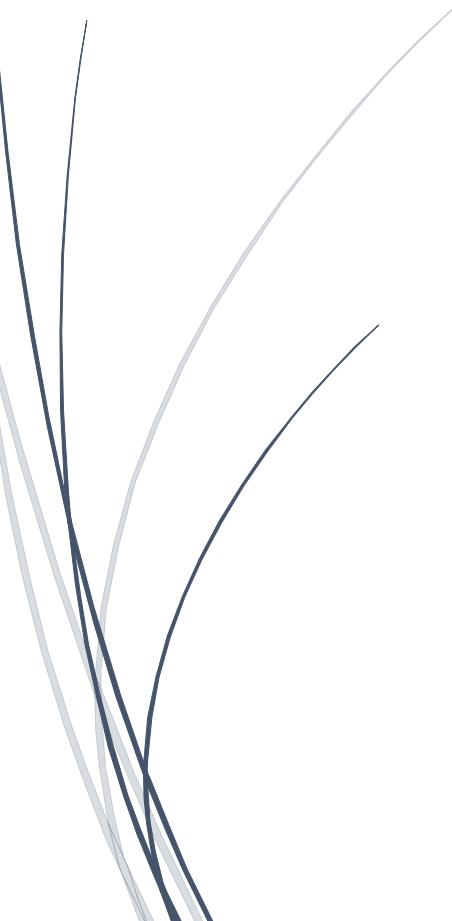


**CHATSWOOD EDUCATION PRECINCT – UPGRADES TO CHATSWOOD
PUBLIC SCHOOL & HIGH SCHOOL
SSD 9483**

DEMOLITION WORK PLAN

17 June 2021



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ACE CIVIL PTY LTD

REVISION REGISTER

| REVISION DATE | REVISION DESCRIPTION |
|---------------|--|
| 07/06/2021 | Revision 1: Original issue |
| 17/06/2021 | Revision 2: Re-issue - updated as per RCC comment |
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CEMP Condition Compliance Table

| Condition | Condition Requirements | Document/Sub-Plan Reference |
|-----------|---|---|
| B17 | Prior to the commencement of demolition, demolition work plans required by AS 2601-2001 The demolition of structures (Standards Australia, 2001) must be accompanied by a written statement from a suitably qualified person that the proposals contained in the work plan comply with the safety requirements of the Standard. The work plans and the statement of compliance must be submitted to the Certifier and Planning Secretary. | This demolition work plan has been prepared in accordance with AS2601-2001. The written compliance statement can be found in Appendix 2 The CV of the suitably qualified person who prepared the written statement can be found in Appendix 3 |

CONTENTS

| | | |
|---|----------------------------|----|
| 1 | INTRODUCTION | 4 |
| 2 | HOURS OF WORK | 6 |
| 3 | GUIDELINES AND LEGISLATION | 7 |
| 4 | BUILDING I | 8 |
| 5 | COLA STRUCTURES | 14 |
| 6 | BUILDING H | 20 |
| 7 | BUILDING D | 26 |
| 8 | APPENDICES | 31 |

1 INTRODUCTION

This Demolition Work Plan has been generated in compliance with *AS2601-2001 The Demolition of Structures* and the *NSW Code of Practice: Demolition Work August 2019*.

This plan collates key WHS, methodology and sequence information relevant to the demolition works that are being undertaken for the development works related to SSD 9483.

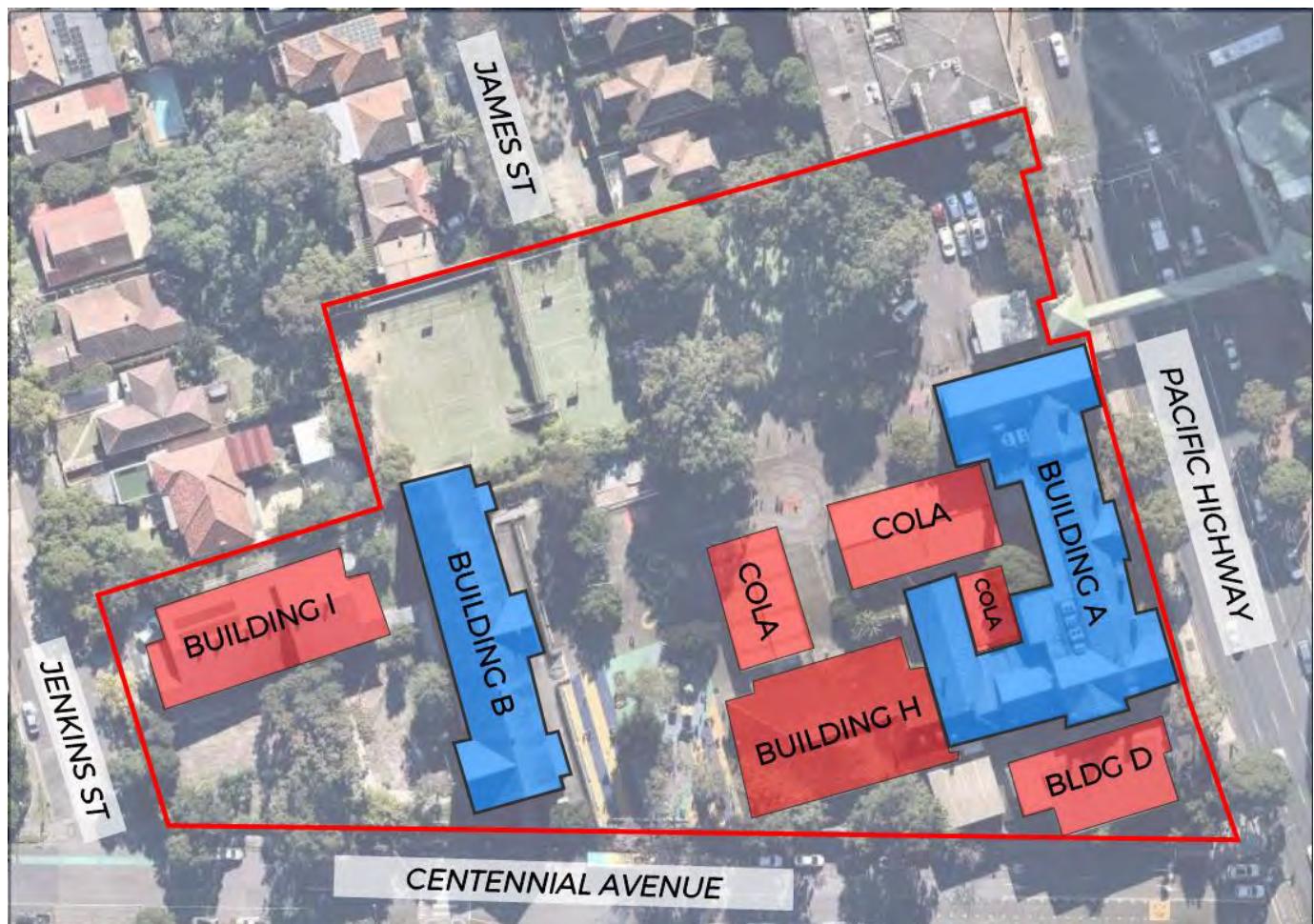
This plan does not duplicate a WHS Management Plan or SWMS, but may reference them.

The structures included in the SSD 9483 demolition works are listed below:

- Building I
- COLA Structures (Awnings)
- Building H
- Building D

For context, the (current) site plan shown below also shows all **structures to be demolished**, and existing **Buildings A and B**, which are to be retained during the SSD 9483 works.

The site where all SSD 9483 Demolition works will take place is located at 5 Centennial Avenue, Chatswood NSW 2067.



Within this plan, the following information will be provided for each structure:

From AS2601-2001 The Demolition of Structures

- a) *The location of the site on which the structure to be demolished stands.*
- b) *The overall height of the structure above ground level and the least distance from the structure to each site boundary (all to the nearest 0.5m).*
- c) *A brief description of the type of building (occupancy class), its structural support system services and the principal materials of its construction.*
- d) *A description of the methods of demolition proposed to be used and type of major equipment proposed for implementing those methods and the means of moving such equipment from floor to floor.*
- e) *A description of the methods proposed for handling and disposing of demolished materials and, in particular, of hazardous substances.*
- f) *A description of the proposed sequence of carrying out the demolition works and an estimate of the time, in days, that it is likely to take to complete all of each of the stages of the work.*
- g) *Details of protective measures, including overhead protection and scaffolding required by Clauses 1.5. and 1.7.*
- h) *The dimensions of the demolition exclusion zone shall be determined after considering existing conditions and work methods. Depending on the demolition method the zone may need to be larger than the demolition site during key stages of the demolition operation.*
- i) *Any other plans, illustrations, or written documents as may be necessary to clearly define or substantiate the proposals made under Items d) and g).*
- j) *Provision of a traffic management plan for the structure and site.*
- k) *Provision of an environmental management plan for the site and structure.*
- l) *Occupational health and safety system (see AS 4801)*

From NSW Code of Practice: Demolition Work August 2019

- *The location and condition of underground essential services including*
- *The location and condition of above ground essential services*
- *The location and condition of hazardous materials including asbestos*
- *The location of underground structures such as a basement, cellars or storage tanks*
- *Confined spaces where work will be undertaken*
- *The general condition of structures on adjoining properties*
- *The effect demolition may have on people working in adjoining properties or seeking entry to and exit from those properties, and*
- *The emergency arrangements, which should include equipment for the rescue of injured persons*

2 HOURS OF WORK

The site working hours will be as per the approved SSD 9483 Condition of Consent, which are copied below for clarity:

C5. Construction, including the delivery of materials to and from the site, may only be carried out between the following hours:

- a) Between 7am and 6pm, Mondays to Fridays inclusive; and
- b) Between 8am and 1pm, Saturdays

No work may be carried out on Sundays or public holidays.

C6. Notwithstanding condition C4, provided noise levels do not exceed the existing background noise level plus 5dB, works may also be undertaken during the following hours:

- a) between 6pm and 7pm, Mondays to Fridays inclusive; and
- b) between 1pm and 4pm, Saturdays.

C7. Construction activities may be undertaken outside of the hours in Condition C4 and C5 if required:

- a) by the Police or a public authority for the delivery of vehicles, plant or materials; or
- b) in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or
- c) where the works are inaudible at the nearest sensitive receivers; or
- d) where a variation is approved in advance in writing by the Planning Secretary or his nominee if appropriate justification is provided for the works.

C8. Notification of such construction activities as referenced in condition C6 must be given to affected residents before undertaking the activities or as soon as is practical afterwards.

C9. Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours:

- a) 9am to 12pm, Monday to Friday;
- b) 2pm to 5pm Monday to Friday; and
- c) 9am to 12pm, Saturday.

3 GUIDELINES AND LEGISLATION

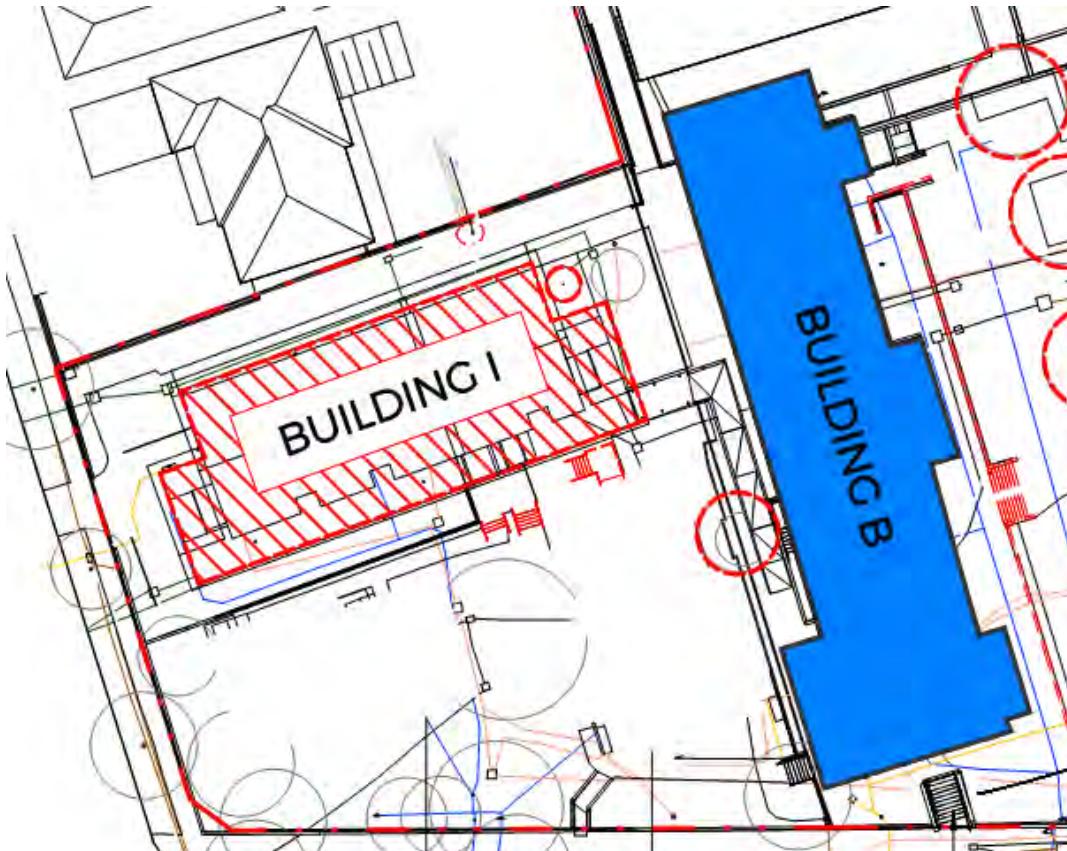
The demolition, removal, storage, handling and disposal of product and materials containing asbestos will be carried out in accordance with the relevant requirements of SafeWork NSW and the NSW Department of Environment & Conservation including:

- Work Health and Safety Act 2011;
- SafeWork NSW Code of Practice for the Safe Removal of Asbestos;
- Australian Standard 2601 ;
- The Protection of the Environment Operation Act 1997 and Protection of the Environment Operations (Waste) Regulation 1996 and;
- Relevant Department of Environment & Conservation (DEC)/Environment Protection Authority (EPA) and SafeWork NSW Guidelines;
- Work Cover NSW - Guidelines and Codes of Practice

4 BUILDING I

a) Site location

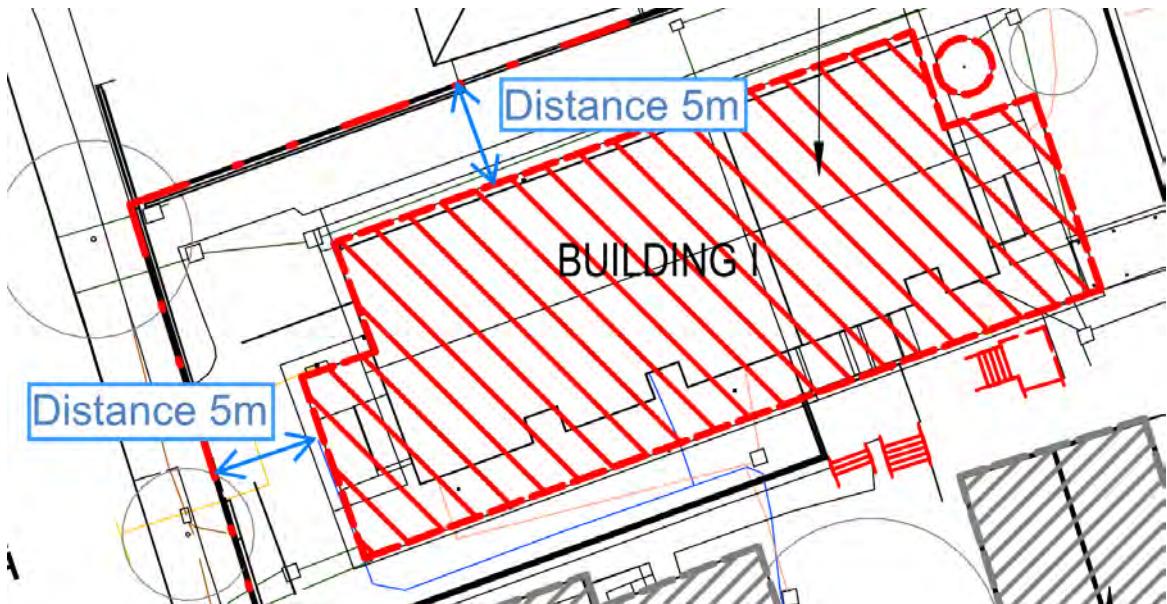
Building I is located on the south western boundary of the Public School site. It is located on the western side of exiting Building B, north of an existing landscaped space.



b) Overall Height of Structure

Building I is approximately 6 metres in height from the adjacent ground level.

The below image indicates the least distances from the nearest site boundaries, which are 5m on the northern and western boundaries.



c) Building Type & Construction

Building I is a Class 9a school building. It is split level, with brick veneer walls and a metal roof. Its primary structural elements are concrete columns, slabs, and a metal framed roof. Its principal materials of construction are concrete, bricks/blocks, metal framing and roofing, plasterboard and cement sheeting.

d) Demolition Methods

The two primary demolition methods that will be utilised for Building I are manual/hand demolition for the soft strip out of internal building elements, and mechanical demolition to the structural elements of the building.

The major equipment that will be utilised to facilitate this demolition are:

- 19-foot scissor lift
- Bobcat
- 5t-10t excavators
- 35t excavator with bucket and hammer attachments
- Rigid vehicles for the transportation of waste

e) Handling & Disposal of Demolished Materials

All concrete and brick materials will be machine loaded into vehicles and transported to a licenced tipping facility for recycling.

All general rubbish will be separated from any recyclable material. It will then be machine loaded into vehicles and transported to tipping facilities licenced to accept that specific waste.

All metal will be isolated, collected and machine loaded into vehicles, then transported to licenced metal recycling yards.

f) Work Sequence & Timeframe

Building I will be demolished in the below sequence.

1. Permit – 5 Days

- Prior to the scheduling of any works a SafeWork NSW Permit for Demolition will be obtained from the regulator. A period of five days' notice will be required for the application of the permits.
- SafeWork NSW permits to be issued for all demolition works that trigger the notification requirements listed within the *NSW Code of Practice: Demolition Work August 2019*.
- Consultation with stakeholders and regulators will commence prior to site establishment and will continue throughout the project

2. *Exclusion Zone - 1 Day*

- An exclusion zone will be established around the demolition work area, with safe access maintained to and from this area.

Note

- Signage is to be installed to notify workers of demolition areas, danger areas, exclusion zones and other hazards. Signage to the site perimeter is also required, in accordance with AS1319.
- Spotters to be in place during all demolition works to ensure no unauthorized personnel enter the exclusion zone.

3. *Service Disconnection - 1 Day*

- All services are to be disconnected and/or isolated prior to demolition commencing.
- Disconnection certificates from qualified services trades are to be received before demolition can commence.

4. *Loose Item Removal - 2 Days*

- All loose items such as carpet, chairs and miscellaneous furniture is to be removed prior to soft strip commencing.

5. *Soft Strip - 3 Days*

- Drop zones are to be established, and fenced off accordingly to prevent unintentional access. The Building I drop zones will be located along the southern elevation of the building. The specific location of drop zones will be addressed in daily pre-start meetings to ensure every on-site worker is aware of these areas.
- Soft strip will commence on the upper level of Building I, and progressively work down to the ground floor rooms. This will include the removal of all non-structural elements, including joinery, partition walls and similar.

Note

- Mobile scaffolds to be utilized instead of ladders when access at height is required to the internal areas.
- Spotters are to be in place at all times, with an established radio communication line to the workers using the drop zone.
- Spotters are to sign in and out daily.
- Signage to be securely fixed to all perimeter fencing and drop zone barriers.
- Dust control is to be in place at all times during soft strip, particularly at the drop zone areas.

6. *Mechanical Demolition - 12 Days*

- Establish demolition scaffold along the required elevations of Building I.
- Structural engineer to inspect post soft strip and review the building structure, to provide sign off that the proposed plant can traffic the required slabs.
- Establish 3t - 5t excavators to shift materials in direction show in the markup below (away from leading edge of demolition).
- Demolish roof structure progressively from within the building, remaining away from the leading edge of demolition.
- If roof access is required from the scaffolding, existing harness points are to be used to safely access roof areas.
- Using a 25t long reach excavator with pulverizer and hydraulic hammer attachment, demolish the structure in a sequence the opposite of construction (Slabs -> Beams -> Columns).
- Demolish the building in a top-down manner, reverse of construction manner (slab -> beam -> columns).
- The sequence of demolition, including the extent that the structure can remain standing without propping, must be confirmed by the structural engineer prior to commencing structural demolition.

Note

- The sequence of demolition, including the extent that the structure can remain standing without propping, must be confirmed by the structural engineer prior to commencing structural demolition.
- Any penetrations that will be cut into load-bearing walls, must be confirmed by the structural engineer prior to commencing.
- One spotter is required at all times for every machine in operation.
- Dust control is to be maintained at all times



g) Protective Measures & Site Access

Due to its proximity to the northern boundary, Building I will require the installation of scaffolding to this elevation, which is shown in the below image.



Site access routes will be amended as required by the demolition work area, and exclusion zone. A minimum 1200mm wide pedestrian access way will be maintained at all times from the work area to an emergency assembly point at the site entrance. The site access and egress route will be communicated daily to the on-site workers in a pre-start meeting, to ensure any changes from the previous day are understood.

h) Demolition Exclusion Zone

The demolition exclusion zone will be amended as the works progress, to suit the required dimensions of the work area, in accordance with AS2601-2001. The exclusion zone will be established with warning barriers, fencing, tape and signage as required. The exclusion zone will be communicated daily to the on-site workers in a pre-start meeting, to ensure any changes to the exclusion zone are understood.

i) Traffic Management Plan

Construction and Pedestrian traffic will be managed in accordance with the project Construction Traffic & Pedestrian Management Sub-Plan (CTPMSP).

j) Environmental Management Plan

The demolition will be managed in accordance with the project Construction Environmental Management Plan (CEMP).

k) OH&S System

All demolition works will be conducted in accordance with the ACE Civil and Richard Crookes Constructions OH&S systems.

- Underground Services

Underground services will be identified through the use of existing surveys, DBYD information and service scanning. If an underground service is known of, or identified within the demolition work area, it will be flagged and the on-site workers will be made aware of its

presence. Demolition works will be coordinated around these services to ensure they are not damaged.

There are significant underground services in the landscaped area adjacent to Building I. care will be taken in this area so that the demolition does not impact these services.

If machinery is required to traffic over these services, bridging methods (such as tracks or road plates) will be used.

- **Above Ground Services**

There no above ground services of note in the Building I demolition area.

- **Hazardous Materials**

There is no asbestos located within Building I. There are some insulation materials, can be disposed of as general waste.

For further information please refer to the Pre-Demolition Hazardous Materials Survey completed by JBS&G.

- **Underground Structures**

Not Applicable.

- **Confined Spaces**

No confined spaces have been identified, if access is required, all licences and safety measures will be in place prior.

- **Condition of Adjacent Structures/Properties**

The condition of adjacent structures on adjoining properties has been captured in the dilapidation reports required by the SSD 9483 Condition of Consent.

- **Demolition Impacts**

The demolition impacts will be managed in accordance with the project Construction Environmental Management Plan, and the SSD 9483 Condition of Consent.

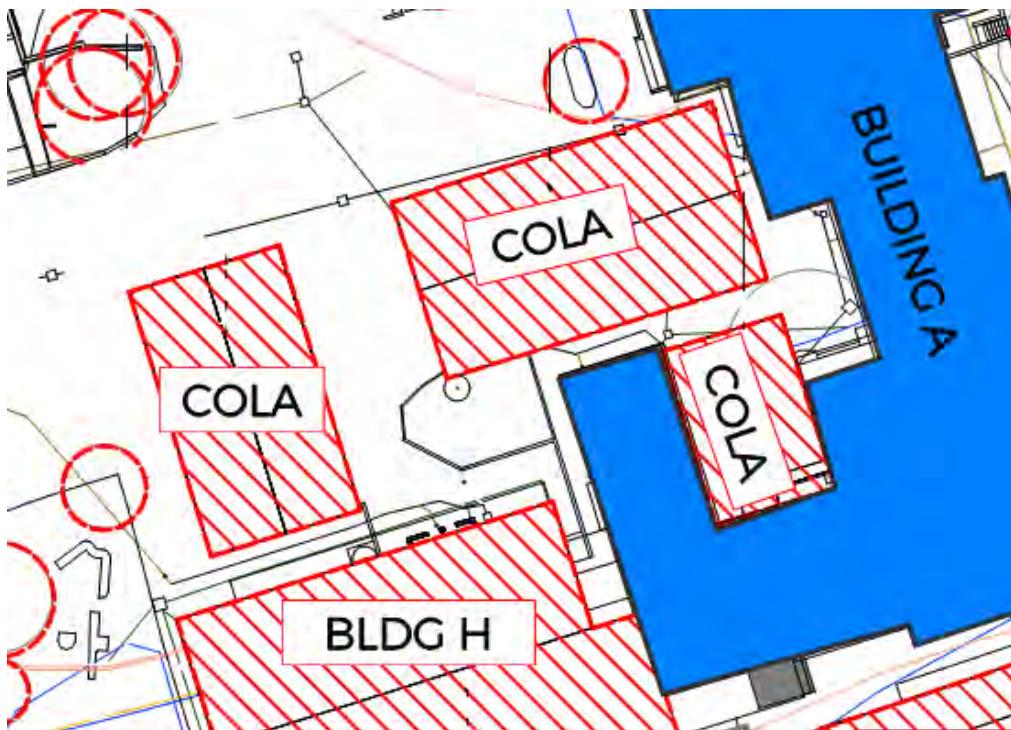
- **Emergency Rescue, Ingress & Egress**

The construction site will maintain an emergency rescue, ingress and egress plan within the project Emergency Management Plan. This will be communicated to all workers within the demolition area, and the required equipment to conduct an emergency rescue within the demolition area will be retained on site for the duration of the works.

5 COLA STRUCTURES

i) Site location

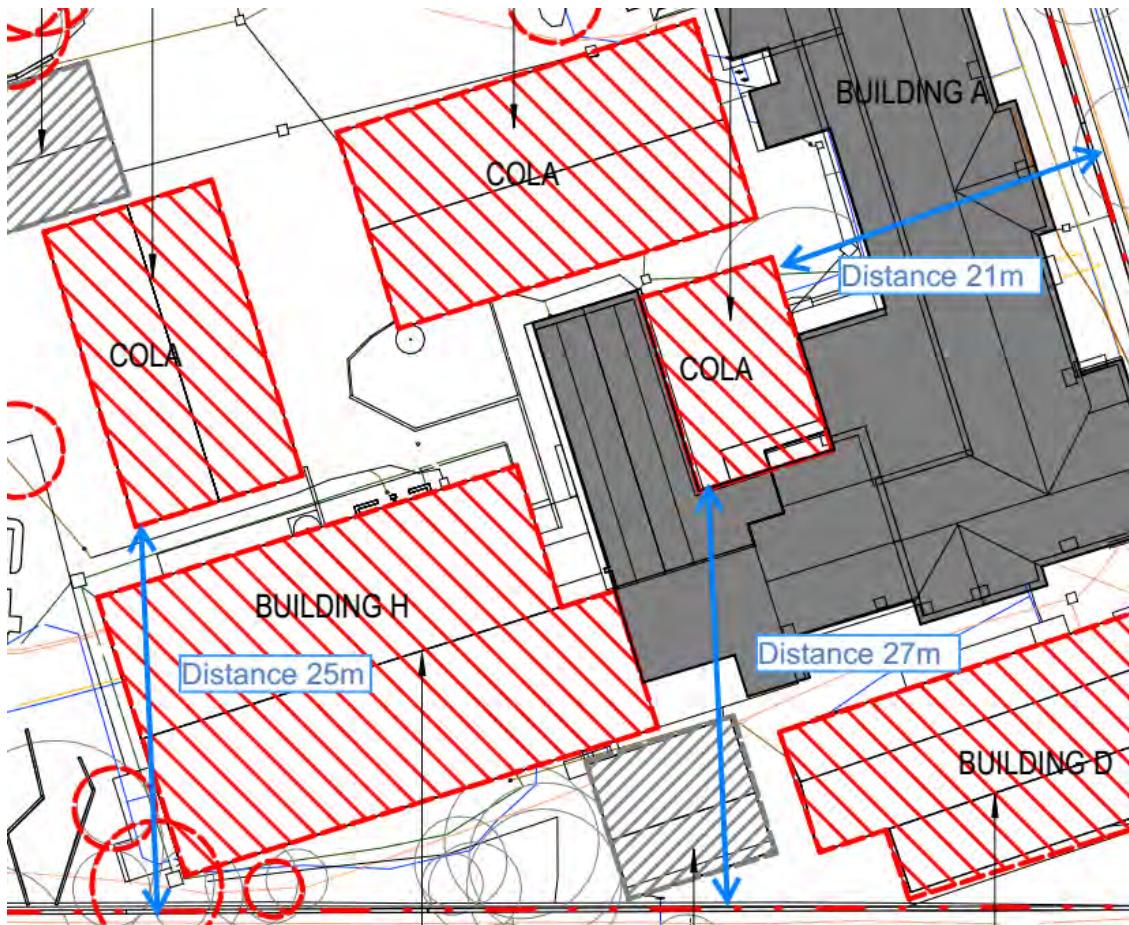
The COLA structures (awnings) are located centrally on the Public-School site. They are in the central play space area, on the west of Building A, and the east of Building B.



m) Overall Height of Structure

The COLA awnings are approximately 4.5 metres in height from the adjacent ground level.

The below image indicates the least distances from the nearest site boundaries, which are 21m on the north/west and approximately 25-27m from the southern boundary of site.



n) Building Type & Construction

The COLA structures are unoccupied, metal awnings that provide covered play space. They are constructed entirely from steel columns, beams and metal roof sheeting.

o) Demolition Methods

The two primary demolition methods that will be utilised for the COLA's are manual/hand demolition for the removal of roof sheeting and mechanical demolition to the structural steel elements.

The major equipment that will be utilised to facilitate this demolition are:

- 19-foot scissor lift
- Boom lift
- 5t-10t excavators
- Rigid vehicles for the transportation of waste

p) Handling & Disposal of Demolished Materials

All metal will be isolated, collected and machine loaded into vehicles, then transported to licenced metal recycling yards.

q) Work Sequence & Timeframe

The COLA Structures will be demolished in the below sequence.

7. Permit - 5 Days

- Prior to the scheduling of any works a SafeWork NSW Permit for Demolition will be obtained from the regulator. A period of five days' notice will be required for the application of the permits.
- SafeWork NSW permits to be issued for all demolition works that trigger the notification requirements listed within the *NSW Code of Practice: Demolition Work August 2019*.
- Consultation with stakeholders and regulators will commence prior to site establishment and will continue throughout the project

8. *Exclusion Zone - 1 Day*

- An exclusion zone will be established around the demolition work area, with safe access maintained to and from this area.

Note

- Signage is to be installed to notify workers of demolition areas, danger areas, exclusion zones and other hazards. Signage to the site perimeter is also required, in accordance with AS1319.
- Spotters to be in place during all demolition works to ensure no unauthorized personnel enter the exclusion zone.

9. *Service Disconnection - 1 Day*

- All services are to be disconnected and/or isolated prior to demolition commencing.
- Disconnection certificates from qualified services trades are to be received before demolition can commence.
- Some services such as speakers and lighting will need to be relocated prior to disconnections occurring, and demolition commencing.

10. *Roof sheet removal - 2 Days*

- Once exclusion zones are established, roof sheet removal will commence.
- Workers are to be either fully within a elevated work platform or scissor lift at all times when removing roof sheets. If further access is required, then harnesses can be used when secured to a certified fixing point.

Note

- Mobile scaffolds/scissor lifts and boom lifts to be utilized instead of ladders when access at height is required.
- Spotters are to be in place at all times, with an established radio communication line to the workers using the drop zone.
- Spotters are to sign in and out daily.
- Signage to be securely fixed to all perimeter fencing and drop zone barriers.
- Dust control is to be in place at all times.

11. *Mechanical Demolition - 1 Day*

- Demolish the structures, ensuring the structural members fall in a safe manner to a designated location.

Note

- The COLA's are built in a segmented/modular fashion, and removal is to mimic the reverse of the install. The below photos highlight the sections that the COLA's will be demolished in.



r) Protective Measures & Site Access

A minimum 1200mm wide pedestrian access way will be maintained at all times from the work area to an emergency assembly point at the site entrance. The site access and egress route will be communicated daily to the on-site workers in a pre-start meeting, to ensure any changes from the previous day are understood.

s) Demolition Exclusion Zone

The demolition exclusion zone will be amended as the works progress, to suit the required dimensions of the work area, in accordance with AS2601-2001. The exclusion zone will be established with warning barriers, fencing, tape and signage as required. The exclusion zone will be communicated daily to the on-site workers in a pre-start meeting, to ensure any changes to the exclusion zone are understood.

t) Traffic Management Plan

Construction and Pedestrian traffic will be managed in accordance with the project Construction Traffic & Pedestrian Management Sub-Plan (CTPMSP).

u) Environmental Management Plan

The demolition will be managed in accordance with the project Construction Environmental Management Plan (CEMP).

v) OH&S System

All demolition works will be conducted in accordance with the ACE Civil and Richard Crookes Constructions OH&S systems.

- **Underground Services**

Underground services will be identified through the use of existing surveys, DBYD information and service scanning. If an underground service is known of, or identified within the demolition work area, it will be flagged and the on-site workers will be made aware of its presence. Demolition works will be coordinated around these services to ensure they are not damaged.

- **Above Ground Services**

There no above ground services of note in the COLA demolition area.

- **Hazardous Materials**

There are no hazardous materials within the COLA demolition area.

For further information please refer to the Pre-Demolition Hazardous Materials Survey completed by JBS&G.

- **Underground Structures**

Not Applicable.

- **Confined Spaces**

No confined spaces have been identified, if access is required, all licences and safety measures will be in place prior.

- **Condition of Adjacent Structures/Properties**

The condition of adjacent structures on adjoining properties has been captured in the dilapidation reports required by the SSD 9483 Condition of Consent.

- **Demolition Impacts**

The demolition impacts will be managed in accordance with the project Construction Environmental Management Plan, and the SSD 9483 Condition of Consent.

- **Emergency Rescue, Ingress & Egress**

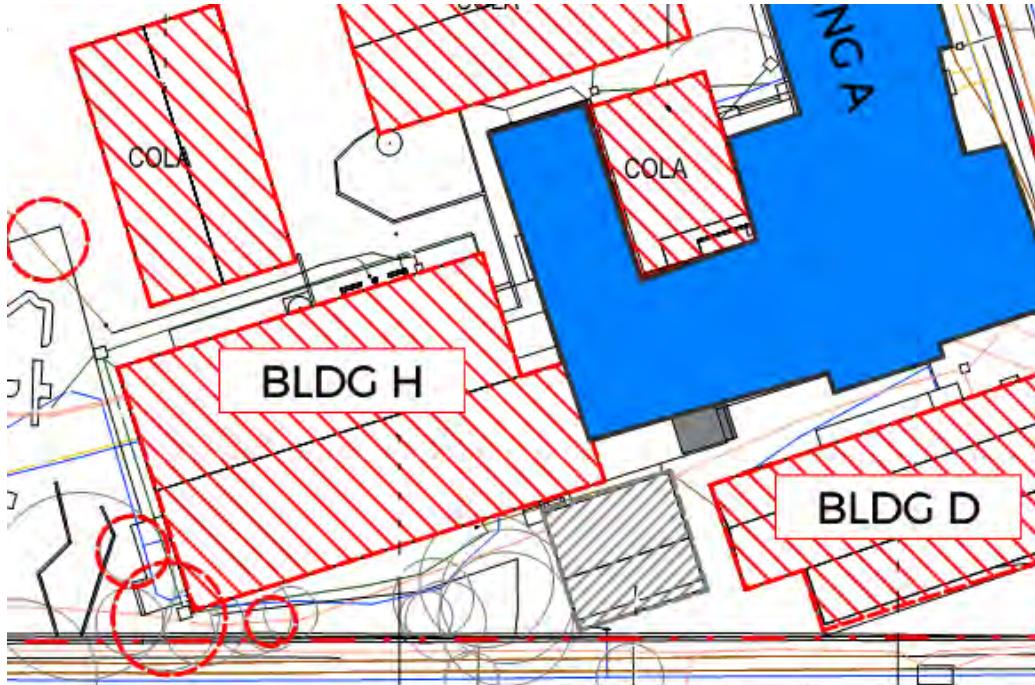
The construction site will maintain an emergency rescue, ingress and egress plan within the project Emergency Management Plan. This will be communicated to all workers within the

demolition area, and the required equipment to conduct an emergency rescue within the demolition area will be retained on site for the duration of the works.

6 BUILDING H

a) Site location

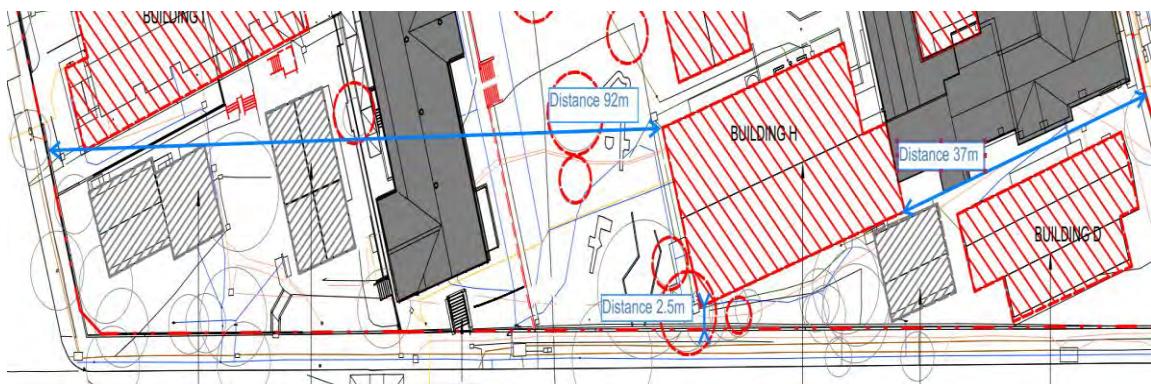
Building H is located on the south eastern corner of the Public School site. It is located on the south/western side of exiting Building A, alongside Centennial Avenue.



b) Overall Height of Structure

Building H is approximately 5.5 metres in height from the adjacent ground level.

The below image indicates the least distances from the nearest site boundaries, which are 92m on the western, 2.5m on the southern, and approx.. 37m from the eastern boundary respectively.



c) Building Type & Construction

Building H is a Class 9a school building. It is single level, with double brick walls and a metal roof. Its primary structural elements are a ground slab, brick walls and a metal framed roof. Its principal materials of construction are concrete, bricks/blocks, metal framing (trusses), roof tiles, plasterboard and cement sheeting.

d) Demolition Methods

The two primary demolition methods that will be utilised for Building H are manual/hand demolition for the soft strip out of internal building elements, and mechanical demolition to the structural elements of the building.

The major equipment that will be utilised to facilitate this demolition are:

- 19-foot scissor lift
- Bobcat
- 5t-10t excavators
- 35t excavator with bucket and hammer attachments
- Rigid vehicles for the transportation of waste

e) Handling & Disposal of Demolished Materials

All concrete and brick materials will be machine loaded into vehicles and transported to a licenced tipping facility for recycling.

All general rubbish will be separated from any recyclable material. It will then be machine loaded into vehicles and transported to tipping facilities licenced to accept that specific waste.

All metal will be isolated, collected and machine loaded into vehicles, then transported to licenced metal recycling yards.

f) Work Sequence & Timeframe

Building H will be demolished in the below sequence.

12. Permit - 5 Days

- o Prior to the scheduling of any works a SafeWork NSW Permit for Demolition will be obtained from the regulator. A period of five days' notice will be required for the application of the permits.
- o SafeWork NSW permits to be issued for all demolition works that trigger the notification requirements listed within the *NSW Code of Practice: Demolition Work August 2019*.
- o Consultation with stakeholders and regulators will commence prior to site establishment and will continue throughout the project

13. Exclusion Zone - 1 Day

- o An exclusion zone will be established around the demolition work area, with safe access maintained to and from this area.

Note

- Signage is to be installed to notify workers of demolition areas, danger areas, exclusion zones and other hazards. Signage to the site perimeter is also required, in accordance with AS1319.
- Spotters to be in place during all demolition works to ensure no unauthorized personnel enter the exclusion zone.

14. Service Disconnection - 1 Day

- o All services are to be disconnected and/or isolated prior to demolition commencing.
- o Disconnection certificates from qualified services trades are to be received before demolition can commence.

15. *Loose Item Removal – 2 Days*

- All loose items such as carpet, chairs and miscellaneous furniture is to be removed prior to soft strip commencing.

16. *Soft Strip – 3 Days*

- Stockpile areas are to be established, and fenced off accordingly to prevent unintentional access. The Building H drop zones will be located along the western and northern elevation of the building. The specific location of stockpile areas will be addressed in daily pre-start meetings to ensure every on-site worker is aware of these areas.
- Soft strip will include the removal of all non-structural elements, including joinery, partition walls and similar.

Note

- Mobile scaffolds to be utilized instead of ladders when access at height is required to the internal areas.
- Spotters are to sign in and out daily.
- Signage to be securely fixed to all perimeter fencing and barriers.
- Dust control is to be in place at all times during soft strip.

17. *Mechanical Demolition – 12 Days*

- Establish demolition scaffold along the required elevations of Building H for roof tile removal.
- Structural engineer to inspect post soft strip and review the building structure, to provide sign off that the proposed plant can traffic the required slabs.
- Establish 3t - 5t excavators to shift materials in direction show in the markup below (away from leading edge of demolition).
- Demolish roof structure progressively from within the building, remaining away from the leading edge of demolition.
- If roof access is required from the scaffolding, existing harness points are to be used to safely access roof areas.
- Using a 25t long reach excavator with pulverizer and hydraulic hammer attachment, demolish the structure in a sequence the opposite of construction (Slabs -> Beams -> Columns).
- The sequence of demolition, including the extent that the structure can remain standing without propping, must be confirmed by the structural engineer prior to commencing structural demolition.
- Building H will be demolished in two stages, that are indicated by the below photos. The western most section will be demolished first, with the eastern halve to be demolished several months later.
- Detailed demolition will be required where the building junction is being broken.
- Structural engineer input will be required to assess the remaining section of Building H, to determine if additional propping is required.

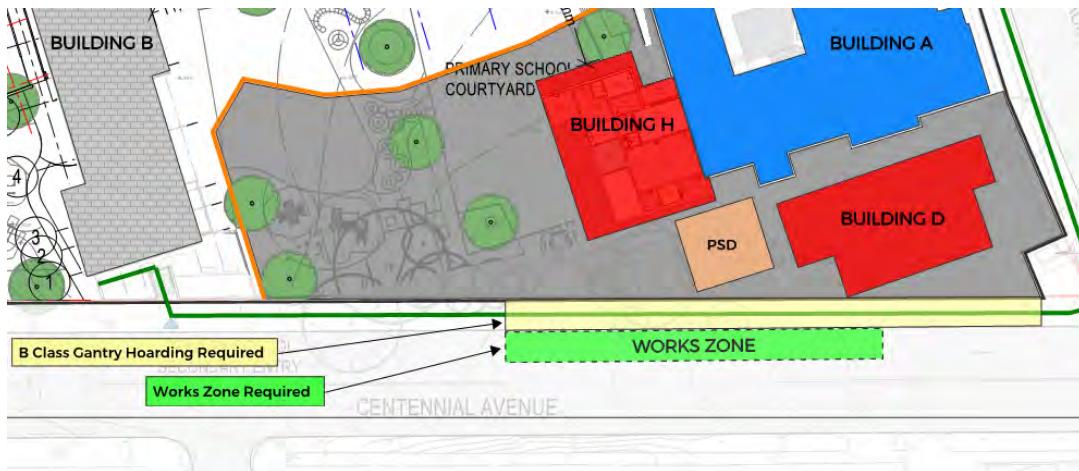
Note

- The sequence of demolition, including the extent that the structure can remain standing without propping, must be confirmed by the structural engineer prior to commencing structural demolition.
- Any penetrations that will be cut into load-bearing walls, must be confirmed by the structural engineer prior to commencing.
- One spotter is required at all times for every machine in operation.
- Dust control is to be maintained at all times



g) Protective Measures & Site Access

Due to restricted access during the second stage of demolition, Building H will require the installation of a gantry hoarding to this elevation, which is shown in the below image. This will happen in conjunction with the demolition of Building D.



Site access routes will be amended as required by the demolition work area, and exclusion zone. A minimum 1200mm wide pedestrian access way will be maintained at all times from the work area to an emergency assembly point at the site entrance. The site access and egress route will be communicated daily to the on-site workers in a pre-start meeting, to ensure any changes from the previous day are understood.

h) Demolition Exclusion Zone

The demolition exclusion zone will be amended as the works progress, to suit the required dimensions of the work area, in accordance with AS2601-2001. The exclusion zone will be established with warning barriers, fencing, tape and signage as required. The exclusion zone will be communicated daily to the on-site workers in a pre-start meeting, to ensure any changes to the exclusion zone are understood.

i) Traffic Management Plan

Construction and Pedestrian traffic will be managed in accordance with the project Construction Traffic & Pedestrian Management Sub-Plan (CTPMSP).

j) Environmental Management Plan

The demolition will be managed in accordance with the project Construction Environmental Management Plan (CEMP).

k) OH&S System

All demolition works will be conducted in accordance with the ACE Civil and Richard Crookes Constructions OH&S systems.

- Underground Services

Underground services will be identified through the use of existing surveys, DBYD information and service scanning. If an underground service is known of, or identified within the demolition work area, it will be flagged and the on-site workers will be made aware of its presence. Demolition works will be coordinated around these services to ensure they are not damaged.

There are significant underground services in the landscaped area adjacent to Building I. care will be taken in this area so that the demolition does not impact these services.

If machinery is required to traffic over these services, bridging methods (such as tracks or road plates) will be used.

- Above Ground Services

There are no above ground services of note in the Building H demolition area.

- **Hazardous Materials**

Some hazardous materials are located within Building H.

All removal will be completed by licenced removalists, under the management of an approved ARCP.

For further information please refer to the Pre-Demolition Hazardous Materials Survey completed by JBS&G.

- **Underground Structures**

Not Applicable.

- **Confined Spaces**

No confined spaces have been identified, if access is required, all licences and safety measures will be in place prior.

- **Condition of Adjacent Structures/Properties**

The condition of adjacent structures on adjoining properties has been captured in the dilapidation reports required by the SSD 9483 Condition of Consent.

- **Demolition Impacts**

The demolition impacts will be managed in accordance with the project Construction Environmental Management Plan, and the SSD 9483 Condition of Consent.

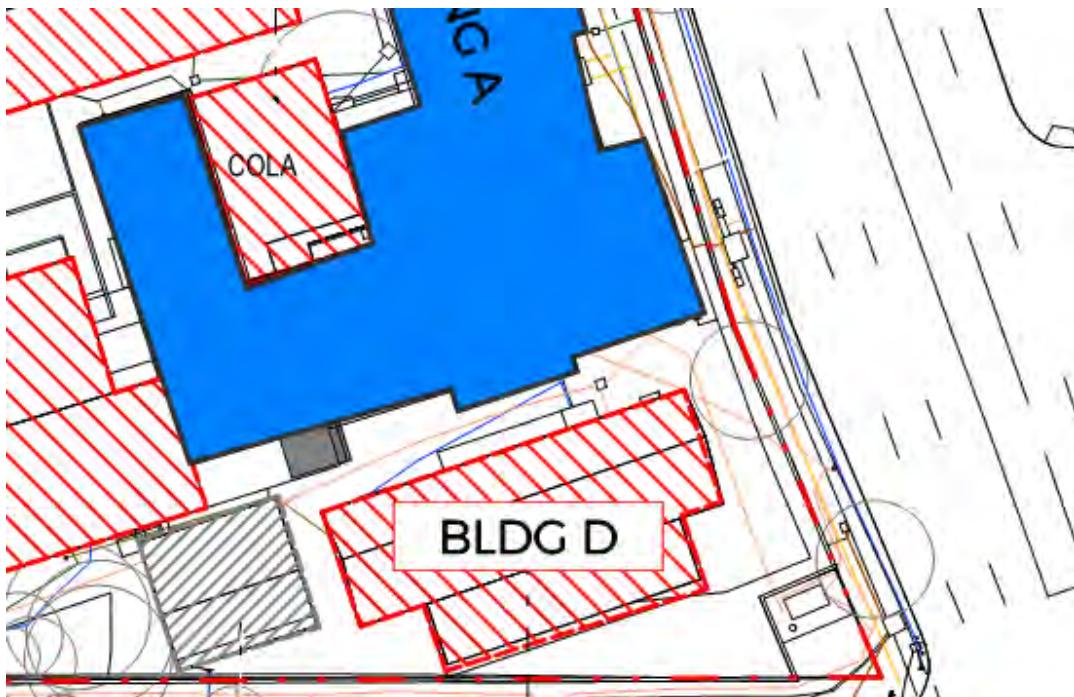
- **Emergency Rescue, Ingress & Egress**

The construction site will maintain an emergency rescue, ingress and egress plan within the project Emergency Management Plan. This will be communicated to all workers within the demolition area, and the required equipment to conduct an emergency rescue within the demolition area will be retained on site for the duration of the works.

7 BUILDINGS D

i) Site location

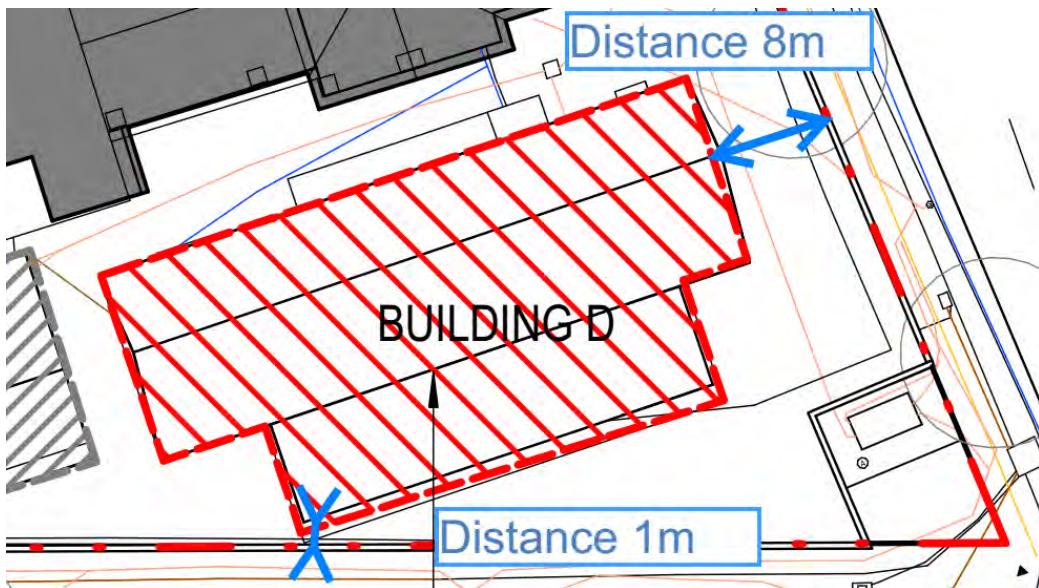
Building D is located on the south eastern corner of the Public School site. It is located on the southern side of exiting Building A, near the corner of the Pacific Highway and Centennial Avenue.



m) Overall Height of Structure

Building D is approximately 7.5 metres in height from the adjacent ground level.

The below image indicates the least distances from the nearest site boundaries, which are 8m on the eastern and 1m on the southern boundary respectively.



n) Building Type & Construction

Building D is a Class 9a school building. It is double level, with metal cladding and a metal roof. Its primary structural elements are concrete columns, slabs, and a metal framed roof. Its principal materials of construction are concrete, bricks/blocks, metal framing and roofing, plasterboard and cement sheeting.

o) Demolition Methods

The two primary demolition methods that will be utilised for Building D are manual/hand demolition for the soft strip out of internal building elements, and mechanical demolition to the structural elements of the building.

The major equipment that will be utilised to facilitate this demolition are:

- 19-foot scissor lift
- Bobcat
- 5t-10t excavators
- 35t excavator with bucket and hammer attachments
- Rigid vehicles for the transportation of waste

p) Handling & Disposal of Demolished Materials

All concrete and brick materials will be machine loaded into vehicles and transported to a licenced tipping facility for recycling.

All general rubbish will be separated from any recyclable material. It will then be machine loaded into vehicles and transported to tipping facilities licenced to accept that specific waste.

All metal will be isolated, collected and machine loaded into vehicles, then transported to licenced metal recycling yards.

q) Work Sequence & Timeframe

Building D will be demolished in the below sequence.

18. Permit – 5 Days

- Prior to the scheduling of any works a SafeWork NSW Permit for Demolition will be obtained from the regulator. A period of five days' notice will be required for the application of the permits.
- SafeWork NSW permits to be issued for all demolition works that trigger the notification requirements listed within the *NSW Code of Practice: Demolition Work August 2019*.
- Consultation with stakeholders and regulators will commence prior to site establishment and will continue throughout the project

19. Exclusion Zone – 1 Day

- An exclusion zone will be established around the demolition work area, with safe access maintained to and from this area.

Note

- Signage is to be installed to notify workers of demolition areas, danger areas, exclusion zones and other hazards. Signage to the site perimeter is also required, in accordance with AS1319.

- Spotters to be in place during all demolition works to ensure no unauthorized personnel enter the exclusion zone.

20. Service Disconnection - 1 Day

- All services are to be disconnected and/or isolated prior to demolition commencing.
- Disconnection certificates from qualified services trades are to be received before demolition can commence.

21. Loose Item Removal - 2 Days

- All loose items such as carpet, chairs and miscellaneous furniture is to be removed prior to soft strip commencing.

22. Soft Strip - 3 Days

- Drop zones are to be established, and fenced off accordingly to prevent unintentional access. The Building D drop zones will be located along the western and northern elevation of the building. The specific location of drop zones will be addressed in daily pre-start meetings to ensure every on-site worker is aware of these areas.
- Soft strip will commence on the upper level of Building D, and progressively work down to the ground floor rooms. This will include the removal of all non-structural elements, including joinery, partition walls and similar.

Note

- Mobile scaffolds to be utilized instead of ladders when access at height is required to the internal areas.
- Spotters are to be in place at all times, with an established radio communication line to the workers using the drop zone.
- Spotters are to sign in and out daily.
- Signage to be securely fixed to all perimeter fencing and drop zone barriers.
- Dust control is to be in place at all times during soft strip, particularly at the drop zone areas.

23. Mechanical Demolition - 12 Days

- Establish demolition scaffold along the required elevations of Building D for roof sheet removal if required.
- Structural engineer to inspect post soft strip and review the building structure, to provide sign off that the proposed plant can traffic the required slabs.
- Establish 3t - 5t excavators to shift materials in direction show in the markup below (away from leading edge of demolition).
- Demolish roof structure progressively from within the building, remaining away from the leading edge of demolition.
- If roof access is required from the scaffolding, existing harness points are to be used to safely access roof areas.
- Using a 25t long reach excavator with pulverizer and hydraulic hammer attachment, demolish the structure in a sequence the opposite of construction (Slabs -> Beams -> Columns).

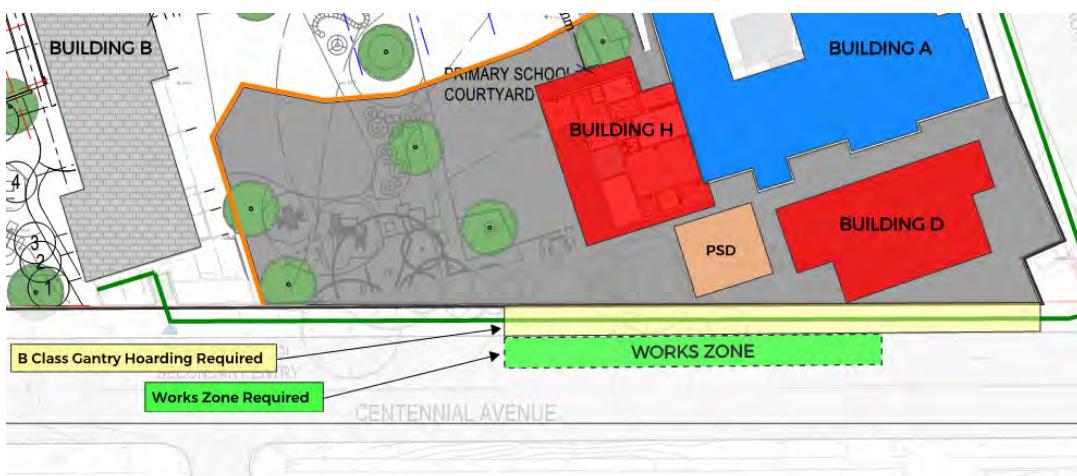
- Demolish the building in a top-down manner, reverse of construction manner (slab -> beam -> columns).
- The sequence of demolition, including the extent that the structure can remain standing without propping, must be confirmed by the structural engineer prior to commencing structural demolition.

Note

- The sequence of demolition, including the extent that the structure can remain standing without propping, must be confirmed by the structural engineer prior to commencing structural demolition.
- Any penetrations that will be cut into load-bearing walls, must be confirmed by the structural engineer prior to commencing.
- One spotter is required at all times for every machine in operation.
- Dust control is to be maintained at all times

r) Protective Measures & Site Access

Due to its proximity to the southern boundary, Building D will require the installation of a gantry hoarding to this elevation, which is shown in the below image.



Site access routes will be amended as required by the demolition work area, and exclusion zone. A minimum 1200mm wide pedestrian access way will be maintained at all times from the work area to an emergency assembly point at the site entrance. The site access and egress route will be communicated daily to the on-site workers in a pre-start meeting, to ensure any changes from the previous day are understood.

s) Demolition Exclusion Zone

The demolition exclusion zone will be amended as the works progress, to suit the required dimensions of the work area, in accordance with AS2601-2001. The exclusion zone will be established with warning barriers, fencing, tape and signage as required. The exclusion zone will be communicated daily to the on-site workers in a pre-start meeting, to ensure any changes to the exclusion zone are understood.

t) Traffic Management Plan

Construction and Pedestrian traffic will be managed in accordance with the project Construction Traffic & Pedestrian Management Sub-Plan (CTPMSP).

u) Environmental Management Plan

The demolition will be managed in accordance with the project Construction Environmental Management Plan (CEMP).

v) OH&S System

All demolition works will be conducted in accordance with the ACE Civil and Richard Crookes Constructions OH&S systems.

- **Underground Services**

Underground services will be identified through the use of existing surveys, DBYD information and service scanning. If an underground service is known of, or identified within the demolition work area, it will be flagged and the on-site workers will be made aware of its presence. Demolition works will be coordinated around these services to ensure they are not damaged.

There are significant underground services in the landscaped area adjacent to Building I. care will be taken in this area so that the demolition does not impact these services.

If machinery is required to traffic over these services, bridging methods (such as tracks or road plates) will be used.

- **Above Ground Services**

There are no above ground services of note in the Building D demolition area.

- **Hazardous Materials**

There is no asbestos located within Building D. There are some insulation materials, can be disposed of as general waste.

For further information please refer to the Pre-Demolition Hazardous Materials Survey completed by JBS&G.

- **Underground Structures**

Not Applicable.

- **Confined Spaces**

No confined spaces have been identified, if access is required, all licences and safety measures will be in place prior.

- **Condition of Adjacent Structures/Properties**

The condition of adjacent structures on adjoining properties has been captured in the dilapidation reports required by the SSD 9483 Condition of Consent.

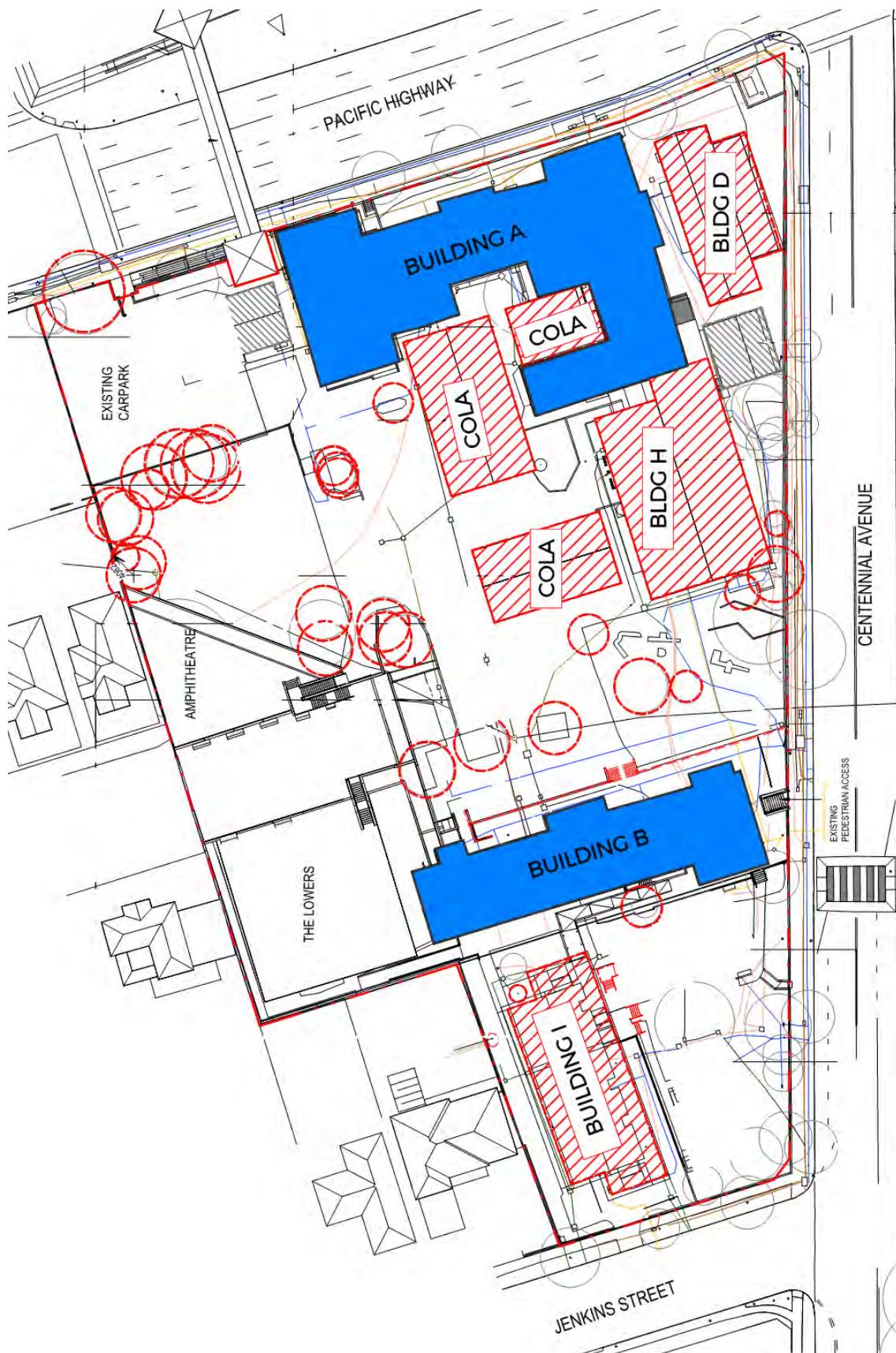
- **Demolition Impacts**

The demolition impacts will be managed in accordance with the project Construction Environmental Management Plan, and the SSD 9483 Condition of Consent.

- **Emergency Rescue, Ingress & Egress**

The construction site will maintain an emergency rescue, ingress and egress plan within the project Emergency Management Plan. This will be communicated to all workers within the demolition area, and the required equipment to conduct an emergency rescue within the demolition area will be retained on site for the duration of the works.

8 APPENDIX 1 - SITE DEMOLITION PLAN



9 APPENDIX 2 – COMPLIANCE STATEMENT

Compliance Statement

DATE : **17-06-2021**
PROJECT : **Chatswood Public School**
ADDRESS : **5 Centennial Avenue, Chatswood NSW**
CLIENT : **Richard Crookes Construction Pty Ltd**

TYPE OF BUILDING WORK : **Demolition Works**

I _____ of _____ ACE Civil Pty Ltd

hereby certify that the Demolition Work Plan for Chatswood Education Precinct (SSD 9483) have been prepared in accordance with the Australia Standards AS2601-2001.

The information contained in this statement is true and accurate to the best of my knowledge.

Ted Zhang
BEng | MEng



Email: Ted@acedemolition.com.au
362 Park Road, Regents Park NSW 2143 - PO Box 63, Auburn NSW 2144
Phone: (02) 9644 5596 - Fax: (02) 9644 55952 – www.acedemolition.com.au

10 APPENDIX 3 – CV OF SUITABLY QUALIFIED PERSON

Zhong ZHANG

Education

Master of Professional Engineering (Civil)

The University of Sydney

Sept 2013 – Mar 2016

Bachelor of Engineering: Civil Engineering

Southwest JiaoTong University

Sept 2009 – Jun 2013

Professional Experience

Anglicare Gordon

\$7 million

Taylor Construction Group

Demolition, Piling and Excavation Contract

The old retirement living demolition,
heritage Burnham Thorpe building
retention, D&C shoring and foundation
piling, excavation and civil works

Queens Ave Properties Vaucluse

\$3.7 million

Aqualand Delivery Pty Ltd

Demolition work in and around heritage-listed Villa Igaea, D&C of shoring system,
Excavation in two stages

Presbyterian Aged Care

Multiplex Pty Ltd

\$13 million

Rhodes Central – Stage 2

Billbergia Construction Pty Ltd \$11.2 million

Ultimo Public School

Hindmarsh Construction Australia Pty Ltd

\$2.2 million

Project Coordinator

Over 8 years experience in construction management, demolition planning and methodology preparation.

- Review subcontract particular conditions, scope of work inclusions and initial subcontract agreement
- Manage procurement process, prepare comparison of quotes from different suppliers in details and report to Director for decision
- Develop task SWMS (Safe Work Method Statement), project Work Method Statements (for demolition, excavation and shoring) and apply for associated Permits
- Project Long Term Programme & Short Term Status Programme development resources allocated to each task based on budget
- Preparation and submission of all QA (Quality Assurance) documents & ITPs (Inspection and Test Plan)
- Preparation and negotiation of subcontract variation and EOT claims
- Subcontractor monthly claim submission
- Process supplier and subcontractor payment claims
- Budget management and project cashflow forecast preparation
- Recommending changes in design details to increase efficiency of construction
- Review head contractor's payment schedules/ RCTI, prepare supplementary evidence for unapproved items and chase overdue payments
- Work and liaise with Customer and stakeholders to ensure satisfaction and relationships maintained to maximise contracted work
- Liaising with clients including Richard Crookes, Billbergia and Deicorp

Email: Ted@acedemolition.com.au

362 Park Road, Regents Park NSW 2143 - PO Box 63, Auburn NSW 2144

Phone: (02) 9644 5596 - Fax: (02) 9644 55952 –

www.acedemolition.com.au

11 APPENDIX 4 - DBYD SERVICE LOCATIONS AND EXISTING SITE SURVEY



Job No 21679001

Phone: 1100
www.1100.com.au

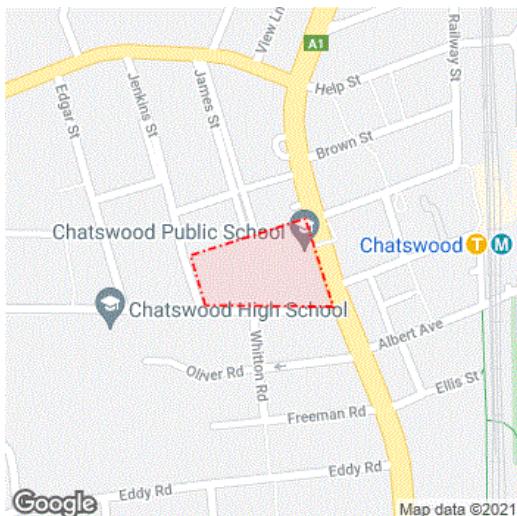
Caller Details

Contact: Mr Ted Zhang
Company: Ace Demolition and Excavation
Address: 362 park road
Regents Park NSW 2143

Caller Id: 2310075 **Phone:** 0451460330
Mobile: Not Supplied **Fax:** Not Supplied
Email: ted@acedemolition.com.au

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



| | | |
|--|--|------------------|
| User Reference: | Not Supplied | |
| Working on Behalf of: | Private | |
| Enquiry Date: | Start Date: | End Date: |
| 24/05/2021 | 30/05/2021 | 31/10/2021 |
| Address: | 5 Centennial Avenue Chatswood NSW 2067 | |
| Job Purpose: | Onsite Activity: Excavation | |
| Location of Workplace: | Location in Road: Private Property | |
| <ul style="list-style-type: none">Check the location of the dig site is correct. If not submit a new enquiry.If the scope of works change, or plan validity dates expire, resubmit your enquiry.Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners. | | |

Notes/Description of Works:

Your Responsibilities and Duty of Care

- The lodgement of an enquiry does not authorise the project to commence. You must obtain all necessary information from any and all likely impacted asset owners prior to excavation.
- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.1100.com.au
- For more information on safe excavation practices, visit www.1100.com.au**

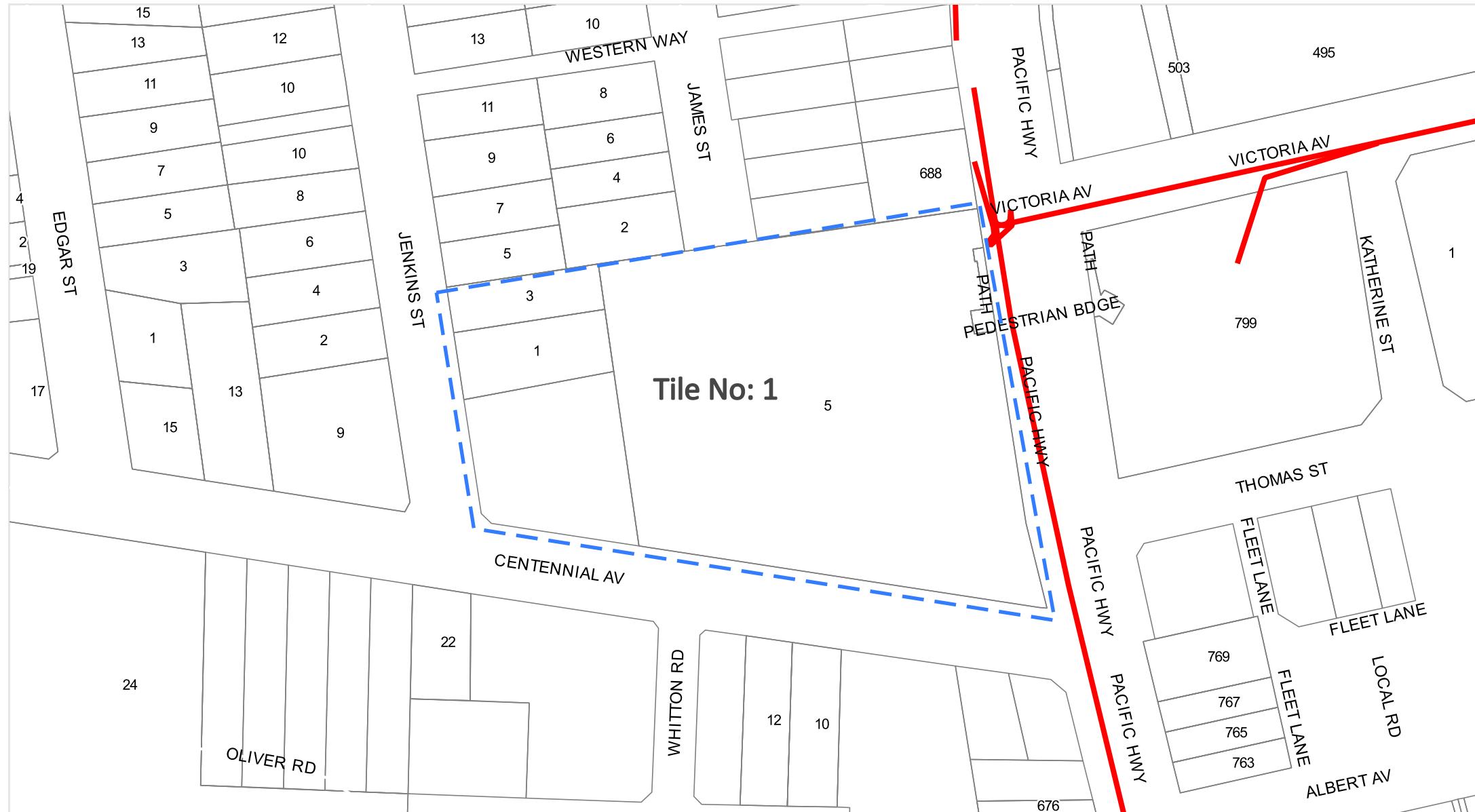
Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days. Additional time should be allowed for information issued by post. It is **your responsibility** to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Dial Before You Dig service, so it is **your responsibility** to identify and contact any asset owners not listed here directly.

** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.

Asset owners highlighted with a hash require that you call them to discuss your enquiry or to obtain plans.

| Seq. No. | Authority Name | Phone | Status |
|-----------|-------------------------|------------|----------|
| 110051716 | AARNet Pty Ltd, Nsw | 1300275662 | NOTIFIED |
| 110051711 | Ausgrid | 0249510899 | NOTIFIED |
| 110051714 | Jemena Gas North | 1300880906 | NOTIFIED |
| 110051717 | NBN Co, NswAct | 1800626329 | NOTIFIED |
| 110051709 | Nextgen, NCC - NSW | 1800032532 | NOTIFIED |
| 110051713 | Optus and/or Uecom, Nsw | 1800505777 | NOTIFIED |
| 110051715 | Sydney Water | 132092 | NOTIFIED |
| 110051712 | Telstra NSW, Central | 1800653935 | NOTIFIED |
| 110051710 | TPG Telecom (NSW) | 1800786306 | NOTIFIED |
| 110051707 | Transport for NSW | 0288370285 | NOTIFIED |
| 110051708 | Verizon Business (Nsw) | 0294345000 | NOTIFIED |
| 110051718 | Vocus Communications | 0892446114 | NOTIFIED |
| 110051706 | Willoughby City Council | 0297771000 | NOTIFIED |




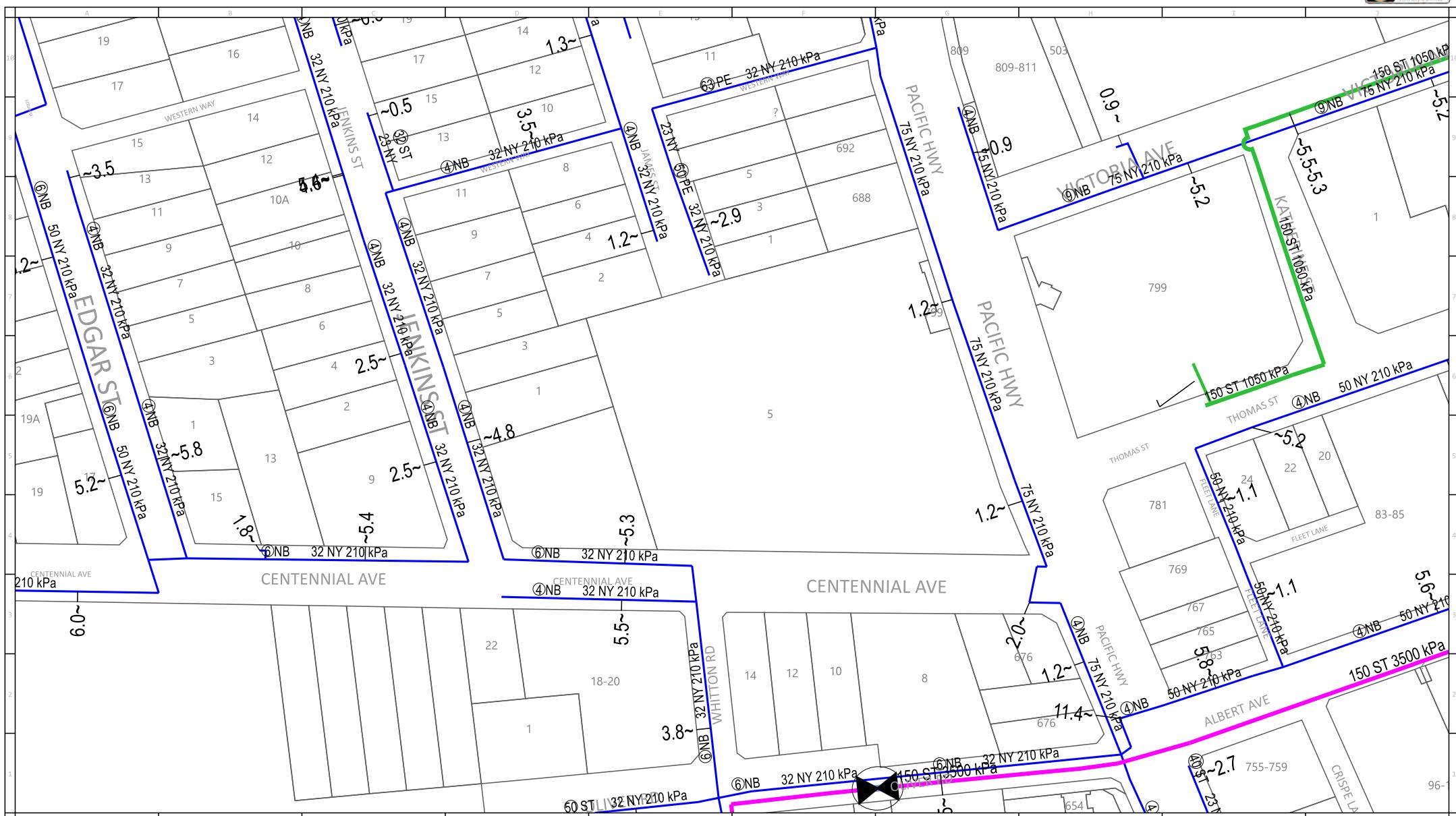
Legend | Scale: 1:1500



- Enquiry Area
 - AARNet Fibre Optic Assets
 - AARNet Power Assets
 - Cadastre

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither AARNet or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.



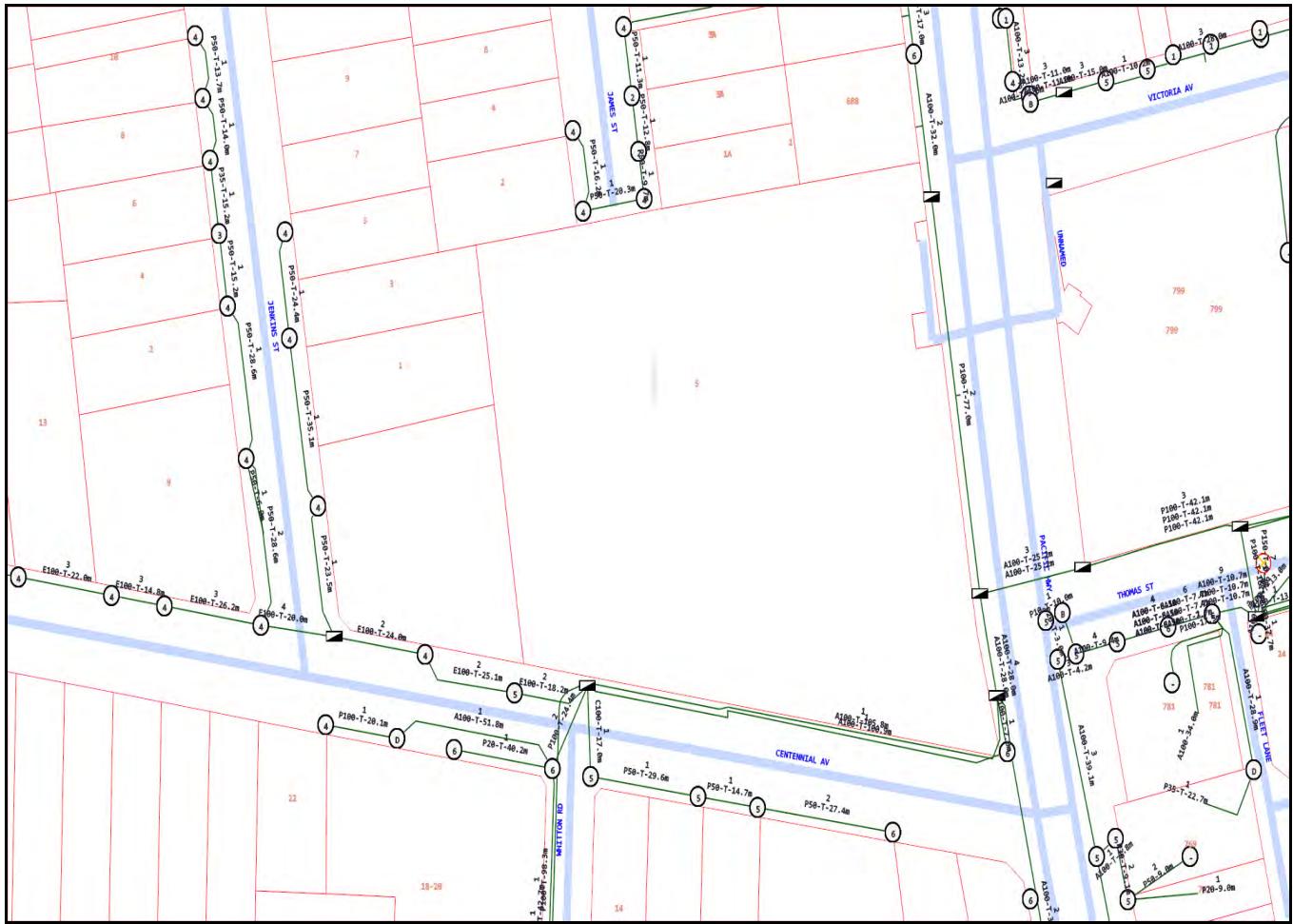


For legend details, please refer to the Coversheet attachment provided as part of this DBYD response.



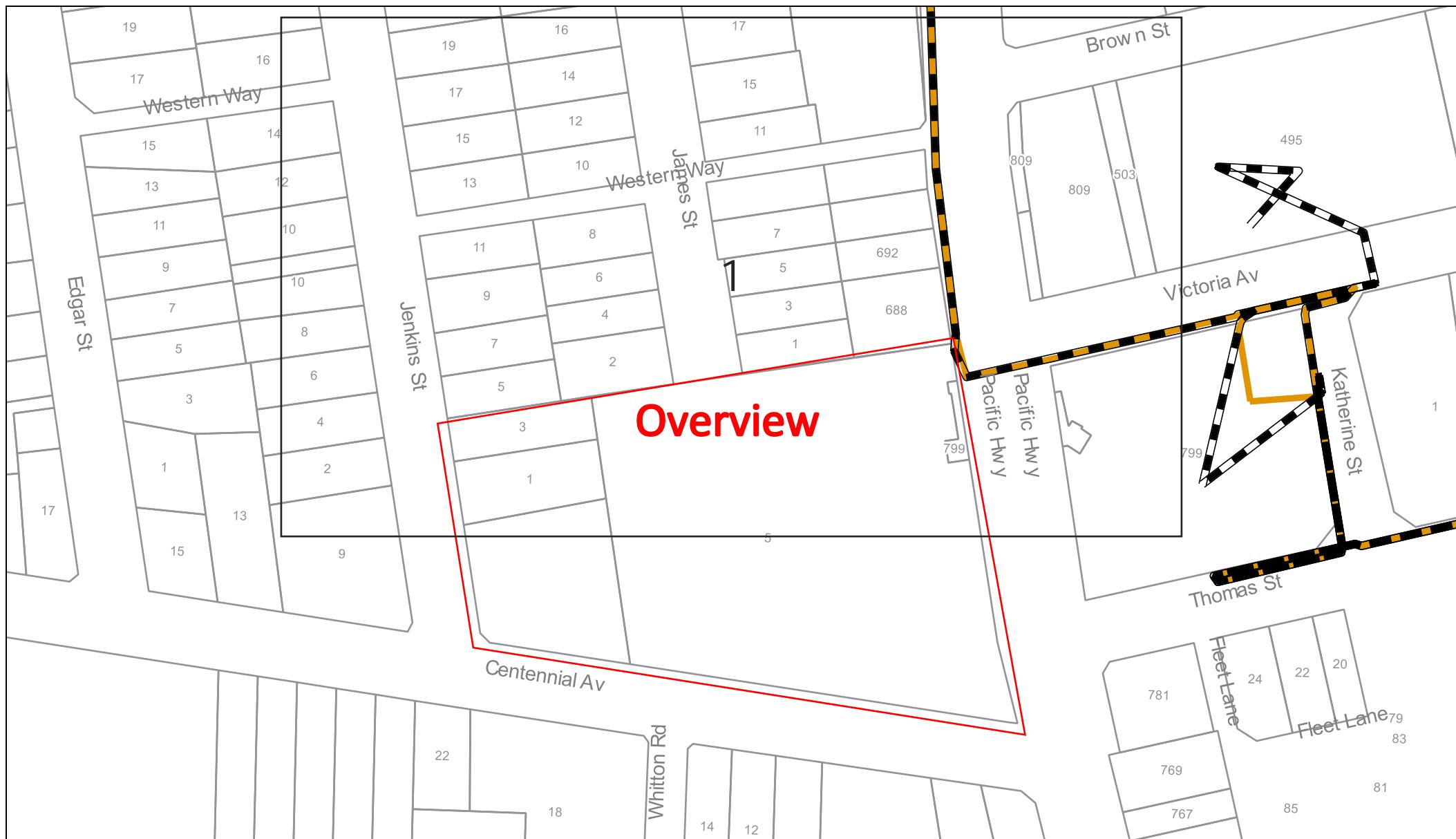
Issue Date: 24/05/2021
DBYD Seq No: 110051714
DBYD Job No: 21679001
 0m 10m 20m 30m 40m 50m 60m 70m 80m

WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagrammatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.



Emergency Contacts

You must immediately report any damage to the **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.



Sequence Number: 110051709

Date: 24/05/2021

DISCLAIMER: THIS DRAWING SHOULD NOT BE SCALED TO LOCATE CABLES. NO WARRANTY IS GIVEN THAT THE INFORMATION IS ACCURATE OR COMPLETE. IF YOU REQUIRE INFORMATION REGARDING LOCATING THE CABLE PLEASE CALL NEXTGEN. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR DIAL BEFORE YOU DIG USE. THIS PLAN CONTAINS COMMERCIALLY SENSITIVE INFORMATION AND IS TO BE TREATED ACCORDINGLY. NO SUCH INFORMATION IS TO BE PASSED ONTO OTHER PARTIES WITHOUT WRITTEN CONSENT FROM NEXTGEN PTY LTD.



LEGEND

| Digsite | Assets |
|---------|----------------|
| | Area |
| | Cable |
| | 3rd Party Duct |
| | Marker Post |



Sequence Number: 110051709

Date: 24/05/2021

LEGEND

| Digsite | Assets |
|---------|----------------|
| | Area |
| | Cable |
| | 3rd Party Duct |
| | Marker Post |

DISCLAIMER: THIS DRAWING SHOULD NOT BE SCALED TO LOCATE CABLES. NO WARRANTY IS GIVEN THAT THE INFORMATION IS ACCURATE OR COMPLETE. IF YOU REQUIRE INFORMATION REGARDING LOCATING THE CABLE PLEASE CALL NEXTGEN. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR DIAL BEFORE YOU DIG USE. THIS PLAN CONTAINS COMMERCIALLY SENSITIVE INFORMATION AND IS TO BE TREATED ACCORDINGLY. NO SUCH INFORMATION IS TO BE PASSED ONTO OTHER PARTIES WITHOUT WRITTEN CONSENT FROM NEXTGEN PTY LTD.





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Optus Plans and information supplied are valid for 30 days from the date of issue. If this timeline has elapsed please raise a new enquiry.

Sequence Number: 110051713

Date Generated: 24/05/2021



For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208





Uecomm Cable Uecomm Underground

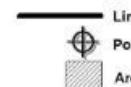
Scale: #INSERT MAP SCALE#

Printed On: 24/05/2021

Sequence Number: 110051713
Location: 5 Centennial Avenue



Job Location



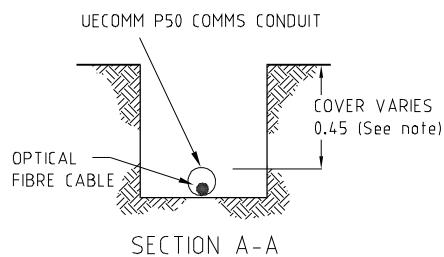
Underground Asset



This document is confidential and may also be privileged, and neither confidentiality nor privilege is waived lost or destroyed by virtue of it being transmitted to an incorrect addressee. Unauthorised use of the contents is therefore strictly prohibited. Any information contained in this document that has been extracted from our records is believed to be accurate, but no responsibility is assumed for any error or omission.

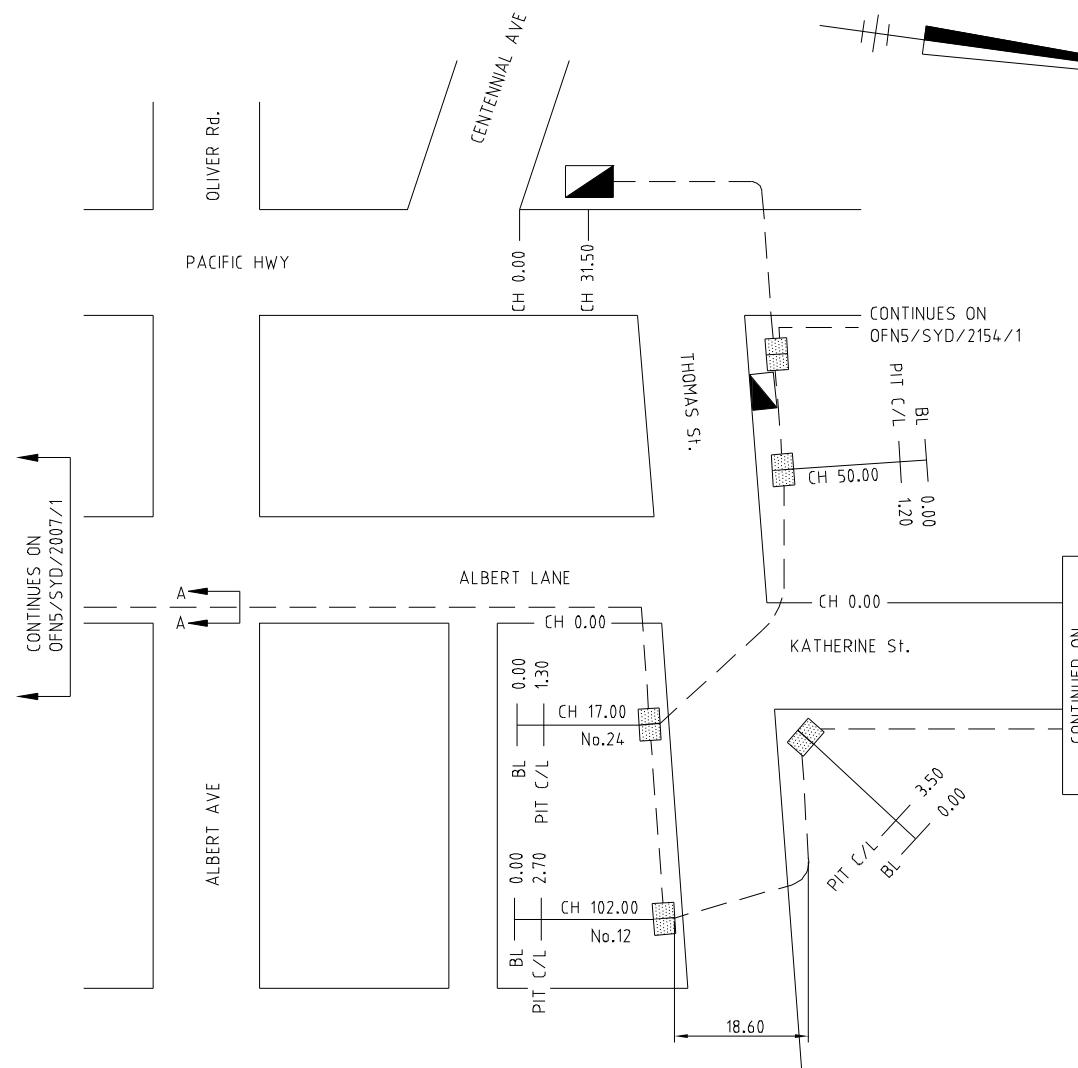
LEGEND

- (○) - ELECTRICITY POLE
- (—) - FIBRE OPTIC CABLE
- (■) - UE P5 PIT
- (□) - UE P6 PIT
- B/L - BUILDING LINE
- BOK - BACK OF KERB
- CO - COVER
- (\-\-\>) - FENCE LINE
- (■) - TELSTRA MANHOLE
- (○) - TELSTRA PIT



NOTE

Conduit depths quoted are approximate only and may change due to unforeseen circumstances. Excavate by hand until conduit depth is determined.



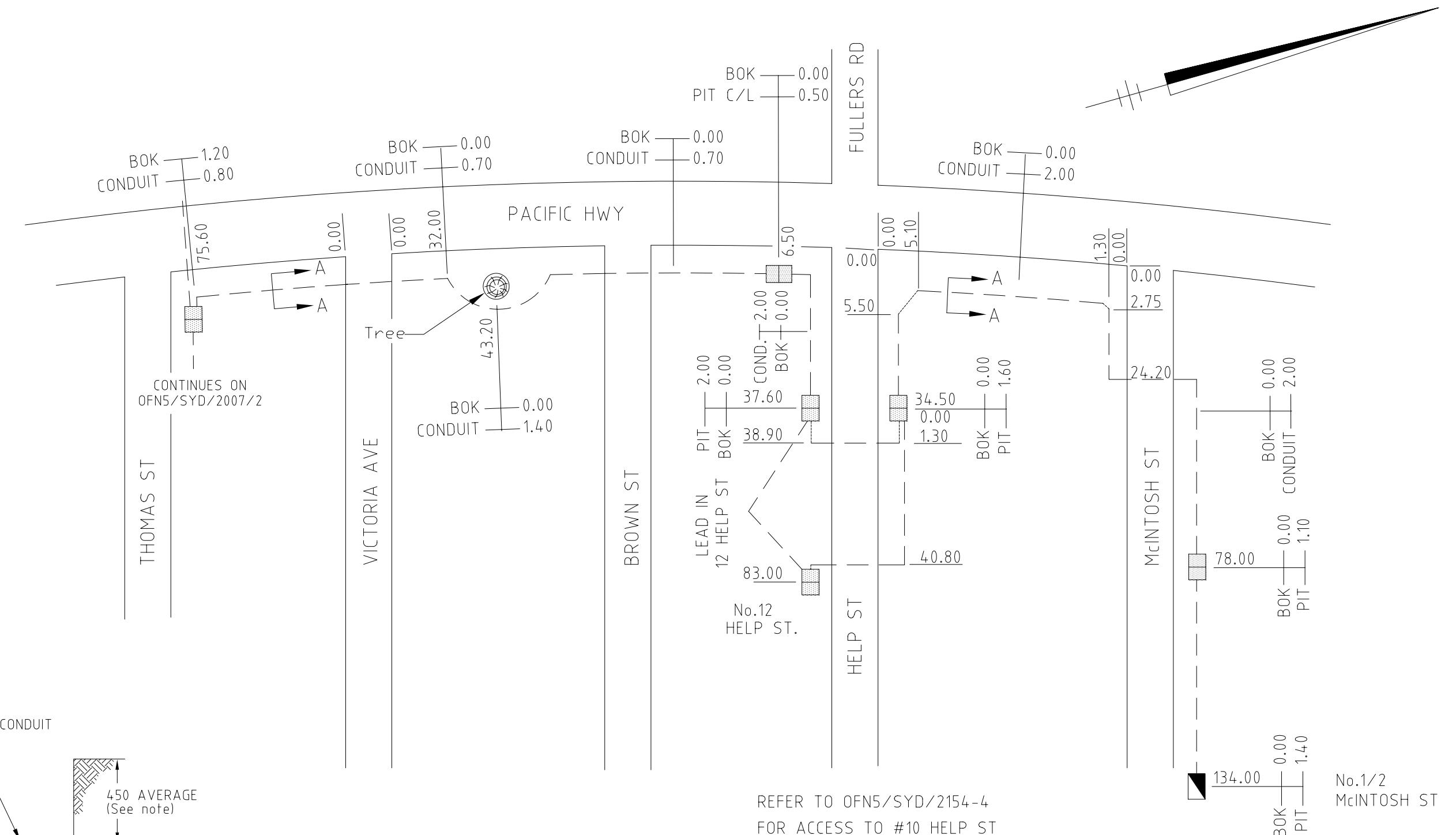
DRAWING NOT TO SCALE

| REVISIONS | | | | DRAWN SPENNEY 27-07-00 | APPROVED R.BROWNE 1-9-00 | DRG No. OFN5/SYD/2007/2 | B |
|-----------|---|--|-----|------------------------------|--------------------------------|--|----|
| 23.04.01 | B | PIT AT THOMAS & PACIFIC ADDED WITH NEW CABLE | GRQ | | | UNDERGROUND OPTICAL FIBRE CABLE RUN ALBERT AVE TO PACIFIC HWY & KATHERINE ST VIA ALBERT LANE & THOMAS ST CHATSWOOD - 2067 | A3 |
| 20.02.01 | A | TITLE REVISED | GRQ | | UBD REF. 195 H10 | | |



LEGEND

- (○) - ELECTRICITY POLE
 - (—) - FIBRE OPTIC CABLE
 - (----) - CABLE CONDUIT
 - ([]) - UE P5 PIT
 - ([]) - UE P6 PIT
 - B/L - BUILDING LINE
 - BOK - BACK OF KERB
 - \—\ - FENCE LINE
 - (■) - TELSTRA MANHOLE
 - (⑥) - TELSTRA PIT



Ø50 PVC COMMS CONDUIT

OPTICAL FIBRE CABLE

450 AVERAG
(See note)

SECTION A-A

Note:
Conduit depths quoted are approximate only and
may change due to unforeseen circumstances.
Excavate by hand until conduit depth is determined.

REFER TO OFN5/SYD/2154-4
FOR ACCESS TO #10 HELP ST

DRAWING NOT TO SCALE

| REVISIONS | | | |
|-----------|---|---------------------|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 21.02.07 | B | REFERENCE TO 2154-4 | |
| 23.04.01 | A | PITS ADDED | GRQ |



ACN 079 083 195
SYDNEY
Suite 902, 20 Berry St
North Sydney - 2065

DRAWN G.R.QUI
27.02.06

APPROVED
S. Henry
27.02.01

UBD REF.
23-E10,D9,D8,E8,E7

DRG No. OFN5/SYD/2154-1

U/G FIBRE OPTICAL CABLE RUN
THOMAS ST TO McINTOSH ST VIA
PACIFIC HIGHWAY & HELP ST
CHATSWOOD NSW 2067

1

A

LEGEND

○ - ELECTRICITY POLE

— FIBRE OPTIC CABLE

..... - CABLE CONDUIT

■ - UE P5 PIT

■ - UE P6 PIT

B/L - BUILDING LINE

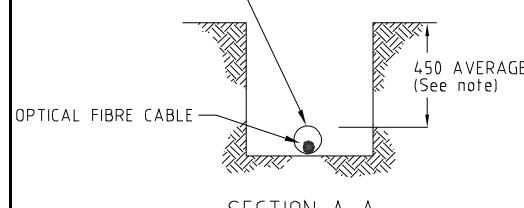
BOK - BACK OF KERB

— - FENCE LINE

■ - TELSTRA MANHOLE

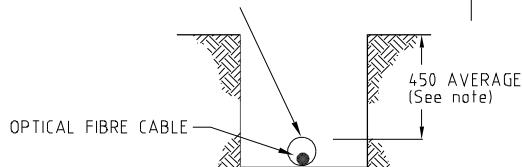
⑥ - TELSTRA PIT

Ø63 PVC COMMS CONDUIT



SECTION A-A

Ø100 PVC COMMS CONDUIT



SECTION B-B

Note:

Conduit depths quoted are approximate only and may change due to unforeseen circumstances.
Excavate by hand until conduit depth is determined.

VICTORIA AVE

PACIFIC HWY

CITADEL TOWER B

CITADEL TOWER A

PIT C/L
BOK
0.00
1.10

4.20 PIT C/L
BOK
0.00
0.00

4.20
36.10

BOK
PIT
0.00
2.70

THOMAS ST

ALBERT LANE

CARPARK

AMATEK - ROCALA
No.6 - 8

B/L 0.00
PIT 1.40

PROJ BOK 0.00
15.70

C

C

BOK 0.00
M/HOLE 1.40

13.00

B

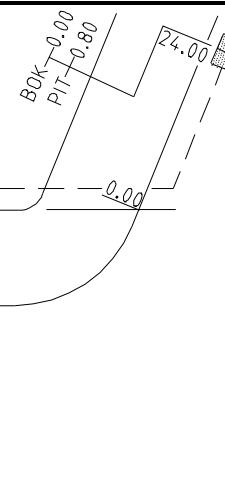
B

BOK 0.00
PIT 2.70

5.20

BOK 0.00
PIT 2.70

85.00



SECTION C-C

DRAWING NOT TO SCALE

REVISIONS

DRAWN G.QUIN
27.02.01

APPROVED
SPENRY
27.02.01

UBD REF.
23-E10, F9

DRG No. OFN5/SYD/2154/2

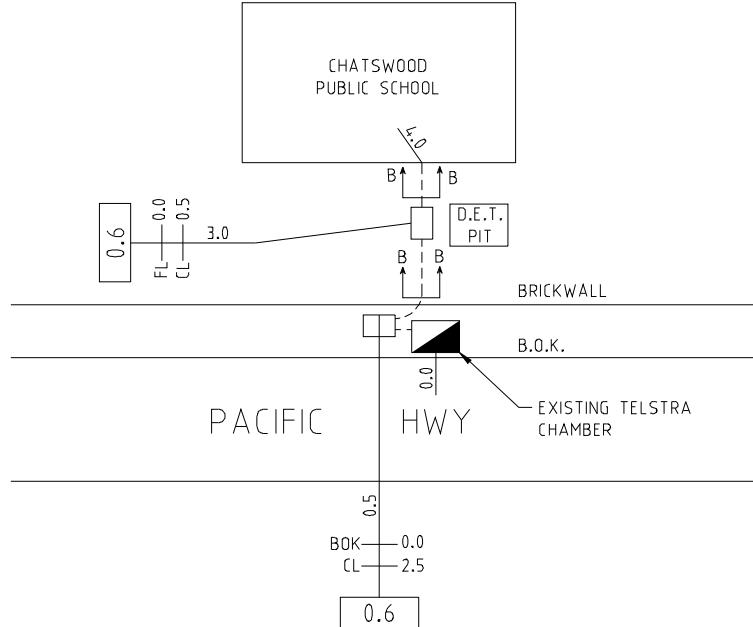
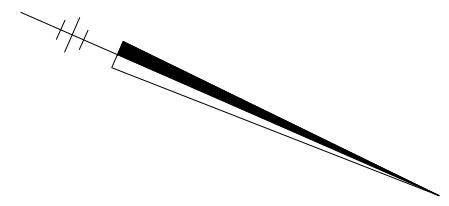
UNDERGROUND FIBRE OPTICAL CABLES
PACIFIC HWY TO VICTORIA AVE VIA
THOMAS ST & KATHERINE ST
CHATSWOOD - 2067



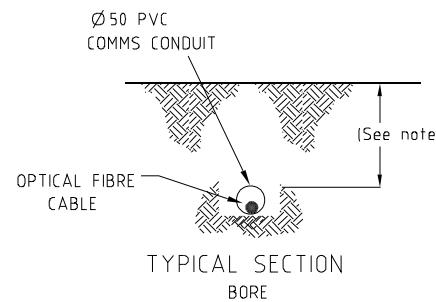
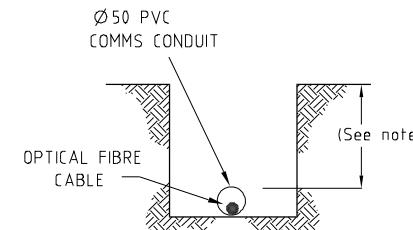
SYDNEY
Suite 902, 20 Berry St
North Sydney - 2060

LEGEND

- (○) - ELECTRICITY POLE
- (—) - FIBRE OPTIC CABLE
- (---) - CABLE CONDUIT (TRENCHING)
- (- - -) - CABLE CONDUIT (BORE TUNNELLING)
- (■) - UE P2 PIT
- (□) - UE P5 PIT
- (□) - UE P6 PIT
- (☒) - UE P8 PIT
- (☒) - UE P9 PIT
- BL - BUILDING LINE
- BOK - BACK OF KERB
- CL - CENTRELINE OF CONDUIT
- TP - TURNING POINT OF CONDUIT
- FL - FENCE LINE, FL
- (▨) - TELSTRA MANHOLE
- (○) - TELSTRA PIT
- (—) - OPTICAL FIBRE JOINT
- (◎) - JOINT LOOP (m) - POLE / UNDERGROUND
- (○) - CABLE HEAD POLE
- 0.6m - CABLE DEPTH

DRAWING NOT TO SCALE**Note:**

1. Conduit depths quoted are approximate only and may change due to unforeseen circumstances.
2. In all instances it is recommended that the position of conduits & cables should be proved on site by hand, prior to commencement of works.
3. Loop in all pits unless otherwise stated.

**TYPICAL SECTION
BORE****SECTION B-B
TRENCH**

| | | | | | | | | | |
|----------|----------|----------------------|----------|--------|----|-----------------|------------------------------------|------------------------------------|--|
| REVISION | 26.07.03 | 0 | AS BUILT | MW | DC | CONTACT OFFICER | TREVOR SMITH PH: (02) 8226 3244 | DRAWN J.M.C. 26.07.03 | DRG No. OFN5-SYD-2391 |
| | | | | | | PROJECT NUMBER | UEC-DE&TS-470 | DESIGN CHECKED M.W. 26.07.03 | |
| | | | | | | PLAN No. | - | APPROVED | EXTERNAL ROUTE (1 of 1) CHATSWOOD PUBLIC SCHOOL (7409) PACIFIC HIGHWAY, CHATSWOOD WEST 2067 |
| | | | | | | UBD REF | 195-G10 | 26.07.03 A3 | |
| | | | | | | UECOMM | MEL/SYD/QLD | | |
| DATE | REV. | REVISION DESCRIPTION | CHECKED | APP'D. | | | | | |

Guide to reading Sydney Water DBYD Plans





Asset Information

Sydney
WATER

Legend

| Sewer | | Property Details | |
|---|------------------|--|----------|
| Sewer Main (with flow arrow & size type text) | 225 PVC | Boundary Line | |
| Disused Main | | Easement Line | 25 6 |
| Rising Main | | House Number | 26 8 |
| Maintenance Hole (with upstream depth to invert) | 1.7 | Lot Number | 27 10 12 |
| Sub-surface chamber | | Proposed Land | 28 |
| Maintenance Hole with Overflow chamber | | Sydney Water Heritage Site (please call 132 092 and ask for the Heritage Unit) | |
| Ventshaft EDUCT | | | |
| Ventshaft INDUCT | | | |
| Property Connection Point (with chainage to downstream MH) | 101.5 | | |
| Concrete Encased Section | Concrete Encased | | |
| Terminal Maintenance Shaft | TMS | | |
| Maintenance Shaft | MS | | |
| Rodding Point | | | |
| Lamphole | | | |
| Vertical | VERT | | |
| Pumping Station | SP0882 | | |
| Sewer Rehabilitation | | | |
| Pressure Sewer | | Water | |
| Pressure Sewer Main | | WaterMain - Potable (with size type text) | 200 PVC |
| Pump Unit (Alarm, Electrical Cable, Pump Unit) | A | Disconnected Main - Potable | |
| Property Valve Boundary Assembly | | Proposed Main - Potable | |
| Stop Valve | * | Water Main - Recycled | |
| Reducer / Taper | | Special Supply Conditions - Potable | |
| Flushing Point | R | Special Supply Conditions - Recycled | |
| | | Restrained Joints - Potable | |
| | | Restrained Joints - Recycled | |
| | | Hydrant | |
| | | Maintenance Hole | |
| | | Stop Valve | * |
| | | Stop Vale with By-pass | * |
| | | Stop Valve with Tapers | * |
| | | Closed Stop Valve | * |
| | | Air Valve | → |
| | | Valve | □ |
| | | Scour | ⊗ |
| | | Reducer / Taper | + |
| | | Vertical Bends | × |
| | | Reservoir | 🌐 |
| | | Recycled Water is shown as per Potable above. Colour as indicated | * |
| Vacuum Sewer | | Private Mains | |
| Pressure Sewer Main | | Potable Water Main | |
| Division Valve | | Recycled Water Main | |
| Vacuum Chamber | | Sewer Main | |
| Clean Out Point | | Symbols for Private Mains shown grey | |
| Stormwater | | | |
| Stormwater Pipe | | | |
| Stormwater Channel | | | |
| Stormwater Gully | | | |
| Stormwater Maintenance Hole | | | |



Asset Information



Pipe Types

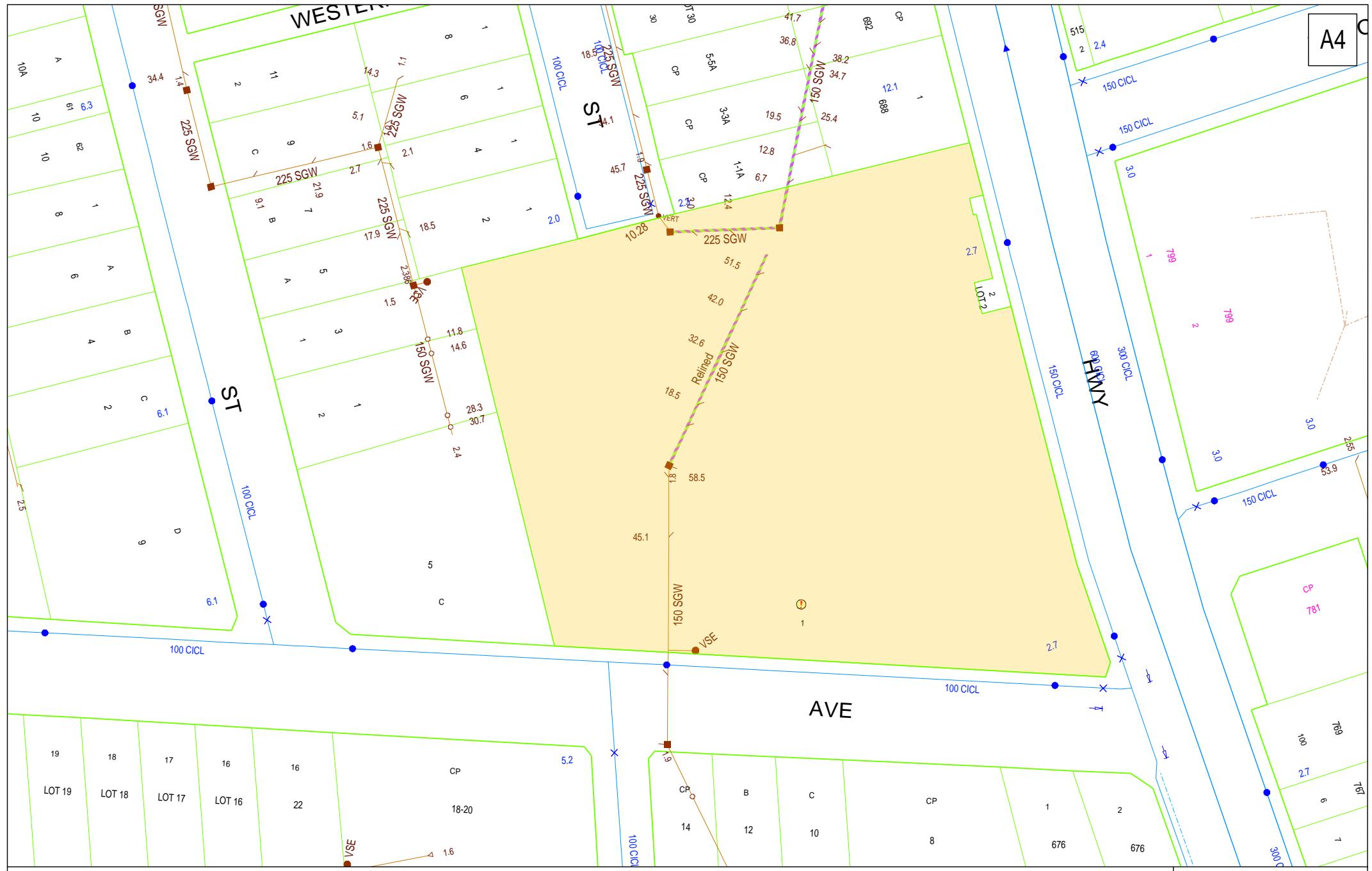
| | | | |
|----------------|------------------------------------|----------------|---|
| ABS | Acrylonitrile Butadiene Styrene | AC | Asbestos Cement |
| BRICK | Brick | CI | Cast Iron |
| CICL | Cast Iron Cement Lined | CONC | Concrete |
| COPPER | Copper | DI | Ductile Iron |
| DICL | Ductile Iron Cement (mortar) Lined | DIPL | Ductile Iron Polymeric Lined |
| EW | Earthenware | FIBG | Fibreglass |
| FL BAR | Forged Locking Bar | GI | Galvanised Iron |
| GRP | Glass Reinforced Plastics | HDPE | High Density Polyethylene |
| MS | Mild Steel | MSCL | Mild Steel Cement Lined |
| PE | Polyethylene | PC | Polymer Concrete |
| PP | Polypropylene | PVC | Polyvinylchloride |
| PVC - M | Polyvinylchloride, Modified | PVC - O | Polyvinylchloride, Oriented |
| PVC - U | Polyvinylchloride, Unplasticised | RC | Reinforced Concrete |
| RC-PL | Reinforced Concrete Plastics Lined | S | Steel |
| SCL | Steel Cement (mortar) Lined | SCL IBL | Steel Cement Lined Internal Bitumen Lined |
| SGW | Salt Glazed Ware | SPL | Steel Polymeric Lined |
| SS | Stainless Steel | STONE | Stone |
| VC | Vitrified Clay | WI | Wrought Iron |
| WS | Woodstave | | |

Further Information

Please consult the [Dial Before You Dig enquiries](#) page on the Sydney Water website

For general enquiries please call the Customer Contact Centre on **132 092**

In an emergency, or to notify Sydney Water of damage or threats to its structures, call **13 20 90** (24 hours, 7 days)



DBYD Address:
5 Centennial Avenue
Chatswood NSW
2067

DBYD Job No: 21679001
DBYD Sequence No: 110051715

Copyright Reserved Sydney Water 2021

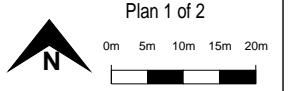
No warranty is given that the information shown is complete or accurate.

SYDNEY WATER CORPORATION

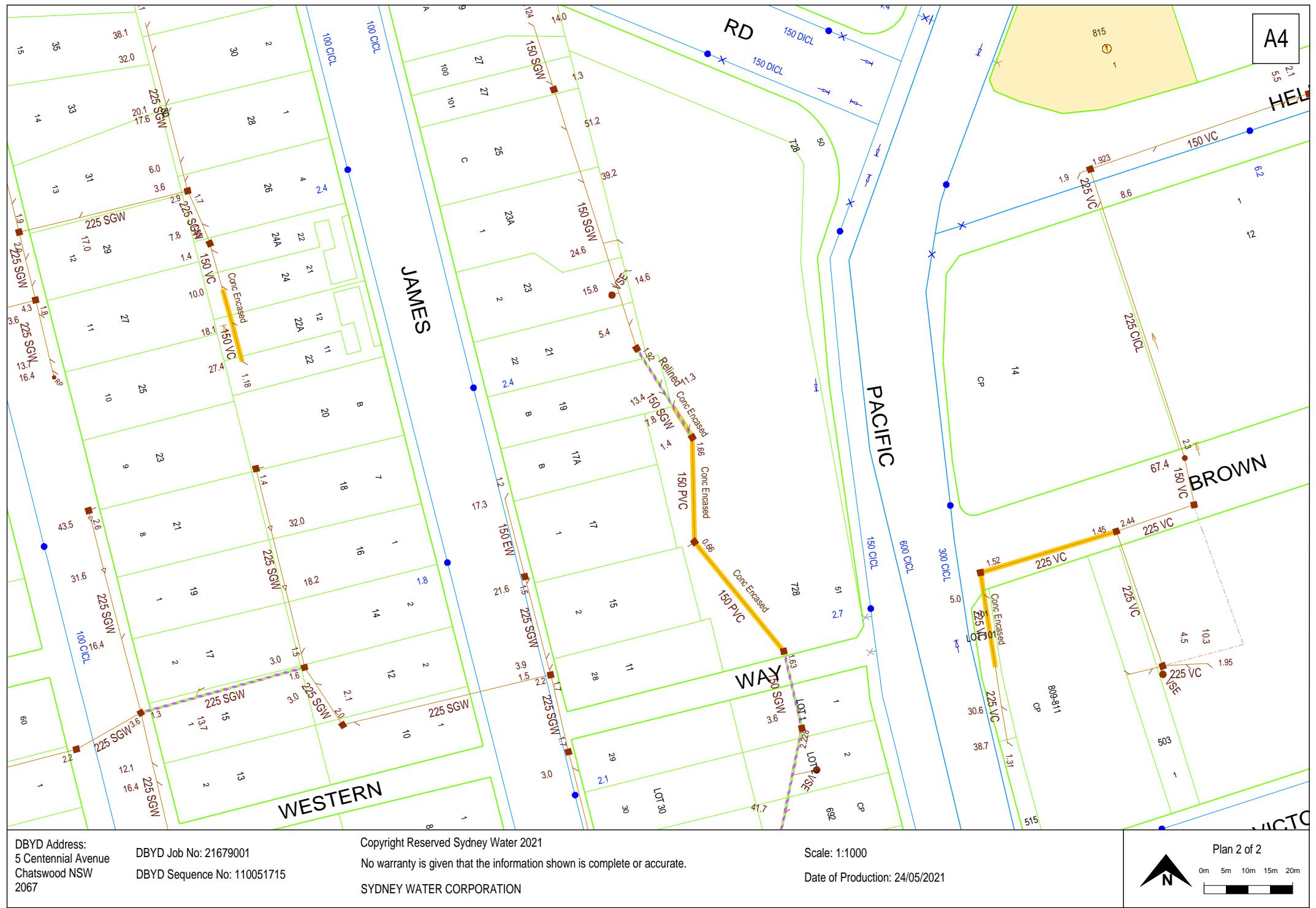
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Date of Production: 24/05/2021

Plan 1 of 2



A4



LEGEND

IT'S HOW
WE CONNECT



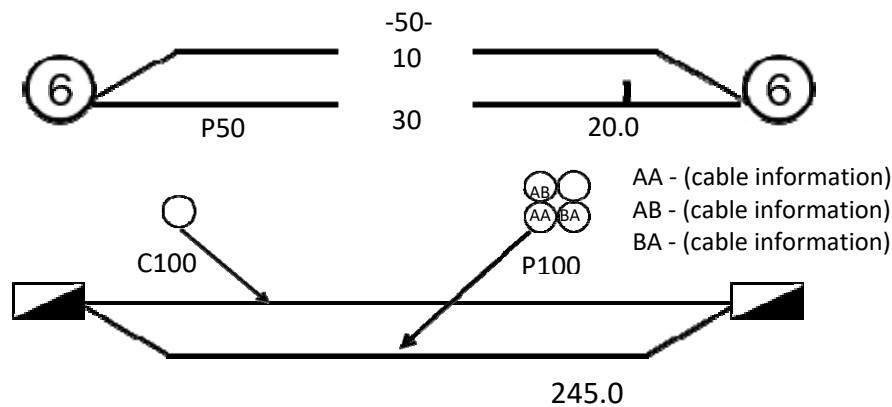
For more info contact a Certified Location Organisation or Telstra Plan Services 1800 653 935

| | | | |
|------|--|--|--|
| | Exchange (Major Cable Present) | | Cable Jointing Pit (number indicating Pit Type) |
| | Footway Access Chamber (can vary from 1-lid to 12-lid) | | Elevated Joint (above ground joint on buried cable) |
| or | Pillar / Cabinet (above ground / free standing) | | Telstra Plant in shared Utility trench |
| | Above ground complex equipment housing (eg RIM) Please Note: This equipment is powered by 240V Electricity | | Aerial Cable |
| OC | Other Carrier | | Aerial Cable (attached to joint Use Pole eg. Power) |
| Dist | Distribution cables in Main Cable ducts | | Direct Buried Cable |
| MC | Main Cable ducts on a Distribution plan | | Marker Post Installed |
| | Blocked or damaged duct. | | Buried Transponder |
| | 2 pair lead-in to property from pit in street 1 pair working (pair ID 059) 1 pair dead (i.e. spare, not connected) | | Marker Post, Transponder |
| | Single to multiple round conduit Configurations 1,2,4,9 respectively P100 (attached text denotes conduit type and size) | | Optical Fibre cable direct buried |
| | Multiple square conduit Configurations 2, 4, 6 respectively E85 (attached text denotes conduit type and size) | | |

Some examples of conduit type and size:

A - Asbestos cement, P - PVC / Plastic, C - Concrete,
GI - Galanised iron, E - Earthenware
Conduit sizes *nominally* range from 20mm to 100mm
P50 50mm PVC conduit
P100 100mm PVC conduit
A100 100mm asbestos cement conduit

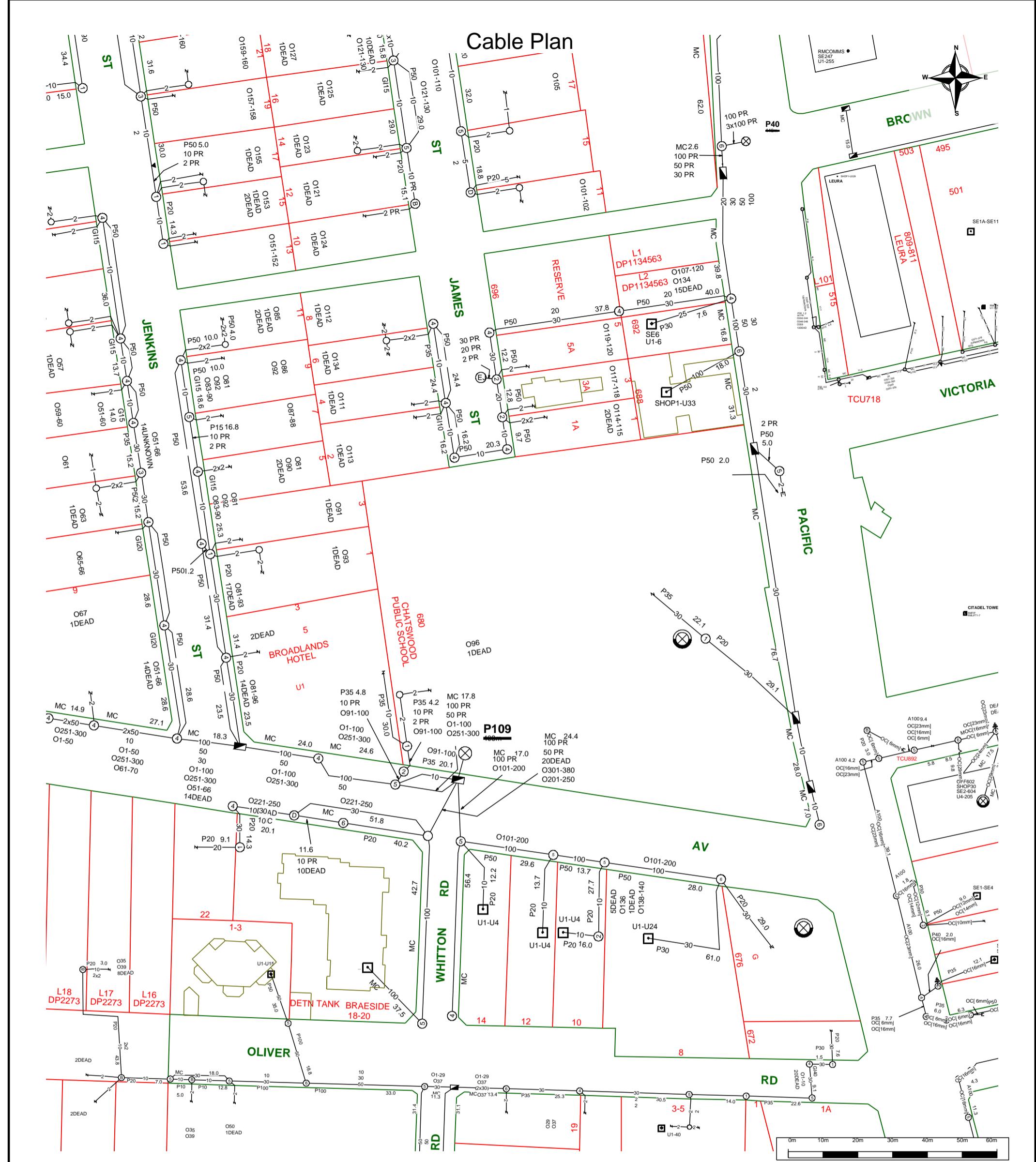
Some Examples of how to read Telstra Plans



One 50mm PVC conduit (P50) containing a 50-pair and a 10-pair cable between two 6-pits. 20.0m apart, with a direct buried 30-pair cable along the same route

Two separate conduit runs between two footway access chambers (manholes) 245m apart. A nest of four 100mm PVC conduits (P100) containing assorted cables in three ducts (one being empty) and one empty 100mm concrete duct (C100) along

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. **FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK.** A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works. The exact position of Telstra assets can only be validated by physically exposing it. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.



For all Telstra DBYD plan enquiries -
email - Telstra.Plans@team.telstra.com
For urgent onsite contact only - ph 1800 653 935 (bus hrs)

Sequence Number: 110051712

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 24/05/2021 14:48:08

**CAUTION: Critical Network Route in plot area.
DO NOT PROCEED with any excavation prior to
seeking advice from Telstra Plan Services on :
1800 653 935**

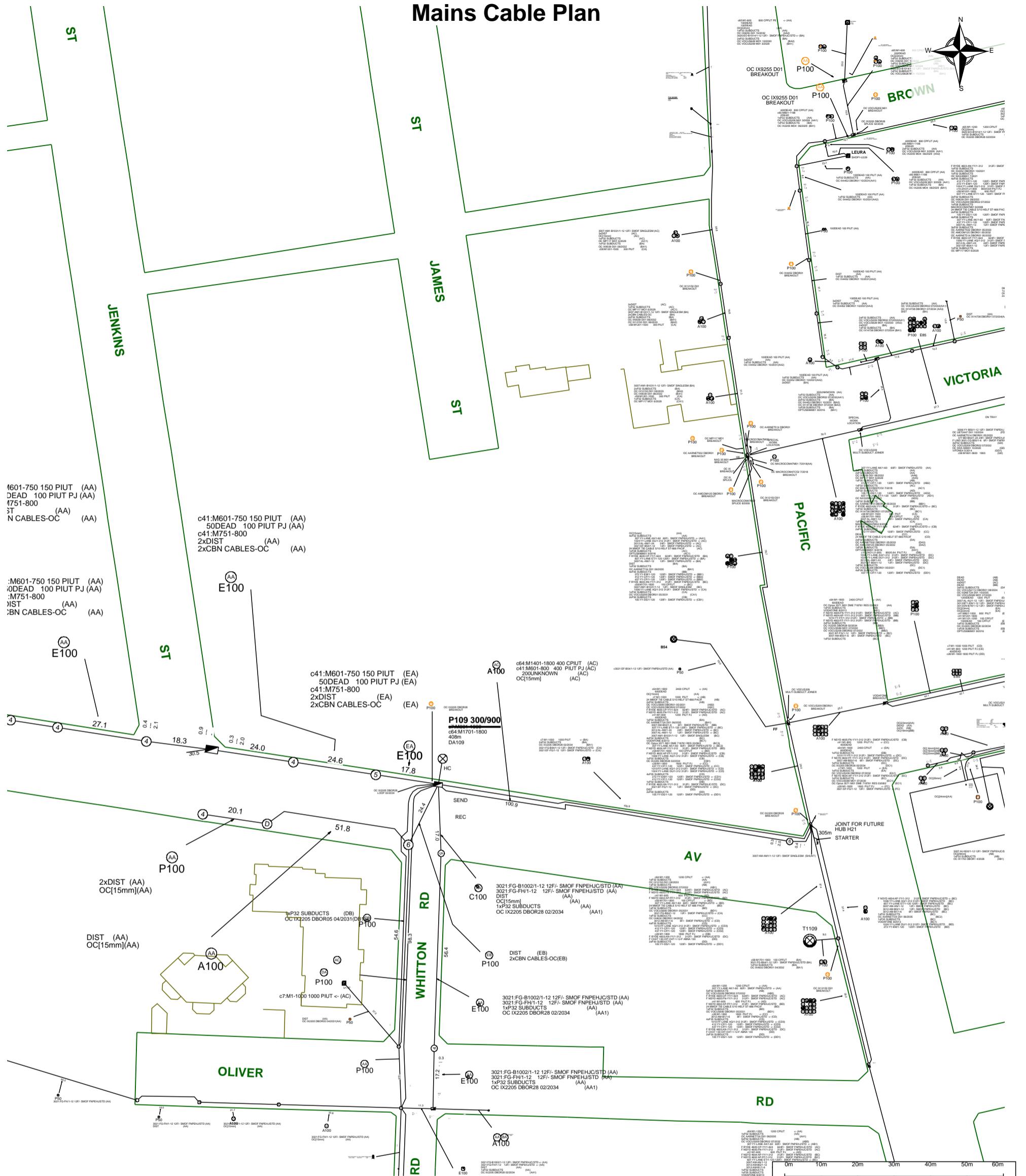
WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.

Mains Cable Plan



For all Telstra DBYD plan enquiries -
email - Telstra.Plans@team.telstra.com
For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 24/05/2021 14:48:14

Sequence Number: 110051712

**CAUTION: Critical Network Route in plot area.
DO NOT PROCEED with any excavation prior to seeking advice from Telstra Plan Services on : 1800 653 935**

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

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Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.



Date: 24/05/2021

Enquirer Name: Mr Ted Zhang
Enquirer Address: 362 park road
Email: ted@acedemolition.com.au
Phone: 0451460330

Dear Mr Ted Zhang

The following is our response on behalf of each of the TPG carriers (listed below) to your Dial Before You Dig enquiry – Sequence 110051710. It is provided to you on a confidential basis under the following conditions and must be shredded or securely disposed of after use.

Assets Affected:

Carriers (each a "TPG carrier") and assets affected:

AAPT/PowerTel, PIPE Networks

Location: 5 Centennial Avenue

According to our records, the underground assets in the vicinity of the location stated in your enquiry are **AFFECTED**. Please read the below information and disclaimers in addition to the any attached plans provided prior to any construction activities.

IMPORTANT INFORMATION

- The information provided is valid for 30 days from the date of this response. If your work site area changes or your construction activity is beyond 30 days please contact Dial Before You Dig on 1100 or www.1100.com.au to re-submit a new enquiry.
- Due to the nature of underground assets and the age of some assets and records, our plans are indicative of the general location only and may not show all assets in the location. You should not solely rely on these plans when undertaking construction works. It is also inaccurate to assume depth or that underground network conduit and cables follow straight lines, and careful on-site investigations are essential to locate an asset's exact position prior to excavation. It is your responsibility to locate and confirm the exact location of our infrastructure using non-destructive techniques. We make no warranty or guarantee that our plans are complete, current or error free, and to the maximum extent permitted by law we exclude all liability to you, your employees, agents and contractors for any loss, damage or claim arising out of or in connection with using our plans.
- Please note that some of our conduits carry electrical cables and gas pipes. Please exercise extreme care when working within the vicinity of these conduit and take into account the minimum clearance distances under Duty Of Care below.
- You (and your employee and contractors) must not open, move, interfere, alter or relocate any of our assets without our prior approval.
- **Note** It is a criminal offence under the *Criminal Code Act 1995 (Cth)* to tamper or interfere with communication facilities owned by a carrier. Heavy penalties may apply for breach of this prohibition, and any damages suffered, or costs incurred by us as a result of such unauthorised works may be claimed against you.

DAMAGE

- You must report immediately any damage to our network on **1800 786 306** (24hrs). We will hold you liable and seek compensation for any loss or damage to our network, our property and our customers that is caused by or arises out of your activities.

DUTY OF CARE

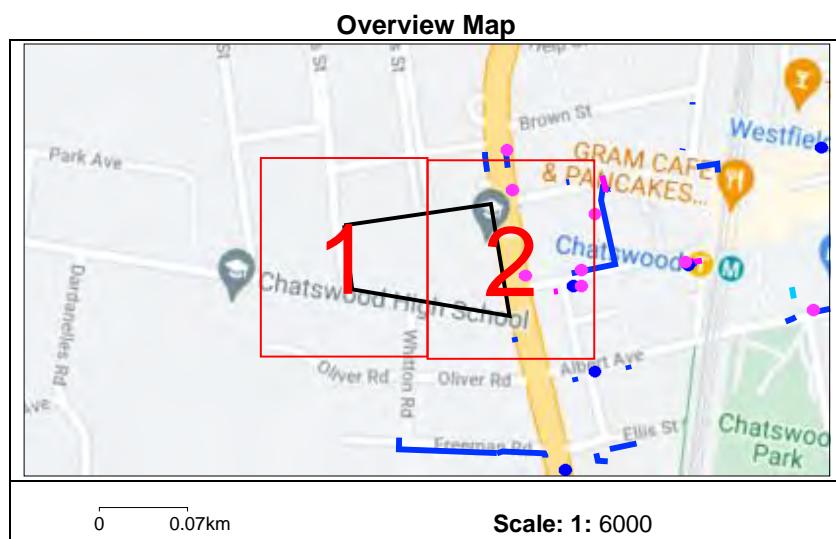
You have a duty of care to carefully locate, validate and protect our assets when carrying out works near our infrastructure. For construction activities that may impact on or interfere with our network, you will need to call us on **1800 786 306** to discuss a suitable engineering solution, lead time and cost involved. The below precautions must be taken when working in the vicinity of our network:

- Contact us on **1800 786 306** to discuss and obtain relevant information and plans on our infrastructure in a particular location if the information provided in this response is insufficient.
- Physically locate and mark on-site our network infrastructure using non-destructive techniques i.e. pot holing or hand digging every 5 metres prior to commencing any construction activities. Assets located must be marked to AS5488 standard. **NO CONSTRUCTION WORK IS ALLOWED UNTIL THIS STEP IS COMPLETED.** You must use an approved telecommunications accredited locator, or we can provide a locator for you at your expense. If we provide you with a locator, and this locator attended the site and is proven to be grossly negligent in physically locating and marking our infrastructure, then to the extent any TPG carrier is liable for this locator's negligence, acts and omissions, the total liability aggregated for all TPG carriers is limited, at our option, to attend the site and re-mark the infrastructure or to pay for a third party to re-mark the infrastructure.
- If you require us to locate or monitor our infrastructure, please allow five business days' notice for us to respond.
- Ensure all information, including our network requirements and any associated plans provided by us are kept confidential and remain on-site throughout your construction works.

- Use suitably qualified and supervised professionals, particularly if you are working near assets that contain electricity cables or gas pipes.
 - Ensure the below minimum clearance distances between the construction activities and the actual location of our assets are met. If you need clearance distances for our above ground assets, or if the below distances cannot be met, call **1800 786 306** to discuss.
- Minimum assets clearance distances.**
- 300mm when laying asset inline, horizontal or vertical.
 - 1000mm when operating vibrating equipment. Eg: vibrating plates. No vibrating equipment on top of asset.
 - 1000mm when operating mechanical excavators or jackhammers/pneumatic breakers.
 - 2000mm when performing directional bore in-line, horizontal and vertical.
 - No heavy vehicle over 3 tonnes to be driven over asset with less than 600mm of cover.
- Reinstate exposed TPG network infrastructure back to original state.

PRIVACY & CONFIDENTIALITY

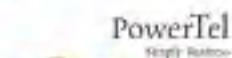
- Privacy Notice – Your information has been provided to us by Dial Before You Dig to respond to your Dial Before You Dig enquiry. We will keep your personal information in accordance with TPG's privacy policy, see www.tpg.com.au/about/privacy.
- Confidentiality – The information we have provided to you is confidential and is to be used only for planning and designing purposes in connection with your Dial Before You Dig enquiry. Please dispose of the information by shredding or other secure disposal method after use. We retain all intellectual property rights (including copyrights) in all our documents and plans.



TransACT

 **DDA**

 **Adam Internet**
Connecting SA

 **PowerTel**
Helping Businesses

 **Agile**
communications
technology understanding people

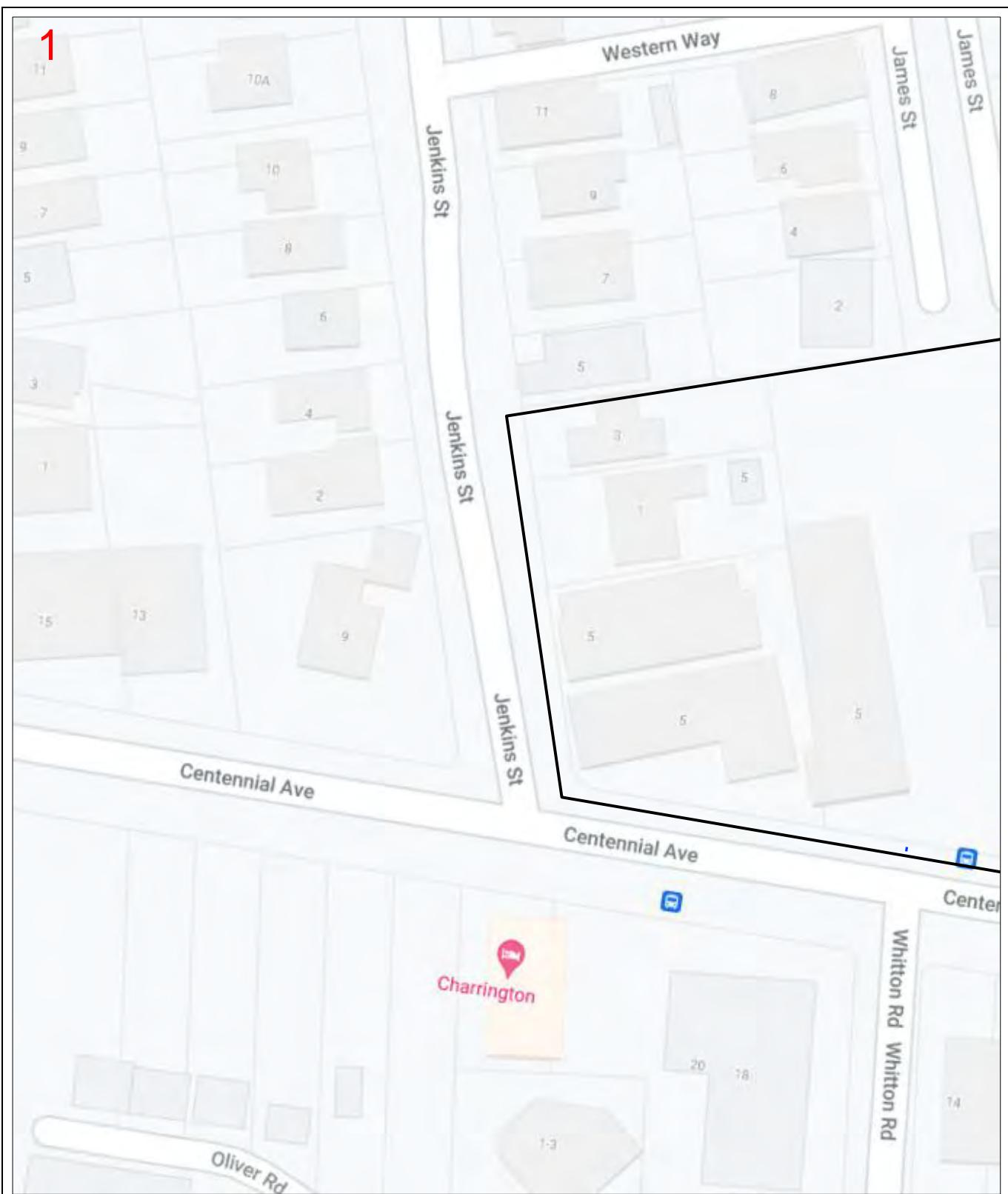
 **Internode**

 **pipednetworks**

 **iinet**

 **AAPT**

TPG Corporation Limited



Enquiry Number: 110051710

Map Sheet: 1

Scale: 1: 750

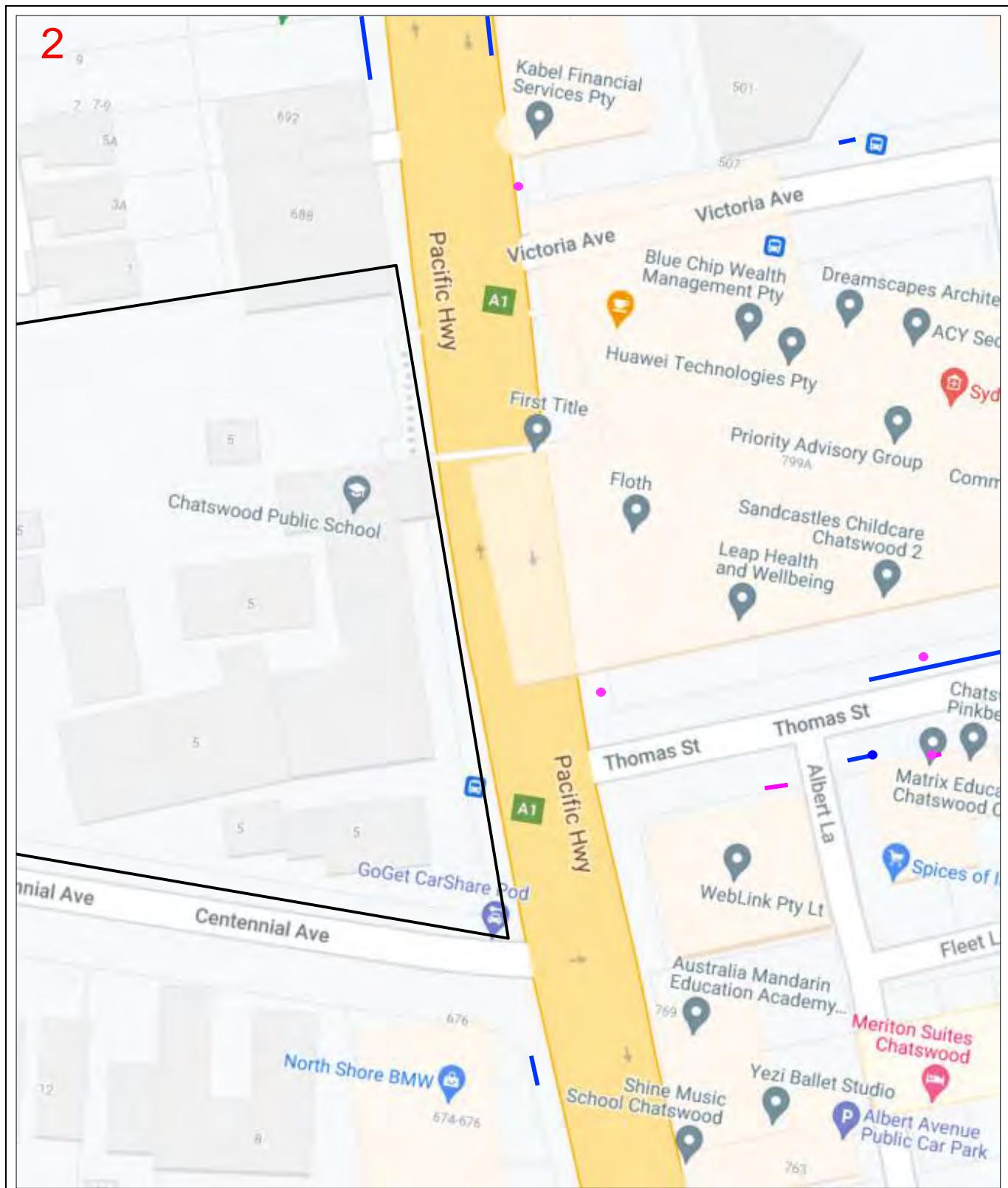
0 0.008km



LEGEND

| DBYD Work Area | |
|------------------------------|---|
| AAPT/PowerTel Pit | ● |
| AAPT/PowerTel Duct | — |
| DDA Pit | ● |
| DDA Duct | — |
| Agile/Adam Pit | ● |
| Agile/Adam Duct | — |
| TransACT Pit | ● |
| TransACT Duct | — |
| SOUL Pattinson Telecoms Pit | ● |
| SOUL Pattinson Telecoms Duct | — |
| PIPE Networks Pit | ● |
| PIPE Networks Duct | — |

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Enquiry Number: 110051710

Map Sheet: 2

Scale: 1: 750

0 0.008km

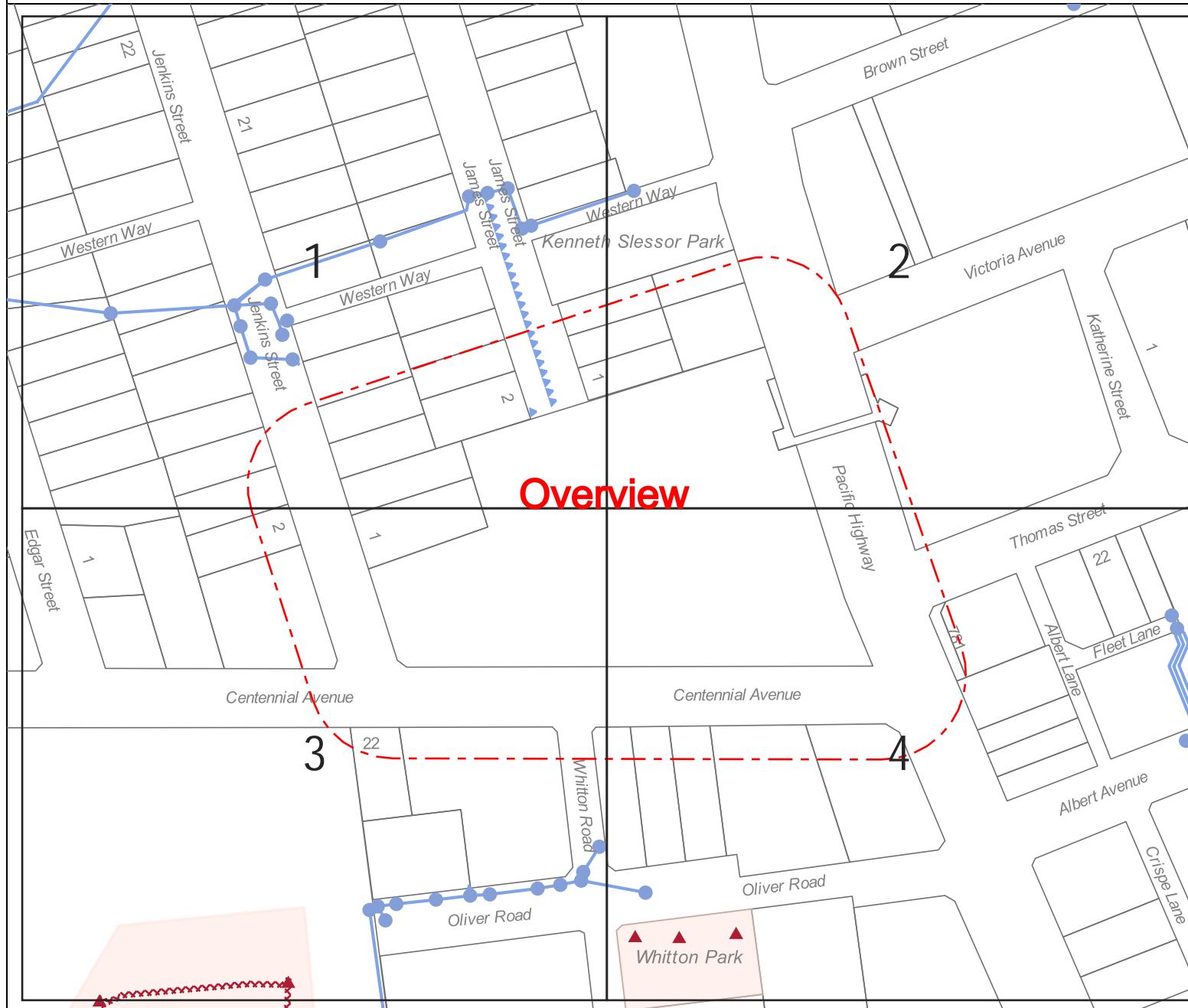


LEGEND

| DBYD Work Area | |
|------------------------------|---|
| AAPT/PowerTel Pit | ● |
| AAPT/PowerTel Duct | — |
| DDA Pit | ● |
| DDA Duct | — |
| Agile/Adam Pit | ● |
| Agile/Adam Duct | — |
| TransACT Pit | ● |
| TransACT Duct | — |
| SOUL Pattinson Telecoms Pit | ● |
| SOUL Pattinson Telecoms Duct | — |
| PIPE Networks Pit | ● |
| PIPE Networks Duct | — |

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Name: Mr Ted Zhang
Email: ted@acedemolition.com.au
Sequence no.: 110051706
Job no.: 21679001
Location: 5 Centennial Avenue, Chatswood, NSW 2067



The information shown on this drawing is provided by Willoughby City Council and details Council's underground stormwater, electrical or communication assets. Unless otherwise indicated, it does not include private assets or assets of any other authority. Where assets are shared or owned by another party, the owner(s) of the asset must be contacted for any further information or approvals regarding the asset.

Information provided on any plans by Willoughby City Council may have inaccuracies or omissions. While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Willoughby City Council or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

Exact positions of any assets shown on this plan must be confirmed by field investigation. Please refer to the cover letter attached to your email for further information.

Locations of Council's electrical assets are indicative only and some of these electrical assets may not be displayed on the drawing. Please contact Council on (02) 9777 1000 for further information. All electrical apparatus shall be regarded as live until proven to have been de-energised. Contact with live electrical apparatus will cause severe injury or death.

Excavation work must be in accordance with the Work Health and Safety Regulation 2017 and the SafeWork NSW Excavation Work Code of Practice which can be obtained from SafeWork NSW.

Any works within Council's public road reserve or Council property require Council's consent. Council must be contacted on (02) 9777 1000 prior to the commencement of any work to be carried out in Council property or within the vicinity of Council's electrical assets.



Map not to scale

Name: Mr Ted Zhang
Email: ted@acedemolition.com.au
Sequence no.: 110051706
Job no.: 21679001
Location: 5 Centennial Avenue, Chatswood, NSW 2067



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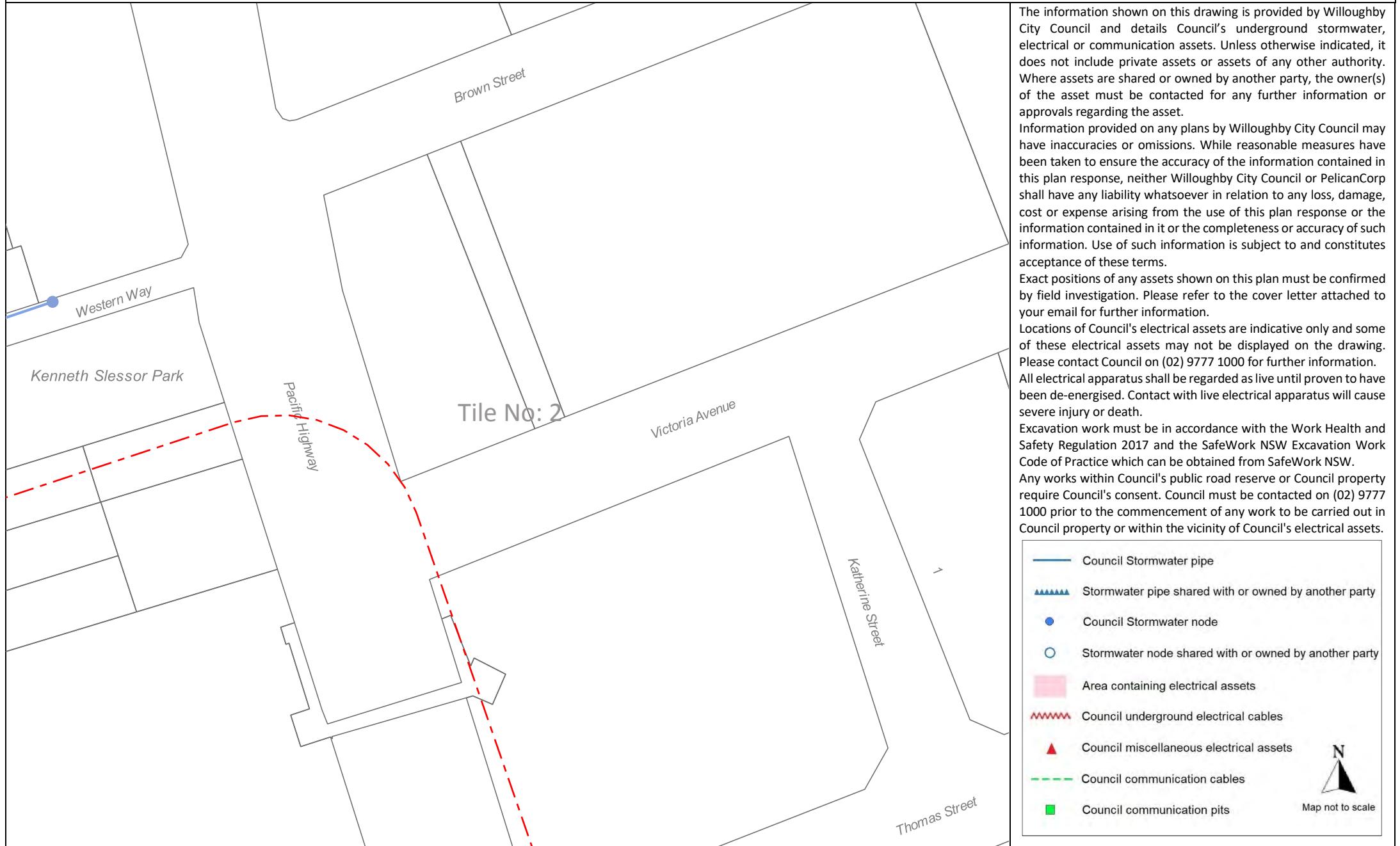
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- Council Stormwater pipe
- ▲▲▲ Stormwater pipe shared with or owned by another party
- Council Stormwater node
- Stormwater node shared with or owned by another party
- Area containing electrical assets
- ~~~~~ Council underground electrical cables
- ▲ Council miscellaneous electrical assets
- - - Council communication cables
- Council communication pits

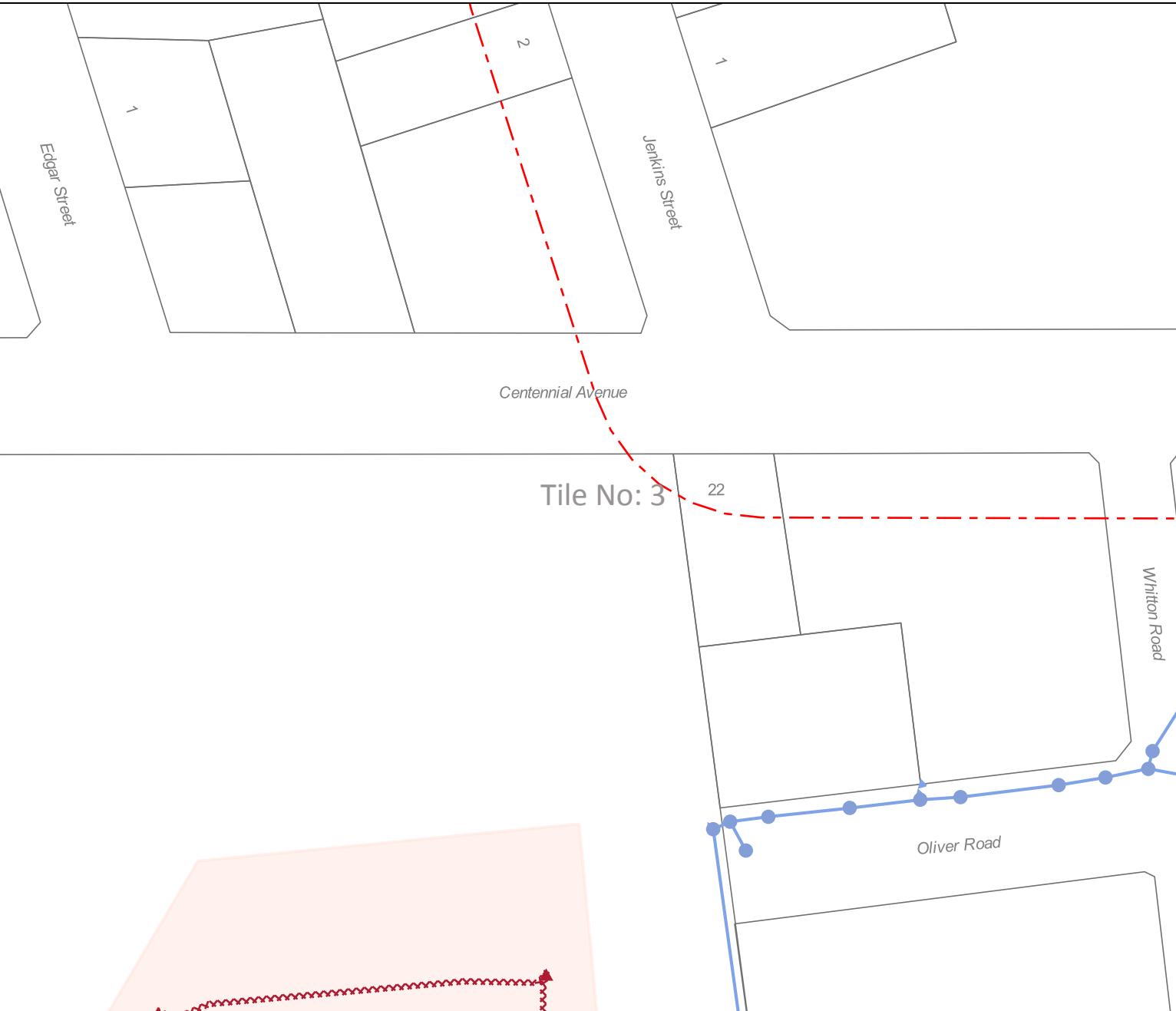


Map not to scale

Name: Mr Ted Zhang
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Location: 5 Centennial Avenue, Chatswood, NSW 2067



The information shown on this drawing is provided by Willoughby City Council and details Council's underground stormwater, electrical or communication assets. Unless otherwise indicated, it does not include private assets or assets of any other authority. Where assets are shared or owned by another party, the owner(s) of the asset must be contacted for any further information or approvals regarding the asset.

Information provided on any plans by Willoughby City Council may have inaccuracies or omissions. While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Willoughby City Council or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

Exact positions of any assets shown on this plan must be confirmed by field investigation. Please refer to the cover letter attached to your email for further information.

Locations of Council's electrical assets are indicative only and some of these electrical assets may not be displayed on the drawing. Please contact Council on (02) 9777 1000 for further information.

All electrical apparatus shall be regarded as live until proven to have been de-energised. Contact with live electrical apparatus will cause severe injury or death.

Excavation work must be in accordance with the Work Health and Safety Regulation 2017 and the SafeWork NSW Excavation Work Code of Practice which can be obtained from SafeWork NSW.

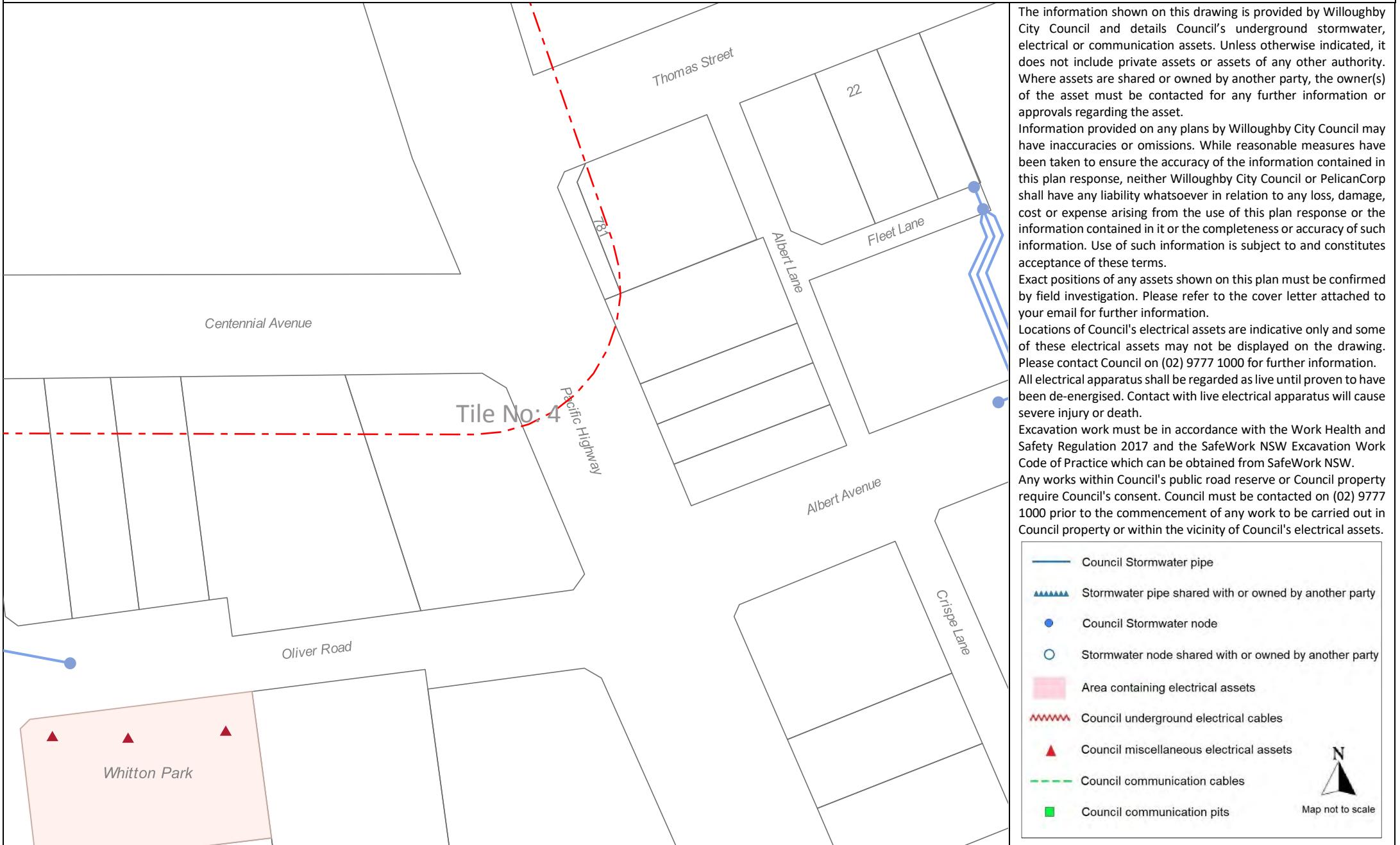
Any works within Council's public road reserve or Council property require Council's consent. Council must be contacted on (02) 9777 1000 prior to the commencement of any work to be carried out in Council property or within the vicinity of Council's electrical assets.

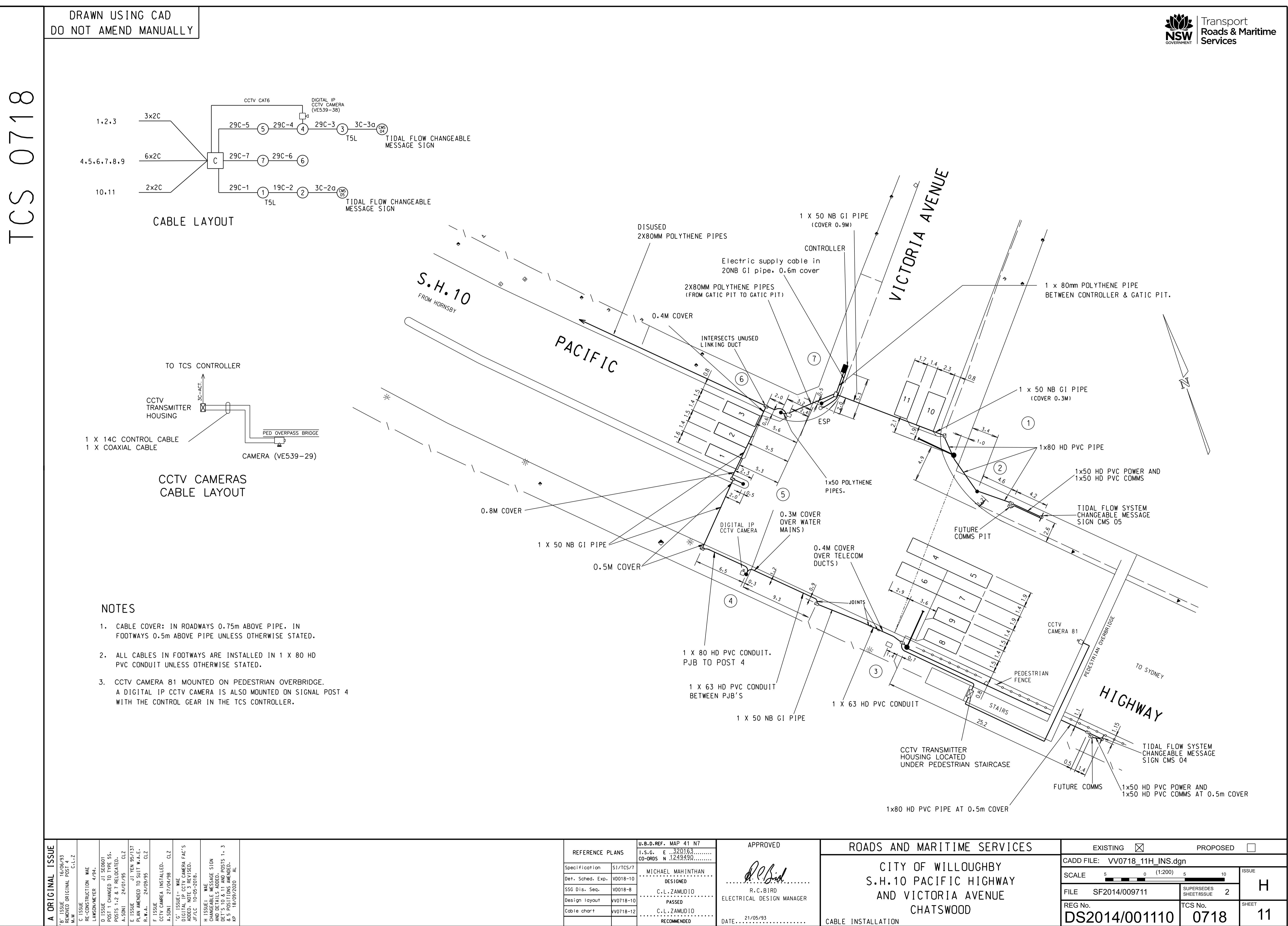
- Council Stormwater pipe
- ▲▲▲ Stormwater pipe shared with or owned by another party
- Council Stormwater node
- Stormwater node shared with or owned by another party
- Area containing electrical assets
- ~~~~~ Council underground electrical cables
- ▲ Council miscellaneous electrical assets
- - - Council communication cables
- Council communication pits



Map not to scale

Name: Mr Ted Zhang
Email: ted@acedemolition.com.au
Sequence no.: 110051706
Job no.: 21679001
Location: 5 Centennial Avenue, Chatswood, NSW 2067



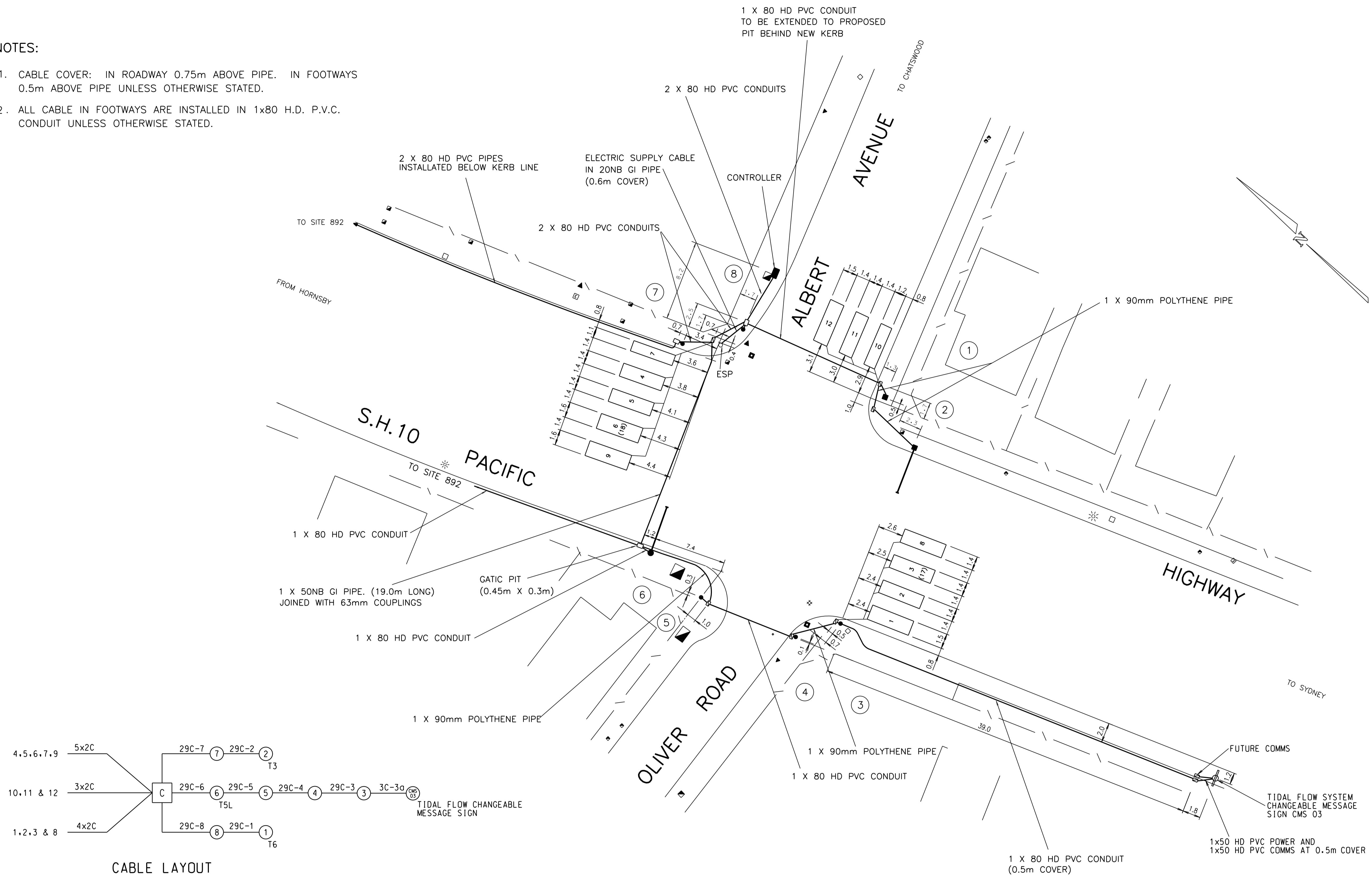


TCS 0882

DRAWN USING CAD
DO NOT AMEND MANUALLY

NOTES:

1. CABLE COVER: IN ROADWAY 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL CABLE IN FOOTWAYS ARE INSTALLED IN 1x80 H.D. P.V.C. CONDUIT UNLESS OTHERWISE STATED.



| | |
|------------------|--|
| A ORIGINAL ISSUE | 30/09/07 |
| B ISSUE | PLAN AMENDED TO SUIT WAE, CL2 |
| C ISSUE | J/1 SS 23 |
| D ISSUE | CHANGEABLE MESSAGE SIGN ADDED - DET'S AND POSTS AMENDED TO SUIT DESIGN PLAN, KP 23-06-39 C.Z |
| E ISSUE | DET'S AND POSTS AMENDED TO SUIT DESIGN PLAN, KP 28/09/2020 AL |

| REFERENCE PLANS | U.B.D.REF. MAP195 H11 |
|------------------|-----------------------|
| Specification | I.S.G. E 316465 |
| Det. Sched. Exp. | CO-ORDS N 258614 |
| SSG Dis. Seq. | R.W.A. 24/11/95 |
| DESIGN LAYOUT | DESIGNED |
| CABLE CONN | C. L. 2000 |
| SHEET 8 | PASSED |
| | RECOMMENDED |

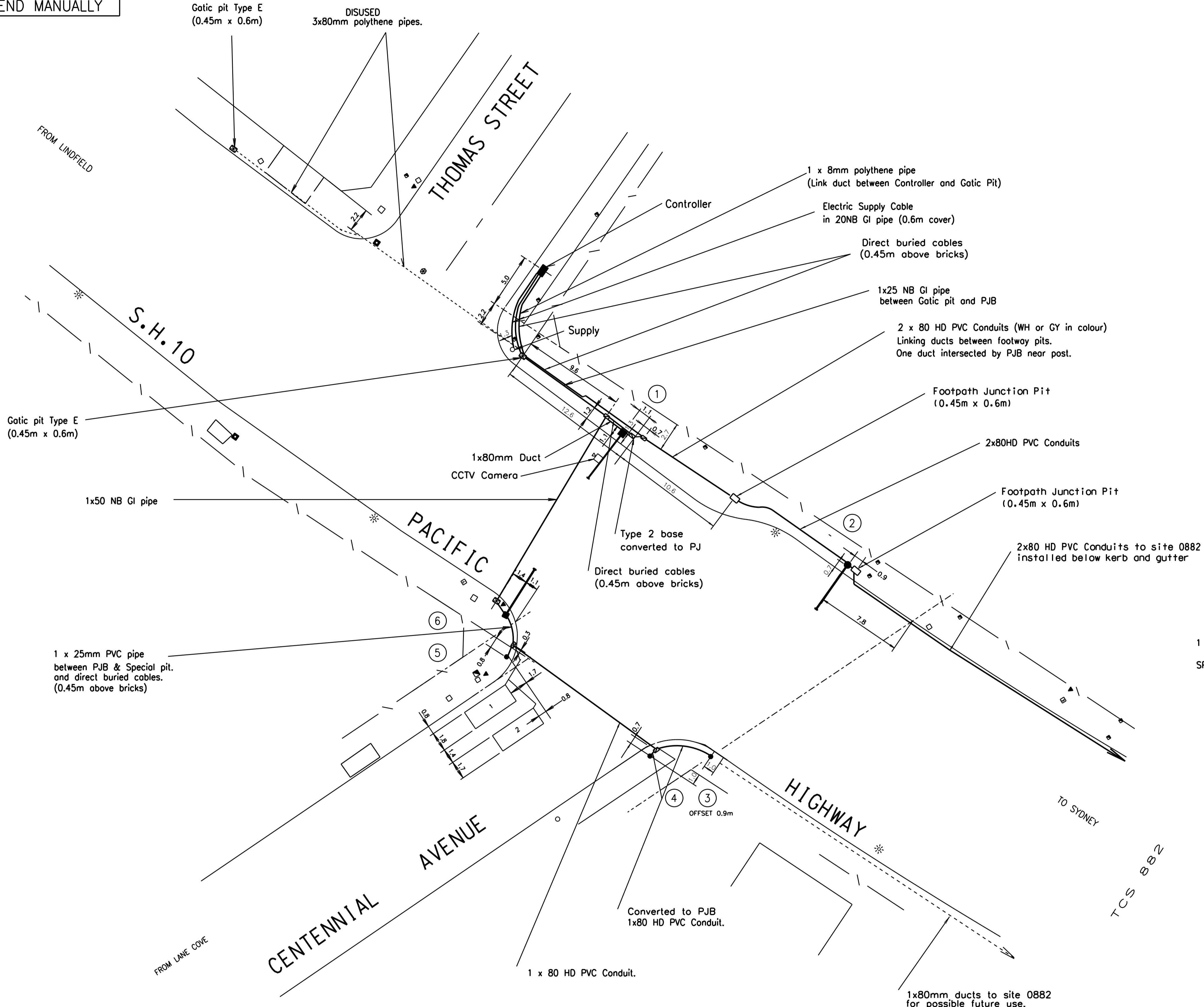
| APPROVED |
|---|
| <i>[Signature]</i> ELECTRICAL DESIGN MANAGER |
| DATE 24/11/95 |

ROADS AND MARITIME SERVICES
CITY OF WILLOUGHBY
S.H.10 PACIFIC HIGHWAY,
ALBERT AVENUE AND
OLIVER ROAD
CABLE INSTALLATION CHATSWOOD

| EXISTING <input checked="" type="checkbox"/> | PROPOSED <input type="checkbox"/> |
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| CADD FILE: VV0882_11D_INS.dgn | |
| SCALE 5 0 (1:200) 5 10 | ISSUE D |
| FILE SF2014/010225 | SUPERSEDES SHEET/ISSUE 10/B |
| REG No. DS2014/001274 | TCS No. 0882 |
| | SHEET 11 |

DRAWN USING CAD
DO NOT AMEND MANUALLY

W0892



CABLE INSTALLATION

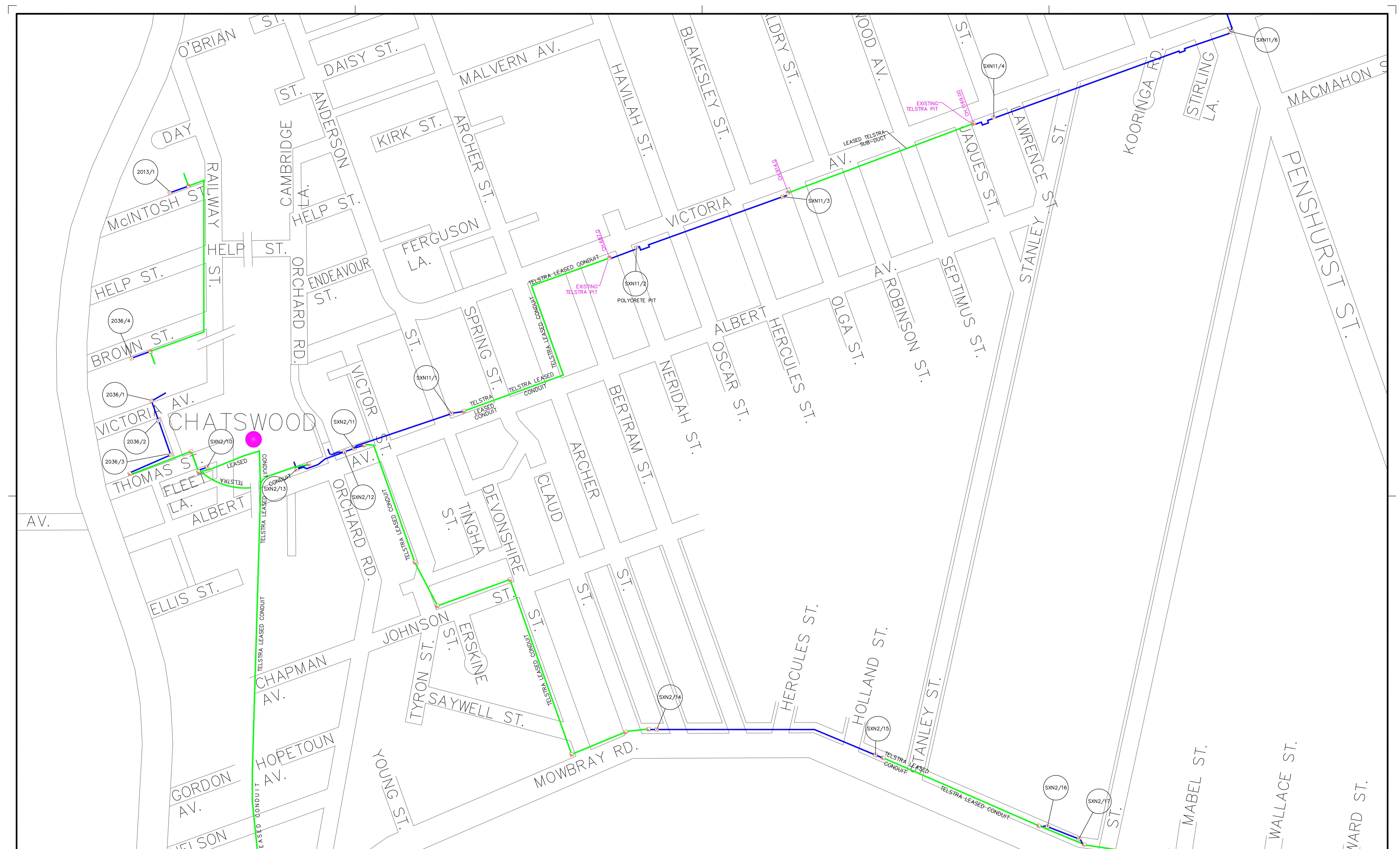
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|------------------|-------------------------------|-----------------------------|
| A ORIGINAL ISSUE | B ISSUE - YEN 97/037 17/10/97 | PLAN AMENDED TO SUIT ME |
| | R.W.A. C.L. 2 | |
| | C ISSUE - SS/539 27/04/2004 | POST 1 TYPE 9 WAS TYPE 2 |
| | A.C. 16/03/05 | D ISSUE - SS/541 17/01/2011 |



| REFERENCE PLANS | |
|------------------------|---------------------------|
| U.B.O.REF. MAP 195 H11 | APPROVED <i>R.C. Bird</i> |
| I.S.G. E 316433 | R.C. BIRD |
| CO-ORDS N 1258679 | ELECTRICAL DESIGN MANAGER |
| Specification | DESIGNED |
| Det. Sched. Exp. | DATE 22/11/95 |
| SSG Dis. Seq. | PASSED |
| DESIGN LAYOUT | RECOMMENDED |
| CABLE CHART | RECOMMENDED |
| SHEET 9 | |
| SHEET 12 | |

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|---------------------------|------------------------------------|
| APPROVED <i>R.C. Bird</i> | ROADS AND TRAFFIC AUTHORITY OF NSW |
| R.C. BIRD | CITY OF WILLOUGHBY |
| ELECTRICAL DESIGN MANAGER | S.H.10 PACIFIC HIGHWAY |
| DATE 22/11/95 | AND |
| ACCEPTED | CENTENNIAL AVENUE |
| | CHATSWOOD |

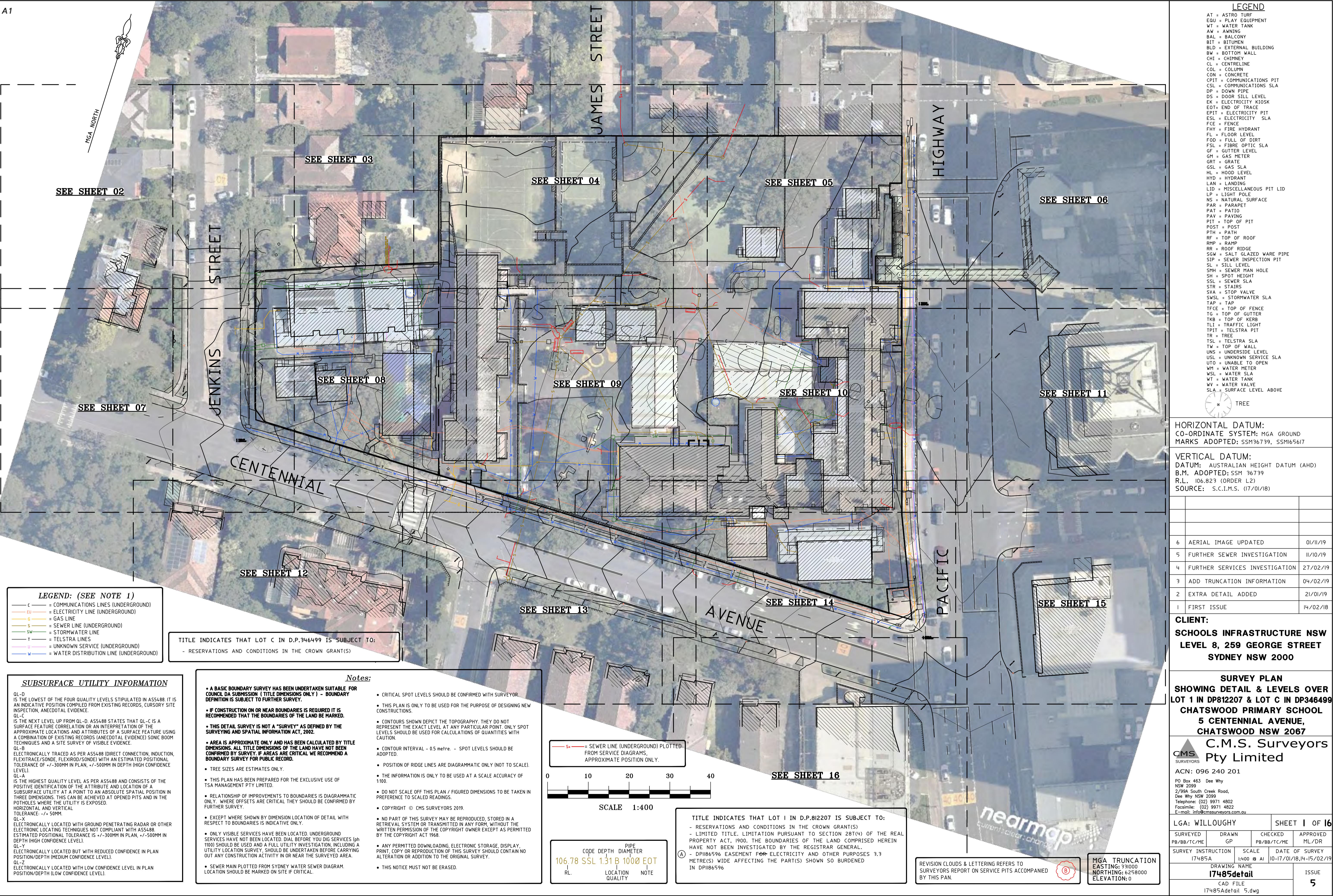
| | | | |
|-----------------------------------|----------------------|--|----------|
| DRAWING FILE : W0892_11D_INS.DGN. | ARCHIVE LOCATION : | DESIGN OFFICE PARRAMATTA-SYDNEY TECHNICAL SERVICES | SHEET 11 |
| SCALE 5 0 5 10 | ISSUE | | |
| FILE 490 TS 292 | SUPERSEDES SHEET 11A | X 8 0 0 0 | |
| REGN. 0010.490.W.0892 | | | |


LEGEND

- VERIZON DUCT
- VERIZON DUCT
- TELSTRA DUCT
- VERIZON PIT
- TELSTRA PIT

| | | | | | |
|---|---------|----------------------|--------|---------|----------|
| C1 | 20/5/13 | DESCRIPTION | DRAWN | CHECKED | APPROVED |
| Do not scale this drawing. Information on this document is proprietary & shall not be used, copied, reproduced or disclosed in whole or in part without written consent of Verizon. | | | | | |
| PROJECT | Verizon | SOUTHERN CROSS NORTH | | | |
| SHEET 16 OF 23 | | | | | |
| DRAWING NUMBER | VZ | | SCALE | SIZE | |
| | | | N.T.S. | A1 | |

MWARD ST.
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PENSURST ST.
MACMAHON LA.
STIRLING LA.
KOORNGA RD.
AWRENCE ST.
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MGA NORTH
NORTH

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100

ADJOINS SHEET 5

Sx = SEWER LINE (UNDERGROUND) PLOTTED
FROM SERVICE DIAGRAMS,
APPROXIMATE POSITION ONLY.

LEGEND: (SEE NOTE 1)

- C = COMMUNICATIONS LINES (UNDERGROUND)
- EU = ELECTRICITY LINE (UNDERGROUND)
- G = GAS LINE
- S = SEWER LINE (UNDERGROUND)
- SW = STORMWATER LINE
- T = TELSTRA LINES
- U = UNKNOWN SERVICE (UNDERGROUND)
- W = WATER DISTRIBUTION LINE (UNDERGROUND)

NOTES

• THE PURPOSE OF THIS PLAN IS FOR DESIGN ONLY. CURRENT PLANS ISSUED BY SERVICE PROVIDERS THROUGH "DIAL BEFORE YOU DIG" ARE STILL REQUIRED. CONTRACTORS AND SUBCONTRACTORS WILL NEED TO EXERCISE THEIR OWN DUE CARE AND SHOULD MAKE THEIR OWN ENQUIRY BEFORE DIGGING. DOWN CONDUITS AND TRENCHES THAT YOU DIG ARE CURRENT AS THEY HAVE VARYING EXPIRATION DATES, AND MAY REQUIRE RE-ISSUE OTHERWISE THE INFORMATION ON THIS PLAN MAY NO LONGER BE CURRENT.

• WARNING: UNKNOWN SERVICES MAY EXIST THAT COULD NOT BE ELECTRONICALLY DETECTED. THE DIAGRAMS OF THE SERVICE PROVIDER MAY NOT DEPICT ALL ASSETS WITHIN THEIR NETWORK AND SERVICE PROVIDERS MAY SHARE CONDUITS AND / OR TRENCHES AT THIS LOCATION.

• WARNING: SINGLE MARKED LINES MAY REPRESENT MULTIPLE CONDUITS, PIPES END / OR CABLES AT THIS LOCATION. THE RECORDING OF DEPTHS AND POSITION OF UTILITIES CANNOT BE GUARANTEED AS CORRECT. WE RECOMMEND NON DESTRUCTIVE DIGGING / POTHOLING TO EXPOSE SERVICES FOR ACCURATE IDENTIFICATION AND DEPTH.

CAUTION: SURVEYOR HAVE SURVEYED WITHIN THE BOUNDARY OF THE SITE AND DURING HAVE SURVEYED THE ROAD RESERVE SURROUNDING THE SITE AND NOT EXPOSED SERVICES. THESE SERVICES ARE NOT LOCATED. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURVEYOR. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DATA. THE SURVEYOR MAKE NO CLAIMS ON THE ACCURACY OF THE DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDER DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING / POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN. ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT, THE RISK REMAINS WITH THE CLIENT AND / OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

| Point Table | | |
|-------------|---------------------|--|
| Pt. No. | Spread, Dia, Height | |
| I50 | TR 8-3X0.3-8 | |
| I51 | TR 4-0.2-5 | |
| I52 | TR 8-3X0.25-7 | |
| I53 | TR 6-0.3-9 | |
| I97 | TR 8-0.55-15 | |
| I98 | TR 8-0.3-7 | |
| I99 | TR 6-0.3-11 | |
| 200 | TR 6-0.2-5 | |
| 201 | TR 10-0.4-12 | |
| 202 | TR 12-0.5-16 | |
| 203 | TR 4-0.2-7 | |
| 204 | TR 4-0.2-7 | |
| 205 | TR 4-0.2-7 | |
| 206 | TR 4-0.2-7 | |
| 207 | TR 4-0.2-7 | |
| 246 | TR 6-4X0.15-5 | |
| 370 | TR 8-0.4-6 | |
| 372 | TR 8-0.4-6 | |
| 374 | TR 12-0.5-9 | |
| 375 | TR 4-2X0.15-5 | |
| 5555 | TR 8-0.4-10 | |
| 5556 | TR 5-0.3-8 | |
| 5557 | TR 5-0.3-8 | |
| 5558 | TR 14-0.6-12 | |
| 5593 | TR 5-0.2-6 | |

| Point Table | | |
|-------------|---------------------|--|
| Pt. No. | Spread, Dia, Height | |
| 376 | TR 8-0.2-4 | |
| 491 | TR 8-0.4-10 | |
| 502 | TR 8-0.4-14 | |
| 503 | TR 8-0.4-14 | |
| 723 | TR 8-0.25-9 | |
| 784 | TR 6-0.3-10 | |
| 785 | TR 6-0.3-10 | |
| 786 | TR 4-0.15-7 | |
| 787 | TR 4-0.2-9 | |
| 788 | TR 6-0.25-9 | |
| 789 | TR 6-0.25-9 | |
| 790 | TR 4-0.2-7 | |
| 791 | TR 10-0.4-12 | |
| 792 | TR 10-0.4-12 | |
| 793 | TR 10-0.4-12 | |
| 5841 | TR 8-0.5-15 | |
| 5842 | TR 8-3X0.2-6 | |
| 5872 | TR 8-0.6-18 | |
| 5873 | TR 8-0.6-18 | |
| 5874 | TR 4-0.2-6 | |
| 5875 | TR 8-0.4-14 | |
| 5876 | TR 8-0.6-18 | |

| Point Table | | |
|-------------|---------------------|--|
| Pt. No. | Spread, Dia, Height | |
| 5594 | TR 8-0.6-12 | |
| 5595 | TR 6-0.3-5 | |
| 5646 | TR 8-0.25-8 | |
| 5647 | TR 8-M-6 | |
| 5648 | TR 8-0.2-10 | |
| 5666 | TR 6-0.3-5 | |
| 5727 | TR 6-0.3-5 | |
| 5728 | TR 6-2X0.2-5 | |
| 5729 | TR 6-0.4-7 | |
| 5837 | TR 8-0.5-16 | |
| 5838 | TR 10-0.7-16 | |
| 5839 | TR 8-0.4-12 | |
| 5840 | TR 8-0.6-16 | |
| 5841 | TR 8-0.5-15 | |
| 5842 | TR 8-3X0.2-6 | |
| 5872 | TR 8-0.6-18 | |
| 5873 | TR 8-0.6-18 | |
| 5874 | TR 4-0.2-6 | |
| 5875 | TR 8-0.4-14 | |
| 5876 | TR 8-0.6-18 | |

| Point Table | | |
|-------------|---------------------|--|
| Pt. No. | Spread, Dia, Height | |
| 5877 | TR 6-0.4-14 | |
| 5878 | TR 10-0.5-18 | |
| 5879 | TR 10-0.5-18 | |
| 5880 | TR 10-0.5-18 | |
| 5881 | TR 10-0.5-18 | |
| 5882 | TR 8-0.3-7 | |
| 5921 | TR 12-2X0.3-8 | |
| 5936 | TR 18-0.9-20 | |
| 5969 | TR 6-0.3-10 | |
| 5970 | TR 4-0.25-8 | |
| 5985 | TR 4-2X0.2-6 | |
| 6014 | TR 4-0.2-7 | |
| 6015 | TR 6-0.3-10 | |
| 6016 | TR 12-0.6-12 | |
| 6017 | TR 10-2X0.3-12 | |
| 6018 | TR 9-0.2-7 | |
| 6019 | TR 6-0.2-5 | |
| 6020 | TR 8-0.3-8 | |

LEGEND

| | |
|------|-------------------------|
| AT | = ASTRO TURF |
| EQU | = PLAY EQUIPMENT |
| WT | = WATER TANK |
| AW | = AWNING |
| BAL | = BALCONY |
| BIT | = BITUMEN |
| BLD | = EXTERNAL BUILDING |
| BW | = BOTTOM WALL |
| CHI | = CHIMNEY |
| CL | = CENTRELINE |
| CON | = CONCRETE |
| CPIT | = COMMUNICATIONS PIT |
| CSL | = COMMUNICATIONS SLA |
| DP | = DOWN PIPE |
| DS | = DOOR LEVEL |
| EK | = ELECTRICITY KIOSK |
| EPI | = ELECTRICITY SOURCE |
| ESI | = ELECTRICITY PIT |
| FCE | = FENCE |
| FHY | = FIRE HYDRANT |
| FL | = FLOOR LEVEL |
| FOD | = FOUNDATION DIRT |
| FSL | = FIBRE OPTIC SLA |
| GF | = GUTTER LEVEL |
| GM | = GAS METER |
| GRT | = GRATE |
| GSL | = GAS SLA |
| HL | = HOLLOW SLA |
| HYP | = HYDRAULIC |
| LAN | = LANDING |
| LID | = MISCELLANEOUS PIT LID |
| LP | = LIGHT POLE |
| NS | = NATURAL SURFACE |
| PAR | = PARAPET |
| PAV | = PATH |
| PAV | = PAVING |
| PIT | = TOP OF PIT |
| POST | = POST |
| PTH | = PATH |
| RF | = TOP OF ROOF |
| RHM | = RAFTER |
| RR | = ROOF RIDGE |
| SGW | = SALT GLAZED WARE PIPE |
| SIP | = SEWER INSPECTION PIT |
| SL | = SILL LEVEL |
| SMH | = SEWER MAN HOLE |
| SH | = SHOT BLAST |
| SS | = SEWER SLA |
| STR | = STAIRS |
| SVA | = STOP VALVE |
| SWSL | = STORMWATER SLA |
| TAP | = TAP |
| TC | = TOP OF FENCE |
| TG | = TOP OF GUTTER |
| TKB | = TOP OF KERB |
| TLL | = TRAFFIC LIGHT |
| TPIT | = TELSTRA PIT |
| TR | = TREE |
| TSL | = TELSTRA SLA |
| TM | = TOP OF MALL |
| UNL | = UNSIDED LEVEL |
| USL | = UNKNOWN SERVICE SLA |
| UTO | = UNABLE TO OPEN |
| WM | = WATER METER |
| WSL | = WATER SLA |
| WT | = WATER TANK |
| WV | = WATER VALVE |
| SLA | = SURFACE LEVEL ABOVE |

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L.: 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

ADJOINS SHEET 3

6 AERIAL IMAGE UPDATED 01/II/19
5 FURTHER SEWER INVESTIGATION II/10/19
4 FURTHER SERVICES INVESTIGATION 27/02/19
3 ADD TRUNCATION INFORMATION 04/02/19
2 EXTRA DETAIL ADDED 21/01/19
1 FIRST ISSUE 14/02/18

CLIENT:
SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

SURVEY PLAN
SHOWING DETAIL & LEVELS OVER
LOT 1 IN DP812207 & LOT C IN DP346499
CHATSWOOD PRIMARY SCHOOL
5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

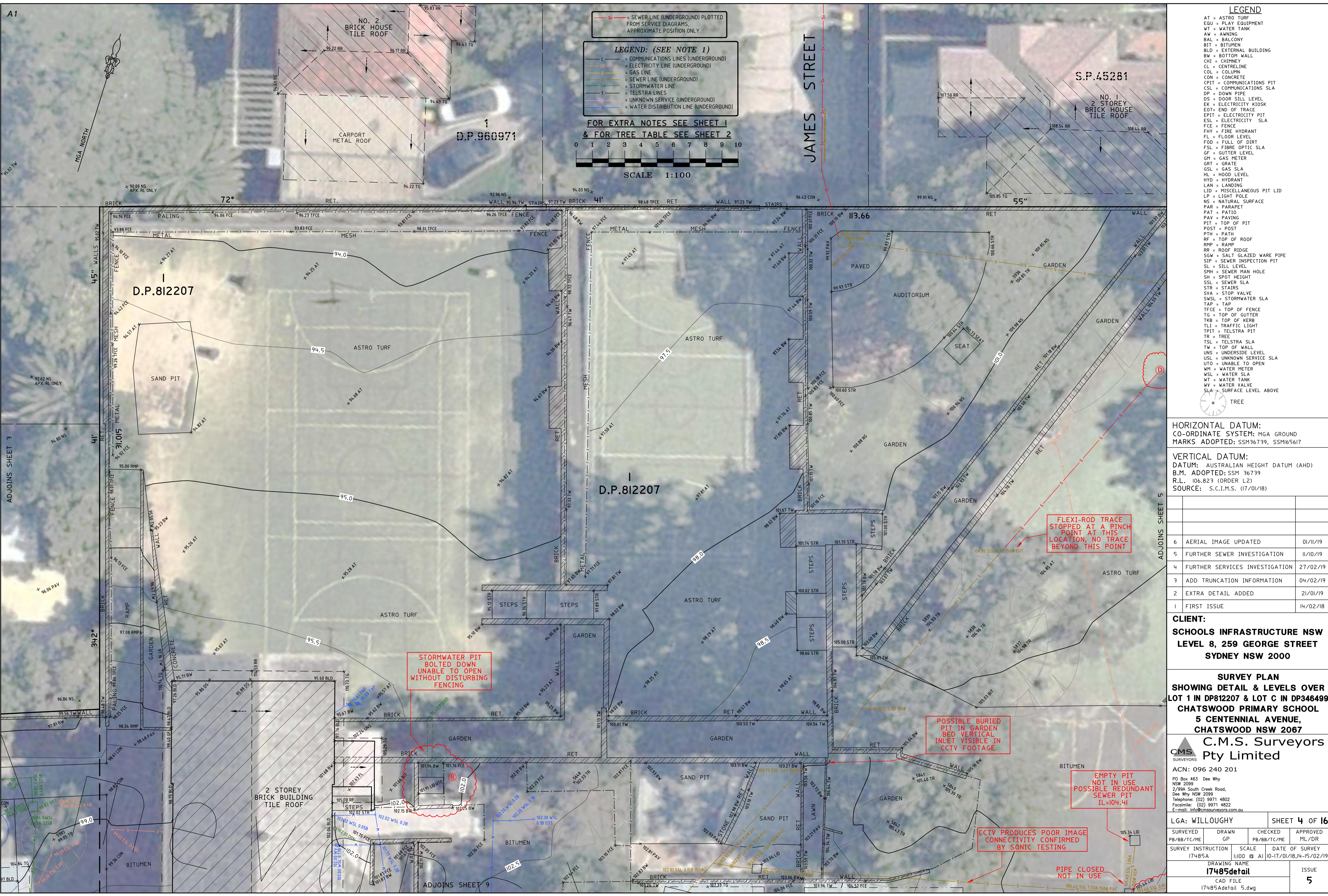
C.M.S. Surveyors Pty Limited

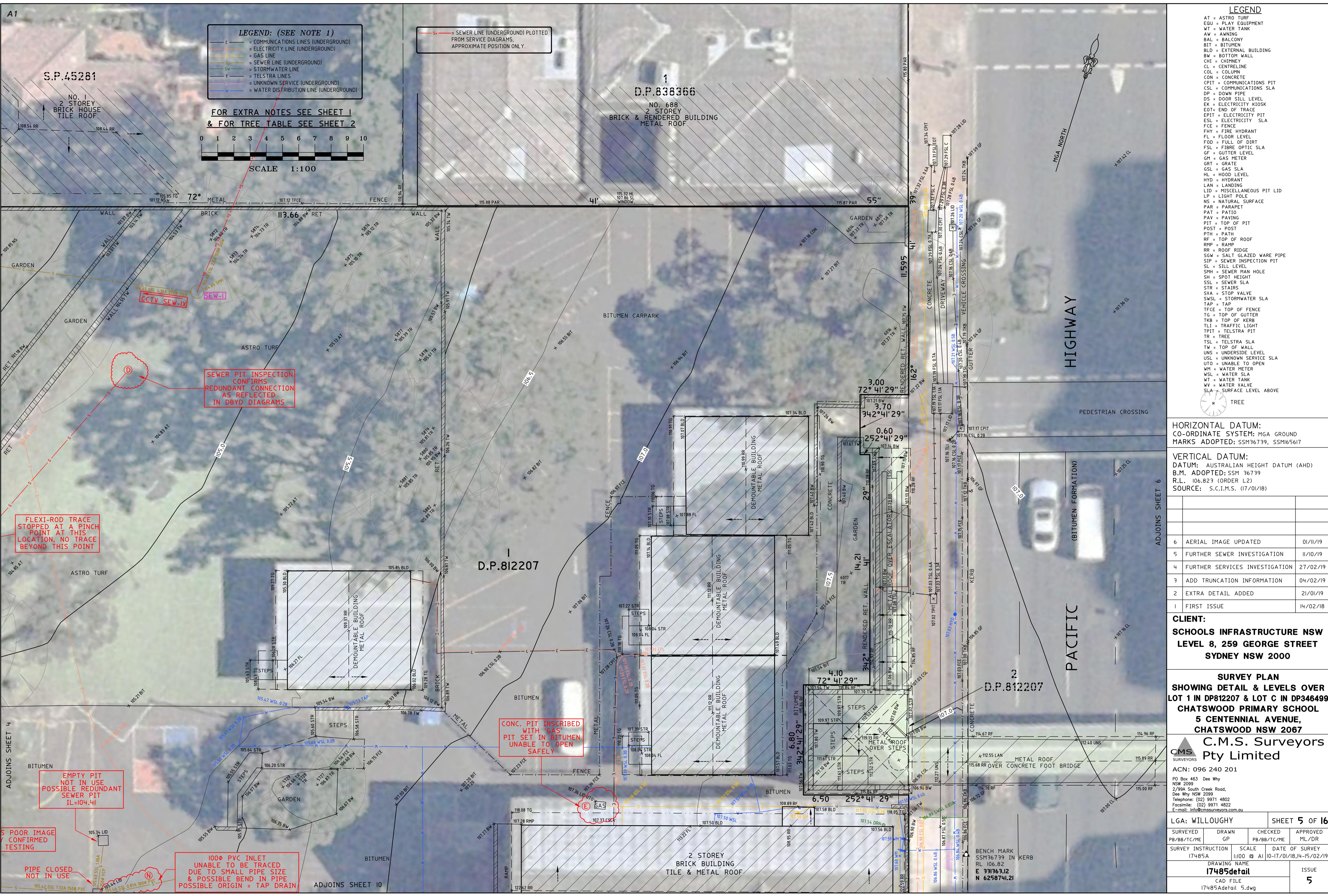
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/2 South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

| | | | |
|--------------------|---------------|--------------------------|----------|
| LGA: WILLOUGHBY | SHEET 2 OF 16 | | |
| SURVEYED | DRAWN | CHECKED | APPROVED |
| 17485A | GP | PB/B8/TC/ME | ML/DR |
| SURVEY INSTRUCTION | SCALE | DATE OF SURVEY | |
| 17485A | 1:100 @ A1 | 10-17/01/18, 14-15/02/19 | |
| DRAWING NAME | | ISSUE | |
| 17485detail | | 5 | |
| CAD FILE | | 17485Detail.5.dwg | |



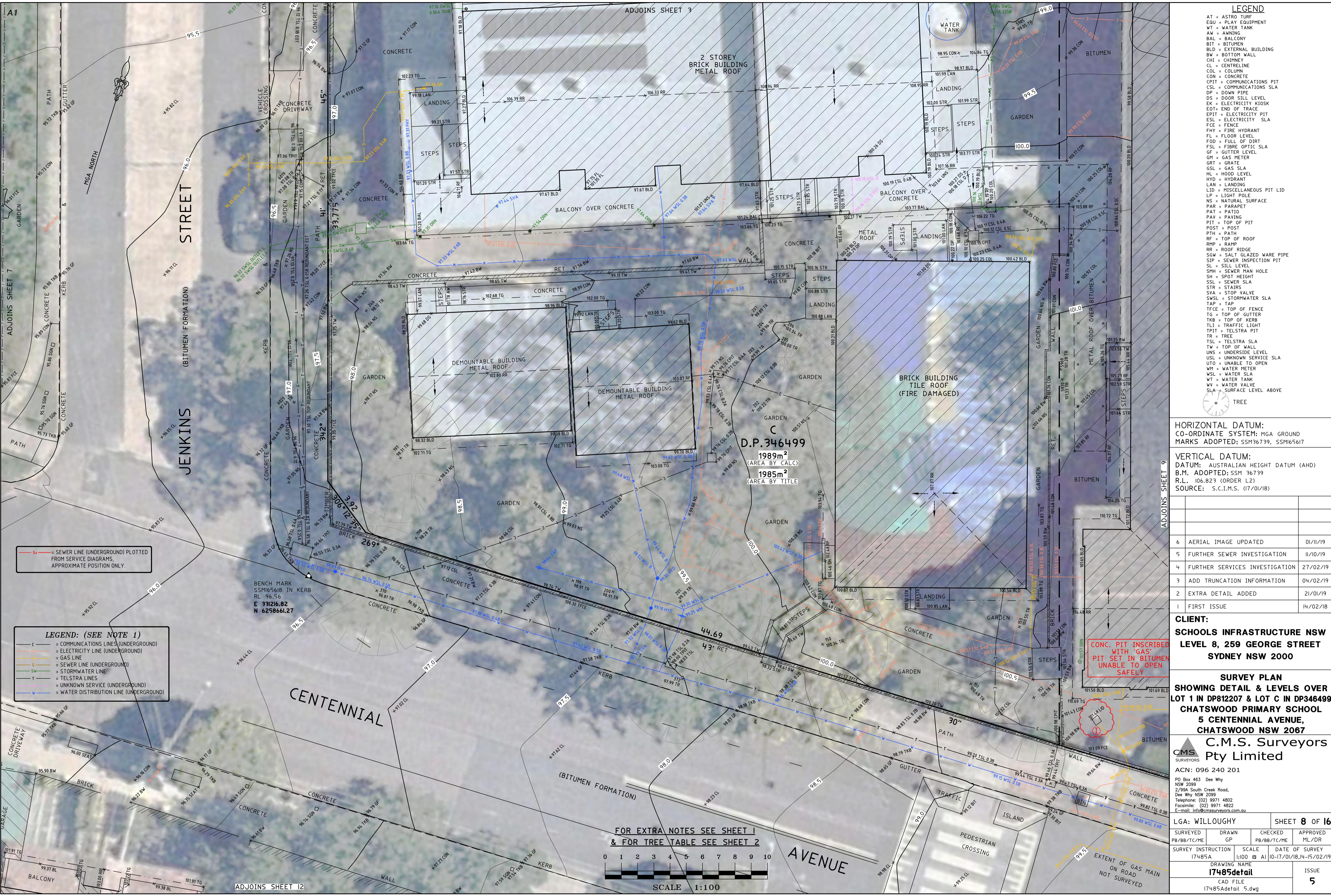














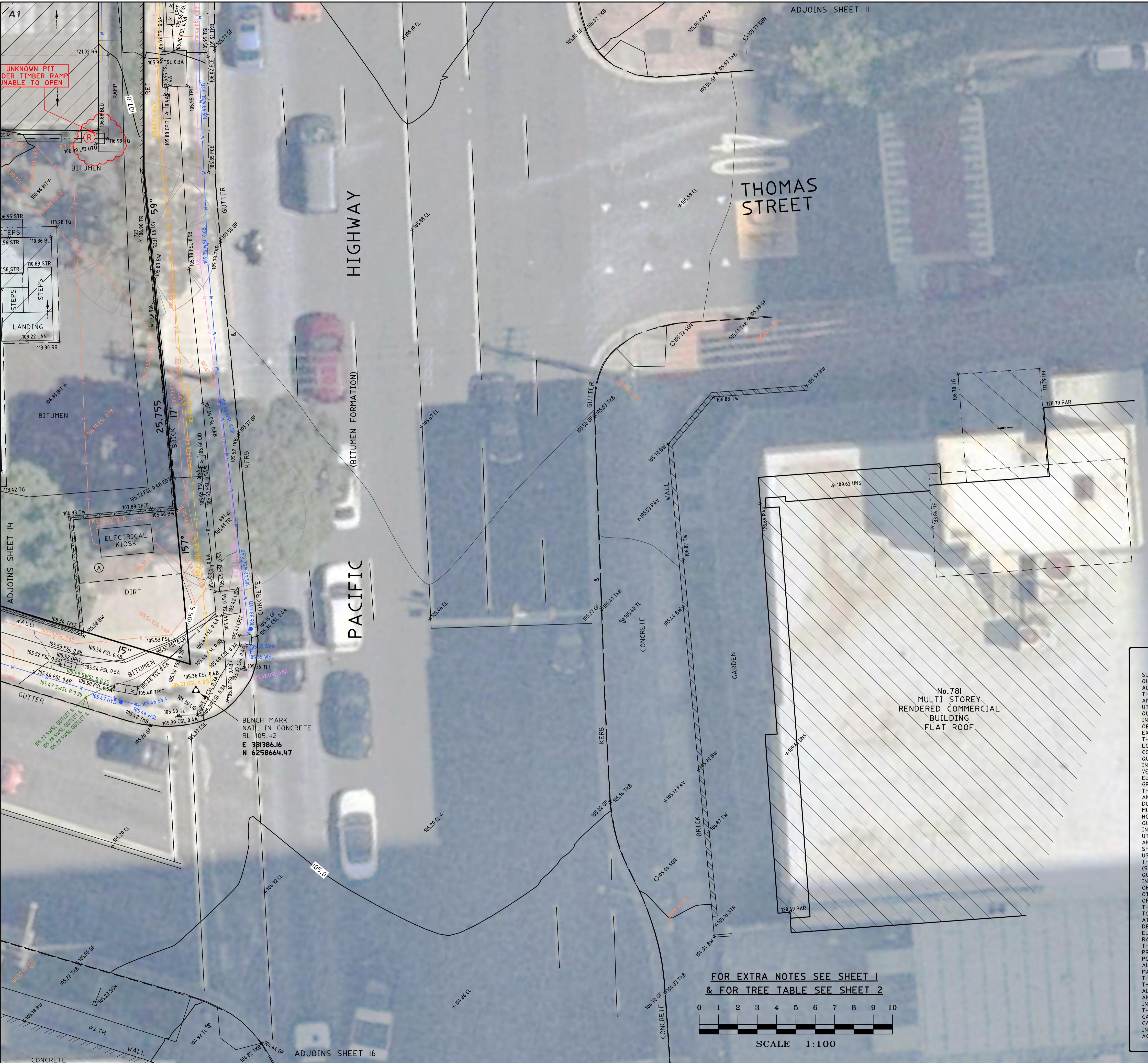












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- SL = SILL LEVEL
- SMH = SEWER MAN HOLE
- SH = SHALLOW
- SSM = SEWER SLA
- STR = STAIRS
- SVA = STOP VALVE
- SWSL = STORMWATER SLA
- TAP = TAP
- TFCE = TOP OF FENCE
- TG = TOP OF GUTTER
- TKB = TOP OF KERB
- TL = TRAFFIC LIGHT
- TPIT = TELSTRA PIT
- TR = TREE
- TSL = TELSTRA SLA
- TM = TOP OF MALL
- UN = UNDERSIDE LEVEL
- USL = UNKNOWN SERVICE SLA
- UTO = UNABLE TO OPEN
- WM = WATER METER
- WSL = WATER SLA
- WT = WATER TANK
- WV = WATER VALVE
- SLA = SURFACE LEVEL ABOVE

* TREE

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L.: 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

6 AERIAL IMAGE UPDATED 01/11/19

5 FURTHER SEWER INVESTIGATION 11/10/19

4 FURTHER SERVICES INVESTIGATION 27/02/19

3 ADD TRUNCATION INFORMATION 04/02/19

2 EXTRA DETAIL ADDED 21/01/19

1 FIRST ISSUE 14/02/18

CLIENT:
SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

SURVEY PLAN
SHOWING DETAIL & LEVELS OVER
LOT 1 IN DP812207 & LOT C IN DP346499
CHATSWOOD PRIMARY SCHOOL
5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why
NSW 2099
2/20 South Creek Road,
Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

LGA: WILLOUGHBY **sheet 15 of 16**

SURVEYED **DRAWN** **CHECKED** **APPROVED**
PB/BB/TC/ME GP PB/BB/TC/ME ML/DR

SURVEY INSTRUCTION **SCALE** **DATE OF SURVEY**
17485A 1:100 @ A1 10-17/01/18, 14-15/02/19

DRAWING NAME **ISSUE**
17485detail 5

CAD FILE 17485Detail.5.dwg

