

Ref: A0123-B2-VWA-197

7th April 2011

Mr. Phil Narezzi
Veolia Water Australia
Level 4, Bay Centre,
65 Pirrama Road
Pyrmont NSW 2009

Dear Phil,

Re: ROSEHILL / CAMELLIA RECYCLED WATER SCHEME
Proposed Modification to Rosehill Recycled Water Scheme
Major Project Application No.: 07_0121 - As-Built Building Heights

Attachments:

Attachment #1: DOP Letter to Aquanet dated 11th February 2011
Attachment #2: Aquanet Letter to VWA dated 21st February 2011
Attachment #3: VWS Letter to VWA, A0123-B2-VWA-183 dated 13th January 2011
Attachment #4: Degasser Plan View, A0123-H-5014-03 Rev E1
Attachment #5: Reverse Osmosis Permeate Collection Tank Plan View, A0123-M-6310-50 Rev B
Attachment #6: Process Building Plan View, A0123-H-2000-04 Rev B1
Attachment #7: Surveyors Report 9091 033 Tank Levels

With reference to above attachment #1, VWS responds as follows to the specific advice listed in the DOP letter, i.e. provide plans and an explanation of why the height limits were not complied with

Item #1 – Provision of Plans & Explanation of why the height limits were not complied with

1. As-built Status

As previously advised in letter from VWS to VWA, A0123-B2-VWA-183, dated 13th January 2011, Three plant items have been constructed higher than the approved DoP height. These are detailed below along with the relevant engineering plans and drawings for the items in question:

Out-of-Spec Item #1: Degasser Tower

Reference Plans:	1. Degasser Plan View A0123-H-5014-03 Rev E1 2. Surveyors Report 9091 033 Tank Levels
Allowable Height:	15.9m
As-built Height:	16.03m
Deviation:	0.13m

Out-of-Spec Item #2: Reverse Osmosis Permeate Collection Tank

Reference Plans:	1. Reverse Osmosis Permeate Collection Tank Plan View A0123-M-6310-50 Rev B 2. Surveyors Report 9091 033 Tank Levels
Allowable Height:	12.0m
As-built Height:	12.175m
Deviation:	0.175m

Out-of-Spec Item #3: Process Building

Reference Plans:	1. Process Building Plan View A0123-H-2000-04 Rev B1 2. Surveyors Report 9091 033 Tank Levels
Allowable Height:	18.4m
As-built Height:	18.3m (vent-pipe is 1.5m in excess of this)
Deviation:	1.5 m for the vent pipe only

3. Causative Factors

The deviations between the as-built heights and allowable heights were caused by a number of issues:

- Changes to critical personnel during the project, including 3 different Project Managers being engaged between January 2010 and April 2010, resulted in inadequate communication between parties.
- Vendor standard dimensions for the above equipment pieces were not available at the time submissions were made to the DOP. When orders were placed for equipment, a cross check of the vendor equipment size versus the approved height was not undertaken to full effect against DOP requirements.

4. Impact Assessment

Impact of all items is considered to be low, as per the details provided in A0123-B2-VWA-183.

I trust this provides enough information to satisfy the DOP request and to enable Aquanet to proceed to submit a request to modify the project in accordance with s75W of the *Environmental Planning and Assessment Act 1979*. Please do not hesitate to contact me should any item require discussion or should any additional information be required.

Yours sincerely,

Veolia Water Solutions & Technologies (Australia) Pty Ltd

Regards,



Tom Roche
Project Manager,
Level 4, Bay Centre,
65 Pirrama Road
PYRMONT NSW 2009
Australia

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Mob: +61 (0) 438 880 470
Email: tom.roche@veoliawater.com



Planning

Contact: Belinda Scott
Phone: (02) 9228 6472
Fax: (02) 9228 6355
Email: belinda.scott@planning.nsw.gov.au

Our ref: 10/21092

Mr Colin Thompson
Business Manager
AquaNet Sydney Pty Ltd
100 Bennelong Parkway
Homebush Bay NSW 2127

Dear Mr Thompson

Subject: Rosehill Recycled Water Scheme (MP 07_0121) – Mod 1

Thank you for your letter, dated 25 January 2011, confirming the heights of structures built on the recycled water treatment plant site at Fairfield. The Department's also notes your email, dated 31 January 2011, confirming that only 70% designs for the surface facilities at the recycled water treatment plant were submitted to the Department.

A review of the information provided in your letter and the Conditions of Approval, indicates that the heights as surveyed differ from the heights specified in Table 1 of Condition 2.37. As such the Department's view is that those structures exceeding the heights specified in Condition 2.37 are not generally in accordance with the conditions of approval.

To address this non-compliance you are advised to submit a request to modify the project in accordance with s75W of the *Environmental Planning and Assessment Act 1979* to permit the use of these structures at the height built. Your request will need to be accompanied with plans together with an explanation of why the height limits were not complied with.

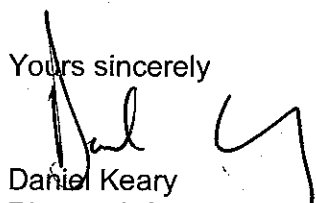
You are also advised that a Building Certificate will also be required from Fairfield Council to regularise the structures.

The Department has reviewed this non-compliance in accordance with its published Compliance Policy and Breach Management Guidelines, which apply to all projects approved by the Minister for Planning. As the breach is of low severity and does not appear to pose a significant environmental impact, the Department has determined it to be of low overall significance. Accordingly, the Department has determined on this occasion to issue AquaNet Sydney Pty Ltd with a warning that if further breaches of this nature occur a higher level of enforcement action would be considered, which may include a Penalty Notice or court action.

Therefore AquaNet's cooperation is sought to ensure the remainder of the project and any future projects of this nature are carried out in accordance with the conditions of the project approval.

The Department's contact officer for this project, Belinda Scott, can be contacted on (02) 9228 6472 or via email at Belinda.Scott@planning.nsw.gov.au. Please mark all correspondence regarding the proposal to the attention of the contact officer.

Yours sincerely


Daniel Keary
Director Infrastructure Projects
As delegate for the Director General

21 February 2011

Mr Phil Narezzi
Veolia Water Australia Pty Ltd
Level 4, Bay Centre,
65 Pirrama Road
Pyrmont NSW 2009

Dear Phil,

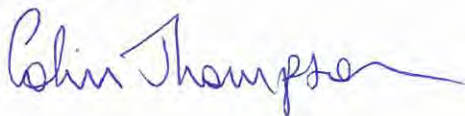
Re: Rosehill Camellia Recycled Water Treatment Plant - 1 East Pde (also known as Gale Pde), Fairfield (Site)

Further to our previous correspondence, I attach a notice from the NSW Department of Planning (**DOP**) dated 11 February in relation to height restrictions under the Project Approval and the non-compliance at the Site regarding the building.

Please review the attached notice and prepare the draft documentation contemplated in the letter for consideration and approval by AquaNet (**Modification Application**). Given the circumstances, it is reasonable for Veolia to pay AquaNet's cost in relation to the non-compliance (if any). We will use our reasonable endeavours to keep you informed of such costs. Presently, I do not expect that there will be any external costs if the draft Modification Application is satisfactory and the DOP accepts the Modification Application.

Regrettably, AquaNet has been issued with a formal warning by the DOP in connection with this height non-compliance. In the spirit of ensuring project success for all parties, please ensure there are no further violations of the Project Approval by Veolia.

Yours faithfully

A handwritten signature in blue ink that reads "Colin Thompson".

Colin Thompson
Business Manager
AquaNet Sydney Pty Limited
100 Bennelong Parkway
Homebush Bay NSW 2127

Ref: A0123-B2-VWA-183

13 January 2011

Mr. Phil Narezzi
Veolia Water Australia
Level 4, Bay Centre,
65 Pirrama Road
Pyrmont NSW 2009

Dear Phil,

Re: ROSEHILL / CAMELLIA RECYCLED WATER SCHEME
Department of Planning Building and Tank Heights Condition 2.37

With regards to the Department of Planning (DoP) Approval for Major Project Application 07_0121 for the Camellia and Rosehill Recycled Water Scheme, dated 01 June 2009 and subsequently modified on 01 April 2010, in particular clause 2.37 - Visual Amenity and Urban Design, the D&C Contractor notifies the Veolia Company of the as built heights of the process building and various tanks on the project site. A site survey was completed and information provided in December 2010.

With regards to Table 1 (Maximum Height of Surface Facilities) of clause 2.37 of the DoP approval, the as built heights are shown in the below table;

Item	Height Limit - per clause 2.37 of DoP Approval (mAHD)	Height Limit (including any access ladders, safety rails, roof ventilation apparatus - per clause 2.37 of DoP Approval (mAHD)	As built height from survey December 2010 (mAHD)	Comments
Recycled Water Storage Tank	15.1	16.3	13.88	Complies
Feed Balance Tank	14.7	16.0	13.67	Complies
Detention Tank	14.9	16.2	14.53	Complies
Filtration (Reverse Osmosis) Building	17.1	18.4	18.3 Building 19.8 Vent Pipe	Building OK Vent Pipe 1.5 m HIGHER (approximate)
Degasser	15.9	17.2	16.03	130 mm HIGHER (No access ladders or handrails applicable)
Flocculation Tank	13.5	14.7	N/A	Removed from scope
Reverse Osmosis Tank	13.6	14.9	13.3	Complies

Item	Height Limit - per clause 2.37 of DoP Approval	Height Limit (including any access ladders, safety rails, roof ventilation apparatus - per clause 2.37 of DoP Approval	As built height from survey December 2010	Comments
	(mAHD)	(mAHD)	(mAHD)	
Reverse Osmosis Permeate Collection Tank	12.0	13.2	12.175	175 mm HIGHER

Also attached are a series of photographs (refer attachment A) identifying the project site as viewed from a variety of locations around the project site including from North Street which is the street adjacent to the Northern side of the plant and on which four local residents houses are located.

In summary the above table indicates that with the plant layout (as per drawing A0123-M-0000-01 Issue A) that the tanks located adjacent to the residents of North Street are all in compliance with the heights specified in the DoP approval (ie feed balance tank, detention tank, recycled water storage tank). The reverse osmosis permeate collection tank is 175 mm higher than the DoP approval condition, however, it is noted that this tank is both located behind the recycled water storage tank and is lower in overall height than the recycled water storage tank and as such the reverse osmosis permeate collection tank is obscured from view when the plant is viewed from North Street. The degasser tower structure is 130 mm higher than the DoP approval, however, the location of the degasser structure (as per the layout drawing A0123-M-0000-01 Issue A) enables the degasser structure to be obscured from view when the plant is viewed from North Street.

Both the degasser structure and the reverse osmosis permeate collection tank areas are lower in height than the process building and, therefore, are completely obscured from view with the plant is viewed from the Southern side.

The process building structure at 18.4 metres is within the limits of the DoP approval, however, a small diameter plastic (PVC) vent extraction pipe from the administration building laboratory roof is estimated to be approximately 1.5 metres higher than the DoP approval limit. This small diameter plastic vent pipe can be indentified in image 1, 2 and 3 of attachment A. When viewing the plant from North Street this small plastic vent pipe is not clearly visible.

In conclusion, the D&C Contractor reviews these minor increases in height of equipment are of minimal impact to the overall visual amenity of the project site and requests a concession be issued by any relevant parties.

The D&C Contractor informs the Veolia Company of these matters and should the Veolia Company require further information on the above matters the D&C Contractor remains available for discussion. The D&C Contractor requests that the Veolia Company also provide this information to the Project Company, AquaNet.

The D&C Contractor awaits a response from the Veolia Company.

Yours faithfully

Veolia Water Solutions & Technologies (Australia) Pty Ltd

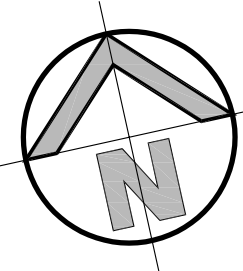
Charles Edworthy

Charles Edmiston

Contractor's Representative
Operations Manager

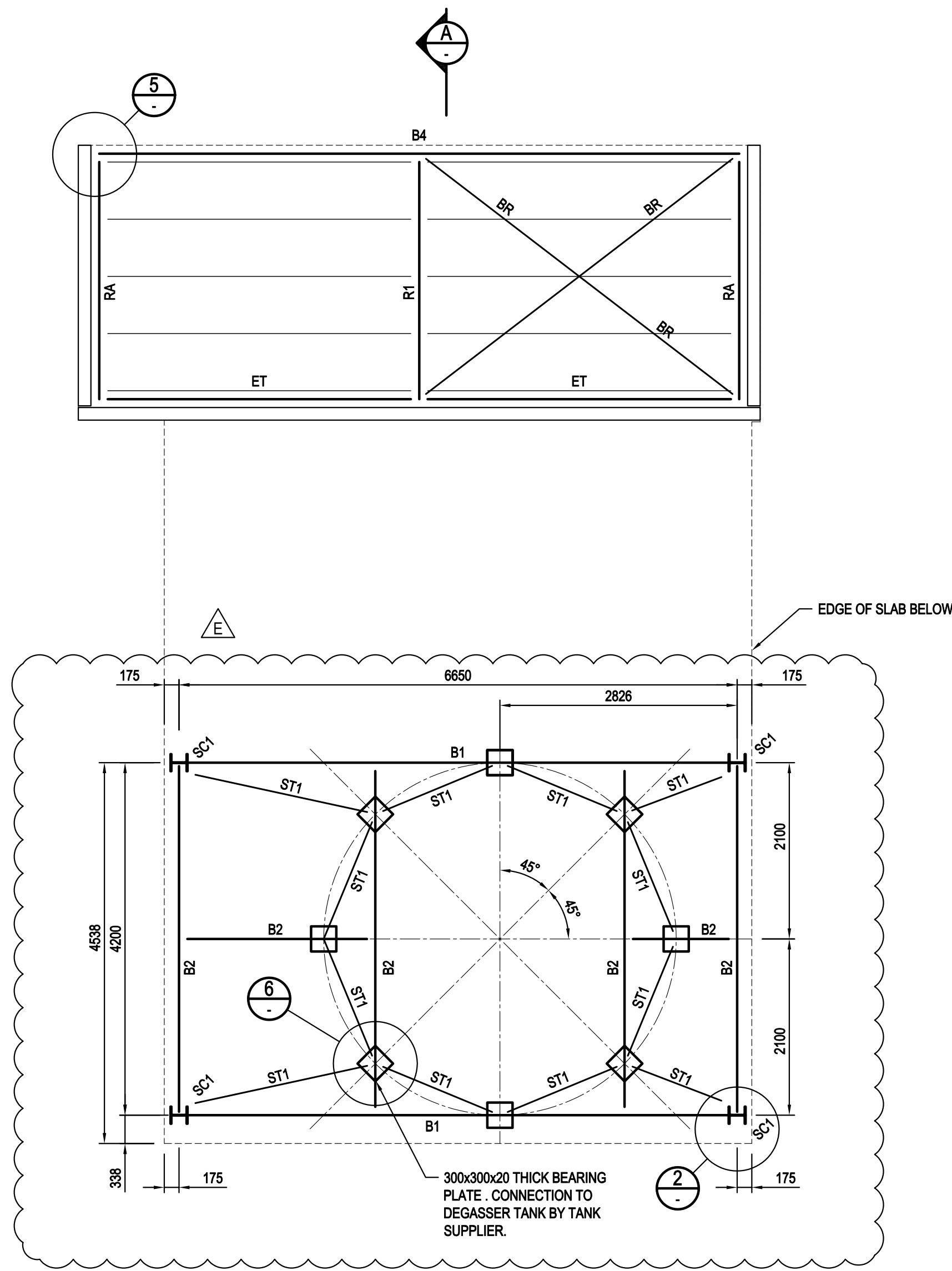
Attachments

1. Site Photos January 2011
2. Site Layout Drawing A0123-M-0000-01 Issue A



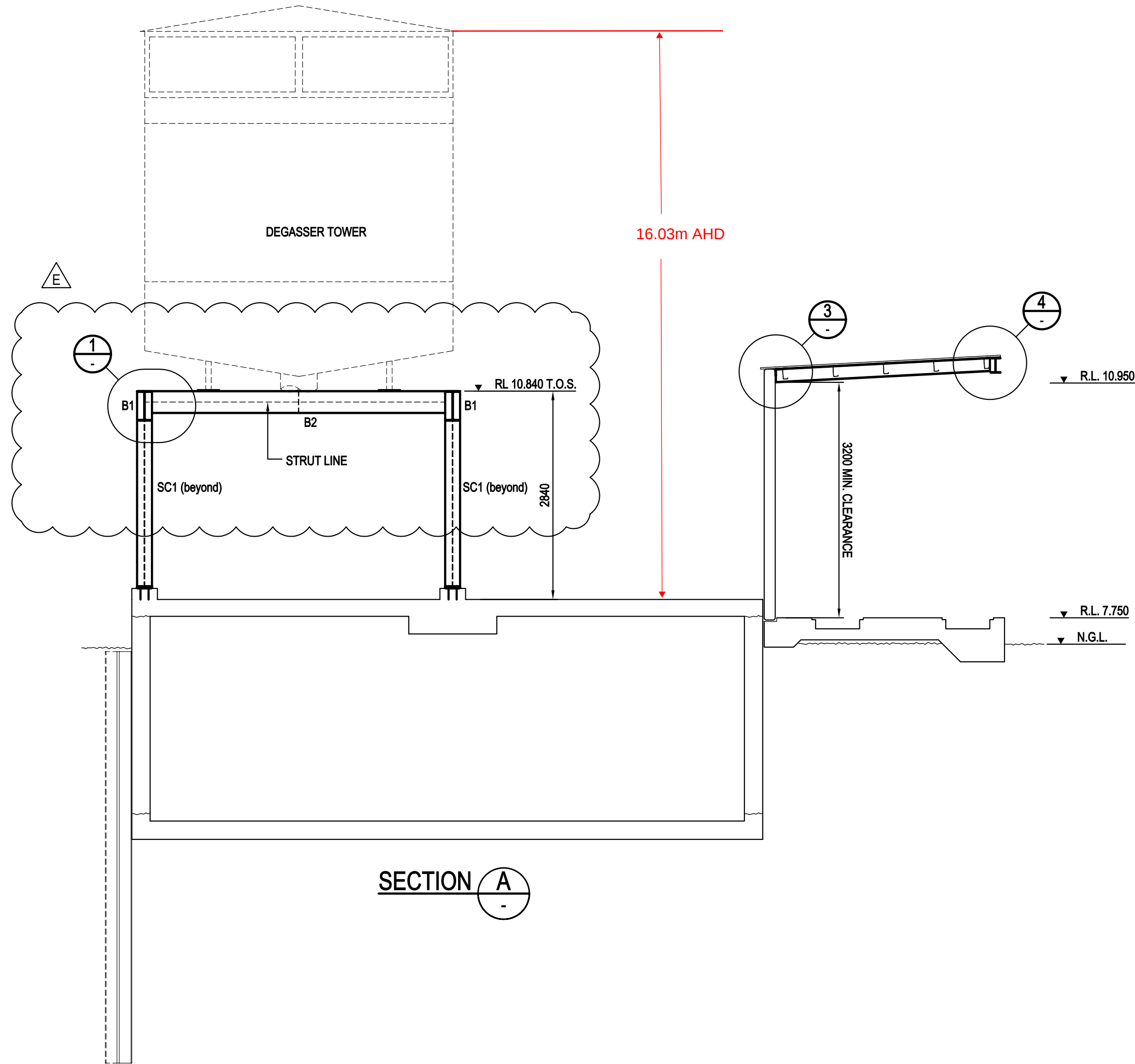
MEMBER SCHEDULE	
MEMBER TAG	MEMBER SIZE
RAFTERS	180 PFC GALVANISED
BEAMS	
B1	430 UB S4 GALVANISED
B2	350 UB S2 GALVANISED
STRUTS	
ST1	Ø114 x 3.0 CHS GALVANISED
COLUMNS	
SC1	200 UC 46 GALVANISED
BRACES	
BR	Ø20 ROD GALVANISED WITH TURNBUCKLE
ET	90 x 6 EA GALVANISED
RA	90 x 6 EA GALVANISED
PURLINS	
P1	CROSS PURLINS AT 800 mm CENTRES 800 mm END SPAN (SHEETING) 1 ROW OF BRIDGING

- NOTES:**
- FOR ALL GENERAL STEELWORK NOTES REFER CONSTRUCTION NOTES ON DRAWING 01.
 - REFER PANEL ELEVATIONS FOR FERRULE LOCATIONS.
 - ALL BOLTS FOR FERRULE CONNECTIONS SHALL BE GRADE 8.8S WITH 30mm MINIMUM ENGAGEMENT TO FERRULES.
 - ALL BOLTS FOR STEEL TO STEEL CONNECTIONS SHALL BE M20 GRADE 8.8S UNO.
 - ALL BRACE MEMBERS SHALL BE TIED TO EVERY SECOND PURLIN CROSSED WITH UNSTRETCHED STRAP TO PREVENT SAG.
 - PRE-CAMBERS TO ALL STRUCTURAL STEEL RAFTERS, TRUSSES AND PORTALS SHALL BE 5mm FOR EVERY 2000mm OF SPAN UNLESS NOTED OTHERWISE ON PLAN. (REFER LEGEND BELOW FOR DESIGNATION).
 - UNLESS NOTED OTHERWISE ALL EXTERNAL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANISED.
 - PROVIDE FIRE PROTECTION TO ALL STRUCTURAL STEEL ELEMENTS AS REQUIRED (REFER ARCHITECT'S DRAWINGS FOR FIRE RATING REQUIREMENTS).

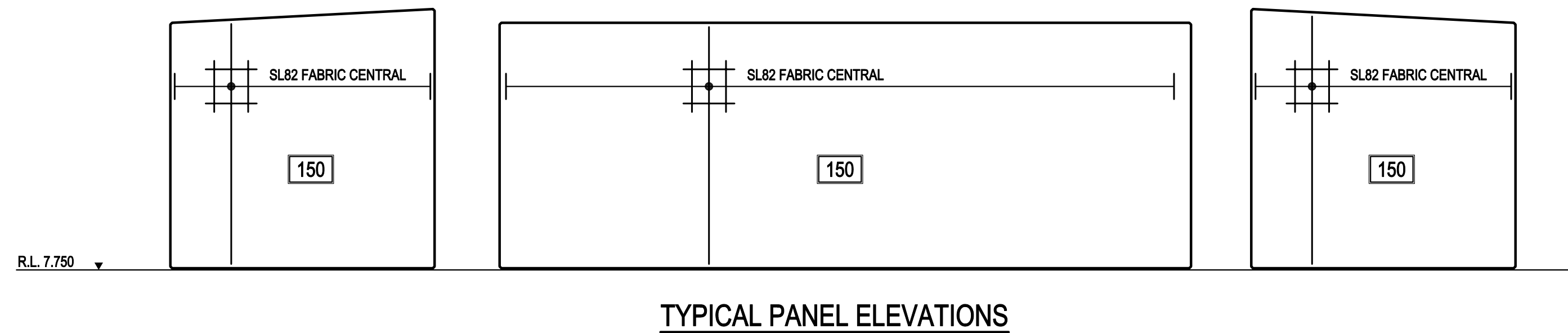


REGEN WASTE TANK/CHEMICAL BUND
STRUCTURAL STEEL MARKING PLAN

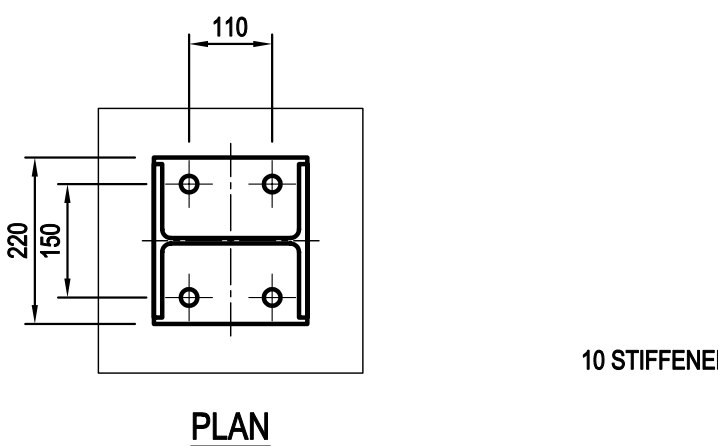
ALL PURLINS TO BE P1 U.N.O.



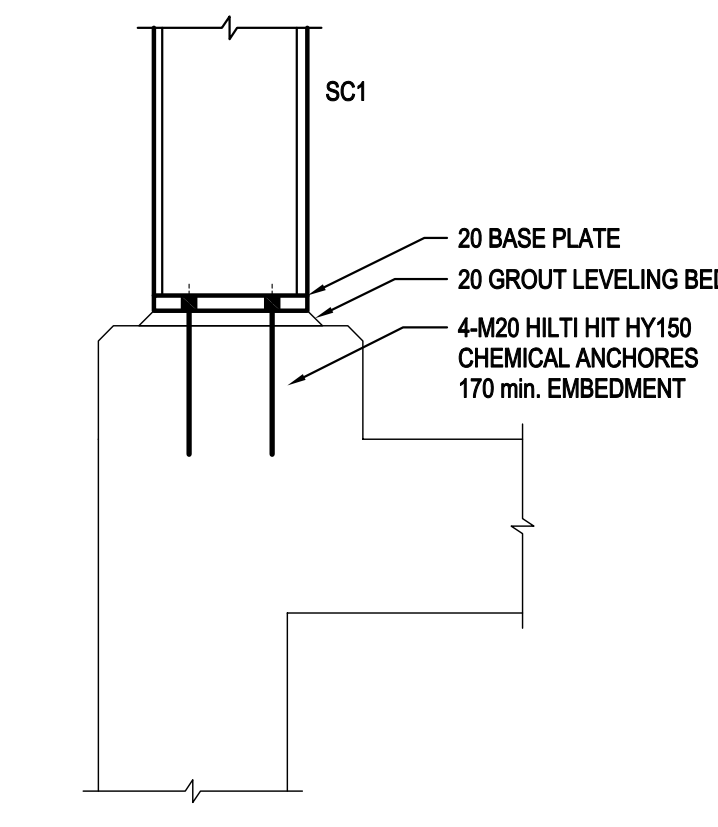
SECTION A-A



TYPICAL PANEL ELEVATIONS

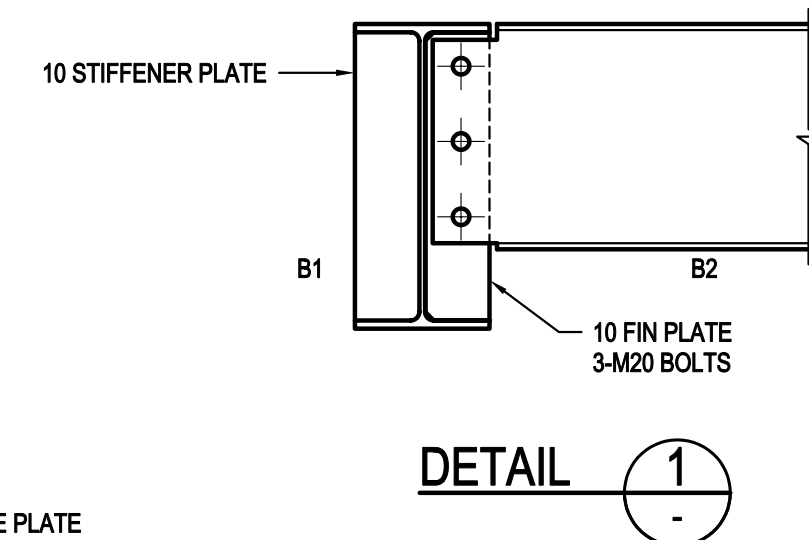


PLAN

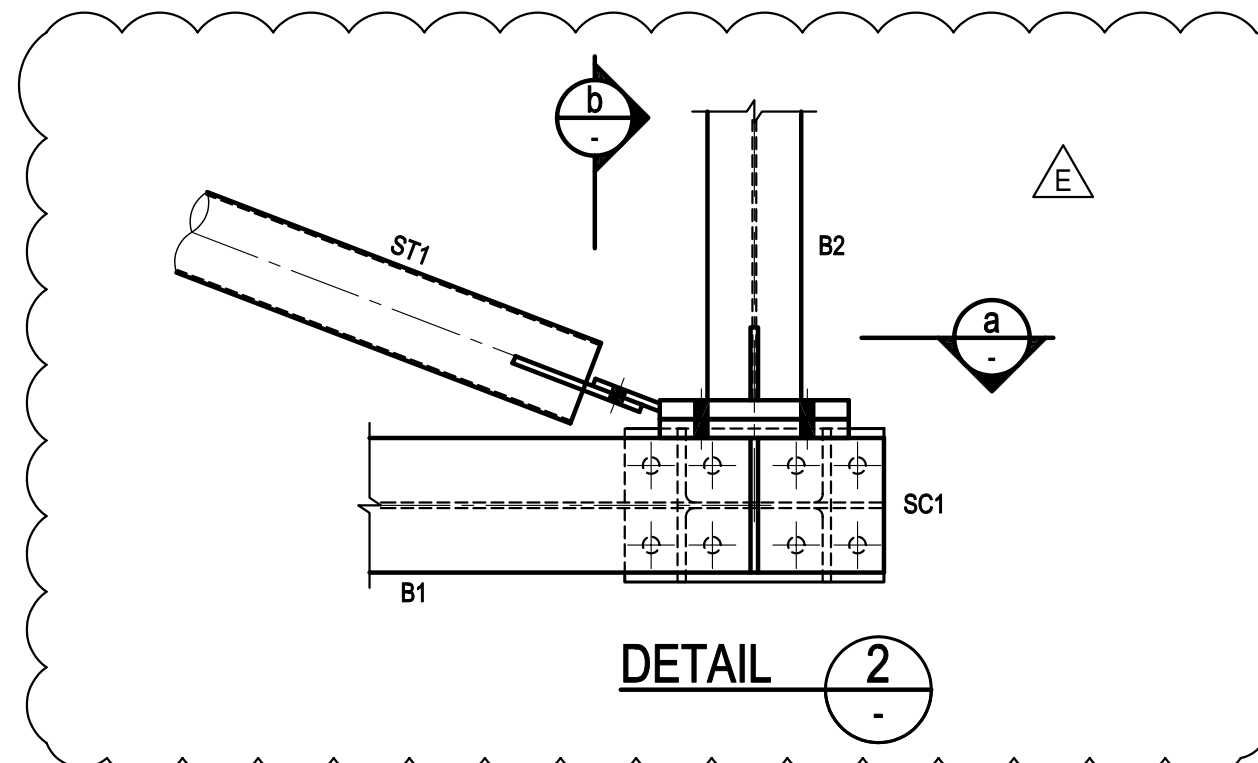


SECTION

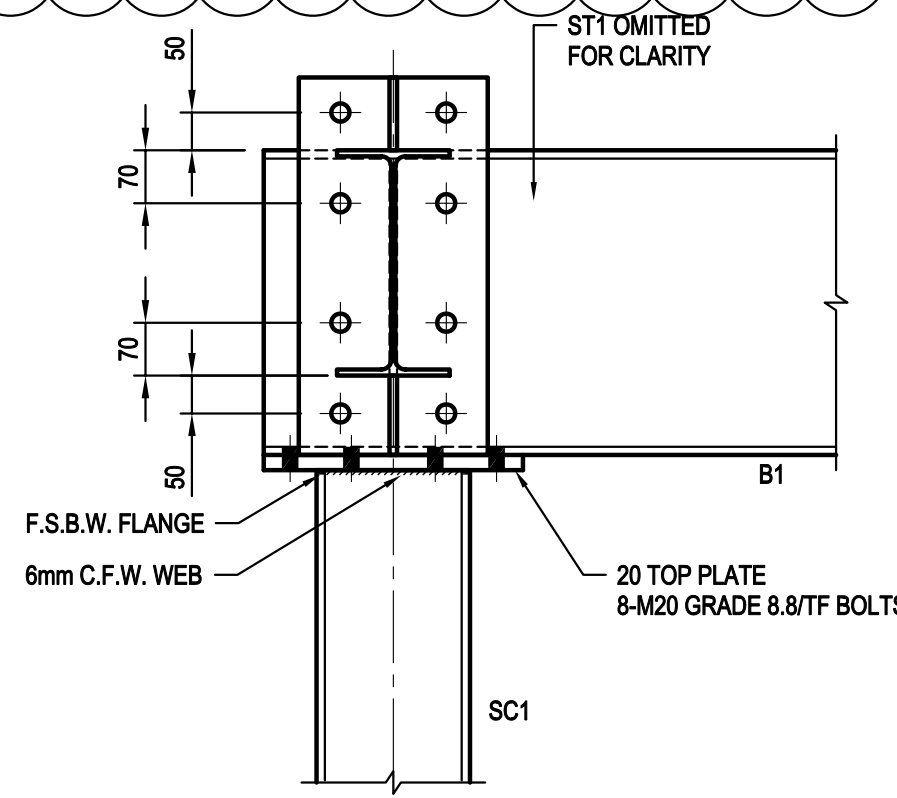
TYPICAL SC1 BASE PLATE DETAIL



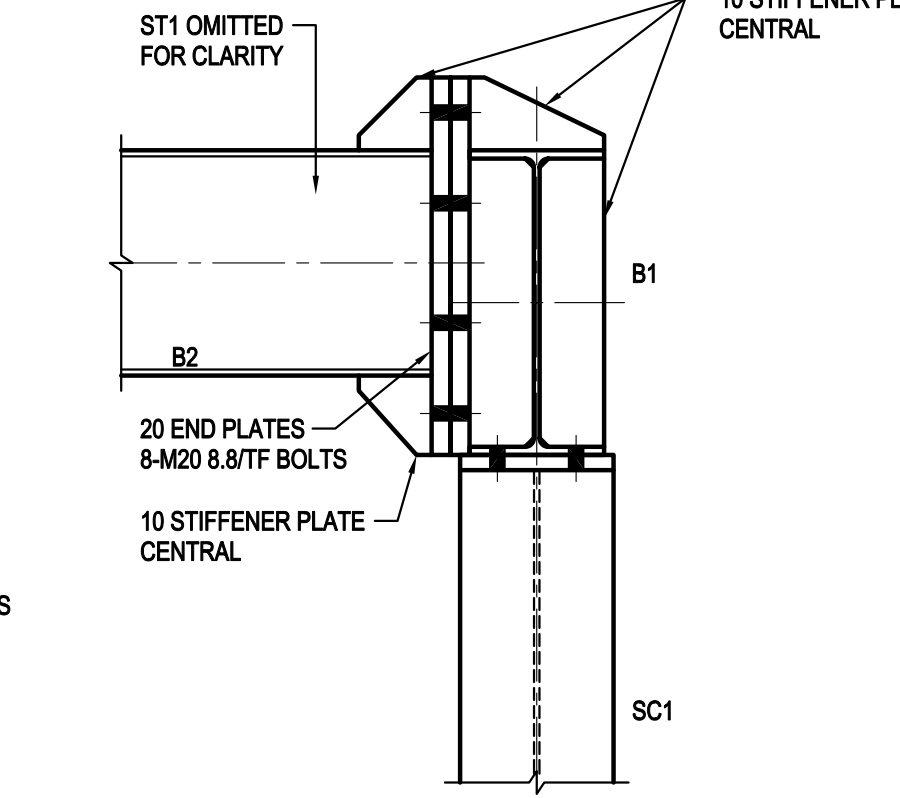
DETAIL 1



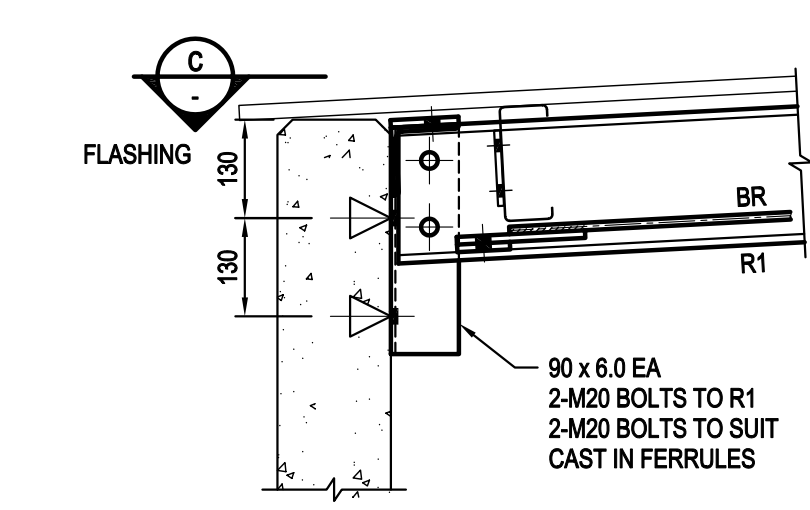
DETAIL 2



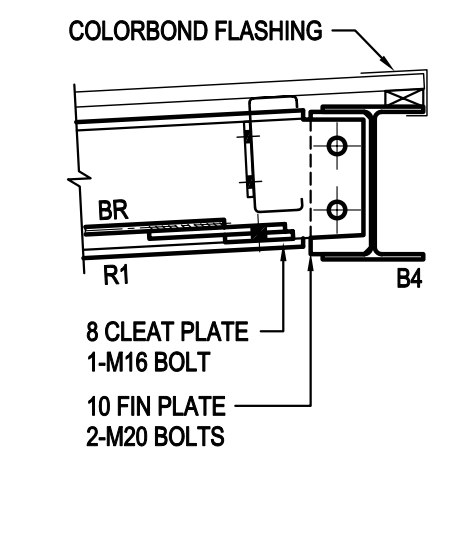
SECTION a-a



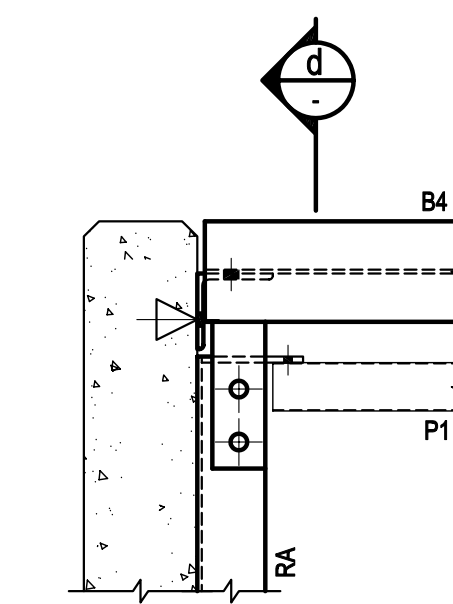
SECTION b-b



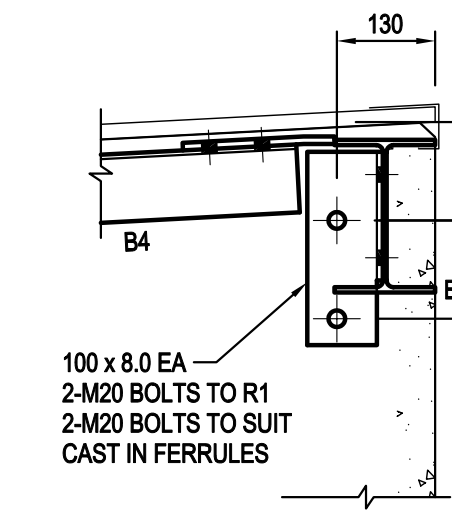
SECTION 3



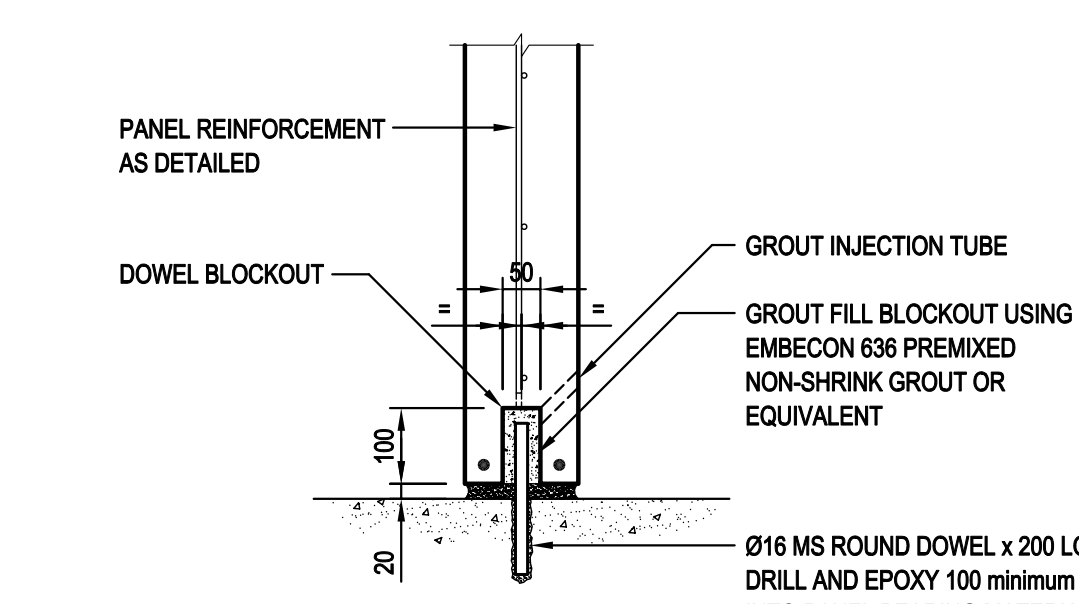
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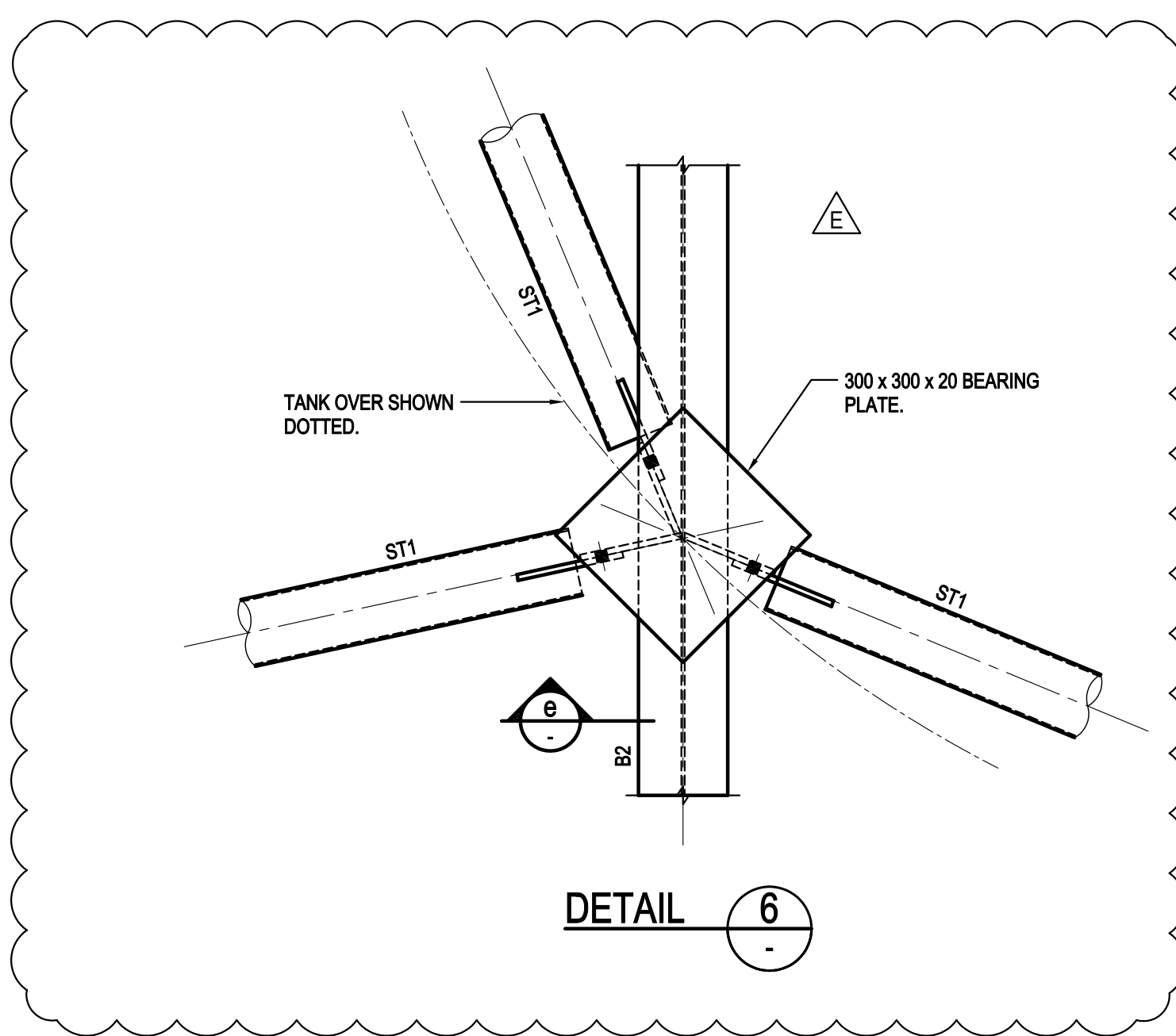
SECTION 5



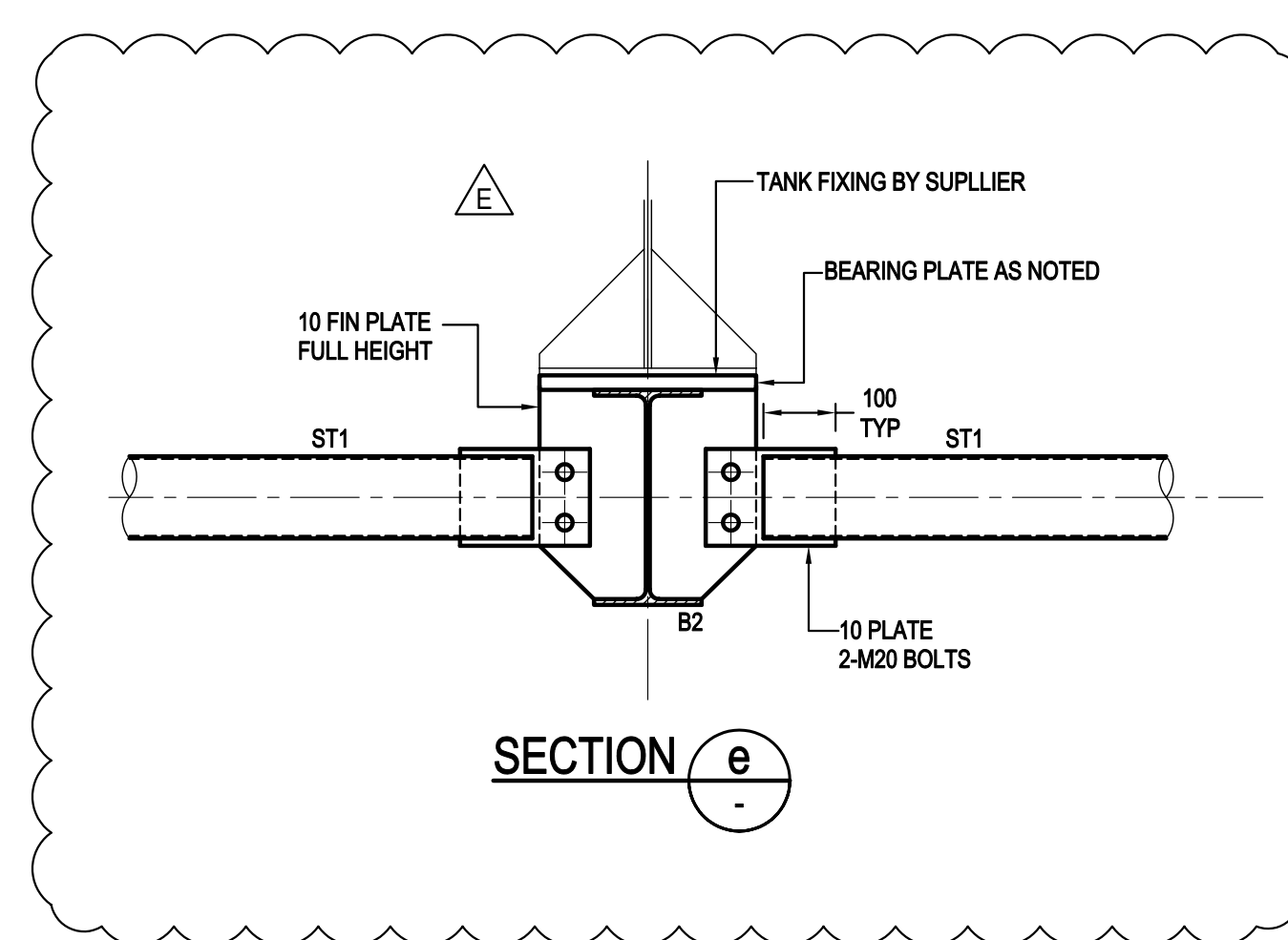
SECTION d-d



TYPICAL PANEL DOWEL DETAIL

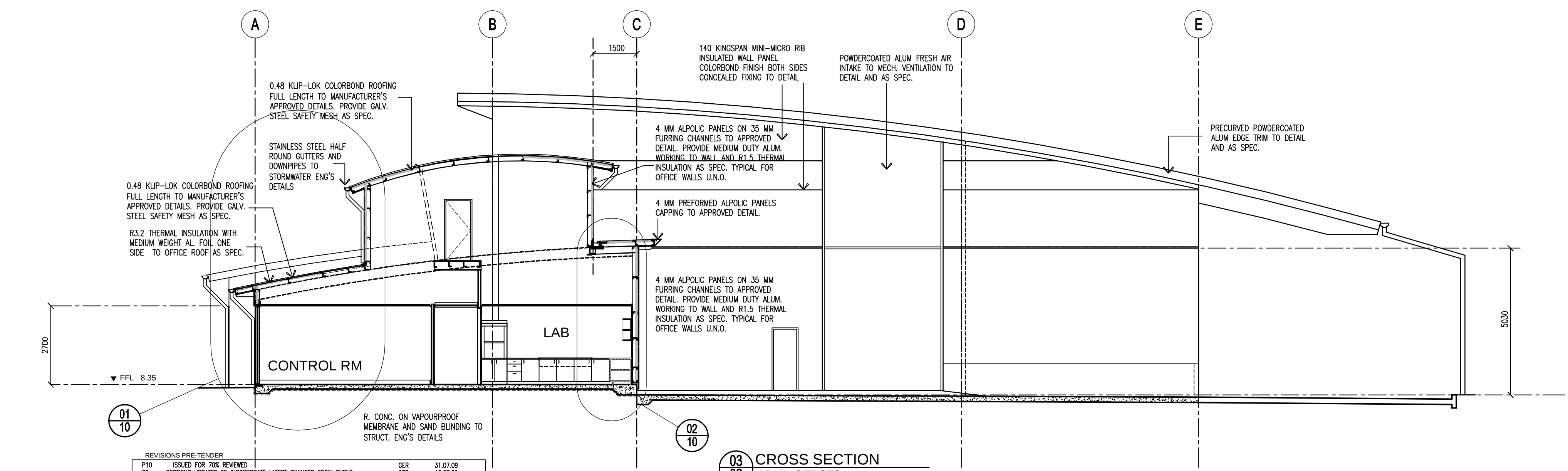
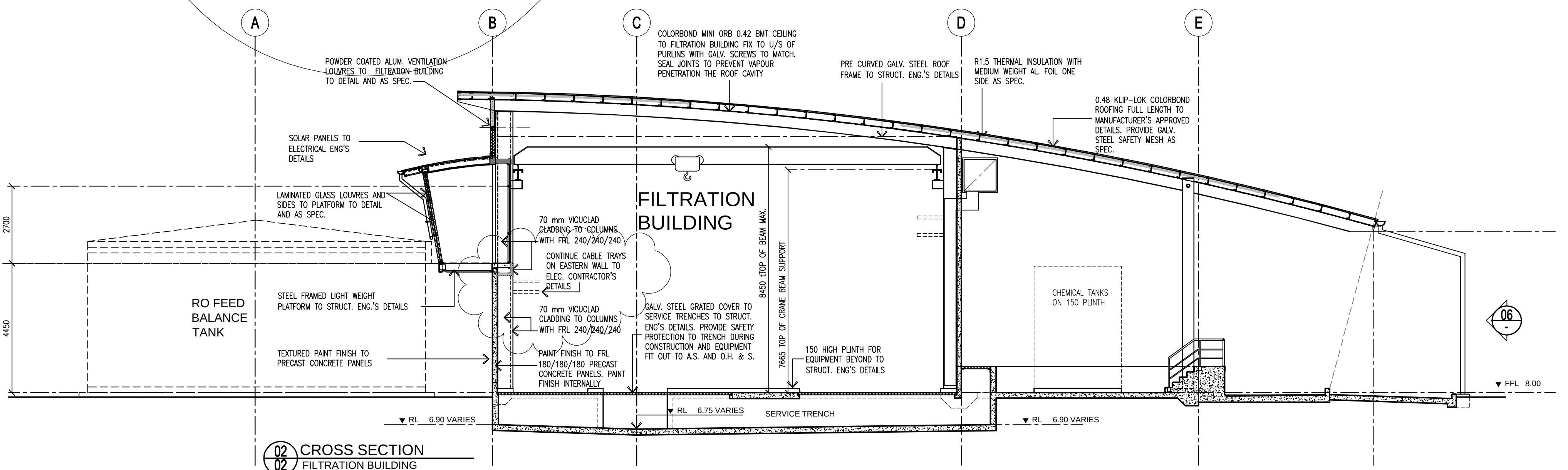
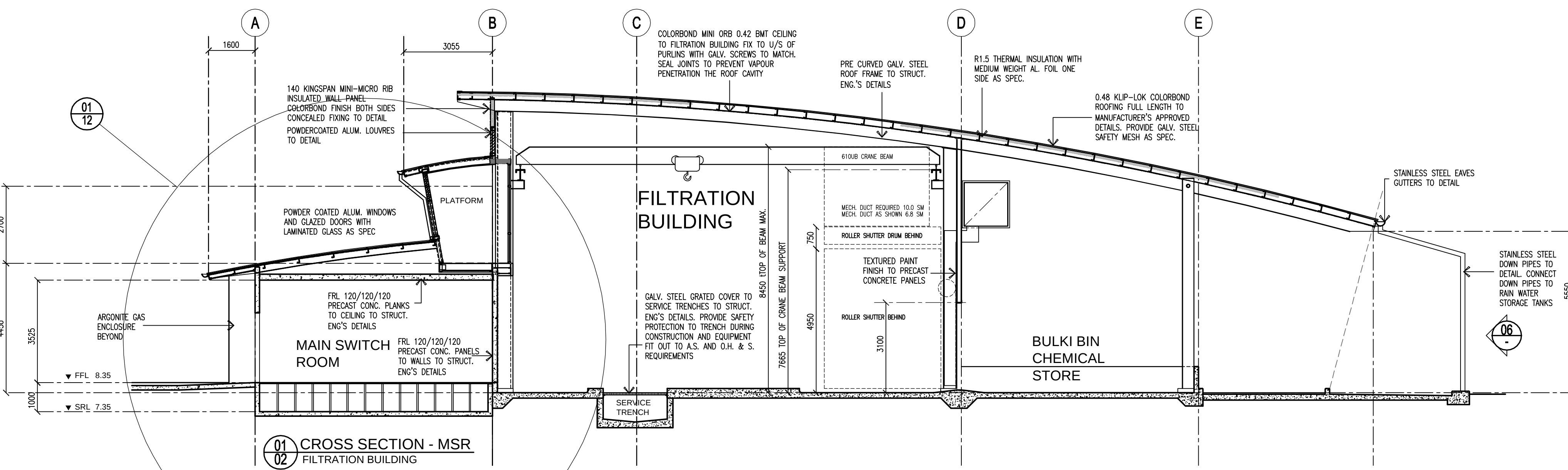
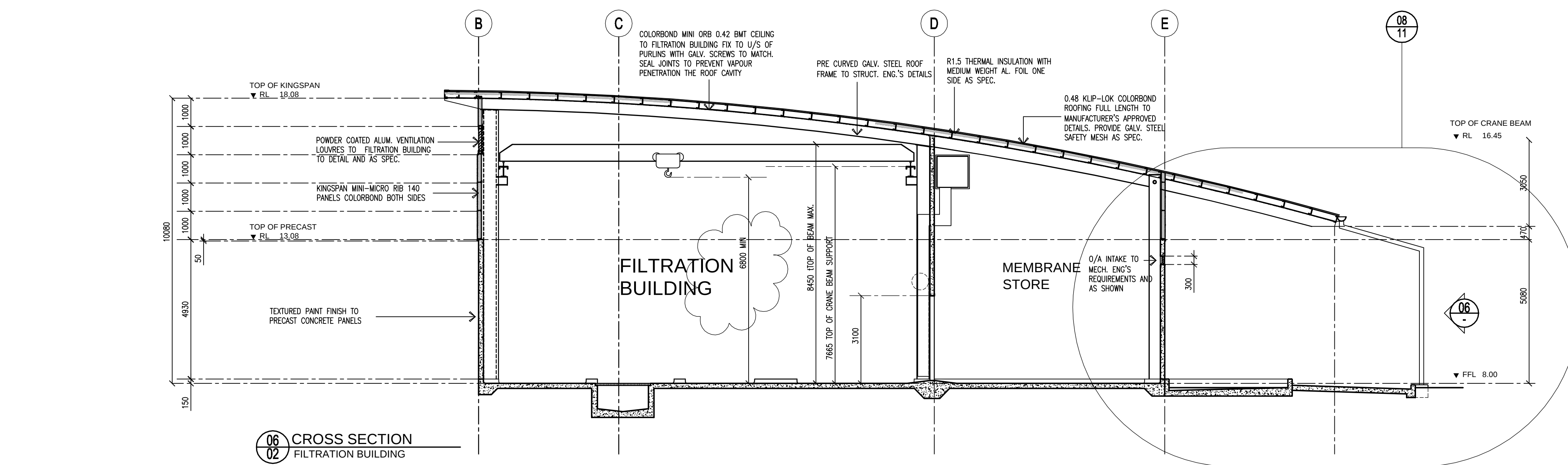
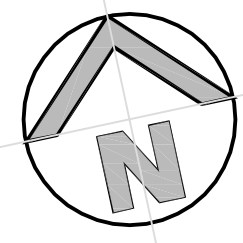


DETAIL 6



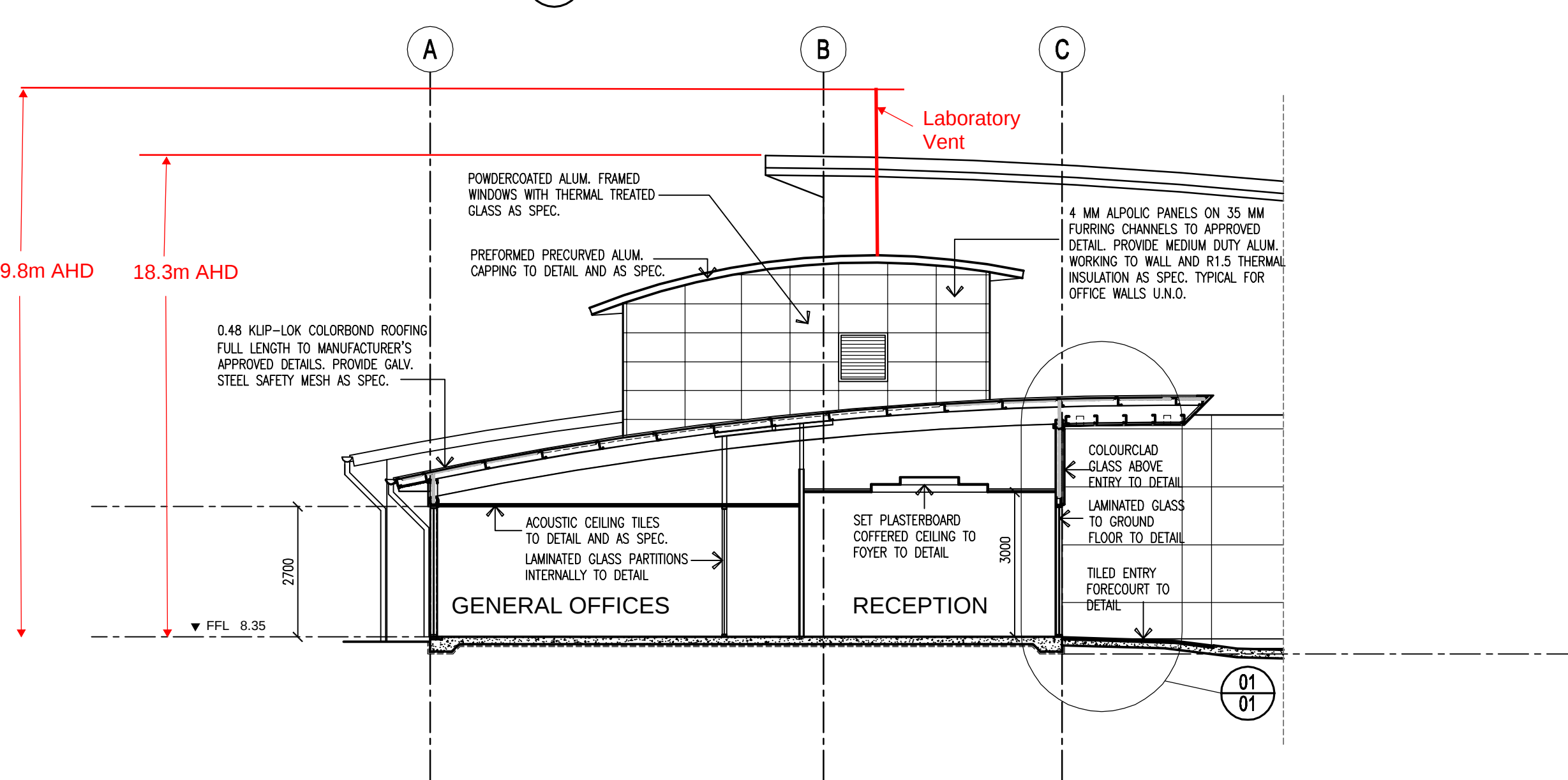
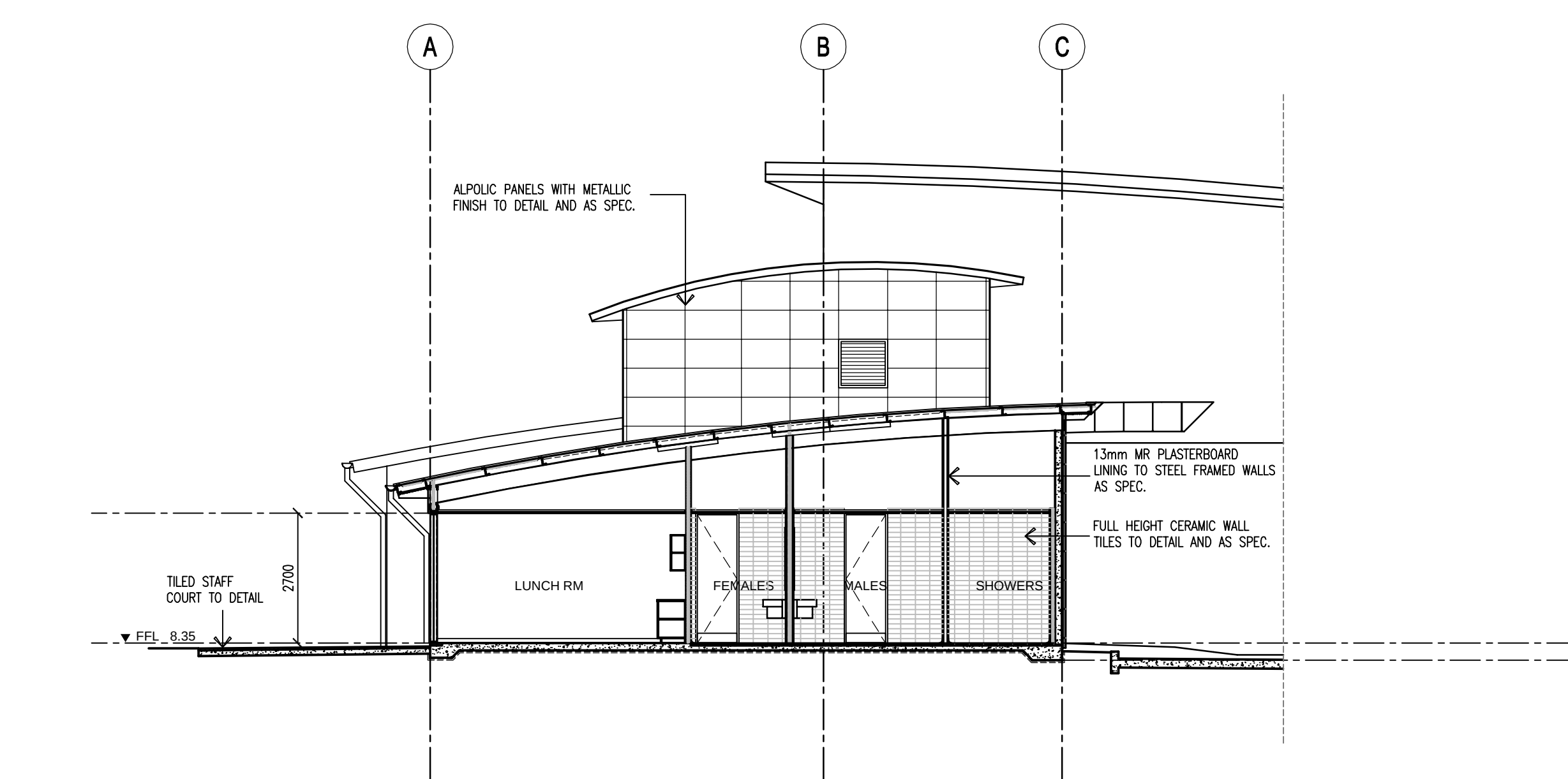
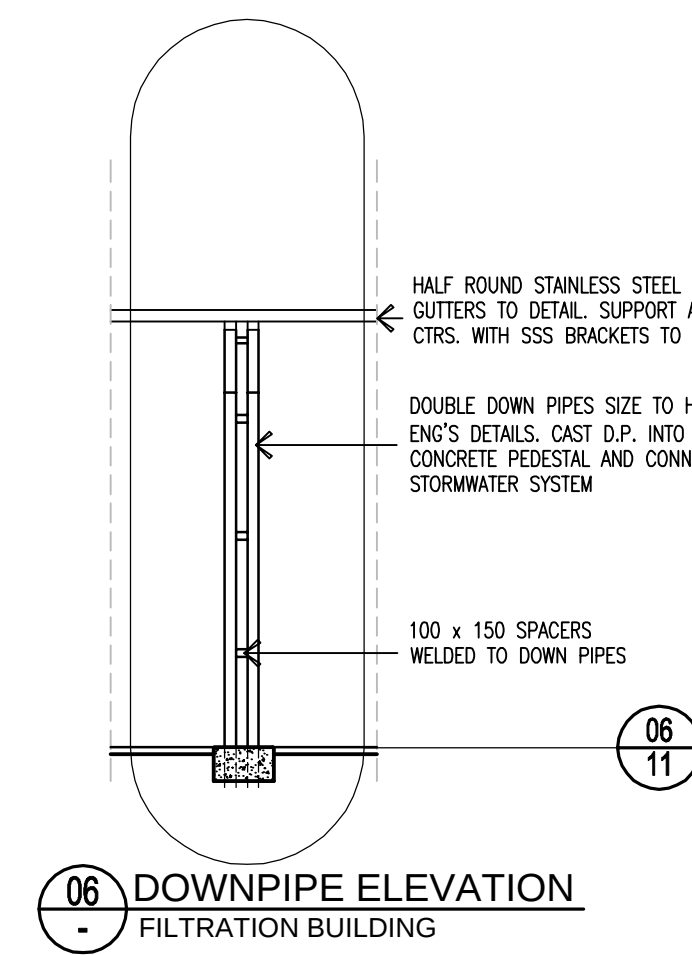
SECTION e-e

E				BUILDING SERVICES				COST MANAGEMENT				SURVEYOR				Architect				Lead Consultant Structural & Civil Engineers				Client				Project				Drawn				Designed				Date																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
DEGASSER SUPPORT FRAME REVISED AS PER VWS REQUEST				UNOW LAI				LEAN & HAYWARD				OPERA ARCHITECTS				HENRY & HYMAS				VEOLIA WATER				ROSEHILL RWTP				A0123-H-5014-03				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E				E			



REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR PERMIT	GER	GER	21.02.19					
02	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	23.02.19					
03	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					
04	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					
05	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					
06	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					
07	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					
08	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					
09	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					
10	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					

NOTES:
1. ALL INTERNAL INSITU CONCRETE SHALL BE EPOXY PAINT FINISH AS SPECIFIED BY STRUCTURAL ENGINEER
2. ALL INTERNAL STEEL SHALL BE HOT DIP GALVANIZED AS SPECIFIED BY STRUCTURAL ENGINEER
3. KINGSSPAN PANELS SHALL BE COLORBOND FINISH BOTH SIDES AND SHALL BE CONCEALED FIXED TO MANUFACTURERS APPROVED DETAILS. PROVIDE GALV. STEEL SAFETY MESH AS SPEC.
4. COLORBOND MINI ORB SHALL BE SCREW FIXED TO UNDERSIDE OF ROOF PURLINS TO MANUFACTURERS APPROVED DETAILS. SCREW HEADS SHALL MATCH COLOUR OF COLORBOND. SEAL ALL JOINTS BETWEEN MINI ORB TO STOP VAPOUR PENETRATION INTO THE ROOF CAVITY



REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR PERMIT	GER	GER	21.02.19					
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03	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					
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08	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					
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10	SECTION UPDATES TO INCORPORATE LATEST CHANGES FROM CLIENT	GER	GER	12.03.19					

SUPPLIERS DOCUMENT REVIEW

Approval or review by VWS does not affect, limit, or relieve the Supplier from its responsibilities for defects or errors in the Supplier's documents, or from compliance with the requirements of the Contract or the requirements of any applicable legislation, regulation, standard or code of practice.

The review indicates the following status code:

- Code 5 - Information Only
- Code 4 - Reviewed No Comments
- Code 3 - Reviewed with Comments
- Code 2 - Unsatisfactory - Resubmit
- Code 1 - Rejected

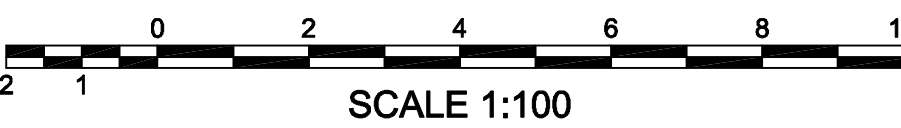
Mech. ELEC.

Proc. E.M.

Dwg. P.E.

Date

FOR CONSTRUCTION



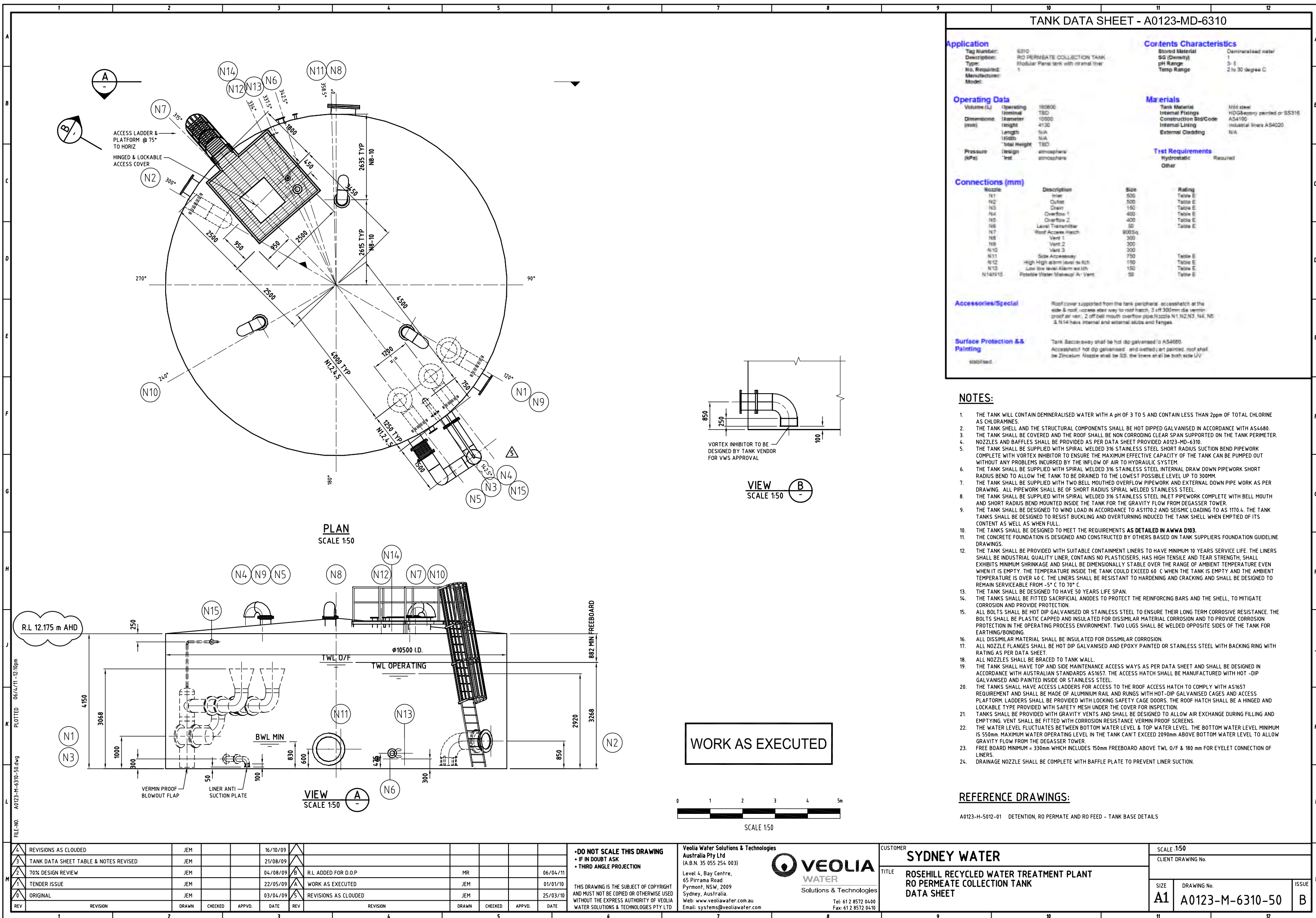
SCALE 1:100



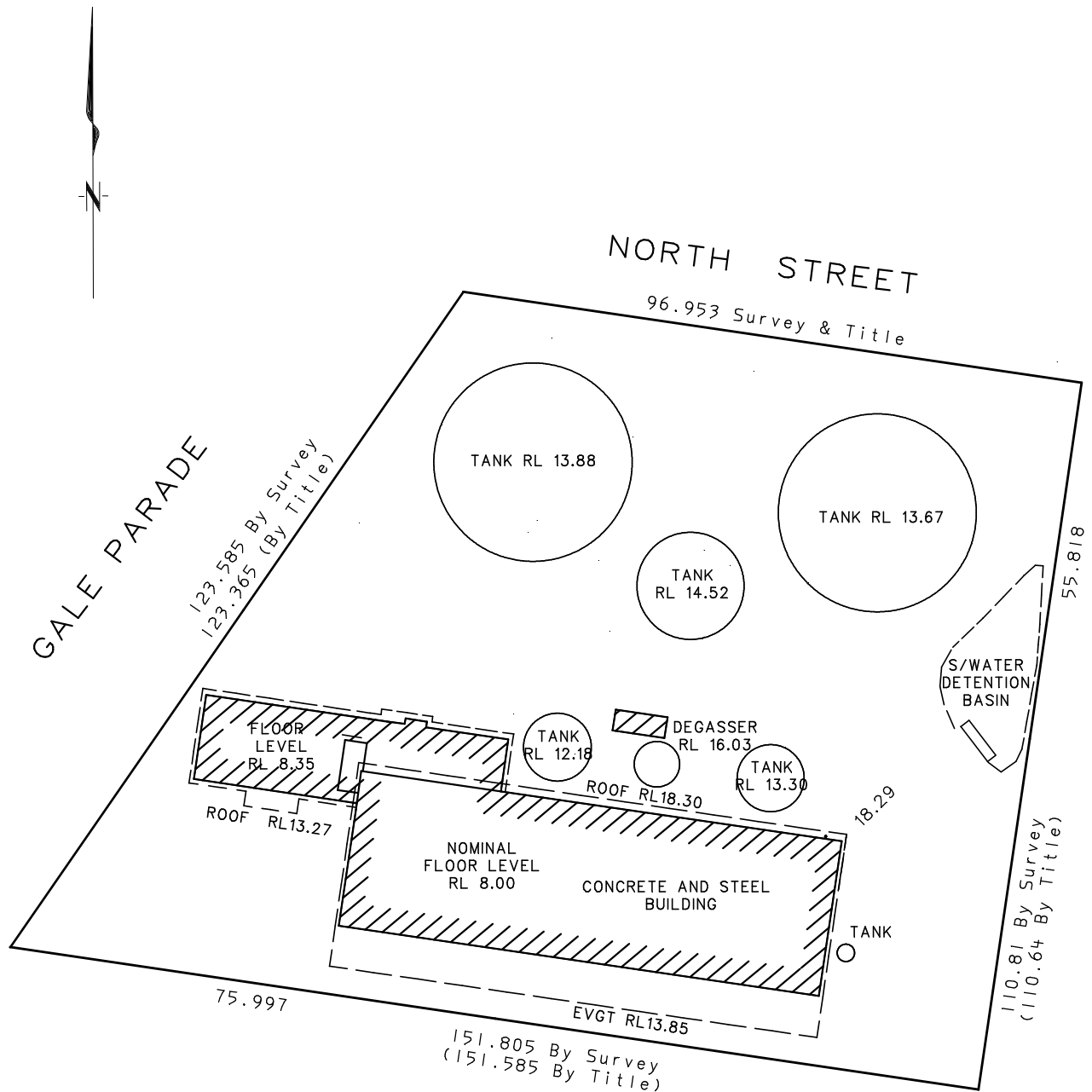
ROSEHILL RWTP
EAST PARADE & NORTH STREET FAIRFIELD
GENERAL CROSS SECTIONS

Drawn	Checked	Design	Date
NO	NO	G. ROTH	23.02.19
NO	NO	GER	1:100
NO	NO	GER	1:100

A0123-H-2000-04 [B]



SURVEY REPORT



NOTE.
ALL TANK LEVELS ARE MEASURED TO TOP
OF VERTICAL FACE.

TANK LEVELS
ROSEHILL RWTP
EAST PARADE & NORTH STREET
FAIRFIELD
NSW

DATE 22nd DECEMBER 2010