

Major Services Contract

Council of the City of Sydney
ABN 22 636 550 790

Visual Inspirations Australia Pty Ltd
ABN 27 099 661 515

KEY DETAILS

1	Date	See Execution page
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2	Parties	
	City	
	Name	Council of the City of Sydney ABN 22 636 550 790
	Service Provider	
	Name	Visual Inspirations Australia Pty Ltd ABN 27 099 661 515

BACKGROUND

- A The City wishes to engage the Service Provider, and the Service Provider has agreed to perform the Services, on the terms set out in the Contract.

TERMS

1. In this Formal Instrument of Agreement, terms which are defined in the General Conditions of Contract have the same meanings when used in this Formal Instrument of Agreement.
2. The parties agree that the Contract comprises the following documents:
 - (a) this Formal Instrument of Agreement;
 - (b) the General Conditions of Contract;
 - (c) Schedule 1 (Contract information);
 - (d) Schedule 2 (Fee);
 - (e) Schedule 3 (Specifications);
 - (f) Schedule 4 (Contract Service Area);
 - (g) Schedule 5 (Statutory Declaration); and
 - (h) Schedule 6 (Expert Determination Agreement).
3. The parties agree that they must perform their respective obligations under the Contract.
4. The parties acknowledge and agree that:

- (a) the Contract applies to all Services, whether they are performed before, on or after the Date of the Contract; and



- 5. Each party represents and warrants to the other party that:
 - (a) it has full power to enter into and to comply with its obligations under the Contract;
 - (b) it has taken all necessary action to authorise its entry into and to comply with its obligations under the Contract;
 - (c) it has in full force and effect the authorisations necessary to enter into the Contract and to comply with its obligations under it and to allow it to be enforced; and
 - (d) its obligations under the Contract constitute its binding obligations and are completely and lawfully enforceable against it in accordance with their terms subject to laws generally affecting creditors' rights and to principles of equity.
- 6. If the Contract is signed in counterparts, then each counterpart is deemed an original and together they constitute one document.

EXECUTION

Executed as a deed on

Signed for and on behalf of the **Council of the City of Sydney** ABN 22 636 550 790
by its duly authorised officer in the
presence of:

Signature of witness

Signature of authorised officer

Print name

Print name

Signed by Visual Inspirations Australia
Pty Ltd
ABN 27 099 661 515 in accordance with
section 127(1) of the *Corporations Act*
2001 (Cth):

Signature of director/company secretary

Signature of sole director

Print name

Print name

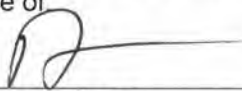
OR
Signed for Visual Inspirations Australia Pty
Ltd

ABN 27 099 661 515 under power of
attorney in the presence of:

EXECUTION

Executed as a deed on

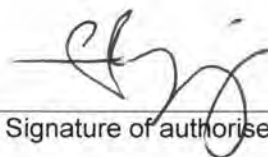
Signed for and on behalf of the **Council of the City of Sydney** ABN 22 636 550 790 by its duly authorised officer in the presence of:



Signature of witness

TRON STEVENS

Print name



Signature of authorised officer

EMMA RICHNEY

Print name

Signed by Visual Inspirations Australia Pty Ltd
ABN 27 099 661 515 in accordance with section 127(1) of the *Corporations Act 2001* (Cth):

Signature of director/company secretary

Print name

Signature of director

Print name

OR

Signed for Visual Inspirations Australia Pty Ltd

ABN 27 099 661 515 under power of attorney in the presence of:

Signature of witness

Signature of attorney

Print name

Print name

Date of power of attorney

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GENERAL CONDITIONS OF CONTRACT

1 Definitions and interpretation

1.1 Definitions

In the Contract, except where the context otherwise requires:

Approved means approved, an approval or selection by the Contract Manager at their sole discretion.

Authorisation means:

- (a) an approval, authorisation, consent, declaration, exemption, permit, licence, notarisation or waiver, however it is described, and including any condition attached to it; and
- (b) in relation to anything that could be prohibited or restricted by law if a Government Agency acts in any way within a specified period, the expiry of that period without that action being taken,

Background Intellectual Property Rights means Intellectual Property Rights in documents or materials provided by a party in connection with the Contract or the Services that is in existence prior to the Date of the Contract or developed or conceived by a party independently of the Contract.

Business Day means a day other than:

- (a) a Saturday, Sunday or a public holiday in New South Wales; or
- (b) 27, 28, 29, 30 or 31 December.

City's Material means all Material provided by or on behalf of the City to the Service Provider for the purposes of the Contract, and all adaptations, enhancements and derivative works of such Material.

City's Policies means all policies and procedures relevant to the provision of the Services, as notified in writing to the Service Provider.

City's Property means any property used or operated by or on behalf of the City and includes any systems, equipment or premises, whether owned, leased, licensed or rented by or on behalf of the City.

Claim includes any claim for an increase in the Fee, or for payment of money (including damages) or for an extension of time:

- (a) under, arising out of or in any way connected with the Contract, including any direction of the Contract Manager;

- (b) arising out of or in any way connected with the Services or either party's conduct before the Date of the Contract; or
- (c) otherwise at law or in equity including:
 - (i) by statute;
 - (ii) in tort for negligence or otherwise, including negligent misrepresentation; or
 - (iii) for restitution;

Contract means the agreement between the City and the Service Provider comprising the documents identified in clause 2 of the Formal Instrument of Agreement.

Contract Service Area means the area within which the Services will be provided as illustrated in Schedule 4 and further described in the Specifications.

Contract Manager means the person named in Item 1 who is appointed by the City to manage and supervise the performance of the Services.

Date of the Contract means the date referred to in the Formal Instrument of Contract or, if undated, the date on which the City executes the Contract.

Defect means one or both of the following:

- (a) any defect, shrinkage, fault or omission in any part of the Services;
- (b) any other aspect of the Services which is not in accordance with the requirements of the Contract.

Developed Material means all systems and Material brought or required to be brought into existence by or on behalf of the Service Provider (excluding Material provided to the Service Provider by the City), product or results produced, concepts developed or work done by the Service Provider in the provision of Services,

Disengagement Period means the period commencing on the date specified in clause 21 and ending on the intended date of termination of the Contract, which will either be:

- (a) the end of the Term; or
- (b) the date specified by the City in a termination notice.

Disengagement Services means the services to be provided by the Service Provider in anticipation of the termination of the Contract, which will include:

- (a) selling, transferring, assigning or relocating the Developed Material (whether finalised or works in progress), and any associated equipment, parts, documents, files, plans and related items;

(b) novating or assigning or securing the novation or assignment of such third party agreements (including software licences) as are specified by the City; and

(c) transferring the Services,

to another services provider or to the City itself.

Dispute means any dispute or difference between the parties arising out of, relating to or in connection with the Contract, including any dispute or difference as to the formation, validity, existence or termination of the Contract.

Environmental Laws means all laws and legislation relating to environmental protection, building and planning matters and includes the following:

(a) the *Protection of the Environmental Operations Act 1997* (NSW);

(b) the *Biosecurity Act 2015* (NSW); and

(c) the *Contaminated Land Management Act 1997* (NSW).

Expiry Date means the date referred to in Item 2.

Fee means the fee as set out in Annexure B as may be adjusted in accordance with the Contract.

Formal Instrument of Agreement means the "Formal Instrument of Agreement" to which the General Conditions of Contract are attached.

Further Term means an extension of the Term under clause 19.2.

General Conditions of Contract means the part of the Contract headed "General Conditions of Contract".

Government Agency means:

(a) a government or government department or other body;

(b) a governmental, semi-governmental or judicial person; or

(c) a person (whether autonomous or not) who is charged with the administration of a law.

GST means the same as in the GST Law.

GST Law means the same as "GST law" in the *A New Tax System (Goods and Services Tax) Act 1999* (Cth).

Information Documents means:

(a) the documents and other information described in Item 3; and

(b) any other information identified by the City, whether before, on or after the Date of the Contract, as being for information only.

Insolvency Event means, in relation to the Service Provider, where:

- (a) it informs the City in writing or its creditors that it is insolvent or is financially unable to proceed with the Contract;
- (b) it is unable to pay its debts as and when they fall due;
- (c) notice is given of a meeting of its creditors with a view to the corporation entering a deed of company arrangement;
- (d) it enters a deed of company arrangement with its creditors;
- (e) a controller or administrator is appointed;
- (f) a winding-up order is made against it;
- (g) it resolves by special resolution that it should be wound up voluntarily; or
- (h) it suffers an event or circumstance analogous to an event or circumstance set out in paragraphs (a) to (g) above.

I&D means installation and dismantle

Intellectual Property Right means:

- (a) all intellectual property rights, including copyright, trade marks, designs, circuit layouts, patents, inventions, discoveries and rights of confidence; and
- (b) all other rights or forms of protection of a similar nature or having similar or equivalent effect to any of them, whether under international convention or otherwise,

that may subsist anywhere in the world, whether current or future or registered (including applications for any of the above) or unregistered (but excluding Moral Rights).

Item means an Item in Schedule 1.

Key Personnel means the persons nominated in Item 4, as may be varied in accordance with clause 4.2(c).

Laws means all applicable laws, regulations, industry codes and standards, including all Environmental Laws, the GST Law, Privacy Laws and WHS Law.

Material means material in any form (whether visible or not), including documents, advertisements (in print, electronic or recorded format), recordings on disc or any other form of storage, reports, products, equipment, information, data, software, software tools and software development methodologies, and includes all releases, updates and amendments to the original material.

Material Obligation means the obligations set out clauses 3, 4.2, 4.3, 5, 6, 11, 15, 17 and 18.

Moral Rights means moral rights as described under Part IX of the *Copyright Act 1968* (Cth), and any analogous rights that exist anywhere in the world.

Operations Manager means the person named in Item 5 of Schedule 1 who is appointed by the Service Provider to manage and supervise the performance of the Services.

Personal Information means all personal information as defined under section 6 of the *Privacy Act 1988* (Cth) and section 4 of the *Privacy and Personal Information Protection Act 1998* (NSW) that is provided or obtained by the Service Provider or its Personnel in connection with the performance of its obligations under the Contract.

Personnel means a party's officers, employees, agents or contractors, and in relation to the Service Provider, includes its Key Personnel and Subcontractors.

Privacy Laws means the *Privacy Act 1988* (Cth), the *Privacy and Personal Information Protection Act 1998* (NSW), the *Spam Act 2003* (Cth), the *Do Not Call Register Act 2006* (Cth) and any other applicable legislation, principles, industry codes and policies relating to the handling of Personal Information.

Quality Management Policy Statement means the **Quality Management Policy Statement** referenced at Attachment 4.

Schedule of Rates means the schedule of rates set out in Schedule 2.

Services means the services described in the Specifications, as may be varied in accordance with clause 12.1.

Service Provider's Material means any Material owned by or licensed to the Service Provider associated or connected with the performance of the Services but does not include the Developed Material.

Specifications means the document referred to in Schedule 3 and the Gobo Specifications.

Subcontractor means a person engaged by the Service Provider in accordance with clause 4.3 to assist in the provision of the Services.

Tax means a tax, levy, duty, charge, deduction or withholding, however it is described, that is imposed by law or by a Government Agency, together with any related interest, penalty, fine or other charge.

Term has the meaning given to that term in clause 19.1.

WHS Law means the *Work Health and Safety Act 2011* (NSW) and the *Work Health and Safety Regulation 2011* (NSW).

WHS Returnable Documents means the work health and safety documentation described in Item 8, including risk assessments and safe work method statements in relation to the Services.

Work Site means the site referred to in Item 6.

1.2 Interpretation

In the Contract, except where the context otherwise requires:

- (a) clause and subclause headings shall not be used in the interpretation of the Contract;
- (b) words in the singular include the plural and words in the plural include the singular, according to the requirements of the context;
- (c) words importing a gender include every gender;
- (d) a reference to \$ or dollars is to Australian dollars;
- (e) the words "including", "include" and "included" are deemed to be followed by the words "without limitation";
- (f) a reference to legislation or a provision of legislation is to that provision or legislation as amended, re-enacted or replaced from time to time;
- (g) a reference to a document that comprises the Contract includes a reference to a part, clause, schedule, exhibit, annexure and appendix to, of and in that document;
- (h) a reference to a body which ceases to exist is a reference to a body that the parties agree to substitute for the named body or, failing agreement, to a body having substantially the same objects as the named body; and
- (i) where the Service Provider comprises of more than one person, each of the persons comprising the Service Provider will be jointly and severally liable under the Contract.

1.3 Contra proferentem

This Contract is not to be interpreted against the interests of a party merely because that party proposed the Contract or some provision in it.

1.4 Ambiguity or discrepancy

- (a) If the Service Provider becomes aware of any ambiguity or discrepancy in any document forming, or a provision of, the Contract, the Service Provider must, within 10 Business Days of becoming aware, give written notice to the City detailing the ambiguity or discrepancy.
- (b) The City must direct the Service Provider as to the interpretation to be followed as soon as reasonably practicable after receipt of a notice under clause 1.4(a).

1.5 Miscellaneous

- (a) Where a party is comprised of two or more persons, each person will be jointly and severally bound by that party's obligations under the Contract.

- (b) Any provision of the Contract which is illegal, void or unenforceable will be ineffective to the extent only of such illegality, voidness or unenforceability and such illegality, voidness or unenforceability will not invalidate any other provision of the Contract.
- (c) Any consent or approval required under the Contract will only be effective if given in writing and may be given conditionally or unconditionally or withheld in the absolute discretion of the person whose consent or approval is required unless otherwise expressly provided.
- (d) Any amendment or modification to the Contract will only be effective if given in writing and signed by or on behalf of both parties.
- (e) Unless a contrary intention is specifically expressed, no provision of the Contract limits any right of the City or the Service Provider, whether under the Contract or under any law.
- (f) Unless a contrary intention is specifically expressed, none of the following items limit or otherwise reduce the Service Provider's warranties or obligations under the Contract:
 - (i) an approval or consent given by or on behalf of the City;
 - (ii) any review, consultation, monitoring or audit undertaken by or on behalf of the City; or
 - (iii) any comments made by the Contract Manager whether oral or in writing.

2 Engagement of the Service Provider

2.1 Key obligations

- (a) The Service Provider must perform its obligations under the Contract, including the Services, in accordance with the terms of the Contract.
- (b) The City must pay the Service Provider the Fee in accordance with the Contract.



and no other circumstances. Without limiting the foregoing, the Service Provider acknowledges and agrees that there may be periods of inactivity on the part of the Service Provider between stages of the Services and the Service Provider must not make any claim against the City as a result of any such inactivity.



2.2 Independent contractor

- (a) The Service Provider is engaged as an independent contractor.
- (b) Nothing in the Contract makes the Service Provider an employee, agent, partner or joint venturer of the City.

2.3 No authority

Except with the prior written consent of the City, the Service Provider acknowledges and agrees that it has no authority to, and must not:

- (a) act on behalf of the City;
- (b) incur any obligation on behalf of the City; or
- (c) enter into any verbal or written agreement on behalf of the City.

2.4 Conflict of interest

- (a) As at the Date of the Contract, the Service Provider is not aware of any matter which may give rise to an actual or perceived conflict of interest relating to the performance of the Services by the Service Provider.
- (b) If, at any time prior to the expiry or earlier termination of the Contract, the Service Provider becomes aware of any matter which may give rise to an actual or perceived conflict of interest relating to the performance of the Services by the Service Provider, the Service Provider must:
 - (i) immediately notify the City of such matters, including making full disclosure of all relevant information relating to the conflict; and
 - (ii) take such steps to resolve or manage such conflict as required by the City.

3 Provision of the Services

3.1 General

The Service Provider must:

- (a) perform the Services in accordance with the terms of the Contract;
- (b) comply strictly with the Specifications; and

- (c) ensure that all Services comply with all applicable Laws and Australian Standards.

3.2 Acknowledgements by Service Provider

- (a) The Service Provider represents and confirms that it has the requisite technology, Personnel, resources and ability to enable it to perform the Services and all of its other obligations under the Contract.
- (b) The Service Provider acknowledges and agrees that the City has entered into the Contract relying on the representations and confirmations set out in clause 3.2(a).

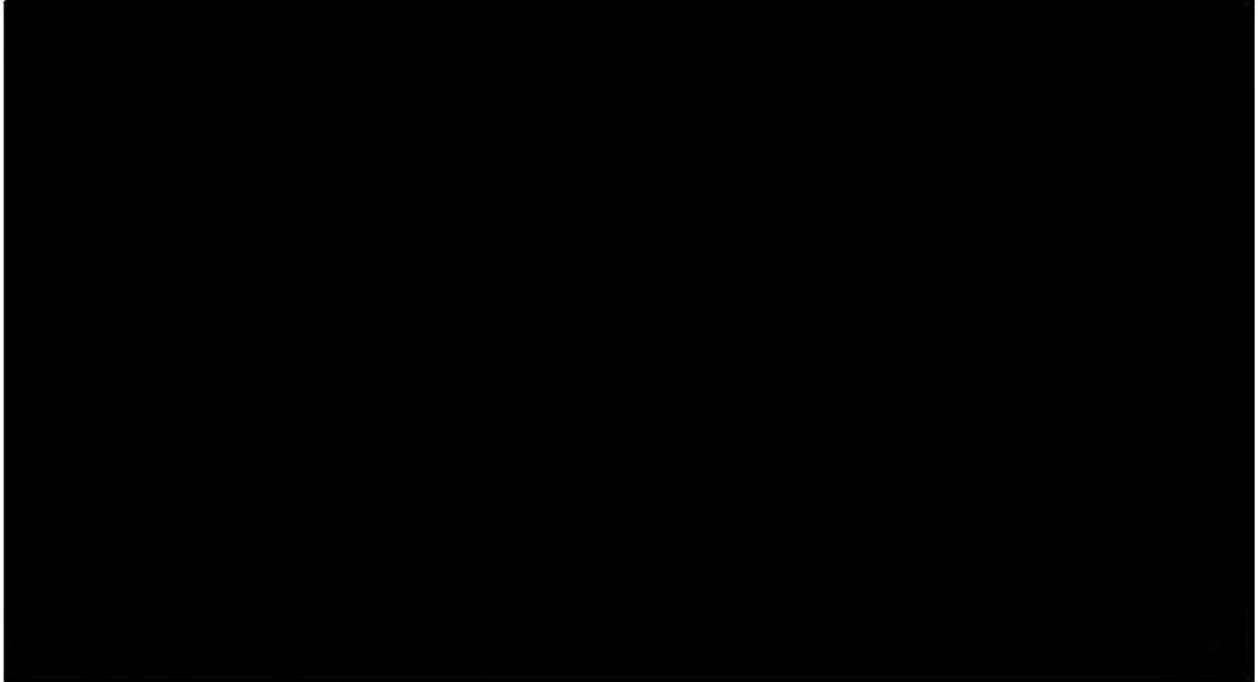
3.3 Standard of Services

The Service Provider must:

- (a) at all times be suitably qualified and experienced for the performance of the Services;
- (b) perform the Services competently and professionally and with the due skill, care and diligence reasonably expected of a qualified and competent service provider experienced in providing services of a similar size, scope and complexity to the Services;
- (c) supply everything necessary for the performance of its obligations under the Contract;
- (d) use any equipment in performance of the Services in the proper manner and for the purposes for which it is provided and in accordance with the manufacturer's and supplier's directions;
- (e) maintain the City's Property and any Work Site used in the performance of the Services in good condition;
- (f) cooperate with any of the City's Personnel in the performance of the Services or as otherwise directed by the Contract Manager from time to time;
- (g) take all necessary and reasonable steps to ensure the security of the Work Site is maintained;
- (h) attend inspections of the Work Site with the City at the City's request;
- (i) ensure that the Services comply strictly with the Specifications;
- (j) ensure that the City has the benefit of all manufacturer's warranties for all products or goods supplied or used in relation to the Services and will enter into all documents and do all things required to do so; and

3.4 Timely provision of the Services

The Service Provider must provide the Services expeditiously and, in any event, in accordance with the timeframes outlined in Annexure A, unless otherwise approved by the City.



3.6 Safety and the environment

Without limiting its other obligations under the Contract or otherwise at law, when carrying out the Services, the Service Provider must:

- (a) immediately inform the Contract Manager if it becomes aware of the existence or possibility of any work health, safety and environmental issues (including any potential breach of any WHS Law) that comes to its attention in connection with the Services;
- (b) have a work health and safety management system in place and apply that system at all times whilst carrying out the Services;
- (c) if applicable, prior to commencing any Services on the Work Site, ensure that all Personnel have undertaken any required induction; and
- (d) as necessary, consult, cooperate and coordinate activities with the City and any other persons who have a common duty under the WHS Law.

3.7 Risk of loss of documents

Until the Service Provider stores all documents created in connection with the Services on the City's relevant asset or document management system, the Service Provider is responsible for the preservation from loss or damage of all documents (including documents stored electronically) created by or provided to the Service Provider in connection with the Services.

3.8 Authorisations

The Service Provider must:

- (a) ensure that it has all Authorisations which are necessary for it to lawfully provide the Services;
- (b) ensure that any such Authorisations are held throughout the Term; and
- (c) provide the City with a copy of any Authorisation and give proof of its currency at the City's request.

3.9 Quality assurance

- (a) The Service Provider must establish and maintain a documented quality assurance system about the Services in accordance with any standard referred to in Item 7.
- (b) The Service Provider must allow the City, or any person nominated by the City, reasonable access to all premises, Personnel, systems, equipment and documents necessary to permit the auditing of the Service Provider's quality control system.

3.10 WHS and environmental obligations

- (a) The Service Provider must accurately complete and provide to the City the WHS Returnable Documents by the due dates set out in Item 8.
- (b) Without limiting clause 3.1(c), the Service Provider must in the performance of the Services:
 - (i) comply with the City's environmental and work health and safety policies as notified by the City to the Service Provider in writing; and
 - (ii) without limiting clause 3.10(b)(i):
 - (A) act in such a manner as to avoid nuisance, unreasonable interference, or damage to the environment and in accordance with any environmental management plan provided by the City to the Service Provider;
 - (B) dispose of all solid, liquid and gaseous contaminants in accordance with applicable Laws and/or the City's requirements and/or the requirements of any relevant Government Agency;
 - (C) remove all refuse resulting from the performance of the Services; and
 - (D) not use or permit the use of any toxic chemicals or materials in connection with the performance of the Services without the City's prior consent and the prior consent of any relevant Government Agency or land owner.

- (c) The Service Provider must notify the City if the Service Provider becomes aware that any of its Personnel is not complying with the City's Policies notified by the City to the Service Provider in accordance with clause 3.10(b)(i) or with any work health and safety requirements applicable to the Services.
- (d) Where the legislation requires, the City appoints the Service Provider as the principal contractor under the *Work Health & Safety Act 2011* (NSW). The Service Provider must bear all costs associated with being the principal contractor.

4 Contract Manager and Service Provider's Personnel

4.1 Contract Manager

- (a) The Contract Manager has authority to act on behalf of the City as its agent and for all purposes in connection with the Contract, except as notified to the Service Provider by the City.
- (b) The Contract Manager may, from time to time, appoint individuals to exercise delegated functions of the Contract Manager, provided that:
 - (i) the Contract Manager gives the Service Provider written notice of respectively:
 - (A) the appointment, including the name and delegated functions of the appointed person; and
 - (B) the termination of each appointment.

4.2 Service Provider's Personnel

- (a) The Service Provider must only engage Personnel in the performance of the Services who:
 - (i) are appropriately qualified, competent and experienced in the provision of the type of services required under the Contract; and
 - (ii) hold and maintain all necessary professional, technical, trade or other licences, authorisations and registrations relevant to the Services and the Contract.
- (b) The Service Provider must replace any Personnel involved in the performance of the Services who, in the reasonable opinion of the Contract Manager:
 - (i) do not fulfil any of the criteria set out in clause 4.2(a); or
 - (ii) fails to comply with the obligations set out in clause 4.2(c).

- (c) The Service Provider must:
 - (i) ensure that each Key Personnel undertakes the role specified in Item 4, and must not replace any Key Personnel without the prior written approval of the Contract Manager;
 - (ii) not permit any Key Personnel to undertake any other role or assignment which would conflict with the Service Provider's obligations under the Contract;
 - (iii) ensure the Personnel comply with any specific dress code and other requirements notified in writing by the City from time to time, including any requirement to display identification (such as name tags or badges) and accreditation issued by the City;
 - (iv) ensure the Personnel render the Services in a polite and helpful manner; and
 - (v) promptly, but in any event no later than 5 Business Days:
 - (A) advise the Contract Manager in writing if it becomes aware or if a Key Personnel in fact ceases to be employed by the Service Provider; and
 - (B) advise the Contract Manager with whom the Service Provider proposes to replace the affected Key Personnel, with the Contract Manager able to reject any person proposed under this clause 4.2(c)(v)(B) at the Contract Manager's sole discretion.
- (d) The Service Provider is solely responsible for maintaining the employer/employee relationship with all Personnel, including but not limited to payment to Personnel of all wages, superannuation, annual leave, sick leave, long service leave, public holidays, redundancy payments or any other similar benefits or allowances under any legislation, industrial award, agreement or contract of employment that are the employer's responsibility to pay for work performed by Personnel in the execution of an assignment.
- (e) Where the Service Provider's Personnel used in relation to carrying out any aspect of the Services are persons other than employees of the Service Provider, including contractors or consultants ("Non-employees"):
 - (i) the Service Provider is solely responsible for ensuring that those Non-employees are paid all amounts due and payable by the Service Provider to those Non-employees, excluding any amount that might be in dispute.
- (f) The Contract Manager may, without limiting the effect or intent of clause 11.3, use clause 11.3 to satisfy themselves that the Service Provider has complied with clauses 4.2(d) and 4.2(e)(i).
- (g) The Service Provider's responsibility for the performance of the Services and for the work and performance of its Personnel is not lessened or

otherwise affected in any way by this clause 4.2 or by anything done in accordance with this clause 4.2.

4.3 Subcontracting

- (a) Without limiting clause 4.2, the Service Provider may only engage Subcontractors in connection with the provision of the Services if, before the engagement of any proposed Subcontractor, the City has approved in writing the engagement of that Subcontractor for the relevant part of the Services.
- (b) If the Service Provider engages a Subcontractor, the Service Provider must:
 - (i) ensure the services performed by the Subcontractor meet the applicable requirements of the Contract;
 - (ii) be entitled to immediately terminate the engagement of the Subcontractor if the Contract is terminated;
 - (iii) ensure that the proposed Subcontractor and its officers, employees, agents or contractors involved in the performance of the subcontracted services:
 - (A) are appropriately qualified, competent and experienced in the provision of the type of services required under the Contract; and
 - (B) hold and maintain all necessary professional, technical, trade or other licences, authorisations, registrations and insurances relevant to the subcontracted services; and
 - (iv) on request from the Contract Manager, provide the City with a copy of any subcontract entered into with the Subcontractor (without prices if the Service Provider requires).
- (c) The obligations of the Service Provider under the Contract are not lessened or otherwise affected by any subcontracting.
- (d) The Service Provider is responsible for the acts and omissions of its Subcontractors as if they were acts and omissions of the Service Provider.

5 Security

N/A

6 Behaviour and conduct

The Service Provider must ensure that it and its Personnel do not engage in any conduct that:

- (a) will, or is likely to, harm the City or its name, reputation or services; or
- (b) may bring the Service Provider or the City into disrepute, scandal or ridicule.

7 Administration of the Contract

7.1 Directions by Contract Manager

- (a) The Service Provider must comply with all reasonable directions given by the Contract Manager.
- (b) If a direction by the Contract Manager is given orally, and is to be relied upon by the Service Provider in seeking additional payment, the Service Provider must confirm the oral direction in writing with the Contract Manager within 2 Business Days of the direction being given.

7.2 Operations Manager

- (a) The Service Provider agrees that the Operations Manager has authority to receive and sign notices and written communications for the Service Provider under the Contract and accept any request or direction in relation to the Services.
- (b) The Service Provider may replace the Operations Manager from time to time by nominating a senior officer to take the place of the Operations Manager in writing to the City. The City may reject such person if it sees fit.
- (c) The City may, on reasonable grounds, give notice to the Service Provider requiring it to replace the Operations Manager. The Service Provider must promptly nominate a senior officer acceptable to the City to take the place of the Operations Manager.
- (d) The Operations Manager must, from time to time, give sufficient information to the Contract Manager to enable the Contract Manager and the City to properly assess the performance of the Service Provider under the Contract.

8 Non-complying Services

8.1 Direction by Contract Manager

If the Contract Manager discovers a Defect or reasonably believes that any of the Services have not been performed in accordance with the Contract (including in strict accordance with the Specifications), and without limiting the City's rights

elsewhere under the Contract or otherwise at law, the Contract Manager may at any time give the Service Provider a direction specifying the non-complying Services and may do one or more of the following:

- (a) require the Service Provider to:
 - (i) remedy the Defect to the Contract Manager's reasonable satisfaction, or re-perform the Services which are defective or otherwise non-complying and specify the time within which this must occur; and
 - (ii) take all such steps as are reasonably necessary to:
 - (A) mitigate the effect on the City of the failure to carry out the Services in accordance with the Contract; and
 - (B) put the City as closely as possible in the position in which it would have been if the Service Provider had carried out the Services in accordance with the Contract; or
- (b) advise the Service Provider that the City will accept the Defect or non-complying Services and make an appropriate adjustment to the Fee to take account of such Defect or non-compliance as reasonably determined by the Contract Manager.

8.2 Service Provider to re-perform

If a direction is given under clause 8.1(a), the Service Provider must re-perform the non-complying Services or rectify the Defect within the time specified in the Contract Manager's direction.

9 Access to a Work Site

9.1 Non-exclusive access

- (a) Without limiting the Service Provider's other obligations under the Contract and subject to any limitation in Item 10, the City must give the Service Provider non-exclusive access to that part of a Work Site sufficient to enable the Service Provider to carry out the Services.
- (b) Delay by the City in giving access to a Work Site will not constitute a breach of the Contract.

9.2 Requirement for access to a Work Site

- (a) The Service Provider must:
 - (i) act co-operatively with the City and its Personnel and any occupiers and users of a Work Site; and

- (ii) perform the Services so as to cause as little inconvenience as possible to those persons as well as occupiers and users of land adjacent to a Work Site.
- (b) Without limiting the Service Provider's other obligations under the Contract, the Service Provider must at all times while it is on a Work Site:
 - (i) comply with all procedures and policies of the City relating to a Work Site and directions of the Contract Manager; and
 - (ii) confine its activities within the minimum area necessary for the performance of the Services.

10 City's Property

10.1 Access to the City's Property

Unless otherwise agreed between the parties, where the Service Provider requires access or connection to the City's Property:

- (a) the City will grant the Service Provider access to the City's Property for the sole purpose of and only to the extent necessary as determined by the City to enable the Service Provider to provide the Services to the City, and by such means as the City determines in its absolute discretion;
- (b) the Service Provider must comply with any systems, health, safety, technical, security and other requirements, regulations, policies, directions and safety standards notified to it by or on behalf of the City from time to time or as might reasonably be inferred from the use to which the City's Property are put;
- (c) the Service Provider must not use its access or connection to the City's Property to:
 - (i) interfere with or disrupt the City's Property or any equipment or service of any person (including the City customers and service providers);
 - (ii) circulate any unsolicited or unauthorised marketing, publicity or advertising material;
 - (iii) transmit computer worms or viruses;
 - (iv) send harassing, obscene, indecent or threatening electronic mail or messages; or
 - (v) forge electronic mail or messages or their source; and
- (d) the City may, without notice, suspend or terminate the Service Provider's access or the connection to the City's Property if:

- (i) the Service Provider fails to comply with its obligations under this clause 10; or
- (ii) the City reasonably believes that the Service Provider's access or connection to the City's Property is impairing, interfering with or damaging any part of the City's Property or their operation or any other equipment or service of any person (including any customers or service providers of the City).

10.2 **Service Provider acknowledgment**

The Service Provider acknowledges and agrees that access to the City's Property under clause 10 is at its own risk, except for any negligent act or omission by the City.

10.3 **Public information**

The Service Provider must not:

- (a) take or permit to be taken any photograph, drawing or sketch of the Services being performed on a Work Site except for the purpose of performing the Services; or
- (b) in any advertising or promotional material, use or permit to be used the City's name,

except with the prior written consent of the City.

10.4 **Keys**

The Service Provider:

- (a) must comply with any directions of the City concerning the use of keys (including electronic cards or other devices necessary for obtaining access) supplied by the City to the Service Provider;
- (b) will be responsible for all keys issued;
- (c) must not lend the keys or remove the keys from a Work Site;
- (d) must maintain a key register which sets out, at a minimum:
 - (i) what keys have been provided to the Service Provider from the City;
 - (ii) the current location of those keys; and
 - (iii) the movement of those keys, including which Personnel have had access to or used those keys;
- (e) must not use the keys other than for access for provision of the Services; and
- (f) must meet the costs of the City supplying additional or replacement keys and any re-pining, re-programming or re-keying of locks or security devices

that the City requires due to keys being lost, stolen, damaged or unaccounted for by the Service Provider.

11 Reports, meetings and audits

11.1 Reports

The Service Provider must provide to the City:

- (a) all reports set out in the Specifications in accordance with the Specifications as applicable, and which are accurate and not misleading in any respect;
- (b) such other reports in relation to the Contract or the Services as may be reasonably requested by the Contract Manager from time to time; and
- (c) without limiting the foregoing, if requested, a schedule demonstrating the Service Provider's resources available to meet the requirements of the Contract.

11.2 Meetings

The Service Provider must:

- (a) attend all meetings set out in the Specifications;
- (b) attend such other meetings in relation to the Services as may be reasonably requested by the Contract Manager; and
- (c) if requested by the Contract Manager, ensure that any relevant Subcontractors attend the meetings contemplated in this clause 11.2.

11.3 Availability, audit and access

- (a) Without limiting any of its other obligations under the Contract, the Service Provider must:
 - (i) keep complete, accurate and up to date records, including books of account, labour time sheets, final accounts and any other documents or papers which:
 - (A) show all details in relation to the Services (including evidence of compliance with clause 3.9 and matters relating to work health and safety such as any applicable safe work method statements); and
 - (B) are maintained in a form and manner that facilitates access and inspection under this clause 11;
 - (ii) at the request of the Contract Manager at any time during the performance of the Services, and the additional period of time (if any) stated in Item 11 following the completion of the Services or the earlier termination of the Contract, make available one complete

set of the records referred to in clause 11.3(a)(i) for inspection and copying by:

- (A) the City or the Contract Manager; or
 - (B) any other person nominated by the Contract Manager;
 - (iii) provide the Contract Manager with copies of documents affecting the Services as may be required by the Contract Manager;
 - (iv) participate in audits under the Contract at the frequency and in relation to the matters specified by the City (including on an ad hoc basis if requested by the City), for the purpose of ensuring that the Contract is being properly performed and administered. The City may, but is not obliged to, appoint an independent person to assist in the audits. Audits may consider all aspects of the Service Provider's performance; and
 - (v) participate promptly and cooperatively in any audits conducted by the City or its nominee.
- (b) The Service Provider must promptly take corrective action to rectify any error, non-compliance or inaccuracy identified during an audit in relation to the discharge of its obligations under the Contract.

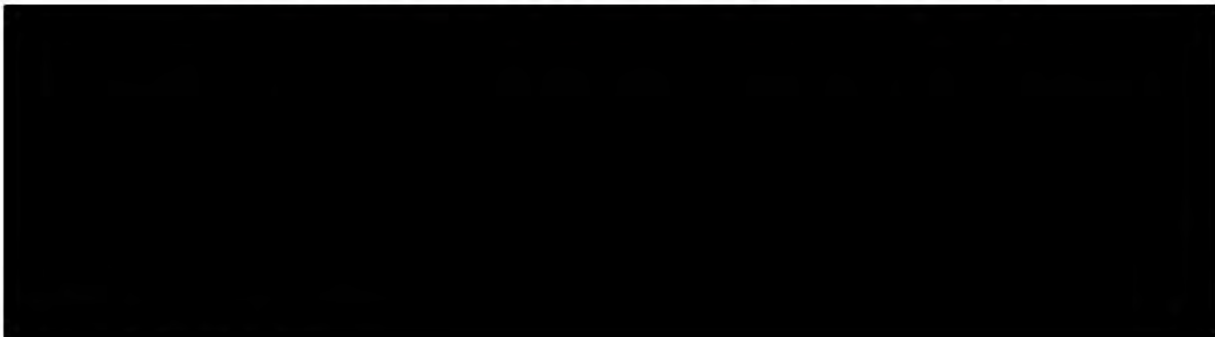
12 Variation or suspension of Services

12.1 Directions to vary

- (a) The Contract Manager may, by a written document titled "Variation Order", direct the Service Provider to vary the Services (including by way of increase, decrease, omission or change), if the variation is within the general scope of the Contract. The Service Provider must comply with any direction issued pursuant to this clause 12.1(a).
- (b) If the Service Provider receives a direction from the Contract Manager which, although not stated to be a "Variation Order", the Service Provider considers to be a direction to carry out a variation, the Service Provider must:
 - (i) within 5 Business Days of receipt of such direction, advise the Contract Manager that it considers the direction to be a variation direction; and
 - (ii) not commence the services the subject of the direction until the Contract Manager advises:
 - (A) whether it considers the direction to be a variation; or
 - (B) that the Service Provider should commence the relevant service immediately whether or not the Contract Manager considers the direction to be a variation.

- 
- (d) If the Contract Manager directs a variation which omits any part of the Services, the City may thereafter carry out this omitted service either itself or by engaging another Service Provider.
 - (e) The variation to the Services must be performed in accordance with and subject to the terms and conditions of the Contract and is deemed to be incorporated into the Contract.

12.2 Consequences of variation or proposed variation

- (a) Before directing a variation, the Contract Manager may request the Service Provider to provide a written estimate of the time, cost and programming effects of the proposed variation.
 - (b) If the Contract Manager requests the Service Provider to provide an estimate under clause 12.2(a), the Service Provider must provide the written estimate within the time nominated by the Contract Manager.
- 

12.4 Change in law

If a new law or a change in a law after the Date of the Contract:

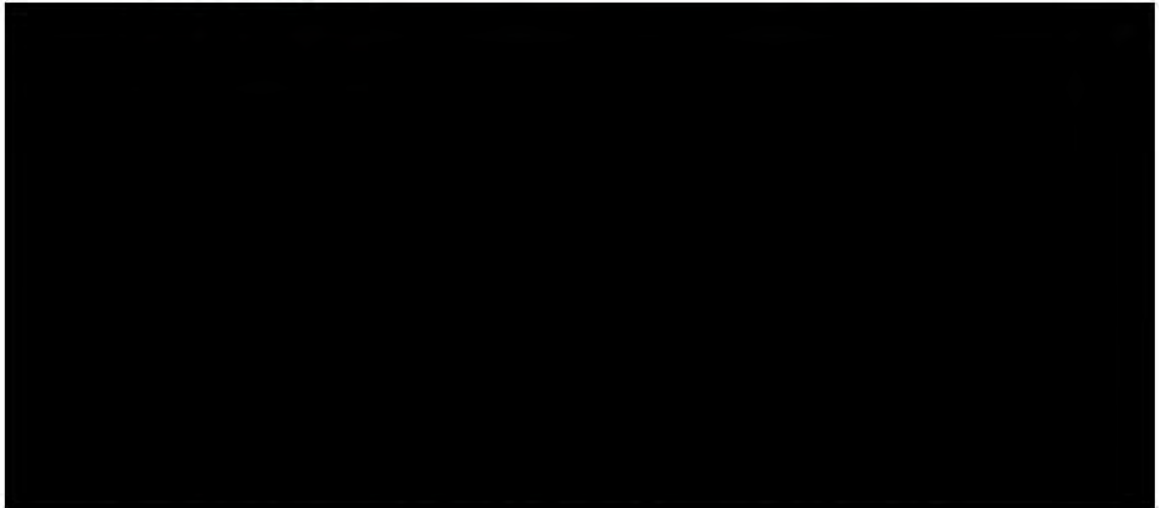
- (a) necessitates a change to the Services;
- (b) has effect after the Date of the Contract; and
- (c) could not reasonably have been anticipated at the Date of the Contract,

then, to the extent the Services cost more for the Service Provider to perform due to the new or changed law, any such additional cost shall be valued pursuant to clause 12.3.

12.5 Suspension of Services

- (a) Except as permitted by law or directed by the Contract Manager, the Service Provider must not suspend the performance of any or all of the Services.

- (b) The Contract Manager may immediately suspend the performance of any or all of the Services at any time and for any reason by giving a direction to that effect to the Service Provider.
- (c) Except to the extent permitted by law, the Service Provider must resume the performance of the suspended Services as soon as practicable after being directed by the Contract Manager and, in any event, not later than 5 Business Days after receiving a written direction to do so from the Contract Manager.



- (e) To the extent permitted by law, the Service Provider is not entitled in contract, tort or otherwise to any payment or compensation for any costs or losses suffered by the Service Provider as a result of a suspension of the Services, except as provided for in this clause 12.5.

13 Payment

13.1 Payment claims and invoices

The Service Provider may only serve an invoice on the City for the performance of Services in accordance with the Contract for amounts then payable:

- (a) on the date, or completion of the applicable event, stated in Item 13, provided however that not more than one invoice may be served on the City in any month; and
- (b) in the form, and containing all details, set out below:
 - (i) the total amount claimed (including the amount of any applicable GST);
 - (ii) an itemised breakdown of how the payment claim is calculated;
 - (iii) documentary evidence supporting the Service Provider's claim for the Services performed during the relevant period, including the statutory declaration and statements in the form and on the terms set out in Schedule 5 (or such other form and terms as may be

required by the Contract Manager) signed by the Service Provider;
and

- (iv) any other details reasonably required by the City.

13.2 Payment

- (a) The City will pay correctly rendered invoices, less any amount due from the Service Provider to the City as a result of clause 13.3 or otherwise, within 30 days of the date the City receives an invoice.
- (b) Unless otherwise agreed by the City, payment to the Service Provider will be made by electronic funds transfer to the Service Provider's nominated bank account as notified in writing to the City from time to time.
- (c) Payment of the Fee:
 - (i) is on account only; and
 - (ii) does not constitute any admission that performance by the Service Provider is in any respect in accordance with the Contract.



13.4 GST

- (a) Terms used in this clause 13.4 which are not defined in the Contract, but which are defined in the GST Law, have the meanings given to them in the GST Law.
- (b) Amounts payable, and consideration to be provided, under any other provision of the Contract exclude GST unless otherwise stated in the Contract.
- (c) If GST is payable on a supply made under or in connection with the Contract (not being a supply the consideration for which is specifically described in the Contract as being inclusive of GST), the recipient of the supply ('**recipient**') must pay to the party making the supply ('**supplier**') an amount equal to the GST payable on that supply at the time the recipient pays or provides any part of the consideration for the supply.
- (d) The supplier must give a tax invoice to the recipient before the time when the recipient is required to pay or provide any part of the consideration for the supply. Without limiting the foregoing but subject to clause 13.5, where

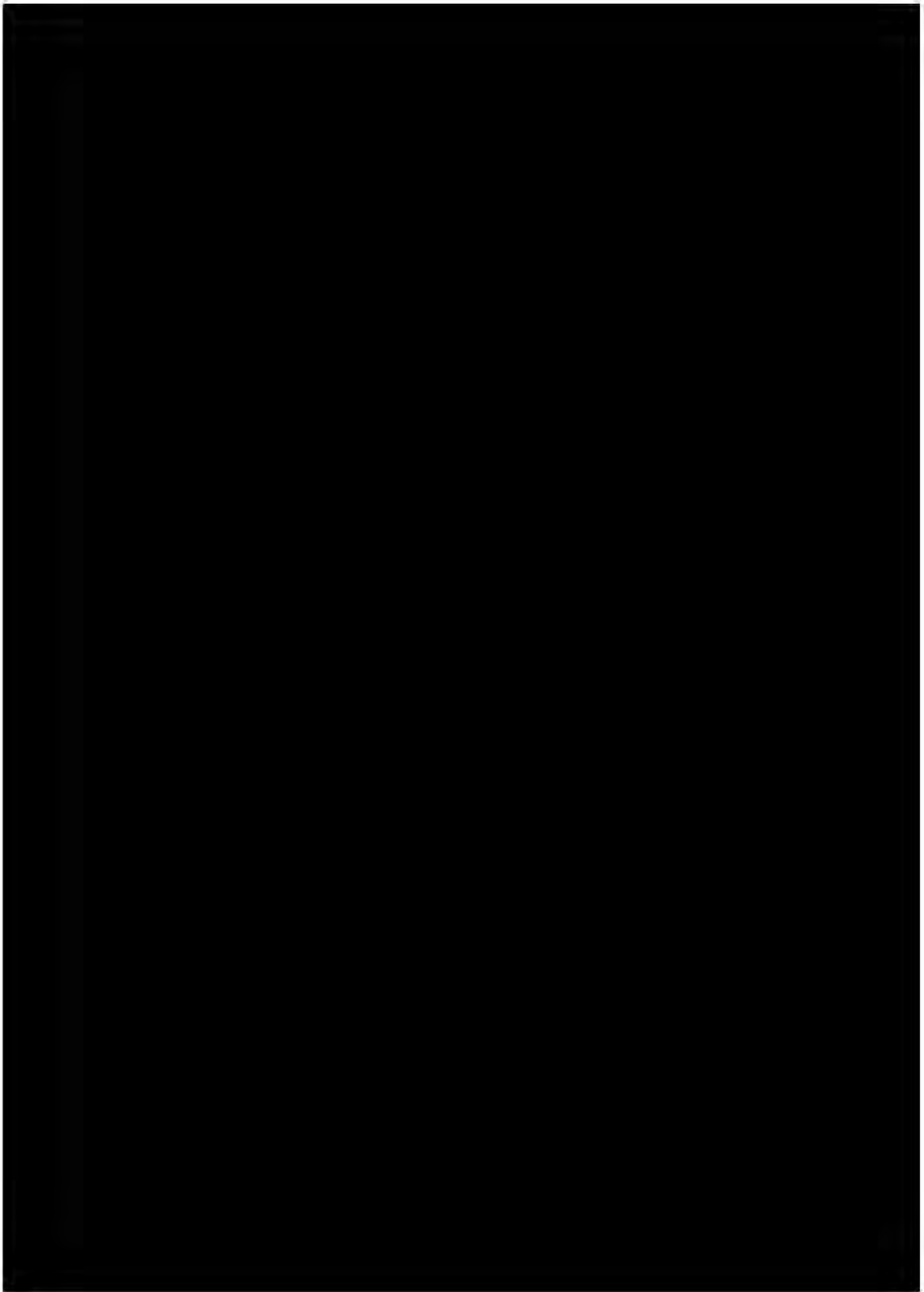
the supplier is the Service Provider, the Service Provider must, as soon as possible and in any event within 5 Business Days of the date stated in Item 13, provide the City with a tax invoice.

- (e) If an adjustment event arises in connection with a supply made under or in connection with the Contract, the supplier must recalculate the GST payable to reflect the adjustment event and give the recipient an adjustment note as soon as reasonably practicable after the supplier becomes aware of the adjustment event. The adjustment amount must be paid without delay either by the recipient to the supplier or by the supplier to the recipient, as the case requires.
- (f) If any part of a supply is treated as a separate supply for the purposes of the GST Law (including attributing GST payable to tax periods), that part of the supply will be treated as a separate supply for the purposes of this clause 13.4.
- (g) Where a party ('**payer**') must pay to another party ('**payee**') an amount in respect of a cost, expense or loss ('**outgoing**') of the payee, the amount payable is the sum of:
 - (i) the amount of the outgoing less any input tax credit in respect of it to which the payee, or its GST group representative member, is entitled; and
 - (ii) if the amount payable is subject to GST, an amount equal to that GST.

13.5 Recipient created tax invoices

The parties acknowledge that:

- (a) the City may, in its sole discretion, issue tax invoices in respect of all supplies under, or in connection with, the Contract and the Service Provider will not issue tax invoices when the City exercises this discretion;
- (b) the Service Provider is registered for GST and will notify the City if it ceases to be registered;
- (c) the City is registered for GST and will notify the Service Provider if it ceases to be registered, or if it ceases to satisfy any of the requirements of any tax ruling relating to the issue of recipient created tax invoices; and
- (d) if one, or more, of the criteria, which must be satisfied to allow the City to issue recipient created tax invoices, is not satisfied, such that the City cannot issue a tax invoice in respect of supplies made under, or in connection with, the Contract, the Service Provider must issue a tax invoice (being an invoice that complies with GST Law and contains both the ABN details of the City and the Service Provider) to the City for the amount specified by the City, when requested.



14 Step in rights

14.1 Failure to perform a Material Obligation

- (a) If the Service Provider:
 - (i) fails to perform a Material Obligation strictly in accordance with the Contract; and
 - (ii) fails to rectify that failure within 5 Business Days of being required by written notice from the City to do so,then the City may, either by itself or through a third party, perform that obligation.
- (b) If the City:
 - (i) has not yet paid the Service Provider in relation to the Material Obligation that the Service Provider has failed to perform, then the costs, expenses, losses and damages incurred by the City in performing that obligation will be a debt due from the Service Provider to the City; and
 - (ii) has already paid the Service Provider in relation to the obligation that the Service Provider has failed to perform, then any costs, expenses, losses and damages in excess of the proportion of the payment applicable to the obligation, incurred by the City in performing that obligation will be a debt due from the Service Provider to the City.
- (c) This clause 14 does not limit any other remedy which the City may have against the Service Provider for any breach of the Contract.

15 Intellectual Property and Information Documents

15.1 Background Intellectual Property Rights

- (a) Each party will retain all of its Background Intellectual Property Rights.
- (b) The City grants the Service Provider a non-exclusive, royalty-free and non-transferable licence for the term of the Contract, to use the City's Background Intellectual Property Rights for the sole purpose of enabling the Service Provider to perform its obligations under the Contract.
- (c) The Service Provider grants the City an irrevocable, perpetual, royalty-free, non-exclusive licence (with the right to sub-licence) to use, copy, modify and publish the Service Provider's Background Intellectual Property Rights for any purpose in relation to the Services.

15.2 Intellectual Property Rights

- (a) The Service Provider assigns to the City, all Intellectual Property Rights in the Developed Material (including all draft and interim versions):
 - (i) in existence at the Date of the Contract, with effect on and from the Date of the Contract; and
 - (ii) created after the Date of the Contract, with effect on and from the date of creation of such Developed Material.
- (b) The Service Provider undertakes to do all acts and execute all documents necessary or desirable for perfecting the City's title to the Developed Material.
- (c) The Service Provider acknowledges that its only rights in respect of the Developed Material are those rights of use pursuant to the Contract and the Service Provider does not have any right, title or interest to the Developed Material or any goodwill in any Materials.
- (d) The City grants to the Service Provider a non-exclusive, royalty-free and non-transferable licence for the term of the Contract, to use the Developed Material for the sole purpose of the Service Provider performing its obligations under the Contract.
- (e) The Service Provider must not sublicense the licence granted to it under clauses 15.1(b) and 15.2(d) to any person without the prior written consent of the City.

15.3 Moral Rights

- (a) The Service Provider agrees, and must procure that it obtains all necessary consents from its Personnel, to any act or omission that might otherwise infringe an author's Moral Rights, including acts or omissions that occurred before, on or after the Date of the Contract.
- (b) Where requested by the City, the Service Provider must promptly and, in any event within 10 Business Days of such request, provide the City with evidence of the written consents required to be obtained under clause 15.3(a).

15.4 Intellectual Property representations

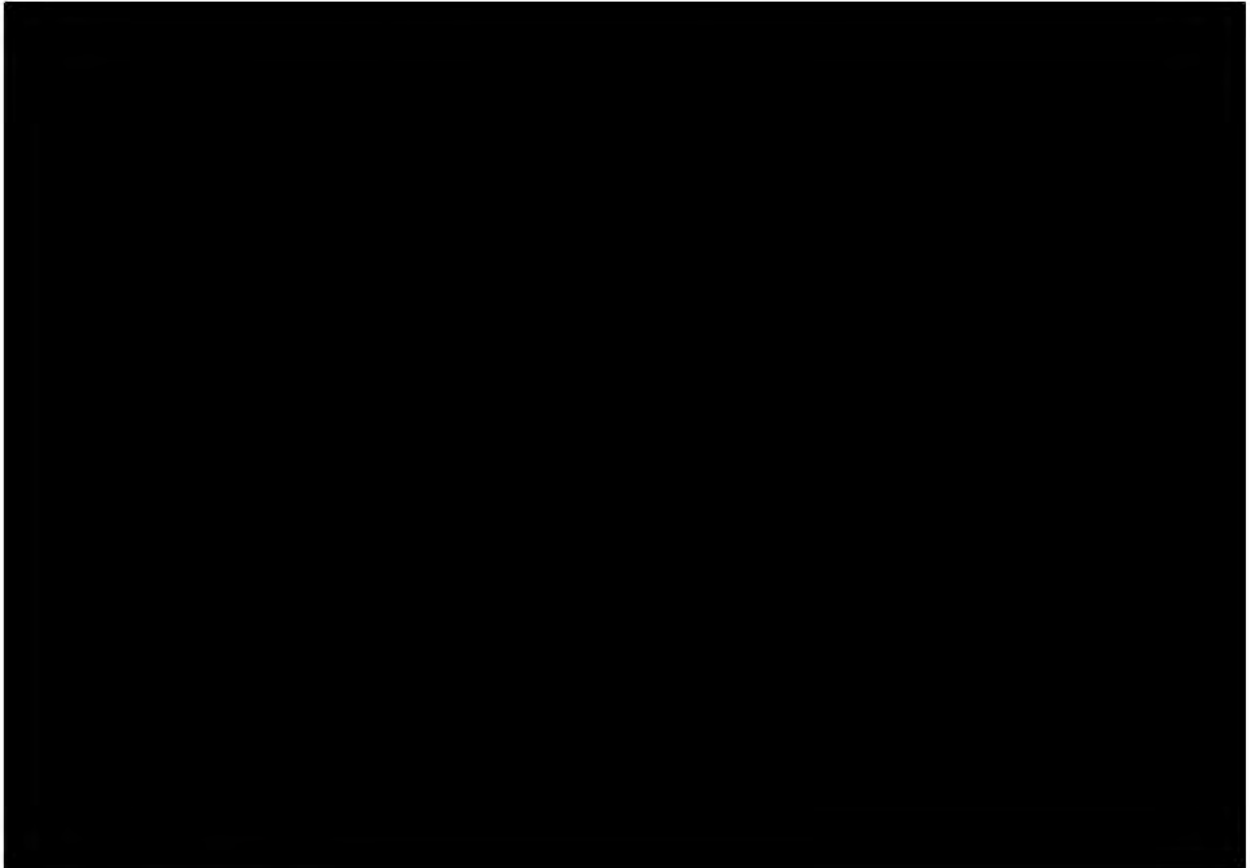
The Service Provider represents to the City that in providing the Services:

- (a) it owns or is licenced to use all Intellectual Property Rights (including Background Intellectual Property Rights) provided under or in connection with the Contract; and

15.5 Information Documents

- (a) Information Documents are provided to the Service Provider for information only and the Service Provider acknowledges that it has:

- (i) not relied on the contents of any Information Documents; and
 - (ii) made its own enquiries and formed its own view on the issues covered in the Information Documents.
- (b) Neither the City nor the Contract Manager is responsible for the accuracy or the contents of, or makes any representation or assumes any duty of care in respect of, the Information Documents.



17 Insurance

17.1 Service Provider's insurances

The Service Provider must:

- (a) from the date the Service Provider commences the Services, effect and maintain the following insurances:
 - (i) public liability insurance that:
 - (A) is for not less than the amount referred to in Item 14;
 - (B) is written on an occurrence basis covering the liability of the Service Provider and its Personnel to third parties (including each other) for property loss or damage or loss of use

(including to property of the City in the care, custody or control of the Service Provider) and injury to, disease or illness (including mental illness) of or death of persons arising out of, or in connection with, the performance of the Services; and

- (C) covers the City for its vicarious liability for the acts and omissions of the Service Provider and its Personnel;
- (ii) professional indemnity insurance covering the liability of the Service Provider for a breach of professional duty as a result of an act or omission by the Service Provider or its Personnel in connection with the performance of this Contract with a limit of liability of not less than the amount referred to in Item 14 for each claim and in the aggregate for claims in any 12 month policy period and including cover for unintentional breaches of consumer protection legislation and unintentional infringement of Intellectual Property Rights;
- (iii) workers compensation insurance as required by law;
- (iv) plant and equipment insurance that:
 - (A) covers the repair and/or replacement costs for damaged or stolen units owned or used by the Service Provider under the Contract;
 - (B) covers liability to third parties for loss, damage, injury or death arising from the use and operation of any unit by the Service Provider under the Contract;
- (b) effect the insurances set out in clause 17.1(a) with an insurer licensed by the Australian Prudential Regulatory Authority in Australia or with an investment grade rating from an industry recognised rating agency such as Moodys, Standard & Poors or A M Best;
- (c) ensure that its Subcontractors maintain the insurances stated in Item 15;
- (d) on request, provide the City with a certificate of currency for each policy of insurance and the financial security rating of each insurer;
- (e) ensure that:
 - (i) if the insurer gives the Service Provider notice of cancellation of, rescission of or intention not to renew any required insurance policy, the Service Provider as soon as possible informs the City in writing that the notice has been given and effects the appropriate replacement insurance in accordance with the requirements of this clause 17;
 - (ii) the Service Provider does not cancel, rescind or fail to renew any required insurance policy without effecting replacement insurance as required by the Contract so as to ensure no gap in cover and inform the City in writing as soon as possible of the identity of the replacement insurer and the terms of that insurance, and providing

such evidence as the City reasonably requires that the replacement insurance complies in all relevant respects with the requirements of the Contract; and

- (iii) if the available limit under its professional indemnity insurance is materially depleted by claims unrelated to the Contract, it informs the City as soon as possible and reinstates or replaces the available limit unless the City has otherwise agreed in writing; and
- (f) ensure that it:
 - (i) does not do or omit to do anything whereby any insurance may be prejudiced;
 - (ii) if necessary, takes all reasonable steps to rectify any situation which might prejudice any insurance;
 - (iii) renews or replaces any required insurance policy if it expires during the relevant period;
 - (iv) does not cancel or allow an insurance policy to lapse during the period for which it is required by the Contract without the prior written consent of the City;
 - (v) immediately notifies the City in writing of any event which may result in a required insurance policy lapsing, being cancelled or rescinded; and
 - (vi) complies fully with its duty of disclosure and obligations of utmost good faith toward the insurer and in connection with all of the required insurance policies.

The obtaining of insurance as required under this clause 17.1 will not in any way limit, reduce or otherwise affect or be affected by any of the obligations, responsibilities and liabilities of the Service Provider under any other provision of the Contract or otherwise at law or in equity.

17.2 Period of insurance

The insurance which the Service Provider is required to obtain under clause 17.1 must be maintained:

- (a) in the case of public liability insurance, workers compensation insurance, plant and equipment, compulsory third party and comprehensive motor vehicle insurance and property or industrial special risk insurance, until the completion of the Services or the earlier termination of the Contract; and
- (b) in the case of professional indemnity insurance, until the expiration of the period specified in Item 2.

17.3 Notice of potential claim

The Service Provider must:

- (a) as soon as possible inform the City in writing of any occurrence that gives rise or may give rise to a claim under an insurance policy maintained in compliance with clause 17.1 which arises in connection with the Contract and may involve the City; and
- (b) keep the City informed of all significant developments concerning the claim, except in circumstances where the City is making a claim against the Service Provider,

provided that, in respect of professional indemnity insurance, the Service Provider:

- (c) is not required to provide details of individual claims; and
- (d) must notify the City if the estimated total combined value of claims made against the Service Provider and claims which may arise from circumstances reported by the Service Provider to its insurer in a policy year would potentially reduce the available limit of policy indemnity for that year below the amount required by the Contract.

17.4 Severability and cross liability

- (a) This clause 17.4 does not apply to statutory insurances required under the Contract.
- (b) The Service Provider must ensure that insurances maintained in compliance with clause 17.1 which extend cover to more than one insured provide that:
 - (i) the insurance (with the exception of limits of liability) will operate in the same manner as if there were separate policies of insurance covering each insured and the acts and omissions (including any failure to comply with the duty of disclosure) of any one insured will not be imputed to any other insured for the purposes of determining rights to cover of that other insured;
 - (ii) the insurer waives all rights, remedies or relief to which it might become entitled by subrogation against any of the parties to whom coverage extends; and
 - (iii) a notice to the insurer by one insured will be deemed to be notice on behalf of all insureds.

18 Confidentiality, privacy and related matters

18.1 Confidential information

- (a) Subject to clause 18.1(b):
 - (i) the Service Provider must:
 - (A) keep confidential the terms of the Contract, any documents produced under the Contract and any information leading to the creation of the Contract; and
 - (B) ensure that each of its Personnel comply with the terms of clause 18.1(a)(i)(A); and
 - (ii) each party must keep confidential all information of the other that:
 - (A) is by its nature confidential;
 - (B) is marked or designated as confidential at the time of its disclosure by or on behalf of the disclosing party; or
 - (C) the receiving party knows or ought to know is confidential.
- (b) Neither party is obliged to keep confidential any information disclosed to it by or on behalf of the other party:
 - (i) which is otherwise in the public domain other than by a breach of the Contract by the receiving party;
 - (ii) the disclosure of which is:
 - (A) required by law;
 - (B) made with the prior written consent of the disclosing party;
 - (C) made to a court in the course of proceedings to which the disclosing party is a party; or
 - (D) required by the listing rules of a recognised stock exchange; or
 - (iii) which is disclosed by the receiving party to its legal or other advisers, or to its Personnel in order to comply with its obligations or to exercise its rights under or in connection with the Contract provided that such persons are under an obligation to keep the information confidential.
- (c) The Service Provider must promptly return to the City or destroy such Confidential Information on the written request by the City provided that (except in the case of any termination of the Contract), the Service Provider may retain for bone fide record keeping purposes only one copy of any Deliverable. The copy of the Deliverable retained by the Service Provider

must be kept in a secure area and access restricted to the Deliverable in accordance with this clause 18.1.

18.2 Privacy

Without limiting its obligations at law with respect to privacy and the protection of Personal Information, the Service Provider must (and must procure that its Personnel):

- (a) comply with the Privacy Laws and any other privacy guidelines and requirements that the City notifies the Service Provider that it must comply with;
- (b) only use Personal Information for the sole purpose of fulfilling its obligations under the Contract;
- (c) protect all Personal Information from unauthorised access, modification, disclosure or use; and
- (d) immediately notify the City on becoming aware of any unauthorised access, modification, disclosure or use of Personal Information or privacy breach in relation to any Personal Information.

18.3 No publicity

- (a) The Service Provider must not use the City's name, trade mark or logo in any advertisement, media release, public statement, promotional materials or announcement relating to the Contract or the Services without the City's prior written approval.
- (b) If the Service Provider receives any enquires from the media in relation to the Contract or the Services, the Service Provider must promptly refer such enquires to the City.

18.4 Public Access to Government Information

- (a) The Service Provider acknowledges and agrees that the City may disclose information in the Contract (including the entire Contract) on its nominated website established for disclosures under the *Government Information (Public Access) Act 2009* (NSW) ('GIPA Act').
- (b) The Service Provider must, upon receipt of a written request by the City, provide the City with immediate access to the following information contained in records (as defined in the GIPA Act) held by the Service Provider:
 - (i) information that relates directly to the Services; and
 - (ii) information received by the Service Provider from the City to enable it to provide the Services.

- (c) For the purposes of clause 18.4(b), information does not include:
 - (i) information that discloses or would tend to disclose the Service Provider's financing arrangements, financial modelling, cost structure or profit margin;
 - (ii) information that the Service Provider is prohibited from disclosing to the City by provision made by or under any law; or
 - (iii) information that, if disclosed to the City, could reasonably be expected to place the Service Provider at a substantial commercial disadvantage in relation to the City, whether at present or in the future.
- (d) The Service Provider must provide copies of any of the information in clause 18.4(b), as requested by the City, at the Service Provider's own expense.

19 Term and termination

19.1 Term

The Contract commences on the Date of the Contract and, unless otherwise extended under clause 19.2 or terminated on its terms, expires on the Expiry Date ('Term').

19.2 Further Terms

The City may extend the Contract for the Further Term (if any) specified in Item 16, commencing on the Expiry Date or the expiry of a previous Further Term (as applicable), by giving written notice to the Service Provider no later than 2 months prior to the Expiry Date or the expiry of a previous Further Term (as applicable). The maximum number of Further Terms is specified in Item 16.

19.3 City may terminate for convenience

- (a) The City may terminate the Contract at any time and for any reason, and in its sole discretion, by giving to the Service Provider not less than the period of prior written notice specified in Item 17.
- (b) If the Contract is terminated pursuant to this clause 19.1, the City must pay the Service Provider:
 - (i) any accrued portion of the Fee for Services carried out up to and including the date of termination; and
 - (ii) the Service Provider's direct costs and expenses (excluding profit) reasonably and necessarily incurred by reason of the termination except to the extent that such costs and expenses are already payable pursuant to clause 19.3(b)(i)

- (c) Except as set out in clause 19.3(b), the Service Provider is not entitled to any other payment in connection with the termination of the Contract under this clause 19.1, including for any costs, losses (including loss of profit) or damage.

19.4 Termination for cause

- (a) In addition to any other rights that it has under the Contract or at law, the City may terminate the Contract by giving notice in writing to the Service Provider if:
 - (i) the Service Provider breaches any provision of the Contract and that failure or breach:
 - (A) is incapable of remedy; or
 - (B) if it is capable of remedy, continues for 10 Business Days after the date the City gives the Service Provider a notice requiring the breach to be remedied;
 - (ii) the Service Provider notifies the City of an actual or perceived conflict of interest under clause 2.4 that is unable to be rectified or managed by the Service Provider to the reasonable satisfaction of the City within a reasonable time;
 - (iii) an Insolvency Event occurs; or
 - (iv) the Service Provider breaches a Material Obligation.
- (b) In addition to any other rights that it has under the Contract or at law, the Service Provider may terminate the Contract by giving notice in writing to the City if the City breaches any provision of the Contract and that failure or breach continues for 10 Business Days after the date the Service Provider gives the City a notice requiring the breach to be remedied.
- (c) The parties agree that any termination in accordance with clause 19.4(a) or clause 19.4(b) will be treated as if it were termination for repudiation of the Contract by the Service Provider or the City (as the case may be).

19.5 Service Provider's obligations on termination or completion of the Services

Without limiting the Service Provider's obligations elsewhere in the Contract, within 5 Business Days of the completion of the Services or earlier termination of the Contract, the Service Provider must:

- (a) deliver to the City, or if directed by the Contract Manager destroy, all material and information made available by the City to the Service Provider; and
- (b) deliver to the City copies of all documents produced by the Service Provider in relation to the Services,

including all confidential information and Information Documents, except that the Service Provider is entitled to retain a copy of such materials, information and

documents to the extent that it is required to do so by law or for a legitimate quality assurance purpose.

20 Dispute resolution

20.1 Notice of dispute

- (a) If a Dispute between the parties arises out of, or in any way in connection with, the subject matter of the Contract, then either party may, by hand or by registered post, give the other and the Contract Manager a written notice of dispute adequately identifying and providing details of the Dispute.
- (b) Notwithstanding the existence of a Dispute, the parties must, subject to clause 19 and clause 20.3, continue to perform the Contract.

20.2 Negotiation

- (a) Within 10 Business Days after receiving a notice of dispute, representatives from the senior management of the parties set out in Item 18 must undertake genuine negotiations with a view to resolving the Dispute.
- (b) If the Dispute has not been resolved within 20 Business Days of service of the notice of dispute, either party may commence legal proceedings as they see fit.

20.3 Expert determination

- (a) If the dispute has not been resolved within 20 Business Days of service of the notice of dispute, either party may refer the dispute to expert determination in accordance with clauses 20.4 to 20.11.
- (b) Clauses 20.2(b) and 20.4 to 20.11 will only apply if both parties agree in writing, within 20 Business Days of service of the notice of dispute, to have the matter resolved by way of expert determination.

20.4 The expert

The expert determination is to be conducted by an independent industry expert:

- (a) agreed by the parties; or
- (b) failing agreement within 10 Business Days of the referral, as nominated by the Principal (acting reasonably, which expert must be suitably qualified and experienced in light of the nature of the dispute in question).

20.5 Not arbitration

An expert determination conducted under this clause 20 is not arbitration and the expert is not an arbitrator. The expert may reach a decision from his or her own knowledge and expertise.

20.6 Procedure for determination

The expert will:

- (a) act as an expert and not as an arbitrator;
- (b) proceed in any manner he or she thinks fit but must observe the rules of natural justice;
- (c) conduct any investigation which he or she considers necessary to resolve the dispute;
- (d) examine such documents, and interview such persons, as he or she may require; and
- (e) make such directions for the conduct of the expert determination as he or she considers necessary.

20.7 Disclosure of interest

The expert must:

- (a) disclose to the parties any interest he or she has in the outcome of the expert determination; and
- (b) not communicate with one party to the expert determination without the knowledge of the other.

20.8 Costs

Each party will:

- (a) bear its own costs in respect of any expert determination; and

- (b) [REDACTED]

20.9 Conclusion of expert determination

Unless otherwise agreed between the parties, the expert must notify the parties of his or her decision upon an expert determination conducted under this clause 20 within 20 Business Days from the acceptance by the expert of his or her appointment.

20.10 Liability of expert

The expert will not be liable to the parties arising out of, or in any way in connection with, the expert determination process, except in the case of fraud. The parties must enter into an agreement with the appointed expert on the terms set out in Schedule 7 or such other terms as the parties and the expert may agree.

20.11 Determination of expert

The determination of the expert:

- (a) must be in writing;
- (b) will be:
 - (i) substituted for the relevant direction of the Principal's Representative (where applicable); and
 - (ii) final and binding,unless:
 - (iii) the amount determined by the expert exceeds the amount in Item 19; and
 - (iv) a party gives notice of appeal to the other party within 15 Business Days of the determination; and
- (c) is to be given effect to by the parties unless and until it is reversed, overturned or otherwise changed under the procedure in the following subclauses.

20.12 Litigation

If a notice of appeal is given under clause 20.11(b)(iv), or if the parties are unable to resolve the dispute within the timeframe set out in clause 20.2(b), then either party may commence proceedings in relation to the dispute.

20.13 Summary relief

Nothing herein will prejudice the right of a party to institute proceedings to seek injunctive or urgent declaratory relief.

21 Disengagement

21.1 Application

This clause 21 applies whenever Services are to be terminated. This includes:

- (a) 2 months before the Expiry Date or the expiry of a previous Further Term (as applicable); or
- (b) if Services are terminated before that date, the date on which the City issues a termination notice in respect of the Contract.

21.2 Objectives

The purpose of the Disengagement Services is to:

- (c) enable the City or its nominee to perform the Services from the end of the Disengagement Period; and
- (d) eliminate or minimise any disruption to the Services (including the Disengagement Services) as a result of the transition of the Services from the Service Provider to the City or its nominee.

21.3 Requirements for Disengagement

- (a) The Service Provider must ensure that as part of the Disengagement Services:
 - (i) the City's right to use the Materials, equipment and parts provided by the Service Provider to the City under the Contract and the Service Provider's Material continues following the Disengagement Period at no cost to the City (other than agreed maintenance and support fees);
 - (ii) it makes available to the City all of its Personnel and provides all resources necessary to maintain the provision of the Services while the Disengagement Services are being performed;
 - (iii) there is no degradation of Service Levels or quality of service during the Disengagement Period; and
 - (iv) there is no interruption to the Services during the Disengagement Period.
- (b) The Service Provider must use best endeavours to ensure that the Disengagement Services are completed by the end of the Disengagement Period.

21.4 Implementation of Disengagement

- (a) The Service Provider must ensure that, at all times during the Term, on 30 days' notice it is able to deploy all necessary resources to complete the Disengagement Services.
- (b) If clause 21 applies, the Service Provider must, unless directed otherwise by the Contract Manager:
 - (i) do all things necessary to effect the Disengagement Services;
 - (ii) at the Service Provider's expense, immediately deliver to the City or a third party nominated by the City all Developed Material;
 - (iii) do all things reasonably necessary to deliver all partially completed Developed Material to the City; and
 - (iv) ensure that all permitted subcontractors comply with this clause 21.

- (c) The Service Provider acknowledges all Service Levels and Service Level Rights apply during the Disengagement Period.
- (d) The fees payable for the Disengagement Services will be the same as, or calculated in the same manner as, the fees in effect immediately prior to the termination or expiry of the Contract.

21.5 Third party services

- (a) The Service Provider will make available to the City or its nominee the contact details of any party providing third party services utilised by the Service Provider in the performance of the Services during the Disengagement Period.

21.6 Assistance to third parties

If the City appoints a third party to assume its role in relation to any or all of the Services, the Service Provider must provide all reasonable assistance to that third party during the Disengagement Period and in performing the Disengagement Services.

22 General

22.1 Governing law

- (a) This Contract is governed by the law in force in New South Wales.
- (b) Each party submits to the exclusive jurisdiction of the courts in New South Wales, and any court that may hear appeals from those courts, for any proceedings in connection with the Contract.

22.2 Entire agreement

This Contract contains the entire agreement between the parties about its subject matter. Any previous understanding, agreement, representation or promise relating to that subject matter is replaced by the Contract and has no further effect.

22.3 Council acting as an Authority

- (a) Nothing in the Contract will fetter, limit or restrict in any way the discharge by the City of its obligations or rights under any legislative requirements or as an authority.
- (b) The Service Provider will deal with the City as it would with any other authority with respect to obtaining any permits, approvals or licences.

22.4 **Exclusion of Part 4 of the Civil Liability Act 2002 (NSW)**

In determining the rights, obligations and liabilities of the parties in any claim arising in relation to the Contract the operation of Part 4 of the *Civil Liability Act 2002* (NSW) which would otherwise be applicable is expressly excluded to the maximum extent permitted by law.

22.5 **Notices**

- (a) A notice, consent or other communication under the Contract is only effective if it is in writing, signed and either left at the addressee's address or sent to the addressee by mail or email.
- (b) A notice, consent or other communication that complies with this clause is regarded as given and received:
 - (i) if it is delivered, when it has been received by a representative of the addressee at the addressee's address;
 - (ii) if it is sent by mail, 5 Business Days after it is posted; or
 - (iii) if it is sent by email, at the time sent, unless the sender is notified, by a system or person involved in the delivery of the email, that the email was not successfully sent.
- (c) For the purpose of this clause 22.5, the address and email address of the City and the address and email address of the Service Provider are as set out at Item 20 and Item 21 respectively, or, in either case, another address or email address of which that party has given notice to the other party as its address for notices.
- (d) Notices referred to in the Contract must be given within the time provided for in the Contract. If the Service Provider fails to give a notice in that time, then:
 - (i) the City will not be liable upon any Claim by the Service Provider; and
 - (ii) the Service Provider will be absolutely barred from making any claim against the City,arising out of, or in any way in connection with, the relevant act, default, omission, direction, fact, matter or thing (as the case may be) in respect of that Claim or Dispute.

22.6 **Liability for expenses**

Each party must pay its own expenses incurred in negotiating and executing the Contract.

22.7 **Survival of clauses**

Clauses 1.2 (Interpretation), 3 (Provision of Services), 16.1 (Indemnity), 17 (Insurance), 18 (Confidentiality, privacy and related matters), 20 (Dispute

Resolution), 21 (Disengagement) and 22 (General) survive the expiry or earlier termination of the Contract, together with any other term which by its nature is intended to do so.

22.8 Counterparts

This Contract may be executed in counterparts and together they constitute one document.

22.9 Attorneys

Each person who executes the Contract on behalf of a party under a power of attorney declares that he or she is not aware of any fact or circumstance that might affect his or her authority to do so under that power of attorney.

Schedule 1 - Contract information

Item	Description	Contract reference	Details	
1.	Contract Manager	Clause 1.1	Head of Business Operations, Major Events and Festivals, Council of the City of Sydney	
2.	Expiry Date	Clause 1.1	31 January 2023	
3.	Information Documents	Clause 1.1	Nil	
4.	Key Personnel	Clause 1.1	<u>Role /</u> <u>Qualification</u> Director National Project and Design Manager Senior Project Manager Design and Project Director General Manager	
5.	Operations Manager	Clause 1.1		
6.	Work Site	Clause 1.1	Any location where the Services are required to be performed within the Contract Service Area, as more particularly described in the Specifications.	
7.	Quality assurance system	Clause 3.9	The Quality Management Policy Statement to be provided to the City before the commencement of any Services.	
8.	WHS Returnable Documents	Clauses 1.1 and 3.10.	Document Description Signed Acknowledgement Form of the City of Sydney Contractor Safety Book	Due Date Before the commencement of any Services

Item	Description	Contract reference	Details	
			Signed Acknowledgement Form of the City of Sydney Town Hall Hirer and Contractor Induction Handbook	Before the commencement of any Services
			WHS Management Plan	21 days prior to commencement of Services
			Any other document which the City considers relevant to the safe delivery of the Services	As required
9.	Service Provider's Security	Clause 5	10% Bank Guarantee for year 1 of Contract (unconditional)	
10.	Limitation on providing Work Site access	Clause 9.1(a)	None	
11.	Additional period of time the City is permitted to access records and documents	Clause 11.3(a)(ii)	7 years	
12.	Maximum daily amount of costs and expenses for suspension	Clause 12.5(d)(iii)	<i>nil</i>	
13.	Frequency of invoices	Clause 13.1(a)	Refer Annexure C - Payment Schedule	
14.	Public liability Insurance	Clause 17.1(a)(i)(A)	\$20 million per occurrence and unlimited in the aggregate	
	Professional indemnity insurance	Clause 17.1(a)(ii)	At least \$5 million.	
15.	Insurance requirements for Subcontractors	Clause 17.1(c)	The insurances set out in clause 17.1(a) as relevant to that part of the Services undertaken by the relevant Subcontractor.	

Item	Description	Contract reference	Details
16.	Further Term	Clause 19.2	N/A
17.	Period of notice for termination for convenience	Clause 19.3(a)	60 Business Days
18.	Representative for senior negotiations	Clause 20.2	City: Executive Producer, Major Festivals and Events Unit Service Provider: [REDACTED]
19.	Threshold value for whether an expert's determination is final and binding	Clause 20.11(b)(iii)	[REDACTED]
20.	Address of the City (including the Contract Manager) for service of notices	Clause 22.5(c)	Address: Council of the City of Sydney, Town Hall 483 George Street Sydney NSW 2000
21.	Address of the Service Provider for service of notices	Clause 22.5(c)	Attention: [REDACTED] Address: [REDACTED] Email: [REDACTED]

Schedule 2 - Fee

(Clause 1.1)

Schedule of Lump Sum Rates

Refer Annexure B – Schedule of Rates

Schedule 3 - Specifications

(Clause 1.1)

Refer Annexure A – Work Schedule

Schedule 4 – Contract Service Area

(clause 1.1)

City of Sydney LGA Boundary Map



Schedule 5 – Statutory Declaration

(Clause 13.1(b)(iii))

_____ of _____, do solemnly and sincerely declare as follows:

7. I am Director of Visual Inspirations Australia Pty Ltd ("**Service Provider**").
8. The Service Provider has a contract with the Council of the City of Sydney (ABN 22 636 550 790) to Sydney Christmas Infrastructure – Manufacturing and Installation dated **xxx** ("**Contract**").
9. All subcontractors and suppliers engaged by the Service Provider with respect to services under the Contract have been paid all moneys due and payable to them in respect of services carried out for or materials supplied to the Service Provider.
10. Attached to and forming part of this declaration is a subcontractor's statement given by the Service Provider in its capacity as 'subcontractor' (as that term is defined in the *Workers Compensation Act 1987* (NSW), *Payroll Tax Act 2007* (NSW) and *Industrial Relations Act 1996* (NSW) ("**Acts**") which is a written statement:
 - (a) under section 175B of the *Workers Compensation Act 1987* (NSW), in the form and providing the detail required by that legislation;
 - (b) under Schedule 2 section 18 of the *Payroll Tax Act 2007* (NSW), in the form and providing the detail required by that legislation; and
 - (c) under section 127 of the *Industrial Relations Act 1996* (NSW), in the form and providing the detail required by that legislation.
11. The matters which are contained in this declaration and the attached subcontractor's statement are true.
12. If the Service Provider has subcontractors, the Service Provider has received from each of those subcontractors a statutory declaration and subcontractor's statement in equivalent terms to this declaration (made no earlier than 14 days before the date of this declaration).
13. All statutory declarations and subcontractor's statements received by the Service Provider from subcontractors referred to in clause 6 were:
 - (a) given to the Service Provider in its capacity as 'principal contractor' as defined in the Acts; and
 - (b) given by the subcontractors in their capacity as 'subcontractors' as defined in the Acts.
14. The period of the Contract covered by this declaration and the attached subcontractor's statement is from **27 July 2018** to **31 January 2023**.

And I make this solemn declaration conscientiously believing the same to be true, and by virtue of the *Oaths Act 1900* (NSW).

Declared at _____ on _____
(place where declaration made) (date of declaration)
by _____

Signature of person making the declaration

Name of person making the declaration

in the presence of an authorised witness, who states:

I, **[name of authorised witness]**, a **[qualification to be authorised witness]**, certify the following matters concerning the making of this statutory declaration by the person who made it:

- (a) **Alt**[I saw the face of the person. / I did not see the face of the person because the person was wearing a face covering, but I am satisfied that the person had a special justification for not removing the covering].
- (b) **Alt**[I have known the person for at least 12 months. / I have confirmed the person's identity using an identification document and the document I relied on was [describe identification document relied on]].

Signature of authorised witness

Date:

**SUBCONTRACTOR'S STATEMENT
REGARDING WORKER'S COMPENSATION, PAYROLL TAX AND
REMUNERATION (Note 1 – see back of form)**

For the purposes of this Statement a "subcontractor" is a person (or other legal entity) that has entered into a contract with a "principal contractor" to carry out work.

This Statement must be signed by a "subcontractor" (or by a person who is authorised, or held out as being authorised, to sign the statement by the subcontractor) referred to in any of s175B *Workers Compensation Act 1987*, Schedule 2 Part 5 *Payroll Tax Act 2007*, and s127 *Industrial Relations Act 1996* where the "subcontractor" has employed or engaged workers or subcontractors during the period of the contract to which the form applies under the relevant Act(s).

The signed Statement is to be submitted to the relevant principal contractor.

SUBCONTRACTOR'S STATEMENT (Refer to the back of this form for Notes, period of Statement retention, and Offences under various Acts.

Subcontractor: ABN:
(Business name)

of

.....
(Address of Subcontractor)

has entered into a contract with ABN:
(Business name of principal contractor)

Contract number/identifier (Note 2)

This Statement applies for work between:/...../..... and/...../..... inclusive, (Note 3)

subject of the payment claim dated:/...../..... (Note 4)

I, a Director or a person authorised by the Subcontractor on whose behalf this declaration is made, hereby declare that I am in a position to know the truth of the matters which are contained in this Subcontractor's Statement and declare the following to the best of my knowledge and belief:

(a) The abovementioned Subcontractor has either employed or engaged workers or subcontractors during the above period of this contract. Tick [] if true and comply with (b) to (g) below, as applicable. If it is not the case that workers or subcontractors are involved or you are an exempt employer for workers compensation purposes tick [] and only complete (f) and (g) below. You must tick one box. (Note 5)

(b) All workers compensation insurance premiums payable by the Subcontractor in respect of the work done under the contract have been paid. The Certificate of Currency for that insurance is attached and is dated/...../..... (Note 6)

(c) All remuneration payable to relevant employees for work under the contract for the above period has been paid. (Note 7)

(d) Where the Subcontractor is required to be registered as an employer under the *Payroll Tax Act 2007*, the Subcontractor has paid all payroll tax due in respect of employees who performed work under the contract, as required at the date of this Subcontractor's Statement. (Note 8)

(e) Where the Subcontractor is also a principal contractor in connection with the work, the Subcontractor has in its capacity of principal contractor been given a written Subcontractor's Statement by its subcontractor(s) in connection with that work for the period stated above. (Note 9)

(f) Signature Full name (Note 10)

(g) Position/Title Date/...../.....

NOTE: Where required above, this Statement must be accompanied by the relevant Certificate of Currency to comply with section 175B of the *Workers Compensation Act 1987*.

1. This form is prepared for the purpose of section 175B of the *Workers Compensation Act 1987*, Schedule 2 Part 5 *Payroll Tax Act 2007* and section 127 of the *Industrial Relation Act 1996*. If this form is completed in accordance with these provisions, a principal contractor is relieved of liability for workers compensation premiums, payroll tax and remuneration payable by the subcontractor.

A principal contractor can be generally defined to include any person who has entered into a contract for the carrying out of work by another person (or other legal entity called **the subcontractor**) and where employees of the subcontractor are engaged in carrying out the work which is in connection with the principal contractor's business.
2. For the purpose of this Subcontractor's Statement, a principal contractor is a person (or other legal entity), who has entered into a contract with another person (or other legal entity) referred to as the subcontractor, and employees/workers of that subcontractor will perform the work under contract. The work must be connected to the business undertaking of the principal contractor.
3. Provide the unique contract number, title, or other information that identifies the contract.
4. In order to meet the requirements of s 127 *Industrial Relations Act 1996*, a statement in relation to remuneration must state the period to which the statement relates. For sequential Statements ensure that the dates provide continuous coverage.

Section 127(6) of the Industrial Relations Act 1996 defines remuneration 'as remuneration or other amounts payable to relevant employees by legislation, or under an industrial instrument, in connection with work done by the employees.'

Section 127(11) of the Industrial Relations Act 1996 states 'to avoid doubt, this section extends to a principal contractor who is the owner or occupier of a building for the carrying out of work in connection with the building so long as the building is owned or occupied by the principal contractor in connection with a business undertaking of the principal contractor.'
5. Provide the date of the most recent payment claim.
6. For Workers Compensation purposes an exempt employer is an employer who pays less than \$7500 annually, who does not employ an apprentice or trainee and is not a member of a group.
7. In completing the Subcontractor's Statement, a subcontractor declares that workers compensation insurance premiums payable up to and including the date(s) on the Statement have been paid, and all premiums owing during the term of the contract will be paid.
8. In completing the Subcontractor's Statement, a subcontractor declares that all remuneration payable to relevant employees for work under the contract has been paid.
9. In completing the Subcontractor's Statement, a subcontractor declares that all payroll tax payable relating to the work undertaken has been paid.
10. It is important to note that a business could be both a subcontractor and a principal contractor, if a business 'in turn' engages subcontractors to carry out the work. If your business engages a subcontractor you are to also obtain Subcontractor's Statements from your subcontractors.

Statement Retention

The principal contractor receiving a Subcontractor's Statement must keep a copy of the Statement for the periods stated in the respective legislation. This is currently up to seven years.

Offences in respect of a false Statement

In terms of s 127 of the Industrial Relations Act 1996, a person who gives the principal contractor a written statement knowing it to be false is guilty of an offence if:

- (a) the person is the subcontractor;
- (b) the person is authorised by the subcontractor to give the statement on behalf of the subcontractor;
or
- (c) the person holds out or represents that the person is authorised by the subcontractor to give the statement on behalf of the subcontractor.

In terms of s 175B of the *Workers Compensation Act* and clause 18 of Schedule 2 of the *Payroll Tax Act 2007* a person who gives the principal contractor a written statement knowing it to be false is guilty of an offence.

Further Information

For more information, visit the WorkerCover website www.workcover.nsw.gov.au, Office of State Revenue website www.osr.nsw.gov.au, or Office of Industrial Relations, Department of Commerce website www.commerce.nsw.gov.au. Copies of the *Workers Compensation Act 1987*, the *Payroll Tax Act 2007* and the *Industrial Relations Act 1996* can be found at www.legislation.nsw.gov.au.

Schedule 6 – Expert determination agreement

(Clause 20.10)

THIS AGREEMENT is made on 20.....

BETWEEN Council of the City of Sydney (ABN 22 636 550 790) ("**Principal**")

AND ("**Visual Inspirations Australia Pty Ltd** ")

AND ("**Expert**")

BACKGROUND

- A. The Principal and the Service Provider have entered into the Contract.
- B. The Principal and the Service Provider have agreed to refer the Dispute for determination by the Expert acting as an expert and not as an arbitrator.

TERMS

1. DEFINITIONS

"**Contract**" means the contract entered into between the Principal and the Service Provider described in Item 1 of Annexure 1.

"**Dispute**" means the dispute or difference described in Item 2 of Annexure 1.

2. DECIDE ON DISPUTES

The Expert must:

- (a) determine the Dispute and not any other matter; and
- (b) in discharging his or her obligations under this agreement, abide and be bound by the provisions of the Contract.

3. PROCEDURES

Subject to clause 4, the Expert must determine the Dispute in accordance with the procedures set out in Item 3 of Annexure 1 unless varied, amended or otherwise changed by agreement between the Principal, Service Provider and Expert.

4. EXPERT'S POWERS

The Expert must in discharging his or her obligations under this agreement:

- (a) act as an expert and not as an arbitrator;
- (b) proceed in such manner as the Expert thinks fit without being bound to observe the rules of evidence but subject to the rules of natural justice;
- (c) take into consideration all documents, information and other written and oral material that the Principal and Service Provider place before the Expert

including documents, information and material relating to the facts the subject of the Dispute and to arguments and submissions upon the matters the subject of the Dispute;

- (d) not be expected or required to obtain or refer to any other documents, information or material but may do so if he or she so desires;
- (e) giving reasons, make a decision in writing stating the determination of the Dispute; and
- (f) act with expedition with a view to making a decision within two weeks of the date of this agreement.

5. MEET WITH PARTIES

If as part of the procedures under clause 3, the Expert meets with the Principal and Service Provider, the Principal and Service Provider agree to be bound by such procedural directions as may be given by the Expert both in preparation for, and during the course of, the meeting.

The parties agree that any such meeting or meetings are not in any way to be regarded as a formal hearing.

6. REMUNERATION

In consideration of the Expert performing his obligations under this agreement the parties shall pay to the Expert the amount of set out in Item 4 of Annexure 1 or such other amount as is agreed between the Principal, Service Provider and Expert.

7. CONFIDENTIALITY

The Expert must not at any time, without the consent of both the Principal and Service Provider, disclose or suffer or permit his or her employees, consultants or agents to disclose to any person:

- (a) any details concerning the subject matter of the Dispute;
- (b) any of the contents of the Contract, this agreement or any other collateral or supplemental agreements or any of the commercial bases or any information relating to the negotiations concerning the same; or
- (c) any other information which may have come to the Expert's knowledge in the course of this agreement including information concerning the operations, dealings, transactions, contracts, commercial or financial arrangements or affairs of the Principal or Service Provider.

8. NATURE OF EXPERT'S ROLE

The Expert:

- (a) is to be independent from the Principal and Service Provider; and

- (b) without limitation, warrants that he or she has no conflict of interest in acting under this agreement.

9. **TERMINATION**

This agreement may be terminated by either the Principal or the Service Provider in any of the following events:

- (a) the Expert being declared of unsound mind or mentally ill;
- (b) the Expert being declared bankrupt;
- (c) the Expert committing any proven act of dishonesty or, by wilful act or omission or by gross neglect, behaving in a fashion clearly prejudicial to the interests of the Principal or the Service Provider;
- (d) the Expert failing to observe and fulfil any of the substantive terms of this agreement; or
- (e) the Expert being prevented by illness or incapacity from performing his or her obligations under this agreement.

10. **NOTICES**

All notices to be given to the Expert under this agreement will be deemed to be properly given if:

- (a) hand delivered to the Expert;
- (b) sent by certified or registered mail to the Expert's address set out in Item 5 of Annexure 1 or to such other address as the Expert may from time to time advise by notice in writing; or
- (c) forwarded by facsimile transmission to the Expert's facsimile number as set out in Item 6 of Annexure 1 or to such other facsimile number as the Expert may from time to time advise by notice in writing.

11. **GOVERNING LAW**

Unless specified otherwise in Item 7 of Annexure 1, this agreement is to be construed for all purposes in accordance with the laws applying to the Contract.

12. **INCONSISTENCY BETWEEN AGREEMENT AND CONTRACT**

If there is any inconsistency between the terms of this agreement and the Contract, then unless otherwise specified in Item 8 of Annexure 1 the terms of the Contract will prevail.

SIGNED by the **PRINCIPAL**
in the presence of:

)
)

(Signature of Witness)

(Name Of Witness in Full)

SIGNED by the **SERVICE PROVIDER**
in the presence of:

)
)

(Signature of Witness)

(Name Of Witness in Full)

SIGNED by the **EXPERT**
in the presence of:

)
)

(Signature of Witness)

(Name Of Witness in Full)

Item 1: (Contract):

Item 2: (Dispute):

Item 3: (Procedures):

Item 4: (Expert's Hourly Remuneration):

Item 5: (Expert's Address):

Item 6: (Expert's Facsimile):

Item 7: (Governing law):

Item 8: (Inconsistency):

Annexure A – Work Schedule

Services and Specifications

SERVICE ELEMENTS

The Service Provider is required to manufacture, install, dismantle and maintain the City's Christmas trees and decorative installations (infrastructure) at various locations in the City of Sydney local government area.

There are three (3) key elements that make up the Services over the life of the Contract, namely:

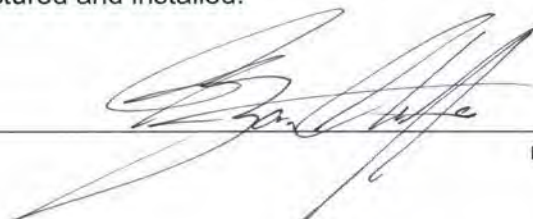
- a) manufacturing the new suite of Sydney Christmas infrastructure;
- b) installing and dismantling both the new and existing suites of Sydney Christmas infrastructure; and
- c) maintaining both the new and existing suites of Sydney Christmas infrastructure.

The City's suite of Christmas trees and decorative installations (infrastructure) consists of the following elements;

- 1. Martin Place Christmas Tree, incorporating lighting solution and protective fence;
- 2. Eight (8) Outdoor Christmas Trees around the local government area comprising: Green Square Town Centre, Hyde Park, Kings Cross, Pyrmont, Customs House, Sydney Town Hall, Taylor Square and St Mary's Cathedral;
- 3. Eight (8) sets of street pole decorations in the City's CBD and Villages: Green Square Town Centre, Erskineville Road (Erskineville), Crown Street (Surry Hills), Redfern Street (Redfern), Darlinghurst Road (Kings Cross), Glebe Point Road (Glebe), George Street (CBD) and Martin Place (CBD);
- 4. Fifteen (15) Indoor Christmas trees within the City's Library and Customer Service Centres;
- 5. Star decorative installation in Green Square Library Entry;
- 6. Two (2) light canopies in Pitt Street Mall and Martin Place (stage 2, between Pitt and Castlereagh Streets) and;
- 7. Gobo light projections in George Street, CBD.

The above elements and Work Sites are subject to change, at the City's discretion.

Refer to *Table 1 - Installation Schedule of New Sydney Christmas Infrastructure Elements*, for a summary of when trees and decorative installations from the City's new suite of infrastructure will be manufactured and installed.



GENERAL PROGRAM OUTLINE

Table 1 –Installation Schedule of New Sydney Christmas Infrastructure Elements

Infrastructure Element	2018	2019	2020	2021	2022
TREES					
Martin Place Stage 1, Sydney CBD (24m tree)	NEW	NEW	NEW	NEW	NEW
Green Square Town Centre (12m tree)	NEW	NEW	NEW	NEW	NEW
Taylor Square, Darlinghurst (8m tree plus base)	NEW	NEW	NEW	NEW	NEW
Customs House Forecourt, Circular Quay (initially 8m tree, then replaced by new 9m tree)	Ex	NEW	NEW	NEW	NEW
St Mary's Cathedral Forecourt, Sydney CBD (initially 8m tree, then replaced by new 9m tree)	Ex	NEW	NEW	NEW	NEW
Town Hall Balcony, Sydney CBD (8m tree)	Ex	NEW	NEW	NEW	NEW
Hyde Park north, Sydney CBD (initially 8m tree, then replaced by new 9m tree)	Ex	NEW	NEW	NEW	NEW
Union Square, Harris Street, Pyrmont (initially 8m tree, then replaced by new 9m tree)	Ex	NEW	NEW	NEW	NEW
Fitzroy Gardens, Kings Cross (initially 8m tree, then replaced by new 9m tree)	Ex	NEW	NEW	NEW	NEW
City Libraries and Customer Service Centres (CSC's) (15 x 1.8m-2.4m trees)	Ex	Ex	NEW	NEW	NEW
DECORATIVE INSTALLATIONS					
Martin Place Stage 2, Sydney CBD (Light Canopy)	NEW	NEW	NEW	NEW	NEW
Martin Place, Sydney CBD (20 single-sided Smart Pole decorations)	NEW	NEW	NEW	NEW	NEW
George Street, Sydney CBD (40 single-sided Smart Pole decorations)	n/a	NEW	NEW	NEW	NEW
George Street, Sydney CBD (Gobo projections)	n/a	NEW	NEW	NEW	NEW
Pitt Street Mall, Sydney CBD (light canopy with 12 stars suspended from existing catenary tube lights)	n/a	NEW	NEW	NEW	NEW
Green Square Town Centre (20 single-sided Smart Pole decorations)	NEW	NEW	NEW	NEW	NEW
Green Square Library Entry (1 hanging star)	NEW	NEW	NEW	NEW	NEW
Erskineville Road, Erskineville (7 Smart Pole decorations)	Ex	Ex	NEW	NEW	NEW
Crown Street, Surry Hills (7 Smart Pole decorations)	Ex	Ex	NEW	NEW	NEW
Redfern Street, Redfern (24 Smart Pole decorations)	Ex	Ex	Ex	NEW	NEW
Darlinghurst Road, Kings Cross (14 Smart Pole decorations)	Ex	Ex	Ex	NEW	NEW
Glebe Point Road, Glebe (15 Smart Pole decorations)	Ex	Ex	Ex	NEW	NEW

Table 1 Key:

Existing Sydney Christmas Infrastructure	Ex
New Sydney Christmas Infrastructure	NEW
Not applicable	n/a

1. MARTIN PLACE CHRISTMAS TREE

Martin Place tree – Sub-Frame and Foliage

- Frame Structure to be manufactured per the RFP engineering drawings with a minor alteration to accommodate a different branching system.
- The RFP branch system will leave gaps and undulations in the foliage. Manufacture should be in accordance with the Service Provider's branch variation, detailed in Attachment 3 - *A. RFP 2018-2022 Christmas Infrastructure - Manufacture Proposal MP and GSq tree.jpg*
- Hook foliage branch will be manufactured specific to the Martin Place tree sub-frame
- Deluxe foliage is a mixture of three tip types; Mold injected PT, Wired PET and an upgraded PVC
- Foliage is removable from sub-frame

Martin Place tree – Decorations

150 x 850mm Stainless Steel Baubles

120 x 550mm Stainless Steel Baubles

50 x 300mm Stainless Steel Baubles

- 850mm balls to be in TOKO beach ball designs with 550mm and 300mm to be solid colour balls
- *850mm Baubles finished in 6 x beach ball Patterns*
- *550mm & 300mm solid colour balls in the three colours from the beach ball patterns (Red, White & Green)*

15 x Animatronic Wombats

- Overseas "skin" production with local fabrication of animatronic elements.
- Wombats to extend up the tree sub frame to a point that is accessible for servicing and will fit the track structure outlined in the RFP.
- Coverings for the wombat housings to be solid doors. Research & Development time required to ensure feasibility of complete foliage coverage.
- Wombat program will include the use of the City's existing 24-channel controller.
- Wombat platforms to be placed between floors 2-5.

1 x 2.4m Treetop Star

- Colour changing programmable lights. This will run on the same program as the digital lighting of the tree foliage.
- Final construction method and materials TBC

300 linear metres of Sinimay Ribbon

1,100 x Native Australian Floral Decorations

Martin Place Tree - Lighting

Martin Place - Full Digital RGB colour changing Lighting System

MPT lights to be full RGB digital lighting, to allow limitless future programming for the tree, without needing to change the lights or the cost to strip and re-light the foliage. The tree in season will be programmed per the RFP design (alternating red/green in slow fade with warm white base layer).

Then for the launch the tree will have a separate program, a digital, full RGB light show. Effects like highlighting the wombat holes, alternating colours and patterns will be incorporated including twinkling, chasing, fading and pattern effects. Effects and final show will be approved in consultation with the event management and COS creative representatives.

Specifications

- 40,000 x Individually controlled Digital RGB Colour changing high intensity mini lights
- 2,000 x High Intensity Strobe Lights
- Digital RGB Colour changing Star
- Complete power distribution system and cabling with existing main 32amp distribution centre used in 2017

Martin Place Tree – Fence

The Martin Place tree fence will be the same structure as supplied in 2017, with the panel artwork re-designed to reflect the City's new Sydney Christmas Visual Identity.

Specifications

- 13m Diameter metal fence with powder coat finish
- Fabricated from 22 panels of 2000mm W x 1200mm H
- The fence is securely bolted together – panel to panel
- The fence sits close to the base of the new tree – the reach distance is close for the general public to the tree, however there is a 1200mm gap to allow visibility to the tree, while creating a physical barrier.
- Polycarbonate sheet panels are skinned in a solid one piece vinyl graphic with the City's branded design – sample imagery shown below but yet to be finalised – the City to provide artwork and the Service Provider to print and adhere to fence. Includes 1 x set of printing and application.

SPECIFIC REQUIREMENTS FOR THE MARTIN PLACE CHRISTMAS TREE

Specific to the delivery of the Martin Place Christmas tree, the Service Provider must:

- Implement and provide ongoing support for lighting solution. Scoping must occur at least three (3) months prior to the event in collaboration with the City, and documented via a scope of works. The City to approve Scope of Work document;
- Transport to Martin Place all structural, electrical and decorative elements of the Christmas Tree in close consultation with City staff with particular consideration of Work Site access restrictions, namely the current Light Rail works on George Street and the proposed Martin Place upgrade works;
- Check and make any necessary repairs to the tree structure and base;

- Ensure fencing structure around tree is safe and secure with suitable fixings on corners / edges;
- Provide a suitable and exciting lighting design which utilises the tree-top star and all lightable elements which enhances the tree and provides an adequate spectacle in daylight and at night time, including programming;
- Install the tree including installation of all flooring and installation of guys and bracing;
- Install decorations (including wombats and floral decorations), foliage, tree-top star, and lighting;
- Coordinate and ensure power supply connection to the Smart Pole;
- Check and rectify transformers, lights, distribution boards and Smart Poles by the City's nominated certified Electrical Contractor or Energy Australia Electrician;
- Provide sufficient security personnel on site during I&D phase;
- Commission and test the lighting of the tree as required by City staff;
- Provide engineering certification once tree is erected;
- Be clear of the Work Site and ensure a clean presentable Work Site by midnight the Monday prior to the Martin Place Tree Lighting Event;
- Insurance certification for installation and dismantling of the tree, allowing for the tree being covered by the City's own insurances (if certified by a qualified Engineer) during show period;
- Ensure the suitable and environmentally responsible disposal of waste on site generated during I&D phases;
- Print and install City designed fencing scrim on the fencing panels around the tree I&D Work Site. Printing cost to be included within response; and
- Provide a lighting operator/programmer to attend the Media reveal/showcase evening, the Martin Place Tree Lighting Event rehearsal and the Martin Place Tree Lighting Event;
- Maintenance provision to include replacement of wombat skins after each Christmas season, to ensure a look fresh and to negate damage to the fur, as a result UV rays and moisture. The City reserves the right to request the Service Provider, when replacing the skins, to alter this to a different species of Australian fauna. If a different species of Australian fauna is nominated by the City, the Service Provider will provide the City with the costs associated with the development and production of a new animatronic design;
- Wombats to be well hidden within the foliage, to ensure the public cannot see them (unless they are in use). Coverings for the wombat housings to be solid doors. Research & Development time required to ensure feasibility of complete foliage coverage;
- Respect the Martin Place Cenotaph and its' surrounds, ensuring the tree compound does not encroach upon the Returned Services League of New South Wales designated boundaries and by allowing provision to cease work during any activities at the Cenotaph, as scheduled by the Returned Services League of New South Wales.

2. OUTDOOR CHRISTMAS TREES

For Christmas 2018, the City requires the re-display of six (6) existing City outdoor Christmas trees and the manufacture of two (2) new Christmas trees – for Green Square Town Centre and Taylor Square. Specifications relating to each tree and its location are detailed below.

Refer to *Table 1 - Installation Schedule of New Sydney Christmas Infrastructure Elements* on page 60 for a summary of when the City's remaining six (6) outdoor Christmas trees will be replaced with newly manufactured trees from the City's new suite of Sydney Christmas infrastructure.

2a. Green Square Town Centre

New 12m high tree with pre-installed decorations and lighting and one static Wombat, in keeping with the theme for the City's new suite of Sydney Christmas infrastructure.

2a. Green Square Town Centre – Sub-Frame and Foliage

- Frame Structure to be manufactured to new engineering specification with an alteration to accommodate a different branching system.
- Service provider to supply new engineering drawings and certification.
- The RFP branch system will leave gaps and undulations in the foliage. Service providers branch variation to be the same branch style as the Martin Place tree detailed in Attachment 3 - *A. RFP 2018-2022 Christmas Infrastructure - Manufacture Proposal MP and GSq tree.jpg*
- Hook foliage branch will be manufactured specific to the Green Square tree sub-frame
- Deluxe foliage is a mixture of three tip types; Mold injected PT, Wired PET and an upgraded PVC
- Foliage is removable from sub-frame

2a. Green Square Town Centre – Decorations

90 x 200mm Plastic Baubles

200 x 300mm Plastic Baubles

- Plastic balls to be in TOKO beach ball designs

1 x 800mm Static Half Wombat

- Overseas wombat production.

1 x 1.2m Treetop Star

- Static Illuminated Star (Warm White LED)
- Final construction TBC - *Ref Scoundrel Sydney Christmas Infrastructure Design pg. 112*

150 linear metre of Sinimay Ribbon

400 x Native Australian Floral Decorations

2a. Green Square Town Centre - Lighting

The lighting will be Warm White LEDs with a 20% white flash only.

12m Green Square Tree Lighting Specification

- ~10,500 x Warm White Mini/fairy lights with 20% twinkle bulbs

Note: for full specifications on new outdoor trees 2b, 2c, 2d, 2e and 2f, refer to *NEW OUTDOOR TREE SPECIFICATION (2b, 2c, 2d, 2e, 2f)* on page 66.

2b. Hyde Park North

Existing 8m high tree with pre-installed decorations and lighting

Power: available power box within the nearby garden bed. Access to power to be arranged by the City.

To be replaced for Sydney Christmas 2019 with a new 9m high tree with pre-installed decorations and lighting, in keeping with the theme for the City's new suite of Sydney Christmas infrastructure. The tree will include one (static) Wombat.

2c. Fitzroy Gardens, Kings Cross

Existing 8m high tree with pre-installed decorations and lighting

Power: available from nearby light pole within the park.

To be replaced for Sydney Christmas 2019 with a new 9m high tree with pre-installed decorations and lighting, in keeping with the theme for the City's new suite of Sydney Christmas infrastructure. The tree will include one (static) Wombat.

2d. Union Square, Harris Street, Pyrmont

Existing 8m high tree with pre-installed decorations and lighting

Power: available from the adjacent Smart Pole in Harris Street

To be replaced for Sydney Christmas 2019 with a new 9m high tree with pre-installed decorations and lighting, in keeping with the theme for the City's new suite of Sydney Christmas infrastructure. The tree will include one (static) Wombat.

2e. Customs House Square, Circular Quay

Existing 8m high tree with pre-installed decorations and lighting

Power: available from nearby Smart Poles within the forecourt and access is to be arranged with the City. Power cables must be safely suspended overhead and clear truck/vehicle movements through the square.

To be replaced for Sydney Christmas 2019 with a new 9m high tree with pre-installed decorations and lighting, in keeping with the theme for the City's new suite of Sydney Christmas infrastructure. The tree will include one (static) Wombat.

2f. St Mary's Cathedral Forecourt

Existing 8m high tree with pre-installed decorations and lighting

Power: available from the forecourt. Access to power to be arranged with the City.

To be replaced for Sydney Christmas 2019 with a new 9m high tree with pre-installed decorations and lighting, in keeping with the theme for the City's new suite of Sydney Christmas infrastructure. The tree will include one (static) Wombat.

NEW OUTDOOR TREE SPECIFICATION

This following specification applies to new Christmas Trees 2b, 2c, 2d, 2e, 2f above

Outdoor Tree - Sub-Frame and Foliage

- Frame Structure to be manufactured to new engineering specification of a 'Panel' Style Tree (~8.1m High Frame and addition of treetop star takes it to ~9m overall). Service provider to supply new engineering drawings and certification.
- Tree frame and foliage detailed in Attachment 5 - A. *RFP 2018-2022 Christmas Infrastructure - Manufacture Proposal village trees.jpg*
- Deluxe foliage is a mixture of three tip types; Mold injected PT, Wired PET and an upgraded PVC

Outdoor Tree - Decorations

80 x 200mm Plastic Baubles

90 x 300mm Plastic Baubles

- Plastic balls to be in TOKO beach ball designs

1 x 800mm Static Half Wombat

- Overseas wombat production.

1 x 1.2m Treetop Star

- Static Illuminated Star (Warm White LED)
- Final construction TBC - *Ref Scoundrel Sydney Christmas Infrastructure Design pg. 112*

90 linear metres of Sinimay Ribbon

224 x Native Australian Floral Decorations

2b, 2c, 2d, 2e, 2f - Outdoor Tree – Lighting

The lighting will be Warm White LEDs with a 20% white flash only.

9m City Tree Lighting Specification

- ~3,200 x Warm White Mini/fairy lights with 20% twinkle bulbs

2g. Sydney Town Hall portico

Existing 8m high tree with pre-installed decorations and lighting

Power: available from within Sydney Town Hall. Liaise with Transport for NSW's chosen Sydney Light Rail works contractor to arrange crane access.

To be replaced with a new 8m high tree which utilises the existing frame & foliage, and is re-dressed with pre-installed decorations and lighting, in keeping with the theme for the City's new suite of Sydney Christmas infrastructure. The tree will include one (static) Wombat. Refer to Table 1 - Installation Schedule of New Sydney Christmas Infrastructure Elements on page 60, for a summary of when this will be manufactured and installed.

New Sydney Town Hall portico tree - Sub-Frame and Foliage

- Frame (existing City asset) to be redressed with new decorations.
- Deluxe foliage is a mixture of three tip types; Mold injected PT, Wired PET and an upgraded PVC

New Sydney Town Hall portico tree - Decorations

50 x 200mm Plastic Baubles

90 x 300mm Plastic Baubles

- Plastic balls to be in TOKO beach ball designs

1 x 800mm Static Half Wombat

- Overseas wombat production.

1 x 1.2m Treetop Star

- Static Illuminated Star (Warm White LED)
- Final construction TBC - *Ref Scoundrel Sydney Christmas Infrastructure Design pg. 112*

70 linear metres of Sinimay Ribbon

128 x Native Australian Floral Decorations

New Sydney Town Hall portico tree – Lighting

The lighting will be Warm White LEDs with a 20% white flash only.

Town Hall Tree Lighting Specification

- ~3,200 x Warm White Mini/fairy lights with 20% twinkle bulbs

2h. Taylor Square North, Darlinghurst

New 9m high tree with purpose-built base to deter vandals. Tree has pre-installed decorations and lighting and one static Wombat, in keeping with the theme for the City's new suite of Sydney Christmas infrastructure.

Power: is located in a Smart Pole nearby. Power cables must be safely suspended overhead and clear truck/vehicle movements through the square.

Taylor Square - Sub-Frame and Foliage

- 'Panel' Style Tree Frame ~6m (H) plus Base ~2m (H) for ~8m Overall for tree frame on base. (Addition of treetop star takes it to ~9m overall)
- Tree frame and foliage detailed in Attachment 4 - A. RFP 2018-2022 Christmas Infrastructure - Manufacture Proposal TSq tree.jpg
- Deluxe foliage is a mixture of three tip types; Mold injected PT, Wired PET and an upgraded PVC

Taylor Square - Decorations

50 x 200mm Plastic Baubles

90 x 300mm Plastic Baubles

- Plastic balls to be in TOKO beach ball designs

1 x ~800mm Static Half Wombat

- Overseas wombat production.

1 x 1.2m Treetop Star

- Static Illuminated Star (Warm White LED)
- Final construction TBC- *Ref Scoundrel Sydney Christmas Infrastructure Design pg. 112*

70 linear metres of Sinimay Ribbon

128 x Native Australian Floral Decorations

Taylor Square - Lighting

The lighting will be Warm White LEDs with a 20% white flash only.

Taylor Square Tree Lighting Specification

- ~2,400 x Warm White Mini/fairy lights with 20% twinkle bulbs

DELIVERY OF OUTDOOR CHRISTMAS TREES

For the delivery of the eight (8) outdoor Christmas Trees, the Service Provider will:

- Install the tree in the nominated location during the nominated dates as per *Table 3 – Milestones and Critical Dates* on page 81.
- Install the existing and any new tree decorations
- Provide ongoing maintenance and monitoring of the tree during the display period
- Dismantle the tree at the nominated date as per *Table 3 – Milestones and Critical Dates* on page 81.
- Connect the tree to mains power safely without risk to general public. All connections to be waterproofed.
- Limit the use of cable trays where possible in favour of overhead suspended cabling. Any cable trays used must be low profile DDA trays.
- Advise the City of energy consumption of the tree
- Liaise / provide a schedule for the City's Project Manager to coordinate with the City's Living Colour floral displays contractor, to ensure a considered and tight schedule is maintained for the install of floral displays around trees.

3. STREET POLE DECORATIONS

The City's existing pole decorations are to be initially re-used in some locations, then replaced in subsequent years with new pole decorations. In other locations the City will only utilise new pole decorations.

Power is provided at the top of the Smart Poles or on Ausgrid poles. Service Provider to visually inspect poles 2 weeks prior to installation to ensure all are operational,

advise of specific power requirements and energy consumption of each unit for sign off during design development stage.

Connection of the pole decorations on Ausgrid poles requires the attendance of a Level 2 Linesman (Erskineville Road and Crown Street). The Service Provider is required to liaise with the Ausgrid Linesman (engaged by the City) for the installation and dismantle of pole decorations. The City will provide the Service Provider with the necessary information to enable the Service Provider to comply with this requirement.

Two variations of the new Pole Decorations are required to fit two different sized Smart Poles.

- Large: 3.5m Long (Frame shape per RFP Engineering Specification)
- Small: 2.5m Long (specifications to be finalised)

New Pole Motif Specification

- White illuminated moulded star, fixed on lower frame arm.
- Turning centre armature with flat spiral ribbon, with white illuminated rope light edge.
- Large Pole motifs at Crown and Erskineville will have custom brackets to fit Ausgrid round poles.

3a. Green Square Town Centre (new infrastructure)

- Manufacture, then install & dismantle twenty **(20)** single-sided **SMALL** star and spiral tree ribbons to Green Square's new, bespoke Poles. The star will be internally lit and will hang from a spiral tree ribbon designed with the Sydney Christmas Visual Identity in mind. The ribbon will affix to the Smart Pole's banner arm and will spin in the wind.

Note the Poles located within the Green Square Town Plaza area (only) are unique to the City of Sydney LGA.

3b. Erskineville Road (existing asset)

- Install & dismantle seven **(7)** five star illuminated units on the Energy Australia poles along Erskineville Road between Railway Parade and Union Street.
- *To be replaced for Sydney Christmas 2020 with seven **(7)** single-sided **LARGE** star and spiral tree ribbons. The star will be internally lit and will hang from a spiral tree ribbon designed with the Sydney Christmas Visual Identity in mind. The ribbon will affix to the Energy Australia Pole's banner arm and will spin in the wind. These will be in keeping with the theme for the City's new suite of Sydney Christmas infrastructure.*

3c. Crown Street (existing asset)

- Install & dismantle seven **(7)** five star illuminated units on the Energy Australia poles along Crown Street between Devonshire Street and Foveaux Street.
- *To be replaced for Sydney Christmas 2020 with seven **(7)** single-sided **LARGE** star and spiral tree ribbons. The star will be internally lit and will hang from a spiral tree ribbon designed with the Sydney Christmas Visual Identity in mind. The ribbon will affix to the Energy Australia Pole's banner arm and will spin in the wind. These will be in keeping with the theme for the City's new suite of Sydney Christmas infrastructure.*

3d. Redfern Street (existing asset)

- Install & dismantle twenty four **(24)** five star illuminated units on the Smart Poles along Redfern Street between Regent Street and Chalmers Street. The pole decorations are coordinated with the street banner installation as required.
- *To be replaced for Sydney Christmas 2021 with twenty four **(24)** single-sided **SMALL** star and spiral tree ribbons. The star will be internally lit and will hang from a spiral tree ribbon designed with the Sydney Christmas Visual Identity in mind. The ribbon will affix to the Smart Pole's banner arm and will spin in the wind. These will be in keeping with the theme for the City's new suite of Sydney Christmas infrastructure.*

3e. Darlinghurst Road (existing asset)

- Install & dismantle fourteen **(14)** five star illuminated units on the Smart Poles along Darlinghurst Road between Bayswater Road and Macleay Street. The pole decorations are coordinated with the banner installation as required.
- *To be replaced for Sydney Christmas 2021 with fourteen **(14)** single-sided **SMALL** star and spiral tree ribbons. The star will be internally lit and will hang from a spiral tree ribbon designed with the Sydney Christmas Visual Identity in mind. The ribbon will affix to the Smart Pole's banner arm and will spin in the wind. These will be in keeping with the theme for the City's new suite of Sydney Christmas infrastructure.*

3f. Glebe Point Road (existing asset)

- The Glebe Point Road decorations consist of fifteen **(15)** five star illuminated units on the Smart Poles along Glebe Point Road between Parramatta Road and Hereford Street. The pole decorations are coordinated with the banner installation as required.
- *To be replaced for Sydney Christmas 2021 with fifteen **(15)** single-sided **SMALL** star and spiral tree ribbons. The star will be internally lit and will hang from a spiral tree ribbon designed with the Sydney Christmas Visual Identity in mind. The ribbon will affix to the Smart Pole's banner arm and will spin in the wind. These will be in keeping with the theme for the City's new suite of Sydney Christmas infrastructure.*

3g. George Street (new infrastructure)

- Manufacture, then install & dismantle forty **(40)** single-sided **LARGE** star and spiral tree ribbons to George Street's new, bespoke Smart Poles. The star will be internally lit and will hang from a spiral tree ribbon designed with the Sydney Christmas Visual Identity in mind. The ribbon will affix to the Smart Pole's banner arm and will spin in the wind.

To be installed from Sydney Christmas 2019. Refer to *Table 1 - Installation Schedule of New Sydney Christmas Infrastructure Elements* on page 60, for a summary of when the George Street pole decorations will be displayed.

3h. Martin Place (new infrastructure)

- Manufacture, then install & dismantle to twenty **(20)** single-sided **LARGE** star and spiral tree ribbons Martin Place's Smart Poles. The star will be internally lit and will hang from a spiral tree ribbon designed with the Sydney Christmas Visual Identity in mind. The ribbon will affix to the Smart Pole's banner arm and will spin in the wind.

To be installed from Sydney Christmas 2019. Refer to *Table 1 - Installation Schedule of New Sydney Christmas Infrastructure Elements* on page 60, for a summary of when the George Street pole decorations will be displayed.

For the installation, maintenance and dismantle of the Pole Decorations, the Service Provider must:

- Advise the City of any tree branches that may prevent the installation of the pole decorations twelve (12) weeks prior to the installation date for the City to arrange for pruning of street trees at the discretion of the City's Greening and Leisure Unit;
- Liaise / provide a schedule for the City's project manager to coordinate pole decoration installations with the installation/removal of the street banners, in all locations;
- Provide a detailed traffic management plan for each location detailing the safe installation/dismantle process. These plans must be provided to the City's Traffic Unit / Building Approvals Unit for approval before the commencement of any work;
- Follow the reasonable direction of the City with regard to relocating any installations if required.

For the installation of the Pole Decorations, the City will:

- Provide smart pole wedges to mount the Pole Decoration brackets designed in the RFP;
- Arrange for pruning of street trees wherever necessary prior to installation in all locations, at the discretion of the City's Greening and Leisure Unit. Should the City's Greening and Leisure Unit determine the trees will not be pruned, the Service Provider will attempt to relocate the pole decoration/s within that specific Work Site. If no suitable location can be determined, the pole decoration/s will not be installed.

4. LIBRARY & CUSTOMER SERVICE CENTRE (CSC) INDOOR CHRISTMAS TREES

There are fifteen (15) trees in total, to be installed within each of the City's Libraries and CSC's. These will initially be either 1.8m high or 2.4m high trees from the City's existing suite of infrastructure. The height of these trees is dependent upon limitations at each Work Site.

In 2020 the fifteen (15) trees will be replaced with new 1.8m trees, reflecting the same elegant design as the new suite of outdoor trees, in keeping with the Sydney Christmas Visual Identity. Each tree will include one (static) Wombat.

Library & Customer Service Centre – 1.8m Indoor Tree Specifications

Sub-frame and foliage

- 1.8m Solid Foliage Tree

Decorations

- TOKO branded plastic ball decorations
- Sinimay Ribbon
- Native Australian Floral Decorations

Wombat

- 1 x Full Body Wombat 170mm

Lighting Specification

- Warm White Mini/fairy lights with 20% twinkle bulbs (green cable)

Location details as follows:

Table 2 – Library & Community Service Centre Tree Summary

Venue	Address	Qty	Existing Suite Height	New Suite Height
Customs House Library	31 Alfred Street, Circular Quay	2	2.4m	1.8m
Glebe Library & CSC	186 Glebe Point Road, Glebe	1	2.4m	1.8m
Haymarket Library	744 George Street, Sydney	1	2.4m	1.8m
Kings Cross Library	L1 50-52 Darlinghurst Road, Kings Cross	1	1.8m	1.8m
Kings Cross CSC	50-52 Darlinghurst Road, Kings Cross	1	2.4m	1.8m
Newtown Library	8-10 Brown Street, Newtown	1	1.8m	1.8m
Waterloo Library	770 Elizabeth Street, Waterloo	1	1.8m	1.8m
Ultimo Library	L1 Ultimo Community Centre, 40 William Henry St, Ultimo	1	2.4m	1.8m
Town Hall House Library Link	L1 THH, 456 Kent Street, Sydney	1	2.4m	1.8m
Town Hall House One-Stop-Shop	L2 THH, 456 Kent Street, Sydney	1	2.4m	1.8m
Green Square Library	355 Botany Road, Zetland	2	1.8m	1.8m
Redfern CSC	158 Redfern Street, Redfern	1	1.8m	1.8m
Surry Hills Library and Community Centre	405 Crown St, Surry Hills	1	2.4m	1.8m

Notes;

1. Quantity for each location will remain consistent
2. In 2019 the Haymarket Library will be moving to Level 1, 1 Pier Street, Haymarket.

Refer to *Table 1 - Installation Schedule of New Sydney Christmas Infrastructure Elements* on page 60, for a summary of when new indoor trees will be manufactured and installed.

Standard 10amp power is available from each of the above locations.

In the delivery of the fifteen (15) Library & Customer Service Centre Trees, the Service Provider must:

- Install the trees in the nominated locations on the nominated date as per *Table 3 – Milestones and Critical Dates* on page 81.

- Install the existing and any new tree decorations
- Provide ongoing maintenance and monitoring of the tree during the display period
- Dismantle the tree on the nominated date as per *Table 3 – Milestones and Critical Dates* on page 81.
- Connect the tree to mains power safely without risk to general public (without the use of cable trays)
- Advise the City of energy consumption of the tree
- Liaise and coordinate the install and dismantle with each Library and Customer Service Centre, to ensure services are not disrupted

5. STAR DECORATIVE INSTALLATION – GREEN SQUARE LIBRARY ENTRY

One large star decorative installation hanging from the atrium of Green Square’s entry triangle. Suspended from existing fixing points, it will provide a stunning spectacle for those entering or passing the Green Square Town Plaza, and for those utilising the café space below.

HANGING STAR SPECIFICATION

- Colour changing programmable lights.
- Final construction method and materials to be agreed by the parties. Service Provider cannot commence construction of the Hanging Star without approval of the final specification from the City in writing.

To be installed from Sydney Christmas 2018. Refer to *Table 1 - Installation Schedule of New Sydney Christmas Infrastructure Elements* on page 60, for a summary of when the Green Square Library Entry Star will be displayed.

6. LIGHT CANOPIES – PITT STREET MALL AND MARTIN PLACE

There are two (2) light canopies to be installed;

A) Pitt Street Mall

Note – the Pitt Street Mall Canopy of Light is excluded from the Contract for Christmas 2018. Refer to Table 1 - Installation Schedule of New Sydney Christmas Infrastructure Elements on page 60, for full details.

The twinkling Canopy of Light in Pitt Street Mall is a much-loved Sydney Christmas installation. It is suspended from the existing catenary lighting system, with the fairy lights stretching the length of the mall, transforming Pitt Street Mall into a festive walkway. The canopy will work in unison with the existing programmable catenary lighting system, from which 12 stars will be suspended.

Through the use of a Canopy of Light, the aim is to showcase innovative content with an imaginative use of light in transformative and festive ways. The City is striving to build upon the success of previous years to create diverse, immersive and memorable sensory experiences this Christmas.

It is possible for the canopy to be attached to rigging points on the buildings facing the mall and to the overhead catenary lighting system.

In delivering the Canopy of Light – Pitt Street Mall, the City requires a turn-key solution for the supply, installation, dismantle and management. The Service Provider must:

- Provide, design, source and supply any other equipment to aesthetically and safely attach the canopy of light to perimeter buildings.
- Provide an engineer inspection and test of the building anchor points.
- Provide engineering certification for the use of any building anchor points
- Provide engineering sign off for any other additional installation solutions
- Liaise with the City's lighting contractor on the canopy and chandelier attachment to the overhead catenary system
- Liaise with the City's lighting contractor on the programming available for the overhead catenary lighting system.
- Engage a licenced electrician to provide an electrical check of the canopy of light and chandeliers, providing a test and tag certification and undertake any necessary repairs required
- Document any necessary repairs to the canopy system with detailed documentation including photographs and a cost of repairs for the City's asset management system
- Supply all qualified staff, plant and equipment for the installation and dismantle of the canopy of light
- Supply all necessary permits and source approvals for all work required for the safe installation of the lighting system, including the use of any elevated work platforms, forklifts, etc
- Supply a traffic management and pedestrian management plan for review and approval by the City
- Liaise with the City's lighting contractor to program the current catenary lighting system with the canopy of light
- Obtain engineering approval and certification for the canopy of light

Pitt Street Mall Work Site Restrictions

Working hours are restricted and must occur outside of retail operating hours. All vehicular traffic to be kept to a minimum to reduce impact on pedestrian traffic and the Service Provider will be required to adhere to all vehicle restrictions that apply to Pitt Street Mall.

PITT STREET MALL SPECIFICATION

- Warm White LED mini bulb lights
- Cable rigging and layout per 3200 Lighting Catenary Specification supplied with RFP - *Fairy Lights ver4 (550mm spacing).pdf* and *Power and Water Distribution – Pitt St Mall[1] copy.pdf*.

To be installed from Sydney Christmas 2019. Refer to *Table 1 - Installation Schedule of New Sydney Christmas Infrastructure Elements* on page 60, for a summary of when the Pitt Street Mall Light Canopy will be displayed.

B) Martin Place

Due to the popularity and impact of the Pitt Street Mall Canopy of Light, the City will extend the theme into Martin Place. A canopy of fairy light strings will be rigged across the pedestrianised space, supported by steel cable rigging between existing Smart Poles. The canopy spans Stage 2 of Martin Place (Castlereagh Street to Pitt Street).

In delivering the Canopy of Light – Martin Place, the City requires a turn-key solution for

the supply, installation, management, and removal. In order to meet the requirements of the brief, the Service Provider must:

- Provide an engineering inspection and test of the anchor points
- Provide engineering certification for the use of any anchor points
- Provide engineering sign off for any other additional installation solutions
- Engage a licenced electrician to provide an electrical check of the canopy of light, providing a test and tag certification and undertake any necessary repairs required
- Document any necessary repairs to the canopy system with detailed documentation including photographs and a cost of repairs for the City's asset management system
- Supply all qualified staff, plant and equipment for the installation and dismantle of the canopy of light
- Supply all necessary permits and source approvals for all work required for the safe installation of the lighting system, including the use of any elevated work platforms, forklifts, etc
- Supply a traffic management and pedestrian management plan for review and approval by the City
- Obtain engineering approval and certification for the canopy of light

To be installed from Sydney Christmas 2018. Refer to *Table 1 - Installation Schedule of New Sydney Christmas Infrastructure Elements* on page 60, for a summary of when the Martin Place Light Canopy will be displayed.

7. GOBO LIGHT PROJECTIONS – GEORGE STREET, CBD

Giant baubles will be projected onto George Street's iconic buildings, in keeping with the Sydney Christmas Visual Identity.

Due to uncertainty caused by Light Rail Works and infrastructure in George Street, the City and the Service Provider in consultation will develop additional specifications for George St Gobos ("Gobo Specifications"). [REDACTED]

[REDACTED]

The additional specifications and final costing must be finalised and approved by the City prior to 1 August each year in order to meet the Installation Schedule.

If the Gobo Specifications are not finalised by 1 August then the Service Provider will follow the reasonable direction of the City to reallocate expenditure from the Gobo Projection Budget.

[REDACTED]

GENERAL REQUIREMENTS

The City Requires the Service Provider to provide the following in the delivery of Services:

- Prepare a detailed photographic inventory condition report of the City's owned Christmas trees, decorations, support structures/bases, fixings and guy wires, etc, after dismantle. The report must include a clear breakdown of what items are requiring repair, the work and costs required to repair the item and what new or replacement items are needed and their costs, over and above the maintenance cost in the Schedule of Prices. Costs are required for the City's asset management calculations;
- Provide a detailed program schedule, manufacturing schedule, and installation & dismantle (I&D) schedule which includes all key milestones including prototyping, manufacturing, shipping, permit applications, notifications, inspections, design development meetings, work-in-progress (WIP) meetings and the City's *Table 3 – Milestones and Critical Dates* on page 81.
- Supply a schedule of operational staff for the installation & dismantle and for the duration of the program including ongoing maintenance;
- Prepare Work Site dilapidation reports for each Work Site and submit to the City by 30 October each year;
- Attend regular fortnightly WIP meetings with key stakeholders and provision of minutes and a WIP action register;
- Provide schedule of energy consumption of each decoration unit at the detailed design development milestone;
- Provide all general maintenance ensuring all lighting, electrical, technical and digital issues are promptly responded to and make any necessary repairs as advised by the City during the period of display of all trees, decorative installations and other deliverables as part of the Service Providers scope of work at no additional cost to the City;
- Provide a specific Work Site safety management plan for each Work Site ensuring a safety culture is present in all works undertaken. All site contractors will be required to produce safe work method statements (SWMS) for their specific services with special attention to those activities deemed hazardous;
- Prepare and submit minimum four (4) weeks out from installation all WHS documentation, including but not limited to; pedestrian & traffic management plans, Safe Work Method Statements and Risk Assessments for the I&D of trees and decorative installations;
- Apply for and prepare Traffic Control Plans and all other documentation for the application for Road Occupancy Licenses (ROL), Council temporary works permits and police approvals for I&D dates / times. Dates must be day specific on all applications;
- Prepare and maintain document register outlining the submission dates of all documentation, permits, applications, SWMS submission, Risk Assessments, confirmed and receipts of approvals, I&D schedules dates and approvals, certifications, insurances, traffic management plans, ROL and other approvals/documents as required.
- Install and dismantle the Christmas trees and decorative installations in accordance with the current Australian Standards and Codes of Practice;
- Transport all City owned trees, decorative installations and associated elements to and from the City's designated storage location for installation; (City of Sydney's metropolitan area storage location only)
- Provide a suitable power generator (up to 100kVa) to provide power for concert audio speakers and backup power for the tree lighting event on the last Saturday in November;

- Maintain neat and tidy works Work Sites during I&D and clean any granite pavers as required;
- Minimise the disruption to the surrounding areas, City services and pedestrian traffic at all locations during install, maintenance and dismantle;
- Remove and dispose of all waste generated during I&D. Management of this waste is the responsibility of the Service Provider.
- Coordinate and liaise with other contractors and City staff at various locations during I&D;
- Provide detailed specifications and certification for technology/interactive features and ability to integrate with existing City platforms;
- Provide and install suitable secure and safe compound fencing around Work Sites during I&D phase to ensure public safety and security of the Work Site ;
- Provide sufficient personnel, sub-contractors and suppliers with adequate experience and qualifications to carry out the required activities on site during I&D and during the display period;
- Provide all electrical connections to power sources by securing and engaging a suitably experienced and qualified Electrical Contractor to connect all power sources. This Electrician must also be available for the Martin Place Tree Lighting Event on the last Saturday in November to check all connections and ensure a successful tree lighting moment at the Event;
- Dismantle, neatly pack, label and transport all City owned trees, decorations and materials post the display period to the City's designated storage location (City of Sydney's metropolitan area storage location only)
- Refrain from using cable trays at all locations;
- Electrical connection of trees and decorative installations including engagement of Electrician to carry out the connections and provide any require test and tag certification;
- Liaise and coordinate inspections with City staff at all times including the City's WHS officer;
- Ensure each aspect of structural work is to be checked and certified by a qualified Structural Engineer;
- Provide Engineering certification and any other relevant certification for the proposed decorative elements and installation of elements i.e. Martin Place tree, pole decorations;
- Provide an operations manual for all trees and decorative installations that will enable the City or its Contractors to install, dismantle and operate the trees and decorative installations in subsequent years;
- Respond to all reports of vandalism and or technical faults immediately and no later than;
 - Vandalism, lighting issues and general maintenance – within 24 hours
 - Technical faults and resets – within 6 hours

All call-out, maintenance and repair fees must be included within the Service Provider's fee.

- Maintenance pricing in the Schedule of Prices for all decorations at all locations does not include the costs associated to replace or repair decorations due to theft, vandalism or storm damage. When required, quotes to replace or repair City asset will be provided before works commence;

Where variations to Work Site locations, available infrastructure or unforeseen external works will impact the costs associated with the installation / dismantle process, the Service Provider should provide the City with a new quote outlining works required and estimated costs. The City must approve the additional quote in writing prior to the Service Provider commencing works.

SERVICE DELIVERY CITY REQUIREMENTS

For the delivery of the above services, the City will:

- Provide access to all Sydney Christmas infrastructure locations, including the City's designated storage location as required;
- Issue the Service provider Sydney Christmas print ready designs/artwork, as per the specifications provided by the Service Provider, for use on decals, fence scrim, bases, decorations, etc;
- Cover any crane and temporary work permit fees;
- Pay for replacement material and labour costs directly associated with stolen, vandalised or storm damaged items/decorations, based upon approval of quotation from the Service Provider;
- Communicate information regarding the works and obtain written consent from all building owners, organisations or City departments for which any of the works will impact;
- Dispose of all redundant Sydney Christmas assets.

Martin Place Tree

- Provide a 24 hour static security guard for the duration of the display period at Martin Place;
- Provide design suggestions, should they wish to alter the wombat to a different species of Australian fauna;
- Bollard removal before any works commence at the Pitt St entrance of Martin Place (both round bollards and lowering of side bollards);
- Energy Australia Electrician for electrical distribution cupboard and pit access with cable in Martin Place Stage 1;
- Arrange pruning of Martin Place Stage 1 London Plane trees, to prevent interface or damage during Installation/Dismantle of Martin Place Tree, at the discretion of the City's Greening and Leisure Unit;
- Liaise with and communicate relevant information regarding other installations, activations or works in Martin Place or surrounding streets that may impact the installation / dismantle of decorations at any of the Work Sites;
- Arrange / liaise with the City's Waste and Cleansing Unit to be on site when the Martin Place construction compound is removed.

Outdoor Trees

- Provide roving security guard to monitor Green Square Town Centre, George Street, Customs House, Kings Cross, Town Hall, Pitt Street Mall, Hyde Park, St Mary's Forecourt, Union Square and Taylor Square tree locations, nightly from 7pm – 7am;
- Liaise with and communicate relevant information regarding other installations, events, activations or works for each Work Site and its surrounding streets that may impact the installation / dismantle of decorations at any of the Work Sites;
- Confirm distribution boards, smart poles or any other required power points are operational prior to works commencing and provide service provider access to required power as needed;
- Liaise with and communicate relevant information including obtaining approvals for works from relevant property managers, City Business Units or other contractors.

Library & Customer Service Centres

- Liaise with and communicate relevant information regarding other installations, events, activations or works for each Work Site and its surrounding streets that may impact the installation / dismantle of decorations at any of the Work Sites;
- Communicate the installation dates to each of the centres and ensure all locations have been notified of the install and dismantle days. (On the day of installation / dismantle the service provider will contact each Work Site approximately an hour before arrival);
- Any furniture has been moved prior to install;
- Update prior to dismantle of any trees, which have been relocated, to a new location;
- Power at tree location is operational.

Pole Decoration Work Sites

- Engage and cover Ausgrid accredited linesman fees;
- Liaise with and communicate relevant information regarding other installations, events, activations or works for each Work Site and its surrounding streets that may impact the installation/dismantle of decorations at any of the Work Sites;
- Provide smart pole wedges to mount the Pole Decoration brackets designed in the RFP;
- Liaise with and coordinate installations with the City's Street Banner Contractor and coordinate the proposed date for the pole decorations installation in all locations;
- Arrange pruning of street trees, to prevent interface or damage during Installation/Dismantle of pole decorations, at the discretion of the City's Greening and Leisure Unit;
- Confirm smart poles or any other required power points are operational prior to works commencing and provide service provider access to required power as needed.

Martin Place Light Canopy – Stage Two Martin Place

- Liaise with and communicate relevant information regarding other installations, events, activations or works for each Work Site and its surrounding streets that may impact the installation/dismantle of decorations at any of the Work Sites;
- Liaise with and coordinate installations with the City's Street Banner Contractor and coordinate the proposed date for the pole decorations installation in all locations;
- Confirm smart poles or any other required power points are operational prior to works commencing and provide service provider access to required power as needed.

Green Square Library – Entry Star

- Liaise with the Library to inform them of installation/dismantle dates as well as crew access to the library;
- Confirm required power points are operational prior to works commencing and provide service provider access to required power as needed.

Pitt Street Mall Light Canopy

- Bollards lowered at both Market St entrance and King St entrance/exit;
- Liaise with and communicate relevant information regarding other installations, events, activations or works for each Work Site and its surrounding streets that may impact the installation/dismantle of decorations at any of the Work Sites;

- Confirm required power points are operational prior to works commencing and provide service provider access to required power as needed;
- Liaise and obtain written consent / approval from all building owners to which the Canopy of Light is attached.

WORKSITE DILAPIDATION REPORT

The City requires a photographic and written report from the Service Provider prior to installation commencing on each Work Site. The Service Provider must also lodge the report with the Superintendent's Representative prior to commencement on site to establish the condition of the existing fabric and adjacent surfaces in all installation sites. The dilapidation report will be used amongst other things as a means of assessing the responsibility for damage and/or making good arising out of the performance of the work under the contract. The Service Provider must use protective barriers under and around all works and take reasonable care not to cause any damage to the Worksite during I&D.

The dilapidation report must report on the following:

- Materials of surrounding surfaces
- General condition of materials
- Location and description of any defects, especially structural defects
- Location, sizes, and description of any cracking or existing damage

Where entering Work Site/location with vehicles / machinery the following should be documented in the report:

- Walls, fences, trees, turf, paths, plantings, structures and adjacent road services and service pits
- All lighting and other equipment and plant installed adjacent to the Work Site for Christmas tree or decoration
- All existing street and park furniture and signage including seats, public telephones, post boxes, parking meters, and the like
- All existing lighting poles and traffic poles adjacent to the immediate Work Site.
- All existing kerbstones adjacent to the immediate Work Site
- All existing pit covers adjacent to the immediate Work Site

WORKING HOURS

In general, the installation, maintenance and dismantling of the Martin Place Christmas Tree is to be managed with minimal disruption to the Martin Place thoroughfare. The installation, maintenance and dismantling of all other trees and decorative installations are to be managed to ensure minimal disruption to the nominated display locations. All deliveries of equipment and material are to be completed during the hours from 9pm to 6am. The Service Provider must nominate their preferred hours with the provision that the Work Site is clearly fenced off from the public or alternative protection recommended in the Work Site Specific Safety Management Plan.

MILESTONES AND CRITICAL DATES

The Service Provider must meet the following Critical Dates in accordance with the delivery of the Services (dates shown below for Christmas 2018 only – an updated table will be provided for Christmas 2019-22 as dates are confirmed).

All dates are subject to change.

Table 3 – Milestones and Critical Dates

Milestone	Deadline / Critical Date
Schedule of energy consumption of each tree Work Site	Monday 15 October 2018
Delivery of Safe Work Method Statements & Work Site Safety Management Plan (including sub-contractors documentation)	Monday 15 October 2018
Provide finalised install/dismantle schedule to the City including Living Colour timings	Monday 15 October 2018
Submit Traffic Management Plans and copy of the Road Occupancy Licence submission to the City	Monday 15 October 2018
Work Site Dilapidation report for each location prior to install commencing	Tuesday 30 October 2018
Inspection of Smart Poles / Ausgrid Poles to check power for Pole Decorations	Monday 5 November 2018
Install 24 metre Martin Place Tree (Stage 1)	5am Monday 12 – Monday 19 November 2018.
Install Outdoor Tree: Taylor Square	Tuesday 13 November 2018
Install Outdoor Trees; Kings Cross, St. Mary's Cathedral, Hyde Park, Customs House & Union Square	Wednesday 14 – Thursday 15 November 2018
Install Outdoor Tree: Green Square Town Centre	Thursday 15 – Friday 16 November 2018
Install Green Square Library Entry Star	Saturday 17 November 2018
Install Pole Decorations: Green Square Town Centre	Saturday 17 November 2018
Install Pole Decorations: Erskineville	Monday 19 November 2018
Install Pole Decorations: Redfern	Saturday 17 November 2018
Install Pole Decorations: Kings Cross	Friday 23 November 2018
Install Pole Decorations: Martin Place	Tuesday 20 November 2018
Install Indoor Trees: Libraries & Customer Service Centres (CSC's)	Monday 19 – Tuesday 20 November 2018
Martin Place Tree install Work Site (Stage 1) - ALL compound equipment, materials and personnel must be cleared, along with rubbish and debris. City Cleansing team to conduct Work Site clean am Tuesday 20 November 2018.	Midnight Monday 19 November 2018
Install Martin Place Light Canopy (Stage 2)	Monday 19 – Wednesday 21 November 2018
Install Pole Decorations: Glebe	Sunday 18 November 2018
Sydney Christmas Media reveal/showcase and launch (at Martin Place Tree)	8pm (TBC) on either Tuesday 20 or Wednesday 21 November
Martin Place Tree Lighting testing (with City staff)	Tuesday 20 – Thursday 22 November
Install Pole Decorations: Surry Hills	Wednesday 21 November 2018
Sydney Christmas Media Launch (daytime)	Wednesday 21 November 2018 (TBC)
Martin Place Tree Lighting Event testing and countdown rehearsal	Friday 23 November 2018 at approx. 8pm
Install Outdoor Tree: Sydney Town Hall	Tuesday 13 November 2018
Completion of all other install locations / clear all equipment, compounds & waste, ready for public	By midnight, Sunday 24 November 2018

Sydney Christmas Media reveal/showcase and launch (at Martin Place Tree)	8pm (TBC) on either Tuesday 20 or Wednesday 21 November
Martin Place Tree Lighting testing (with City staff)	Tuesday 20 – Thursday 22 November
Install Pole Decorations: Surry Hills	Wednesday 21 November 2018
Sydney Christmas Media Launch (daytime)	Wednesday 21 November 2018 (TBC)
Martin Place Tree Lighting Event testing and countdown rehearsal	Friday 23 November 2018 at approx. 8pm
Install Outdoor Tree: Sydney Town Hall	Tuesday 13 November 2018
Completion of all other install locations / clear all equipment, compounds & waste, ready for public	By midnight, Sunday 24 November 2018
Engineering certification and any other relevant certification for all trees and decorations	On completion of installation
Martin Place Tree Lighting Event	Saturday 25 November 2018 (time TBC)
Dismantle Outdoor Trees; Green Square Town Centre, Kings Cross, St. Mary's Cathedral, Hyde Park, Customs House, Union Square & Taylor Square	Thursday 27 – Saturday 29 December 2018
Dismantle Outdoor Tree: Sydney Town Hall	Wednesday 2 January 2019
Dismantle Martin Place Light Canopy (Stage 2)	Wednesday 2 – Thursday 3 January 2019
Dismantle 24 metre Martin Place Tree (Stage 1)	Wednesday 2 – Sunday 6 January 2019
Dismantle Outdoor Tree: Green Square Town Centre	Thursday 3 – Friday 4 January 2019
Dismantle Indoor Trees: Libraries & Customer Service Centres (CSC's)	Friday 4 January 2019
Dismantle Pole Decorations: Glebe	Friday 4 January 2019
Dismantle Pole Decorations: Green Square Town Centre	Friday 4 January 2019
Dismantle Green Square Library Entry Star	Friday 4 January 2019
Dismantle Pole Decorations: Redfern & Kings Cross	Saturday 5 January 2019
Dismantle Pole Decorations: Erskineville & Surry Hills	Sunday 6 January 2019
Dismantle Pole Decorations: Martin Place	Sunday 6 January 2019
Clear of all Work Sites	Monday 7 January 2019
Work Site Dilapidation Report for each location on completion of dismantle	Friday 25 January 2019
Asset Dilapidation Report for all trees and decorative installations on completion of dismantle. Report to detail any maintenance undertaken during the program and expected lifetime of the item including costs to repair/replace.	Thursday 31 January 2019
Operational manual provided to enable the City to install, dismantle and operate the trees and decorations in subsequent years	Thursday 31 January 2019
Post Event Report outlining any issues experienced during the program season, including lessons learnt	Monday 4 February 2019
Performance Review Meeting	Monday 11 February 2019

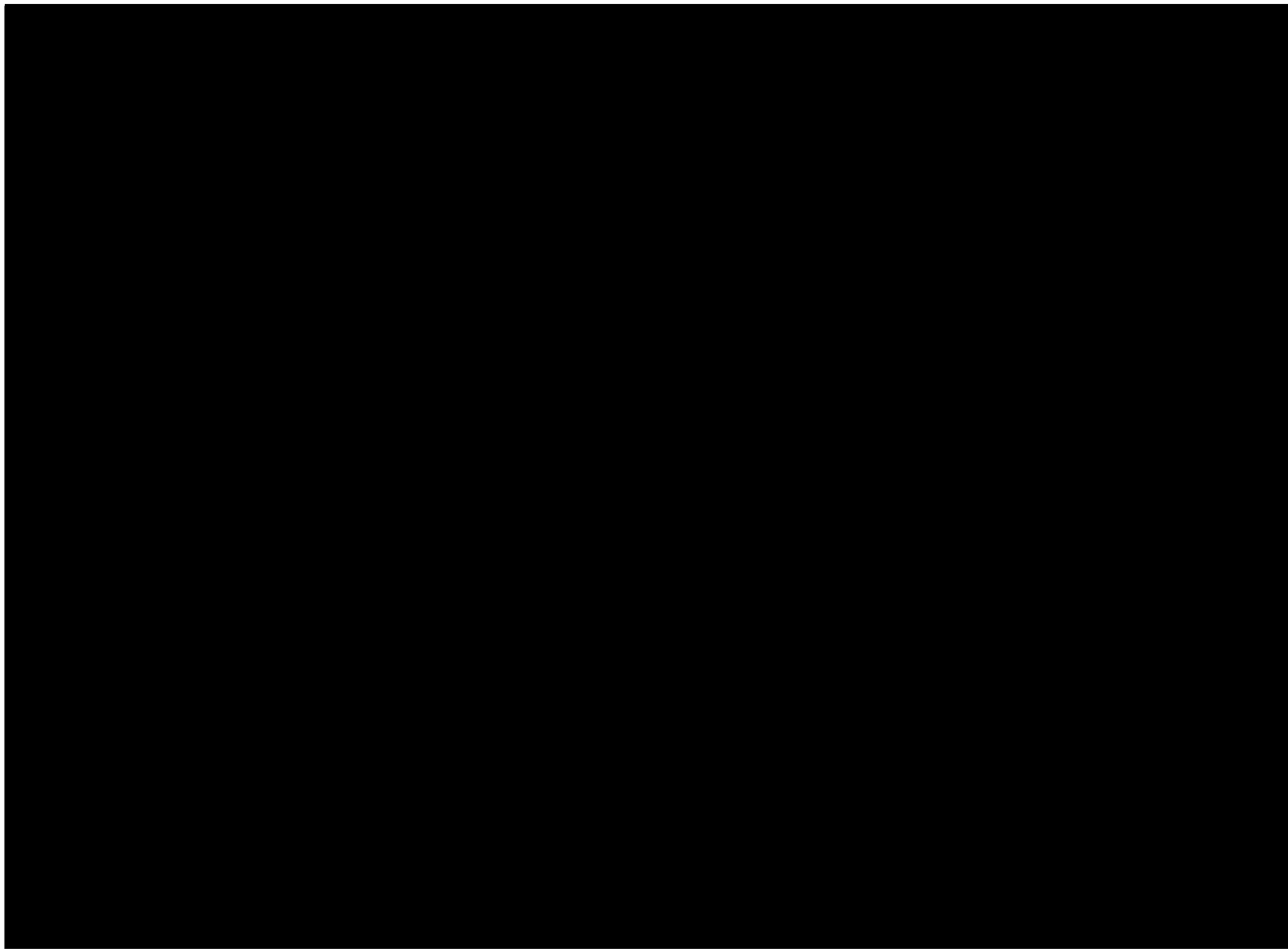
Service Provider to ensure staff are available and fully briefed on the above dates and expectations of delivery.

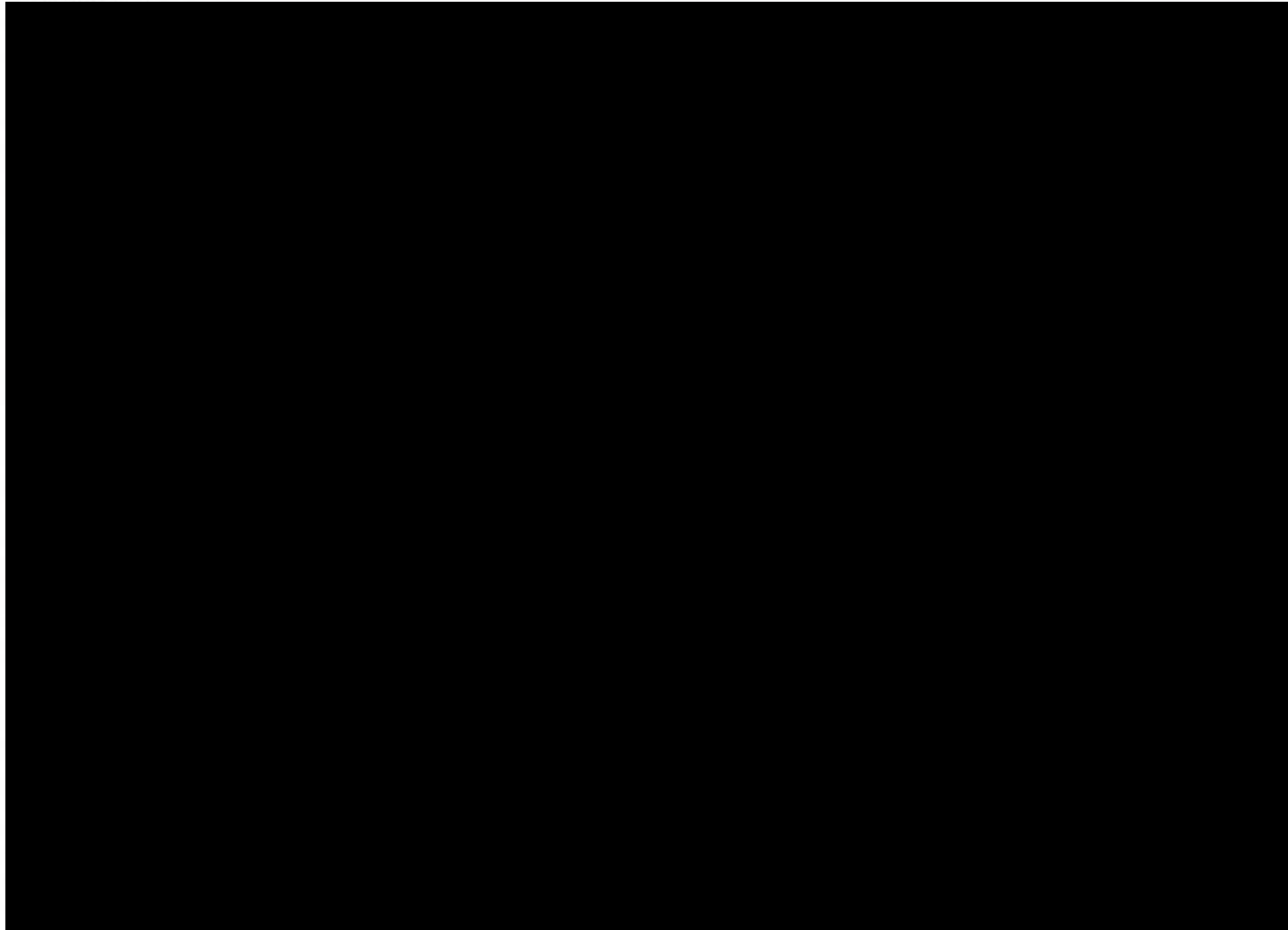


Annexure B
Schedule of Prices

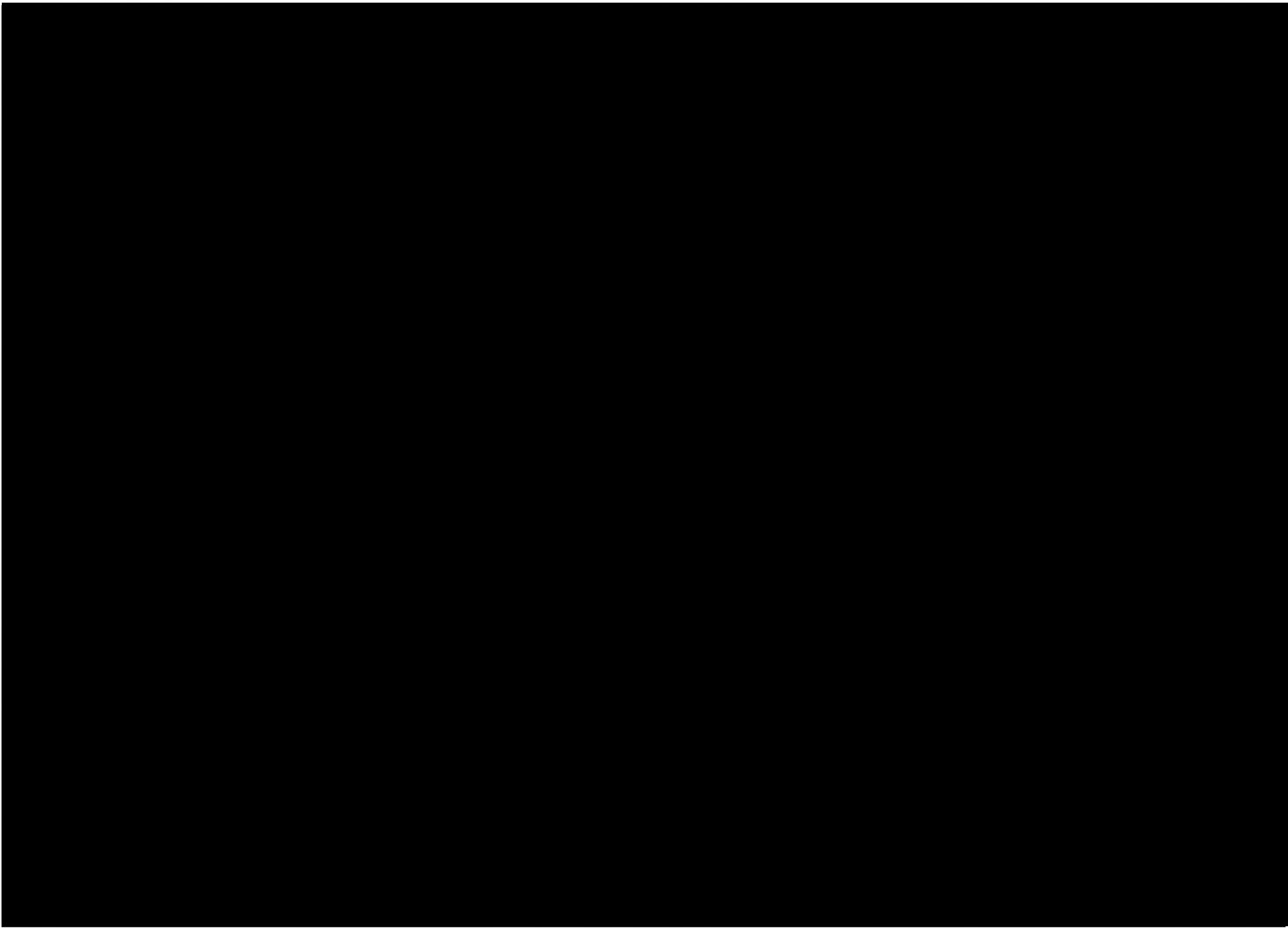


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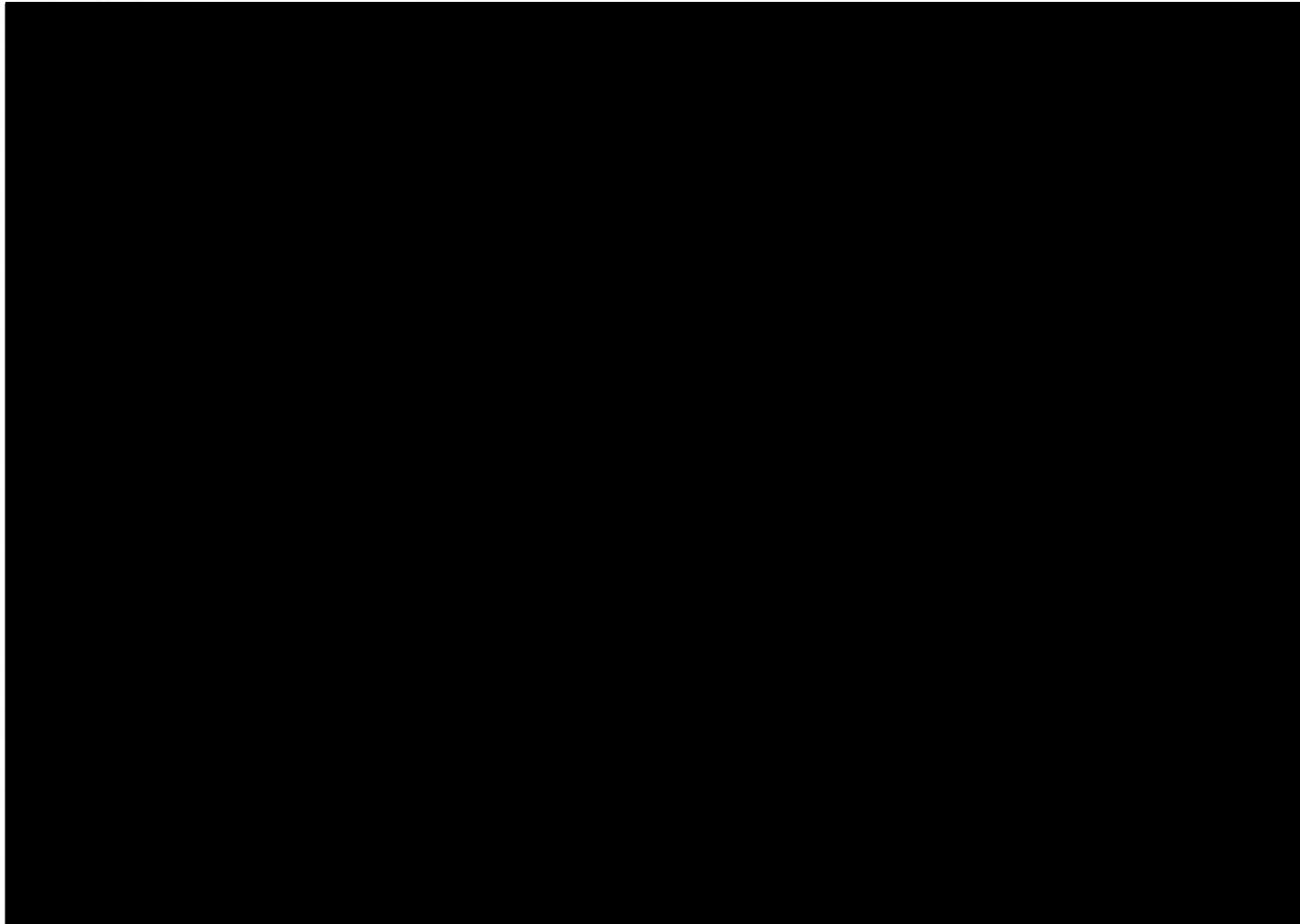


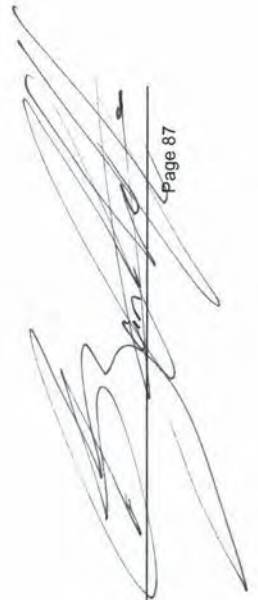


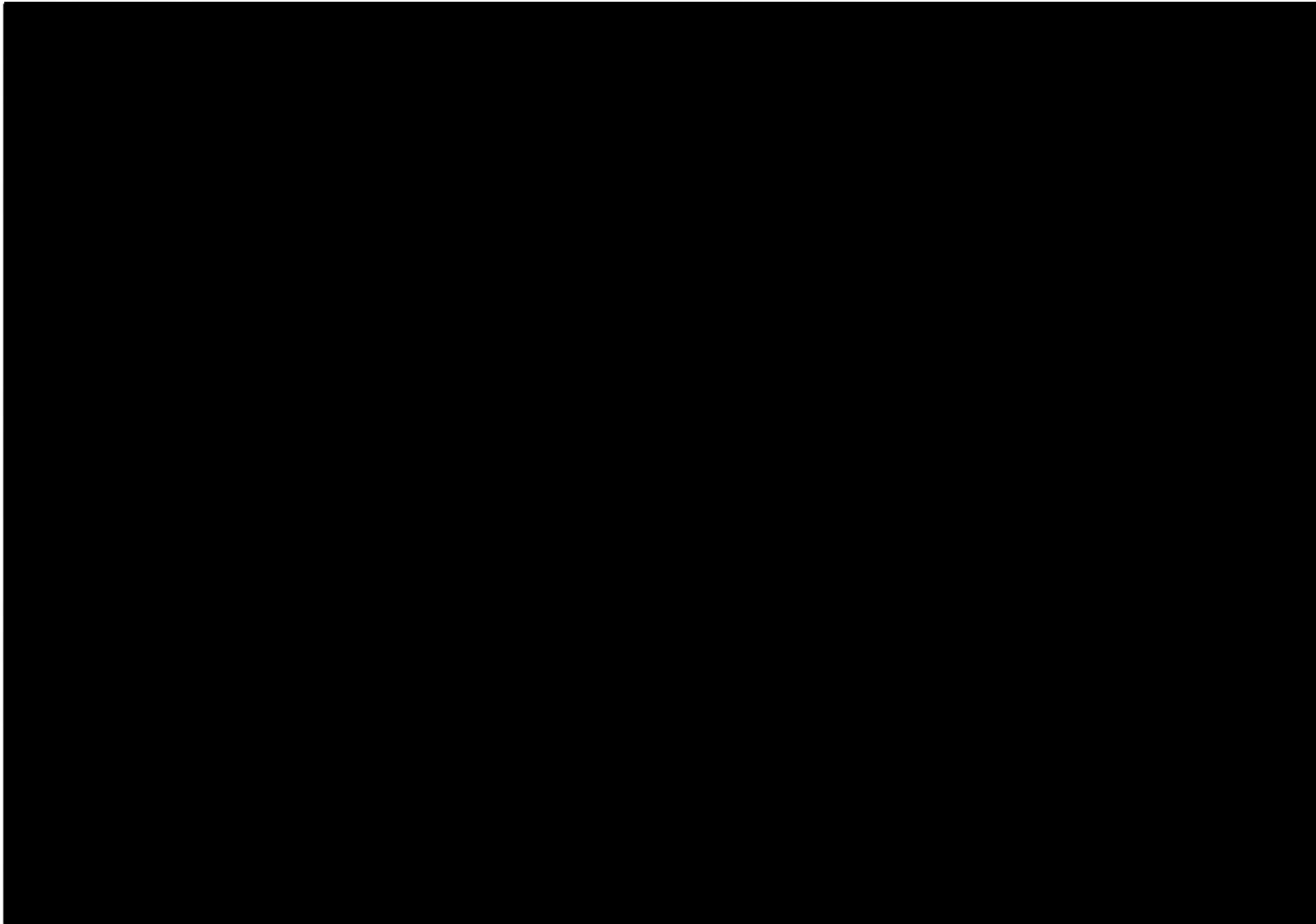

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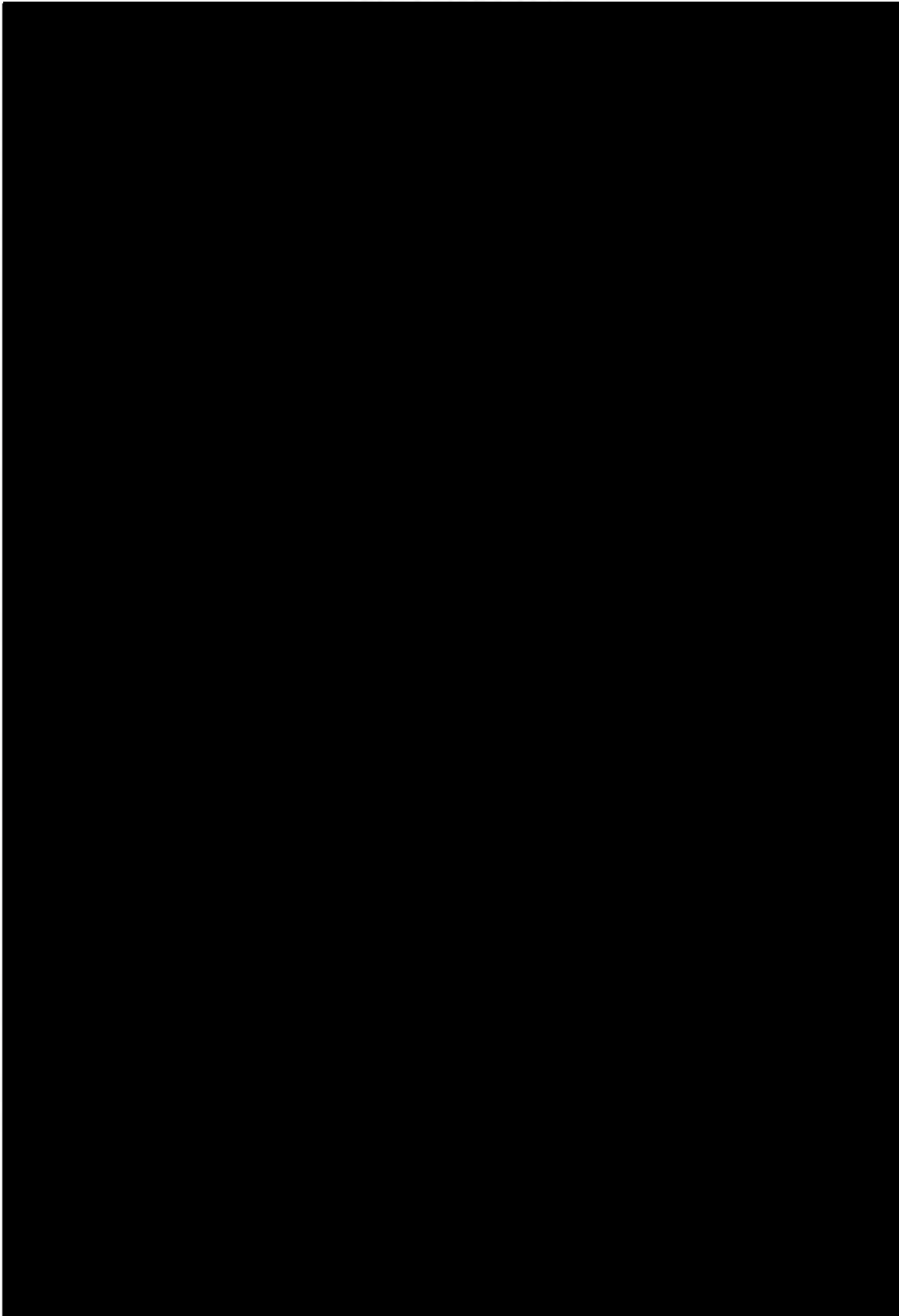
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Annexure C



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Annexure D
Toko Visual Identity

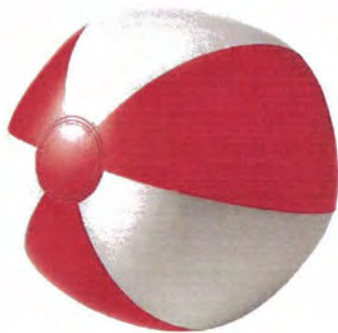
TO
OK

Design by Toko.

Shop 1
461 Oxford St
Paddington NSW 2021
Sydney Australia
P +61 (0)4 136 133 81
design@toko.com

EOI
Sydney Christmas
Steve Howlett
25.05.17

Sydney



Christmas



Handwritten signature of Steve Howlett.

Sydney



Christmas



Beachball
+
Christmas ball

A playful juxtaposition on the traditional
becomes the perfect iconography
for a unique Christmas experience:

The Sydney Christmas



Versatile
Recognisable
Memorable
Enduring
Playful
Celebratory
Accessible
Bold
Graphic
Spatial
Contemporary
Inclusive

Primary

Succeeding Years

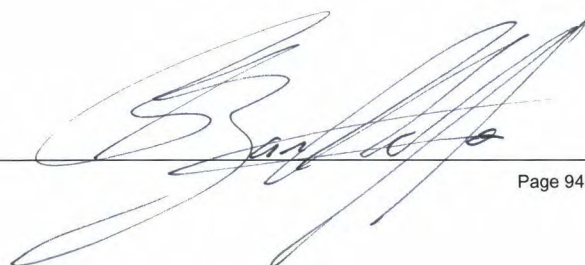
Special



Attachments

1. Scoundrel Sydney Christmas Tree Submission - SCID_SCOUNDREL_TREE_STAMPED_V2.pdf

A handwritten signature in black ink, consisting of stylized, overlapping loops and strokes, positioned above a horizontal line.

A handwritten signature in dark ink, featuring a large, stylized initial 'B' followed by several overlapping, fluid strokes that form the rest of the name. The signature is positioned above a horizontal line.

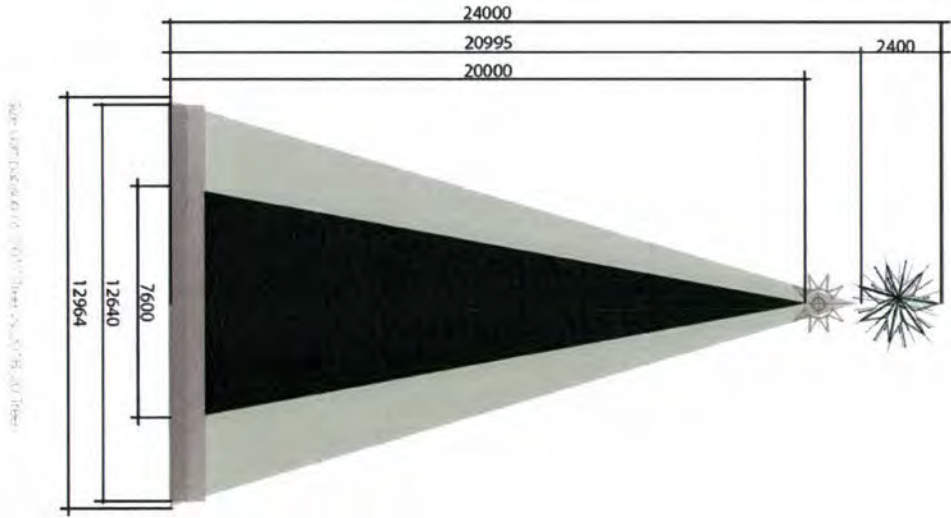
2. Scoundrel Sydney Christmas Decorative Installations Submission -
SCID_SCOUNDREL_DECORATIVE_INSTALLATIONS_V2.pdf

A handwritten signature in black ink, consisting of stylized, overlapping loops and strokes, positioned above a horizontal line.

A handwritten signature in blue ink, consisting of stylized, overlapping loops and strokes, positioned above a horizontal line.

3. A. RFP 2018-2022 Christmas Infrastructure - Manufacture Proposal MP and GSq tree.pdf

Christmas Tree Frames & Foliage | Martin Place



Scale: 1:100 (Drawing of 100' Tree is 10' High)

Christmas Tree Frames & Foliage | Martin Place

Martin Place Tree Sub-frame

For the purpose of this submission we have included a sub-frame for the tree. The sub-frame is designed for use only after several years of use. The sub-frame is designed for use only after several years of use. The sub-frame is designed for use only after several years of use.

The Martin Place tree structure was designed with a sub-frame. The sub-frame is designed for use only after several years of use. The sub-frame is designed for use only after several years of use.

Visual instructions are provided to use a sample tree that we have provided for you. The sample tree is designed for use only after several years of use. The sample tree is designed for use only after several years of use.



[Handwritten signature]



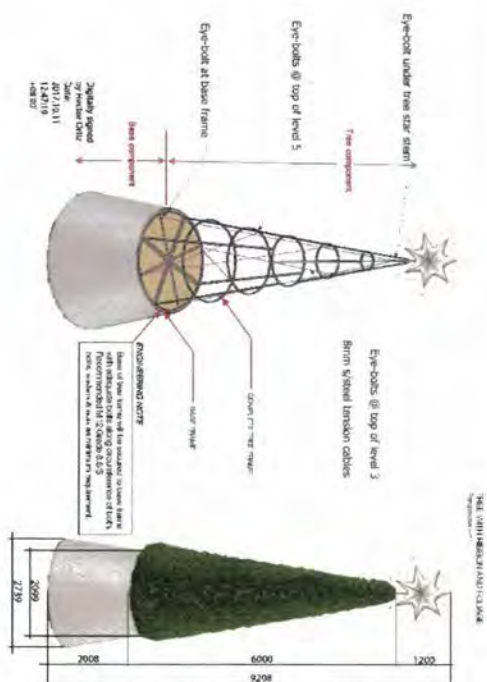
Taylor Square Tree Sub-frame

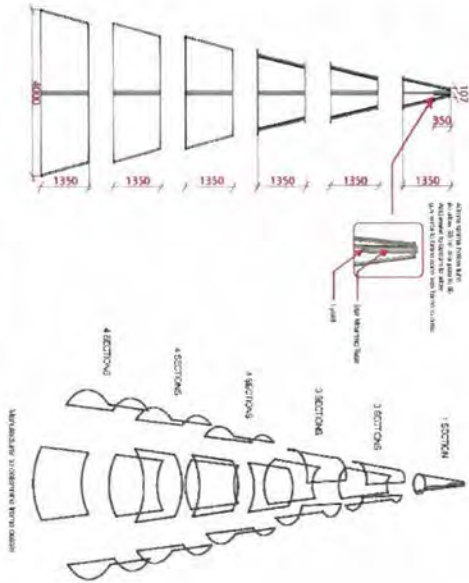
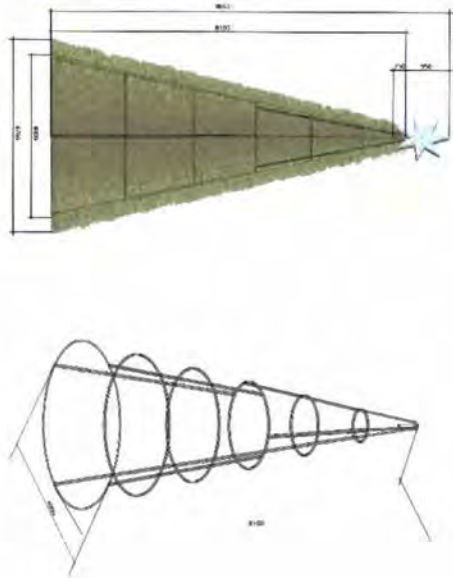
For `alpha` square we are proposing a panel style, the however the tree structure has been adopted to the unique location of Taylor Square.

As Visual Information has experienced many years of "growing" for the City Chertsey project, we understand that a key consideration for the "Super" Square installation is safety and vandalism. It is for this reason we are developing to raise the tree up on the engineered base to keep it out of reach of would be vandals.

This will protect the City's asset and offer a unique way to extend the City's TOKO branding. This item will be fully certified to Australian standards.

This tree we have proposed is "the same tree" and base like Vaidya (2017) however a branch-new tree with updated branching will be accepted. This particular style of tree is a 6th structure however come on its base and finished with the "deep star" it will stand firm!





5. A. RFP 2018-2022 Christmas Infrastructure - Manufacture Proposal village trees.pdf

3D Hook Tree Frame Diagram (Engineer Created)
10M & 12M Trees will be designed and profiled for each size tree on 8000mm

City Trees Sub-frame

The installation time period for the entire City of Sydney Christmas project is only two weeks. This is a very tight window to ensure many different elements to the design occur simultaneously across different locations in the city. Quality craftsmanship, reliability and speed of installation are extremely important, particularly when time is tight. Hook style structures (sometimes referred to as V-bay or V-bay up) to trees as they are installed and this would increase the cost to install each of the City trees out of the City's allocated budget.

It is due to this tight installation time frame, Visual Inspirations has proposed using a different tree frame to the one outlined in the tender for the six City trees at Kings Cross, Customs House, St Marys Cathedral, Hyde Park and Union Square.

In the current installation schedule Visual Inspirations are able to install 6 x City Trees over a two day period. We recommend this from experience as a good time frame for the new installation. If the allocated time frames are utilised, please note this is only a structural consideration the aesthetic appeal of the trees will remain unchanged, however there will be a significant cost and time saving and increased reliability for installation.

The different style of tree frame has been engineered to meet Australian standards. Full engineering specification and certification of all tree frames will be supplied on approval.

The new trees will be 10m and 12m in size, 10m will be 10m high and 12m will be 12m high. The new trees will have a fuller foliage than the current City trees.

As an added value to the City we have proposed the new tree style at the same price as the size outlined in the tender \$110,000 (170k tree plus staff). The new tree will however still be over a month later at \$ 211,000 (170k tree plus staff).



Major lighting tower to be proposed
Decorative frame will look with full
decoration. We have proposed a
series of four smaller and larger
frames in the same style for
reference.



6. C. Quality Management Policy Statement.pdf

7. D. Environmental Policy Statement .pdf

8. E. Traffic Management Plans (Sample).pdf



Date: 18/10/2017 Author: Craig Reeves Project: Martin Place, Sydney CBD Christmas Lights www.invarion.com
Client: Visual Inspiration Contact: David Glen Phone: 0434626693
Plan Number: 0788 Christmas Lights

Comments:

This plan was designed by Craig Reeves of Sydney Traffic Control in accordance with Australian Standards and the RMS's Traffic Control on Worksite Handbook Version 4.0. The plan is designed for the safe entry and exit of vehicles onto Martin Place and the setup of an exclusion zone for these vehicles and the work area for the erection of Christmas lights. Certified Traffic Controllers will be on site to implement and monitor this TCP. Sydney Traffic Control holds no responsibility for this TCP unless Sydney Traffic Control employees are used to implement and monitor this TCP. All traffic control plans are copyright/property of Sydney Traffic Control and are not transferable unless authorized by Sydney Traffic Control. Any question please contact Craig Reeves of Sydney Traffic Control on 80681844 or 0451114280.



Transport
Roads & Maritime
Services

Prepare a Work Zone
Traffic Management Plan
Card No: 0040529982

This qualification enables you to prepare Traffic Management Plans and conduct inspections on Traffic Management Plans.

CRAIG
REEVES

Expiry Date
19/04/2020



This card is not a proof of identity.

SIGNED BY CRAIG REEVES

Craig Reeves

DATE: 18/10/2017

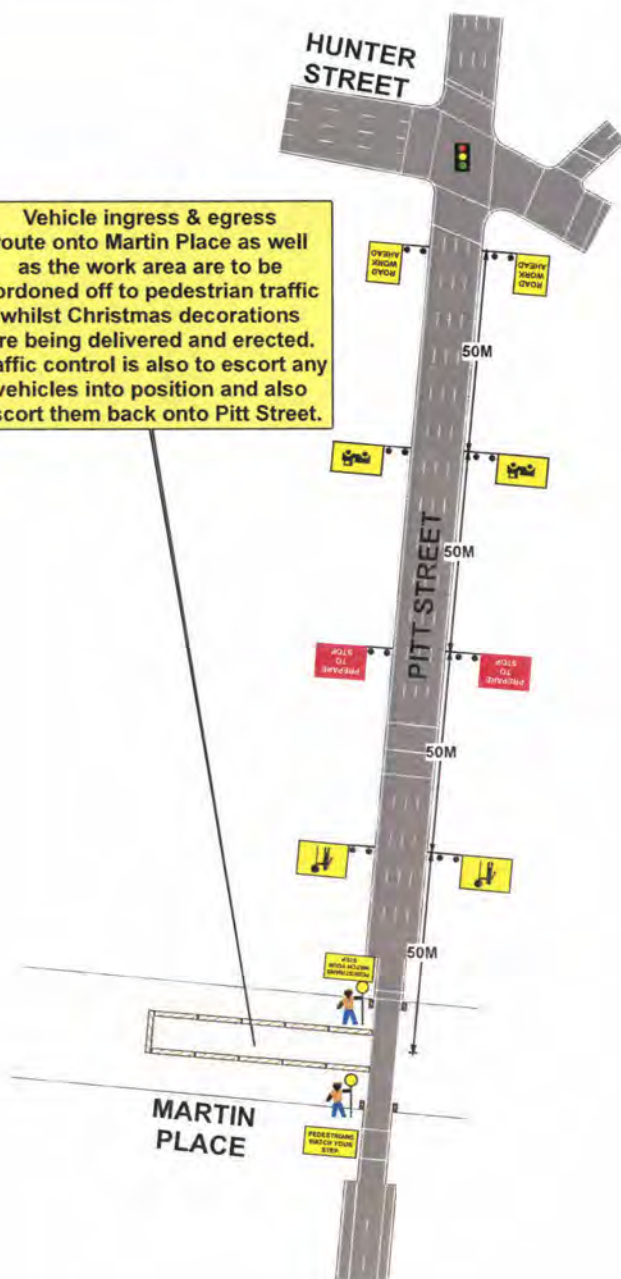
Legend

- barrier board
- Pedestrian Mall
- Pedestrian Watch your Step
- sign single
- T1-18 prepare to stop
- T1-200-2* traffic controller ahead symbolic day (yellow)
- T1-31 road work ahead (2)
- T2-25(R) trucks entering symbolic (W) (R)
- Traffic Controller
- traffic light

Manifest

- 2 x Pedestrian Watch your Step
- 8 x sign single
- 2 x T1-18 prepare to stop
- 2 x T1-200-2* traffic controller ahead symbolic day (yellow)
- 2 x T1-31 road work ahead (2)
- 2 x traffic controller

Vehicle ingress & egress route onto Martin Place as well as the work area are to be cordoned off to pedestrian traffic whilst Christmas decorations are being delivered and erected. Traffic control is also to escort any vehicles into position and also escort them back onto Pitt Street.



PLAN NOT TO SCALE

All advanced warning
signs to be spaced as
per RMS Traffic Control
on Worksite Manual
1 x Distance = Speed.



Date: 16/10/2017 **Author:** Craig Reeves **Project:** Construction of Christmas Tree at Town Hall Sydney CBD
Client: Visual Inspirations **Contact:** David Glen **Phone:** 0434626693
Plan Number: 0780 Footpath Closure

Comments:

This plan was designed by Craig Reeves of Sydney Traffic Control in accordance with Australian Standards and the RMS's Traffic Control on Worksite Handbook Version 4.0. The plan is designed for the safe closure of the footpath in front of Town Hall Building Sydney CBD and the diversion of pedestrians for the construction of the Christmas tree at the town hall building. Certified Traffic Controllers will be on site to implement and monitor this TCP. Sydney Traffic Control holds no responsibility for this TCP unless Sydney Traffic Control employees are used to implement and monitor this TCP. All traffic control plans are copyright/property of Sydney Traffic Control and are not transferable unless authorized by Sydney Traffic Control. Any question please contact Craig Reeves of Sydney Traffic Control on 80681844 or 0451114280.



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Card No. 004029962

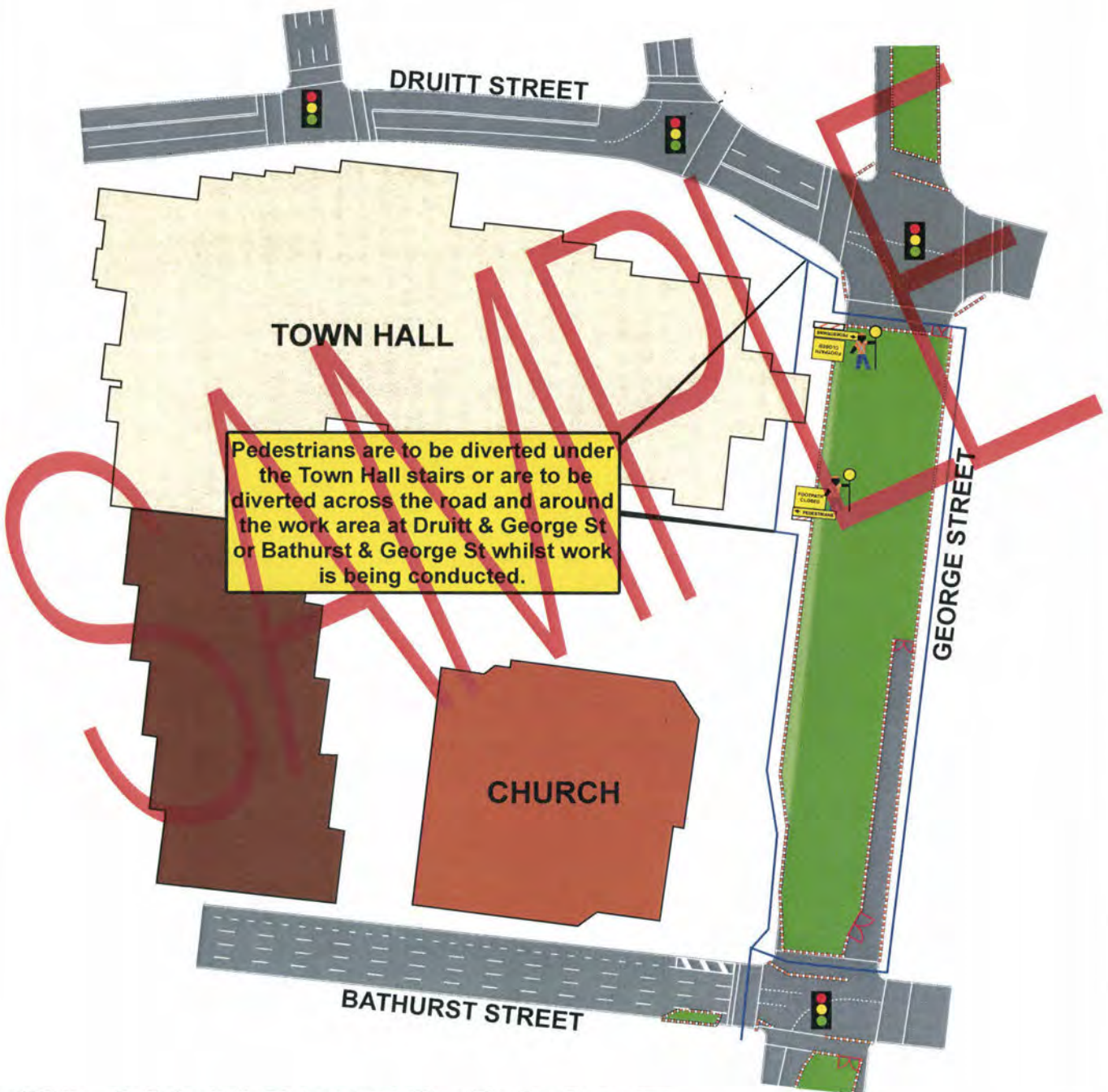
CRAIG
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DATE: 16/10/2017



PLAN NOT TO SCALE



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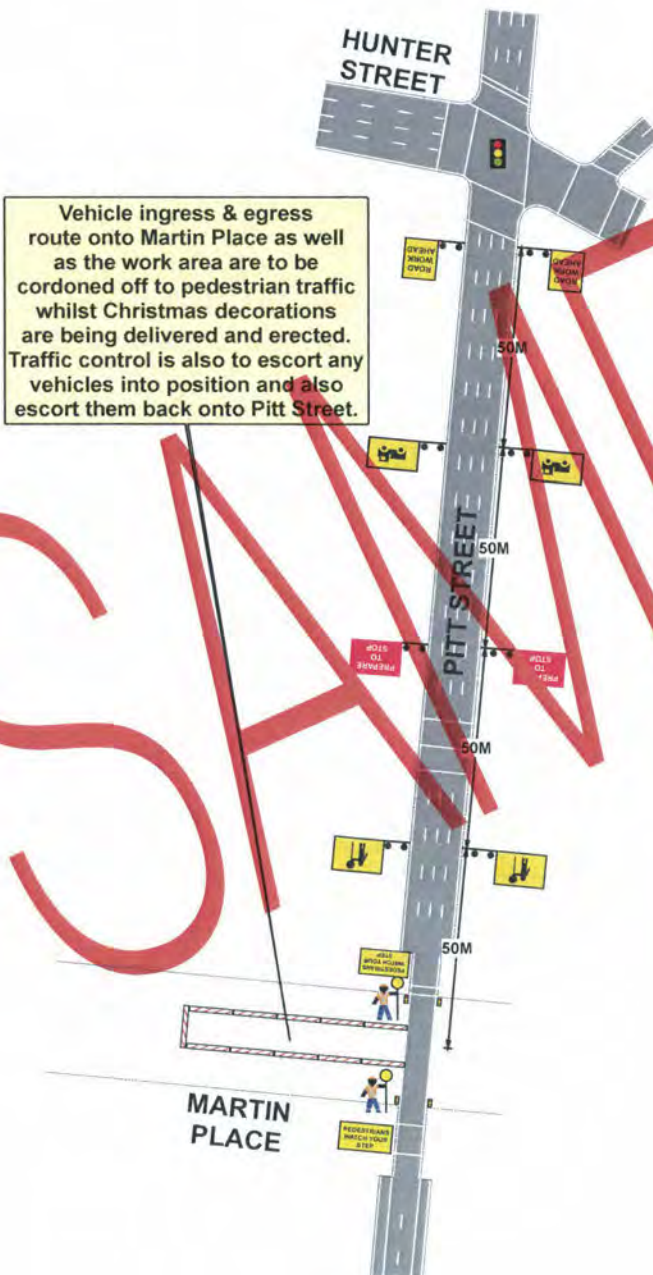
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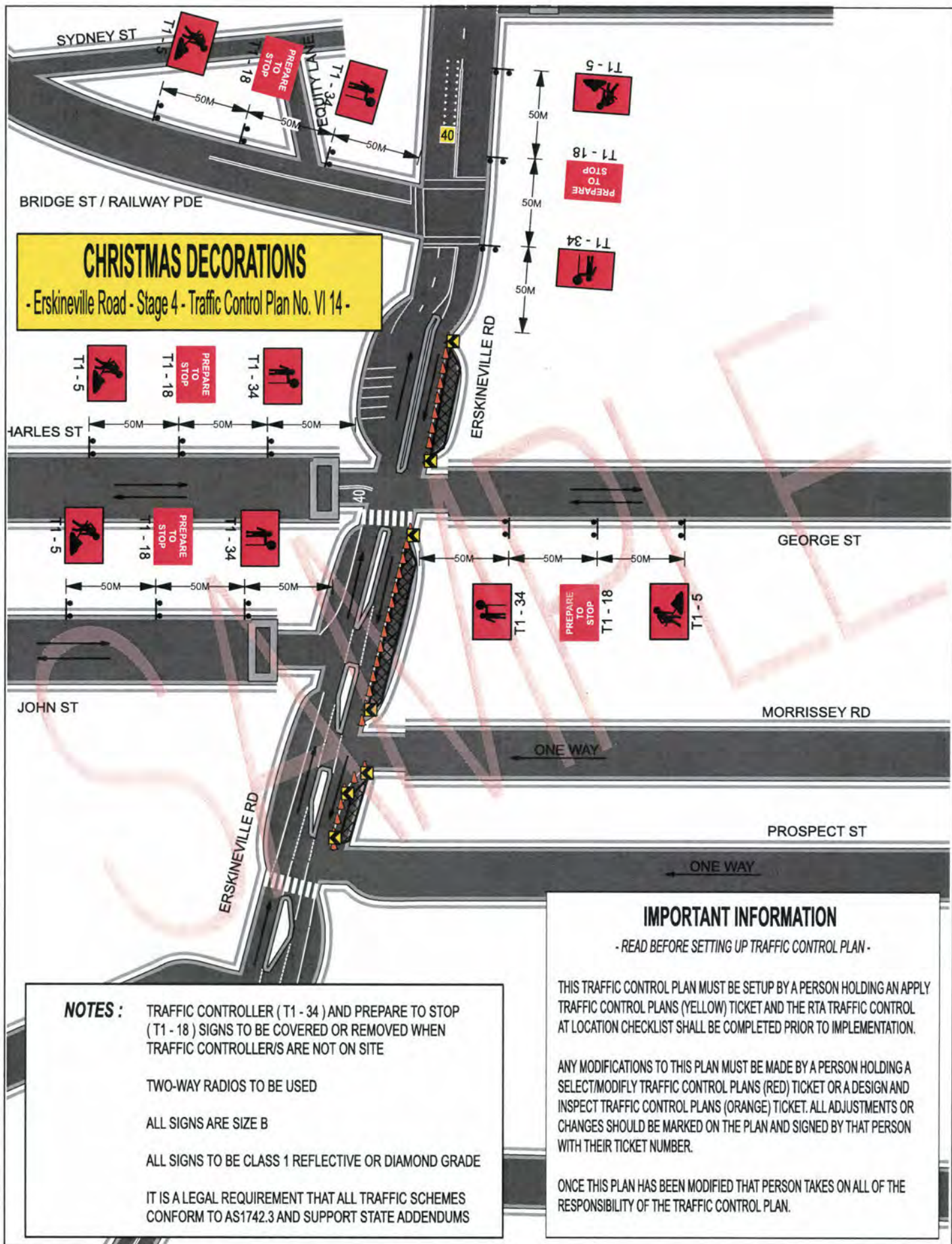
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CHRISTMAS DECORATIONS

- Erskineville Road - Stage 3 - Traffic Control Plan No. VI 13 -

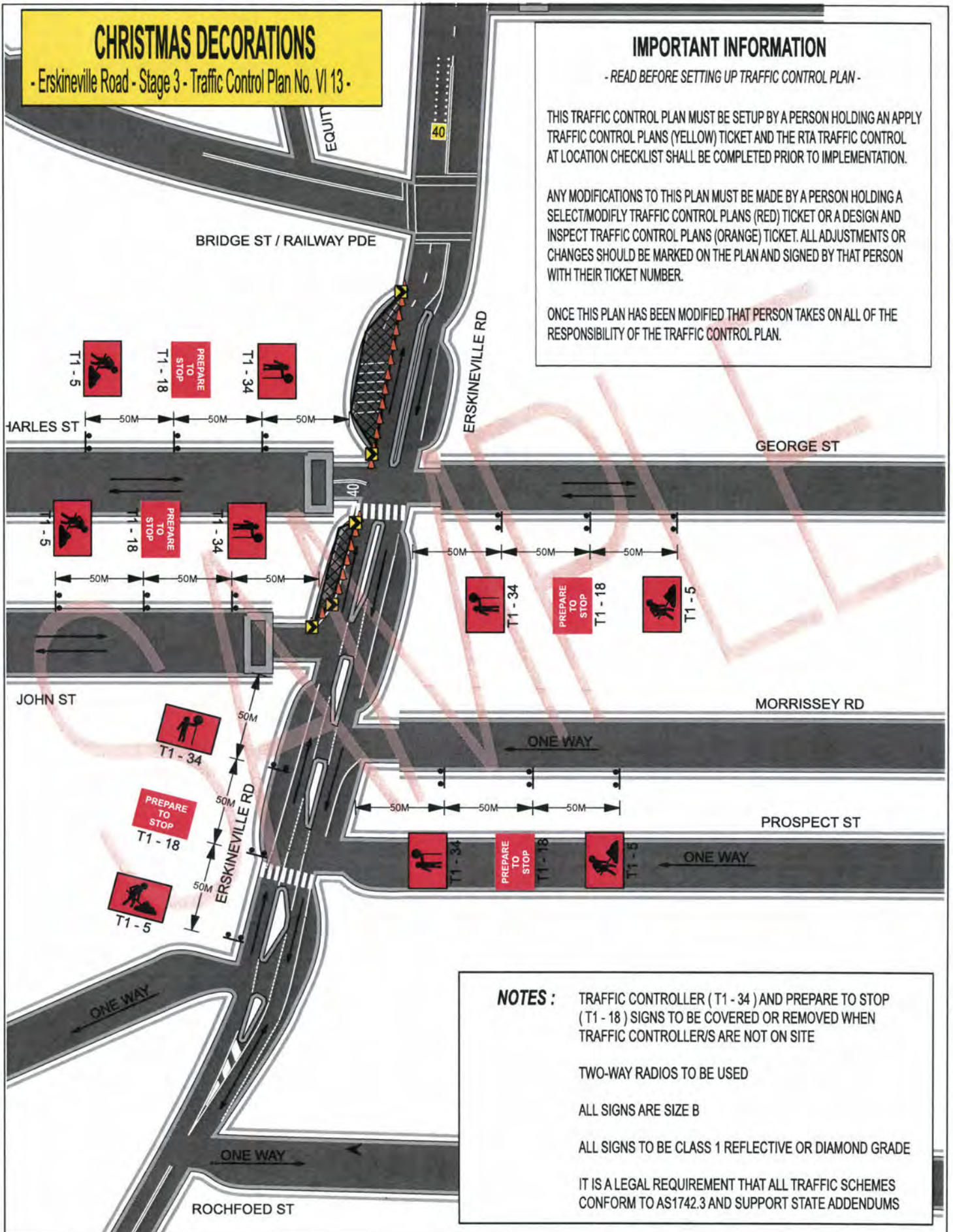
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NOTES : TRAFFIC CONTROLLER (T1 - 34) AND PREPARE TO STOP (T1 - 18) SIGNS TO BE COVERED OR REMOVED WHEN TRAFFIC CONTROLLER/S ARE NOT ON SITE

TWO-WAY RADIOS TO BE USED

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JOHN ST

CHRISTMAS DECORATIONS

- Erskineville Road - Stage 2 - Traffic Control Plan No. VI 12 -

MORRISSEY RD

ONE WAY

PROSPECT ST

ONE WAY

SEPTIMUS ST

ROCHFOED ST

ERSKINEVILLE RD

UNION ST

ONE WAY

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CHRISTMAS DECORATIONS

- Erskineville Road - Stage 1 - Traffic Control Plan No. VI 11 -

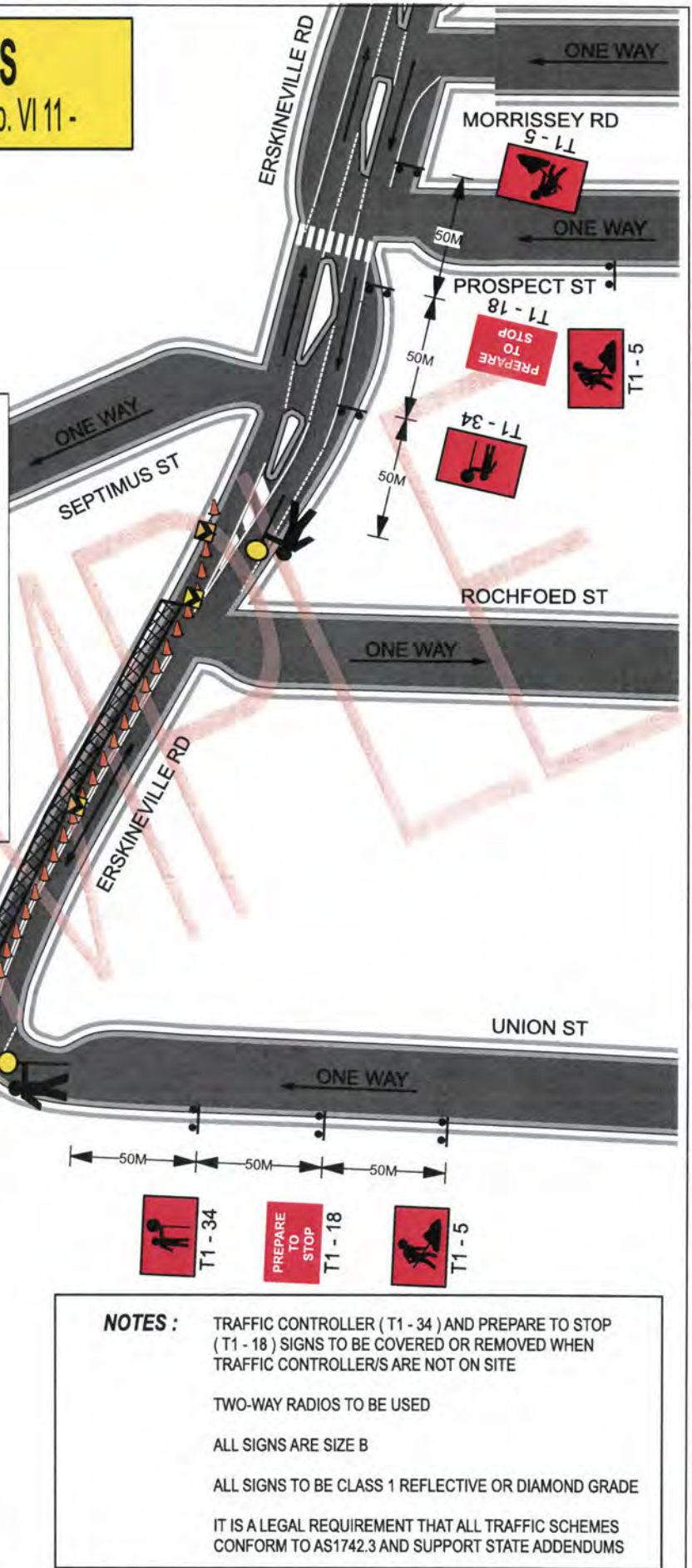
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CHRISTMAS DECORATIONS

- Darlinghurst St - Stage 2 - Traffic Control Plan No. VI 16 -

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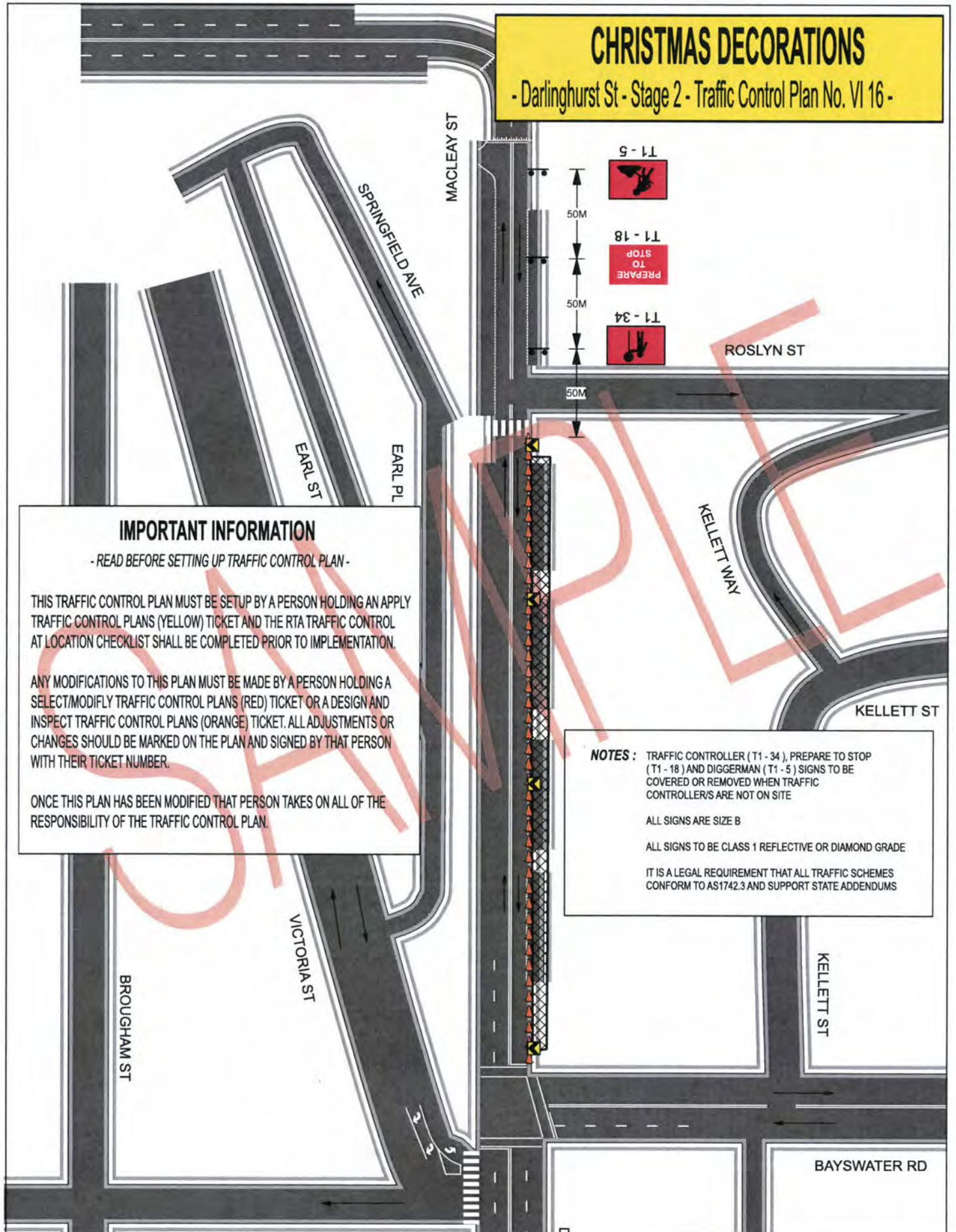
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CHRISTMAS DECORATIONS

- Darlington St - Stage 1 - Traffic Control Plan No. VI 15 -

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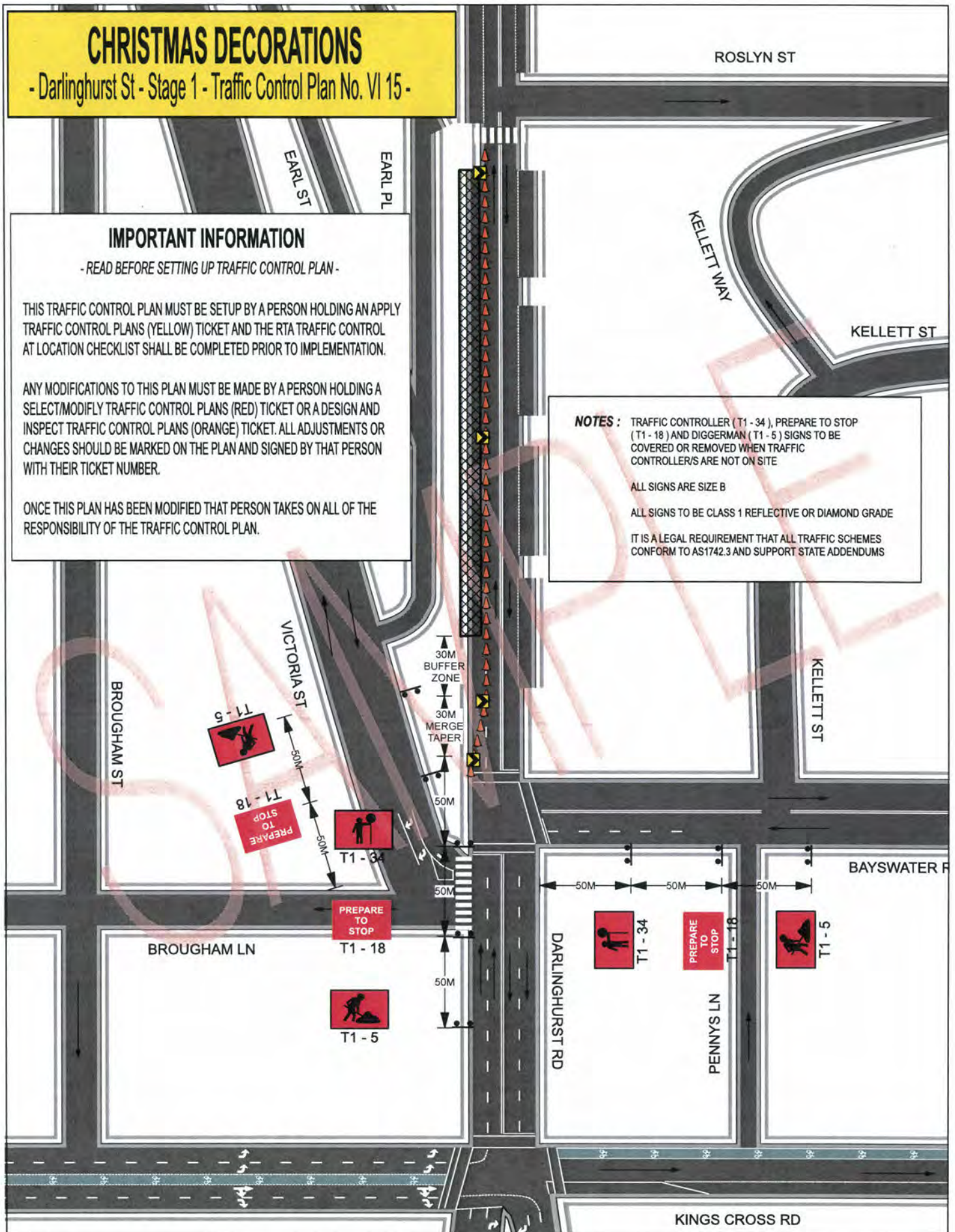
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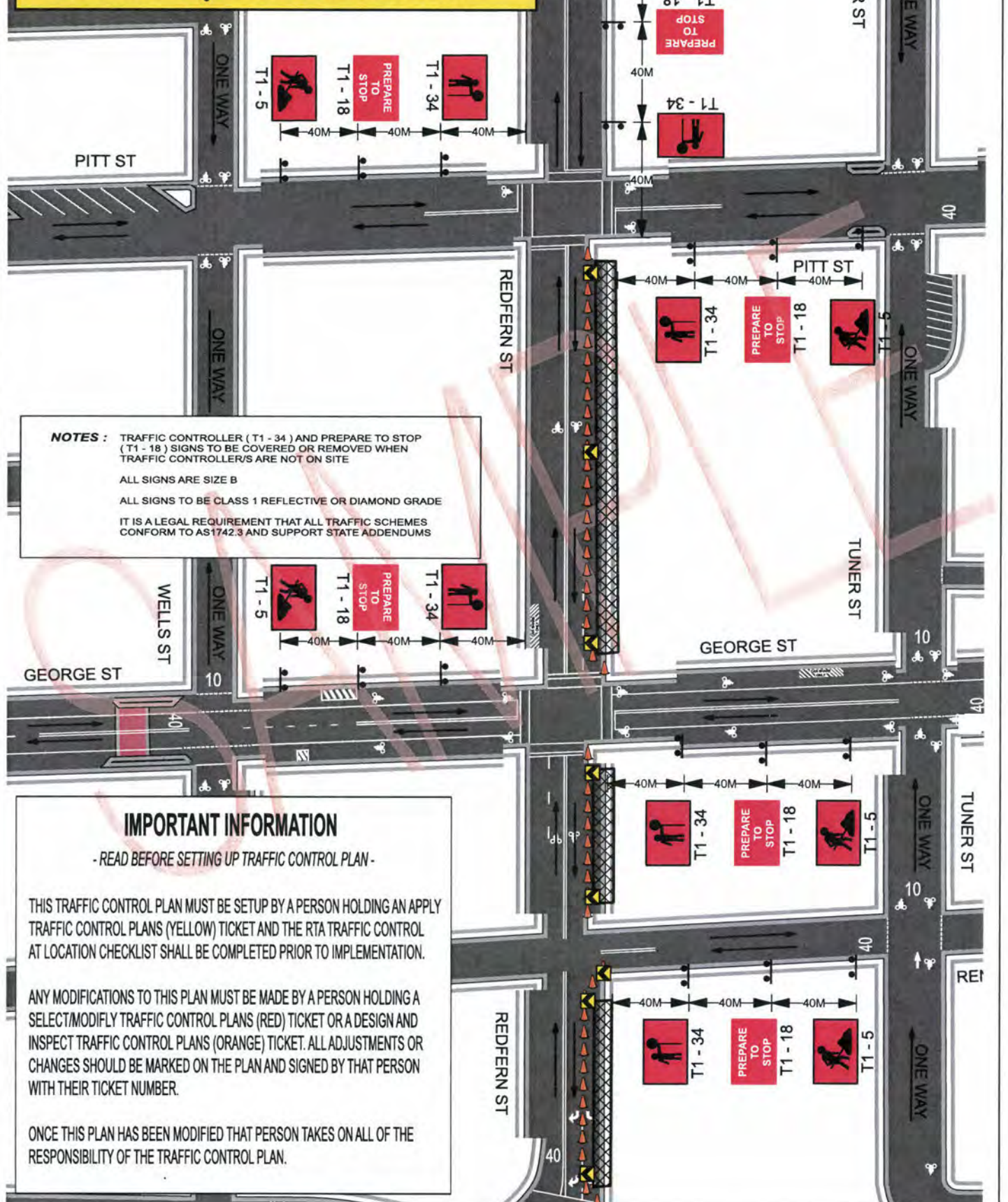
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CHRISTMAS DECORATIONS

- Redfern Street - Stage 4 - Traffic Control Plan No. VI 04 -



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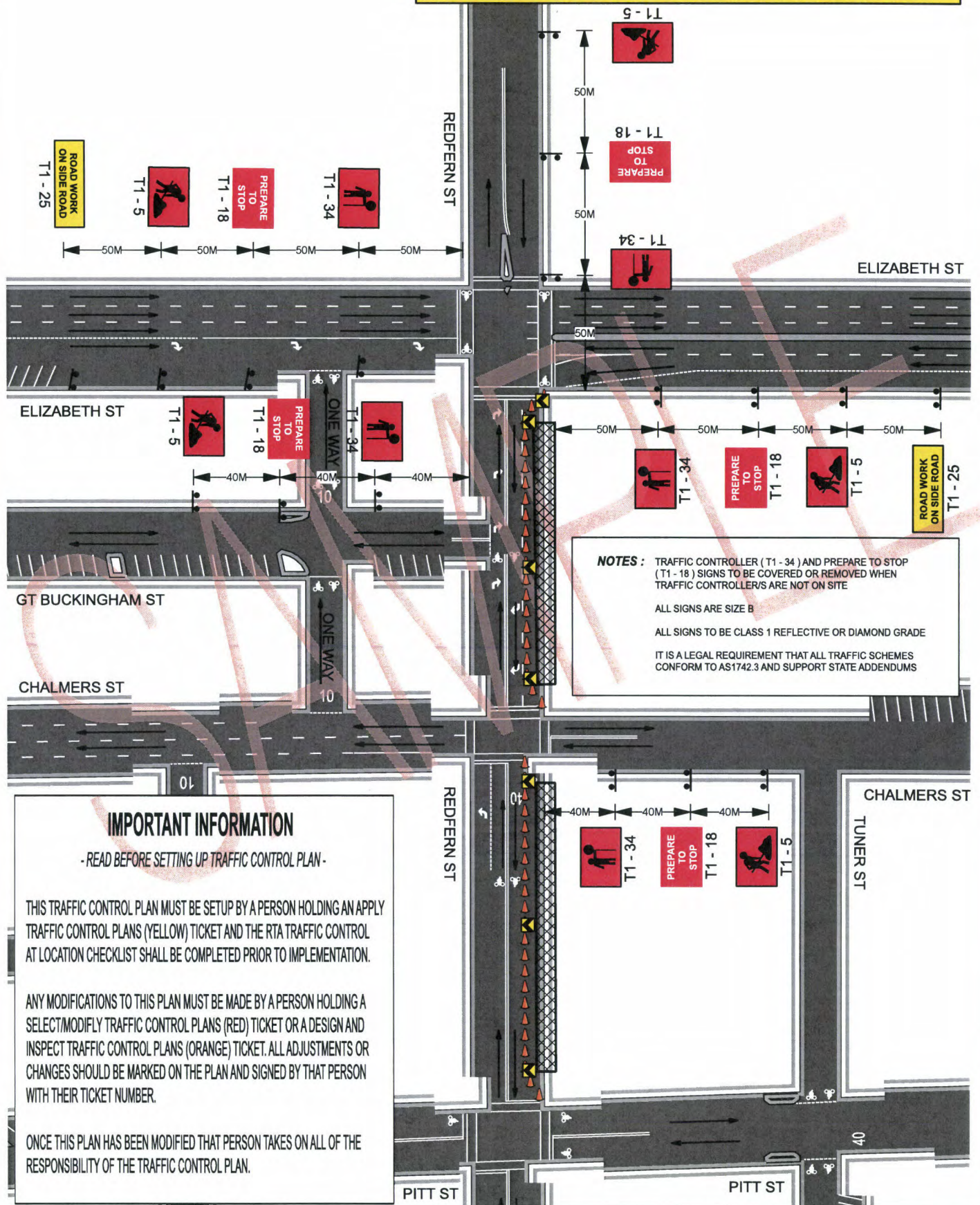
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CHRISTMAS DECORATIONS

- Redfern Street - Stage 3 - Traffic Control Plan No. VI 03 -



CHRISTMAS DECORATIONS

- Redfern Street - Stage 2 - Traffic Control Plan No. VI 02 -

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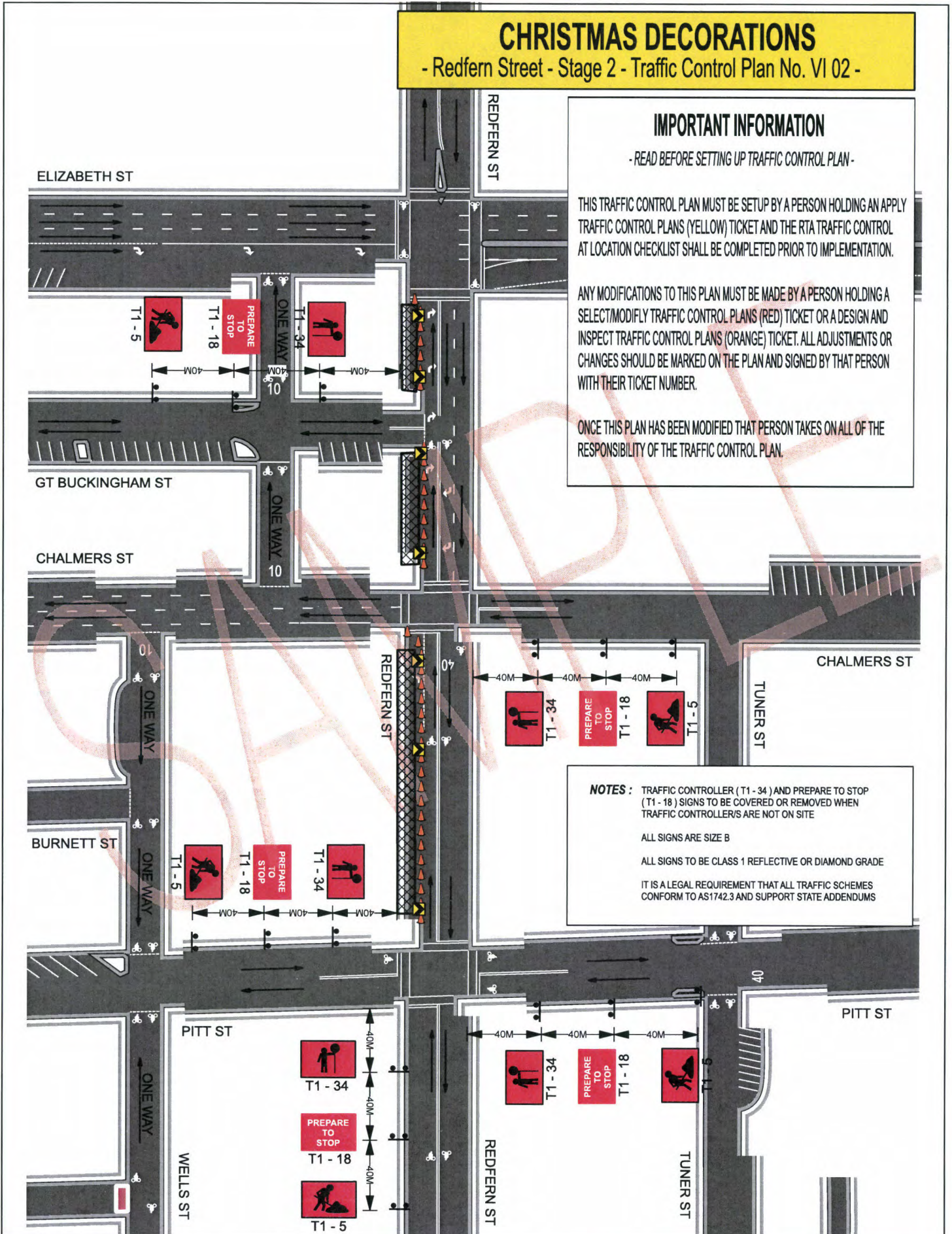
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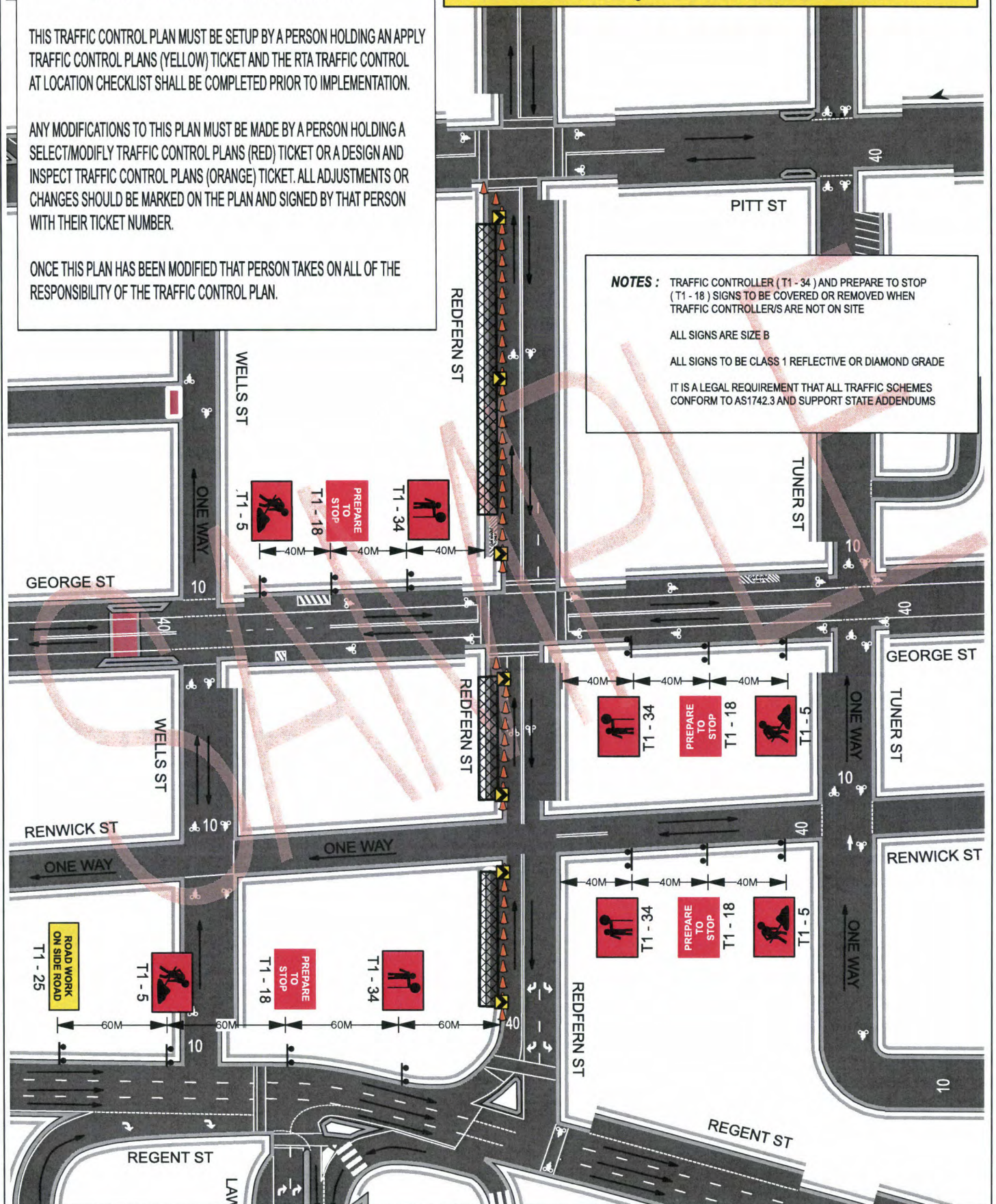
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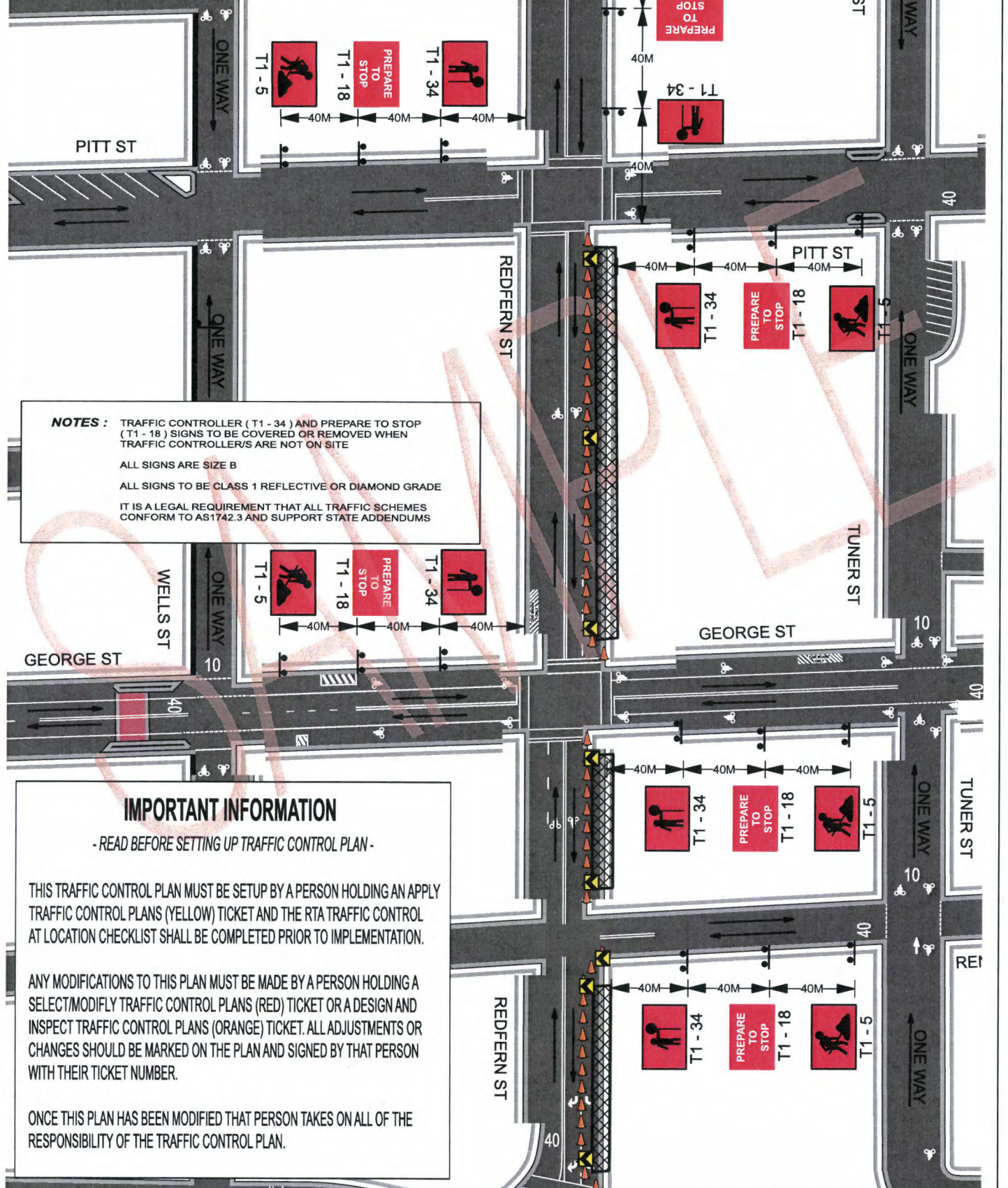
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CHRISTMAS DECORATIONS

- Redfern Street - Stage 4 - Traffic Control Plan No. VI 04 -



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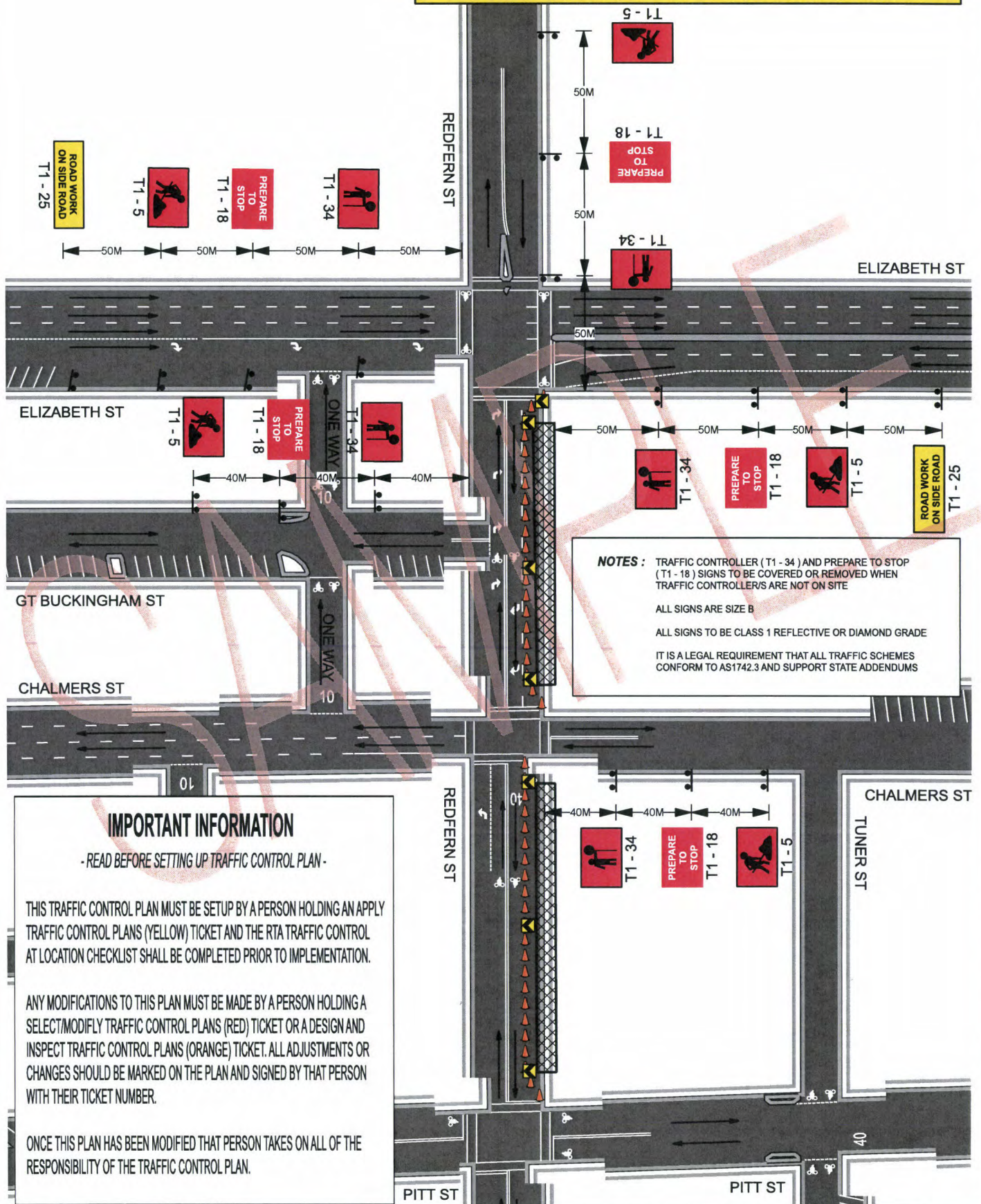
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CHRISTMAS DECORATIONS

- Redfern Street - Stage 3 - Traffic Control Plan No. VI 03 -



CHRISTMAS DECORATIONS

- Redfern Street - Stage 2 - Traffic Control Plan No. VI 02 -

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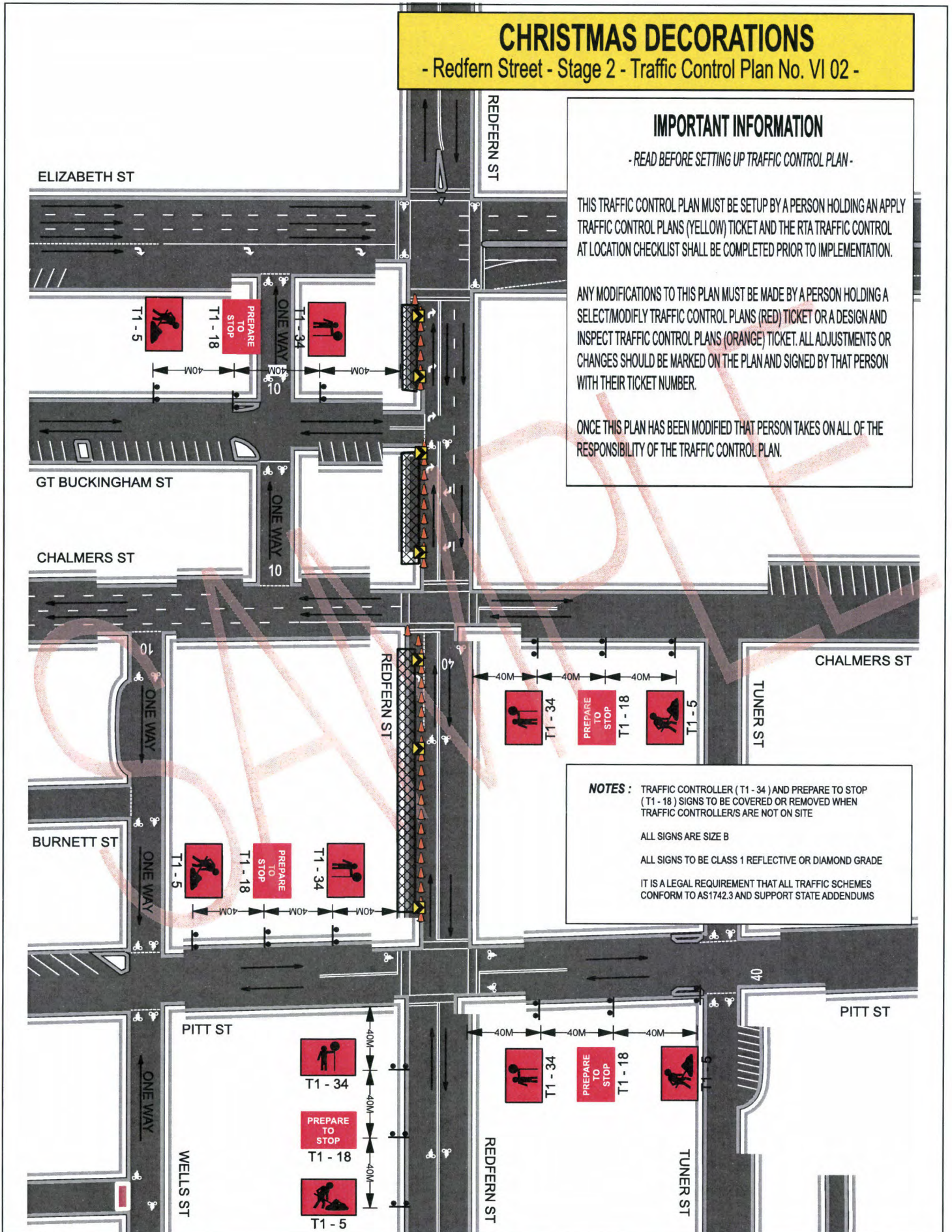
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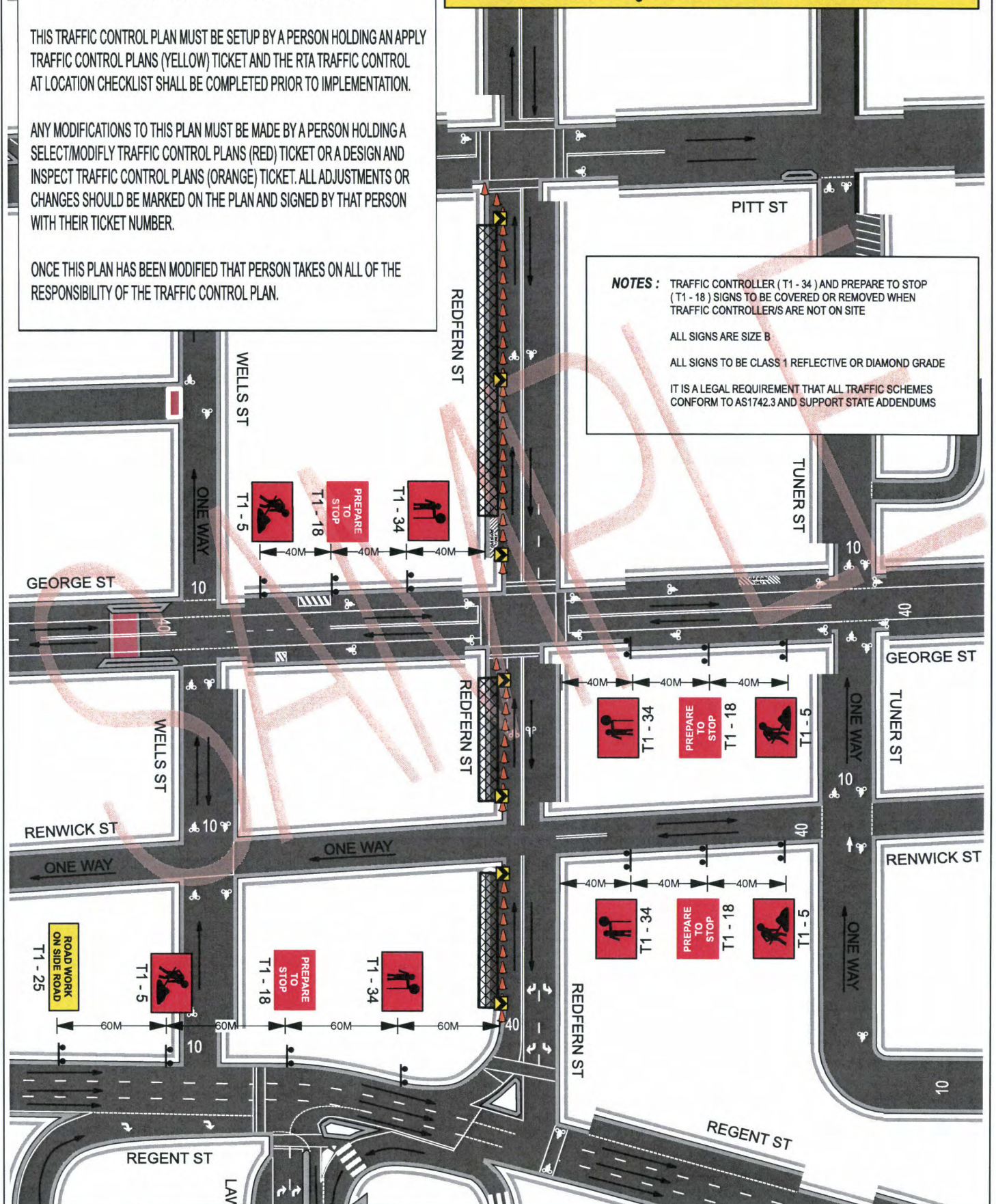
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CHRISTMAS DECORATIONS

- Redfern Street - Stage 1 - Traffic Control Plan No. VI 01 -



CHRISTMAS DECORATIONS

- Glebe Point Road - Stage 6 - Traffic Control Plan No. VI 10 -

IMPORTANT INFORMATION

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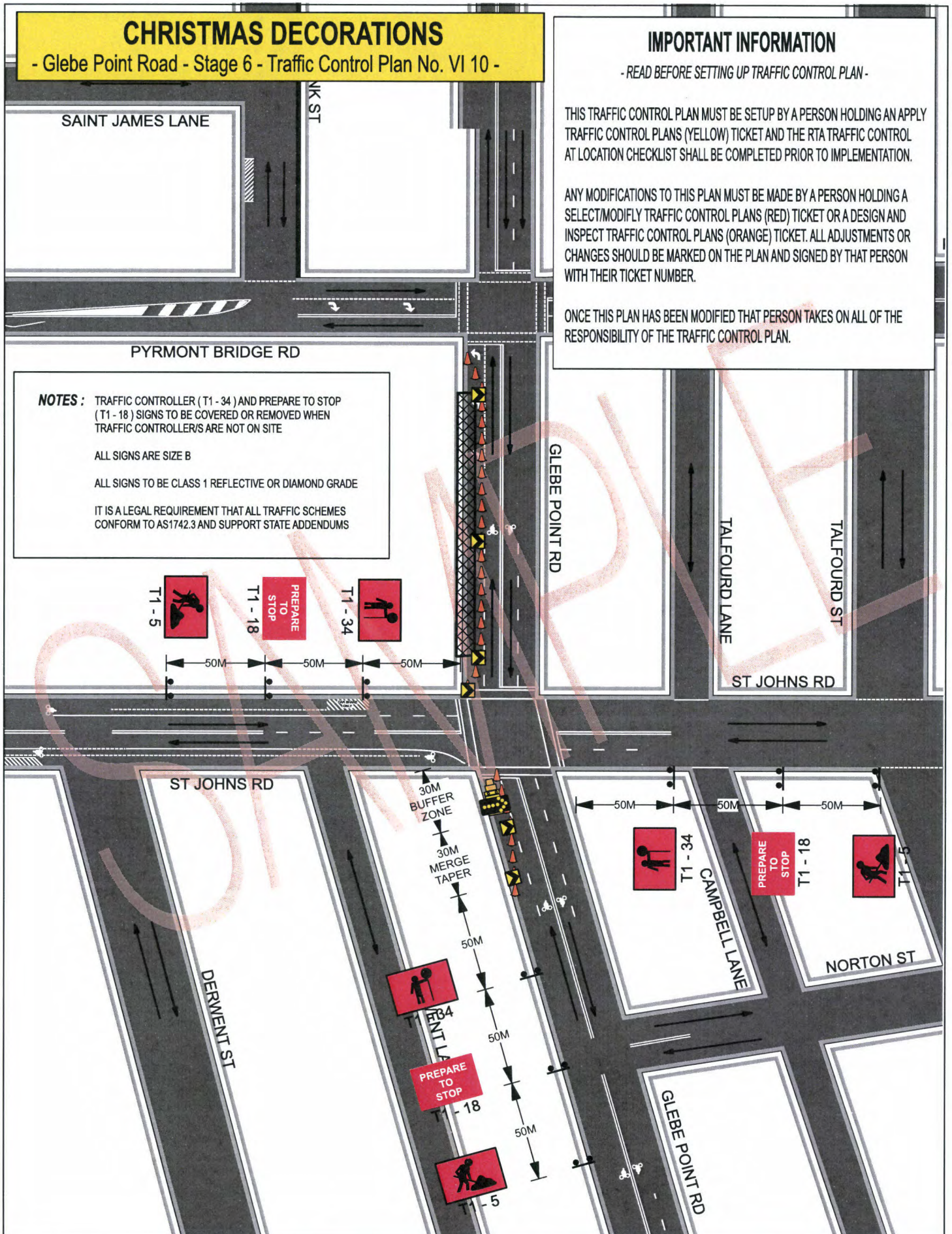
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ALL SIGNS ARE SIZE B

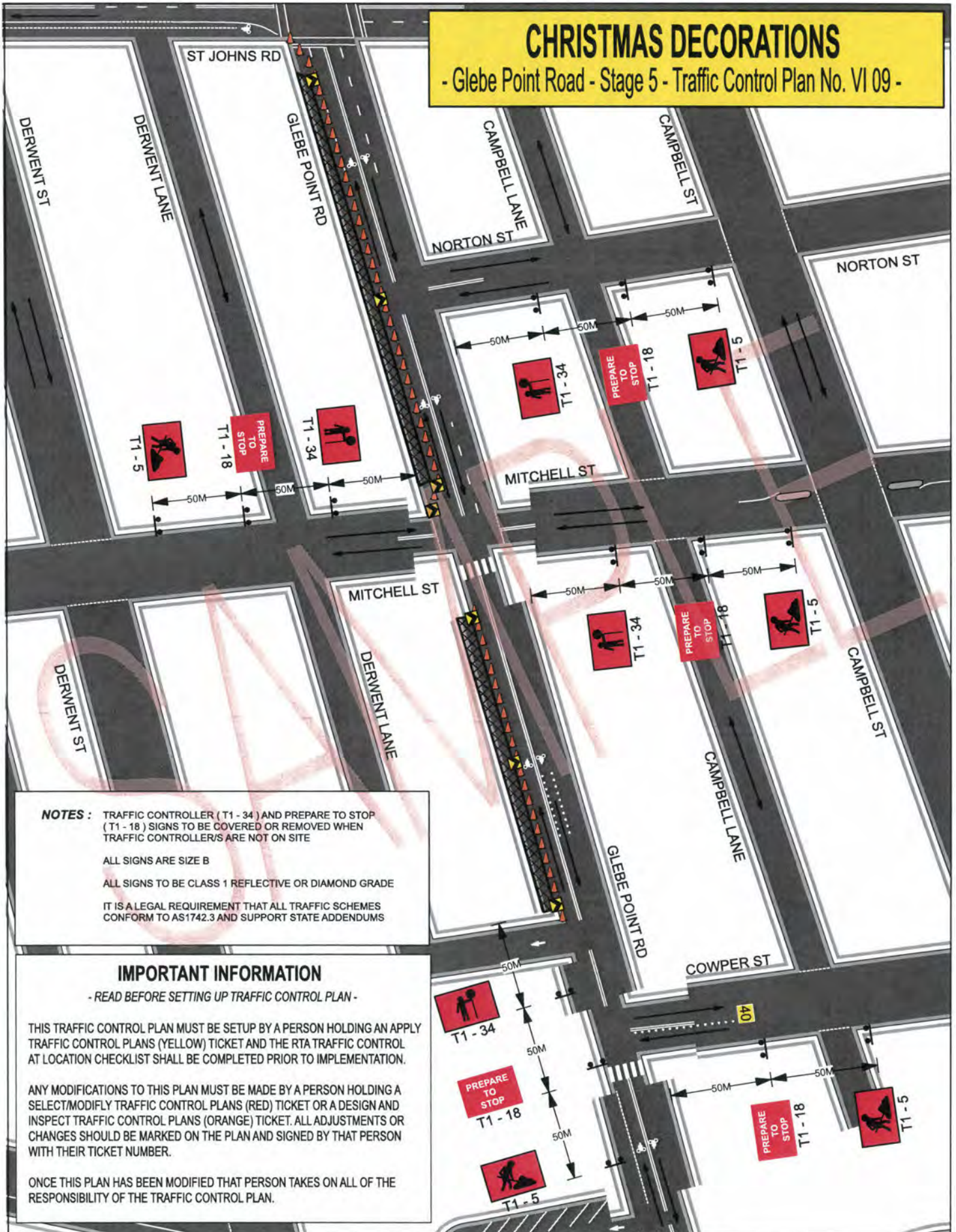
ALL SIGNS TO BE CLASS 1 REFLECTIVE OR DIAMOND GRADE

IT IS A LEGAL REQUIREMENT THAT ALL TRAFFIC SCHEMES CONFORM TO AS1742.3 AND SUPPORT STATE ADDENDUMS



CHRISTMAS DECORATIONS

- Glebe Point Road - Stage 5 - Traffic Control Plan No. VI 09 -



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CHRISTMAS DECORATIONS

- Glebe Point Road - Stage 4 - Traffic Control Plan No. VI 08 -

IMPORTANT INFORMATION

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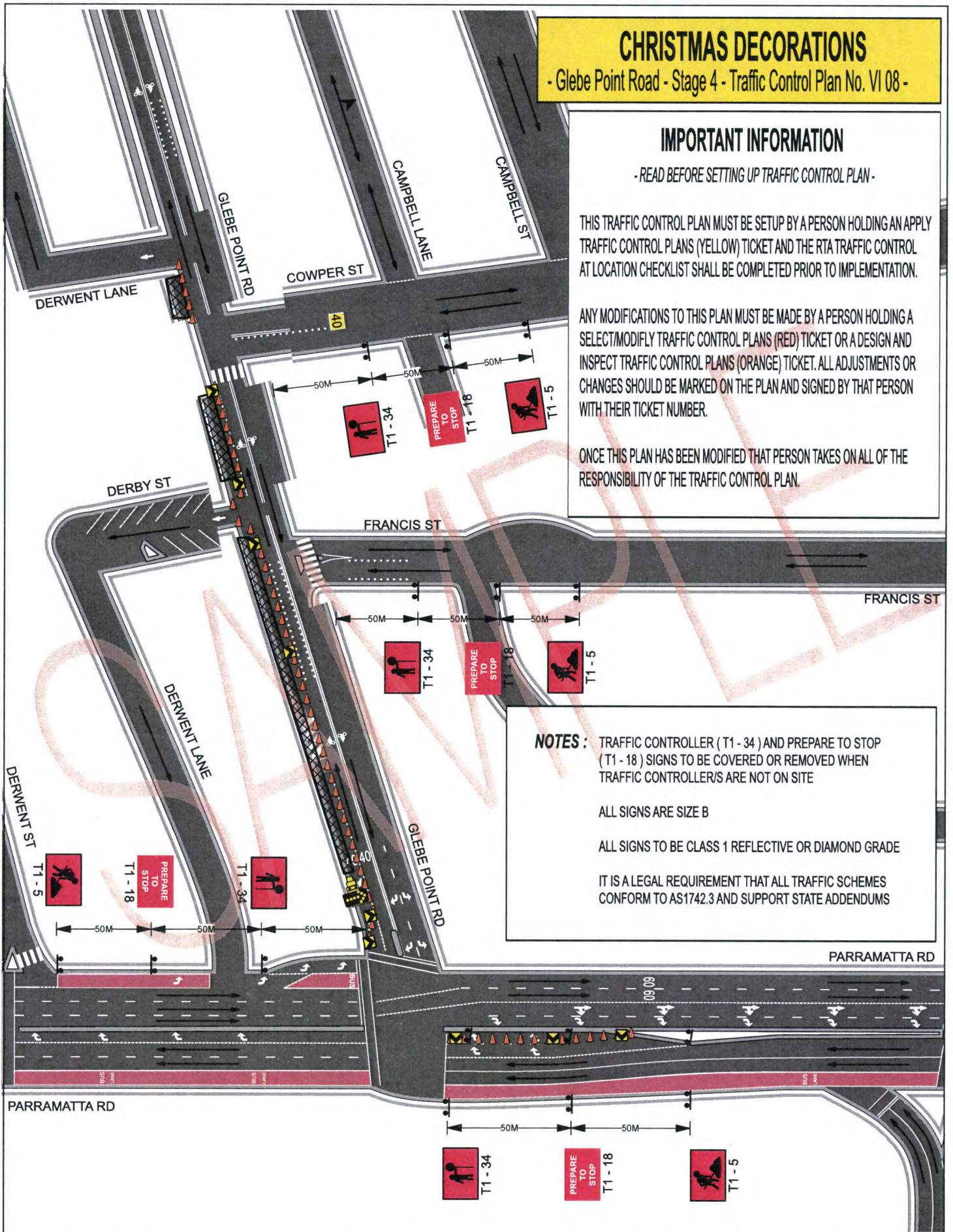
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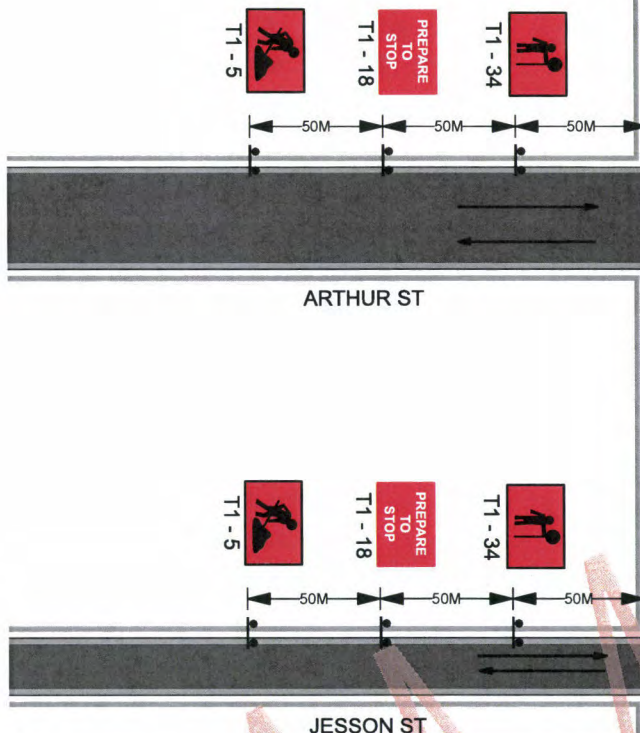
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CHRISTMAS DECORATIONS

- Crown St - Stage 4 - Traffic Control Plan No. VI 20 -



IMPORTANT INFORMATION

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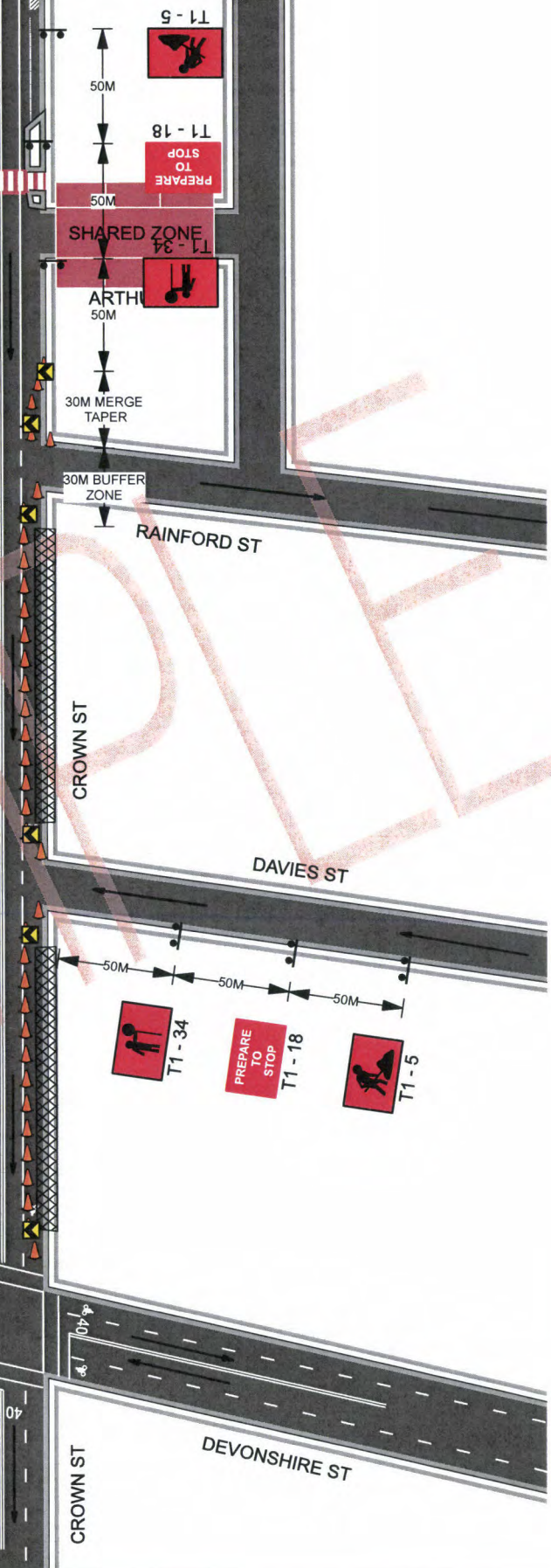
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CHRISTMAS DECORATIONS

- Crown St - Stage 3 - Traffic Control Plan No. VI 19 -

IMPORTANT INFORMATION

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CROWN ST

SHEAS LANE

FOVEAUX ST

FOVEAUX ST

CROWN ST

RICHARDS LANE

COLLINS ST

COLLINS ST

SHARED ZONE

NORTON ST

WITHERS LANE

ARTHUR ST

SHARED ZONE

ARTHUR ST

FITZROY ST

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CHRISTMAS DECORATIONS

- Crown St - Stage 2 - Traffic Control Plan No. VI 18 -

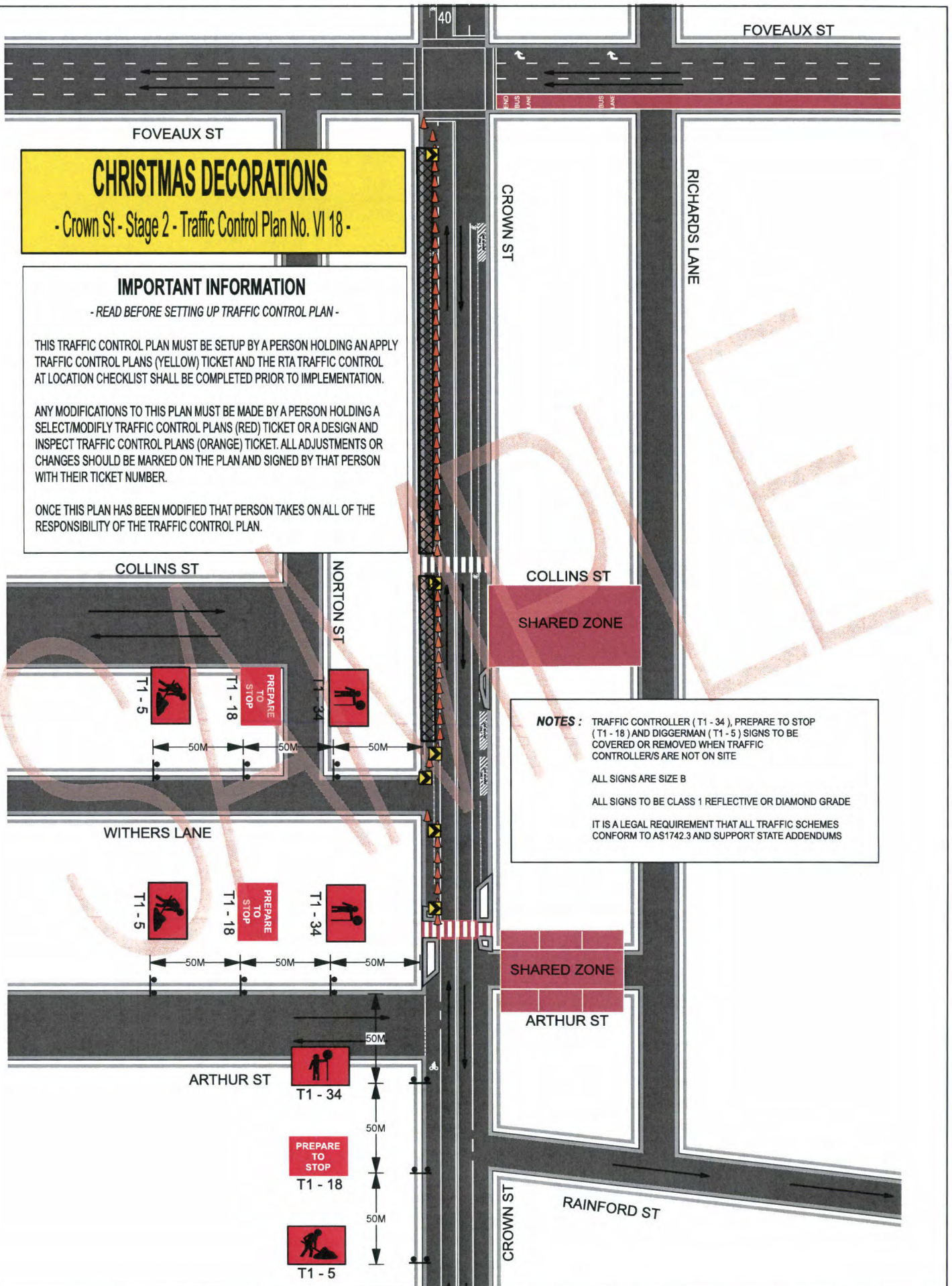
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CHRISTMAS DECORATIONS

- Crown St - Stage 1 - Traffic Control Plan No. VI 17 -

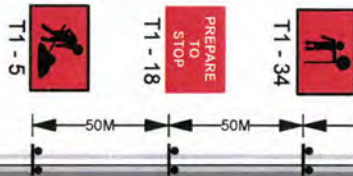
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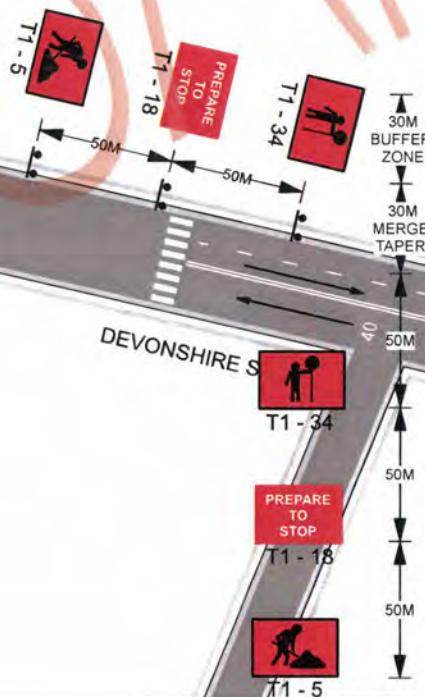
JESSON ST

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DEVONSHIRE ST

SHARED ZONE

ARTHUR ST

RAINFORD ST

DAVIES ST



DEVONSHIRE ST



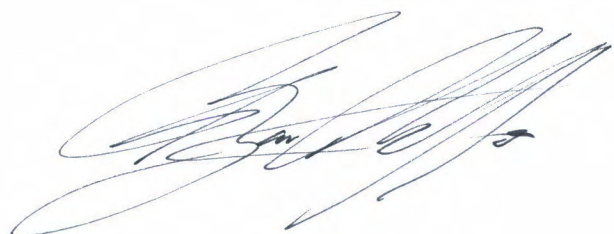
CROWN ST

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Sydney Christmas Infrastructure Design
City of Sydney
Scoundrel Projects
26th March, 2018.

DECORATIVE INSTALLATIONS

A stylized, handwritten signature in black ink, located at the bottom right of the page. The signature is fluid and cursive, with a large, sweeping initial 'S'.

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CONTACT DETAILS

Kate Gooden

Executive Producer

+61 2 8287 8800
+61 402 215 898
kate@scoundrel.co

3 Little Queen St
Chippendale NSW 2008
Australia.

James Dive

Project Director

+61 2 8287 8800
+61 431 526 055
james@scoundrel.co

3 Little Queen St
Chippendale NSW 2008
Australia.

Creative Overview

Our Approach



Tradition with a sprinkle of humour. That's the plan.

When combined, these two unsuspecting bedfellows create the perfect summation of a Sydney Christmas.

On one hand Sydney loves its rigid tradition - we love our elegant trees, our ornate decorations, and dazzling lights.

But on the other hand there is an undeniable levity to Christmas in Sydney. Maybe it is the heat, maybe it is cocktail umbrellas, but the festive season in Sydney seems to just take itself a little less seriously.

Our role is to capture this unique dual love. Let's celebrate a love of Christmas tradition imbued with a very Sydney wink.

As we have been surveying Sydney we've realised just how wonderfully diverse each site is ranging from the civic grandeur of Martin Place to the iconic multiculturalism of Redfern Village.

We quickly realised that what we needed to do was to create a design language that could respond creatively and technically to each environment according to its own logic and narrative. Thematically our design language works as a consistent palette but as we will illustrate it will be applied specifically in different ways.

We have incorporated the traditional elements of Christmas - the star, the bauble, the ribbons and of course the twinkly magic of fairy lights - with an abstract rather than literal representation.

... so a traditional Christmas but with a dynamic and local twist.

Spiral Ribbon Star Kinetic and Illuminated

These beautiful hanging ornaments evoke the concept of a colourful Christmas tree draped with fairy lights, complimented by a star.

Our execution is abstract. This creates a sense of wonder and engagement.

Our spiralling ribbons are to be created out of fibreglass with a high gloss automotive finish. A track of programmable LED lights run the length of the ribbon edges. These ribbons will spin in the breeze creating a magical spiral of colour and light. At the base will be an illuminated star encapsulating a sense of hope and majesty for a very Sydney Christmas.



Spiral Ribbon Star
Future Possible Colour Combinations - Metallic Gold



Spiral Ribbon Star
Future Possible Colour Combinations - Metallic Silver



Twirling Ribbon Bauble

Kinetic and Illuminated



As a pair



Singular

Majestic illuminated baubles hanging from a luscious curled ribbon.

The colour palette of red and white evokes thoughts of Christmas; from Santa's suit to delicious candy canes.

These twirling ribbons are to be created out of fibreglass with a high gloss automotive finish. These ribbons will spin in the breeze creating a magical spiral of colour and energy.

Installation by Site Schedule

DECORATIVE INSTALLATIONS - Note X means YES

YEAR OF INSTALLATION	2018	2019	2020	2021	2022
MARTIN PLACE, SYDNEY CBD	X	X	X	X	X
GEORGE STREET, SYDNEY CBD		X	X	X	X
PITT STREET MALL, SYDNEY CBD		X	X	X	X
GREEN SQUARE	X	X	X	X	X
ERSKINVILLE ROAD, ERSKINVILLE			X	X	X
CROWN STREET, SURRY HILLS			X	X	X
REDFERN STREET, REDFERN				X	X
DARLINGHURST ROAD, DARLINGHURST				X	X
GLEBE POINT ROAD, GLEBE				X	X

The Process Requirements and Approvals

Allocation of decorative elements to be directed by Scoundrel Projects upon receipt of plan and survey of each location from City of Sydney.

Quantities will be ascertained from above said information to be supplied by City of Sydney.

A prototype of 1 x Spiral Ribbon Star decoration to be produced for approval by Scoundrel Projects.

A prototype of 1 x Twirling Ribbon Bauble decoration to be produced for approval by Scoundrel Projects.

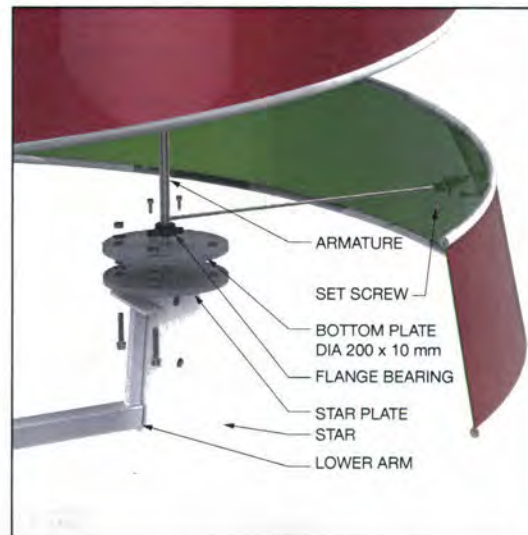
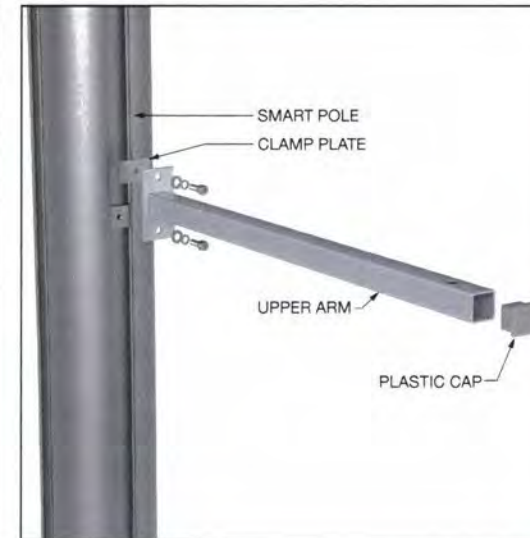
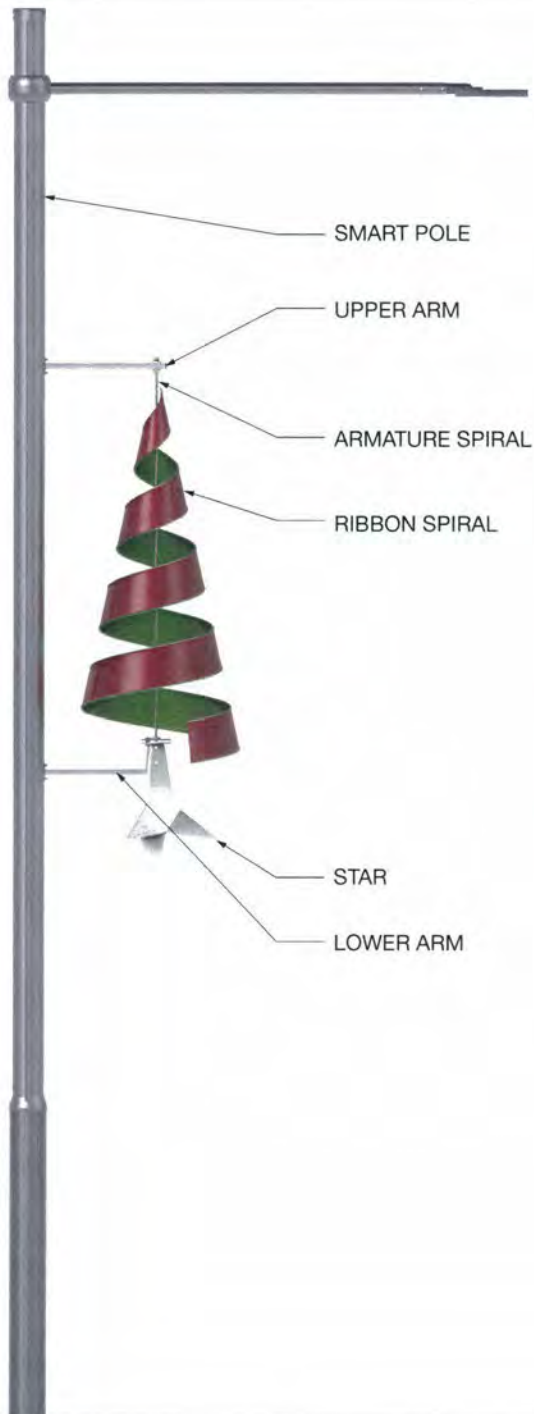
3D CAD Models of Decorative Installations available upon request.

Colour specification to be provided by Scoundrel Projects.

Cantenary documentation for Martin Place fairy light canopy to be provided by Scoundrel Projects.

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1. SPIRAL RIBBON STAR - DESIGN AND STRUCTURE



NOTES

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCEng NEK (Structural) KPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)

DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

DRAFT
NOT FOR CONSTRUCTION

scoundrel

3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
SPIRAL RIBBON STAR
ASSEMBLY

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
21.3.18

SCALE
N/A

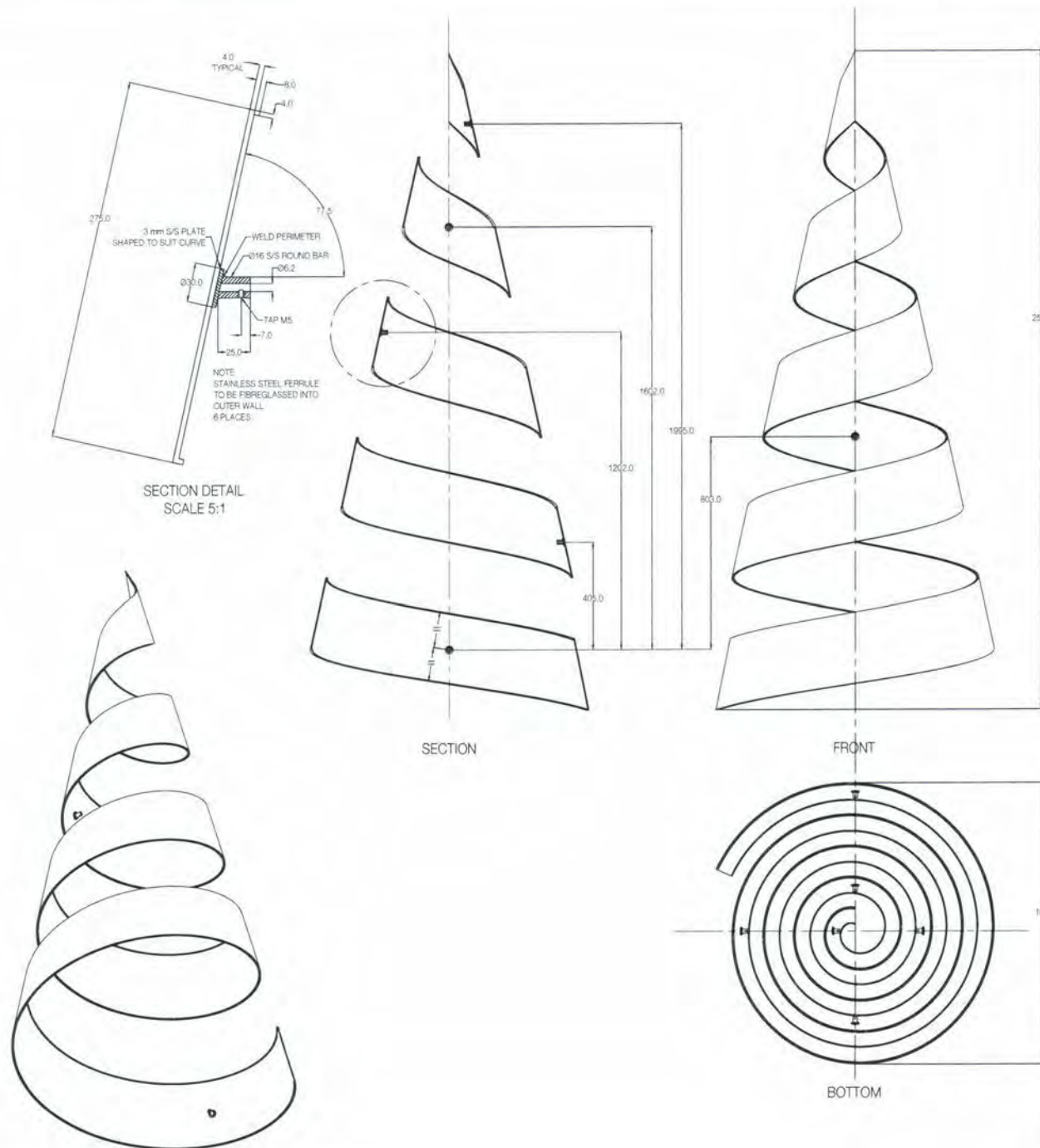
SHEET No.
001

DRAWING BY
SCA

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING

17-19 O'Conner St.
Chippendale NSW 2008
ph. 02 9690 1734



NOTES

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy

Morgan Sheehy
MEng (Hons) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

DRAFT
NOT FOR CONSTRUCTION

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
RIBBON SPIRAL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
21.3.18

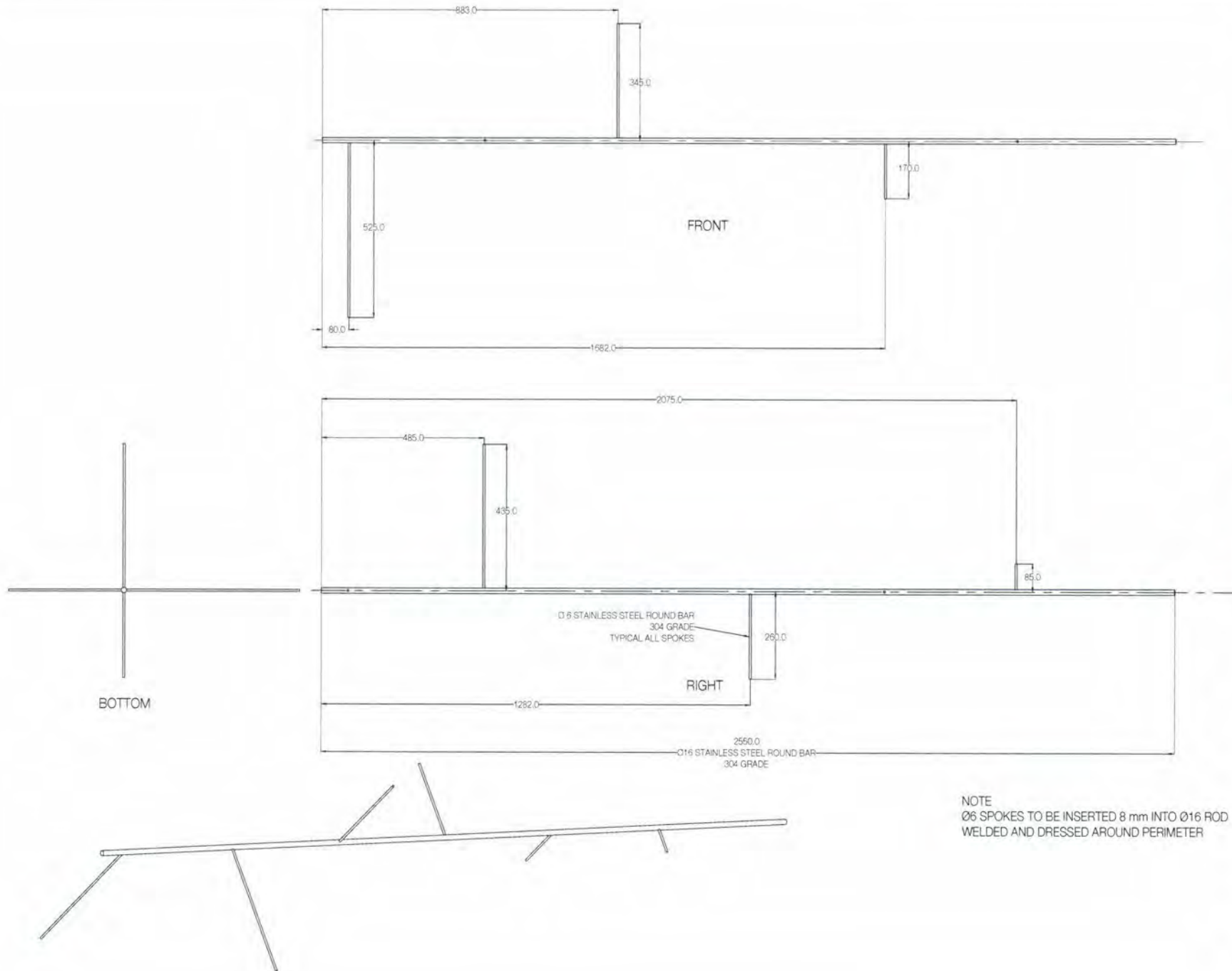
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SHEET No.
002

DRAWING BY
SCA

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9590 1734



NOTES

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MILAusCPeng RE-R (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

DRAFT
NOT FOR CONSTRUCTION

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
ARMATURE SPIRAL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
21.3.18

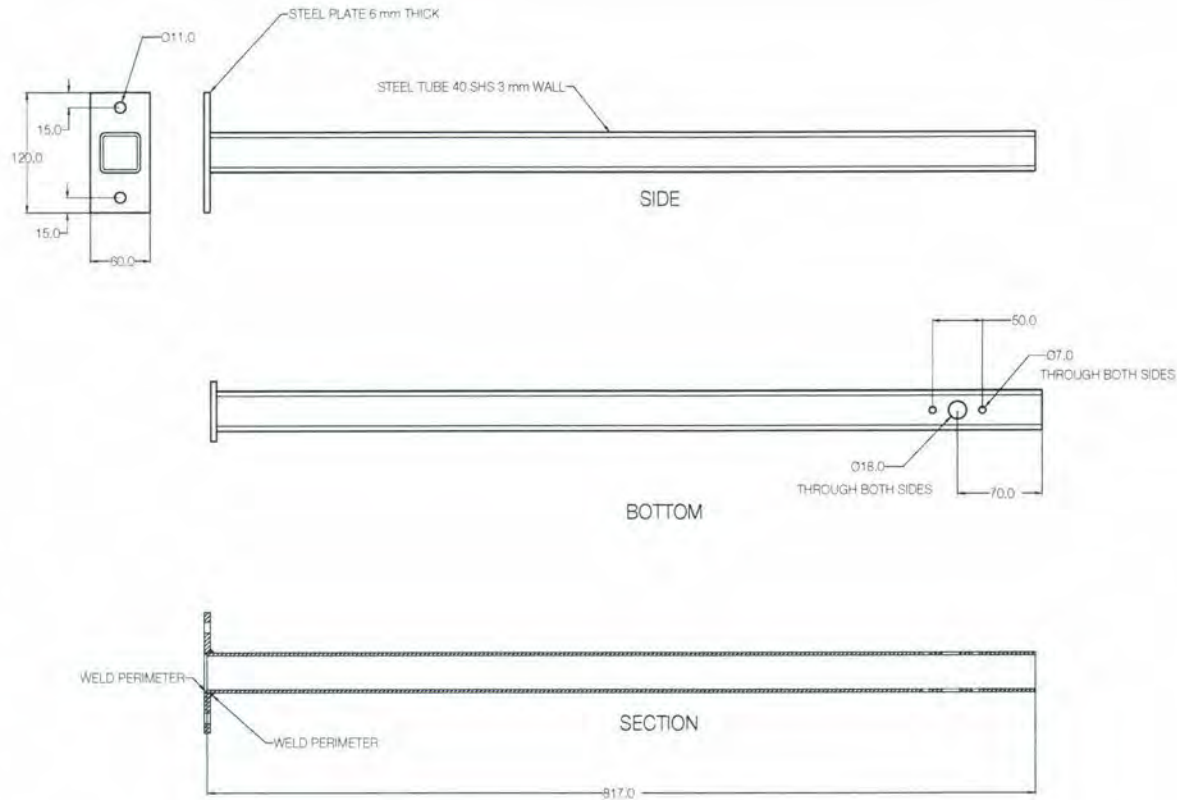
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SHEET No.
003

DRAWING BY
SCA

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph 02 9690 1734



NOTE
WELDS TO CONFORM TO AS/NZS 1554 PART 1
ALL STEEL TO BE FULLY HOT DIP GALVANIZED AFTER
FABRICATION IN ACCORDANCE WITH AS/NZS 4680

FINISH = POWDER COAT SILVER RAL 9006

NOTES

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy
MEng (Hons 1) Tech Cert Eng (Civil)
MBAustCPeng NEH (Structural) NP&Q
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

DRAFT
NOT FOR CONSTRUCTION

scoundrel

3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
UPPER ARM SPIRAL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
21.3.18

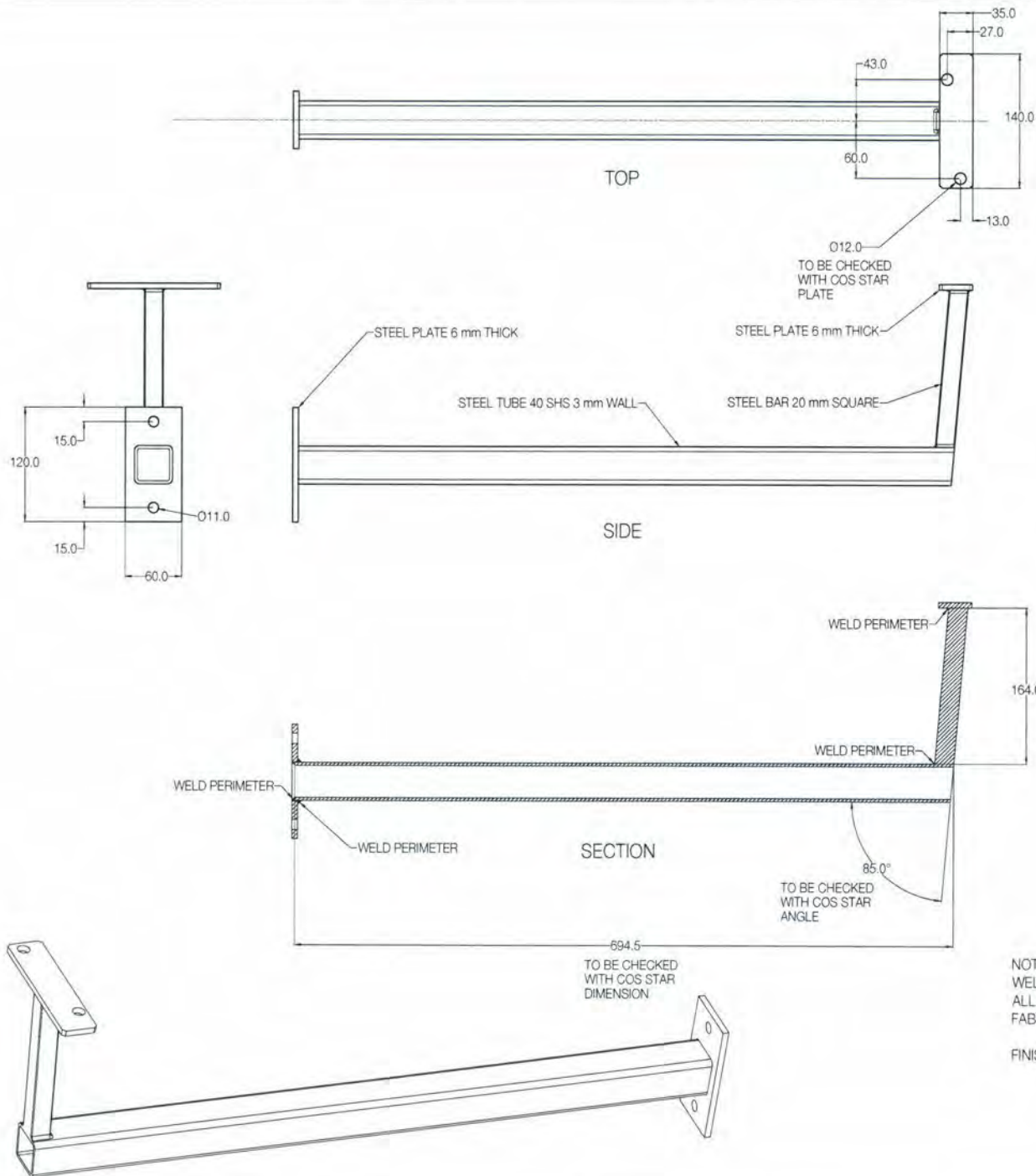
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SHEET No.
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DRAWING BY
SCA

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9590 1734



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 (Civil Engineer)

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DRAFT
 NOT FOR CONSTRUCTION

scoundrel

3 LITTLE QUEEN ST
 CHIPPENDALE NSW 2008
 AUSTRALIA
 +61 2 8287 8800

PROJECT
 SYDNEY CHRISTMAS
 INFRASTRUCTURE DESIGN

CLIENT
 CITY OF SYDNEY

DRAWING TITLE
 LOWER ARM SPIRAL

CREATIVE DIRECTOR
 JAMES DIVE

EXECUTIVE PRODUCER
 KATE GOODEN

DATE
 21.3.18

SCALE
 N/A

SHEET No
 005

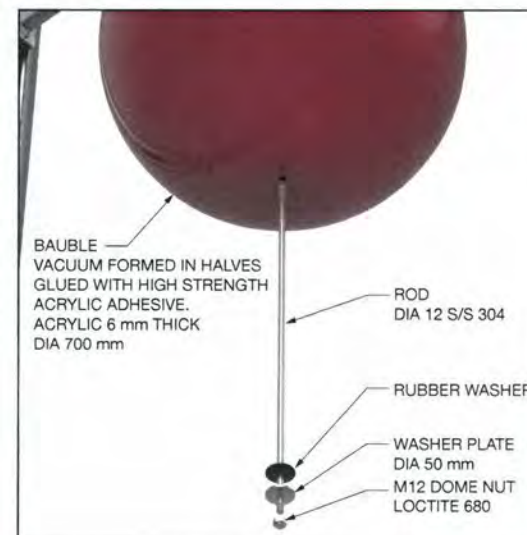
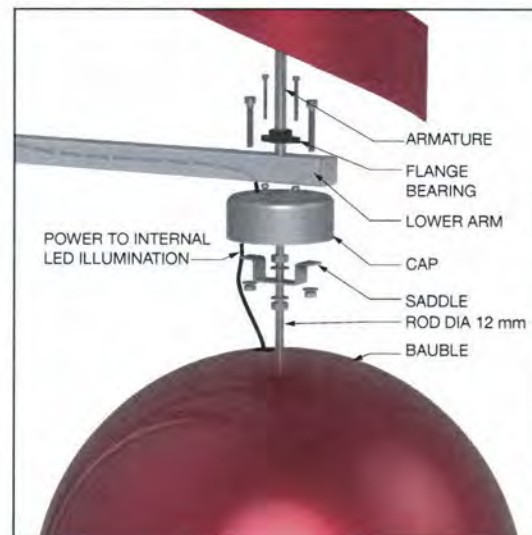
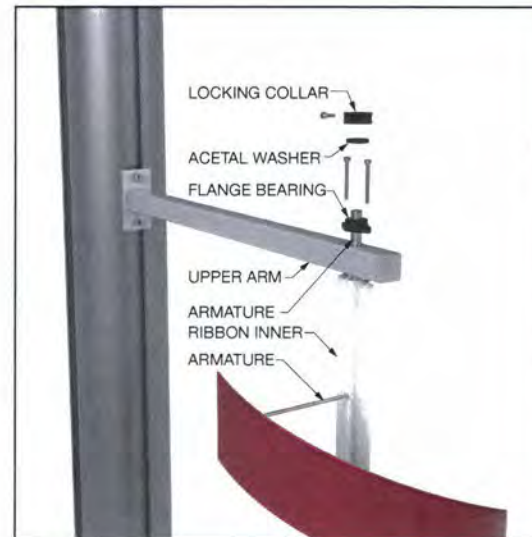
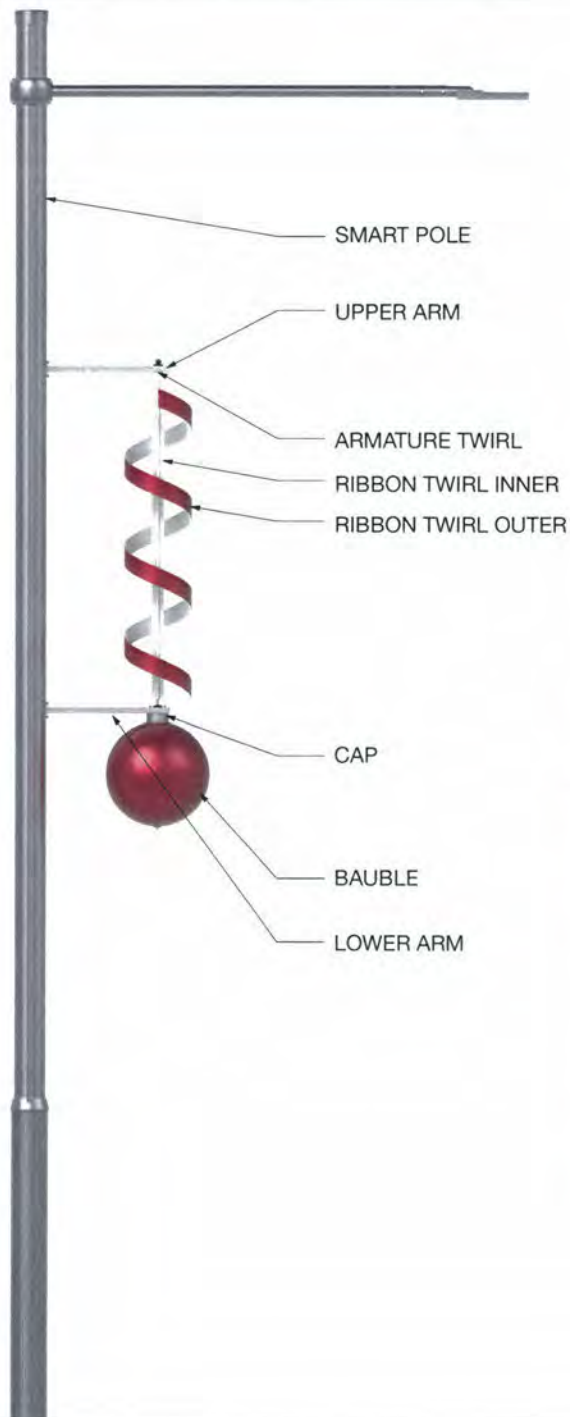
DRAWING BY
 SCA

CONSULTING DESIGNER
 SAM HOBBS
 samhobbsproductiondesign.com
 +61 419 981 781

CONSULTING ENGINEER
EVENT
 ENGINEERING
 17-19 O'Conner St
 Chippendale NSW 2008
 ph: 02 9690 1734

scoundrel

2. TWIRLING RIBBON BAUBLE - DESIGN
AND STRUCTURE



NOTES

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy
Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civl)
MIE Aust CP Eng NER (Structural) RPL Q
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
TWIRL RIBBON BAUBLE
ASSEMBLY

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
21.3.18

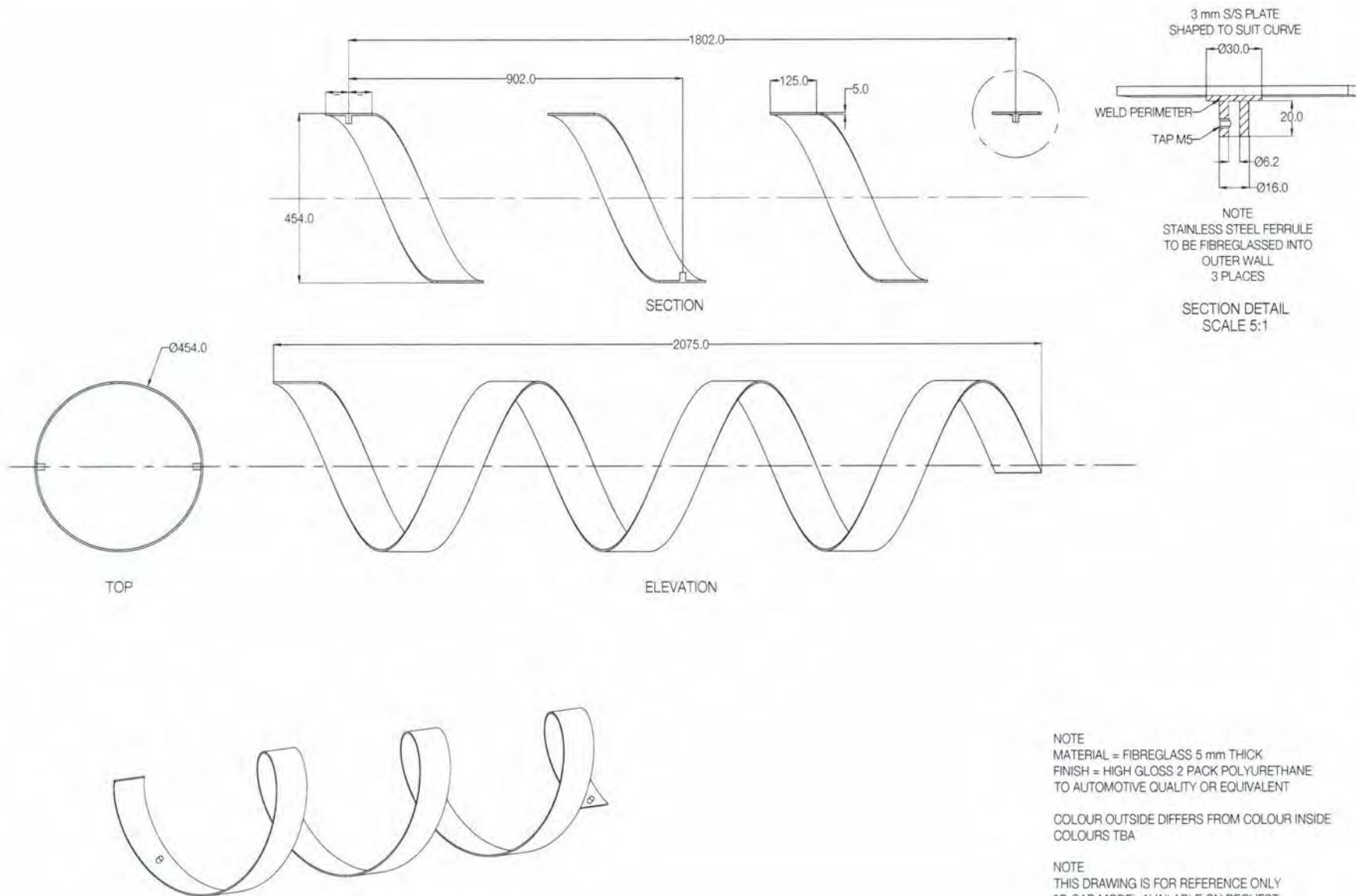
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SHEET No
006

DRAWING BY
SCA

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph 02 9690 1734



Approved By: Morgan Sheehy
Signed:

Morgan Sheehy

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAust/CPEng NEH (Structural) RP&Q
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
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AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
RIBBON TWIRL OUTER

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
21.3.18

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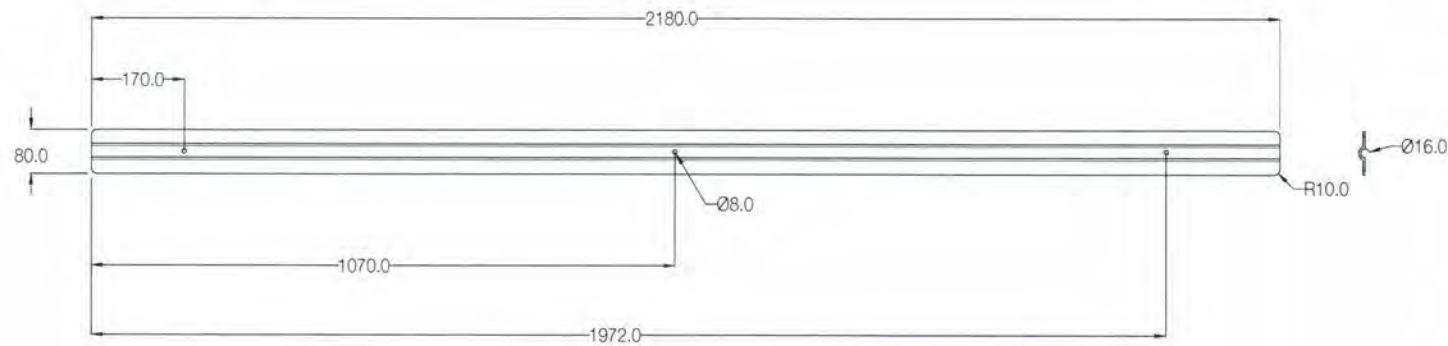
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007

DRAWING BY
SCA

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 961 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph. 02 9690 1734

NOTES



Approved By: Morgan Sheehy
Signed:

Morgan Sheehy
MEng (Hons 1) Tech Cert Eng (Civil)
MBAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC E.C. 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

DRAFT
NOT FOR CONSTRUCTION

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
RIBBON TWIRL INNER

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
21.3.18

SCALE
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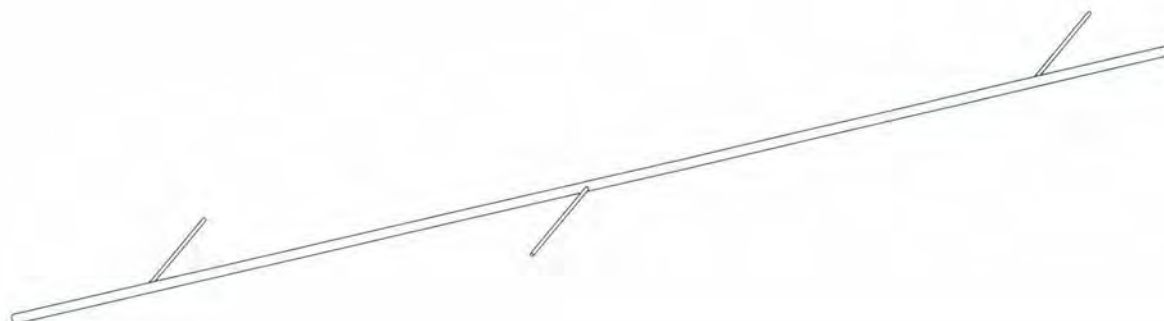
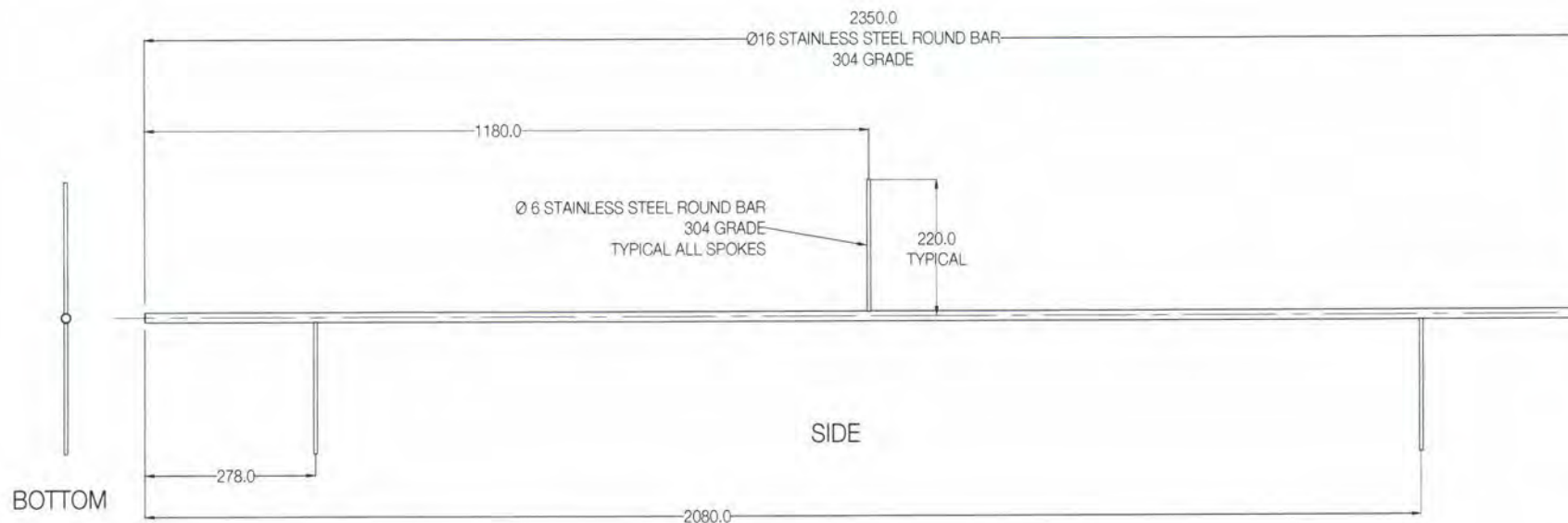
SHEET No
008

DRAWING BY
SCA

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph. 02 9690 1734

NOTE
2 OFF PER ASSEMBLY BONDED AROUND ARMATURE
MATERIAL = FIBREGLASS 4 mm THICK
FINISH = HIGH GLOSS 2 PACK POLYURETHANE
TO AUTOMOTIVE QUALITY OR EQUIVALENT



NOTE
Ø6 SPOKES TO BE INSERTED 8 mm INTO Ø16 ROD
WELDED AND DRESSED AROUND PERIMETER

NOTES

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC E.C. 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
ARMATURE TWIRL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
21.3.18

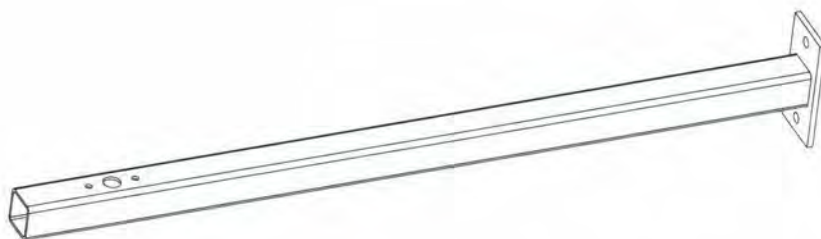
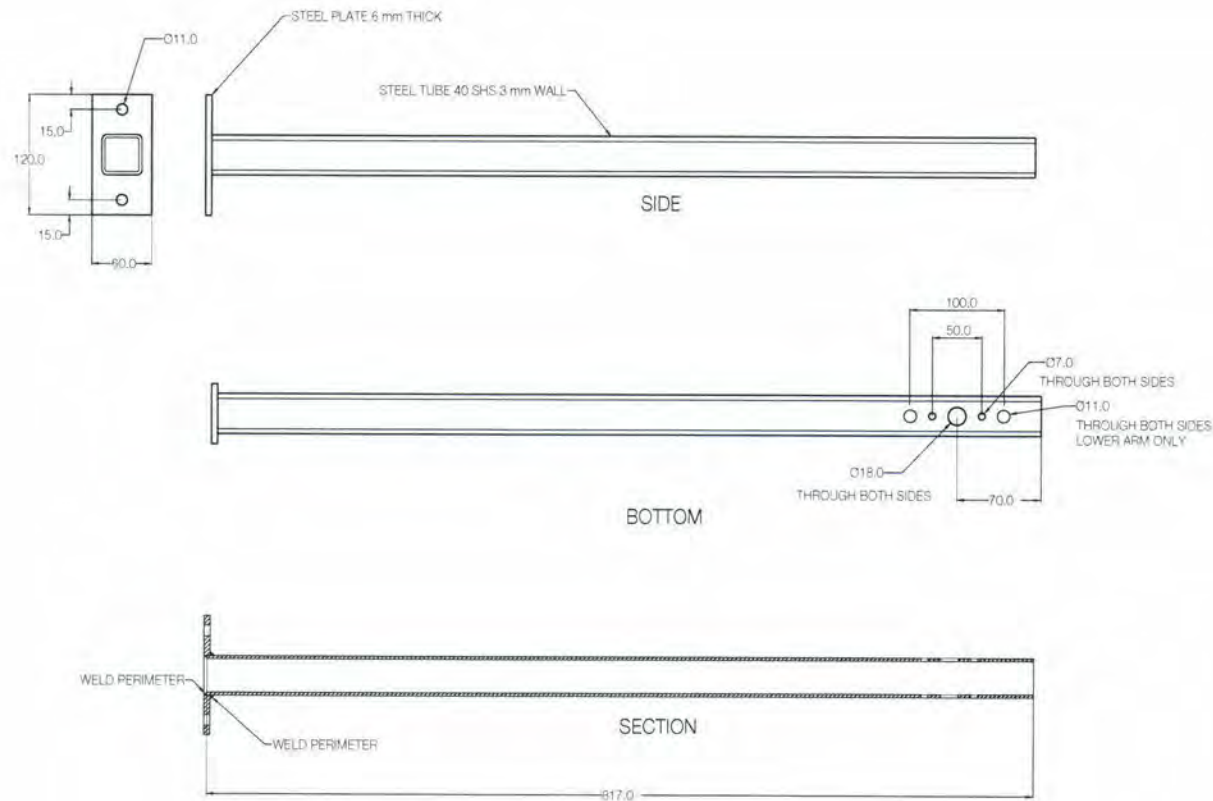
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SHEET No
009

DRAWING BY
SCA

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734



NOTE
WELDS TO CONFORM TO AS/NZS 1554 PART 1
ALL STEEL TO BE FULLY HOT DIP GALVANIZED AFTER
FABRICATION IN ACCORDANCE WITH AS/NZS 4680

FINISH = POWDER COAT SILVER RAL 9006

NOTES

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
UPPER ARM TWIRL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
21.3.18

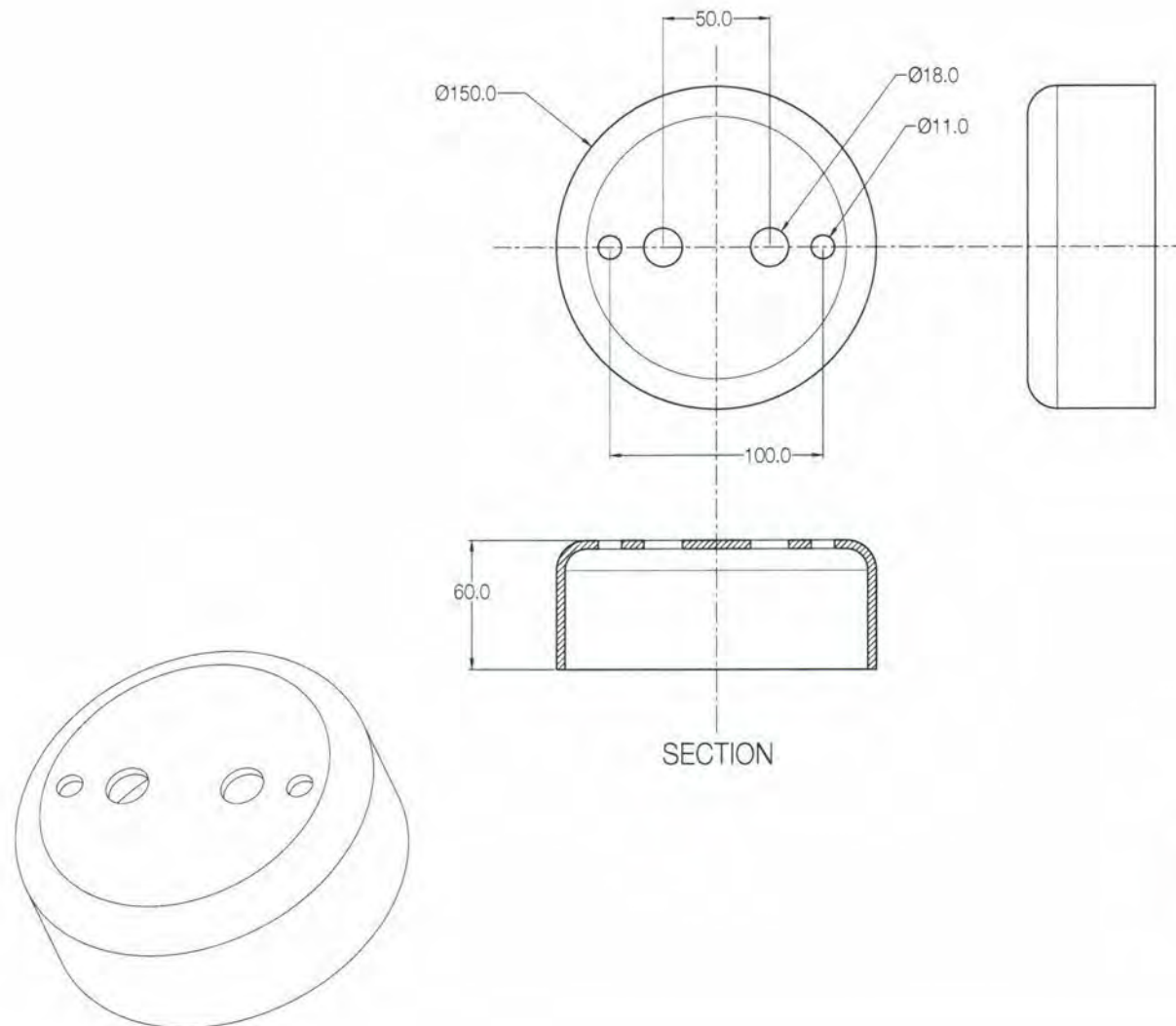
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SHEET No
010

DRAWING BY
SCA

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph. 02 9690 1134



NOTE
MATERIAL = SPUN ALUMINIUM 4 mm THICK
FINISH = ANODIZED SATIN SILVER 15 Um

NOTES

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy

Morgan Sheehy
MEng (Hons) / Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
CAP TWIRL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
21.3.18

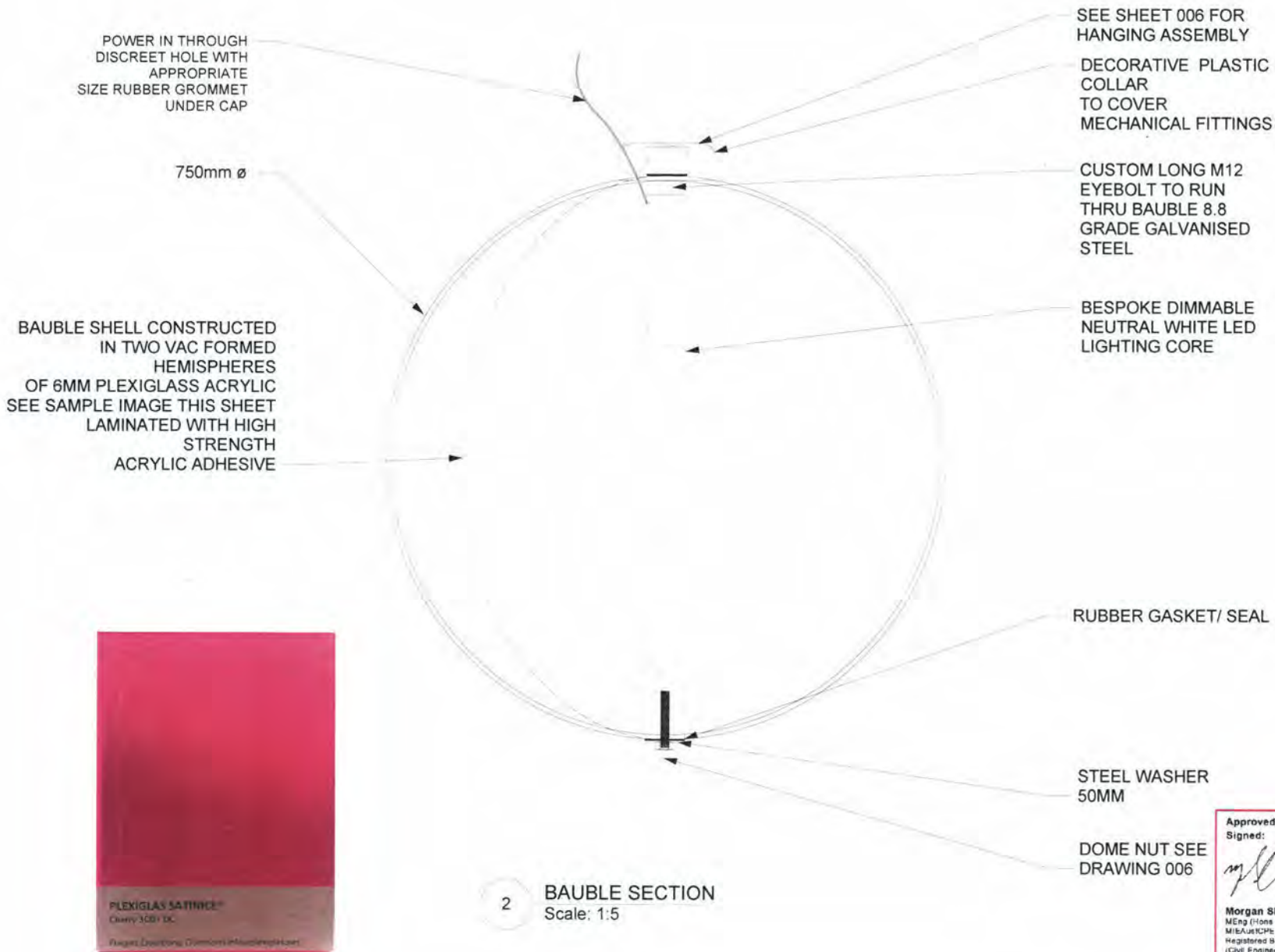
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SHEET No
011

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SCA

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 951 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734



GENERAL NOTES

1. BAUBLE SHELL TO BE CONSTRUCTED IN TRANSLUCENT 6MM PLEXIGLASS SATIN ICE CHERRY 3C01 DC. SHELL MADE FROM TWO VAC FORMED HEMISPHERES LAMINATED TOGETHER ALONG ITS VERTICAL SEAM.
MATT ONE SIDE (INSIDE)
HIGH GLOSS ONE SIDE (OUTSIDE)

RECOMMENDED BAUBLE MANUFACTURER
B & M PLASTICS,
32 LARA ST
YENNORA NSW 2161

2. WEIGHT OF EACH UNIT NOT TO EXCEED 20KG

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
BAUBLE SECTION

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE	SCALE
28.02.18	1:5 @ A3

DRAWING No.	DRAWING BY
012	SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS samhobbsproductiondesign.com +61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING 17-19 O'Conner St. Chippendale NSW 2008 ph 02 9690 1734

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy
MEng (Hons II) Tech Cert Eng (Civil)
MBAus1000mg NEM (Structural) NREQ
Registered Building Practitioner VIC 41349
(Civil Engineer)

DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

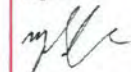
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3. DECORATIVE STAR

NOTES

EX HUB

Approved By: Morgan Sheehy
Signed:



Morgan Sheehy
MEng (Hons 1) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)

DIRECTOR - EVENT ENGINEERING

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CHIPPENDALE NSW 2008
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PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

STAR DETAIL

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

21.3.18

SCALE

N/A

SHEET No.

012

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SCA

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph. 02 9690 1734



FRONT

SIDE



BOTTOM



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4. MARTIN PLACE

4. Martin Place Design Allocation



The Spiral Ribbon Star - Kinetic and Illuminated

Alternate usage of ornaments in colour combinations of:

1. Passive spinning red on green ribbon with white illuminated star.
2. Passive spinning green on red ribbon with white illuminated star.

4. Martin Place Street Decorations



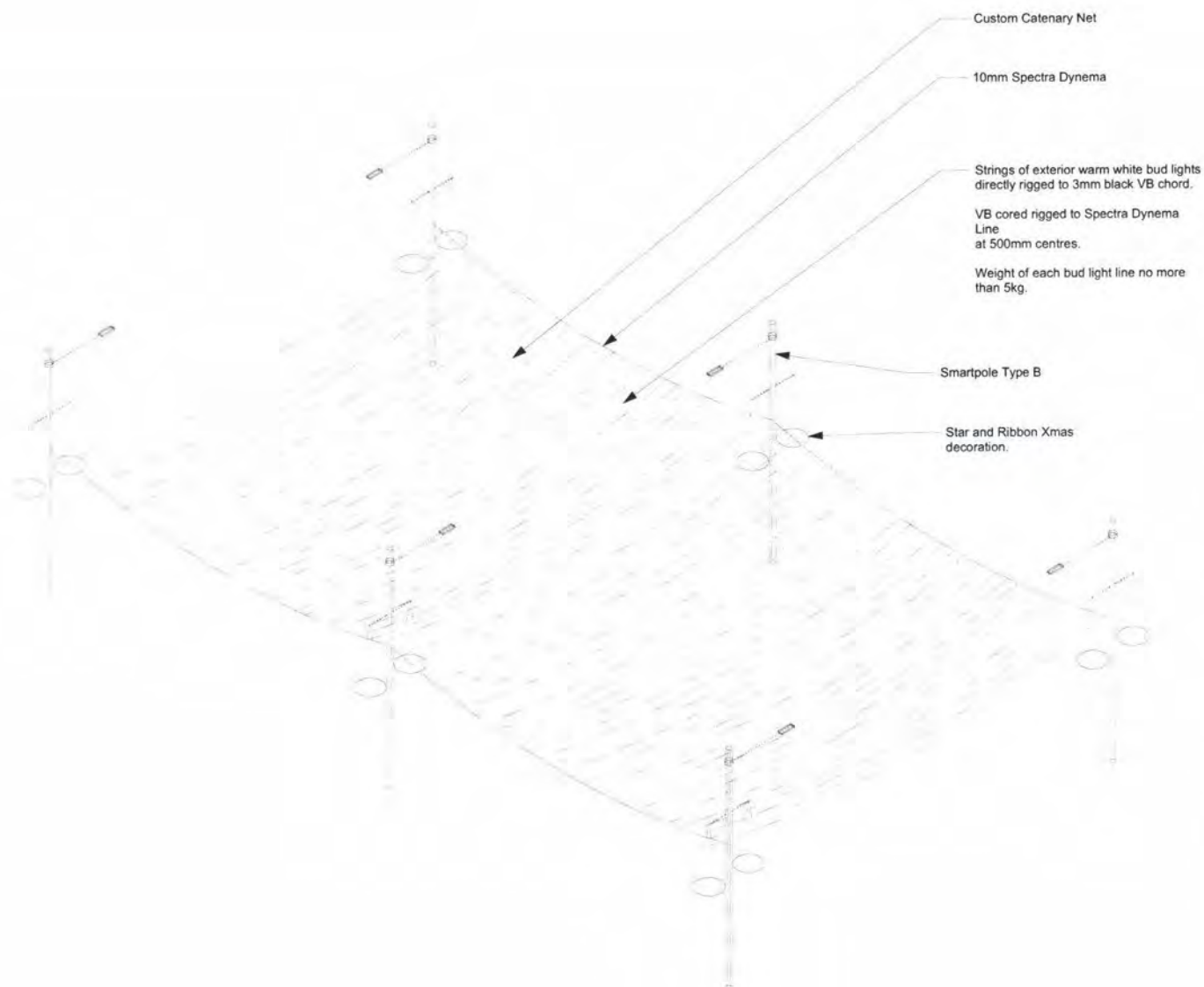
Artist Impression / Martin Place

4. Martin Place

Street Decorations and Fairy Light Canopy



Artist Impression / Martin Place Detail



1

MARTIN PLACE CATENARY ISOMETRIC
Scale: 1:150

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
GREEN SQUARE LIBRARY
FAIRY LIGHT STRUCTURE - CONCEPT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
18/3/18

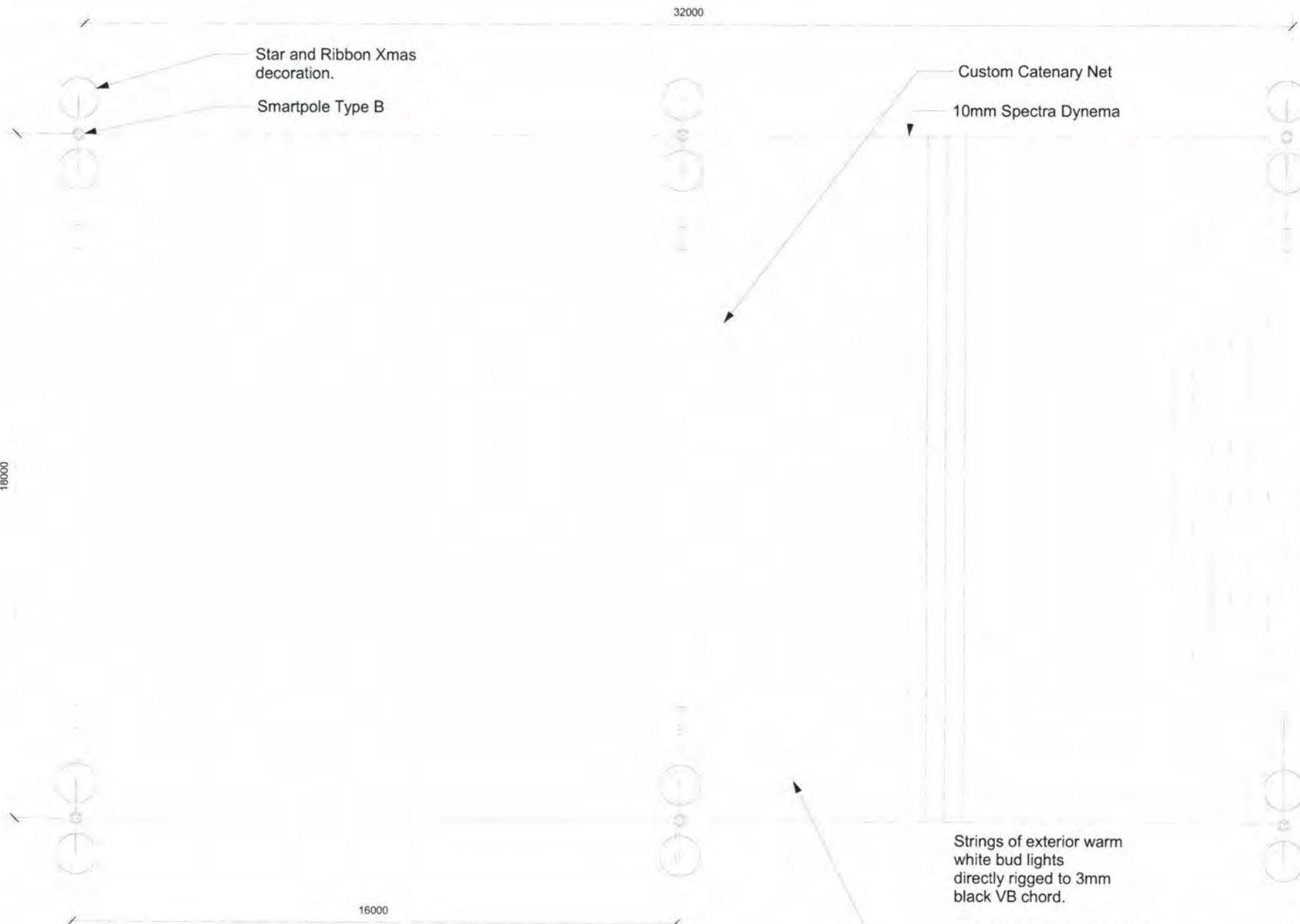
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DRAWING No.
MPC 001

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



GENERAL NOTES

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CHIPPENDALE NSW 2008
AUSTRALIA
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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
GREEN SQUARE LIBRARY
FAIRY LIGHT STRUCTURE - CONCEPT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
18/3/18

SCALE
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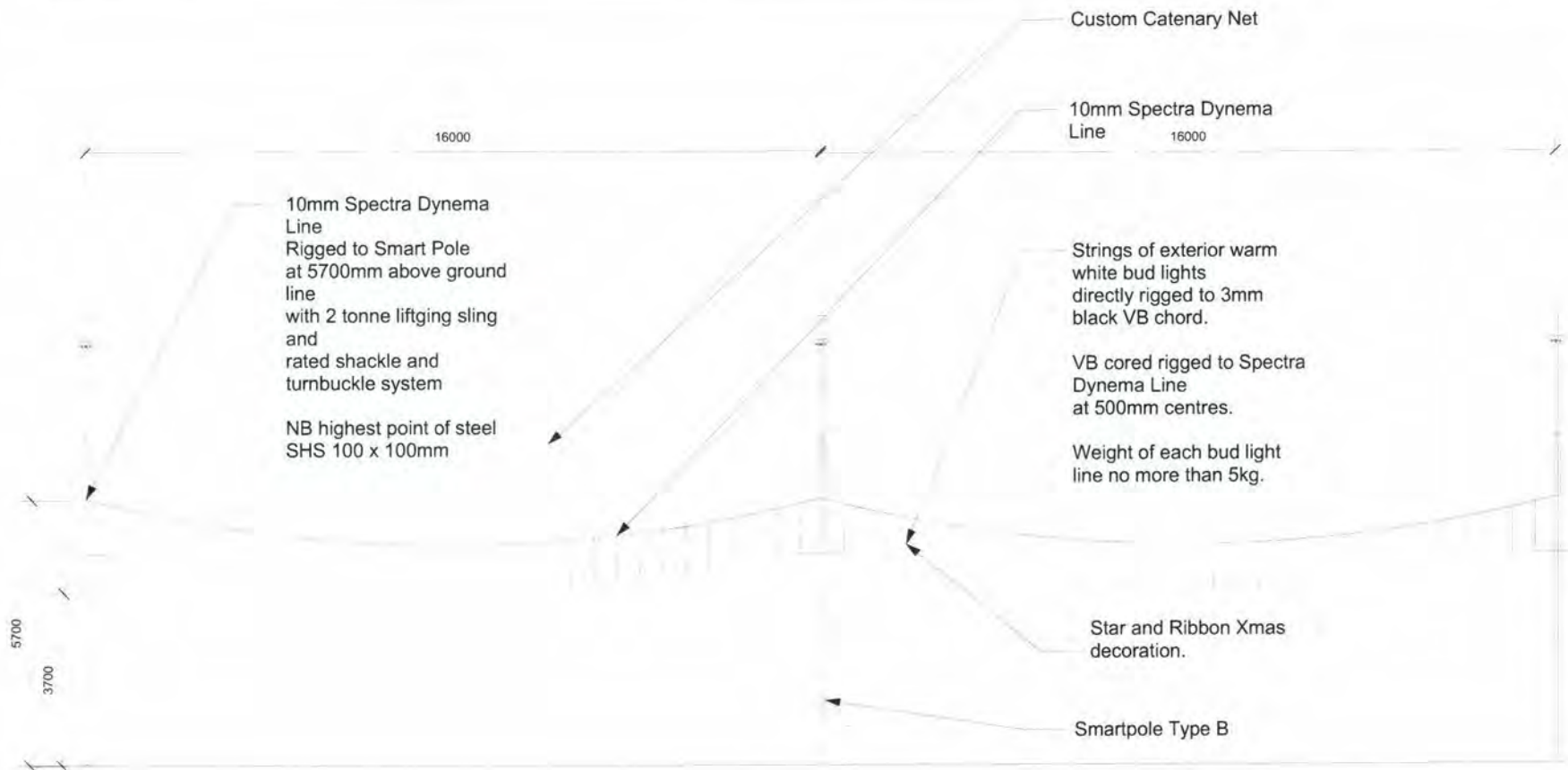
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MPC 002

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SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 961 781

CONSULTING ENGINEER
EVENT ENGINEERING
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Chippendale NSW 2008
ph: 02 9690 1734

1 MARTIN PLACE CATENARY PLAN
Scale: 1:100



GENERAL NOTES

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CHIPPENDALE NSW 2008
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PROJECT SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT CITY OF SYDNEY

DRAWING TITLE
GREEN SQUARE LIBRARY
FAIRY LIGHT STRUCTURE - CONCEPT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE 18/3/18 SCALE 1:50 @ A3

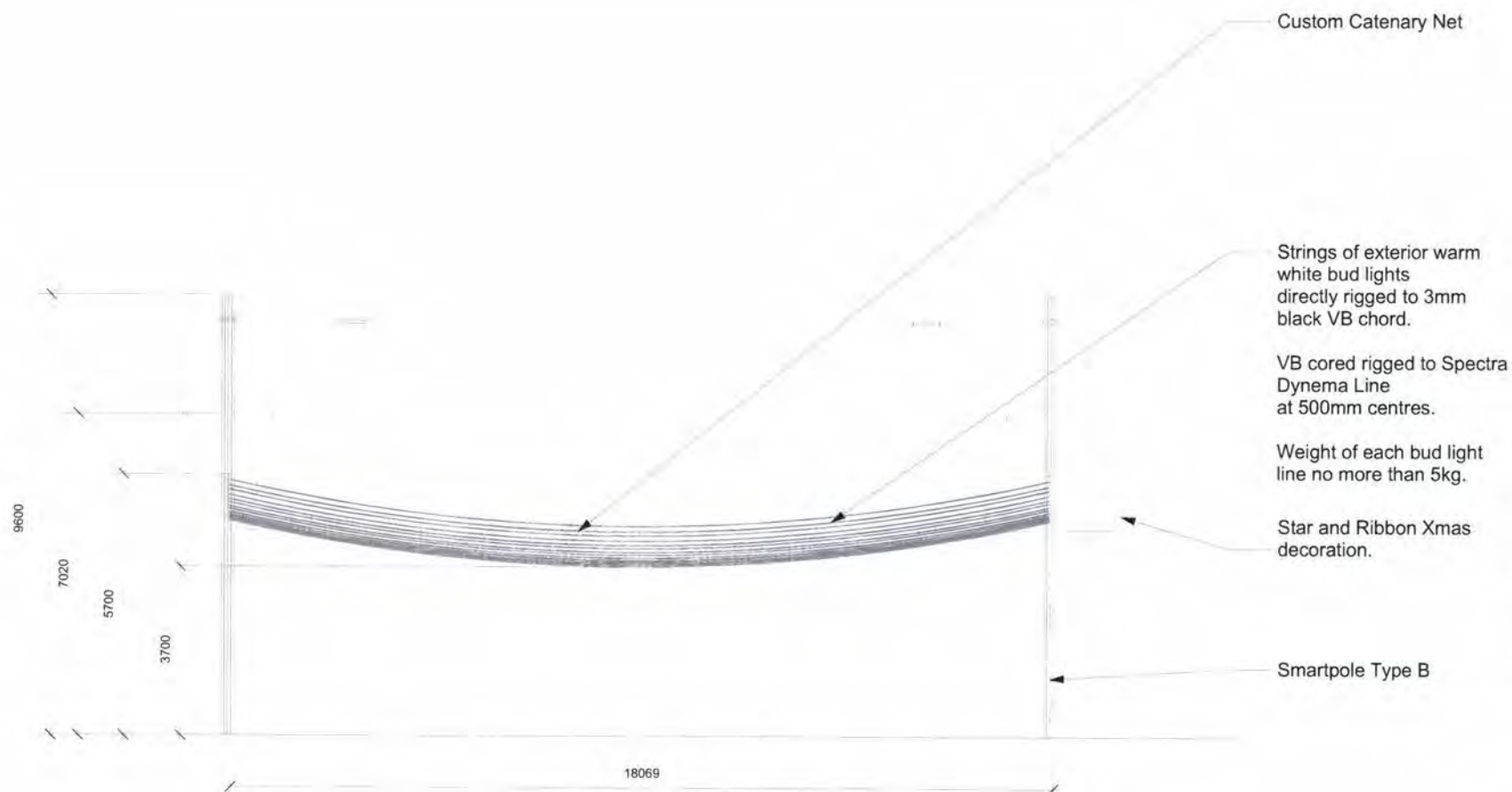
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CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
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Chippendale NSW 2008
ph: 02 9690 1734

1

MARTIN PLACE CATENARY SIDE VIEW
Scale: 1:100



1 MARTIN PLACE CATENARY END VIEW
Scale: 1:100

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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
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DRAWING TITLE
GREEN SQUARE LIBRARY
FAIRY LIGHT STRUCTURE - CONCEPT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
18/3/18

SCALE
1:50 @ A3

DRAWING No.
MPC 004

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 581 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

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5. GEORGE STREET

5. George Street Design Options Rational



George Street
Option 01



George Street
Option 02

The remarkable transformation of George Street with its new tram lines and reduction in traffic has invigorated the experience of the street.

For a pedestrian there is now the space to really appreciate its spectacular city scape - one that ranges from the grand sandstone of QVB and Town Hall to iconic skyscrapers.

Because of the tram lines we are restricted to only install our decorations on the footpath side of the new smart poles but we see this as an opportunity for our language to speak to the architectural fabric of the street itself.

This restriction inspired us to think of projecting our designs onto the buildings themselves at night in the shape of giant baubles of varying sizes. The projectors would be installed and powered from the smart poles.

Each smart pole would incorporate a self illuminated star (ex HUB) and we would give George St its own signature Twirling Ribbon Bauble design (option 01) or Spiral Ribbon Star design (option 02).

The rational of Option 01 is to retain the "hero" status of the single Star atop the lightpoles rather than having two Stars per pole as presented in Option 02.

5. George Street

Design Allocation - Option 01



OPTION 01

The Twirling Ribbon Bauble - Kinetic and Illuminated

Alternate usage of ornaments in colour combinations of:

1. Passive spinning red on white ribbon with white illuminated bauble.
2. Passive spinning white on red ribbon with red illuminated bauble.

5. George Street Street Decorations - Option 01



Artist Impression / George Street

5. George Street
Street Decorations - Option 01



Artist Impression / George Street Detail

5. George Street

Design Allocation - Option 02



OPTION 02

The Spiral Ribbon Star - Kinetic and Illuminated

Alternate usage of ornaments in colour combinations of:

1. Passive spinning red on green ribbon with white illuminated star.
2. Passive spinning green on red ribbon with white illuminated star.

5. George Street Street Decorations - Option 02



Artist Impression / George Street

5. George Street
Street Decorations - Option 02



Artist Impression / George Street Detail

5. George Street Gobo Projection Design



Artist Impression of Gobo Lighting on George Street.

Gobo Projection Design

These Gobo projectors would be installed on surrounding buildings or possibly on the existing smart poles close to the tree.

Gobo lighting is proposed for use with either Option 01 or Option 02.

Grand Lighting 150W GenII

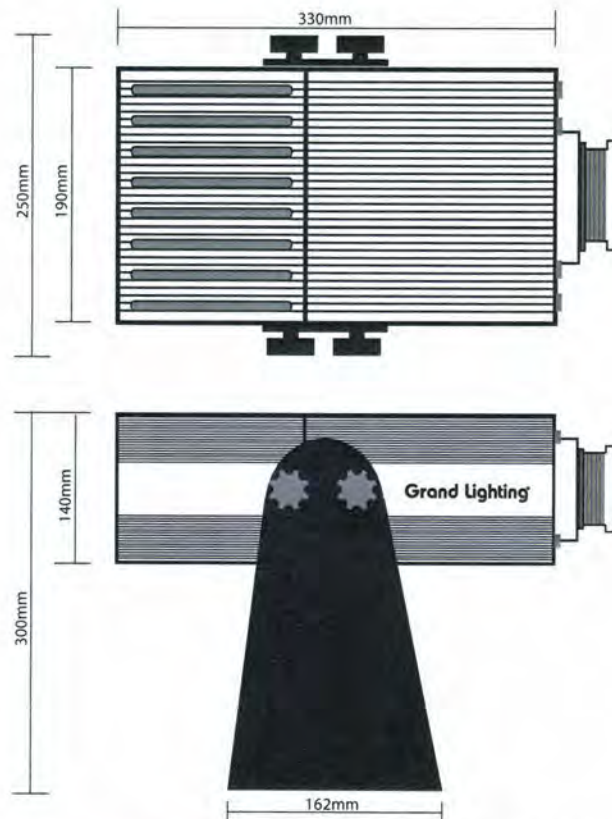
- Standard lenses available: Actual output 17.5degrees & 22 degrees
- 67/45mm gobo
- Rotation function available via button switch
- Rear cooling fins & waterproof fan protected by 1.5mm mesh.
- 150W LED Array (USA made)
- Supplied with Constant Current Low Voltage Powersupply ****Use only supplied PSU****

Dimensions

- Length (excluding lens) 330mm
- Length with lens approx 400mm
- Width, with knobs 250mm
- Body height 140mm
- Height with mount 300mm
- Weight ____ kg

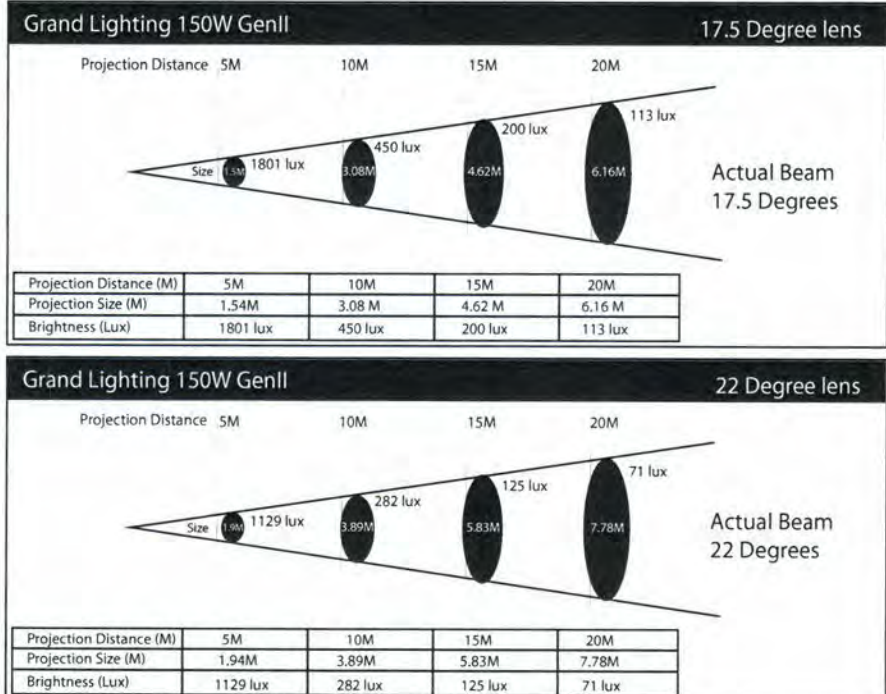
Powersupply IP65, size: ____
Input Voltage: 100-240V AC
Average Power Consumption: ____

****Specifications subject to change at anytime without notice****



Grand Lighting 100W GenII Data Specifications rev1 -191015

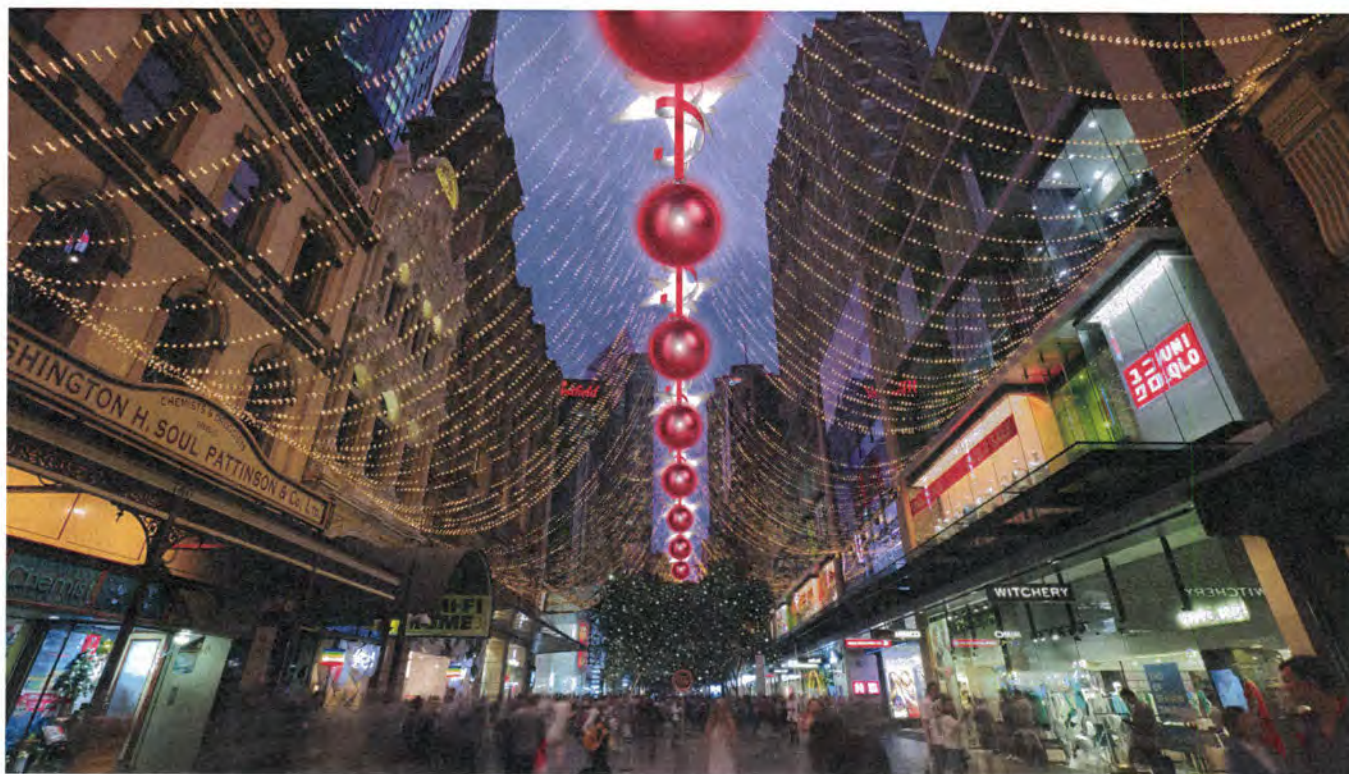
5.George Street Gobo Lighting Specification



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6. PITT STREET MALL

6. Pitt Street Mall Overview



For us Pitt Street Mall represents the dynamic fun of Christmas - shopping, buskers, carol singing. It is a crossroad buzzing with energy during the festive season.

The existing steel cable rigging spine down the centre of the mall is where we would place our key pieces - stars, ribbons and baubles.

The existing red light cylinders afford a fantastic place to place our self illuminating stars. Placed directly underneath, they would work beautifully in combination together.

We would alternate the Stars with our bauble and ribbon pieces. These twirling ribbons will passively spin in the wind, adding a sense of party and energy into the mix.

6. Pitt Street Mall Design Allocation



*The Twirling Ribbon Bauble - Kinetic and Illuminated
HUB Illuminated Star and Fairy Light Canopy.*

Decoration Allocation:

1. Red on white passive twirling ribbon with illuminated red bauble.
2. Illuminated Star (Ex HUB) hung from existing red cylindrical mall lights.
3. Pre-existing fairy light canopy COS

6. Pitt Street Mall Mall Decorations



Artist Impression / Pitt Street Mall

6. Pitt Street Mall Mall Decorations



Artist Impression / Pitt Street Mall Detail

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7. GREEN SQUARE

7. Green Square

Design Allocation Option 01



OPTION 01

The Spiral Ribbon Star - Kinetic and Illuminated

Alternate usage of ornaments in colour combinations of:

1. Passive spinning red on green ribbon with white illuminated star.
2. Passive spinning green on red ribbon with white illuminated star.
3. Passive spinning red on ochre ribbon with white illuminated star.
4. Passive spinning ochre on red ribbon with white illuminated star.

7. Green Square

16m Christmas Tree and Street Decorations - Option 01



Artist Impression / Green Square

7. Green Square

16m Christmas Tree and Street Decorations - Option 01



Artist Impression / Green Square Detail

7. Green Square

Garden Spiral Light Canopy - Option 01



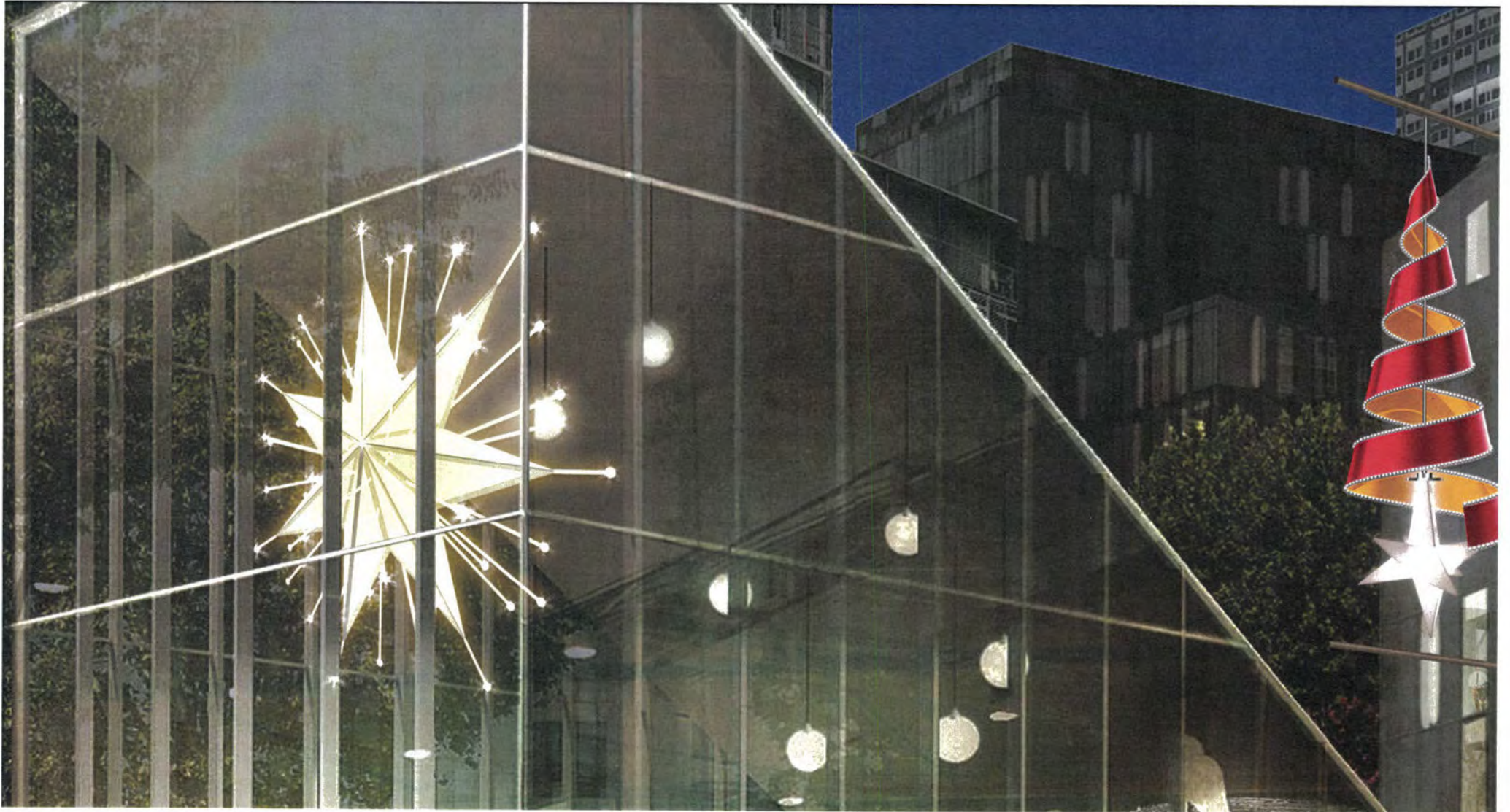
Artist Impression / Green Square

7. Green Square
Library Entrance Star - Option 01



Artist Impression / Green Square

7. Green Square
Library Entrance Star - Option 01



Artist Impression / Green Square Detail

7. Green Square

Design Allocation - Option 02



OPTION 02

Surrounding Christmas Tree *The Spiral Ribbon Star - Kinetic and Illuminated*

Alternate usage of ornaments in colour combinations of:

1. Passive spinning red on green ribbon with white illuminated star.
2. Passive spinning green on red ribbon with white illuminated star.

Surrounding Library *The Twirling Ribbon Bauble - Kinetic and Illuminated*

Alternate usage of ornaments in colour combinations of:

1. Passive spinning red on white ribbon with white illuminated bauble.
2. Passive spinning white on red ribbon with red illuminated bauble.

7. Green Square

16m Christmas Tree and Street Decorations - Option 02



Artist Impression / Green Square

7. Green Square

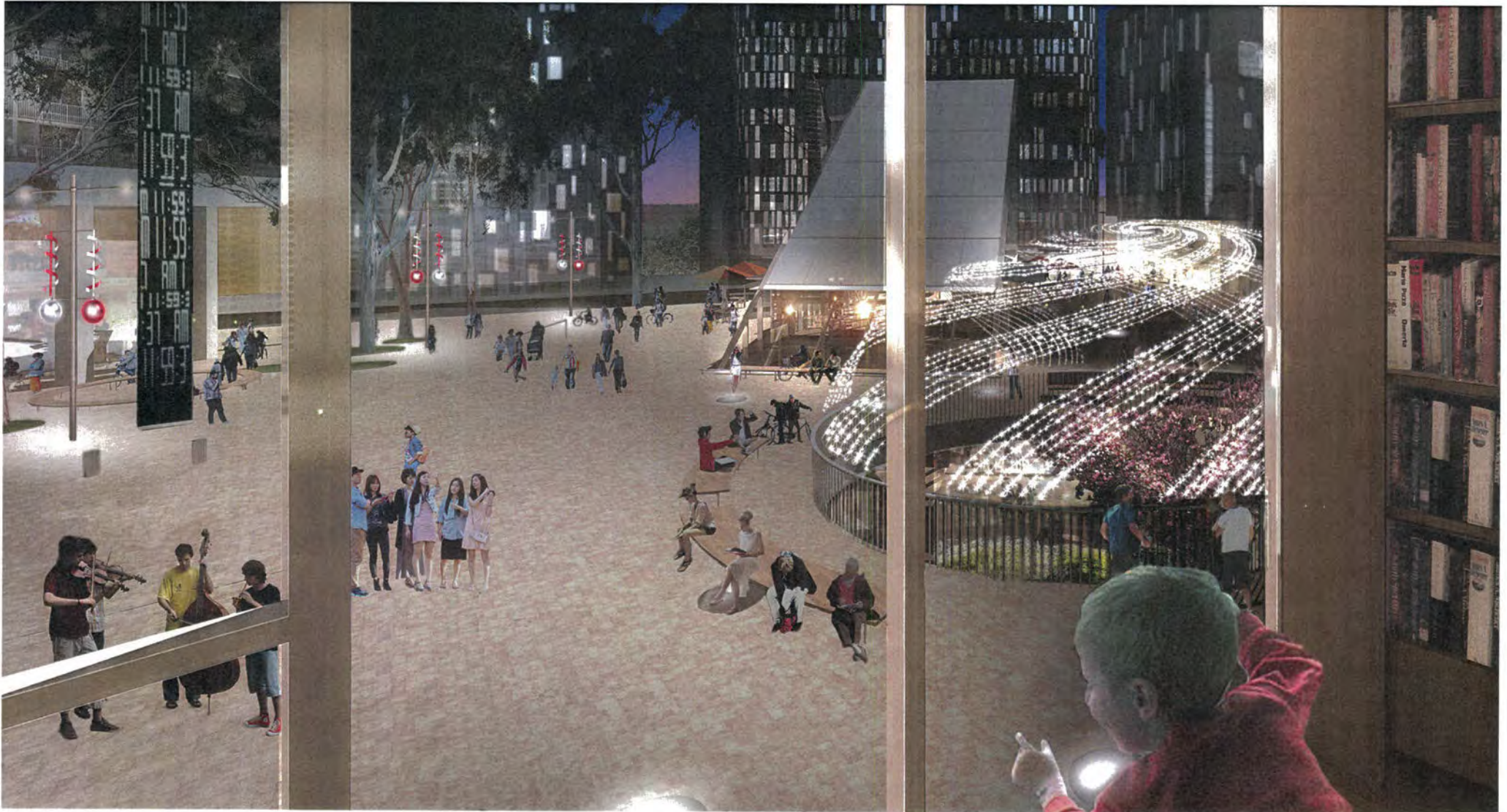
16m Christmas Tree and Street Decorations - Option 02



Artist Impression / Green Square Detail

7. Green Square

Garden Spiral Light Canopy - Option 02



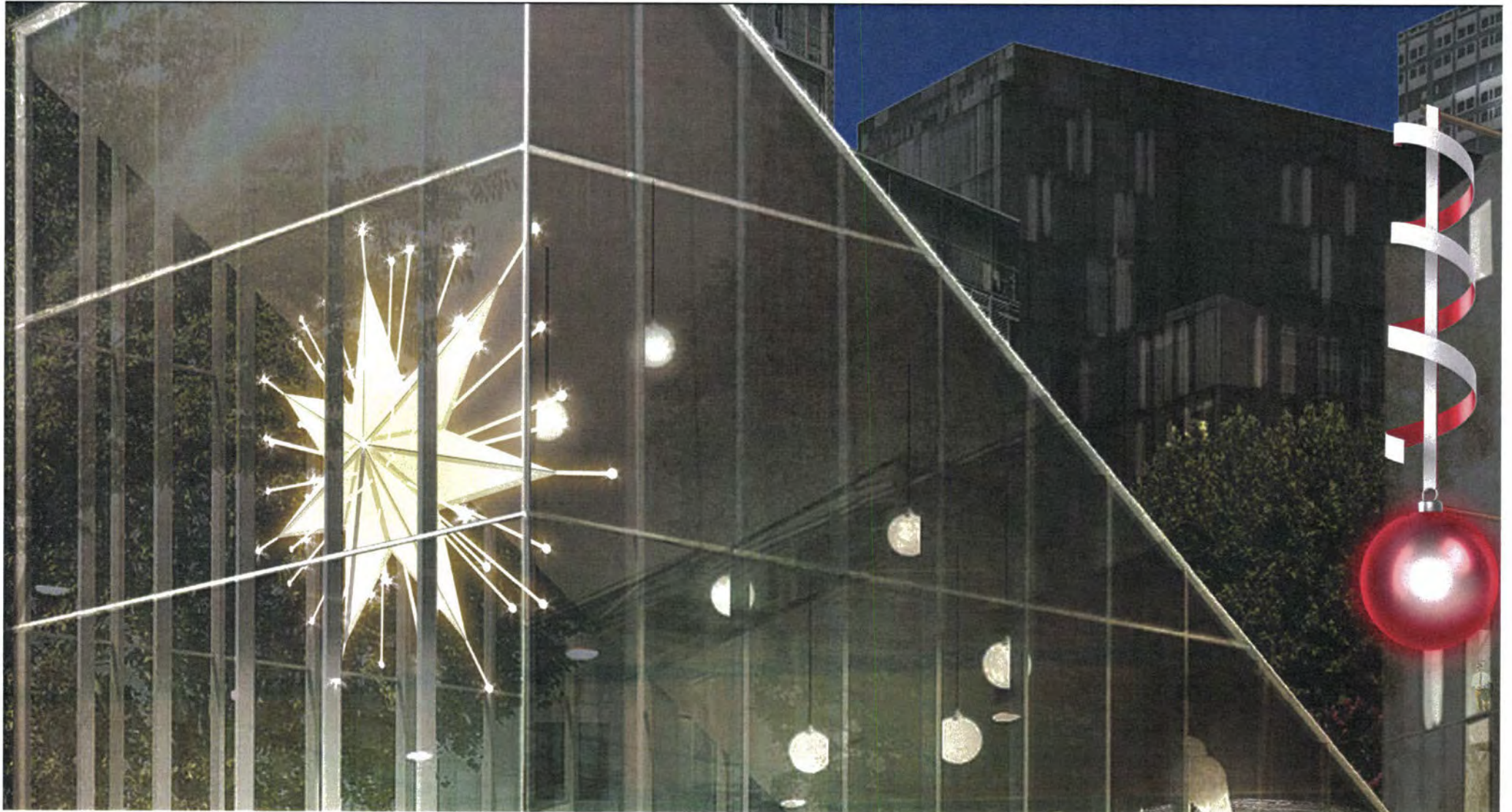
Artist Impression / Green Square

7. Green Square
Library Entrance Star - Option 02

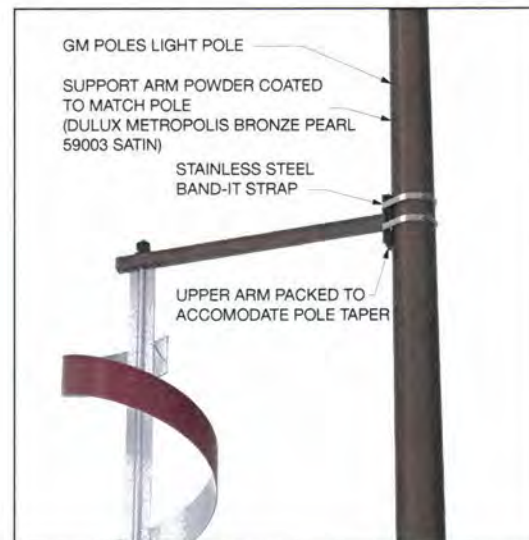
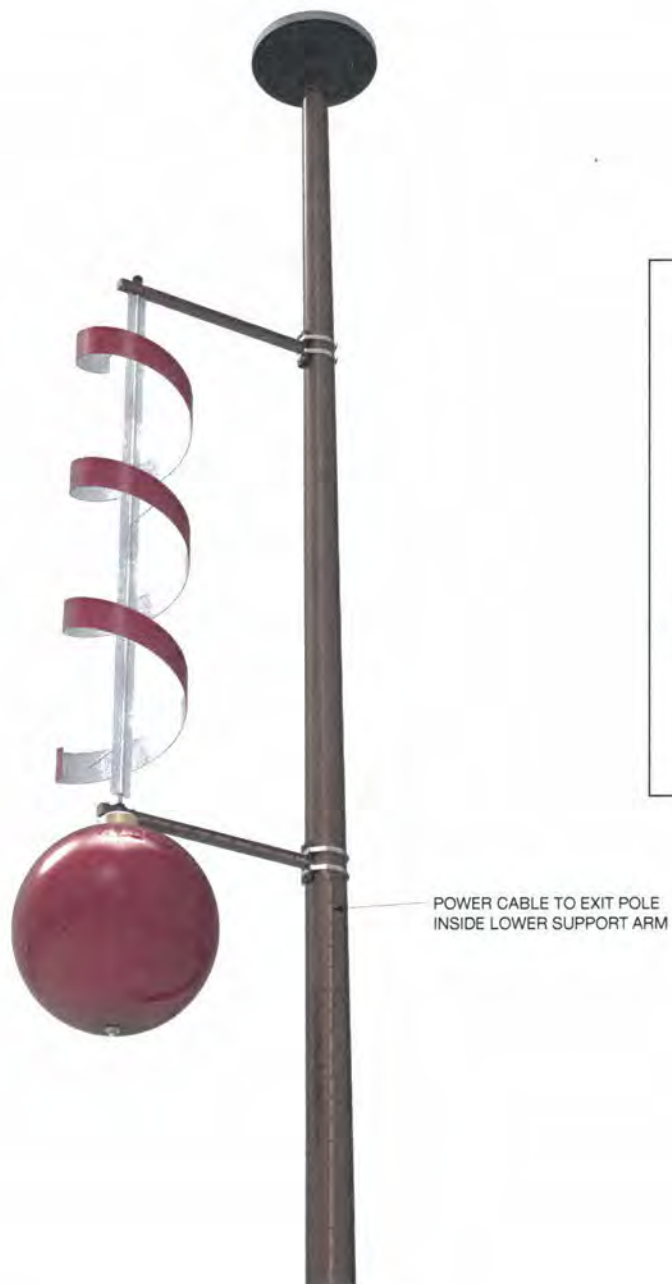


Artist Impression / Green Square

7. Green Square
Library Entrance Star - Option 02



Artist Impression / Green Square Detail



NOTES

NOTE
CONNECTION METHODOLOGY
IS REPEATED FOR SPIRAL RIBBON
STAR ASSEMBLY

- DRAFT -
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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
GREEN SQUARE LIGHT POLE
CONNECTION DETAIL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
25.3.18

SCALE
N/A

SHEET No
013

DRAWING BY
SCA

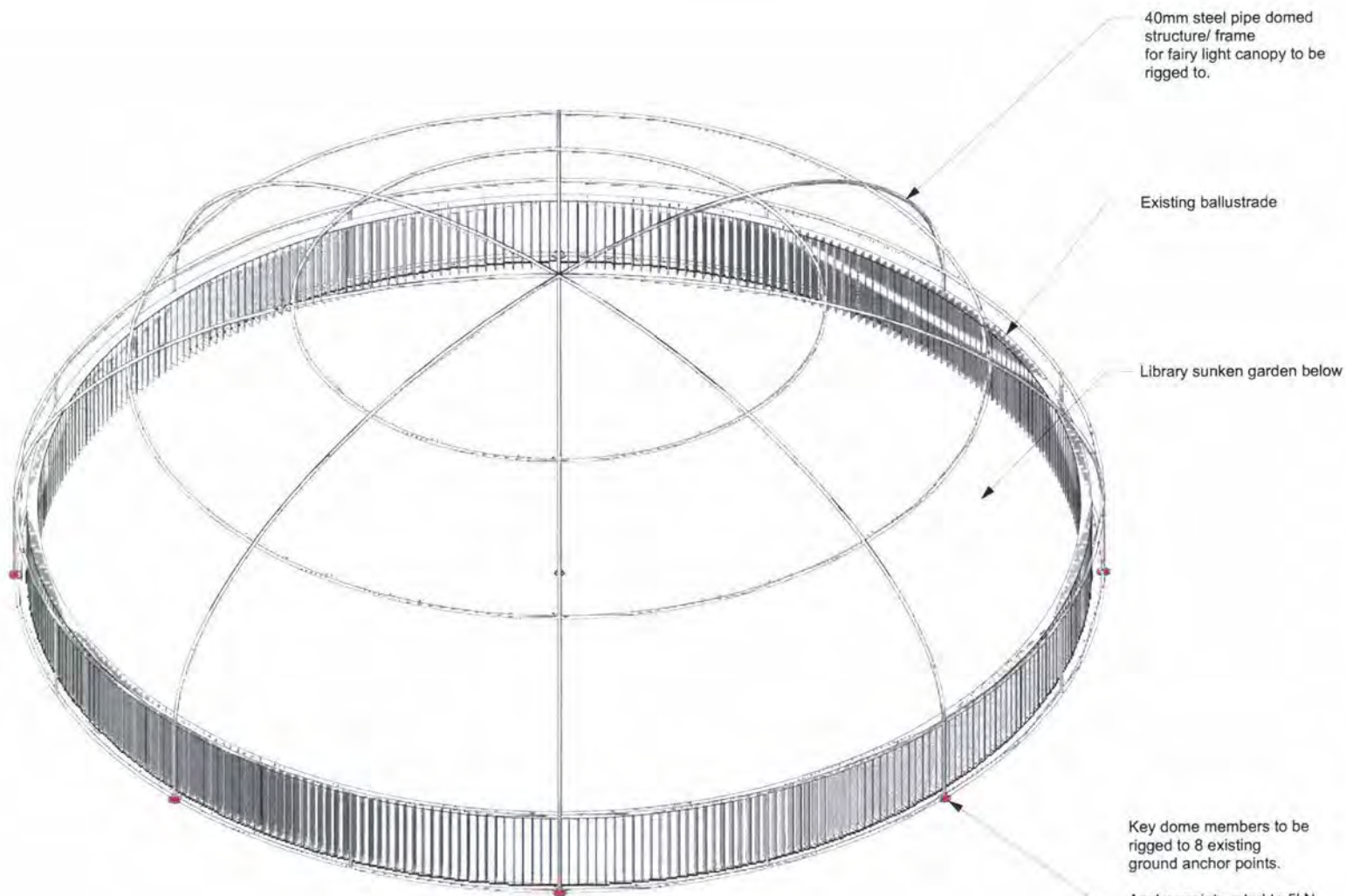
CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph. 02 9690 1734

7. Green Square Fairy Light Canopies



Artist Impression / Green Square



GENERAL NOTES

1. Fairy light dome frame constructed in 40mm steel pipe. Final Spec TBC. Structure is temporary so will need to pack down into sections.

2. Fairy light dome frame rigged over existing ballustrade and anchored to 8 existing ground anchors around the perimeter of the ballustrade. Anchors are rated to 5kN. Final drawings to follow further advice from COS re exact positions of ground anchors.

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+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
GREEN SQUARE LIBRARY
FAIRY LIGHT STRUCTURE - CONCEPT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
18/3/18

SCALE
1:50 @ A3

DRAWING No.
GSLA001

DRAWING BY
SAM HOBBS

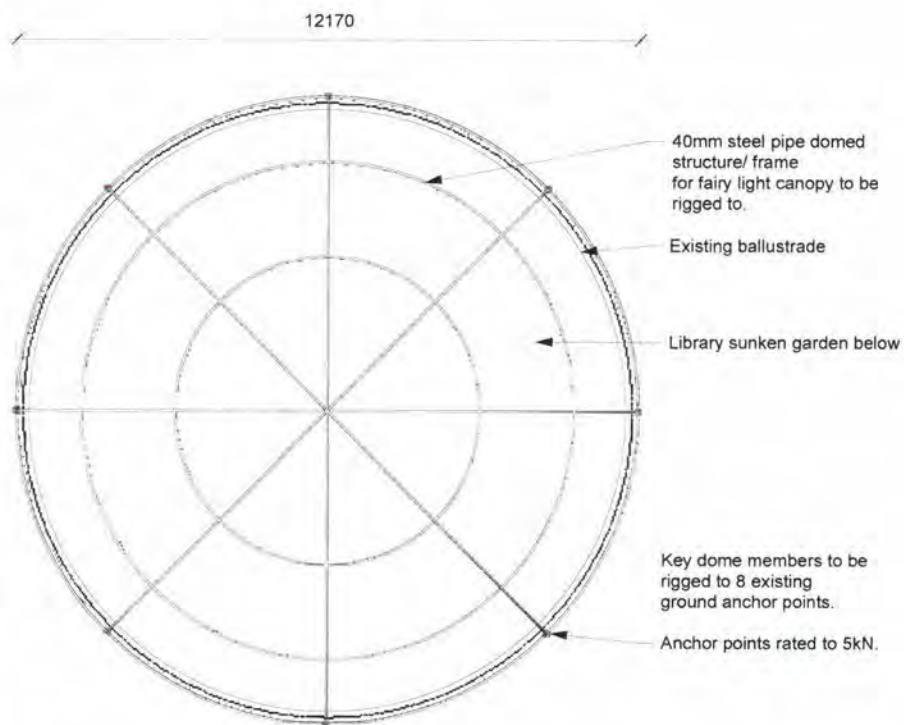
CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734

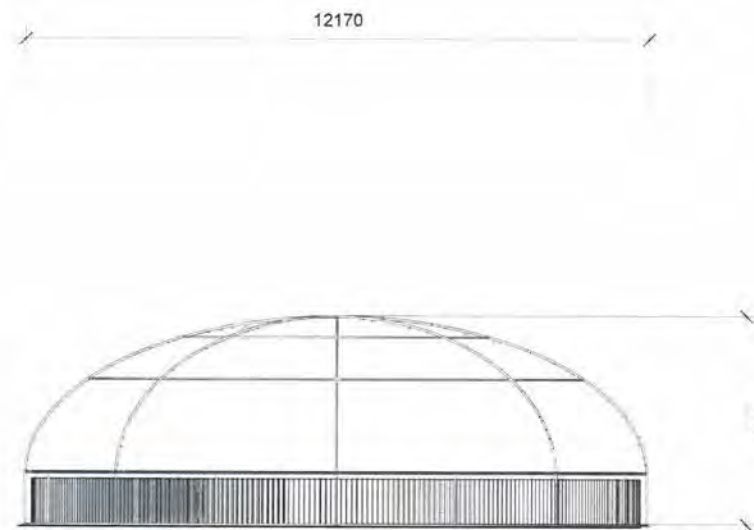
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GREEN SQUARE LIBRARY FAIRY LIGHT STRUCTURE - CONCEPT

Scale: 1:50



1 GREEN SQUARE LIBRARY FAIRY LIGHT STRUCTURE - CONCEPT PLAN
Scale: 1:100



2 FAIRY LIGHT STRUCTURE - CONCEPT ELEVATION
Scale: 1:100

GENERAL NOTES

1. Fairy light dome frame constructed in 40mm steel pipe. Final Spec TBC. Structure is temporary so will need to pack down into sections.

2. Fairy light dome frame rigged over existing ballustrade and anchored to 8 existing ground anchors around the perimeter of the ballustrade. Anchors are rated to 5kN. Final drawings to follow further advice from COS re exact positions of ground anchors.

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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
GREEN SQUARE LIBRARY
FAIRY LIGHT STRUCTURE - CONCEPT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
18/3/18

SCALE
1:50 @ A3

DRAWING No
GSLA002

DRAWING BY
SAM HOBBS

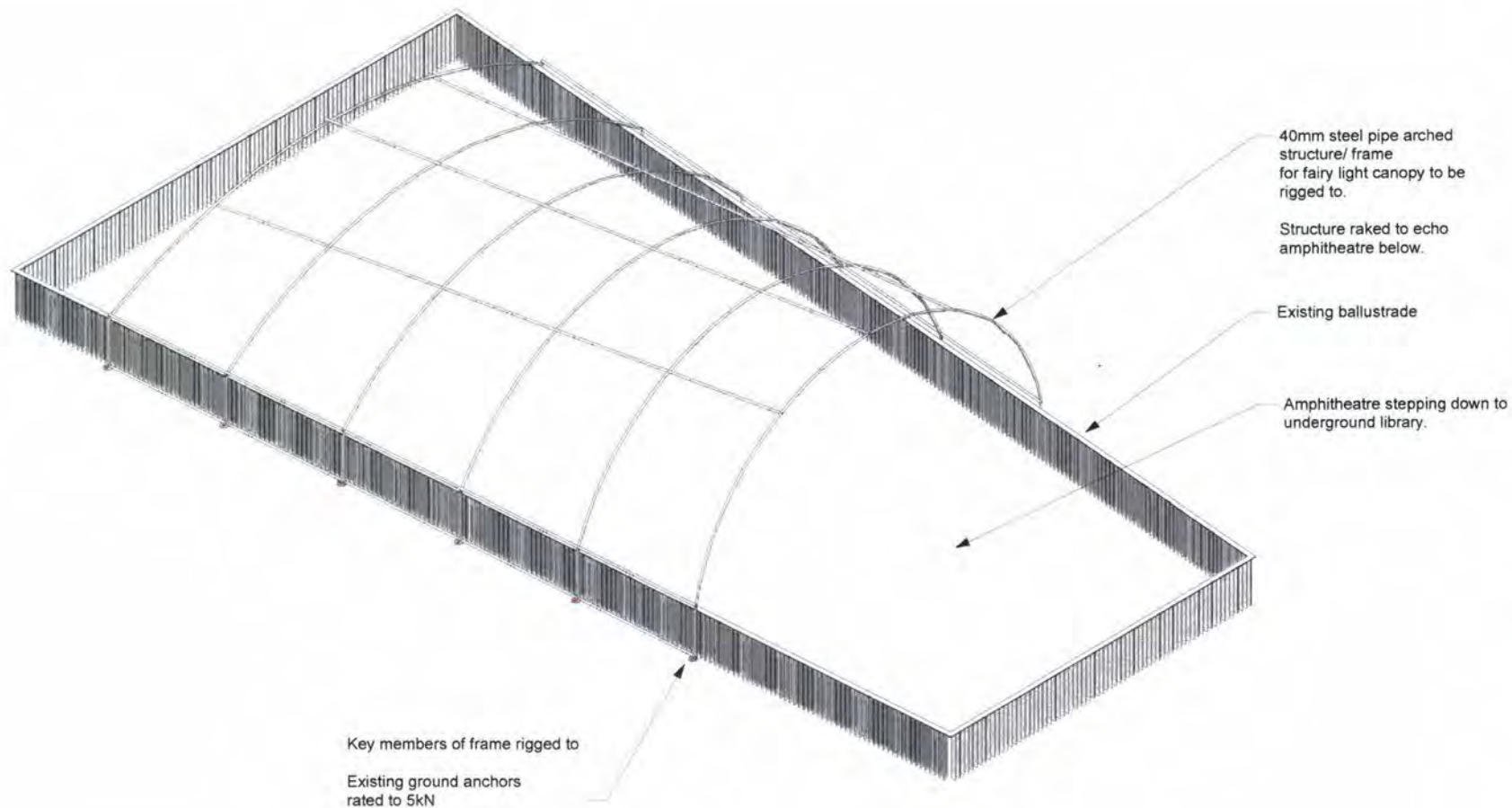
CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING

17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734



1

Amphitheatre Fairy Light Frame - Concept
Scale: 1:75

GENERAL NOTES

1. Fairy Light arched frame constructed in 40mm steel pipe. Final Spec TBC. Structure is temporary so will need to pack down into sections.
2. Frame rigged over existing ballustrade and anchored to existing ground anchors. 6 anchors are provided each side of amphitheatre- final drawings to follow further advice from COS re exact positions of ground anchors.
3. Frame is to follow the form of the amphitheatre perimeter and be raked to echo the raked seating of the amphitheatre below.

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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
GREEN SQUARE AMPHITHEATRE
FAIRY LIGHT STRUCTURE - CONCEPT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
18/3/18

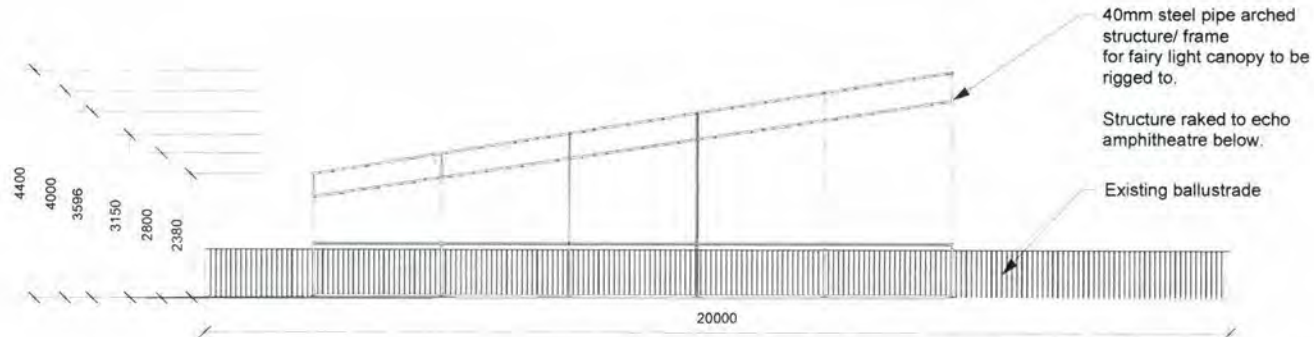
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DRAWING No.
GSAA001

DRAWING BY
SAM HOBBS

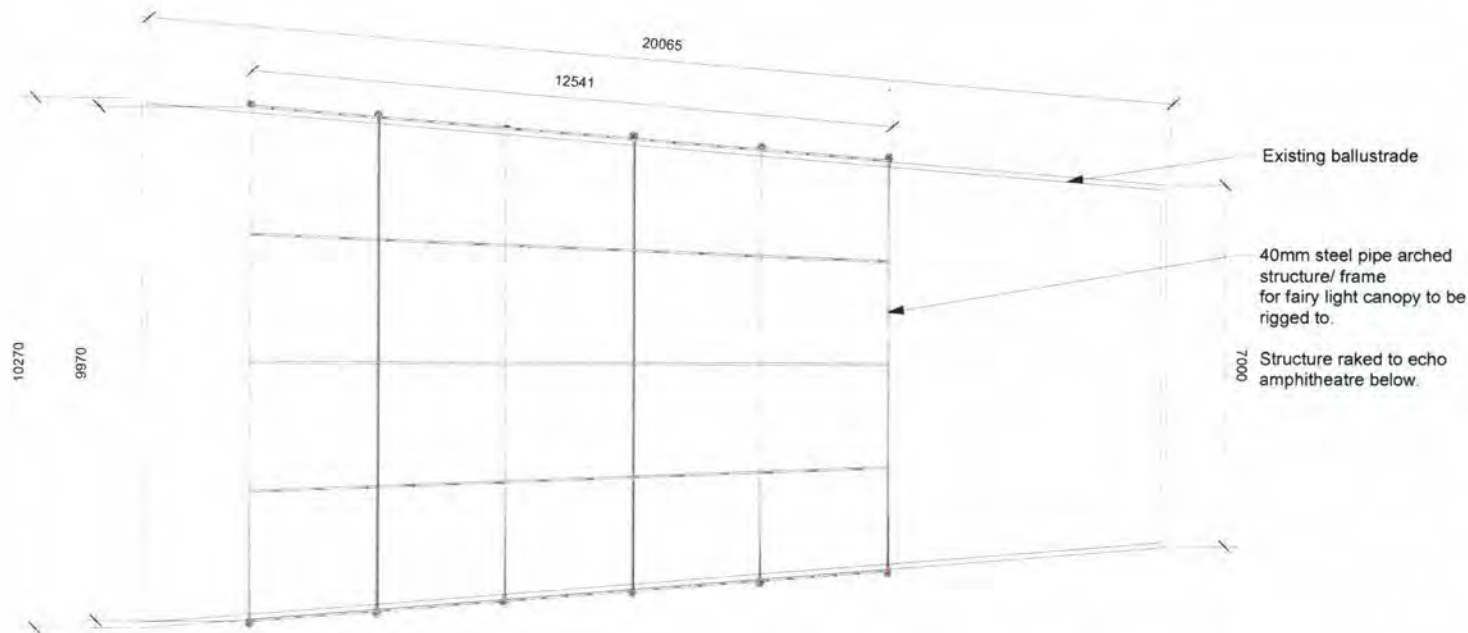
CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph 02 9690 1734



1

Amphitheatre Fairy Light Frame - Side View
Scale: 1:100



2

Amphitheatre Fairy Light Frame - Plan
Scale: 1:100

GENERAL NOTES

1. Fairy Light arched frame constructed in 40mm steel pipe. Final Spec TBC. Structure is temporary so will need to pack down into sections.
2. Frame rigged over existing ballustrade and anchored to existing ground anchors. 6 anchors are provided each side of amphitheatre- final drawings to follow further advice from COS re exact positions of ground anchors.
3. Frame is to follow the form of the amphitheatre perimeter and be raked to eco the raked seating of the amphitheatre below.

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INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
GREEN SQUARE AMPHITHEATRE
FAIRY LIGHT STRUCTURE - CONCEPT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
18/3/18

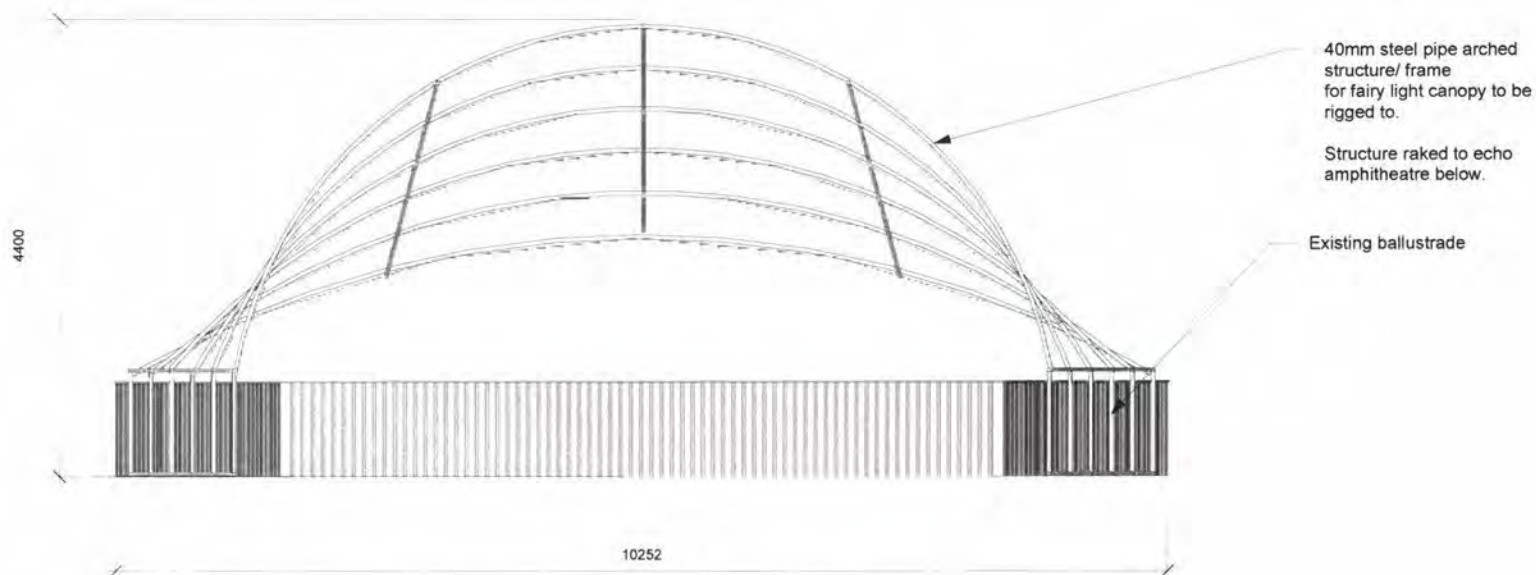
SCALE
1:50 @ A3

DRAWING No
GSAA002

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9990 1734



1

Amphitheatre Fairy Light Frame - End View
Scale: 1:50

GENERAL NOTES

1. Fairy Light arched frame constructed in 40mm steel pipe. Final Spec TBC. Structure is temporary so will need to pack down into sections.
2. Frame rigged over existing ballustrade and anchored to existing ground anchors. 6 anchors are provided each side of amphitheatre- final drawings to follow further advice from COS re exact positions of ground anchors.
3. Frame is to follow the form of the amphitheatre perimeter and be raked to echo the raked seating of the amphitheatre below.

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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
GREEN SQUARE AMPHITHEATRE
FAIRY LIGHT STRUCTURE - CONCEPT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
18/3/18

SCALE
1:50 @ A3

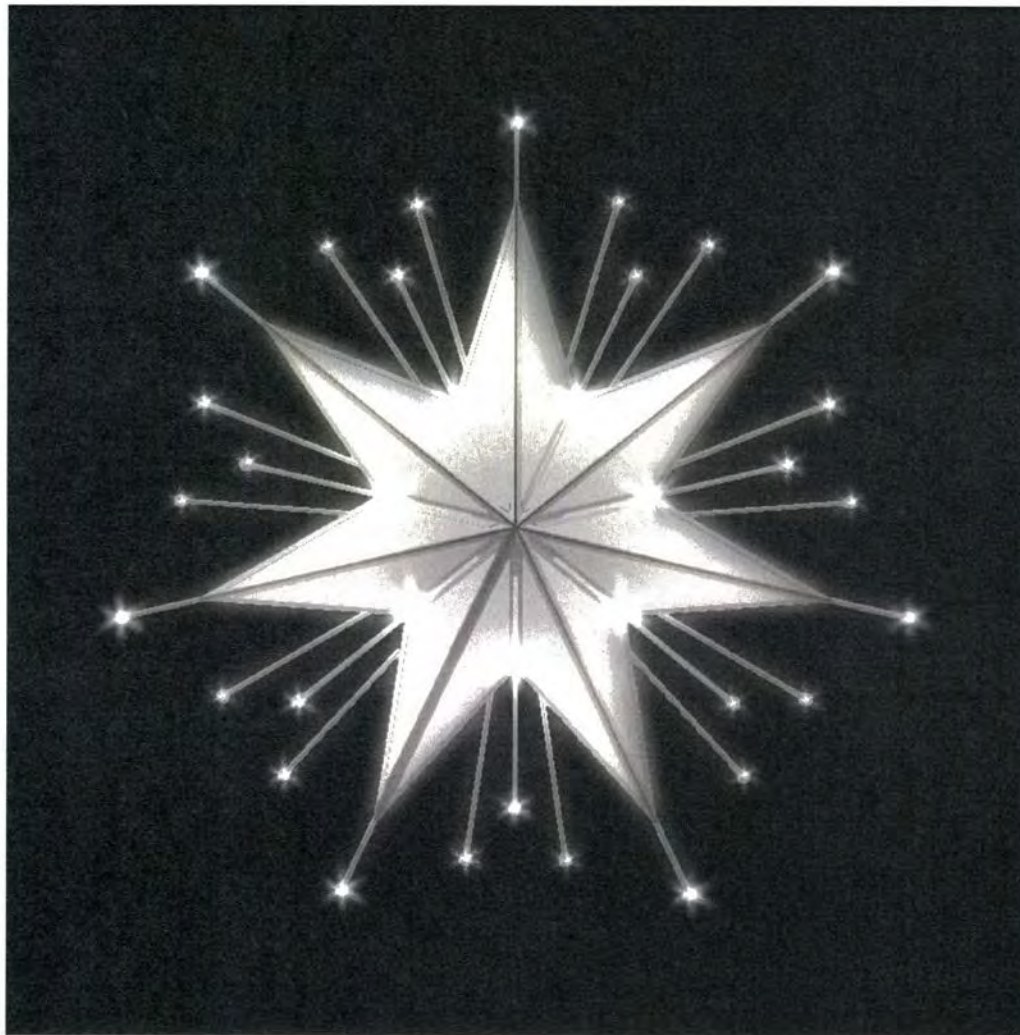
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DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

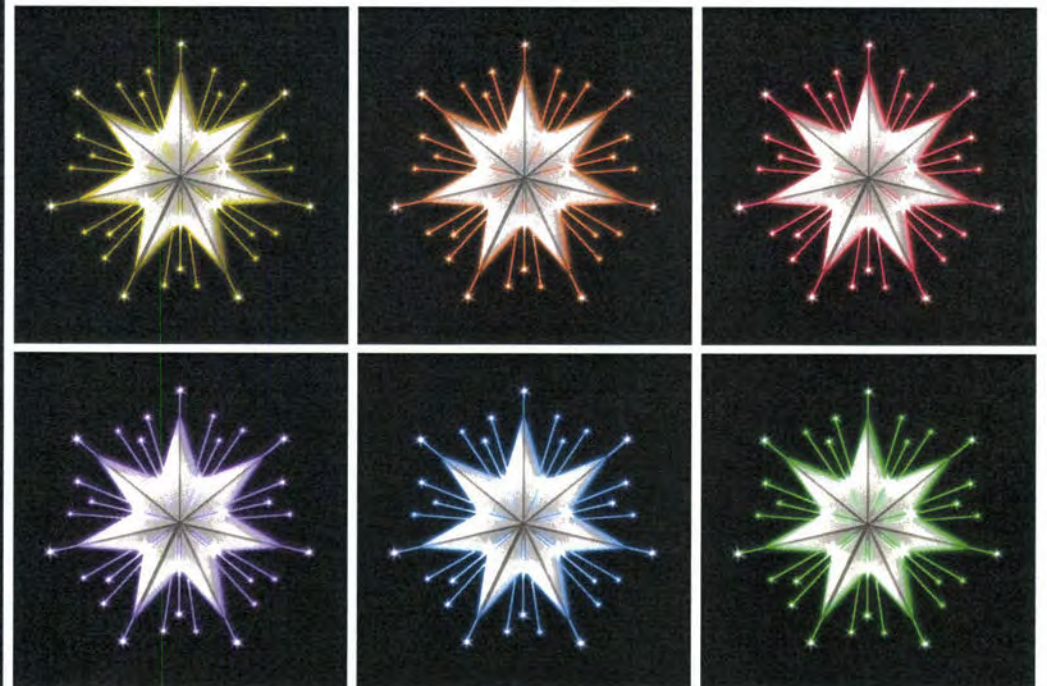
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EVENT
ENGINEERING 17-19 O'Conner St
Chippendale NSW 2008
ph 02 9690 1734

7. Green Square Star Lighting



The star is to be constructed in aluminium and acrylic with illumination being provided in programmable RGB LED lights.

The lighting will be split between the body of the star, star burst rods and the star burst ends.



STAR
CONSTRUCTED
WITH ALUMINIUM
FRAMEWORK
FINISHED WITH
ROUGH PEWTER
STYLE FINISH

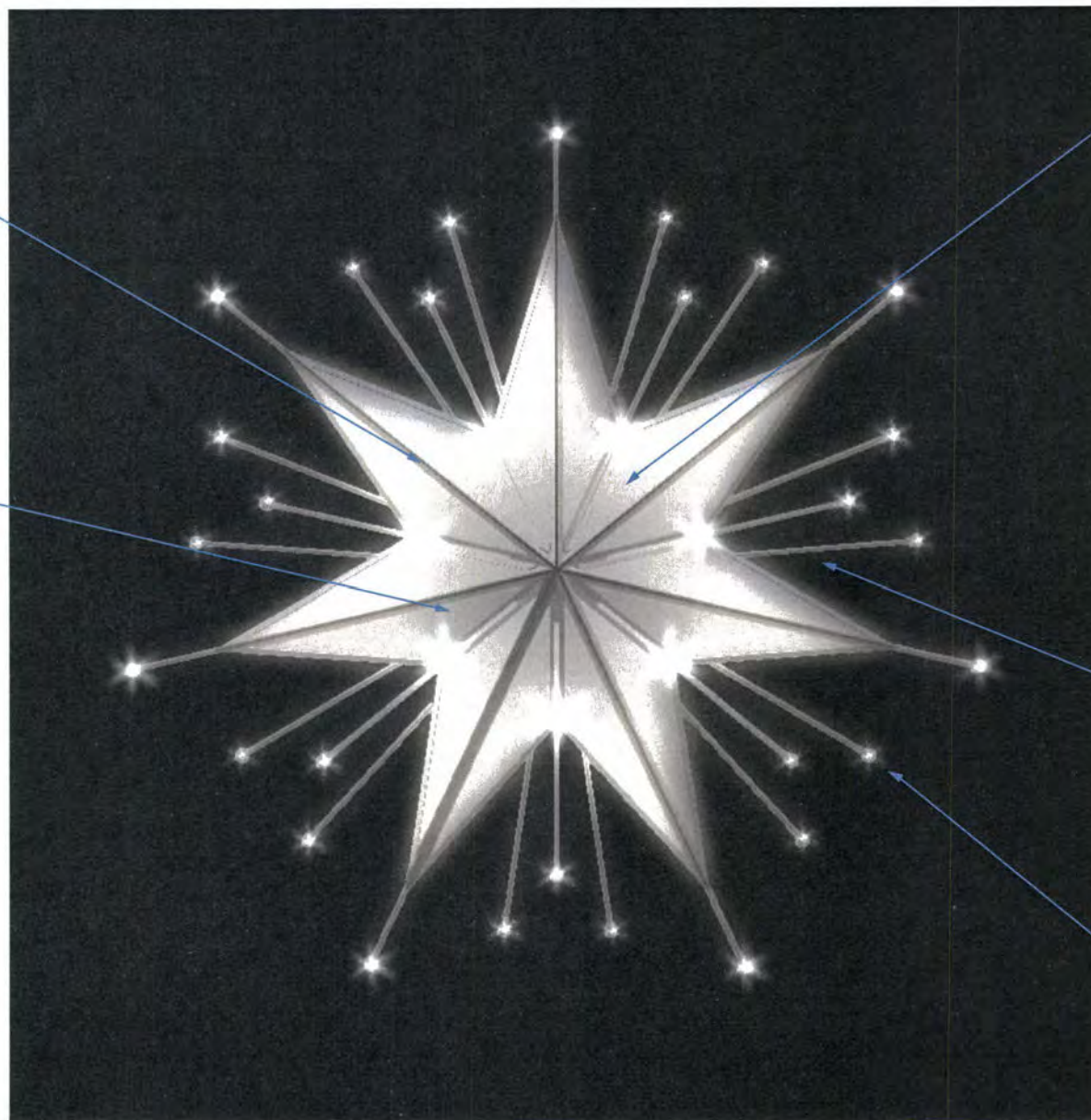
STAR ILLUMINATION
WITH
PROGRAMMABLE
LED LIGHTING

STAR FACETS BUILT
IN 6MM ACRLYLIC
AND TREATED WITH
"BLOWN GLASS"
FILM

STAR BURSTS
CONSTRUCTED WITH
ALUMINIUM ROD
SPINE WELDED TO
STAR FRAME
DRESSED
WITH PROGRAMMABLE
LED STRIP
LIGHTING AND
COVERED WITH
CLEAR ACRYLIC
TUBE

NB STARBURST TO
EMERGE FROM THE
STAR AT RANDOM
ANGLES AND
SIZES IN ALL
DIRECTIONS

END OF
STARBURSTS
FINISHED
WITH CLEAR
ACRYLIC BAUBLES
TO HOUSE
PROGRAMMABLE
LED



"Starburst" Rods to be constructed with 12mm aluminium rods welded to aluminium subframe.

Rods are to be dressed with programmable led strip lighting.

Rods are to be finished in clear 20mm acrylic tubing.

Star panels are to be translucent 6mm plexiglass bolted to aluminium subframe.

"Starburst" ends to be constructed as 50mm ø spheres laminated to ends of "Starburst" acrylic tubes.

Each end to have programmable led lights.



1

GREEN SQUARE LIBRARY FOYER STAR
Scale: 1:20

GENERAL NOTES

1. Star subframe and supports to be constructed in aluminium.
2. Star Panels are to be 6mm Plexiglas eg. Satinice Ice Blue 5h03 DC. Final spec TBC.
3. All fastenings are to be 8.8 grade stainless steel.
4. NB this star same as for the MARTIN PLACE TREE.

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AUSTRALIA
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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
INFRASTRUCTURE DESIGN

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
18/3/18 1:20 @ A3

DRAWING No. DRAWING BY
GS ST 001 SAM HOBBS

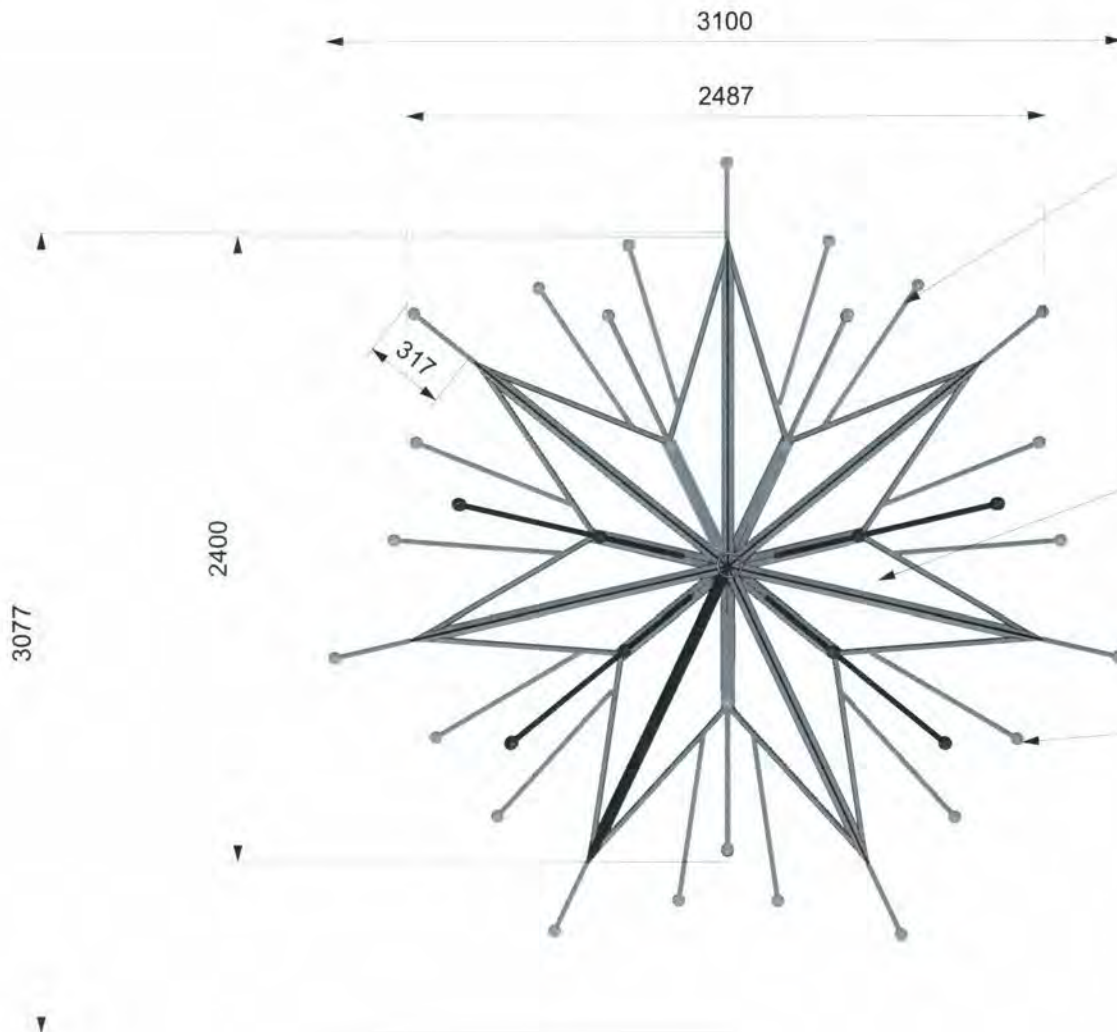
CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Connor St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPengNER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING



"Starburst" Rods to be constructed with 12mm aluminium rods welded to aluminium subframe.

Rods are to be dressed with programmable led strip lighting.

Rods are to be finished in clear 20mm acrylic tubing.

Star panels are to be translucent 6mm plexiglass bolted to aluminium subframe.

"Starburst" ends to be constructed as 50mm ø spheres laminated to ends of "Starburst" acrylic tubes.

Each end to have programmable led lights.

GENERAL NOTES

1. Star subframe and supports to be constructed in aluminium.
2. Star Panels are to be 6mm Plexiglas eg. Satinice Ice Blue 5h03 DC. Final spec TBC.
3. All fastenings are to be 8.8 grade stainless steel.
4. NB this star same as for the MARTIN PLACE TREE.

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PROJECT SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN
CLIENT CITY OF SYDNEY

DRAWING TITLE
INFRASTRUCTURE DESIGN

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE 18/3/18 SCALE 1:20 @ A3

DRAWING No. GS ST 002 DRAWING BY SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy
MEng (Hons II) Tech Cert Eng (Civil)
MIEAust/CPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

1

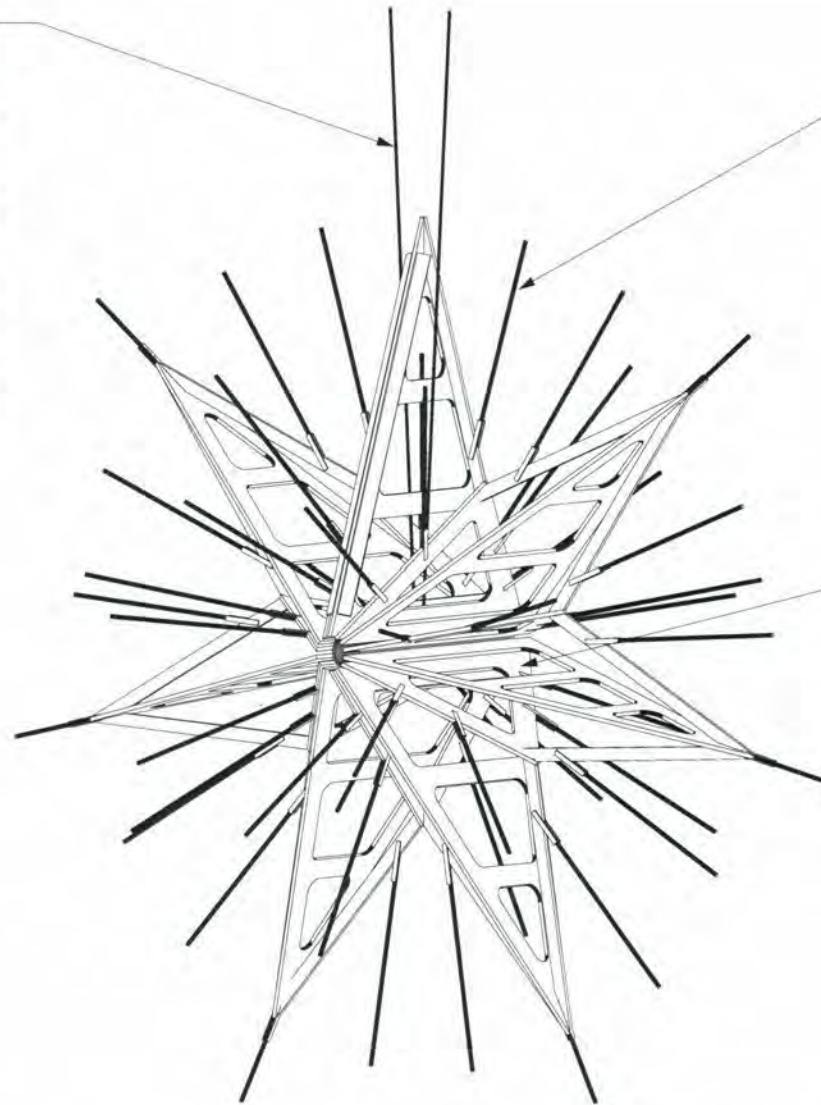
GREEN SQUARE LIBRARY FOYER STAR FRONT ELEVATION
Scale: 1:20

2 Steel wire hanging
cables rigged to central
core tube of star.

Cables to be rated to
one tonne each.

Cables to be rigged to
500kg rated ceiling
anchors.

Hanging system to be
designed with qualified
rigger and engineer with
further anchor spec
advice ex COS and with
precise placement in the
ceiling with site visit.



12mm aluminium rods
welded to fins for "Starbursts"

Additional strength to be
provided with welding
tabs either side of rods.
See detail this sheet.

Fins of star to be
constructed in
12mm laser cut
aluminium plate.

1

GREEN SQUARE LIBRARY FOYER STAR SUBFRAME
Scale: 1:15

GENERAL NOTES

1. Star subframe and supports to be constructed in aluminium.
2. Star Panels are to be 6mm Plexiglas eg. Satinice Ice Blue 5h03 DC. Final spec TBC.
3. All fastenings are to be 8.8 grade stainless steel.
4. NB this star same as for the MARTIN PLACE TREE.

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AUSTRALIA
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PROJECT		SYDNEY CHRISTMAS INFRASTRUCTURE DESIGN	
CLIENT		CITY OF SYDNEY	
DRAWING TITLE		INFRASTRUCTURE DESIGN	
CREATIVE DIRECTOR		JAMES DIVE	
EXECUTIVE PRODUCER		KATE GOODEN	
DATE	SCALE		
18/3/18	1:15 @ A3		
DRAWING No	DRAWING BY		
GS ST 003	SAM HOBBS		
CONSULTING DESIGNER		SAM HOBBS samhobbsproductiondesign.com +61 419 981 781	
CONSULTING ENGINEER		EVENT ENGINEERING	
		17-19 O'Conner St Chippendale NSW 2008 ph 02 9690 1734	

Approved By: Morgan Sheehy
Signed:

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPENG NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

**EVENT
ENGINEERING**

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8. CUSTOMS HOUSE

8. Customs House Design Allocation



The Spiral Ribbon Star - Kinetic and Illuminated

Alternate usage of ornaments in colour combinations of:

1. Passive spinning red on green ribbon with white illuminated star.
2. Passive spinning green on red ribbon with white illuminated star.

8. Customs House Forecourt Decorations



Artist Impression / Customs House

8. Customs House Forecourt Decorations



Artist Impression / Customs House Detail

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9. LOCATION INSTALLATIONS FROM 2020

9. Location Roll-out from 2020 Street Decorations



Artist Impression / Redfern

From 2020 other Sydney districts with have the Spiral Ribbon Star decorations adorn their streets.

These include:

Erskinvile Road, Erskinvile 2020

Crown Street, Surry Hills 2020

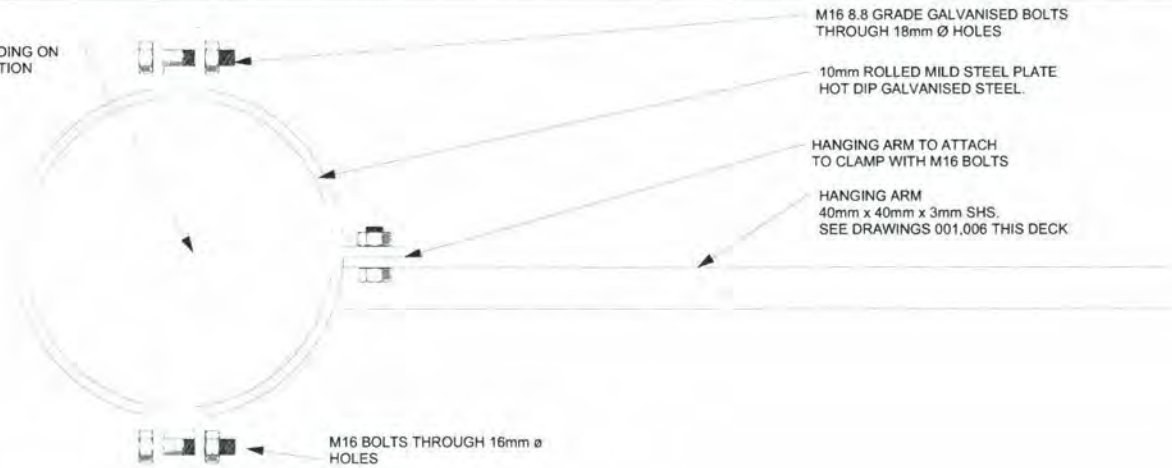
Redfern Street, Redfern 2021

Darlinghurst Road, Darlinghurst 2021

Glebe Point Road, Glebe 2021

Nb. These locations will have varying Light Pole Designs onto which the decorations are to be hung. These include Aluminium Smart Poles and Ausgrid Timber Poles. Attachment arms are the same for all configurations held with either a clamp plate, attachment clamp or band-it strap as specified within this document.

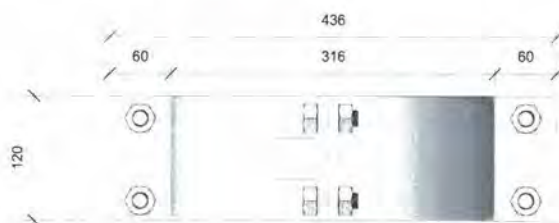
APPROX 300 Ø
SIZE VARIABLE DEPENDING ON
POLE AND CLAMP POSITION



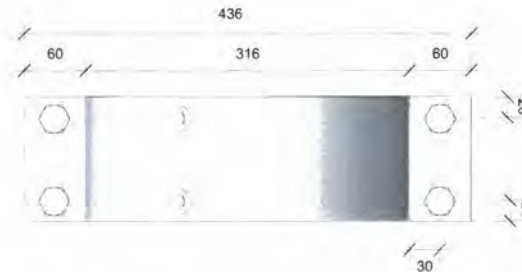
1 ATTACHMENT CLAMP TOP VIEW
Scale: 1:5



3 ATTACHMENT CLAP SIDE VIEW
Scale: 1:5



2 ATTACHMENT CLAMP RIGHT VIEW
Scale: 1:5



4 ATTACHMENT CLAMP LEFT VIEW
Scale: 1:5

GENERAL NOTES

1. INDICATIVE DRAWING OF GALVANISED STEEL ATTACHMENT CLAMP AND HANGING ARMS TO BE USED ON VILLAGE INSTALLATIONS WITH TIMBER AUSGRID POLES.
2. REFER TO DECORATION DRAWINGS IN THIS DECK - SYSTEM TO BE USED FOR TOP AND BOTTOM HANGING ARMS FOR BOTH RIBBON AND STAR DECORATION AND RIBBON AND BAUBLE DECORATION.
3. ALL BOLTS TO BE 8.8 GRADE GALVANISED STEEL.
4. STEEL TO BE MILD STEEL, HOT DIPPED GALVANISED.

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3 LITTLE QUEEN ST
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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
TIMBER POLE ATTACHMENT
SYSTEM

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
22/3/18

SCALE
1:5 @ A3

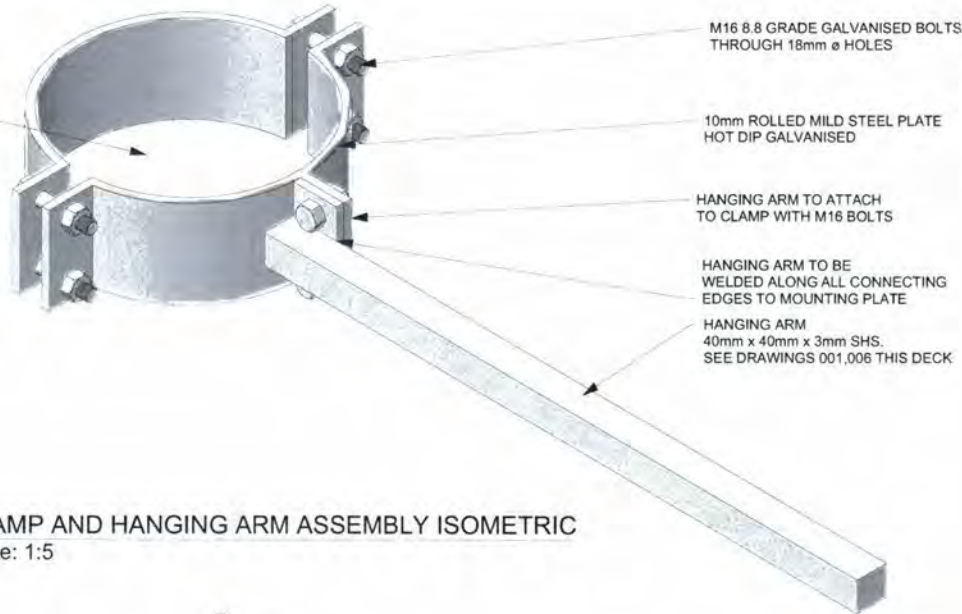
DRAWING No.
TLP 001

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

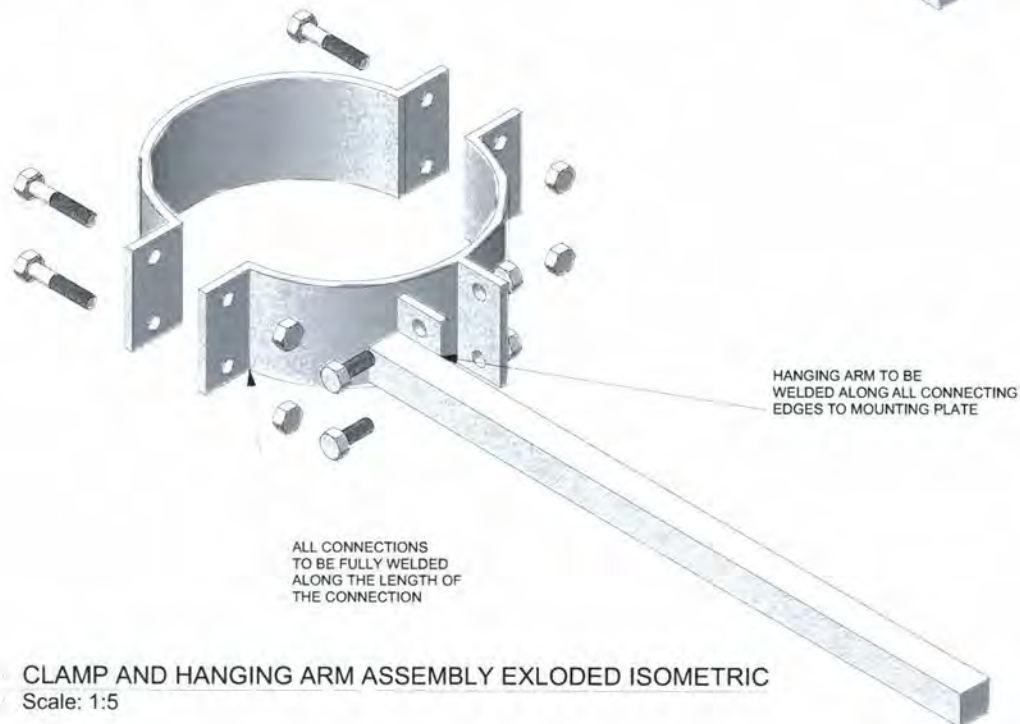
CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734

APPROX 300 Ø
SIZE VARIABLE DEPENDING ON
POLE AND CLAMP POSTION



1

CLAMP AND HANGING ARM ASSEMBLY ISOMETRIC
Scale: 1:5



2

CLAMP AND HANGING ARM ASSEMBLY EXLODED ISOMETRIC
Scale: 1:5

GENERAL NOTES

1. INDICATIVE DRAWING OF GALVANISED STEEL ATTACHMENT CLAMP AND HANGING ARMS TO BE USED ON VILLAGE INSTALLATIONS WITH TIMBER AUSGRID POLES.
2. REFER TO DECORATION DRAWINGS IN THIS DECK - SYSTEM TO BE USED FOR TOP AND BOTTOM HANGING ARMS FOR BOTH RIBBON AND STAR DECORATION AND RIBBON AND BAUBLE DECORATION.
3. ALL BOLTS TO BE M16 8.8 GRADE GALVANISED STEEL. BOLTS HOLES TO BE 18mm Ø.
4. STEEL TO BE MILD STEEL, HOT DIPPED GALVANISED.

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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
TIMBER POLE ATTACHMENT
SYSTEM

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
22/3/2018

SCALE
1:5 @ A3

DRAWING No.
TLP 002

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Installation by Site

Indicative Type Allocation Schedule

YEAR OF INSTALLATION	2018	2019	2020	2021	2022
----------------------	------	------	------	------	------

This schedule is purely to indicate the possibility of being able to rotate decorations between sites to keep the decorations feeling fresh and new, ie. The decorations utilised in the CBD and Green Square could be re directed for use in other locations in 2020 with a new colour scheme to replace them in the CBD and GS.

MARTIN PLACE, SYDNEY CBD					
GEORGE STREET, SYDNEY CBD		TBC	TBC	TBC	TBC
PITT STREET MALL, SYDNEY CBD					
GREEN SQUARE	TBC	TBC	TBC	TBC	TBC
ERSKINVILLE ROAD, ERSKINVILLE					
CROWN STREET, SURRY HILLS					
REDFERN STREET, REDFERN					
DARLINGHURST ROAD, DARLINGHURST					
GLEBE POINT ROAD, GLEBE					

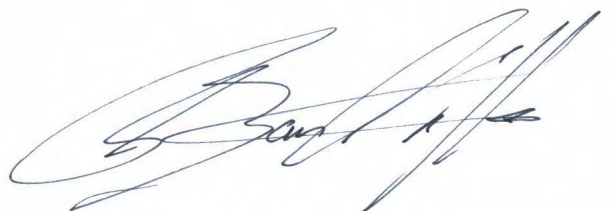
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Thank You

Sam Hill

scoundrel

Sydney Christmas Infrastructure Design
City of Sydney
Scoundrel Projects
26th March, 2018.

A handwritten signature in blue ink, which appears to be "Ben Affleck", is located at the bottom right of the page. The signature is stylized and fluid.

Sydney Christmas Infrastructure Design

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CONTACT DETAILS

Kate Gooden

Executive Producer

+61 2 8287 8800
+61 402 215 898
kate@scoundrel.co

3 Little Queen St
Chippendale NSW 2008
Australia.

James Dive

Project Director

+61 2 8287 8800
+61 431 526 055
james@scoundrel.co

3 Little Queen St
Chippendale NSW 2008
Australia.

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CREATIVE OVERVIEW

Tradition with a sprinkle of humour. That's the plan.

When combined, these two unsuspecting bedfellows create the perfect summation of a Sydney Christmas.

On one hand Sydney loves its rigid tradition - we love our elegant trees, our ornate decorations, and dazzling lights.

But on the other hand there is an undeniable levity to Christmas in Sydney. Maybe it is the heat, maybe it is cocktail umbrellas, but the festive season in Sydney seems to just take itself a little less seriously.

Our role is to capture this unique dual love. Let's celebrate a love of Christmas tradition imbued with a very Sydney wink.

Our approach will be guided by our two pillars: Tradition and humour. So let's first start with tradition.

Our trees must be timeless. Nostalgia and elegance will drive our design considerations. Our trees will reflect traditional form and characteristics. They will be green, full, layered, textured and visually consistent.

These graceful trees will form the perfect canvas for decoration. Drawing upon the elegant design language established by Toko, our first focus will be to bring the baubles to life.

The suite of baubles will be realised as beautiful objects. Each bauble will be available at multiple scales, be impossibly shiny and be detail perfect.

Our baubles will be generous in coverage, creating a dominant impact across each tree. These baubles will then be complimented by additional decorative recommendations.

These recommendations include punctuating each tree with a series of large scale (artificial) native summer flowers, a bespoke illuminated ornate star at the top, golden ribbon, and of course seemingly thousands of beautiful colour-controlled twinkling lights.

By achieving a beautiful, complex aesthetic which is expertly replicated with absolute consistency across every tree in Sydney, our visual impact will be visually sophisticated and comprehensive.

As evidence that tradition and humour can be a powerful combination we need to look no further than the endorsed design language for Christmas in the City 2018-22.

The combination of a traditional Christmas element (the bauble) with an object of levity (a beach ball) creates an instant statement that Christmas in Sydney is just a bit more fun.

But most importantly, the balance is right. It is a design language that is both traditional and fun, without detriment to either element. And that is how we should approach any additional humorous elements. Our humour should be complimentary, not overbearing.

In addition to our fun Sydney baubles our proposal to add an additional participatory element to all of our trees. And it involves a wombat.

A Christmas wombat.

Our proposal is that in each tree throughout the city, obscured by our stunning decorations, is a resident Christmas wombat. Somewhat like a Yuletide version of 'Where's Wally' it becomes a challenge for the public (and especially kids) to find the resident wombat in each tree around Sydney.

But the true manifestation of this proposal occurs at the hero Martin Place tree. In this execution our Christmas wombat doesn't remain stationary for an audience to find. Rather, he/she is on the move.

Our elusive Christmas wombat will quickly appear (and disappear) throughout and around the entire tree. To facilitate this peekaboo technique, hidden within the tree will be a series of mechanics that allow multiple wombats to protrude at different locations systematically - giving the impression that just one wombat is moving around the tree.

By simply adding a humorous element to our trees not only do we create a strong narrative across the campaign, but we achieve huge participation and interaction with the public. The wombat will be the most hunted thing on Instagram, we can run a competition for the first person to find all the wombats, and I know I for one will take my kids to try and find the Christmas Wombat in Martin Place.

Creative Overview
Artist Impression - Christmas Tree



Artist Impression / 3D render of Martin Place tree.

Creative Overview
Artist Impression - Christmas Tree Detail



Artist Impression / 3D render of Martin Place tree 24 metre high Christmas Tree.

Creative Overview

Scalable Design

Diagram showing scaling of our tree design for different site applications. The language of the trees would be consistent throughout the city.





1

Martin Place Tree Dressing Diagram 24m

Scale 1:100

Basic Dimensions

Overall Size: 24m x 12m

Star: 2.4m x 2.4m

Baubles: 850mm Dia x 6 kinds

Flower Bursts: 300mm Dia x 8 kinds

Ribbon: Sinamay 600mm width @ approx 2m diagonal centres

Sinamay Ribbon

Ribbon to wrap tree in an organic undulating pattern pushing deep into the tree intermittently and re-emerging as it travels to the top.

Quantities

Baubles: Total 240 (40 x 6 kind)

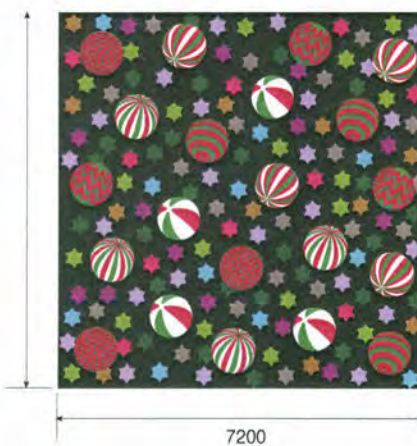
Flowers Bursts: Total 1600 (200 x 8 kind)

Ribbon: Approximately 300 linear metres

Average Density and distribution of decorations over 7200mm²

21 Baubles / 6 kind

140 Flowers / 8 kind



Tree Dressing Specification

24 Metre Christmas Tree

KEY

- | | | | |
|---|------------------------------|---|------------------------------------|
|  | 850mm Dia Bauble (Design 01) |  | 300mm Floral 01 (Kangaroo Paw) |
|  | 850mm Dia Bauble (Design 02) |  | 300mm Floral 02 (Red Waratah) |
|  | 850mm Dia Bauble (Design 03) |  | 300mm Floral 03 (Bottle Brush) |
|  | 850mm Dia Bauble (Design 04) |  | 300mm Floral 04 (Paper Daisy) |
|  | 850mm Dia Bauble (Design 05) |  | 300mm Floral 05 (Wattle) |
|  | 850mm Dia Bauble (Design 06) |  | 300mm Floral 06 (wild Gum Blossom) |
| | |  | 300mm Floral 07 (Flannel Flower) |
|  | Sinamay Ribbon 600mm W |  | 300mm Floral 08 (Isopogon) |

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1. MARTIN PLACE CHRISTMAS TREE SUBFRAME



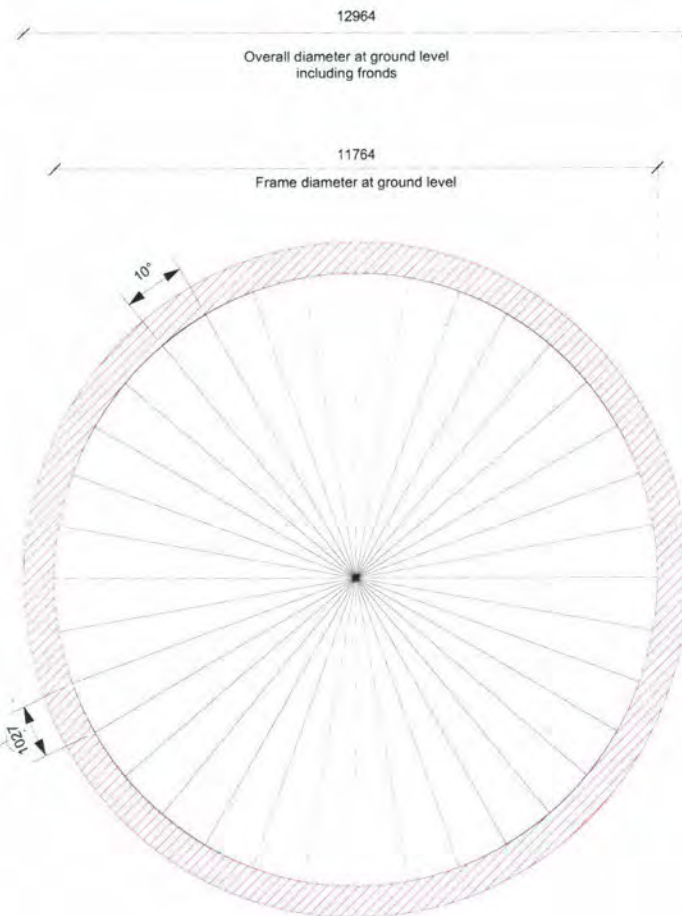
1

Section Study
Scale: 1:100

Arc length at base of tree frame

Tree frond greenery zone

2360 dimension made up of 2x 1160 modular branch sections plus 2x 20mm allowances



2

Plan - Segment Divisions
Scale: 1:100

NOTES

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
TREE GEOMETRY PLAN & SECTION

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
24/2/18

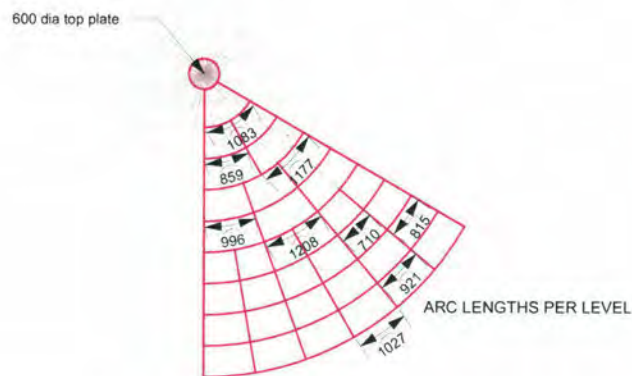
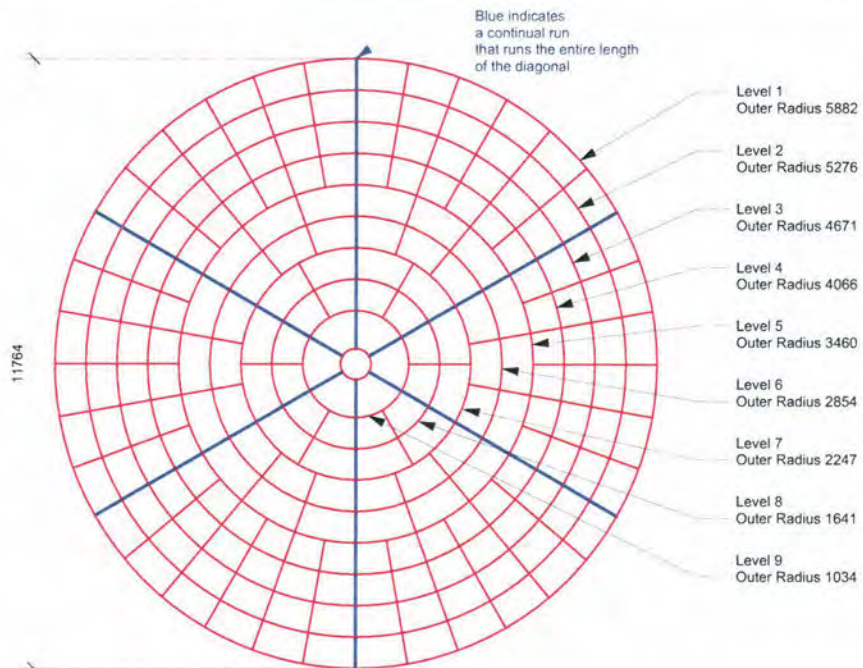
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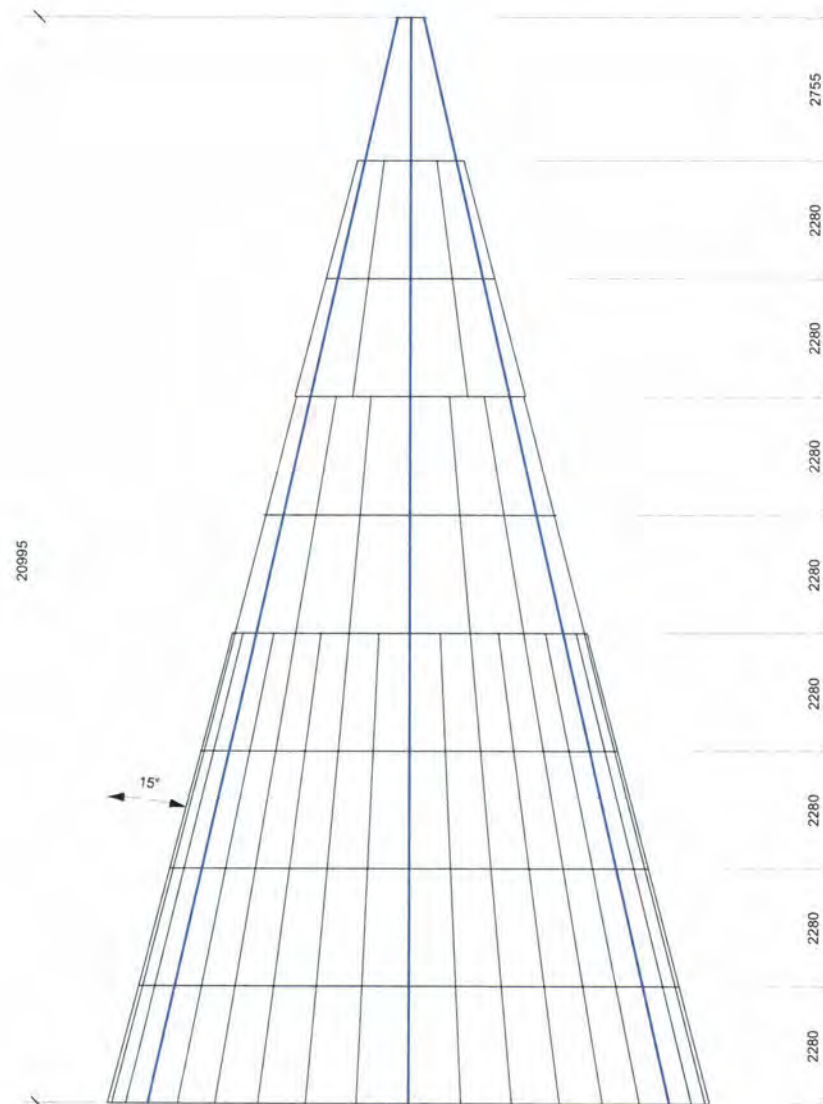
DRAWING BY
CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



1 Proposed Frame Configuration
Scale: 1:100



2 Front Elevation
Scale: 1:100

NOTES

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
PROPOSED TREE
FRAME CONFIGURATION

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
24/2/18

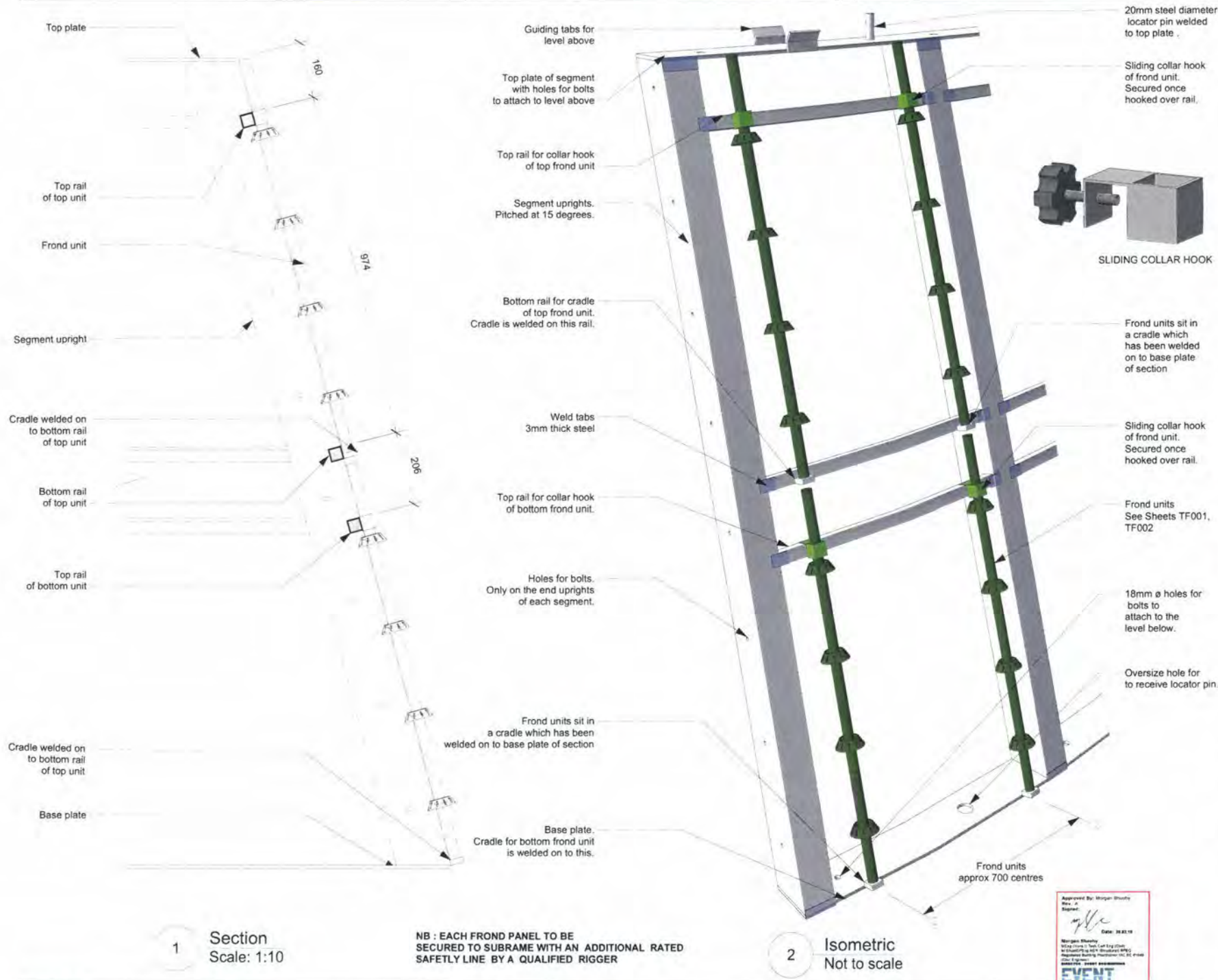
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DRAWING No.
MPT002

DRAWING BY
CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
sam@scoundrelproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



GENERAL NOTES

STEEL
Subframe to be constructed in
All bolts joining vertical elements
shall be M12 bolts in M14 holes.
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements
shall be M12 bolts in 14mm ϕ
holes.

All bolts joining horizontal elements
shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001
for full specification on preparation and
coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting
as per Dulux specification.

2. Coating System
1st Coat Zincoanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
TYPICAL FRAME SEGMENT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
10/3/18

SCALE
1:10 @ A3

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MPT003

DRAWING BY
CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 951 781

CONSULTING ENGINEER,
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

20mm steel diameter
locator pin welded
to top plate.

Sliding collar hook
of frond unit.
Secured once
hooked over rail.



SLIDING COLLAR HOOK

Frond units sit in
a cradle which
has been welded
on to base plate
of section

Sliding collar hook
of frond unit.
Secured once
hooked over rail.

Frond units
See Sheets TF001,
TF002

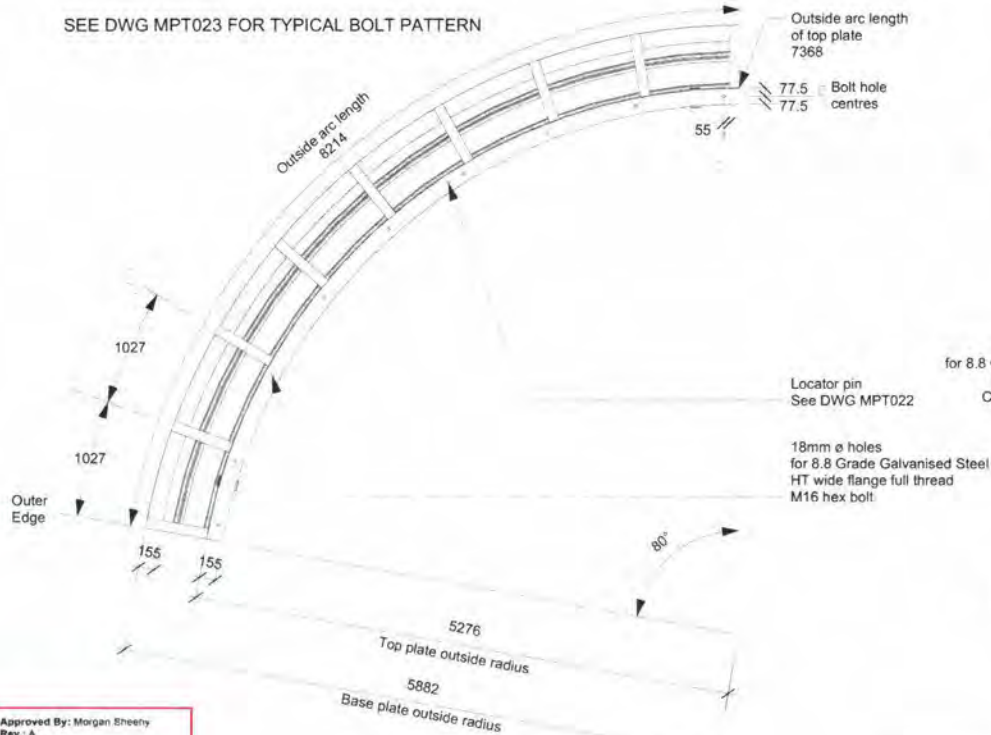
18mm ϕ holes for
bolts to
attach to the
level below.

Oversize hole for
to receive locator pin.

Frond units
approx 700 centres



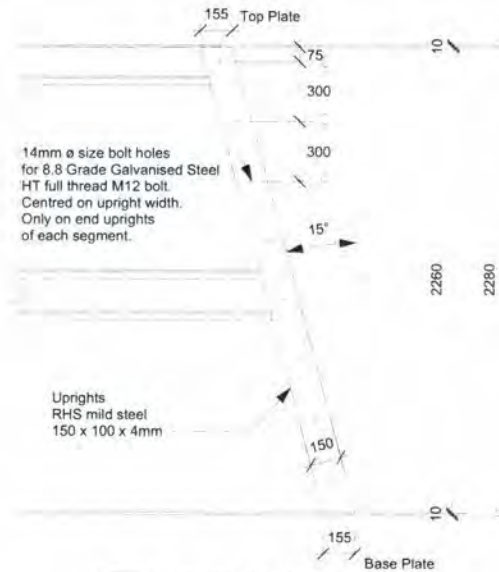
SEE DWG MPT023 FOR TYPICAL BOLT PATTERN



1 Plan
Scale: 1:50



2 Front Elevation
Scale: 1:50



4 Uprights Section
Scale: 1:25



3 Segment Detail
Scale: 1:30

SEGMENT SPECS

Top Plate

Thickness: 10mm mild steel
Outer Radius: 5276
Inner Radius: 5121
Width: 155

Base Plate

Thickness: 10mm mild steel
Outer Radius: 5882
Inner Radius: 5727
Width: 155

Uprights

150 x 100 x 4mm
RHS mild steel

Rails

35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

Top Plate: 87.92kg
Base Plate: 98.91kg
Uprights (each): 34.928kg
Uprights (total): 314.352kg
Rails: 57.57352kg

Total of Segment: 558.75552kg

x4 Segments: 2,235.02208kg

GENERAL NOTES

STEEL

Subframe to be constructed in mild steel.
All bolts joining vertical elements shall be M12 bolts in M14 holes.
All fastenings must be 8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ø holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ø holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zinccanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

LEVEL 1 SEGMENT DETAIL

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

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CARLO CRESCINI

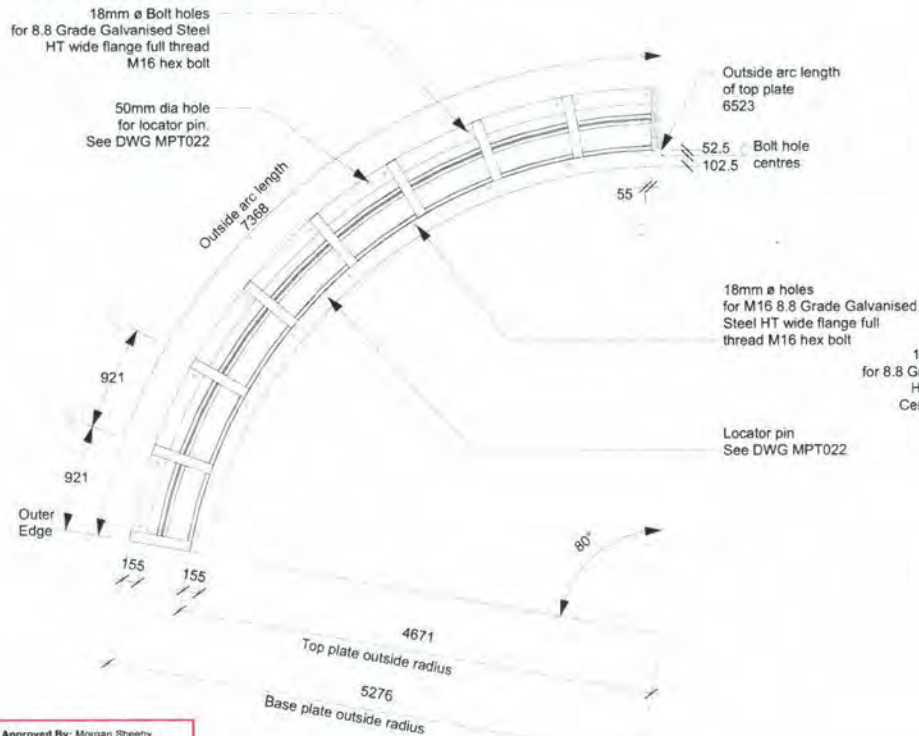
CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9699 1734

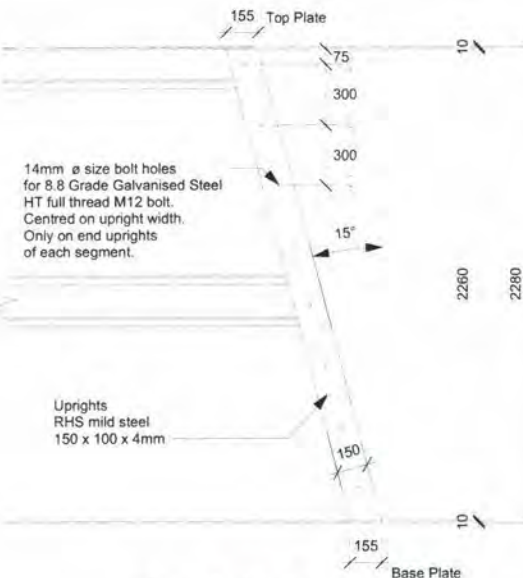
SEE DWG MPT023 FOR TYPICAL BOLT PATTERN



1 Plan Scale: 1:50



2 Front Elevation Scale: 1:50



4 Uprights Section Scale: 1:25



3 Segment Detail

SEGMENT SPECS

Top Plate

Thickness: 10mm mild steel
Outer Radius: 4671
Inner Radius: 4516
Width: 155

Base Plate

Thickness: 10mm mild steel
Outer Radius: 5276
Inner Radius: 5121
Width: 155

Uprights

150 x 100 x 4mm
RHS mild steel

Rails

35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

Top Plate: 77.715kg
Base Plate: 87.92kg
Uprights (each): 34.928kg
Uprights (total): 314.352kg
Rails: 56.45001kg

Total of Segment: 536.43701kg

x4 Segments: 2,145.74804kg

GENERAL NOTES

STEEL

Subframe to be constructed in All bolts joining vertical elements shall be M12 bolts in M14 holes. All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux. Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

LEVEL 2 SEGMENT DETAIL

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

10/3/18

SCALE

1:50 @ A3
1:25 @ A3

DRAWING No.

MPT005

DRAWING BY

CARLO CRESCINI

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

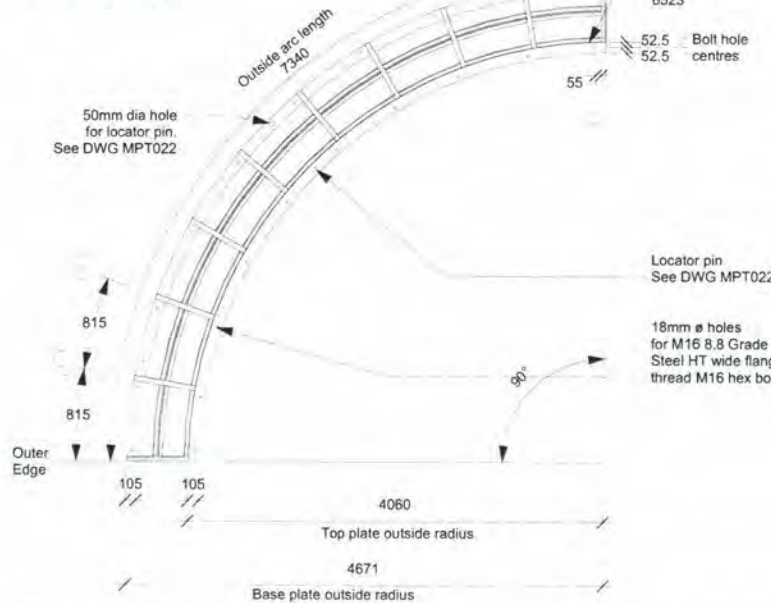
Approved By: Morgan Sheehy
Rev: A
Signed:
Date: 20.03.18

Morgan Sheehy
MEng (Hons) Tech Cert Eng (Civil)
MBAustCPMng MCR (Structural) RMCQ
Registered Building Practitioner VIC E.C. 11049
(Civil Engineer)
EVENT
ENGINEERING

SEE DWG MPT023 FOR TYPICAL BOLT PATTERN

18mm ϕ Bolt holes
for 8.8 Grade Galvanised Steel
HT wide flange full thread
M16 hex bolt

50mm dia hole
for locator pin.
See DWG MPT022



1 Plan
Scale: 1:50

Approved By: Morgan Sheehy
Rev.: A
Signed: *[Signature]*
Date: 28.03.18
Morgan Sheehy
MEng (Hons) B Tech Cert Eng (Civil)
MEMBERSHIP NER (Structural) NREO
(Civil Engineer)
EVENT ENGINEERING



2 Front Elevation
Scale: 1:50

Top plate
Plasma cut
10mm mild steel
Outer Radius: 4061
Inner Radius: 3956
Width: 105

Uprights
100 x 50 x 4mm
RHS mild steel

14mm ϕ size bolt holes
for 8.8 Grade Galvanised Steel
HT full thread M12 bolt.
Centred on upright width.
Only on end uprights
of each segment.

Locator pin
See DWG MPT022

18mm ϕ holes
for M16 8.8 Grade Galvanised
Steel HT wide flange full
thread M16 hex bolt

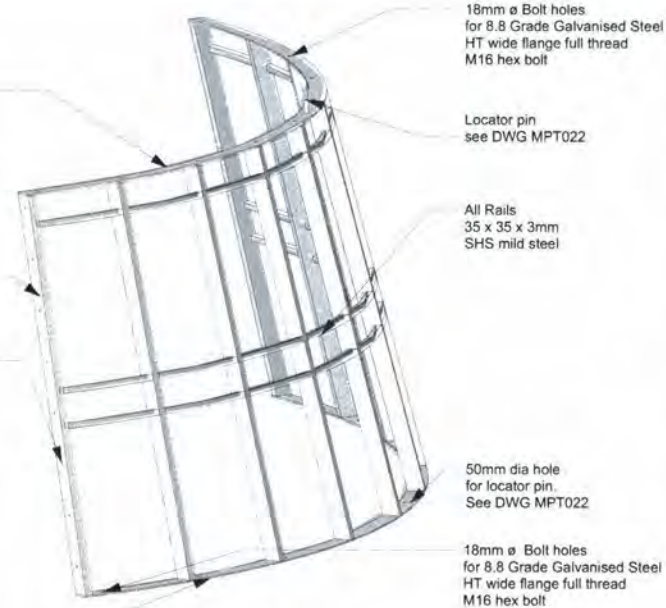
Base plate
Plasma cut
10mm mild steel
Outer Radius: 4671
Inner Radius: 4566
Width: 105



14mm ϕ size bolt holes
for 8.8 Grade Galvanised Steel
HT full thread M12 bolt.
Centred on upright width.
Only on end uprights
of each segment.

Uprights
RHS mild steel
100 x 50 x 4mm

4 Uprights Section
Scale: 1:25



3 Segment Detail

SEGMENT SPECS

Top Plate

Thickness: 10mm mild steel
Outer Radius: 4061
Inner Radius: 3956
Width: 105

Base Plate

Thickness: 10mm mild steel
Outer Radius: 4671
Inner Radius: 4566
Width: 105

Uprights

100 x 50 x 4mm
RHS mild steel

Rails

35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

Top Plate: 51.81kg
Base Plate: 587.875kg
Uprights (each): 20.0364kg
Uprights (total): 200.364kg
Rails: 56.87451kg

Total of Segment: 367.92351kg

x4 Segments: 1,471.69404kg

GENERAL NOTES

STEEL
Subframe to be constructed in
All bolts joining vertical elements
shall be M12 bolts in M14 holes.

All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements
shall be M12 bolts in 14mm ϕ
holes.

All bolts joining horizontal elements
shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001
for full specification on preparation and
coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting
as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
LEVEL 3 SEGMENT DETAIL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

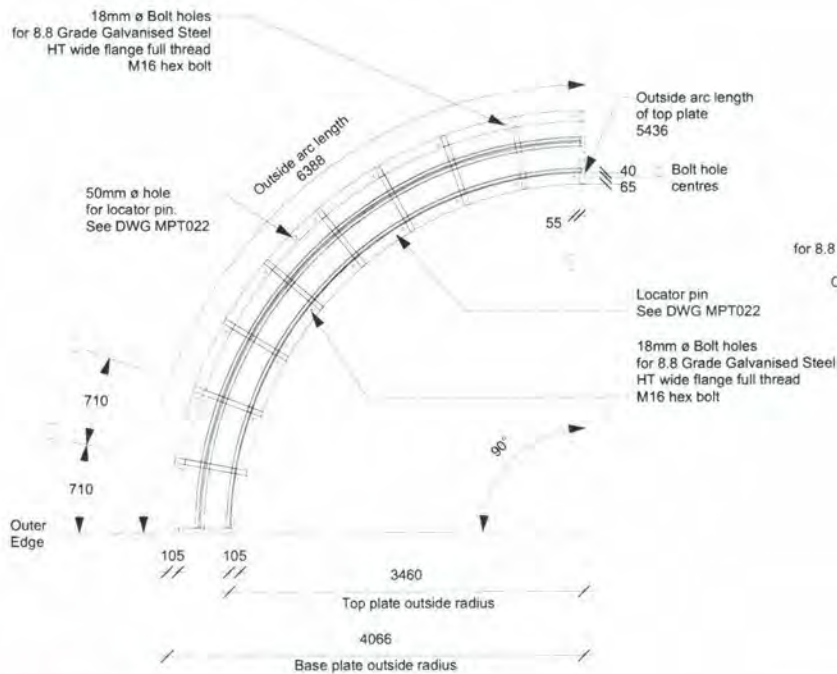
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DRAWING No. DRAWING BY
MPT006 CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

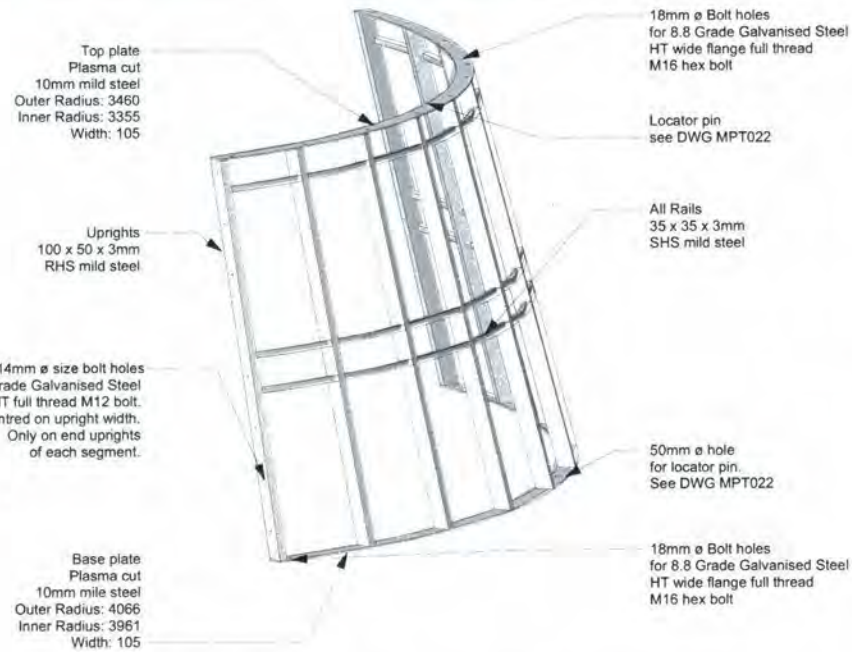
SEE DWG MPT023 FOR TYPICAL BOLT PATTERN



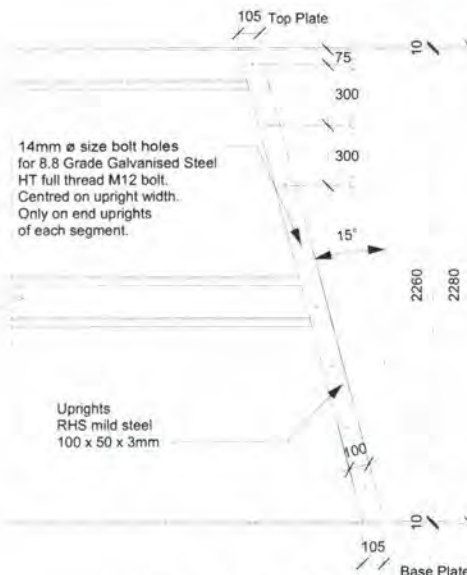
1 Plan Scale: 1:50



2 Front Elevation Scale: 1:50



3 Segment Detail Scale: 1:30



4 Uprights Section Scale: 1:25

SEGMENT SPECS

Top Plate

Thickness: 10mm mild steel
Outer Radius: 4061
Inner Radius: 3956
Width: 105

Base Plate

Thickness: 10mm mild steel
Outer Radius: 4671
Inner Radius: 4566
Width: 105

Uprights

100 x 50 x 3mm
RHS mild steel

Rails

35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

Top Plate: 43.96kg
Base Plate: 51.81kg
Uprights (each): 18.678kg
Uprights (total): 186.78kg
Rails: 48.65053kg

Total of Segment: 331.20053kg

x4 Segments: 1,324.80212kg

GENERAL NOTES

STEEL

Subframe to be constructed in
All bolts joining vertical elements shall be M12 bolts in M14 holes.
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

-DRAFT -
NOT FOR CONSTRUCTION

scoundrel

3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

LEVEL 4 SEGMENT DETAIL

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

10/3/18

SCALE

1:50 @ A3
1:25 @ A3

DRAWING No.

MPT007

DRAWING BY

CARLO CRESCINI

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

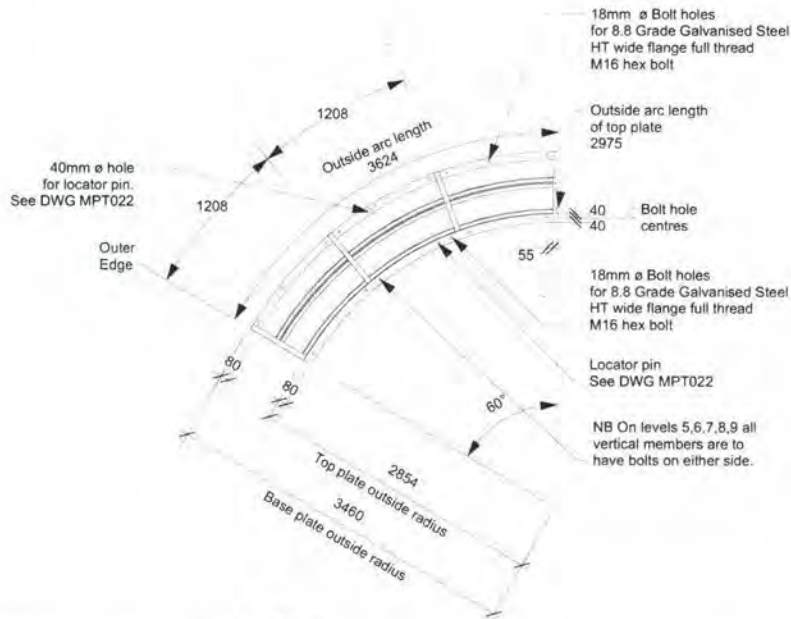
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

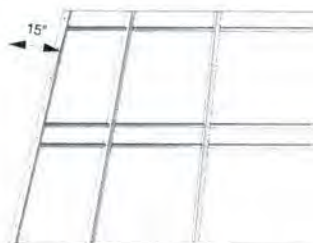
Date: 20.03.18

Morgan Sheehy
MEng (Hons) B Tech Cert Eng (Civil)
MEMBERSHIP RER (Structural) RPEO
Registered Building Practitioner VISO EC 41048
(Civil Engineer)
EVENT
ENGINEERING

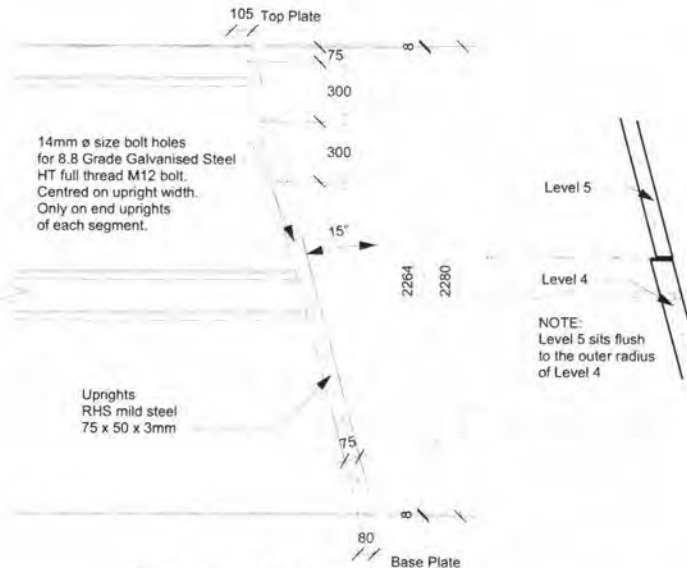
SEE DWG MPT023 FOR TYPICAL BOLT PATTERN



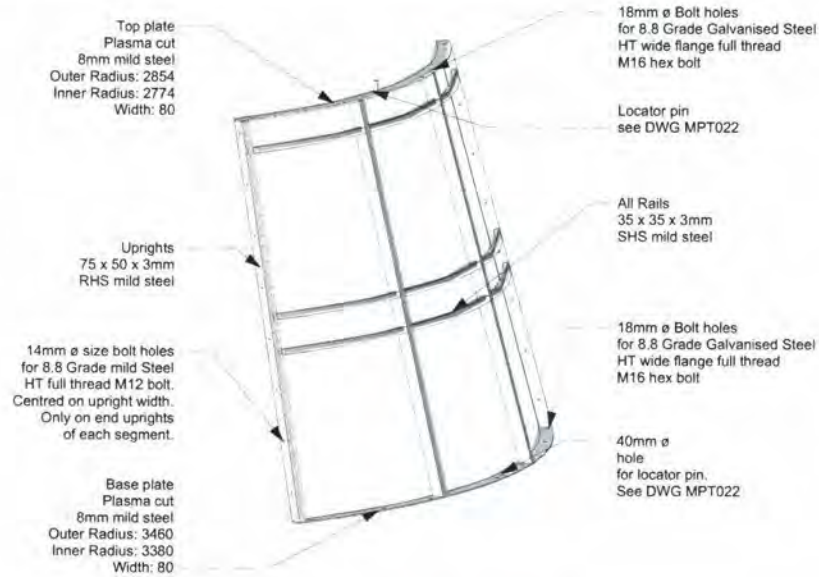
1 Plan Scale: 1:50



2 Front Elevation Scale: 1:50



4 Uprights Section Scale: 1:25



3 Segment Detail Scale: 1:30

SEGMENT SPECS

Top Plate
Thickness: 8mm mild steel
Outer Radius: 2854
Inner Radius: 2774
Width: 80

Base Plate
Thickness: 8mm mild steel
Outer Radius: 3460
Inner Radius: 3380
Width: 80

Uprights
75 x 50 x 3mm
RHS mild steel

Rails
35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

Top Plate: 14.915kg
Base Plate: 18.055kg
Uprights (each): 12.7912kg
Uprights (total): 51.1648kg
Rails: 26.99254kg

Total of Segment: 111.12734kg
x6 Segments: 666.76404kg

GENERAL NOTES

STEEL
Subframe to be constructed in All bolts joining vertical elements shall be M12 bolts in M14 holes.
FINISHES
All fastenings must be 8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ø holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ø holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux. Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
LEVEL 5 SEGMENT DETAIL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
10/3/18 1:50 @ A3
1:25 @ A3

DRAWING No. DRAWING BY
MPT008 CARLO CRESCINI

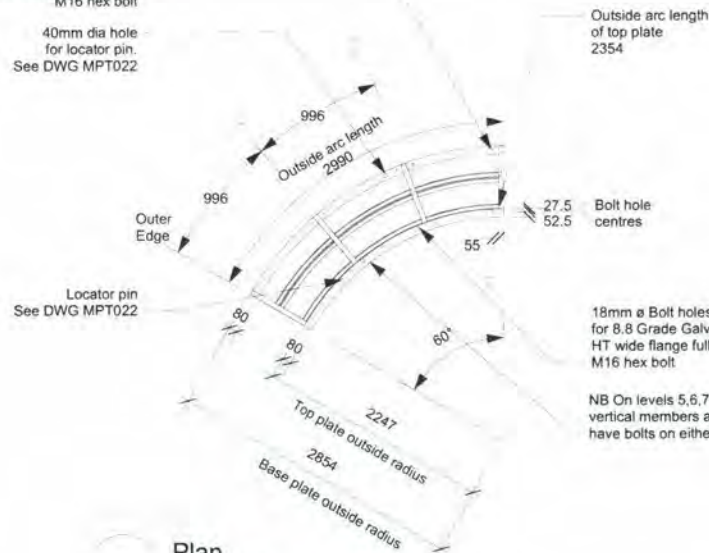
CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

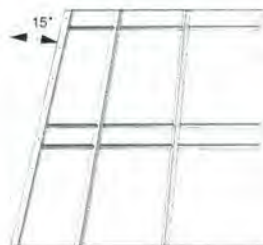
SEE DWG MPT023 FOR TYPICAL BOLT PATTERN

18mm Bolt holes
for 8.8 Grade Galvanised Steel
HT wide flange full thread
M16 hex bolt

40mm dia hole
for locator pin.
See DWG MPT022



1 Plan
Scale: 1:50



2 Front Elevation
Scale: 1:50

14mm ϕ size bolt holes
for 8.8 Grade Galvanised Steel
HT full thread M12 bolt.
Centred on upright width.
Only on end uprights
of each segment.

Uprights
RHS mild steel
75 x 50 x 3mm

18mm ϕ Bolt holes
for 8.8 Grade Galvanised Steel
HT wide flange full thread
M16 hex bolt

Top plate
Plasma cut
8mm mild steel
Outer Radius: 2247
Inner Radius: 2167
Width: 80

14mm ϕ size bolt holes
for 8.8 Grade mild Steel
HT full thread M12 bolt.
Centred on upright width.
Only on end uprights
of each segment.

Base plate
Plasma cut
8mm mild steel
Outer Radius: 2854
Inner Radius: 2774
Width: 80

Uprights
75 x 50 x 3mm
RHS mild steel

Locator pin
see DWG MPT016

All Rails
35 x 35 x 3mm
SHS mild steel

18mm ϕ Bolt holes
for 8.8 Grade Galvanised Steel
HT wide flange full thread
M16 hex bolt

40mm ϕ hole
for locator pin.
See DWG MPT022

3

Segment Detail
Scale: 1:30

SEGMENT SPECS

Top Plate

Thickness: 8mm mild steel
Outer Radius: 2247
Inner Radius: 2167
Width: 80

Base Plate

Thickness: 8mm mild steel
Outer Radius: 2854
Inner Radius: 2774
Width: 80

Uprights

75 x 50 x 3mm
RHS mild steel

Rails

35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

Top Plate: 11.775kg
Base Plate: 14.915kg
Uprights (each): 12.7912kg
Uprights (total): 51.1648kg
Rails: 21.59856kg

Total of Segment: 99.45336kg

x6 Segments: 596.72016kg

GENERAL NOTES

FASTENINGS.

All bolts joining vertical elements
shall be M12 bolts in M14 holes.

All bolts joining vertical elements
shall be M12 bolts in 14mm ϕ
holes.

All bolts joining horizontal elements
shall be M16 bolts in 18mm ϕ holes.

FINISHES - Final specifications
to be confirmed / finalised.

1. All steel to be galvanised.
2. All Welds to be spot primed with
Dulux Cold Galv or similar system.
3. Subframe to be primed with two
pack epoxy primer eg Dulux
Durabild STE Primer or similar.
One Coat.
4. Subframe to be treated with
polyurethane top coat eg. Dulux
Weathermax HBR or similar.
Colour: Dulux Brunswick Green
or similar. One Coat.

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AUSTRALIA
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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
LEVEL 6 SEGMENT DETAIL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
10/3/18

SCALE
1:50 @ A3
1:25 @ A3

DRAWING No.
MPT009

DRAWING BY
CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
sam@hobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

Morgan Sheehy

Date: 20.03.18

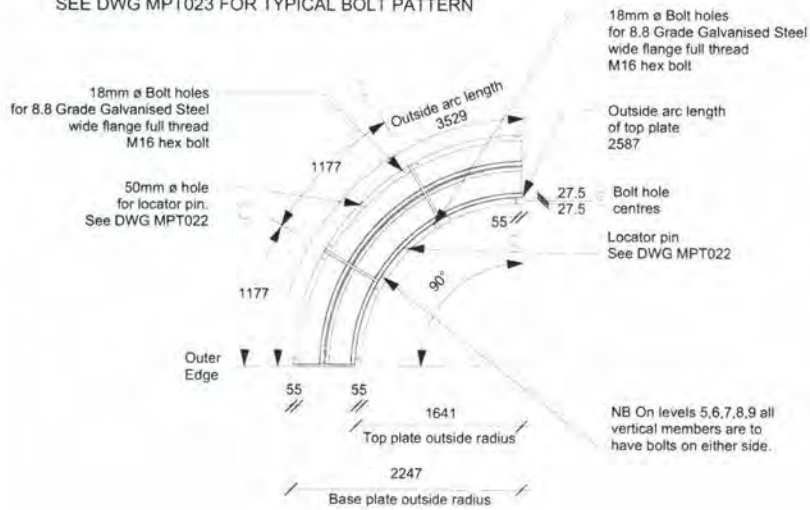
Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)

DIRECTOR - EVENT ENGINEERING

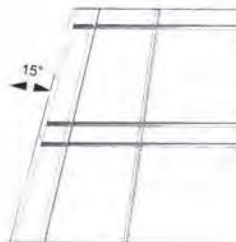
EVENT
ENGINEERING

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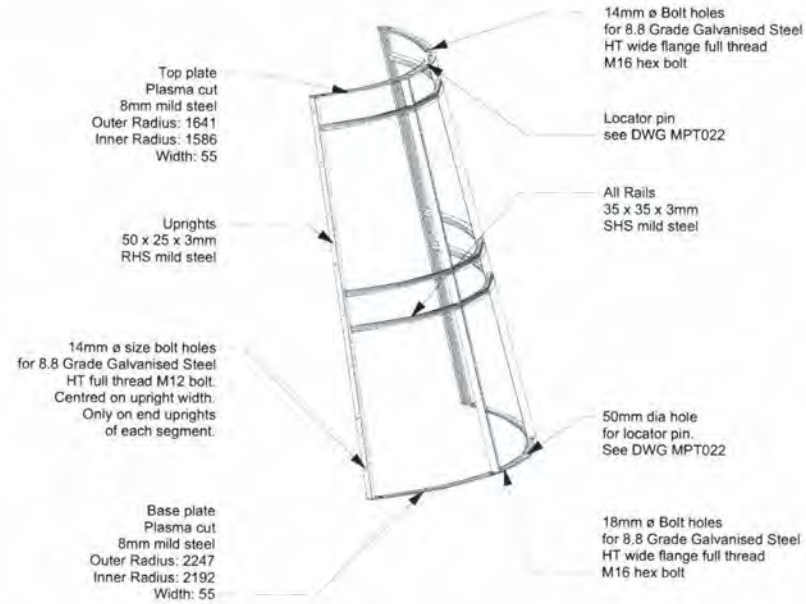
SEE DWG MPT023 FOR TYPICAL BOLT PATTERN



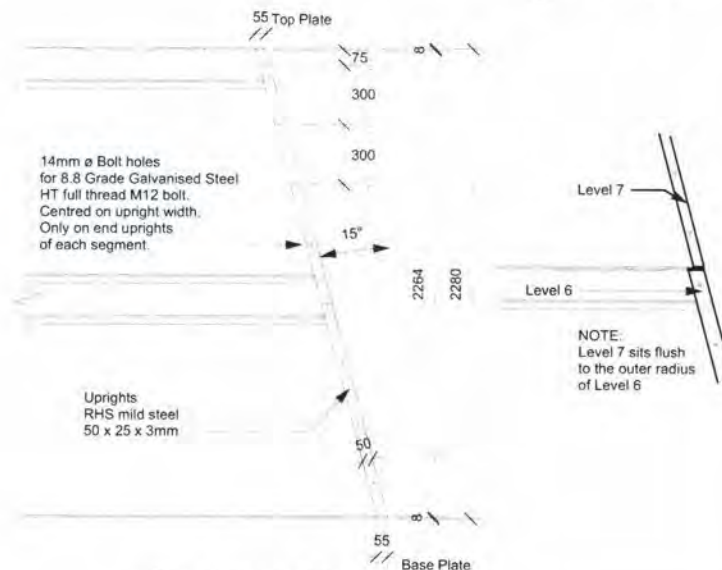
1 Plan Scale: 1:50



2 Front Elevation Scale: 1:50



3 Segment Detail Scale: 1:30



4 Uprights Section Scale: 1:25

SEGMENT SPECS

Top Plate
Thickness: 8mm mild steel
Outer Radius: 1641
Inner Radius: 1586
Width: 55

Base Plate
Thickness: 8mm mild steel
Outer Radius: 2247
Inner Radius: 2192
Width: 55

Uprights
50 x 25 x 3mm
RHS mild steel

Rails
35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

Top Plate: 8.635kg
Base Plate: 11.775kg
Uprights (each): 7.2452kg
Uprights (total): 28.9808kg
Rails: 24.75684kg

Total of Segment: 74.14764kg
x4 Segments: 296.59056kg

GENERAL NOTES

STEEL
All bolts joining vertical elements shall be M12 bolts in M14 holes.

FASTENINGS.
All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux. Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
LEVEL 7 SEGMENT DETAIL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
10/3/18 1:50 @ A3
1:25 @ A3

DRAWING No. DRAWING BY
MPT010 CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 851 751

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

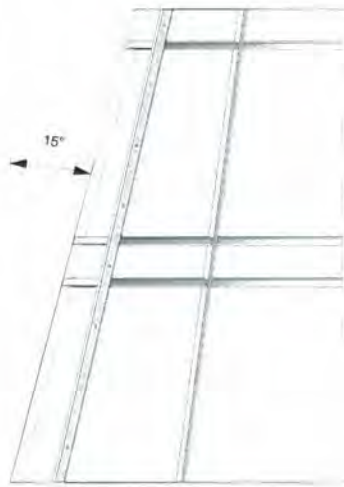
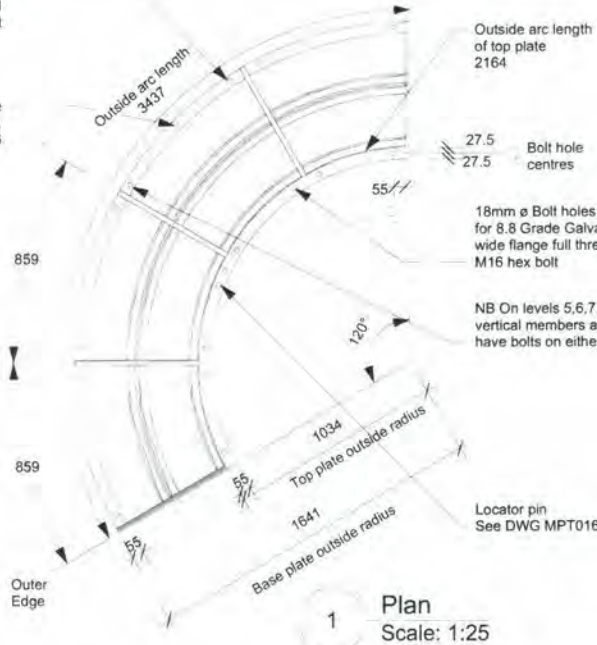
Approved By: Morgan Sheehy
Rev.: A
Signed:
Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner V/C EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT ENGINEERING
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SEE DWG MPT023 FOR TYPICAL BOLT PATTERN

18mm ϕ Bolt holes
for 8.8 Grade Galvanised Steel
wide flange full thread
M16 hex bolt

40mm ϕ hole
for locator pin.
See DWG MPT016



Top plate
Plasma cut
8mm mild steel
Outer Radius: 1034
Inner Radius: 979
Width: 55

Uprights
50 x 25 x 3mm
RHS mild steel

Base plate
Plasma cut
8mm mild steel
Outer Radius: 1641
Inner Radius: 1586
Width: 55

18mm ϕ Bolt holes
for 8.8 Grade Galvanised Steel
HT wide flange full thread
M16 hex bolt

Locator pin
see DWG MPT022

All Rails
35 x 35 x 3mm
SHS mild steel

40mm ϕ hole
for locator pin.
See DWG MPT022



3 Segment Detail
Scale: 1:30

SEGMENT SPECS

Top Plate

Thickness: 8mm mild steel
Outer Radius: 1034
Inner Radius: 979
Width: 55

Base Plate

Thickness: 8mm mild steel
Outer Radius: 1641
Inner Radius: 1586
Width: 55

Uprights

50 x 25 x 3mm
RHS mild steel

Rails

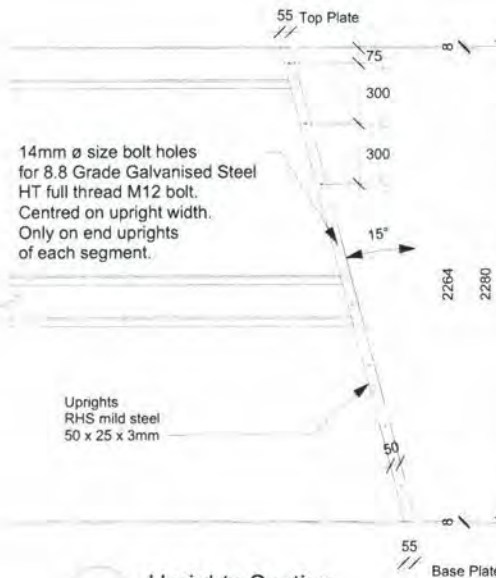
35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

Top Plate: 7.127015kg
Base Plate: 11.775kg
Uprights (each): 7.2452kg
Uprights (total): 36.226kg
Rails: 22.26361kg

Total of Segment: 77.391625kg

x3 Segments: 232.174875kg



GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.
All bolts joining vertical elements shall be M12 bolts in M14 holes.

8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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3 LITTLE QUEEN ST
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AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
LEVEL 8 SEGMENT DETAIL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
10/3/18

SCALE
1:25 @ A3

DRAWING No
MPT011

DRAWING BY
CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

Morgan Sheehy

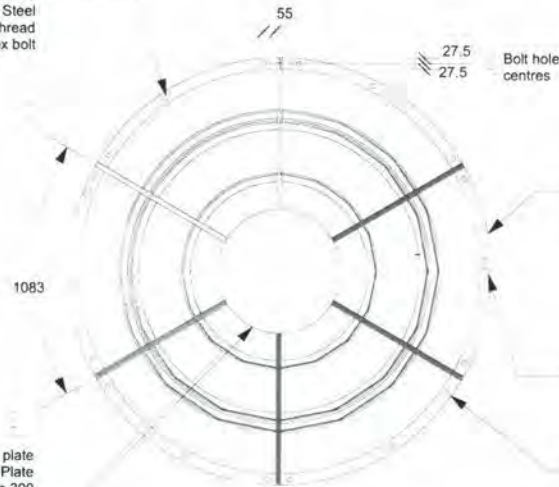
Date: 20.03.18

Morgan Sheehy
MEng (Hons II) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING
scoundrel

SEE DWG MPT023 FOR TYPICAL BOLT PATTERN

18mm ϕ Bolt holes
for 8.8 Grade Galvanised Steel
wide flange full thread
M16 hex bolt

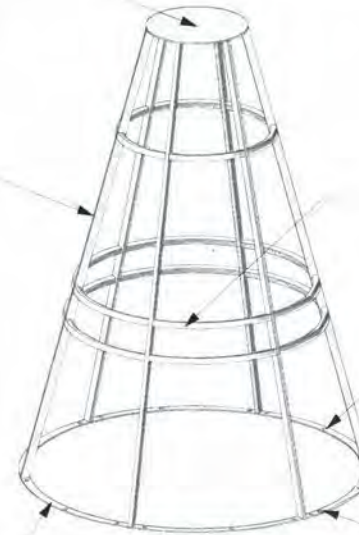


1 Plan
Scale: 1:25

Top plate
Plasma cut solid disc
10mm mild steel
Radius: 300

Uprights
50 x 25 x 3mm
RHS mild steel

Base plate
Plasma cut
8mm mild steel
Outer Radius: 1034
Inner Radius: 979
Width: 55



4 Segment Detail
Scale: 1:30



GENERAL NOTES

STEEL
Subframe to be constructed in
All bolts joining vertical elements
shall be M12 bolts in M14 holes.
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements
shall be M12 bolts in 14mm ϕ
holes.

All bolts joining horizontal elements
shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001
for full specification on preparation and
coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting
as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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CHIPPENDALE NSW 2008
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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
LEVEL 9 DETAIL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
10/3/18 1:25 @ A3

DRAWING No. DRAWING BY
MPT012 CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 881 781

CONSULTING ENGINEER
EVENT
ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

SEGMENT SPECS

Top Plate
Thickness: 10mm mild steel
Radius: 300

Base Plate
Thickness: 8mm mild steel
Outer Radius: 1034
Inner Radius: 979
Width: 55

Uprights
50 x 25 x 3mm
RHS mild steel

Rails
35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

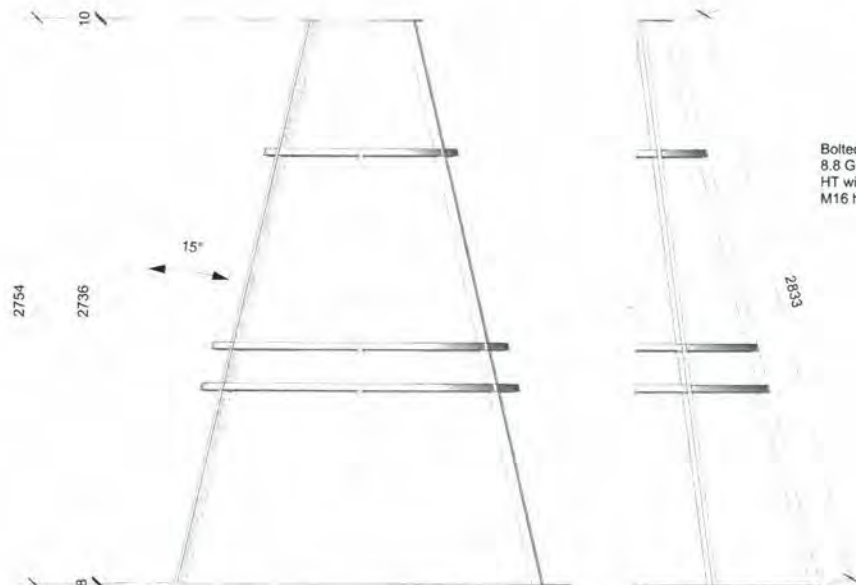
Top Plate: 21.924kg
Base Plate: 21.195kg
Uprights (each): 8.69731kg
Uprights (total): 52.18386kg
Rails: 35.27029kg

Total of Unit: 130.57315kg

Bolted together using
8.8 Grade Galvanised Steel
HT wide flange full thread
M16 hex bolt

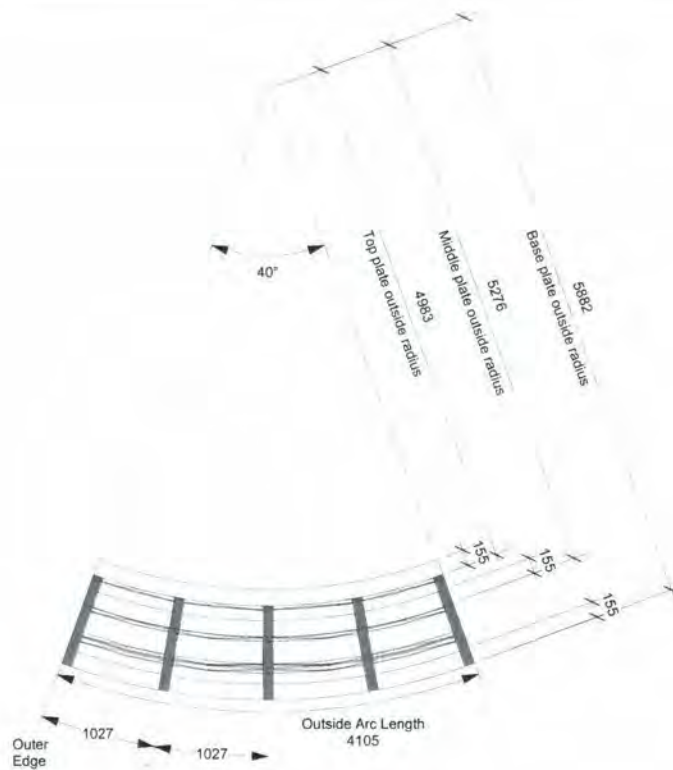


5 Star Plate Attachment Detail
Scale: 1:30

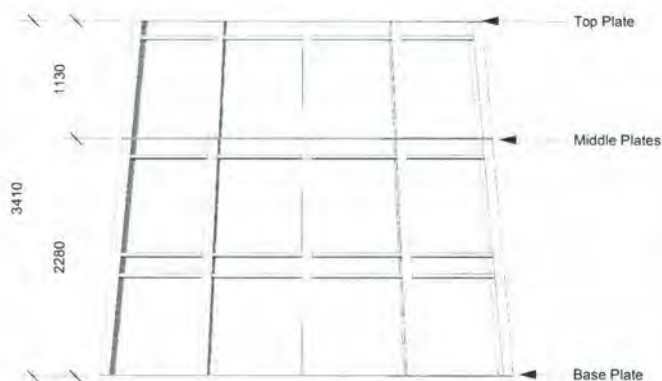


2 Front Elevation
Scale: 1:25

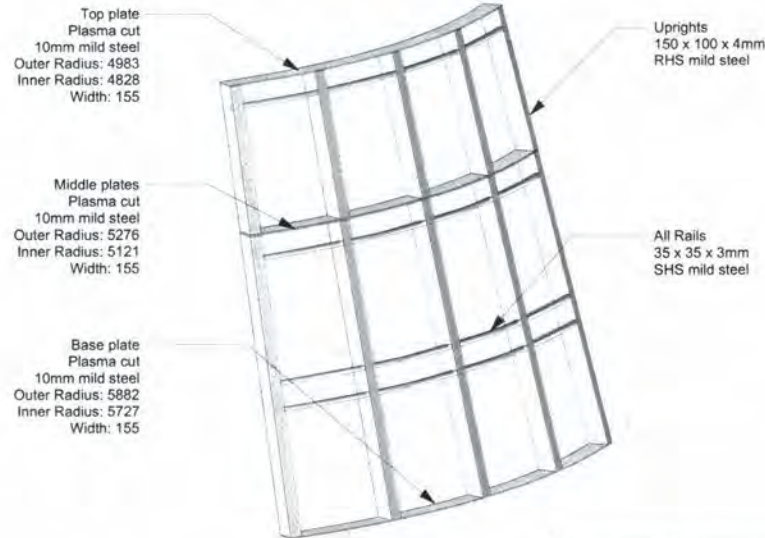
3 Section
Scale: 1:25



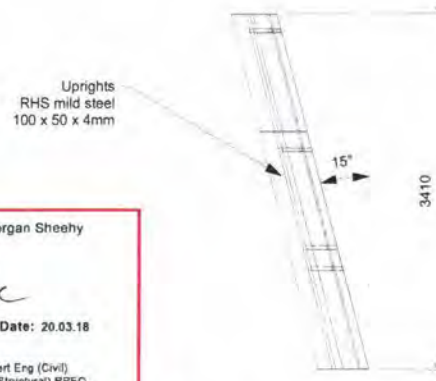
1 Plan
Scale: 1:50



2 Front Elevation
Scale: 1:50



3 Segment Detail



4 Side Elevation
Scale: 1:50

Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT ENGINEERING

SEGMENT SPECS

Top Plate
Thickness: 10mm mild steel
Outer Radius: 4983
Inner Radius: 4828
Width: 155

Middle Plates
Thickness: 10mm mild steel
Outer Radius: 5276
Inner Radius: 5121
Width: 155

Base Plate
Thickness: 10mm mild steel
Outer Radius: 5882
Inner Radius: 5727
Width: 155

Uprights
150 x 100 x 4mm
RHS mild steel

Rails
35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

Top Plate: 41.605kg
Middle Plate: 43.96kg
Base Plate: 49.455kg
Uprights (each): 52.0664kg
Uprights (total): 260.332kg
Rails: 40.60201kg

Total of Segment: 435.95401kg

GENERAL NOTES

STEEL
Subframe to be constructed in
All bolts joining vertical elements
shall be M12 bolts in M14 holes.
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements
shall be M12 bolts in 14mm ϕ
holes.

All bolts joining horizontal elements
shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001
for full specification on preparation and
coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting
as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

-DRAFT -
NOT FOR CONSTRUCTION

scoundrel

3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
DOOR SEGMENT DETAIL

CREATIVE DIRECTOR
JAMES DIVE

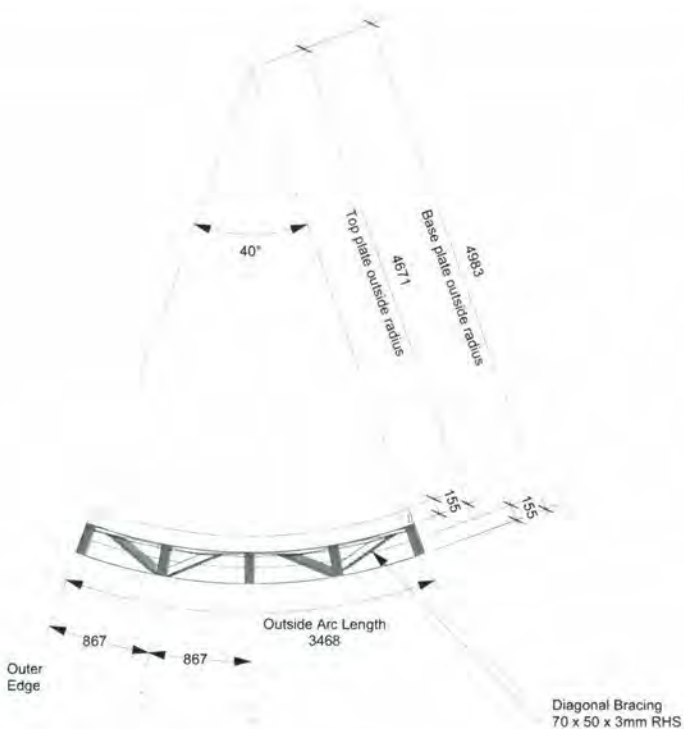
EXECUTIVE PRODUCER
KATE GOODEN

DATE
10/3/18

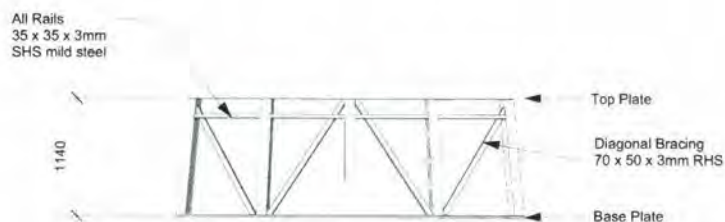
DRAWING No. MPT013
SCALE 1:50 @ A3
DRAWING BY CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734



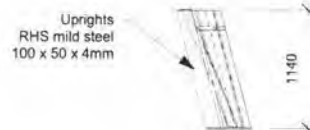
1 Plan
Scale: 1:50



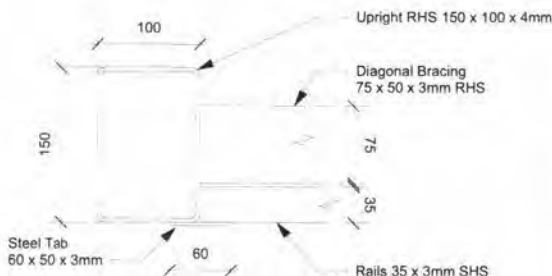
2 Front Elevation
Scale: 1:50



3 Segment Detail
Scale: 1:40



4 Side Elevation
Scale: 1:50



5 Detail Plan View Connection of HS Elements
Scale: 1:5

All Rails
35 x 35 x 3mm
SHS mild steel

Uprights
150 x 100 x 4mm
RHS mild steel

Diagonal Bracing
70 x 50 x 3mm
mild steel RHS

Approved By: Morgan Sheehy

Rev.: A

Signed:

[Signature]

Date: 20.03.18

Morgan Sheehy

MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)

DIRECTOR - EVENT ENGINEERING

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ENGINEERING

SEGMENT SPECS

Top Plate

Thickness: 10mm mild steel
Outer Radius: 4983
Inner Radius: 4828
Width: 155

Base Plate

Thickness: 10mm mild steel
Outer Radius: 5882
Inner Radius: 5727
Width: 155

Uprights

150 x 100 x 4mm
RHS mild steel

Rails

35 x 35 x 3mm
SHS mild steel

WEIGHT CALCULATIONS

Top Plate: 39.25kg
Base Plate: 41.605kg
Uprights (each): 17.168kg
Uprights (total): 85.84kg
Rail: 8.78998kg

Total of Segment: 175.48498kg

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.
All bolts joining vertical elements shall be M12 bolts in M14 holes.

8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux. Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

-DRAFT -

NOT FOR CONSTRUCTION

scoundrel

3 LITTLE QUEEN ST
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+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

DOOR HEADER
SEGMENT DETAIL

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

10/3/18

SCALE

1:50 @ A3

DRAWING No.

MPT013a

DRAWING BY

CARLO CRESCINI

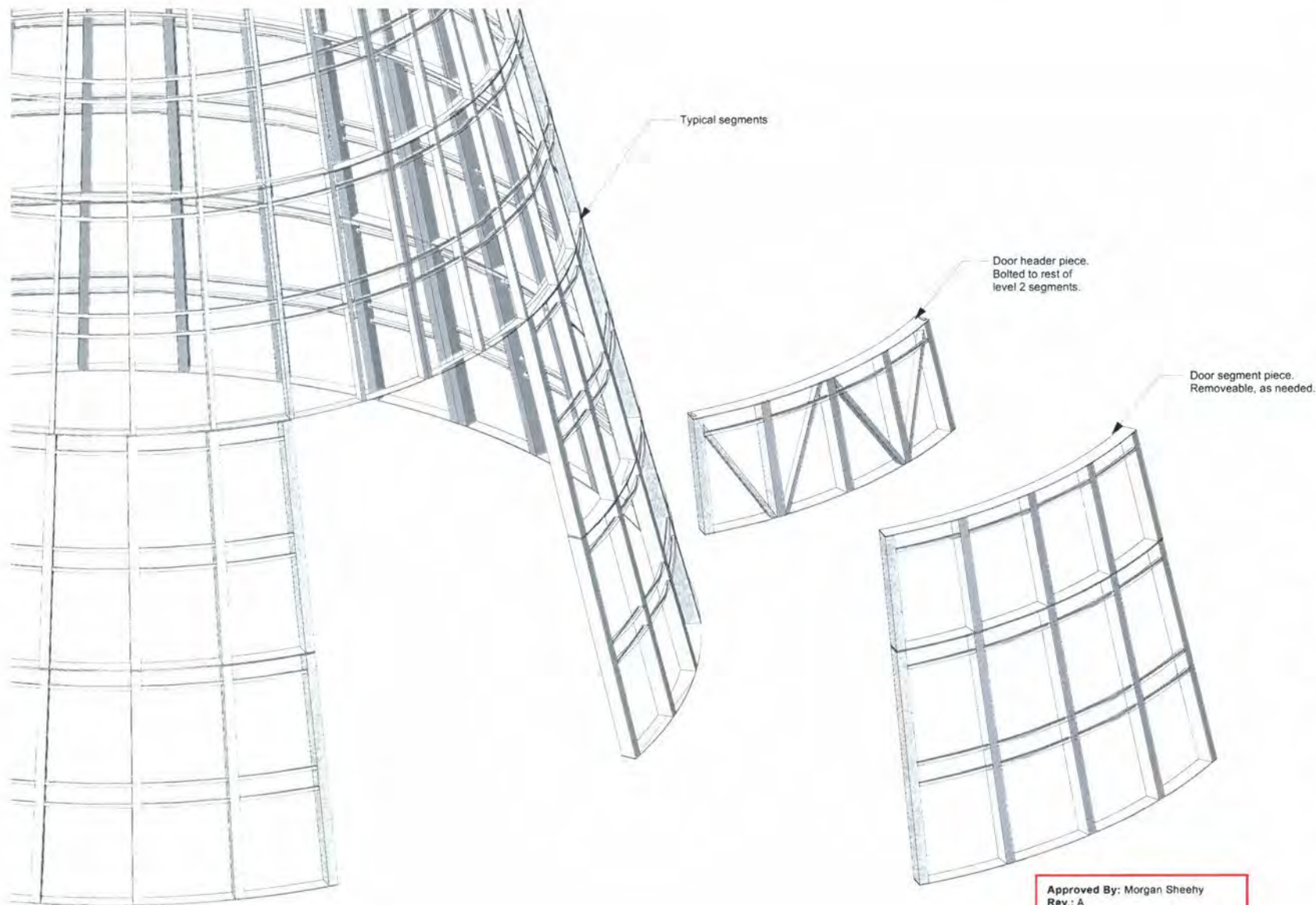
CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING

17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734



GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.
All bolts joining vertical elements shall be M12 bolts in M14 holes.
All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

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2. Coating System
1st Coat Zincode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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+61 2 8287 8800

PROJECT SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT CITY OF SYDNEY

DRAWING TITLE
DOOR HEADER
SEGMENT DETAIL

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE 10/3/18 SCALE 1:50 @ A3

DRAWING No. MPT013b DRAWING BY CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 791

CONSULTING ENGINEER
17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734

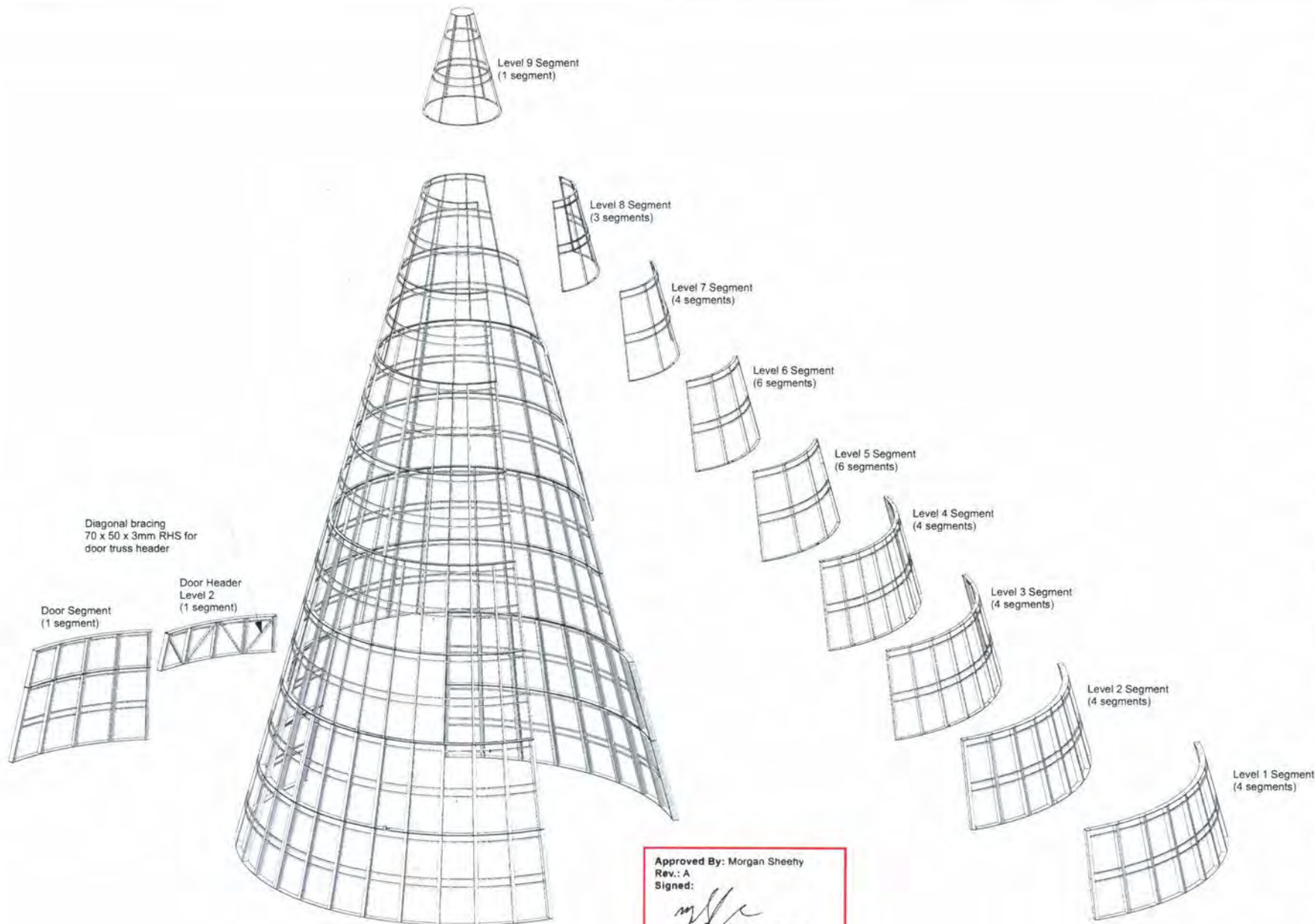
Approved By: Morgan Sheehy
Rev.: A
Signed:

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPENG NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

1

Door Assembly - Exploded Isometric



1

Exploded Isometric
Scale: 1:100

Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

Date: 20.03.18

Morgan Sheehy
MEng (Hons B) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.
All bolts joining vertical elements shall be M12 bolts in M14 holes.
All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

8.8 Grade Galvanised Steel Bolts
All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
EXPLODED ISOMETRIC
TREE FRAME SEGMENT ASSEMBLY

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
10/3/18

SCALE
1:100 @ A3

DRAWING No.
MPT014

DRAWING BY
CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Connell St
Chippendale NSW 2008
ph: 02 9690 1734

1

Locating Pin System

Scale: 1:20

Locator pin
25mm dia galvanised steel pole
Welded on to top plate
which aligns with oversized hole
on base plate of level above.

75

Oversized hole
50mm dia hole
which aligns with locator pin
on top plate of level below.

Guiding tabs
3mm galvanised steel
welded on to top plate.

Locator pin
25mm dia galvanised steel pole
Welded on to top plate
which aligns with oversized hole
on base plate of level above.

75

Guiding tabs
3mm galvanised steel
welded on to top plate.

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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
LOCATOR PIN AND
GUIDING TABS SYSTEMS

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
26/2/18

SCALE
1:20 @ A3

DRAWING No.
MPT022

DRAWING BY
CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 415 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

NOTES

All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements
shall be M12 bolts in M14 holes.

All bolts joining horizontal elements
shall be M16 bolts in M18 holes.

Join of
2 segments

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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
TYPICAL BOLT PATTERN

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
28/2/18 1:10 @ A3

DRAWING No. DRAWING BY
MPT023 CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Bolts to be 55mm from upright on a single side.
Must be bolted on both sides where 2 segments join together.

2 Typical Bolt Pattern
Scale: 1:10

DOOR SECTION
THIS SECTION OF TREE TO
BE REMOVED

CUSTOM LEVELLING
HARDWOOD PACKERS
250mm X 1200mm X VARIABLE
DEPTH
PLACED DIRECTLY
UNDER ALL VERTICAL MEMBERS
OF SECTION ONE
TO A MAXIMUM DEPTH OF 250mm

ONE TONNE CONCRETE BLOCKS
TO BE INSTALLED AROUND THE
INTERNAL PERIMETER OF THE
SUBFRAME.
BLOCKS TO BE CONNECTED TO
SUBFRAME AT TOP OF SECOND
SECTION VIA RATED CHAIN,
TURNBUCKLE,
SHACKLE AND 5 TONNE LIFTING
SLINGS.

TOTAL BALLAST = 24 TONNES

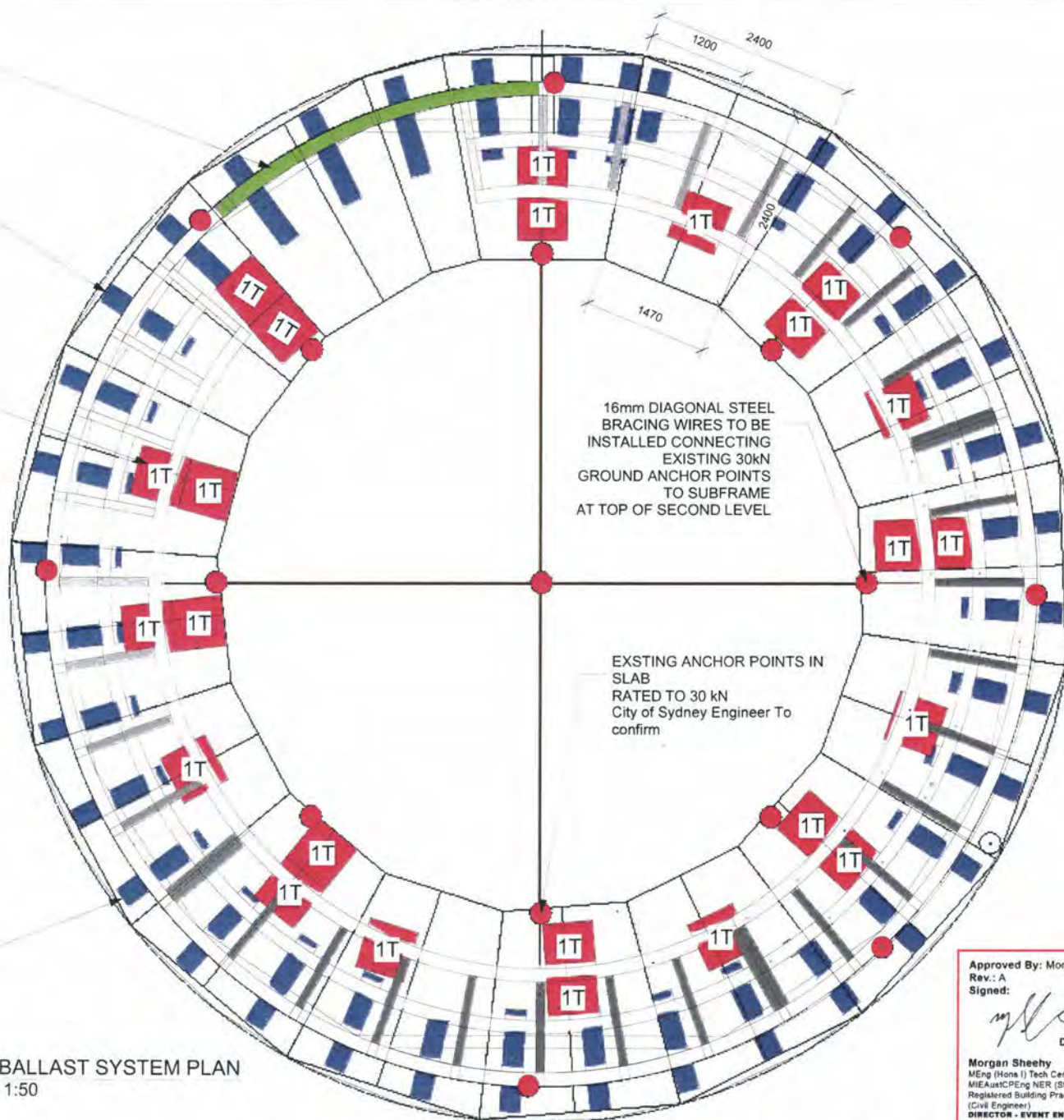
25mm EXTERIOR PLYWOOD
BASE PLATES INSTALLED ONTO
GROUND

LAYER OF 3mm INDUSTRIAL
INSTALLED BETWEEN PLATES
AND
GROUND (EXISTING STONE
PAVERS)

1

MPT BALLAST SYSTEM PLAN

Scale: 1:50



NB: TIMBER BASE PLATES INSTALLED TO REDISTRIBUTE LOADS FROM TREE

GENERAL NOTES

1. BALLAST SYSTEM BASED ON MAXIMUM SITE LOADING OF 5kPa.
2. SITE HAS AN APPROXIMATE LEVEL VARIANCE OF 250mm ACROSS DIAMETER OF THE TREE BASE.
3. MARTIN PLACE WILL REQUIRE 24 TONNES OF BALLAST DISTRIBUTED AS ONE TONNE CONCRETE BLOCKS.

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PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

MPT BALLAST SYSTEM PLAN

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

22.01.18

SCALE

1:50 @ A3

SHEET No.

MPT B001

DRAWING BY

SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

Date: 20.03.18

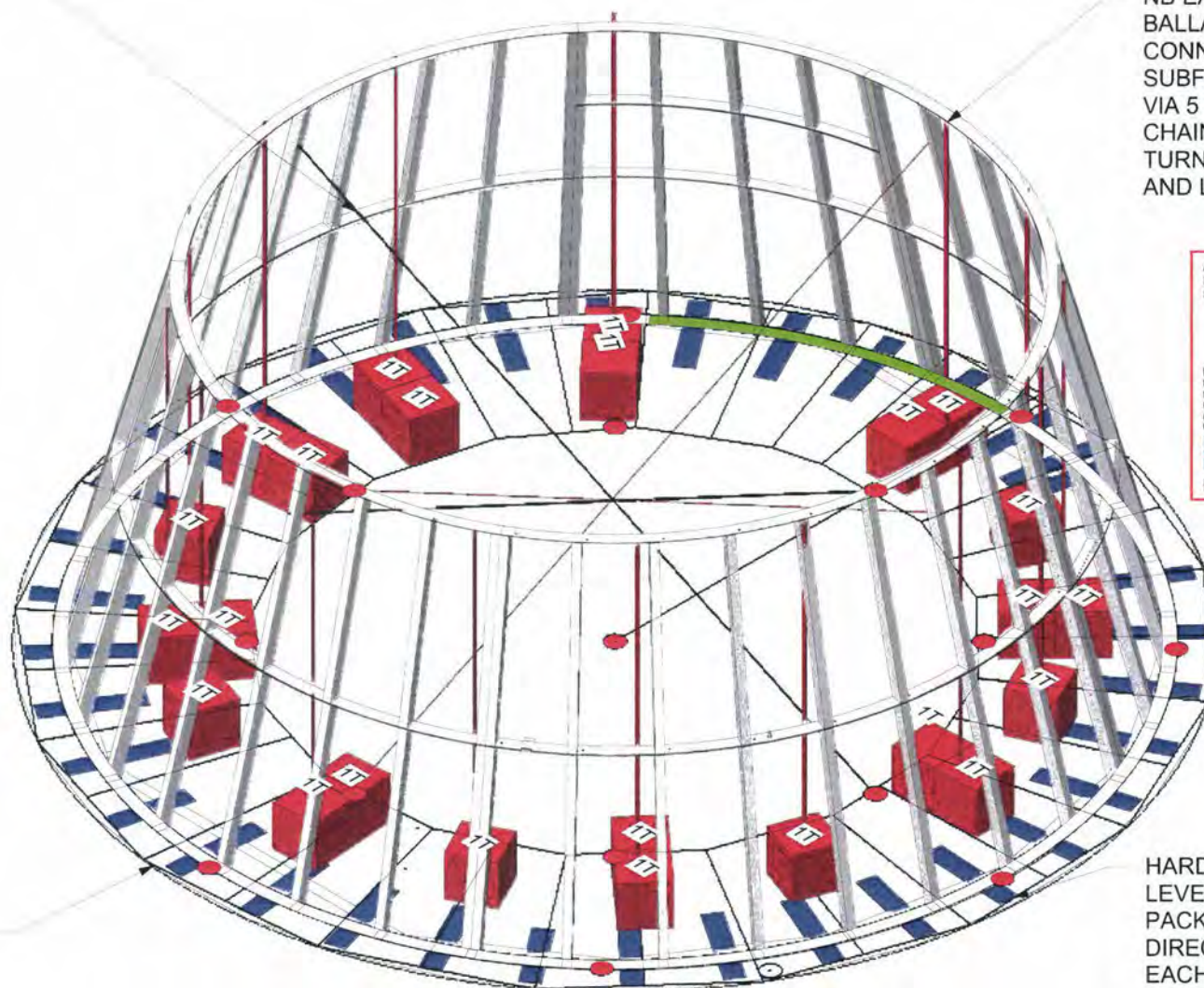
Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41040
(Civil Engineer)

DIRECTOR - EVENT ENGINEERING
EVENT
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16mm DIAGONAL
STEEL
WIRE BRACING
CABLE
RIGGED FROM
EXISTING
ANCHOR POINTS IN
SLAB
TO SUBFRAME AND
TENSIONED WITH
RATED
TURNBUCKLES

25MM EXTERIOR
PLYWOOD
BASE PLATES TO
SPREAD LOAD
INSTALLED ON A
3MM BED OF
RUBBER
MATTING

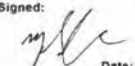
NB EACH CONCRETE
BALLAST BLOCK
CONNECTED TO
SUBFRAME
VIA 5 TONNE RATED
CHAIN,
TURNBUCKLE
AND LIFTING SLINGS



1

MPT BALLAST SYSTEM ISOMETRIC
Scale: 1:50

NB: TIMBER BASE PLATES INSTALLED TO REDISTRIBUTE LOADS FROM TREE

Approved By: Morgan Sheehy
Rev: A
Signed: 
Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAust/CPENG NER (Structural) RPEQ
Registered Building Practitioner V/IC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

GENERAL NOTES

1. BALLAST SYSTEM BASED ON MAXIMUM SITE LOADING OF 5kPa.
2. SITE HAS AN APPROXIMATE LEVEL VARIANCE OF 250mm ACROSS DIAMETER OF THE TREE BASE.
3. MARTIN PLACE WILL REQUIRE 24 TONNES OF BALLAST DISTRIBUTED AS ONE TONNE CONCRETE BLOCKS.

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AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CITY OF SYDNEY

DRAWING TITLE
MPT BALLAST SYSTEM ISO

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
22.01.18 1:50 @ A3

SHEET No. DRAWING BY
MPT B002 SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING 17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734

HARDWOOD
LEVELLING
PACKERS
DIRECTLY BELOW
EACH VERTICAL
MEMBER ON
GROUND
SECTION OF
SUBFRAME IN
VARIABLE DEPTHS
TO A
MAXIMUM OF 250mm

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2. WOMBATS

2. Wombats

Creative Overview



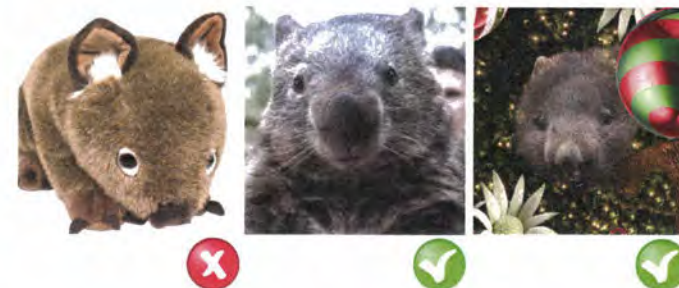
Our wombat is the hero of our tree. He will be what kids come from miles around to try and catch a rare glimpse of.

Therefore, the realisation of our wombat is integral to the overall charm of this entire endeavour. So let's give our wombats a lot of love.

Our wombats should be an artful combination of both reality and character. Our wombats shouldn't read as teddy bears, rather they should feel like an enhanced reality. They should feel happy, fun and thoroughly lovable. Assorted expressions across the range of wombats is preferred.

And although our wombats are on the move, it is important that we give them more movement than just their basic approach and departure from the canopy. This will be achieved by incorporating an ability for the head to 'wobble'. Within the wombat we plan to create a joint that allows the head some movement, but obviously restrained to maintain reality.

Each wombat will be realised using weather and UV resistant materials to allow the wombats to carry on their duties, no matter what the weather.



2. Wombats

Wombat Character Design



Character Design

The artists engaged to create the wombats for the Sydney Christmas infrastructure project must clearly demonstrate a capacity to work collaboratively with Scoundrel Projects and the City of Sydney to achieve a high level of character design in the execution of the work.

A sense of character is essential to a design that will emotionally engage the public at large.

Lifelike / hyper real appearance

The artist must have the technical ability to deliver a lifelike and photo real work in both the sculpting and finishing of the wombats.

Despite this realism the wombat will be 1.4 X oversized. This is to compensate for the large scale of the tree. See dimensions on drawings.

2. Wombats Brief

Materials

1. The wombats skins are to be constructed in a combination of fibreglass and polyurethane foam.
2. Wombat fur is to be appropriate custom made 4 way stretch fabric fur. Samples of fur must be provided for approval.
3. Eyes, nose, teeth and whiskers are to be as anatomically real as possible. Samples must be provided for approval.
4. For the most part only a half torso for the wombats will be required. This is to be mounted to an aluminium armature.
5. Wombats are to be housed in a custom weather proof shed to assist in weather and UV protection.
6. Fire retardants must be considered in the manufacture of the wombat torsos.

Motion and programming

1. The wombats and armature are to be mounted to a custom trolley on rails and their movement to and from their external position is to be controlled by a computer controlled stepper motor with cog and track system. See indicative drawing.
2. The same stepper motor may be engaged to create movement to a sprung, articulated head. The movement is to be of a subtle and realistic nature. The wombat movement is therefore to be achieved through slaved and passive actuation.
3. The motion and timing of the wombat movement is to be established in testing and approved by Scoundrel Projects.
4. The computer programming of the wombats must ensure that only one wombat is visible to the public at any time.
5. One wombat is to be installed at ground level with independent remote control system.

Servicing

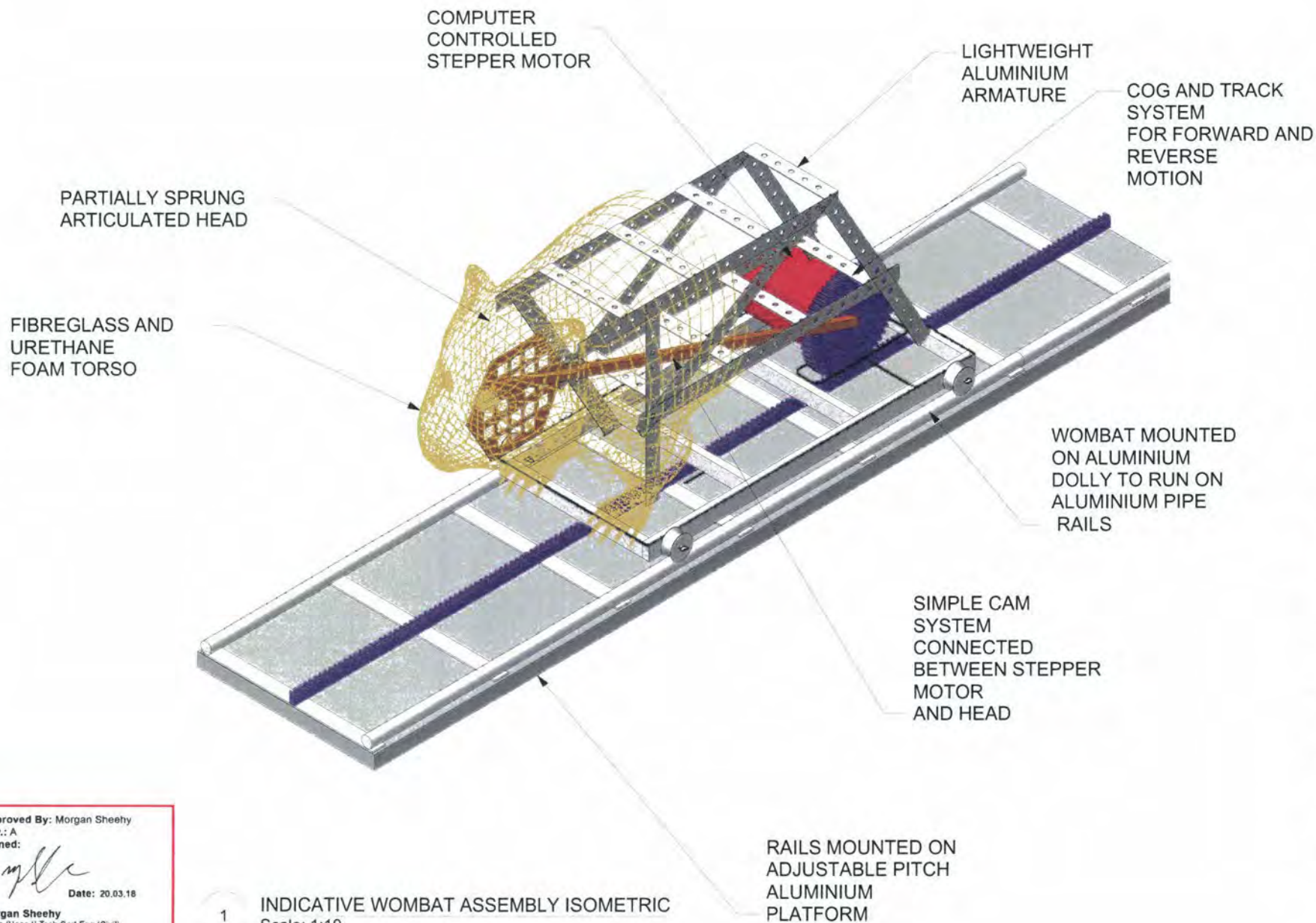
1. Each wombat will be installed on a safe work platform to allow service work to be done in a controlled manner. See drawings MPT018. Each station will possess 2 rigging points for harness work independent of the platform
2. Access to the work station will be realised via rope and winch access system. Details TBA. Wombat service crew must be appropriately qualified and certified to work at heights.

Electrical

1. Power requirements to be developed by wombat manufacturer and must be assessed by an electrical engineer/electrician.

Quantities

1. The martin place tree will require 30 wombats. See wombat layout drawings MPT020.
2. 29 Wombats will be heads. One wombat will be rear end.



1

INDICATIVE WOMBAT ASSEMBLY ISOMETRIC
Scale: 1:10

Approved By: Morgan Sheehy
Rev.: A
Signed:

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

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CHIPPENDALE NSW 2008,
AUSTRALIA
+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

MPT INDICATIVE WOMBAT ASSEMBLY

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

28.01.18

SCALE

1:10 @ A3

DRAWING No.

WOM 001

DRAWING BY

SAM HOBBS

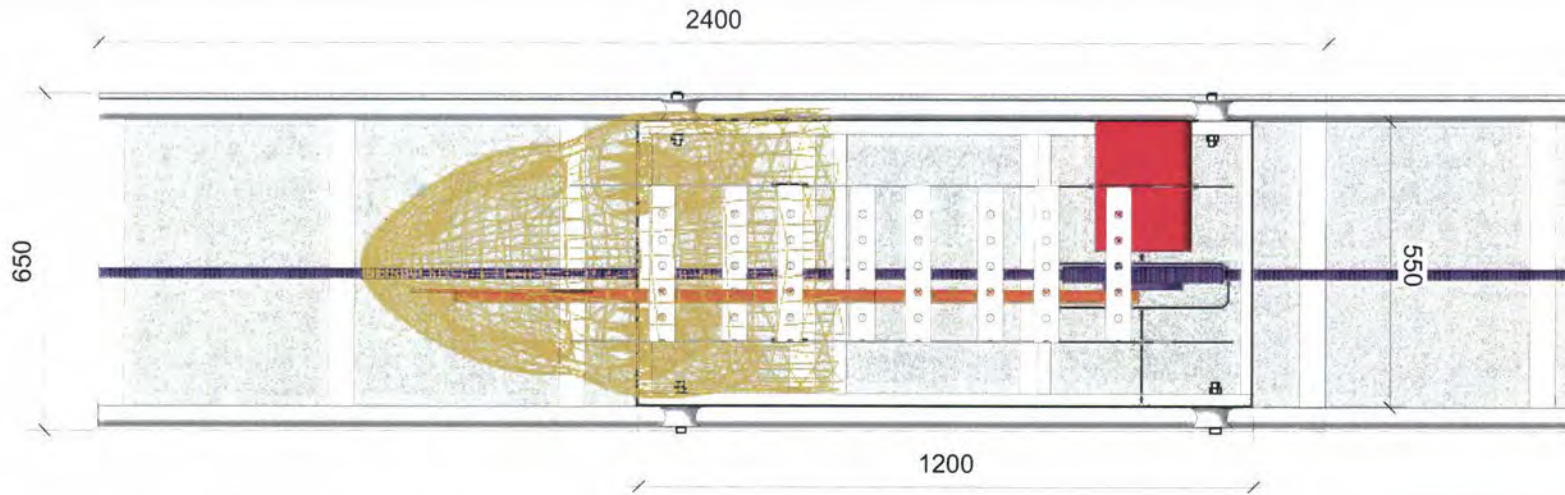
CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING

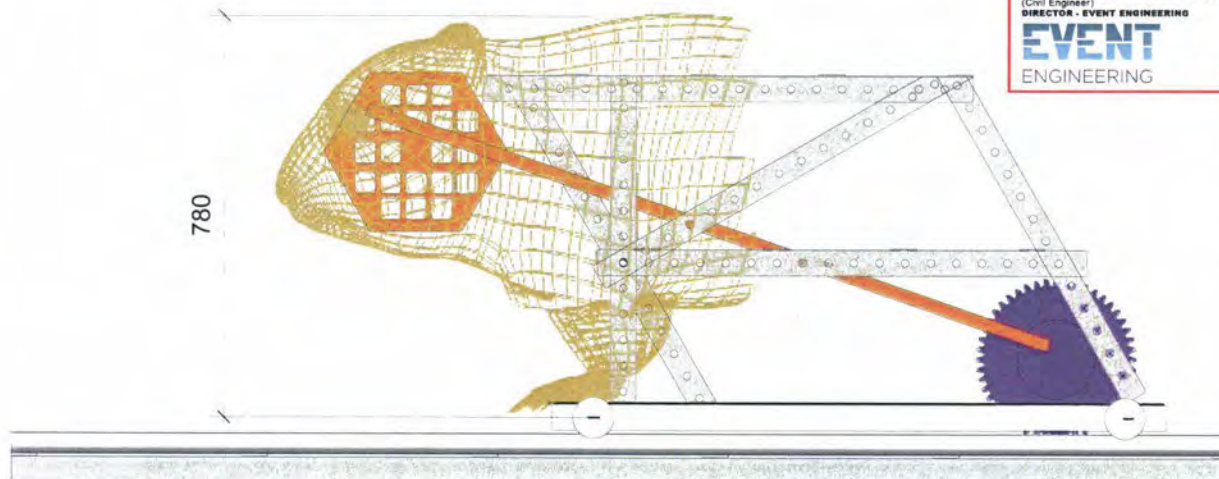
17-19 O'Conner St.
Chippendale NSW 2008
ph. 02 9690 1734



1 INDICATIVE WOMBAT ASSEMBLY PLAN
Scale: 1:10



2 INDICATIVE WOMBAT ASSEMBLY FRONT VIEW
Scale: 1:10



3 INDICATIVE WOMBAT ASSEMBLY SIDE VIEW
Scale: 1:10

NOTES

SEE ISOMETRIC
FOR OTHER
NOTES

Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

Date: 28.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAust/PEng NER (Structural) RPED
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
EVENT
ENGINEERING

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AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
MPT INDICATIVE WOMBAT ASSEMBLY
PLAN AND ELEVATIONS
CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
28.01.18 1:10 @ A3

ING No. DRAWING BY

WOM 002 SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

NOTES

FROND MECHANISMS
ON WOMBAT POSITIONS MUST
OPEN WITH
THE EMERGENCE OF
EACH WOMBAT
AND CLOSE AS THE WOMBATS
RETREAT TO THEIR
HOUSES

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AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
WOMBAT ASSEMBLY WITH
OPENING FROND DOOR MECH

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
28.01.18

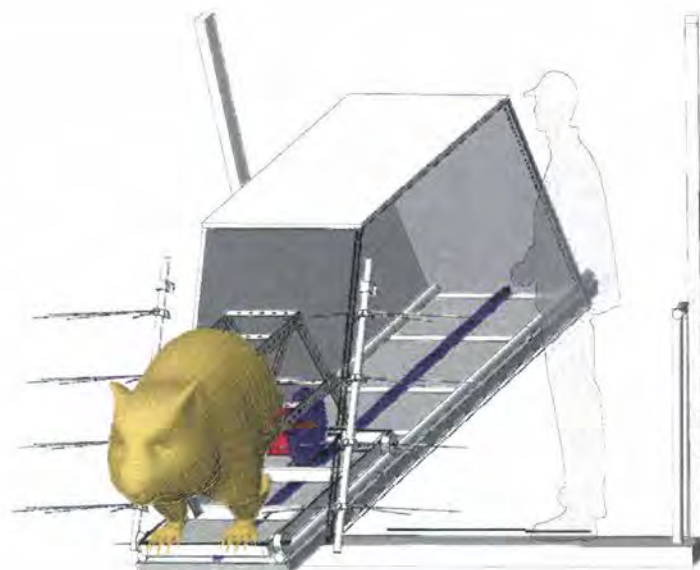
SCALE
1:20 @ A3

DRAWING No.
WOM 004

DRAWING BY
SAM HOBBS

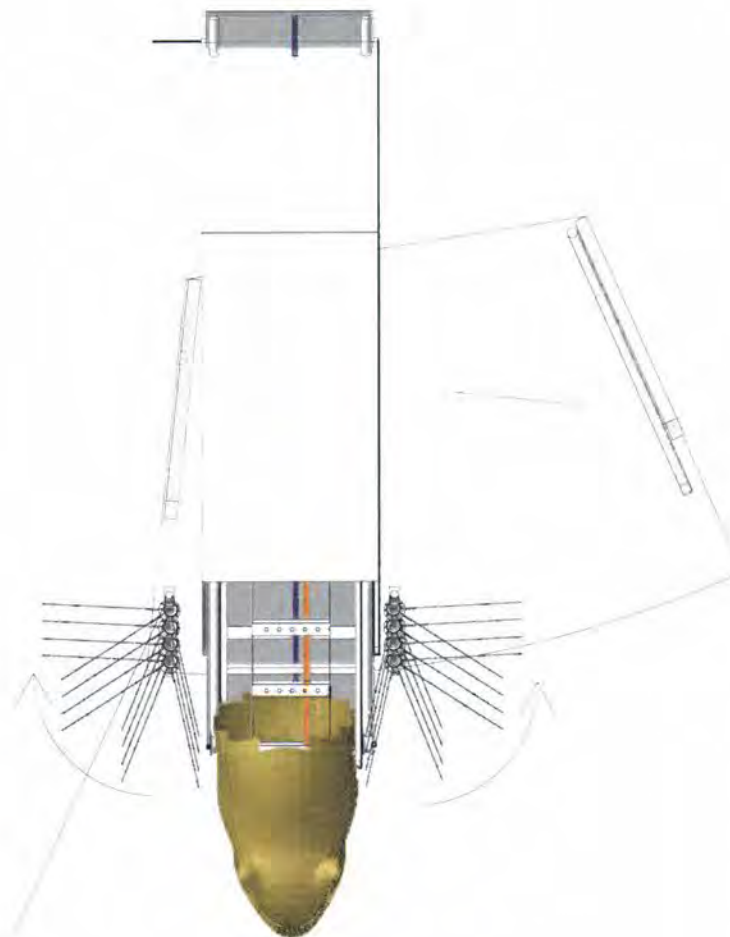
CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



1 WOMBAT OUT POSITION
Scale: 1:20

NB
FROND
MECHANISMS
MADE TO PIVOT TO
OPEN
VIA STEPPER
MOTOR OR SIMILAR
MECHANISM
MUST BE TIMED
WITH EMERGENCE
OF WOMBAT HEAD



2 WOMBAT OUT POSITION PLAN
Scale: 1:20

Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

Date: 20.03.18

Morgan Sheehy
MEng (Hons 1) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

NOTE

Each wombat platform needs to be custom made depending on tree level and position on tree. This drawing is indicative only.

Wombat enclosure unit. Roof hinged for access to wombat.

Work platform next to wombat enclosure. Framework made from Aluminium RHS 75 x 50 x 3mm. 3mm Treadplate floor. See DWG MPT017

Aluminium tube safety rail. 40mm dia x 2mm thick

1500

1

Plan
Scale: 1:25

Approved By: Morgan Sheehy
Rev: A
Signed:

Date: 20.03.18

Morgan Sheehy
MEng (Hons II) Tech Cert Eng (Civil)
MBAustCPENG NEB (Structural) RPEQ
Registered Building Practitioner VIC EC 41069
(Civil Engineer)
EVENT
ENGINEERING

NOTE

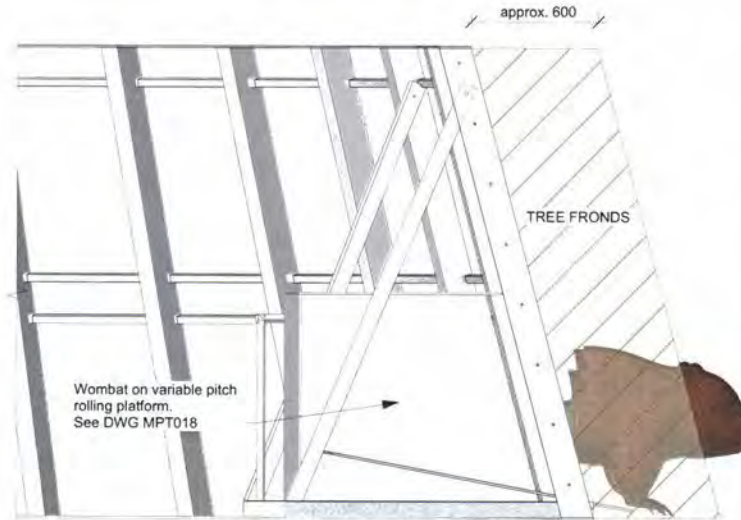
Fall arrest points to AS1891 shall be installed above each platform, independent of wombat platforms.

Wombat on variable pitch rolling platform. See DWG MPT017

Work platform next to wombat unit

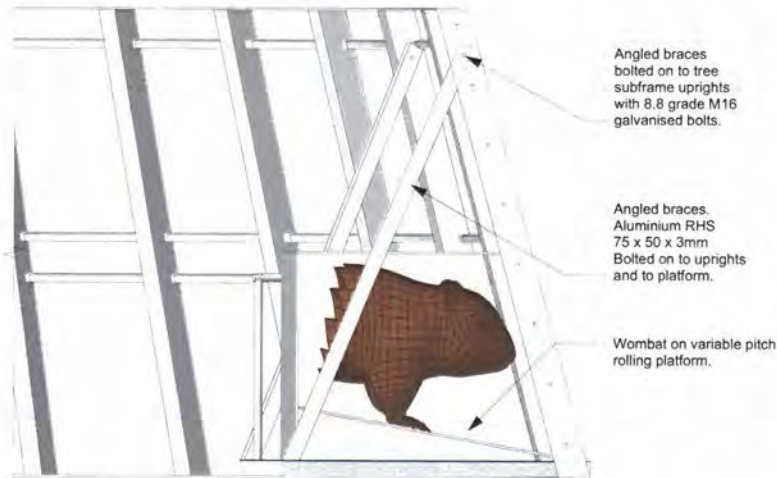
2

Front Elevation
Scale: 1:25



4

Wombat Extruded
Scale: 1:25



3

Side Elevation
Scale: 1:25

GENERAL NOTES

STEEL
Subframe to be constructed in
All bolts joining vertical elements shall be M12 bolts in M14 holes.
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
INDICATIVE WOMBAT PLATFORM

CREATIVE DIRECTOR
JAMES DIVE

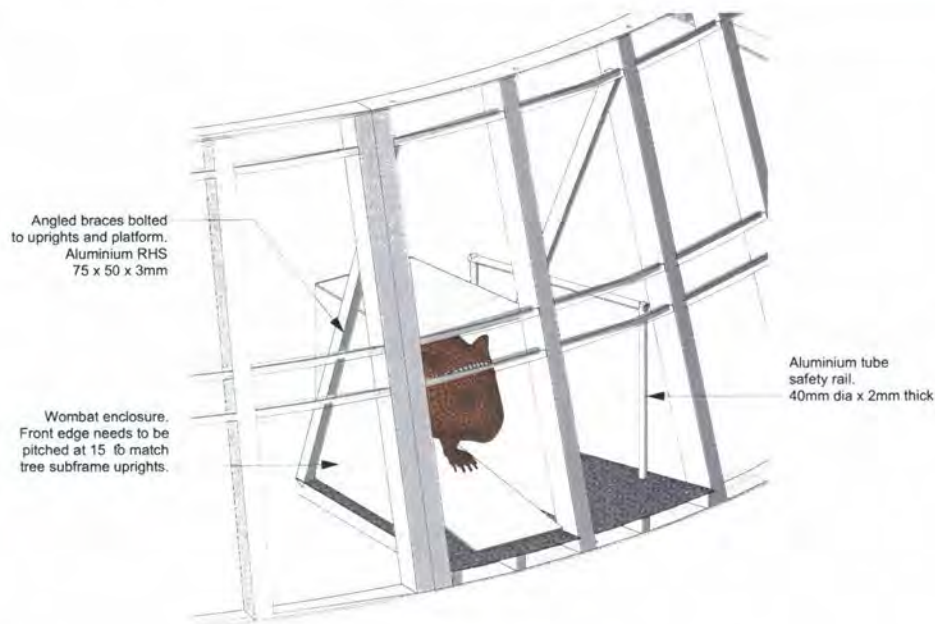
EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
10/3/18 1:25 @ A3

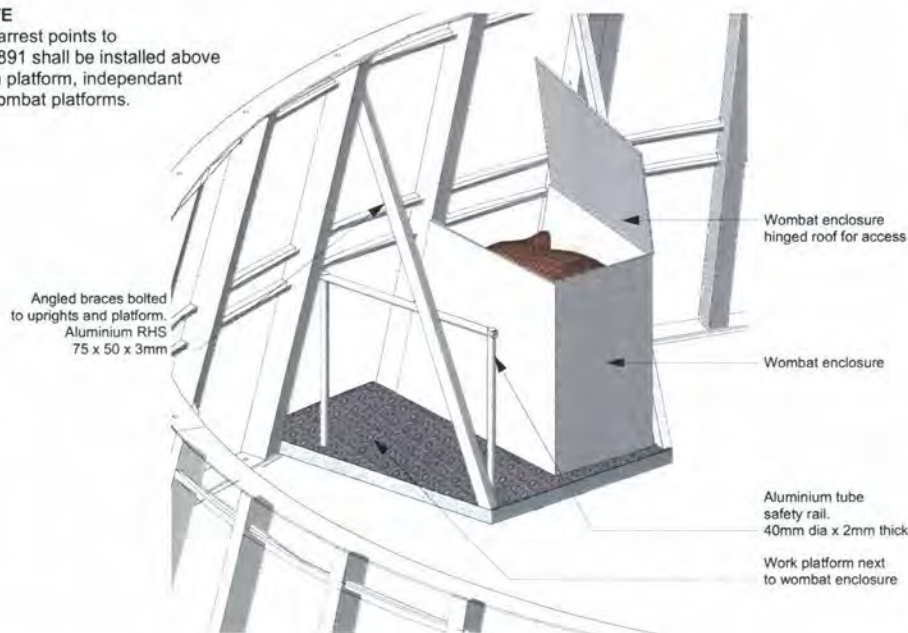
DRAWING No. DRAWING BY
MPT018 CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



NOTE
Fall arrest points to AS1891 shall be installed above each platform, independent of wombat platforms.



1 Isometric Views

NOTE
Each wombat platform needs to be custom made depending on tree level and position on tree.
This drawing is indicative only.

Angled braces.
Bolted to tree subframe uprights and to platform rear corners.
Aluminium RHS
75 x 50 x 3mm

Aluminium Tube Safety Rail
40mm dia x 2mm.
900 high

Custom fitting -
Needs to fit around tree subframe uprights

3mm Treadplate
bolted on to platform frame

Custom fitting -
Radius depends on tree level and position

Custom fitting -
Needs to fit around tree subframe uprights

Platform framework
made from Aluminium RHS
75 x 50 x 3mm.
400 Centres at outer radius

Approved By: Morgan Sheehy
Rev. A
Signed:
Date: 28.03.18
Morgan Sheehy
ME Eng (Structural) to Tech. Cert Eng (CDE)
MSP/Eng/Prod/NSW/Structural/NSW/Reg
Registered Engineering Practitioner VIC/EC 41049
(Civil Engineering)
EVENT
ENGINEERING

2 Exploded Isometric
Scale: 1:20

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.
All bolts joining vertical elements shall be M12 bolts in M14 holes.

8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
INDICATIVE WOMBAT PLATFORM
EXPLODED ISOMETRIC

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
10/3/18

SCALE
1:20 @ A3

DRAWING No.
MPT019

DRAWING BY
CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



1 Wombat Distribution
Scale: 1:50

Number of wombat units: x 30

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
SUGGESTED WOMBAT PLACEMENT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
10/3/18 1:50 @ A3

DRAWING No. DRAWING BY
MPT020 CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

Morgan Sheehy

Date: 20.03.18

Morgan Sheehy
MEng (Hons 1) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS.
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
TREE SECTIONS WITH
WOMBAT PLATFORMS

CREATIVE DIRECTOR
JAMES DIVE

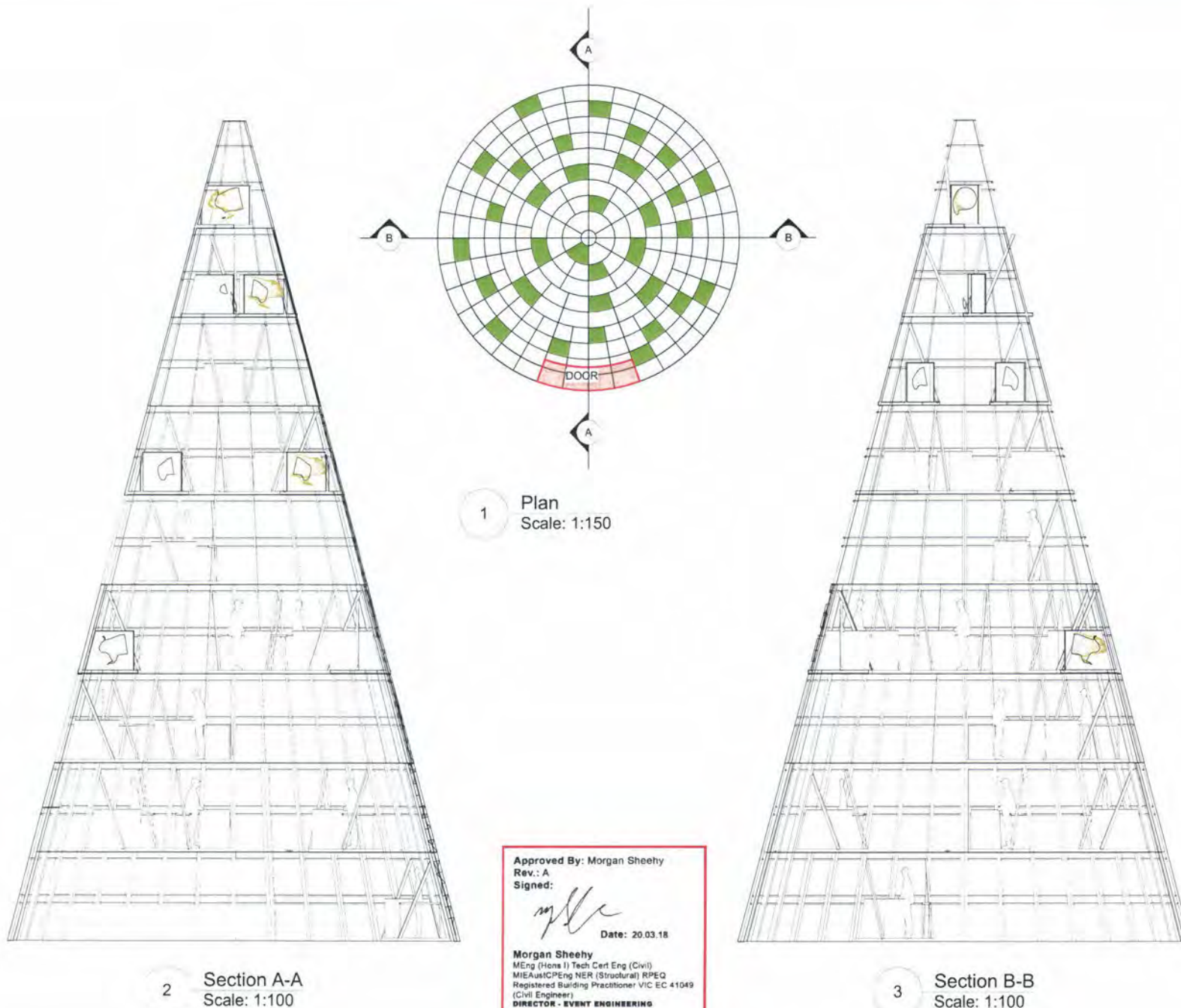
EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
10/3/18 1:50 @ A3

DRAWING No. DRAWING BY
MPT021 CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 961 781

CONSULTING ENGINEER
EVENT
ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



1 Plan
Scale: 1:150

2 Section A-A
Scale: 1:100

3 Section B-B
Scale: 1:100

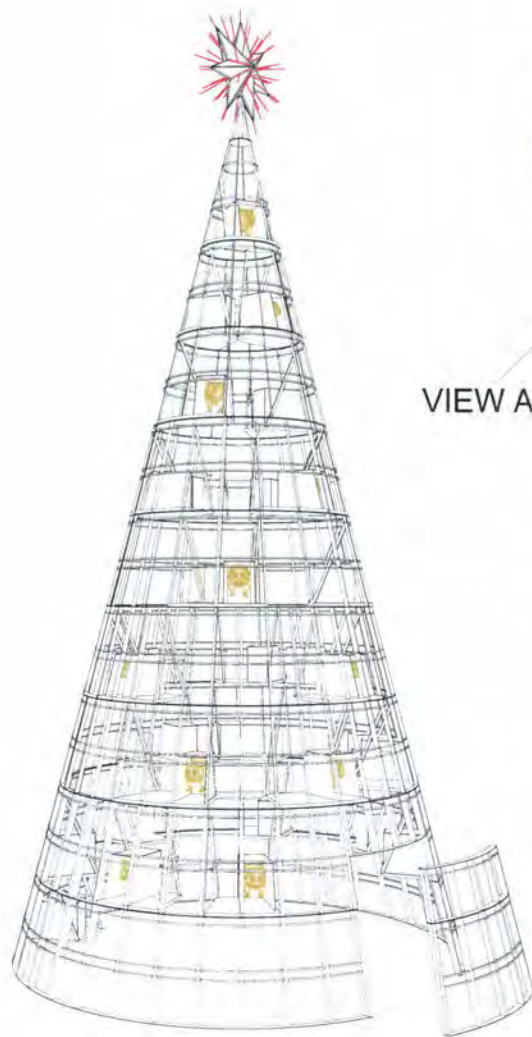
Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

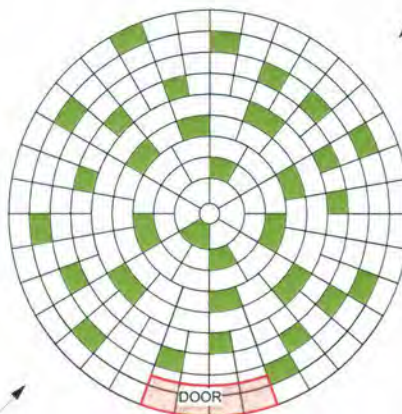
Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAust/CPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING



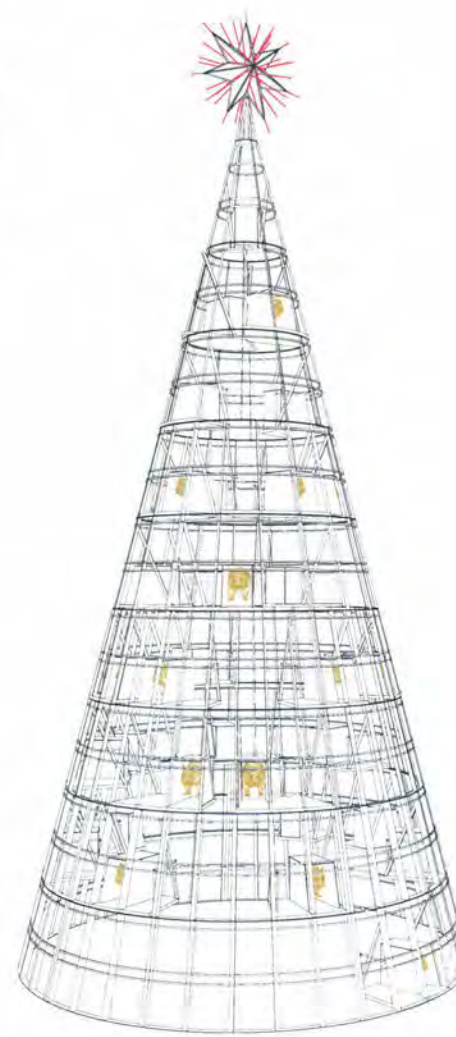
VIEW A



VIEW B

1

Plan
Scale: 1:150



GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.
All bolts joining vertical elements shall be M12 bolts in M14 holes.
All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

8.8 Grade Galvanised Steel Bolts
All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

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AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
TREE ISOMETRICS WITH
WOMBAT PLACEMENT

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
10/3/18

SCALE
1:50 @ A3

DRAWING No.
MPT021a

DRAWING BY
CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

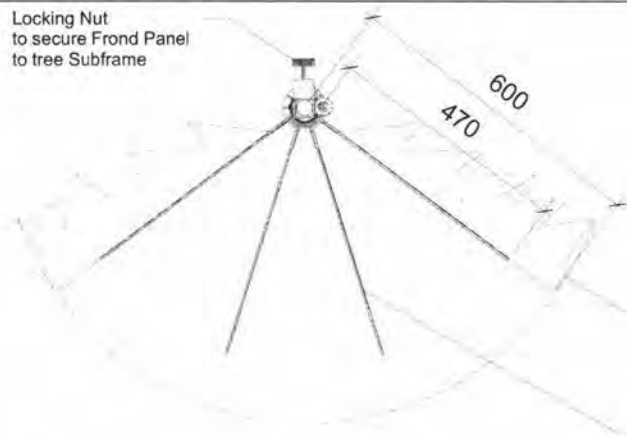
Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
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3. FROND SYSTEM

Locking Nut
to secure Frond Panel
to tree Subframe



1

FROND PANEL FRAME PLAN VIEW

Scale: 1:10

Approved By: Morgan Sheehy
Rev.: A
Signed:

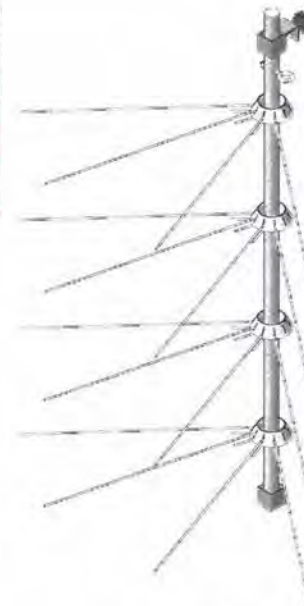
Morgan Sheehy

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
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Approximate Line of Fronds

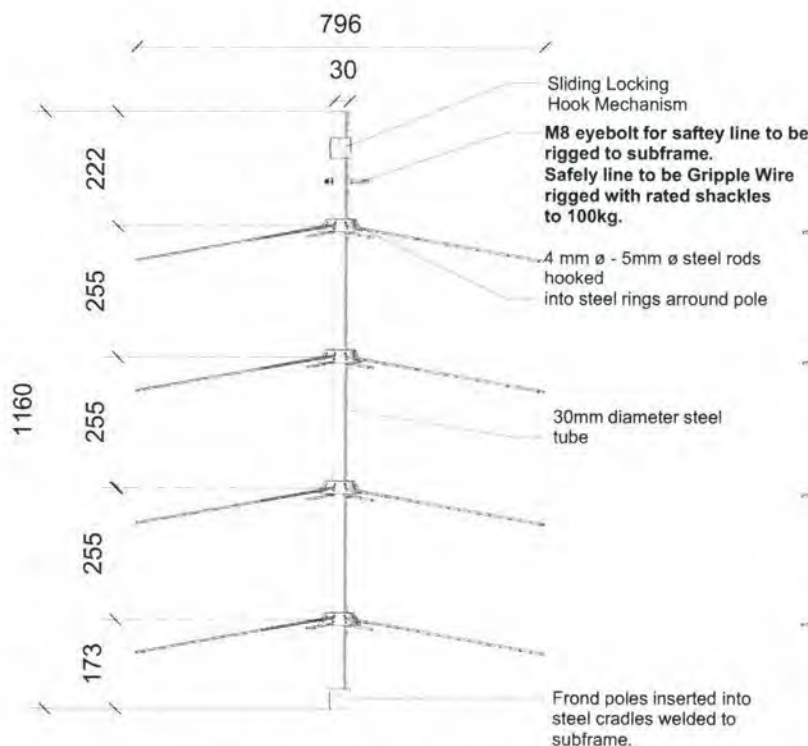
Frond Leaves 2 Ply PVC wired
to
5mm steel rods



4

FROND PANEL VIEW ISOMETRIC

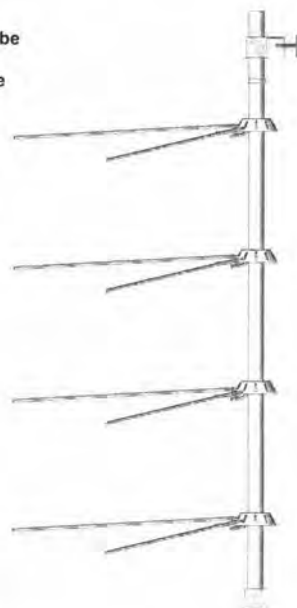
Scale: 1:10



2

FROND PANEL VIEW FRONT VIEW

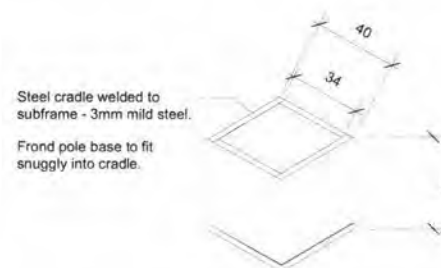
Scale: 1:10



3

FROND PANEL FRAME SIDE VIEW

Scale: 1:10



5

Frond Cradle Detail Isometric

Scale: Half Actual Size

GENERAL NOTES

1. Weight of Dressed Panel 8.7kg
2. Panel rods dressed with 2 ply PVC frond material
3. Fronds treated with UV inhibitor
4. Fronds treated with fire retardant
5. Frond Panels installed at approximate 700mm centres on tree subframe.
6. Panel Estimates for trees as follows:

Martin Place Tree:	540
16M Tree:	290
12M Tree:	133
8M Tree:	82

7. Panel rods vary in length. Rods greater than 600mm length 5mm ø Rods less than 600mm length 4mm ø
8. Panels poles are 32mm ø wall thickness 0.7mm - mild steel.
9. Panel rings ie metal branch holders are 0.7mm thick - mild steel.
10. PVC leaves attached to panel rods with tightly bound 1.05-1.4mm galvanised wire.
11. Panel subframe is hot dipped galvanised to 35microns then powder coated green.

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
TREE FRONT PANEL FRAME DETAILS

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
28/2/18

DRAWING No. TF001
DRAWING BY SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesigns.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph. 02 9990 1734



GENERAL NOTES

1. Weight of Dressed Panel 8.7kg
2. Panel rods dressed with 2 ply PVC frond material
3. Fronds treated with UV inhibitor
4. Fronds treated with fire retardant
5. Frond Panels installed at approximate 700mm centres on tree subframe.
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7. Panel rods vary in length. Rods greater than 600mm length 5mm ϕ Rods less than 600mm length 4mm ϕ
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AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
TREE FRONT PANEL DETAILS SH2

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
28/2/18

DRAWING No.
TF002

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
sam@scoundrelproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph. 02 9690 1734

Lighting Notes:
Each Panels to consist of:
1. Exterior Bud lights "Acorn" x 104
Set on only.
2. Exterior Bud lights RGB
programmable x 104
3. Exterior Bud Lights "Acorn" x
104 to twinkle slowly

Appropriate Exterior Transformers to
be supplied.

24v System

FROND PANELS PHOTOGRAPHIC DETAILS. - STOCK ITEM

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4. LIGHTING

4. Lighting Overview



Lighting Overview

The look we are going for is traditional, and we need our lighting to match. We want to create charm, movement and interest.

We must avoid anything that feels cheap, garish, and off-the-shelf.

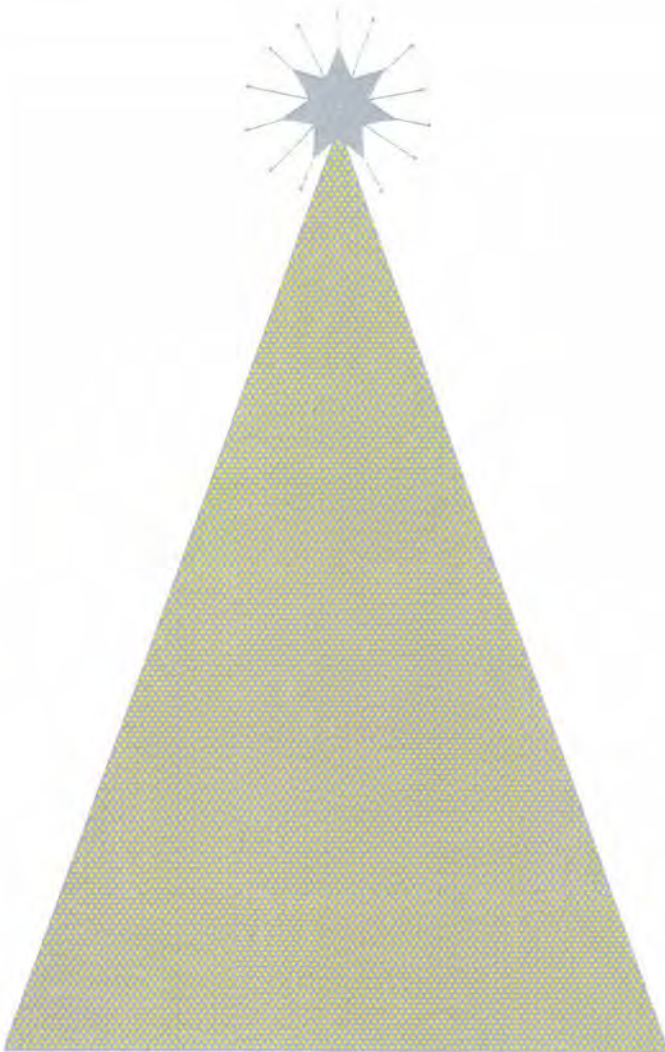
Our lighting has two primary phases, the launch phase and then the exhibition phase.

The following pages outline our proposal for creating layers of lighting that enable our tree to be incredibly intricate, technologically advanced, and undeniably beautiful during both the day and night.

During the launch phase we also propose additional layers that will create the necessary drama and storytelling.

4. Lighting

Base Bud Lighting



Guide only. Not to scale, not indicative of final composition.

Base Layer

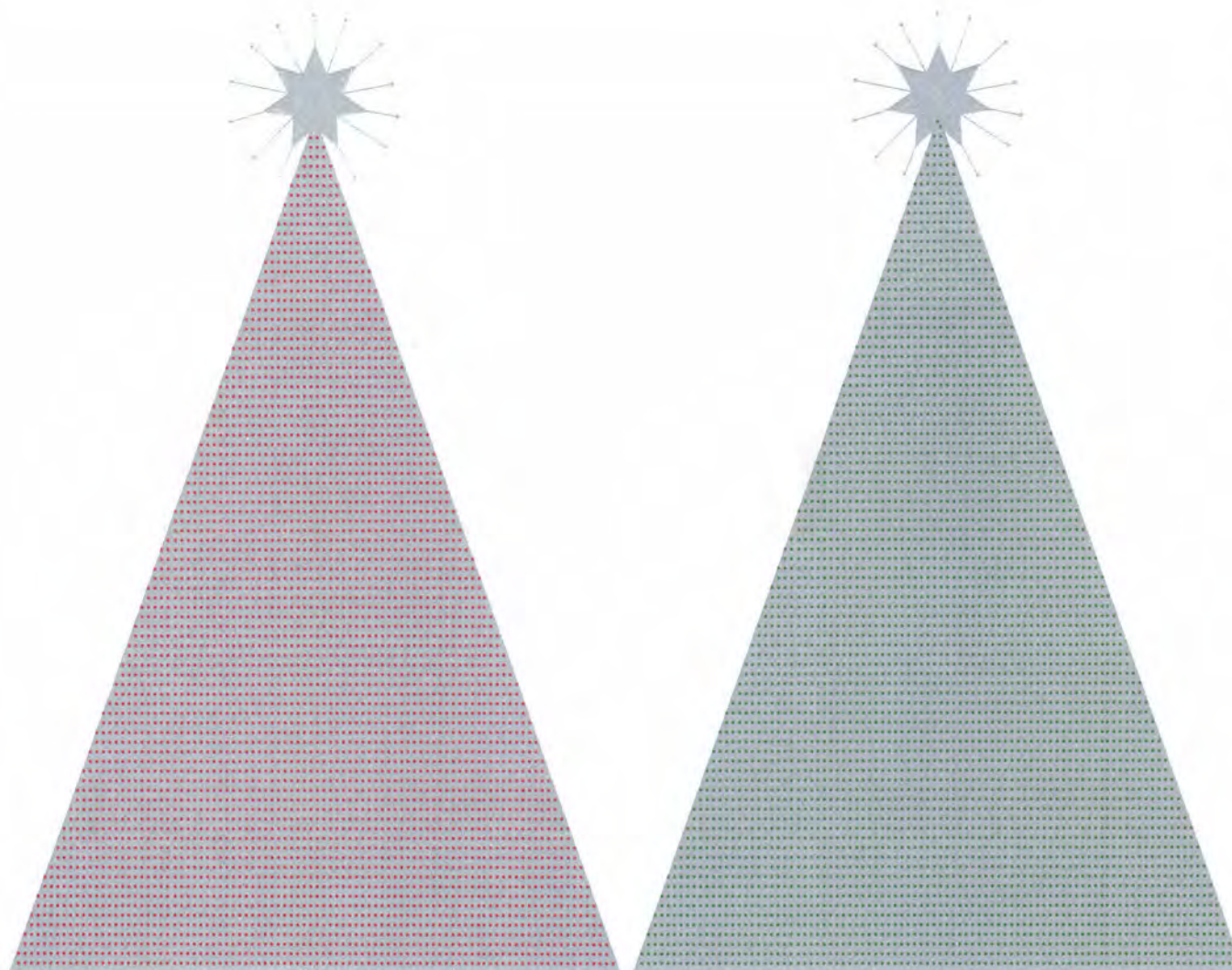
The base layer consists of an impossible amount of intricate, small fairy lights.

The impact of this layer isn't through the size of the fairy lights, rather the number.

This base layer remains a consistent element throughout the activation. They remain illuminated at all times.

4. Lighting

Coloured Bud Lighting



Guide only. Not to scale, not indicative of final composition.

Colour Layer

Woven within our white base layer of fairy lights is an additional two layers of red and green fairy lights.

These layers use the same gauge of fairy lights as our base layer - just coloured.

The amount, however, is less than the base layer. They are complimentary. The number of red and green lights should never be more than 50% of the base layer amount.

This coloured layer is designed to elegantly animate. Each colour will gradually appear and disappear using fade, rather than flash.

Using fade, the colours will then choreograph across the surface of the tree. For example the coloured lights could rise and fall, swirl around the circumference, or appear in preprogrammed sections.

4. Lighting

Flashing Bud Lighting



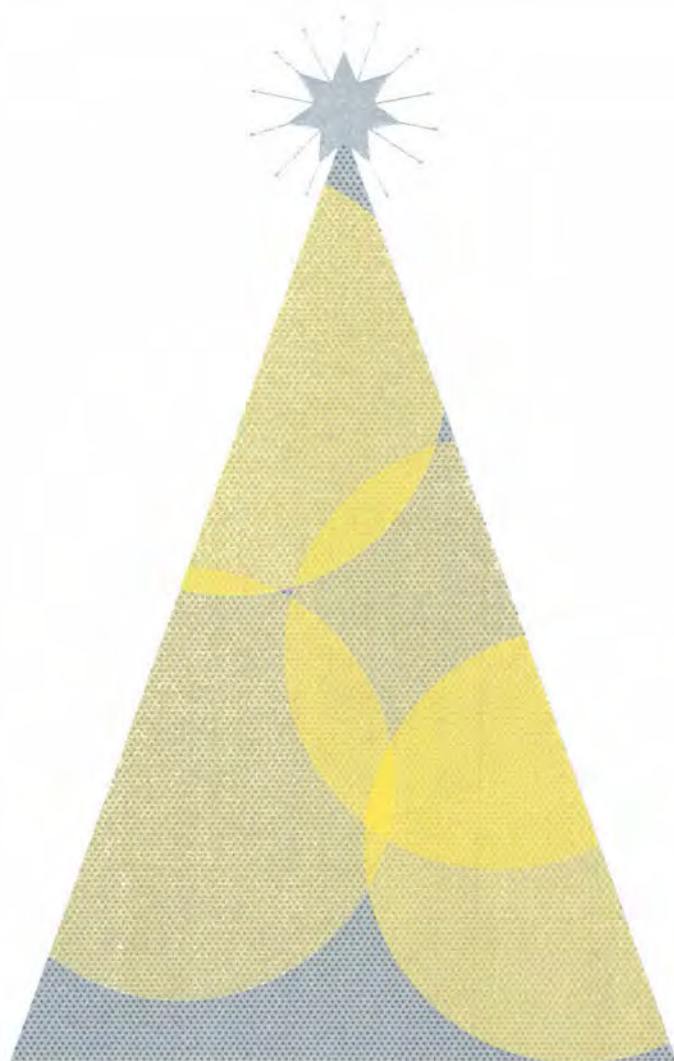
Guide only. Not to scale, not indicative of final composition.

Twinkle Layer

Underneath our three layers of fairy lights will be a 'twinkle' layer consisting of a series of larger white lights that are spaced throughout the canopy. These higher powered lights are designed to provide an element of sparkle and movement across the tree.

4. Lighting

External Lighting



Guide only. Not to scale, not indicative of final composition.

General External Lighting

Throughout the activation static external lighting will enhance and visually heighten the trees surface.

This lighting shouldn't feel heavy handed, but a subtle and artful addition that gives our tree extra reflection, body and vibrancy.

4. Lighting Spot Lighting



Guide only. Not to scale, not indicative of final composition.

Launch Additional Layers

During the launch we want to really bring our tree to life. In addition to our already established seven layers of lighting we propose an additional two that are activated during the launch only.

The first recommendation is that our tree at launch remains in the dark except for one lone spotlight. After a brief moment our wombat will appear.

Once the star of our show has arrived the tree will begin an awesome display of lighting using our choreographed layers to great effect.

To compliment this stage, and give our tree even more movement, we recommend projecting moving beachball baubles across the surface of the tree. (The baubles will likely be unrecognisable as projections, they will provide nice colour and shape.)

4. Lighting

Gobo Lighting (External)



Artist Impression of decorative cluster on George Street.

Gobo Lighting Design

As with our consideration for gobo lighting for George St (seen here) we would like to create a similar effect on the Martin Place Tree and surrounding buildings.

We feel gobo lighting could extend the TOKO bauble designs on and beyond the tree to make the whole site even more festive.

We imagine a set of 4-6 projectors powerful enough to decorate the top of the tree as well as the wonderful facade of the GPO, one of Sydney's great iconic buildings.

These gobo projectors would be installed on surrounding buildings or possibly on the existing smart poles close to the tree.

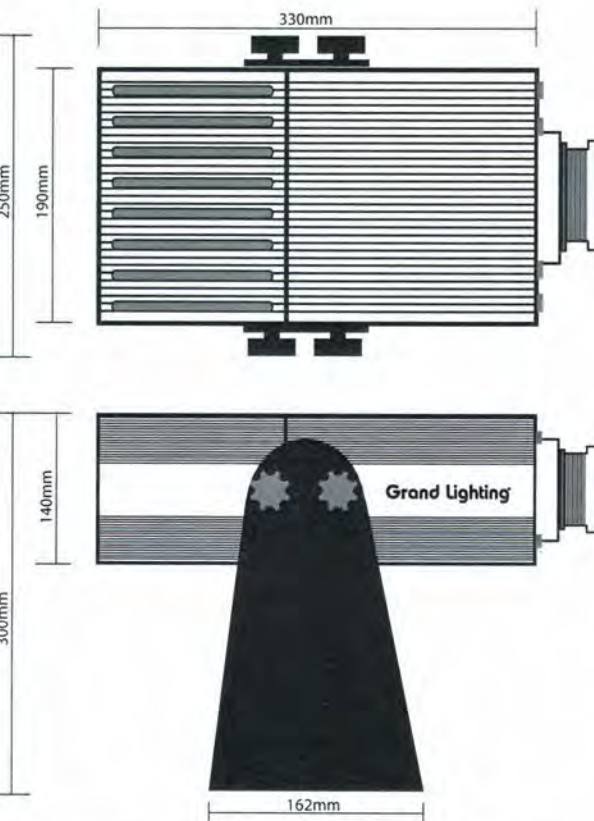
Grand Lighting 150W GenII

- Standard lenses available: Actual output 17.5degrees & 22 degrees
- 67/45mm gobo
- Rotation function available via button switch
- Rear cooling fins & waterproof fan protected by 1.5mm mesh.
- 150W LED Array (USA made)
- Supplied with Constant Current Low Voltage Powersupply ****Use only supplied PSU****

Dimensions

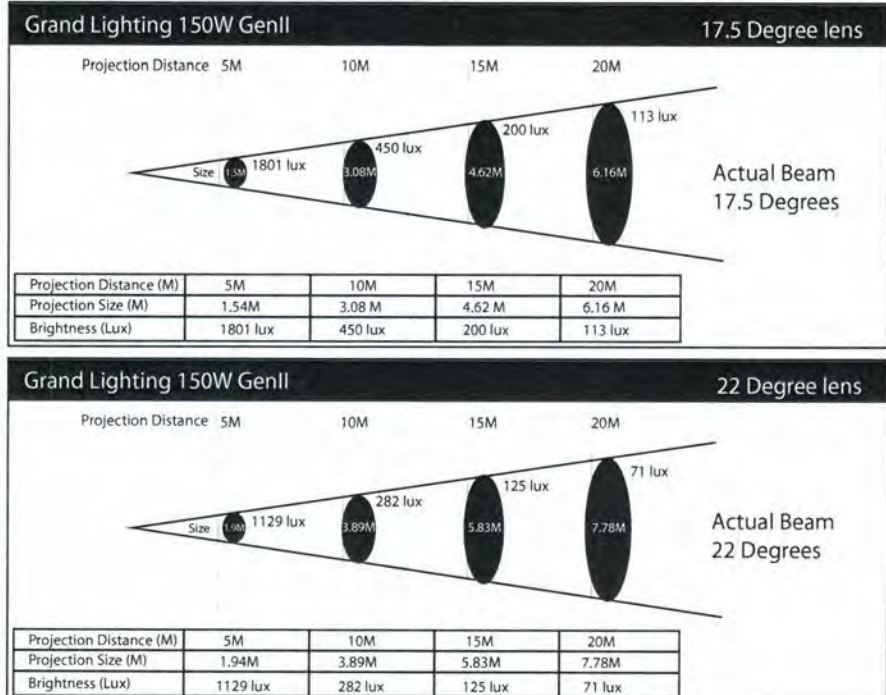
- Length (excluding lens) 330mm
- Length with lens approx 400mm
- Width, with knobs 250mm
- Body height 140mm
- Height with mount 300mm
- Weight ____ kg

Powersupply IP65, size: ____
 Input Voltage: 100-240V AC
 Average Power Consumption: ____



Grand Lighting 100W GenII Data Specifications rev1 -191015

4. Lighting Gobo Lighting Specification



4. Lighting

Lighting Sequencing - Animation



Click for example animation of lighting effects.

<https://wdrvit/51876ae7d>

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5. BAUBLES

5. Baubles

Overview



Artist Impression - Christmas Baubles

The baubles will feature the designs and be inspired by the established TOKO design identity. Each bauble will have a high gloss metallic finish.

Our baubles will come in large, medium and small to suit our different scale trees and applications across Sydney. The largest bauble (that features on our Martin Place tree and street decorations) will measure 850 mm in diameter. Each bauble will be constructed in either fibreglass or acrylic, with the potential to be manufactured locally or offshore.



Bauble samples at 600mm diameter. Samples demonstrate the high level of finish possible.

5. Baubles

Design, Specification and Manufacture



Design 01 - Green Dot on Red



Design 02 - Vertical Stripe WRWG



Design 03 - Beach Ball



Design 04 - Zig Zag



Design 05 - Vertical Stripe RGRW



Design 06 - Horizontal Stripe RG

Bauble Design

There are six unique bauble designs.

Design 01 - Green Dot on Red

Design 02 - Vertical Stripe WRWG

Design 03 - Beach Ball

Design 04 - Zig Zag

Design 05 - Vertical Stripe RGRW

Design 06 - Horizontal Stripe RG

Specification per Tree

24 Metre Tree

Diameter 850mm

Quantity 240 (40 x 6 kind)

16 Metre Tree

Diameter 550mm

Quantity 198 (33 x 6 kind)

12 Metre Tree

Diameter 400mm

Quantity 168 (28 x 6 kind)

8 Metre Tree

Diameter 300mm

Quantity 150 (25 x 6 kind)

DECORATIVE PLASTIC
COLLAR
TO COVER MECH
LAMINATED TO TOP
OF BAUBLE

CUSTOM LONG M12
EYEBOLT TO RUN
THRU BAUBLE
EYE DIAMTER 20MM
EYE BOLT WITH
SHOULDER
8.8 GRADE GALVAISED
STEEL

STEEL WASHER
50MM

NYLON PACKING BLOCK

RUBBER GASKET/ SEAL

BAUBLE SHELL
CONSTRUCTED
IN FIRBREGGLASS AND
POLYESTER RESIN
TO A THICKNESS OF 4.5MM.

GENERAL NOTES

1. BAUBLE SHELL
TO BE CONSTRUCTED
IN FIBREGLASS AND POLYESTER
RESIN TO A THICKNESS OF 4.5MM
2. BASE FINNISHING COAT
IN HI GLOSS
AUTOMOTIVE PAINT
3. DECORATIVE DETAILS TO BE
APPLIED IN HI GLOSS
AUTOMOTIVE PAINT
4. WEIGHT OF EACH UNIT NOT TO
EXCEED 20KG

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AUSTRALIA
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PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

BAUBLE LOCAL BUILD OPTION

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

25.01.18

SCALE

1:10 @ A3

DRAWING No.

BA 001

DRAWING BY

SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

2

MPT BAUBLE SECTION OFFSHORE BUILD OPTION
Scale: 1:5

RUBBER GASKET/ SEAL
STEEL WASHER
50MM

RATED EYE WITH
SHOULDER TO
SCREW ON TO BOLT
THREAD
NYLON THREAD TO
LOCK

DECORATIVE PLASTIC
COLLAR
TO COVER MECH
LAMINATED TO TOP
OF BAUBLE

CUSTOM LONG M12
EYEBOLT TO RUN
THRU BAUBLE
EYE DIAMTER 20MM
EYE BOLT WITH
SHOULDER
8.8 GRADE GALVAISED
STEEL

STEEL WASHER
50MM

NYLON PACKING BLOCK

RUBBER GASKET/ SEAL

BAUBLE SHELL
CONSTRUCTED
IN TWO VAC FORMED
HEMISPHERES
OF 6MM PLEXIGLASS
ACRYLIC

Ø850

33

GENERAL NOTES

1. BAUBLE SHELL
TO BE CONSTRUCTED
IN 6MM PLEXIGLASS
2. BASE FINNISHING COAT
IN HI GLOSS 2 PACK
AUTOMOTIVE PAINT
3. DECORATIVE DETAILS TO BE
APPLIED TO SHELL IN SERIES 9
3M GLOSS ADHESIVE VINYL
4. WEIGHT OF EACH UNIT NOT TO
EXCEED 20KG

DRAFT
NOT FOR CONSTRUCTION

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN
CLIENT
CITY OF SYDNEY

DRAWING TITLE
BAUBLE LOCAL BUILD OPTION

CREATIVE DIRECTOR
JAMES DIVE
EXECUTIVE PRODUCER
KATE GOODEN

DATE
26.01.18
SCALE
1:10 @ A3

DRAWING No.
BA 002
DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

Morgan Sheehy

Date: 20.03.18

Morgan Sheehy
MEng (Hons II) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPED
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

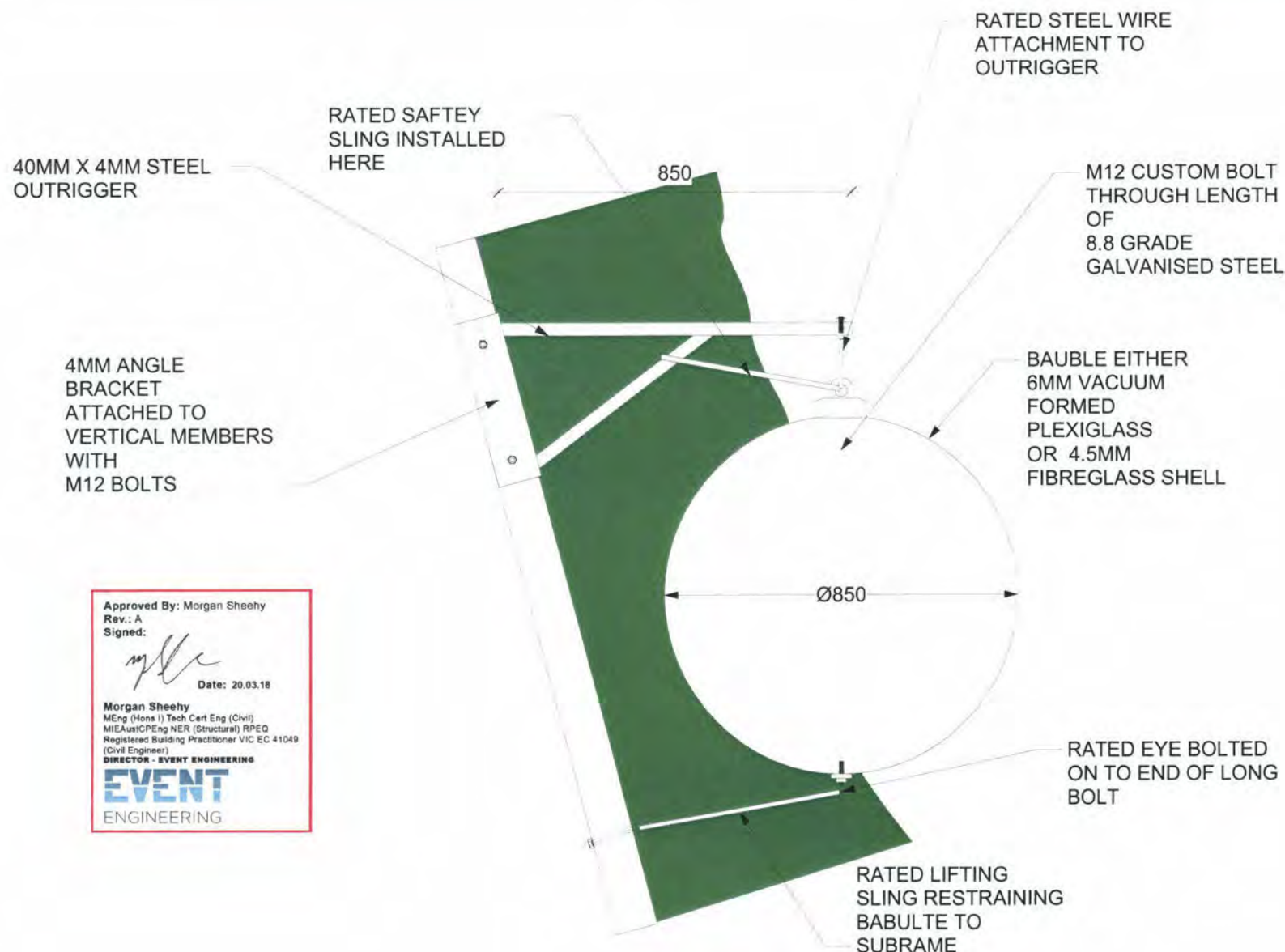
EVENT
ENGINEERING

1

MPT BAUBLE SECTION LOCAL BUILD OPTION
Scale: 1:5

RUBBER GASKET/ SEAL
STEEL WASHER
50MM

RATED EYE WITH
SHOULDER TO
SCREW ON TO BOLT
THREAD
NYLON THREAD TO
LOCK



Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAust/CPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

1

MPT BAUBLE HANGING SYSTEM
Scale: 1:10

NB INDICATIVE SYSTEM ONLY.
FINAL WEIGHTS TO BE CALCULATED AND APPROPRIATE SPECIFICATIONS TO FOLLOW

DRAFT
NOT FOR CONSTRUCTION

scoundrel

3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
BAUBLE HANGING SYSTEM

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
26.01.18

SCALE
1:10 @ A3

DRAWING No.
BA 003

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

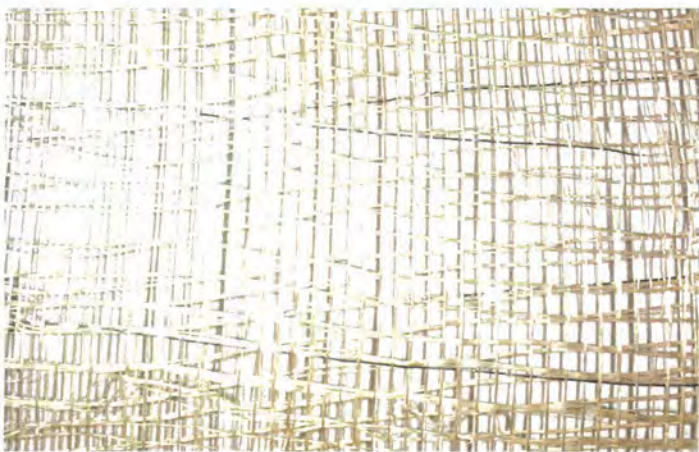
scoundrel

6. RIBBON DECORATIONS

6. Ribbon Decoration Design and Specification



Draping Ribbon References Only



Sinamay Ribbon Detail with woven silver thread.



Sinamay Ribbon

Our ribbon is a support act, helping tie together our various elements. It's not too linear, it naturally works its way around the tree. It disappears into the foliage and then reappears.

The ribbon has a natural transparency. It isn't block colour. It would also have a natural (or added) strength that allows it remain in place in wind and adverse weather. It isn't light and droopy. The Sinamay Ribbon has strings of silver thread woven into it which will provide a beautiful glint to the ribbon.

Sinamay Ribbon

Ribbon to wrap tree in an organic undulating pattern pushing deep into the tree intermittently and re-emerging as it travels to the top.

Quantity and Specification per Tree

24m Tree: Ribbon: Sinamay 600mm width @ approx 2.0m diagonal centres. Approximately 300 linear metres

18m Tree: Ribbon: Sinamay 400mm width @ approx 1.6m diagonal centres. Approximately 200 linear metres

12m Tree: Ribbon: Sinamay 300mm width @ approx 1.2m diagonal centres. Approximately 150 linear metres

8m Tree: Ribbon: Sinamay 600mm width @ approx 0.8m diagonal centres. Approximately 90 linear metres

See Tree Dressing Specification Sheet on page 9 for more information.

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7. FLORAL DECORATIONS

7. Floral Decorations

Design and Specification



Floral 01
Kangaroo Paw (yellow, red, pink, white)



Floral 02
Red Waratah



Floral 03
Bottlebrush



Floral 04
Paper Daisy



Floral 05
Wattle



Floral 06
Wild Gum Blossom



Floral 07
Flannel Flower



Floral 08
Isopogon, drumstick flower

Floral Design

There are eight unique floral spray designs.
 Floral 01 - Kangaroo Paw (yellow, red, pink, white)
 Floral 02 - Red Waratah
 Floral 03 - Bottlebrush
 Floral 04 - Paper Daisy
 Floral 05 - Wattle
 Floral 06 - Wild Gum Blossom
 Floral 07 - Flannel Flower
 Floral 08 - Isopogon, drumstick flower

Specification per Tree

24 Metre Tree

Diameter 300mm
 Quantity 1600 (200 x 8 kind)

16 Metre Tree

Diameter 200mm
 Quantity 1000 (125 x 8 kind)

12 Metre Tree

Diameter 200mm
 Quantity 800 (100 x 8 kind)

8 Metre Tree

Diameter 150mm
 Quantity 800 (100 x 8 kind)

7. Floral Decorations

Manufacture

Materials

Floral sprays to be manufactured from UV protected plastics.



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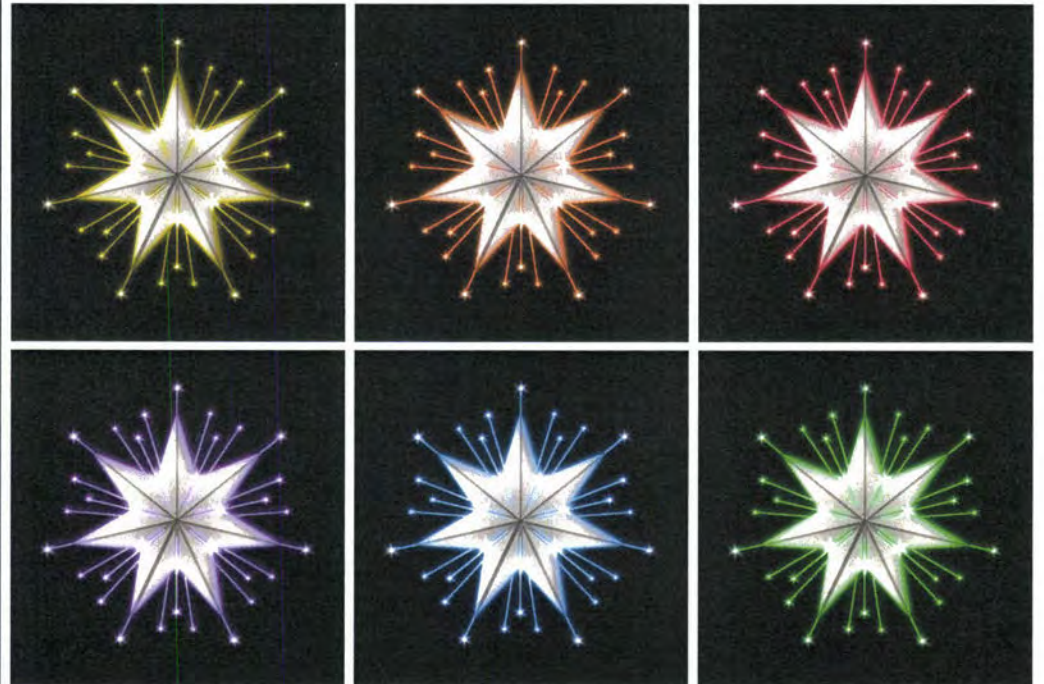
8. THE STAR

8. The Star - 24 and 16 metre Tree Lighting



The star is to be constructed in aluminium and acrylic with illumination being provided in programmable RGB LED lights.

The lighting will be split between the body of the star, star burst rods and the star burst ends.



STAR
CONSTRUCTED
WITH ALUMINIUM
FRAMEWORK
FINISHED WITH
ROUGH PEWTER
STYLE FINISH

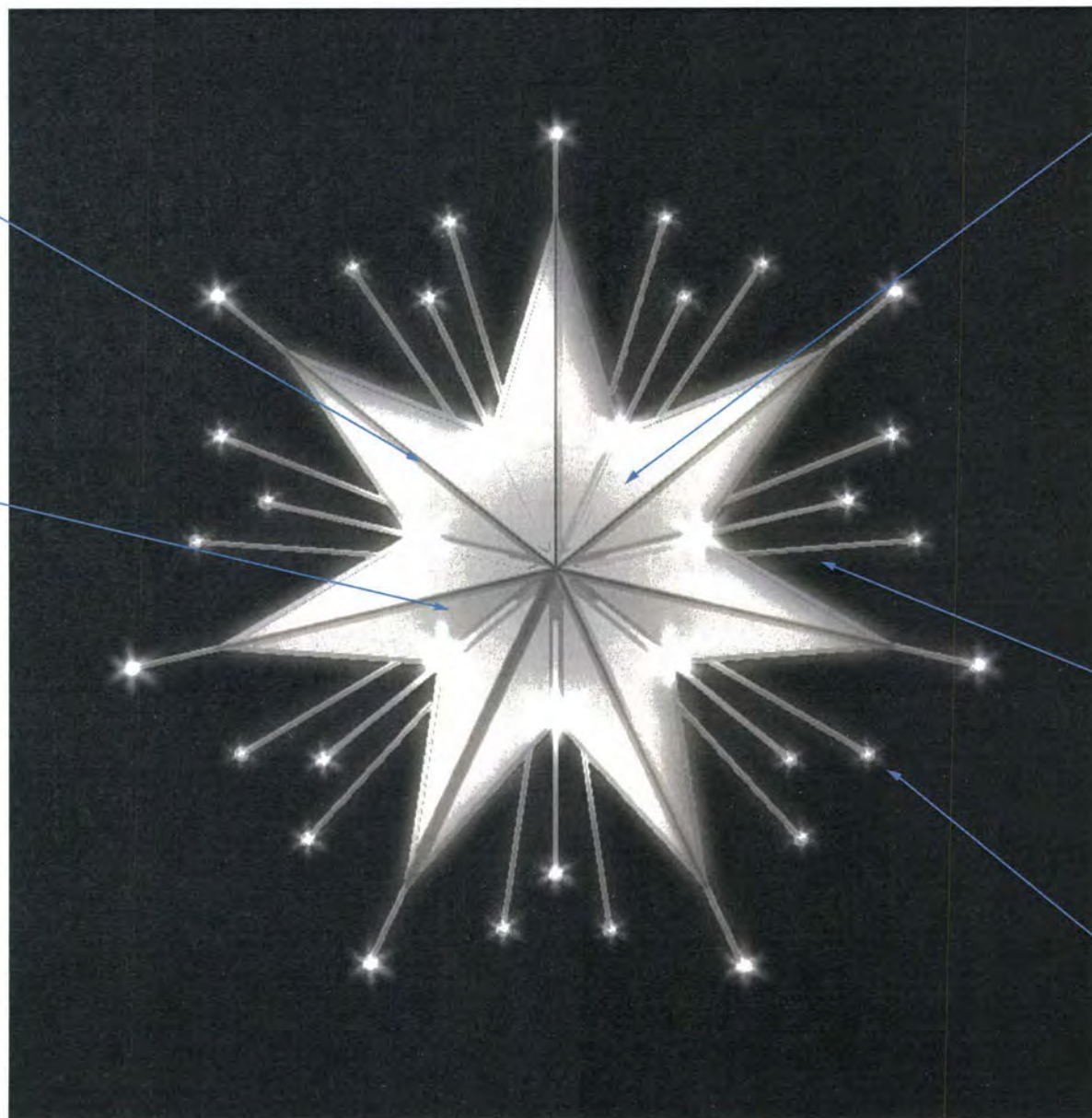
STAR ILLUMINATION
WITH
PROGRAMMABLE
LED LIGHTING

STAR FACETS BUILT
IN 6MM ACRLYIC
AND TREATED WITH
"BLOWN GLASS"
FILM

STAR BURSTS
CONSTRUCTED WITH
ALUMINIUM ROD
SPINE WELDED TO
STAR FRAME
DRESSED
WITH PROGRAMMABLE
LED STRIP
LIGHTING AND
COVERED WITH
CLEAR ACRYLIC
TUBE

NB STARBURST TO
EMERGE FROM THE
STAR AT RANDOM
ANGLES AND
SIZES IN ALL
DIRECTIONS

END OF
STARBURSTS
FINNISHED
WITH CLEAR
ACRYLIC BAUBLES
TO HOUSE
PROGRAMMABLE
LED



"Starburst" Rods to be constructed with 12mm aluminium rods welded to aluminium subframe.

Rods are to be dressed with programmable led strip lighting.

Rods are to be finished in clear 20mm acrylic tubing.

Star panels are to be translucent 6mm plexiglass bolted to aluminium subframe.

"Starburst" ends to be constructed as 50mm ø spheres laminated to ends of "Starburst" acrylic tubes.

Each end to have programmable led lights.



1

MARTIN PLACE TREE STAR
Scale: 1:20

Approved By: Morgan Sheehy
Rev.: A
Signed:

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIE Aust CP Eng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

GENERAL NOTES

1. Star subframe and supports to be constructed in aluminium.
2. Star Panels are to be 6mm Plexiglas eg. Satinice Ice Blue 5h03 DC. Final spec TBC.
3. All fastenings are to be 8.8 grade stainless steel.

soundrel

3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

INFRASTRUCTURE DESIGN

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

SCALE

26.01.18

1:20 @ A3

DRAWING No.

DRAWING BY

ST 001

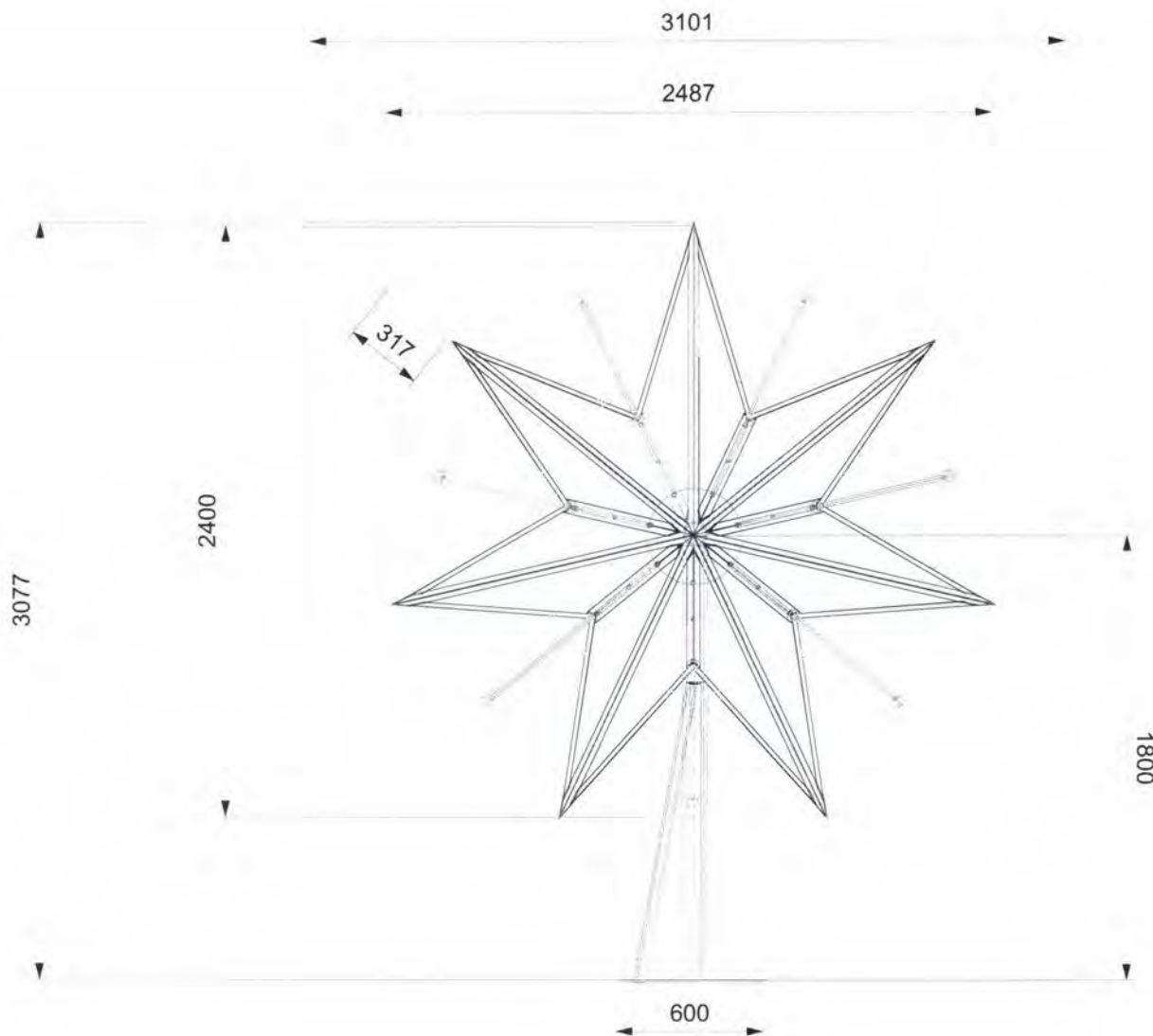
SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



1 MARTIN PLACE TREE FRONT ELEVATION
Scale: 1:20

GENERAL NOTES

1. STAR FRAME SUBFRAME AND SUPPORTS TO BE CONSTRUCTED IN ALUMINIUM
2. STAR PANELS TO BE CONSTRUCTED IN 6MM PLEXIGLASS
3. ALL FASTENINGS TO BE 8.8 GRADE STEEL

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CHIPPENDALE NSW 2008
AUSTRALIA
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PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
MPT STAR FRONT ELEVATION

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
28.02.18

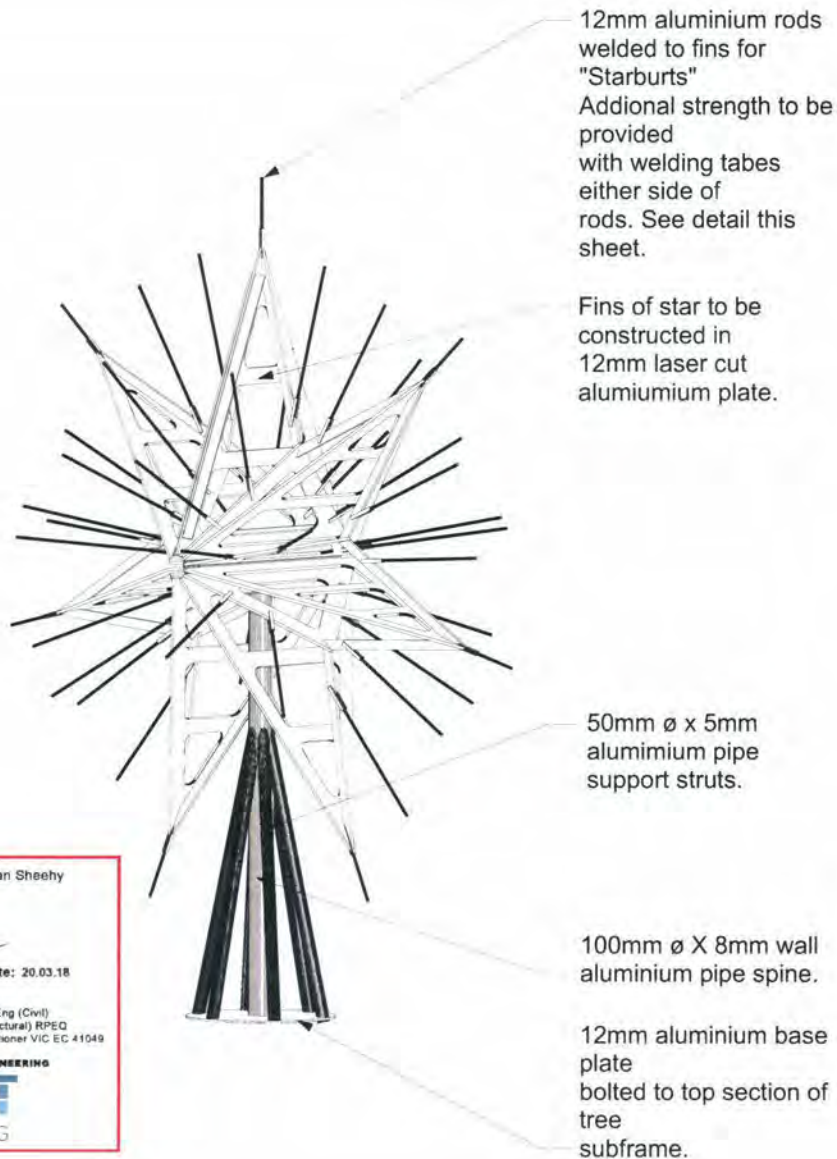
SCALE
1:20 @ A3

DRAWING No.
ST 004

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



1

MARTIN PLACE TREE STAR SUBFRAME ISOMETRIC
Scale: 1:20



2

STARBURST SUBFRAME DETAIL
Scale: 1:5

GENERAL NOTES

1. Star subframe and supports to be constructed in aluminium.
2. Star Panels are to be 6mm Plexiglas eg. Satinice Ice Blue 5h03 DC. Final spec TBC.
3. All fastenings are to be 8.8 grade stainless steel.

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT CITY OF SYDNEY

DRAWING TITLE
MPT STAR SUBFRAME

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

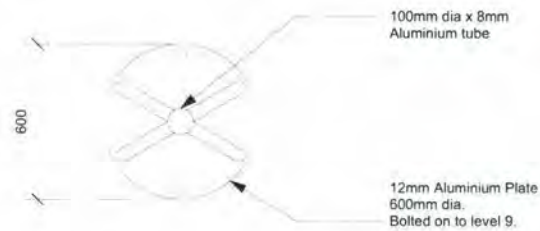
DATE SCALE
26.2.2018 1:100 @ A3

DRAWING No. DRAWING BY
ST 002 SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbs@productiondesign.com
+61 419 961 781

CONSULTING ENGINEER
EVENT ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed: 
Date: 20.03.18
Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

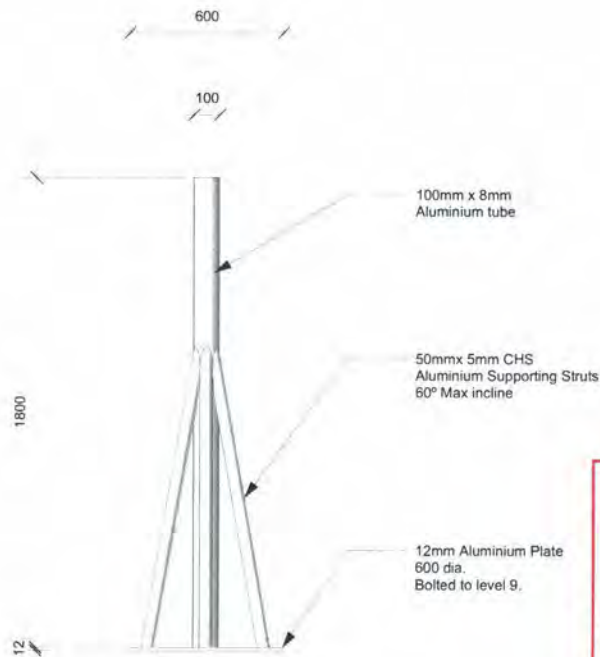


1 Plan Scale: 1:20

12mm Aluminium plate. 600mm dia. Bolted to level 9.



4 Isometric Scale: 1:20



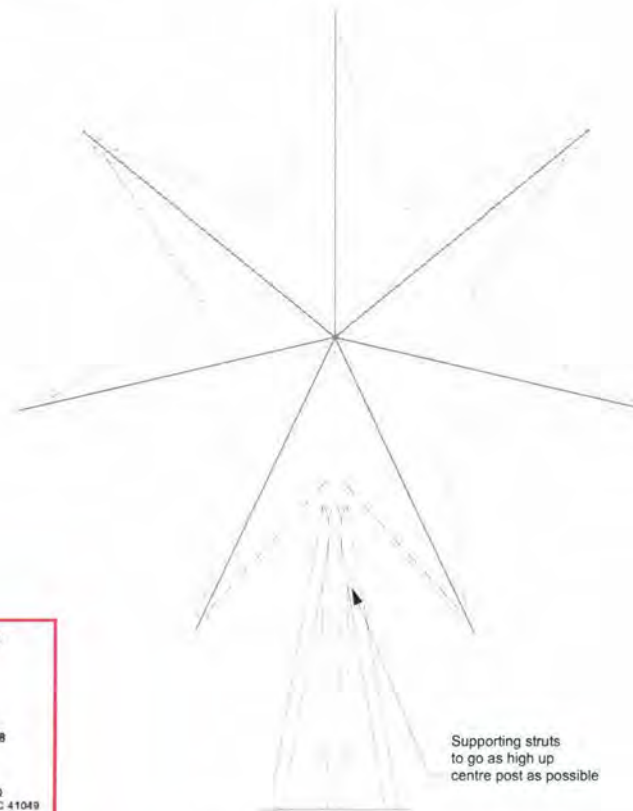
2 Front Elevation Scale: 1:20

Approved By: Morgan Sheehy
Rev.: A
Signed:

Morgan Sheehy

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT ENGINEERING



3 Front Elevation with star Scale: 1:20

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.
All bolts joining vertical elements shall be M12 bolts in M14 holes.
All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix P001 for full specification on preparation and coating system ex Dulux.
Specification no. NSW-180059 /A

1. All steel to be prepared for painting as per Dulux specification.

2. Coating System
1st Coat Zincode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

-DRAFT -
NOT FOR CONSTRUCTION

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
STAR PLATE

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
10/3/18 1:20 @ A3

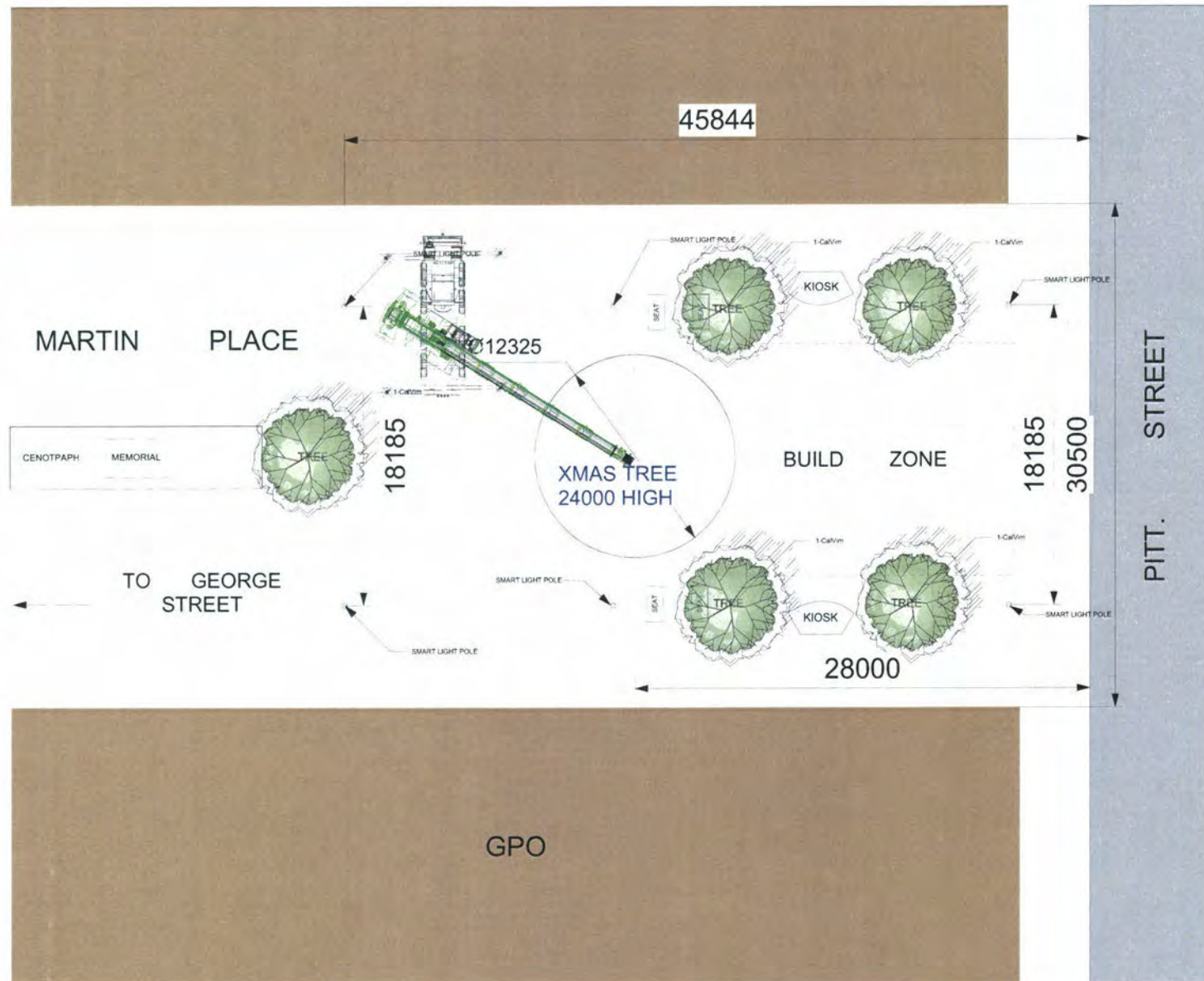
DRAWING No. DRAWING BY
MPT015 CARLO CRESCINI

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

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9. INSTALLATION METHODOLOGY



9. Installation Methodology

Site plan with crane position and build zone details.

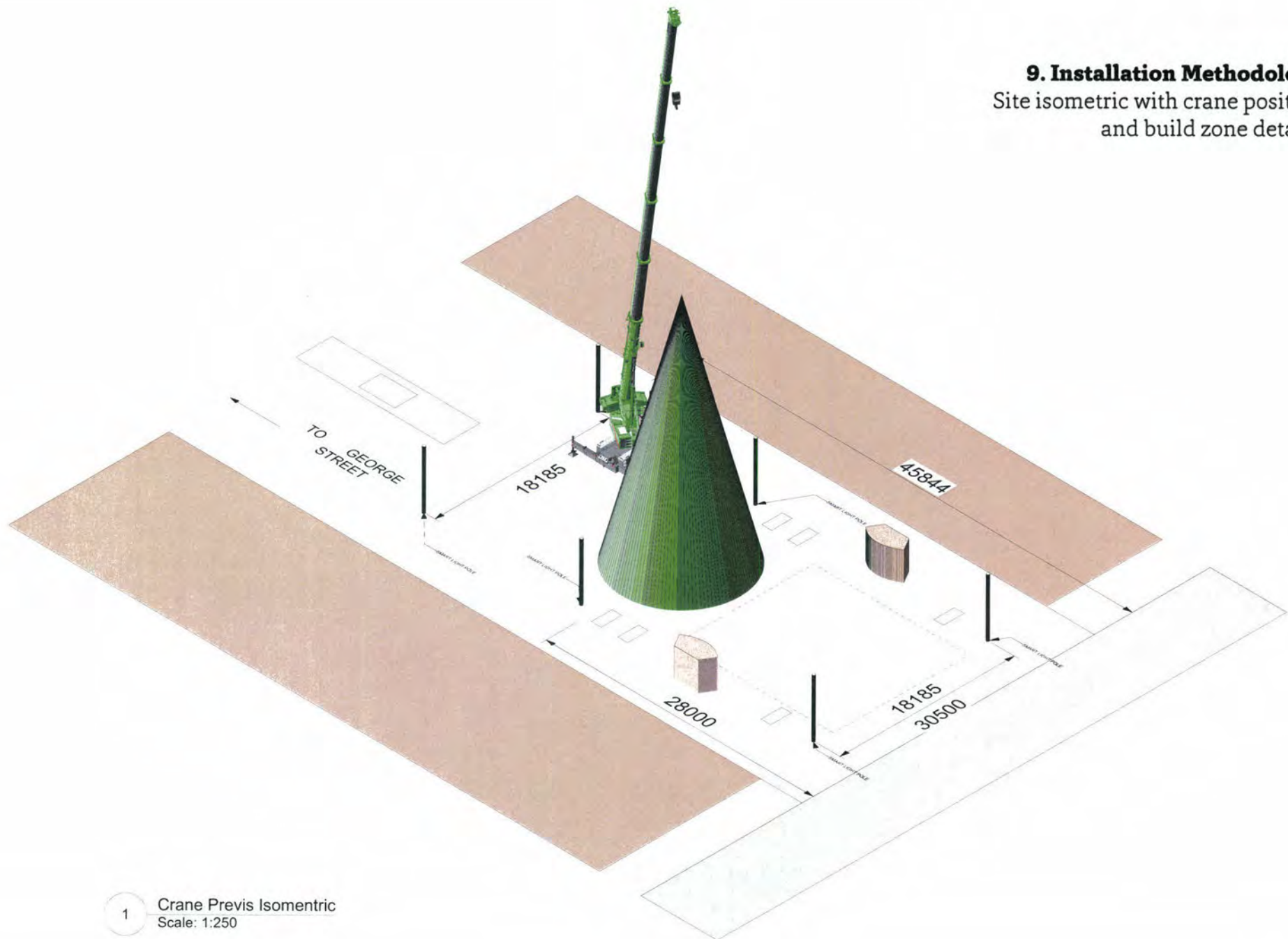
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PLAN CRANE PREVIS

Scale: 1:250

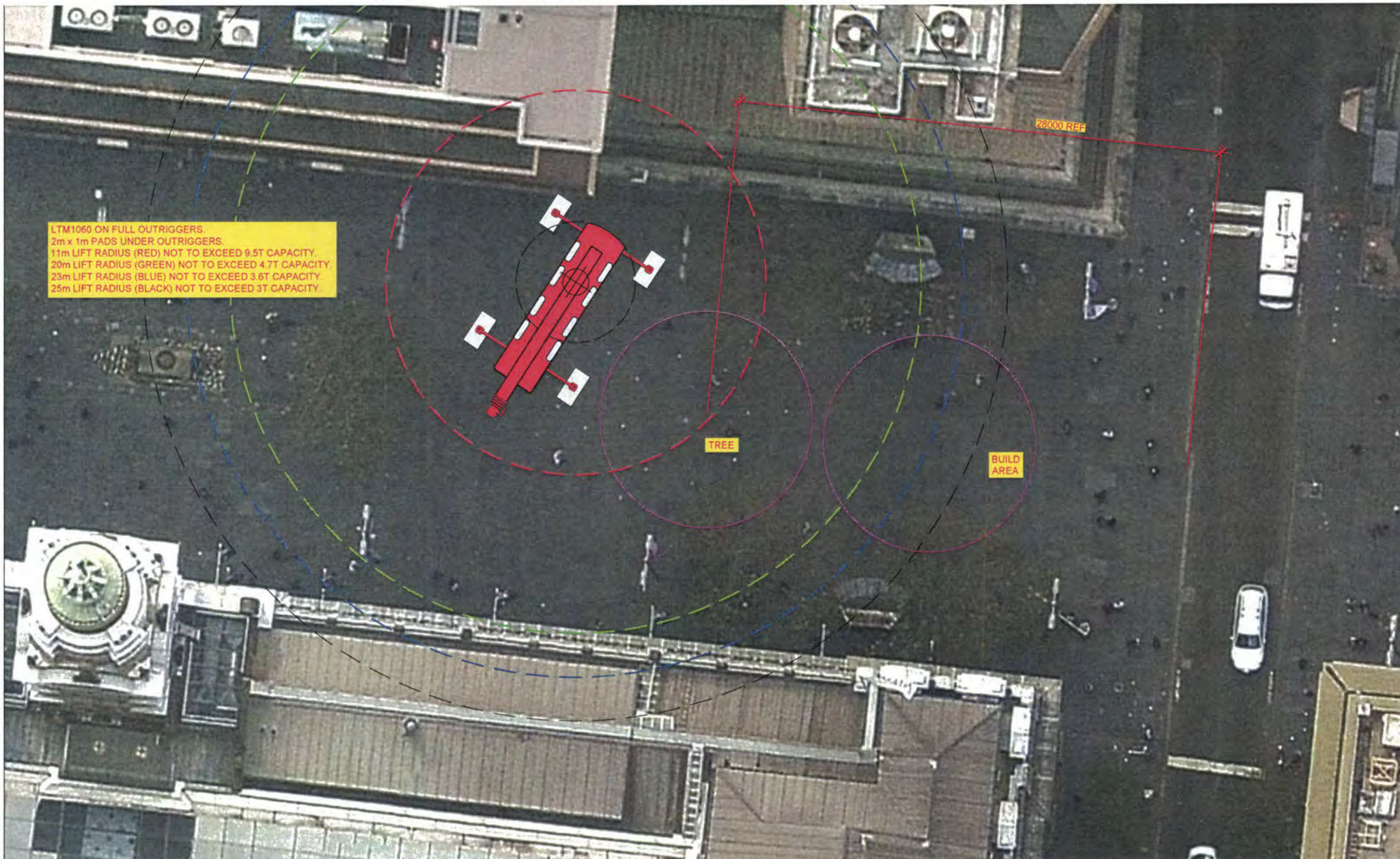
9. Installation Methodology

Site isometric with crane position and build zone details.



1

Crane Previs Isometric
Scale: 1:250



LTM1060 ON FULL OUTRIGGERS.
 2m x 1m PADS UNDER OUTRIGGERS.
 11m LIFT RADIUS (RED) NOT TO EXCEED 9.5T CAPACITY.
 20m LIFT RADIUS (GREEN) NOT TO EXCEED 4.7T CAPACITY.
 23m LIFT RADIUS (BLUE) NOT TO EXCEED 3.6T CAPACITY.
 25m LIFT RADIUS (BLACK) NOT TO EXCEED 3T CAPACITY.

9. Installation Methodology

Site plan with crane details provided by Gillespies.

PROJECT NORTH:



Issue	Date	Description	Drawn	Chkd	Appd
0	13.02.18	PRELIMINARY	MH	RE	RE

GILLESPIES 1984
 Cranes & More

Glenderrig
 37 Cox Place NSW
 P: 02 9667 7968
 F: 02 9667 7977

Rozelle
 84 Lifford Road NSW
 P: 02 9618 1877
 F: 02 9665 1337

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PROJECT:
 XMAS TREE
 MARTIN PLACE

CLIENT:

TITLE:
 LTM1060 ALL TERRAIN
 INSTALLING TREE SECTIONS

Scale	Drawing No.	Issue
1:200 @ A3	001	0

PLOT DATE: 13 February, 2018 - 2:09 PM DWG FILE: E:\Project\DWG\Job Files\Dave Gillespie\Martin Place_Xmas Tree\001.dwg

9. Installation Methodology Crane and Access Equipment

GILLESPIES
AERIAL ACCESS DIVISION

800AJ 4WD Articulating Boom Lifts 'Quick Stick'
High Performance at the Highest Level

Model 800AJ



AVAILABLE WITH 4 WHEEL STEER

AVAILABLE WITH SKYPOWER GENERATORS

TECHNICAL SPECIFICATIONS

Platform Height	20.0 m (65 ft 6 in)
Maximum Height	21.0 m (68 ft 9 in)
Articulating Height	18.0 m (59 ft 1 in)
Horizontal Reach	10.0 m (32 ft 8 in)
Articulating Reach	12.0 m (39 ft 4 in)
Articulating Capacity	1000 kg (2200 lbs)
Articulating Weight	1000 kg (2200 lbs)

OVERALL DIMENSIONS

Platform Size	2.0 m x 1.0 m (6 ft 6 in x 3 ft 3 in)
Platform Width	2.0 m (6 ft 6 in)
Platform Depth	1.0 m (3 ft 3 in)
Platform Height	0.8 m (2 ft 6 in)
Platform Weight	1000 kg (2200 lbs)
Platform Capacity	1000 kg (2200 lbs)
Platform Weight	1000 kg (2200 lbs)

Tel: 02 9818 1877 Fax: 02 9555 1337
Visit our website www.gillespiescalanes.com.au

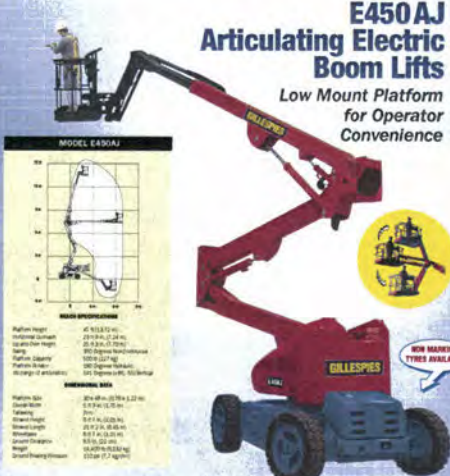
1950
EST.

Our Strength Is Service

GILLESPIES
AERIAL ACCESS DIVISION

E450AJ Articulating Electric Boom Lifts
Low Mount Platform for Operator Convenience

Model E450AJ



TECHNICAL SPECIFICATIONS

Platform Height	10.0 m (32 ft 8 in)
Maximum Height	11.0 m (36 ft 1 in)
Articulating Height	8.0 m (26 ft 3 in)
Horizontal Reach	4.0 m (13 ft 1 in)
Articulating Reach	6.0 m (19 ft 8 in)
Articulating Capacity	1000 kg (2200 lbs)
Articulating Weight	1000 kg (2200 lbs)

OVERALL DIMENSIONS

Platform Size	2.0 m x 1.0 m (6 ft 6 in x 3 ft 3 in)
Platform Width	2.0 m (6 ft 6 in)
Platform Depth	1.0 m (3 ft 3 in)
Platform Height	0.8 m (2 ft 6 in)
Platform Weight	1000 kg (2200 lbs)
Platform Capacity	1000 kg (2200 lbs)
Platform Weight	1000 kg (2200 lbs)

Tel: 02 9818 1877 Fax: 02 9555 1337
Visit our website www.gillespiescalanes.com.au

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Our Strength Is Service

GILLESPIES
CRANE SERVICES

LTM1060/2
All Terrain Mobile Crane
Max. Lifting Capacity: 60.0 metric tonne at 2.5 m
Max boom Length: 59 m

Featuring

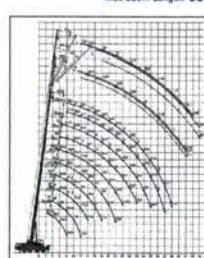
Computerised Lift Plan
Brake/steer

RATED CAPACITY
50 Tonnes at 3m radius
700 kg at 40m radius
42m Main Boom
17m Fly Jib
Hook Height to 55m
All Wheel Steer - 4WD

OUTRIGGER BASE
Fut: 8.0m x 9.3m
Hut: 6.0 x 4.3m

OVERALL DIMENSIONS
Width 2.7m (9'0")
Length 12.500 metres
Height 3.850 metres

This mobile crane has excellent capacity on half outriggers in all configurations for sites with limited space




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Visit our website www.gillespiescalanes.com.au

1950
EST.

monitor LIFTS

PB 1890





With the track monitor, the PB 1890 has an overall ground dimension of only 792 x 1951 mm which allows it to drive through a domestic doorway!

- Lightweight and easily transportable.
- Articulated boom with fly jib for greater versatility.
- Excellent weight/horizontal outreach ratio.
- Full working height with 200kg basket capacity.
- Fully hydraulic proportional and simultaneous controls.
- Dual power Diesel or Petrol engine + mains 240 volt.
- Automatic outreach limiter.
- Quickly removable basket for very tight access.
- 240 volt and high pressure outlets at the basket.

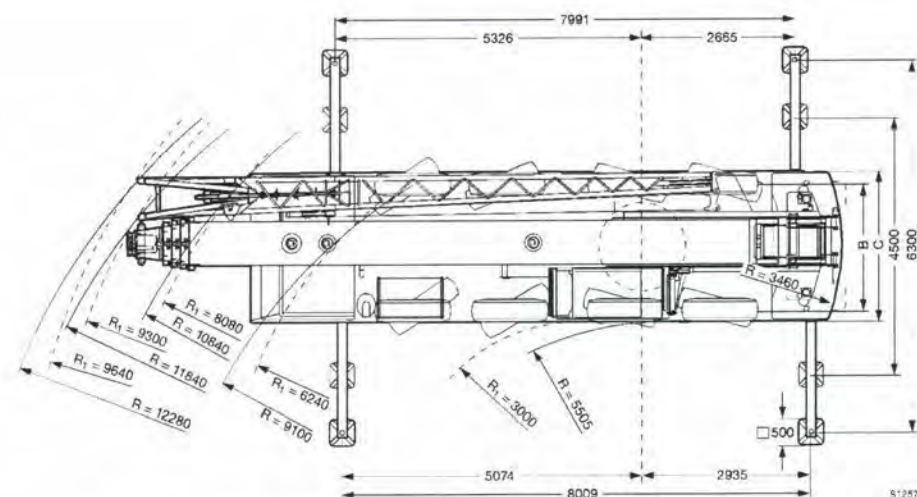
At only 2.8 tonnes in weight, the PB 1890 is truly easily transportable!

PB 1890 Spider-Lift

9. Installation Methodology

Crane Specification

LTM1060/2



	10,0 - 42 m				DIN ISO													
		10,9 m	14,5 m	18 m	21,6 m	25,2 m	28,8 m	32,4 m	35,9 m	39,5 m	42 m							
2,5	60 °																	
3	51		51	45														
3,5	46,5		46	42	37,5													
4	42,5		42	39	35													
4,5	38,5		38,5	36,5	33	27,8	24,5											
5	35,5		35	34	31	28,1	25											
6	30		29,8	29,4	27,2	25,1	22,5	19,8										
7	25,7		25,2	24,8	24,2	22,5	20,3	18,3										
8	21,9		21,7	21	20,2	19,7	18,5	17	15,3									
9			16,9	18,9	17,1	16,8	16,1	15,6	13,4	11,8	10,1							
10			16,1	16,2	14,7	14,5	14	13,9	12,6	10,5	9,1							
12			12,3	12,3	11,4	12,1	10,8	10,9	10,7	9,4	8,2							
14				9,6	10,2	9,5	9,2	8,8	8,7	8,5	7,5							
16					8,2	7,6	8,1	7,1	7,6	7,2	6,9							
18					6,8	6,6	6,8	6,2	6,4	6,1	6							
20						5,8	5,8	5,4	5,2	4,9	4,9							
22						4,9	4,8	4,6	4,4	4,1	4,1							
24							4,2	4	3,8	3,5	3,5							
26								3,5	3,3	3	3							
28								3,1	2,9	2,6	2,6							
30									2,5	2,2	2,2							
32										1,9	1,9							
34										1,6	1,6							
36										1,3	1,4							
38											1,1							

scoundrel

10. CHRISTMAS TREES - 16m, 12m & 8m

10. Christmas Tree - 16 - 8 Metre

Wombat Inclusion



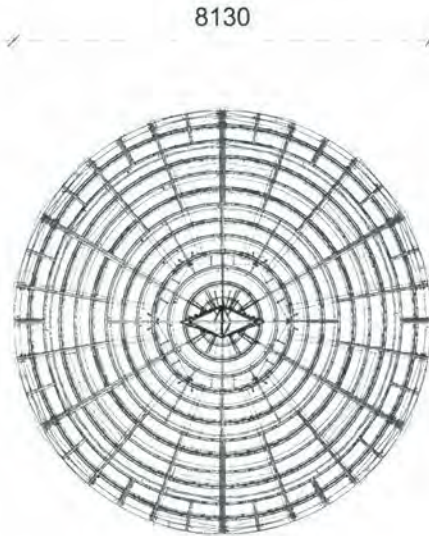
Our wombat is the hero of every tree. There are multiple wombats in the 24 metre tree that pop in and out to surprise and delight. In the 16 - 8 metre trees however, our wombat is present but he does not animate. Each tree has one stationary wombat on show at all times in the one place.

10. Christmas Tree - 16 Metre
Artist Impression - Green Square



Artist Impression / Green Square.

-WOMBAT NOTE-
TREE TO INCLUDE ONE STATIC
REDUCED SCALE WOMBAT
FINAL SIZE/POSITION TBA

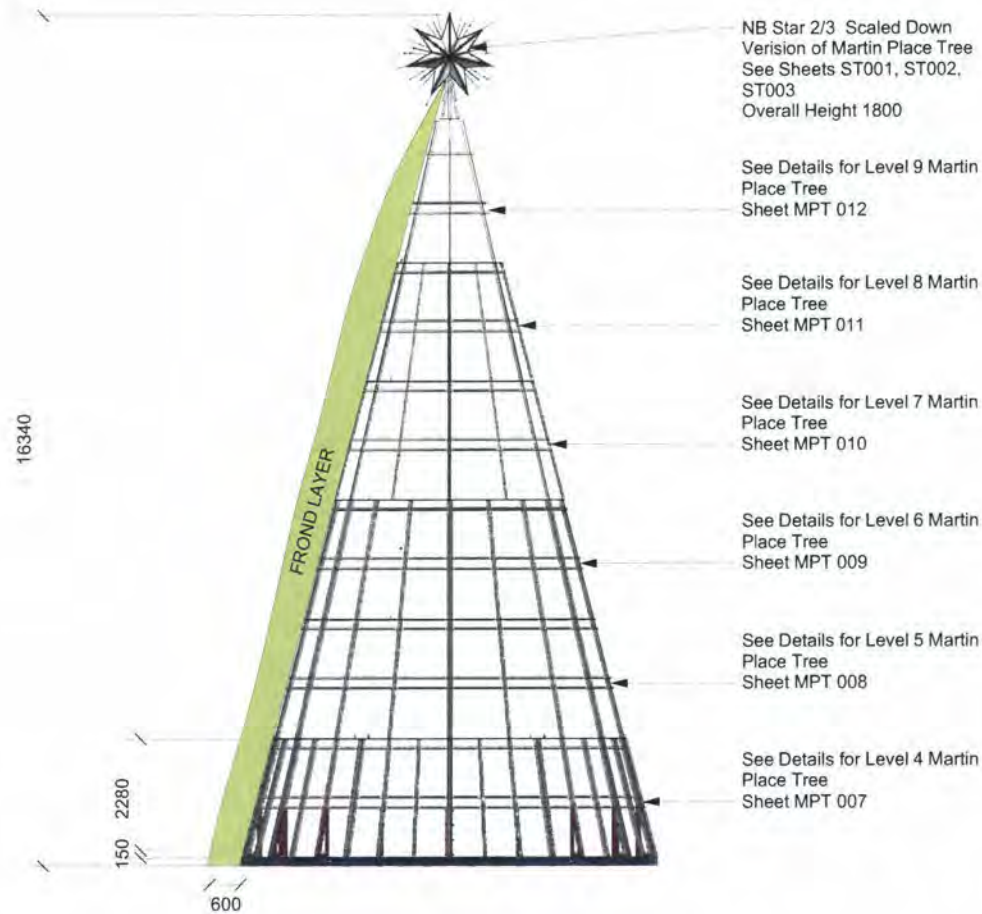


1 16M TREE PLAN
Scale: 1:100

Approved By: Morgan Sheehy
Rev.: A
Signed: 
Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING



2 16M TREE PLAN
Scale: 1:100

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED
WITH FROND PANELS
SEE SHEETS TRF001, TRF002

-DRAFT -

NOT FOR CONSTRUCTION

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
16M TREE PLAN / ELEVATION

CREATIVE DIRECTOR
JAMES DIVE

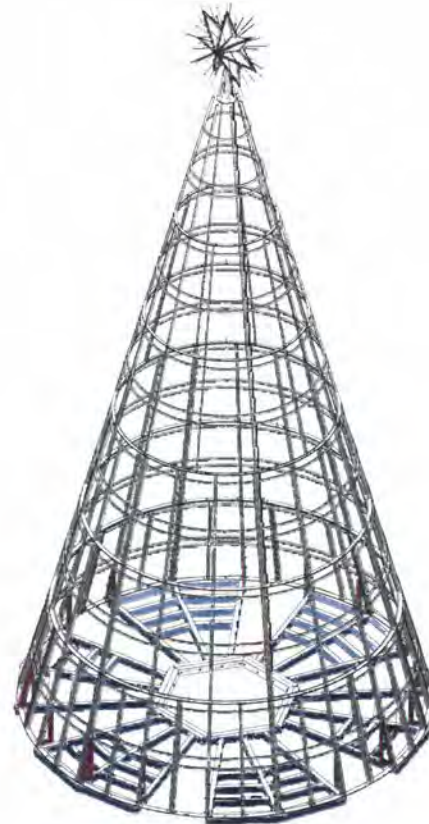
EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
28/2/18 1:100@A3

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16MT001 SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING 17-19 O'Conner St,
Chippendale NSW 2008
ph: 02 9890 1734



1

16M TREE ISOMETRIC

Scale: 1:100

Approved By: Morgan Sheehy
Rev.: A
Signed:

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

GENERAL NOTES

STEEL

Subframe to be constructed in mild steel.

FASTENINGS

All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED
WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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DRAWING TITLE

16M TREE ISOMETRIC

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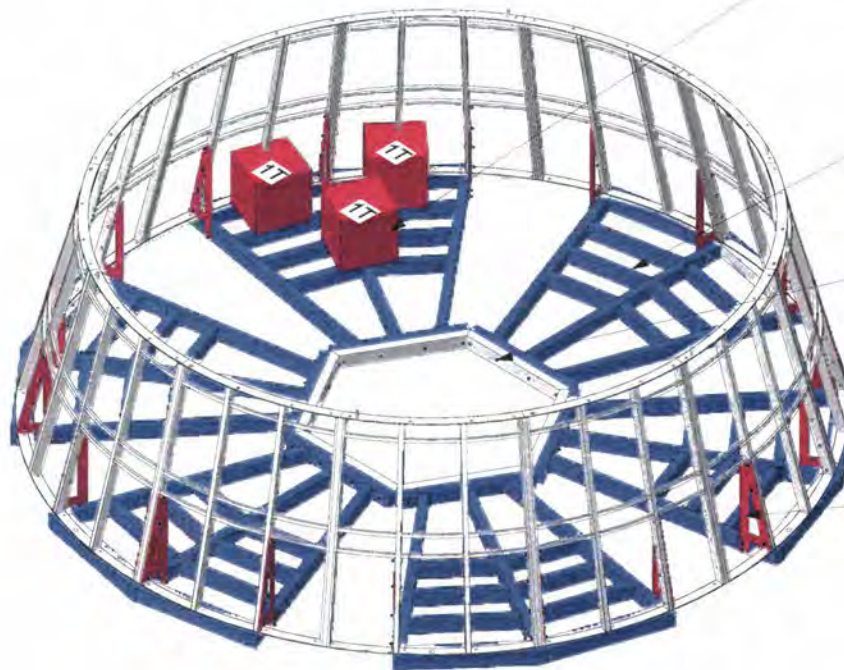
SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph. 02 9690 1734



1
16M TREE BALLAST BASE ISOMETRIC
Scale: 1:50

Base for the 16m tree will require 18 tonnes of ballast distributed with one tonne concrete blocks as per this segment throughout.

Ballast base segments constructed in 150mm x 100mm x 4mm RHS.

Segments of Ballast Base to be bolted to hexagonal core piece. M16 bolts to be used with 18mm ϕ holes

Connection between ballast base segments and tree subframe to be made via steel plate legs - see details on sheet 16MT004

GENERAL NOTES

STEEL

Subframe to be constructed in mild steel.

FASTENINGS

All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

16M TREE BALLAST BASE

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

28/2/18

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1:50 @ A3

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16MT003

DRAWING BY

SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

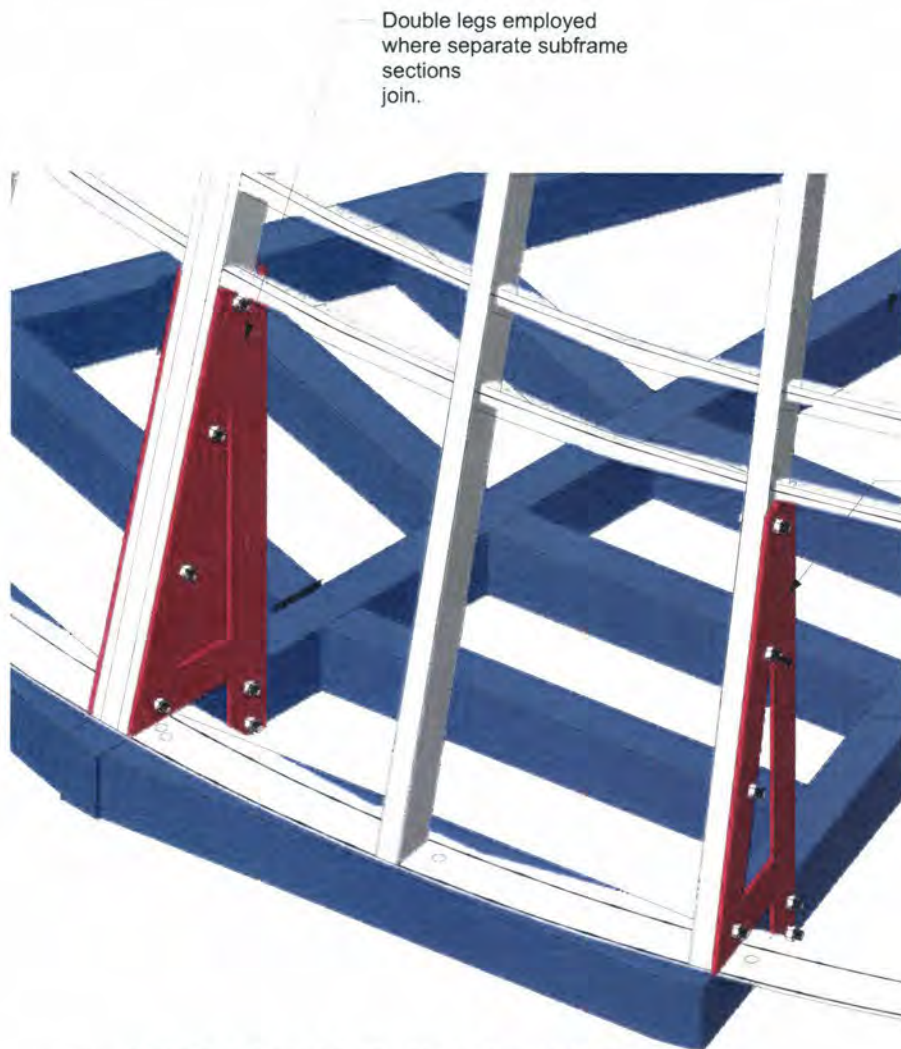
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

Morgan Sheehy

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
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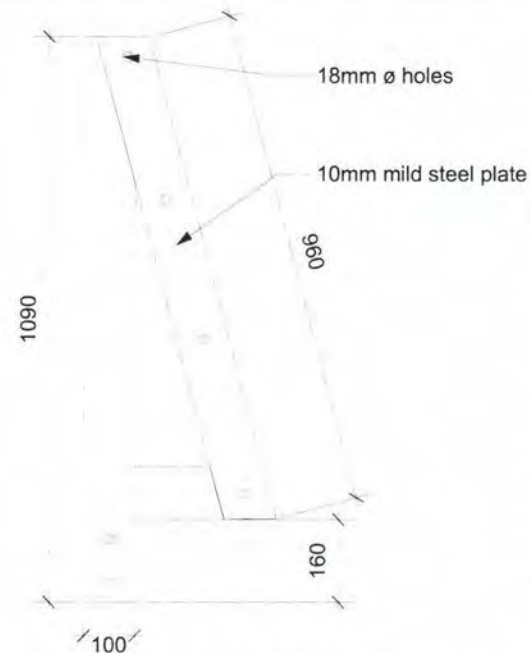
1

16M TREE BALLAST BASE DETAIL ISOMETRIC
Scale: 1:10

Ballast base segments constructed in 150mm x 100mm x 4mm RHS.

Connection between ballast base sections and subframe to be made with 10mm steel plate legs.

M16 galvanised steel 8.8 Grade Bolts with 18mm $\varnothing$ holes.



2

STEEL LEG DETAIL
Scale: 1:10

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm $\varnothing$ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm $\varnothing$ holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

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DRAWING TITLE

16M TREE BALLAST BASE

CREATIVE DIRECTOR

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DRAWING BY

SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING

17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

Morgan Sheehy

Date: 20.03.18

Morgan Sheehy
MEng (Hons 1) Tech Cert Eng (Civil)
MIEAustCPengNER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)

DIRECTOR - EVENT ENGINEERING

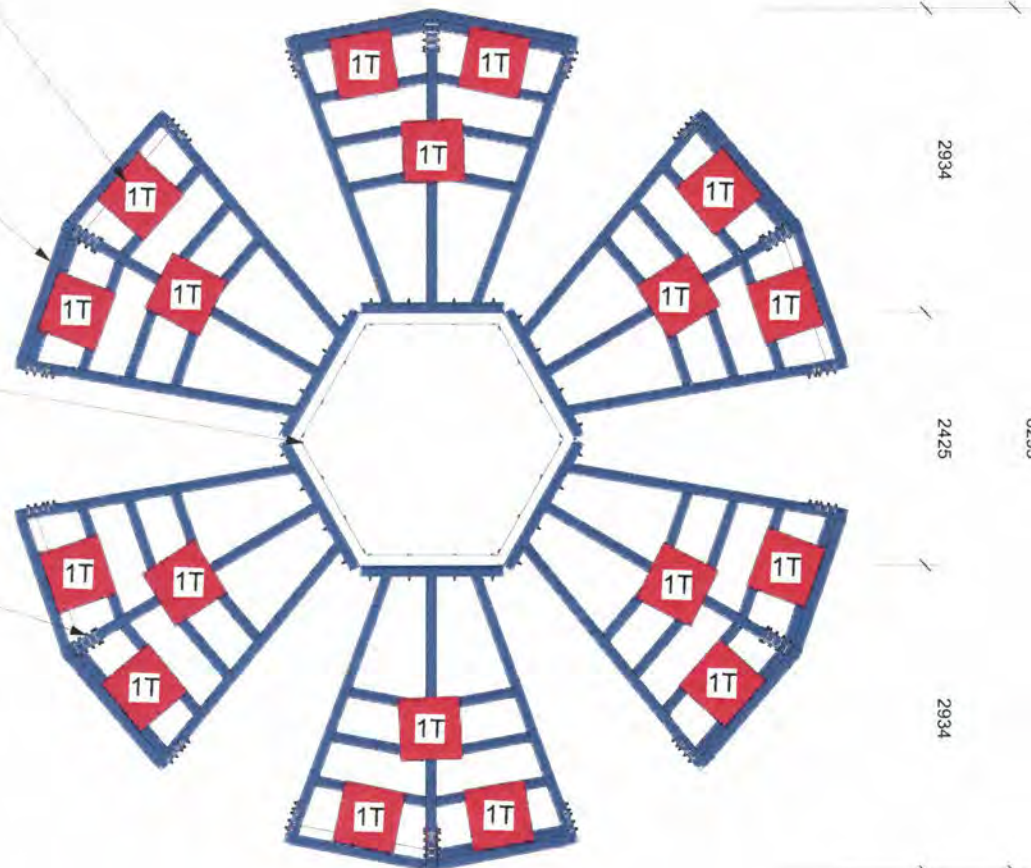
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Base for the 16m tree will require 18 tonnes of ballast distributed with one tonne concrete blocks as per this segment throughout.

Ballast base to consist of 6 segments constructed in 150mm x 100mm x 4mm RHS. See Segment detail plan 16MT006

Segments of Ballast Base to be bolted to hexagonal core piece to tie all segments together. M16 bolts to be used with 18mm ø holes

Connection between ballast base sections to be made via steel plate legs - see details on sheet 16MT004



3

16M TREE BALLAST BASE PLAN
Scale: 1:50

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ø holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ø holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED WITH FROND PANELS
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+61 2 8287 8800

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DRAWING TITLE
16M TREE PLAN / ELEVATION

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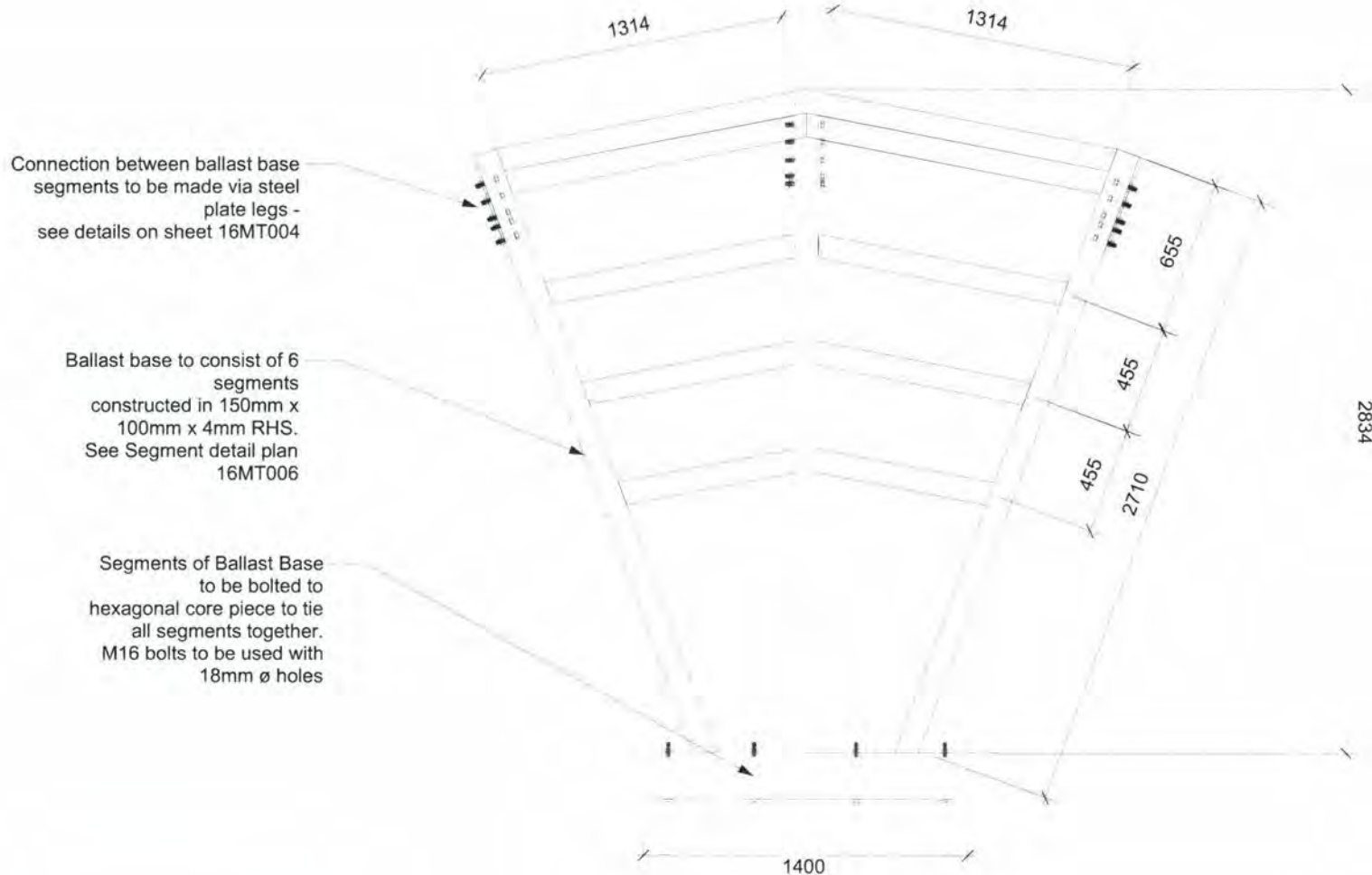
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16MT005

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St,
Chippendale NSW 2008
ph 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed: 
Date: _____
Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING



GENERAL NOTES

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All bolts joining horizontal elements shall be M16 bolts in 18mm ø holes.

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2. Coating System
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2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED WITH FROND PANELS
SEE SHEETS TRF001, TRF002
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AUSTRALIA
+61 2 8287 8800

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DRAWING TITLE
16M TREE PLAN / ELEVATION

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JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
28/2/18

SCALE
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16MT006

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

3

16M TREE BALLAST BASE SEGEMENT DETAIL PLAN
Scale: 1:20

11. Christmas Tree - 16 Metre Tree Dressing

1

Green Square Tree Dressing Diagram 16m

Scale 1:100

Basic Dimensions

Overall Size: 16m x 8m

Star: 1.6m x 1.6m

Baubles: 550mm Dia x 6 kinds

Flower Bursts: 200mm Dia x 8 kinds

Ribbon: Sinamay 400mm width @ approx 1.6m
Diagonal centres

Sinamay Ribbon

Ribbon to wrap tree in an organic undulating pattern pushing deep into the tree intermittently and re-emerging as it travels to the top.

Quantities

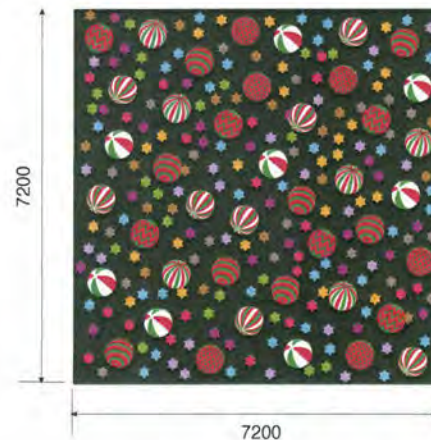
Baubles: Total 198 (33 x 6 kind)

Flowers Bursts: Total 1000 (125 x 8 kind)

Ribbon: Approximately 200 linear metres

Average density and distribution of decorations over 7200mm²

40 Baubles / 6 kind
200 Flowers / 8 kind



KEY

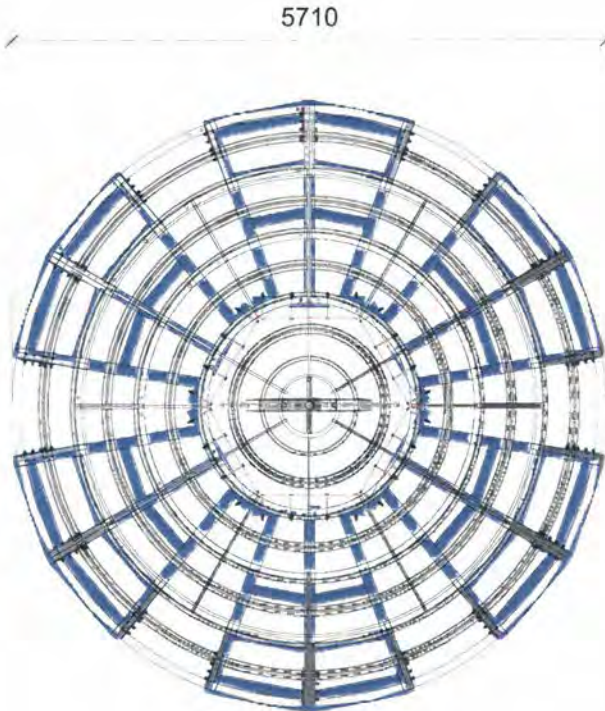
- | | | | |
|--|------------------------------|--|------------------------------------|
| | 550mm Dia Bauble (Design 01) | | 200mm Floral 01 (Kangaroo Paw) |
| | 550mm Dia Bauble (Design 02) | | 200mm Floral 02 (Red Waratah) |
| | 550mm Dia Bauble (Design 03) | | 200mm Floral 03 (Bottle Brush) |
| | 550mm Dia Bauble (Design 04) | | 200mm Floral 04 (Paper Daisy) |
| | 550mm Dia Bauble (Design 05) | | 200mm Floral 05 (Wattle) |
| | 550mm Dia Bauble (Design 06) | | 200mm Floral 06 (wild Gum Blossom) |
| | | | 200mm Floral 07 (Flannel Flower) |
| | Sinamay Ribbon 400mm W | | 200mm Floral 08 (Isopogon) |

10. Christmas Tree - 12 Metre
Artist Impression - Town Hall



Artist Impression / Town Hall

-WOMBAT NOTE-
TREE TO INCLUDE ONE STATIC
REDUCED SCALE WOMBAT
FINAL SIZE/POSITION TBA



1 12MT PLAN
Scale: 1:50

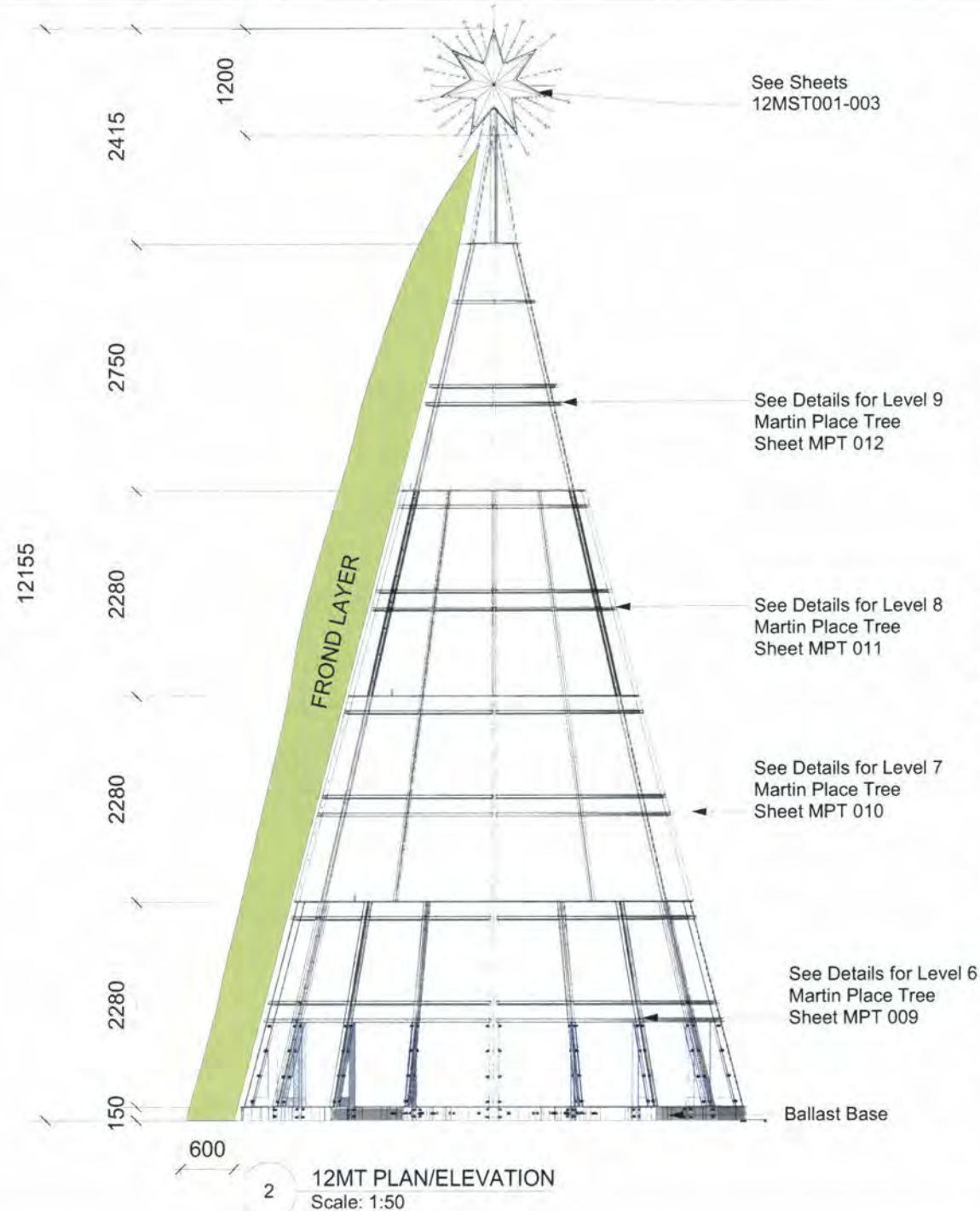
Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT



2 12MT PLAN/ELEVATION
Scale: 1:50

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED
WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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3 LITTLE QUEEN ST
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AUSTRALIA
+61 2 8287 8800

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DRAWING TITLE
12M TREE PLAN/ELEVATION

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
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12MT001 SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 961 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Connor St.
Chippendale NSW 2008
ph: 02 9690 1734



1 12M TREE ISOMETRIC
Scale: 1:50

Approved By: Morgan Sheehy
Rev.: A
Signed: 
Date: 20.03.18

Morgan Sheehy
MEng (Hons 1) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING

GENERAL NOTES

STEEL
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3. Colour Brunswick Green - Dulux

TREE TO BE DRESSED
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SEE SHEETS TRF001, TRF002

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DRAWING TITLE

12M TREE ISOMETRIC

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

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28/2/18

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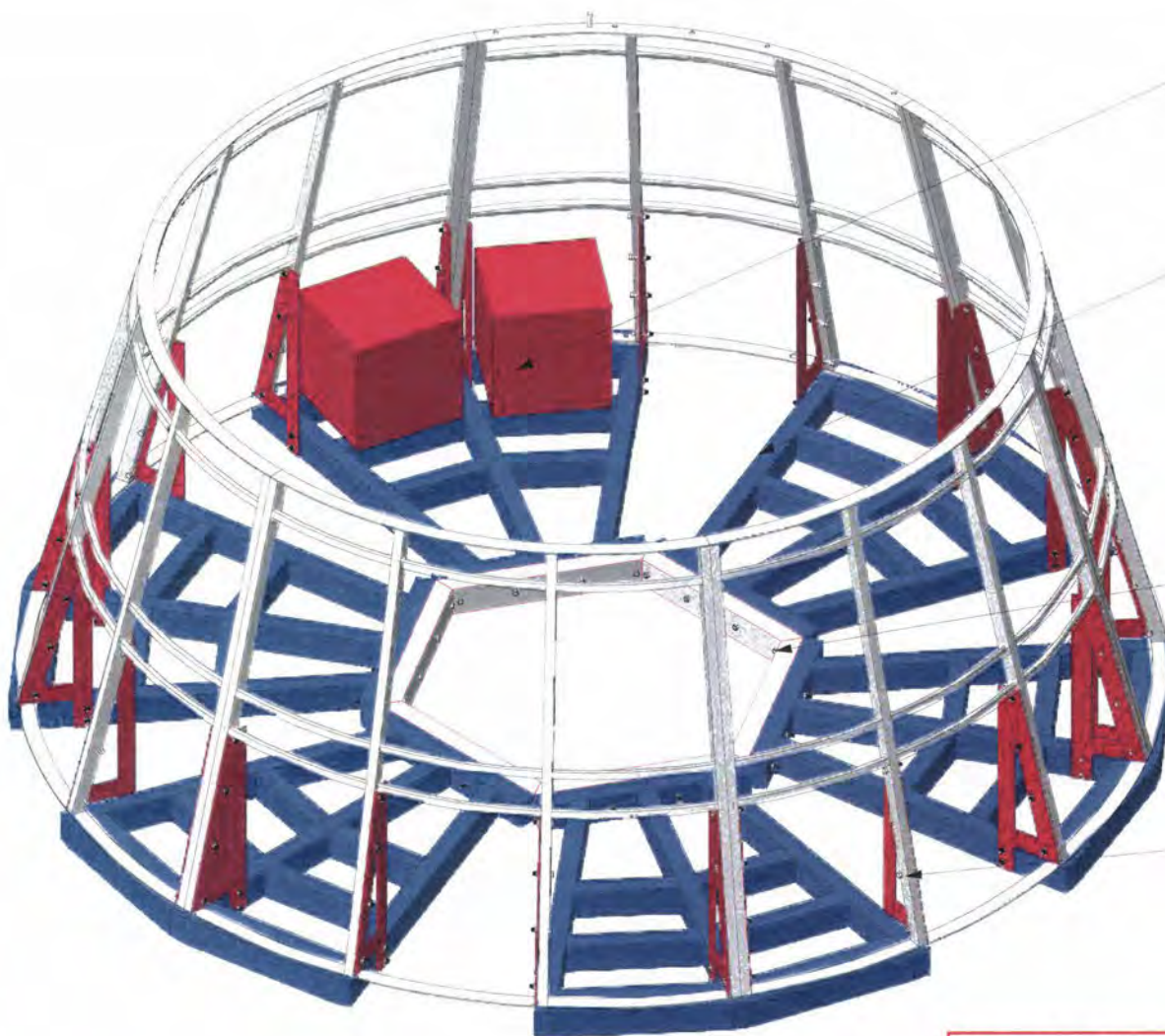
SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING 17-19 O'Conner St
Chippendale NSW 2008
ph. 02 9699 1734



Base for the 12m tree will require 12 tonnes of ballast distributed with one tonne concrete blocks as per this segments throughout.

Ballast base segments constructed in 150mm x 100mm x 4mm RHS.

Segments of Ballast Base to be bolted to hexagonal core piece. M16 bolts to be used with 18mm ϕ holes

Connection between ballast base segments to be made via steel plate legs - see details on sheet 12MT004

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

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2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

TREE TO BE DRESSED WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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DRAWING TITLE
12M TREE BALLAST BASE

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
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DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

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Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
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1

12M TREE BALLAST BASE ISOMETRIC
Scale: 1:25



1

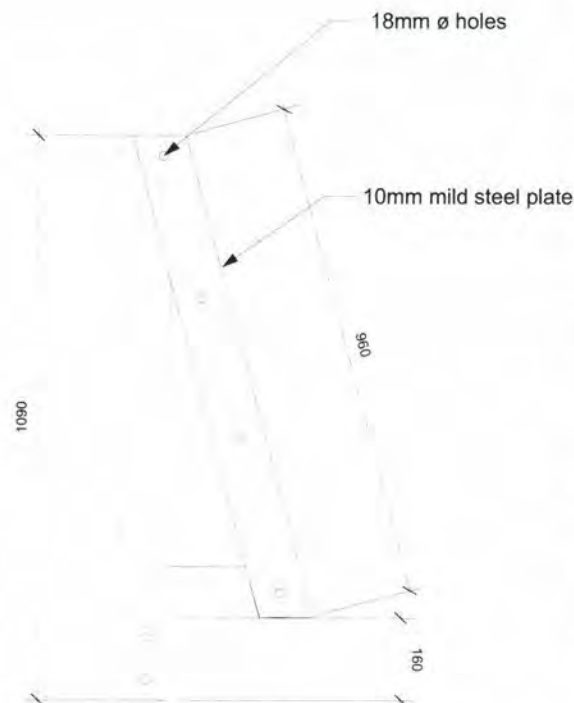
12M TREE BALLAST BASE DETAIL ISOMETRIC
Scale: 1:10

Double legs employed where separate subframe sections join.

Ballast base segments constructed in 150mm x 100mm x 4mm RHS.

Connection between ballast base sections and subframe to be made with 10mm steel plate legs.

M16 galvanised steel 8.8 Grade Bolts with 18mm ø holes.



2

LEG DETAIL FRONT VIEW
Scale: 1:10

Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]
Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT ENGINEERING

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ø holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ø holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

TREE TO BE DRESSED WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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DRAWING TITLE

12M TREE BALLAST BASE

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

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SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

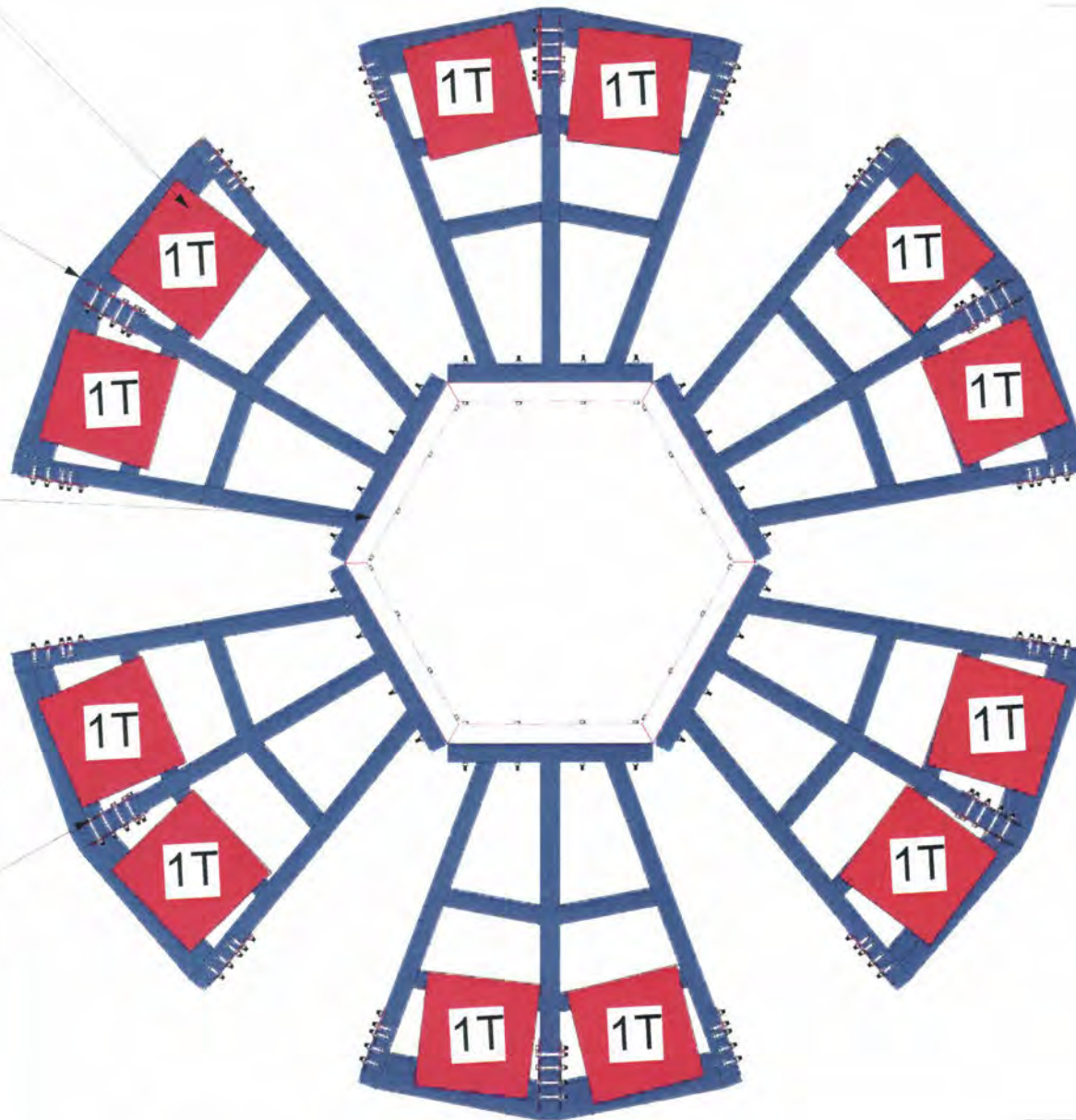
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ph: 02 9690 1734

Base for the 12m tree will require 18 tonnes of ballast distributed with one tonne concrete blocks as per this segment throughout.

Ballast base to consist of 6 segments constructed in 150mm x 100mm x 4mm RHS. See Segment detail plan 12MT006

Segments of Ballast Base to be bolted to hexagonal core piece to tie all segments together. M16 bolts to be used with 18mm ϕ holes

Connection between ballast base and suframe via steel plate legs - see details on sheet 16MT004



Approved By: Morgan Sheehy
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Morgan Sheehy
MEEng (Hons I) Tech Cert Eng (Civil)
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Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT ENGINEERING

1

12M TREE BALLAST BASE PLAN
Scale: 1:25

- GENERAL NOTES**
- STEEL**
Subframe to be constructed in mild steel.
- FASTENINGS**
All fastenings must be
8.8 Grade Galvanised Steel Bolts
- All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.
- All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.
- FINISHES** - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A
- All steel to be prepared for painting as per Dulux preparation.
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3rd Coat Weathermax HBR
 - Colour Brunswick Green - Dulux
- TREE TO BE DRESSED WITH FROND PANELS
SEE SHEETS TRF001, TRF002
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DRAWING TITLE
12M TREE BALLAST BASE

CREATIVE DIRECTOR
JAMES DIVE

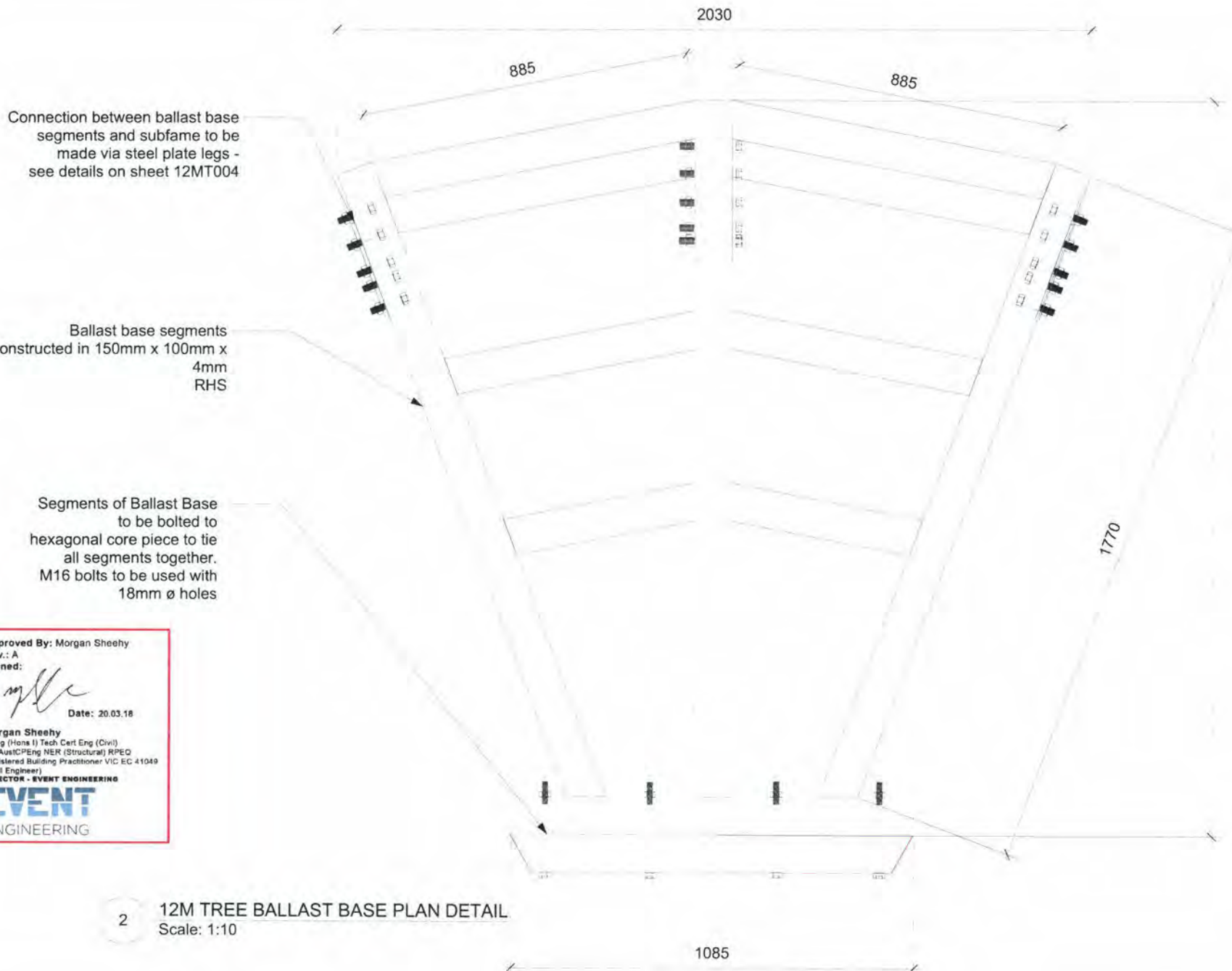
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DRAWING BY SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



2 12M TREE BALLAST BASE PLAN DETAIL
Scale: 1:10

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ø holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ø holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux

TREE TO BE DRESSED
WITH FROND PANELS
SEE SHEETS TRF001, TRF002

-DRAFT -
NOT FOR CONSTRUCTION

scoundrel

3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
12M TREE BALLAST BASE

CREATIVE DIRECTOR
JAMES DIVE

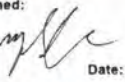
EXECUTIVE PRODUCER
KATE GOODEN

DATE
28/2/18
SCALE
1:25 @ A3

DRAWING No. 12MT006
DRAWING BY SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph. 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed: 
Date: 20.03.18
Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIE Aust CPENG MER (Structural) RPEC
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

11. Christmas Tree - 12 Metre Tree Dressing

1

Tree Dressing Diagram 12m

Scale 1:100

Basic Dimensions

Overall Size: 12m x 6m
Star: 1.2m x 1.2m
Baubles: 400mm Dia x 6 kinds
Flower Bursts: 200mm Dia x 8 kinds
Ribbon: Sinamay 300mm width @ approx 1.2m
Diagonal centres

Sinamay Ribbon

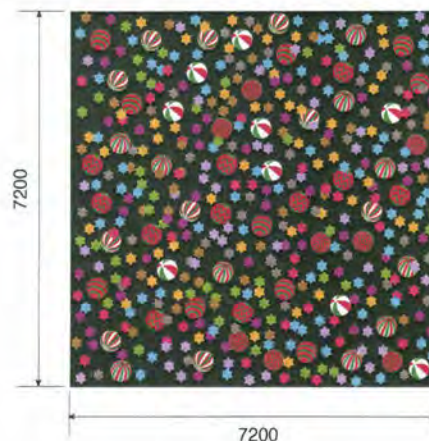
Ribbon to wrap tree in an organic undulating pattern pushing deep into the tree intermittently and re-emerging as it travels to the top.

Quantities

Baubles: Total 168 (28 x 6 kind)
Flowers Bursts: Total 800 (100 x 8 kind)
Ribbon: Approximately 150 linear metres

Average density and distribution of decorations over 7200mm²

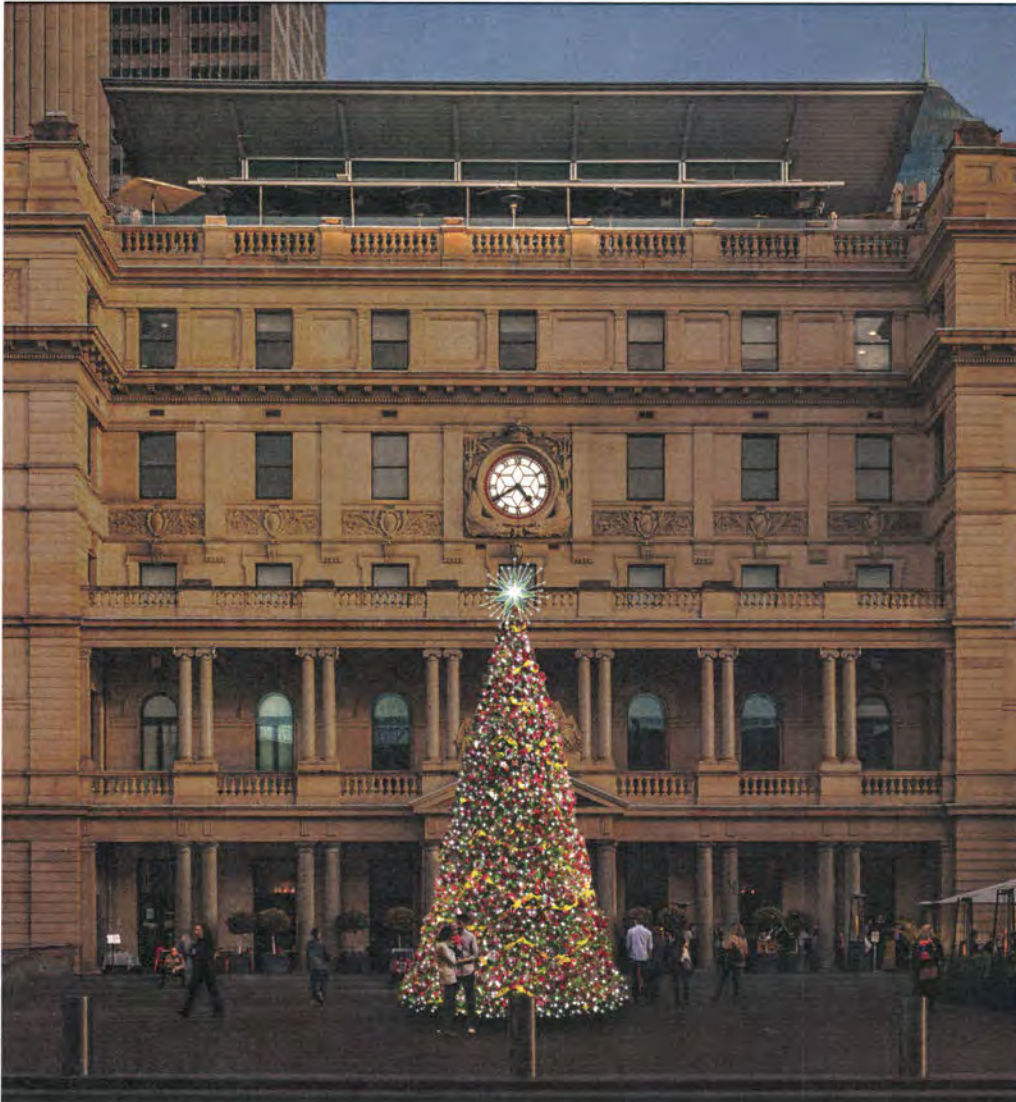
58 Baubles / 6 kind
200 Flowers / 8 kind



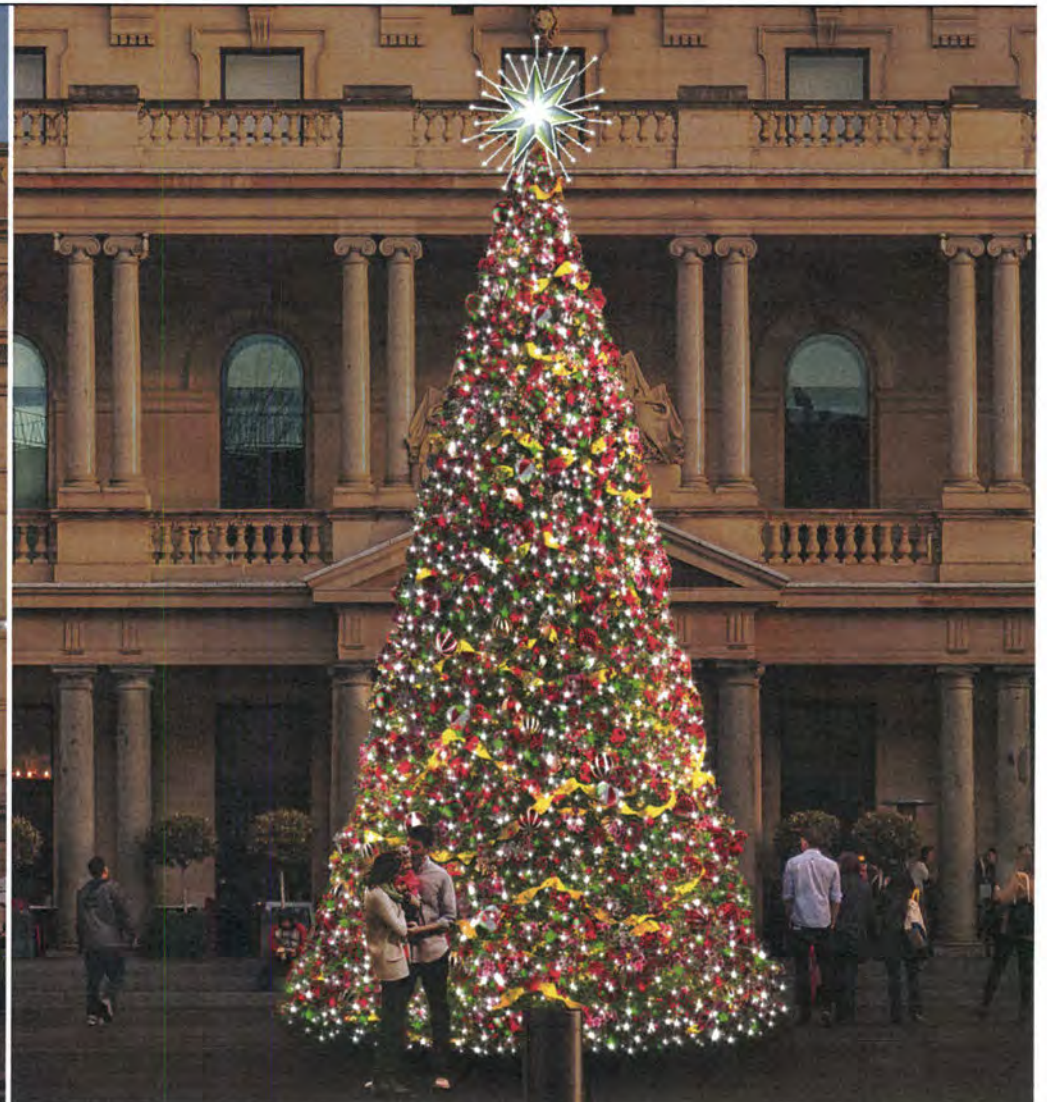
KEY

- | | | | |
|--|------------------------------|--|------------------------------------|
| | 400mm Dia Bauble (Design 01) | | 200mm Floral 01 (Kangaroo Paw) |
| | 400mm Dia Bauble (Design 02) | | 200mm Floral 02 (Red Waratah) |
| | 400mm Dia Bauble (Design 03) | | 200mm Floral 03 (Bottle Brush) |
| | 400mm Dia Bauble (Design 04) | | 200mm Floral 04 (Paper Daisy) |
| | 400mm Dia Bauble (Design 05) | | 200mm Floral 05 (Wattle) |
| | 400mm Dia Bauble (Design 06) | | 200mm Floral 06 (wild Gum Blossom) |
| | | | 200mm Floral 07 (Flannel Flower) |
| | Sinamay Ribbon 300mm W | | 200mm Floral 08 (Isopogon) |

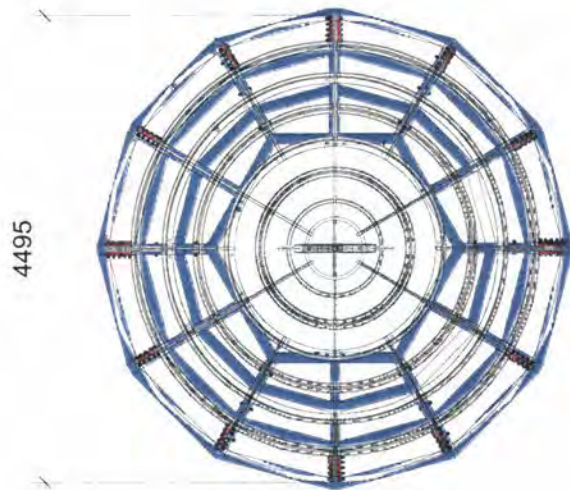
10. Christmas Tree - 8 Metre
Artist Impression - Customs House



Artist Impression / Customs House.



-WOMBAT NOTE-
TREE TO INCLUDE ONE STATIC
REDUCED SCALE WOMBAT
FINAL SIZE/POSITION TBA

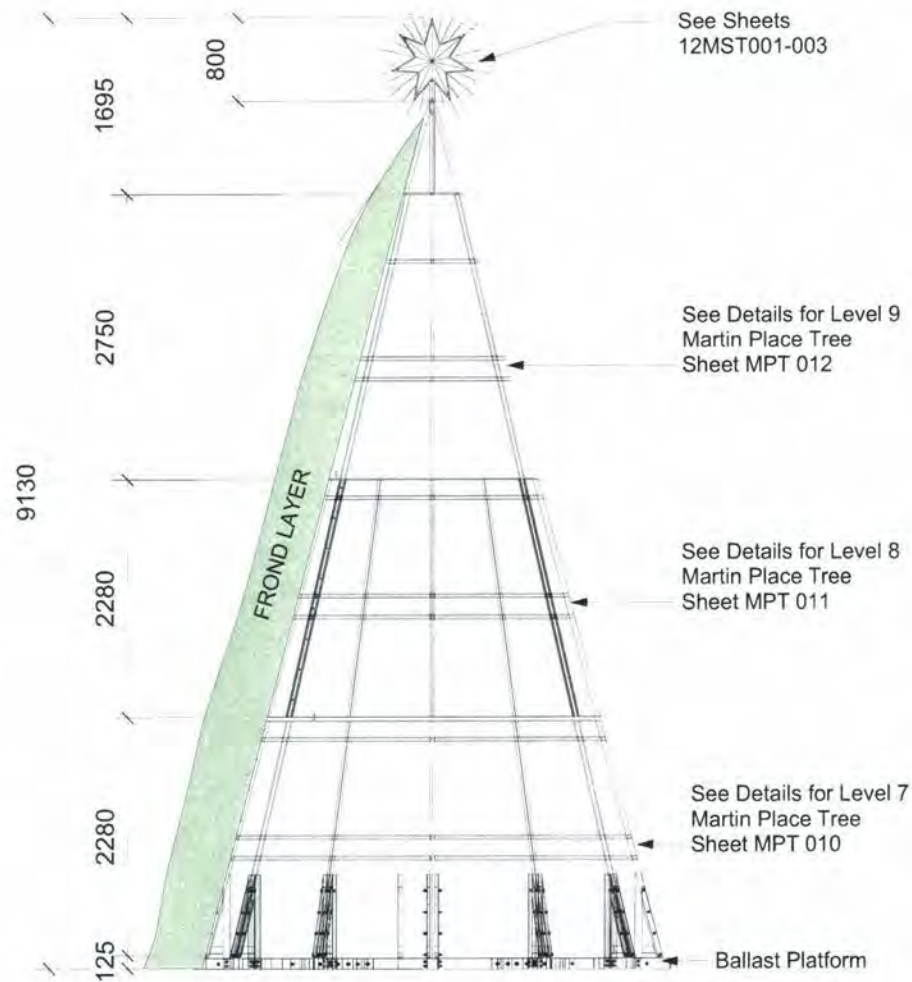


1 8M TREE PLAN
Scale: 1:50

Approved By: Morgan Sheehy
Rev.: A
Signed: 
Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING

EVENT
ENGINEERING



2 8M TREE ELEVATION
Scale: 1:50

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED
WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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3 LITTLE QUEEN ST
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AUSTRALIA
+61 2 8287 8600

PROJECT SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT CITY OF SYDNEY

DRAWING TITLE
8M TREE PLAN AND ELEVATION

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE SCALE
28/2/18 1:50 @ A3

DRAWING No. DRAWING BY
8MT001 SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



1

8M TREE ISOMETRIC
Scale: 1:50

GENERAL NOTES

STEEL

Subframe to be constructed in mild steel.

FASTENINGS

All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm ϕ holes.

FINISHES - See Appendix 001 for full specification ex Dulux.
Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED
WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

8M TREE ISOMETRIC

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

28/2/18

SCALE

1:50 @ A3

DRAWING No.

8MT002

DRAWING BY

SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

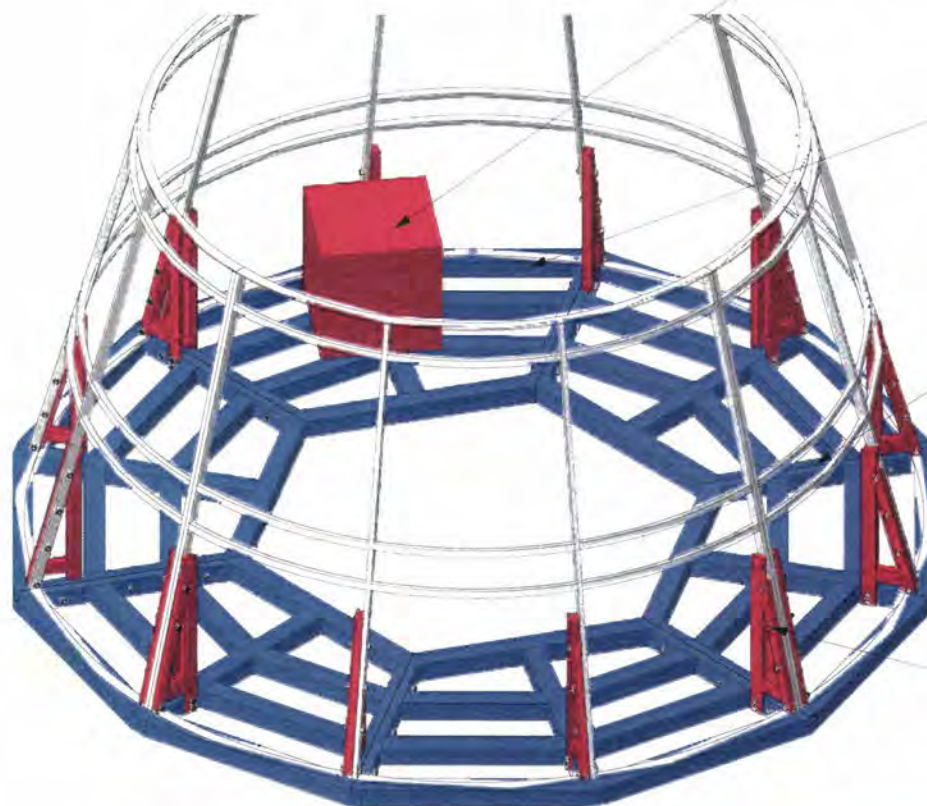
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A

Signed:

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPeng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING



Base for the 8m tree will require 10 tonnes of ballast distributed with one tonne concrete blocks evenly distributed around base perimeter

Ballast base segments constructed in 100MM X 100 X 4MM SHS AND 100mm x 50mm x 4mm RHS

Segments of Ballast Base to be bolted to together with M16 bolts to be used thru 18mm ϕ holes

Connection between ballast base segments and subframe to be made via steel plate legs - see details on sheet 8MT004

1

8M TREE BALLAST BASE ISOMETRIC
Scale: 1:25

Approved By: Morgan Sheehy
Rev.: A
Signed:

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

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FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

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2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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3 LITTLE QUEEN ST
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AUSTRALIA
+61 2 8287 8800

PROJECT SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT CITY OF SYDNEY

DRAWING TITLE
8M TREE BALLAST BASE

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE 18/3/18 SCALE 1:25 @ A3

DRAWING No. 8MT003 DRAWING BY SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING 17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



Ballast base segments constructed in 100mm x 100mm x 4mm SHS and 100x50mm x 4mm RHS.

Connection between ballast base sections and subframe to be made with 10mm steel plate legs. Plates packed with RHS to allow for a flush connection.

M16 galvanised steel 8.8 Grade Bolts with 18mm $\varnothing$ holes.

Double legs employed where separate subframe sections join.



65x35x3mm RHS packers to make for a flush connection.

GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm $\varnothing$ holes.

All bolts joining horizontal elements shall be M16 bolts in 18mm $\varnothing$ holes.

FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
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INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
8M TREE ISOMETRIC

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
28/2/18

DRAWING No. 8MT004
DRAWING BY SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER
EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

1

8M TREE BALLAST BASE
Scale: 1:10

Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

2

LEG DETAIL FRONT VIEW
Scale: 1:5

Approved By: Morgan Sheehy
Rev.: A
Signed:

[Signature]
Date:

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPENG NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
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GENERAL NOTES

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Subframe to be constructed in mild steel.

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All fastenings must be **8.8 Grade Galvanised Steel Bolts**

All bolts joining vertical elements shall be M12 bolts in 14mm ϕ holes.

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FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

1. All steel to be prepared for painting as per Dulux preparation.

2. Coating System
1st Coat Zindanode 402
2nd Coat Duremax GPE
3rd Coat Weathermax HBR

3. Colour Brunswick Green - Dulux
TREE TO BE DRESSED WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT
SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT
CITY OF SYDNEY

DRAWING TITLE
8M TREE ISOMETRIC

CREATIVE DIRECTOR
JAMES DIVE

EXECUTIVE PRODUCER
KATE GOODEN

DATE
28/2/18

SCALE
1:50 @ A3

DRAWING No.
8MT005

DRAWING BY
SAM HOBBS

CONSULTING DESIGNER
SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

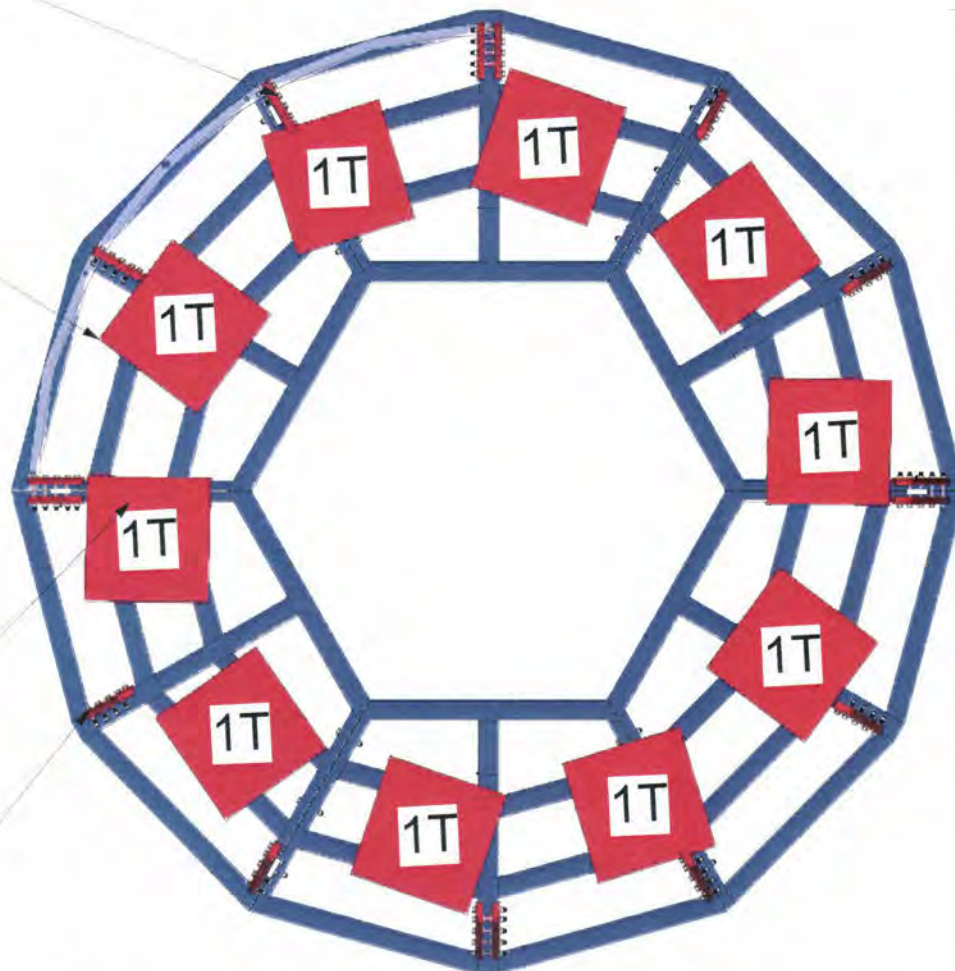
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EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734

Ballast base segments constructed in 100MM X 1000 X 4MM SHS AND 100mm x 50mm x 4mm RHS

Base for the 8m tree will require 10 tonnes of ballast distributed with one tonne concrete blocks evenly distributed around base perimeter

Segments of Ballast Base to be bolted to together with M16 bolts to be used thru 18mm ϕ holes

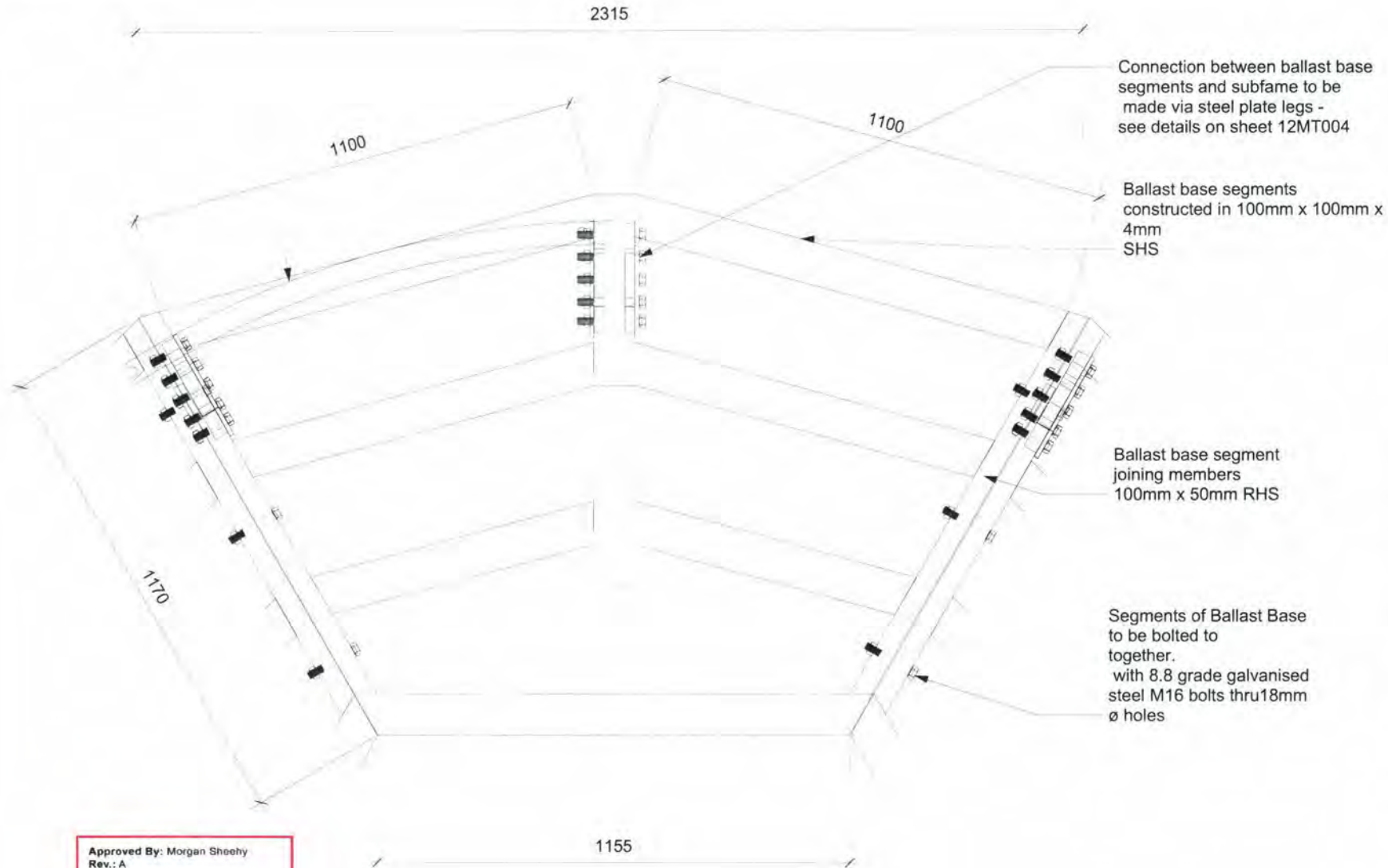
Connection between ballast base segments and subframe to be made via steel plate legs - see details on sheet 8MT004



1

8M TREE BALLAST BASE
Scale: 1:25

Base plate of
subframe to sit here.



GENERAL NOTES

STEEL
Subframe to be constructed in mild steel.

FASTENINGS
All fastenings must be
8.8 Grade Galvanised Steel Bolts

All bolts joining vertical elements shall be M12 bolts in 14mm ø holes.

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FINISHES - See Appendix 001 for full specification ex Dulux. Specification no. NSW-180059/A

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TREE TO BE DRESSED
WITH FROND PANELS
SEE SHEETS TRF001, TRF002

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CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

8M TREE ISOMETRIC

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

28/2/18

SCALE

1:50 @ A3

DRAWING No.

8MT006

DRAWING BY

SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 4 19 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING
17-19 O'Connell St.
Chippendale NSW 2008
ph: 02 9690 1734

Approved By: Morgan Sheehy
Rev.: A
Signed:

Date: 20.03.18

Morgan Sheehy
MEng (Hons I) Tech Cert Eng (Civil)
MIEAustCPEng NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

10. Christmas Tree - 8 Metre Tree Dressing

1

Customs House Tree Dressing Diagram 8m

Scale 1:100

Basic Dimensions

Overall Size: 8m x 4m

Star: 0.8m x 0.8m

Baubles: 300mm Dia x 6 kinds

Flower Bursts: 150mm Dia x 8 kinds

Ribbon: Sinamay 250mm width @ approx 0.8m
Diagonal centres

Sinamay Ribbon

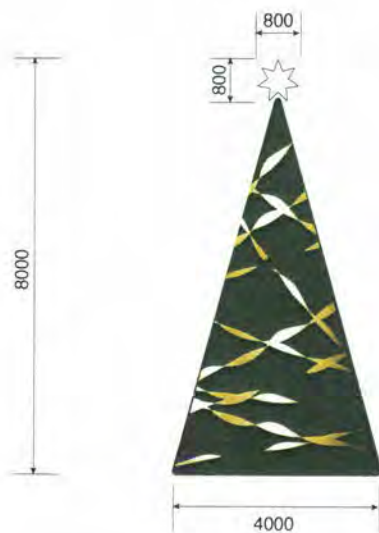
Ribbon to wrap tree in an organic undulating pattern pushing deep into the tree intermittently and re-emerging as it travels to the top.

Quantities

Baubles: Total 150 (25 x 6 kind)

Flowers Bursts: Total 800 (100 x 8 kind)

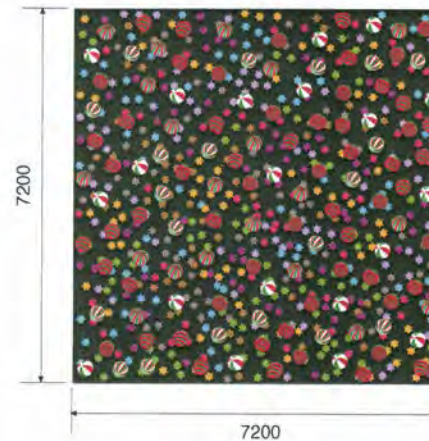
Ribbon: Approximately 90 linear metres



Average density and distribution of decorations over 7200mm²

120 Baubles / 6 kind

640 Flowers / 8 kind



KEY

- | | | | |
|--|------------------------------|--|------------------------------------|
| | 300mm Dia Bauble (Design 01) | | 150mm Floral 01 (Kangaroo Paw) |
| | 300mm Dia Bauble (Design 02) | | 150mm Floral 02 (Red Waratah) |
| | 300mm Dia Bauble (Design 03) | | 150mm Floral 03 (Bottle Brush) |
| | 300mm Dia Bauble (Design 04) | | 150mm Floral 04 (Paper Daisy) |
| | 300mm Dia Bauble (Design 05) | | 150mm Floral 05 (Wattle) |
| | 300mm Dia Bauble (Design 06) | | 150mm Floral 06 (wild Gum Blossom) |
| | | | 150mm Floral 07 (Flannel Flower) |
| | Sinamay Ribbon 250mm W | | 150mm Floral 08 (Isopogon) |

10. Christmas Tree - 12 and 8 Metre

Artificial Christmas Tree Warehouse



Hylton - Artificial Xmas Tree Warehouse

Indicative tree available from the Artificial Xmas Tree Warehouse, 12 Mary Parade Rydalmere NSW 2116 AUSTRALIA

Available in 12 and 8 metre sizes

The Paramount outdoor Christmas tree comes with an Australian Structural Engineers Certificate.

10. Christmas Tree - 12 and 8 Metre

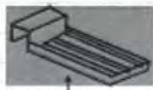
Indicative Structural Drawing
6 metre Paramount

2) FRAME LAYOUT DETAILS FOR METAL FRAME OF 6 Metre OUTDOOR PARAMOUNT SPRUCE

TOP OF FRAME SECTION (T 2)
(HOLDS THE TOP OF FRAME TOGETHER
AND SEATS THE TOP 1 m OF TREE
BRANCHES)
N.W. : 3.2 KGS
1 PIECE



TRAY FOR TRANSFORMER
N.W 0.70 KGS.
TOTAL 3 PCS.
TOTAL N.W. 2.10 KGS.



**SPECIAL VERTICAL BEAMS
FOR TOP LAYER (V 1)**
FOR EACH BEAM :
LENGTH 90 CM.
N.W. : 6.8 KGS.
TOTAL 6 PCS.
TOTAL N.W. 40.8 KGS.



BOLT (3/8" x 1") + NUT 3/8" (GALVANIZED)
TOTAL 320 SETS + 40 SPARE SETS
N.W.
USE #17
SPANNER TO TIGHTEN



**MAIN (MIDDLE) VERTICAL
BEAMS (V 2)**
FOR EACH BEAM :
LENGTH 118 CM.
N.W. : 8.2 KGS.
TOTAL 18 PCS.
TOTAL N.W. 147.60 KGS.



**SPECIAL VERTICAL BEAMS
FOR BOTTOM LAYER (V 3)**
(one beam to be inserted into
each metal leg 6M-OD1)
LENGTH 122 CM.
N.W./PC = 8.96 KGS.
TOTAL N.W. 53.8 KGS.
TOTAL 6 PCS.



**ATTACHMENT CLIP FOR
HANGING BRANCH SECTIONS**
(1 CLIP per BM-XX branch section)



TOTAL 34 PCS.

**6 pcs X METAL LEG (6M-OD1)
TO BOLT ONTO CENTRAL RING 6M-OD2
TO FORM OUTDOOR BASE**
(then one V3 beam to be inserted into
the vertical channel on the end of each 6M-OD1 leg)

N.W./PC = 29.1 KGS. TOTAL N.W. 174.6 KGS.
TOTAL 6 PCS.



CENTRAL HEXAGONAL RING (6M-OD1) FOR OUTDOOR BASE
N.W./PC = 10.2 KGS.

CURVED HORIZONTAL BEAMS

THERE ARE 2 TYPE OF HORIZONTAL BEAMS - ONE WITHOUT METAL
BOXES, AND ONE WITH METAL BOXES - PART NUMBERS ARE
SHOWN ON THE BACK OF THE BEAMS.



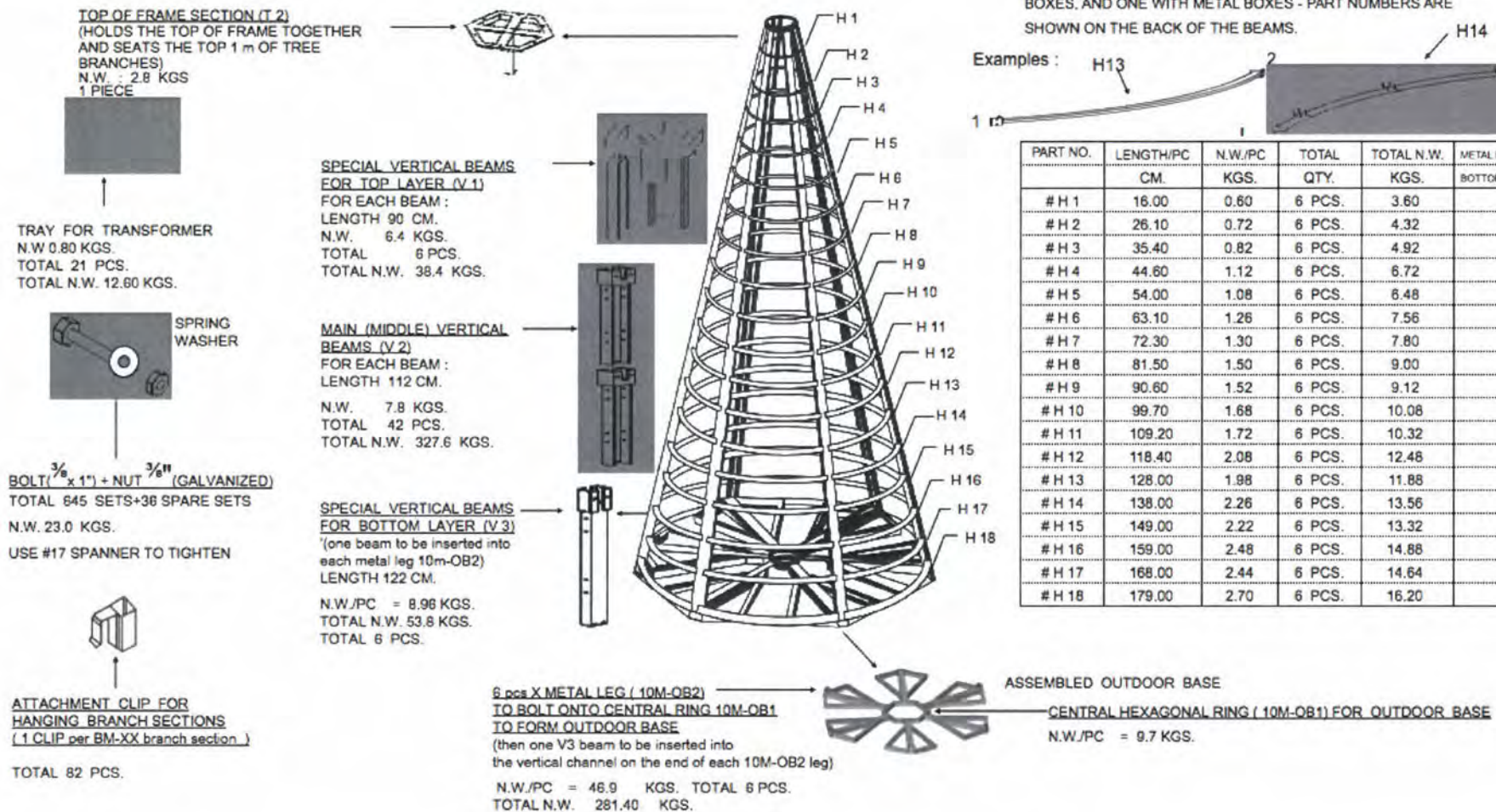
PART NO.	LENGTH/PC CM.	N.W./PC KGS.	TOTAL QTY.	TOTAL N.W. KGS.	METAL BOXES TO HOLD BOTTOM OF BM- POLE
# H 1	16.00	0.70	6 PCS.	4.20	-
# H 2	26.10	0.88	6 PCS.	5.28	4
# H 3	35.40	0.94	6 PCS.	5.64	-
# H 4	44.60	1.24	6 PCS.	7.44	6
# H 5	54.00	1.34	6 PCS.	8.04	-
# H 6	63.10	1.58	6 PCS.	9.48	7
# H 7	72.30	1.68	6 PCS.	10.08	-
# H 8	81.50	1.84	6 PCS.	11.04	8
# H 9	90.60	2.02	6 PCS.	12.12	-
# H 10	99.70	2.40	6 PCS.	14.40	9
TOTAL				87.72	

10. Christmas Tree - 12 and 8 Metre

Indicative Structural Drawing

10 metre Paramount

2) LAYOUT DIAGRAM FOR METAL FRAME OF 10 METRE OUTDOOR PARAMOUNT SPRUCE



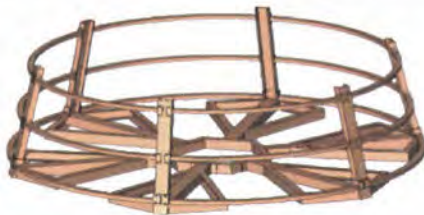
11. Christmas Tree - 12 and 8 Metre Base

OUTDOOR BASE - WHEN FULLY ASSEMBLED



CONCRETE BLOCKS (or equivalent weighted item such as cement bags, cement bricks, metal etc) TO THEN BE PLACED ON EACH LEG OF THE BASE AS CLOSE AS POSSIBLE TO THE OUTSIDE BUT NOT SO CLOSE AS TO INTERFERE WITH THE HORIZONTAL AND VERTICAL BEAMS THAT BOLT ONTO THE BASE (see below)

OUTDOOR BASE - WHEN FULLY ASSEMBLED AND FIRST VERTICAL BEAM LAYER (V3) AND FIRST 3 HORIZONTAL BRAM LAYERS ARE ADDED



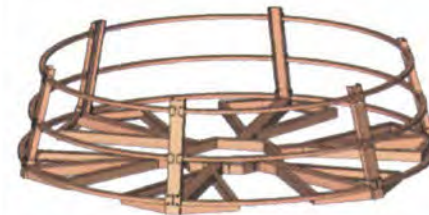
THE OUTDOOR BASE IS SHOWN ABOVE WITH VERTICAL (V3) AND HORIZONTAL BEAMS (H10, H9 and H8 - FROM BOTTOM TO TOP) ATTACHED TO THE BASE AS THE FRAME THEN BUILT UP

Paramount 6 metre Base

OUTDOOR BASE - WHEN FULLY ASSEMBLED



CONCRETE BLOCKS (or equivalent weighted item such as cement bags, cement bricks, metal etc) TO THEN BE PLACED ON EACH LEG OF THE BASE AS CLOSE AS POSSIBLE TO THE OUTSIDE BUT NOT SO CLOSE AS TO INTERFERE WITH THE HORIZONTAL AND VERTICAL BEAMS THAT BOLT ONTO THE BASE (see below)

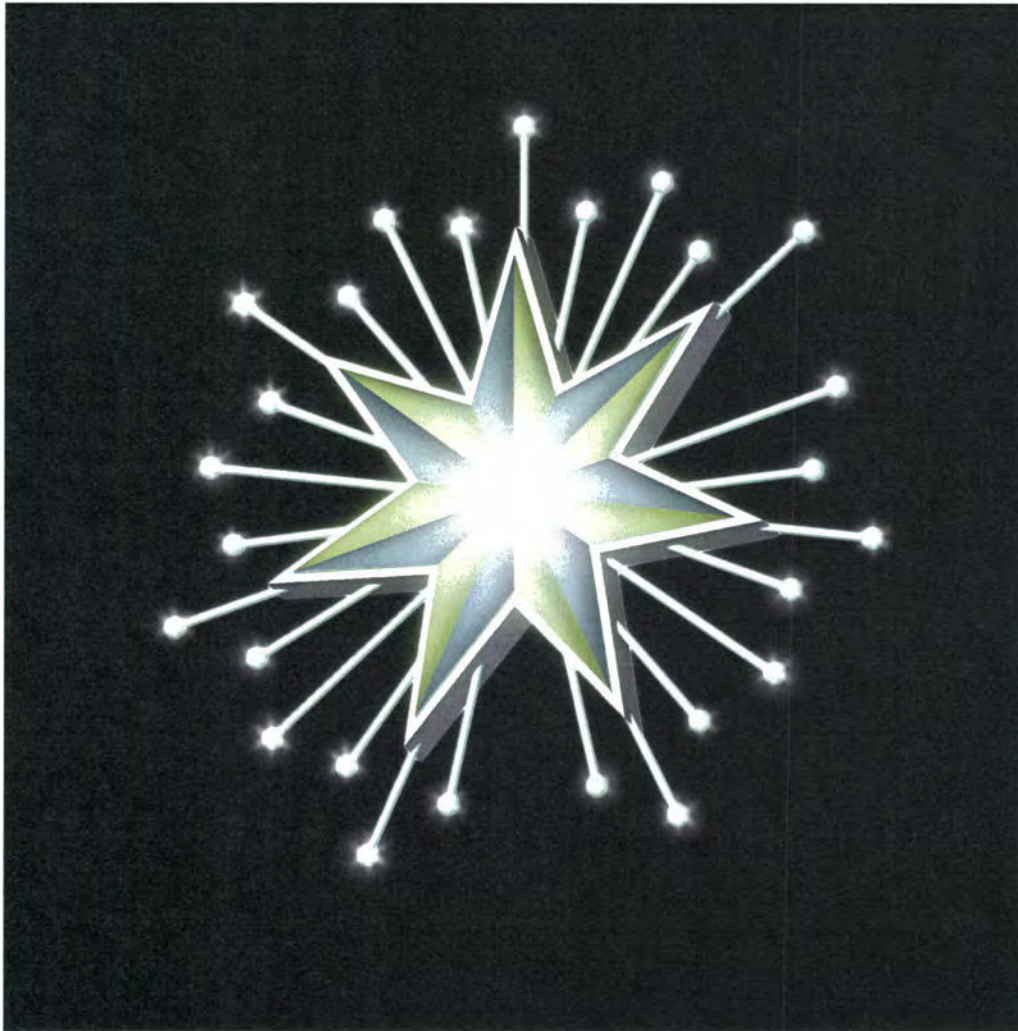


OUTDOOR BASE WITH VERTICAL (V3) AND HORIZONTAL BEAMS (H18, H17 and H16) ATTACHED, AS THE FRAME IS THEN BUILT UP

Paramount 10 metre Base

10. Christmas Tree - 12 and 8 metre Tree

The Star



The star is to be constructed in aluminium and acrylic with illumination being provided in programmable RGB LED lights.

The lighting will be split between the body of the star, star burst rods and the star burst ends.

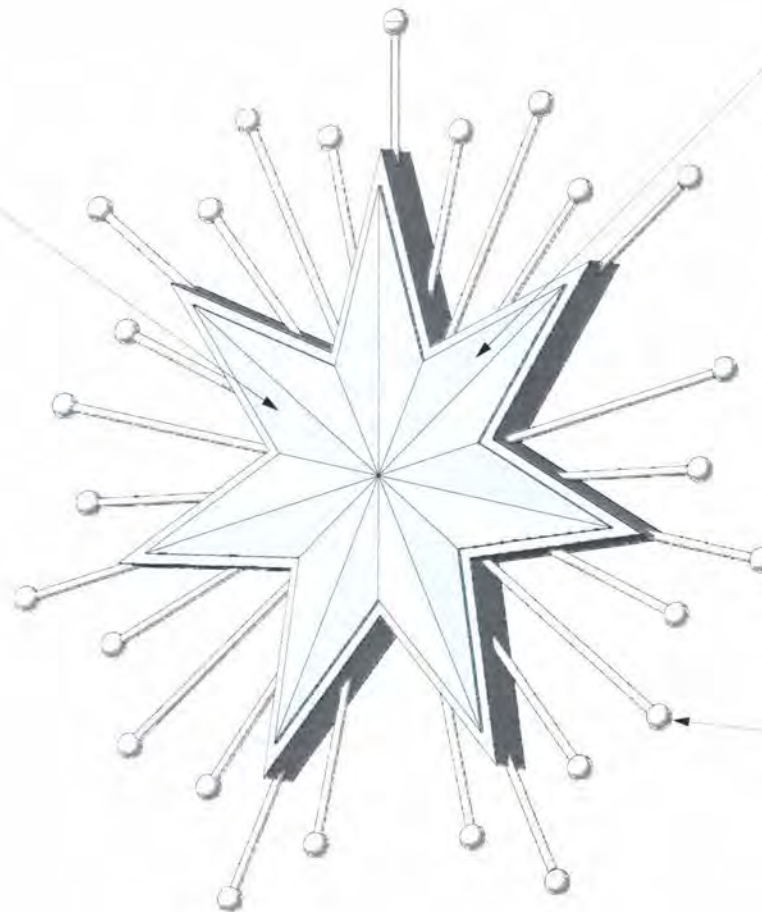
Please note that the following structural drawings relate to both the 12 metre and 8 metre Christmas tree Star.

NOTES

STAR TO BE MOUNTED
ON AN ALUMINIUM
STRUCTURAL SUBFRAME
DRAWINGS AND DETAILS
TO FOLLOW

NB THIS DESIGN TO BE USED
FOR 8 METRE TREES AT A
REDUCED SCALE
- OVERALL APPROXIMATE
DIMENSION 800MM X 800MM

STAR TO BE
ILLUMINATED WITH
PROGRAMMABLE RGB
LED LIGHTING



FACETS OF STAR
IN ALTERNATE
COLOURS OF 12MM
PLEXIGLASS SATINICE
DETAILS TBA
LAMINATED TO 6MM
OPAL ACRYLIC
SUBSTRATE

STAR BURST RODS TO
CONSIST OF
10 MM ALUMINIUM ROD
WELDED TO SIDE OF
STAR
DRESSED WITH
PROGRAMMABLE RGB
LED STRIP LIGHT
AND CLEAR ACRYLIC
TUBE

END BAUBLE WITH
PROGRAMMABLE RGB
LIGHT
AND DRESSED WITH
CLEAR ACRYLIC
SPHERE

1

12MST 001

12 M TREE STAR
Scale: 1:10

scoundrel

3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

12M TREE STAR

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

28.02.18

SCALE

1:10 @ A3

SHEET No.

12MST 001

DRAWING BY

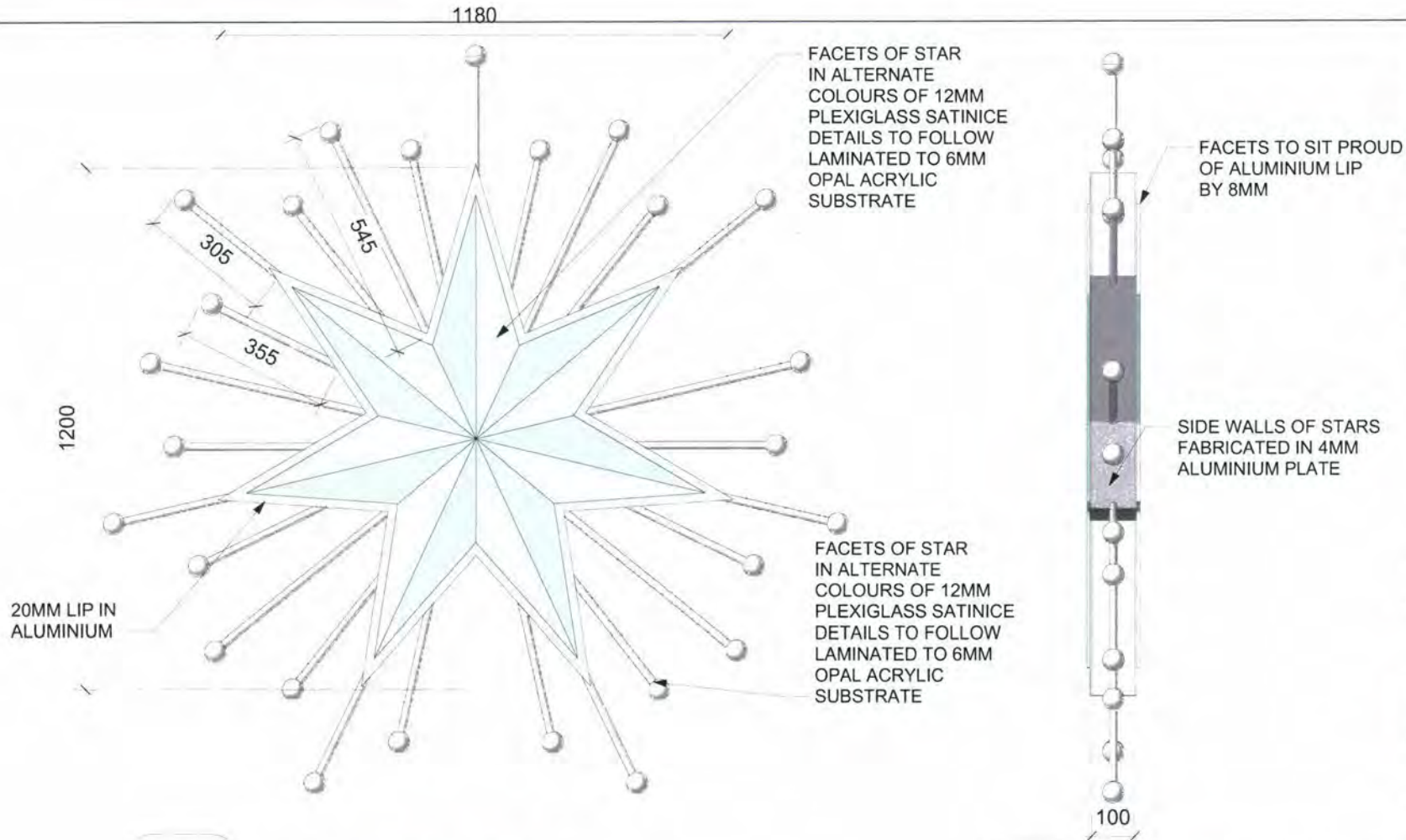
SAM HOBBS

CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING
17-19 O'Conner St.
Chippendale NSW 2008
ph: 02 9690 1734



NOTES

STAR TO BE MOUNTED ON AN ALUMINIUM STRUCTURAL SUBFRAME DRAWINGS AND DETAILS TO FOLLOW

NB THIS DESIGN TO BE USED FOR 8 METRE TREES AT A REDUCED SCALE - OVERALL APPROXIMATE DIMENSION 800MM X 800MM DRAWINGS AND DETAILS TO FOLLOW

DRAFT ONLY
NOT FOR CONSTRUCTION

scoundrel

3 LITTLE QUEEN ST
CHIPPENDALE NSW 2008
AUSTRALIA
+61 2 8287 8800

PROJECT

SYDNEY CHRISTMAS
INFRASTRUCTURE DESIGN

CLIENT

CITY OF SYDNEY

DRAWING TITLE

12M STAR PLAN/ELEVATIONS

CREATIVE DIRECTOR

JAMES DIVE

EXECUTIVE PRODUCER

KATE GOODEN

DATE

28.02.18

SCALE

1:10 @ A3

SHEET No.

12MST002

DRAWING BY

SAM HOBBS

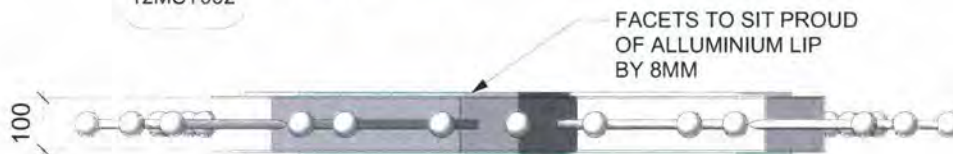
CONSULTING DESIGNER

SAM HOBBS
samhobbsproductiondesign.com
+61 419 981 781

CONSULTING ENGINEER

EVENT
ENGINEERING
17-19 O'Conner St
Chippendale NSW 2008
ph 02 9690 1734

1
12 M TREE STAR FRONT VIEW
Scale: 1:10
12MST002



2
12 M TREE STAR PLAN
Scale: 1:10
12MST002

3
12 M TREE STAR SIDE VIEW
Scale: 1:10
12MST002

Approved By: Morgan Sheehy
Rev.: A
Signed:

Morgan Sheehy

Date: 20.03.18

Morgan Sheehy
MEng (Hons II) Tech Cert Eng (Civil)
MIEAustCPENG NER (Structural) RPEQ
Registered Building Practitioner VIC EC 41049
(Civil Engineer)
DIRECTOR - EVENT ENGINEERING
EVENT
ENGINEERING

scoundrel

11. CHRISTMAS TREE BARRIER

11. Christmas Tree Barrier

Present Sculpture Barrier - Option 01



Ultimately our Martin Place tree will need some form of fencing at the base. Rather than the fencing being an afterthought this concept proposes playfully creating a barrier using a ring of oversized presents.

Each present would incorporate TOKO design language as wrapping paper.

11. Christmas Tree Barrier
Present Sculpture Barrier - Option 01



Artist Impression - Wrapped Presents Barrier

11. Christmas Tree Barrier

Bauble Barrier Fence - Option 02

The barrier fence to surround the Christmas tree has been designed to be playful and whimsical, referencing the bauble designs present on the tree itself. The negative areas of the design (seen here in white) allow the viewer to see through the fence to the tree.

The idea is to create a physical, but not a visual barrier.

Two unique panels would be produced which cleverly tile to create a seamless montage of overlapping decorative baubles to encircle the Christmas tree.



11. Christmas Tree Barrier
Bauble Barrier Fence - Option 02



Artist Impression - Bauble Barrier Fence

scoundrel

APPENDICIES

A. 01 Dulux Paint Specification

duluxprotectivecoatings.com.au



SPECIFICATIONS FOR City of Sydney Christmas Infrastructure Design

Protecting Australasia's assets.



City of Sydney Christmas Infrastructure Design

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Quality Assurance Reports

Project Address: Sydney, NSW
Specification Doc. No: NSW-180059
Version Number: 1
Prepared for: Sam Hobbs
Company: Scoundrel Projects
Phone: 0419 981 781
Email: blueyhobbs@gmail.com

Prepared by: Adam Hockey
Email: adam.hockey@dulux.com.au
Phone: 413040689
Reviewed by: Vijesh Mahara
Date of Issue: Sunday, 9 September 2018

City of Sydney Christmas Infrastructure Design Schedule of Coating Systems

Item	Substrate	Specification No.	Colour
Structural Steel for Christmas Tree	Mild Steel	NSW-180059 /A	To approved standard

Specification Document No. NSW-180059 /A

PROJECT: City of Sydney Christmas Infrastructure Design

SITE	Sydney, NSW
EXPOSURE	AS/NZS 2312.1:2014 Category C3 (medium corrosivity)
SUBSTRATE	Mild Steel
ITEM	Structural Steel for Christmas Tree
SCOPE	To provide very long term corrosion protection (AS/NZS 2312.1:2014 Table 6.3)

Surface Preparation

CLASS 2.5 BLAST: Remove grease, oil and all other contaminants in accordance with AS1627.1 with Gamlen CA 1 or equivalent (a free-rinsing, alkaline detergent) according to the manufacturer's written instructions and all safety warnings. Ensure that all soluble salts are removed in accordance with AS 3894.6 methods A&D. Grind off sharp edges to a 2 mm radius minimum. Power tool clean welds to AS1627.2 Class 2 to remove roughness. Remove weld spatter and slag. Dry abrasive blast clean in accordance with AS1627.4 to visual standard ISO8501-1, SA 2.5 Near White Metal. Remove all spent abrasive and dust preferably by vacuum or dry compressed air. Avoid handling blasted steel with bare hands. Inspect the surface prior to coating application to ensure neither surface defects nor contamination exist, otherwise rectification is required. Commence application within 4 hours and before the surface becomes recontaminated, otherwise repeat the abrasive blast cleaning step. Stripe coat welds, bolts, bolt holes, and all edges with primer before application of full primer coat.

TREATMENT OF SITE WELDS: Remove weld spatter. Power tool clean welds to AS1627.2 Class 2 to remove roughness. Remove filings, preferably by vacuum or compressed air. Prime welds immediately with the nominated primer before contamination can reoccur. Ensure the primer overlaps the sound coating by not less than 25mm or greater than 50mm. Apply intermediate and topcoat over the primed welds to match the surrounding coating system, overlapping the sound coating by 25mm - 50mm.

PROFILE: Minimum 30 microns. Maximum 50 microns

Coating System

	Material	Product	Catalyst	Data Sheet	Thinner	Application	% Vol Solids* Spread Rate	Film Build	WFT**	DFT*
1 st Coat	ZINCANODE 402	730-81386	978-63033	PC 122	EPOXY THINNER 920-08925	B, R, CS or AS	48% 6.40 m ² /l @ 75 µm	MIN (REC) MAX	155 µm 188 µm	75 µm 90 µm
							Min recoat time = 4 HOURS			
2 nd Coat	DUREMAX GPE	780-LINE	978-84577	PC255	EPOXY THINNER 920-08925	B, R, CS or AS	71% 5.8 m ² /l @ 125 µm	MIN (REC) MAX	280 µm MAX	200 µm
							Min recoat time = 8 HOURS			
3 rd Coat	WEATHERMAX HBR	770-Line	978-84593	PC 405	DUTHIN 040 965 42166	B, R, CS or AS	70% 7.0 m ² /l @ 100 µm	MIN (REC) MAX	110 µm 180 µm	75 µm 125 µm
							Min recoat time = 10 HOURS			
4 th Coat	None							MIN (REC) MAX		
							Min recoat time =	Max recoat time =		

AAS = Air Assisted Spray, AS = Airless Spray, B = Brush, CS = Conventional Spray, HVL = High Volume, Low Pressure Spray, R = Roller, T = Trowel

* If application is by brush or roller, further coats may be necessary to achieve the recommended DFT and full opacity

** WFT = thickness of wet paint required to achieve the specified 'Dry Film Thickness' assuming no thinner is added. # %Vol Solids is of untinted White or Light Base

Specific Recommendations and Comments

The Applicator shall maintain records in accordance with AS3894 Parts 10, 11, 12, 13 & 14 or as required by the Project Manager. These records shall be made available for inspection at any time by the Project Manager or authorised Representative and submitted to the Principal Contractor upon completion of work.

Where areas have been identified for "stripe coating" such as edges, corners, inside of drilled holes, welds etc they shall be applied by brush or roller, preferably in a contrast colour, prior to the application of the full coat.

All products must be applied strictly in accordance with this specification and relevant Product Data Sheets and SDS (available from www.duluxprotectivecoatings.com.au) by experienced applicators. The applicator must ensure that all colours supplied match the approved standard prior to commencement. Specification details (such as hardware choice) depend on climatic conditions at application time and should be reviewed with your Dulux Representative prior to application. The asset manager is responsible for verifying the presence of lead and determining whether to remove or encapsulate, if lead is present, a customized specification must be obtained from Dulux Australia, and the work done in strict accordance with AS 4381 Parts 1 and 2 and Worksafe Australia guidelines.

Dulux Contacts

PREPARED BY: Adam Hockey
REVIEWED BY: Vjesh Mahara
PHONE: 413040688
DATE: 09-Sep-16

Disclaimer

Any advice, recommendation, information, assistance or service provided by Dulux in relation to goods manufactured by it or their use and application is given in good faith and is believed by Dulux to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Dulux is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the rights, entitlements and remedies conferred upon any person or the liabilities imposed upon Dulux by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance rendering void or prohibiting such exclusion, limitation, restriction or modification. Reproduction of this specification must be in its entirety.

DULUX PROTECTIVE COATINGS SPECIFICATION

Project No.	NSW-180059
PROJECT	City of Sydney Christmas Infrastructure Design
Explanatory Notes	
1. This specification should only be carried out by applicators experienced in applying these products.	
2. This is an abridged specification and must be read and carried out according to the relevant product data sheets, detailed application instructions, Conditions of Specification, safety data sheets and relevant Australian Standards whether attached to this document or not.	
3. All products must be applied strictly in accordance with the this specification and relevant Product Data Sheets and SDS available from www.duluxprotectivecoatings.com.au .	
4. The applicator must ensure that all colours supplied match the approved standard prior to commencement.	
5. The use of a thinner other than that nominated herein must not be used without the written consent of your Dulux Protective Coatings Representative.	
6. The coating should be protected from the elements and contamination during coating cure to achieve optimum performance and aesthetics.	
7. System service life is dependent upon conditions.	
8. Pay particular attention to edges to prevent edge corrosion. Sharp edges must be mechanically ground off to a minimum of 2mm radius. Edges must be stripe coat coated to achieve recommended DFT for optimum service life.	
9. Select appropriate (non metallic) abrasives to provide the specific surface profile. This is ensures a good key for optimum coating adhesion.	
10. Practical spreading rates will vary from quoted theoretical figures depending on substrate roughness and porosity, overspray losses, application methods and environmental conditions (e.g. wind, temperature, humidity, etc).	
11. Application techniques should be adjusted, or additional coats applied, in order to achieve the specified DFT. Thus if application is by brush or roller, additional coats are usually required to achieve the specified DFT.	
12. Dry times apply to a single coat at 25°C and 50% Relative Humidity. Dry times are generally longer at lower temperatures and/or higher humidity.	
13. Do not apply paint if Relative Humidity is above 85% or if the surface temperature exceeds the maximum quoted on the technical data sheet or is within 3°C of Dew Point.	
14. Do not apply paint if the surface temperature is below 10°C or likely to fall below 10°C during the curing period unless otherwise stated, either in the data sheet or by your Dulux Protective Coatings Representative.	
15. Galvanised surfaces will rapidly form zinc corrosion products in coastal areas due to airborne chlorides and moisture, therefore whip blasting and painting should be carried out in shop wherever possible.	
16. The specification(s) in this document have been selected by Dulux as being suitable for this project based upon the information given to Dulux by the customer or customer's authorised agent at the time of issue. Changes to the exposure environment and conditions, or changes to chemicals or their concentration in contact with the coating(s) may also change the expected performance of the coatings specified.	
17. Specification details (such as choice of hardener) depend on several assumptions (such as climatic conditions at time of application). Dulux suggests that you review this specification with your Dulux Representative prior to application.	
18. The asset manager is responsible for verifying the presence of lead and determining if removal or encapsulation is justified; if lead is present, a customised specification must be obtained from your Dulux Protective Coatings Representative, and the work carried out in strict accordance with: AS 4361 Parts 1 and 2 and Worksafe Australia guidelines.	
Additional Notes common to all Specifications for this Project	
The coating shall be free from sagging, streaking, runs, dry spray, mud cracking and foreign bodies when viewed by the naked eye	
Dulux Contacts	
PREPARED BY:	Adam Hockey
REVIEWED BY:	Vijesh Maharaaj
PHONE:	413040688
DATE:	09-March-2018
Disclaimer	
Any advice, recommendation, information, assistance or service provided by Dulux in relation to goods manufactured by it or their use and application is given in good faith and is believed by Dulux to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Dulux is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the rights, entitlements and remedies conferred upon any person or the liabilities imposed upon Dulux by any condition or warranty implied by Commonwealth, State or Territory Act or ordinance rendering void or prohibiting such exclusion, limitation, restriction or modification.	
DULUX is a Quality Endorsed Company - International Standards ISO9001, ISO9002 & Australian Standards AS3901, AS3902.	
DuluxGroup Australia Pty Ltd. A.B.N. 67000049427	

General Conditions Of Coating Specification

1.0.0	DEFINITIONS
Applicator	Means the applicator or painter who applies the Dulux coatings
Builder	Means the person to whom the Applicator is contracted to for the application of the Dulux coating for the project.
Dulux	Means Dulux Protective Coatings, a business of Dulux Australia Pty Ltd.
Inspector	Means an independent, qualified inspector appointed by the Builder and / or Dulux who inspects and reports to the owner / project manager on protective coating matters as pursuant to this Specification.
Owner	Means the owner of the project
Project	Means the project described in this document
Specification	Means this document and the Coating Systems within this document, any annexure and schedules.
Project Manager	Means a nominated representative of the Builder
Engineer	An Authorised representative of the Owner or his / her nominee
"Shall"	Indicates a mandatory instruction
1.1.0	ABBREVIATIONS:
ACA	Australasian Corrosion Association
AS	Australian Standard
AS/NZS	Australian-New Zealand Standard
DFT	Dry Film Thickness
EPA	Environment Protection Authority
ITP	Inspection and Test Plan
MSDS	Material Safety Data Sheet
NATA	National Association of Testing Authorities
QA	Quality Assurance
ppm	Parts Per Million
TDS	Total Dissolved Solids
µm	Micron
SA	Standards Australia
NACE	National Association of Corrosion Engineers (USA)
SSPC	The Society for Protective Coatings (USA)
1.2.0	REFERENCED STANDARDS:
All works shall be carried out to conform to the latest relevant Standards and Codes of practice of the Standards Association of Australia (SAA) or, where such do not exist, the International Standard Organisation (ISO), NACE, SSPC or other approved standards.	
Standard Number or Designation	Title
AS 1318	SAA Industrial Safety Colour Code
AS 1345	Identification of the contents of Piping, Conduits and Ducts
AS 1580	Paints and Related Material – Methods of Test
AS 1627	Metal Finishing – Preparation and Pre-treatment of Surfaces, Parts 1 – 9
AS 1940	Storage And Handling of Flammable and Combustible Liquids
AS 2310	Glossary of Paint Terms
AS 2311	Guide to the Painting of Buildings
AS/NZS 2312	Guide to the Protection of Iron and Steel against Exterior Atmospheric Corrosion
AS 2700	Colour Standards for General Purposes
AS 3750	Paints for Steel Structures
Parts 0 to 9	
AS 3894	Paints and Related Materials – Methods of Test
Parts 0 to 14	
AS/NZS 3750.15	Inorganic Zinc Silicate paint
AS/NZS 4680	Hot Dip Galvanised (Zinc) Coatings on Fabricated Ferrous Articles
NACE No 5 / SSPC SP 12	Cleaning of Steels and other Hard Metals by High and Ultra High Pressure Water Jetting

The above list of Standards is produced as a guide to referenced materials and is not necessarily complete.

2.0.0 PRODUCT USE and SAFETY:

2.0.1 Coatings contain ingredients that can be flammable or potentially harmful if they are used without Personal Protective Equipment (PPE) or if the products are used without knowledge or care.

2.0.2 This specification must be read in conjunction with Dulux published Technical Literature, the appropriate product data sheets, Material Safety Data Sheets, Conditions of Specification and mentioned Australian Standards whether attached to this document or not.

2.0.3 The Contractor shall have available at the workplace both Dulux Product Data Sheets and MSDS Sheets for the products named in this specification.

2.0.4 Mix and apply all of the products named in this specification to Dulux published instructions.

2.0.5 If you do not understand the instructions for mixing, use or safe handling of the products, contact the Dulux Protective Coatings Representative in your area before mixing or using the products.

2.0.6 Statutory health and safety regulations shall be followed at all times and all environmental regulations observed.

2.0.7 Attention must be paid to all warning labels attached to the coating and related product cans and the relevant technical data literature. Procedures are to be in place to comply with these directions.

2.0.8 Adequate ventilation must be provided at all times to remove solvent vapours from the area in conformity with Occupational Health legislation.

2.0.9 Spark proof equipment and tools shall be used.

2.0.10 Spray and blast cleaning equipment shall be earthed to eliminate any electrostatic charge.

2.0.11 Non smoking and Flammable Liquid signs shall be displayed and suitable fire fighting equipment be readily available at the work site.

3.0.0 GENERAL:

3.0.1 The Applicator shall provide all paint materials, abrasives, equipment, instrumentation, labour, supervision, quality assurance and any other materials required to complete all work tasks as required within the specification document. Where required, the applicator shall also hold a current Environmental Operating Licence.

3.0.2 Work deemed by the Inspector or Engineer as non-conforming to the specification shall be corrected to conform to the original specification. Rectification work is to the Applicators account.

3.0.3 Applicator shall provide adequate protection of the coating against damage and or exposure until fully cured. Areas requiring remedial work shall be recorded and subsequent repairs carried out as per the Specification to the Applicators account. Bolting flanges of structural members may damage coating and reference to maintenance of these areas shall be addressed.

3.0.4 Transportation methods, handling and storage of coated structures, which are to be transported, should be clearly defined. The responsibility for repairs of damage incurred in these operations should be detailed within any Tender Documents or these arrangements should be discussed at the pre-contract meeting.

3.0.5 Dulux Coatings nominated herein shall be applied strictly in accordance with this Specification.

3.0.6 Coatings must be stored in a cool shady place and delivered to site in the original unopened containers.

3.0.7 Coatings shall be applied by pre-qualified applicators approved by Dulux referred to in this specification as "The Applicator".

3.0.8 It is the Applicator's responsibility to ensure that they are fully conversant with all aspects of the Specification and to clarify any doubts in writing prior to the commencement of surface preparation and coating work. Further, to establish from the designer, builder, etc the project colour or colours and confirm the correct colour is supplied and applied.

3.0.9 The Project Manager will convene a pre-contract meeting prior to the commencement of the work and will ensure a representative of the Builder and the Applicator are present. Dulux shall be represented at the meeting, which shall have an open agenda to resolve any matter likely to affect the quality or performance of the Dulux protective coating system. The following topics shall be reviewed and agreed: -

- The Coating Specification
- Site Safety & Permit to Work (hot & cold)
- Emergency Evacuation, Assembly Points, First Aid
- Lines of communication: Contractor, Inspector, Project Manager, Owner
- ITP Hold Points
- Inspection methods and equipment to be used
- Coating repair
- Warranties, if applicable
- Site Transport Regulations, Security Issues, Drug & Alcohol Policy

3.0.10 In the event of the Builder or Applicator becoming aware of a conflict in the Specification, he shall immediately arrange for the Project Manager to be advised in writing of the alleged conflict. After receipt of such a notice the Project Manager may consult with Dulux and shall issue directions as to the interpretation to be followed when carrying out the work.

3.0.11 If the Dulux product data sheet published instructions contradict the above, please contact the Dulux Protective Coatings representative in your area for a determination and written confirmation.

4.0.0 EQUIPMENT:

4.0.1 All equipment used by the Applicator including, but not necessarily limited to, ladders, scaffold, compressors and electrical and pneumatic equipment shall conform to the requirements in force by the appropriate statutory Acts, regulations and by-laws and shall be properly maintained and used in strict accordance with any safety regulations, procedures or requirements pertaining to them.

4.0.2 Equipment used for surface preparation and painting, including dust collectors, air compressors, extraction equipment, lifting devices, etc. shall conform to the relevant Standards for safety and performance.

4.0.3 Air supply hoses, paint material hose, abrasive blast host and couplings shall be of the anti-static type and shall be safety wired using "whip check" harness and safety clips as applicable for the intended use and pressures of the line and hose.

4.0.4 Conventional air spray equipment and air compressors used for blasting, cleaning and spray painting shall have oil and moisture separators with properly maintained filters in the airlines. Oil carry-over tests shall be performed prior to the start of blasting and coating application and on a weekly basis thereafter and the results recorded. Airless spray equipment can be fitted with oil vapour dispensers at the air inlet if required by the manufacturer.

4.1.0 HIGH-PRESSURE WATER JETTING EQUIPMENT FOR SURFACE PREPARATION

4.1.1 Operators who have received specific training in the equipment use and work methods of High-Pressure Water Cleaning and Water Jetting shall be permitted to carry out this work.

4.1.2 Operators shall wear additional Water Jetting PPE to normal issue PPE and it shall afford protection to hands, legs, feet, legs, torso, ears, eyes and head.

4.1.3 Operators shall recognise the surrounding equipment and processes and shall establish permits for work and washing water disposal before commencing the work. Washing water shall be potable and all water used in any surface preparation or cleaning should be filtered through appropriate medium prior to disposal to drain. If the contaminants are of a nature which cannot be removed from the water on site then the operator shall utilise suitable containment methods that will hold all wastes for later disposal at a licensed contaminated waste disposal site.

4.1.4 Quotations for surface preparation by High-Pressure and Ultra High-Pressure water jetting equipment shall contain a method statement for equipment operation which shall include a section on Safety Precautions to cover operators as well as others in the general work area.

4.1.5 Location and contact details of the nearest Specialist Medical Facility or Medical Practitioner, skilled in the treatment of water injection injuries, shall be nominated as the emergency contact, if required.

4.1.6 High-pressure water cleaning equipment used for any maintenance painting will be capable of producing up to a minimum of 1000 bar (15,000 psi) at the cleaning nozzle. Specific coatings and certain procedures may require higher or lower pressures and these shall be specified separately in the Specification for that project. Refer to the applicable specification for specific requirements.

4.2.0 PERSONAL AIR SUPPLY/BREATHING EQUIPMENT:

4.2.1 Where personal breathing equipment is used, the operator's hood or headgear shall be ventilated by clean, cool, oil free air served through a regulator filter. Air supply to the operator must be free of hydrocarbon vapour, oil and dust particulate and be of breathing air quality.

5.0.0 SURFACE PREPARATION-METALS & ALLOYS:

5.0.1 All surface defects, including cracks, laminations, deep pitting, weld spatter slag, burrs, fins, sharp edges and other defects, shall be removed prior to the preparation of the surface to be coated.

5.0.2 Temporary welds shall be ground to a flat finish. Weld porosity, if not deemed defective welding, shall be filled with two-component epoxy filler – putty that is compatible with the specified coating system.

5.0.3 All edges shall be de-burred and rounded to a minimum 2mm radius.

5.0.4 Surface contaminants such as oil, grease, dirt and loose particles, must be removed in accordance with Australian Standard AS1627.1, using an alkaline oil emulsifier/ degreaser such as Gamlen CA No.1 or as approved by Dulux.

5.0.5 Surfaces shall be prepared to the finish standard required in accordance with Australian Standard AS1627 parts 1-9 as specified.

- 5.0.6 Spent abrasive, old coating, corrosion product etc. shall be removed from the surface by blowing with clean, dry air and/or by vacuum cleaning.
- 5.0.7 Inspect for particulate contamination to AS/NZS 3894.6 method C and designate the appropriate value as Rating 1 to 5 as per the standard.
- 5.0.8 Surfaces that become contaminated by flash rusting shall be re-prepared to the original specified standard before coating.
- 5.0.9 Coatings contaminated with abrasive or other foreign matter will not be allowed.
- 5.1.0 ABRASIVES:**
- 5.1.1 All abrasives shall be selected in accordance with Australian Standard AS1627 and used in compliance with all statutory Health and Safety legislation and site requirements.
- 5.1.2 Abrasives suitable for cleaning include - Chilled Iron Grit for enclosed blasting operations and Garnet for open blasting and site blasting. Only Garnet shall be used for abrasive blast preparation of Stainless Steels.
- 5.1.3 Abrasives are to be dry, angular, and free from oil, grease, dust and foreign matter. The abrasive selected shall be suitably graded to provide the surface profile specified.
- 5.1.4 Clean used Garnet may be re-cycled and used for an initial blast to remove mill scale and surface contamination but only new Garnet shall be used for the final blast prior to coating application.
- 5.2.0 BLAST PROFILE:**
- 5.2.1 The Profile or Anchor Pattern is to be measured using an agreed standard or instrument in compliance with Australian Standard AS/NZ 3894.5.
- 5.2.2 At the commencement and finish of blasting, a surface profile (as detailed in the specification) shall be produced and measured according to AS/NZS 3894.5 Method A. Re-blasting of carbon steel (mild steel) to remove old coatings will generally result in a lower surface profile on subsequent treatments.
- 5.2.3 Recorded surface profile shall be measured by surface replication (Testex) tape to take a permanent record of the achieved blast profile and these records shall be added to the daily work record report sheet AS 3894.12
- 5.2.4 Corrosion pitting or areas of significant metal loss and defects that are exposed by the blasting process shall be referred to the owners representative for inspection and passed "fit for service" before proceeding with the coating system.
- 5.2.5 Apply the Protective Coating system within four (4) hours of blast cleaning or in any case before visual tarnishing of the steel occurs. Surfaces left longer than four (4) hours shall be re-blast cleaned before coating. Surfaces that develop visual tarnishing (red rust or black spots) at any time before coating shall be re-washed down with fresh water dosed with an approved chloride neutralizing solution and re-blast cleaned prior to coating.
- 5.3.0 RESIDUAL SURFACE SALTS:**
- 5.3.1 Surfaces that are to be abrasive blast cleaned shall be tested for the presence of soluble salts in accordance with AS 3894.6.
- 5.3.2 Test results for surfaces that show a soluble salt level above 50 ppm shall require that the total surface area be again washed down with high-pressure water cleaning equipment using fresh water that has been dosed with an approved chloride neutralizing solution. The dilution shall be according to the manufacturer's written instructions. The surface shall then be re-blast cleaned, as per this specification and the surface shall then be re-tested for soluble salts.
- 5.3.3 Carry out testing for soluble salts out early in the blasting work so that removal procedures can be initiated before the blasting is completed. Refer AS3894.6
- 5.4.0 METALLIC SALT REMOVAL:**
- 5.4.1 Surfaces of components, which have been in immersion service in environments such as seawater or tank linings, are likely to produce ferrous or metallic salts on the surface by way of the corrosion process. These components shall be treated in accordance with AS 3894.6 before proceeding with surface preparation and coating.
- 6.0.0 COATING USE & APPLICATION GUIDELINES:**
- 6.0.1 Coatings shall be mixed thoroughly using powered agitators driven by air motors.
- 6.0.2 Multi-component coatings shall be combined as whole pack units. Partial mixing of component packs shall only be done where the applicator can use accurate measuring or weighing tools and is fully understanding of the mix ratios.
- 6.0.3 Addition of thinners (reducers) shall be strictly as per the Dulux product data sheet for the specified product. Only use Dulux solvents in Dulux Coatings.

- 6.0.4 Prior to the spray application of each coating all edges, bolts and boltholes (including slots) shall be stripe coated by brush method. The underlying surfaces of replacement bolting, washers and nuts shall be prime coated prior installation. This will achieve adequate D.F.T. at areas previously known for initial coating failure.
- 6.0.5 Replacement bolting shall have washers installed at head and nut areas.
- 6.0.6 Completion of all joins and or mating surfaces shall be sealed with a suitable sealant such as Dulux Luxepoxy Filler or Selleys Pro-Series polyurethane sealant to help promote coating life.
- 6.0.7 Do not apply the coating if the surface temperature is within 3°C of the dew point.
- 6.0.8 Do not apply the coating if the surface temperature is less than 10°C.
- 6.0.9 Do not apply the coating if the substrate temperature exceeds the maximum quoted on the technical data sheet.
- 6.0.10 Do not apply the coating if the relative humidity is greater than 85%.
- 6.0.11 Do not apply the coating if the weather is clearly deteriorating or unfavourable for application or curing.
- 6.0.12 Do not apply the coating in high wind conditions.
- 6.0.13 Do not stand the coating in direct sunlight before mixing or adding the converter (catalyst).
- 6.0.14 Do not apply the coating if the surface preparation standard has not been achieved or if the time between surface blast cleaning and the commencement of coating exceed 4 hours or if visual tarnishing or black spots develop on the surface of the metal.
- 7.0.0 INSPECTION and QUALITY ASSURANCE**
- 7.0.1 Applicator shall have in place and use a Quality Assurance system that conforms to ISO 9000 Quality Standards.
- 7.0.2 Persons qualified, as NACE Certified Coating Inspectors or ACA Certified Coatings Technician under direction of a NACE Inspector shall be nominated by the Applicator as the applicator's quality assurance officer for this part of the Works.
- 7.0.3 The Applicator shall maintain proper records as required by the Specification in accordance with Australian Standard AS3894 Parts 10,11, 12, 13, and 14 and any additional records as required by the Project Manager. Such records shall be available for inspection at any time by the Project Manager or the authorised representative and become the property of the Principal Contractor upon completion of the Applicator's obligation or as directed by the Project Manager.
- 7.0.4 In addition to the Applicator's Coating Inspector, Dulux recommend that prior to the contract being let, an independent Coating Inspector shall be nominated and funded by the Builder or Owner to carry out quality audits as required by the contract and in accordance with ISO9000 Quality Management Systems. The independent inspector shall report to the Project Manager or Builder and be appointed for the duration of the works.
- 7.0.5 It is the responsibility of the Applicator to advise the inspector in sufficient time to enable him to be present without causing unnecessary delay or hindrance to the progress of work.
- 7.0.6 The absence of the inspector does not absolve the Applicator from carrying out the task in a workmanlike manner and in accordance with this specification. Detailed records shall still be required to be kept by the applicator
- 7.0.7 Defects noted by the inspector shall be reported in writing with a copy to the Project Manager and the Applicator.
- 7.0.8 Work deemed by the Project Manager or his authorised inspector as not conforming to this specification or subsequently approved variations, shall be corrected to the satisfaction of the Project Manager or the authorised inspector, at the Applicator's expense.
- 7.0.9 The Principal Contractor or Applicator shall provide all necessary materials and equipment for testing.
- 7.1.0 ABRASIVE BLAST CLEANING: Inspection:**
- 7.1.1 Either the NACE Visual Standard TM-01-07 or Australian Standard AS1627.9 Pictorial Surface Preparation Standards shall be used as a guide to assess the degree of surface cleanliness.
- 7.2.0 DRY FILM THICKNESS MEASUREMENTS:**
- 7.2.1 Coatings are designed to perform within a particular Dry Film Thickness range. The Dry Film Thickness (DFT) measurement of the coating shall be carried out in accordance with AS 3894.3; using Test Method B for Magnetic Induction and Eddy Current Methods. When testing the DFT of coatings 150µm and less, the effect of the measured surface profile must be deducted from all DFT readings. The coating measurements shall fall between the minimum and maximum DFT's as written in the specification. The "Required Project DFT" shall be achieved as the mean of all DFT readings. Single point readings below the "Required Project DFT" may be acceptable providing the mean DFT is achieved and the spot reading is within the Min - Max range of the product as detailed in the specification and the product data sheet. Rework shall be required, at the applicators cost, if the DFT is outside these guidelines.
- 7.2.2 Single readings can be taken on the coating to determine the DFT. However, any single reading that is less than 80% of the project specific dry film thickness shall be checked with three additional readings within a 100mm diameter of the original reading. These three readings shall be averaged and the average shall not be less than 90% of the specified DFT. The averaged readings shall then be the "point reading".

- 7.2.3 A single reading that reports to be greater than 150% of the specified DFT of the coating shall be checked with three additional readings within a 100mm diameter of the original reading to produce a "point reading". No averaged "point reading" shall be greater than 150% of the maximum specified DFT value.
- 7.2.4 Dry film thickness inspection of the coating shall include areas of the structure which are difficult to paint, are masked by structure, or areas where double coating or light coating is likely due to the shape of the substrate.
- 7.2.5 The Applicator shall perform a sufficient number of dry film thickness readings in such a manner as to ensure a representative account for the DFT compliance of the coated area inspected. Inspection by other authorised party(s) that finds discrepancies to the Applicator's recorded findings by way of under-film or over-film DFT readings shall be marked up and re-checked by both parties. Confirmation of coated areas that fail to meet the specification shall be re-worked and the surface preparation and coatings shall be carried out in the same order as the original work was specified.
- 7.3.0 WET FILM THICKNESS:**
- 7.3.1 Approved Wet Film Gauge is to be used during application to minimise the possibility of low dry film thicknesses and in accordance with AS3894.3.
- 7.4.0 FILM CONTINUITY:**
- 7.4.1 In certain circumstances a coating is to be tested for film continuity and defects including pinholes misses and damage as described in Australian Standard AS3894- Part 1 or Part 2. If required this will be noted on the specification coating schedule.
- 7.5.0 RECORDS:**
- 7.5.1 Records shall be maintained in a manner and format approved by the Project Manager. A minimum format would be in accordance with Australian Standard AS3894- Parts 10, 11, 12, 13 & 14.
- AS 3894.10 Inspection Report -Daily
AS 3894.11 Equipment Report.
AS 3894.12 Inspection Report- Coating
AS 3894.13 Inspection Report – Daily.
AS 3894.14 Inspection Report – Daily Painting.
- 8.0.0 OVERCOATING:**
- 8.0.1 Coating that has been allowed to cure overnight or to cure in excess of 12 hours shall be washed down with fresh (potable) water and fully dried off before the next coat is applied.
- 8.0.2 Coating that has been allowed to cure past the Dulux published re-coat interval shall be treated as per the re-coat instructions in the relevant Dulux Technical Data Sheet re-coating instructions. Coatings that cannot be re-coated shall be fully removed and re-applied as per the specification.
- 8.1.0 REPAIR OF DAMAGED COATING:**
- 8.1.1 Coatings that become damaged shall be repaired as per the published repair and re-coating instructions in the relevant Dulux Product Data Sheet.
- 8.1.2 Repairs shall return the coating to a uniform film. Repairs shall conform to the specification for surface preparation, application, sequencing, finish and dry film thickness.
- 8.1.3 As a minimum, damaged coating shall be abraded back by hand sanding, mechanical grinding with abrasive discs or be abrasive spot and brush blast cleaned as necessary, depending on the surface area to be repaired.
- 8.1.4 Intact coating adjacent to the repair shall have all leading edges "feathered back" by hand or machine sanding to remove any sharp edge so that the newly applied coatings can adhere.
- 8.1.5 Surface contamination shall be removed by washing, dusting or blowing down before applying the first coat of paint.
- 8.1.6 Apply the repair coating in the same sequence as first applied i.e. primer, intermediate and finish coat by brush, roller or spray method as advised in the coating data sheet.
- 9.0.0 PERFORMANCE ISSUES:**
- 9.0.1 The use of thinner (solvents) other than nominated for each coating in the relevant Technical Data Sheet may impair performance of the coating.
- 9.0.2 Pay particular attention to achieving adequate DFT at edges by Stripe Coating to ensure long service life.
- 9.0.3 The coating should be protected from the elements and contamination during coating cure to achieve maximum life.
- 9.0.4 System Life is dependent upon service conditions.
- 9.0.5 Published drying times apply to a single coat applied at the specified thickness at 25°C and 50% relative humidity.

- 9.0.6 Application of the coating by brush and roller methods (if allowed) may require additional coats to achieve the specified dry film thickness (DFT).
- 9.0.7 The specification (s) issued by Dulux Australia in this document have been selected as being suitable for the exposure environment (s) based upon the information given to Dulux by the customer or customer's authorised agent at the time of issue. Changes to the exposure environment and conditions or changes to liquid stored cargoes in contact with the coating (s) may also change the expected performance outcomes for the materials specified.
- 10.0.0 GALVANISED METALS:**
- 10.0.1 Because Dulux has no control over the galvanising process, which can deliver quite a variable product, and because zinc sacrificially corrodes to zinc corrosion products, particularly on or near the coastline, Dulux claims no responsibility for the behaviour of the zinc layer underneath our coating systems.
- 11.0.0 SPREADING RATES:**
- 11.0.1 Practical spreading rates of the coating will vary from quoted theoretical figures depending on substrate porosity, surface roughness (profile), overspray losses, application methods and environmental conditions such as wind. Applicators should allow for application losses when quoting work and allow for additional coating to achieve the specification.
- 12.0.0 DISCLAIMER:**
- 12.0.1 The specification (s) issued by Dulux Australia in this document have been selected as being suitable for the exposure environment (s) based upon the information given to Dulux by the customer or customer's authorised agent at the time of issue. Changes to the exposure environment and conditions or changes to liquid stored cargoes in contact with the coating (s) may also change the expected performance outcomes for the materials specified.
- 12.0.2 Any advice, recommendation, information, assistance or service provided by Dulux Australia (Dulux) in relation to goods manufactured by it or their use and application is given in good faith and is believed by Dulux to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Dulux is provided without liability or responsibility PROVIDED THAT the foregoing shall not exclude, limit, restrict or modify the rights, entitlements and remedies conferred upon any person or the liabilities imposed upon Dulux by any condition or warranty implied by Commonwealth, State or Territory act or ordinance rendering void or prohibiting such exclusion, limitation, restriction or modification.

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Dulux is a Quality Endorsed Company – International Standards ISO9001, ISO9002 & Australian Standards AS3901 and AS3902.

www.duluxprotectivecoatings.com.au

INSPECTION REPORT 10 — DAILY SURFACE AND AMBIENT CONDITIONS

PROJECT: City of Sydney Christmas Infrastructure Design Date: _____
ITEM: _____ ID No: _____
APPLICATOR: _____ SUPERVISOR: _____ Phone: _____

WEATHER CONDITIONS [✓]

TIME	CLEAR/ SUNNY	CLOUDY	FOG	DEW	RAIN				WIND		
					LIGHT	MOD.	HEAVY	SHOWERS	LIGHT	MOD.	STRONG
6:00 am or start											
9:00 am											
12 noon											
3:00 pm											
6:00 pm or finish											
Other											

AMBIENT / SURFACE CONDITIONS

TIME	AIR/DRY BULB °C	WET BULB °C	HUMIDITY %	SUBSTRATE TEMP. °C	DEW POINT °C	SUBSTRATE TEMP. (minus) Dewpoint	OK TO PAINT [✓]
6:00 am or start							
9:00 am							
12 noon							
3:00 pm							
6:00 pm or finish							
Other							

SURFACE PREPARATION (AS 1627) [✓]

ABRASIVE BLAST CLEANING (AS 1627.4) CHAMBER ☐ COVERED ☐ OPEN ☐ INTERNAL ☐

GRADE OF SURFACE RUST [✓]	A	B	C	D	COMMENTS	TIME PAINTED	OK TO PAINT [✓]
Sa 1 Light blast							
Sa 2 Commercial (68% clean)							
Sa 2.5 Near white (95% clean)							
Sa 3 White metal (100% clean)							

TYPE OF ABRASIVE _____ GRADE _____ DRY STORAGE ☐

SURFACE PROFILE/ANCHOR PATTERN [✓]
12 µm ☐ 25 µm ☐ 38 µm ☐ 50 µm ☐ 62 µm ☐ >75 µm ☐

OTHER SURFACE PREPARATION METHODS _____ OK TO PAINT ☐

SURFACE CONDITION AT TIME OF APPLICATION AS/NZS 3894.6 [✓]

FREE OF DUST AND SPENT ABRASIVE ☐ FREE OF WELD SLAG ☐ FREE OF SHARP EDGES ☐
FREE OF OIL AND CONTAMINANTS ☐ FREE OF WELD POROSITY ☐ FREE OF LAMINATIONS ☐
FREE OF FLASH RUSTING ☐ FREE OF WELD SPATTER ☐ FREE OF BURRS ☐

REMARKS _____ Signed _____
On behalf of _____
Date _____

INSPECTION REPORT 11 — EQUIPMENT REPORT

PROJECT: City of Sydney Christmas Infrastructure Design Date: _____
APPLICATOR: _____ SUPERVISOR: _____ Phone: _____

SITE CONDITIONS [✓]

WORK AREA: Totally enclosed ☐ Roofed ☐ Fully exposed ☐
Clean ☐ Dusty ☐ Sealed floor ☐ Well ventilated ☐
Cramped access ☐ Clear access ☐ Marine, on-shore ☐ Marine, offshore ☐
Ground level ☐ Height (m) _____ metres Scaffolding required ☐ Hazardous ☐

TEST EQUIPMENT

TEST REQUIREMENT	TYPE / MODEL	DATE STANDARD CALIBRATED AGAINST REFERENCE STANDARD
ABRASIVE BLAST STANDARD—AS 1627.4		
PROFILE—AS 3894.5		
WET FILM THICKNESS—AS 3894.3		
DRY FILM THICKNESS—AS 3894.3		
DEWPOINT/HUMIDITY—AS 3894.7		
ADHESION TESTING—AS 3894.9		
HARDNESS—AS 3894.4		
CONTINUITY TESTING—AS 3894.1		
OTHER		

METHOD OF APPLICATION [✓]

Brush ☐ Roller ☐ Conventional spray ☐ Airless spray ☐ Plural Spray ☐

SPRAY EQUIPMENT

Airless pump ☐ Pressure pot ☐ Continuous agitator ☐ Water trap ☐

Model: _____
Gun _____ Tip Size _____ Needle _____ Aircap _____

AIR SUPPLY	ABRASIVE BLAST CLEANING	SPRAY APPLICATION
COMPRESSOR BRAND/MODEL		
CAPACITY		
AIR PRESSURE	Singe pot _____ Double pot _____ Blast nozzle _____	Pressure pot _____ Airless pump _____ Gun _____

Water trap fitted ☐ Condensor fitted ☐ Filter fitted ☐

REMARKS _____ Signed _____
On behalf of _____
Date _____

INSPECTION REPORT 12 — COATING

PROJECT: City of Sydney Christmas Infrastructure Design Date: _____
 ITEM NAME: _____ ID NUMBER: _____

SKETCH/LOCATION/DESCRIPTION

COATING IDENTIFICATION	1ST COAT	2ND COAT	3RD COAT	4TH COAT
Generic Type				
Brand Name				
Batch Number Base				
Batch Number Hardener				
Colour				
Thinner Used (Reference Number)				
% Thinner Used				
Date of Application				

METHOD OF APPLICATION ☒

Brush ☐ ☐ ☐ ☐

Roller ☐ ☐ ☐ ☐

Spray Conventional ☐ Airless ☐ Plural ☐ ☐ ☐ ☐ ☐

Wet Film Thickness (µm)				
Dry Film Thickness (µm)				
Specified (µm)				
Average (µm)				
Maximum (µm)				
Minimum (µm)				
Number of Readings Taken				

ADHESION ☒ Full cure/Dry ☐ ☐ ☐ ☐

Method AS/NZS 3894.9 ☐

HARDNESS ☒ Full cure/Dry ☐ ☐ ☐ ☐

Method AS/NZS 3894.4 ☐

CURE/FULL DRY ☒ PASS ☐ FAIL ☐

Method AS/NZS 3894.4 ☐

CURE/FULL DRY ☒ PASS ☐ FAIL ☐ VOLTAGE: _____

Method AS/NZS 3894.4 ☐

REMARKS

Signed: _____ PASSED ☐

On behalf of: _____ REJECTED ☐

Date: _____ REWORK ☐

scoundrel

Thank You

[Handwritten signature]