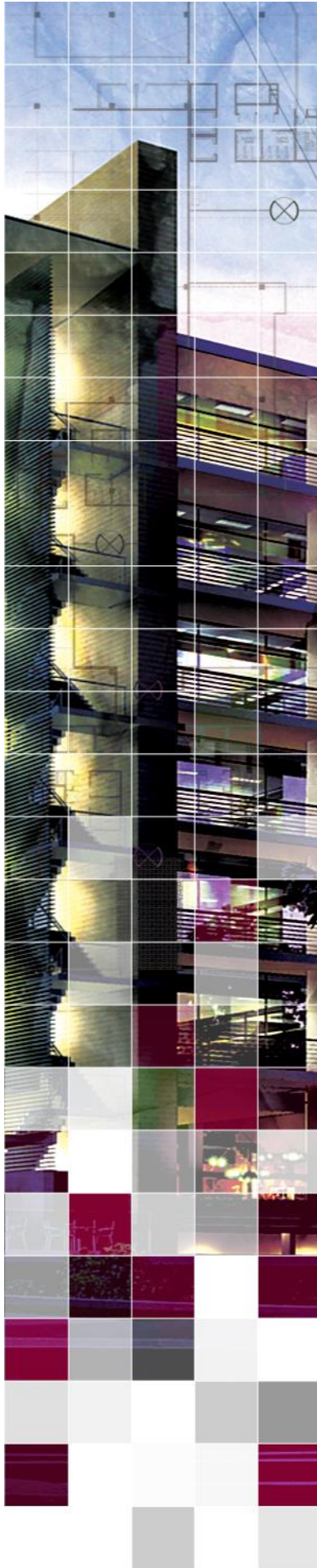




**STATEMENT OF ENVIRONMENTAL EFFECTS**  
**23-43 and 45 Tattersall Road, Kings Park**

Proposed minor changes to approved Kings Park  
Metal recovery, Processing and Recycling Facility  
via modification under Section 96(1A) to  
Development Application No. SSD 5041

**For:**

Sell & Parker

**Submitted to:**

NSW Department of Planning & Environment

**Date:**

August 2016

2016.0033

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## 1. INTRODUCTION

This report constitutes a Statement of Environmental Effects (SEE) accompanying an application under Section 96(1A) of the *Environmental Planning and Assessment Act, 1979* to modify Development Consent No. SSD5041 dated 12 November 2015 with respect to the approval described as “Increasing the processing capacity of the existing metal recycling facility, including reconfiguration and expansion of the facility into the adjoining site at 23-43 & 45 Tattersall Road, Kings Park”.

This SEE report is submitted to:

NSW Department of Planning and Environment (DP&E)

Address of land affected:

23-43 & 45 Tattersall Road, Kings Park

This SEE has been prepared on behalf of the applicant Sell & Parker by Higgins Planning in accordance with the provisions of the *Environmental Planning and Assessment Act 1979* (EP&A Act) and the *Environmental Planning and Assessment Regulation 2000* (EP&A Reg.).

This SEE provides:

- A brief description of the site and locality;
- A description of the proposed development;
- An assessment of relevant environmental planning considerations under Sections 96(1A) and 79C of the EP&A Act including compliance with relevant planning instruments and controls, environmental impacts, site suitability and the public interest; and
- Conclusions on the environmental planning assessment and merits of the proposed development on which this Section 96 application can be supported by The NSW Department of Planning and Environment (DP&E) and granted consent.

### 1.1 PRE-LODGEMENT MEETING AND LIAISON WITH NSW DEPARTMENT OF PLANNING AND ENVIRONMENT PRIOR TO SUBMISSION

Prior to submission of this application, the applicant met with DP&E on 15 June 2016 to have a general discussion about the proposed modification.

The applicant subsequently submitted more details to the DP&E via a consultation letter on 6 July 2016, which included the following details:

*Condition A2 in Schedule 2 Part A – Administrative Conditions be amended...with the inclusion of an amended Site Plan.*

*The changes can be described as follows:*

- i. *The existing western boundary acoustic wall currently located adjacent to existing truck driveway is to be relocated some 1.5 to 1.8 metres west from the existing position for the equivalent length and height as the existing wall. As a result the truck driveway will be widened by 1.5 to 1.8 metres. The principal reason for the change is that the driveway is to be widened to more adequately accommodate two (2) trucks using the weigh bridges, and rather than widening the driveway to the east which is problematic and cost prohibitive due to a change of grade of more than 1.5 metres adjacent internally to the existing metal recycling plant the driveway will be widened to the west as the grade of the driveway has already been formed;*
- ii. *As a consequence of the change above, the applicant will maintain the location of the existing internal acoustic wall running along the eastern edge of the truck access driveway and will also increase its height by 1 metre;*
- iii. *New configuration of weigh-bridge with office over as shown "Building K" is due to a change in weighbridge specifications supplied by the manufacturer. The height of the weigh bridge clearance under Building K is unchanged as is the overall height of Building K;*
- iv. *The height of "Building L" which is to enclose the existing recycling plant is to increase by approximately 5m. The reference to the building being 10 metres in the drawing information submitted with the original SSD application was an error. The purpose of this building is to enclose the existing plant to provide for improved acoustic attenuation on site. The existing plant is not proposed to be modified but rather merely enclosed in a building in which it must fit, the existing plant is taller than 10 metres and thus this was an error in the original application which the applicant now seeks to rectify. Visually, while the building may be visible from Tattersall Road, the existing plant is currently visible and could be described as somewhat of an "eye-sore". While the proposed building is taller than 10 metres it nonetheless would still enclose the existing plant which would improve the streetscape and mitigate noise impacts on adjoining properties which were assessed as an improvement in the original application;*
- v. *The location of the two (2) existing substations located centrally in the site adjacent to Building C are to remain in this location;*
- vi. *The existing acoustic wall located along the boundary between 23-43 Tattersall Road and 45 Tattersall Road to enclose the area of the metal recycling plant will no longer be relocated. The reason for this change is that from an operational perspective the relocation is no longer required;*
- vii. *A new roller shutter door is proposed along the central driveway in the location of the public access to the car parking area. This is to prevent unauthorised access to the site and provide security when the site is not operational;*
- viii. *Inclusion of roller shutter door in the western elevation of Building C. The reason for the change is to enable access from Building C to the stockpiles in the recycling yard by trucks and to secure Building C when not operational;*
- ix. *Deletion of roller shutter door in the southern elevation of Building C. The reason for the change is this is no longer required to enable access from Building C to the stockpiles in the recycling yard by trucks and to secure Building C when not operational as the roller shutter door is to be relocated as detailed in notation viii above;*
- x. *Reposition the "proposed Shear" building as shown. The reason for the change is to enable circulation within this yard area to enable safer movements and swept paths of trucks, particularly queuing to the weigh bridge leaving the site;*
- xi. *New roller shutter door to the Tattersall Road façade of Building B. The reason for the change is to allow staff to access the building with trucks;*
- xii. *Egress stairs on Tattersall Road façade of Building B for pedestrian access between Buildings B and E;*
- xiii. *Reconfiguration of the weigh bridge at the eastern edge of the site, for trucks exiting the site to be located within the existing footprint of Building B rather than modifying Building B. Reason*

*for the change is that sufficient clearance is available within Building B rather than needing to modify the footprint of Building B; and*

- xiv. *Inclusion of roller shutter door adjacent to eastern boundary of Building B. The reason for the change is to enable access to the yard area by employees and trucks and secure the site when not operational. This is to prevent unauthorised access to the site and provide security when the site is not operational.*

*Justifications for modification:*

*The reasons for this minor amendment seeking an addition to the condition include:*

- 1. The applicant seeks to amend the "Site layout plan and drawings" referenced in Appendix A of the EIS by this Section 96 Modification;*
- 2. The minor layout modifications will allow for a more operational efficient layout; and*
- 3. Provides a practical value engineered approach to service relocations and equipment requirements and revised specifications.*

DP&E subsequently advised via email dated 25 July 2016:

*Thank you for your request on behalf of Sell & Parker for SEARs dated 6 July 2016 for the preparation of a modification application for the Kings Park Metal Recovery, Processing and Recycling Facility (SSD5041). The Department has reviewed the request and considers that the application should provide the following (but not limited to):*

- a detailed assessment of the key issues;*
- justification for the modification application;*
- plans showing the proposed modification;*
- details of the conditions to be modified;*
- an assessment of noise including demonstrating that moving the acoustic barrier will not result in any additional noise impacts;*
- an assessment of air quality and whether changing the location of the shutter doors will affect air quality;*
- an assessment of the potential visual impacts of the modification on the amenity of the surrounding area; and*
- an assessment of the swept paths;*
- an assessment of the soil and water management plan to confirm whether any revision would be required*
- confirmation on whether the technical studies prepared for the EIS were based on the "error" in height (10 metres) for Building L. If so, this would need to be noted and revised where relevant in the assessments listed above.*

## 2. THE SITE

### 2.1 SITE LOCATION AND CONTEXT

The site is located in the mid-block of Tattersall Road, Kings Park and approximately 2.5 kilometres from the M7. This location is depicted in **Figure 1**. Kings Park is located within the Local Government Area (LGA) of Blacktown City Council, and is located approximately 41.2 kilometres from the Sydney Central Business District (CBD).



**Figure 1:** Location context (subject site identified by red outline)

Source: Google Earth

### 2.2 SITE DESCRIPTION

The site is located on the southern side of Tattersall Road, Kings Park (see **Figure 1**). The site has a legal description of Lot 2 in DP 550522 and Lot 5 in DP 7086. The land is relatively flat/level with a fall towards its rear boundary. The site is largely cleared, with the exception of some trees scattered across the perimeter front and rear boundaries.

The existing metal processing plant is obscured from view when travelling along Tattersall Road due to the existing trees at the Tattersall Road frontage of the land between the property boundary and the existing acoustic wall along the frontage of the portion of the site at 45 Tattersall Road. An open stormwater drainage channel runs along the eastern boundary. Adjacent to the site's southern boundary is Breakfast Creek.

### 3. DESCRIPTION OF THE PROPOSED MODIFICATION

This modification under Section 96(1A) of the EP&A Act seeks approval for a number of minor changes to the approved drawings and associated condition contained in Development Consent No. SSD 5041 dated 12 November 2015 for proposed development “Increasing the processing capacity of the existing metal recycling facility, including reconfiguration and expansion of the facility into the adjoining site at 23-43 Tattersall Road, Kings Park”, as follows:

#### 3.1 MODIFICATION OF CONDITION A2 IN SCHEDULE 2 PART A – ADMINISTRATIVE CONDITIONS

It is requested that condition A2 in Schedule 2 Part A – Administrative Conditions be amended to enable the drawings included at **Appendix A** to replace the drawing information referenced in condition A2 documentation.

Please note all changes are shown with clouding on the amended site plan and elevation drawings attached at **Appendix A**, changes to condition A2 are shown in red for additions and deletions with strike-through:

##### **TERMS OF CONSENT**

A2. *The Applicant shall carry out the Development in accordance with the:*

- a) *EIS prepared by ERM dated July 2014;*
- b) *Response to Submissions report prepared by ERM dated 7 January 2015;*
- c) *Supplementary Response to Submissions prepared by Mecone dated 30 June 2015;*
- d) *Supplementary Response to Submissions prepared by Sell and Parker Pty Ltd dated 3 September 2015;*
- e) *Site layout plans and drawings as amended by Mod SSD 5041 Appendix A “Site Plan” prepared by Algorry Zappia & Associates Pty Ltd Drawing No. A101-E Rev D dated 19 August 2016, “Site Analysis Plan” prepared by Algorry Zappia & Associates Pty Ltd Drawing No. A102-D Rev C dated 20 July 2016, “Floor Plans” prepared by Algorry Zappia & Associates Pty Ltd Drawing No. A201-C Rev C dated 20 July 2016, “Elevations & Sections” prepared by Algorry Zappia & Associates Pty Ltd Drawing No. A301-D Rev C dated 20 July 2016, and “Site Plan” prepared by Algorry Zappia & Associates Pty Ltd Drawing No. A302-C Rev C dated 20 July 2016; and*
- f) *Management and Mitigation Measures (see Appendix B).*

#### 3.2 LIST OF CHANGES

The changes shown on the Site Plan being Drawing No. A101-D Rev D dated 20 July 2016 when viewed from right to left on the site plan from Tattersall Road, and shown with black clouding and then shown in more detail on the floor plans, elevations and sections, which also include black clouding, as attached at **Appendix A**, include:

- i. The existing western boundary acoustic wall currently located adjacent to existing truck driveway is to be relocated some 1.5 to 1.8 metres west from the existing position for the equivalent length and height as the existing wall. As a result the truck driveway will be widened by 1.5 to 1.8 metres. The principal reason for the change is that the driveway is to be widened to more adequately accommodate two (2) trucks using the weigh bridges, and rather than widening the driveway to the east which is problematic and cost prohibitive due to a change of grade of more than 1.5 metres adjacent internally to the existing metal recycling plant the driveway will be widened to the west as the grade of the driveway has already been formed;
- ii. As a consequence of the change above, the applicant will maintain the location of the existing internal acoustic wall running along the eastern edge of the truck access driveway and will also increase its height by 1 metre;
- iii. New configuration of weigh-bridge (including ramps) with office (including stairs) over as shown "Building K" is due to a change in weighbridge specifications supplied by the manufacturer. The height of the weigh bridge clearance under Building K is unchanged as is the overall height of Building K;
- iv. The height of "Building L" which is to enclose the existing recycling plant is to increase by approximately 5m. The reference to the building being 10 metres in the drawing information submitted with the original SSD application was an error. The purpose of this building is to enclose the existing plant to provide for improved acoustic attenuation on site. The existing plant is not proposed to be modified but rather merely enclosed in a building in which it must fit, the existing plant is taller than 10 metres and thus this was an error in the original application which the applicant now seeks to rectify. Visually, while the building may be visible from Tattersall Road, the existing plant is currently visible and could be described as somewhat of an "eye-sore". While the proposed building is taller than 10 metres it nonetheless would still enclose the existing plant which would improve the streetscape and mitigate noise impacts on adjoining properties which were assessed as an improvement in the original application;
- v. The location of the two (2) existing substations located centrally in the site adjacent to Building C are to remain in this location;
- vi. The existing acoustic wall located along the boundary between 23-43 Tattersall Road and 45 Tattersall Road to enclose the area of the metal recycling plant will no longer be relocated. The reason for this change is that from an operational perspective the relocation is no longer required;
- vii. A new roller shutter door is proposed along the central driveway in the location of the public access to the car parking area. This is to prevent unauthorised access to the site and provide security when the site is not operational;
- viii. Inclusion of roller shutter door in the western elevation of Building C. The reason for the change is to enable access from Building C to the stockpiles in the recycling yard by trucks and to secure Building C when not operational;
- ix. Deletion of roller shutter door in the southern elevation of Building C. The reason for the change is this is no longer required to enable access from Building C to the stockpiles in the

recycling yard by trucks and to secure Building C when not operational as the roller shutter door is to be relocated as detailed in notation viii above;

- x. Reposition the “proposed Shear” building as shown. The reason for the change is to enable circulation within this yard area to enable safer movements and swept paths of trucks, particularly queuing to the weigh bridge leaving the site;
- xi. New roller shutter door to the Tattersall Road façade of Building B. The reason for the change is to allow staff to access the building with trucks;
- xii. Egress stairs on Tattersall Road façade of Building B for pedestrian access between Buildings B and E;
- xiii. Reconfiguration of the weigh bridge at the eastern edge of the site, for trucks exiting the site to be located within the existing footprint of Building B rather than modifying Building B. Reason for the change is that sufficient clearance is available within Building B rather than needing to modify the footprint of Building B;
- xiv. Inclusion of roller shutter door adjacent to eastern boundary of Building B. The reason for the change is to enable access to the yard area by employees and trucks and secure the site when not operational. This is to prevent unauthorised access to the site and provide security when the site is not operational;
- xv. Widening of an existing ramp by 1m to 1.5m wide on the eastern side elevation of Building C;
- xvi. Installation of 5 new ‘no stopping’ signs which will be installed on either side of the entry & exit driveways on Tattersall Road. Please see drawing A101E which details the location of these proposed signs; and
- xvii. Installation of an access door at the north east wall of Building B.

### **3.3 JUSTIFICATION OF PROPOSED CHANGES TO CONDITION A2**

The purpose of the changes shown with black clouding and annotations on the drawings in **Appendix A**, are as a result of a design review undertaken by Sell & Parker prior to implementation. The reasons for this minor amendment seeking an addition to the condition include:

1. The applicant seeks to amend the “Site layout plan and drawings” referenced in Appendix A of the Environmental Impact Statement (EIS) by this Section 96(1A) Modification;
2. The minor layout modifications will allow for a more operational efficient layout; and
3. Provides a practical value engineered approach to service relocations and equipment requirements and revised specifications.

As such, the applicant requests condition A2 be amended as detailed above with the amended drawings.

## 4. SECTION 96(1A) ASSESSMENT

For the purposes of this assessment, it is considered that the nature of the changes proposed to modify the conditions of the development consent would ordinarily be considered by the Minister (as the consent authority) under Section 96(1A) of the EP&A Act, which states:

*(1A) Modifications involving minimal environmental impact*

*A consent authority may, on application being made by the applicant or any other person entitled to act on a consent granted by the consent authority and subject to and in accordance with the regulations, modify the consent if:*

- (a) it is satisfied that the proposed modification is of minimal environmental impact, and*
- (b) it is satisfied that the development to which the consent as modified relates is substantially the same development as the development for which the consent was originally granted and before that consent as originally granted was modified (if at all), and*
- (c) it has notified the application in accordance with:*
  - (i) the regulations, if the regulations so require, or*
  - (ii) a development control plan, if the consent authority is a council that has made a development control plan that requires the notification or advertising of applications for modification of a development consent, and*
- (d) it has considered any submissions made concerning the proposed modification within any period prescribed by the regulations or provided by the development control plan, as the case may be.*

*Subsections (1), (2) and (5) do not apply to such a modification.*

Further, an assessment of the proposed changes in relation to Section 79C(1) has been completed in **Section 4.1.5** of this SEE so as to address the provisions of Section 96(3) of the EP&A Act which also state:

- (3) In determining an application for modification of a consent under this section, the consent authority must take into consideration such of the matters referred to in section 79C(1) as are of relevance to the development the subject of the application.*

The following sections provide an assessment under Section 96(1A) of the EP&A Act.

### 4.1 ASSESSMENT UNDER SECTION 96(1A)

As such, an assessment of the proposed changes under Section 96(1A) has been prepared to assist DP&E prepare an assessment report for determination by the Minister (or his delegate) in the consideration of this application.

#### 4.1.1 Are the changes of minimal environmental impact?

- (a) it is satisfied that the proposed modification is of minimal environmental impact, and*

The proposed changes will have minimal or no environmental impact. The minor modifications to condition A2(e) and the associated list of changes detailed previously in this report, will enable the construction certificate to be issued and retain the intent of all the existing conditions to be maintained which is to ensure DP&E's requirements are met prior to the relevant stage of the construction process. The location of the main elements of the approved development will remain the same, as demonstrated in the architectural drawings included at **Appendix A**.

It is considered the change to condition A2(e) and the associated site plan and elevations will be of minimal environmental impact as the use of the land will be unchanged, the intensity of the approved use will not be altered, when compared to the previously approved plans and outcome in Development Consent No. SSD 5041.

As such, the proposed modification will have minimal or no environmental impact.

#### **4.1.2 Are the changes substantially the same?**

The provisions of Section 96(1A) require consideration of the “substantially the same test”, which requires the Minister to determine as the consent authority whether the proposed changes individually and subsequently as a whole are “substantially the same”, based on:

- (b) it is satisfied that the development to which the consent as modified relates is substantially the same development as the development for which the consent was originally granted and before that consent as originally granted was modified (if at all), and*

The proposed change to condition A2(e) is minor when considering the development consent that was originally granted. The proposed minor changes to the site plan and elevations will not alter the original intent of the proposed development.

The nature of the proposed modifications will result in a development which is substantially the same as that currently approved, as the approved usage of the land will not be altered and neither will the footprint be altered, rather the proposal generally involves minor façade and wall adjustments. The location of the main elements of the approved development will remain the same, as demonstrated in the architectural drawings included at **Appendix A**.

The intensity of the proposed development when compared to the approved development is exactly the same as described in the current approval. No changes are proposed to the approved usage of the land or its approved intensity.

The proposed changes individually are minor when considering the development consent that was originally granted. The proposed minor changes will not alter the original intent of the proposed development which will remain substantially the same. Importantly, it is noted that the proposed changes will not result in the operational design of the approved metal processing and recycling facility being enlarged.

The proposed modifications are considered minor as they do not change the principle design intent of the approved buildings to be used as part of the metal processing and recycling centre or the overall operation of conditions of the Development Consent.

Hence, it is considered that the proposed amendment is individually minor and as a whole, will result in substantially the same development as that originally approved. As such, DP&E can be satisfied that the proposed changes will result in a development which is substantially the same and therefore is consistent with Section 96(1A) of the EP&A Act.

#### **4.1.3 Notification Section 96(1A)(c)**

The provisions of Section 96(1A)(c) requires the consent authority to also consider the following:

- (c) it has notified the application in accordance with:*

- (i) the regulations, if the regulations so require, or*
- (ii) a development control plan, if the consent authority is a council that has made a development control plan that requires the notification or advertising of applications for modification of a development consent, and*

The proposed modifications will not generally result in an increase in the height of the approved building, except for Building L which is discussed in Section 4.2.11 in detail, but rather are minor movements of acoustic walls and minor changes to facades and elevations with the relocation of roller shutter doors to existing buildings and inclusion of security gates. Furthermore, the proposed modifications will not substantially change the development to what was originally approved and there will be no disadvantage caused to adjoining property owners.

#### **4.1.4 Consideration of submissions – Section 96(1A)(d)**

DP&E at the conclusion of a notification period is required to consider any submissions received in accordance with Section 96(1A)(d) which states:

- (d) it has considered any submissions made concerning the proposed modification within the period prescribed by the regulations or provided by the development control plan, as the case may be.*

It is understood that DP&E will consider any planning issues raised in submission/s as part of the assessment of the application.

#### **4.1.5 Section 79C of the EP&A Act – Evaluation – Section 96(3)**

Section 96(3) of the EP&A Act states:

- (3) In determining an application for modification of a consent under this section, the consent authority must take into consideration such of the matters referred to in section 79C (1) as are of relevance to the development the subject of the application.*

Section 3 of this SEE report provides an assessment under Section 79C of the *Environmental Planning and Assessment Act 1979*, as follows. This section of the SEE provides an assessment of the relevant environmental planning issues associated with the proposed development in accordance with Section 79C(1) of the EP&A Act, which states:

##### ***“79C(1) Matters for consideration – general***

*In determining a development application, a consent authority is to take into consideration such of the following matters as are of relevance to the development the subject of the development application:*

- (a) the provisions of:*
  - (i) any environmental planning instrument, and*
  - (ii) any draft environmental planning instrument that is or has been placed on public exhibition and details of which have been notified to the consent authority (unless the Director-General has notified the consent authority that the making of the draft instrument has been deferred indefinitely or has not been approved), and*
  - (iii) any development control plan, and*
  - (iiia) any planning agreement that has been entered into under section 93F, or any draft planning agreement that a developer has offered to enter into under section 93F, and*
  - (iv) the regulations (to the extent that they prescribe matters for the purposes of this paragraph),*
- that apply to the land to which the development application relates,*
- (b) the likely impacts of that development, including environmental impacts on both the natural and built environments, and social and economic impacts in the locality,*
- (c) the suitability of the site for the development,*
- (d) any submissions made in accordance with this Act or the regulations,*
- (e) the public interest.”*

## **4.2 SECTION 79C(1)(A)(I) – ENVIRONMENTAL PLANNING INSTRUMENTS**

Those primary matters under Section 79C(1)(a)(i) of the EP&A Act include *Local Environmental Plans* (LEPs), *Regional Environmental Plans* (REPs) (now deemed SEPPs) and *State Environmental Planning Policies* (SEPPs).

### **4.2.1 State Environmental Planning Policies (SEPPs)**

The application is not considered to trigger any new assessable consideration under any SEPP which was considered acceptable in the original assessment and issuing of Development Consent No. SSD5041.

### **4.2.2 State Environmental Planning Policy (Infrastructure) 2007**

*State Environmental Planning Policy (Infrastructure) 2007* (“Infrastructure SEPP”) aims to provide for consultation with relevant public authorities about certain development during the assessment process or prior to development commencing. The provisions of the Infrastructure SEPP are not triggered by the proposal.

### **4.2.3 State Environmental Planning Policy No 55 – Remediation of Land**

*State Environmental Planning Policy No. 55 – Remediation of Land* (SEPP 55) relates to the remediation of contaminated land. The policy states that land must not be developed if it is unsuitable for a proposed use because it is contaminated. If the land is unsuitable, remediation must take place before the land is developed.

The policy makes remediation permissible across the State, defines when consent is required, requires all remediation to comply with standards, ensures land is investigated if contamination is suspected and requires councils to be notified of all remediation proposals. The *Managing Land Contamination: Planning Guidelines* were prepared to assist assessment authorities and developers. The provisions of SEPP 55 are not triggered by the proposal.

### **4.2.4 Regional Environmental Plans (REPs)**

The application is not considered to trigger any new assessable consideration under any REP which was considered acceptable in the original assessment and issuing of Development Consent No. SSD 5041.

### **4.2.5 Local Environmental Plans (LEPs)**

The main environmental planning instrument which affects the proposed development is the *Blacktown Local Environmental Plan 2015* (BLEP 2015). The external configuration of the approved development and site layout will not be altered by this application, and as such no new assessment matters are triggered under the BLEP 2015.

#### **4.2.6 Section 79C (1)(a)(ii) – Draft Environmental Planning Instruments**

The application is not considered to trigger any new assessable consideration under any draft environmental planning instruments which were considered acceptable in the original assessment.

#### **4.2.7 Section 79C (1)(a)(iii) – Development Control Plans**

The proposal is not considered to trigger any new assessable matter under the Blacktown Development Control Plan.

#### **4.2.8 Section 79C (1)(a)(iiia) – Planning Agreements**

There is no VPA in relation to the subject site or Development Consent No. SSD 5041.

#### **4.2.9 Section 79C (1)(a)(iv) – Any matter prescribed by the regulations**

The application is not considered to trigger any new assessable consideration under the *Environmental Planning and Assessment Regulation 2000* (EP&A Regs.) which was considered acceptable in the original assessment and issuing of Development Consent No. SSD 5041.

#### **4.2.10 Section 79C (1)(a)(v) – Coastal zone**

The site is not impacted by the *Coastal Protection Act 1979* and this application will not alter that circumstance.

#### **4.2.11 Section 79C (1)(b) Impact on the Environment**

Pursuant to Section 79C (1)(b) of the EP&A Act, ‘the likely impacts of that development’ have been considered as follows:

##### ***4.2.11.1 Context and setting***

The context and setting of the approved development will not be altered by the proposed modification as detailed in the minor changes on the amended drawings.

##### ***4.2.11.2 Assessment of the potential visual impacts of the modification on the amenity of the surrounding area***

The proposal seeks the modification of the height of the acoustic enclosure of the existing processing plant from 10m in height to 15m in height adjacent to the Tattersall Road frontage.

As previously discussed, the reason for this change is so as the existing plant can be fully enclosed, and the height of the existing plant is greater than 10m, therefore the approved enclosure would not serve its purpose. This was an oversight in the preparation of the drawings which were submitted with the original application and its approval as detailed in the Development Consent issued under SSD 5041.

The original Environmental Impact Statement assessed the visual impact of the proposed development in the following manner:

Visual Impact Assessment

*There are no sensitive receptors with view to the site. The closest residence is located approximately 470m to the east of the site on Sunnyholt Road. The closest park is Headingly Reserve located approximately 460m to the east, also on Sunnyholt Road. Due to the topography and other industrial developments adjacent to the site, the site cannot be seen from either of these locations. There are no schools, parks or recreation facilities in close proximity.*

*Views to the site from Tattersall Road are limited as there is an existing 4m fence along the front (northern end) of number 45 Tattersall Road as well as landscape plantings. This sound wall will prevent views of the proposed new non-ferrous processing building from Tattersall Road. Small modifications are proposed to the sound wall, including the extension of the dust screen on the western end of the wall, however these changes are only very minor.*

*It is therefore concluded that the proposed development will not result in significant visual impacts in the vicinity of the site or neighbouring areas. Notwithstanding a concept landscape plan has been developed (refer to Annex M), which will provide for plantings of native tree, shrub and grass species along the side boundaries, particularly the frontage with Tattersall Road, which will complement and enhance existing vegetation.*

The existing vegetation at 45 Tattersall Road immediately adjacent to the existing acoustic fence wall is clearly more than triple the height of the existing 4m high solid component of the acoustic fence at the Tattersall Road frontage on No. 45, refer to Photograph 1.



**Photograph 1:** View of site frontage to 45 Tattersall Road

**Source:** Higgins Planning

We estimate that given the existing trees and vegetation are well established, with the existing trees being at least 12m tall and currently providing significant screening of the existing fence and processing plant from being readily viewed from Tattersall Road.

The location of modified Building L will be similar to that of the approval which means that it is located where the existing trees screening is at its more broadly spread with few “gaps” between the existing trees, refer to Photographs 2 and 3.



**Photograph 2:** View of site frontage to 45 Tattersall Road

**Source:** Higgins Planning



**Photograph 3:** View of site frontage to 45 Tattersall Road

**Source:** Higgins Planning

The original DA was accompanied by a landscape concept plan which seeks to enhance the ground covers and landscaping of the portion of the site between the site boundary and the existing acoustic wall fence of the land at 45 Tattersall Road.

In addition, condition B39 of the existing consent requires a Landscape Management Plan to be prepared to the satisfaction of DP&E. This Landscape Management Plan will propose to maintain the existing treescape at the site frontage of 45 Tattersall Road and as such while the height of Building L is proposed to be increased, this structure will not be readily visible from Tattersall Road.

It is considered that the visual impact assessment included within the original EIS is generally unchanged, the proposed changes are minimal and are considered generally consistent with the original EIS and therefore would not result in any significant adverse impacts to the existing treescape. The proposed modification as proposed will not result in any significant adverse impacts to the existing streetscape which warrant refusal of the application.

***4.2.11.3 Assessment of noise including demonstrating that moving the acoustic barrier will not result in any additional noise impacts***

The applicant has sought advice from their acoustic consultants at Renzin Tonin who have assessed the changes proposed in this modification application and concluded:

*A review of the proposed Section 96 design changes to the acoustic treatment for Kings Park Waste Metal Recovery, Processing and Recycling Facility showed that predicted noise levels at the identified receiver locations will be the same or lower than presented in the previous report. All identified receiver locations were found to comply with the nominated noise criteria in the previous report, and with the Section 96 design changes all identified receiver locations will comply with the nominated noise criteria.*

A copy of this advice is enclosed at **Appendix B**.

***4.2.11.4 Assessment of air quality and whether changing the location of the roller shutter doors will affect air quality***

A number of detailed air quality assessment reports were submitted in response to submissions and were considered acceptable associated with the original approval.

There are no changes to the approved operations of the site which will impact the air quality assessment outcomes previously supplied with the original development application, and therefore there is no need to update the existing reports.

***4.2.11.5 Assessment of the swept paths***

The site plan included at **Appendix A**, demonstrates the movement of trucks through the site including the swept path movements. These swept path movements demonstrate that trucks are capable of manoeuvring through the site and that the proposed minor amendment will not result in unacceptable truck movements.

#### **4.2.11.6 Assessment of the soil and water management plan to confirm whether any revisions would be required**

It is the applicant's opinion that a further soil and water management plan at this stage of the development process is premature, particularly given that the assessment of soil and water management have already been imposed as conditions on the existing development consent and this application does not seek to modify any of those conditions which are required to be satisfied prior to issue of a Construction Certificate or commencement of construction. The applicant has already been liaising with staff at DP&E to address the conditions as imposed in Development Consent No. SSD 5041 inclusive of the following conditions:

##### **Water Management Plan**

- B4. Prior to the commencement of construction of the Development, the Applicant shall prepare a Water Management Plan to the satisfaction of the Secretary. The plan must:
- a) be prepared by a suitability qualified and experienced person(s) in consultation with the EPA;
  - b) include a detailed site water balance;
  - c) include details of water management, monitoring and incident response arrangements;
  - d) include the details of the:
    - (i) Water Management System for the site (see Condition B6);
    - (ii) Water Management System commissioning, including the time frames for each stage of the commissioning (see Condition B7);
    - (iii) Water Treatment Plant Trial, if required (see Condition B8);
    - (iv) erosion and sediment controls (see Condition B9);
    - (v) bunding (see Condition B10);
    - (vi) flood management (see Condition B11); and
    - (vii) clean water runoff areas that discharge direct to stormwater without treatment (i.e. car parks and roofs).
- B5. The Applicant shall carry out the Development in accordance with the Water Management Plan approved by the Secretary (as revised and approved by the Secretary from time to time), unless otherwise agreed by the Secretary.

And

##### **Water Management System commissioning**

- B7. The Applicant shall commission the Water Management System prior to discharging any water from the site. The commissioning must:
- a) be completed within 2 years from the date of this consent, or within such other time agreed in writing by the Secretary;
  - b) be undertaken by a suitability qualified and experienced person(s) in consultation with the EPA;
  - c) include a program for acquiring baseline data of receiving waters and the establishment of site specific stormwater discharge criteria in the EPL;
  - d) including testing of the performance of all components of the Water Management System, including the primary, secondary, and tertiary treatment systems;
  - e) identify and implement changes to the Water Management System that may be necessary to achieve compliance with the discharge criteria in the EPL; and
  - f) include off-site trials of treatment technologies if necessary.

##### **Water Treatment Plant trial**

- B8. As part of commissioning the Water Management System, the Applicant may implement off-site trials of components of the Water Management System. Any trial must be conducted by a suitably qualified and experienced person(s) in consultation with the EPA.

##### **Erosion and sediment control**

- B9. The Applicant shall implement erosion and sediment control measures on-site in accordance with *Managing Urban Stormwater: Soils and Construction Vol. 1* (Landcom, 2004).

##### **Bunding**

- B10. The Applicant shall store all chemicals, fuels and oils used on-site in appropriately banded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's *Storing and Handling Liquids: Environmental Protection – Participant's Manual 2007*.

#### **Imported soil**

B12. The Applicant shall:

- a) ensure that only VENM, or ENM, or other material approved in writing by the EPA is used as fill on the site;
- b) keep accurate records of the volume and type of fill to be used; and
- c) make these records available to the Department upon request.

#### **Contamination**

B13. Prior to commencing any excavation works, the Applicant shall:

- a) identify all potential contaminants that could be disturbed, mobilised and discharged to receiving waters;
- b) detail the procedures for testing, classifying, handling, storing and disposing of contaminated water, soils and/or groundwater encountered in excavations, in particular during excavation of the stormwater detention basin; and
- c) detail the measures for periodically testing surface water run-off that may accumulate in excavations, and the procedures for off-site disposal of contaminated water.

B14. The Applicant shall provide a contamination report to the Department detailing any contamination investigation carried out in the immediate vicinity of the existing detention basin. This report shall be provided to the Department on completion of the works to upgrade the detention basin.

#### **Noise Management Plan**

B29. Prior to the commencement of construction of the Development, the Applicant shall prepare a Noise Management Plan to the satisfaction of the Secretary. The plan must:

- a) be prepared by a suitably qualified and experienced persons(s) in consultation with the EPA;
- b) describe the measures that would be implemented to ensure:
  - (i) all reasonable and feasible measures are employed to minimise noise impacts;
  - (ii) the installation and maintenance of appropriate physical noise barriers;
  - (iii) air handling devices are designed and located to minimise noise impacts;
  - (iv) truck drivers are aware of suitable truck noise mitigation measures;
  - (v) contingency measures are deployed to minimise impacts should an exceedence of the criteria occur or appear likely to occur; and
  - (vi) compliance with the relevant conditions of this consent;
- c) include a Noise Monitoring Program to evaluate the performance of the Development; and
- d) include a protocol to determine the occurrence of an exceedence of the criteria in this consent should such an exceedence occur.

#### **Landscaping**

B39. Prior to the commencement of construction of the Development, the Applicant shall prepare a Landscape Management Plan to the satisfaction of the Secretary. The plan shall:

- a) be prepared by a suitably qualified and experienced person(s);
- b) detail the landscaping measures including vegetation that would be implemented to minimise the visual impact of the Development, particularly from adjoining premises and public vantage points;
- c) describe the measures to be implemented to protect and retain the mature trees along the northern boundary of the site; and
- d) include measures for monitoring and maintenance of revegetated areas.

B40. The Applicant shall carry out the Development in accordance with the Landscape Management Plan approved by the Secretary (as revised and approved by the Secretary from time to time), unless otherwise agreed by the Secretary.

In addition, a number of conditions have been imposed which relate to the operational management of the site including:

#### **Construction Environmental Management Plan**

- C1. Prior to the commencement of construction of the Development, the Applicant shall prepare a Construction Environmental Management Plan to the satisfaction of the Secretary. The Plan must:
- be prepared by a suitably qualified and experienced person(s);
  - describe all activities to be undertaken on the site during construction, including a clear indication of construction stages;
  - identify the statutory approvals that apply to the Development;
  - outline all environmental management practices and procedures to be followed during construction (e.g. construction traffic management and construction noise and vibration management), including all reasonable and feasible mitigation measures to protect the amenity of the surrounding environment;
  - detail how the environmental performance of construction will be monitored, and what actions will be taken to address identified adverse environmental impacts;
  - describe of the roles and responsibilities for all relevant employees involved in construction;
  - include arrangements for community consultation and complaints handling procedures during construction; and
  - consolidate the construction related parts of any management plans and monitoring programs required in the conditions of this consent;

#### **Operational Environmental Management Strategy**

- C3. Within 6 months of the date of this consent, the Applicant shall prepare an Operational Environmental Management Strategy to the satisfaction of the Secretary. This strategy must:
- be prepared by a suitably qualified and experienced person(s);
  - provide a strategic framework for environmental management of the Development;
  - identify the statutory approvals that apply to the Development;
  - describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the Development;
  - describe in general how the environmental performance of the Development would be monitored and managed; and
  - describe the procedures that would be implemented to:
    - keep the local community and relevant agencies informed about the operation and environmental performance of the Development;
    - receive, handle, respond to, and record complaints;
    - resolve any disputes that may arise;
    - respond to any non-compliance; and
    - respond to emergencies.

Given the applicant has already been liaising with DP&E on soil, water and other environmental management considerations for the site, the applicant considers that the need for a further report associated with this Section 96 application is not warranted. Should this application be approved the management reports will be updated and this process was already envisaged as is demonstrated in condition B5 detailed above.

#### **4.2.11.7 Access, traffic and parking**

No change is proposed to the location of approved access and egress points in and out of the site, nor is any change proposed to the general movement of trucks through the site and the location of parking spaces, with this application compared to the approval. Rather, a minor change is proposed to the location of the weigh bridge entering the site and egressing the site.

#### **4.2.11.8 Public domain**

No changes are proposed to the public domain as a result of the proposed modifications.

#### **4.2.11.9 Utilities**

No additional matters arise with respect to the proposed modification when compared to the original DA. Therefore, no adverse impact arises from the Section 96.

#### ***4.2.11.10 Heritage***

No change with this application.

#### ***4.2.11.11 Water***

The proposed modification is not considered likely to give rise to a change in the approved water management. The relevant water management plan required by condition B4 can be updated accordingly upon achieving an approval. Therefore, no adverse impact arises from the Section 96.

#### ***4.2.11.12 Air and microclimate***

The proposed modification is not considered likely to give rise to a change in the approved microclimate. Therefore, no adverse impact arises from the Section 96.

#### ***4.2.11.13 Flora and fauna***

No new assessable matters arise with the proposed modification. Therefore, no adverse impact arises from the Section 96.

#### ***4.2.11.14 Waste***

No change with this application.

#### ***4.2.11.15 Energy***

No new energy requirements and provisions will result from the proposed modification compared to that which was already approved. Therefore, no adverse impact arises from the Section 96.

#### ***4.2.11.16 Natural hazards***

It is considered that the proposed modification will not give rise to any new assessable matter which was considered acceptable in the original assessment and issuing of Development Consent No. SSD 5041.

#### ***4.2.11.17 Social impact in the locality***

The S96 will not result in any new matters associated with social impacts. As such, it is considered that the proposed Section 96(1A) is acceptable with regards to social impact.

#### ***4.2.11.18 Economic impact in the locality***

The S96 will not result in any new matters associated with economic impacts, other than the ability to commence early works so as the timing for the delivery of the project is more efficient.

#### ***4.2.11.19 Cumulative impacts***

The nature of the modification is such that it results in a development which is substantially the same as the approved development. It is considered that the proposed modification is minor in

nature and the use of the site will not be changed, and as such there will not be any cumulative impacts arising from the proposed modification to warrant refusal.

#### **4.3 SECTION 79C(1)(C) SITE SUITABILITY**

The site is suitable for the proposed modifications in the following respects:

- a. It is located on land zoned IN1 General Industrial which permits the metal recycling processing plant and its expansion and associated ancillary development; and
- b. There are no environmental constraints of such significance as to preclude the proposed modified drawing and condition.

#### **4.4 SECTION 79C(1)(E) THE PUBLIC INTEREST**

The proposed modification is in the public interest in providing for a more efficient delivery of the project in order to support the local community expectations and the efficient construction programme for the site, without any unreasonable impact on the environment.

#### **4.5 SECTION 91A OF THE EP&A ACT - INTEGRATED DEVELOPMENT**

The provisions of Section 91 of the EP&A Act states:

***91 What is “integrated development”?***

*(1) Integrated development is development (not being State significant development or complying development) that, in order for it to be carried out, requires development consent and one or more of the following approvals:*

Under the provisions of Section 91A of the EP&A Act, where a proposed development triggers the requirements for an approval from a State Government department, agency or authority a proposal is integrated.

Therefore, the S96 may trigger the need for an integrated referral to the EPA.

## 5. SUMMARY AND CONCLUSION

This application seeks to modify Development Consent No. SSD 5041, under the provisions of Section 96(1A) of the EP&A Act. The nature of the proposed modifications is such that the changes do not trigger any new assessment considerations under the Blacktown *Local Environmental Plan 2015* or other EPIs applying to the site.

It is considered that the nature of the modification is minor, will have minimal environmental impact, will result in a development which is substantially the same as that which was approved on the land, and as such the modification is consistent with Section 96(1A) and can be supported by DP&E.

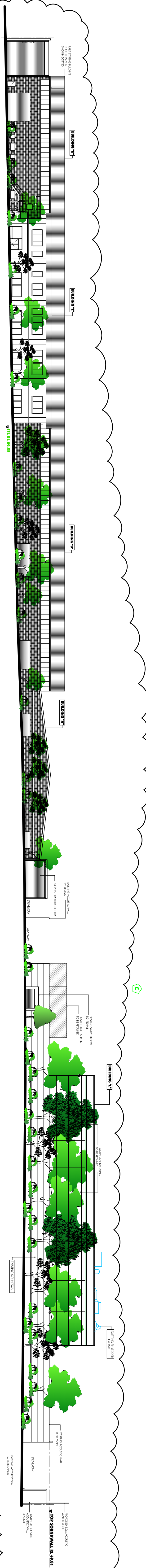
We look forward to DP&E's favourable consideration of this application and would be pleased to discuss any aspects of the proposal with DP&E during consideration of this application.

## **APPENDIX A**

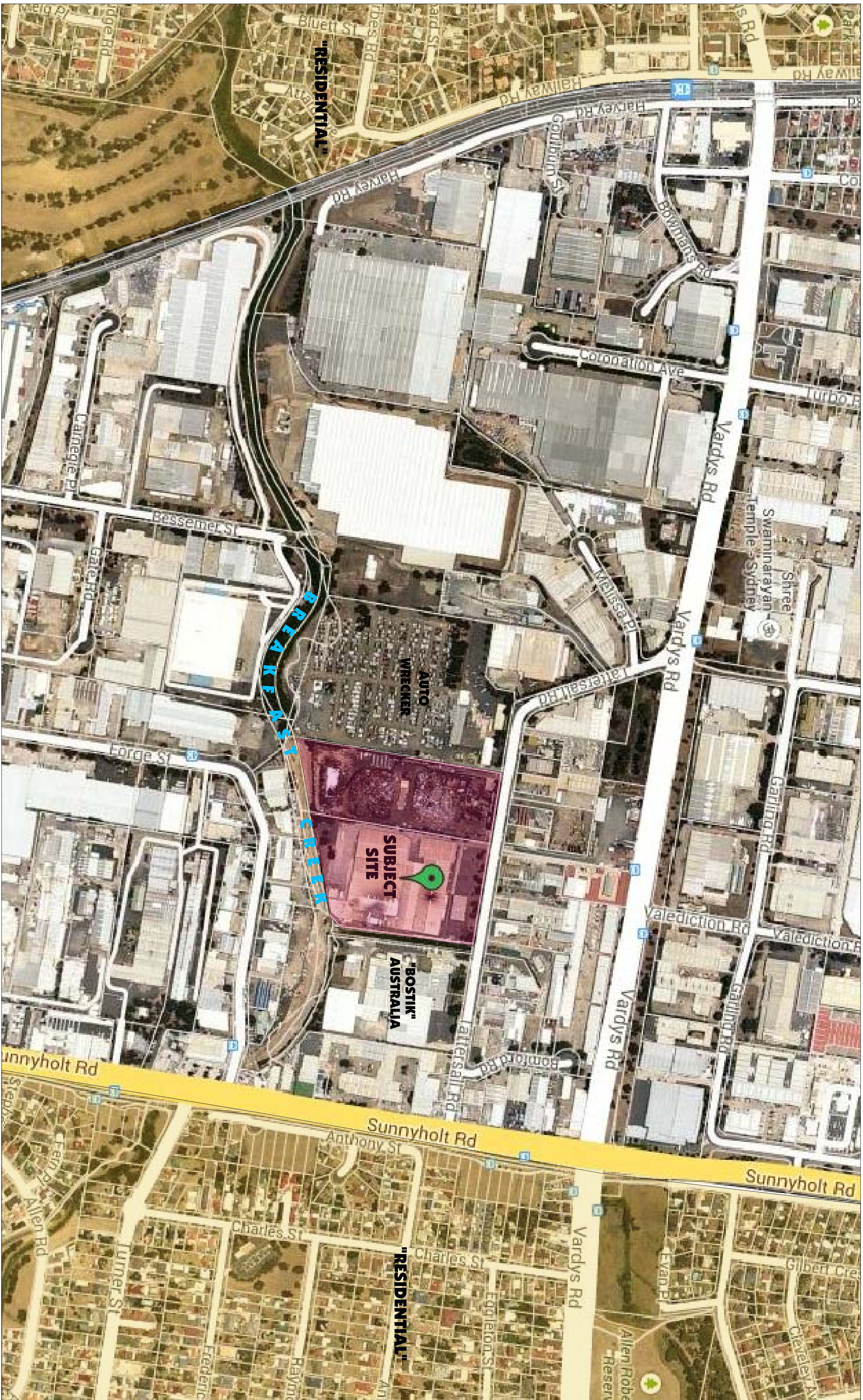
**Amended architectural drawings (reduced)**





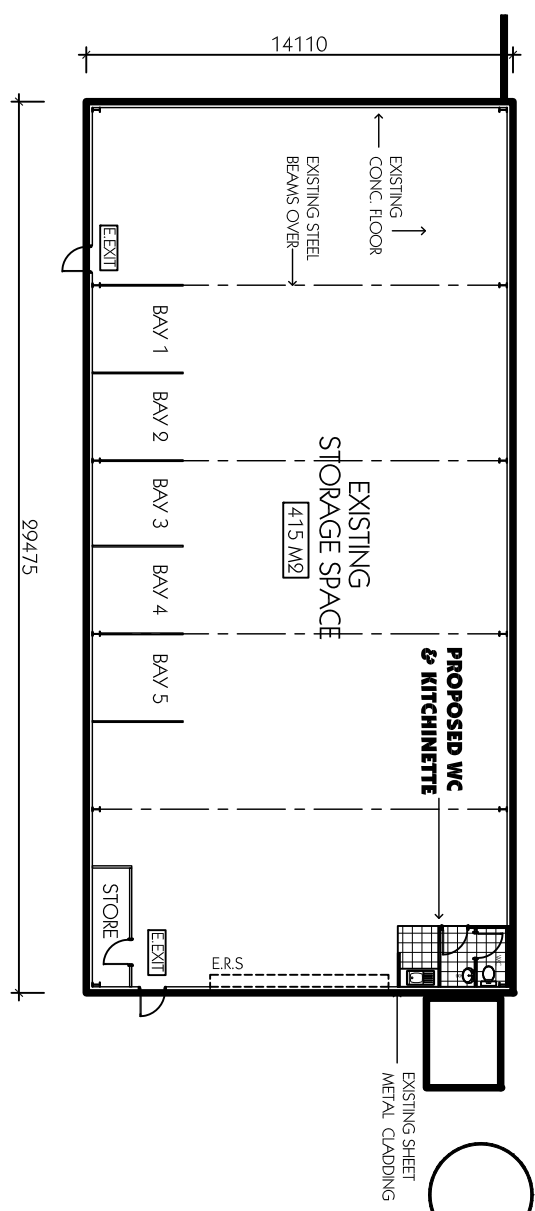


STREETVIEW ELEVATION  
TATTERSALL RD



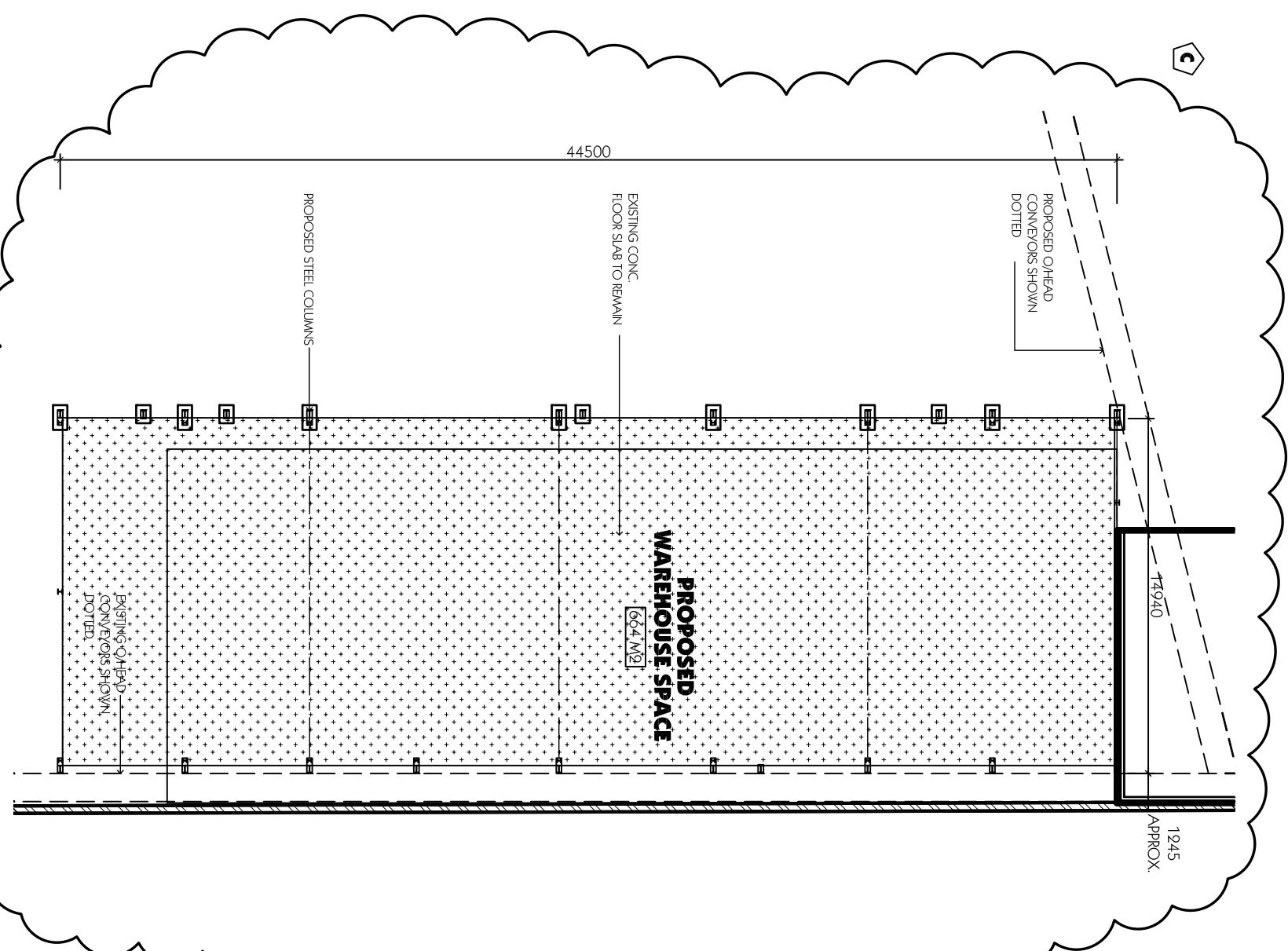
SITE ANALYSIS PLAN  
NTS

| Issue | By | Description                | Date     | Consultants | Date                 | Scale     | Client                                                                                                                                                                                                   | Project No.                                                             |
|-------|----|----------------------------|----------|-------------|----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| A     | CZ | FOR DA                     | 5/03/14  |             | FEBRUARY 2014        | 1:500 UNO | ALGORRY ZAPPA & ASSOCIATES PTY. LTD.                                                                                                                                                                     | PROPOSED ALTERATIONS TO EXISTING RECYCLING CENTRE                       |
| B     | CZ | FOR SECTION 96 APPLICATION | 05/07/16 |             | JULY 2014            | Drawn     | Consulting Civil & Structural Engineers & Building Designers<br>P.O. Box 852, Liverpool Business Centre NSW 1570<br>Tel: 02 9371 1000<br>Email: alan@algorryzappa.com.au<br>Web: www.algorryzappa.com.au | LOT 2 DP550592 & LOT 5 DP7086 , No 23 & 45<br>TATTERSALL RD, KINGS PARK |
| C     | CZ | FOR SECTION 96 APPLICATION | 20/07/16 |             | CHECKED<br>CERTIFIED | CZAPPA    | SEAL & PARKER METAL                                                                                                                                                                                      | P4144                                                                   |
|       |    |                            |          |             |                      |           | DA                                                                                                                                                                                                       | 1049-13                                                                 |
|       |    |                            |          |             |                      |           |                                                                                                                                                                                                          | A102                                                                    |
|       |    |                            |          |             |                      |           |                                                                                                                                                                                                          | C                                                                       |

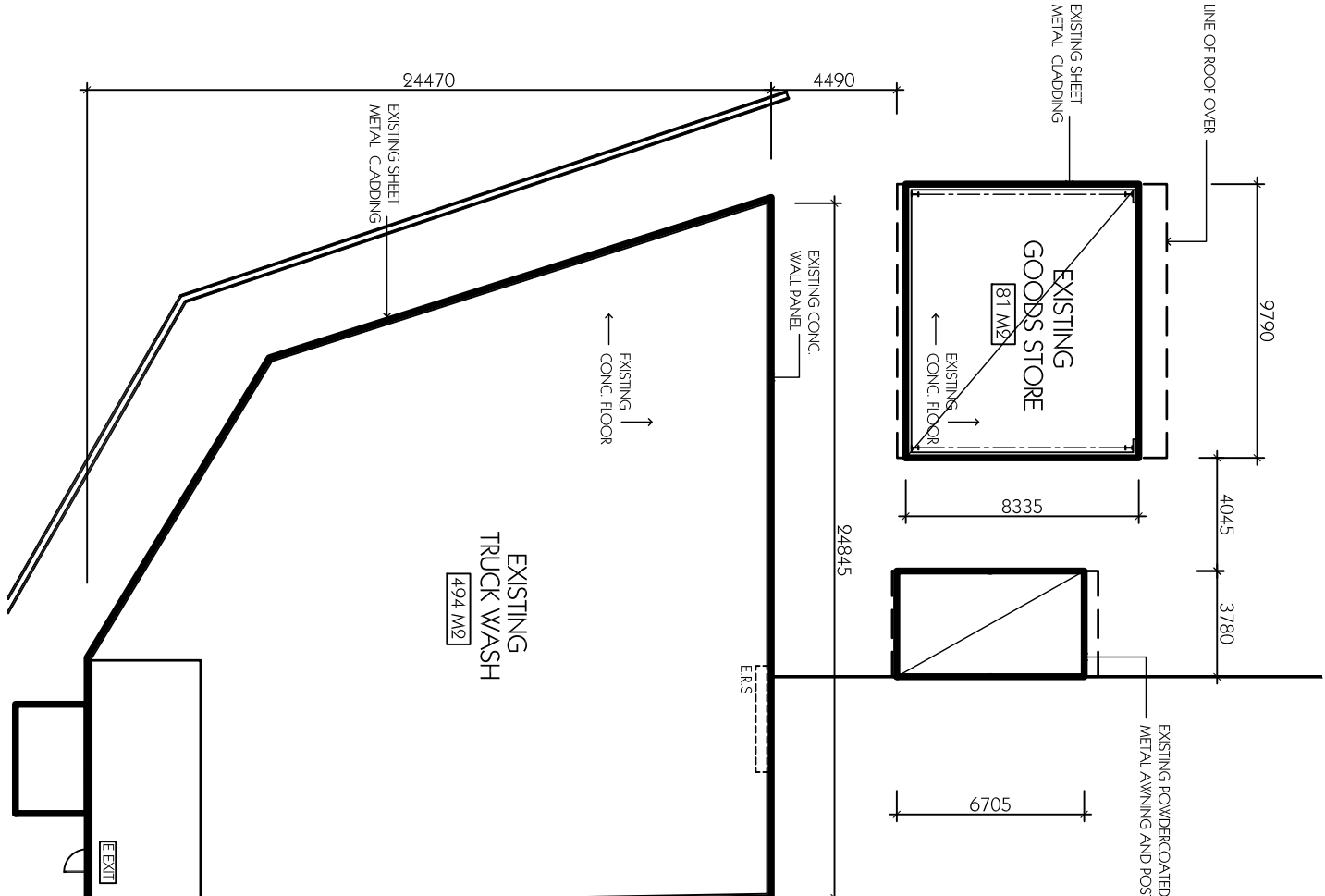


## BUILDING "D"

### STORAGE WORK SHED



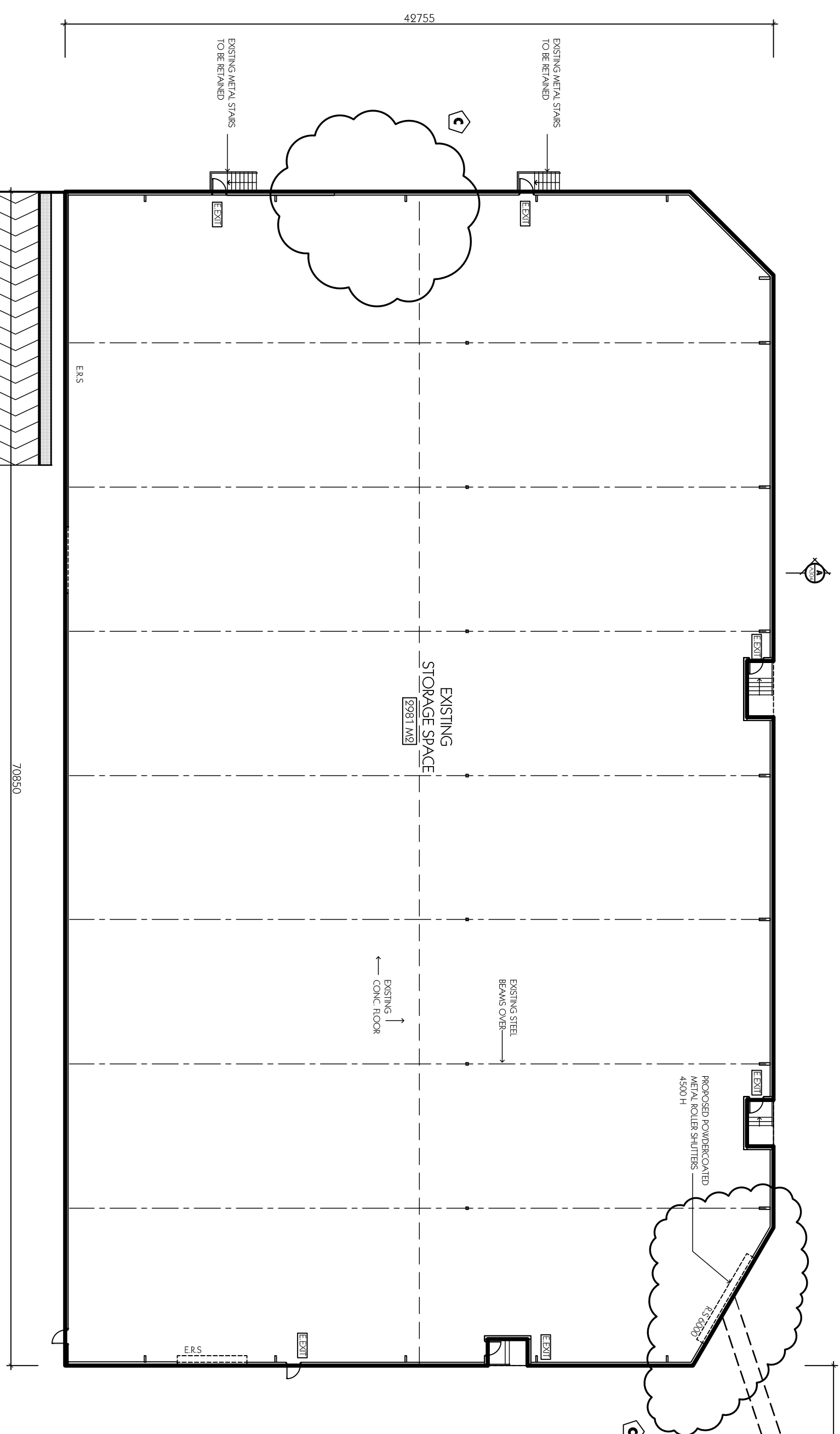
**BUILDING "L"** PROPOSED NON-FERROUS PROCESSING BUILDING



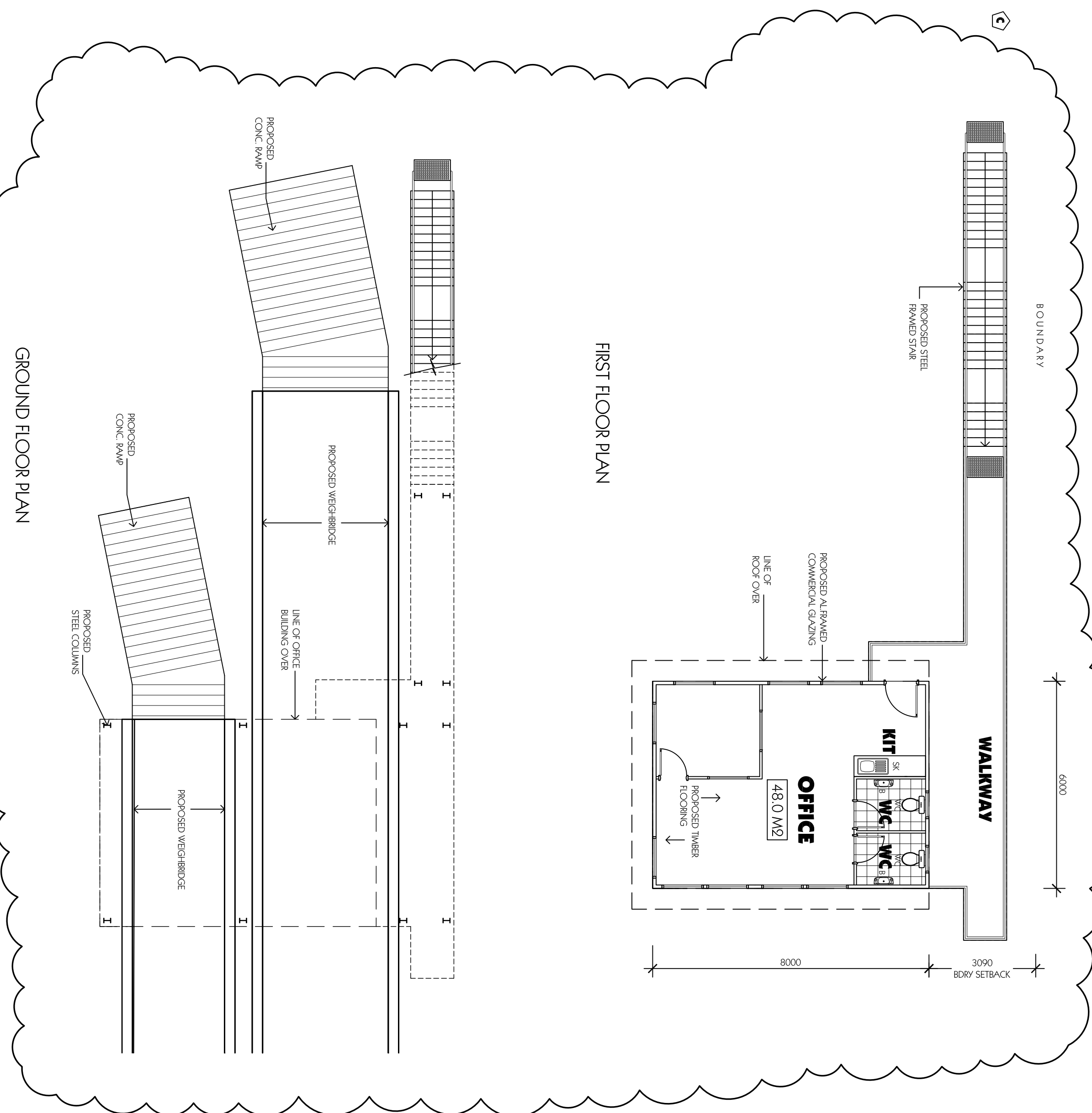
**BUILDING "F"** TRUCK WASH BUILDING

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**BUILDING "G,H"** DANGEROUS GOODS STORE & AWNING

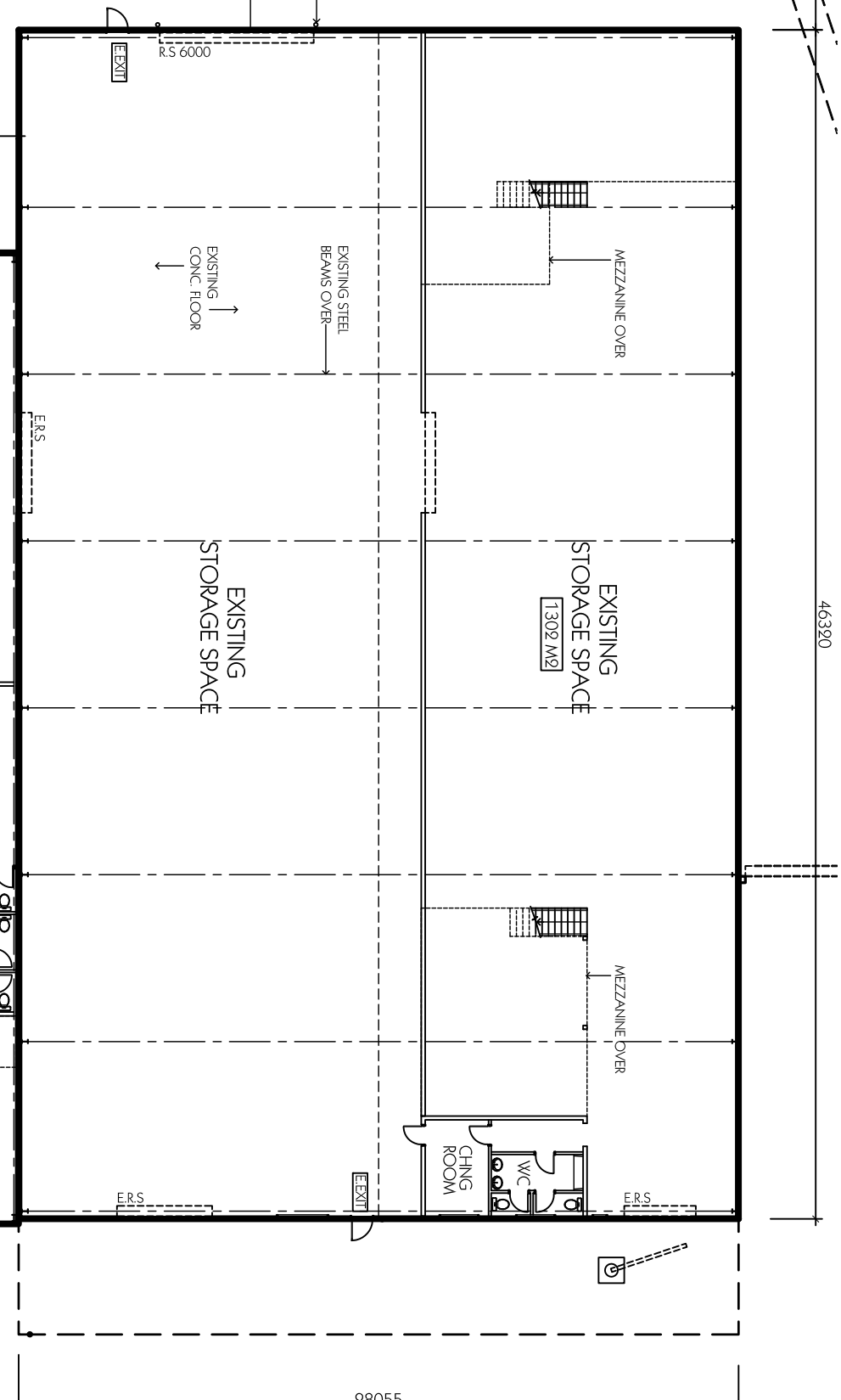


## **BUILDING "C"**

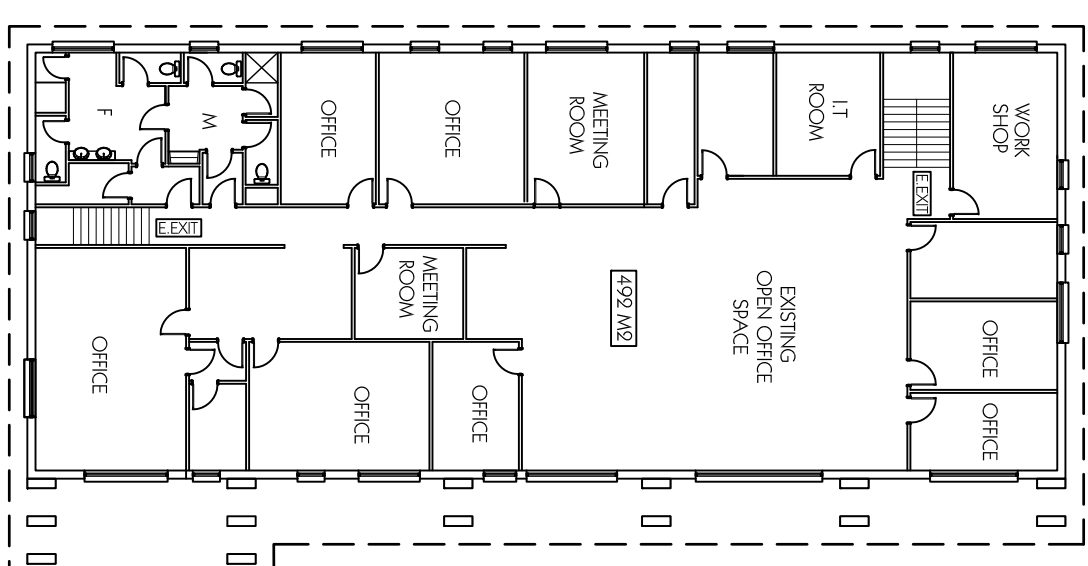
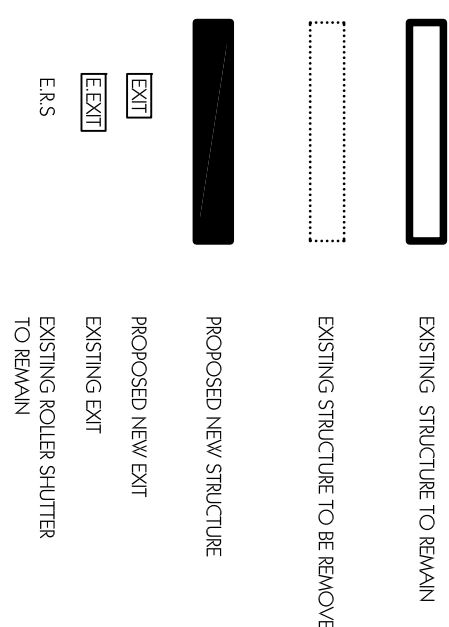


FIRST FLOOR PLAN

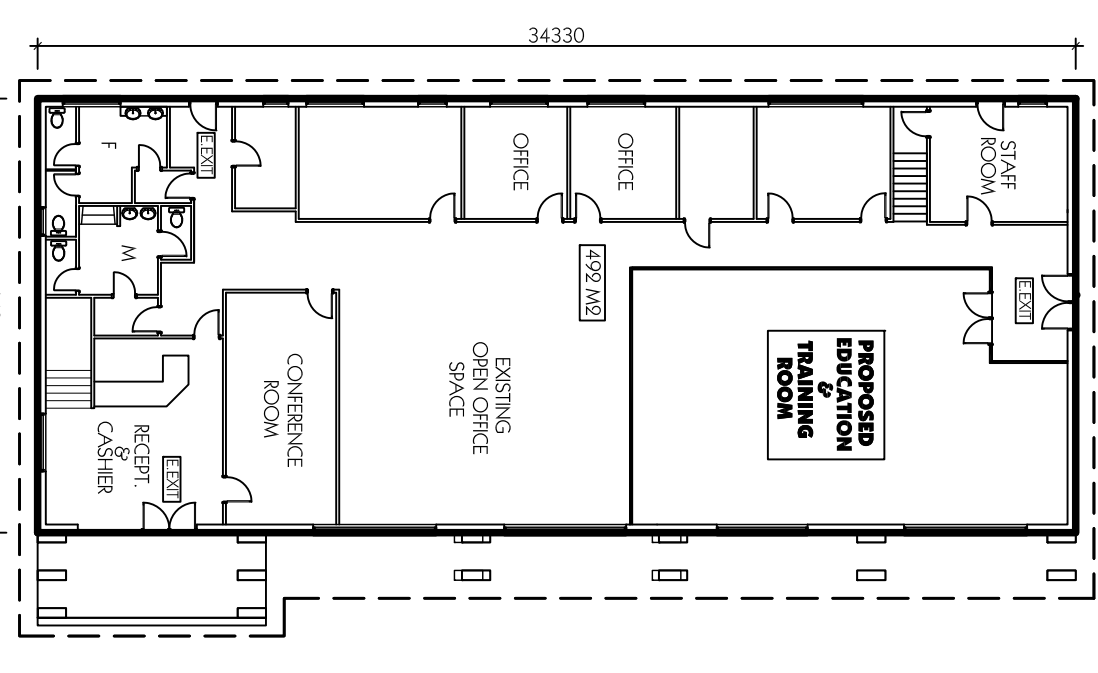
GROUND FLOOR PLAN



## LEGEND



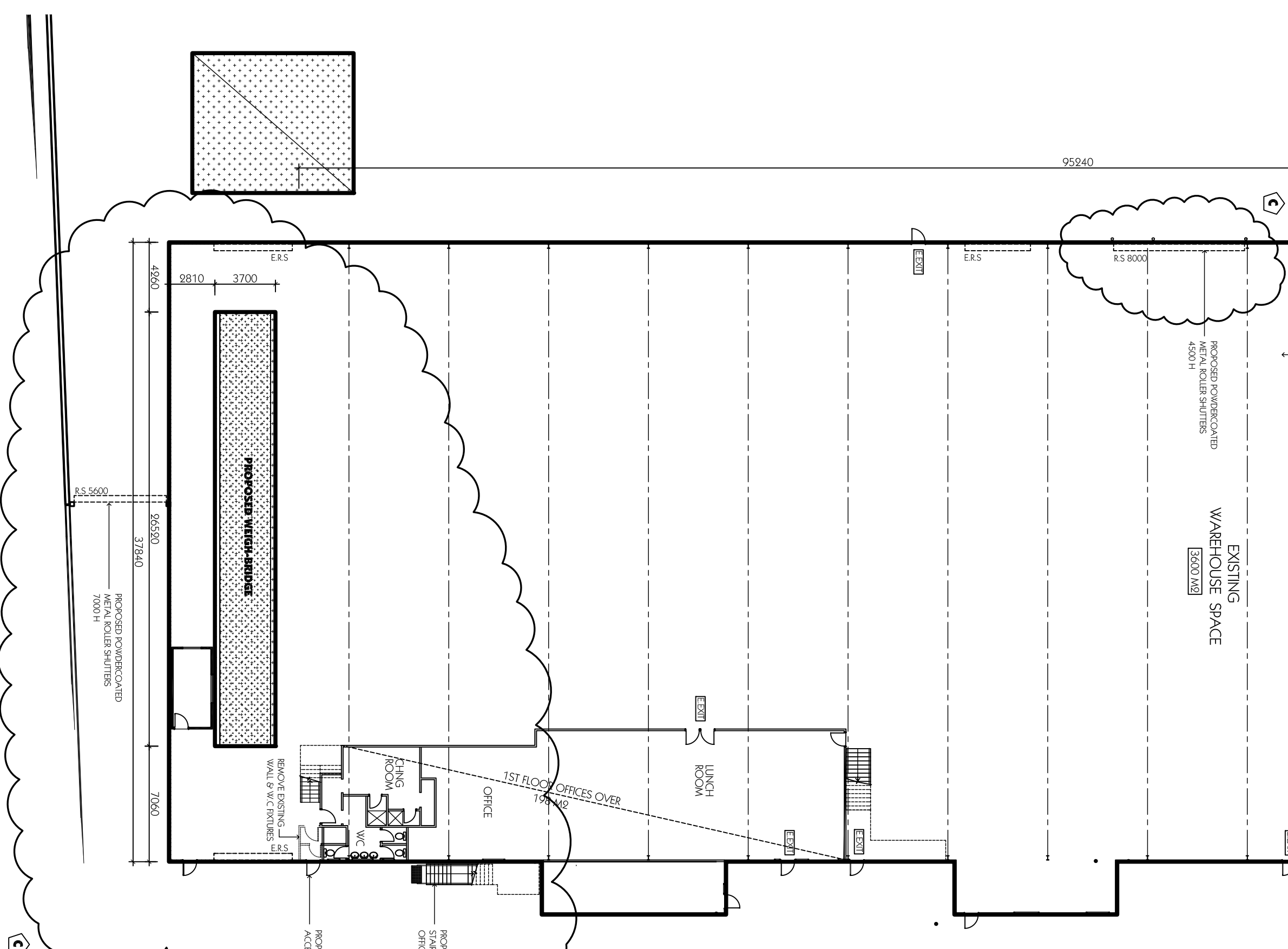
FIRST FLOOR PLAN



GROUND FLOOR PLAN

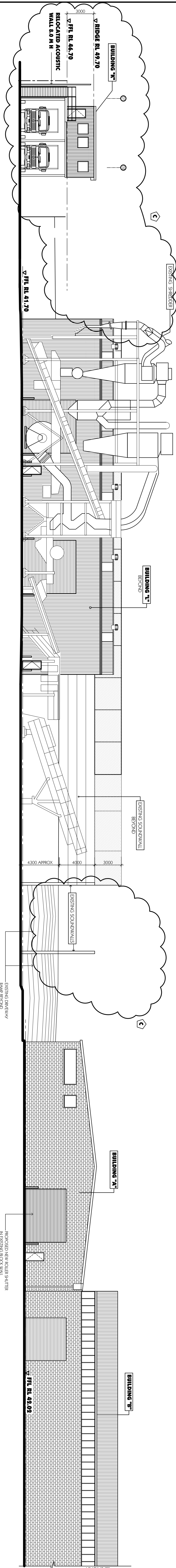
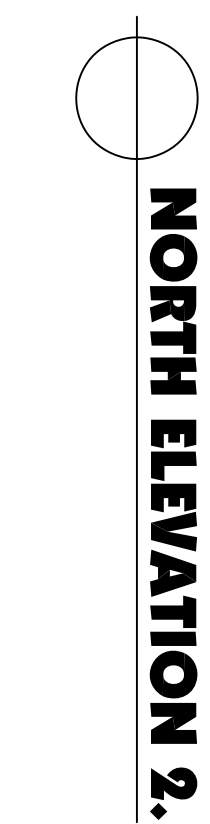
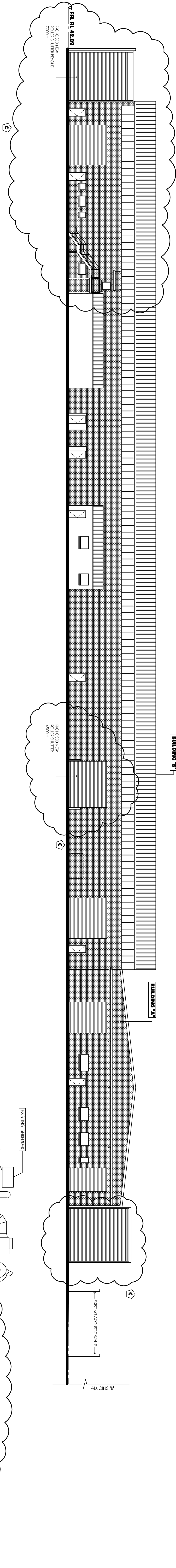
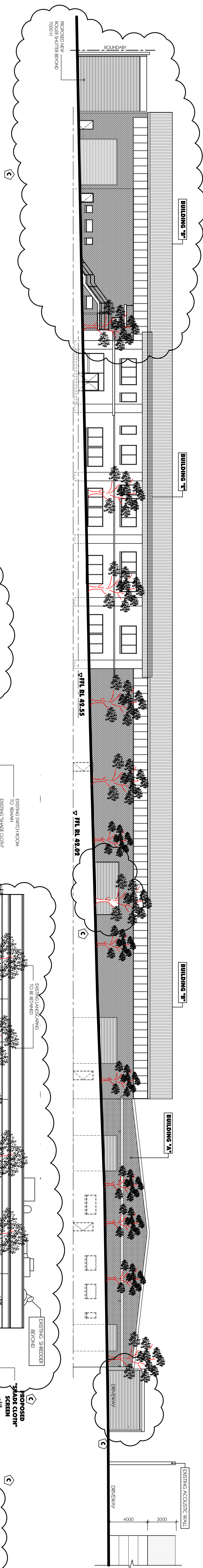
## BUILDING "E"

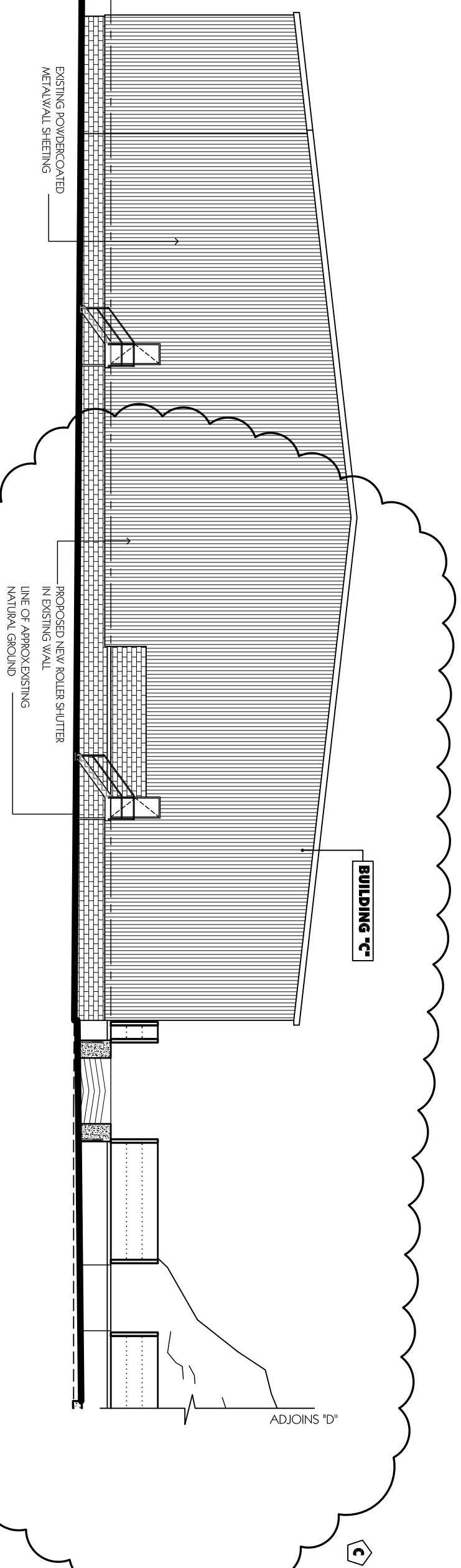
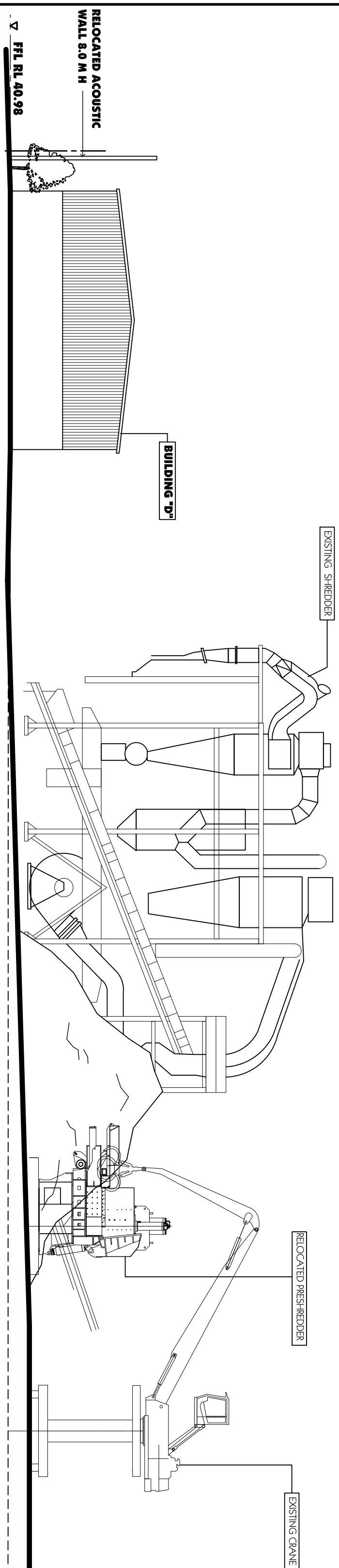
ADMIN. BUILDING



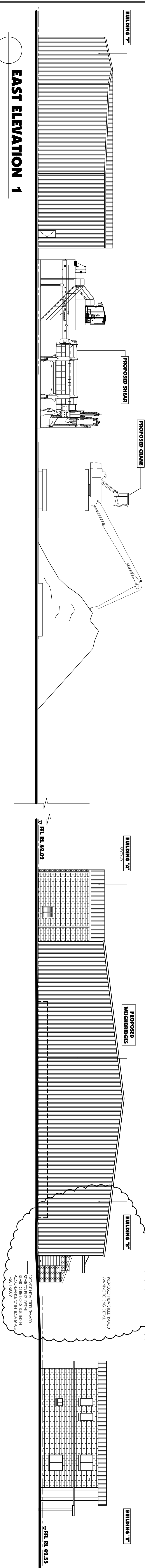
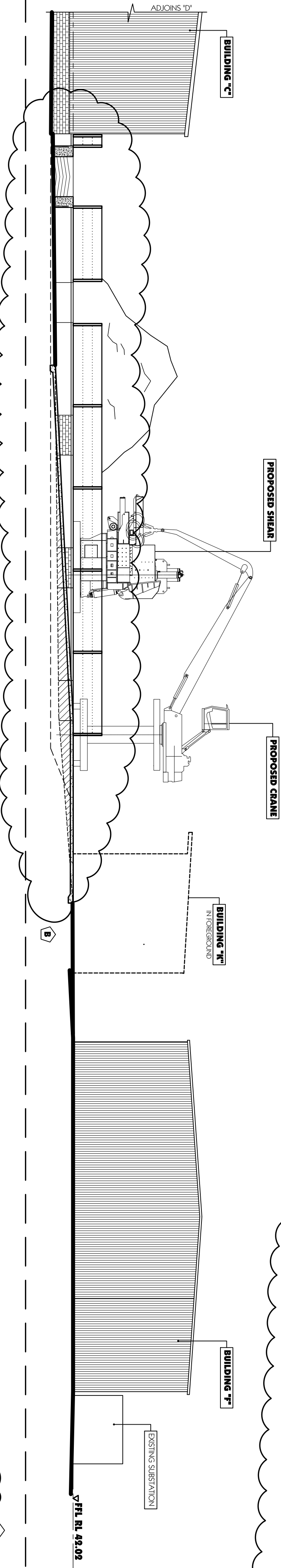
| BUILDING "A"     | BUILDING "B"           |
|------------------|------------------------|
| NON-FERROUS SHED | NON-FERROUS PROCESSING |

[illegible]

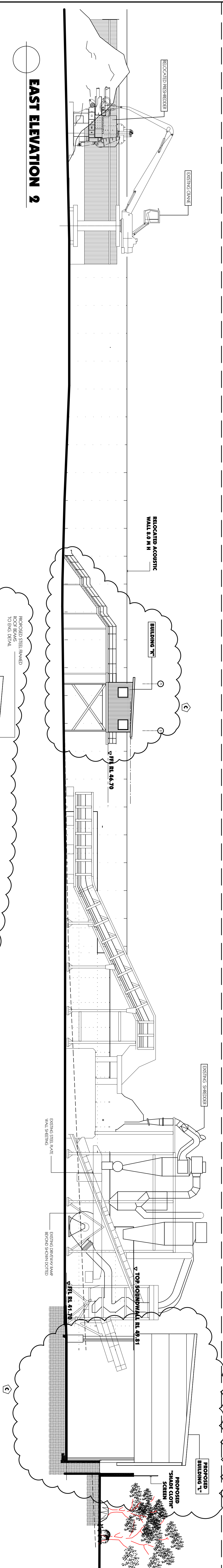
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## SOUTH ELEVATION 2

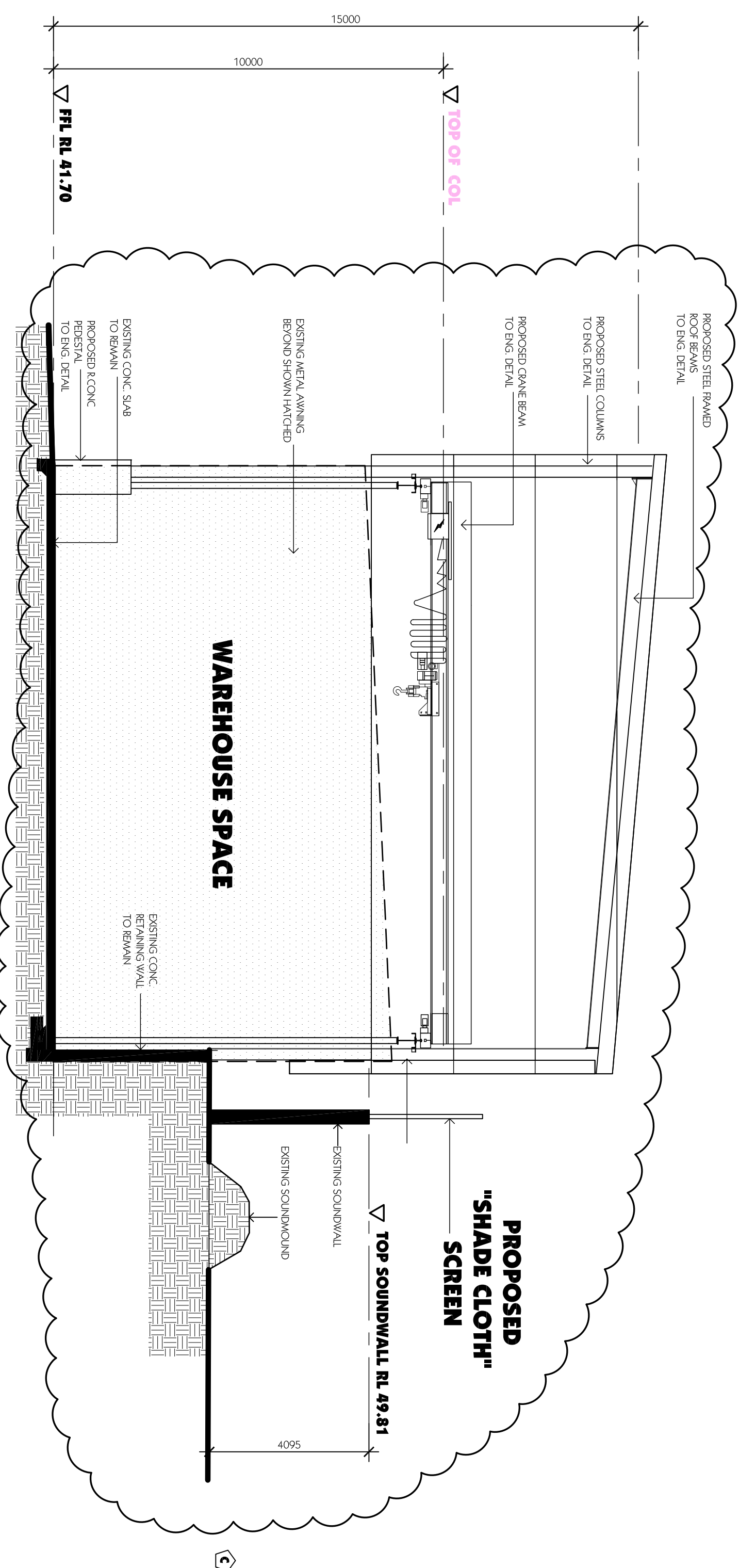


### EAST ELEVATION 1



## EAST ELEVATION 2

## SECTION

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## **APPENDIX B**

### **Acoustic Assessment**



10 August 2016

TG616-05F02 S96 Acoustic Letter (r1).docx

Sell & Parker Pty Ltd

Ms Catherine Maddox

catherinem@sellparker.com.au

From: William Chan [william.chan@renzotonin.com.au]

## **Kings Park Waste Metal Recovery, Processing and Recycling Facility - Section 96 Difference to Acoustic Impacts**

### **1 Introduction**

Renzo Tonin & Associates was engaged to review the proposed Section 96 design changes to the acoustic treatment for Kings Park Waste Metal Recovery, Processing and Recycling Facility located at 45 Tattersall Road, Kings Park. The purpose of this review is to determine the difference in the predicted noise levels presented in the "EIS Supplementary Noise and Vibration Impact Assessment", prepared by Renzo Tonin & Associates with reference TG616-03F01 dated 3 September 2015.

### **2 Section 96 Design Changes**

The following list of Section 96 design changes will potentially affect the acoustic impacts to the identified receiver locations:

- Increase the height of the acoustic fence along the western boundary from 4m to 8m height and a minor shift of the footprint of 1.8m to the west;
- Increase the height of the acoustic fences along the eastern boundary from 4m to 8m height;
- Increase the height of the acoustic fence along the eastern edge of the western driveway by 0.8m to 1.2m;
- Increase the height of the proposed Building 'L' (non-ferrous processing) from 10m to 15m height;
- Increase the footprint of Building "B" (non-ferrous processing) to the east in order to install the eastern exit weighbridge undercover;
- Roller door located on western side of Building 'A';
- Roller door located on eastern side of Building 'B';

- New roller door on northern side of Building 'B';
- Widened roller door on the southern side of Building 'B'; and
- Relocation of roller door of Building 'C' from the southern side to the north/eastern side.

### 3 Difference to Acoustic Impacts

The Section 96 design changes listed in Section 2 were updated in the CadnaA noise model used in the previous assessment. The resultant change in acoustic impacts for the identified receiver locations are shown in the table below.

**Table 3.1 – Difference to Predicted Noise Level Emission from Site Operations with Section 96 Design Changes**

| Receiver                                                                   | Change in Acoustic Impact |
|----------------------------------------------------------------------------|---------------------------|
| R1 - Residential Premises to the east - Sunnyholt Road                     | No change                 |
| R2 - Residential Premises to the north - Camorta Close                     | Reduction by 3dB(A)       |
| R3 - Residential Premises to the west - Railway Road                       | Reduction by 3dB(A)       |
| R4 - Neighbouring Industrial Premises to the north - 38 Tattersalls Road   | Reduction by 2dB(A)       |
| R5 - Neighbouring Industrial Premises to the west - 57-69 Tattersalls Road | Reduction by 4dB(A)       |
| R6 - Neighbouring Industrial Premises to the east - 21 Tattersalls Road    | Reduction by 6dB(A)       |
| R7 - Neighbouring Industrial Premises to the south - 38 Forge Street       | No change                 |

It can be seen from the table above that with the Section 96 design changes, the predicted noise levels to identified receivers will be the same or lower than the noise levels presented in the previous assessment. All receivers were predicted to comply with the nominated criteria in the previous assessment and therefore all receivers are predicted to comply with the Section 96 design changes.

### 4 Conclusion

A review of the proposed Section 96 design changes to the acoustic treatment for Kings Park Waste Metal Recovery, Processing and Recycling Facility showed that predicted noise levels at the identified receiver locations will be the same or lower than presented in the previous report. All identified receiver locations were found to comply with the nominated noise criteria in the previous report, and with the Section 96 design changes all identified receiver locations will comply with the nominated noise criteria.

Regards,



William Chan  
Senior Consultant

## APPENDIX A      Glossary of terminology

The following is a brief description of the technical terms used to describe noise to assist in understanding the technical issues presented.

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Adverse weather    | Weather effects that enhance noise (that is, wind and temperature inversions) that occur at a site for a significant period of time (that is, wind occurring more than 30% of the time in any assessment period in any season and/or temperature inversions occurring more than 30% of the nights in winter).                                                                                                                                                                                                                                                                                    |
| Ambient noise      | The all-encompassing noise associated within a given environment at a given time, usually composed of sound from all sources near and far.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Assessment period  | The period in a day over which assessments are made.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Assessment point   | A point at which noise measurements are taken or estimated. A point at which noise measurements are taken or estimated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Background noise   | Background noise is the term used to describe the underlying level of noise present in the ambient noise, measured in the absence of the noise under investigation, when extraneous noise is removed. It is described as the average of the minimum noise levels measured on a sound level meter and is measured statistically as the A-weighted noise level exceeded for ninety percent of a sample period. This is represented as the L90 noise level (see below).                                                                                                                             |
| Decibel [dB]       | The units that sound is measured in. The following are examples of the decibel readings of every day sounds:<br>0dB The faintest sound we can hear<br>30dB A quiet library or in a quiet location in the country<br>45dB Typical office space. Ambience in the city at night<br>60dB CBD mall at lunch time<br>70dB The sound of a car passing on the street<br>80dB Loud music played at home<br>90dB The sound of a truck passing on the street<br>100dB The sound of a rock band<br>115dB Limit of sound permitted in industry<br>120dB Deafening                                             |
| dB(A)              | A-weighted decibels. The A- weighting noise filter simulates the response of the human ear at relatively low levels, where the ear is not as effective in hearing low frequency sounds as it is in hearing high frequency sounds. That is, low frequency sounds of the same dB level are not heard as loud as high frequency sounds. The sound level meter replicates the human response of the ear by using an electronic filter which is called the "A" filter. A sound level measured with this filter switched on is denoted as dB(A). Practically all noise is measured using the A filter. |
| dB(C)              | C-weighted decibels. The C-weighting noise filter simulates the response of the human ear at relatively high levels, where the human ear is nearly equally effective at hearing from mid-low frequency (63Hz) to mid-high frequency (4kHz), but is less effective outside these frequencies.                                                                                                                                                                                                                                                                                                     |
| Frequency          | Frequency is synonymous to pitch. Sounds have a pitch which is peculiar to the nature of the sound generator. For example, the sound of a tiny bell has a high pitch and the sound of a bass drum has a low pitch. Frequency or pitch can be measured on a scale in units of Hertz or Hz.                                                                                                                                                                                                                                                                                                        |
| Impulsive noise    | Having a high peak of short duration or a sequence of such peaks. A sequence of impulses in rapid succession is termed repetitive impulsive noise.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Intermittent noise | The level suddenly drops to that of the background noise several times during the period of observation. The time during which the noise remains at levels different from that of the ambient is one second or more.                                                                                                                                                                                                                                                                                                                                                                             |
| L <sub>Max</sub>   | The maximum sound pressure level measured over a given period.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| L <sub>Min</sub>   | The minimum sound pressure level measured over a given period.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| L <sub>1</sub>     | The sound pressure level that is exceeded for 1% of the time for which the given sound is measured.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| L <sub>10</sub>    | The sound pressure level that is exceeded for 10% of the time for which the given sound is measured.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| L <sub>90</sub>    | The level of noise exceeded for 90% of the time. The bottom 10% of the sample is the L90 noise level expressed in units of dB(A).                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                      |                                                                                                                                                                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Leq                  | The "equivalent noise level" is the summation of noise events and integrated over a selected period of time.                                                                                                                                                                                                                                   |
| Reflection           | Sound wave changed in direction of propagation due to a solid object obscuring its path.                                                                                                                                                                                                                                                       |
| SEL                  | Sound Exposure Level (SEL) is the constant sound level which, if maintained for a period of 1 second would have the same acoustic energy as the measured noise event. SEL noise measurements are useful as they can be converted to obtain Leq sound levels over any period of time and can be used for predicting noise at various locations. |
| Sound                | A fluctuation of air pressure which is propagated as a wave through air.                                                                                                                                                                                                                                                                       |
| Sound absorption     | The ability of a material to absorb sound energy through its conversion into thermal energy.                                                                                                                                                                                                                                                   |
| Sound level meter    | An instrument consisting of a microphone, amplifier and indicating device, having a declared performance and designed to measure sound pressure levels.                                                                                                                                                                                        |
| Sound pressure level | The level of noise, usually expressed in decibels, as measured by a standard sound level meter with a microphone.                                                                                                                                                                                                                              |
| Sound power level    | Ten times the logarithm to the base 10 of the ratio of the sound power of the source to the reference sound power.                                                                                                                                                                                                                             |
| Tonal noise          | Containing a prominent frequency and characterised by a definite pitch.                                                                                                                                                                                                                                                                        |