and not 20% light output.**

4.2 Environ Dim Plus:

Although not part of this SLA submission the **Environ Dim Plus** is an extra enhancement to the standard Environ System. Environ Dim Plus is offered for consideration only.

This system utilizes an additional programmable controller which allows for a multilevel system and offers additional energy savings of up to 10% over the standard Environ System. The programmable controller controls all the luminaires and interfaces with user operated switches in addition with its own in built programming to set precise lighting levels and offer additional energy savings.

Aiming & commissioning:

- Aiming and commissioning of the installation shall be in conjunction with Sylvania and allows for 2 men for the duration of the commissioning works.

5. Luminaire and Lamp Literature:

5.1 Luminaire:

The R2 Maxi floodlight is proposed for all track lighting.

Siteco lighting manufacture the R2 Maxi floodlight in Germany and is stocked and distributed by Sylvania Lighting in Australia.

The lamp type used within the R2 Maxi is the Sylvania 2KW double ended, short arc Metal Halide lamp (HSI-TD 2000W/D). This lamp has an initial light output (100 hours) of 200,000 lumens, Correlated Colour Temperature of 5800K and Colour Rendering Index of Ra92.

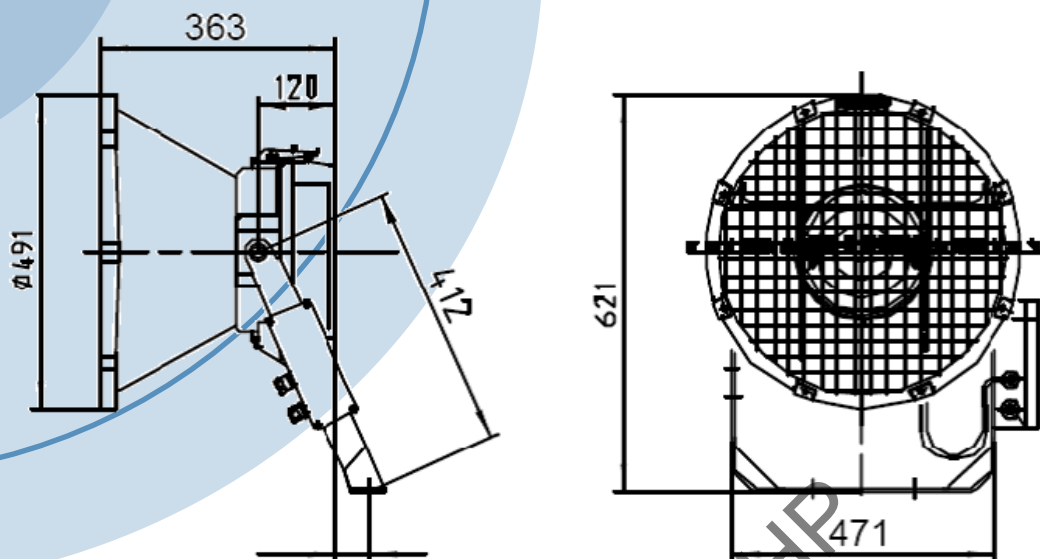


We provide diagrams and data sheets at section 18, "Attachments".

Features:

- 5 off beam distributions from high grade aluminum roto-symmetrical reflector system
- Optional stainless steel hail guard.
- Igniter is integral to floodlight. Control gear is mounted remote to floodlight (415 volt supply)
- Lamp changed via the rear without effecting aiming conditions or the need for any tools.
- When rear lamp door is opened for maintenance power supply is automatically disconnected.
- Sealed to an International Protection Rating of IP65.
- Floodlight Weight is 12 kg
- Sail Area = 0.20 m² (Glass vertical)

Dimensions:



Normal Ignition: 12 kg (including hail-guard)



R2 Maxi shown with hail-guard attached

Material:

- Die cast aluminium housing.
- Reflector - high purity aluminium
- Body Fixings are stainless steel.
- The front glass is chemically toughened, resistant to temperature fluctuations and complete with supportive mesh.
- The floodlight mounting bracket (trunion arm) made from galvanized steel.

5.2 Lamp:

The lamp type used within the R2 Maxi is the Sylvania 2KW double ended, short arc Metal Halide lamp (HSI-TD 2000W/D).



This lamp has an initial light output (100 hours) of 200,000 lumens, Correlated Colour Temperature of 5800K and Colour Rendering Index of Ra92.

The high colour rendering index of greater than Ra 90 makes it ideally suited to high definition colour TV broadcasting applications.

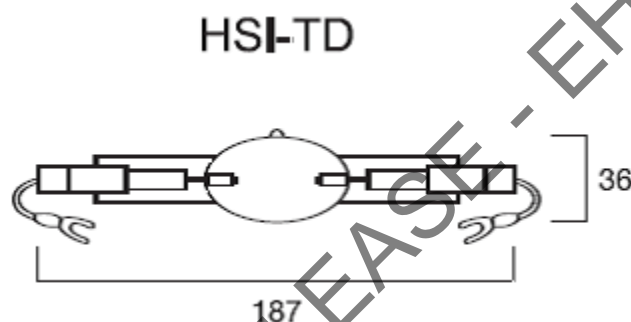
The high colour rendering properties with values greater than 90 ensure better quality images are recorded than lamps that have lower colour rendering properties. The image below compares Ra 90 images with Ra 70 images.



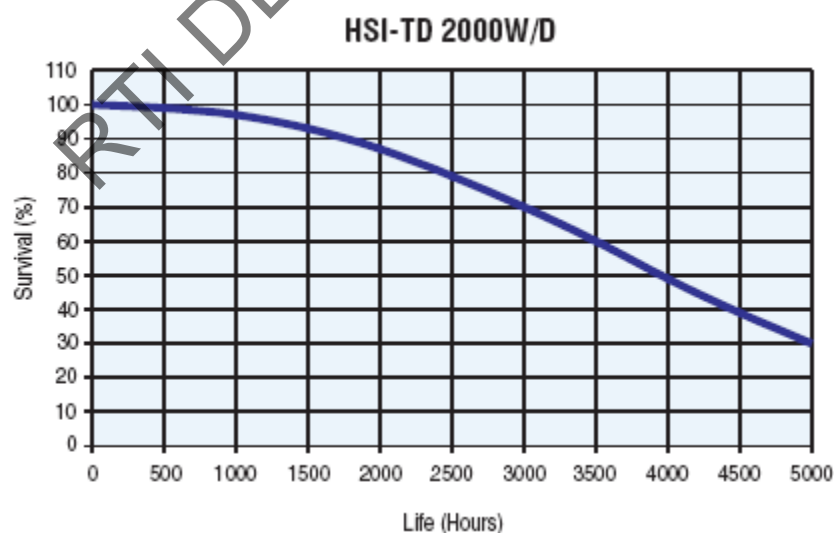
Technical Data:

- Manufacturer's Name = Sylvania Lighting
- Sylvania Catalogue (Part Number) = HIS-TD 2000 W/D
- Operating Voltage = 415 Volts
- Lamp Voltage = 205 Volts
- Lamp Current = 11.3 Amps
- Luminous Flux = 200,000 lumens (100 hours)
- Colour Rendering Index = Ra92 (Group 1A)
- Correlated Colour Temperature = 5600K
- Average Rated life = 4000 Hours (50% failures)

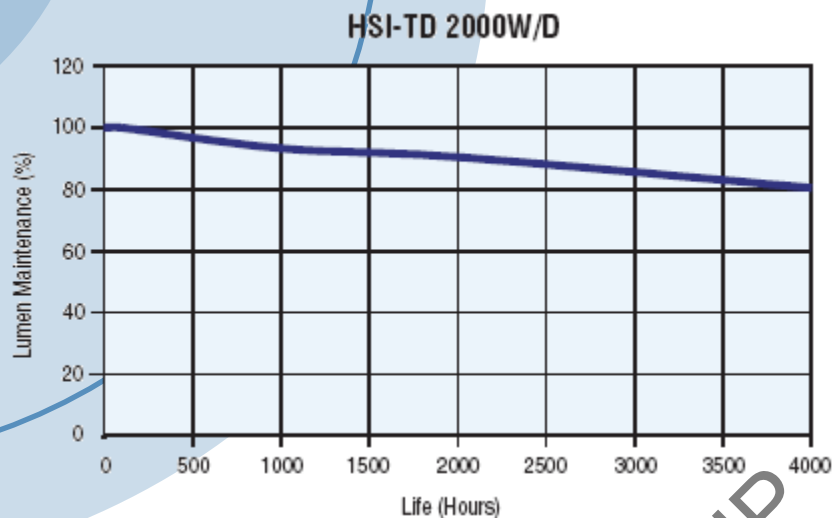
Dimensions:



Lamp Survival Curve:



Lamp Output Depreciation Curve:



6. Australian Product Content:

Wherever possible, SLA will support local and national industry.

We note, that all products could be sourced outside Australia, however, we have endeavored to support local product content wherever we can.

We summarise local and overseas content as follows;

- **High Mast Floodlights** – R2 Maxi body cast in Germany. R2 Maxi is stocked and assembled at the SLA Gosford facility.
- **Dimming Control Gear** – Manufactured and assembled within Australia.
- **Lamps** – Manufactured by Sylvania International, United States. Lamps are stocked locally at the Gosford manufacturing plant.
- **Columns** – Manufactured and assembled within Australia

Nationally in Australia, SLA is supported by a lighting product design and a manufacturing facility in Gosford, NSW, with office and warehouse facilities situated in each state of Australia and New Zealand.

7. Servicing of Contract:

For the purpose of contractual correspondence and administration SLA Provide:

Kaushal Kapadia

Sylvania Lighting Australasia
Sylvania Way
Gosford
NSW 2250

Telephone

02 4328 0600

Facsimile

02 4328 2605

Mobile

49-Sch4 - Mobile phone

E-mail

kaushal@sla.net.au

For the purpose of lighting design enquiries, placement of orders and servicing of contract SLA Provide:

John Adams

National Projects Manager
Sylvania Lighting Australasia
25 Donkin St
West End
Qld 4101 Australia

Mobile

49-Sch4 - Mobile phone

Facsimile

07 3846 3689

E-mail

johnadams@sla.net.au

8. Warranty:

SLA agrees to free replace to point of delivery, goods as supplied against this specification which have failed in excess of nominated performance due to faulty components or workmanship. These warranties for floodlight, lamp and control gear are based on yearly hours of usage specified by the client at tender brief.

Floodlights and Control Gear:

Floodlights and control gear are warranted for a period of ten(10) years, from date of supply, against faulty components or defects due to workmanship.

Lamps:

Lamps supplied under this contract are warranted for 12 months. This is increased too, 24 to 30 months when the lamps are run with the Sylvania Environ System.

For the provision of lamp warranty and in an attempt to measure true lamp life, not subject to over voltage, excessive or inappropriate usage and a suitable duty cycle, SLA may request proof of hourly lamp usage and applicable voltage applied in the event of an uncharacteristic lamp failure.

9. Delivery:

This offer is made on the basis of a mutually agreed supply program for supply of luminaires and columns.

Sylvania confirms it maintains a stock holding for the floodlights offered in this bid, however, due to the large quantities required, it is highly likely that the consumption of this stock will be exhausted. Therefore, SLA offers a lead time of the following:

Luminaires:

- 12-16 weeks from receipt of order (and design approval if applicable)

Columns:

- 12-14 weeks from receipt of order (and design approval if applicable).

Column Foundation Cages:

- 3-4 weeks from receipt of order (and design approval if applicable).

10. Offer Pricing:

Please refer to the attached quotation

11. Project References:

Harness Racing projects completed within Australia using the R2 Maxi floodlight include;

- Melton Harness Racing Club - Victoria

Year 2008 (To be aimed and commissioned early 2009)

Quantity - 283

Sports – Harness Racing

Recent projects completed within NSW using the R2 Maxi floodlight include;

- Sydney Cricket Ground

Year 2008

Quantity - 672

Sports – Cricket and AFL

- Sydney University – Oval # 1

Year 2008

Quantity - 84

Sports – Cricket and AFL

- Cook Park – Mt Pritchard

Year 2008

Quantity - 28

Sports – Soccer

Projects completed worldwide by Siteco, using R2 Maxi, are referenced in the following pages.

12. Quality Assurance and Insurance Certificates:



JARDINE LLOYD THOMPSON

10 July 2008

To Whom It May Concern

Jardine Lloyd Thompson Pty Ltd
ABN 69 009 098 864
3rd Floor, 70 Hindmarsh Square
Adelaide SA 5000
GPO Box 1693
Adelaide SA 5001
DX 186 Adelaide
<http://www.jlta.com.au>
Telephone (08) 8418 0288
Facsimile (08) 8223 6903
Direct Dial (08) 8418 0221
Email yammi@jlta.com.au

Professional Indemnity Certificate of Currency

(JLT Ref 025517)

Insurance Class	Professional Indemnity
Insured Name	Sylvania Australasia Pty Ltd
Policy Expiry Date	30 June 2009
Interest	Civil liability arising out of a breach of professional duty in connection with the specified business giving rise to a claim made and notified to the insurer during the period of insurance
Limit of Liability	\$5,000,000 each and every claim and in the aggregate during the period of insurance
Deductible	\$25,000 each and every claim (inclusive of costs and expenses)
Insurer	Vero Insurance Limited
Policy Number	LPP010458331
Special Provisions	As per policy

This certificate of currency provides a summary of the policy cover and is current on the date of issue. It is not intended to amend, extend, replace or override the policy terms and conditions contained in the actual policy document.

This certificate of currency is issued as a matter of information only and confers no rights upon the certificate holder. We accept no responsibility whatsoever for any inadvertent or negligent act, error or omission on our part in preparing these statements or in transmitting this certificate by email or for any loss, damage or expense thereby occasioned to any recipient of this letter.

MICHAEL YAM
Account Broker

Cert of Currency PI_S Lighting_08.docx



JARDINE LLOYD THOMPSON

10 July 2008

TO WHOM IT MAY CONCERN

Jardine Lloyd Thompson Pty Ltd
ABN 69 009 098 864
3rd Floor, 70 Hindmarsh Square
Adelaide SA 5000
GPO Box 1693
Adelaide SA 5001
DX 186 Adelaide
<http://www.jlta.com.au>
Telephone (08) 8418 0288
Facsimile (08) 8223 6903
Direct Dial (08) 8418 0221
Email yammi@jlta.com.au

Certificate Of Currency

(JLT Ref. 011244)

POLICY	1. Combined Public/Products Liability Insurance 2. Umbrella Liability Insurance
INSURED	Gerard Lighting Holdings Pty Ltd Group Including Sylvania Australasia Pty Ltd and all subsidiary and controlled companies now existing or hereafter formed or acquired.
INSURED BUSINESS	Principally Design, Manufacture and Distribution of luminaries, lighting products, architectural, industrial and commercial lighting systems and accessories, strip heaters, commercial and industrial lamps, lighting and injection moulding products, Contract moulding, metal shop, paint line and die cast work, Boat and Helicopter Charterers, including property occupiers and any other occupations incidental thereto past or present
INTEREST INSURED	Legal liability to third parties for personal injury and/or property damage caused by an occurrence arising out of or in connection with the Business of the Insured.
SITUATIONS and/or PREMISES INSURED	World wide.
LIMIT OF LIABILITY	<u>General Public/Products Liability Insurance</u> \$10 million any one originating cause and in the aggregate in respect of Products Liability Property in the care, custody and control - \$250,000 any one occurrence and in the aggregate any one period of insurance <u>Umbrella Liability Insurance</u> \$20 million any one occurrence in excess of the amount recoverable under the underlying insurances and in the aggregate in respect of Products Liability. Combined Limit provided by these two policies - \$30 million
DEDUCTIBLE	\$10,000 all claims
INSURER / POLICY NO.	Allianz Australia Insurance Limited Public/Products Liability Policy No. 95-0955866-LCP Umbrella Liability Insurance Policy No.: To be advised

Certificate of Currency



EXPIRY DATE 30 June 2009

SPECIAL PROVISIONS As per Policy

This certificate of currency provides a summary of the policy cover and is current on the date of issue. It is not intended to amend, extend, replace or override the policy terms and conditions contained in the actual policy document.

This certificate of currency is issued as a matter of information only and confers no rights upon the certificate holder. We accept no responsibility whatsoever for any inadvertent or negligent act, error or omission on our part in preparing these statements or in transmitting this certificate by email or for any loss, damage or expense thereby occasioned to any recipient of this letter.

MICHAEL YAM
Account Broker



CERTIFIED QUALITY
MANAGEMENT SYSTEM

ISO 9001

Accreditation number: 0122070255



CERTIFIED
ENVIRONMENTAL
MANAGEMENT SYSTEM

ISO 14001

Accreditation number: 010101005

Sylvania Lighting Australasia Pty Ltd Lisarow NSW

operates a Management System
that complies with the requirements of

AS / NZS ISO 9001:2000

AS/NZS ISO 14001:2004

As detailed in the accompanying Scope of Certification.

49-Sch4 - Signature

on behalf of the Board of Directors

Certification Number: 6005
Certificate Number: 6005-06
Issue Date: 6 June 2006



This Certificate remains the property of NCS International Pty Limited ACN 070 609 211
A wholly owned subsidiary of The National Association of Testing Authorities, Australia ACN 004 379 748
Accreditation by the Joint Accreditation System of Australia and New Zealand (www.jas-anz.com.au/register)

SCOPE OF CERTIFICATION

Certification Number: 6005

Sylvania Lighting Australasia Pty Ltd

Sylvania Way
LISAROW NSW 2250

Phone: (02) 4328 0600

Fax: (02) 4328 2605

Certification Standard:

AS/NZS ISO 9001:2000
AS/NZS ISO 14001:2004

Certification Date: 22 April 1991
Certification Date: 26 August 1996

Capability Statement:

Design, manufacture and distribution of lamps, luminaires and associated lighting equipment to service both interior and exterior lighting requirements.

Issue Date: 6 June 2006
Valid Until: 30 April 2009
Page 1 of 1

49-Sch4 - Signature

on behalf of the
Board of Directors

This Scope of Certification remains the property of
NCS International Pty Limited ACN 078 650 211
A wholly owned subsidiary of The National Association of Testing Authorities, Australia ACN 004 378 718

ACCREDITED LABORATORY



National Association of Testing Authorities, Australia
(ABN 59 004 379 748)

has accredited

**Sylvania Lighting Australasia
SLA Lighting Applications Laboratory**

following demonstration of its technical competence
to operate in accordance with

ISO/IEC 17025 (1999)

which includes the management requirements of ISO 9002:1994.

This facility is accredited in the field of

Optics and Radiometry

for the tests, calibrations and measurements shown on
the *Scope of Accreditation* issued by NATA.

The COMMON SEAL of the NATIONAL ASSOCIATION
OF TESTING AUTHORITIES, AUSTRALIA
was affixed hereto by authority of the
Board of the Association in the presence of



49-Sch4 - Signature

A J RUSSELL
CHIEF EXECUTIVE

Date of accreditation: 11 January 1994
Accreditation number: 4616

NATA is Australia's government-endorsed laboratory accreditor, and a leader in accreditation internationally.
NATA is a signatory to the international mutual recognition agreements of the International Laboratory
Accreditation Cooperation (ILAC) and the Asia Pacific Laboratory Accreditation Cooperation (APLAC).





ACCREDITATION NO: 4616

Sylvania Lighting Australasia

SLA Lighting Applications Laboratory
Sylvania Way
LISAROW NSW 2250

CONTACT: Mr D Ford

PHONE: (02) 4328 0678 FAX: (02) 4328 2605 MOBILE: 0409 661877

EMAIL: lab@sla.net.au

WEB SITE: www.sla.net.au

FACILITIES: Normally not available for public testing

This laboratory complies with the requirements of ISO/IEC 17025 (1999)

4.31 Distribution of luminous intensity

.01 Road lighting luminaires

Using the relative method with light-emitting dimensions not exceeding 660 mm and a test distance not less than 15 x the maximum light-emitting dimension with least uncertainties of measurement of -

0.4° in angle

4% in relative luminous intensity

2.5% in light output ratio

.02 Interior lighting luminaires

Using the relative method with a test distance not less than 15 x the maximum light-emitting dimension with least uncertainties of measurement of -

0.4° in angle

4% in relative luminous intensity

2.5% in light output ratio

.03 Flood lighting luminaires

Tests on luminaires with half peak angle exceeding 15°

Using the relative method

with least uncertainties of measurement of -

0.4° in angle

4% in relative luminous intensity

2.5% in light output ratio

4.92 Other tests

.04 Power a.c. and d.c.

Voltage, current and active power

by the methods of -

CIE Publication No. 43, 121, AS 1680.3, AS 3771, AS/NZS 1158.1.1, AS/NZS 1158.3.1, AS 1158.4

Accreditation No: 4616

(Scope Last Changed 09/08/04)

13. Attachments – Lighting Design Technical Drawings

13.1 Calculation Printout – Column Numbering and Reference Drawing

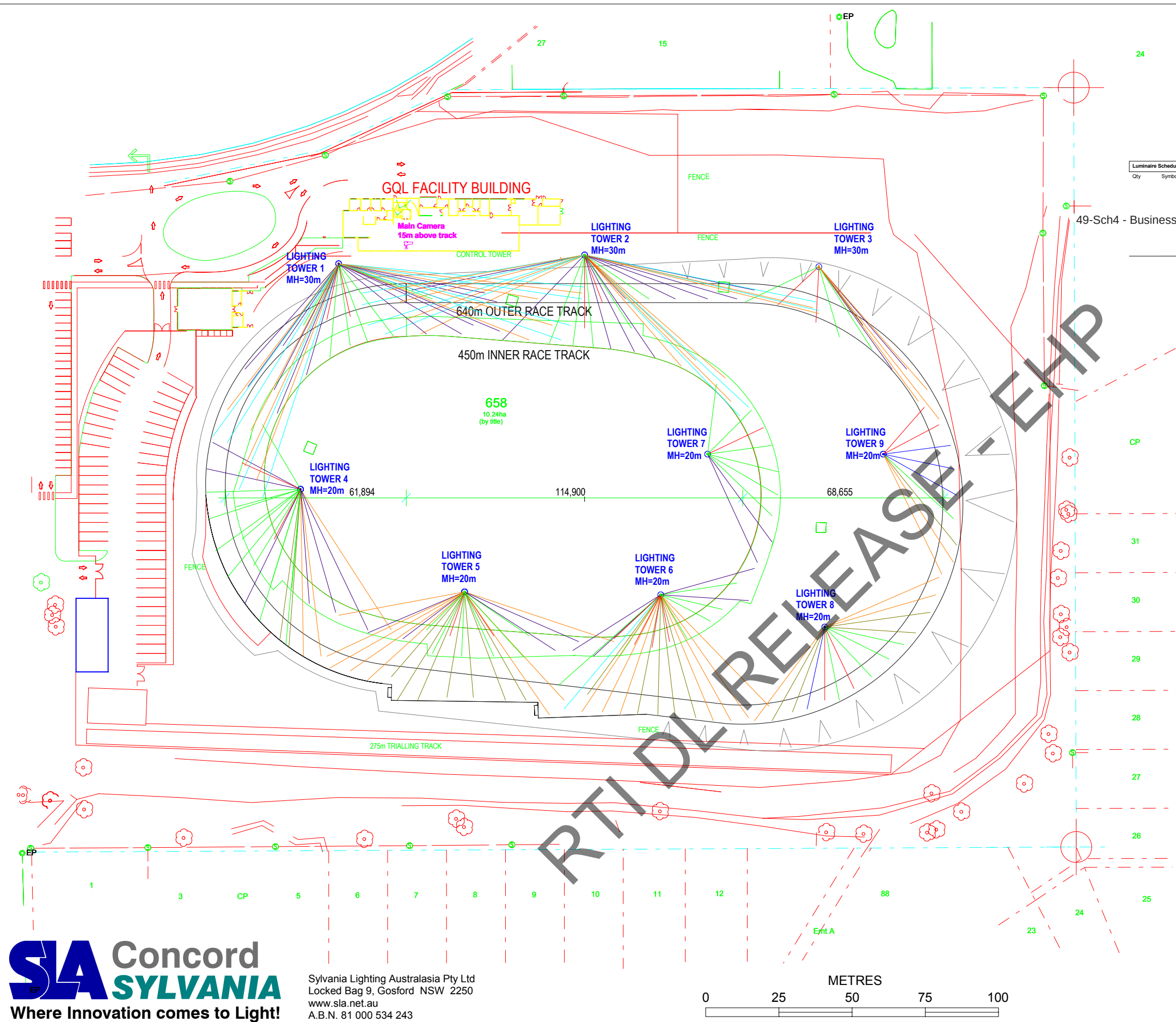
13.2 Calculation Printout – Track Horizontal Illumination

13.3 Calculation Printout – Track Vertical Illumination towards Main

Camera

13.4 Quotation Estimate

RTI DL RELEASE - EHP



Luminaire Schedule					
Qty	Symbol	Label	Description	Lumens	LLF
		R2 Maxi HSI-TD T1+GS	R2 Maxi 2kW HSI-TD Beam Type 1 + Glare Shield	200000	0.800
		R2 Maxi HSI-TD T2+GS	R2 Maxi 2kW HSI-TD Beam Type 2 + Glare Shield	200000	0.800
		R2 Maxi HSI-TD T3+GS	R2 Maxi 2kW HSI-TD Beam Type 3 + Glare Shield	200000	0.800
		R2 Maxi HSI-TD T4+GS	R2 Maxi 2kW HSI-TD Beam Type 4 + Glare Shield	200000	0.800
		R2 Maxi HSI-TD T5	R2 Maxi 2kW HSI-TD Beam Type 5	200000	0.800

Tower Locations & Luminaire Aiming

Luminaire Details

Total Quantity
194 x SLA R2 Maxi 2000W floods
(85 with glare shield)

- > Lighting Tower 1 - 37 floods
- > Lighting Tower 2 - 35 floods
- > Lighting Tower 3 - 11 floods
- > Lighting Tower 4 - 25 floods
- > Lighting Tower 5 - 27 floods
- > Lighting Tower 6 - 27 floods
- > Lighting Tower 7 - 9 floods
- > Lighting Tower 8 - 14 floods
- > Lighting Tower 9 - 9 floods

Design Notes

For further calculations and/or for installation aiming details please consult your SLA representative.

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

M.H.=30m & 20m indicates height above the playing surface to the top crossarm.

There have been no obstructions such as trees, fences or buildings included in this lighting calculation.



Concord

SYLVANIA

Where Innovation comes to Light!

Sylvania Lighting Australasia Pty Ltd
Locked Bag 9, Gosford NSW 2250
www.sla.net.au
A.B.N. 81 000 534 243

DATE	18/02/2010
DESIGNER	J.H.
JOB No.	Q0785

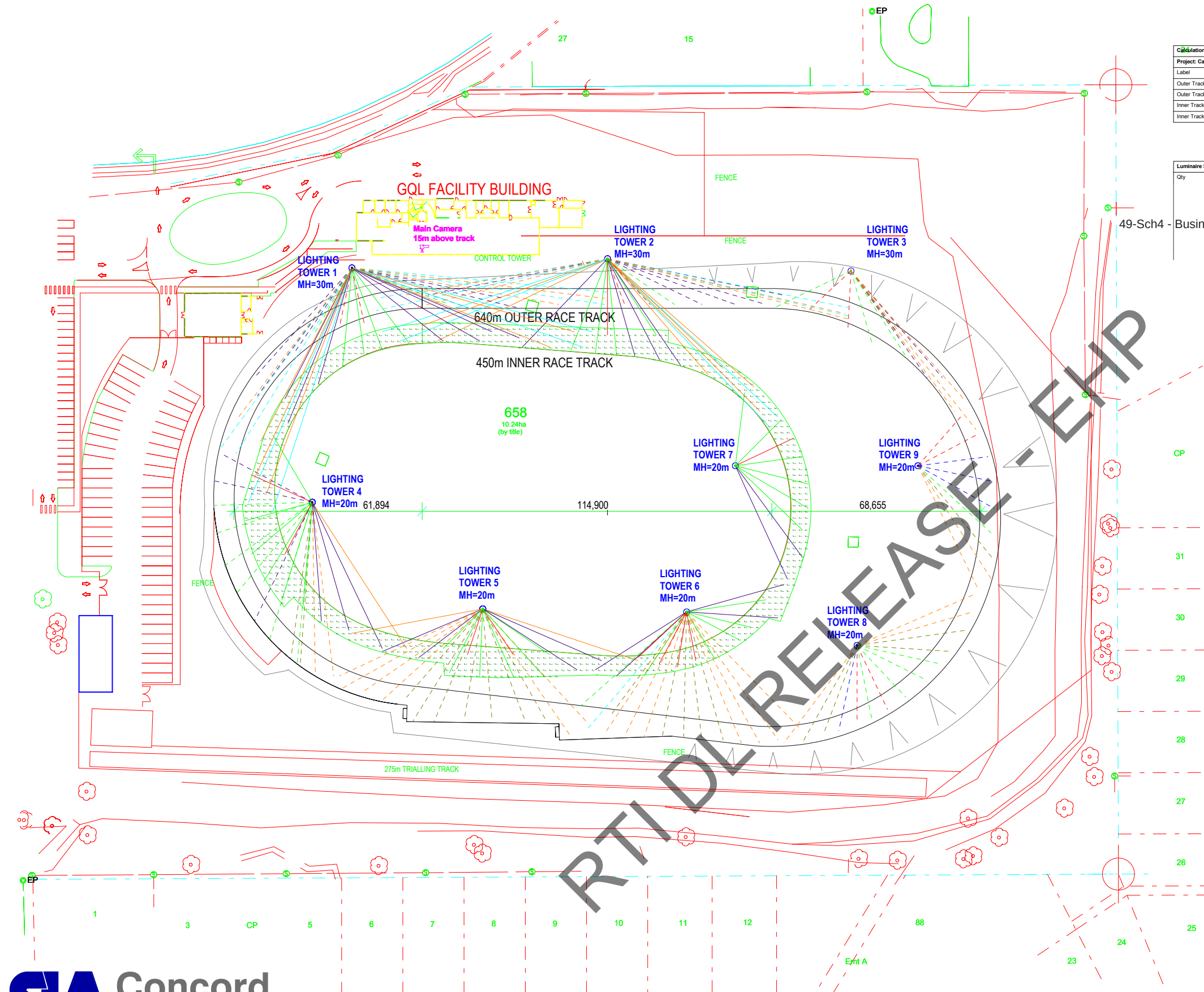
Lighting Engineering and Design
PROJECT

Logan Greyhound Facility, QLD
Floodlighting Proposal for Colour Television
1000 lux Ev average to Main Camera

Q0785 9 Pole - Tower Locations.AGI

This printout is provided as a user service. Results, shown herein, are subject to practical tolerances associated with photometric measurement, site dimensional variations, aiming accuracy and control gear / lamp characteristics. Results, therefore, should only be used as a design guide / evaluation aid. Individual point values are not guaranteed. Subject to dimensional accuracy, average values will be within +/- 10 percent. For contractual project situations, refer to details in SLA commercial offer/quotation. Renderings are generated using diffuse (matt) surfaces and user defined reflectances and colours. These will influence the visual appearance of the illuminated surfaces. Therefore any rendering shown can only be taken as an indication of how the area might visually appear.





Calculation Summary											
Project: Calculation Grids											
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max	PtSpLr	PtSpTb	Meter Type	
Outer Track Ev Camera at 1500mm	Illuminance	Lux	229.73	746	15.6	0.07	0.02	2	2	Variable	
Outer Track Eh	Illuminance	Lux	159.02	582	3.6	0.02	0.01	2	2	Horizontal	
Inner Track Ev Camera at 1500mm	Illuminance	Lux	1100	1390	792	0.72	0.57	2	2	Variable	
Inner Track Eh	Illuminance	Lux	838.64	1272	555	0.66	0.44	2	2	Horizontal	

Luminaire Schedule					
Qty	Symbol	Label	Description	Lumens	LLF
		R2 Maxi HSI-TD T1+GS	R2 Maxi 2kW HSI-TD Beam Type 1 + Glare Shield	200000	0.800
		R2 Maxi HSI-TD T2+GS	R2 Maxi 2kW HSI-TD Beam Type 2 + Glare Shield	200000	0.800
		R2 Maxi HSI-TD T3+GS	R2 Maxi 2kW HSI-TD Beam Type 3 + Glare Shield	200000	0.800
		R2 Maxi HSI-TD T4+GS	R2 Maxi 2kW HSI-TD Beam Type 4 + Glare Shield	200000	0.800
		R2 Maxi HSI-TD T5	R2 Maxi 2kW HSI-TD Beam Type 5	200000	0.800

**Illuminance Switching
-> Inner Track - Ev to Main Camera**

Luminaire Details

Total Quantity
194 x SLA R2 Maxi 2000W floods
(85 with glare shield)

- > Lighting Tower 1 - 37 floods
- > Lighting Tower 2 - 35 floods
- > Lighting Tower 3 - 11 floods
- > Lighting Tower 4 - 25 floods
- > Lighting Tower 5 - 27 floods
- > Lighting Tower 6 - 27 floods
- > Lighting Tower 7 - 9 floods
- > Lighting Tower 8 - 14 floods
- > Lighting Tower 9 - 9 floods

Design Notes

For further calculations and/or for installation aiming details please consult your SLA representative.

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

M.H.=30m & 20m indicates height above the playing surface to the top crossarm.

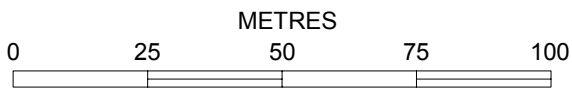
There have been no obstructions such as trees, fences or buildings included in this lighting calculation.



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DATE
18/02/2010

DESIGNER
J.H.

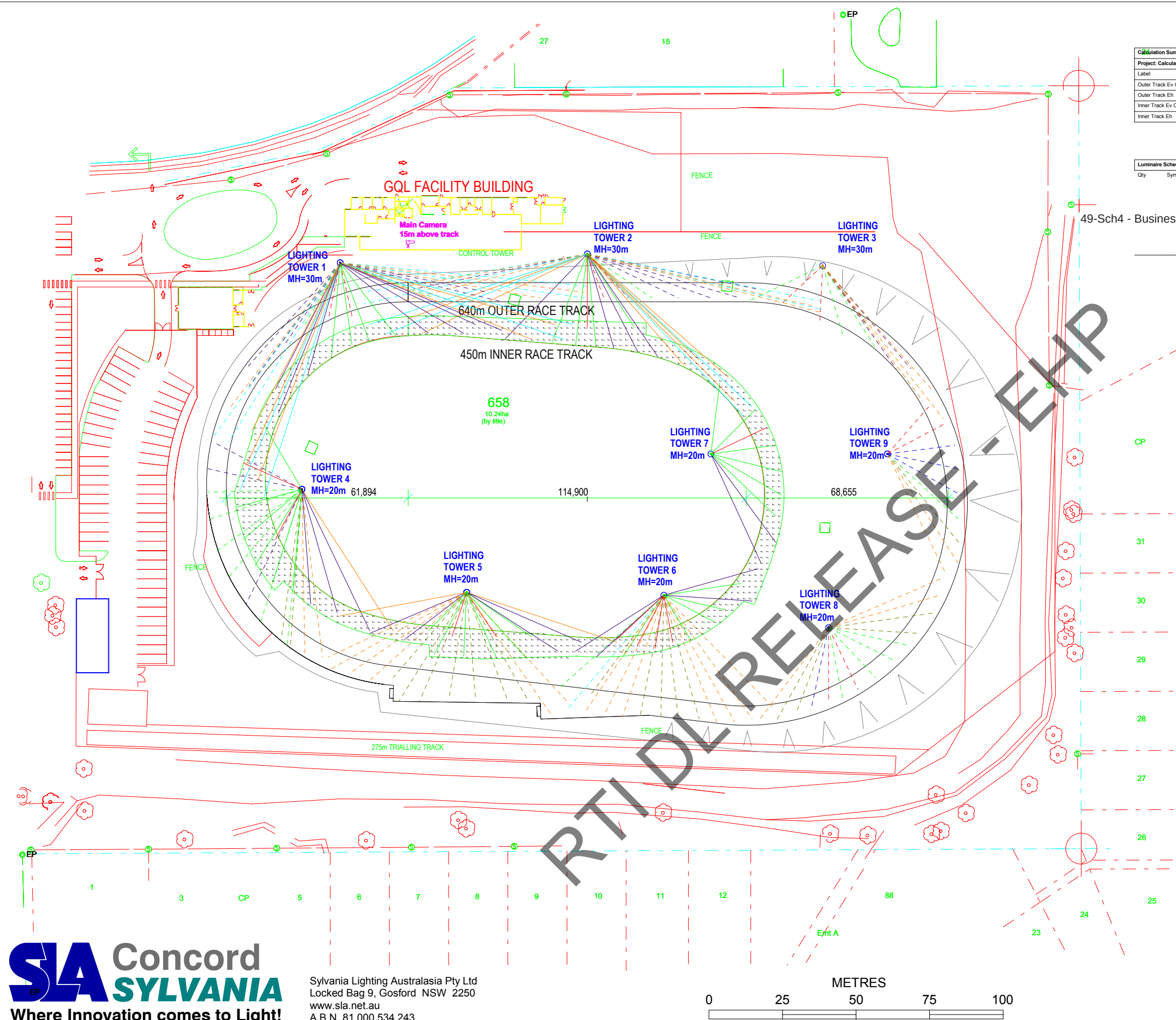
JOB No.
Q0785

Lighting Engineering and Design PROJECT

Logan Greyhound Facility, QLD
Floodlighting Proposal for Colour Television
1000 lux Ev average to Main Camera

Q0785 9 Pole Inner Track Ev.AGI

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Calculation Summary										
Project: Calculation Grids										
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max	PtSpCLr	PtSpTb	Meter Type
Outer Track Ev Camera at 1500mm	Illuminance	Lux	229.73	746	15.6	0.07	0.02	2	2	Variable
Outer Track Eh	Illuminance	Lux	159.02	582	3.6	0.02	0.01	2	2	Horizontal
Inner Track Ev Camera at 1500mm	Illuminance	Lux	1100	1390	792	0.72	0.57	2	2	Variable
Inner Track Eh	Illuminance	Lux	838.64	1272	555	0.66	0.44	2	2	Horizontal

Luminaire Schedule					
Qty	Symbol	Label	Description	Lumens	LLF
1	[Symbol]	R2 Maxi HSI-TD T1+GS	R2 Maxi 2kW HSI-TD Beam Type 1 + Glare Shield	200000	0.800
1	[Symbol]	R2 Maxi HSI-TD T2+GS	R2 Maxi 2kW HSI-TD Beam Type 2 + Glare Shield	200000	0.800
1	[Symbol]	R2 Maxi HSI-TD T3+GS	R2 Maxi 2kW HSI-TD Beam Type 3 + Glare Shield	200000	0.800
1	[Symbol]	R2 Maxi HSI-TD T4+GS	R2 Maxi 2kW HSI-TD Beam Type 4 + Glare Shield	200000	0.800
1	[Symbol]	R2 Maxi HSI-TD T5	R2 Maxi 2kW HSI-TD Beam Type 5	200000	0.800

**Illuminance Switching
-> Inner Track - Ehorizontal**

Luminaire Details

Total Quantity
194 x SLA R2 Maxi 2000W floods
(85 with glare shield)

- > Lighting Tower 1 - 37 floods
- > Lighting Tower 2 - 35 floods
- > Lighting Tower 3 - 11 floods
- > Lighting Tower 4 - 25 floods
- > Lighting Tower 5 - 27 floods
- > Lighting Tower 6 - 27 floods
- > Lighting Tower 7 - 9 floods
- > Lighting Tower 8 - 14 floods
- > Lighting Tower 9 - 9 floods

Design Notes

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M.H.=30m & 20m indicates height above the playing surface to the top crossarm.

There have been no obstructions such as trees, fences or buildings included in this lighting calculation.



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DATE	18/02/2010
DESIGNER	J.H.
JOB No.	Q0785

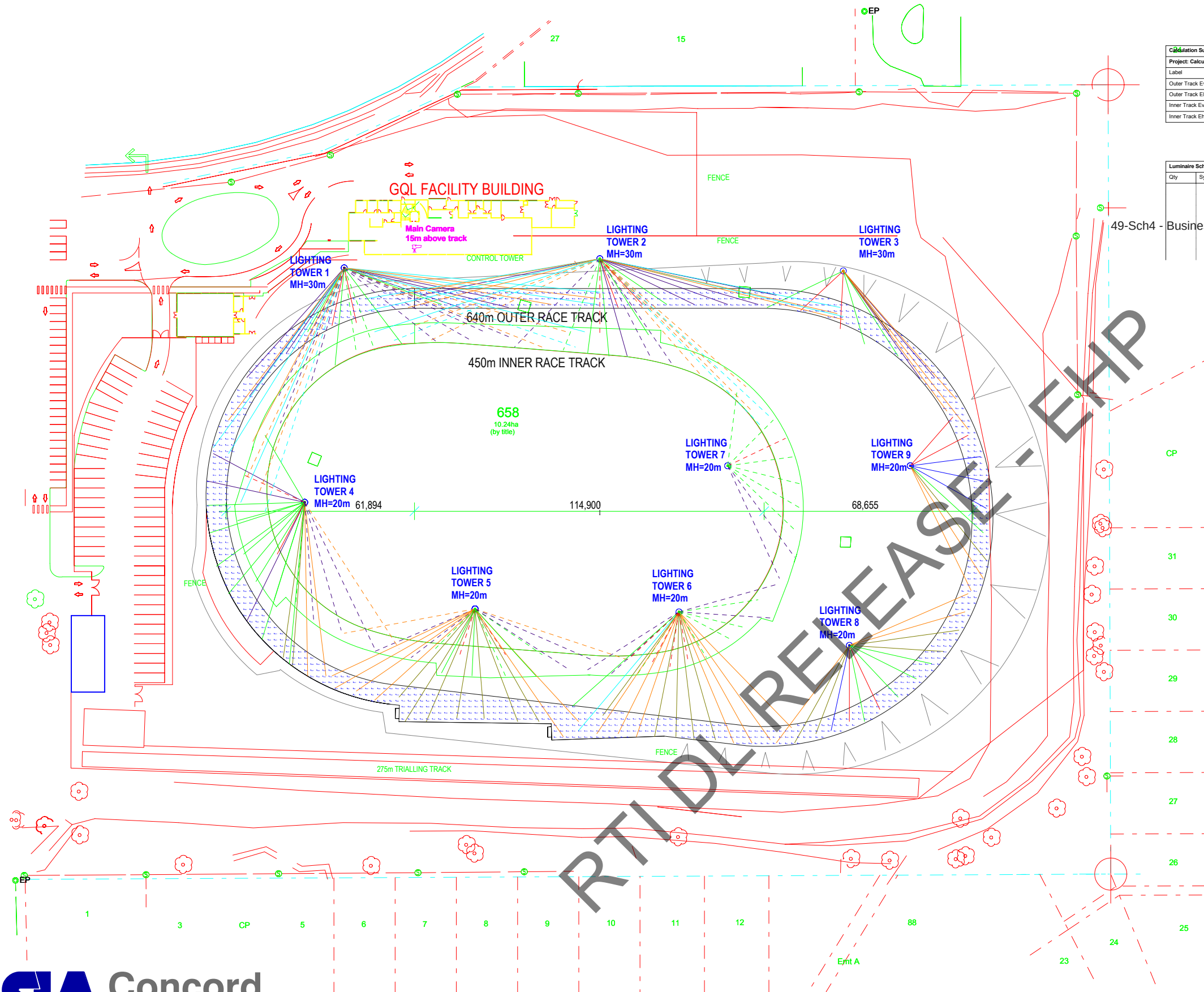
Lighting Engineering and Design
PROJECT

Logan Greyhound Facility, QLD
Floodlighting Proposal for Colour Television
1000 lux Ev average to Main Camera

Q0785 9 Pole Inner Track Eh.AGI

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Calculation Summary										
Project: Calculation Grids										
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max	PISpclr	PISpctb	Meter Type
Outer Track Ev Camera at 1500mm	Illuminance	Lux	1108	1701	743	0.67	0.44	2	2	Variable
Outer Track Eh	Illuminance	Lux	717.32	992	508	0.71	0.51	2	2	Horizontal
Inner Track Ev Camera at 1500mm	Illuminance	Lux	528.02	1815	6.2	0.01	N.A.	2	2	Variable
Inner Track Eh	Illuminance	Lux	397.08	1193	2.5	0.01	N.A.	2	2	Horizontal

Luminaire Schedule						
Qty	Symbol	Label	Description	Lumens	LLF	Filename
		R2 Maxi HSI-TD T1+GS	R2 Maxi 2kW HSI-TD Beam Type 1 + Glare Shield	200000	0.800	R2 Maxi HSI-TD T1+GS.ies
		R2 Maxi HSI-TD T2+GS	R2 Maxi 2kW HSI-TD Beam Type 2 + Glare Shield	200000	0.800	R2 Maxi HSI-TD T2+GS.ies
		R2 Maxi HSI-TD T3+GS	R2 Maxi 2kW HSI-TD Beam Type 3 + Glare Shield	200000	0.800	R2 Maxi HSI-TD T3+GS.ies
		R2 Maxi HSI-TD T4+GS	R2 Maxi 2kW HSI-TD Beam Type 4 + Glare Shield	200000	0.800	R2 Maxi HSI-TD T4+GS.ies
		R2 Maxi HSI-TD T3	R2 Maxi 2kW HSI-TD Beam Type 3	200000	0.800	R2 Maxi HSI-TD T3.ies
		R2 Maxi HSI-TD T4	R2 Maxi 2kW HSI-TD Beam Type 4	200000	0.800	R2 Maxi HSI-TD T4.ies
		R2 Maxi HSI-TD T5	R2 Maxi 2kW HSI-TD Beam Type 5	200000	0.800	R2 Maxi HSI-TD T5.ies

**Illuminance Switching
-> Outer Track - Evertical to Camera**

Luminaire Details

Total Quantity
194 x SLA R2 Maxi 2000W floods
(85 with glare shield)

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Design Notes

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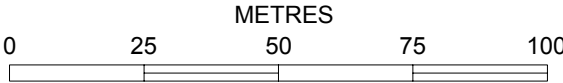
DATE
18/02/2010
DESIGNER
J.H.
JOB No.
Q0785

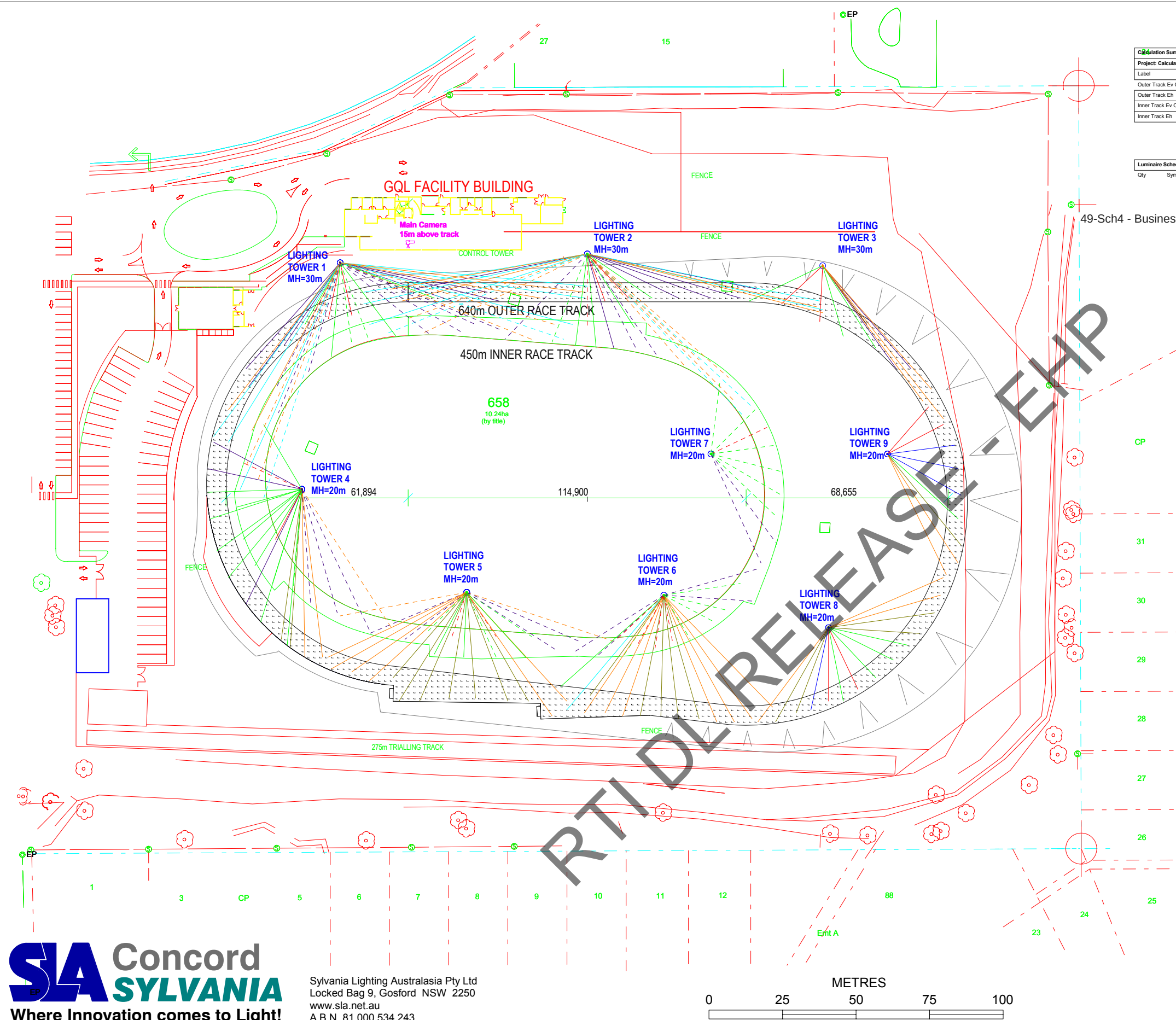
Lighting Engineering and Design PROJECT

Logan Greyhound Facility, QLD
Floodlighting Proposal for Colour Television
1000 lux Ev average to Main Camera

Q0785 9 Pole Outer Track Ev.AGI

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Luminaire Schedule						Lumens		LLF	Filename	
Qty	Symbol	Label	Description							
		R2 Maxi HSI-TD T1+GS	R2 Maxi 2kW HSI-TD Beam Type 1 + Glare Shield			200000	0.800		R2 Maxi HSI-TD T1+GS.ies	
		R2 Maxi HSI-TD T2+GS	R2 Maxi 2kW HSI-TD Beam Type 2 + Glare Shield			200000	0.800		R2 Maxi HSI-TD T2+GS.ies	
		R2 Maxi HSI-TD T3+GS	R2 Maxi 2kW HSI-TD Beam Type 3 + Glare Shield			200000	0.800		R2 Maxi HSI-TD T3+GS.ies	
		R2 Maxi HSI-TD T4+GS	R2 Maxi 2kW HSI-TD Beam Type 4 + Glare Shield			200000	0.800		R2 Maxi HSI-TD T4+GS.ies	
		R2 Maxi HSI-TD T3	R2 Maxi 2kW HSI-TD Beam Type 3			200000	0.800		R2 Maxi HSI-TD T3.ies	
		R2 Maxi HSI-TD T4	R2 Maxi 2kW HSI-TD Beam Type 4			200000	0.800		R2 Maxi HSI-TD T4.ies	
		R2 Maxi HSI-TD T5	R2 Maxi 2kW HSI-TD Beam Type 5			200000	0.800		R2 Maxi HSI-TD T5.ies	

**Illuminance Switching
-> Outer Track - Ehorizontal**

Luminaire Details

Total Quantity
194 x SLA R2 Maxi 2000W floods
(85 with glare shield)

- > Lighting Tower 1 - 37 floods
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Design Notes

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A.B.N. 81 000 534 243

DATE
18/02/2010

DESIGNER
J.H.

JOB No.
Q0785

**Lighting Engineering and Design
PROJECT**

Logan Greyhound Facility, QLD
Floodlighting Proposal for Colour Television
1000 lux Ev average to Main Camera

Q0785 9 Pole Outer Track Eh.AGI

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Fax 1800 648 641
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For Customer:

Queensland Greyhound

QUOTATION

PAGE 1 of 3

Quoted By: Kristen Willis

Quote No.: 4002052 Ver: 0 Rev: 1	Project: Logan Greyhound Track	Region: QLD
Contact: Darren Beavis	Phone: 3262 7800	Fax: 3262 4437
Spec Rep: JOHN ADAMS	Whls Rep: UNALLOCATED	Date: 24/02/10

Type	ITEM No.	DESCRIPTION	QTY	UNIT PRICE	EXT PRICE	GST	Total
P1	POLE1						
P2	POLE2						
P3	POLE3						
		49-Sch4 - Business affairs					
P4	POLE4						
P5	POLE5						
TOTAL							

THIS QUOTE IS SUBJECT TO SYLVANIA LIGHTING AUSTRALASIA PTY LTD. TERMS & CONDITIONS AVAILABLE UPON REQUEST.

- (1) All prices are firm for 30 days, for delivery and invoice of equipment within 30 days, subject to product availability.
- (2) Unit prices are exclusive of GST and are subject to availability of stock.
- (3) Prices are subject to change if there is a variation in quantity or specification.
- (4) Unless otherwise stated pole pricing does not include delivery or off-loading at site.
- (5) Once ordered indent and Project items are strictly non-returnable and/or cancellations will not be accepted.



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For Customer:

Queensland Greyhound

QUOTATION

PAGE 2 of 3

Quoted By: Kristen Willis

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Contact: Darren Beavis	Phone: 3262 7800	Fax: 3262 4437
Spec Rep: JOHN ADAMS	Whls Rep: UNALLOCATED	Date: 24/02/10

Type	ITEM No.	DESCRIPTION	QTY	UNIT PRICE	EXT PRICE	GST	Total
P6	POLE6						
P7	POLE7						
P8	POLE8						
		49-Sch4 - Business affairs					
P9	POLE9						

TOTAL							

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Greyhounds Logan



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For Customer:

Queensland Greyhound

QUOTATION

PAGE 3 of 3

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Contact: Darren Beavis Phone: 3262 7800 Fax: 3262 4437
Spec Rep: JOHN ADAMS Whls Rep: UNALLOCATED Date: 24/02/10

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		49-Sch4 - Business affairs					
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