

Invitation to Offer



LG314/1211/16/103

**Design, Supply and
Installation of Devices to
Prevent Fall From Heights**

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Section 1 Invitation to Offer Details

Offers are invited by the Principal in relation to this Invitation to Offer and are to be submitted on the basis that they conform to the following.

- Section 2: Conditions of Offer
- Section 3: Offer Evaluation Process
- Section 4: Specifications
- Section 5: Conditions of Contract

Unless the context otherwise requires or the contrary intention appears, terms defined in the **Conditions of Offer** have the same meaning when used in the Invitation to Offer.

1.1 Invitation to Offer number

LG314/1211/16/103

1.2 For the provision of

The Principal wishes to appoint an experienced, qualified and resourced Contractor for the design, supply and installation of devices to prevent fall from heights at sewage and water pump stations.

1.3 Contract Period/Delivery Period

Period: 29 weeks

1.4 Principal

Council of the City of Gold Coast
ABN: 84 858 548 460
8 Karp Court, Bundall Qld 4217

1.5 Release to market

11am Saturday 6 August 2016 Queensland time.

1.6 Cut off date for clarifications

The Principal will not respond to any request for information or clarification received later than 5 pm Thursday prior to the tender closing date.

1.7 Closing Date

Offers must be lodged electronically by
11 am Wednesday 7 September 2016 Queensland time.

1.8 Contact officer

All requests for information for the Invitation to Offer process must only be directed to the Principal's contact officer:

Name: Kym Earl
Position Title: Procurement Contract Officer
Branch: Chief Procurement Office
Email: Source2Contract@goldcoast.qld.gov.au

1.9 Confidential Information

The following information contained within the Invitation to Offer is deemed confidential

Not applicable

1.10 Offer validity period

Offers must remain valid after the closing date for a minimum period of 90 days

1.11 Lodgement of Offer

Offers submitted in response to the Invitation to Offer will only be accepted by the Principal via the LG tender box e-Tendering website: www.lgtenderbox.com.au.

Details on how to register for LG tender box can be found on the website.

To prepare and upload your submission:

- a) Create one folder clearly labelled with your company name
- b) Save the Non Price Response forms in a file labelled as **Tenderers Name-Non Price Submission.doc**
- c) Save the Price Response forms in a file labelled as **Tenders Name-Price submission.xls**
- d) Any additional documents should be saved in ONE separate file, labelled as **Tenders Name – Ref Docs.pdf**. e.g. insurance certificates of currency, Certificate of Registration of a Company
- e) Maximum file size is **15MB** with the total submission not exceeding **100MB**
- f) Ensure prior to submitting an offer that it is free from viruses and has been checked with an up-to-date virus checking program.

Failure to comply with this requirement may result in a non-conforming offer.

Any difficulty uploading should be urgently reported to LG tender box helpline on 1800 779 027.

1.12 Deviations

Deviations will be considered only with the submission of a conforming offer.

Section 2 Conditions of Offer

2.1 Conditions of Offer

- 2.1.1 The Council of the City of Gold Coast Conditions of Offer (Version 11) – July 2016, along with any Additional Conditions of Offer as detailed in Clause 2.2 below, will govern the invitation process.
- 2.1.2 The Council of the City of Gold Coast Conditions of Offer are located on the City of Gold Coast website: cityofgoldcoast.com.au.
- 2.1.3 The Principal reserves the right to issue amended Conditions of Offer during the invitation process.
- 2.1.4 It is the responsibility of the tenderer to familiarise themselves with the current Conditions of Offer.

2.2 Additional Conditions of Offer

Nil

Section 3 Offer Evaluation Process

3.1 Evaluation process

The evaluation process will involve an assessment of offers received against the evaluation methodology listed in Clause 3.2 below. The Principal reserves the right to shortlist tenderers during the evaluation process using the evaluation criteria contained in Clause 3.3 below. The evaluation process may at the discretion of the Principal involve, at any stage during the evaluation process, a due diligence assessment of risk, including legal entity, reference, financial, confidentiality, financial viability, deviations and corporate checks, and discussions with tenderers, demonstrations and site visits.

Offers will be evaluated by an evaluation team consisting of two or more officers of the Principal. The evaluation team will have regard to the sound contracting principles as set out in the *Local Government Act 2009* (Qld) which are:

- a) value for money
- b) open and effective competition
- c) the development of competitive local business and industry
- d) environmental protection
- e) ethical behaviour and fair dealing.

Each offer submitted will be evaluated using the same evaluation methodology described below in Clause 3.2 and the criteria listed in Clause 3.3.

3.2 Evaluation methodology

3.2.1 Gate One: Mandatory

The initial gate comprising of mandatory criteria will allow the evaluation team to determine offers that do not conform to the mandatory requirements.

- a) Non-conforming offers will not be evaluated further as part of the evaluation process for subsequent gates two and three
- b) Incomplete offers may be, at the discretion of the Principal, deemed non-conforming
- c) Complete offers that meet the mandatory criteria will be advanced to Gate Two

3.2.2 Gate Two: Scoring Capability Criteria

The evaluation team will shortlist offers based on a combination of capability and local business and industry factors as follows.

a) Locality	15%
b) Gold Coast Business Excellence Awards	2%
c) Capability criteria	<u>83%</u>
Total	100%

3.2.3 Local business and industry

Locality - The Principal supports the development of local competitive business and industry by including a 15 per cent weighting in the scoring criteria apportioned on a sliding scale to local, regional, interstate and overseas suppliers as follows:

Score	Description
15	Developing or established Gold Coast business
12	Branch office on the Gold Coast directly employing a minimum of ten full time employees
9	Branch office on the Gold Coast, established for a minimum of six months, directly

	employing less than ten full time employees
4	Adjacent local government (Logan, Scenic Rim, Redland, or Tweed Shire) business
2	Queensland business
1	Interstate business
0	Overseas business

Gold Coast Business Excellence Awards - The Principal includes a weighting of two per cent in the scoring criteria based on the Gold Coast Business Excellence Awards as follows.

Score	Description
2	A winner of the Gold Coast Business Excellence Awards within the last four calendar years
1	A finalist of the Gold Coast Business Excellence Awards within the last four calendar years
0	All other businesses

3.2.4 Gate Three: Value for Money

Offers deemed capable of meeting the requirements at Gate Two are shortlisted and advanced to Gate Three.

- a) For offers leading to contracts with an annual value greater than \$1,000,000 the best value pricing submission through Gate Three is selected.
- b) For offers leading to contracts with an annual value between \$200,000 and \$1,000,000; if the best value pricing submission is not from a local business (developing and established Gold Coast businesses and to businesses with a branch office on the Gold Coast directly employing a minimum of ten full time employees), and there is a local business with a pricing submission within 15 per cent of the best value pricing submission, then the local business will be awarded the contract.

3.3 Evaluation Criteria

3.3.1 Mandatory Criteria

Evaluation Criteria	Description	Response forms required
Work Health and Safety (WHS)	Documented and implemented WHS management system	Response Form: Work Health and Safety
Quality assurance (QA)	Documented and implemented QA management system.	Response form: Quality Assurance
Licences	QBCC Structural Metal and Fabrication Trade Contractor Licence Confined Space Competency RPEQ	Response Form: Licences

3.3.2 Scoring Capability Criteria

Evaluation Criteria	Description	Response forms required
Local business and industry factor	Refer to clause 3.2.3	Response form: Local Content

Gold Coast Business Excellence Awards	Refer to clause 3.2.3	Response form: Local Content
Work Health and Safety	Provide at least three examples of relevant safe method statements (SWMS) including confined space entry and removal of concrete hob.	Response form: Work Health and Safety
Capability	<p>Detail the following:</p> <ul style="list-style-type: none"> • Availability and expertise of key personnel nominated to carry out the works. • Experience in the same or similar works, specifically in the installation of fall from heights devices at sewerage pumping stations. • Experience in design and/or fabrication of devices for the prevention of fall from heights. 	<p>Response form: Current Contractual Commitments</p> <p>Response form: Capability of Key Personnel</p> <p>Response form: Experience and Referees</p>
Methodology	Provide an outline of proposed methodology demonstrating technical capability to carry out the work.	Response form: Methodology
Preliminary Program of Works	Provide a preliminary program of works demonstrating the ability to carry out the works within the specified timeframe.	Response form: Preliminary Program of Works

Non-Scoring Due Diligence Criteria:

Due Diligence Criteria	Description	Response form(s) to be completed and submitted
Insurances	An assessment of risk based on stipulated insurances	Response form: Insurances
Licences	An assessment of risk based on licence information submitted	Response form: Licences
References	An assessment of risk based on reference checks may be used to substantiate claims made	Response form: Experience and References
Deviations	An assessment of risk based on the number and types of Deviations proposed.	Response form: Deviations
Conflicts of interest and fair dealing	An assessment of risk based on perceived or actual conflict of interests, confidentiality and fair dealing.	<p>Response form: Conflict of Interest Declaration and Confidentiality Agreement</p> <p>Response form: Declaration of commission and incentives,</p>

		moral rights and collusion
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3.3.3 Value for Money Criteria

Evaluation Criteria	Description	Response forms required
Value for Money	Refer to Section 3: Clause 3.2.4	Response form: Price Submission

Section 4 Specifications

4.1 General

- 4.1.1 The specifications have been included to allow tenderers to respond to the Invitation to Offer.
- 4.1.2 The specification is the basis of all offers and forms the foundation of the Contract and all directions are to the Contractor.
- 4.1.3 It is the responsibility of the tenderer to familiarise themselves with the requirements of the specifications.
- 4.1.4 The specifications listed below are attached as 15 separate documents to allow tenderers to complete and submit the required response forms listed in Section 3.

4.2 Project Specific

4.2.1 Specifications

4.2.2 Part C Technical Specifications:

- Attachment Part 1.1: Standard SPS Drawings
- Attachment Part 1.2: Standard WPS Drawings
- Attachment Part 1.3: Design Report
- Attachment Part 1.4: General PUP/Service Location Specification.

4.2.3 Part D Attachments:

- Attachment 2.1: SPS Scope Summary
- Attachment 2.2: SPS Site Data Sheets
- Attachment 3.1: WPS Scope Summary
- Attachment 3.2: WPS Site Data Sheets
- Attachment 4.1: SPS On-Maintenance Inspection Sheet
- Attachment 4.2: WPS On-Maintenance Inspection Sheet
- Attachment 5.1: SPS Site Photographs
- Attachment 5.2: SPS Location Plans
- Attachment 6.1: WPS Site Photographs
- Attachment 6.2: WPS Location Plans

Section 5 Conditions of Contract

5.1 Conditions of Contract

- 5.1.1 The terms and conditions in the Conditions of Contract: AS2124-1992 along with any Special Conditions of Contract as detailed in Clause 5.2 and Additional Conditions of Contract detailed in Clause 5.3 below, will govern any Contract established as a result of the invitation process, unless otherwise specified and agreed in Clauses 11 and 12 of the Conditions of Offer.
- 5.1.2 The Conditions of Contract listed in Clause 5.1.1 above can be located on the City of Gold Coast website: cityofgoldcoast.com.au.
- 5.1.3 The Principal reserves the right to issue amended Conditions of Contract, Special Conditions of Contracts and/or Additional Conditions of Contract prior to entering into a Contract with the Successful Tenderer, as and when required.
- 5.1.4 It is the responsibility of the tenderer to familiarise themselves with the current Conditions of Contract, Special Conditions of Contract and/or Additional Conditions of Contract.

5.2 Special Conditions of Contract

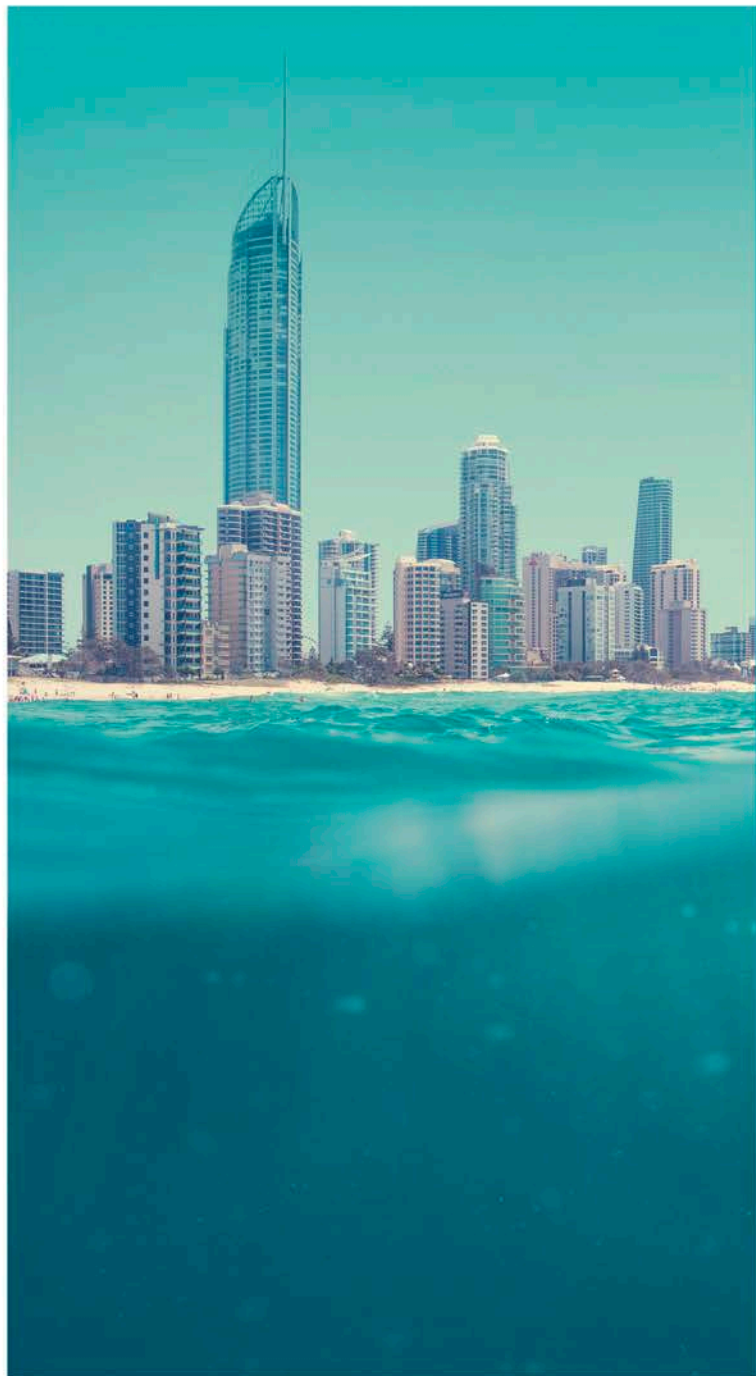
- 5.2.1 The terms and conditions in the Special Conditions of Contract AS2124 – 1992 (Version 3) – November 2015 will take precedence over the Conditions of Contract specified in Clause 5.1.1
- 5.2.2 The Special Conditions of Contract listed in Clause 5.2.1 can be located on the City of Gold Coast website: cityofgoldcoast.com.au.

5.3 Additional Conditions of Contract

Nil

Section 6 Response forms

- 6.1 The response forms are attached as a separate document, and have been included to allow tenderers to respond to the Invitation to Offer. It is a requirement of the Invitation to Offer that each response form be fully completed for each offer submitted.
- 6.2 Responses are limited to a maximum of three pages per response form. Tenderers must ensure that the font, questions, numbering and headings of each response form are not altered in any way, unless consent has been granted by the Principal.
- 6.3 Tenderers who fail to comply with any of the above requirements may at the discretion of the Principal be considered to have submitted a non-conforming tender.
- 6.4 The response forms are attached as two separate documents to allow tenderers to complete and submit the **Non-Price Response forms** and the **Price Response forms**



Council of the City of Gold Coast

PO Box 5042 GCMC Qld 9729

E mail@cityofgoldcoast.com.au

W cityofgoldcoast.com.au

P 1300 GOLDCOAST



Response Forms



LG314/1211/16/103

**Design, Supply and
Installation of Devices to
Prevent Fall From
Heights**

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Non-Price Response Forms

Contract Header: Capital Works - AS2124

Council of the City of Gold Coast

ABN 84 858 548 460

cityofgoldcoast.com.au

Privacy statement

The Principal is collecting Personal Information for the purpose of administering the Invitation to Offer Process and subsequent Contract. This Personal Information may be shared with relevant officers of the Principal for the purpose of administering the Invitation to Offer Process and subsequent Contract or made publicly available in accordance with the requirements of the Principals [Procurement Policy and Standards](#). Personal Information will not be otherwise disclosed to any other third party without the consent of the Tenderer or successful Contractor, except where authorised or required by law.

Contract Header:

If a Contract is to be awarded to a successful Tenderer as a result of the Invitation to Offer Process, this Contract Header, the Offer and response forms which are completed and acceptable to the Principal will form part of the Contract along with the Conditions of Contract, the Price Submission and the agreed deviations. The Principal has completed those items which it requires for the purposes of the Contract. The Tenderer must complete all other items.

Annexure to Australian Standard General Conditions of Contract AS2124-1992

Item	Clause	Conditions of Contract																
1.		Tenderer (who upon acceptance by the Principal will be known as the Contractor) <table border="1"> <tr> <td>Registered Legal name:</td> <td></td> </tr> <tr> <td>Registered Business name:</td> <td></td> </tr> <tr> <td>Registered Trading name:</td> <td></td> </tr> <tr> <td>ABN/ACN:</td> <td>/</td> </tr> <tr> <td>Principal place of business address:</td> <td></td> </tr> <tr> <td>Telephone:</td> <td></td> </tr> <tr> <td>Email:</td> <td></td> </tr> <tr> <td>Duly authorised delegate:</td> <td></td> </tr> </table>	Registered Legal name:		Registered Business name:		Registered Trading name:		ABN/ACN:	/	Principal place of business address:		Telephone:		Email:		Duly authorised delegate:	
Registered Legal name:																		
Registered Business name:																		
Registered Trading name:																		
ABN/ACN:	/																	
Principal place of business address:																		
Telephone:																		
Email:																		
Duly authorised delegate:																		
2.		Payment Name, phone number and email: <table border="1"> <tr> <td></td> <td></td> <td></td> </tr> </table>																
3.		Bank account and BSB number: <table border="1"> <tr> <td></td> <td></td> </tr> </table>																
4.		Bank account name:																
5.		Copy of Contactor's tax invoice supplied: <table border="1"> <tr> <td>Yes <input type="checkbox"/></td> <td>No <input type="checkbox"/></td> </tr> </table>	Yes <input type="checkbox"/>	No <input type="checkbox"/>														
Yes <input type="checkbox"/>	No <input type="checkbox"/>																	
6.		This Tenderer acknowledges the following addenda: <table border="1"> <tr> <td>(List all addenda e.g. one, two, three)</td> </tr> </table>	(List all addenda e.g. one, two, three)															
(List all addenda e.g. one, two, three)																		
7.	1	The law applicable is that of the State of: <table border="1"> <tr> <td>Queensland.</td> </tr> </table>	Queensland.															
Queensland.																		
8.	1	All payments made under the Contract will be made at: <table border="1"> <tr> <td>PO Box 5042, Gold Coast Mail Centre, QLD, 9729 or 8 Karp Court, Bundall Qld 4217</td> </tr> </table>	PO Box 5042, Gold Coast Mail Centre, QLD, 9729 or 8 Karp Court, Bundall Qld 4217															
PO Box 5042, Gold Coast Mail Centre, QLD, 9729 or 8 Karp Court, Bundall Qld 4217																		
9.	2	The Principal: <table border="1"> <tr> <td>Gold Coast City Council ABN 8485 8548 460</td> </tr> </table>	Gold Coast City Council ABN 8485 8548 460															
Gold Coast City Council ABN 8485 8548 460																		
10.	2	The address of the Principal: <table border="1"> <tr> <td>PO Box 5042, Gold Coast Mail Centre, QLD, 9729 8 Karp Court, Bundall, QLD, 4217.</td> </tr> </table>	PO Box 5042, Gold Coast Mail Centre, QLD, 9729 8 Karp Court, Bundall, QLD, 4217.															
PO Box 5042, Gold Coast Mail Centre, QLD, 9729 8 Karp Court, Bundall, QLD, 4217.																		
11.	2	The Superintendent: <table border="1"> <tr> <td>Office of the Superintendent, Gold Coast Water, Gold Coast City Council.</td> </tr> </table>	Office of the Superintendent, Gold Coast Water, Gold Coast City Council.															
Office of the Superintendent, Gold Coast Water, Gold Coast City Council.																		
12.	2	The address of the Superintendent: <table border="1"> <tr> <td>PO Box 5042, Gold Coast Mail Centre, QLD, 9729 Gold Coast City Council Administration Centre, 833 Nerang Southport Road, Nerang, QLD, 4217.</td> </tr> </table>	PO Box 5042, Gold Coast Mail Centre, QLD, 9729 Gold Coast City Council Administration Centre, 833 Nerang Southport Road, Nerang, QLD, 4217.															
PO Box 5042, Gold Coast Mail Centre, QLD, 9729 Gold Coast City Council Administration Centre, 833 Nerang Southport Road, Nerang, QLD, 4217.																		

13.	2	Separable Portions:	N/A
14.	2	Interpretation - Scope of Works:	A generic scope underlies that in the Project Specification.
15.	2	Interpretation - Standard of Works:	A generic standard underlies that in the Specification.
16.	2 and 30	Interpretation - Inclusion in Works:	The Works include any Optional Detail, Full Cost of any Contractor Nominated Materials, Plant or Equipment, any Environmental and Construction Management Plan and permit required by the Department of Environment and Heritage Protection, Maintenance of the Works if indicated in the Project Specification and mandatory Quality requirements and Safety personnel.
17.	2	Generic Standards and Scope of Works:	Generic Standard Definitions, Standards and Scope underlies the Project Specification.
18.	3.3 (b)	Limits of accuracy applying to quantities for which the Principal accepted a rate or rates:	Nil to double the quantity nominated in a schedule of rates contract and any reasonable quantity where 'rate only' is indicated.
19.	4.1 and 4.2	Bill of Quantities – the alternative applying:	There is no Bill of Quantities. An alternative contractor's 'Schedule of Quantities and Prices' applies for a Lump Sum Contract.
20.	5.2	Contractor will provide security in the amount of:	Equal to 5% of the Contract Sum (including any Provisional amounts). Two amounts of 2.5% of the contract sum.
21.	5.2	Security Deposit by the Principal:	Not Applicable Refer to SECTION 5: SPECIAL CONDITIONS OF CONTRACT.
22.	5.5	The period of notice required of a party's intention to have recourse to retention moneys and/or to convert security:	5 days.
23.	5.5	The percentage to which the entitlement of security and retention moneys is reduced:	50% reduction in an initial security applies during the Defects Liability Period.
24.	5.9	Interest on retention moneys and security - the alternative applying:	Alternative 2, Interest on any security lodged belongs to the Principal.
25.	8.3	The number of copies supplied by the Principal:	0 Copies.
26.	8.4	The number of copies supplied by the Contractor:	3 Copies.
27.	8.4	The time within which the Superintendent must give direction as to the suitability and return the Contractors copies:	As soon as possible with a 21 day maximum.
28.	9.2	Work which cannot be subcontracted without approval:	All subcontractor engagement requires prior approval of the Superintendent.
29.	11(b) and (c)	The percentage of profit and attendance and the amount or percentage for profit and attendance:	The Contractor's mark-up is 10%, 7% for net profit and 3% for attendance. (Including works under Provisional Items)
30.	13	Intellectual Property Rights	To the extent allowed by law. New Intellectual Property is to be developed as Agent for the Principal and vest with the Principal and

		and Copyright:	all plans and documents must indicate a Copyright © assigned to Gold Coast City Council and record the year.
31.	14	Legislative Requirements Excluded:	Nil unless stated otherwise in the Project Specification
32.	15	Safety Reporting Obligations:	Quarterly, At Practical and Final Completion, and as requested by the Superintendent.
33.	18 and 19	Insurance of the works – the alternative applying:	Alternative 2 applies for limited cover – refer to the full policy details. Deductible amounts and risks not covered are the responsibility of the Contractor as for Alternative 1.
34.	AS4300 Clause 21	Amount of professional indemnity insurance:	\$3 million for works / building consultancy services
35.	27.1	The time for giving possession of (part of) the Site:	As advised by the Superintendent.
36.	35.2	The time for Practical Completion:	Within 29 weeks for all sites from the date of being given possession of Package 1 sites.
37.	35.6	Liquidated Damages per day:	\$800 excl GST per calendar day.
38.	35.8	Early Practical Completion Bonus:	Nil.
39.	36	Extra costs for Delay or Disruption:	Event: No extra events are nominated.
40.	37	The Defects Liability Period:	12 months.
41.	41(f)	The Charge for overheads, profit, etc. for Daywork:	10% on applicable rates.
42.	42.1	Times for Payment Claims:	Lump Sum Contracts: in accordance with the nominated Work Milestone provisions and not subjected to Rise and Fall.
43.	42.1 and 42.4	Unfixed Plant or Materials Claims:	Payment is claimable only when specific security is lodged pending incorporation in the Works in accordance with the terms of the Contract.
44.	42.3	Retention Monies on:	Retention is not required.
45.	42.9	Interest on Overdue Payments:	7% per annum is payable if claimed.
46.	42 A	Goods and Services Tax (GST):	The Works are a Taxable Supply and all values must exclude GST. The Contractor must lodge a Progress Claim (not an Invoice) to the Superintendent identifying the Contract Number and indicating the progressive value excluding GST of the Contract Works claimed in accordance with the Contract.
47.	42 A.5	Recipient Created Tax Invoice:	The Principal provides the Contractor with the Recipient Created Tax Invoice (RCTI) associated with the supply payment for Progress Claims that have been certified by the Contract Superintendent. The Contractor must not issue a Tax Invoice for claims under this contract. Payments are made by electronic funds transfer by supply of relevant details to the Principal's Accounts Payable Section or as otherwise advised.
48.	44.7	The delay in giving possession of the Site which will be a substantial breach:	3 months within each individual packages.
49.	47.2	The alternative required in proceeding with dispute resolution:	Alternative 2 as modified.

Tenderers authorisation, certification and execution

The Tenderers duly authorised delegate named below certifies that in submitting the Offer:

- a) have read, understood and complied with the requirements of the Invitation to Offer
- b) agree that the submitted Response Forms are a true and accurate account of the Offer
- c) am duly authorised to execute this Offer on behalf of the Tenderer in the capacity provided below
- d) acknowledge that upon acceptance by the Principal will be known as the Contractor in terms of the Conditions of Contract

Tenderer (Duly authorised delegate) (Electronic signatures accepted)	Name of authorised delegate		Signature of authorised delegate	
Signed in the Capacity as:	<input type="checkbox"/> Individual/Partnership: <input type="checkbox"/> Trust: <input type="checkbox"/> Company: Director/Secretary: In accordance with s.127 of the <i>Corporations Act 2001 (Cth)</i>			
In the presence of (Witness) (Electronic signatures accepted)	Name of witness		Signature of witness	
Date signed on:	this day of 20			

Principals Execution

The Principal accepts the Offer submitted by the Successful Tenderer (now referred to as the Contractor) and it is agreed that the following documents in order of preference together comprise the contract between the Contractor and the Principal:

- a) This Contract Header (including agreed deviations)
- b) The General Conditions of Contract AS2124-1992 as amended by the Special Conditions of Contract
- c) Specifications
- d) Offer (to the extent accepted under the Contract Header)
- e) Invitation to Offer documents

Principal (Duly authorised delegate) (Electronic signatures accepted)	Name of authorised delegate		Signature of authorised delegate	
Signed in the Capacity as:	<input type="checkbox"/> Chief Procurement Officer: <input type="checkbox"/> Executive Coordinator Source to Contract: <input type="checkbox"/> Procurement Coordinator Source to Contract:			
In the presence of (Witness) (Electronic signatures accepted)	Name of witness		Signature of witness	
Date signed on:	this day of 20			

Local Content

Council of the City of Gold Coast

ABN 84 858 548 460

cityofgoldcoast.com.au

Privacy statement

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Local Business and Industry		
Where is the head office of your business located? If claiming local content proof of location must be provided with your response with one of the following e.g. copy of lease, or rates notice or electricity bill)	<<insert details>>	
When was your business established on the Gold Coast?	<<insert details>>	
Branch office address (Gold Coast):	<<insert details>>	
When was your branch office established on the Gold Coast?	<<insert details>>	
Number of full time employees on the Gold Coast?	<<insert details>>	
How long has your business been established for the type of goods/services currently being tendered?	<<insert details>>	
What percentage of goods/services is sourced from the Gold Coast?	<<insert details>>	
Gold Coast Business Excellence Awards		
Has your business been a finalist (monthly winner) or won any category of the Gold Coast Business Excellence Awards?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, provide details	<<insert details>>	
Winner:	<<insert details>>	
Year:	<<insert details>>	
Category	<<insert details>>	
Winner:	<<insert details>>	
Year:	<<insert details>>	
Category	<<insert details>>	

Work Health and Safety

Council of the City of Gold Coast

ABN 84 858 548 460

cityofgoldcoast.com.au**Privacy statement**

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Work Health and Safety Management System

Do you have a current documented WHS management system?

☐ Yes

Provided by:

Dated:

If the answer is yes, provide a copy of the WHS documents with your submission

☐ No

Does it have third party certification?

☐ Yes

Provided by:

Dated:

☐ No**Contract specific hazards**

Provide a minimum three SWMS for recent similar works including confined space entry and removal of concrete hob.

<<insert details>>

Insurances

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ABN 84 858 548 460

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Workers compensation insurance	
Policy number:	<<Provide details>>
Name of insurer:	<<Provide details>>
Named insured:	<<Provide details>>
Expiry date of the Worker's Compensation insurance policy:	<<Provide details>> NOTE: Specify any exclusions and deductibles to the above Insurance Policy.
Public liability insurance	
Policy number:	<<Provide details>>
Name of insurer:	<<Provide details>>
Named insured:	<<Provide details>>
Sum insured:	<<Provide details>>
Expiry date of the public liability insurance policy:	<<Provide details>> NOTE: Specify any exclusions and deductibles to the above Insurance Policy.
Professional indemnity or errors and omissions insurance	
Description of insurance	<<Provide details>>
Policy number:	<<Provide details>>
Name of insurer:	<<Provide details>>
Named insured:	<<Provide details>>
Sum insured:	<<Provide details>>
Expiry date of the above insurance policy:	<<Provide details>> NOTE: Specify any exclusions and deductibles to the above Insurance Policy. <i>A Certificate of Currency for the above insurance policies MUST be provided by the Contractor to the Principal upon request.</i>

Licences

Council of the City of Gold Coast

ABN 84 858 548 460

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QBCC Structural Metal Fabrication and Erection Trade Contractor Licence	
Licence number:	<<Provide details>>
Category:	<<Provide details>>
Valid to:	<<Provide details>>
Restrictions / conditions (if any) on Licences (list if applicable)	<<Provide details>> COPY TO BE ATTACHED BY TENDERER
Confined Space Training (Competency)	
Name:	<<Provide details>>
Certification number:	<<Provide details>>
Valid to:	<<Provide details>>
Restrictions / conditions (if any) on Licences (list if applicable)	<<Provide details>> COPY TO BE ATTACHED BY TENDERER
RPEQ Certification	
Name:	<<Provide details>>
Certification number:	<<Provide details>>
Valid to:	<<Provide details>>
Restrictions / conditions (if any) on Certifications (list if applicable)	<<Provide details>> COPY TO BE ATTACHED BY TENDERER

Quality Assurance

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ABN 84 858 548 460

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Quality assurance (QA) systems

Does your organisation have a current certified quality management system? If YES, to which standards are you accredited? Provide a copy of the QA system documents with your submission	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<<insert details>>		
Does your organisation have a third party certified quality management system? If YES, to which standard are you accredited?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<<insert details>>		

Current Contractual Commitments

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Provide details of current applicable contractual commitments. Add additional tables if required.

The Principal will assess the current contractual commitments for the purpose of this Invitation to Offer and subsequent Contract.

These clients may be contacted as part of the evaluation process to verify the data contained in this Invitation to Offer. The Principal reserves the right to contact other clients whom you have not nominated. The Principal will ensure that confidentiality is maintained in relation to any information these or other clients provide.

Name of Client/Principal:

Contract title and summary of scope:

Contract value (\$):

Contracted Completion date:

Contract duration:

Location:

Name of Client/Principal:

Contract title:

Contract value (\$):

Contracted Completion date:

Contract duration:

Location:

Name of Client/Principal:

Contract title:

Contract value (\$):

Contracted Completion date:

Contract duration:

Location:

Name of Client/Principal:

Contract title:

Contract value (\$):

Contracted Completion date:

Contract duration:

Location:

Capability of Key Personnel

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Provide resume of each proposed personnel to provide the Works and include details of qualifications, professional membership and experiences. Add additional rows as required.

The Principal will assess the suitability of each candidate for the purpose of this contract. Changes (addition/deletion) to personnel must be approved by the Principal in writing. New personnel must have the same or greater qualifications and experience to those they are replacing.

Position:	Project Manager
Name:	
Formal training (qualification, registrations, certificates):	
Proposed role for this project:	
Experience relevant to this project:	
Employment status: (full-time, Apprentice, labour hire)	
Resume attached	<input type="checkbox"/> Yes <input type="checkbox"/> No

Position:	WHS Representative
Name:	
Formal training (qualification, registrations, certificates):	
Proposed role for this project:	
Experience relevant to this project:	
Employment status: (full-time, Apprentice, labour hire)	
Resume attached	<input type="checkbox"/> Yes <input type="checkbox"/> No

Position:	Fabricator
Name:	
Formal training (qualification, registrations, certificates):	
Proposed role for this project:	
Experience relevant to this project:	
Employment status: (full-time, Apprentice, labour hire)	
Resume attached	<input type="checkbox"/> Yes <input type="checkbox"/> No

Position:	Fabricator
Name:	
Formal training (qualification, registrations, certificates):	
Proposed role for this project:	
Experience relevant to this project:	
Employment status: (full-time, Apprentice, labour hire)	
Resume attached	<input type="checkbox"/> Yes <input type="checkbox"/> No

Position:	Site Supervisor and/or Installer
Name:	
Formal training (qualification, registrations, certificates):	
Proposed role for this project:	
Experience relevant to this project:	
Employment status: (full-time, Apprentice, labour hire)	
Resume attached	<input type="checkbox"/> Yes <input type="checkbox"/> No

Position:	Site Supervisor and/or Installer
Name:	
Formal training (qualification, registrations, certificates):	
Proposed role for this project:	
Experience relevant to this project:	
Employment status: (full-time, Apprentice, labour hire)	
Resume attached	<input type="checkbox"/> Yes <input type="checkbox"/> No

Position:	Designer - Handrails, Covers and Grates
Name:	
Formal training (qualification, registrations, certificates):	
Proposed role for this project:	
Experience relevant to this project:	
Employment status: (full-time, Apprentice, labour hire)	
Resume attached	<input type="checkbox"/> Yes <input type="checkbox"/> No

Position:	Designer – Concrete and other civil works.
Name:	
Formal training (qualification,	

registrations, certificates):	
Proposed role for this project:	
Experience relevant to this project:	
Employment status: (full-time, Apprentice, labour hire)	
Resume attached	<input type="checkbox"/> Yes <input type="checkbox"/> No
Position:	Other
Name:	
Formal training (qualification, registrations, certificates):	
Proposed role for this project:	
Experience relevant to this project:	
Employment status: (full-time, Apprentice, labour hire)	

Subcontractors

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Coast

ABN 84 858 548 460

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List all proposed sub-contractors

Provide details of each proposed sub-contractor to be engaged in connection with the provision of the Goods and/or Services. Include the following details;

- Company name, address and ABN.
- Define the scope and extent of services to be provided by each sub-contractor.
- If required, for Design RPEQ subcontractor, provide comprehensive CV describing experiences in design of similar safety covers and grates.

<<insert details>>

Experience and Referees

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Principal Contractor:

List previous experience and referees in undertaking similar services

Give at least three recent relevant examples. Detail whether this experience was gained under your current business arrangement, and give the status of your employment (whether you were the main contractor, a sub-contractor, or an employee).

These referees may be contacted as part of the evaluation process to verify the data contained in this Invitation to Offer. The Principal reserves the right to contact other clients whom you have not nominated as referees. The Principal will ensure that confidentiality is maintained in relation to any information your referees or other clients provide.

Contract name:		
Brief description:		
Engagement of Tenderer:	<input type="checkbox"/> Main contractor	<input type="checkbox"/> Sub-contractor
Role of Tenderer:	<input type="checkbox"/> Design of devices for prevention of fall from heights. <input type="checkbox"/> Fabrication of devices for prevention of fall from heights. <input type="checkbox"/> Installation of devices for prevention of fall from heights. <input type="checkbox"/> Construction of concrete footings for handrails. <input type="checkbox"/> Other minor civil works.	
Contractor's Contract Manager:		
Approximate contract value:		
Commencement date:		
Completion date:		
Contract outcomes: Includes issues that impeded performance as well as actions that improved performance.		
Referee details:	Name:	
	Telephone:	
	Email:	
Contract name:		
Brief description:		
Engagement of Tenderer:	<input type="checkbox"/> Main contractor	<input type="checkbox"/> Sub-contractor

Role of Tenderer:	<input type="checkbox"/> Design of devices for prevention of fall from heights. <input type="checkbox"/> Fabrication of devices for prevention of fall from heights. <input type="checkbox"/> Installation of devices for prevention of fall from heights. <input type="checkbox"/> Construction of concrete slab. <input type="checkbox"/> Minor earthworks.	
Contractor's Contract Manager:		
Approximate contract value:		
Commencement date:		
Completion date:		
Contract outcomes: Includes issues that impeded performance as well as actions that improved performance.		
Referee details:	Name:	
	Telephone:	
	Email:	
Contract name:		
Brief description:		
Engagement of Tenderer:	<input type="checkbox"/> Main contractor <input type="checkbox"/> Sub-contractor	
Role of Tenderer:	<input type="checkbox"/> Design of devices for prevention of fall from heights. <input type="checkbox"/> Fabrication of devices for prevention of fall from heights. <input type="checkbox"/> Installation of devices for prevention of fall from heights. <input type="checkbox"/> Construction of concrete slab. <input type="checkbox"/> Minor earthworks.	
Contractor's Contract Manager:		
Approximate contract value:		
Commencement date:		
Completion date:		
Contract outcomes: Includes issues that impeded performance as well as actions that improved performance.		
Referee details:	Name:	
	Telephone:	
	Email:	

Subcontractor:**List previous experience and referees in undertaking similar services**

Give at least three recent relevant examples. Detail whether this experience was gained under your current business arrangement, and give the status of your employment (whether you were the main contractor, a sub-contractor, or an employee).

These referees may be contacted as part of the evaluation process to verify the data contained in this Invitation to Offer. The Principal reserves the right to contact other clients whom you have not nominated as referees. The Principal will ensure that confidentiality is maintained in relation to any information your referees or other clients provide.

Subcontractor name:		
Contract name:		
Brief description:		
Engagement of Tenderer:	<input type="checkbox"/> Main contractor	<input type="checkbox"/> Sub-contractor
Role of Tenderer:	<input type="checkbox"/> Design of devices for prevention of fall from heights. <input type="checkbox"/> Fabrication of devices for prevention of fall from heights. <input type="checkbox"/> Installation of devices for prevention of fall from heights. <input type="checkbox"/> Construction of concrete footings for handrails. <input type="checkbox"/> Other minor civil works.	
Contractor's Contract Manager:		
Approximate contract value:		
Commencement date:		
Completion date:		
Contract outcomes: Includes issues that impeded performance as well as actions that improved performance.		
Referee details:	Name:	
	Telephone:	
	Email:	

Subcontractor name:		
Contract name:		
Brief description:		
Engagement of Tenderer:	<input type="checkbox"/> Main contractor	<input type="checkbox"/> Sub-contractor
Role of Tenderer:	<input type="checkbox"/> Design of devices for prevention of fall from heights. <input type="checkbox"/> Fabrication of devices for prevention of fall from heights. <input type="checkbox"/> Installation of devices for prevention of fall from heights. <input type="checkbox"/> Construction of concrete slab. <input type="checkbox"/> Minor earthworks.	
Contractor's Contract Manager:		

Approximate contract value:		
Commencement date:		
Completion date:		
Contract outcomes: Includes issues that impeded performance as well as actions that improved performance.		
Referee details:	Name:	
	Telephone:	
	Email:	
Subcontractor name:		
Contract name:		
Brief description:		
Engagement of Tenderer:	<input type="checkbox"/> Main contractor <input type="checkbox"/> Sub-contractor	
Role of Tenderer:	<input type="checkbox"/> Design of devices for prevention of fall from heights. <input type="checkbox"/> Fabrication of devices for prevention of fall from heights. <input type="checkbox"/> Installation of devices for prevention of fall from heights. <input type="checkbox"/> Construction of concrete slab. <input type="checkbox"/> Minor earthworks.	
Contractor's Contract Manager:		
Approximate contract value:		
Commencement date:		
Completion date:		
Contract outcomes: Includes issues that impeded performance as well as actions that improved performance.		
Referee details:	Name:	
	Telephone:	
	Email:	

Preliminary Program of Work

Council of the City of Gold Coast

ABN 84 858 548 460

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Provide a preliminary program of Work here, or attached to this page

Provide the preliminary program in the form of a Gantt Chart using Microsoft project or equivalent showing proposal to meet delivery of milestones of the five packages to be completed in a maximum of 29 weeks as detailed in Part B: Clause 3: Delivery Methodology and Program. Detail as a minimum:

- Order of work packages and milestones within each package.
- Pre-start documentation.
- Design.
- Hold Point (for the For Construction review by the Superintendent)
- Submission of final For Construction drawings.
- Installation.
- On-Maintenance Inspection and Handing Over.
- Reinstatement and clean-up.
- As-Constructed drawings.
- Practical Completion.

The Gantt Chart is to use generic weeks as the duration (i.e. no dates used) with the number of weeks shown on the timeline of the program and to commence from the award of the contract.

Note: Should this offer be successful, the Superintendent may require any program to be reviewed and updated for their approval.

<<insert details>>

Methodology

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ABN 84 858 548 460

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Provide an outline of the method by which you would organise and execute the Work required of you including but not limited to the following.

Give sufficient details to demonstrate your clear understanding of all the operations necessary.

As a minimum address the relevant elements of Part B: Project Specifications. Clause 3: Delivery Methodology and Program, Clause 4: Design, Clause 5: Installation / Construction, and Clause 6: On-Maintenance Inspection and Handover.

In addition to the above, provide the following (inter-alia)

- Program delivery methodology
- Project management
- Methodology of design and detailed design process
- Methodology to mitigate impacts to the community and other stakeholders
- Fabrication and installation process. Including methodology of removing existing covers and installing new covers, grates and handrails, and concrete works including removing of concrete hobs, constructing concrete slab and cutting concrete slab to enlarge pumping station access opening. Indicate the safety measures that will be undertaken whilst the void of the wet-well and valve chamber are left open while work is progressing and the safety measure while hot works are being carried out on site.
- Method to ensure protection of workers and public during installation process.
- Method to prevent damage to assets.
- Method to ensure all installations are fabricated and installed to specifications, including on-maintenance inspection.
- As-constructed drawings submissions including RPEQ signoff.

<<insert details>>

Conflict of Interest Declaration and Confidentiality Agreement

Council of the City of Gold Coast
ABN 84 858 548 460
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Privacy Statement

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Key Information

Contract number: <insert contract number>

Contract title: <insert contract title>

This declaration is to be used by external parties to Gold Coast City Council (Principal) involved in any aspect of the Principals Invitation to Offer process.

I <insert contractors employees name>

of <Insert contractors Legal Company Name and address>

of <insert contractor employees private address>

Conflict Of Interest Declaration

In accordance with the Conditions of Offer I hereby declare that with regard to information supplied to the Principal:

1. Neither myself nor any partner or relative of mine has, either directly or indirectly, any interest, actual or perceived, other than as set hereunder, in any business associated with Principal's procurement activities. I do not consider that I or any partner or relative will obtain any benefit, gain or advantage by my involvement in Principal's procurement activities.
2. I warrant that before signing this declaration, I have disclosed on the reverse of this document all the past, current and anticipated interests, actual or perceived, which may conflict, with my impartial involvement in these activities.
3. I agree that during Principal's procurement activities I will not engage in any activity or obtain any interest likely to conflict with my impartiality in respect of information supplied. In the event that such an activity or interest arises, I will immediately disclose it to Chief Procurement Office, Council.

Signature (Electronic signatures accepted)

Date: DD/MONTH/YEAR

Confidentiality Agreement

In accordance with the Conditions of Offer I hereby undertake that any business related information, data or application systems, code and documentation ("information"), disclosed or provided to me by the Principal in connection with services performed by me for the Principal will be subject to the following obligations:

1. I will not, without the prior written consent of the Principal disclose the information to any person;
2. I will not use the information for any purpose whatsoever other than that for which it was provided by the Principal;
3. I will, on the written request of the Principal, return all the information other than that which is, or has been disclosed or provided orally; and
4. I will obtain no right of any kind in or to the information upon its receipt except for the purposes for which it is provided.

The foregoing obligations of confidentiality and non-use will apply for a period of ten years from the date hereof to all the information. Provided that the said obligations will not in any event apply to:

1. Information or any part which is in the public domain prior to the date hereof;

2. Information or any part which becomes public or available to the general public otherwise than through any act or default of mine; and
3. Information in respect of which the Principal in writing releases me from my obligations under this agreement.

Signature (Electronic signatures
accepted)

Date:

DD/MONTH/YEAR

Possible Conflict of Interest Declaration

In accordance with the Conditions of Offer I hereby declare that the following are all the past, current and anticipated interests, which may conflict, with my impartial involvement in Principal's Invitation to Offer Process.

(if none write NONE)

Signature (Electronic signatures
accepted)

Date:

DD/MONTH/YEAR

Deviations

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ABN 84 858 548 460

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Proposed Deviations, acceptance is at the discretion off the Principal in accordance with Clauses 11 and 12 of the Conditions of Offer

Section	Clause number	Proposed Deviations
Section 4: Specifications	<<insert clause number>>	<<insert details of proposed deviations>>
Section 5: Conditions of Contract	<<insert clause number>>	<<insert details of proposed deviations>>

Price Response forms

[Price Submission](#)

Price Submission

Council of the City of Gold Coast
ABN 84 858 548 460
cityofgoldcoast.com.au

Please use CAPS LOCK and complete all details in full.

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Tenderers declaration

I/We, the duly authorised delegate of the legal entity named below certify that in submitting this Price Submission, have read, understood and complied with the requirements of the Conditions of Offer, have the delegated authority to submit an Offer and have completed all response forms as a true and accurate account of the Invitation to Offer.

Legal business/entity name:

Schedule of Quantities and Prices: Milestones

Pay Item	Brief Description	Unit	Qty	Unit Rate (\$ excl GST)	Price (excl GST) (Qty x Unit Rate)
Milestone 1	Preparatory Works				
	Package 1 (Groups 1 and 2)				
1.01	All pre-start documentation.	Item	1		\$ -
1.02	Dilapidation survey.	Item	1		\$ -
1.03	Pre design investigation, site measurements and location of under ground services.	Item	1		\$ -
1.04	RPEQ endorsed design drawings and design report.	Item	1		\$ -
	Package 2 (Groups 3 and 4)				
1.05	All pre-start documentation.	Item	1		\$ -
1.06	Dilapidation survey.	Item	1		\$ -
1.07	Pre design investigation, site measurements and location of under ground services.	Item	1		\$ -
1.8	RPEQ endorsed design drawings and design report	Item	1		\$ -
	Package 3 (Groups 5, 6, 7, 8, 9, 10 and 11)				
1.9	All pre-start documentation.	Item	1		\$ -
1.10	Dilapidation survey.	Item	1		\$ -
1.11	Pre design investigation, site measurements and location of under ground services.	Item	1		\$ -
1.12	RPEQ endorsed design drawings.	Item	1		\$ -
	Package 4 (Groups 12, 13 and 14)				
1.13	All pre-start documentation.	Item	1		\$ -
1.14	Dilapidation survey.	Item	1		\$ -
1.15	Pre design investigation, site measurements and location of under ground services.	Item	1		\$ -
1.16	RPEQ endorsed design drawings	Item	1		\$ -
	Package 5 (WPS sites)				
1.17	All pre-start documentation.	Item	1		\$ -
1.18	Dilapidation survey.	Item	1		\$ -
1.19	Pre design investigation, site measurements and location of under ground services.	Item	1		\$ -
1.20	RPEQ endorsed design drawings.	Item	1		\$ -
Sub-total amount for Milestone 1 (To be carried forward to the Summary)					\$ -

This milestone must not exceed five per cent of the total lump sum amount.

Pay Item	Brief Description	Unit	Qty	Unit Rate (\$ excl GST)	Price (excl GST) (Qty x Unit Rate)
Milestone 2	Fabrication and Installation Works SPS Sites - Packages 1 to 4				
	Package 1 (Groups 1 and 2)				
	GROUP 1				
2.01	DA6: HALFWAY DR, ORMEAU.	Item	1		\$ -
2.02	DA8: BURNSIDE RD, YATALA.	Item	1		\$ -
2.03	DA9: NOTAR DR, ORMEAU.	Item	1		\$ -

2.04	OR1: GAWAIN DR, ORMEAU.	Item	1		\$	-
2.05	PA12: WARRABAH CL, PIMPAMA.	Item	1		\$	-
2.06	PA9: FOXWELL RD, COOMERA.	Item	1		\$	-
	GROUP 2					
2.07	D64: MELOSTOMA WAY, ARUNDEL.	Item	1		\$	-
2.08	D65: MADASIN CLOSE, ARUNDEL.	Item	1		\$	-
2.09	OX22: HELENSVALE RD, HELENSVALE.	Item	1		\$	-
2.10	OX25: OXENFORD-SOUTHPORT RD, OXENFORD.	Item	1		\$	-
2.11	OX45: KOPPS RD, OXENFORD.	Item	1		\$	-
2.12	UC14: RUSH CUTLER AVE, OXENFORD.	Item	1		\$	-
2.13	OX21: MONTEREY KEYS DRIVE, HELENSVALE.	Item	1		\$	-
2.14	D60: MALTRAVERS DR, ARUNDEL.	Item	1		\$	-
2.15	OX27: DALLEY PARK DR, HELENSVALE.	Item	1		\$	-
2.16	OX44: CASUARINA WAY, HELENSVALE.	Item	1		\$	-
2.17	UC20: GLENVIEW ROAD, UPPER COOMERA.	Item	1		\$	-
2.18	UC1: TAMBORINE/OXENFORD RD, UPPER COOMERA.	Item	1		\$	-
	Package 2 (Groups 3 and 4)					
	GROUP 3					
2.19	CO1: THE PARKWAY, HOPE ISLAND.	Item	1		\$	-
2.20	CO3: SANTA BARBARA RD, HOPE ISLAND.	Item	1		\$	-
2.21	CO6: PINAROO ST, HOPE ISLAND.	Item	1		\$	-
2.22	CO7: BABIRRA ST, HOPE ISLAND.	Item	1		\$	-
2.23	CO8:: BABIRRA ST, HOPE ISLAND.	Item	1		\$	-
2.24	CO11: CASEYS RD, HOPE ISLAND.	Item	1		\$	-
2.25	CO17: SOLO PLACE, COOMERA.	Item	1		\$	-
2.26	CO18: CONDOR DR, COOMERA.	Item	1		\$	-
2.27	CO23: SHEEHAN DR, HOPE ISLAND.	Item	1		\$	-
2.28	D26: RASON WAY, COOMBABAH.	Item	1		\$	-
2.29	D36: TEAL AVE / ESPLANADE, PARADISE POINT.	Item	1		\$	-
2.30	D37: PARADISE PDE, PARADISE POINT.	Item	1		\$	-
2.31	D38: THE SOVEREIGN MILE, PARADISE POINT.	Item	1		\$	-
2.32	CO15: BEATTIE RD, COOMERA.	Item	1		\$	-
2.33	CO21: SICKLE AVE, HOPE ISLAND.	Item	1		\$	-
2.34	OX9: HOPE ISLAND RD, HOPE ISLAND.	Item	1		\$	-
2.35	D17: MORALA AVE, RUNWAY BAY.	Item	1		\$	-
2.36	D63: KING ARTHURS CT, PARADISE POINT.	Item	1		\$	-
2.37	D67: KING CHARLES DR, PARADISE POINT.	Item	1		\$	-
2.38	D68: ROYAL ALBERT CR, PARADISE POINT.	Item	1		\$	-
	GROUP 4					
2.39	D13: BAYVIEW ST, RUNWAY BAY.	Item	1		\$	-
2.40	D16: STRADBROKE ST, BIGGERA WATERS.	Item	1		\$	-
2.41	D18: WHITING ST, LABRADOR.	Item	1		\$	-
2.42	D44: DOG POUND, COOMBABAH.	Item	1		\$	-
2.43	D54: PINE RIDGE RD, BIGGERA WATERS.	Item	1		\$	-
2.44	D56: CLEANAWAY DEPOT CAR PARK, ARUNDEL.	Item	1		\$	-
2.45	D9: BRISBANE RD, LABRADOR.	Item	1		\$	-
2.46	D10: CABARITA ST, BIGGERA WATERS.	Item	1		\$	-
2.47	D45: COOMBABAH RD, BIGGERA WATERS.	Item	1		\$	-
2.48	D47 KENNY DR, LABRADOR.	Item	1		\$	-
2.49	D57: BRISBANE RD, ARUNDEL.	Item	1		\$	-
	Package 3 (Groups 5, 6, 7, 8, 9, 10 and 11)					
	GROUP 5					
2.50	N4: PARKRIDGE DR, NERANG.	Item	1		\$	-
2.51	N17: RIVERWOOD DR, NERANG.	Item	1		\$	-
2.52	N5: EVERS ST, NERANG.	Item	1		\$	-
2.53	N9: STATION ST, NERANG.	Item	1		\$	-
2.54	UC18: MAUDSLAND RD, MAUDSLAND.	Item	1		\$	-
	GROUP 6					
2.55	D51: NAPPER RD, ARUNDEL.	Item	1		\$	-
2.56	A106: MUSGRAVE AVE, SOUTHPORT.	Item	1		\$	-
	GROUP 7					

2.57	A28: SLATYER AVE, SOUTHPORT.	Item	1		\$ -
2.58	A13: BENOWA RD, SOUTHPORT.	Item	1		\$ -
2.59	A21: KEN RUSSELL CT, BUNDALL.	Item	1		\$ -
2.60	A67: FRIGO CT, BENOWA.	Item	1		\$ -
2.61	A39: WATERWAYS DR, MAIN BEACH.	Item	1		\$ -
	GROUP 8				
2.62	SP50: PALM MEADOWS DR, CARRARA.	Item	1		\$ -
2.63	W2: HICKEY WAY, CARRARA.	Item	1		\$ -
2.64	W25: PALM MEADOWS DR, CARRARA.	Item	1		\$ -
2.65	W26: PALM MEADOW DR, CARRARA.	Item	1		\$ -
2.66	W52: BRIMINGHAM DR, CARRARA.	Item	1		\$ -
2.67	W46: KINGARRY CRT, MERRIMAC.	Item	1		\$ -
2.68	W57: NERANG BROADBEACH RD, CARRARA.	Item	1		\$ -
2.69	A98: REED ST, ASHMORE.	Item	1		\$ -
2.70	W1: NIELSENS RD, CARRARA.	Item	1		\$ -
2.71	W28: SPALL ST, CARRARA.	Item	1		\$ -
	GROUP 9				
2.72	W42: RUSH WORTH ST, WORONGARY.	Item	1		\$ -
	GROUP 10				
2.73	SP7: CYPRESS DR, BROADBEACH WATERS.	Item	1		\$ -
2.74	A100: ROSSER PARK, ASHMORE.	Item	1		\$ -
2.75	A104: SIR BRUCE SMALL BLVD, BENOWA.	Item	1		\$ -
	GROUP 11				
2.76	SS27: CHATSWOOD DR, ROBINA.	Item	1		\$ -
2.77	SS34: MORINGTON TCE, ROBINA.	Item	1		\$ -
2.78	SS39: HIGH SCHOOL RD, ROBINA.	Item	1		\$ -
2.79	SS63: CHELTENHAM DR, ROBINA.	Item	1		\$ -
2.80	SS75: CHELTENHAM DR, ROBINA.	Item	1		\$ -
	Package 4 (Groups 12, 13 and 14)				
	GROUP 12				
2.81	SS12: MANKIN AVE, BURLEIGH WATERS.	Item	1		\$ -
2.82	B40: GOLD COAST HWY, BURLEIGH WATERS.	Item	1		\$ -
2.83	B55: JUSTIN PARK, BURLEIGH HEADS.	Item	1		\$ -
2.84	SP37: ALEC AVE, MERMAID WATERS.	Item	1		\$ -
2.85	SP38: KARBUNYA ST, MERMAID WATERS.	Item	1		\$ -
2.86	B39: LONDON CT, MIAMI.	Item	1		\$ -
2.87	SS13: ORR PL, BURLEIGH WATERS.	Item	1		\$ -
2.88	SS14: BARDON AVE, BURLEIGH WATERS.	Item	1		\$ -
2.89	B38: CNR TOWNSHIP DR & TSIPURA DR	Item	1		\$ -
2.90	B31: SURF ST, MERMAID BEACH.	Item	1		\$ -
2.91	SS48: SERVILE CIRCUIT, BURLEIGH WATERS.	Item	1		\$ -
2.92	SS49: REEDY CREEK RD, BURLEIGH WATERS.	Item	1		\$ -
	GROUP 13				
2.93	C25: CASUARINA DR, ELANORA.	Item	1		\$ -
2.94	B13: TALLERBUDGERA FITNESS CAMP, PALM BEACH.	Item	1		\$ -
2.95	B26: PARNKI PDE, PALM BEACH.	Item	1		\$ -
2.96	B52: MALLAWA DR, PALM BEACH.	Item	1		\$ -
2.97	B53: MYRTLE CT, PALM BEACH.	Item	1		\$ -
2.98	C7: MCGARTH DR, ELANORA.	Item	1		\$ -
2.99	C5: MURTHA DR, ELANORA.	Item	1		\$ -
2.100	C6: MURTHA DR, ELANORA.	Item	1		\$ -
2.101	B9: NINETEENTH AVE, ELANORA.	Item	1		\$ -
2.102	B10: REES CT, ELANORA.	Item	1		\$ -
2.103	C21: NINETEENTH AVE, ELANORA.	Item	1		\$ -
2.104	C26: WATER GUM ST, ELANORA.	Item	1		\$ -
2.105	C32: BAEKEA DR, ELANORA.	Item	1		\$ -
2.106	B16: LAGUNA PDE, PALM BEACH.	Item	1		\$ -
2.107	SS43: GLAUCA ST, ANDREWS.	Item	1		\$ -
	GROUP 14				
2.108	C11: QUEENSBURY AVE, CURRUMBIN WATERS.	Item	1		\$ -

2.109	C9: NOOJEE ST, CURRUMBIN WATERS.	Item	1		\$	-
Sub-total amount for Milestone 2 (To be carried forward to the Summary)					\$	-

Pay Item	Brief Description	Unit	Qty	Unit Rate (\$ excl GST)	Price (excl GST) (Qty x Unit Rate)
Milestone 3	Fabrication and Installation Works WPS Sites				
	Package 5				
3.01	PUC2: WIMBELDON WAY, OXENFORD.	Item	1		\$ -
3.02	PN2: CASTLE HILL DR, GAVEN.	Item	1		\$ -
3.03	PM03, KINGSWAY DR, MOLENDINAR.	Item	1		\$ -
3.04	PMU2: EARLE CRT, TALLAI.	Item	1		\$ -
3.05	PMU4, SUMMERHILL CRT, MUDGEERABA.	Item	1		\$ -
3.06	PMU13: GLENMORE DR, BONOGIN.	Item	1		\$ -
3.07	PW6: GLENROWAN DR, TALLAI.	Item	1		\$ -
3.08	PMU8: STRAWBERRY ROAD, MUDGEERABA.	Item	1		\$ -
3.09	PT7: WATTLEBIRD CRT, CURRUMBIN VALLEY.	Item	1		\$ -
3.10	PG2: NATHAN RD, NERANG	Item	1		\$ -
Sub-total amount for Milestone 3 (To be carried forward to the Summary)					\$ -

Pay Item	Brief Description	Unit	Qty	Unit Rate (\$ excl GST)	Price (excl GST) (Qty x Unit Rate)
Provisional Items for SPS Sites					
4.01	Supply and installation Type 3 bollards.	Item	10		\$ -
4.02	Supply and installation Type 4 bollards.	Item	10		\$ -
4.03	Remove concrete hob (or similar concrete protrusions) and make good concrete surface.	m	60		\$ -
4.04	Design and construct irregular shape concrete.	m ²	50		\$ -
4.05	Design and construct straight concrete strip slab.	m	50		\$ -
4.06	Design and construct curved concrete base strip.	m	25		\$ -
4.07	Supply, fill and level top soil.	m ³	60		\$ -
4.08	Supply, lay and establish turf.	m ²	200		\$ -
Sub-total amount for Provisional Items (To be carried forward to the Summary)					\$ -

Summary of Schedule of Milestones and Provisional Items

Milestone	Description	Amount (exl GST)
1	Preparatory Works for Packages 1,2,3,4 and 5.	\$ -
2	Fabrication and Installation Works (SPS Sites). Packages 1,2,3 and 4.	\$ -
3	Fabrication and Installation Works (WPS Sites). Package 5.	\$ -
	Provisional Items for SPS sites.	\$ -
Total Lump Sum amount for Sections 1, 2, 3, and Provisional Items.		\$ -

General Notes applying to Lump Sum Milestone Contracts

Milestone payments which when summated provide an all inclusive, firm price / fixed fee basis inclusive of disbursements taking into account the constraints and deliverables of this contract.

The information entered in the Schedule will be used for assessing tenderer's appreciation of the scope of the work, for approving progress payments, and for valuing variations.

Make all allowances in the Lump Sum and in the prices submitted in the Schedule of Quantities and Prices for all temporary facilities, transport fees, overheads, profit, and all equipment, material and work necessary for the completion of the Contract.

The extent of works to be carried out is defined by the Specifications, drawings and other contents of other information supplied in the Invitation to Offer Documents.

The quantities shown in the Schedule are based on the Principal's estimated requirements for the Contract.

'Provisional Quantities', 'Provisional Items' and 'Provisional Sums' entered in the Schedule are to be used in arriving at the Tender Amount, but are subject to re-measure with payment made at the Scheduled Rate (unless otherwise provided for) on the finally agreed quantity.

Check the accuracy of the information entered in the Schedule of Quantities and Prices prior to submitting the tender. No claim relating to errors in the Schedule will be considered after the awarding of the Contract.

The actual quantity to be completed may be more or less than those listed in the Schedule.

The Principal accepts no responsibility or liability for any difference between the quantities stated in the Schedules and the actual quantities.

All rates to be exclusive of GST.

Refer to the Contract Header for Rise and Fall applicability.

Specifications



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Part A: General

1. Interpretation

Unless implied to the contrary, all directions in this section onwards of this document are addressed to the Contractor. Except where the context otherwise requires, the following are applicable.

- any reference to 'Allconnex Water' in accordance with recent governmental water reform (effective 1 July 2012) is to be replaced by the 'Principal'.
- 'apply', 'carry out', 'rectify', 'ensure', 'supply', 'install', 'reinstate', and similar expressions means by the Contractor and included in the contract price and/or rates unless specified otherwise.
- 'approved', 'directed', 'required', 'rejected', 'accepted' and similar expressions means approved, directed, required, rejected, 'accepted' and the like, by the Superintendent.
- 'environmental laws' means in respect of the land and buildings the subject of Contract and the use to be conducted by the Contractor pursuant to the contract, any law (whether Commonwealth, state or common law), orders, notices, consents, regulations, authorisations, approvals and permits or any authority relating to or dealing with the following.
 - Planning and land use.
 - The environment.
 - Health.
 - Any contaminant or hazardous substance or material.
 - The use, storage or transportation of a contaminant or hazardous substance.
 - The disposal, discharge or treatment of a contaminant or hazardous substance.
 - The spill or leakage of a contaminant or hazardous substance.
 - The treatment, containment or removal of a contaminant or hazardous substance.
 - The remediation of land.
- 'give notice', 'submit', 'furnish', and similar expressions means give notice, submit, furnish, and the like, to the Superintendent.
- 'responsible authority' means a local government or any government (state or federal) department or other agency charged with the responsibility of administering or enforcing legislation.
- 'Works Inspector', 'Principal's Inspector', 'Job Inspector' means a duly authorised person required to enter onto the work site to inspect and/or measure some aspect associated with or effected by the works on behalf of a government or statutory authority or Superintendent approved organisation.
- Where 'builder' is stated this will be read as Contractor.
- Where 'Architect', 'Engineer' is stated this will be read as Superintendent.
- Where 'Proprietor' or 'Owner' is stated this will be read as Principal.

2. Definitions

Further to Section 5: Special Conditions of Contract, Clause 2, the following are applicable:

AS: Australian Standards.

ARMP: Approved Risk Management Plan.

As-constructed drawings include as-executed drawings or as-installed drawings.

CEMP: Construction Environmental Management Plan.

CCR: Council Contract Representative, the person nominated by the Principal to exercise the functions of the Principal relating to the Contract, or other person nominated from time to time by the Principal.

DBYD: Dial Before You Dig.

DEHP: Department of Environment and Heritage Protection.

FSL: Finished Surface Level.

GCRT: Gold Coast Rapid Transit.

GIS: Geographic Information System, being a system for capturing, storing, analysing and managing data and associated attributes which are spatially referenced to the earth.

GPR: Ground Penetration Radar.

HSE: Health, Safety and Environment.

ITP: Inspection and Test Plans.

kg: Kilograms.

MP: Megapixels.

MUTCD: Queensland Government Department of Transport and Main Roads Manual of Uniform Traffic Control Devices.

NATA: National Association for Testing Authorities Australia.

PPE: Personal Protective Equipment.

PS: Pumping Station.

PSM: Permanent Survey Marks.

PUP: Public Utility Plant.

QAS: Quality Assurance System.

RFI: Request For Information.

RPEQ: Registered Professional Engineer of Queensland.

SEQ D & C code: South East Queensland Water Supply and Sewerage Design and Construction Code.

SMP: Safety Management Plan.

SPS: Sewerage Pumping Station.

SWMS: Safe Work Method Statement.

TMR: Queensland Department of Transport and Main Roads.

TMP: Traffic Management Plan.

WHS: Work Health and Safety.

WMS: Work Method Statement.

WPS: Water Pumping Station.

3. Relations with others

Be prepared to work while other contractors/workers are present on the same site, but not directly involved with the works. In addition, be prepared to work while members of the public are in the same general location.

Ensure that these other works are not affected in any way by Works under this Contract.

4. Continued operation of existing facilities

Whilst every attempt will be made to roster ongoing operations and functions such that they will be independent of these Works, some unavoidable overlap or interference may result. Report these to the Superintendent and be prepared to work around these situations until the potential for conflict has been resolved. Ensure that minimal disruption to existing services and to the operation of the site occurs. Liaise with the Superintendent to be proactive in avoiding disruption, and reactive in attending to conflict situations.

5. Supervision by Contractor

Provide a full time competent and experienced Technical Site Representative (Supervisor) and Project Manager, for the duration of the Contract. Full details, including name and telephone numbers, of the proposed Site Representative and Project Manager must be supplied in writing to the Superintendent prior to commencement of the Works.

6. Notification to the Superintendent

Provide the Superintendent with a Notification of Intention to Commence Works not less than two working days prior to the date of intended commencement of site activities. Commencement of site activities in this context includes any activities associated with site establishment, milestones, or key activities within milestones.

Notify the Superintendent immediately if during any stage of the Works conditions are identified that prevent execution of the requirements of this Specification. Include in the notification a proposal for a Provide the Superintendent with notification not less than two working days prior to any activities likely to require special site access requirements, or likely to have an impact on other aspects of operation, or require the involvement of the Principal's operational personnel.

7. Provision of assistance

Provide assistance to the Superintendent to remove obstacles, and provide facilities for the checking of line and level of all Works and for measuring up and recording by the Superintendent of all works of the Contract.

8. Inspection

Further to clause 31 of the General Conditions of Contract no claim for delay will arise from the giving of insufficient or unreasonably short notice in respect of inspections. The minimum notice required by the Superintendent to undertake an inspection is two working days.

9. Daywork records

Refer to Section 5: Conditions of Contract. Record of Daywork must include the following:

- Date of work and location.
- Plant used - description, fleet or registration number, ownership, hours worked. (Also on 'stand by', under maintenance, in transit, or in any other mode).
- Labour used - names and classification of personnel, and hours worked.
- Materials used - type, size manufacturer/supplier, quantity, intended use, and any other relevant details.
- General - notes concerning weather, operating conditions, constraints, progress and any other relevant details.

10. Dimensions and levels

Do not rely on dimensions and levels undertaken by the Principal. Obtain or check all measurements before commencing work. Verify details of existing work before altering or adding to it. Report any discrepancies to the Superintendent. If individual (spot) levels are shown on the drawings, these take precedence over contour lines and ground profile lines.

11. Traffic control

Provide for continuous operation of normal traffic along all public and private roads, walkways and pedestrian and vehicular access to properties or intersected by roads or drains included in the Contract. Be entirely responsible for the control and safety of all pedestrian and vehicular traffic at or near the worksite.

All signs, barriers, lights and other devices used must, as a minimum standard, conform to the requirements of the current MUTCD. Engage licensed traffic controllers to manage and provide temporary traffic sign posting to ensure the safety of the Works, pedestrians and traffic.

Obtain and comply with the requirements of all permits and/or approvals necessary for traffic control.

Do not close or partially close any street or road without prior written approval of the Superintendent. Give the Superintendent a minimum of three weeks' notice of any proposed closure or partial closure of any road.

Any proposed closure of a roadway, either in total or any part thereof, is subject to lodging all appropriate road closure applications forms with the relevant department, and arranging the preparation and lodgement of any supplementary information requested by each department to support the proposed road closure. All fees associated with the administration of road closure applications must be paid by the Contractor.

For works located within any of the Principal's sites or property, arrange and ensure safe and controlled use of any plant access roads where necessary for the Works within the relevant Site or property.

12. Access to private property

Some works under this Contract may occur within private property. Do not enter onto private property unless:

- the person proposing to enter onto private property has been appointed by the Principal as an Authorised Person in accordance with the Water Supply (Safety and Reliability) Act 2008; and
- entry is necessary in order to undertake issued work in that property.

Under no circumstances enter residences or associated buildings without:

- being accompanied by the owner and the Superintendent; and
- obtaining the prior written consent of the resident for the purpose for which entry is sought.

Make every effort to minimise obstruction to private property. Maintain safe and reasonable personal access to properties at all times. Provide temporary vehicular/pedestrian access if permanent access cannot be provided.

Comply with the directions of the Superintendent that facilitate limiting reasonably unavoidable inconvenience to any residents of the property disrupted by the works.

13. Notification of proposed works or disruption to service

Liaise with the Superintendent in relation to public relations prior to commencement of the Works and/or prior to commencement of any specific activities likely to involve a disruption of service to the Principal's customers.

All residents and businesses in the vicinity of the Works who will be, or have the potential to be, affected by the Works, including being affected by the noise of the Works, must be notified by a Notification of Proposed Works Notice.

Pursuant to Part B: Project Specific, where the Superintendent has agreed to undertake works involving a disruption to the provision of a service to the Principal's customers, all residents and businesses who will be affected by the Works must be notified by a Shutdown Notice.

Through the Superintendent, the form and content of the proposed notice will be subject to the agreement of the Principal. Details of the works and format of the proposed notice must be forwarded in writing to the Superintendent no less than 14 business days in advance of the intended date for commencement of the works. The draft notice must as a minimum include details of the following:

- Description of work to be done.
- Expected date(s) and times for the work to be undertaken.
- Details of service expected to be disrupted, and duration of disruption.
- Access requirements to site if interfacing with public or private areas.
- Contractor's contact name and telephone number.

The proposed notice must be finalised no less than 10 business days prior to the commencement of work, together with agreement on the distribution area, number of copies and proposed distribution date, prior to delivery of the notice.

The Superintendent arranges for the production of letters on the Principal's letterhead and will advise when the copies of the notice are available for pick-up, at least three days prior to the proposed notice distribution date.

Notices are required to be distributed not less than 48 hours prior to the proposed commencement of the works referred to within the notice.

Within 24 hours of the completion of the distribution of the notices submit to the Superintendent a statement confirming:

- The date and time of completion of the distribution of the notice.
- The date or dates upon which the notices were distributed.
- The number of notices issued and distribution area.

- Any issues arising during the process of the distribution of notices and processes proposed to improve distribution of any future notices.

Do not change any of the details within the notice without the prior agreement of the Superintendent. Should the proposed works be rescheduled for any reason and the rescheduled date of works be agreed by the Superintendent, a new notice will be required and the process and associated timelines as described above will recommence.

14. Inspection of adjoining properties

Ensure minimal disruption and no damage occurs to any private or public property, that no existing access to the Site or its adjacent properties is restricted, and that no services are interrupted without the written permission of the Superintendent.

Where relevant, arrange a joint inspection with the Superintendent of the adjoining/potentially affected properties. Arrange this for prior to commencement and on completion of Work.

Assess the need to make detailed records of existing conditions, especially of structural defects and other damage or defacement. Have two copies of each record (including drawings, written descriptions and photographs) to be endorsed by the resident or their representative as evidence of the conditions. Provide one endorsed copy of each record to the Superintendent. Keep the other endorsed copy on Site.

15. Encroachments

Do not demolish or damage adjoining property. Should the Works reveal encroachments of adjoining property on to the site or encroachments of existing site structures on to adjoining property, and should such encroachments not be referred to in the Contract, obtain instructions from the Superintendent immediately.

16. Environmental control

Comply with the provisions of all environmental protection provisions.

Do not form new tracks, alter existing tracks, erect camps, remove trees or shrubs, cut fences, water, sewerage or power lines or any other such things without the written approval of the Superintendent.

Restrict dust caused by Works to a minimum. Take all practical steps to minimise noise resulting from Work.

Dispose of litter and debris at an appropriately licensed waste disposal facility.

17. Environmental and construction management

The Principal has AS/NZS ISO 14001 accreditation and requires Works to meet the aims and objectives of the standard in minimising the impact of the Works on the environment.

Undertaken Works in accordance with an Environmental and Construction Management Plan. The Plan must demonstrate ongoing compliance.

The Plan must comply with the standards of work for an Environmental and Construction Management Plan as detailed in Section 5: Special Conditions of Contract Clause 2 and meet all Environmental Protection Agency requirements for the nominated Sites. The existence of the Environmental Management Plan must be demonstrated to the Superintendent.

Do not lop the branches of any trees or shrubs, either located on a public road, public area or privately owned land except with the approval of the Superintendent and then only in accordance with such conditions as stipulated by the relevant approval or the Superintendent.

Any unauthorised damage to foliage outside the works site will be subject to full restoration by the Contractor and at the Contractor's cost, and be subject to the associated penalties of the relevant Local Government Authority and DEHP requirements.

All equipment and machinery (including generators, pumps and compressors) used outside normal working hours must be driven by electric power. If this requirement is considered not reasonable for a particular instance, apply to the Superintendent for permission to use other means of power. The Superintendent will grant such permission only if satisfied that it is not reasonable to insist on electric power and that all reasonable steps to minimise noise is taken.

No vehicles will be driven or parked on grassed areas, resident's lawns, or driveways, unless it is within a construction area identified and approved by the Superintendent.

18. Protection of flora

Protect from damage all trees and other plants which:

- are shown or specified to be retained
- are beyond the limits allowed to the Contractor
- need not be removed or damaged for construction operations.

Obtain the written approval of the Superintendent prior to removal of any tree or plant.

Do not disturb marine plants, as defined by and protected under the *Fisheries Act 1994*, without written approval from the Department of Agriculture, Fisheries and Forestry. Refer to Part B: Project Specific for details specific to this Contract, if relevant.

19. Storage on site

Do not use roads, driveways, paths, hardstandings and the like forming part of the Works for access or storage unless prior written approval has been given by the Superintendent. Such approval will not be withheld unreasonably.

Store materials and equipment on Site so as to prevent deterioration of materials and equipment, prevent damage to the Site, and to minimise hazards to persons, materials and equipment. Keep storage areas neat and tidy.

20. Disposal of contaminants or hazardous materials

Dispose of solid, liquid and gaseous contaminants or hazardous materials in accordance with statutory requirements, as follows:

- Solids - remove from Site to a recognised/approved location, or as approved or directed by the Superintendent.
- Liquid - subject to statutory and local requirements, dilute with water until an acceptable level of quality is achieved for discharge into the public sewer (wastewater) system. Provide Superintendent with evidence that the key criteria for discharge have been met. Alternatively, store in approved vessels for disposal at approved locations.
- Gaseous - discharge to atmosphere such that they will be diluted with fresh air to reduce its toxicity to an acceptable and safe level.

21. Asbestos

Unless otherwise stated, if asbestos in any form is found on the Site of the Works, immediately stop operations affected by the discovery. Seek direction from the Superintendent, and await instructions.

22. Disposal of refuse

Remove from the Site refuse (including food scraps and the like) resulting from Works. Handle refuse in a manner so as to confine the material completely and prevent any emission or spillage.

Store all food scraps and the like in suitable containers with a close fitting lid. The container is to be vermin proof and resistant to disturbance by dogs, cats and birds.

23. Disposal of spoil

Unless otherwise specified, remove all spoil not required as part of the Works from the Site. Pay all tipping fees at Council waste disposal facilities. These fees are not refundable.

24. Transport of materials

Convey soils, earth, sand, loose debris, and similar loose materials to or from the Site in a manner that will prevent dropping of materials on streets. Cover all loads with taut heavy-duty purpose fitted tarpaulins to ensure no loss of load or dust. Ensure that the wheels, tracks and body surfaces of all vehicles and plant leaving the site are free of mud, and that mud is not carried on to adjacent paved streets or other areas. This may require a wash bay on Site.

Be aware of legal obligations if moving restricted items from or within Fire Ant Restricted areas. Refer https://www.daf.qld.gov.au/data/assets/pdf_file/0007/167812/RIFA-restricted-area-SEQ.pdf. This includes understanding the risks of spreading fire ants and developing strategies to address these risks. Refer <https://www.daf.qld.gov.au/plants/weeds-pest-animals-ants/invasive-ants/fire-ants>. Strategies to address risks must be included in a Fire Ant Risk Management Plan which must be approved by a Biosecurity Queensland inspector. Follow the ARMP to prevent the spread of fire ants. A copy of the ARMP must be provided to the Superintendent prior to commencement of any site works.

25. Waste tracking

Legislation requires all handlers (being generators, transporters, and receivers) of Trackable Waste, as defined in Schedule 1 of the *Environmental Protection (Waste Management) Regulation 2000*, to record prescribed information about the waste.

Where applicable record the prescribed information about the trackable waste as detailed in Schedule 2 of the Regulation. Provide this information to DEHP on the approved form, or in any other prescribed manner.

DEHP's approved form is available from all DEHP offices. Obtain approval from the Chief Executive of DEHP before using any other method to record and report the trackable waste.

26. Existing services

Unless instructed otherwise, deal with existing services (such as drains, watercourses, public utility and other services) encountered, obstructed or damaged in the course of performing the work under the Contract, as follows.

- If the service is to be continued, repair, divert, and relocate as required.

- If the service is to be abandoned, cut and seal, or disconnect and make safe.

Unless a pay item is provided for this work (and provided that the existence of the services was reasonably ascertainable by you from the appropriate authority or from visual inspection on or adjacent to the Site, or which are shown on the drawings or are described in the tender documents), include the cost of dealing with this elsewhere in the tendered rates or lump sum.

In the event of any discrepancy between location drawing information and physical location of the existing underground services the service provider must be asked to attend site to confirm the accuracy of the location drawing information. Work with the service provider to locate/confirm the existing underground services. Under boring or excavation must not commence until approval documents and sign off is received from the service provider that work can continue.

27. Temporary works

Alter, adapt and maintain temporary works as necessary and remove them progressively as the work proceeds, unless otherwise specified or instructed.

Obtain the written consent of the Superintendent for the inclusion in the Works of any temporary work which it is proposed to leave in position at the completion of the contract.

28. Stormwater drainage

In addition to precautions and measures required in respect of erosion and sedimentation control, be responsible for the proper drainage of the site and of all works during the contract period. Provide sufficient materials, labour, pumps, equipment, cut-off drains and any other necessary facilities to protect the Works.

Any delays, repair of damage or restoration work resulting from flooding occurring as a result of normal rainfall, or from drainage inadequacies relative to such rainfall, will not be grounds for extension of time or for any extras to the contract. Normal rainfall is defined as the average monthly total for each month and the average storm event occurring in that month, as recorded (over the past 10 years prior to the closing of tenders) at the nearest rainfall station to the site.

29. Joining up

Where required, carry out the joining of new work to existing work and any consequent cutting away, in a manner appropriate to the materials and make good to existing work.

Provide a smooth, uniform and suitable grading of pavements and the like between existing and new work where level or alignment differences occur as the result of unavoidable mismatches. Seek directions from the Superintendent as to the limits of such gradings and the like.

30. Temporary fence

Where a temporary fence is shown on the drawings or required for safety or security, enclose the area with a fence with secure gates. Remove on completion and reinstate to the Site.

31. Temporary services

Provide and maintain temporary services, including telecommunications, necessary for the execution of the work under the Contract. Install such services in accordance with the requirements of the relevant authorities. Connect to existing services if these are present and available for use. Make all arrangements for such connections and disconnections including full reinstatement of the site affected by

these connections. Pay charges in connection with the installation and use of such services. On completion, disconnect temporary services and clear away all traces.

If available, water for construction purposes may be drawn from the existing metered supply. If in the opinion of the Superintendent, water is being wasted or more water than is necessary is being used, the Superintendent at his discretion may curtail supply or impose a water charge.

If there is a water reticulation system, but no existing metered connection, arrange for a metered standpipe from the Principal. Phone the Customer Service Centre on 1300 000 928 for information on security deposits, hire charges, cost of water, payment arrangements, and to arrange for standpipe(s) as required.

Pay for water used from the Principal's supply reticulation system for the works at the current rate stipulated in Register of General Charges. Be responsible for the adequacy of quality and flow quantities for the intended use.

Supply may be drawn from the existing supply at locations as/if indicated on the drawings. Otherwise determine the location and delivery method for water required for the works direct from the Principal.

Comply with requirements of the Principal for taking of water from fire hydrants.

32. Communications

Supply and maintain a method of communications between the office and site crews that is acceptable to the Superintendent.

Provide mobile telephones or equivalent mode of communication for on-site communications with the Superintendent.

Supply and maintain a facsimile machine and/or email, which must be contactable by the Superintendent at all times.

33. Trades and best practice

Undertake all specialised work in accordance with regulations and requirements of the relevant trade involved, and in accordance with accepted best practice.

Liaise with the Superintendent should any doubts arise as to the standard of equipment or installation required.

34. Standards

Current Editions: An Australian or other standard applicable to the Works will be the edition last published not later than one month prior to the closing date for tenders.

Site Copies: Keep on the Site a copy of each standard referred to in the specification which specifies site operations or site codes of practice.

35. Worker's compensation insurance

In cases where the *Workers' Compensation and Rehabilitation Act 2003* does not require the Contractor to effect a policy of insurance (by virtue of all work being carried out by sub-contractor for any other reason), effect a minimum premium Queensland Workers' Compensation Policy nevertheless.

36. Reinstatement

Unless otherwise specified, reinstate all existing surfaces, items, structures and anything disturbed or damaged by the performance of the Works, to the condition at the commencement of the contract, other than those forming part of or directly modified by the new work.

Before the Superintendent will issue a Certificate of Practical Completion, in addition to the requirements of Section 5: Conditions of Contract, carry out the following.

- Remove and cart away debris, spoil and surplus materials from the Site.
- Leave the Site clean, tidy and reasonably fit for use by the Principal.
- Ensure that all temporary measures of dealing with stormwater have been removed, and the Site is acceptable to the Superintendent to deal with normal rainfall.
- Reinstate all surfaces and access to properties.
- Replant all planted/grassed areas disturbed by construction activities.

Unless otherwise specified, all reinstatement costs will be to the account of the Contractor.

37. Progress reporting

Fortnightly progress reports must be submitted which include construction progress in comparison to the proposed program.

Progress reports are to contain the following information:

- Reporting Period.
- Major activities achieved during the report period.
- Actual progress versus scheduled progress. The original program issued prior to site establishment to the Superintendent (which must reflect key timings of milestones and practical completion) is to be utilised as the baseline program for progress monitoring throughout the construction and is to be displayed and issued within each progress report.
- HSE issues/incidents.
- Non-conformances addressed.
- Complaints.
- Arising issues and/or outstanding actions including RFI from:
 - Contractor
 - Principal
 - Authorities
 - Others.

Develop a progress report template to include each section above for the progress report which is required to be completed and is not to be left blank. Progress reports are to be issued by email by close of business fortnightly on Friday, or otherwise agreed to by Superintendent.

Progress report meetings involving the Superintendent are required to occur monthly, or as required by either party. The progress report is required to be submitted at least two working days prior to the progress meeting. Minute the progress meeting and forward to the Superintendent for confirmation. The agenda framework for the meeting may be subject to change and be along the lines of:

- Actual progress versus scheduled progress.
- Scope changes/variations.
- Non-conformances.

- Construction related issues.
- Complaints/Incidents (Safety, Environmental, and/or otherwise).
- Other business.

38. Progress claims

Further to Invitation To Offer: Section 5 Conditions of Contract, within 10 days of the date of acceptance of tender, and/or at the same time as submitting a revised or updated program of work, submit a schedule of the anticipated progress statements (progress claims) which will be made throughout the Contract. Supply a revised schedule with each claim.

39. Site meetings

Site meetings attended by the Contractor, appropriate subcontractors and the Superintendent, will be held throughout the duration of the Contract at a frequency determined by agreement between the Superintendent and the Contractor.

Keep minutes of such meetings and provide copies to each party within three working days after each meeting.

At the first site meeting submit the names and telephone numbers of all responsible persons who may be contacted after hours during the course of the Contract.

40. Items supplied by Principal

Where materials and other items are specified to be supplied free of charge to the Contractor for use in the execution of the Works, take delivery of the materials and thereafter be responsible for them.

41. Quality assurance

If a quality system elements category is specified for any part of the Works, implement the procedures necessary to satisfy the requirements of that category.

42. Commissioning equipment

Ensure that all equipment and features are commissioned and tested with the knowledge of the Superintendent. Give the Superintendent at least 24 hours notice of any inspections or commissioning requirements.

Ensure that qualified personnel (preferably from the supplier or manufacturer) are present at the commissioning stage, so that the Superintendent and/or operating staff may receive a thorough knowledge of the operating system including the maintenance requirements.

43. Manufacturer's recommendations

Use manufactured items in the Works in accordance with the current published recommendations of the manufacturer relevant to such use.

44. Samples

Items in respect of which samples are specified must be in accordance with an approved sample, or within a range defined by approved samples. Keep approved samples in good condition on the Site until the issue of the Certificate of Practical Completion.

Where the Contract requires the Contractor to provide samples, be solely responsible for the consequences of delay resulting from failure to allow reasonable time for the assessment and approval of the samples, or from the rejection of samples which do not comply with the specification.

45. Proprietary items

A proprietary item is any item identified by graphic representation on the drawings, or by naming one or more of the following: manufacturer, supplier, installer, trade name, brand name, catalogue or reference number, and the like.

The identification of a proprietary item shall not necessarily imply exclusive preference for the item so identified, but shall be deemed to indicate the required properties of the item. An alternative item with the required properties may be considered for acceptance at the Superintendent's discretion.

When submitting an alternative item for approval submit sufficient information to permit evaluation of the proposed alternatives including evidence that the performance is equal to or greater than that specified.

If requested obtain and submit reports on relevant tests by an independent testing authority. State whether the use of the alternative will require alteration to any other part of the Works.

46. Sealed containers

Materials and products supplied by the manufacturer in closed or sealed containers or packages must be brought to the point of use in the works in the original unbroken container or package, otherwise they may be liable to rejection.

47. Testing

Any sampling and testing required to be by an independent testing authority must be carried out by an authority registered with the NATA to perform the specified sampling and testing. Arrange and pay for such testing as required.

48. Manufacturer's guarantees

Before applying for a Certificate of Practical Completion, provide the Superintendent with copies of all guarantees in respect of manufactured items of equipment or features.

49. Warranties

Prior to the commencement of any site establishment complete a draft warranty request, for each proposed coating system, in conjunction with each and every coating system supplier and submit a copy of all draft warranties for inspection and approval by the Superintendent. Warranties must be in a form approved by the Superintendent prior to the commencement of supply or application of relevant products.

Warranties for coating systems are required to warrant the finished product and must therefore incorporate all products applied to achieve the coating system, together with the method of surface preparation and the application method for the coating products. The Contractor and the coating product supplier will therefore be required to establish and implement inspection and testing procedures throughout the period of the Works to verify and endorse that all steps involved in the preparation of surfaces and application of coating products are undertaken in accordance with, and inspected and tested in accordance with, the product manufacturers recommendations and requirements.

Ensure that all warranty entitlements include the Principal and the Contractor as named beneficiaries. Warranties must be in a form approved by the Superintendent and be provided prior to the issue of the Certificate of Practical Completion.

50. Maintenance

Before applying for a Certificate of Practical Completion, provide instructions and a recommended maintenance schedule for all items supplied and installed, along with details of model (reference numbers or similar), manufacturer and/or supplier.

51. Information supplied by the Principal

Where information is supplied by the Principal, the following is applicable.

- The ownership, copyright and intellectual property rights of such information is retained by the Principal.
- The provision is on a one-time basis only, and does not imply or infer maintenance or the issue of updates/addendum.
- Do not supply, use or on-sell this to any third party, either in part or in total.
- Allow the information to be used for internal use for this Contract only, by an employee in any location in any appropriate manner.
- Take all responsible steps to maintain and safeguard the confidentiality of the information.
- The Principal is unable to guarantee the accuracy or completeness of it for this or any other purpose.
- This is supplied in good faith and without prejudice.
- The Principal does not represent that any information made available shows completely the existing site conditions as it may contain errors, omissions or be misleading.
- The Principal is not responsible for any interpretation, deductions and conclusions made by the Contractor from the information made available and the Contractor must accept full responsibility for any interpretations, deductions or conclusions.
- The information is made available to inform the Contractor of the Principal's investigations and the Contractor must, in formulating their working methods and programs, assess the information contained in the documents and make allowance for such assessments.
- Where cadastral information is supplied in digital form, the following are applicable.
- Execute a 'Standard Licence Deed for Consultants Use of Licensed Data Products' - Schedule E of the Digital Cadastral Data Standard Licence Agreement for Distribution/Value Adding between The State of Queensland and the Principal.
- Negotiate direct with DEHP to facilitate the execution of the licence.
- Such information will not be supplied until evidence of the above-mentioned has been provided.

52. Use of specifications from TMR

When Standard Specifications from TMR are included in these specifications, delete the references to the General Conditions of Contract made in MRS01, and replace them as follows.

- Replace reference to Clause 42.2 with 42.2 of AS2124 (General Conditions of Contract).
- Replace reference to Clause 42.8 with 42.8 of AS2124 (General Conditions of Contract).
- In Clause 2.1.7 (Provisional Quantities and Provisional Items) of MRS01, delete the entire 4th paragraph commencing with 'If so stated in Item 6C of the Annexure Part A to the General Conditions of Contract, the provisions of Clause 3.2 of the General Conditions in regard to limits of accuracy of quantities will not apply to Provisional Items, and the unit rate will not be varied due solely to the actual quantity required to perform the contract being greater or less than the quantity shown in the Schedule of Rates'.
- In Clause 3 (Definition of Terms) of MRS01, delete the term 'Supplementary Conditions of Contract' and replace with 'Special Conditions of Contract'.
- 'Conditions of Contract' and replace with 'Special Conditions of Contract'.

53. Energex electrical inspections – lighting and power supplies

If metering or power supply changes are made, complete 'Form 2', obtainable from Energex direct or online (www.energex.com.au). Submit this form to Energex to arrange an inspection.

54. Certification of the design

Where the Contract requires design to be carried out which would require the designer to be registered under the *Queensland Professional Engineers Act 2002*, the following is applicable.

- Ensure that the design of the Works is supervised at all relevant times by a designer who is a RPEQ and experienced in work similar to the work under the Contract.
- Provide RPEQ certification in a form acceptable to the Principal in respect of the adequacy and suitability of the design of the specified parts of the Works.
- Be prepared to:
- warrant that the designer will in carrying out its obligations under this Contract perform the design services to a standard of care, skill, judgement and diligence commensurate with that which would be expected of an experienced professional engineer with expertise in the provision of similar services for projects of the nature of the work under the Contract, and
- Indemnify the Principal for any damage, loss, cost, expense or liability (whether direct, indirect or consequential, present or future, fixed or unascertained, actual or contingent) arising out of a breach of obligations under this clause.
- If the Contractor proposes to appoint an external consultant to act as designer rather than a suitably qualified employee of the Contractor, the following is applicable.
- Obtain the Principal's prior written approval of the nominated person.
- Do not replace the nominated person without the Principal's prior written approval.
- Ensure that the terms of engagement include that the designer provides:
 - a duly executed written deed of warranty and indemnity in favour of the Principal in a form acceptable to the Principal on the same terms as set out in this clause
 - evidence to the Principal of the existence and currency of a policy of professional indemnity insurance with a limit of cover of not less than \$2,000,000 unless otherwise stipulated in the Contract Header.

- Accept liability for the acts and omissions of the external designer as if they were acts or omissions of the Contractor.
- Accept any obligation under this Contract by virtue of an approval to subcontract design services.
- Accept that no payment under this Contract will be made until you have complied with your obligations.

55. As-constructed information

55.1 General

As-constructed information is required by the Principal to assure that the completed works satisfy the following:

- Provide an accurate record of the as-constructed completed works for location, level and attribute information.
- Ensure that the finished product is in accordance with the approved engineering and/or for construction drawings and applicable specifications.
- Ensure that the Principal is provided with an inventory of assets being handed over to the Principal for asset management purposes. The inventory must include, but is not limited to, item name, installed position/location, and assigned number.

Subject to the written approval of the Superintendent, final as-constructed drawings are to be submitted to the Superintendent progressively on completion of each milestone associated with the Works. Where work milestones are not defined in the specification, final as-constructed drawings are to be submitted to the Superintendent on completion of the Works or upon completion of each Separable Portion if Separable Portions are applicable.

Preparation and submission of as-constructed information complying with the requirements of this clause and in accordance with the Principal's requirements will expedite the process of acknowledgement of receipt and auditing of submitted as-constructed information by the Superintendent.

The Superintendent will not grant Practical Completion for the Works, or for each Separable Portion if applicable, until the as-constructed information has been audited by the Superintendent and the Superintendent has advised that the submitted drawings comply with the requirements of this specification.

55.2 Format and content of as-constructed drawings

Format and content of as-constructed drawings and documentation must comply with the following requirements and the requirements as stipulated within the Principal's Standard Specifications (refer to Part B: Project Specific) where such Standard Specifications apply to the Works. Should the requirements described herein differ from those contained within the relevant Standard Specifications. The requirements of the Standard Specification apply unless otherwise advised by the Superintendent.

55.3 Works involving existing hard copy drawings only

Where project drawings are not available electronically as AutoCAD or equivalent file format and only available in hard copy or scanned image PDF file format and the scope of the Works does not require preparation of new for construction drawings, the Contractor may be permitted, subject to the approval of the Superintendent, to amend a hard copy of the project drawings by adding as-constructed information onto these drawings. As-constructed information recorded in this manner will typically be provided on a hard copy of each drawing not smaller than A3 size, unless a larger size is requested by the Superintendent due to fine print or legibility concerns should smaller size drawing versions be utilised.

As-constructed information is to only be added using red pen. Marked up as-constructed drawings and/or documents prepared in this way must be endorsed by signing and dating and submitted to the Superintendent in hard copy together with an electronic PDF scanned image of the as-constructed drawing and/or document.

55.4 Works involving existing or proposed electronic formation drawings

Unless otherwise approved in writing by the Superintendent pursuant to Clause 59.3, all aspects of the Works will require the preparation of electronic versions of as-constructed drawings and associated information.

As-constructed drawings and data must be submitted in accordance with the SEQ D & C code (<http://www.seqcode.com.au/>) with the as-constructed data via an ADAC XML and a drawing file, unless specified otherwise or agreed in writing by the Superintendent.

Where AutoCAD versions of project drawings are available, the Superintendent, within two weeks of receiving a request from the Contractor, will supply to the Contractor an electronic file copy of all Principal supplied electronic drawings in the specified format for the preparation of for construction and/or as-constructed drawings.

Within two weeks of receiving a request the Superintendent will supply an electronic file copy of the Principal's standard template for preparation of new drawings. This standard template will be utilised to compile new for construction drawings and in turn be used in the preparation of as-constructed drawings.

All additional drawings prepared associated with, and arising from, the Works must also be submitted in accordance with the SEQ D & C code, unless specified otherwise or agreed in writing by the Superintendent.

As-constructed information must meet the following minimum criteria:

- Be prepared and submitted in the format as specified at <http://www.goldcoast.qld.gov.au/council/as-constructed-data-standards-guidelines-10637.html>
- Show approved street names and correct lot numbers (current at the time of the works).
- Must be north facing.
- Show all significant variations from the contract drawings, including tolerances outside those specified in Standard Specifications (refer to Part B: Project Specific).
- Where the Contract contains the decommissioning of any of the Principal's assets, these assets must be clearly marked on the as-constructed drawing by labelling the asset 'Decommissioned' and displaying a 'strike out' with cross(es) on the drawing.
- All drawings prepared in addition to the Principal's supplied drawings, including but not limited to as-constructed information associated with or arising from changes in the contract scope of works, must be prepared using the same layout and format (i.e. titles, logos, drawing numbers, etc.) as that provided in the Principal's supplied drawings and standard template drawings. In the event that the format of the standard template drawings and Principal's supplied drawings differ, all drawings must be prepared using the standard template drawings, unless otherwise approved by the Superintendent.
- Incorporate drawing numbers supplied by the Principal following a request for the list of drawing numbers.
- The naming convention of the electronic files must be in the following format:
 - 'The Principal's supplied drawing #' – ASCON (sheet 'x' of 'x').dwg
 - 'The Principal's supplied drawing #' – SITE PLAN (sheet 'x' of 'x').dwg
 - 'The Principal's supplied drawing #' – DESIGN (sheet 'x' of 'x').dwg

- 'The Principal's supplied drawing #' – LONG SECTION (sheet 'x' of 'x').dwg
- Any electronic drawing files.
- Incorporating password lock or equivalent security measures preventing opening of the drawing file or files by the Principal will not be accepted.
- Following identification of non-compliance, the Superintendent will notify the Contractor of the non-compliance and the Contractor must immediately correct the affected drawing files and within five working days of the initial notification by the Superintendent will resubmit a complete set of the revised electronic drawing files.
- Each individual as-constructed drawing must be submitted as an individual and single self-contained file. Submissions of as-constructed drawings as drawing sets incorporating x-references to shape font files, other layers or other AutoCAD files will not be accepted.
- As-constructed drawings must contain an individual layer with no shared cells.
- For as-constructed drawings or information incorporating as-constructed survey data, be endorsed by a Registered Surveyor (refer to Clause 59.8).
- All drawings, including those with as-constructed survey data endorsed by a Registered Surveyor, be endorsed by a RPEQ.
- In addition to the above, the for construction detailed design drawings will be provided to the Contractor in AutoCAD format, and are to be marked-up electronically in AutoCAD and clouded to clearly identify all as-constructed changes made from the final revision issue of the for construction design drawings.

As-constructed drawings provided in electronic format must be submitted on CD or DVD with each CD or DVD clearly labelled with the following minimum information:

- Name of Project.
- Name of Contractor.
- Contract Reference No.
- Principal's supplied drawing No.
- Date of preparation of CD/DVD.
- Unique disc number (e.g. Disc 1 of).

Each CD or DVD must also be accompanied by a Transmittal Note or equivalent clearly listing the drawing file contents of the CD or DVD. In addition, a complete listing of drawings, in an excel spreadsheet consistent with the Principal's Systems Information Management requirements must be provided by the Superintendent.

55.5 Progressive recording of as-constructed information

Retain a single set of approved for construction drawings as control drawings onto which as-constructed information will be progressively recorded.

These control drawings must be clearly stamped 'as-constructed drawings – record' in red colour. Keep accurate and reliable records of as-constructed information throughout the term of the Contract and regularly enter the as-constructed information onto the as-constructed drawings using red colour pens.

The as-constructed drawings must be stored in a secure and separate location to other project drawings and are not to leave the contract site office at any time. The as-constructed drawings will be made available for review by the Superintendent at any time and during site meetings at the request of the Superintendent.

55.6 Review and acceptance of as-constructed drawings

As-constructed versions of all drawings, specifications, product manuals and ancillary documentation must be submitted for the review and acceptance by the Superintendent. Should any amendments be required by the Superintendent to any of the submitted as-constructed information, the Superintendent will provide notification of the required amendments and/or revisions, and within five days of receipt of details of the required amendments from the Superintendent such amendments must be made and as-constructed information resubmitted.

Should the Superintendent consider the submitted as-constructed information to be incomplete, the Superintendent must notify the Contractor who must immediately compile the outstanding as-constructed information and submit details to the Superintendent for review.

55.7 As-constructed survey information and certification

As-constructed drawing and/or information incorporating the as-constructed survey details must, unless otherwise advised in writing, be prepared based on:

- AHD unless otherwise advised in writing;
- Survey coordinate system converted to Mapping Grid of Australia 1994 Zone 56 (MGA 94).

The origin of all levels and details of all survey control points or survey coordination details or notes utilised in compiling the as-constructed survey drawings are to be noted on the as-constructed drawings.

All permanent survey marks must be submitted with MGA94 horizontal coordinates, of at least 4th order, Class D accuracy (as defined by the ICSM and Practices for Control Surveys) and 4th Order, Class D heights on AHD.

For all Works, excluding those where the Works are located entirely within the boundaries of existing water and/or sewage treatment plants, as-constructed drawings must include details of survey control comprising as a minimum:

- For Works comprising the construction of new or replacement pipelines (e.g. water mains, reclaimed water pipelines, pressure or gravity sewer mains and access chambers) totalling more than 400 metres in total length:
 - Three or more registered PSM's; and
 - Connection to the defined points of cadastre adjacent to the site of the new infrastructure.
- For Works comprising the construction of new reservoirs, pumping stations and ancillary facilities (water, wastewater or reclaimed water):
 - A minimum of two (three preferred) registered PSM's; and
 - Connection to the defined points of cadastre for the site, or adjacent to the site, of the new infrastructure.
- For all other Works located within or adjacent to road reserves or public areas:
 - A minimum of two (three preferred) registered PSM's; and
 - Connection to the defined points of cadastre adjacent to the site of the new infrastructure.

For all Works located entirely within existing sewage or water treatment property and/or sites, as-constructed drawings for any new facilities, structures or infrastructure constructed as part of the Works must include details of survey control comprising as a minimum:

- Details of existing or newly constructed permanent reference marks from which the new infrastructure has been, and can be, referenced.
- Connection to the defined points of cadastre for the boundary of the treatment plant site.

Where agreed by the Superintendent and at the request of the Contractor, the Principal's survey officers, through the Superintendent, may be available to discuss as-constructed survey data requirements with the Contractor. This may include, but not be limited to, clarification of survey conversion or adjustment factors applicable to the Gold Coast region and to ensure consistency of survey coordination with the Principal's base data requirements.

As-constructed drawings incorporating as-constructed survey details must be certified by a Registered Surveyor under the provisions of the *Surveyors Act 2003* (as amended) using the following certification statement (or similar to the satisfaction of the Superintendent):

Registered Surveyors Certification

I, being a Registered Surveyor registered under the provisions of the *Surveyors Act 2003* (as amended) hereby certify that the details, vertical and horizontal locations, measurements and dimensions shown on this drawing are a true and correct record of the as-constructed information, and that this drawing complies with the drafting and format requirements of City of Gold Coast Council.

Signed

Registered No. Dated

55.8 Certification of as-constructed information

All as-constructed information, including as-constructed survey information prepared in accordance with the requirements of Clause 59.7, must be certified by a RPEQ registered under the provision of the *Professional Engineers Act 2002* using the following certification statement (or similar to the satisfaction of the Superintendent):

Registered Professional Engineer of Queensland Certification

I, being a Registered Professional Engineer registered under the provision of the *Professional Engineers Act 2002* (as amended) hereby certify that the as-constructed information shown on this drawing is a true and correct record of the Works performed.

Signed

RPEQ No. Dated

All as-constructed drawings are to be submitted under cover of a certification sheet as follows:

Consulting Engineer's Certificate and as-constructed certification

Specifications

Project/Contract Name or Title:			
Contract Number:			
Works to which Certification relates			
Project Location/Site Details Real property description (if applicable)			
Name of street(s) where works located (include intersecting streets at			
Consultant:	Company Name:		
	Address:		
	Phone Number:		
<p>I, _____ being a Registered Professional Engineer registered under the provision of the <i>Professional Engineers Act 2002</i> (as amended) and a duly authorised representative of _____ (insert name of Contractor/Consultant) do hereby certify that the information shown on the as-constructed drawings and ancillary documentation as attached and listed in the following table is a true and correct record of the Works performed (including sizes, types, classes, materials etc.), and that we have exercised reasonable skill, care and diligence to ascertain that the Works described have been executed in accordance with:</p> <ul style="list-style-type: none"> The approved Engineering Drawings, Specifications, Development Guidelines and relevant Australian Standard Code of Practice. Good engineering practice and to a satisfactory standard of workmanship. Relevant Local, State and Federal legislations, regulations and By-Laws. 			

Document Type	Drawing No. or Document No.	Revision	Title of Document or Drawing	Date of Issue	Signature of person authorising issue

We further certify that the as constructed information submitted herewith (including survey information prepared by others) indicates to the best of our knowledge and belief that the completed Works represent a true and accurate record of what has been constructed within the specified tolerances required by the Principal.

We further certify that all significant variations from the approved Engineering Drawings (outside the specified tolerances) have been submitted to the Principal for approval and are incorporated in the 'as constructed' information.

Signature:	RPEQ No:	Date:
Consulting Engineer for and on behalf of: (Company)		

55.9 Amendment to as-constructed drawings during Defects Liability Period

Should it be found, subsequent to the issue of a Certificate of Practical Completion for all or any part of the Works that any of the as-constructed drawings fail to correctly represent the as-constructed conditions, the Superintendent will notify the Contractor of the identification of inaccurate information and be entitled to require amendments to the relevant as-constructed drawings. Within two weeks from the receipt of notification, resubmit amended drawings for review by the Superintendent.

No additional costs will be deemed payable to the Contractor arising from or associated with activities, either on-site or off-site, to verify as-constructed details and undertake any required amendments to earlier versions of as-constructed drawings.

55.10 Operations and maintenance manuals

Subject to the written approval of the Superintendent, draft Operations and Maintenance Manuals are to be submitted to the Superintendent no later than 14 calendar days prior to the commissioning of each infrastructure facility and/or item of installed equipment (e.g. switchboard, pumping equipment, or valves/pipework) associated with each Milestone Separable Portion, or the Works, as applicable.

Preparation and submission of Operations and Maintenance Manuals in a form complying with the requirements of the relevant Principal's Standard Specifications will expedite the process of checking of submitted draft Operations and Maintenance Manuals and ancillary information by the Superintendent and subsequently allow for prompt acceptance of the submitted information.

Test results from FAT, SAT and commissioning, including all other test results associated with the Works, must be included within the Operations and Maintenance Manuals, in both hard copy and electronic.

During commissioning, or modification of the installed equipment as a result of commissioning outcomes, any modifications to the draft Operations and Maintenance Manuals and/or as-constructed drawings must be marked onto three control copies of the draft Operations and Maintenance Manuals and/or as-constructed drawings. Two sets of these marked up versions of the documents must be handed over to the Superintendent on the day of commissioning irrespective of whether or not the facility or item of plant or equipment is immediately put into operation by the Principal. The third set of the marked up versions of the documents be retained by the Contractor, who immediately proceeds to amend the electronic versions of the draft Operations and Maintenance Manuals and/or as-constructed drawings.

Submit final Operations and Maintenance Manuals and/or as-constructed drawings, both electronic and hard copy versions in accordance with the requirements of the Principal's Standard Specifications, to the Superintendent within 14 calendar days of the date of commissioning for each Milestone, Separable Portion or the Works, as applicable.

The Superintendent will not grant Practical Completion for the Works until the final Operations and Maintenance Manuals and as-constructed information applicable to the Works has been accepted by the Superintendent. Where the Contract comprises Separable Portions, the Superintendent will not grant Practical Completion for each Separable Portion until the final Operations and Maintenance Manuals and as-constructed information applicable to that Separable Portion has been accepted by the Superintendent.

Where the nature of the Works required are upgrade of sewerage pump stations, air valves and odour control units etc, provide relevant operational and maintenance information of the new works that has been undertaken and/or provided. If any new works has effected, altered, or changed any function or operational procedure of pre-existing equipment (ie. pump station) or components from its existing presence, provide the entire operational procedure that includes those changes unless the Superintendent instructs otherwise.

56. Survey

Standard Australian Height Datum and Geocentric Datum of Australia (GDA94) is the basis of all levels and coordinates associated with the Works unless otherwise indicated.

Be responsible for setting out of the Works from the PSM's and a qualified Surveyor is to be engaged to do the set out.

Rely on set out points placed by the Principal.

57. Audit requirements

Engage a suitably qualified and accredited (as determined by the Superintendent) independent Work Health and Safety Auditor to undertake periodic WHS compliance audits with regard to relevant legislative and contractual commitments to ensure the safety of the Works. Additional scope of this audit process may be indicated by the Principal and advised via the Superintendent.

Quality and/or Safety Audits may also be conducted by the CCR or Superintendent on a sample of work to estimate the accuracy and reliability of the Contractor's data and the quality/safety of the work. The sample size will be set at the discretion of the Principal.

Audits may be conducted on all types/phases of the contracted works and if non-conformances are found, then rectification may be ordered by the Superintendent in accordance with the Contract.

A fault is defined as work that does not meet the requirements of this contract.

58. Restoration

For the purposes of this Contract, restoration works are defined as restoration of all areas, surfaces, plantings and structures disturbed, damaged or removed during the Works to pre-existing conditions.

Undertake a survey and compile a detailed report (including photographs) of pre-existing site conditions of fences, landscaping, buildings etc. before commencing W. The survey should include, but not be limited to, the following:

- Each property abutting the area of works.
- Nearby roadway, kerbs, gutters and footpaths.
- Nearby existing vegetation.
- Road crossings.
- All nearby existing structures.

The information included in this survey or other relevant information be utilised by the Superintendent in assessing the standard of restoration required. Where sufficient information has not been recorded to allow the Superintendent to determine the pre-existing conditions, be responsible for full restoration costs as claimed by the affected parties.

Undertake any remedial works, which are necessary to return the site to its original condition to the satisfaction of the Superintendent.

Specifications

Restore any roadways, road shoulders and footpath verges disturbed during construction to a condition at least equal to their original condition, in accordance with the Principal's Standard Specifications.

The site is to be fully restored as specified in the Standard Specifications and to its original pre-existing condition as far as is practically possible.

Part B: Project Specific

1. Scope of the Works

1.1 General (for SPS and WPS sites)

The general scope of the works is described in Special Conditions of Contract, Clause 2 and is supplemented by the following specific aspects of the Works.

- Submit pre-start documentation for each package of work including, but not limited to, the work program, SWMS, pre-dilapidation survey report before commencement of work on site and post dilapidation survey report on completion of work on site, SMP, work methodology, and traffic management plans.
- Undertake detailed design of SPS handrails, new covers and grates based on the Sewerage Pumping Station Standard Drawings Fall Prevention Covers and Handrails at Sewerage Pumping Stations drawings (refer to Part C Technical Specifications Attachment 1.1: Standard SPS Drawings and Part B Clause 4: Design).
- Undertake detailed design of WPS covers and grates based on the Water Pumping Station Standard Drawings Fall Prevention Covers and Grates at Water Pumping Stations (refer to Part C Technical Specifications Attachment 1.2: Standard WPS Drawings and Part B: Project Specific Specification Clause 4: Design).
- Accurate determination of all service locations prior to commencement of work at location where ground surface is to be disturbed. Where excavation or digging is required to locate services refer Part B Clause 17: Existing Public Utilities.
- Securing of site to ensure safety of workers and the general public. Refer Part B: Project Specific Specification Clause 5.1: Site Security During Construction.
- Remove and dispose existing covers of wet-wells and valve chambers and install new covers and new handrails at wet-wells, and new covers and grates at SPS.
- Install new covers and grates at SPS lift station discharge chambers.
- Remove and dispose existing covers, cut existing concrete slab to enlarge WPS access opening and install new covers and grates at WPS.
- Design and construct concrete slab for handrails stanchion base support, construct concrete slab to provide a safe flat surface, remove concrete hobs, install bollards, and wheel stops as required.
- Supply, fill, compact and level top soil as required.
- Supply, lay and establish turf.
- Provide full time site supervision.
- Prepare as-constructed drawings. Refer Part A: As-constructed information and Part B: Project Specific Specification Clause 4.6: As-constructed Drawings.
- Maintain a safe and secure worksite.
- Site reinstatement works including but not limited to road pavements, kerb and channel, turfing, footpaths, and driveways.
- Post installation dilapidation survey. Refer Part B: Project Specific Specification Clause 7: Dilapidation Survey. (Note that photographs provided in Part D Attachments, Attachment 5.1: SPS Site Photographs and Attachment 6.1: WPS Site Photographs are for reference only).
- On-maintenance inspection exercise with the Superintendent on completion of works. Refer Part D Attachments, Attachment 4.1 SPS On-maintenance Inspection Sheets and Attachment 4.2 WPS On-maintenance Inspection Sheets.

- Receive approval from the Superintendent to remove temporary site safety and security measures on the completion of site Works.

1.2 Work Milestones

Works performed under this Contract will be based on Work Milestones as described below.

The SPS sites are divided into four packages while all the WPS sites are bundled within a single package. Each SPS package contains groups of pumping stations based on geographical location. The groups within each package are as follows:

- Package 1 – Groups 1 and 2
- Package 2 – Groups 3 and 4
- Package 3 – Groups 5 to 11
- Package 4 – Groups 12 to 14
- Package 5 – Group WPS

The Work Milestones described below are applicable to all five packages, unless specifically indicated otherwise.

Work Milestone Number One – Preparatory Works

This milestone must include the following aspects of the works including but not limited to:

- All pre-start documentation including but not limited to SMP, Quality Management Plan, and detailed site specific methodology of Works, SWMS and works program. All documentation must be submitted within ten working days of appointment.
- Pre-design investigation and individual site measurement activities. Prior to commencement of any design work, notify the Superintendent of any additional requirements determined to complete the installations as a result of the pre-design site investigation activities
- Provide at least 25 working days notice to the Superintendent in the event any items such as pump guide rails, level probes or other devices that will clash with the works, for the Superintendent to organise the relocation or removal of these items.
- Attend and participate in a maximum of ten meetings at the Principal's Nerang office to achieve the objectives of the design.
- Provide final RPEQ endorsed design drawings for covers, grates, handrails, concrete slab and any other items where a design is required; and provide accompanying design report on the WHS aspects of any designs as required by legislation. Refer Part B: Project Specific Specification Clause 4: Design
- Progress reporting. (Refer Part A: General Clause 37: Progress Reporting).
- Provide site specific TMP (Refer Part A: General Clause 11: Traffic Control if/where required)
- Pre-construction dilapidation survey of each work site. (Refer Part B: Project Specific Specification Clause 7: Dilapidation Survey)
- Marking locations of bollard or wheel stop with Superintendent on sites where the installation of such items are required.
- Determine the location of all underground services before any commencement of excavations, diggings or inserting/poking (such as placing star pickets) into the ground.

This milestone must not exceed five per cent of the total lump sum amount.

Payment for each package within this milestone is claimable at 100%.

Work Milestone Number Two Fabrication and Installation Works SPS Sites - Packages 1 to 4

This milestone must include the following aspects of the works including but not limited to:

- Delivery of notification correspondence to affected customers before commencement of site works. Refer Part B Clause 14: Community Liaison
- Supply, install and remove temporary fencing refer to Part B: Project Specific Specification Clause 5.1: Site Security During Construction
- Remove and dispose covers at pumping station
- Prepare concrete surface for installation of covers and handrails
- Supply and install covers at wet-well of pumping station
- Supply and install handrails along perimeter of wet-well, or elsewhere as detailed in Part D Attachments, Attachment 2.1: SPS Scope Summary and Attachment 2.2: SPS Site Data Sheets
- Supply and install covers and grates at valve/discharge chamber of pumping/lift station
- Construct concrete slab as detailed in Part D Attachments, Attachment 2.1: SPS Scope Summary and Attachment 2.2: SPS Site Data Sheets
- Remove concrete hobs as Part D Attachments, Attachment 2.1: SPS Scope Summary and Attachment 2.2: SPS Site Data Sheets
- Supply and install wheel stop or bollards as detailed in Part D Attachments, Attachment 2.2: SPS Site Data Sheets
- Supply, fill, compact and level top soil as detailed in Part D Attachments, Attachment 2.1: SPS Scope Summary and Attachment 2.2: SPS Site Data Sheets
- Supply, lay and establish turf as detailed in Part D Attachments, Attachment 2.1: SPS Scope Summary and Attachment 2.2: SPS Site Data Sheets
- Rectification and site clean-up works
- The wet-well cover(s), handrails and the valve chamber's cover(s) and grate(s) at each individual site, plus any concrete works, must be completed within five days of work commencement. Refer Part B: Project Specific Specification Clause 5.1: Site Security During Construction
- Undertake on-maintenance inspection and handing over exercise
- Final detailed dilapidation survey of every site of works
- Compile and submit progressive final as-constructed drawings to the Superintendent.

For payment purposes, any Works completed at each pumping station is initially claimable at 80% of its completed installation.

The remaining 20% for each pumping station is claimable upon completion of the entire package which must include the submission of the signed final on-maintenance acceptance certificate free of defects, and, the submission of the RPEQ signed as-constructed drawings.

Work Milestone Number Three Fabrication and Installation Works WPS Sites – Package 5

This milestone must include the following aspects of the works including but not limited to:

- Supply, install and remove temporary fencing refer to Part B: Project Specific Specification Clause 5.1: Site Security During Construction.
- Remove and dispose existing covers at pumping station
- Cut existing concrete slab to enlarge opening as detailed in Part D Attachments, Attachment 3.1: WPS Scope Summary and Attachment 3.2: WPS Site Data Sheets
- Prepare concrete surface for installation of covers

- Supply and install covers and grates as detailed in Part D Attachments, Attachment 3.1: WPS Scope Summary and Attachment 3.2: WPS Site Data Sheets
- Supply and install bollards as detailed in Part D Attachments, Attachment 3.1: WPS Scope Summary and Attachment 3.2: WPS Site Data Sheets
- Rectification and site clean-up works
- The concrete works and the installation of covers and grates at each individual site must be completed within five days of work commencement. Refer Part B: Project Specific Specification Clause 5.1: Site Security During Construction
- On-maintenance inspection and handing over
- Final detailed dilapidation survey of every site of works
- Compile and supply progressive final as-constructed information to the Superintendent

For payment purposes, any Works completed at each pumping station is initially claimable at 80% of its completed installation.

The remaining 20% for each pumping station is claimable upon completion of the entire package which must include the submission of the signed final on-maintenance acceptance certificate free of defects, and, the submission of the RPEQ signed as-constructed drawings.

Provisional Items

The Superintendent may provide specific direction(s) in the event the provisional items listed below are required at any nominated site and at any time within the Contract term.

- Supply and install Type 3 and 4 bollards as per Gold Coast City Council Standard Drawing 13-05-617 Bollards – Metal. Provide two red Class 1 retro reflective tape spaced apart as per GCCC Std Drg 13-05-616, refer to http://www.goldcoast.qld.gov.au/gcplanningscheme_policies/policy_11.html#specs.
- Remove and dispose of concrete hob along perimeter of wet-well and valve chamber void openings (or at other areas as required) within any pumping station site. Including reinstatement and treatment to concrete face as described in Part B: Project Specific Specification Clause 5.2: Covers, Handrails, Grates, and Concrete.
- Design and construct reinforced concrete slab of various dimensions (or irregular shape including mixture of straight and curved edges) at any site up to a maximum of 30 different sites, as described in Part B: Project Specific Specification Clause 5.2: Covers, Handrails, Grates, and Concrete.
- Design and construct concrete strip slab (straight on plan, including straight and at right angle) for the base support of handrail at any site up to a maximum of 25 sites, as described in Part B: Project Specific Specification Clause 5.2: Covers, Handrails, Grates, and Concrete.
- Design and construct concrete strip slab (curved on plan) for the base support of handrail at any site up to a maximum of 10 sites, as described in Part B: Project Specific Specification Clause 5.2: Covers, Handrails, Grates, and Concrete.
- Supply, fill, compact (using mechanical device) and level topsoil for turfing around wet-well and valve chamber areas at any site up to a maximum 40 sites, as described in Part B: Project Specific Specification Clause 5.2: Covers, Handrails, Grates, and Concrete.
- Supply, lay and establish 'A' grade (green couch) turf or approved equivalent. Including watering twice weekly for eight weeks.

1.3 Detailed Scope at Individual SPS Sites

Unless otherwise stated in the scope summary table provided in Part D Attachments, Attachment 2.1: SPS Scope Summary Table, works to be carried out at individual SPS sites must include the following:

- All wet-well openings must be provided with covers and handrails
- All valve chamber openings must be provided with covers and grates

- All discharge chambers of lift stations must be provided with covers and grates. Replaceable seals, similar to details for wet-well covers, must be provided on the underside of the discharge chamber covers to provide a full odour tight seal

The scope summary table (refer Part D Attachments, Attachment 2.1: SPS Scope Summary Table) summarises information extracted from the site data sheets (refer Part D Attachments, Attachment 2.2: SPS Site Data Sheets). This information includes:

- Whether the facility is a pumping station or a lift station. Lift stations do not have a valve chamber. However they do have a discharge chamber adjacent to the wet-well
- Approximate dimensions of the void opening of the wet well and the valve chamber, or the discharge chamber, if the pump station is a lift station
- The selected type of cover and handrail
- Additional comments where required

The following information can be obtained from the site data sheets provided in Part D Attachments, Attachment 2.2: SPS Site Data Sheets:

- The approximate north direction to identify orientation of the opening direction of the covers and handrail gates
- The position/orientation of the pump guide rails to establish which face of the handrail or gate requires Type 2 toeboard
- The opening orientation of the wet-well cover and the orientation of the handrail gate to establish if Type 3 toeboard is required for the handrail gate
- Approximate location (indicated as an asterisk, and 'X' or a rectangle shape), numbers and dimensions of cut out openings on the grate of the valve chamber cover. An asterisk or an 'X' indicates a 100mm by 100mm opening to access valve spindle; cut out dimensions for access to bypass pipe is indicated by a rectangular shape. In the event the dimensions for a particular site is not included, provide a 250mm by 250mm cut out opening

In the event of conflicting requirements, Part D Attachments, Attachment 2.1: SPS Scope Summary Table takes precedence over Part D Attachments, Attachment 2.2: SPS Site Data Sheets. Any conflicting requirements must be immediately brought to the attention of the Superintendent for clarification before commencing design work.

Additional detailed requirements are as follows:

- The default fall prevention option for a valve chamber is Type A (refer to Part C Technical Specifications Attachment 1.1: SPS Standard Drawings drawing number 79887.007). Type A option refers to the requirement for cover and grates for the valve chambers, (or lift station discharge chamber if the site is a lift station). In the event Type B option is to be used, it will be specifically stated in the "Additional Comments" section of the summary table in Part D Attachments, Attachment 2.1: SPS Scope Summary Table
- The maximum allowable gap between the handrail toe-board and the existing surface is 10mm. During the site pre-design investigation and site measurement activities, check if the existing ground surface along the gates' opening rotational angle allows for the provision of the 10mm maximum gap. In the event there is any unevenness on the concrete surface and the gate cannot open fully, it is permitted (with the approval of the Superintendent) to grind the concrete surface, or the toeboard, up to 5mm to enable the gate to open fully without hindrance. If more than 5mm of grinding is required, refer to the Superintendent for further instruction. Assume concrete grinding will be required at 30% of the SPS sites
- All handrail gates must be designed to open fully (i.e. up to 170 degrees)
- Discharge chamber covers and grates must be identical to the details provided in the standard drawings for valve chambers. In addition, the cover must be provided with a seal (type "Tesa")

Permafoam tape 60112 6.4mm x 36mm wide, or approved equivalent) similar to the requirement for the wet-well covers and must be designed to be fully sealed and odour tight.

- Covers must be installed within five days work at each site. At no time must the wet well opening be left open and unattended. Covers must be left locked at the end of the day's work using the locks used on the existing covers. Should there be extra locks required, contact the Superintendent. Notice of 15 working days is required by the Superintendent to obtain the locks
- For valve chamber/discharge chamber of pumping/lift stations, supply all materials, labour, plant and equipment to remove and dispose of existing safety nets and covers, and install new cover(s) and grate(s), or retrofit existing covers where appropriate. Covers and grates must be installed within one working day at each site. At no time must the valve chamber/discharge chamber be left open and unattended. Covers must be left locked at the end of the day's work using the locks used on the existing covers. Should there be extra locks required contact the Superintendent. Notice of 15 working days is required by the Superintendent to obtain the locks

1.4 Detailed Scope at Individual WPS Sites

Refer to Part D Attachments, Attachment 3.1: WPS Scope Summary Table for detailed scope at each individual WPS site. The scope summary table summarises information extracted from the site data sheets (refer Part D Attachments, Attachment 3.2: WPS Site Data Sheets). Unless otherwise stated in the Part D Attachments, Attachment 3.1: WPS Scope Summary Table, works to be carried out at individual WPS sites must include the following:

- All WPS openings must be provided with covers and grates.
- Concrete slab openings at a number of WPS sites must be enlarged by cutting sections of concrete.

The approximate north direction to identify orientation of the opening direction of the covers and grates can be obtained from the site data sheets provided in Part D Attachments, Attachment 3.2: WPS Site Data Sheets.

The following are additional requirements for WPS sites:

- Cut out openings of dimension 100mm by 100mm on grates to access valve spindle must be provided at every pumping station. Position of these cut out openings must be determined and measured on site - assume six cut outs, three at each end of opening.
- Covers and grates must be installed within five days on commencement of work at each site. At no time must opening be left open and unattended. Covers must be left locked at the end of the day's work using the locks used on the existing covers. Should there be extra locks required, contact the Superintendent. Notice of 15 working days is required by the Superintendent to obtain the locks

2. Preliminaries

Prior to commencing any works the following must be provided to the Superintendent for review at least ten working days prior to the programmed works:

- Detailed program of works and methodology. Refer Part B: Project Specific Specification Clause 3: Delivery Methodology and Program
- SMP
- Detailed SWMS. The SWMS must be project and task specific. Detail the specific activities related to the undertaking of the works. A generic "cover-all" SWMS will not be acceptable.
- TMP where required; and

- Evidence that Principal site inductions have been carried out by all personnel intending to work on site.

3. Delivery Methodology and Program

There are a total of 109 SPS and ten WPS sites divided into five delivery packages, each with a specified delivery period as indicated below:

Package	Number of Installations	Completion required from Possession of Site.
1	18 (SPS)	10 weeks
2	31 (SPS)	15 weeks
3	31 (SPS)	20 weeks
4	29 (SPS)	29 weeks
5	10 (WPS)	15 weeks

Submit a detailed program of works for the five packages to the Superintendent within 10 working days upon receipt of the acceptance of offer letter.

The program must include the following activities of work as a minimum:

- Pre-start documentation.
- Investigation/site measurements.
- Design.
- Submission of For Construction design drawings.
- Superintendent's review of For Construction drawings. (Allow five working days for each package).
- Installation (including on-maintenance inspection with Superintendent and site hand over).
- Reinstatement and site restoration.
- Submission of as-constructed information.

The program of works must be provided in Gantt chart format showing the above, key project activities, interfaces and dependencies and the critical path.

The program of works is to be base-lined and will be used for progress monitoring for the duration of the contract.

4. Design

The primary intention of the Works is to prevent fall from heights, and mitigate the need to lift cover loads heavier than 16kg. Standard drawings and information for each site has been provided to form the basis of the detailed designs for handrails, covers and grates at SPS sites, and covers and grates for WPS sites (refer to Part C Technical Specifications Attachment 1.1: SPS Standard Drawings, Attachment 1.2: Standard WPS Drawings, Part D Attachments Attachment 2.1: SPS Scope Summary, Attachment 2.2: SPS Site Data Sheets, Attachment 3.1: WPS Scope Summary, Attachment 3.2: WPS Site Data Sheets).

The size of every individual cover and grate of wet-well and valve chamber/discharge chamber, opening direction of cover and grate, number and size of cut-out openings on grate, length of handrails and number and location of gates at each of the sites vary. Every item must be designed to accommodate each individual site. The standard drawings (refer to Part C Technical Specification Attachment 1.1 Standard SPS Drawings and Attachment 1.2 Standard WPS Drawings) do not provide sizes for the structural members of the covers, grates or handrails; these must be designed individually and certified

by an RPEQ. Provide Superintendent with RPEQ endorsed design calculations for review or for records if requested.

Void dimensions for SPS and WPS are provided in Part D Attachments Attachment 2.1: SPS Scope Summary Table and Attachment 3.1: WPS Scope Summary. Void openings must be confirmed at each site before commencing design works, and measurements checked prior to fabrication.

Any dimensions that are shown in the standard drawings that cannot be accommodated or incorporated in the design drawings for an individual site due to site constraints must first be referred to the Superintendent before the detailed design is carried out.

Before the commencement of design, attend a prestart meeting with the Superintendent. The Superintendent will provide AutoCAD files of the standard drawings to assist in the preparation of the design drawings.

As a minimum the design drawings for each site must include the following information:

- A table showing the calculated design weights as per the table below:

SITE ID:			
DESCRIPTION	CALCULATED DEAD WEIGHT (kg) - W_c	CALCULATED LIFTING WEIGHT (kg) - W_l	AS CONSTRUCTED LIFTING WEIGHT (Kg) - W_l
WET-WELL COVER			
VALVE CHAMBER COVER			
VALVE CHAMBER GRATE			

In the above table the following must be considered for each site:

- “Valve Chamber Cover” and “Valve Chamber Grate” must be replaced with “Lift Station Discharge Chamber Cover” and “Lift Station Discharge Chamber Grate” for SPS lift stations.
- Lifting weight of cover must be measured on site on completion of works. Information must be provided in the as-constructed drawings.
- Provide more rows as appropriate if weights of the various individual covers differ for a particular pumping station.
- Refer to Sewerage Pumping Station Standard Drawing number 79887.001 and Water Pumping Station Standard Drawing number 79887.500 for W_c and W_l (refer to Part C Technical Specification Attachment 1.1: Standard SPS Drawings).
- North arrow direction; to indicate clarity of opening direction of covers, gate of handrails and grates
- All dimensions including site measured wet-well and valve chamber/discharge chamber void openings, and sizes of structural and non-structural members of covers, grates and handrails.
- Plan and elevation of covers, grates and handrails.

Use the standard drawings (refer to Part C Technical Specification Attachment 1.1: Standard SPS Drawings and Attachment 1.2: Standard WPS Drawings) and provide the design information (such as indicated in the dot points above) when producing the detailed design drawings for construction.

All detailed design drawings for construction must be certified by an RPEQ Engineer.

4.1 Design of covers and grates

The proposed number of new covers (and configuration) selected for a particular site (as per the “cover/grate opening option” type) indicated in Part D Attachments Attachment 2.1: SPS Scope Summary, Attachment 2.2: SPS Site Data Sheets, Attachment 3.1: WPS Scope Summary, Attachment

and 3.2: WPS Site Data Sheets, are only indicative and may not achieve the maximum 16kg lifting weight requirement. Ensure that the lifting weight of both the SPS and WPS individual covers does not exceed 16kg.

Following the completion of preliminary design based on the configuration of the cover provided in Part D Attachments Attachment 2.1: SPS Scope Summary, Attachment 2.2: SPS Site Data Sheets, Attachment 3.1: WPS Scope Summary, Attachment and 3.2: WPS Site Data Sheets, if the calculated cover weight is established to be above 16kg, inform the Superintendent immediately. The Superintendent may request the cover to be redesigned with an alternate opening option, or to divide the covers such that the lifting weight of each cover is reduced to the desired 16 kg maximum.

The covers of the SPS wet-well and discharge chamber must be designed to be fully sealed and odour tight. Sealing details that are provided in the standard drawings are not exhaustive (refer to Part C Technical Specification Attachment 1.1: Standard SPS Drawings and Attachment 1.2: Standard WPS Drawings); ensure that the covers are fully sealed and odour tight.

Cut out openings on the grates, either to access valve spindle or by-pass pipe, of the SPS and WPS sites must be taken into account when designing the grates. As a minimum, cut out openings must be stiffened with flat bars or tube as required.

4.2 Design Responsibility

Designs must be submitted to the Superintendent for endorsement prior to fabrication and installation. The Superintendent will not accept liability for the technical correctness of design drawings. Should the design be found to not meet the criteria established in the standards and/or the specifications, the installation must be rectified at no cost to the Principal.

4.3 Design Drawings For Construction (HOLD Point)

The Superintendent will review the For Construction design drawings and return comments and any mark-ups for inclusion in subsequent updated drawings. It is expected that the comments and mark-ups will be returned within five business days of receiving the designs. Comments/mark-ups must be incorporated into updated drawings for resubmission, or if the Superintendent deems acceptable, the marked up comments must be incorporated on site and details updated on the as-constructed drawings.

The For Construction drawings submitted must be of a high quality with all the required details as referred to in this clause. Should the Superintendent determine that the detailed drawings submitted for review do not meet the minimum requirements as stated elsewhere in the specification; the Superintendent will return the full set of drawings for updating and re-submission. The five business day review period will re-commence with the submission of the amended drawings that meet all requirements of the specifications.

4.4 Safety in Design Report

A Safety in Design Report must be submitted as part of the first package of the design phase of the project. The Design Report for the standard drawings includes a section "Design and Safety" for reference, refer to Part C Technical Specifications Attachment 1.3: Design Report.

4.5 Design Deliverables

Design deliverables must be in accordance with this specification with the following additions and / or amendments as applicable to each work site:

- All design drawing numbers are obtained by applying in writing to the Superintendent
- One set of the For Construction drawings for the Superintendent's review in A3 size paper form
- The above set of the For Construction drawings to the Superintendent in electronic format saved in a USB storage device. The final For Construction drawings must be certified by an RPEQ
- Drawings and any documentation must be provided in the format by which the respective documents were prepared (e.g. MS Word 2010, MS Excel 2010, MS PowerPoint 2010, AutoCAD)

- The AutoCAD files for the standard concept drawings provided in Part C Technical Specifications Attachment 1.1: Standard SPS Drawings and Attachment 1.2: Standard WPS Drawings will be provided by the Superintendent on commencement of the Contract. The format and presentation of the design drawings for each individual site must be similar in format and presentation to the standard drawings
- Complete a Quality Compliance Audit Record in a format agreed to by the Superintendent. This quality compliance audit record is required to verify the implementation of quality procedures, and interface with the Principal. This is to ensure that works undertaken are to AS/NZS/ISO9001 and AS/NZS/ISO14001 standards
- Submitted electronic files and documentation must not include any security settings or password protection, so that electronic submissions are directly accessible by the Principal's personnel
- A copyright statement must be included in reports and be assigned to the Principal.

4.6 As-constructed drawings.

The as-constructed drawings must include all the information provided in the detailed design drawings plus the following:

- The site measured total lifting weight of the installed cover. The total cover lifting weight must be verified on site by the Superintendent.
- Any other information that has changed since the production of the design drawings.

Ensure that the RPEQ certification statement is included on all as-constructed drawings, refer to Part A clause 55.8 Certification of as-constructed information.

5. Installation/Construction

5.1 Site Security During Construction

Each site must be secured safely with temporary fencing during the period of installation/construction. In addition to securing the pumping station covers, the fence must also be padlocked and secured at the completion of each day's work.

Work sites must be tagged with a sign "CAUTION – WORK IN PROGRESS" in bold red font of appropriate size on a A4 size aluminium plate for every site under construction at a position approved by the Superintendent on the temporary fencing. The sign must be approved by the Superintendent (refer to Clause 18 Signage and Publicity).

The Superintendent will provide padlocks for the purpose of securing the temporary fence. These padlocks must be returned to the Superintendent on completion and handing over of the sites. Apply for a key to the City of Gold Coast to access the padlocks. A \$200 refundable deposit is required as part of the application; further details can be obtained from the website <http://www.goldcoast.qld.gov.au/forms-applications.html?pg=32> under the heading "Key application form for contractors / companies".

5.2 Covers, Handrails, Grates, Concreting, Placing Soil Filling and Turfing (for SPS sites only)

Covers, handrails, grates and concrete must be installed in accordance with the design intent. Any variances to the endorsed designs must be approved by the Superintendent.

The following must be noted:

- There is 250mm x 250mm (approximate) concrete hob (protrusion) around the perimeter length of the wet-well and/or valve chamber void openings at a number of stations. Part D Attachments, Attachment 2.1: SPS Scope Summary and Attachment 2.2: SPS Site Data Sheets identify pumping stations where hobs are present and which are required to be removed. The hob can either be underneath the covers

and not visible when the covers are closed, or partially underneath the covers and part visible when the covers are closed. Certain sites are identified in Part D Attachments, Attachment 2.2: SPS Site Data Sheets as having hob(s), these hob(s) must be removed before the covers/grates and handrails are installed. Should there be steel reinforcement protruding into the hob from the slab below, it must be cut and removed; to a depth of 20mm below the FSL. The remaining void must be filled with high strength cement grout or epoxy cement (Megapoxy or equivalent). SPS OX21 (Group 2) is an example of a pump station with hob around the perimeter of its wet-well void opening. For pricing purpose, the centreline of the hob must be taken at 400mm from the edge of void opening.

- On completion of hob removal, the base of the hob area must be scrubbed clean and grinded before filling all voids with epoxy mortar, and rendered smooth such that any irregularities on the concrete surface are not more than 5mm.
- Except for stainless steel, any other steel protruding from the existing concrete surface which hinders the installation of the covers or handrails, must be cut and removed in a similar manner as described in dot point one above. Particular attention must be given when removing existing frame of covers; any redundant bolt left in place in the concrete must be cut and removed similarly. If the protruding material is stainless steel, cutting the protrusion to the surface of the concrete and applying epoxy coating over the cut material will suffice.
- The entire concrete surface where new frame are to be affixed onto must be scrubbed clean and grinded before filling all voids with epoxy mortar, and rendered smooth such that any irregularities on the concrete surface are not more than 5mm. On completion of preparing the surface to receive the new frame, the under surface area of the frame must be sealed as specified in the standard drawings.
- Acceptable products for use on the Contract can be obtained from the following product selection list: <http://www.seqcode.com.au/products/>
- In conjunction with installing covers, remove and dispose existing safety nets which are installed across the void openings of the pumping stations. The nets must be removed only after the on-maintenance inspection and handing over exercise is completed. Refer Clause 6: On-maintenance inspection and Handing Over. The mounting points for the safety nets must be left in place.
- Cut-out openings must be provided on safety grates of the valve chambers to access valve spindle, or for the purpose of accessing the pump stations by-pass connection outlet pipe beneath the grates. The approximate locations of these openings are indicated in Part D Attachments Attachment 2.2: SPS Site Data Sheets. Safety grates must be individually designed based on the numbers, various sizes and positions of the cut-outs. Cut out openings greater than 100mm by 100mm must be provided with a 3mm chequer plate cover hinged to one side, and rotationable for opening and closing.
- Reinforced concrete slab is required at a number of stations identified in Part D Attachments Attachment 2.1: SPS Scope Summary Table. Reinforcement for the slabs must be constructed to conform to Gold Coast City Council Standard Drawings 05-02-302 – Vehicular Crossing Low Density Residential (refer to Part B Clause 19: Standard Specifications). Refer to http://www.goldcoast.qld.gov.au/gcplanningscheme_policies/policy_11.html#specs for drawing. Slabs must be designed by an RPEQ and dowelled at 400mm centre to centre into any existing adjacent concrete slab. Surface of the adjacent slab, where the new concrete abuts, must be scrubbed before new concrete is placed. Assume up to 10 dowels are required along full perimeter of single concrete slab, and maximum slab thickness of 150mm. Include the cost to excavate, remove and dispose material for the purpose of constructing the slab, and compaction of ground to receive concrete.
- Straight strip or curved strip of reinforced concrete slab is required for the base support of handrail stanchions at a number of stations identified in the summary table of Part D Attachments Attachment 2.1: SPS Scope Summary Table. This strip of slab must be designed by an RPEQ and have a width of 300mm and dowelled at a minimum of 400mm centre to centre into the adjacent concrete slab of the covers. Surface of the adjacent slab, where the new concrete abuts, must be scrubbed before new concrete is placed. Assume maximum slab thickness of 150mm with 50mm sand blinding layer. All concrete works must comply with the requirements of AS3600. Concrete strip at right angles shall be

considered 'straight' for measurement purpose. Include the cost to excavate, remove and dispose material for the purpose of constructing the slab, and compaction of ground to receive concrete.

- Certain handrails, where identified in the summary table of Part D Attachments Attachment 2.1: SPS Scope Summary Table is to be painted yellow. The painting must be done with two coats of two pack 125 micron minimum thickness of AS2700: Golden Yellow Y14 (safety yellow) paint.
- At certain sites, filling with top soil and turf are required to increase the finished ground level to match the FSL of the SPS converter slab. Supply, fill, compact (using hand held mechanical compactor) and level topsoil for turfing at nominated areas. Turfing with 'A' grade (green couch) turf is required as a default where filling with top soil is required at sites identified in Part D Attachments Attachment 2.1: SPS Scope Summary Table. The thickness of topsoil provided in the table is post compaction thickness. Newly planted turf must be watered twice weekly for eight weeks commencing the day it is planted. Assume 200mm thick is thickness is not provided in Part D Attachments Attachment 2.1: SPS Scope Summary Table.
- Wet well and valve chamber discharge chamber covers must be constructed to be fully sealed and odour tight. The sealing of the covers must retain odour within the wet-well and discharge chamber from escaping. The Part C Technical Specifications Attachment 1.1: Standard SPS Drawings do not show full details necessary to achieve a fully tight seal; it is the Contractors responsibility to ensure that the covers are fully sealed and odour tight.

5.3 Covers, Grates, and Concrete (for WPS sites only)

Covers, handrails, grates and concrete works must be installed in accordance with the design intent. Any variances to the endorsed designs must be approved by the Superintendent.

The following must be noted:

- At certain sites the access(refer to Part D Attachments: Attachment 3.1: WPS Scope Summary) opening into the pumping station chamber is required to be enlarged. Mechanical hand held cutter and hammer can be used for the purpose, but ensure the Principal's assets within the pumping station chamber and above ground are protected at all times.
- Reinforcement protruding from the cut concrete surface must be removed by cutting it to a depth of 20mm below the finished surface. The remaining void must be filled with high cement grout or epoxy cement (Megapoxy or equivalent) and rendered smooth.
- Locations of cut-out openings on the grates are not provided in this document and must be determined on site. Assume openings are 100mm by 100mm square and up to three cut-outs openings at each end (total of six per WPS) of the WPS for pricing purposes. Safety grates must be individually designed based on the numbers and position of cut-out openings.

5.4 Bollards and Wheel Stops

Installation of bollards and heavy duty concrete wheel stops are required at certain sites nominated in Part D Attachments, Attachment 2.1: SPS Scope Summary, Attachment 2.2: SPS Site Data Sheets, Attachment 3.1: WPS Scope Summary, and Attachment 3.2 WPS Site Data Sheets. Wheel stops must conform to AS2890.1:2004. Parking facilities. Part 1:Off street car parking.

The Superintendent will provide at least five days' notice to the Contractor to meet up on site and mark out its location where/if the nominated location is not clearly defined in the site data sheets; refer to Part D Attachments, Attachment 2.2: SPS Site Data Sheets.

Check for buried services prior to any excavation/digging/installation of bollards. Refer Part C Technical Specifications Attachment 1.4: General PUP Service Location Specification. Should there be presence of buried services at the position nominated by the Superintendent or if it is shown in the site data sheets; request the Superintendent to re-nominate an alternate position. The process of checking the re-marked position for services must be resumed.

Where the marked location of the bollard is on a concrete slab, prior to installation, check for location (using non-destructive method) of reinforcement before any chemset anchor is drilled into the slab. Should reinforcement be detected, the position of the anchor must be shifted such that it does not clash with the reinforcement.

5.5 Protection of Principal's Assets During Construction/Installation Activities

Undertake precautionary measures to:

- Prevent any material from falling into the SPS wet-well and valve chamber/discharge chamber, and, the WPS chamber during the construction and installation activities.
- Prevent damage to the Principal's assets.

In the event damage to the Principal's assets occurs during the course of construction and installation activities, report the incident immediately to the Superintendent. Repair or replace the asset at no cost the Principal.

6. On-maintenance Inspection and Handing Over

On completion of works at each site, the Superintendent will conduct an on-maintenance inspection of the completed works.

Prior to carrying out the on-maintenance inspection, prepare a check-list for the Superintendent's approval. This checklist must be incorporated into an on maintenance acceptance certificate and be used during the on-maintenance inspection exercise for each site. A draft certificate is provided in Part D Attachments, Attachment 4.1: SPS On-maintenance Inspection Sheet and Attachment 4.2: WPS On-maintenance Inspection Sheet for reference and to be used in the preparation of the final check-list and final on-maintenance acceptance certificate.

Ensure that the following items are in order before inviting the Superintendent to undertake the on-maintenance inspection:

- All items are securely attached
- Underneath of frame of covers are sealed as per design
- Odour tight with no gaps to allow odour escaping
- Covers, grates and handrail gate opens to the correct orientation
- Handrails gate opens fully (i.e. approximate 170 degrees)
- Beam across void do not hinder maintenance procedures of pump
- Dimensions of handrails, toeboards, gap between toeboard and ground, lanyard at correct position
- Correct location of drain hole in keyway chamber of covers
- Handrail gate can be opened without hindrance
- Distance from wet-well void opening edge to handrail meets specifications
- Clear opening of handrail gate conforms to requirements
- Correct toeboard connection detail type at the pump guide rail side of the handrail
- Opening on grate to access valve spindle are in the correct location
- As constructed lift weight as checked on site complies with design calculations and does not exceed the maximum lifting weight of 16kg
- Padlock can easily be inserted into padlock tongue.

If there is rectification work to be completed at the site, then the temporary tag and fencing must remain in place until such a time the Superintendent considers all rectification works have been satisfactory completed and the site safe to be put on maintenance. Once a site has been placed on maintenance by the Superintendent, temporary fencing must be removed within a period of 24 hours.

7. Dilapidation survey

Undertake a survey and compile a report including high resolution photographs of pre-existing site conditions before mobilising to site and at completion of works after de-mobilisation in close proximity to the proposed work area. The photographs must be comprehensive (minimum requirement all photos must be date stamped, colour, file types both jpg and pdf, a minimum resolution of 8MP to ensure adequate details can be seen of any known issues, for example cracks in driveways) and have a high level of detail in order to thoroughly survey the existing condition of surrounding features, before and after the works. The survey must include, but is not limited to, the following:

- Each property abutting the area of works
- Fences, landscaping, and buildings.
- Nearby roadway, kerbs, gutters and footpath
- Nearby existing vegetation, fences, walls
- Driveways
- Trees, and
- All nearby existing structures, and power poles.

Dilapidation survey of pre-existing site conditions must be submitted to the Superintendent prior to mobilising to site for each of the four packages. Note that the photographs provided in Attachment D: Site Photographs and Site Location Plans are only for reference.

A final dilapidation survey report must be submitted to the Superintendent within two days after demobilising from site for every package. This final report must include information from the preconstruction dilapidation report and survey information obtained after demobilisation from the site.

In addition to providing electronically in a USB storage device, all photographs in the report must be identified by pump station number and address, sub-group number, dated and submitted in a bound copy for each package.

The information included in this survey or other relevant information will be utilised by the Superintendent in assessing the standard of restoration required. Where sufficient information has not been recorded to allow the Superintendent to determine the pre-existing conditions, the Contractor will be held responsible for full restoration costs resulting from any claims made related to these works.

8. Restoration

For the purpose of this Contract, restoration works are defined as restoration of all areas, surfaces, plantings and structures disturbed, damaged or removed during the works to pre-existing conditions.

Undertake any remedial works, which are necessary to return the site to its original condition, to the satisfaction of the Superintendent. Refer Part B Clause 19: Standard Specifications.

9. Working hours

The hours of work referred to in Section 5: Special Conditions of Contract, Clause 32, are Monday to Friday between 7am and 4.30pm excluding public holidays. Should the Superintendent, upon written application to do so, permit work to take place outside of these hours, comply with the clause 'General Environmental Duty' as contained in the *Environmental Protection Act 1994*.

Where work is to be undertaken by the Contractor out of normal working hours to minimise disruption of service to customers, the Superintendent may direct the Contractor to undertake this work at a time to suit the operational requirements of the network.

10. Site location and limits

The site of each individual pumping station is indicated in Part D Attachments, Attachment 2.1: SPS Scope Summary Table and Attachment 3.1: WPS Scope Summary Table. Photos of each site are provided in Part D Attachments, Attachment 5.1: SPS Site Photographs and Attachment 6.1: WPS Site Photographs. Site location of each site is provided in Part D Attachments, Attachment 5.2: SPS Location Plans and Attachment 6.2: WPS Location Plans.

The site of the works is restricted to only the immediate vicinity of the SPS and WPS sites and within the access driveways into these sites as approved by the Superintendent. These limits may only be altered with the written approval of the Superintendent. Do not enter onto the Principal's workplace other than to undertake the works assigned. No site offices or material storage overnight is permitted at any of these sites.

The commencement of any activities on site must not occur without first advising the Superintendent. Submit details outlining the extent of any excavation required.

All works performed must be in a manner such as to minimise any disruption or hindrance to current operational or maintenance activities of the SPS and WPS.

All roadways and access points to the sites are to be kept clear and accessible at all times. Parking of vehicles or equipment within existing roadways will only be permitted for short-term loading or unloading of equipment or facilities, and only with the prior approval of the Superintendent. All other vehicles, including vehicles used by personnel to commute to the site, must be parked in such a manner as to not obstruct roadways or access to residential and commercial dwellings in the vicinity of the pumping stations. Vehicles must not be parked or driven on grassed areas, lawns, residential driveways; footpath verges or parks unless otherwise pre-approved by the Superintendent.

11. Contract Specific Constraints

The Principal advises that the following requirements and/or constraints exist with respect to the execution of this Contract. This list should not be read as exhaustive:

- In the event that any emergency work occurs which requires the Principal to access the SPS or WPS site without notice while work is undergoing at a particular site; work must cease immediately and the site made safe where practicable until such emergency work by the Principal is completed, and the Principal's working crew demobilises from site. The Superintendent must be advised immediately when such a situation occurs
- The SPS or WPS switchboard must not be opened (or attempt to be opened) at any time. If the pumping station's "intruder alarm" is activated as a result of unauthorised access, and the switchboard alarm activated, a charge of \$400 for each day time infringement or \$600 for each night time infringement will be levied. Payment for any infringements must be made through the Principal's Recoverable Private Works Process
- Existing SPS and associated sewerage infrastructure and WPS water infrastructure must remain operational at all times unless arrangements have been made with the Superintendent for temporary shutdown
- The Principal's personnel may propose to undertake routine maintenance of electrical and/or mechanical equipment and ancillary facilities within all areas of the SPS and WPS sites and may require access to facilities at various times throughout the contract. Requests for access and agreement to undertake maintenance activities will be directed through the Contractor's site engineer or supervisor and agreement to such requests are not to be unreasonably withheld

12. Work Health and Safety

12.1 Status of Contractor in terms of Work Health and Safety Act

Contractor as principal contractor

In accordance with Clause 49 of the Special Conditions of Contract, be responsible for the performance of the functions of the principal contractor within the meaning of the Work Health and Safety Act 2011 and Regulation 2011 (collectively known as 'the Act').

Upon accepting a tender by the Principal the Contractor is appointed as principal contractor in relation to the construction project under the Regulation. The Principal will lodge a Building and Construction Industry Notification and Payment form with the Building and Construction Industry (Portable Long Service Leave) Authority and will pay the prescribed fees.

Provide to the Superintendent, in accordance with the Act, a design report on the health and safety aspects of any designs, (including temporary works) carried out as part of this Contract, prior to the commencement of any construction works.

The Principal advises that maintenance and operational access is required to all new and existing infrastructure and further discloses, for the purpose of design, that the purposes of the proposed infrastructure are transportation of sewerage.

12.2 Safety Management Plan

Provide a comprehensive SMP which complies with Work Health and Safety Act 2011 and applies to all activities expected to be undertaken to carry out all works under this Contract.

12.3 Principal's Site Inductions

Prior to attending a Principal's operational site, all Contractors' personnel including subcontractors must complete the relevant induction/s as appropriate for the specific work site:

- General Induction to Gold Coast Water (Compulsory for all of the Principal's operational sites).
- Induction to Sewage Treatment Plants.
- Induction to Itinerant and Construction Sites (Principal controlled).
- Induction to Reservoirs, Pump Stations and other sites (i.e. re-pump stations, manholes and valve pits).

The inductions will inform workers of potential risks that they may encounter when undertaking work at a Principal's operational site. They also outline the required safety expectations and the responsibilities of workers when on a Principal's operational site.

To arrange the online induction process contact GCWtraining@goldcoast.qld.gov.au and provide them with the following information:

- Name of company.
- Name of primary company contact.
- Email of primary company contact.
- ABN of company.
- Names of people to be inducted.
- Contact in CCR or Superintendent.
- Sites inductees will be required to access.
- Name of induction/s to be completed of the following:
 - General Induction to Gold Coast Water
 - Induction to Itinerant and Construction Sites
 - Induction to Reservoirs, Pump Stations and Other sites
 - Induction to Sewage Treatment Plants

Individual passwords will be provided for each worker to complete the required inductions. A record of the inductions completed will be printable for each worker. It may be prudent for you to request access for all workers who could potentially attend an operational site, rather than the minimum number of workers who will attend site. This will facilitate a faster provision of access for your workers if your resourcing requirements suddenly change.

If the required inductions have not been completed and copies supplied to the Superintendent or the CCR where applicable prior to the date of possession of site, access to the operational site may be restricted until the relevant inductions have been completed.

If requested individual workers must be able to present their individual induction cards while working on the site.

12.4 Known Hazards

In accordance with the *Work Health and Safety Act 2011* the known hazards for this project identified by the Principal are listed below. This assessment is not exhaustive and may exclude risks that are typical of work practices. Perform a risk assessment and subsequent Safe Work Method Statement of the hazards at each work site prior to the execution of the Works.

- The assets may overflow and surcharge causing safety risks and environmental damage if interfered or operated. Mechanical or electrical devices or instruments of the SPS or WPS should not be interfered with. Work under this Contract is limited to replacing (or retrofitting) the covers of the wet-well and valve/discharge chamber.
- Animals including insects, snakes and spiders that bite or sting.
- Extremes of heat or cold.
- UV radiation exposures longer than 15 minutes.
- Serious personal injuries may transpire if equipment is not installed in accordance with the specific manufacturer's installation procedures.
- There may be physical injury and microbiological contamination of persons coming into contact with sewage if the works are not properly managed or controlled, or if personal hygiene procedures are not followed.
- There may be electric shock/burn injuries if organisational/statutory requirements for the works are not observed.
- There may be manual handling injuries if the Work Health and Safety Act 2011 and any specific manufacturer's installation procedures are not followed.
- There may be risk of asphyxiation or other serious injuries if 'Safe Entry to Confined Spaces' Regulations and standard operating procedures are not adhered to.
- It is the Contractors responsibility to ascertain if site contamination exists.
- PUP and other services may exist at or adjacent to each Works site. The existence, location, alignment, depth, size or type of PUP or service must be confirmed. There may be risk of disruption to PUP and users of the PUP or service if there is inadequate investigation undertaken to locate existing PUP and other services in advance of construction. Refer Attachment C4: General Public Utility Plant / Service Location Specification.
- Some sites are located along roadside with reasonably heavy traffic.
- Electrical and/or mechanical services safety.
- Construction safety including confined spaces (work that will be carried out in or near a confined space).
- Safety of 'others'.
- Biological hazards (substances which consist of, or which may contain micro-organisms or non-viable products of living matter, which can create a risk to health eg. virus, bacteria. Examples – HIV, Hepatitis (A, B and C), Avian Influenza (Bird Flu), tetanus, typhoid fever, Q fever, Hendra Virus, dermatitis etc).

- Fall from heights (by a person from one level to another that is reasonably likely to cause injury to the person or any other person). The work over an opened pumping station wet-well and valve chamber cover directly exposes persons in the vicinity to this risk.
- Drowning from falling into the wet-well.
- Hazardous and flammable atmospheres (eg. confined spaces of the SPS where gases, vapours or mist are hazardous). The work over an opened pumping station wet-well and valve chamber cover directly exposes persons in the vicinity to this risk.
- Use, handling and storage of hazardous chemical/dangerous goods.
- Inadequate lighting (including work completed at night as well as inadequate task lighting, inadequate access and stair lighting and inadequate emergency lighting).
- Operation of high risk plant and equipment (eg. air conditioner, cooling towers, lifts, escalators).
- Presence of hazardous airborne contaminants (eg. gases and vapours or dusts like lead, silica or pesticides). The work over an opened pumping station wet-well and valve chamber cover directly exposes persons in the vicinity to this risk.
- Slips, trips and falls (eg. unstable surfaces within the vicinity of the pumping station, uneven ground level, wet, slippery surfaces).
- Under ground or overhead utilities (gas, water, electricity etc).
- Use of explosives or explosive tools (eg. power tools used to fasten cover frame into concrete slab).
- Violence and aggression (verbal/physical abuse from members of the general public).
- Work completed outside of normal operational hours (work extending or scheduled outside core business hours that may lead to fatigue).
- Work involving structural alterations or repairs that require temporary support to prevent collapse.
- Work in remote or isolated areas.
- Young/unskilled labour (use of day labour).

12.5 Safe work

Diligent adherence is required to all legislative WHS requirements for all persons on all work sites at all times. For works under this Contract the Contractor must provide the Superintendent, as and when requested, SWMS and/or Safe Work Procedures showing how all potential hazards will be mitigated for the safe completion of the works. Particular attention must be made to detail fall preventive controls prior to undertaking work where there is a potential of fall from heights hazard.

12.6 Sun protection requirements

Maintain at all times the minimum WHS standard for UV exposure including suitable controls for any worker that is exposed to UV for greater than 15 minutes. PPE standards such as hard hat, broad brimmed hats, long sleeves and trousers must be worn unless the Site specific risk assessment exempts this requirement. Copies of such must be supplied to the Superintendent for acceptance.

12.7 Personal Protective Equipment

SWMS must establish the appropriate type PPE which is necessary for the particular works. The Principal requires as a minimum that hard-hat, full length trousers and shirt, and safety eye ware should be worn by every individual entering the exclusion zone of the work site area.

The work exclusion zone must be clearly defined in the SWMS and on each site.

13. Temporary power supply

Do not use power supply from the Principal's facilities. Portable power generation devices must be used instead. Such devices will be fitted with emission control devices to comply with local and/or statutory regulations. The permitted times of use of such equipment may also be restricted by local and/or statutory regulations, comply with all such Regulations.

Upon request to the Superintendent and where available, the Principal may provide a limited power supply from existing facilities. The cost of providing this power will be charged. Provide fused and earth leakage protected distribution board as the interface to the Principal's power supply and the board will be installed by the Principal's electricians who will establish the current load. Any costs associated with the installation and later disconnection of the board by the Principal's electricians will be charged.

The provision of this power is not guaranteed. Any inadequacy in supply e.g. interruptions, voltage, current does not relieve the Contractor of their responsibilities under this Contract.

All costs associated with the provision of temporary power supplies must be included in the contract.

14. Community Liaison

Liaise with the Principal with regard to the public relations prior to commencement of Work and during the Contract term. The Principal will identify all customers that will be affected, impacts on the community, and any mitigation or control measures required to be put in place during construction.

Hand deliver notification letter to an average of ten properties in the vicinity of every pumping station. Further details are provided in Part A: General Specification: Clause 13: Notification of proposed works or disruption to service.

On completion of delivering the letters, immediately issue in writing to the Superintendent confirmation of delivery.

Any enquiries or complaints received by the Contractor from residents or other members of the public must be forwarded to the Superintendent within 24 hours.

15. Quality assurance system

Maintain a QAS for the duration of the contract and ensure that appropriately skilled workmen, site conditions (both on-site and off-site as applicable) and plant requirements are provided and maintained to ensure that prescribed quality outcomes are achieved throughout the contract period. The Principal prefers that this QAS be in accordance with AS/NZS ISO 9001.

Be responsible for the quality of all products and services supplied under the Contract, and provide all necessary facilities and resources to perform the inspection and tests required to achieve the specified quality.

In the event that any part of the works performed under this Contract fail to meet the specified product or performance requirements, carry out all necessary remedial works at no further cost.

In the event that any part of the works performed under this contract are found to be defective following the issue of a Certificate of Practical Completion and during the Defects Liability Period, carry out all necessary remedial works at no further cost. Following completion of the remedial works all works are subject to a 12 month Defects Liability Period from the date of completion of the remedial works.

16. Authorities, statutory requirements and approvals

Comply fully with the rules, regulations and by-laws of any Federal, State or Local Authority that have jurisdiction over the area within or adjacent to the site of Works, including but not limited to:

- Work Health and Safety Act and Regulations.
- Electricity Act and Regulations.

Prior to commencement of work, obtain all necessary statutory approvals, permits and/or licenses necessary for the undertaking of the contract works and provide the Superintendent with a copy of the above approvals and permits prior to commencement of the works.

17. Existing public utilities

Where public utilities or other Principal utilities, whether overhead, at the surface, underground or in conduits, exist at or in the vicinity of the site of the works, take all care necessary to protect such utilities from damage (Refer Attachment C4: General Public Utility Plant/Service Location Specification).

Consult with and manage all interfaces with service authorities controlling facilities in the vicinity of the works. These authorities include but are not limited to communications, gas and power.

In the case of any damage occurring to such utilities, the matter must be immediately reported to the Department, Public Authority, Utility or Company concerned and to the Superintendent. The cost of any necessary repairs and / or renewals will be borne entirely by the Contractor

Any PUP damaged or interfered with during the works is to be restored to its previous condition at the earliest possible opportunity, in accordance with the requirements of the respective asset owner. Failure to arrange/undertake such repairs as required by the asset owner, then the Superintendent may arrange for the repairs and the Superintendent has the right to deduct the costs incurred from monies or securities otherwise owing or held.

18. Signage and publicity

18.1 Project Promotional Signage

Approved project promotional signage must be displayed on site for the duration of the Contract.

The Principal will provide project promotional signboard(s) for display at each site. The signboards must be displayed whenever site works of any kind are being undertaken.

The project promotional signboard(s) will be in the form of a 900mm x 600mm sandwich board.

18.2 Work Health and Safety Signage

Signage must be installed in accordance with *Work Health and Safety Regulation 2011* including Section 308 which identifies the details of the Principal Contractor.

18.3 General

Collect project promotional signage from the Principal's collection point as directed by the Superintendent.

Erect signboard(s) at the extremities of the site where directed by the Superintendent.

Be responsible for maintenance and regular inspection of all project signboards, until a Certificate of Practical Completion is issued, progressively undertaking any repairs to damaged signboards, and notify the Superintendent immediately in the event of vandalism or theft of any signboards.

Undertake dismantling and removal of signboards and associated fittings prior to demobilisation. Project promotional signs will remain the property of the Principal and must be returned to the Principal's nominated return point as directed by the Superintendent.

Do not erect or display any signs or advertising other than the approved project signboards.

Do not issue any information, publication document or article for publication concerning the project in any media without prior approval of the Principal. Refer any media queries concerning the project to the Superintendent.

19. Standard Specifications

Section 5: Special Conditions of Contract Clause 2 is supplemented by the following Standard Specifications and Standard Drawings.

All works carried out under the Contract must be undertaken in accordance with the requirements of the current edition of the Principal's Standard Specifications and Drawings:

- Gold Coast City Council Standard Specification SC6.9.7.1 – Clearing and grubbing
- Gold Coast City Council Standard Specification SC6.9.7.2 – Earthworks
- Gold Coast City Council Standard Specification SC6.9.7.3 – Stormwater drainage
- Gold Coast City Council Standard Specifications and Drawings Vols. 4, 5 and 6
- Gold Coast City Council Standard Specification SC6.9.7.4 – Roadworks and bridges

The specifications listed above can be obtained from the following website link -
<http://cityplan.goldcoast.qld.gov.au/Pages/plan/viewer.aspx?vid=10133>

Any Standard Specifications included as an Attachment to this specification take precedence over any equivalent Standard Specification available from the website:

Use and placement of wheel stop to AS/NZ 2890.1: 2004. Parking facilities. Part 1: Off street car parking.

If work scope included in this contract is not adequately covered by the above Standard Specifications, then the work scope must be delivered in accordance with the following standards:

- Australian Standards / British Standards / American National Standards / Institute Standards.
- Relevant manufacturer's Standards and Specifications.



Council of the City of Gold Coast

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PART C TECHNICAL SPECIFICATIONS

ATTACHMENTS

PART C TECHNICAL SPECIFICATIONS

ATTACHMENT 1.1:	STANDARD SPS DRAWINGS
ATTACHMENT 1.2:	STANDARD WPS DRAWINGS
ATTACHMENT 1.3:	DESIGN REPORT
ATTACHMENT 1.4:	GENERAL PUP/SERVICE LOCATION SPECIFICATION

PART D ATTACHMENTS

ATTACHMENT 2.1	SPS SCOPE SUMMARY
ATTACHMENT 2.2	SPS SITE DATA SHEETS
ATTACHMENT 3.1	WPS SCOPE SUMMARY
ATTACHMENT 3.2	WPS SITE DATA SHEETS
ATTACHMENT 4.1	SPS ON-MAINTENANCE INSPECTION SHEET
ATTACHMENT 4.2	WPS ON-MAINTENANCE INSPECTION SHEET
ATTACHMENT 5.1	SPS SITE PHOTOGRAPHS
ATTACHMENT 5.2	SPS LOCATION PLANS
ATTACHMENT 6.1	WPS SITE PHOTOGRAPHS
ATTACHMENT 6.2	WPS LOCATION PLANS

ATTACHMENT 1.1

STANDARD SPS DRAWINGS

GENERAL NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THIS SET OF STANDARD ALUMINIUM ACCESS COVER AND HANDRAILS DRAWINGS ARE TO BE USED AS A GUIDE ONLY FOR THE MANUFACTURE AND FABRICATION OF ALUMINIUM COVERS AND FRAMES OVER WET-WELLS AND VALVE CHAMBERS WHERE APPLICABLE. THESE DRAWINGS SHALL COMMUNICATE THE INTENT AND FUNCTION, AND ARE NOT FABRICATION OR CONSTRUCTION DRAWINGS. ALL MEASUREMENTS ARE INDICATIVE ONLY. THE MANUFACTURER IS RESPONSIBLE FOR THE FULL STRUCTURAL DESIGN OF ALL COMPONENTS WITH FULL RPEQ CERTIFICATION.
3. EACH COVER AND FRAME SHALL BE DESIGNED TO SUIT INDIVIDUAL SITE CONDITIONS AND STRUCTURAL COMPONENTS. LOCKING AND SEAL ARRANGEMENTS MAY VARY TO SUIT THE DESIGN OF THE MANUFACTURER / FABRICATOR, HOWEVER THE GENERAL PRINCIPLES AND FUNCTION SHALL BE AS DETAILED IN THESE DRAWINGS.
4. THE STRUCTURAL COMPONENTS ON THESE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE STRUCTURAL DESIGN ACTIONS OF AS/NZS1170.
5. ACCESS COVERS IN NON-TRAFFICABLE LOCATIONS AND SUBJECT TO PEDESTRIAN LOADS ONLY, SHALL BE DESIGNED FOR CLASS A LOADINGS AS SPECIFIED IN AS3996 SECTION 3.
6. SAFETY GRATES SHALL BE DESIGNED FOR PLATFORM LOADINGS IN ACCORDANCE WITH AS1657.
7. HANDRAILS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH AS1657.
8. FOR A HINGED COVER OR GRATE THE MAXIMUM LIFTING WEIGHT AT EACH LIFTING POINT SHALL NOT BE GREATER THAN 16kg.
9. COVERS MUST BE DESIGNED SUCH THAT THEIR TOTAL LIFTING WEIGHT (W_l) DOES NOT EXCEED 16kg, UNLESS APPROVED OTHERWISE BE THE PRINCIPAL.
10. COVERS WITH A TOTAL LIFTING WEIGHT (W_l) GREATER THAN 16kg, SHALL BE DESIGNED FOR A TWO PERSON LIFT AND THE TOP OF THE COVER SHALL BE MARKED WITH AN ETCHED PLATE STATING 'OVER 16kg'.
11. THE UNDERSIDE OF THE COVERS SHALL BE MARKED WITH AN ETCHED PLATE, STATING THE MANUFACTURER'S NAME OR REGISTERED TRADEMARK, AND MONTH AND YEAR OF MANUFACTURE.
12. SWITCHBOARD (WHEN ITS DOOR IS OPEN) AND HANDRAILS (WHEN ITS GATE IS OPEN) MUST HAVE A MINIMUM CLEARANCE OF 600mm.
13. THE ACCESS COVER OPENING TYPE AND HANDRAIL ARRANGEMENT TYPE SHALL BE SPECIFIED IN THE PROJECT DRAWING. THE SPECIFIED TYPES SHALL ALLOW FOR THE SAFE REMOVAL OF PUMPS AND COMPONENTS WITHIN THE WET-WELL AND VALVE CHAMBER AS PER THE MANUFACTURER'S RECOMMENDATIONS, AND HEALTH AND SAFETY GUIDELINES.
14. ACCESS COVERS LOCATED WITHIN PEDESTRIAN WALKWAYS (e.g. FOOTPATHS) THAT DO NOT HAVE A HANDRAIL AROUND THE PERIMETER SHALL BE DESIGNED WITH A FLUSH COVER IN ACCORDANCE WITH AS3996 SECTION 3.3. A FLUSH COVER DESIGN IS NOT SHOWN IN THESE STANDARD DRAWINGS.
15. PRIOR TO APPLICATION OF SIKAFLEX TANK AND SIKAFLEX PRO (OR APPROVED EQUIVALENT), CONCRETE SURFACE UNDERNEATH EXTERNAL FRAME OF WET-WELL AND UP TO 50mm AWAY FROM EXTERNAL FRAME, MUST BE SCRUBBED CLEAN AND GRINDED BEFORE FILLING ALL VOIDS WITH EPOXY MORTAR, AND RENDERED SMOOTH SUCH THAT ANY IRREGULARITIES ON THE THE CONCRETE SURFACE ARE NOT MORE THAN 5mm.

MATERIAL NOTES

1. ALL ALUMINIUM COMPONENTS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH AS/NZS 1664.
2. ALL ALUMINIUM SHALL BE MARINE GRADE TO AS1734.
3. ALUMINIUM SHALL ONLY BE ANODIZED IF SPECIFIED BY THE PRINCIPAL.
4. ALL STAINLESS STEEL USED SHALL BE GRADE 316.
5. ALL STAINLESS STEEL NUTS AND BOLTS TO BE ASSEMBLED WITH AN ANTI-GALLING COMPOUND 'DURALAC' OR APPROVED EQUIVALENT.
6. ALUMINIUM AND STAINLESS STEEL SHALL NOT BE ALLOWED TO COME IN CONTACT WITH EACH OTHER UNLESS ADEQUATELY INSULATED WITH APPROVED SEALANTS, GASKETS, WASHERS AND SLEEVES.
7. ALL ACCESS COVERS SHALL HAVE THEIR TOP SURFACES COVERED WITH A GREEN COLOURED 'EPIREZ SAFE STEP 550' EXPOXY ANTI-SLIP COATING OR APPROVED EQUIVALENT.
8. WHERE ALUMINIUM IS IN CONTACT WITH CONCRETE, THE ALUMINIUM SHALL BE PAINTED WITH A MINIMUM TWO COATS OF BITUMINOUS PAINT OR APPROVED EQUIVALENT.
9. REPLACEABLE SEALS SHALL BE PROVIDED ON THE UNDERSIDE OF THE WET WELL COVERS TO PROVIDE A FULL ODOUR TIGHT SEAL.
10. ALL ALUMINIUM WELDING TO COMPLY WITH AS/NZS1665 AND ISO18273.

DRAWING INDEX

DRAWING No.	DRAWING TITLE
79887.001	DRAWING INDEX, NOTES AND LEGEND
79887.002	WET-WELL ACCESS COVERS OPENING OPTIONS
79887.003	VALVE CHAMBER ACCESS COVERS OPENING OPTIONS
79887.004	WET-WELL AND VALVE CHAMBER HANDRAILS ARRANGEMENT OPTIONS
79887.005	WET-WELL ACCESS COVERS GENERAL ARRANGEMENT PLANS
79887.006	WET-WELL ACCESS COVERS DETAILS
79887.007	VALVE CHAMBER ACCESS COVERS GENERAL ARRANGEMENT PLANS - TYPE A
79887.008	VALVE CHAMBER ACCESS COVERS GENERAL ARRANGEMENT PLANS - TYPE B
79887.009	VALVE CHAMBER ACCESS COVERS AND SAFETY GRATE DETAILS
79887.010	HANDRAILS AND TOEBOARDS DETAILS
79887.011	MISCELLANEOUS DETAILS - SHEET 1 OF 2
79887.012	MISCELLANEOUS DETAILS - SHEET 2 OF 2

LIFTING WEIGHT CALCULATION

THE TOTAL LIFTING WEIGHT FOR A HINGED COVER SHALL BE DETERMINED AS FOLLOWS:

$$W_l := \frac{\frac{W_c \cdot L_c}{2 \cdot D_{lp}}}{\sin\left(\tan^{-1}\left(\frac{V_l}{D_{lp} + H_l}\right)\right)}$$

WHERE

- W_l

=

THE TOTAL COVER LIFTING WEIGHT (kg)
(REFER GENERAL NOTES 8, 9 & 10)

W_c

=

THE TOTAL COVER WEIGHT (DEAD WEIGHT) (kg)

L_c

=

THE LENGTH OF THE COVER (m)

D_{lp}

=

THE DISTANCE TO THE LIFTING POINT (m)

V_l

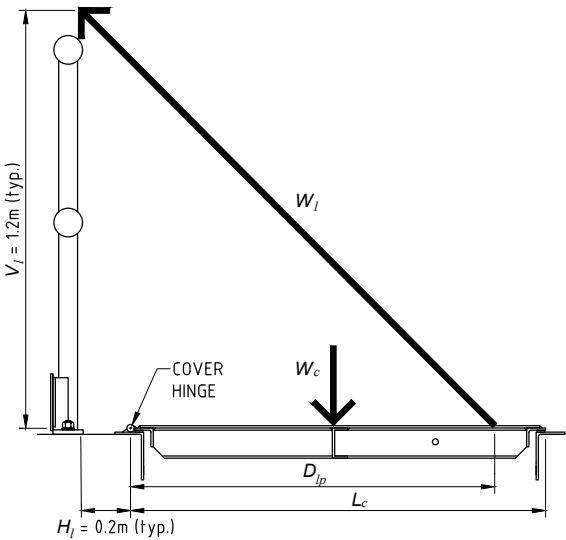
=

THE LIFT VERTICAL HEIGHT, 1.2m TYPICAL

H_l

=

THE LIFT HORIZONTAL OFFSET FROM THE HINGE,
0.2m TYPICAL



LEGEND

A

3

DETAIL LETTER
SHEET WHERE SHOWN *

A

2

DETAIL LETTER
SHEET WHERE TAKEN *

1

3

SECTION NUMBER
SHEET WHERE SHOWN *

1

2

SECTION NUMBER
SHEET WHERE TAKEN *

* DASH INDICATES SHOWN ON SAME SHEET

NEWELL

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T: (07) 5575 7191
W: newelleng.com.au

Authorised for release
Name: L. FRISKE
Original Signed
Signed: BY L. FRISKE
Date: 31/03/15

Design Project Officer
--
Designed/Drawn
D. YANG

GCOC Project Records File Number
--
GCOC Project Identifier\--CAD File Name
--

GCOC Contract Records File Number
WSS382/599/02/05

Design Checked -- Statutory Certifier
ORIGINAL SIGNED
Signed: BY L. FRISKE
RPEQ No.: 15348
Drawing Checked
ORIGINAL SIGNED
Signed: BY D. NEWELL

4	AMENDED MATERIAL NOTES	L. FRISKE		28/4/16
3	AMENDED GENERAL NOTES	L. FRISKE	L.F.	27/10/15
2	AMENDED NOTES AND SHEET 12 ADDED	L. FRISKE	L.F.	16/7/15
1	GENERAL NOTES 8 & 9 AMENDED	L. FRISKE	L.F.	1/6/15
0	ORIGINAL ISSUE	L. FRISKE	L.F.	31/3/15

Issue
Description
Name
Initial
Date
Design not to be amended without authorisation by Statutory Certifier

Bar Scales

Do not scale, use figured dimensions only

CITY OF
GOLD COAST.


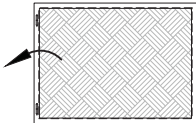
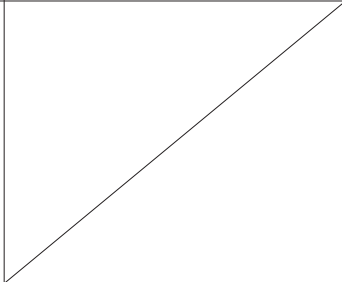
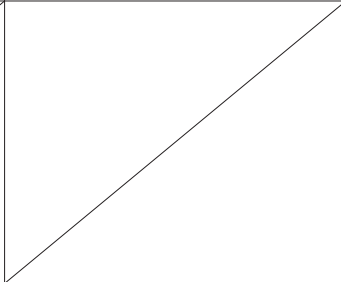
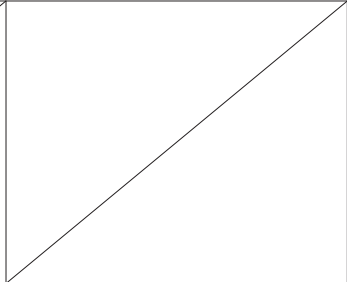
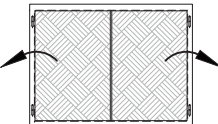
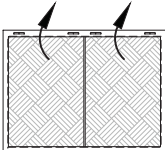
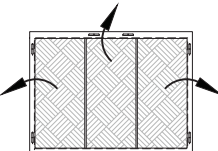
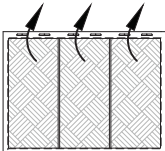
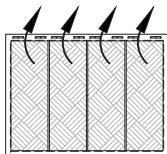
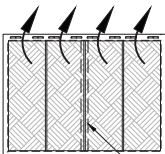
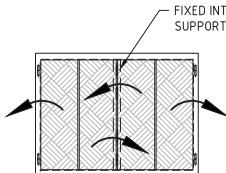
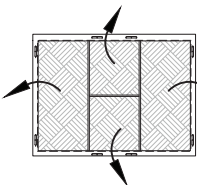
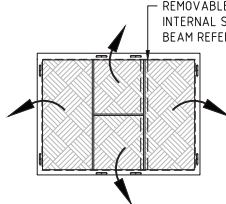
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SEWERAGE PUMPING STATION
STANDARD DRAWINGS
FALL PREVENTION COVERS AND HANDRAILS
AT SEWERAGE PUMPING STATIONS
DRAWING INDEX, NOTES AND LEGEND

Project Number
71155

Sheet of
1 12
Issue
4

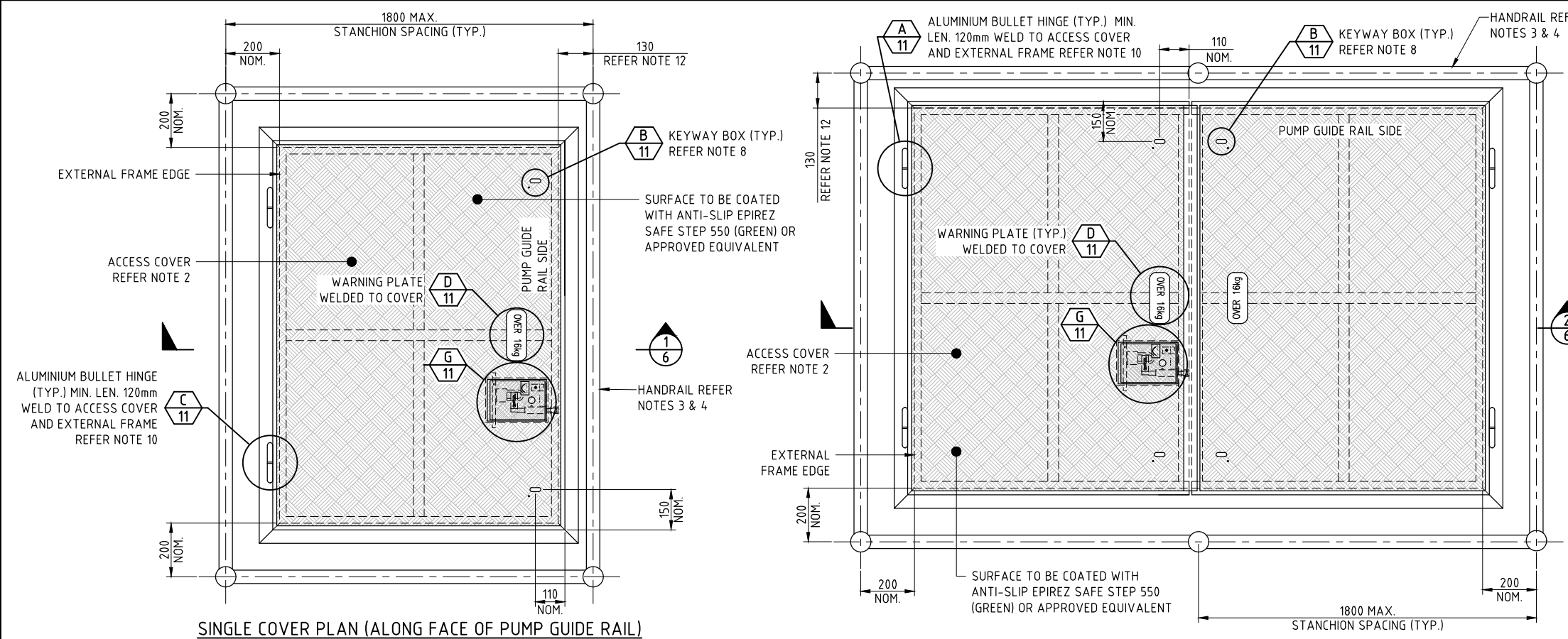
GCOC Drawing Number
79887.001

SINGLE COVER ARRANGEMENTS	<div>REFER NOTE 4</div>  <div>TYPE 1LA</div>	 <div>TYPE 1LB</div>									
DUAL COVER ARRANGEMENTS	 <div>TYPE 2LA</div>	 <div>TYPE 2LB</div>									
THREE COVER ARRANGEMENTS	 <div>TYPE 3LA</div>	 <div>TYPE 3LB</div>									
FOUR COVER ARRANGEMENTS	 <div>TYPE 4LA</div>	 <div>REMOVABLE INTERNAL SUPPORT BEAM REFER NOTE 3</div> <div>TYPE 4LB</div>	 <div>FIXED INTERNAL SUPPORT BEAM</div> <div>TYPE 4LC</div>	 <div>TYPE 4LD</div>	 <div>REMOVABLE INTERNAL SUPPORT BEAM REFER NOTE 3</div> <div>TYPE 4LE</div>						

NOTES

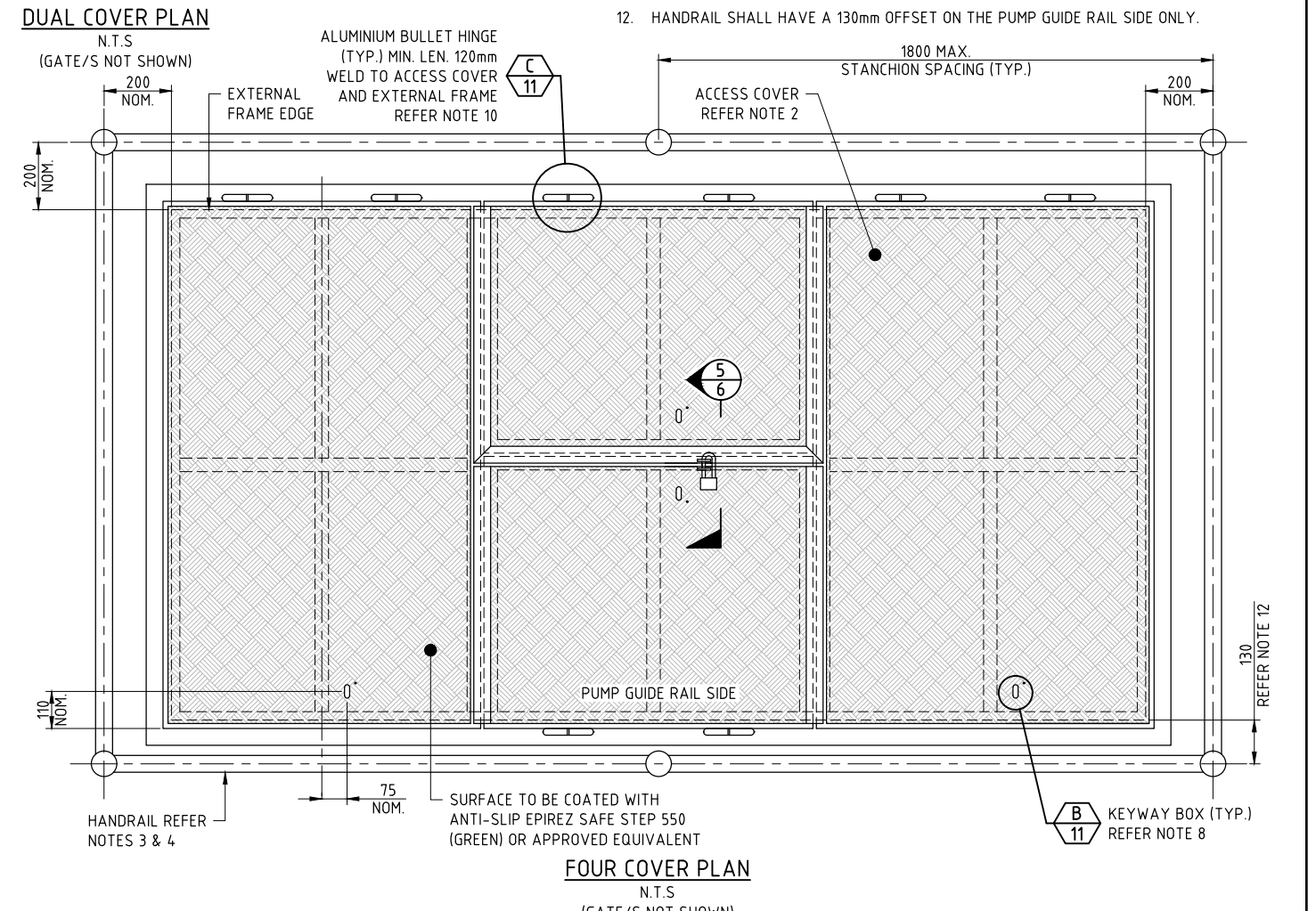
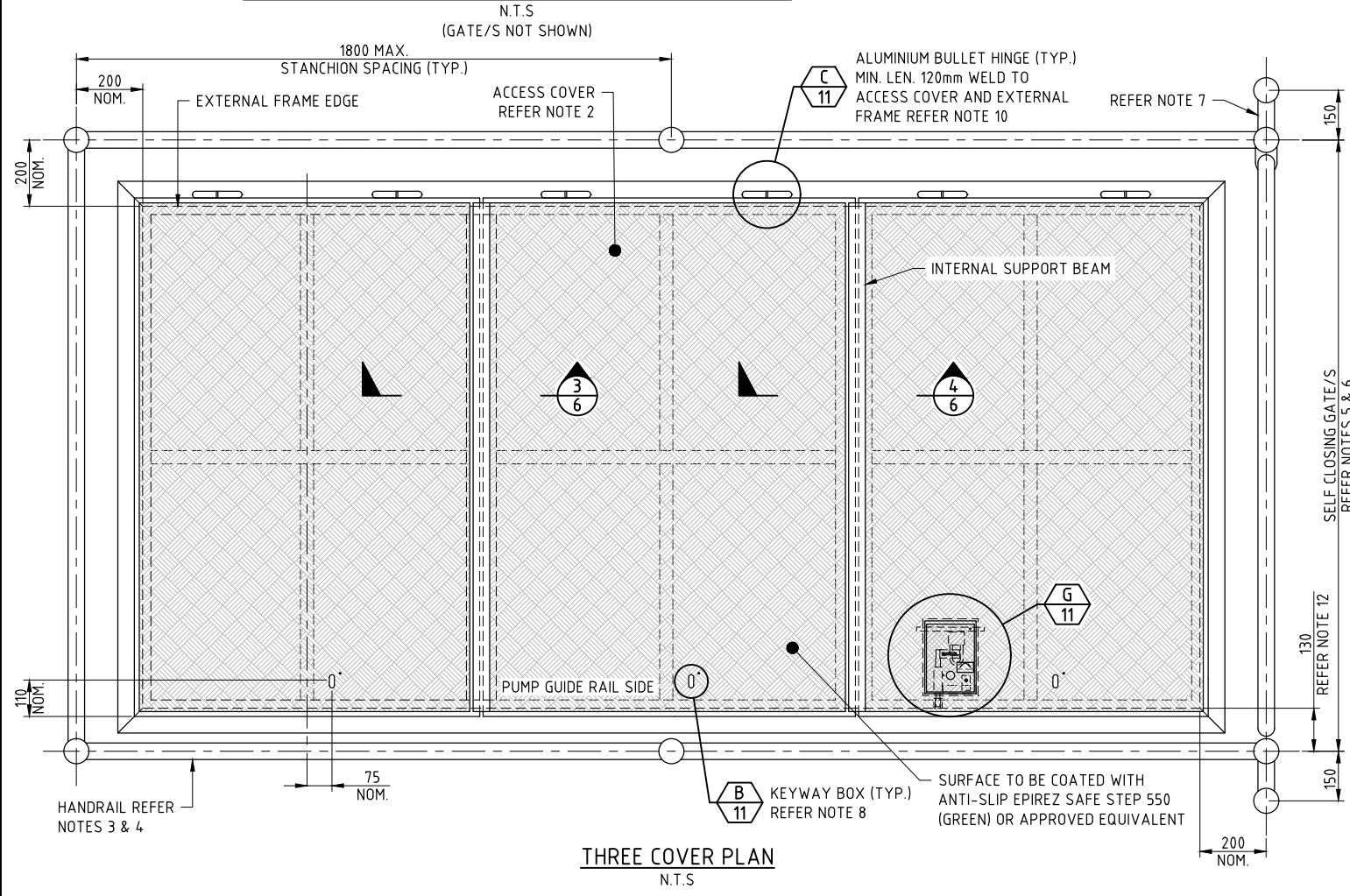
1. REFER DRG NO. 79887.001 FOR GENERAL AND MATERIAL NOTES.
2. REFER DRG NO. 79887.005 FOR WET-WELL ACCESS COVERS GENERAL ARRANGEMENT PLANS.
3. REFER DRG NO. 79887.012 FOR REMOVABLE INTERNAL SUPPORT BEAM DETAILS.
4. ARROWS INDICATE OPENING DIRECTION OF COVERS.

<div><div>NEWELL</div><div>ABN 68 121 167 128 Level 4, HQ@Robina Building 1 Lower Drive, Robina PO Box 4920, Robina Town Centre Q 4230 T: (07) 5575 7191 W: newelleng.com.au</div></div> <div>Authorised for release Name: L. FRISKE</div>		<div>Design Project Officer - Designed/Drawn D. YANG</div> <div>GDCC Project Records File Number -</div> <div>GDCC Project Identifier\\GD File Name -</div>		<div>Design Checked - Statutory Certifier ORIGINAL SIGNED Signed By: L. FRISKE RPEQ No.: 1314</div> <div>Drawing Checked ORIGINAL SIGNED Signed By: D. NEWELL</div> <div>Issue</div>		<div>2 1 0</div> <div>ADDED NOTE TO TYPE 4LC ADDED TYPE 4 COVER ORIGINAL ISSUE</div> <div>Description</div>		<div>L. FRISKE L. FRISKE L. FRISKE</div> <div>5/8/15 16/7/15 31/3/15</div> <div>Initial Date</div>		<div>Bar Scales</div> <div>CITY OF GOLD COAST.</div> <div>Do not scale, use figured dimensions only</div>		<div>SEWERAGE PUMPING STATION STANDARD DRAWINGS</div> <div>FALL PREVENTION COVERS AND HANDRAILS AT SEWERAGE PUMPING STATIONS WET-WELL ACCESS COVERS OPENING OPTIONS</div>		<div>Project Number 71155</div> <div>Sheet of 2 12</div> <div>Issue 2</div> <div>GDCC Drawing Number 79887.002</div>	
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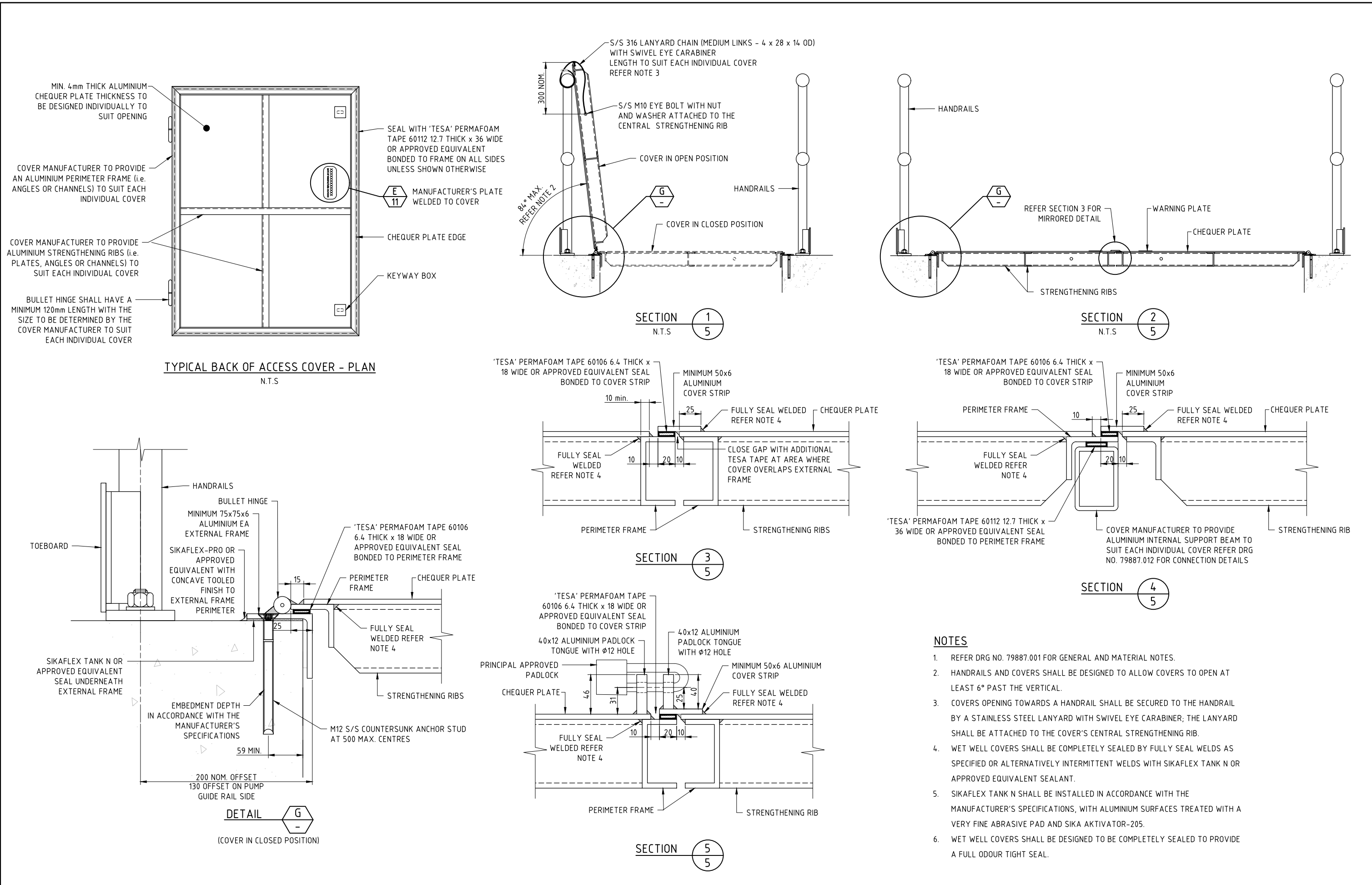


NOTES

- REFER DRG NO. 79887.001 FOR GENERAL AND MATERIAL NOTES.
- REFER DRG NO. 79887.006 FOR WET-WELL ACCESS COVER DETAILS.
- HANDRAIL LAYOUT AND GATE LOCATION/S ARE INDICATIVE ONLY, REFER DRG NO. 79887.004 FOR ARRANGEMENT OPTIONS AND DRG NO. 79887.010 FOR DETAILS.
- HANDRAIL TOEBOARDS ON THE PUMP GUIDE RAIL SIDE SHALL HAVE A 'HINGED AT BOTTOM' CONNECTION, REFER TYPE 2 TOEBOARD CONNECTION DETAIL ON DRG NO. 79887.010.
- SELF CLOSING GATE/S WITH ACCESS COVERS OPENING TOWARDS AND BENEATH THEM, SHALL HAVE TOEBOARDS WITH A 'HINGED AT TOP' CONNECTION, REFER TYPE 3 TOEBOARD CONNECTION DETAIL ON DRG NO. 79887.010.
- SELF CLOSING GATE/S SHALL SWING OUTWARDS AND THE NUMBER OF GATE/S REQUIRED SHALL BE AS FOLLOWS:
 - A SINGLE GATE FOR SPANS BETWEEN STANCHIONS OF UP TO A MAXIMUM OF 1500mm.
 - DOUBLE GATES FOR SPANS BETWEEN STANCHIONS GREATER THAN 1500mm AND UP TO A MAXIMUM OF 2400mm.
- WHERE GATES SPAN THE ENTIRE LENGTH OF A HANDRAIL'S SIDE AND WHERE DEEMED NECESSARY, ADDITIONAL STANCHIONS AND RAILS SHALL BE PROVIDED EITHER SIDE OF THE GATE/S TO INCREASE HANDRAIL STABILITY.
- FOR COVERS WITH A TOTAL LIFTING WEIGHT LESS THAN 16kg, A SINGLE KEYWAY BOX SHALL BE PROVIDED CENTRALLY (REFER THREE AND FOUR COVER PLANS), UNLESS REQUESTED OTHERWISE BY THE PRINCIPAL. FOR COVERS WITH A TOTAL LIFTING WEIGHT GREATER THAN 16kg, DUAL KEYWAY BOXES AND AN ETCHED WARNING PLATE SHALL BE PROVIDED (REFER SINGLE AND DUAL COVER PLANS).
- WHERE POSSIBLE, THE PADLOCK TONGUE SHOULD NOT BE LOCATED ON THE PUMP GUIDE RAIL SIDE.
- BULLET HINGES SHALL BE ORIENTATED IN OPPOSITE DIRECTIONS TO RESTRICT THE REMOVAL OF THE COVER.
- WET WELL COVERS SHALL BE COMPLETELY SEALED WITH 'TESA' PERMAFOAM TAPE OR APPROVED EQUIVALENT, REFER TYPICAL SEALING TAPE CORNER DETAIL AND NOTE 3 ON DRG NO. 79887.011.
- HANDRAIL SHALL HAVE A 130mm OFFSET ON THE PUMP GUIDE RAIL SIDE ONLY.



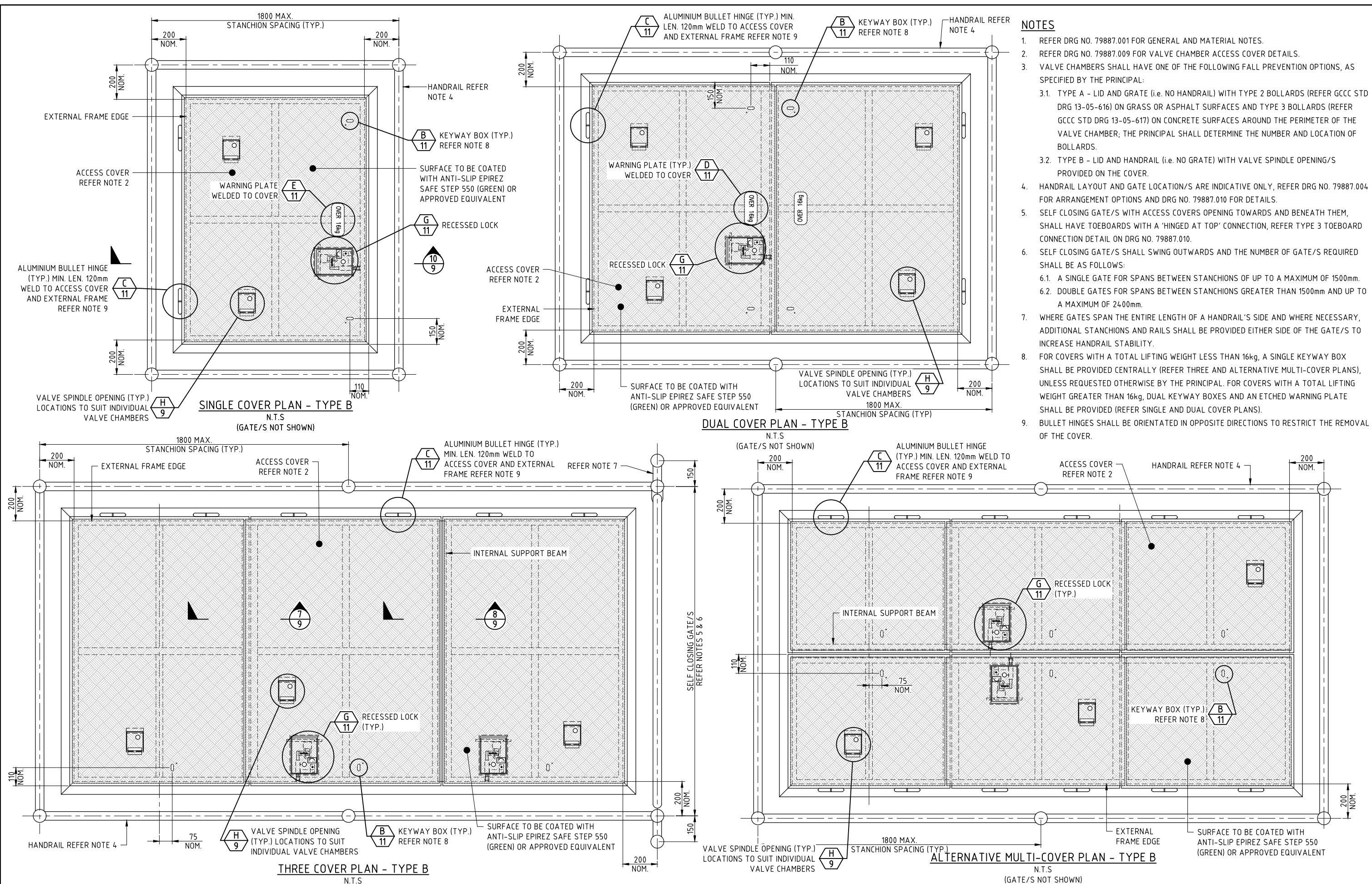
<div><div>NEWELL</div><div>ABN 68 121 167 128 Level 4, HQ@Robina Building 1 Laver Drive, Robina PO Box 4920, Robina Town Centre Q 4230 T: (07) 5575 7191 W: newelleng.com.au</div></div>	Design Project Officer -	Design Checked ORIGINAL SIGNED Signed: BY L. FRISKE RPEQ No.: 15348																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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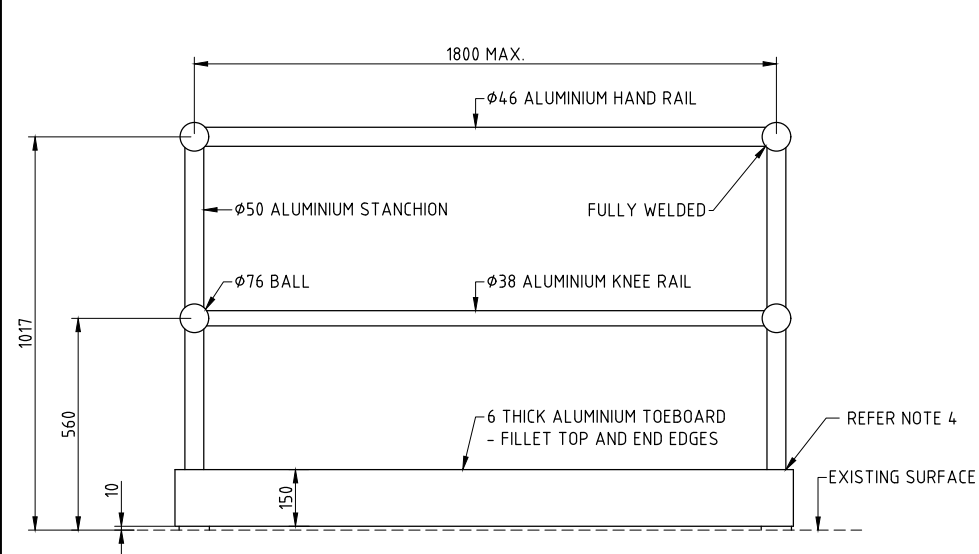
NOTES

1. REFER DRG NO. 79887.001 FOR GENERAL AND MATERIAL NOTES.
2. HANDRAILS AND COVERS SHALL BE DESIGNED TO ALLOW COVERS TO OPEN AT LEAST 6° PAST THE VERTICAL.
3. COVERS OPENING TOWARDS A HANDRAIL SHALL BE SECURED TO THE HANDRAIL BY A STAINLESS STEEL LANYARD WITH SWIVEL EYE CARABINER; THE LANYARD SHALL BE ATTACHED TO THE COVER'S CENTRAL STRENGTHENING RIB.
4. WET WELL COVERS SHALL BE COMPLETELY SEALED BY FULLY SEAL WELDS AS SPECIFIED OR ALTERNATIVELY INTERMITTENT WELDS WITH SIKAFLEX TANK N OR APPROVED EQUIVALENT SEALANT.
5. SIKAFLEX TANK N SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, WITH ALUMINIUM SURFACES TREATED WITH A VERY FINE ABRASIVE PAD AND SIKAKTIVATOR-205.
6. WET WELL COVERS SHALL BE DESIGNED TO BE COMPLETELY SEALED TO PROVIDE A FULL ODOUR TIGHT SEAL.

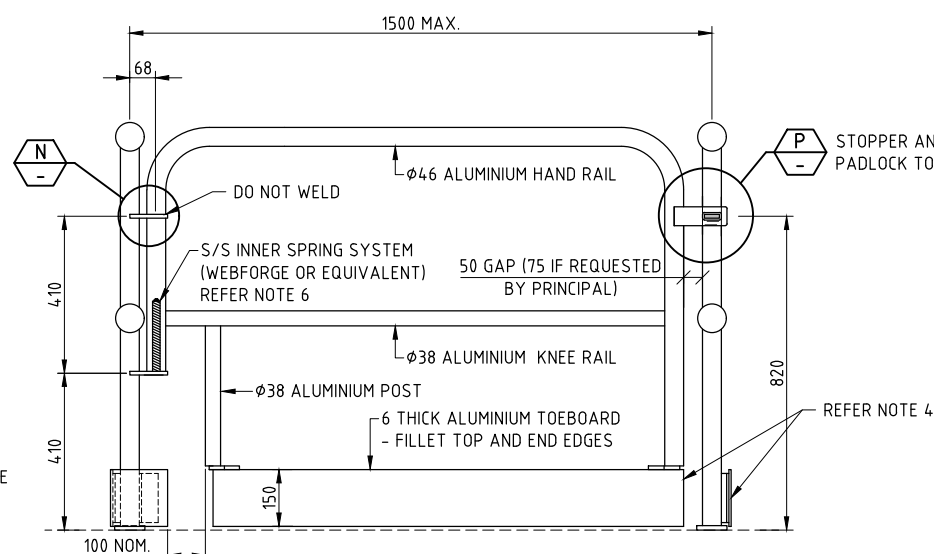
<div><div>NEWELL</div><div>ABN 68 121 167 128 Level 4, HQ@Robina Building 1 Laver Drive, Robina PO Box 4920, Robina Town Centre Q 4230 T: (07) 5575 7191 W: newelleng.com.au</div></div>	Design Project Officer —		Design Checked – Statutory Certifier ORIGINAL SIGNED Signed: BY L. FRISKE RPEQ No.: 19348						<div>Bar Scales</div> <div>0 20 40 60 80mm</div> <div>A1 UNREDUCED</div> <div>Do not scale, use figured dimensions only</div>	<div>CITY OF</div> <div>GOLD COAST.</div> <div>PO Box 5042, Gold Coast MC 9729</div>	SEWERAGE PUMPING STATION STANDARD DRAWINGS		Project Number 71155		
	Designed/Drawn D. YANG		Drawing Checked ORIGINAL SIGNED Signed: BY D. NEWELL										FALL PREVENTION COVERS AND HANDRAILS AT SEWERAGE PUMPING STATIONS		Sheet of 6 12
	GCCC Project Records File Number —		GCCC Project Identifier\—\CAD File Name —		3	PERMAFOAM AND COUNTERSUNK ANCHORS	L. FRISKE				28/4/16	WET-WELL ACCESS COVERS DETAILS			GCCC Drawing Number 79887.006
					2	AMENDED SECTION 1 AND KEYWAY BOX LOCATIONS	L. FRISKE	L.F			16/7/15				
					1	MINIMUM SIZES AND ALTERNATIVE SEAL ADDED	L. FRISKE	L.F			1/6/15				
Authorised for release Name: L. FRISKE Signed: BY L. FRISKE Date: 31/03/15		ORIGINAL SIGNED		GCCC Contract Records File Number WSS382/599/02/05		Issue		Description		Name Initial Date					
Design not to be amended without authorisation by Statutory Certifier															



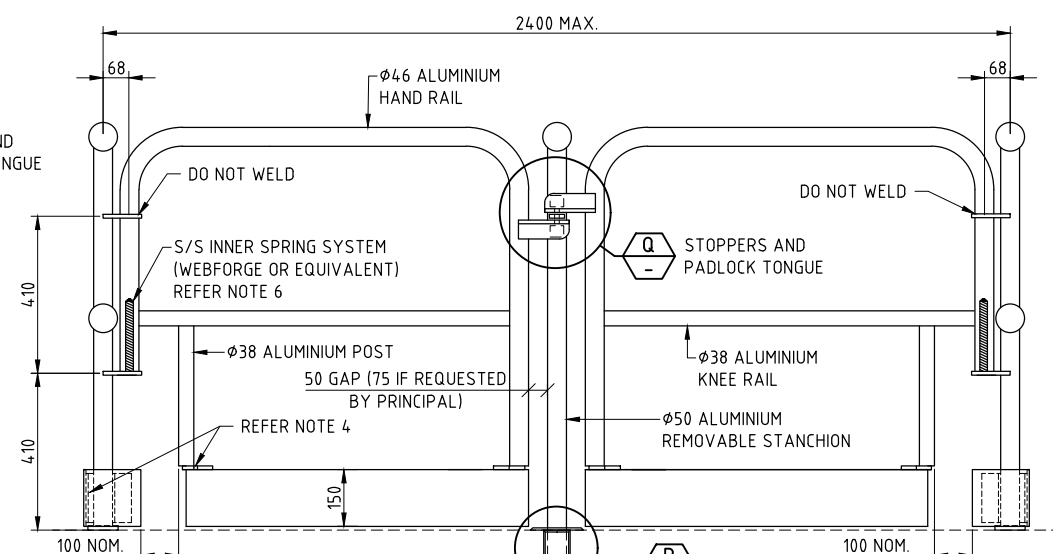
- NOTES**
- REFER DRG NO. 79887.001 FOR GENERAL AND MATERIAL NOTES.
 - REFER DRG NO. 79887.009 FOR VALVE CHAMBER ACCESS COVER DETAILS.
 - VALVE CHAMBERS SHALL HAVE ONE OF THE FOLLOWING FALL PREVENTION OPTIONS, AS SPECIFIED BY THE PRINCIPAL:
 - TYPE A - LID AND GRATE (i.e. NO HANDRAIL) WITH TYPE 2 BOLLARDS (REFER GCCC STD DRG 13-05-616) ON GRASS OR ASPHALT SURFACES AND TYPE 3 BOLLARDS (REFER GCCC STD DRG 13-05-617) ON CONCRETE SURFACES AROUND THE PERIMETER OF THE VALVE CHAMBER; THE PRINCIPAL SHALL DETERMINE THE NUMBER AND LOCATION OF BOLLARDS.
 - TYPE B - LID AND HANDRAIL (i.e. NO GRATE) WITH VALVE SPINDLE OPENING/S PROVIDED ON THE COVER.
 - HANDRAIL LAYOUT AND GATE LOCATION/S ARE INDICATIVE ONLY, REFER DRG NO. 79887.004 FOR ARRANGEMENT OPTIONS AND DRG NO. 79887.010 FOR DETAILS.
 - SELF CLOSING GATE/S WITH ACCESS COVERS OPENING TOWARDS AND BENEATH THEM, SHALL HAVE TOEBOARDS WITH A 'HINGED AT TOP' CONNECTION, REFER TYPE 3 TOEBOARD CONNECTION DETAIL ON DRG NO. 79887.010.
 - SELF CLOSING GATE/S SHALL SWING OUTWARDS AND THE NUMBER OF GATE/S REQUIRED SHALL BE AS FOLLOWS:
 - A SINGLE GATE FOR SPANS BETWEEN STANCHIONS OF UP TO A MAXIMUM OF 1500mm.
 - DOUBLE GATES FOR SPANS BETWEEN STANCHIONS GREATER THAN 1500mm AND UP TO A MAXIMUM OF 2400mm.
 - WHERE GATES SPAN THE ENTIRE LENGTH OF A HANDRAIL'S SIDE AND WHERE NECESSARY, ADDITIONAL STANCHIONS AND RAILS SHALL BE PROVIDED EITHER SIDE OF THE GATE/S TO INCREASE HANDRAIL STABILITY.
 - FOR COVERS WITH A TOTAL LIFTING WEIGHT LESS THAN 16kg, A SINGLE KEYWAY BOX SHALL BE PROVIDED CENTRALLY (REFER THREE AND ALTERNATIVE MULTI-COVER PLANS), UNLESS REQUESTED OTHERWISE BY THE PRINCIPAL. FOR COVERS WITH A TOTAL LIFTING WEIGHT GREATER THAN 16kg, DUAL KEYWAY BOXES AND AN ETCHED WARNING PLATE SHALL BE PROVIDED (REFER SINGLE AND DUAL COVER PLANS).
 - BULLET HINGES SHALL BE ORIENTATED IN OPPOSITE DIRECTIONS TO RESTRICT THE REMOVAL OF THE COVER.



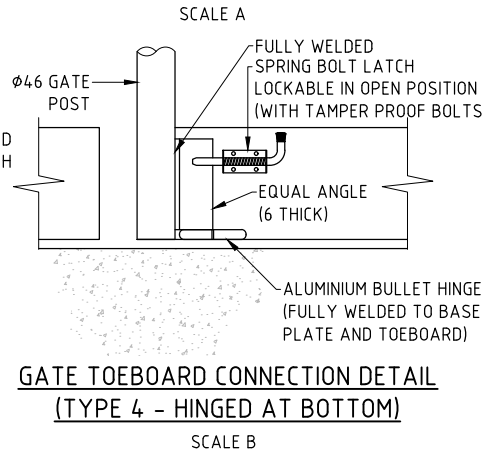
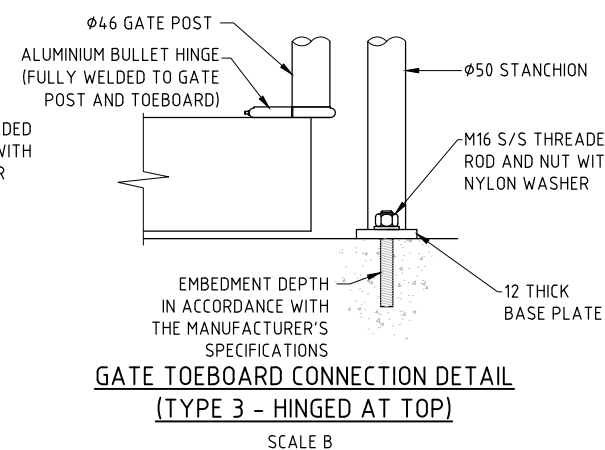
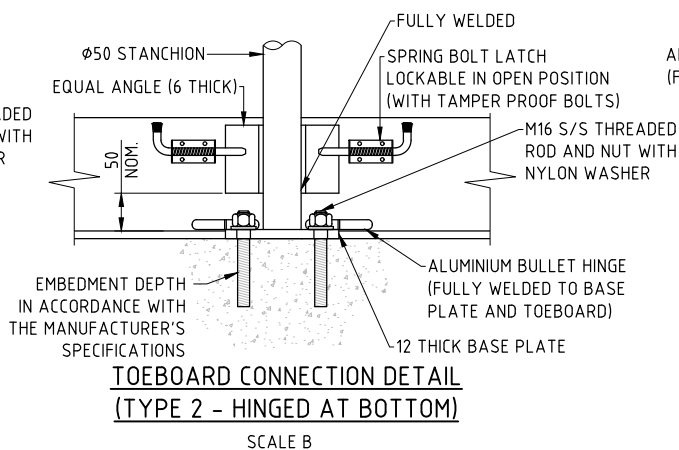
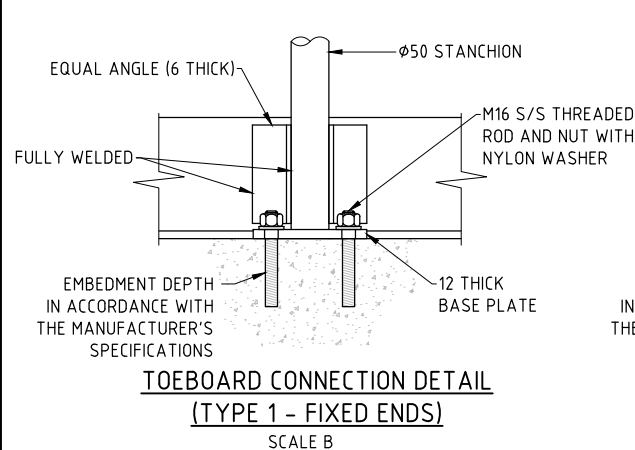
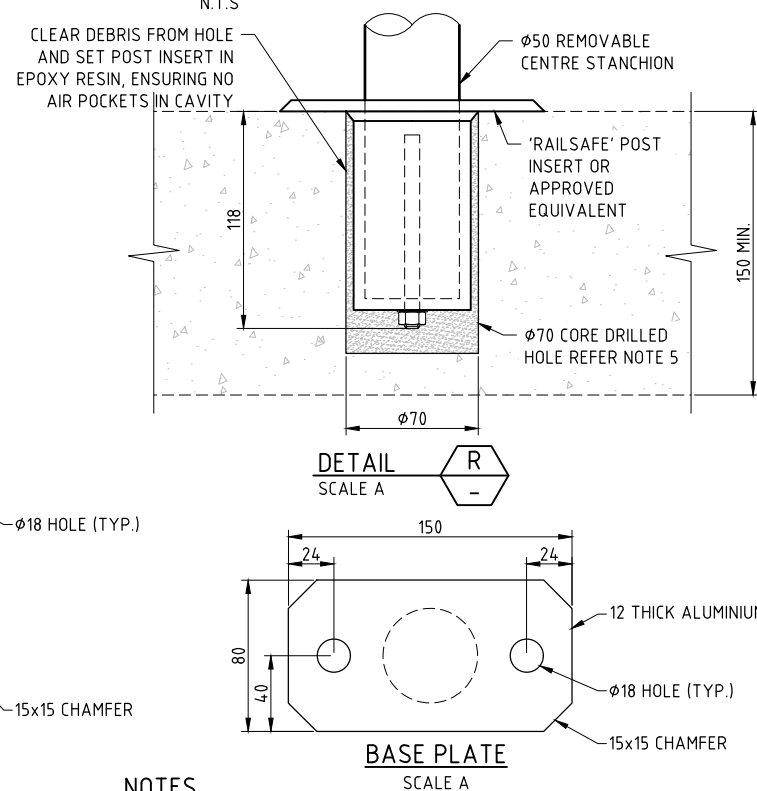
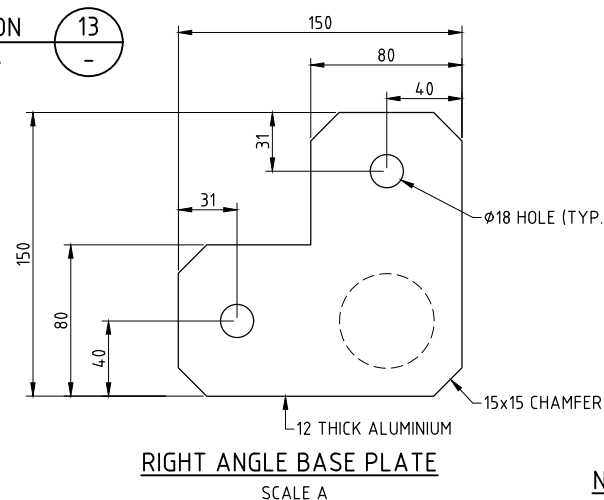
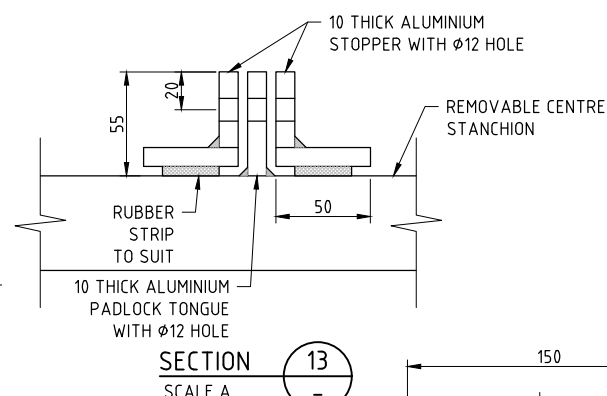
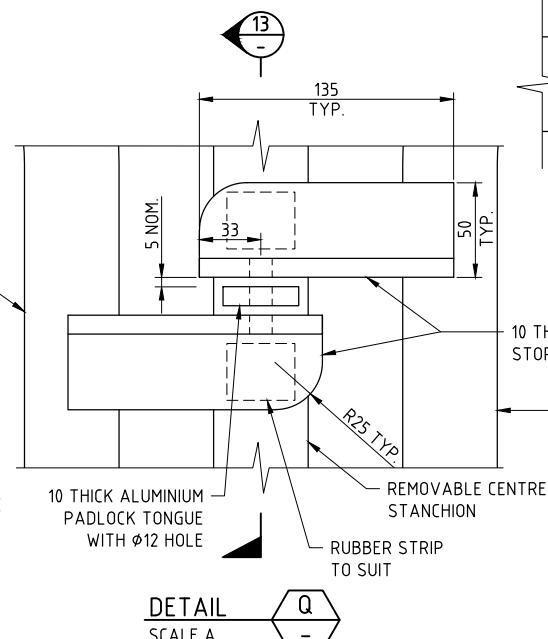
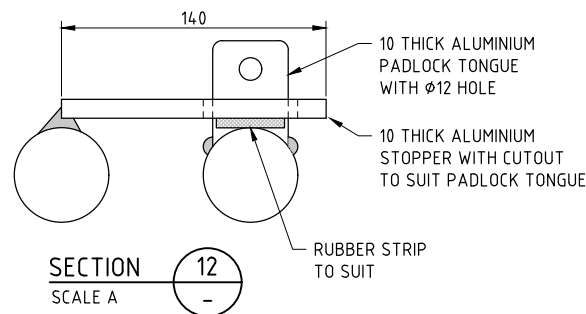
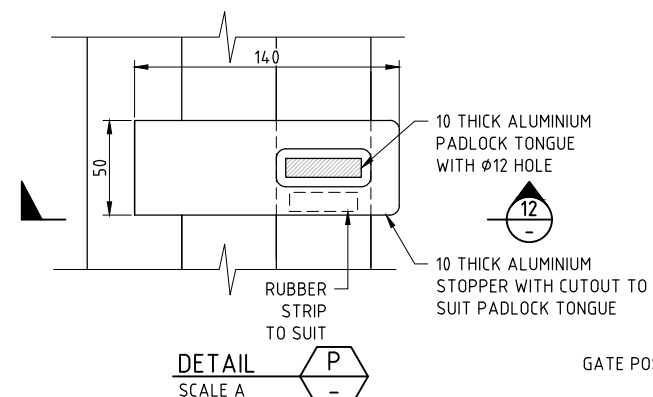
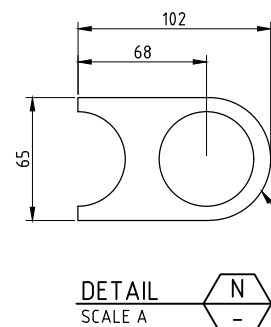
HANDRAILS - ELEVATION
N.T.S.



SELF CLOSING GATE (SINGLE GATE) - ELEVATION
N.T.S.



SELF CLOSING GATE (DOUBLE GATE) - ELEVATION
N.T.S.



NOTES

- REFER DRG NO. 79887.001 FOR GENERAL AND MATERIAL NOTES.
- REFER DRG NO. 79887.004 FOR HANDRAIL ARRANGEMENTS.
- HANDRAILS SHALL BE WEBFORGE OR APPROVED EQUIVALENT.
- TOEBOARDS SHALL BE PROVIDED ON ALL SIDES AND CONNECTED AS FOLLOWS TO EACH STANCHION:
 - TYPE 1 - TYPICAL CONNECTION DETAIL.
 - TYPE 2 - CONNECTION DETAIL FOR HANDRAILS ON THE PUMP GUIDE RAIL SIDE.
 - TYPE 3 - CONNECTION DETAIL FOR GATES WITH COVERS OPENING TOWARDS AND FALLING BENEATH THEM.
 - TYPE 4 - CONNECTION DETAIL FOR GATES ON THE PUMP GUIDE RAIL SIDE.
- SITE SURVEY EACH DRILLING LOCATION WITH X-RAY DETECTION EQUIPMENT. PLACE POST INSERT TO CLEAR EXISTING REINFORCEMENT IN SLAB.
- THE SELF CLOSING GATE BOTTOM AND TOP HINGES SHALL HAVE A NYLON SLEEVE OR APPROVED EQUIVALENT.

NEWELL

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1 Laver Drive, Robina
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W: newelleng.com.au

Authorised for release
Name: L. FRISKE
Signed: BY L. FRISKE
Date: 31/03/15

Design Project Officer
D. YANG
GCCC Project Records File Number
GCCC Contract Records File Number
WSS382/599/02/05

Design Checked - Statutory Certifier
ORIGINAL SIGNED
Signed: BY L. FRISKE
Drawing Checked
ORIGINAL SIGNED
Signed: BY D. NEWELL

Issue	Description	Name	Initial	Date
5	AMENDED SELF CLOSING GATE ELEVATIONS	L. FRISKE		28/4/16
4	AMENDED TOEBOARD CONNECTION (TAMPER PROOF)	L. FRISKE	L.F.	9/2/16
3	AMENDED NOTE 6	L. FRISKE	L.F.	4/8/15
2	AMENDED HANDRAIL AND TOE BOARD DETAILS	L. FRISKE	L.F.	16/7/15
1	TYPE 4 CONNECTION ADDED AND DETAILS AMENDED	L. FRISKE	L.F.	1/6/15
0	ORIGINAL ISSUE	L. FRISKE	L.F.	31/3/15

Design not to be amended without authorisation by Statutory Certifier

Bar Scales
SCALE A 0 20 40 60 80mm
SCALE B 0 50 100 150 200mm
A1 UNREDUCED
Do not scale, use figured dimensions only

CITY OF
GOLDCOAST.

PO Box 5042, Gold Coast MC 9729

**SEWERAGE PUMPING STATION
STANDARD DRAWINGS**

**FALL PREVENTION COVERS AND HANDRAILS
AT SEWERAGE PUMPING STATIONS
HANDRAILS AND TOEBOARDS
DETAILS**

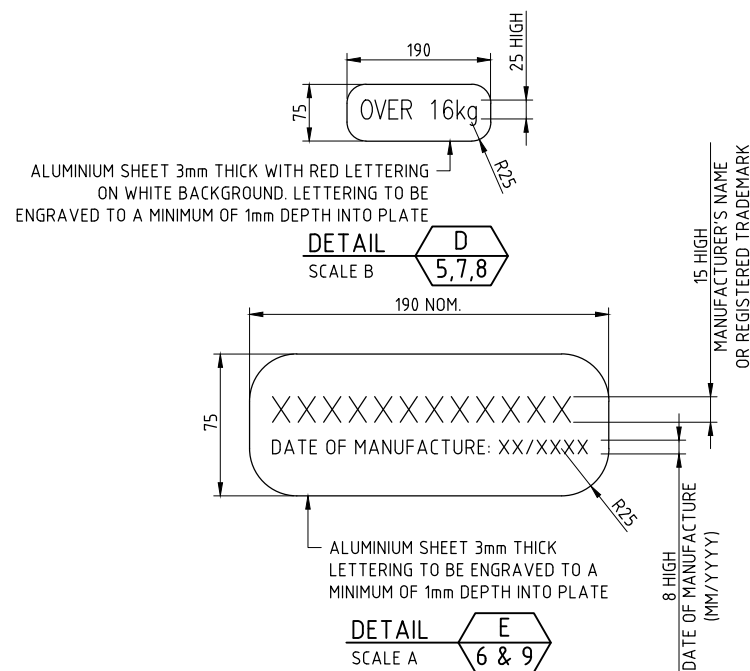
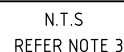
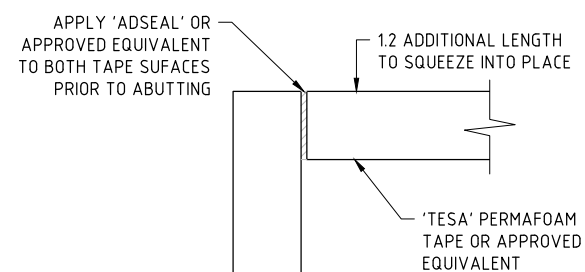
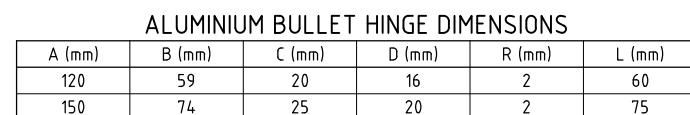
Project Number
71155

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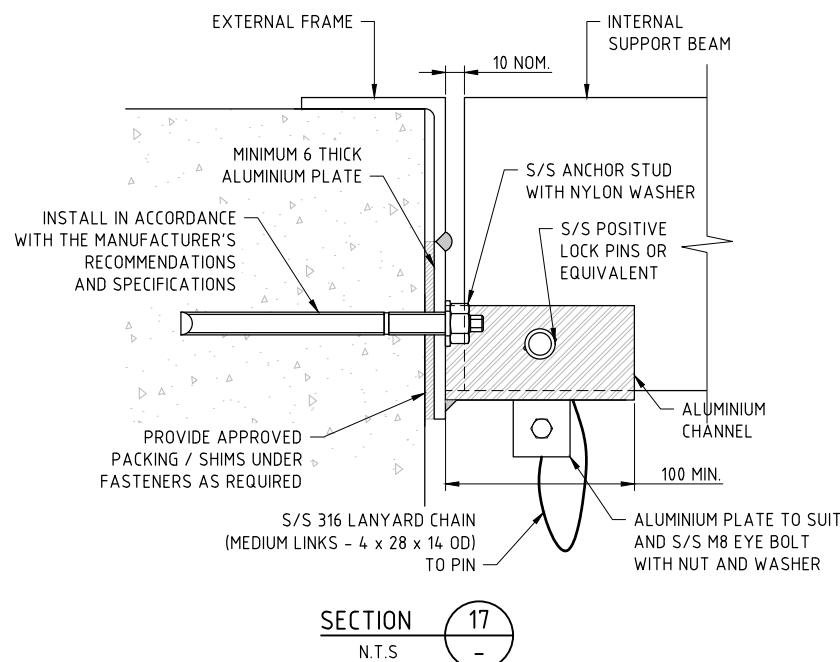
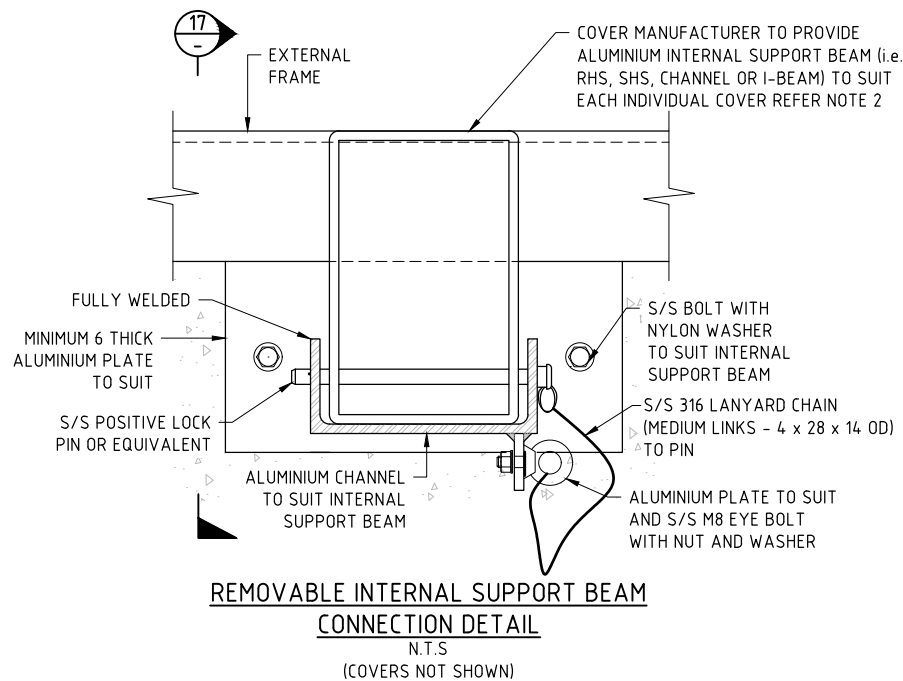
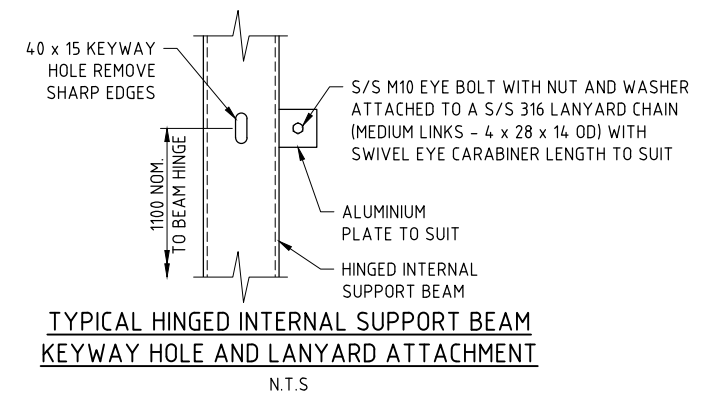
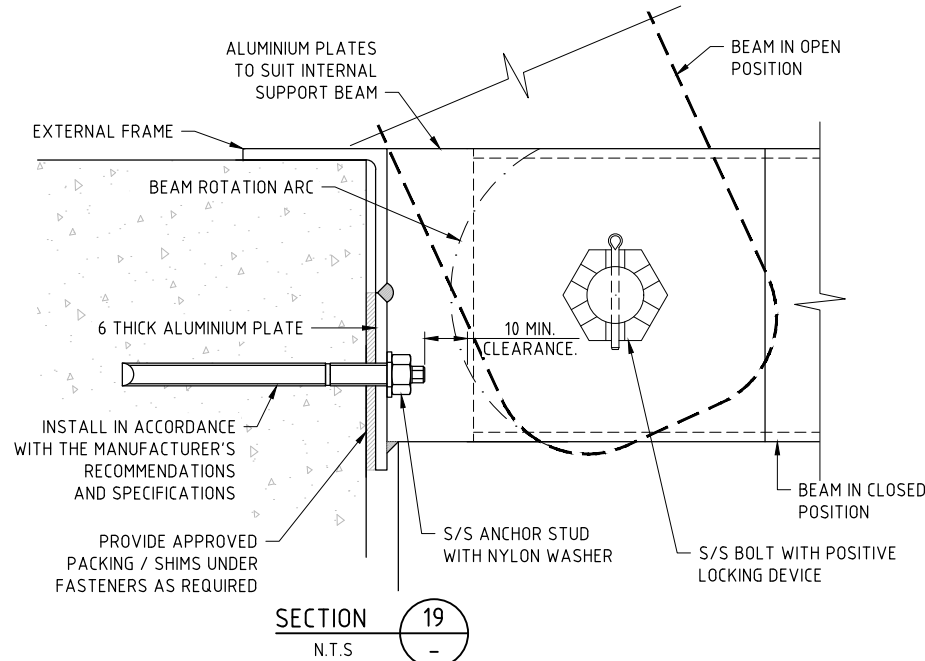
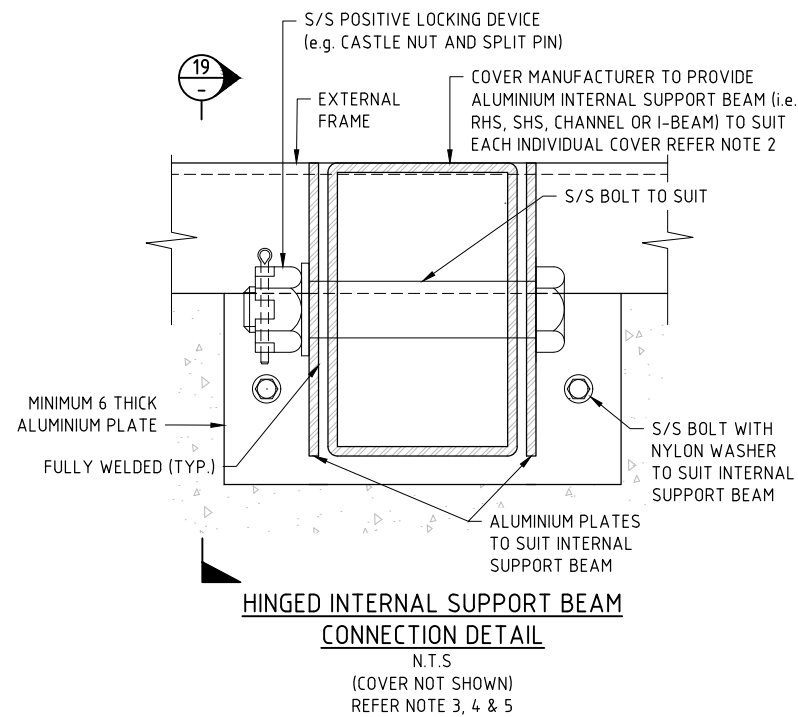
GCCC Drawing Number

79887.010

Issue
5



1. REFER DRG NO. 79887.001 FOR GENERAL AND MATERIAL NOTES.
2. BULLET HINGE DIMENSIONS ARE INDICATIVE ONLY. COVER MANUFACTURER TO DETERMINE THE HINGE SIZE TO SUIT.
3. WIPE SURFACE WITH A CLEAN, LINT-FREE, DRY CLOTH TO ENSURE ABSENCE OF GREASE, DIRT AND MOISTURE PRIOR TO APPLICATION OF TAPE.



NOTES

- REFER DRG NO. 79887.001 FOR GENERAL AND MATERIAL NOTES.
- WHERE POSSIBLE REMOVABLE INTERNAL SUPPORT BEAMS SHALL BE LOCATED TO AVOID OBSTRUCTION OF NORMAL MAINTENANCE PROCEDURES.
- HINGED INTERNAL SUPPORT BEAMS SHALL HAVE A MAXIMUM LIFTING WEIGHT OF 16kg.
- HINGED INTERNAL SUPPORT BEAMS SHALL HAVE A SUITABLY LOCATED KEYWAY HOLE (40 x 15) OPENING, REFER TYPICAL DETAIL THIS SHEET
- HINGED INTERNAL SUPPORT BEAM SHALL HAVE A S/S LANYARD AND ALUMINIUM PLATE LOCATED TO SUIT SECUREMENT TO THE HANDRAIL WHEN THE BEAM IS IN AN OPEN POSITION, REFER TYPICAL DETAIL THIS SHEET.

NEWELL

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PO Box 4920, Robina Town Centre Q 4230
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Authorised for release
Name: L. FRISKE Signed: Date: 16/07/15

Design Project Officer
—
Designed/Drawn
D. YANG
GCCC Project Records File Number
—
GCCC Project Identifier\—CAD File Name
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Design Checked — Statutory Certifier
ORIGINAL SIGNED
Signed: BY L. FRISKE RPEQ No.: 19348
Drawing Checked
ORIGINAL SIGNED
Signed: BY D. NEWELL

1	AMENDED HINGED INTERNAL SUPPORT BEAM	L. FRISKE	28/4/16
0	ORIGINAL ISSUE	L. FRISKE	16/7/15
Issue	Description	Name	Initial Date
Design not to be amended without authorisation by Statutory Certifier			

Bar Scales

A1 UNREDUCED
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**SEWERAGE PUMPING STATION
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**FALL PREVENTION COVERS AND HANDRAILS
AT SEWERAGE PUMPING STATIONS**
MISCELLANEOUS DETAILS - SHEET 2 OF 2

Project Number
71155

Sheet of
12 12

GCCC Drawing Number

79887.012

Issue
1

ATTACHMENT 1.2

STANDARD WPS DRAWINGS

GENERAL NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THIS SET OF STANDARD ALUMINIUM ACCESS COVER DRAWINGS ARE TO BE USED AS A GUIDE ONLY FOR THE MANUFACTURE AND FABRICATION OF ALUMINIUM COVERS AND FRAMES OVER WATER PUMP STATIONS WHERE APPLICABLE. THESE DRAWINGS SHALL COMMUNICATE THE INTENT AND FUNCTION, AND ARE NOT FABRICATION OR CONSTRUCTION DRAWINGS. ALL MEASUREMENTS ARE INDICATIVE ONLY. THE MANUFACTURER IS RESPONSIBLE FOR THE FULL STRUCTURAL DESIGN OF ALL COMPONENTS WITH FULL RPEQ CERTIFICATION.
3. EACH COVER AND FRAME SHALL BE DESIGNED TO SUIT INDIVIDUAL SITE CONDITIONS AND STRUCTURAL COMPONENTS. COVER ARRANGEMENTS MAY VARY TO SUIT THE DESIGN OF THE MANUFACTURER / FABRICATOR, HOWEVER THE GENERAL PRINCIPLES AND FUNCTION SHALL BE AS DETAILED IN THESE DRAWINGS.
4. THE STRUCTURAL COMPONENTS ON THESE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE STRUCTURAL DESIGN ACTIONS OF THE AS/NZS1170 SET.
5. ACCESS COVERS IN NON-TRAFFICABLE LOCATIONS AND SUBJECT TO PEDESTRIAN LOADS ONLY, SHALL BE DESIGNED FOR CLASS A LOADINGS AS SPECIFIED IN AS3996 SECTION 3.
6. SAFETY GRATES SHALL BE DESIGNED FOR PLATFORM LOADINGS IN ACCORDANCE WITH AS1657.
7. COVERS MUST BE DESIGNED SUCH THAT THEIR TOTAL LIFTING WEIGHT (W_l) DOES NOT EXCEED 16kg, UNLESS APPROVED OTHERWISE BY THE PRINCIPAL.
8. FOR A HINGED GRATE THE MAXIMUM LIFTING WEIGHT AT EACH LIFTING POINT SHALL NOT BE GREATER THAN 16kg.
9. COVERS WITH A TOTAL LIFTING WEIGHT (W_l) GREATER THAN 16kg, SHALL BE DESIGNED FOR A TWO PERSON LIFT WITH DUAL KEYWAY BOXES AND THE TOP OF THE COVER SHALL BE MARKED WITH AN ETCHED PLATE STATING 'OVER 16kg'.
10. FOR A HINGED COVER LOCATED ABOVE A GRATE THE MAXIMUM LIFTING WEIGHT AT EACH LIFTING POINT SHALL NOT BE GREATER THAN 16kg.
11. FOR A HINGED STAND ALONE COVER (i.e. WITHOUT GRATE BELOW) THE MAXIMUM LIFTING WEIGHT AT EACH LIFTING POINT SHALL NOT BE GREATER THAN 20kg.
12. MINIMUM THICKNESS OF ALUMINIUM CHEQUER PLATE MUST BE 4mm.
13. THE TOP OF EACH STAND ALONE COVER (i.e. WITHOUT GRATE BELOW) SHALL BE MARKED WITH AN ETCHED PLATE STATING 'NO GRATE UNDERNEATH'.
14. THE UNDERSIDE OF THE COVERS SHALL BE MARKED WITH AN ETCHED PLATE, STATING THE MANUFACTURER'S NAME OR REGISTERED TRADEMARK, MONTH AND YEAR OF MANUFACTURE, AND LOAD CLASS.
15. THE ACCESS COVER OPENING DIMENSIONS AND BOLLARD ARRANGEMENT (IF REQUIRED) SHALL BE SPECIFIED IN THE PROJECT DRAWING.
16. ACCESS COVERS LOCATED WITHIN PEDESTRIAN WALKWAYS (e.g. FOOTPATHS) SHALL BE DESIGNED WITH A 2mm MAXIMUM HEIGHT DIFFERENCE BETWEEN TOP EDGE OF COVERS (EXCLUDING ANY PATTERN) AND TOP OF FRAME IN ACCORDANCE WITH AS3996 SECTION 3.3. THIS MAXIMUM HEIGHT DIFFERENCE IS NOT SHOWN IN THESE STANDARD DRAWINGS.

MATERIAL NOTES

1. ALL ALUMINIUM COMPONENTS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE AS/NZS 1664 SET.
2. ALL ALUMINIUM SHALL BE MARINE GRADE TO AS1734.
3. ALUMINIUM SHALL ONLY BE ANODIZED IF SPECIFIED BY THE PRINCIPAL.
4. ALL STAINLESS STEEL USED SHALL BE GRADE 316.
5. ALL STAINLESS STEEL NUTS AND BOLTS TO BE ASSEMBLED WITH AN ANTI-GALLING COMPOUND 'DURALAC' OR APPROVED EQUIVALENT.
6. ALUMINIUM AND STAINLESS STEEL SHALL NOT BE ALLOWED TO COME IN CONTACT WITH EACH OTHER UNLESS ADEQUATELY INSULATED WITH APPROVED SEALANTS, GASKETS, WASHERS AND SLEEVES.
7. ALL ACCESS COVERS SHALL HAVE THEIR TOP SURFACES COVERED WITH A GREEN COLOURED 'EPIREZ SAFE STEP 550' EXPOXY ANTI-SLIP COATING OR APPROVED EQUIVALENT AFTER THE APPLICATION OF THE EPIREZ EPOXY PRIMER/SEALER (123).
8. WHERE ALUMINIUM IS IN CONTACT WITH CONCRETE, THE ALUMINIUM SHALL BE PAINTED WITH A MINIMUM TWO COATS OF BITUMINOUS PAINT OR APPROVED EQUIVALENT.
9. ALL ALUMINIUM WELDING TO COMPLY WITH AS/NZS1665 AND ISO18273.

DRAWING INDEX

DRAWING No.	DRAWING TITLE
79887.500	DRAWING INDEX, NOTES AND LEGEND
79887.501	GENERAL ARRANGEMENT AND OPENING/CLOSING SEQUENCE
79887.502	CROSS SECTIONS & DETAILS – SHEET 1 OF 2
79887.503	CROSS SECTIONS & DETAILS – SHEET 2 OF 2

LIFTING WEIGHT CALCULATION

THE TOTAL LIFTING WEIGHT FOR A HINGED COVER SHALL BE DETERMINED AS FOLLOWS:

$$W_l := \frac{\frac{W_c \cdot L_c}{2 \cdot D_{lp}}}{\sin\left(\tan^{-1}\left(\frac{V_l}{D_{lp} + H_l}\right)\right)}$$

WHERE

- W_l

= THE TOTAL COVER LIFTING WEIGHT (kg)
(REFER GENERAL NOTES 8, 9 & 10)
- W_c

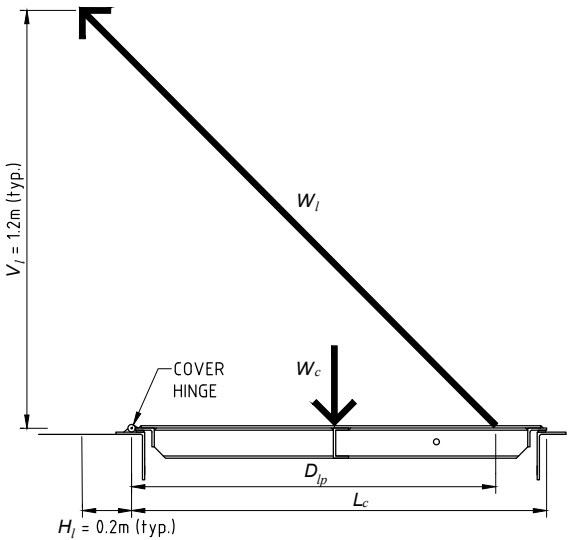
= THE TOTAL COVER WEIGHT (DEAD WEIGHT) (kg)
- L_c

= THE LENGTH OF THE COVER (m)
- D_{lp}

= THE DISTANCE TO THE LIFTING POINT (m)
- V_l

= THE LIFT VERTICAL HEIGHT, 1.2m TYPICAL
- H_l

= THE LIFT HORIZONTAL OFFSET FROM THE HINGE, 0.2m TYPICAL



LEGEND

A

3

DETAIL LETTER
SHEET WHERE SHOWN *

A

2

DETAIL LETTER
SHEET WHERE TAKEN *

1

3

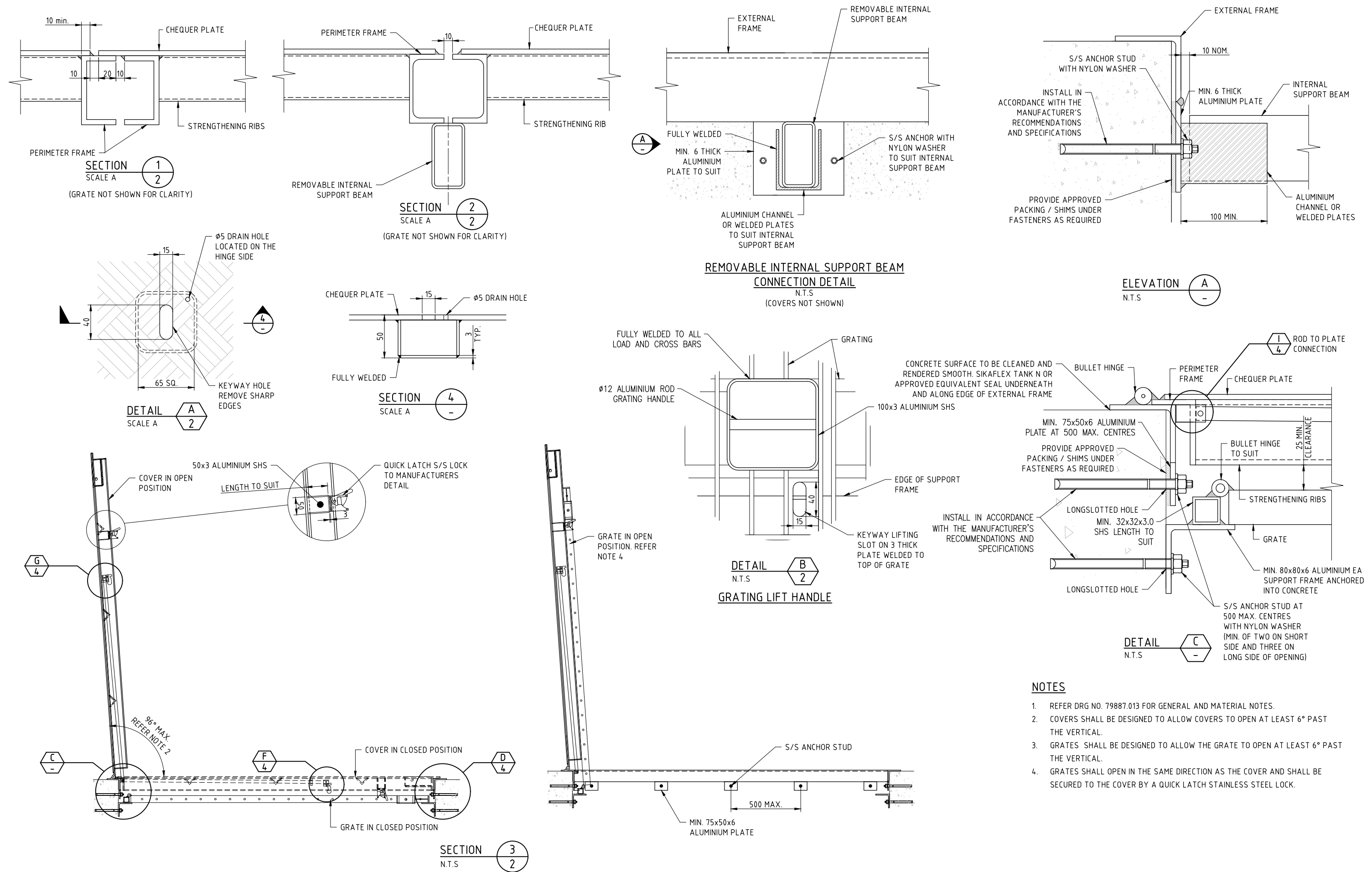
SECTION NUMBER
SHEET WHERE SHOWN *

1

2


SECTION NUMBER
SHEET WHERE TAKEN *

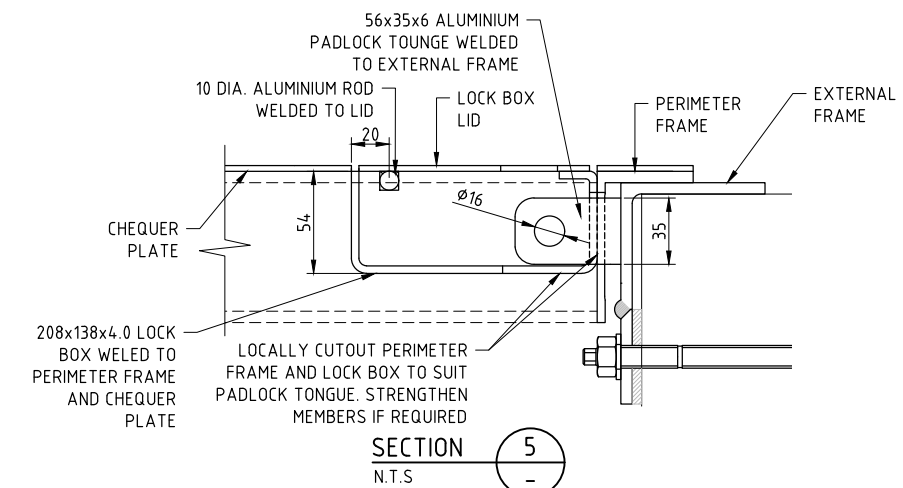
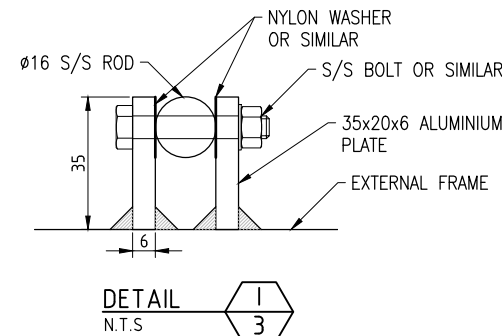
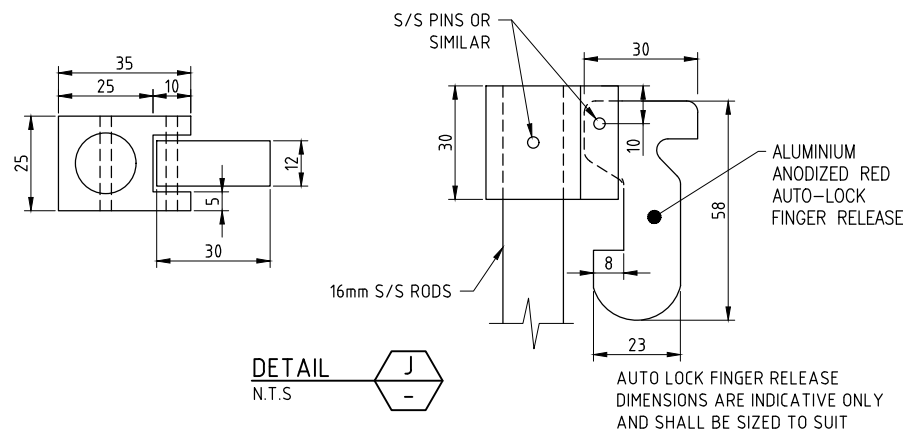
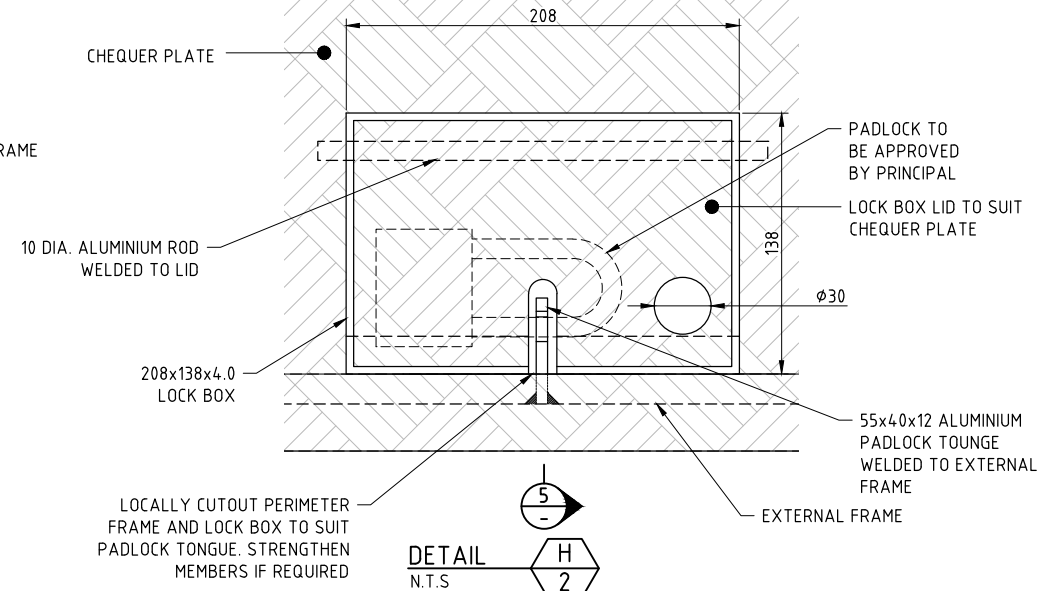
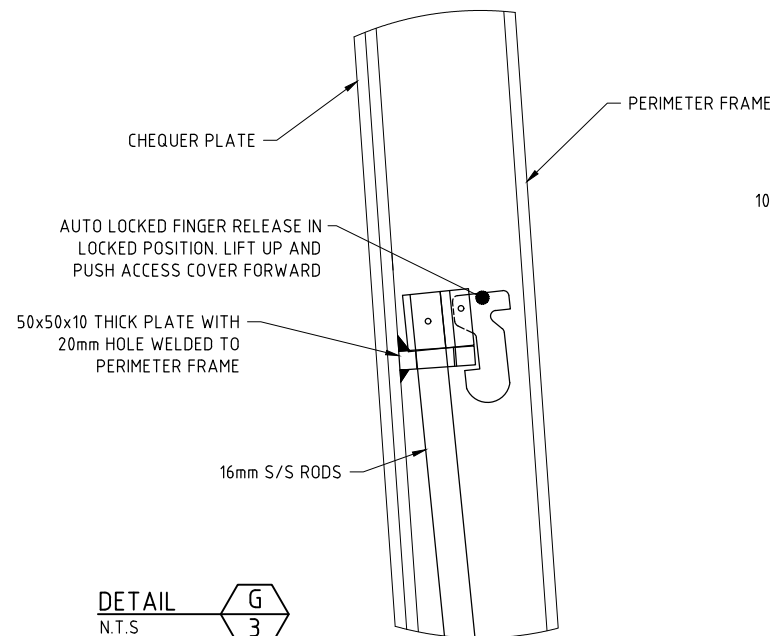
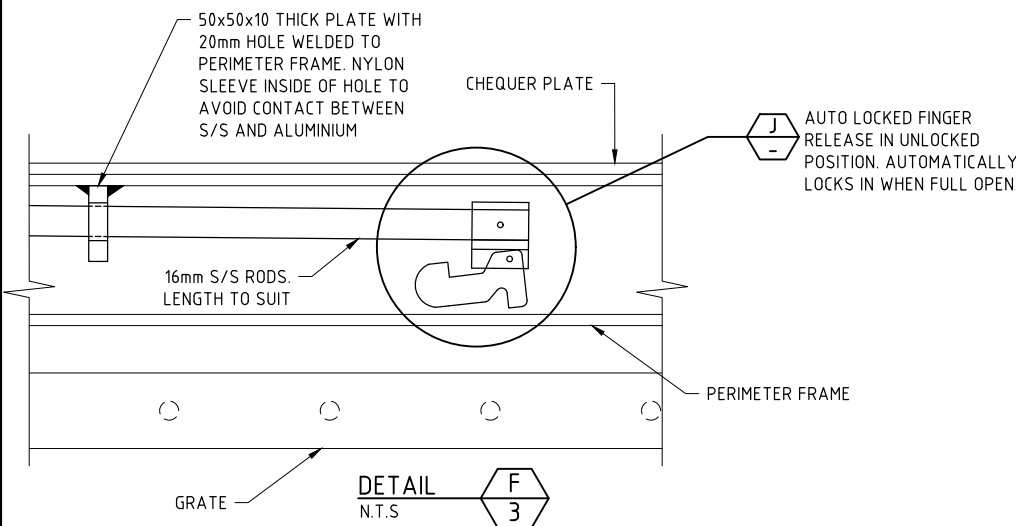
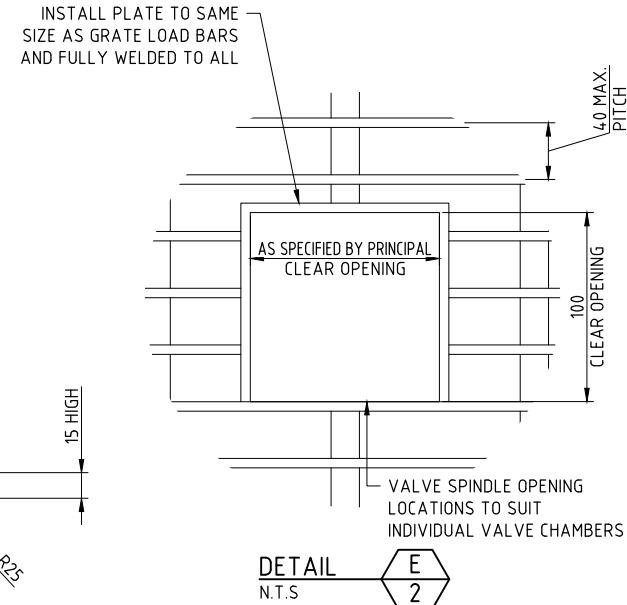
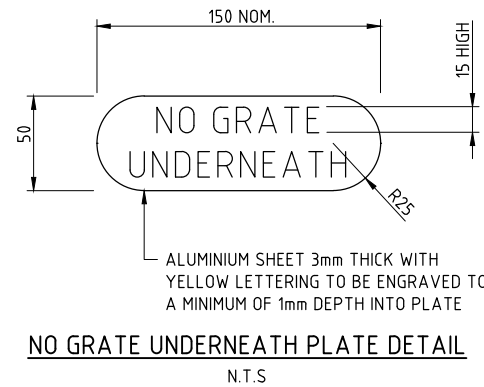
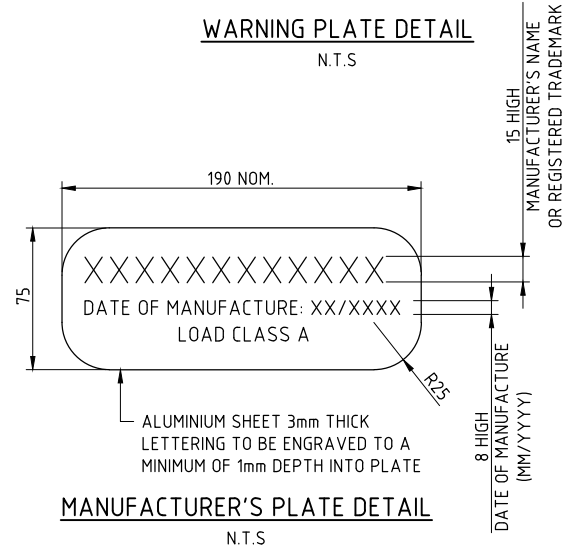
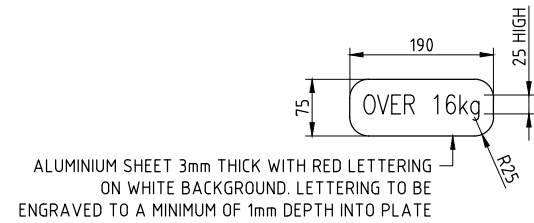
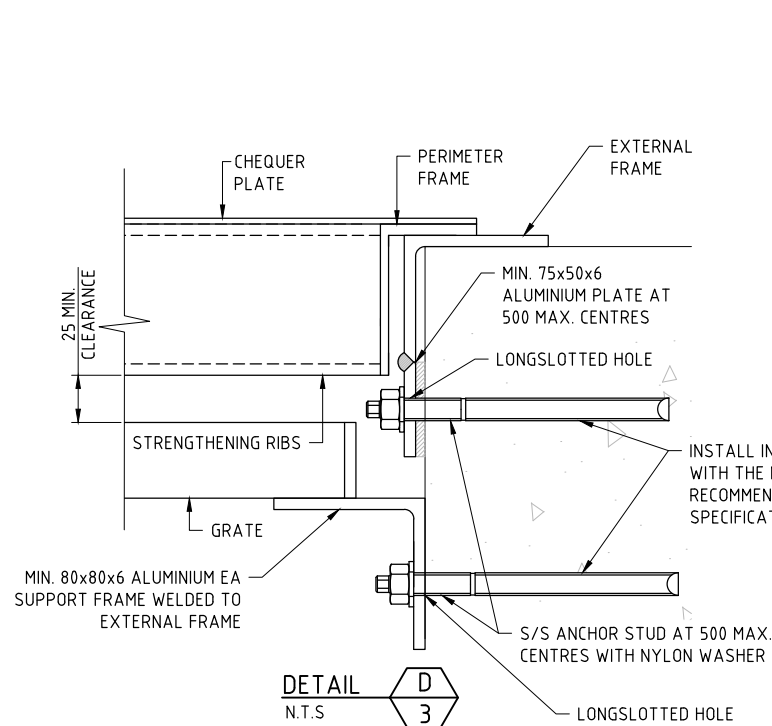
* DASH INDICATES SHOWN ON SAME SHEET



NOTES


- REFER DRG NO. 79887.013 FOR GENERAL AND MATERIAL NOTES.
- COVERS SHALL BE DESIGNED TO ALLOW COVERS TO OPEN AT LEAST 6° PAST THE VERTICAL.
- GRATES SHALL BE DESIGNED TO ALLOW THE GRATE TO OPEN AT LEAST 6° PAST THE VERTICAL.
- GRATES SHALL OPEN IN THE SAME DIRECTION AS THE COVER AND SHALL BE SECURED TO THE COVER BY A QUICK LATCH STAINLESS STEEL LOCK.

 <p>Authorised for release Name: L. FRISKE Signed: _____ Date: 15.04.16</p>	<p>Design Project Officer T.FIELD GCCC Project Records File Number GCCC Project Identifier\-\CAD File Name GCCC Contract Records File Number WSS382/599/02/05</p>	<p>Design Checked - Statutory Certifier Signed: RPEQ No.: 15348 Drawing Checked Signed: _____ 0 ORIGINAL ISSUE Issue Description Design not to be amended without authorisation by Statutory Certifier</p>	<p>L.FRISKE Name L.F. Initial 12.04.16 Date</p>	<p>Bar Scales SCALE A 0 20 40 60 80mm A1 UNREDUCED Do not scale, use figured dimensions only</p>	<p>CITY OF GOLD COAST. PO Box 5042, Gold Coast MC 9729</p>	<p>WATER PUMPING STATION STANDARD DRAWINGS FALL PREVENTION COVERS AND GRATES AT WATER PUMPING STATIONS CROSS SECTIONS AND DETAILS SHEET 1 OF 2</p>	<p>Project Number 71155 Sheet of 3 4 Issue 0 GCCC Drawing Number 79887.502</p>
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NOTES

1. REFER DRG NO. 79887.013 FOR GENERAL AND MATERIAL NOTES.

 <p>Authorised for release Name: L. FRISKE Signed: _____ Date: 15.04.16</p>	<p>Design Project Officer — Designed/Drawn T.FIELD GCCC Project Records File Number — GCCC Project Identifier\CAD File Name — GCCC Contract Records File Number WSS382/599/02/05</p>	<p>Design Checked – Statutory Certifier Signed: _____ RPEQ No.: 15348 Drawing Checked Signed: _____ 0 ORIGINAL ISSUE Issue Description Design not to be amended without authorisation by Statutory Certifier</p>	<p>L.FRISKE Name L.F. Initial 12.04.16 Date</p>	<p>Bar Scales SCALE A 0 20 40 60 80mm A1 UNREDUCED Do not scale, use figured dimensions only</p>	<p>CITY OF GOLD COAST. PO Box 5042, Gold Coast MC 9729</p>	<p>WATER PUMPING STATION STANDARD DRAWINGS FALL PREVENTION COVERS AND GRATES AT WATER PUMPING STATIONS CROSS SECTIONS AND DETAILS SHEET 2 OF 2</p>	<p>Project Number 71155 Sheet of 4 4 Issue 0 GCCC Drawing Number 79888.503</p>
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ATTACHMENT 1.3

DESIGN REPORT



Preparation of Specifications to Prevent Fall from Heights at Sewerage and Water Pumping Stations

Design Report

Prepared by Calibre Consulting
Prepared for City of Gold Coast

28 April 2016

20097-RP01-E
Original
Buildings & Structures

DOCUMENT CONTROL INFORMATION

Document Name: Design Report
Reference: 20097-RP01
Date: 19 May 2016
Prepared by: Luke Friske

REVISION HISTORY

Revision	Revision Date	Details	Authorised	
			Name / Position	Signature
A	16/02/2015	Draft issue for review	Luke Friske / RPEQ	
B	20/03/2015	Final issue for review	Luke Friske / RPEQ	
C	31/03/2015	Final issue	Luke Friske / RPEQ	
D	28/04/2015	Redacted issue	Luke Friske / RPEQ	
E	28/04/2016	Inclusion of WPS	Luke Friske / RPEQ	
F	19/05/2016	Redacted issue	Luke Friske / RPEQ	

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3.1	Design Philosophy	7
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FIGURES

Figure 1-2-1 – Sewerage Pumping Station OX38
Figure 2-1 – Typical Access Cover for SPS wet-well
Figure 2-3 – Sewerage Pumping Station GN1; Typical Grate
Figure 2-4 – Water Pumping Station; Typical Grate

APPENDICES

Appendix A	(not included)
Appendix B	(not included)
Appendix C	Safety Alert and Incident Reports
Appendix D	(not included)
Appendix E	(not included)
Appendix F	(not included)
Appendix G	(not included)
Appendix H	(not included)
Appendix I	(not included)
Appendix J	Safety in Design Risk Register
Appendix K	(not included)
Appendix L	(not included)
Appendix M	(not included)
Appendix N	(not included)
Appendix O	(not included)
Appendix P	(not included)

1.0 INTRODUCTION

1.1 Overview and Purpose

Calibre Consulting (formally Newell) has been engaged by the City of Gold Coast (City) to produce standard design drawings and specifications for the prevention of falls from heights at sewerage pumping stations (SPS) and water pumping stations (WPS) and an inspection plan to assist in the development of a maintenance program. These standard drawings will also be included in the SEQ Water Supply and Sewerage Design and Construction Code. Detailed requirements for this documentation can be found in the Consultancy Service Terms of Reference provided in **Appendix A**.

The purpose of this report is to document the key aspects of the design and context of decisions made through the design development of the final design drawings, which can be found in **Appendix B**.

1.2 Project Description

1.2.1 Sewerage Pumping Stations (SPS)

City has identified a requirement to improve safety measures in relation to falls from heights at its sewerage pumping station facilities. City has prepared a four year program to bring the pumping stations up to current standard and in line with the current Work Health and Safety (WHS) Regulations (2011). The aim of this program is to:

- a) Ensure that personnel are not exposed to risk from fall from heights and in-turn mitigate the risk of fall from heights for City;
- b) Provide a safe and secure working environment for staff and contractors; and
- c) Remove redundant safety devices from its facilities that do not comply with current standards or regulations.

The objectives of the four year program are to:

- a) Conduct safety assessment at each site to establish requirements for construction;
- b) Design appropriate void protection installations to prevent falls from heights;
- c) Carry-out renewal and replacement of installations of falls from heights prevention equipment to ensure that all standards and codes, in relation to WHS, are achieved including certification where deemed necessary;
- d) Remove existing safety fall from heights devices that do not comply with current standards and regulations;
- e) Establish a works program for the four years. Develop and document an inspection plan, and where required, a certification program for the new falls from height safety devices; and
- f) Provide standard drawings to supplement the SEQ Sewage Pumping Station Standard Drawings, as the current standard drawings SEQ-SPS-1304-0 to SEQ-SPS-1304-9 do not meet the requirements of City.

City have 530 sewerage pumping stations, of which they have identified that approximately 500 may require the replacement of the void protection installations. City has specified that the void protection works at each pumping station would generally consist of the following:

- a) Removal of the existing safety nets that were previously installed at the wet well access opening;
- b) Installation of aluminium access covers and handrails (or grating where handrails cannot be installed due to site constraints) at the wet well access opening (see **Figure 1-2-1**); and
- c) Installation of aluminium access covers and either handrails or grating at the valve chamber access opening.



Figure 1-2-1 – Sewerage Pumping Station OX38

1.2.2 Water Pumping Stations (WPS)

Similar to the SPS, City recently completed constructing fall prevention covers and grates for five WPS based on a concept design which was developed in consultation with internal stakeholders. The outcome and finished product of the five WPS is acceptable to City and this design is now being repeated for other WPS. City wishes to develop this concept design for the WPS to a set of standard design drawings and specifications of similar standard to the SPS.

2.0 DESIGN METHODOLOGY

Throughout the development of the standard drawings for void protection works at pumping stations, Calibre Consulting consulted with a number of stakeholders, visited City's pumping stations and performed a literature review on relevant documents. These tasks are detailed as follows:

- a) City provided Calibre Consulting with a safety alert and safety incident reports (refer **Appendix C**) for their sewerage pumping stations, mainly identifying issues relating to covers with an excessive weight;
- b) Calibre Consulting attended a pre-start meeting with City, where a number of issues were identified and the general direction of the design was discussed; this was documented in the meeting minutes which can be found in **Appendix D**;
- c) City provided Calibre Consulting with their current interim general specifications and requirements for the sewerage pumping station fall from heights project (refer **Appendix E**). This detailed treatments required for the wet well and valve chamber; it also provided specific requirements for the installation of void protection at twelve individual sewerage pumping station sites;
- d) Calibre Consulting undertook a site visit with City at two pilot sewerage pumping stations (pumping station OX38 and GN1) where falls from heights remediation installations had been completed. City identified certain elements at these sites that were acceptable to be incorporated into the standard drawings, more specifically the void protection for the wet well area at OX38 (refer **Figure 1-2**) and the void protection for the valve chamber at GN1 (refer **Figure 2-3**);
- e) Calibre Consulting prepared the standard drawings in accordance with and referenced a number of Australian Standards, this included the following key standards:
 - a. AS/NZS 1170 series Structural design actions (AS/NZS 1170)¹;
 - b. AS 1657-2013 Fixed platforms, walkways, stairways and ladders – Design, construction and installation (AS 1657)²; and
 - c. AS 3996-2006 Access covers and grate (AS 3996)³.
- f) Calibre Consulting undertook a review of the WHS Regulation (2011)⁴, primarily in regards to falls and their required control measures (ie. edge protection and covers);
- g) Calibre Consulting reviewed standard drawings from a number of different councils and authorities, which included the following:
 - a. Sydney Water's standard drawings for sewerage pumping stations⁵;
 - b. Hunter Water Corporation's standard drawings for sewerage pumping stations⁶;
 - c. Unitywater's standard drawings for a void protection system for pumping stations⁷;
 - d. SEQ Water's standard drawings for sewerage pumping stations⁸;
 - e. Queensland Urban Utilities' standard drawings for sewerage pumping stations⁹; and
 - f. Gold Coast City Council's standard drawing 'Light duty access cover for sewerage lift stations and pumping stations'.¹⁰

¹ Standards Australia, 'AS/NZS 1170 series Structural design actions', (Sydney, NSW: Standards Australia) [accessed 16 December 2015]

² Standards Australia, 'AS 1657-2013 Fixed platforms, walkways, stairways and ladders – Design, construction and installation', 4th edn, (Sydney, NSW: Standards Australia, 2013)

³ Standards Australia, 'AS 3996-2006 Access covers and grates', 2nd edn, (Sydney, NSW: Standards Australia, 2006)

⁴ Work Health and Safety Regulation 2011 (Qld)

⁵ Sydney Water, 'Deemed to Comply Drawings – Sewage Pumping Stations' (accessed February 16, 2015); available from http://www.sydneywater.com.au/web/groups/publicwebcontent/documents/document/zgrf/mdux/~edisp/dd_051841.zip

⁶ Hunter Water Corporation, 'Standard Drawings – Sewerage Pumping Stations' (accessed February 16, 2015); available from <http://www.hunterwater.com.au/Building-and-Development/Drawings-Plans-Specifications/Standard-Drawings/Sewerage-Pumping-Stations.aspx>

⁷ Unitywater, 'Typical Void Protection Drawings for Pump Stations', Rev A, (Unitywater, 2012)

⁸ SEQ Water, 'SEQ Water Supply and Sewerage Design and Construction Code' (accessed February 16, 2015); available from <http://www.seqcode.com.au/seq-sewage-pumping-station/>

⁹ Queensland Urban Utilities, 'Standard Drawing Submersible Sewerage Pumping Station', Rev A, (Queensland Urban Utilities, 2010)

¹⁰ Gold Coast City Council, 'Standard Drawing 08-07-127 – Light Duty Access Cover For Sewerage Lift Stations and Pump Stations', 2008 edn, (Gold Coast City Council, 2008)

- h) Calibre Consulting consulted cover manufacturer Mass Products Pty Ltd (ACN: 150 638 154), as City advised that they had undertaken work on pilot pumping station OX38. A meeting was undertaken with Mass Products, where they recommended the use of Halliday's cover and retro-grate proprietary products to provide fall protection to the sewerage pumping stations. Calibre Consulting provided City with concept drawings (refer **Appendix F**) detailing two options; aluminium covers and grates, and the Halliday proprietary products. After City's review, their preference was for the aluminium covers and grates, as City advised a number of issues had been identified with the Halliday proprietary products on previous site safety assessments;
- i) Calibre Consulting consulted with handrail and grate manufacturer Webforge Australia Pty Ltd (ABN: 13 009 419 756), regarding the spans of their self-closing gates. Webforge provided advice and a drawing for their self-closing double gate (refer **Appendix G**);
- j) Calibre Consulting prepared and submitted 50 percent complete SPS standard draft drawings to City for their review (refer **Appendix H** for drawings). City provided a number of review comments and a workshop was held to discuss these; notes and issues from this meeting can be found in **Appendix I**;
- k) Calibre Consulting prepared and submitted 100 percent complete SPS standard draft drawings to City for their review (refer **Appendix K** for drawings). City provided a number of review comments and a workshop was held to discuss these;
- l) Calibre Consulting prepared and submitted final SPS standard drawings to City for their review (refer **Appendix L** for drawings);
- m) Since the final submission, a number of amendments have been made to the SPS standard drawings, the latest set can be found in **Appendix M**;
- n) City approached Calibre Consulting with a variation of works to prepare WPS standard design drawings similar to the recently completed SPS design drawings and specifications;
- o) Calibre Consulting undertook a site visit with City to WPS PMU-11 Canopy Road, Bonogin. This site had recently been upgraded in accordance with City's concept design. City identified key aspects of the covers and grates, and some alterations to be made in the standard drawings;
- p) City provided Calibre Consulting with as-constructed drawings and specifications of the five completed water pumping stations (refer **Appendix N**) to use as a basis for the standard drawings;
- q) Calibre Consulting prepared the standard drawings in accordance with the same Australian Standards referenced for the SPS;
- r) Calibre Consulting prepared and submitted draft WPS drawings to City for their review (refer **Appendix O** for drawings); and
- s) Based on the feedback provided by City, the final WPS drawings were prepared and submitted to City (refer **Appendix P**).

The following highlights key issues for each of the individual design elements specific to the fall prevention devices.

2.1 Access Covers

It was identified that both the SPS and WPS access openings would require access covers (refer to **Figure 2-1**). During the development of the specifications for the access covers, Calibre Consulting took into account the following key design considerations:

- a) It was identified in the safety alerts, safety incident reports and highlighted in City's specifications that there is a safety issue with the opening and closing of heavy access covers. In consultation with City, the standard drawings addressed this issue in the following two ways:
 - a. It specified that the access covers shall be constructed from aluminium, due to its light weight; and
 - b. It specified that the lifting points shall have a maximum lifting weight of 16kg and a cover shall have total maximum lifting weight of 32kg. Access covers with a lifting weight over 16kg shall have two lifting points and an etched warning plate stating 'OVER 16kg'.
- b) It was identified that the covers would only be subject to pedestrian loads, as they would either have handrails surrounding the perimeter of the cover or bollards installed to prevent vehicles traversing them. It was therefore proposed in the 50 percent complete draft drawings that the covers shall be designed to Class A in accordance with AS 3996.

City identified an issue with specifying that covers be designed in accordance with AS 3996; that is, it requires the covers to undergo load testing. This was not considered practical for this project, as most the covers are

uniquely designed for each individual site and would result in two covers be manufactured for each site, one for testing and one for installation. Following consultation with City, the design requirements of the covers were changed so that they would only be designed for Class A loadings as specified in AS 3996 Section 3, not in accordance with the whole standard. Additional, AS 3996 only applies to access covers and grates having clear openings up to 1300mm, which may not encompass all sewerage pumping stations.

- c) The lifting handles on the access covers were identified as a potential tripping and safety hazard; with maintenance personnel having to lean over the handrails to open the covers. To minimise this hazard, it was determined that keyway slots would suffice in providing the only lifting point, with the lifting handles removed.
- d) It was identified that the wet well covers should be designed to reduce the odours from the wet well. Based on the seals identified on Calibre Consulting's site visit to pumping station OX31, City's specifications and other councils' standard drawings (as referenced in Section 2.0), the wet well covers were specified to be completed sealed with a foam tape bonded to the perimeter underside.
- e) It was identified that access covers in pedestrian walkways should not be raised greater than 2mm above the top of the frame (as specified in AS 3996 Clause 3.3.4)¹¹ as it may create a potential trip hazard; which the design does not comply with. However it was deemed that this would only cause a greater risk for access covers located in pedestrian walkways (e.g. footpaths) without a handrail around the perimeter. The drawings therefore specify that those access covers should be designed flush.



Figure 2-1 – Typical Access Cover for SPS wet-well

2.2 Handrails

It was identified that handrails (or grating where handrails cannot be installed due to site constraints) are required to provide edge protection around the SPS wet well access openings and optionally for valve chamber access openings (alternatively grates can be installed). During the development of the specifications for the handrails, Calibre Consulting took into account the following key design considerations:

- a) It was specified that the handrails shall be designed in accordance with AS 1657; handrail sizing was specified in the standard drawings based on Webforge's AS 1657 compliant aluminium handrail specifications.
- b) To reduce the risk of falling from heights at the sewerage pumping stations, the following specifications for the handrail gates were specified:
 - a. That the gates shall have a self-closing hinge;
 - b. That the gates shall only open outwards, with the use of an aluminium stopper;
 - c. That the gates shall be lockable to restrict access; and
 - d. That the dual gates shall have a removable centre stanchion, as requested by City to stop the dual gates opening inwards and to allow the removal of the centre stanchion for large equipment to pass through the dual gates.
- c) The WHS Regulation (2011) requires edge protection to have toe boards to be at least 150mm high, which the specifications comply with and specify.
- d) To assist with the operational personnel and functioning of the gates and open covers, three different toe board connection details were specified, as follows:
 - a. A welded connection which is typical detail;
 - b. A hinged at bottom connection on the pump guide rail side to assist maintenance personnel who may be required at times to lay beneath the handrail; and

¹¹ Standards Australia, 'AS 3996-2006 Access covers and grates', 2nd edn, (Sydney, NSW: Standards Australia, 2006)

- c. A hinged at top connection to allow for the access covers to open beneath the gate/s.

2.3 Grates

It was identified that grates are required to provide fall protection for the SPS valve chamber access openings without handrails (refer **Figure 2-3** and **Figure 2.4**) and the WPS access openings that are regularly opened. During the development of the specifications for the grates, Calibre Consulting took into account the following key design considerations:

- a) City stated that operating personnel may use the grate as a type of work platform during the operation of the valves. In consultation with City it was specified that the grates should be designed in accordance with the structural design actions of AS/NZS 1170 and platform loadings of AS 1657.
- b) To reduce the risk of falling during the operation of the valves (ie. removing the grate to gain access), City requested that the grating have an opening to allow for the operation of the valves without the need to remove the cover, as shown at pumping station GN1 (refer **Figure 2-3**). Therefore, it was specified that the grating shall have valve spindle openings located to suit each individual pumping station and the opening shall be nominally 100mm by 100mm as requested by City. It was identified that the valve spindle openings could be a potential trip hazard, however it was assessed that not having the valve spindle openings and requiring the grates to be opened posed a greater risk to the operator than the trip hazard.
- c) To allow access into the valve chambers, the grates were designed to be open with the use of a hinged connection, similar to the installation at pumping station GN1. To stop the grates inadvertently falling shut, it was specified that the grates shall be positioned such that they can open at least six degrees past vertical and that they should be secured in an open position by a lanyard attached to the access cover.



Figure 2-3 – Sewerage Pumping Station GN1; Typical Grate

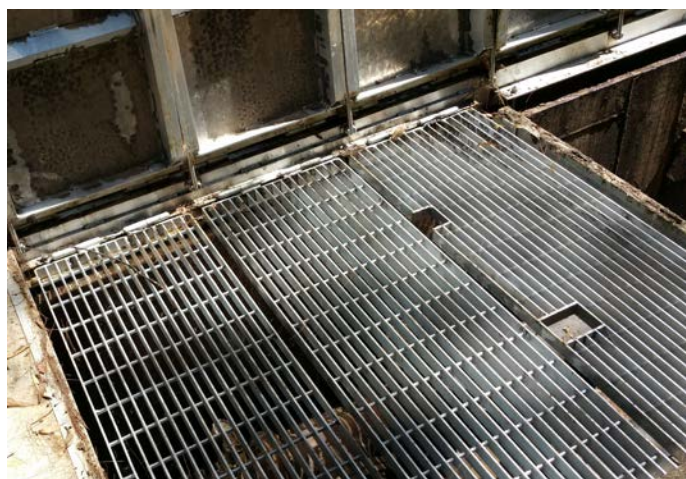


Figure 2-4 – Water Pumping Station; Typical Grate

3.0 DESIGN AND SAFETY

3.1 Design Philosophy

City's four year program to replace the void protection at a number of sewerage pumping stations, is to bring the pumping stations in line with the current Work Health and Safety Regulations 2011; to provide a safe and secure working environment for its staff and contractors, specifically in relation to the risks of falling from heights.

3.2 Safety In Design

During the design process Calibre Consulting created a risk register which identified safety risks in regards to the construction, use, maintenance, and removal and disposal of the sewerage pumping stations and their associated control measures. A copy of this safety in design risk register can be found in **Appendix J**.

APPENDIX C

Safety Alert and Incident Reports

Luke Friske

From: RAWLINGS Peter <PRAWLINGS@goldcoast.qld.gov.au>
Sent: Wednesday, 27 August 2014 4:53 PM
To: DL GCW
Subject: GCW Safety Alert - Pump Station Lids

Importance: High

CITY OF
GOLD COAST.



GCW Safety Alert

Create Zero Harm

Date of issue: 27/08/2014

Pump Station Lids

A safety hazard has been identified that requires communication across Gold Coast Water.

Nature of safety alert

This alert is to notify all personnel working in and around any pump station wells – there was a recent injury at SPS B30 – Mermaid Water (adjacent the Mermaid Bowls Club)

Contributing factors

- Excess weight of the lid not taken into account on the JSA and mitigation put in place
- Use of second person to assist closing did not happen
- Concerns and issues with these lids was known, yet not reported or raised as a hazard

Immediate actions undertaken

- The lids have now been placed on the fall from heights project for rectification– (if not completed beforehand)
- As part of the project it is important to capture any lids out at the stations that are heavy and may cause strains' sprains
- Reported to Supervisor immediately, passed to Manager
- Reported incident into HandS

- Incident raised at team meeting / email sent

Corrective actions required by ALL employees

- Assess the risk associated with working on wells with lids heavier than acceptable - complete a JSA/ ALLSAFE prior to undertaking work, use two people where necessary.
- Report any hazards to supervisor immediately- especially heavy lids – iPad – email Supervisor or preferably put Hazard into HandS.
- Be aware of the changing environment and minimise risks wherever possible.

Corrective actions required by ALL Supervisors and Managers

- Ensure workers complete an JSA / ALLSAFE
- Ensure appropriate PPE is worn
- Ensure hazards that are being reported are being reviewed and considered and ACTIONED

- Raising awareness of this particular hazards at team meetings and toolbox talks

Related procedures

WHS-302 Job Safety Analysis and ALLSAFE SOP (iSPOT #40792972)

Person/s responsible for further investigation

For further information please contact
Chris Gripton on #8734 or
alternatively speak with your
Supervisor

This notice remains valid for 12 months from the date of issue and will expire on the 26/08/15.

Luke Friske

From: JOSEPH Stephen <SJOSEPH@goldcoast.qld.gov.au>
Sent: Thursday, 20 November 2014 9:49 AM
To: Luke Friske; David Yang
Subject: FW: Fall From Heights SPS (Pre-Start Meeting Agenda)

Categories: Saved In Gelly

FYI.

Stephen Joseph

Project Manager
Gold Coast Water
City of Gold Coast

T: 07 5582 8156
PO Box 5042 Gold Coast Mail Centre Qld 9729
cityofgoldcoast.com.au



From: GRIPTON Christopher
Sent: Thursday, 20 November 2014 5:28 AM
To: JOSEPH Stephen; MANSON David
Subject: RE: Fall From Heights SPS (Pre-Start Meeting Agenda)

Stephen
Two of the incidents related to lids at pump stations in recent times

[Exit](#)[Print](#)[Help](#)[Audit Log](#)

Whilst closing middle lid it started to slip had to re-grab lid it then pulled him onto the rail

Accountable:

Composed: 19/08/2014

Created by: Steven TUESLEY

Status: Clo
Document

Hierarchy

+ Gold Coast Water/System Control/Mechanic / Elect Control/S017-B30

Classification

[Classification](#) | [Particulars](#) | [Investigation](#) | [Links](#)

Incident Details

Reporting Person:	TUESLEY Steven	Person Involved: ?	BLAKE Lee
Date Reported:	19/08/2014	Occur Date:	19/08/2014 12:00
Affiliation:	Employee	External Employer Name:	
Brief Description:	Whilst closing middle lid it started to slip had to re-grab lid it then pulled him onto the rail		
Third Party Involved?	No	Related Incidents:	

Define Incident

Classification: ?	Lost Time Injury	Confidential?	
Actual Incident Category: ?	2 - Medium Risk	Potential/Worst Case Category: ?	2 - Medium Risk
Externally Reportable: ?	Not reportable		

Particulars

[Classification](#) | [Particulars](#) | [Investigation](#) | [Links](#)

Exit Print Help Audit Log			
WWPS UC19 Lifting lid on wet well felt twinge in lower back			Accountable: GR
Composed: 01/07/2014		Created by: Wayne GRIFFITHS	Status: Clo Document
Hierarchy			
+ Gold Coast Water/System Control/Mechanic / Elect Control/Molendinar Workshop			
Classification Classification Particulars Investigation Links			
Incident Details			
Reporting Person:	GRIFFITHS Wayne	Person Involved: ?	THOMPSON Alan
Date Reported:	01/07/2014	Occur Date:	01/07/2014 08:00
Affiliation:	Employee	External Employer Name:	
Brief Description:	WWPS UC19 Lifting lid on wet well felt twinge in lower back		
Third Party Involved?	No	Related Incidents:	
Define Incident			
Classification: ?	Suitable Duties Injury	Confidential?	
Actual Incident Category: ?	1 - Low Risk	Potential/Worst Case Category: ?	1 - Low Risk
Externally Reportable: ?	Not reportable		
Particulars Classification Particulars Investigation Links			
Personal details of the injured worker			

Regards
Chris Gripton
 Executive (Operational) Coordinator Mechanical / Electrical / Control
 Gold Coast Water
for the Chief Executive Officer

CITY OF

GOLD COAST ●

Ph: 07 5582 8734 **Mob:** 0414 180 423 **Fax:** 07 5581 7026
PO Box 5042 Gold Coast Mail Centre Qld 9729
<http://www.goldcoastcity.com.au>

From: JOSEPH Stephen
Sent: Wednesday, 19 November 2014 4:04 PM
To: MANSON David
Cc: GRIPTON Christopher
Subject: RE: Fall From Heights SPS (Pre-Start Meeting Agenda)

Great thanks.

Stephen Joseph

Project Manager
Gold Coast Water
City of Gold Coast

T: 07 5582 8156
PO Box 5042 Gold Coast Mail Centre Qld 9729
cityofgoldcoast.com.au



From: MANSON David
Sent: Wednesday, 19 November 2014 4:03 PM
To: JOSEPH Stephen
Cc: GRIPTON Christopher
Subject: RE: Fall From Heights SPS (Pre-Start Meeting Agenda)

Hi Stephen,

The incidents will be in Hands. I had a look but was unable to fine what you require. I am starting on site tomorrow but Chris G may have a look for you if he gets time.

Lee Blake's arm incident was at B30. Alan Thompson also hurt his back lifting a lid at UC19.

APPENDIX J

Safety in Design Risk Register

SAFETY IN DESIGN RISK REGISTER												
Project: Drawings and Specifications to Prevent Falls from Heights at Sewerage Pumping Stations Project No: 20097 Location: Various Owner: City of Gold Coast (CGC) Date: 11 February 2015												
ID	RISK	RISK DESCRIPTION	INITIAL RISK RATING*			CONTROL MEASURES	REVISED RISK RATING*			STATUS	FURTHER ACTIONS	RISK OWNER
			Likelihood	Consequence	Risk		Likelihood	Consequence	Risk			
1	Working around powered mobile plant.	Machinery related injuries or significant permanent injury resulting from construction of access cover or handrails.	C	2	H	- Ensure all personnel at the workplace wear appropriate PPE gear including high visibility clothing and helmet.	D	2	M	Open	Implement a site-specific safe work procedure for working around plant and follow the latest version (or equivalent guideline) of the <i>Managing Risks of Plant in the Workplace Code of Practice</i> .	CGC and Contractor
2	Working in a confined space.	Injuries and possible asphyxiation resulting from working in pump stations and other confined spaces.	C	2	H	- Ensure confined spaces are supported to mitigate the risk of collapse.	E	4	M	Open	Implement a site-specific safe work procedure for working in confined spaces. Ensure all personnel have completed all relevant City of Gold Coast Inductions and have a copy of the certificate on-site.	CGC and Contractor
3	Working on, or adjacent to a road.	Life threatening injury or significant permanent injury from works on roads resulting in collisions involving pedestrians and/or vehicles.	C	1	E	- Reduced speed limit and implement approved traffic guidance scheme.	D	3	M	Open	Implement a site-specific traffic management plan and follow the latest version (or equivalent guideline) of <i>Traffic Management for Construction or Maintenance Work Code of Practice</i> and the <i>Manual of Uniform Traffic Control Devices (MUTCD)</i> .	CGC and Contractor

4	Working near an exposed energised electrical installation.	Electrocution by inadvertent damage or contact with electrical installations.	C	1	E	<ul style="list-style-type: none"> - Undertake site investigations to determine actual location/s of electrical installations. 	D	2	M	Open	Implement a site-specific safe work procedure for working in close proximity to electrical infrastructure and follow Energen's latest version of <i>A Guide to Working Near the Energen Network</i> .	CGC and Contractor
5	Working with hazardous substances.	Injuries requiring professional medical treatment resulting from contact with general hazardous substances associated with construction, maintenance and operational works.	D	3	M	<ul style="list-style-type: none"> - Only conduct works with hazardous substances where/when necessary; - Ensure personnel working with hazardous substances are adequately trained and aware of the safety processes; and - Ensure all personnel at the workplace wear appropriate PPE. 	E	4	L	Open	Implement a site-specific safe work procedure for working with hazardous chemicals and follow the latest version (or equivalent guideline) of the: <ul style="list-style-type: none"> - <i>Managing Risks of Hazardous Chemicals in the Workplace Code of Practice</i>; - <i>Labelling of Workplace Hazardous Chemicals Code of Practice</i>; and - <i>Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice</i>. 	CGC and Contractor
6	Working near Public Utility Plant (PUP).	Damage to existing PUP during excavation works resulting in injury (i.e. sewerage main).	C	3	M	<ul style="list-style-type: none"> - Undertake site investigations to determine location/s of PUP prior to construction. 	E	5	L	Open	Implement a site-specific safe work procedure for working in close proximity to PUP.	CGC and Contractor
7	Manual handling tasks.	Minor injuries resulting from general manual handling of plant, materials and equipment associated with the proposed works.	A	4	H	<ul style="list-style-type: none"> - Use appropriate PPE and safe work methods. - Utilise the aid of machinery where practicable. 	C	5	L	Open	Implement a site-specific safe work procedure for all manual tasks and follow the latest version (or equivalent guideline) of the <i>Hazardous Manual Tasks Code of Practice</i> .	CGC and Contractor
8	Working around noise.	Major hearing injuries resulting from working near plant with high noise levels.	B	3	H	<ul style="list-style-type: none"> - Ensure personnel working adjacent to plant generating high noise levels wear hearing protective gear. 	C	5	L	Open	Implement a site-specific safe work procedure for working near noise and follow the latest version (or equivalent guideline) of the <i>Managing Noise and Preventing Hearing Loss at Work Code of Practice</i>	CGC and Contractor

9	Working with mobile cranes.	Major injuries and possible fatalities resulting from loss of control of unloading and loading of equipment and materials using cranes or plant in crane mode.	C	1	E	<ul style="list-style-type: none"> - Ensure all personnel at the workplace wear high visibility PPE and helmet; - Ensure all personnel are licensed to operate cranes or plant capable of crane mode; and - Ensure a spotter is always used during works with mobile cranes. 	D	2	M	Open	<p>Implement a site-specific safe work procedure for use of cranes and follow the latest version (or equivalent guideline) of the:</p> <ul style="list-style-type: none"> - <i>Mobile Crane Code of Practice</i>; and. - <i>Managing Risks of Plant in the Workplace Code of Practice</i>. 	CGC and Contractor
11	Working near live sewerage pump stations	Exposure to raw sewerage and associated infection and disease (hepatitis)	B	2	H	<ul style="list-style-type: none"> - Ensure all personnel at the workplace wear PPE gear. - Ensure all personnel regularly wash their hands using industrial handwash. 	C	3	M	Open	<p>Implement a site-specific safe work procedure for working near live sewerage stations. Ensure all personnel have completed all relevant City of Gold Coast Inductions and have a copy of the certificate on-site.</p>	CGC and Contractor
12	Fall from height	Working near pump station with risk of falling more than 2m high.	B	2	H	<ul style="list-style-type: none"> - Ensure all personnel working near void openings to be properly bilayered and securely safely. 	C	3	M	Open	<p>Implement a site-specific safe work procedure for working near heights. Ensure all personnel have completed all relevant City of Gold Coast Inductions and have a copy of the certificate on-site.</p>	CGC and Contractor
13	Odour	Exposure to sewerage odour from pump station.	B	2	H	<ul style="list-style-type: none"> - Ensure all personnel take regular breaks away from site. 	C	3	M	Open	<p>Implement a site-specific safe work procedure for working near high levels of odour. Ensure all personnel have completed all relevant City of Gold Coast Inductions and have a copy of the certificate on-site.</p>	CGC and Contractor

***Qualitative Risk Analysis Matrix**

		CONSEQUENCES					RISK LEVEL
		1. CATASTROPHIC Fatality.	2. MAJOR Life threatening injury / significant permanent injury.	3. MODERATE Injury requiring professional medical treatment.	4. MINOR Injury requiring first aid treatment.	5. INSIGNIFICANT No injury.	
LIKELIHOOD	A. ALMOST CERTAIN The event is expected to occur in most circumstances.	Extreme	Extreme	High	High	Medium	
	B. LIKELY The event will probably occur in most circumstances.	Extreme	High	High	Medium	Medium	
	C. POSSIBLE The event should occur at some time.	Extreme	High	Medium	Medium	Low	
	D. UNLIKELY The event could occur at some time.	High	Medium	Medium	Medium	Low	
	E. IMPROBABLE The event may occur only in exceptional circumstances.	High	Medium	Medium	Low	Low	

ATTACHMENT 1.4

GENERAL PUP/SERVICE LOCATION SPECIFICATION

General Public Utility Plant / Service Location: SPECIFICATION

1. SCOPE

The intent of the Service Location Scope is to ensure that all Public Utility Plant (PUP) service location issues that may have an impact on the design, construction and the performance of the pressure mains are adequately investigated and that appropriate information and advice is provided for incorporation into the design and construction stages of the project. The Contractor must be proactive in determining and modifying the scope of services as required meeting the described intent.

The scope of services must be applied to all elements within the scope of work defined for the work package. The Contractor must supply all labour, supervision, materials, plant and equipment required to complete the positive identification and survey of existing services in accordance with the requirements of the Contract.

The extent of the works is to:

- Identify all services within the proposed pipeline corridors (survey area) as per Council GIS information and nominated on the Dial Before You Dig (DBYD) datasets or evident from a site inspection. The pipeline corridor is nominated to be from the property boundary on the existing water main side of the road reserve extending to the property boundary on the opposite side of the road, extending beyond the entire length of the main replacement so that there is a buffer of at least 10 metres beyond the expected tie-in locations and to include lateral connections along the replaced pressure main. The purpose of this for lateral main connection is so that the future alignment of the lateral pressure main is able to be taken into consideration with the design. The DBYD datasets are the Contractor's responsibility to source;
- identify all services nominated (on a drawing) as requiring to be potholed;
- record and survey all services identified;
 - service detector to number potholes and record GPS coordinates and details of the service on mud maps / drawings and;
 - all services to be 'surveyed' by the Contractor's nominated surveyor;
- record services identified on the DBYD.

To identify existing services the Contractor must adopt the following hierarchy:

- survey surface features and service details at manholes, all pits, electrical boxes, water meters, footpath, phone boxes, poles (i.e. light, power etc), traffic lights, kerb / channel etc. where such surface features provide a firm indication of the service alignment;
- use non-destructive electronic service detection techniques where surface features are not available or are too distant from the area of interest;
- pothole to physically identify the service where electronic detection is not available or not reliable.

The extent of potholing is to be confirmed with the Superintendent. The requirement for potholing will be influenced by:

- the proximity to the proposed alignment, and;
- the degree of risk associated with the service;
 - gas, fibre optic trunk cable, and HV electricity are to be positively identified if within the pipe corridor or road reserve;
 - property connections for water and Telstra are not to be potholed except by specific request;
 - property electrical connections are to be potholed if affected by the pipe alignment.

For services crossing the proposed pressure main, it is required to pothole on the proposed alignments, or near as practical, to determine the depth, angle, and grade of the existing service crossings being a potential conflict.

The Contractor must record and survey all services located and the method of Identification (pothole or electronic). All survey pick-ups must be undertaken as per the contractor specification.

Data to be recorded must include:

- overall schematic showing all pothole locations with reference numbers for data;
- service type identified;
- natural surface level in AHD;
- depth to service;
- X and Y co-ordinates as per the Principal's local grid co-ordinate system;
- points marking the locations of all positions where services have been detected;
- written notes of observations made during service detection works (e.g. "splay" of multiple conduit services such as bundled telecommunications cables between pits).

Where it is proposed to connect to an existing pipeline, the Contractor must:

- verify the outside diameter (OD) of the pipeline to be connected;
- verify existing pipe material;
- positively identify the pipeline at all proposed connection locations to confirm alignment and grade. It is understood that multiple potholes are likely to be required in order to confirm the grade of an existing pressure main, especially for sewer rising main where the grade is pertinent to design for operational requirements.

Data must be provided electronically in both drawing and tabular format. In addition the Contractor must provide copies of field sheets (mud maps).

2. OTHER REQUIREMENTS

2.1 Personnel

The Contractor must provide a list of personnel proposed for the project including respective roles on this project and any relevant project experience.

2.2 Deliverables

The following deliverables must be provided in addition to any specific requirements nominated elsewhere:

- Map / schematic with services showing location all potholes, references and data;
- Copy of the final survey in AutoCAD DWG or DXF format (2010 unless otherwise specified) showing all features, contours, services (strung together) and property boundaries;
- A copy of the relevant field notes including (but not limited to the following) :
 - Point number
 - X coordinate
 - Y coordinate
 - Z coordinate
 - Street and Suburb name
 - Pothole number
 - Type of material
 - Depth (m)
 - Diameter (m)
 - Service provider / Type of service
 - Number of conduits
 - Soil type
 - Accuracy quality
 - comments
- A copy of the plot codes legend used.

2.3 Project review

Review of deliverables must be undertaken by the head of the relevant discipline within the Consultant's organisation or equivalent if that person has been involved in the production of the deliverable.

2.4 Equipment Calibration Certificates

The Contractor must provide the Superintendent with current equipment calibration certificates, prior to commencement of site works and when updated.

2.5 Survey Presentation

Presentation must be in accordance with the contract specification and the Principal's current specification - Standard Electronic Format for As-constructed Data. This specification is available on the City of Gold Coast website.

PART D ATTACHMENTS



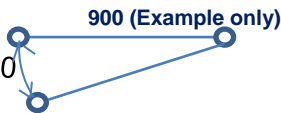
ATTACHMENT 2.1

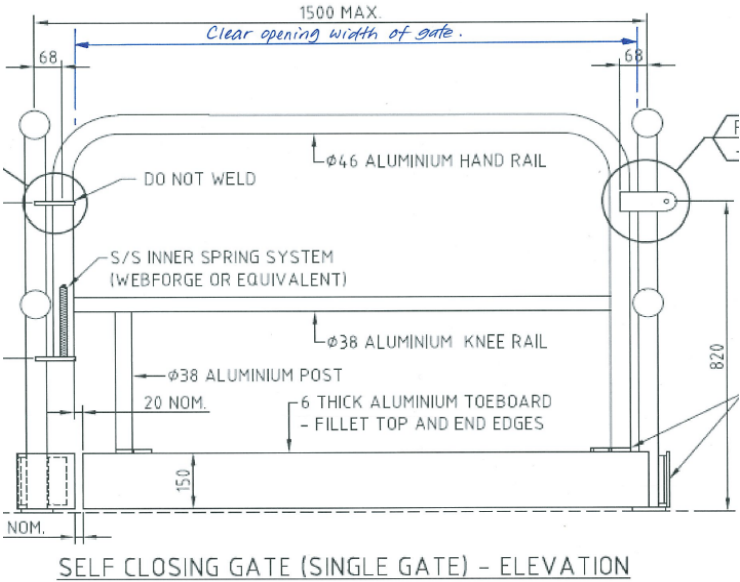
SPS SCOPE SUMMARY




ATTACHMENT 1B: SITE DATA SHEETS

HOW TO READ THE SITE DATA SHEETS:

Also refer to Attachment B Clause 1.3 :

- 
 = The approximate north direction. This is to enable identifying orientation and the direction of the opening of the covers and handrail gates.
- 
 = When shown within the wet-well opening; the position / orientation of the pump guide rails to establish which face of the handrail gate requires toeboard Type 2.
- 
 = The opening direction of the gate. The number (900 in this example) refers to the clear opening width in millimetres, of the gate width. Refer to diagram below for clarity on clear opening width.



- 
 = When shown on grate; position indicates cut out opening for access to valve spindle, or by-pass pipe opening. If * or X is shown, the inside clear opening dimensions are 100mm by 100mm. If  shown, the inside clear dimensions are 250mm by 250mm unless indicated otherwise in rectangle.
- 
 = Opening direction of covers. Dashed line indicates existing opening direction. Continuous line indicates new opening direction.

If in the event clarification is required on information provided in Site Data Sheets, refer to the Superintendent before commencing design works.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

												PACKAGE	GROUP
												4	13
#	SITE ID	ADDRESS	WET WELL (COVER)				WET WELL (HANDRAIL)			VALVE CHAMBER / LIFT STATION DISCHARGE CHAMBER (LID/GRATE/BOLLARD)			
			VOID DIMENSIONS		COVER OPENING OPTION [1]	ADDITIONAL COMMENTS.	HANDRAIL OPENING OPTION [2]	ADDITIONAL COMMENTS		VOID DIMENSIONS		COVER / GRATE OPENING OPTION [3]	ADDITIONAL COMMENTS
			(A)	(B)						(A)	(B)		
1	C25	CASUARINA DV, ELANORA	1470	980	2LA	Nil	2H1	Nil		1445	940	2VCB	Nil
2	B13	TALLERBUDGERA FINTESS CAMP, PALM BEACH	1070	850	1LA	Nil	2H1	(1) Remove 4.0m approximately of existing steel handrail before installing new handrails. Reinstate redudant bolt holes on concrete with epoxy mortar.		N/A	N/A	N/A	N/A
3	B26	PARNKI PDE, PALM BEACH	680	450	1LA	(1) Remove hob and gatic frame.	2H1	Nil		835	845	1VCA	Nil
4	B52	MALLAWA DV, PALM BEACH	1300	910	2LB	(1) Remove hob. (2) Lower gatic manhole adjacent to wet-well opening by approximately 80mm to match slab FL. Replace gatic lid and frame to new. Removal of concrete surface approximately 80mm necessary around gatic lid.	2H1	Nil		1100	705	1VCA	Nil
5	B53	MYRTLE CT, PALM BEACH	790	820	1LA	Nil	2H2	Nil		790	820	1VCB	Nil
6	C7	K.P. MCGRATH DV, ELANORA	1255	945	2LB	Nil	2H2	(1) Handrails on three sides only.		1105	905	2VCB	Nil
7	C5	MURTHA DR, ELANORA	1980	1180	4LC	Nil	4H5	Nil		1975	1185	3VCC***	(1)***Also refer to Site Data Sheet for further requirements.
8	C6	MURTHA DR, ELANORA	1175	620	*2LB	(1) *Refer to Site Data Sheet. Provide concrete slab 2.4 X 0.9m X 0.14m. (2) Provide topsoil fill 2.4m X 1.5m X 0.150m.	1H1	Nil		N/A	N/A	N/A	N/A
9	B9	NINETEENTH AVE, ELANORA	1900	950	2LB	(1) Refer Site Data Sheet. Remove and replace covers only, fixed plate section over opening to remain	**	(1) Refer to Site Data Sheet. Part of handrails stanchions to be affixed on existing plate.		1840	1130	2VCA	Nil
10	B10	REES CT, ELANORA	1240	930	2LB	(1) Provide concrete slab 2.0m X 0.6m X 0.12m	2H1	Nil		1235	935	2VCB	Nil
11	C21	NINETEENTH AVE, ELANORA	1240	930	2LA	Nil	2H1	(1) Height of handrails must be measured from top level of hob.		1245	930	2VCB	(1) Existing two bolted down aluminium flaps over cored holes for valve access to remain. (2) Provide topsoil fill 3.0m X 1.5m X 0.2m along length of existing slab refer to Site Data Sheet
12	C26	WATER GUM STREET, ELANORA	1445	945	2LB	Nil	2H2	Nil		980	785	1VCA	(1) LIFT STATION
13	C32	BAEKEA DR, ELANORA.	1440	940	2LA	Nil	2H1	Nil		1440	940	2VCB	Nil
14	B16	LAGUNA PDE, PALM BEACH	2505	1300	4LC	Nil	4H5	Nil		2200	1600	4VCE	(1) Provide two Type 3 bollards (refer Drawing 79887.501 Note 5) for securing middle covers. Weld two eye-bolt on each bollard for securing chain when covers in open position..
15	SS43	GLAUCA ST, ANDREWS	1450	980	2LB	Nil	2H1	Nil		1450	980	2VCB	Nil

[illegible]

FOOTNOTES

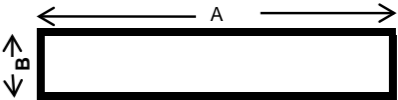
[1] REFER TO C 1: SEWERAGE PUMPING STATION STANDARD DRAWINGS. DRAWING NUMBER 79887.002

[2] REFER TO C 1: SEWERAGE PUMPING STATION STANDARD DRAWINGS. DRAWING NUMBER 79887.004

[3] REFER TO C 1: SEWERAGE PUMPING STATION STANDARD DRAWINGS. DRAWING NUMBER 79887.003

NOTES

- 1 This table must be read in conjunction with the Sewerage Pumping Station Standard Drawings - Fall Prevention Covers And Handrails At Sewerage Pumping Station, and the Site Data Sheets, which are part of this attachment.
 - 2 Void opening dimensions are in mm and between cover frames. "A" and "B" are length and breadth measurements of the void opening.
 - 3 Contractor must carry out own measurements on site for design and fabrication purposes.
Measurements given in the above table are +- 100 mm and approximate only.
 - 4 Unless otherwise stated, "LIFT STATION" in the "Additional Comments" column identifies the station as a lift station where in which its discharge chamber requires new cover(s) and new grate(s). The cover must be designed similar to wet-well cover(s).
 - 5 Two lifting slots are required for 4LC covers unless advised otherwise during the design phase..



ATTACHMENT 2.2

SPS DATA SHEETS

Refer to the following Dropbox link
https://www.dropbox.com/sh/cx3u40by45zsenj/AACHfYlHvYelxD-IV_JFljUaa?dl=0

ATTACHMENT 3.1

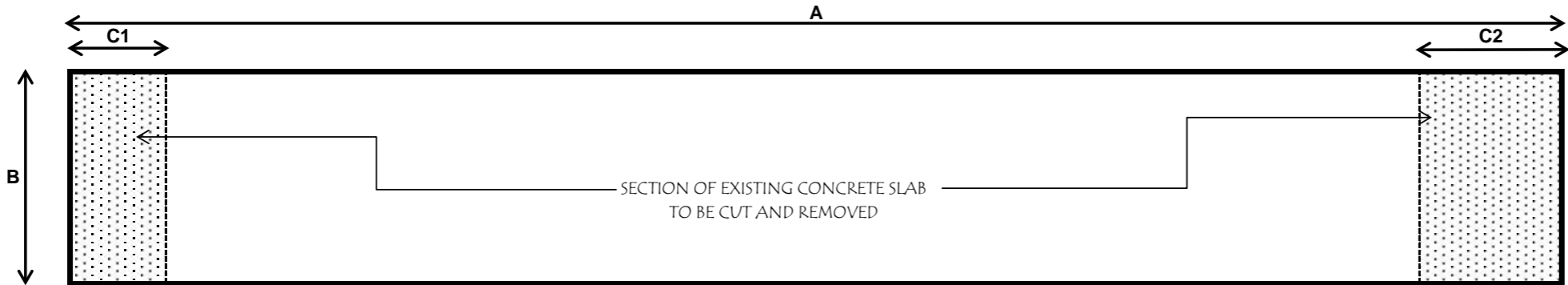
WPS SCOPE SUMMARY

SITE ID	ADDRESS	APPROXIMATE DIMENSIONS (mm)						SCOPE
		A	B	A1	A2	C1	C2	
PUC2	WIMBELDON WAY, OXENFORD	2620	1000	Nil	1000	Nil	1000	(1) Remove existing covers, remove overburden soil approximately 150mm thick to enable cutting of existing concrete slab at west end to extend pump station chamber access opening, install new RPEQ designed cover and grates. Dispose excess soil and reinstate area. (2) Grates required only at west west end.
PN2	CASTLE HILL DR, GAVEN	6930	1300	1900	500	Nil	750	(1) Remove existing covers, remove overburden soil approximately 150mm thick to cut existing concrete slab at east and north end to extend pump station chamber access opening, install new RPEQ designed cover and grates. Dispose excess soil and reinstate area. (2) Provide grates at east east end only. (3) Existing pump station has two sections separated by 180mm wide concrete slab, all concrete as shown on site data sheet must be removed. (4) Sequence of cover lifting opposite to direction shown in standard drawings.
PMO3	KINGSWAY DRIVE, MOLENDINAR	5340	1280	1100	1100	Nil	Nil	(1) Remove existing covers, install new RPEQ designed cover and grates. Reinstate area.
PMU2	EARLE CRT, TALLAI	5520	990	1150	750	2450	950	(1) Remove existing covers, remove overburden soil approximately 150mm thick to enable cutting of existing concrete slab at both ends to extend pump station chamber access opening, install new RPEQ designed cover and grates. Dispose excess soil and reinstate area. (2) Provide grates at both both ends.(3) Sequence of cover lifting opposite to direction shown in standard drawings. (4) Provide four Type 3 bollards.
PMU4	SUMMERHILL CRT, MUDGEERABA	2000	1100	Nil	Nil	Nil	Nil	(1) Remove existing covers at V1, install new RPEQ designed covers. (2) Install handrails and gates as per SPS Standard Drawings along full perimeter of pump station (i.e. V1) access opening. Handrails and gates installed at approximately 150mm away from opening, except handrails behind behind cover opening which must be spaced sufficiently away from access opening to allow covers to be opened fully as per design. (3) Design and construct straight concrete strip 1.7m X 0.3m wide for handrail stanchion support. (3) Remove cover at chamber V2 and install 6mm thick aluminium chequer plate, screwed down into place. V2= 1800mm by 1000mm, and reinstate area.
PMU13	GLENMORE DRIVE, BONOGIN	6390	1900	1200	2000	Nil	Nil	(1) Remove existing covers, install new RPEQ designed cover and grates. Reinstate area.
PW6	GLENROWAN DR, TALLAI	5300	1200	900	Nil	Nil	1300	(1) Remove existing covers, remove overburden soil approximately 100mm thick to cut existing concrete slab at west end to extend pump station chamber chamber access opening, install new RPEQ designed cover and grates. Dispose excess soil and reinstate area. (2) Provide grates at both ends
PMU8	STRAWBERRY RD, MUDGEERABA	5080	1100	1300	1100	1300	1100	(1) Remove existing covers, remove overburden soil approximately 300mm thick to enable cutting of existing concrete slab at both ends to extend pump station chamber access opening, install new RPEQ designed cover and grates. Backfill removed soil and reinstate area. (2) Existing station concrete slab has 300mm high concrete hob along perimeter of opening; new similar constructed hob must be provided along new perimeter of extended opening. (3) Covers and grates along length 'A1' must open in opposite direction/orientation to rest of covers and grates.
PT7	WATTLEBIRD CT, CURRUMBIN VALLEY	5000	1220	1400	1000	Nil	Nil	(1) Remove existing covers, install new RPEQ designed cover and grates. Reinstate area.
PG2	NATHAN ROAD, NERANG	5585	1700	1000	900	Nil	Nil	(1) Remove existing covers, install new RPEQ designed cover and grates. Reinstate area.

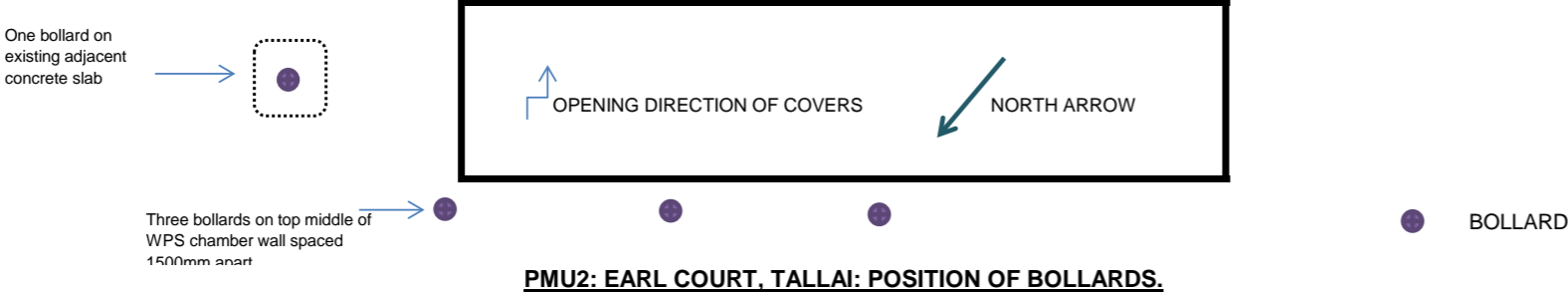
Notes

1. Refer to Water Pumping Station Standard Drawings. Fall PreventionCovers And Grates At Water Pumping Stations for identification of 'A', 'B', 'A1' and 'A2'.
2. Dimensions of 'B' by 'C1' and/or 'B' by 'C2' will provide the area of concrete top slab to be cut and removed to provide a larger access opening. Refer diagram below and WPS Site Data Sheet for clarity..
3. Dimensions are + - 100mm. Contractor must carry out own measurements on site before fabrication.

SUMMARY TABLE



GENERAL PLAN VIEW OF ACCESS OPENING SHOWING DIMENSIONS OF CONCRTE SLAB TO BE REMOVED



ATTACHMENT 3.2

WPS SITE DATA SHEETS

DIV 2

WIMBLEDON WAY, OXENFORD.



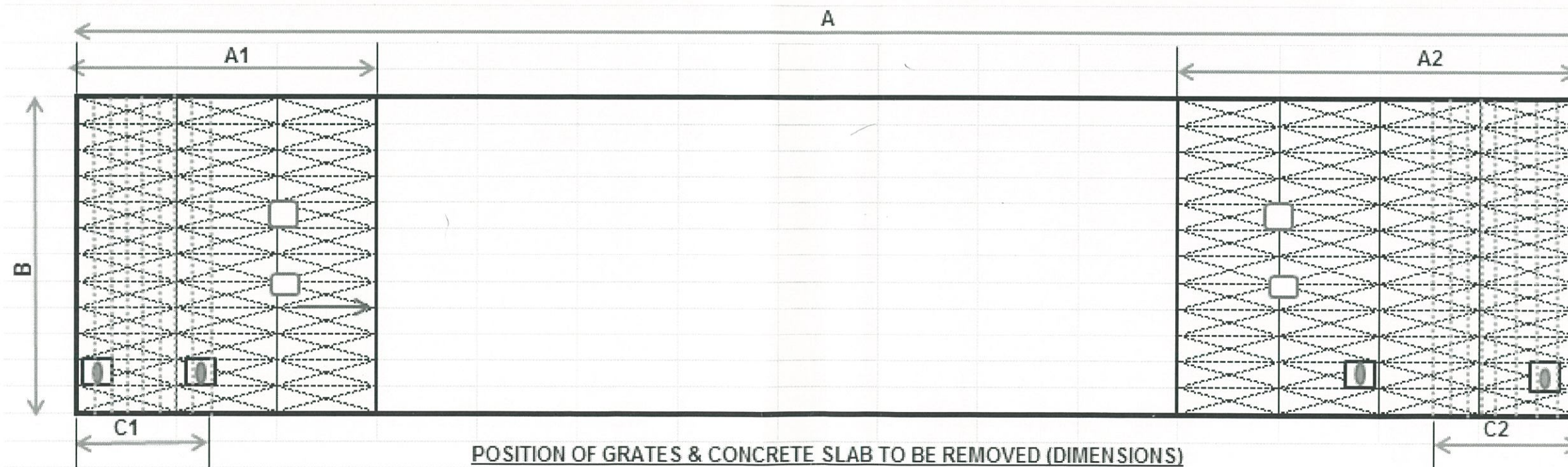
PUMP STATION :	PUC2	
PIT (DIMENSIONS)	A	B
	2620	1000
GRATE DIMENSIONS	A1	B
	N/A	N/A
	A2	B
	1000	1000
CONCRETE SLAB REMOVAL	C1	B
	N/A	N/A
	C2	B
	1000	1000

EXISTING COVER WIDTH: 1050

EXISTING COVER LENGTH: 1700

EXISTING COVER LIFTING WEIGHT: 21kg.

NO BEAM REQUIRED. Lids open West to East



WATER PUMP STATION

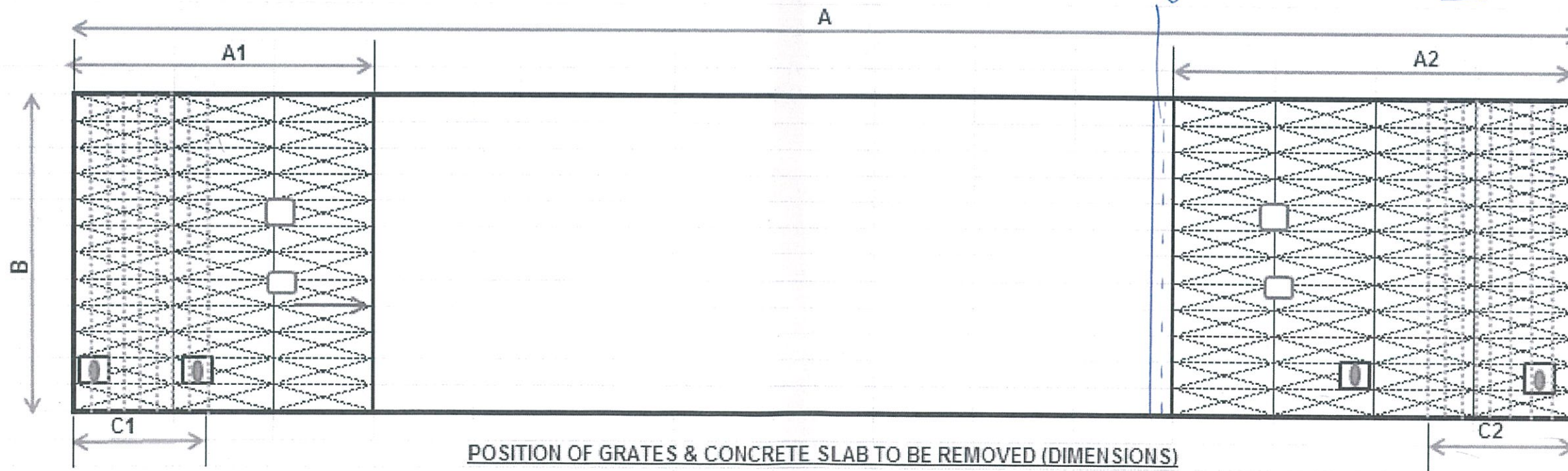
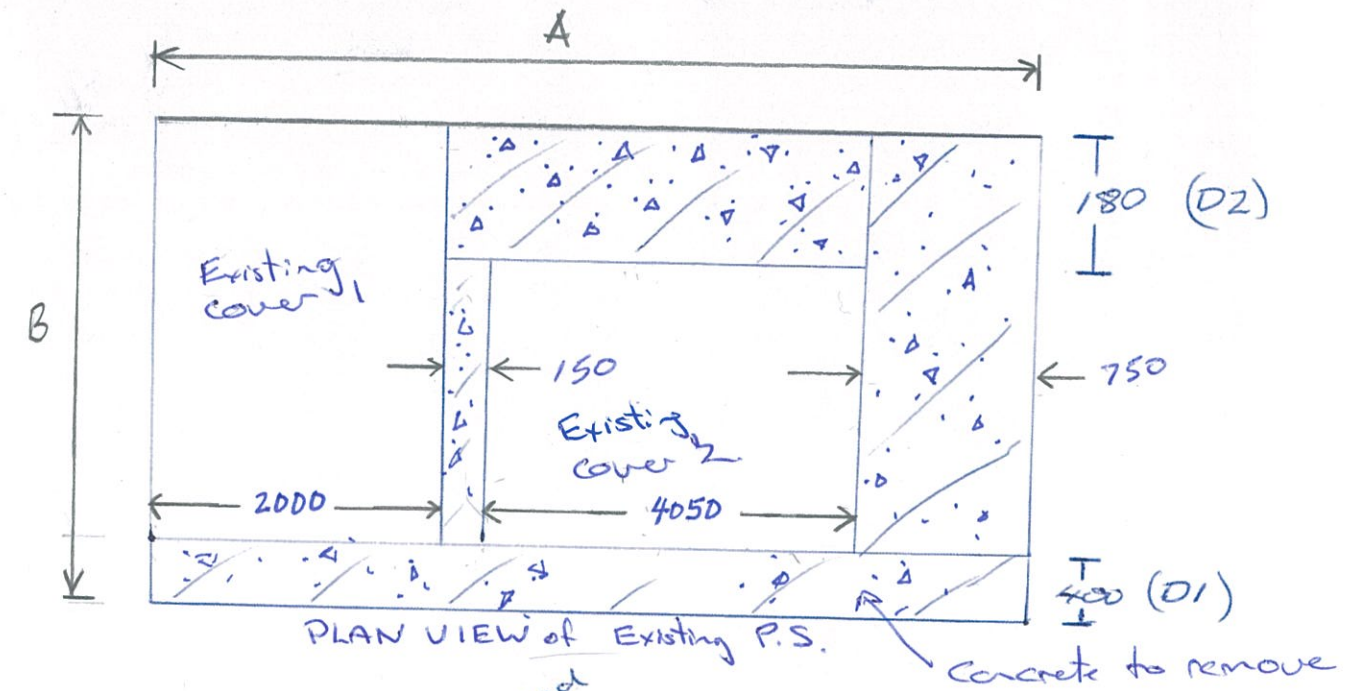
DIV 5

CASTLE HILL DR, GAVEN

PUMP STATION :	PN2	
PIT (DIMENSIONS)	A	B
	6930	1700
GRATE DIMENSIONS	A1	B
	1900	1700
	A2	B
CONCRETE SLAB REMOVAL	500	1700
	C1	B
	N/A	B
	C2	B
	750	1700

D1 - 400
D2 - 180

EXISTING COVER WIDTH:
EXISTING COVER LENGTH:
EXISTING COVER LIFTING WEIGHT:



DIV 6

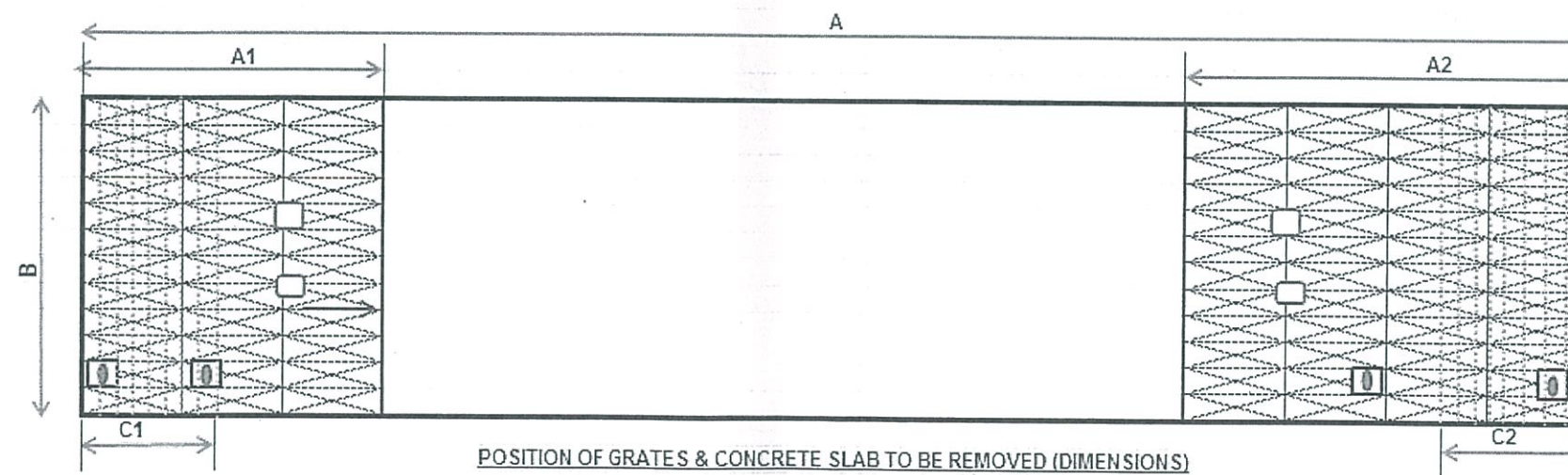
Kingsway Dr, Molendinar

PUMP STATION :	Pm03	
PIT (DIMENSIONS)	A	B
	5340	1280
GRATE DIMENSIONS	A1	B
	1100	1280
	A2	B
	1100	1280
CONCRETE SLAB REMOVAL	C1	B
	C2	B

EXISTING COVER WIDTH: 1330

EXISTING COVER LENGTH: 5400

EXISTING COVER LIFTING WEIGHT: 20 kg.



WATER PUMP STATION

DIO 9

EARLE CRT., TALLAI

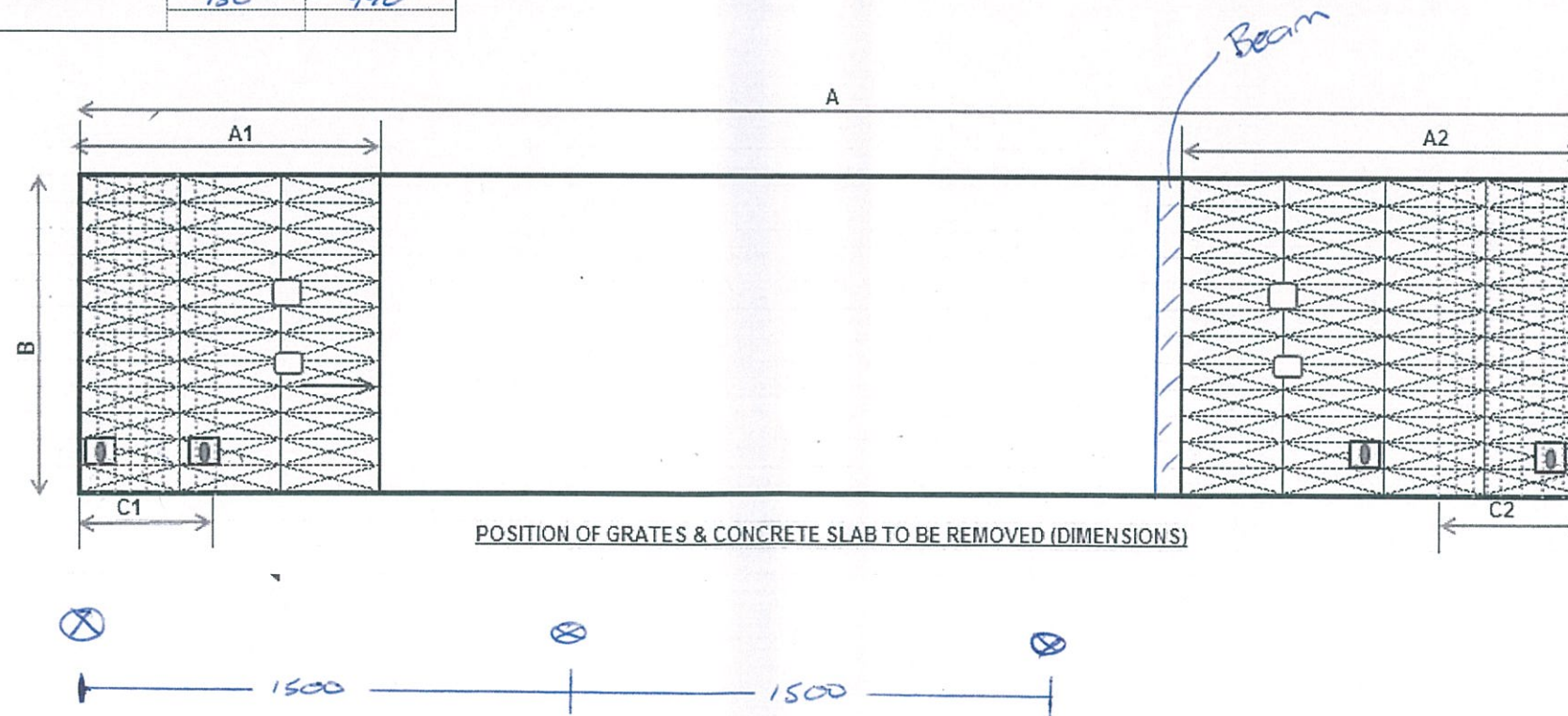
PUMP STATION :	PMU12	
PIT (DIMENSIONS)	A	B
	6520	990
GRATE DIMENSIONS	A1	B
	1150	990
	A2	B
	750	990
CONCRETE SLAB REMOVAL	C1	B
	2450	990
	C2	B
	950	990

EXISTING COVER WIDTH: 1070

EXISTING COVER LENGTH: 2220

EXISTING COVER LIFTING WEIGHT: 13 kg.

on old concrete pad



lifting slots to be adjusted accordingly.

WATER PUMP STATION

DIV 9

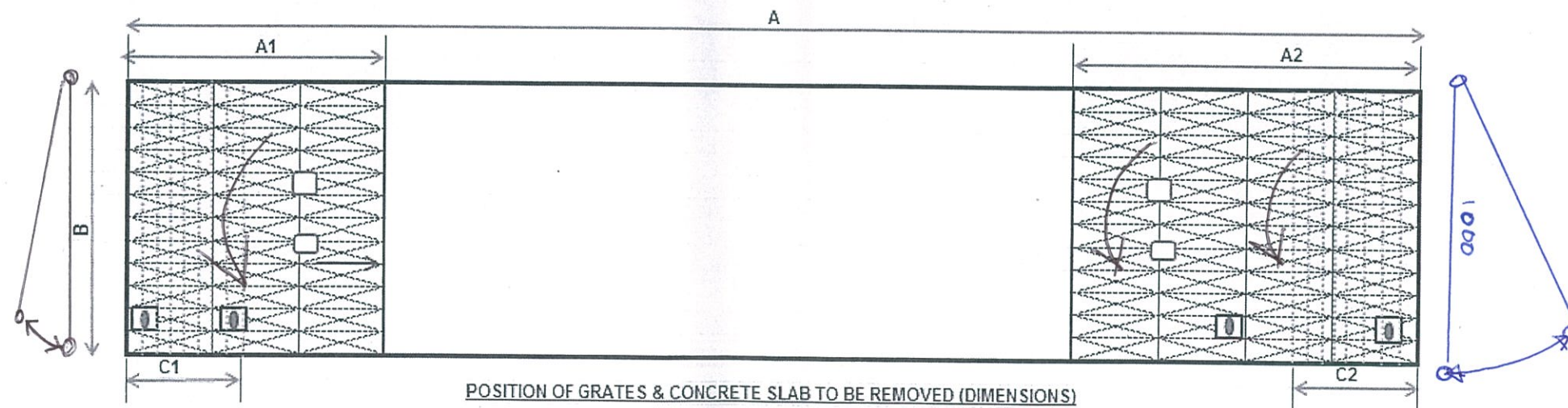
SUMMERHILL CRT. Mudgeeraba

PUMP STATION :	PMU4 (VI)	
PIT (DIMENSIONS)	A	B
	2000	1100
GRATE DIMENSIONS	A1	B
	A2	B
CONCRETE SLAB REMOVAL	C1	B
	C2	B

EXISTING COVER WIDTH: 1130
 EXISTING COVER LENGTH: 2030
 EXISTING COVER LIFTING WEIGHT: 15Kg

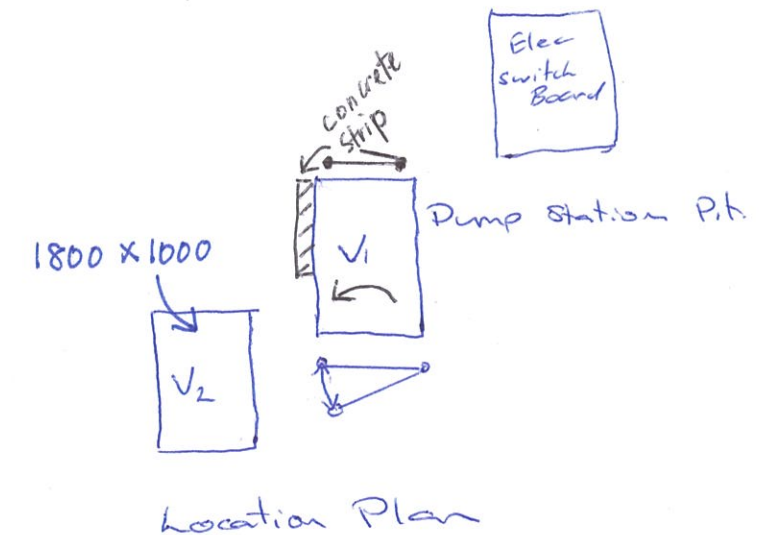
Handrails would suit this site, with gate at northern end of pit.

V2 remove hinges & screw down a new plate. (stronger)



WATER PUMP STATION

* NOTE OPENING DIRECTION OF COVERS / GRATES.



DIV 9

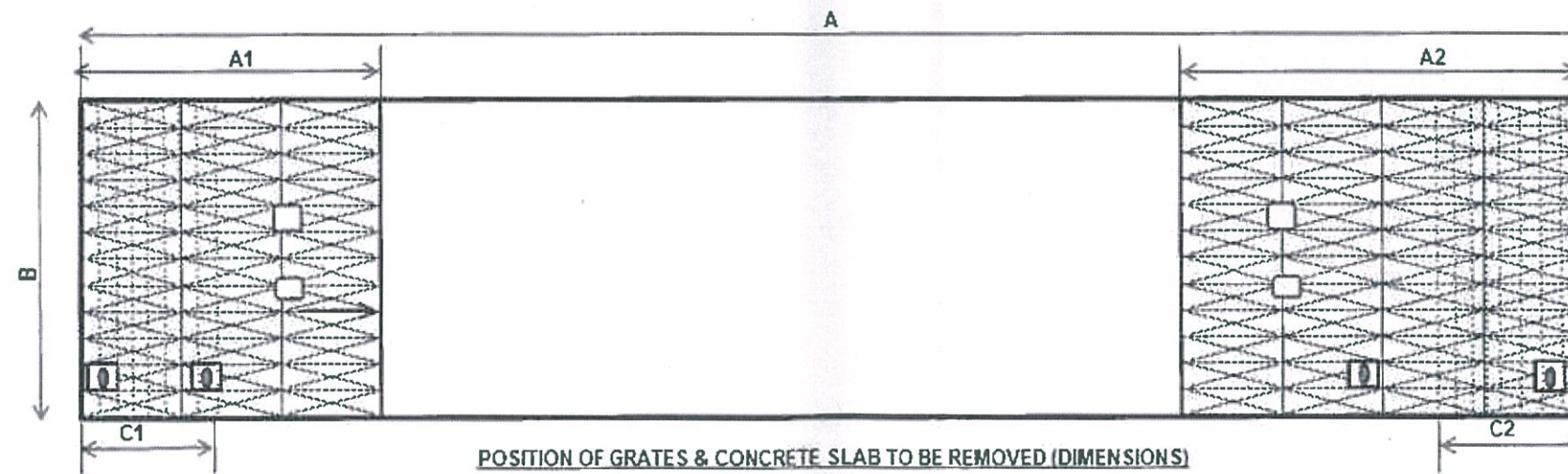
GLENNMORE DR. BONOGIN.

PUMP STATION :	P MU13	
PIT (DIMENSIONS)	A	B
	6370	1900
GRATE DIMENSIONS	A1	B
	1200	1900
	A2	B
	2000	1900
CONCRETE SLAB REMOVAL	C1	B
	C2	B

EXISTING COVER WIDTH: 1930

EXISTING COVER LENGTH: 6420

EXISTING COVER LIFTING WEIGHT: 17kg



WATER PUMP STATION

DIV 9

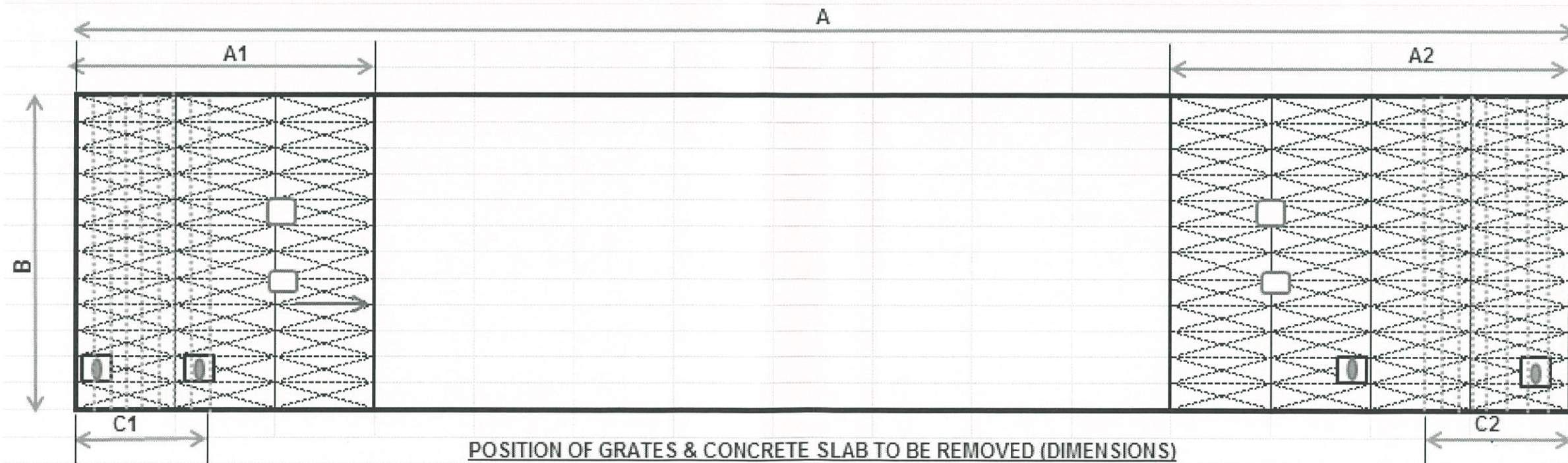
GLENROWAN DR, TALLAI

PUMP STATION :	PW6	
PIT (DIMENSIONS)	A	B
	5300	1200
GRATE DIMENSIONS	A1	B
	900	1200
	A2	B
	1000	1200
CONCRETE SLAB REMOVAL	C1	B
	N/A	N/A
	C2	B
	1300	1200

EXISTING COVER WIDTH: 1200

EXISTING COVER LENGTH: 4000

EXISTING COVER LIFTING WEIGHT: 16 kg.



DIV 9

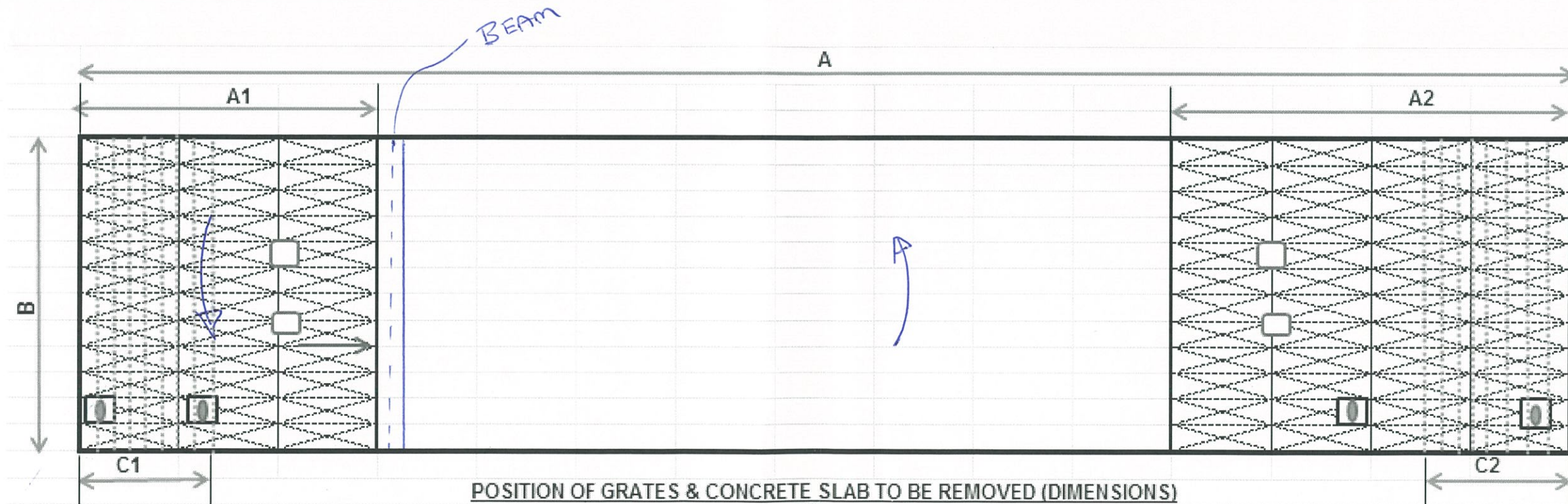
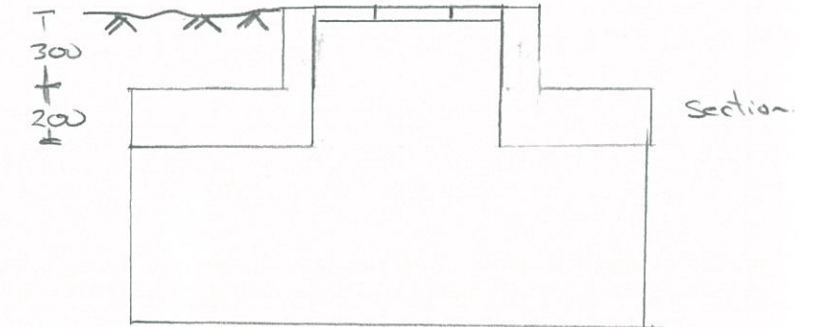
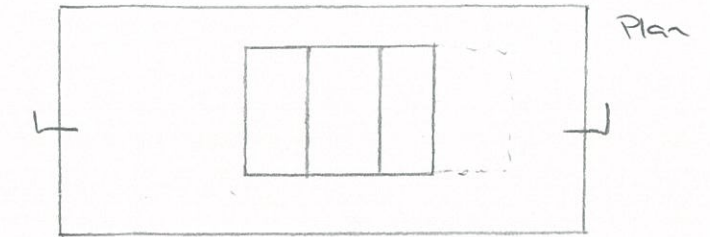
STRAWBERRY ROAD, MUDGEERABA.

PUMP STATION :	PMU8	
PIT (DIMENSIONS)	A	B
	5080	1100
GRATE DIMENSIONS	A1	B
	1300	1100
	A2	B
	1100	1100
CONCRETE SLAB REMOVAL	C1	B
	1300	1100
	C2	B
	1100	1100

EXISTING COVER WIDTH: 1100

EXISTING COVER LENGTH: 2730

EXISTING COVER LIFTING WEIGHT: 13 kg



Covers & grates at A1 open to the south
All other lids open to North.

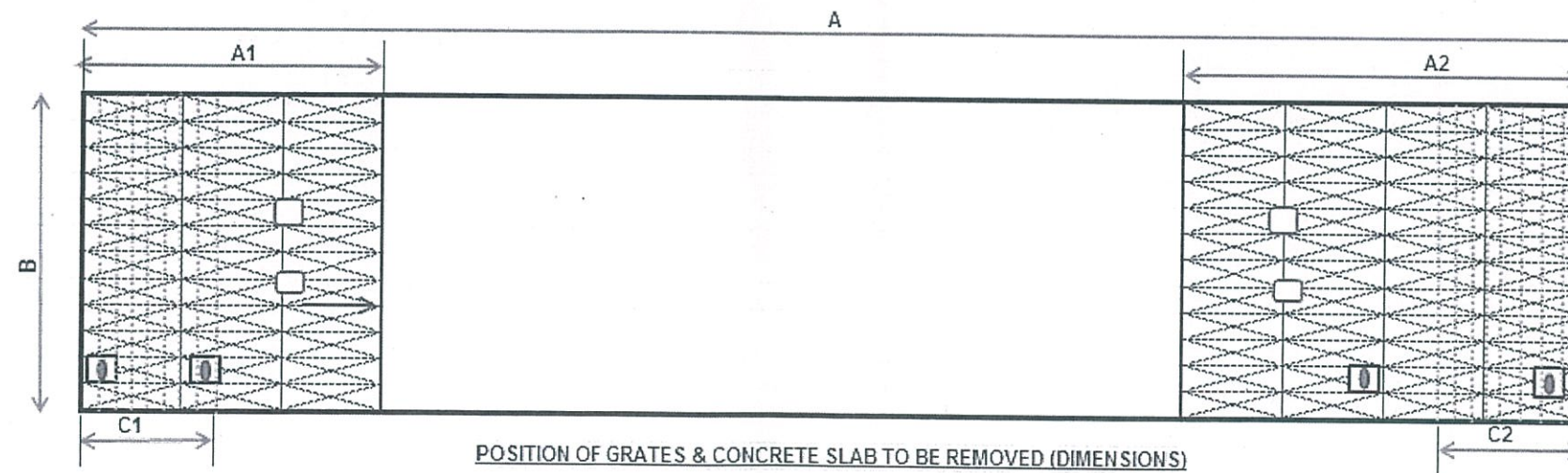
DIV 14



WATTLEBIRD CT, CURRUMBIN VALLEY.

PUMP STATION :	PT7	
PIT (DIMENSIONS)	A	B
	5050	1220
GRATE DIMENSIONS	A1	B
	1400	1200
	A2	B
	1000	1200
CONCRETE SLAB REMOVAL	C1	B
	C2	B

EXISTING COVER WIDTH: 1220 / 1360 with hinge plate
 EXISTING COVER LENGTH: 5050
 EXISTING COVER LIFTING WEIGHT: 14.5



WATER PUMP STATION

ATTACHMENT 4.1

SPS ON-MAINTENANCE INSPECTION SHEET

SPS FALL FROM HEIGHTS PROJECT (LG314/1211/16/103)

ON-MAINTENANCE ACCEPTANCE CERTIFICATE

SEWERAGE PUMPING STATION ID:

The following items have been checked:

Note: If X is indicated on any item, provide reason/explanation in the comments section of page.

✓ = yes

X = no

N/A = not applicable

	DESCRIPTION	✓	X	N/A
1	Covers, grates and handrail have been securely attached for well and valve chamber. <i>Eg. welding visually acceptable, nuts tightened.</i>			
2	Wet well covers and handrail gate, and, valve chamber covers and grates, opens to the correct orientation.			
3	Wet well cover correct to the following (dimensions, position, open angle, type, etc):			
a	Lift weight do not exceed 16Kg.			
b	Chequer plate to approved thickness.			
c	External frame, including sealling between frame/concrete.			
d	Perimeter frame			
e	Strengthening ribs.			
f	Anchor studs on external frame, including spacing.			
g	Manufacturer's plate & over 16Kg plate where appropriate..			
h	Lanyard chain.			
i	Full odour tight seal; including sealing underneath of frame.			
j	Angle of cover when open not exceeding 84 degrees.			
k	Correct number of keyway box, including position of drainhole..			
l	Bullet hinge, included fully welded.			
m	Beam across void does not hinder maintenance procedures of pump.			
4	Handrail correct on the following (dimensions, position,type etc):			
a	Height & Diameter of handrail, knee rail and stanchion.			
b	Thickness of toeboard.			
c	Height of toeboard.			
d	Gap between toeboard and ground.			
e	Distance between void edge to handrail.			
f	Distance between handrail gate and adjacent post.			
g	"Type" of toeboard correct.			
h	Clear opening width of handrail gate.			
i	Handrail gate can fully (up to 170 degrees) open without hinderance.			
5	Valve chamber cover and grate correct to the following (dimensions, position, angle, type).			
a	Lift weight do not exceed 16Kg.			
b	Chequer plate			
c	External frame			
d	Perimeter frame			
e	Strengthening ribs.			
f	Anchor studs on external frame, including spacing.			
g	Manufacturer's plate & over 16Kg plate where appropriate..			
h	Lanyard chain.			
i	Angle of grate when open not exceeding 84 degrees.			
j	Correct number of keyway box, including position of drainhole..			
k	Bullet hinge, included fully welded.			
l	Openings on grate at correct position.			

COMMENTS:

DRAFT

I the undersigned hereby confirm that the fall from height prevention devices for the above mentioned pumping station is installed according to Contract LG314/1211/15/093, including the specifications, standard and design drawings and all Superintendent approved modifications thereof. *Note: Inspection by the RPEQ before certification of the as-constructed drawing may be carried out during this on-maintenance acceptance certificate inspection exercise.*

Name:

Date:

Contractor's Representative Signature:

Clearance is hereby granted for removal of tagging and temporary fencing:

Name:

Date:

Superintendent's Representative Signature:

ATTACHMENT 4.2

WPS ON-MAINTENANCE INSPECTION SHEET

SPS FALL FROM HEIGHTS PROJECT (LG314/1211/16/103)

ON-MAINTENANCE ACCEPTANCE CERTIFICATE

WATER PUMPING STATION ID:

The following items have been checked:

Note: If X is indicated on any item, provide reason/explanation in the comments section of page.

✓ = yes

X = no

N/A = not applicable

	DESCRIPTION	✓	X	N/A
1	Covers and grates have been securely fixed. <i>Eg. welding visually acceptable, nuts tightened.</i>			
2	Covers open to the correct orientation.			
3	Covers to correct thickness.			
3	Covers to correct width.			
a	Covers to correct weight.			
	Chequer plate covering correct area.			
b	Chequer plate to correct thickness.			
c	Perimeter frame to correct size.			
d	Padlock box to correct dimensions.			
e	Padlock tongue in box placed in correct position.			
f	Padlock box to correct dimensions.			
g	Manufacturer's plate & over 16Kg plate where appropriate.			
h				
i				
j	Angle of cover when open to specified angle.			
k	Correct number of keyway box, including position of drainhole..			
l	Bullet hinge, included fully welded.			
m	Beam across void does not hinder maintenance procedures of pump.			
4				
a				
b				
c				
d				
e				
f				
g				
h				
i				
5				
a				
b				
c				
d				
e				
f				
g				
h				
i				
j				
k				
l				

COMMENTS:

DRAFT

I the undersigned hereby confirm that the fall from height prevention devices for the above mentioned pumping station is installed according to Contract LG314/1211/15/093, including the specifications, standard and design drawings and all Superintendent approved modifications thereof. *Note: Inspection by the RPEQ before certification of the as-constructed drawing may be carried out during this on-maintenance acceptance certificate inspection exercise.*

Contractor's Representative Name:

Contractor's Representative Signature:

Date:

Clearance is hereby granted for removal of tagging and temporary fencing:

Superintendent's Representative Name:

Superintendent's Representative Signature:

Date:

ATTACHMENT 5.1

SPS SITE PHOTOGRAPHS

SITE PHOTOGRAPHS

SHEET 1 OF 28

GROUP 1 SPS SITES



DA6: HALFWAYDR, ORMEAU.



DA8: BURNSIDE RD, YATALA.



DA9: NOTAR DR, ORMEAU.



OR1: GAWAIR DR, ORMEAU.



PA12: WARRABAH CL, PIMPAMA.



PA9: FOXWELL ROAD COOMERA

GROUP 2 SPS SITES



D64: MELOSTOMA WAY, ARUNDEL



D65: MADASIN CL, ARUNDEL.



OX22: HELENSVALE RD, HELENSVALE.



OX25: OXFORD-SOUTHPORT RD, OXFORD.



OX45: KOPPS RD, OXFORD.



UC14: RUSH CUTLER AVE, OXFORD.



OX21: MONTEREY KEYS DRIVE, HELENSVALE.



D60: MALTRAVERS DR, ARUNDEL



OX27: DALLEY PARK RD, HELENSVALE.

GROUP2 SPS SITES



OX44: CASUARINA WAY, HELENSVALE



UC20: GLENVIEW ROAD, UPPER COOMERA



UC1: TAMBORINE/OXENFORD ROAD, UPPER COOMERA.

GROUP 3 SPS SITES



CO1: THE PARKWAY, HOPE ISLAND.



CO3: SANTA BARBARA RD, HOPE ISLAND.



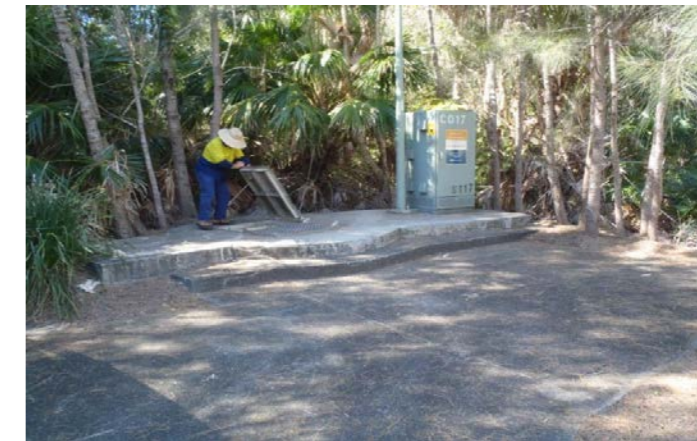
CO6: PINAROO ST, HOPE ISLAND.



CO7: BABIRRA ST, HOPE ISLAND.



CO11: CASEYS RD, HOPE ISLAND.



CO17: SOLO PLACE, COOMERA.



CO18: CONDOR DR, COOMERA.



CO23: SHEEHAN DR, COOMERA.



D26: RASON WAY, COOMBABAH.

GROUP 3 SPS SITES



D36: TEAL AVE/ESPLANE, PARADISE POINT.



D37: PARADISE PDE, PARADISE POINT.



D38: THE SOVEREIGN MILE, PARADISE POINT.



CO8: BABIRRA ST, HOPEISLAND.



CO15: BEATTIE RD, COOMERA.



CO21: SICKLE AVE, HOPE ISLAND.



OX9: HOPE ISLAND RD, HOPE ISLAND.



D17: MORALA AVE, RUNWAY BAY.



D63: KING ARTHURS CT, PARADISE POINT.

GROUP 3 SPS SITES



D67: KING CHARLES DR, PARADISE POINT.



D68: ROYAL ALBERT CR, PARADISE POINT.

GROUP 4 SPS SITES



D13: BATVIEW ST, RUNWAY BAY.



D16: STRADBROKE ST, BIGGERA WATERS.



D18: WHITING ST, LABRADOR.



D44: DOG POUND, COOMBABAH.



D54: PINE RIDGE RD, BIGGERA WATERS.



D56: CLEANAWAY DEPOT CAR PARK, ARUNDEL.



D9: BRISBANE RD, LABRADOR.



D10: CABARITA ST, BIGGERA WATERS.



D45: COOMBABAH RD, BIGGERA WATERS.

GROUP 4 SPS SITES



D47: KENNY DR, LABRADOR



D57: BRISBANE RD, ARUNDEL.



D13: BATVIEW ST, RUNWAY BAY.

GROUP 5 SPS SITES



N4: NAPPER RD, ARUNDEL.



N17: RIVERWOOD DR, NERANG



N5: EVERS ST, NERANG.



N9: STATION ST, NERANG



UC18: MAUDSLAND RD, MAUDSLAND

GROUP 6 SPS SITES



D51: NAPPER RD, ARUNDEL.



A106: MUSGRAVE AVE, SOUTHPORT.

GROUP 7 SPS SITES



A28: SLATYER AVE, SOUTHPORT.



A13: BENOWA RD, SOUTHPORT.



A21: KEN RUSSELL CT, BUNDALL.



A67: FRIGO CT, BENOWA.



A39: WATERWAYS DR, MAIN BEACH.

A38: SEAWORLD DR, MAIN BEACH.

GROUP 8 SPS SITES



SP50: PALM MEADOWS DR, CARRARA.



SP52: SANTA CRUZ BLVD, CLEAR ISLAND WATERS



W2: HICKEY WAY, CARRARA.



W25: PALM MEADOWS DR, CARRARA.



W26: PALM MEADOWS DR, CARRARA



W52: BRIMINGHAM DR, CARRARA.



W46: KINGARRY CT, MERRIMAC.



W57: NERANG BROADBEACH RD, CARRARA.



A98: REED ST, ASHMORE.

GROUP 8 SPS SITES



W1: NIELSENS RD, CARRARA.



W28: SPALL ST, CARRARA

GROUP 9 SPS SITES



W42: RUSH WORTH ST, WORONGARY ST, WORONGARY.

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

GROUP 10 SPS SITES



SP7: CYPRESS DR, BROADBEACH WATERS.



A100: ROSSER PARK, ASHMORE.



A104: SIR BRUCE BLVD, BENOWA.



GROUP 11 SPS SITES



SS27: CHATSWOOD DR, ROBINA.



SS34: MORINGTON TCE, ROBINA.



SS39: HIGH SCHOOL RD, ROBINA.



SS63: CHELTENHAM DR, ROBINA



SS75: CHELTENHAM DR, ROBINA.

GROUP 12 SPS SITES



SS12: MANKIN AVE, BURLEIGH WATERS.



B40: GOLD COAST HWY, BURLEIGH WATERS.



B55: JUSTIN PARK, BURLEIGH HEADS.



SP37: ALEC AVE, MERMAID WATERS.



SP38: KARBUNYA ST, MERMAID WATERS.



B39: LONDON CT, MIAMI.



SS13: ORR PLACE, BURLEIGH WATERS.



SS14: BARON AVE, BURLEIGH WATERS.



B38: CNR TOWNSHIP DR & TSIPURA DR.

GROUP 12 SPS SITES



B31: SURF ST, MERMAID BEACH.



SS48: SERVILE CIRCUIT, BURLEIGH WATERS.



SS49: REEDY CREEK RD, BURLEIGH WATERS.

GROUP 13 SPS SITES



C25: CASUARINA DR, ELANORA.



B13: TALLERBUDGERA FITNESS CAMP, PALM BEACH.



B26: PARNKI PDE, PALM BEACH.



B52: MALLAWAH DR, PALM BEACH.



B53: MYRTLE CT, PALM BEACH.



C7: MCGARTH DR, ELANORA.



C5: MURTHA DR, ELANORA.



C6: MURTHA DR, ELANORA.



B9: NINETEENTH AVE, ELANORA.

GROUP 13 SPS SITES



B10: REES CT, ELANORA.



C21: NINETEENTH AVE, ELANORA.



C26: WATER GUM ST, ELANORA.



C32: BEAEA DR, ELONARA.



B16: LAGUNA PDE, PALM BEACH.



SS43: GLAUCA ST, ANDREWS.

GROUP 14 SPS SITES



C11: QUEENSBURY AVE, CURRUMBIN WATERS.



C9: NOJEE ST, CURRUMBIN WATERS.

ATTACHMENT 5.2

SPS LOCATION PLANS

Refer to the following Dropbox link

<https://www.dropbox.com/sh/39maolsmaa3aq7c/AACHV7WZr3FEihgJKSnR7PNza?dl=0>

https://www.dropbox.com/sh/1z57dsp2q2dtkmm/AAACwJSfRVnE5GUQ_SSR5Cgka?dl=0

<https://www.dropbox.com/sh/24daymqcnr8fvnh/AACPQk6KPUYulF6p13TK1bV5a?dl=0>

<https://www.dropbox.com/sh/cc3gww6sfbhjinkw/AABf9J-FbDe0r4wpQAwXJLpya?dl=0>

ATTACHMENT 6.1

WPS SITE PHOTOGRAPHS

**PHOTOGRAPHS OF EXISTING WATER
PUMPING STATIONS AND SITE LOCATION PLANS.**

- SHEET 1 OF 6 : TITLE PAGE**
- SHEET 2 OF 6: PHOTOGRAPHS OF EXISTING PUMPING STATIONS.**
- SHEET 3 OF 6 : PHOTOGRAPHS OF EXISTING PUMPING STATIONS.**
- SHEET 4 OF 6: SITE LOCATION PLAN**
- SHEET 5 OF 6 : SITE LOCATION PLAN**
- SHEET 6 OF 6 : SITE LOCATION PLAN**

**ATTACHMENT 5A
PHOTOGRAPHS OF EXISTING WPS**



PUC2 - WIMBOLDON WAY, OXFORD..



PN2 - CASTLE HILL DR, GAVEN.



PMO3 - KINGSWAY DR, MOLENDINAR



PMU2 - EARLE CRT, TALLAI.



PMU4 - SUMMERHILL CRT, MUDGEERABA.



MU13 - GLENMORE DRIVE, BONOGIN



PW6 - GLENROWAN DR, TALLAI..



PMU8 - STRAWBERRY ROAD, MUDGEERABA.



PT7 - WATTLEBIRD CT, CURRUMBIN.



PG2 - NATHAN ROAD, NERANG



PG2 - NATHAN ROAD, NERANG

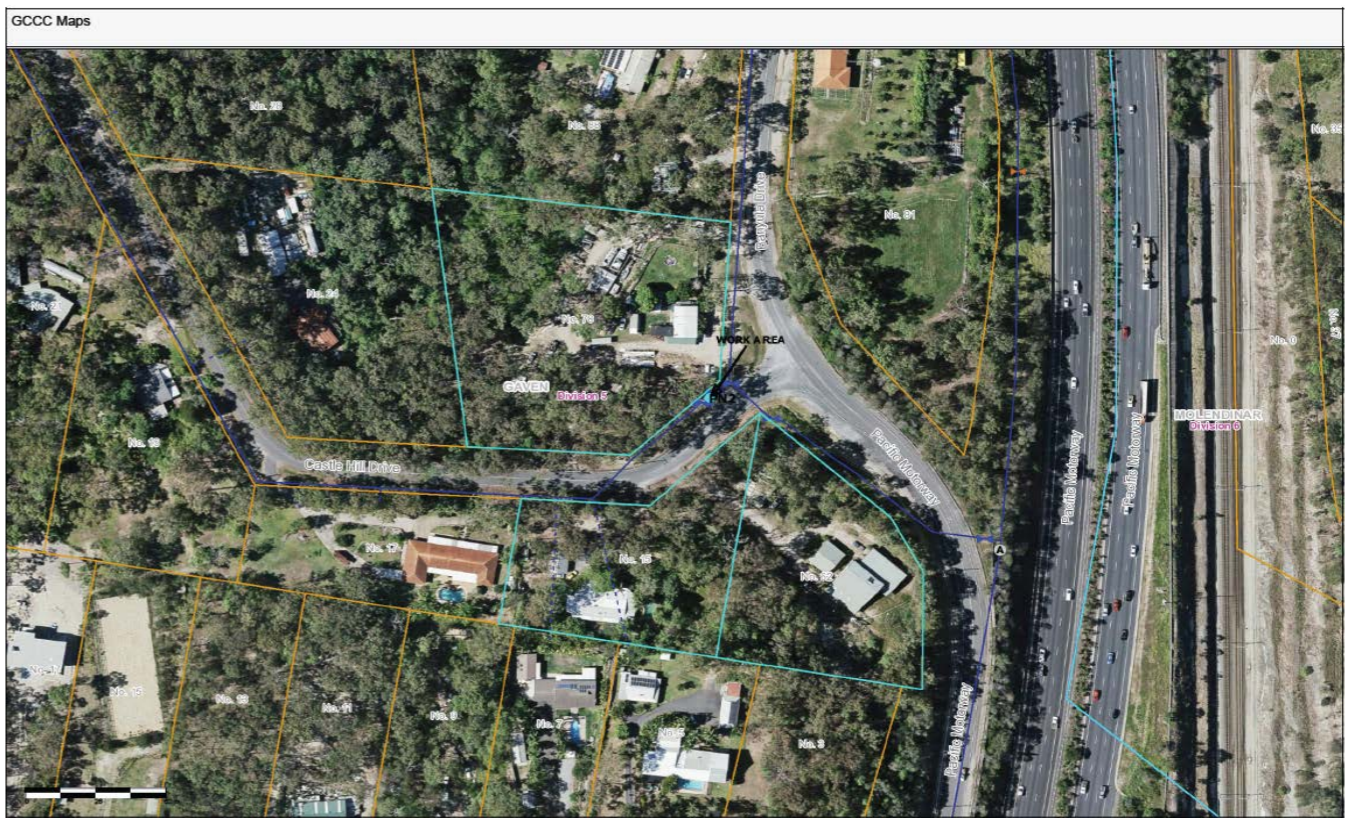
ATTACHMENT 6.2

WPS LOCATION PLANS

ATTACHMENT 5B
WPS SITE LOCATION PLANS



PUC2 - WIMBELDON WAY, OXFENFORD..



PN2 - CASTLE HILL DR, GAVEN.



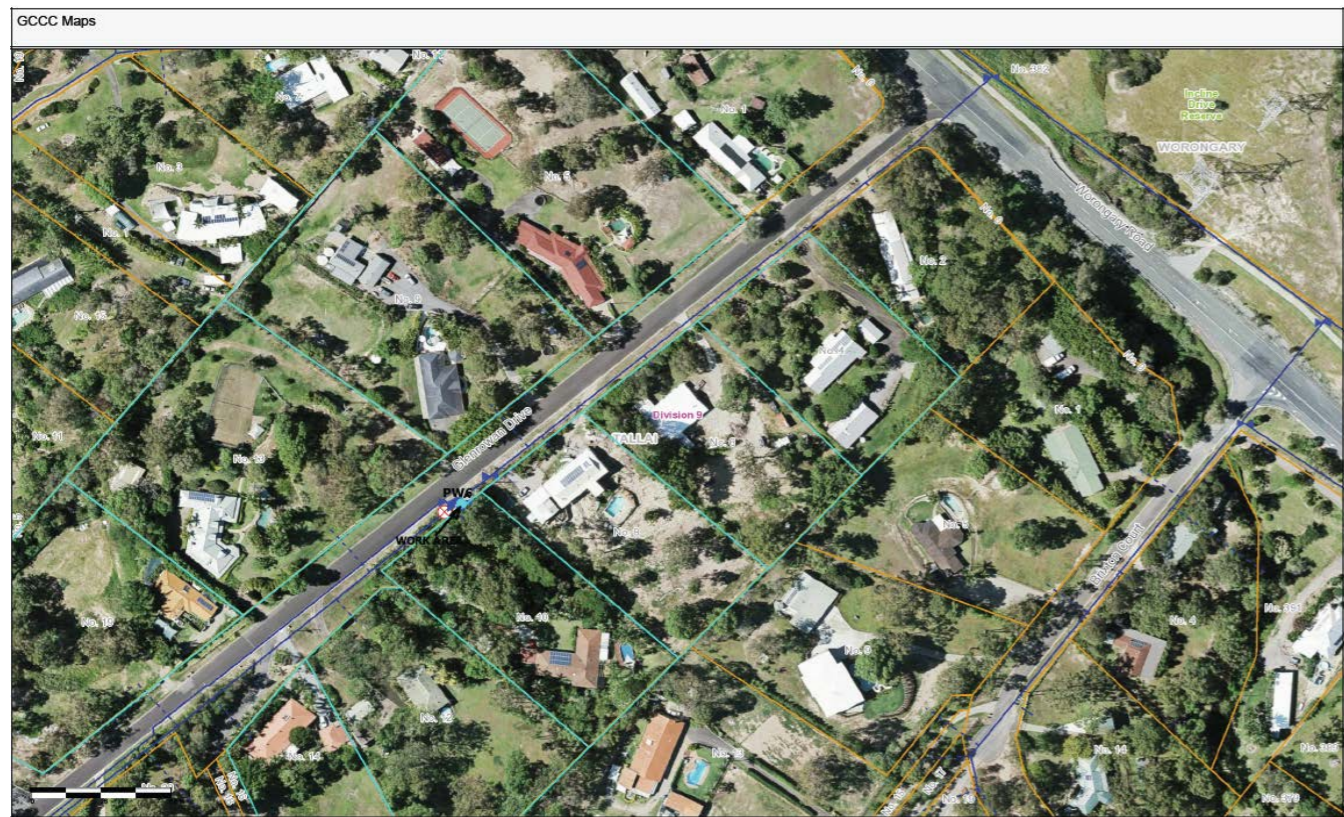
PMU2 - EARLE CRT, TALLAI.



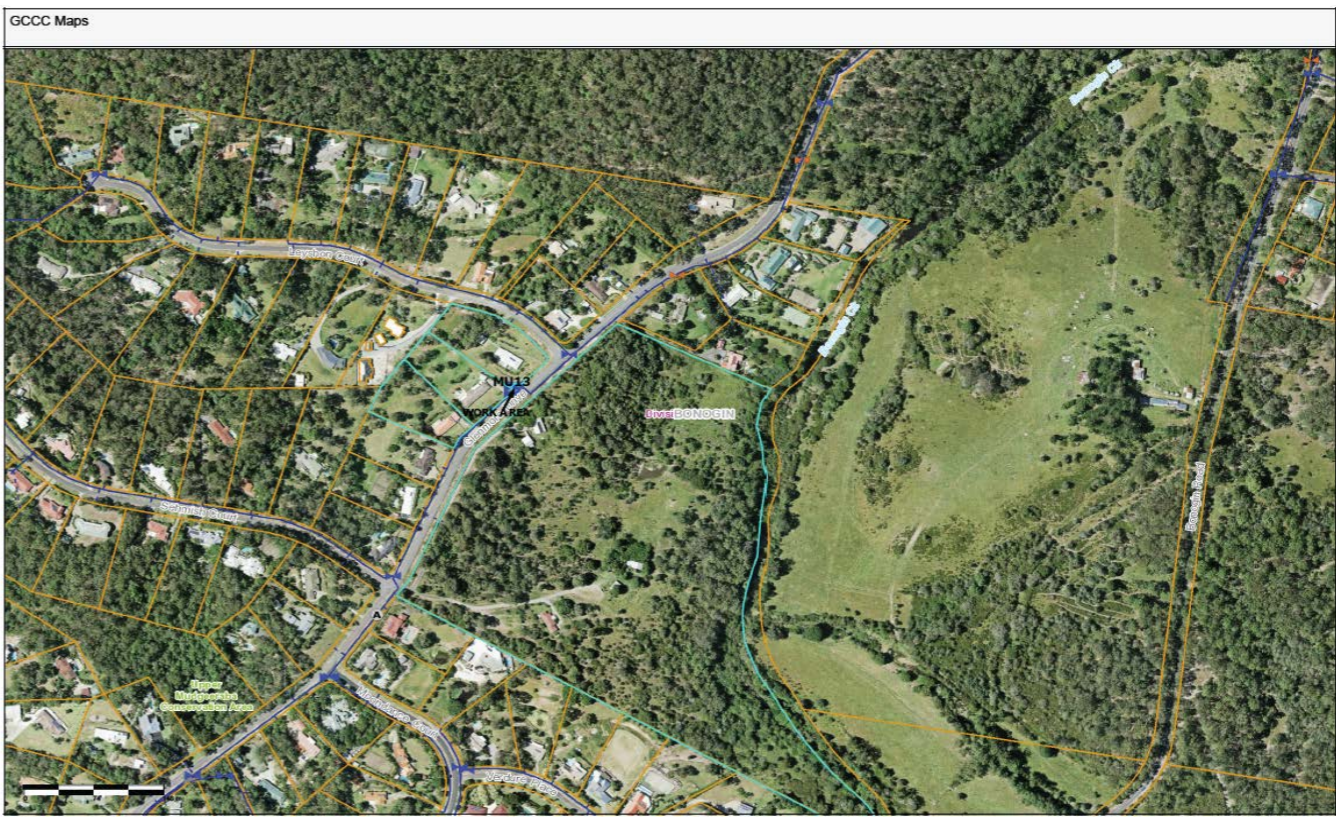
PMU8 - STRAWBERRY ROAD, MUDGEERABA

ATTACHMENT 5B

ATTACHMENT 5B
SITE LOCATION PLANS WPS



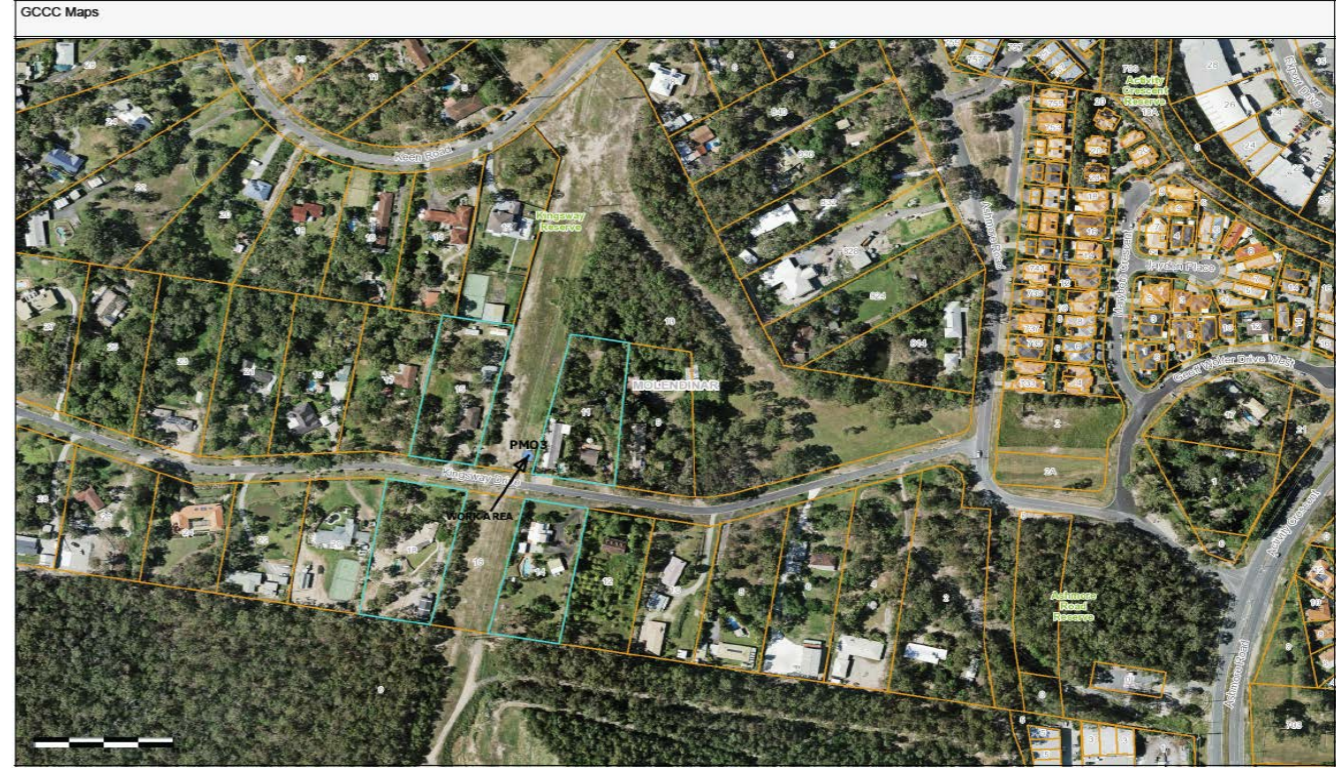
PW6 - GLENROWAN DR, TALLAI.



MU13 - GLENMORE DRIVE, BONOGIN

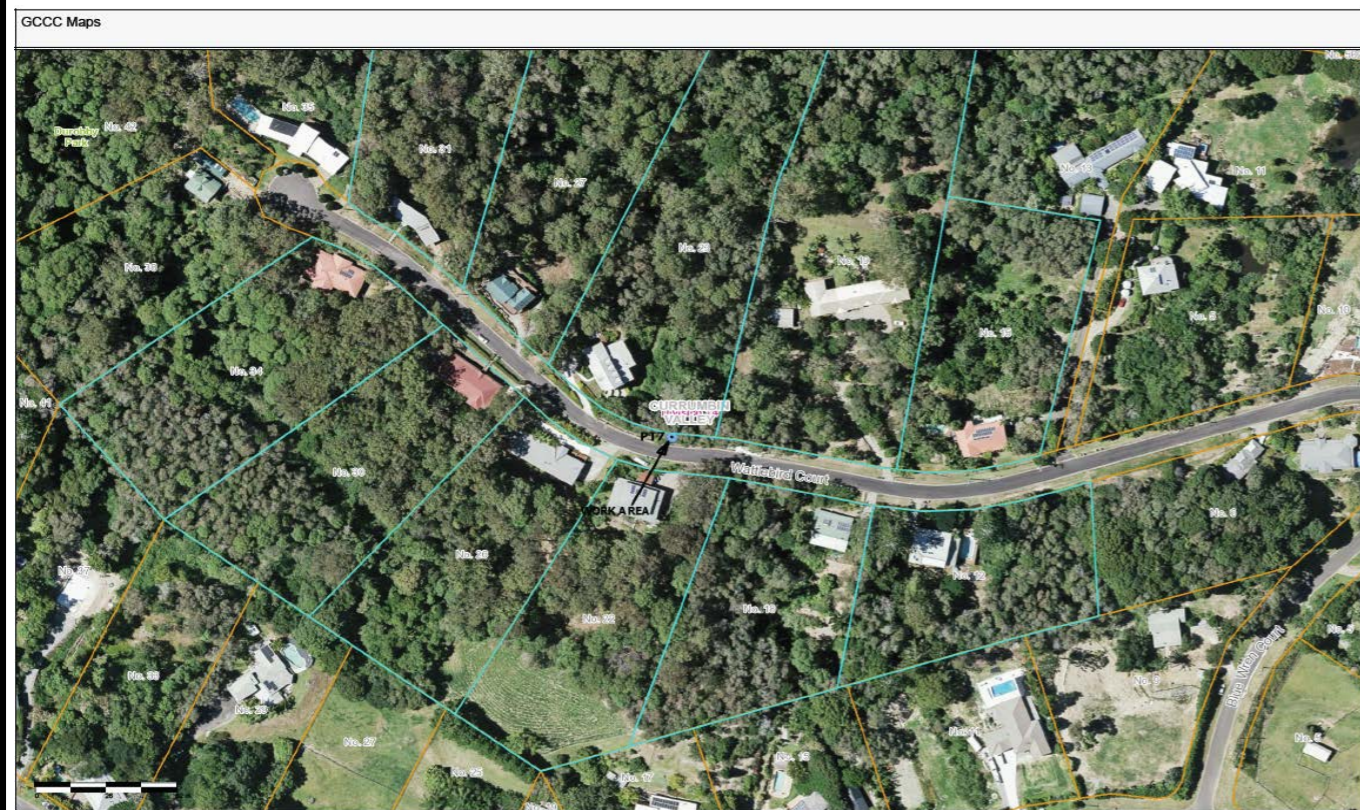


PMU4 - SUMMERHILL CRT, MUDGEERABA.

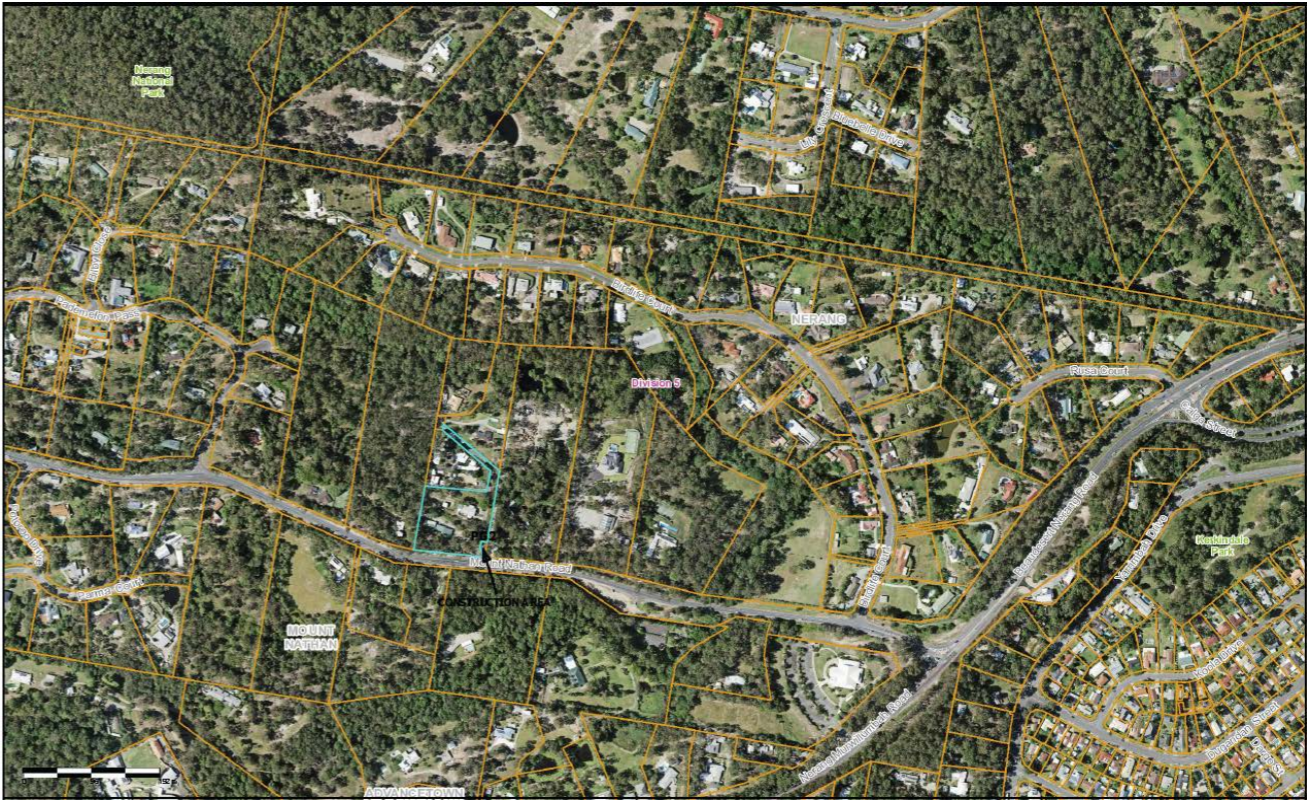


PMO3 - KINGSWAY DR, MOLENDINAR.

ATTACHMENT 5B
SITE LOCATION PLANS WPS



PT7 - WATTLEBIRD CT, CURRUMBIN VALLEY.



PG2 - NATHAN ROAD, NERANG.