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ARBORICULTURE
PLANT PATHOLOGY

ARBORICULTURAL IMPACT ASSESSMENT

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TREE PROTECTION SPECIFICATION

REF: L&Co24013 | 25 March 2025 | v2.3
SITE ADDRESS | Dalmeny Public School, 1612 Dalmeny Dr, Prestons NSW
PREPARED FOR | Department of Education (DoE)
PREPARED BY |

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1.0 EXECUTIVE SUMMARY |

1.1 This Arboricultural Impact Assessment and Tree Protection Specification Report has been prepared to accompany a Review of Environmental Factors (REF) prepared for the Department of Education (DoE) relating to upgrades to Dalmeny Public School (the activity) under Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act) and State Environmental Planning Policy (Transport and Infrastructure) 2021 (SEPP TI).

1.2 The proposed activity for upgrades to Dalmeny Public School includes the demolition of existing demountables and construction of a classroom building, covered walkway, landscaping and upgrades to electrical and hydraulics booster and pump.

1.3 A total of forty-two (42) trees were assessed that were a mix of Australian native and exotic species. All trees located on adjacent properties and were assigned Retention Values of *Priority for Retention*.

1.4 In total, ten (10) trees will need to be removed to accommodate the proposed activities. Details on impacts as follows.

1.5 The supplied plans show no works are proposed within the TPZs of Trees 1, 2, 3, 4, 21, 22, 42, 47, 56, 58, 59, 61,65, 66 68, 69, 70, 77 & 137. However, the tree protection measures outlined in this report should be implemented to avoid indirect impacts.

1.6 The proposed works represent a *Minor Encroachment* (as defined by AS4970) on Trees 40, 60, 72, 76, 78 & 138. However, a minor encroachment is considered acceptable by the standard when it is compensated for elsewhere and contiguous within the TPZ, as in the current cases. Further, the tree protection measures outlined in this report will reduce the likelihood of negative impacts on Trees 40, 60, 72, 76, 78 & 138.

1.7 The proposed landscaping works are within the SRZs of Trees 5, 6 & 7 and represent a *Major Encroachment* (as defined by AS4970). However, the proposed encroachment can be installed at or above the existing grade and negative impacts can be avoided if the tree sensitive construction methods and protection measures outlined in this report are implemented. The trees can be retained, and the works are considered

1.8 acceptable under the Australian Standard AS4970, Clause 3.3.4.

1.9 The proposed electrical trenching is within the TPZ/SRZs of Trees 50, 51, 52, 53, 54, 55, 57 and 104 and represents a *Major Encroachment* (as defined by AS4970). These trees will need to be removed as the TPZ encroachment is too large for their long-term viability, based on a consideration of their health, structure and the size of the encroachment. These trees were all assigned Low Landscape Significance Values except for Trees 55, 57 and 104 that were assigned Moderate Landscape Significance Values.

1.10 The proposed hydraulic upgrades are within the TPZ/SRZ of Tree 103 represents a *Major Encroachment* (as defined by AS4970). Tree 103 will need to be removed as the TPZ encroachment is too large for the long-term viability, based on a consideration of the health, structure and the size of the encroachment. Tree 103 was assigned a High Landscape Significance Value.

1.11 Tree 23 is within the footprint of the proposed building footprint and will need to be removed. Tree 23 was assigned a Low Significance Value and exempt from the Councils Tree Management.

1.12 No Construction Management Plan (CMP) was provided and the impact from site access could not be assessed. The impacts from the CMP must be reviewed by the Project Arborist prior to the issue of the Construction Certificate to minimise indirect impacts on the tree population.

2.0 INTRODUCTION |

2.1 Background

2.2 This Arboricultural Impact Assessment and Tree Protection Specification Report has been prepared to accompany a Review of Environmental Factors (REF) prepared for the Department of Education (DoE) relating to upgrades to Dalmeny Public School (the activity) under Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act) and State Environmental Planning Policy (Transport and Infrastructure) 2021 (SEPP TI). This report has determined the impact of the proposed works on the trees at 1612 Dalmeny Dr, Prestons NSW and neighbouring properties and where appropriate, has provided tree sensitive construction methods to minimise negative impacts to the trees.

2.2.1 In preparing this report, the author is aware of and has considered the objectives of the Liverpool City Council's - *Liverpool Development Control Plan Part 2: Tree Preservation (2008), Liverpool Local Environment Plan (2008); Liverpool City Council Tree Management Policy (2016) , Australian Standard 4970 Protection of Trees on Development Sites (2009), Australian Standard 4373 Pruning of Amenity Trees (2007) and Safe Work Australia Guide for Managing Risks of Tree Trimming and Removal Work (2016).*

2.2.2 Further methodology used in the preparation of this report is detailed in Appendix 1.

2.2.3 This Arboricultural Impact Assessment was based on an assessment of the following supplied documentation/plans only (Appendix 4):

- Drawing number A4045-1-C Survey Prepared by Astrea. Dated 17.10.2024
- Bulk Earthworks Plan Prepared by Meinhardt Dated 10.01.2025
- Proposed Site Plan Prepared by Fulton Trotter Architects. Dated 24.02.2025
- Civil Siteworks Plan Prepared by Meinhardt Dated 10.01.2025
- Hydraulic Services, Proposed Site Plan Prepared by Acor Dated 18.12.2024
- Electrical Services Site Plan Prepared by NDY Dated 14.02.2025
- Landscape Plan Prepared by Ground Ink Dated 17.02.2025
- Proposed Ground Floor Plan Prepared by Fulton Trotter Architects . Dated 24.02.2025.
- Proposed Siteworks Plan Prepared by Fulton Trotter Architects. Dated 24.02.2025.

2.3 The Proposal

2.3.1 The proposed activity for upgrades to Dalmeny Public School includes the demolition of existing demountables and construction of a classroom building, covered walkway, landscaping and upgrades to electrical and hydraulics booster and pump.

3.0 RESULTS |

3.1 The Site

3.1.1 The site is a rectangular block with a mix of built structures, landscaped areas, and sporting fields.

3.1.2 The site is bounded by Dalmeny Drive to the north, and residential areas to the south, east and west.

3.2 The Trees

3.2.1 A Visual Tree Assessment (VTA) (Mattheck & Breloer, 2003) has been undertaken on trees growing within the site to determine their health and structural condition (Appendix 2). A full VTA of trees located outside of the site boundaries was not undertaken due to limited access. The species and trunk diameter were recorded for the purposes of determining Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) calculations only. The distance of each tree from the site boundary is an approximation due to limited access.

3.2.2 The Australian Standard 4970: *Protection of Trees on Development Sites* (2009) Clause 2.3.2, requires the allocation of a Tree Retention Value. This value is based on the Useful Life Expectancy (ULE) and Landscape Significance, which considers the tree's health, structural condition and site suitability. The Retention Value does not consider any proposed development works and is not a schedule for tree retention or removal. The trees have been allocated one of the following Retention Values:

- Priority for Retention
- Consider for Retention
- Consider for Removal
- Priority for Removal

3.2.3 The Australian Standard 4970: *Protection of Trees on Development Sites* (2009) also requires the calculation of the Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) for each tree (Appendix 1).

3.2.4 A total of forty-two (42) trees and group trees were assessed which were a mix of Australian native and exotic species.

3.2.5 A search of the BioNet Atlas of NSW Wildlife Database was undertaken in March 2025. No individual threatened tree species that were listed within this database for the area were identified during the current field investigations of the site. The ecological significance and habitat value of the trees has not been assessed and is beyond the scope of this report.

3.2.6 Trees 1, 2, 3, 4, 5, 6, 7, 20, 21, 22, 40, 41, 42, 47, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 65, 66, 68, 69, 70, 71, 72, 76, 77, 78, 102, 103, 137 & 138 were within the site boundary and covered by the council's tree management controls.

3.3 Trees 23 is exempt from the council's tree management controls.

4.0 ARBORICULTURAL IMPACT ASSESSMENT |

4.1 **Trees 1, 2, 3, 4, 21, 22, 42, 47, 56, 58, 59, 61, 65, 66, 68, 69, 70, 77 and 137**

4.1.1 Trees 1, 2, 3, 4, 21, 22, 42, 47, 56, 58, 59, 61, 65, 66, 68, 69, 70, 77 and 137 are not directly impacted by the proposed activities. Refer to Appendix 2 for species identifications and further details.

4.1.2 The following TPZ protection must be installed to avoid indirect impacts.

4.1.3 TPZ fencing should be installed prior to any site works (including demolition) and remain in place for the duration of the demolition and construction processes.

4.1.4 The area within the TPZ fencing should be mulched to a depth of 50mm with a non-toxic product (i.e. woodchips) with no fines.

4.1.5 Coir logs should be installed on the perimeter of the TPZ fencing to prevent runoff from the building works into the TPZ.

4.1.6 Materials, waste storage and temporary services should not be located within the TPZ fenced area. If works are required within the TPZ fenced area, then they should be supervised by the Project Arborist.

4.1.7 The tree protection measures must be inspected by the Project Arborist prior to the start prior of site works, including demolition.

4.1.8 Refer to AS4970 and Appendices 4, 5, 6, 7, 8 & 9 for further details for further details.

4.2 **Trees 40, 60, 72, 76, 78 & 138**

4.2.1 Trees 40, 60, 72, 76, 78 & 138 were assigned Moderate to High Landscape significance values. Refer to Appendix 2 for species identifications and further details.

4.2.2 The proposed electrical trenching is within the TPZ of Trees 40, 60 & 138. The proposed TPZ encroachment is approximately 5.7%, 5.5% and 0.6% for trees 40, 60 & 138, respectively, which represents a *Minor Encroachment*.

4.2.3 The proposed landscaping, hydraulic & electrical trenching is within the TPZ of Trees 72, 76 & 78. The proposed TPZ encroachment is approximately 8.8%, 6.5% and 9.2% for trees 72, 76 & 78, respectively, which represents a *Minor Encroachment*.

4.2.4 A *Minor Encroachment* as defined by AS4970 is considered acceptable by the standard when it is compensated for elsewhere and contiguous within the TPZ, as in the current cases and Trees 40, 60, 72, 76, 78 & 138 can be retained if the following tree sensitive construction methods and protection measures are carefully implemented under the supervision of the Project Arborist.

4.2.5 TPZ fencing should be installed prior to any site works (including demolition) and remain in place for the duration of the demolition and construction processes.

4.2.6 The area within the TPZ fencing should be mulched to a depth of 50mm with a non-toxic product (i.e. woodchips) with no fines.

4.2.7 Coir logs should be installed on the perimeter of the TPZ fencing to prevent runoff from the building works into the TPZ.

4.2.8 Materials, waste storage and temporary services should not be located within the TPZ fenced area. If works are required within the TPZ fenced area, then they should be supervised by the Project Arborist.

4.2.9 The tree protection measures must be inspected by the Project Arborist prior to the start prior of site works, including demolition.

4.2.10 Refer to AS4970 and Appendices 4, 5, 6, 7, 8 & 9 for further details for further details.

4.3 **Trees 5, 6 & 7**

4.3.1 Trees 5, 6 & 7 were assigned Low and High Landscape Significance values. Refer to Appendix 2 for species identifications and further details.

4.3.2 The proposed landscaping turf works are within the SRZs of Trees 5, 6 & 7 and represent a *Major Encroachment* (as defined by AS4970). However, the proposed encroachment can be installed at or above the existing grade and negative impacts can be avoided if the tree sensitive construction methods and protection measures outlined in this report are implemented. The trees can be retained, and the works are considered acceptable under the Australian Standard AS4970, Clause 3.3.4.

4.3.3 Given the good physiological condition of the trees and the type of above grade encroachment, the proposed landscaping works can be accommodated. However, given the size of encroachment the proposal represents a significant risk to the tree's long term structural and physiological viability and therefore the following tree sensitive construction methods and protection measures are carefully implemented under the supervision of the Project Arborist. Significant departures from the detailed tree sensitive construction methods and protection measures are likely to result in a shortened ULE and/or tree removal.

4.3.4 All landscaping treatments must be installed at or above grade, including sub-base materials.

4.3.5 TPZ fencing should be installed prior to any site works (including demolition) and remain in place for the duration of the demolition and construction processes.

4.3.6 The area within the TPZ fencing should be mulched to a depth of 50mm with a non-toxic product (i.e. woodchips) with no fines.

4.3.7 Coir logs should be installed on the perimeter of the TPZ fencing to prevent runoff from the building works into the TPZ.

4.3.8 Materials, waste storage and temporary services should not be located within the TPZ fenced area. If works are required within the TPZ fenced area, then they should be supervised by the Project Arborist.

4.3.9 The tree protection measures must be inspected by the Project Arborist prior to the start prior of site works, including demolition.

4.3.10 Refer to AS4970 and Appendices 4, 5, 6, 7, 8 & 9 for further details for further details.

4.4 **Trees 50, 51, 52, 53, 54, 55, 57 & 104**

4.4.1 Trees 50, 51, 52, 53, 54, 55, 57 & 104 were mostly assigned Low Landscape Significance values except for Trees 55, 57 & 104 that were assigned Moderate Landscape Significance values. Refer to Appendix 2 for species identifications and further details.

4.4.2 The proposed electrical trenching and preferred supply option is within the TPZ/SRZs of Trees 50, 51, 52, 53, 54, 55, 57 & 104 and represents a *Major Encroachment* (as defined by AS4970). Works within the SRZ represent a *Major Encroachment* as defined by AS-4970 as root severance within the SRZ can lead to the destabilisation of the trees. The overall TPZ encroachment was estimated to be *Major Encroachment* as defined by AS-4970.

4.4.3 Given the size and location of the encroachment, the long term structural and physiological viability of Trees 50, 51, 52, 53, 54, 55, 57 & 104 is highly likely to be compromised by the proposed encroachment and the tree will need to be removed to accommodate the works.

4.4.4 Refer to Appendix 4 for further detail.

4.4.5 Removal and replacement with a healthy advanced size specimen would replace the loss of amenity within a short to medium timeframe.

4.5 **Tree 103**

4.5.1 Tree 103 was identified as *Corymbia maculata* (Spotted Gum) and was allocated a High Landscape Significance Value and a Retention Value of *Consider for Retention*.

4.5.2 The proposed hydraulic upgrades are within the SRZ of Tree 103. Works within the SRZ represent a *Major Encroachment* as defined by AS-4970 as root severance within the SRZ can lead to the destabilisation of the tree.

4.5.3 Given the size and location of the encroachment, the long term structural and physiological viability of Tree 103 is highly likely to be compromised by the proposed encroachment and the tree will need to be removed to accommodate the works.

4.5.4 Refer to Appendix 4 for further detail.

4.5.5 Removal and replacement with a healthy advanced size specimen would replace the loss of amenity within a medium timeframe.

4.6 **Tree 23**

4.6.1 Tree 23 was assigned a Low Landscape Significance Values. Tree 23 is exempt from the Council's Tree Management based on dimensions/species and can be removed without Council consent.

4.6.2 Tree 23 is within the footprint of the proposed building footprint and will need to be removed.

4.6.3 Refer to Appendix 2 & 4 for further detail.

4.6.4 Removal and replacement with a healthy advanced size specimen would replace the loss of amenity within a short to medium timeframe.

4.7 **Removal & Replacement Planting**

4.7.1 Removal works should be carried out by a practising arborist. The practising arborist should hold a minimum qualification equivalent (using Australian Qualifications Framework) of Level 3 or above in arboriculture or its recognised equivalent. The practising arborist should have a minimum of 3 years of practical experience. Removal works should be undertaken in accordance with the Australian Standard 4373: Pruning of Amenity Trees (2007), Safe Work Australia Guide for Managing Risks of Tree Trimming and Removal Work (2016) and other applicable legislation and codes.

4.7.2 Replacement tree planting should be provided when trees are removed. Replacement trees should be supplied as advanced size stock to help offset the loss of amenity resultant from the tree removals.

4.7.3 Replacement planting should be supplied in accordance with Australian Standard 2303: Tree Stock for Landscape Use (2015).

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5.0 REFERENCES |

Mattheck & Breloer (2003), *The Body Language of Trees – A Handbook for Failure Analysis*.

NSW Office of Environment and Heritage's Atlas of NSW Wildlife (2011), *BioNet Atlas of NSW Wildlife*.

Standards Australia (2009) Protection of Trees on Development Sites AS4970.

Standards Australia (2007) Pruning of Amenity Trees AS4373.

Standards Australia (2015) Tree Stock for Landscape Use AS2303.

6.0 APPENDIX 1 | METHODOLOGY

6.1 This report was based on data from a site inspection conducted between 03.02.2023, 3.11.23, 25.10.25 & 20.2.25. The recommendations in this report are based on and limited to observations from these site inspections.

6.2 The subject tree(s) was assessed using the Visual Tree Assessment methodology described in *The Body Language of Trees – A Handbook for Failure Analysis* (Mattheck et al., 2003). Subject trees were assessed from the ground only to provide an Arboricultural Impact Assessment and Tree Protection Specification report. No internal diagnostic testing was undertaken as part of this assessment. Trees outside the subject site were assessed from the property boundaries only.

6.3 The dimensions of the subject tree(s) are an approximation only.

6.4 The location of the subject tree(s) was determined from the location plan provided. Trees not shown on this plan have been plotted in their approximate location only.

6.5 Tree Protection Zones & Structural Root Zones for the subject tree(s) was based on methods outlined in Australian Standard 4970: *Protection of Trees on Development Sites* (2009).

6.6 The health of the subject tree(s) was determined by assessing:

- Foliage size and colour
- Pest and disease infestation
- Extension growth
- Crown density
- Deadwood size and volume
- Presence of epicormic growth

6.7 The structural condition of the subject tree(s) was assessed by:

- Visible evidence of structural defects or instability
- Evidence of previous pruning or physical damage

6.8 The Useful Life Expectancy (ULE) is used to estimate a tree's longevity in its growing environment. The ULE is based on a tree's species, health, structural condition and site suitability. The tree(s) has been allocated one of the following ULE categories (modified from Barrell, 2001):

- 40 years +
- 15-40 years
- 5-15 years
- Less than 5 years

6.9 The Landscape Significance is based on a qualitative assessment of a tree's cultural, environmental and aesthetic value. This provides a relative measure of a tree's Landscape Significance and can be used to determine its Retention Value. Trees are rated under the following categories:

- Very High
- High
- Moderate
- Low
- Insignificant

LANDSCAPE SIGNIFICANCE	DESCRIPTION
VERY HIGH	The subject tree is listed as a Heritage Item under the Local Environmental Plan with a local or state level of significance.
	The subject tree is listed on Council's Significant Tree Register.
	The subject tree is a remnant tree.
HIGH	The subject tree creates a 'sense of place' or is considered 'landmark' tree.
	The subject tree is of local, cultural or historical importance or is widely known.
	The subject tree has been identified by a suitably qualified professional as a species scheduled as a Threatened or Vulnerable Species or forms part of an Endangered Ecological Community associated with the subject site, as defined under the provisions of the Threatened Species Conservation Act 1995 (NSW) or the Environmental Protection and Biodiversity Conservation Act 1999.
	The subject tree is known to provide habitat to a threatened species.
	The subject tree is an excellent representative of the species in terms of aesthetic value.
	The subject tree is of significant size, scale or makes a significant contribution to the canopy cover of the locality.
	The subject tree forms part of the curtilage of a heritage item with a known or documented association with that item.
MODERATE	The subject tree makes a positive contribution to the visual character or amenity of the area.
	The subject tree provides a specific function such as screening or minimising the scale of a building.
	The subject tree has a known habitat value.
	The subject tree is a good representative of the species in terms of aesthetic value.
LOW	The subject tree is an environmental pest species or is exempt under the provisions of the local Council's Tree Management Controls.
	The subject tree makes little or no contribution to the amenity of the locality.
	The subject tree is a poor representative of the species in terms of aesthetic value.
INSIGNIFICANT	The subject tree is declared a Noxious Weed under the Noxious Weeds Act.

The above table was provided by Anna Hopwood of TreeIQ™ and was modified from the Earthscape Criteria for Assessment of Landscape Significance.

6.10 The Retention Value is based on a tree's ULE and Landscape Significance. The subject tree(s) has been allocated one of the following Retention Values:

- Priority for Retention
- Consider for Retention
- Consider for Removal
- Priority for Removal

<table>
<tr><th>ULE</th><th colspan="5">LANDSCAPE SIGNIFICANCE</th></tr>
<tr><td></td><td>VERY HIGH</td><td>HIGH</td><td>MODERATE</td><td>LOW</td><td>INSIGNIFICANT</td></tr>
<tr><td>40 years +</td><td rowspan="2">Priority for Retention</td><td colspan="2">Priority for Retention</td><td rowspan="3">Consider for Removal</td><td rowspan="3">Priority for Removal</td></tr>
<tr><td>15-40 years</td><td>Priority for Retention</td><td>Consider for Retention</td></tr>
<tr><td>5-15 years</td><td colspan="3">Consider for Retention</td></tr>
<tr><td>Less than 5 years</td><td>Consider for Removal</td><td colspan="4">Priority for Removal</td></tr>
</table>

The above table was provided by Anna Hopwood of TreeIQ™

6.11 The Tree Protection Zone (TPZ) is the area above and below ground required to preserve the vigour and long-term viability of the tree. The TPZ is based on scientific research and is generally considered by the arboricultural industry as the area required to provide adequate tree protection during construction. The TPZ is the primary means of protecting trees on development sites (Australian Standard 4970:*Protection of Trees on Development Sites*, 2009).

6.12 Works within the TPZ should be avoided. However, *Minor Encroachments,* defined in AS4970 as less than 10% of the TPZ area, are considered acceptable when it is compensated for elsewhere and contiguous within the TPZ. A *Major Encroachment*, defined in AS4970 as greater than 10% of the TPZ area or within the Structural Root Zone (SRZ), may require root investigations by non-destructive methods and tree sensitive construction methods.

6.13 The TPZ is the area within a circle that is centred on the trunk. The radius of the TPZ is calculated by the following formula:

TPZ= DBH x 12

where

DBH= Diameter at Breast Height (1.4m)

6.14 The SRZ is the minimum area around the base of the tree required for the tree's stability. The SRZ only relates to tree stability and not the vigour and long-term viability of the tree.

6.15 The SRZ is the area within a circle that is centred on the trunk. The radius of the SRZ is calculated by the following formula:

$$SRZ = (Dx50)^{0.42} \times 0.64$$

where

D= Trunk diameter (m) above the root buttress

6.16 Encroachment into SRZ (i.e. severance of structural roots >25mmØ) may lead to the destabilisation of the tree and the long-term viability must be demonstrated in such cases. This may require root investigations by non-destructive methods.

6.17 For further details on the TPZ and SRZ please refer to Australian Standard 4970: *Protection of Trees on Development Sites* (2009).

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7.0 APPENDIX 2 | TREE ASSESSMENT SCHEDULE

Tree No.	Species	Height (m)	Radial Crown Spread (m)	DBH comb. (mm)	Radial TPZ (m)	TPZ Area (m^2)	Radial SRZ (m)	Health Rating	Structural Rating	Age Class	ULE (years)	L/Sign	Retention Value	Comments	TPZ Encroachment (%)
1	*Eucalyptus tereticornis* (Forest Red Gum)	7	3	200	2	18	1.8	Fair	Good	Senescent	5-15	Low	*Consider for Removal*		No Encroachment (Retain)
2	*Eucalyptus tereticornis* (Forest Red Gum)	16	8	300	4	41	2.1	Good	Good	Mature	15-40	Moderate	*Consider for Retention*	4m	No Encroachment (Retain)
3	*Eucalyptus tereticornis* (Forest Red Gum)	16	8	300	4	41	2.1	Good	Fair	Mature	15-40	High	*Priority for Retention*	3.6 Co-dominant inclusions, minor.	No Encroachment (Retain)
4	*Corymbia maculata* (Spotted Gum)	16	8	225	3	23	1.8	Good	Good	Mature	15-40	High	*Priority for Retention*	3.2	No Encroachment (Retain)
5	*Eucalyptus tereticornis* (Forest Red Gum)	14	3	200	2	18	1.8	Good	Good	Semi-mature	5-15	Low	*Consider for Removal*	2.66	35.9% (SRZ- (Retain)
6	*Eucalyptus tereticornis* (Forest Red Gum)	17	5	300	4	41	2.1	Good	Good	Mature	15-40	High	*Priority for Retention*	Crown over building 2.4	19.9% (SRZ- Retain)
7	*Eucalyptus tereticornis* (Forest Red Gum)	20	7	375	5	64	2.3	Fair	Fair	Late Mature	5-15	High	*Consider for Retention*	2.9 Crown density 50-75%. Co-dominant inclusions, minor. Wound(s), early signs of decay. Borer.	27.5% (SRZ - Retain)
20	*Corymbia maculata* (Spotted Gum)	22	8	575	7	150	2.7	Good	Poor	Mature	5-15	High	*Consider for Retention*	Wound(s), advanced stages of decay. Trunk cavity(s), major. Borer.	9.6% (Retain)
21	*Corymbia maculata* (Spotted Gum)	17	7	350	4	55	2.2	Good	Good	Mature	15-40	High	*Priority for Retention*		No Encroachment (Retain)

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Tree No.	Species	Height (m)	Radial Crown Spread (m)	DBH comb. (mm)	Radial TPZ (m)	TPZ Area (m^2)	Radial SRZ (m)	Health Rating	Structural Rating	Age Class	ULE (years)	L/Sign	Retention Value	Comments	TPZ Encroachment (%)
22	*Morus sp.* (Mulberry tree)	6	2	106	2	13	1.5	Good	Fair	Mature	5-15	Low	*Consider for Removal*	Co-dominant inclusions, minor.	No Encroachment (Retain)
23	*Callistemon viminalis* (Weeping Bottlebrush)	3	2	71	2	13	1.5	Good	Fair	Mature	5-15	Low	*Consider for Removal*	Lopped. Limited crown clearance. Structures within SRZ.	43.0% (SRZ-Remove)
40	*Fraxinus sp.* (Raywood)	12	6	325	4	48	2.1	Fair	Good	Mature	5-15	Moderate	*Consider for Retention*	LCD Crown density 75-95%. Small (<25mmø) & medium (25-75mmø) deadwood in low volumes. Limited crown clearance. Structures within SRZ.	5.7% (Retain)
41	*Syzygium leuhmannii* (Small Leaved Lilly Pilly)	6	3	100	2	13	1.5	Good	Good	Mature	5-15	Low	*Consider for Removal*	Structures within SRZ.	16.7% (Retain)
42	*Syzygium leuhmannii* (Small Leaved Lilly Pilly)	6	3	71	2	13	1.5	Good	Good	Mature	5-15	Low	*Consider for Removal*		No Encroachment (Retain)
47	*Acer buergeranum* (Trident Maple)	10	4	141	2	13	1.5	Good	Good	Mature	5-15	Moderate	*Consider for Retention*	Small (<25mmø) epicormic growth in high volumes. Borer.	No Encroachment (Retain)
50	*Syzygium leuhmannii* (Small Leaved Lilly Pilly)	6	2	75	2	13	1.5	Good	Good	Mature	5-15	Low	*Consider for Removal*	Limited crown clearance. Structures within SRZ.	Within Development Footprint (Remove)
51	*Syzygium leuhmannii* (Small Leaved Lilly Pilly)	6	2	106	2	13	1.5	Good	Good	Mature	5-15	Low	*Consider for Removal*		Within Development Footprint (Remove)
52	*Syzygium leuhmannii* (Small Leaved Lilly Pilly)	6	2	50	2	13	1.5	Good	Good	Mature	5-15	Low	*Consider for Removal*		Within Development Footprint (Remove)

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Tree No.	Species	Height (m)	Radial Crown Spread (m)	DBH comb. (mm)	Radial TPZ (m)	TPZ Area (m^2)	Radial SRZ (m)	Health Rating	Structural Rating	Age Class	ULE (years)	L/Sign	Retention Value	Comments	TPZ Encroachment (%)
53	*Syzygium leuhmannii* (Small Leaved Lilly Pilly)	6	2	100	2	13	1.5	Good	Good	Mature	5-15	Low	*Consider for Removal*		Within Development Footprint (Remove)
54	*Syzygium leuhmannii* (Small Leaved Lilly Pilly)	6	2	50	2	13	1.5	Good	Good	Mature	5-15	Low	*Consider for Removal*		Within Development Footprint (Remove)
55	*Syzygium leuhmannii* (Small Leaved Lilly Pilly)	10	5	219	3	22	1.8	Good	Good	Mature	5-15	Moderate	*Consider for Retention*	Wound(s), no visible sign of decay. Structures within SRZ.	17.9%
56	*Syzygium leuhmannii* (Small Leaved Lilly Pilly)	10	5	125	2	13	1.5	Good	Good	Mature	5-15	Moderate	*Consider for Retention*		No Encroachment (Retain)
57	*Lagerstroemia indica* (Crepe Myrtle)	7	4	125	2	13	1.5	Good	Good	Mature	5-15	Moderate	*Consider for Retention*	Limited crown clearance. Structures within SRZ.	20.7% (SRZ-Remove)
58	*Platanus orientalis* (Oriental Plane Tree)	14	6	300	4	41	2.1	Good	Good	Mature	15-40	Moderate	*Consider for Retention*	Structures within SRZ.	No Encroachment (Retain)
59	*Platanus orientalis* (Oriental Plane Tree)	14	6	250	3	28	1.9	Good	Fair	Mature	15-40	Moderate	*Consider for Retention*	Order branch cavity, minor.	No Encroachment (Retain)
60	*Platanus orientalis* (Oriental Plane Tree)	14	5	200	2	18	1.8	Fair	Fair	Mature	15-40	Moderate	*Consider for Retention*	Crown density 25-50%. Small (<25mmø) epicormic growth in moderate volumes. Trunk cavity(s), minor.	5.5% (Retain)
61	*Platanus orientalis* (Oriental Plane Tree)	15	7	400	5	72	2.3	Good	Good	Mature	15-40	High	*Priority for Retention*	Wound(s), no visible sign of decay. Structures within SRZ. Pavement over roots.	No Encroachment (Retain)

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Tree No.	Species	Height (m)	Radial Crown Spread (m)	DBH comb. (mm)	Radial TPZ (m)	TPZ Area (m^2)	Radial SRZ (m)	Health Rating	Structural Rating	Age Class	ULE (years)	L/Sign	Retention Value	Comments	TPZ Encroachment (%)
65	*Syncarpia glomulifera* (Turpentine)	6	3	90	2	13	1.5	Good	Good	Young	5-15	Low	*Consider for Removal*	Congested bances Chlorotic foliage.	No Encroachment (Retain)
66	*Melaleuca quinquenervia* (Broad Leaved Paperbark)	10	3	200	2	18	1.8	Fair	Good	Semi-mature	5-15	Moderate	*Consider for Retention*	Small (<25mmø) epicormic growth in high volumes. Pavement over roots.	No Encroachment (Retain)
68	*Pistacia chinensis* (Chinese Pistachio)	7	4	125	2	13	1.5	Fair	Good	Mature	5-15	Low	*Consider for Removal*	Small (<25mmø) epicormic growth in moderate volumes. Limited crown clearance. Structures within SRZ. Phototrophic lean, moderate.	No Encroachment (Retain)
69	*Pistacia chinensis* (Chinese Pistachio)	10	5	215	3	21	1.8	Fair	Good	Mature	5-15	Low	*Consider for Removal*	Crown density 50-75%. Small (<25mmø) deadwood in moderate volumes. Limited crown clearance. Structures within SRZ.	No Encroachment (Retain)
70	*Morus sp.* (Mulberry tree)	9	5	0	2	0	1.5	Good	Poor	Late Mature	5-15	Low	*Consider for Removal*	Small (<25mmø) epicormic growth in high volumes. Co-dominant inclusions, major. Bark inclusion(s), major. Wound(s), early signs of decay. Limited crown clearance. Structures within SRZ.	No Encroachment (Retain)
71	*Melaleuca quinquenervia* (Broad Leaved Paperbark)	7	4	250	3	28	1.9	Good	Good	Mature	5-15	Moderate	*Consider for Retention*	Small (<25mmø) deadwood in moderate volumes. Co-dominant inclusions, minor. Pavement over roots.	57.3% (Retain)
72	*Tristaniopsis laurina* (Water gum)	4	4	100	2	13	1.5	Fair	Fair	Semi-mature	5-15	Low	*Consider for Removal*	Crown density 50-75%. Order branch cavity, minor. Structures within SRZ. Pavement over roots.	8.8% (Retain)
76	*Corymbia maculata* (Spotted Gum)	19	8	500	6	113	2.6	Good	Good	Mature	15-40	High	*Priority for Retention*	Medium (25-75mmø) deadwood in low volumes. Mechanical damage to exposed surface roots.	6.5% (Retain)
77	*Corymbia maculata* (Spotted Gum)	10	5	250	3	28	1.9	Good	Good	Semi-mature	5-15	Moderate	*Consider for Retention*	Wound(s), no visible sign of decay.	No Encroachment (Retain)

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Tree No.	Species	Height (m)	Radial Crown Spread (m)	DBH comb. (mm)	Radial TPZ (m)	TPZ Area (m^2)	Radial SRZ (m)	Health Rating	Structural Rating	Age Class	ULE (years)	L/Sign	Retention Value	Comments	TPZ Encroachment (%)
78	*Corymbia maculata* (Spotted Gum)	12	5	350	4	55	2.2	Good	Fair	Mature	15-40	Moderate	*Consider for Retention*	Co-dominant inclusions, minor. Bark inclusion(s), minor. Wound(s), early signs of decay. Borer.	9.2% (Retain)
102	*Corymbia maculata* (Spotted Gum)	18	8	325	4	48	2.1	Fair	Good	Mature	15-40	High	*Priority for Retention*	Crown density 50-75%. Small (<25mmø) epicormic growth in moderate volumes. Trunk cavity(s), minor. Structures within SRZ.	12.3% (Retain)
103	*Corymbia maculata* (Spotted Gum)	18	8	550	7	137	2.7	Fair	Poor	Late Mature	5-15	High	*Consider for Retention*	Crown density 50-75%. Co-dominant inclusions, major. Bark inclusion(s), major. Wound(s), early signs of decay. Trunk cavity(s), major. Structures within SRZ.	Within Development Footprint (Remove)
104	*Eucalyptus nicholii (Small Leaved Peppermint)*	12	5	300	3.6	40.7	2.1	Good	No access to base. No rating.	Mature	5-15	Moderate	*Consider for Retention*	Small (<25mmø) deadwood in moderate volumes. Structures within SRZ.	Within Development Footprint (Remove)
137	*Corymbia maculata* (Spotted Gum)	18	8	350	4	55	2.2	Fair	Good	Mature	15-40	High	*Priority for Retention*	Crown density 75-95%. Small (<25mmø) deadwood in low volumes. Wound(s), no visible sign of decay.	No Encroachment (Retain)
138	*Corymbia maculata* (Spotted Gum)	18	8	475	6	102	2.5	Good	Fair	Mature	15-40	High	*Priority for Retention*	Crown density 75-95%. Small (<25mmø) deadwood in low volumes. Co-dominant inclusions, minor. Adaptive growth.	0.6% (Retain)

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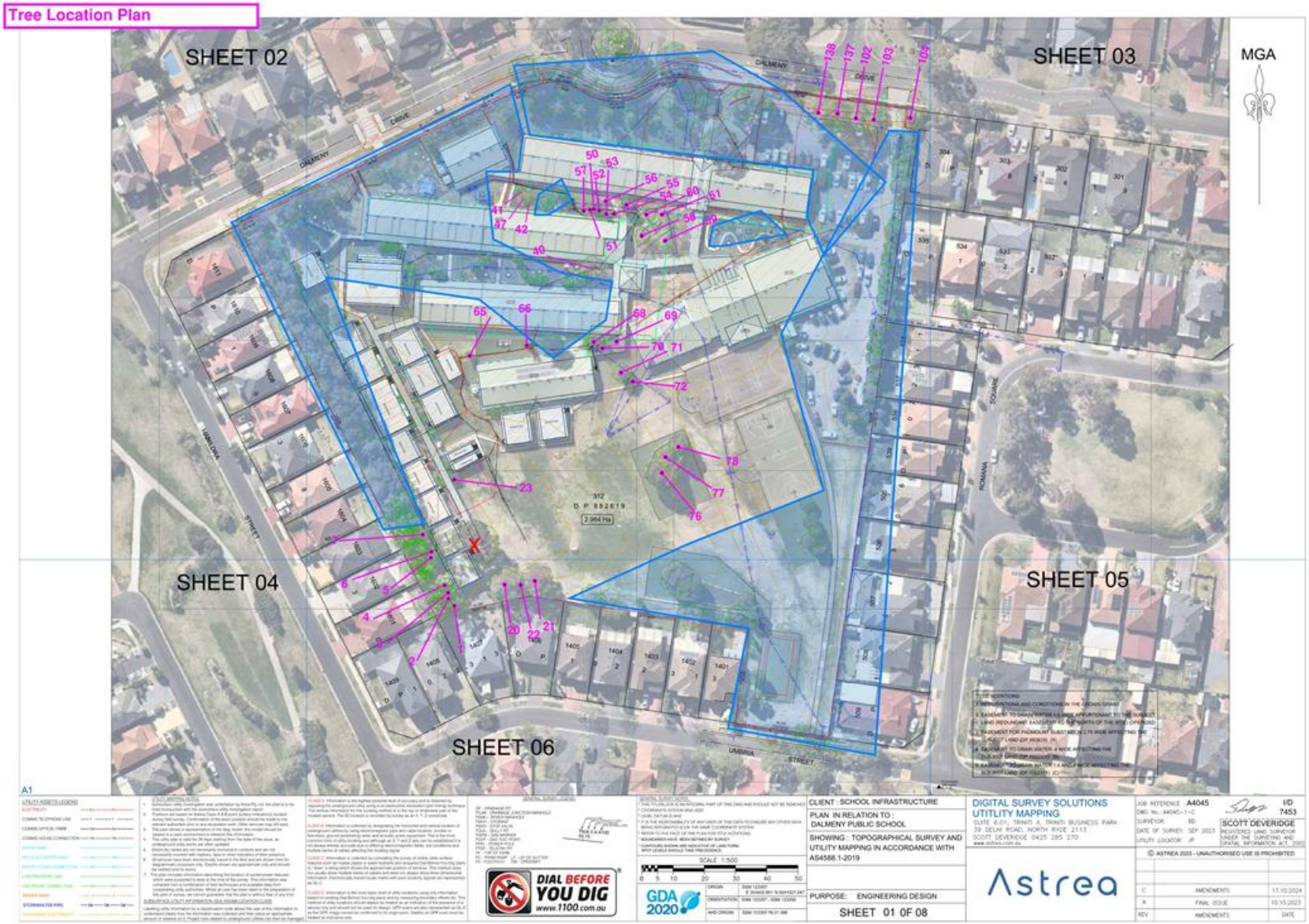
8.0 APPENDIX 3 | TREE LOCATION PLAN



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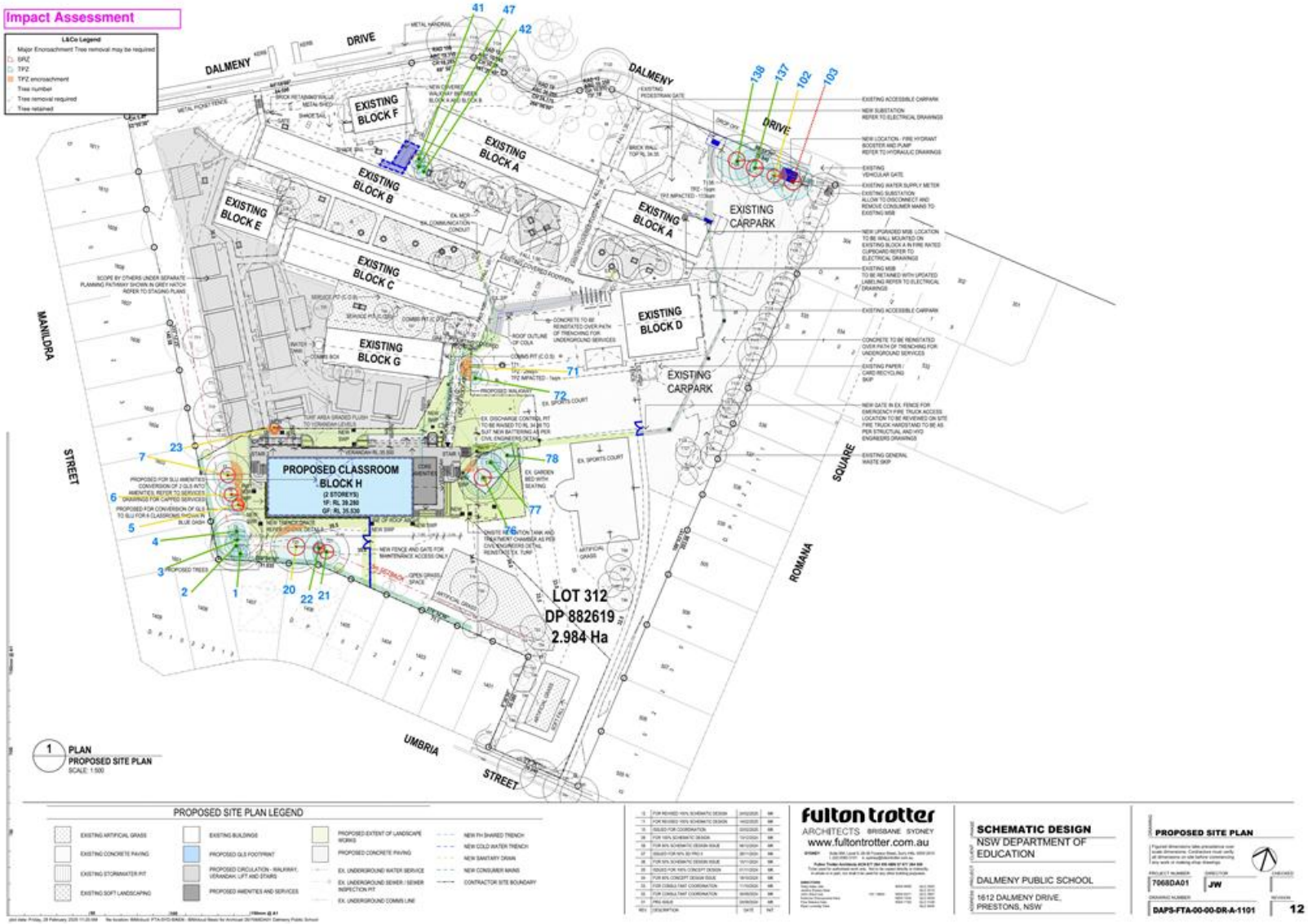
9.0 APPENDIX 4 | ARBORICULTURAL IMPACT ASSESSMENT PLANS



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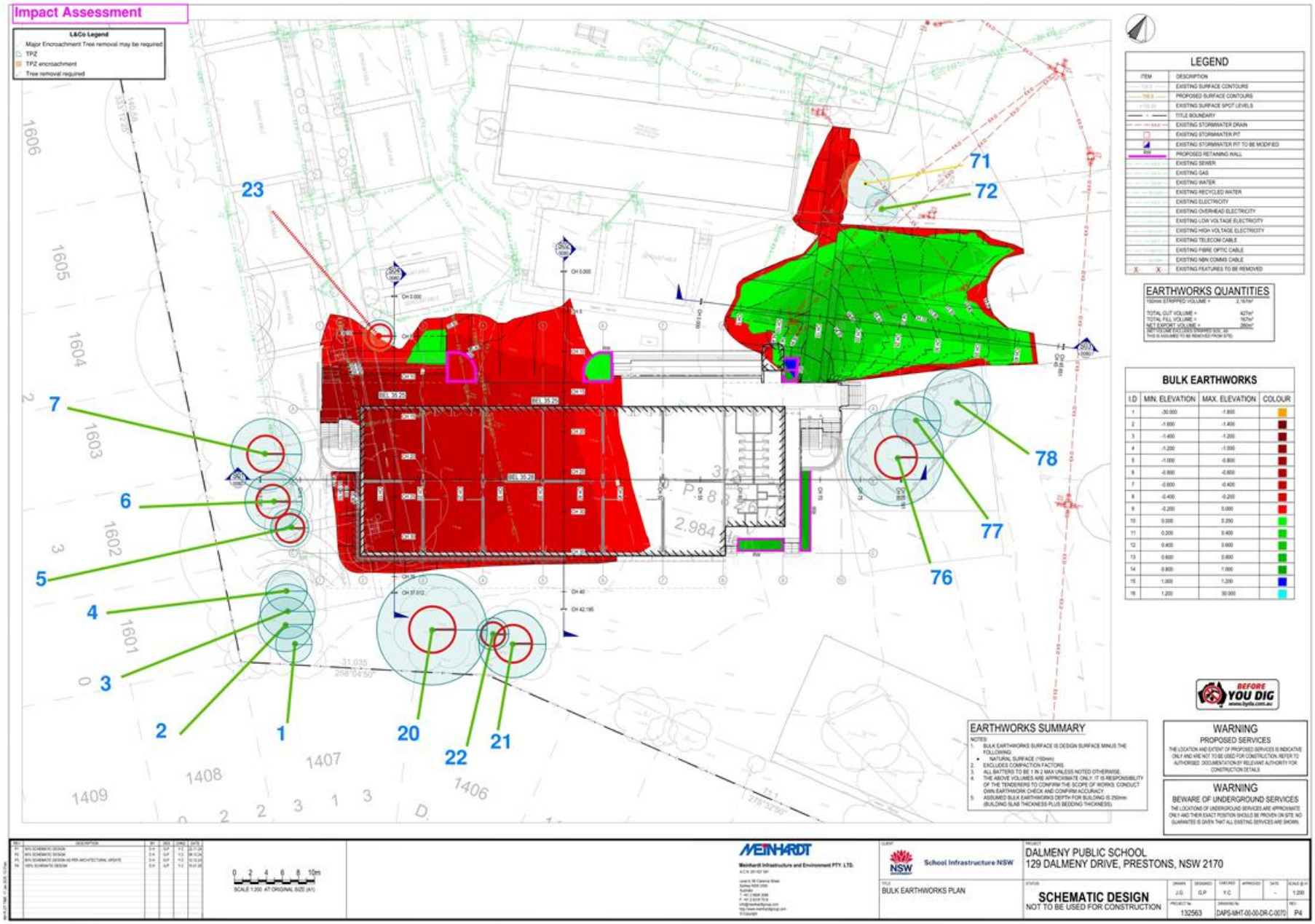
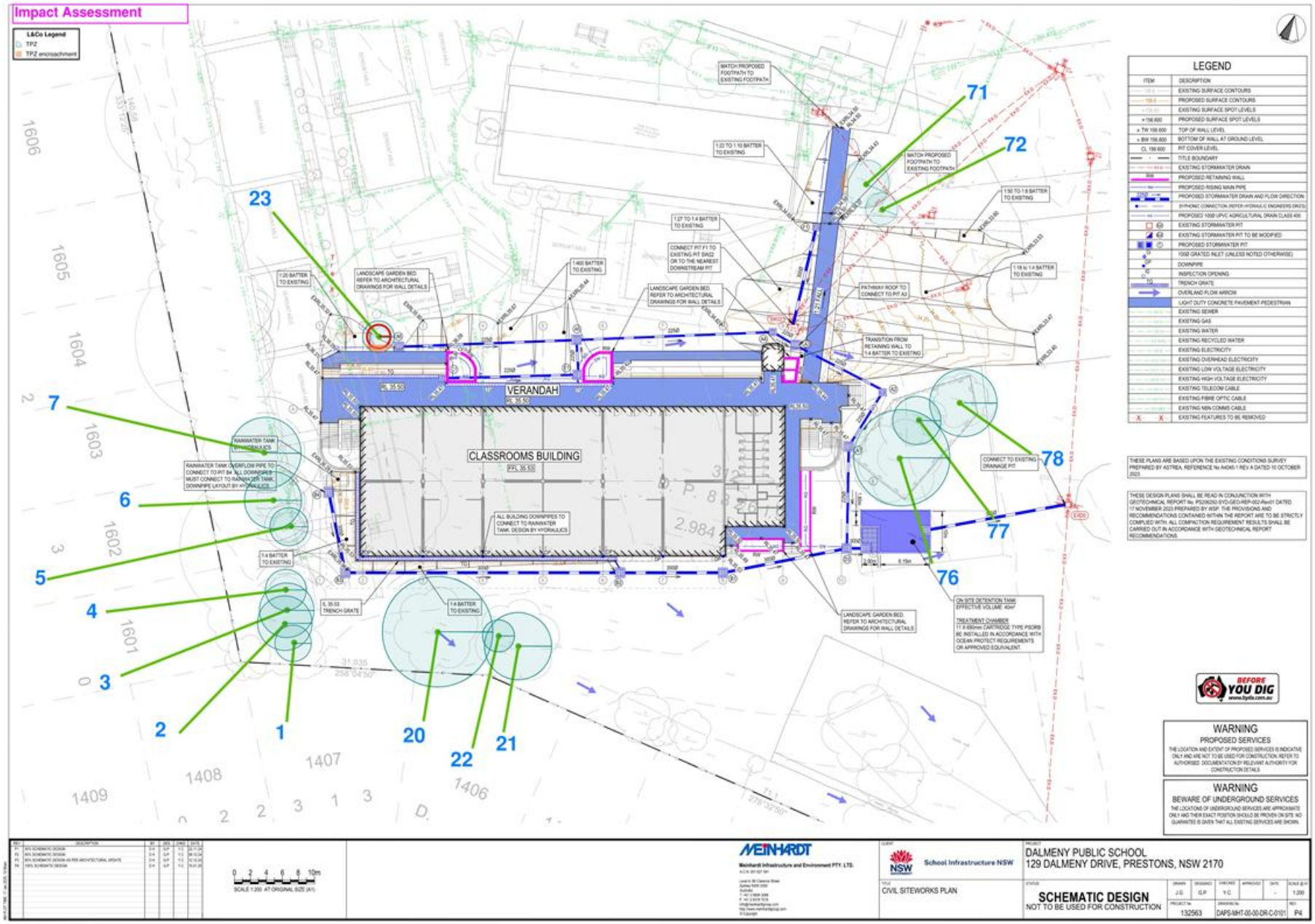

Impact Assessment
L&Co Legend
Major Encroachment Tree removal may be required
TPZ
TPZ encroachment
Tree removal required
LEGEND
EARTHWORKS QUANTITIES
BULK EARTHWORKS
EARTHWORKS SUMMARY
WARNING
PROPOSED SERVICES
WARNING
BEWARE OF UNDERGROUND SERVICES
BEFORE YOU DIG
MEINHARDT
School Infrastructure NSW
DALMENY PUBLIC SCHOOL
129 DALMENY DRIVE, PRESTONS, NSW 2170
BULK EARTHWORKS PLAN
SCHEMATIC DESIGN
NOT TO BE USED FOR CONSTRUCTION
132563
DAPS-MHT-00-00-DR-C-0070
P4



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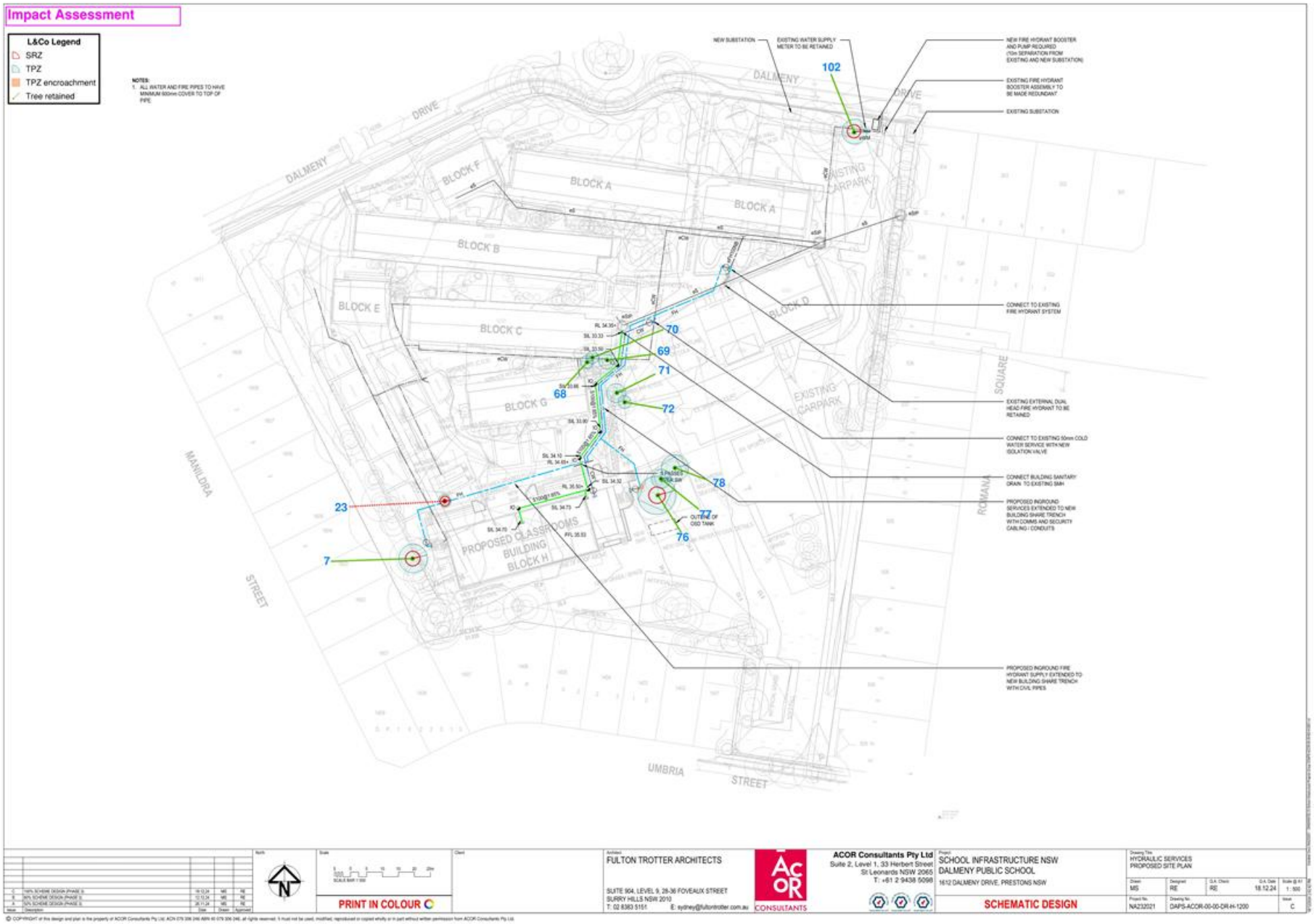
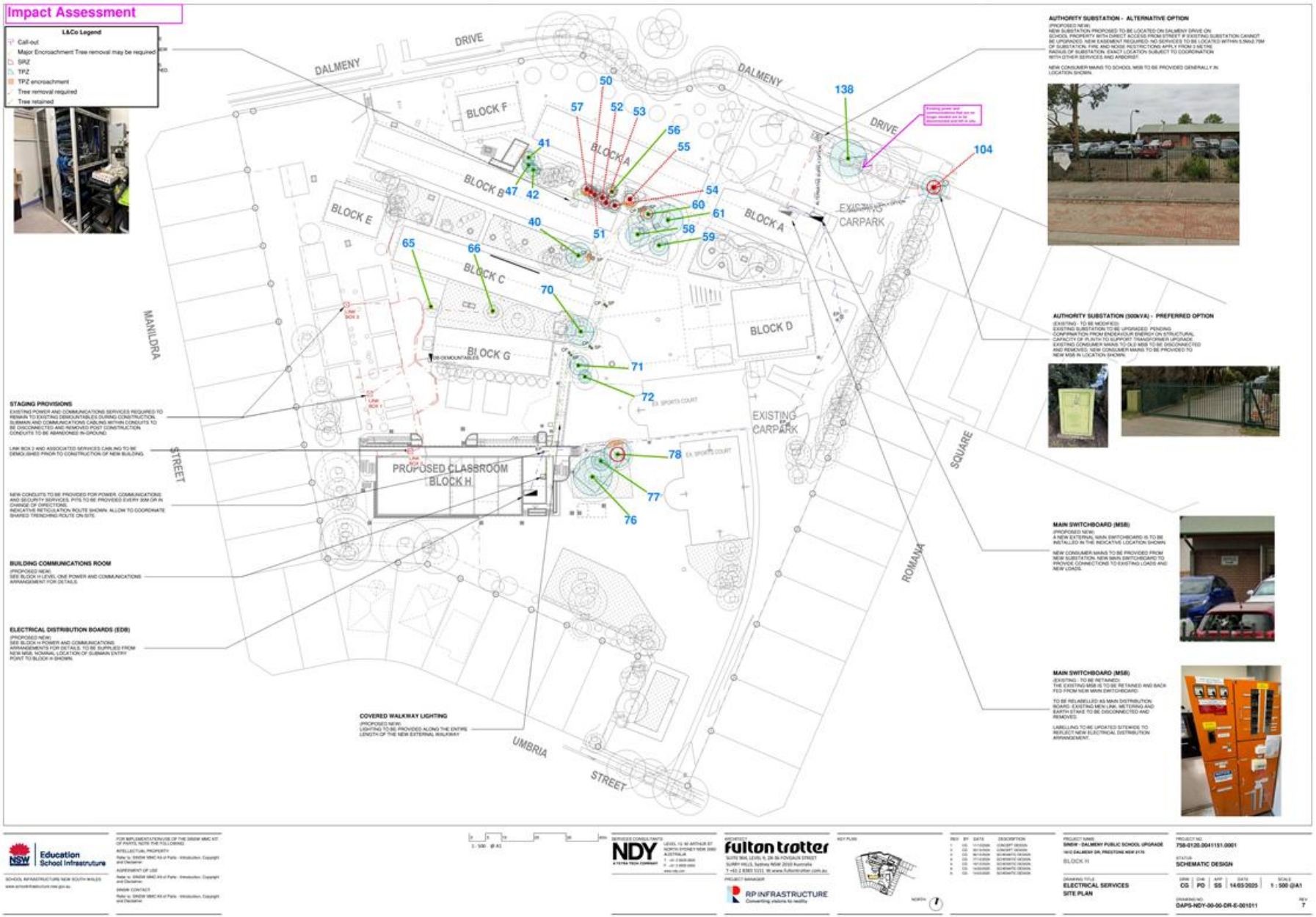

Impact Assessment
L&Co Legend
SRZ
TPZ
TPZ encroachment
Tree retained
NOTES:
1. ALL WATER AND FIRE PIPES TO HAVE MINIMUM 600mm COVER TO TOP OF PIPE
NEW SUBSTATION
EXISTING WATER SUPPLY METER TO BE RETAINED
NEW FIRE HYDRANT BOOSTER AND PUMP REQUIRED (10m SEPARATION FROM EXISTING AND NEW SUBSTATION)
EXISTING FIRE HYDRANT BOOSTER ASSEMBLY TO BE MADE REDUNDANT
EXISTING SUBSTATION
CONNECT TO EXISTING FIRE HYDRANT SYSTEM
EXISTING EXTERNAL DUAL HEAD FIRE HYDRANT TO BE RETAINED
CONNECT TO EXISTING 50mm COLD WATER SERVICE WITH NEW ISOLATION VALVE
CONNECT BUILDING SANITARY DRAIN TO EXISTING SMH
PROPOSED INGROUND SERVICES EXTENDED TO NEW BUILDING SHARE TRENCH WITH COMMS AND SECURITY CABLING / CONDUITS
PROPOSED INGROUND FIRE HYDRANT SUPPLY EXTENDED TO NEW BUILDING SHARE TRENCH WITH CIVIL PIPES
DALMENY DRIVE
BLOCK F
BLOCK A
BLOCK B
BLOCK E
BLOCK C
BLOCK D
BLOCK G
EXISTING CARPARK
PROPOSED CLASSROOMS BUILDING BLOCK H
MANILDRA STREET
ROMANA SQUARE
UMBRIA STREET
102
70
69
71
68
72
78
77
76
23
7
PRINT IN COLOUR
FULTON TROTTER ARCHITECTS
SUITE 904, LEVEL 9, 26-36 FOVEAUX STREET
SURRY HILLS NSW 2010
T: 02 8383 5151 E: sydney@fultontrotter.com.au
ACOR Consultants Pty Ltd
Suite 2, Level 1, 33 Herbert Street
St Leonards NSW 2065
T: +61 2 9438 5098
CONSULTANTS
SCHOOL INFRASTRUCTURE NSW
DALMENY PUBLIC SCHOOL
161/2 DALMENY DRIVE, PRESTONS NSW
SCHEMATIC DESIGN
HYDRAULIC SERVICES
PROPOSED SITE PLAN
MS
RE
RE
18.12.24
1 : 500
NA232021
DAPS-ACOR-00-00-DR-H-1200
C



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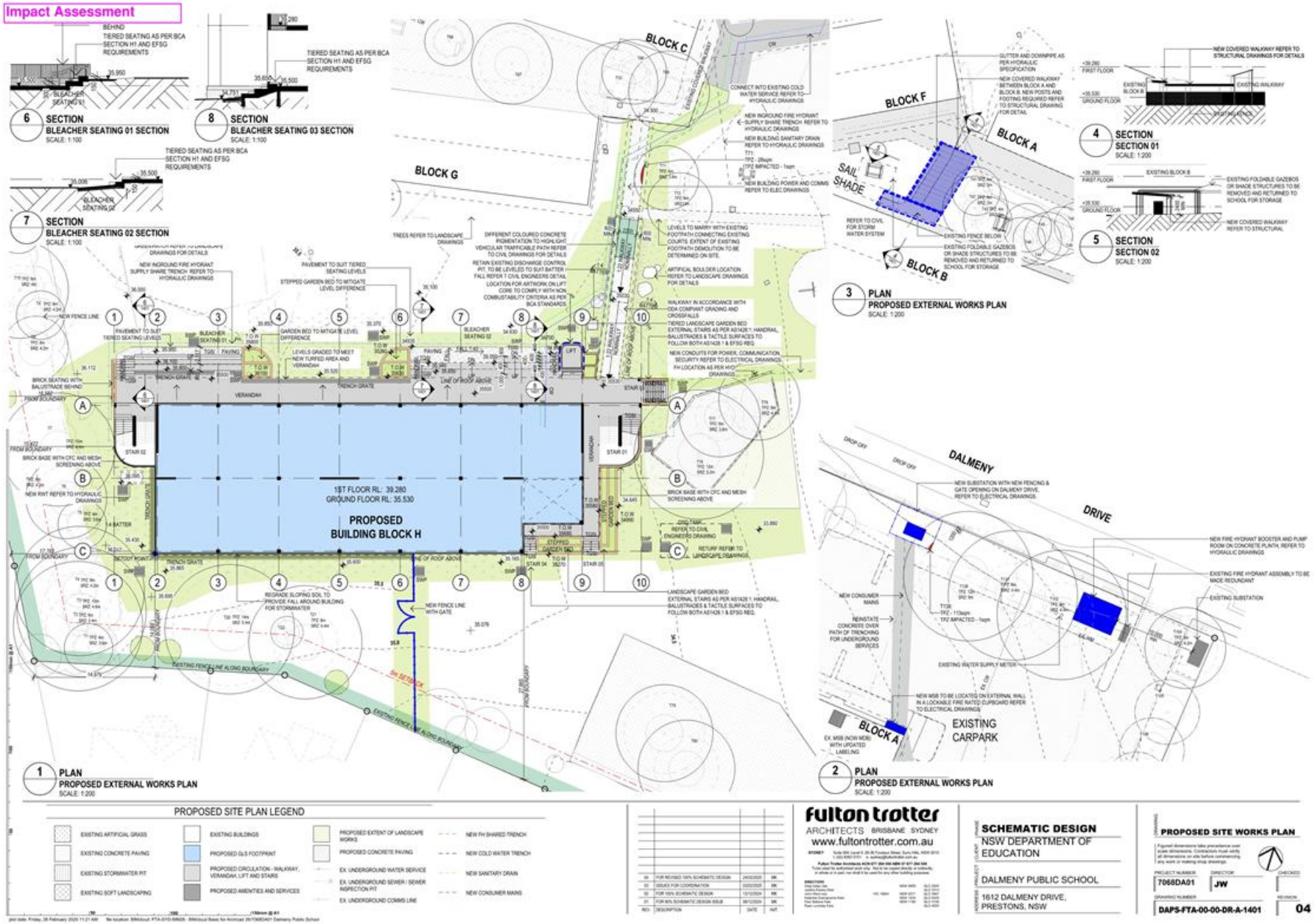

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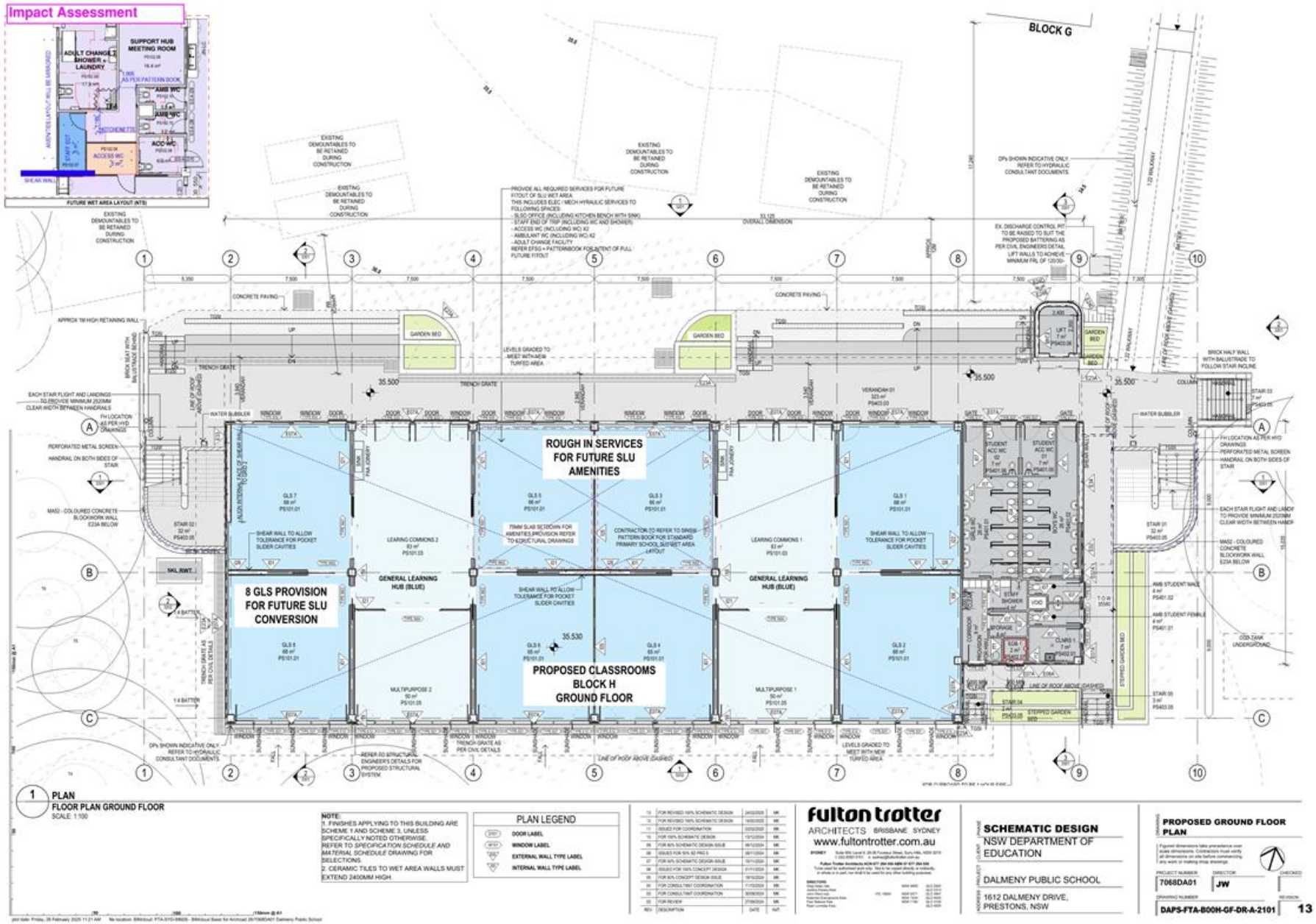
SCHEMATIC DESIGN
NSW DEPARTMENT OF EDUCATION
DALMENY PUBLIC SCHOOL
1612 DALMENY DRIVE, PRESTONS, NSW

PROPOSED SITE WORKS PLAN
PROJECT NUMBER 7068DA01
DIRECTOR JW
DRAWING NUMBER DAPS-FTA-00-00-DR-A-1401
REVISION 04


Impact Assessment
FUTURE WET AREA LAYOUT (NTS)
BLOCK G
ROUGH IN SERVICES FOR FUTURE SLU AMENITIES
8 GLS PROVISION FOR FUTURE SLU CONVERSION
PROPOSED CLASSROOMS BLOCK H GROUND FLOOR
GENERAL LEARNING HUB (BLUE)
LEARING COMMONS 1
LEARING COMMONS 2
MULTIPURPOSE 1
MULTIPURPOSE 2
1 PLAN
FLOOR PLAN GROUND FLOOR
SCALE: 1:100
PLAN LEGEND
DOOR LABEL
WINDOW LABEL
EXTERNAL WALL TYPE LABEL
INTERNAL WALL TYPE LABEL
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SCHEMATIC DESIGN
NSW DEPARTMENT OF EDUCATION
DALMENY PUBLIC SCHOOL
1612 DALMENY DRIVE, PRESTONS, NSW
PROPOSED GROUND FLOOR PLAN
7068DA01
JW
DAPS-FTA-B00H-GF-DR-A-2101
13

ID	BOTANICAL NAME (COMMON NAME)	EXISTING HEIGHT	PROPOSED ACTION
T1	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	7M	RETAINED
T2	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	10M	RETAINED
T3	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	10M	RETAINED
T4	CORYMBIA MACULATA (SPOTTED GUM)	10M	RETAINED
T5	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	14M	RETAINED
T6	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	17M	RETAINED
T7	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	20M	RETAINED
T8	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	18M	RETAINED
T9	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	15M	RETAINED
T10	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	17M	RETAINED
T11	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	8M	RETAINED
T12	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	10M	RETAINED
T13	CASUARINA GLAUCA (SWAMP SHE OAK)	8M	RETAINED
T14	EUCALYPTUS MOLUCCANA (GREY BOX)	22M	RETAINED
T16	EUCALYPTUS MOLUCCANA (GREY BOX)	18M	RETAINED
T17	EUCALYPTUS MOLUCCANA (GREY BOX)	22M	RETAINED
T18	EUCALYPTUS TERETICORNIS (FOREST RED GUM)	8M	RETAINED
T20	CORYMBIA MACULATA (SPOTTED GUM)	22M	RETAINED
T21	CORYMBIA MACULATA (SPOTTED GUM)	17M	RETAINED
T22	MORUS SP. (MULBERRY TREE)	6M	REMOVED
T23	CALLISTEMON VIMINALIS (WEEPING BOTTLEBRUSH)	3M	REMOVED
T24	CALLISTEMON VIMINALIS (WEEPING BOTTLEBRUSH)	3M	REMOVED
T25	CALLISTEMON VIMINALIS (WEEPING BOTTLEBRUSH)	3M	REMOVED
T26	MICHELIA FIGO (PORT WINE MAGNOLIA)	3M	REMOVED
T27	BANKSIA ERICIFOLIA (HEATH BANKSIA)	3M	REMOVED
T68	PISTACIA CHINENSIS (CHINESE PISTACHIO)	7M	RETAINED
T69	PISTACIA CHINENSIS (CHINESE PISTACHIO)	10M	RETAINED
T70	MORUS SP. (MULBERRY TREE)	8M	RETAINED
T71	MELALEUCA QUINQUENERVIA (BROAD LEAVED PAPERBARK)	7M	RETAINED
T72	TRISTANIOPSIS LAURINA (WATER GUM)	4M	RETAINED
T73	SYZYGIUM LEUHMANNII (SMALL LEAVED LILLY PILLY)	3M	RETAINED
T74	SYZYGIUM LEUHMANNII (SMALL LEAVED LILLY PILLY)	3M	RETAINED
T75	SYZYGIUM LEUHMANNII (SMALL LEAVED LILLY PILLY)	3M	RETAINED
T76	CORYMBIA MACULATA (SPOTTED GUM)	10M	RETAINED
T77	CORYMBIA MACULATA (SPOTTED GUM)	10M	RETAINED
T78	CORYMBIA MACULATA (SPOTTED GUM)	12M	RETAINED
T100	CORYMBIA MACULATA (SPOTTED GUM)	10M	RETAINED
T101	CORYMBIA MACULATA (SPOTTED GUM)	10M	REMOVED
T104	ECUALYPTUS NICHOLII (SMALL LEAVED PEPPERMINT)	12M	RETAINED
T137	CORYMBIA MACULATA (SPOTTED GUM)	10M	RETAINED
T138	CORYMBIA MACULATA (SPOTTED GUM)	10M	RETAINED

ABOVE TABLE RECORDS DETAILS ONLY OF TREES DIRECTLY ADJACENT TO PROPOSED WORKS AND FOR WHICH DATA IS AVAILABLE. EXISTING TREE HEIGHTS AND SPECIES SOURCED FROM LAURENCECO PRELIMINARY ARBORICULTURAL REPORT DATED 24TH NOVEMBER 2023 AND ARBORICULTURAL IMPACT ASSESSMENT & TREE PROTECTION SPECIFICATION DATED 07TH NOVEMBER 2024.

LANDSCAPE ARCHITECT
GROUND INK
LANDSCAPE ARCHITECTS

NOTE
VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK. REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DRAWINGS. ALL WORK IS TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND OTHER CODES AS APPLICABLE. LOCATION OF UNDERGROUND SERVICES TO BE PROVEN ON SITE AND PROTECTED IF NECESSARY PRIOR TO CONSTRUCTION. DIAL BEFORE YOU DIG. PLANT SPECIES AND QUANTITIES SHOWN ARE INDICATIVE ONLY AND ARE SUBJECT TO CHANGE BASED ON FUTURE PROJECT REQUIREMENTS.

ISSUE	DATE	DESCRIPTION	DRAWN	CHECKED
A	04.12.24	50% SCHEMATIC ISSUE	AG	RL
B	19.12.24	50% SCHEMATIC ISSUE	AG	RL
C	13.02.25	50% SCHEMATIC ISSUE	GN	RL
D	14.02.25	50% SCHEMATIC ISSUE	GN	RL
E	17.03.25	50% SCHEMATIC ISSUE	GN	RL

DRAWING TITLE
LANDSCAPE PLAN

DRAWING NUMBER
DAPS-GIL-00-00-DR-L-3001

PROJECT
DALMENY PUBLIC SCHOOL UPGRADE
1612 DALMENY DRIVE, PRESTONS, NSW 2170

NORTH

SCALE 1:400 @ A1

REV E

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10.0 APPENDIX 5 | TREE RETENTION/REMOVAL PLAN

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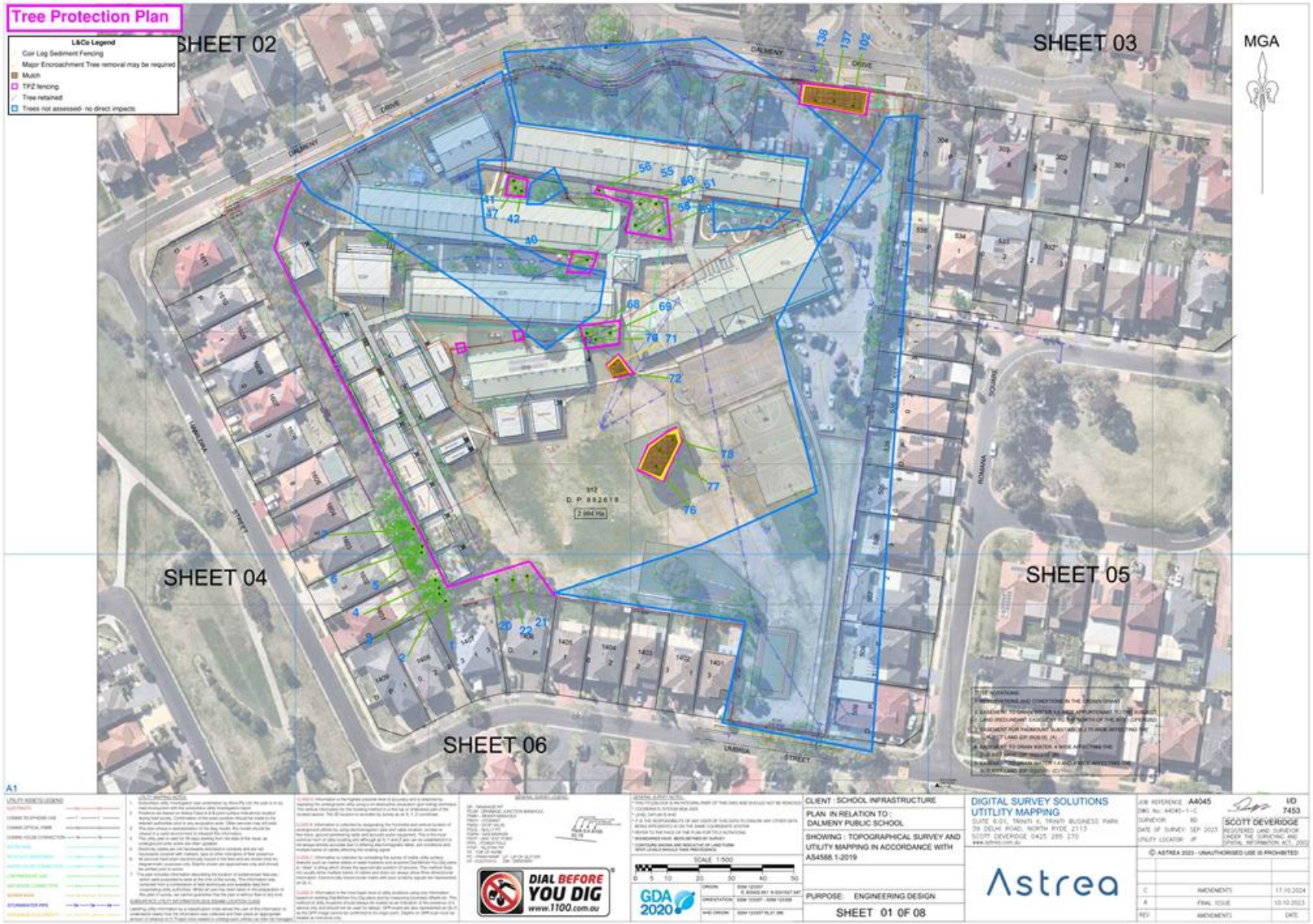
11.0 APPENDIX 6 | TREE PROTECTION PLAN



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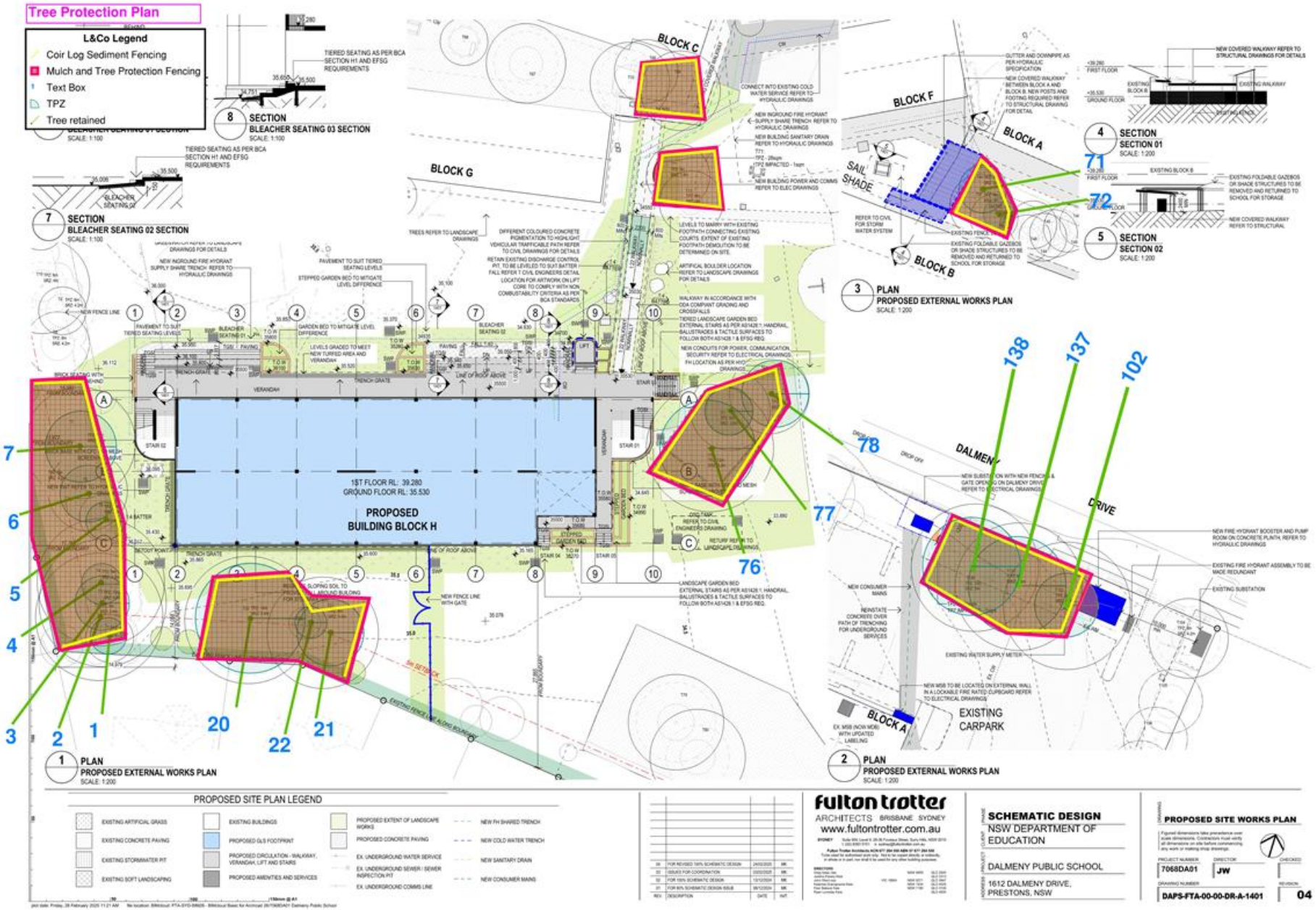
Tree Protection Plan
L&Co Legend
Coir Log Sediment Fencing
Mulch and Tree Protection Fencing
Text Box
TPZ
Tree retained
8 SECTION
BLEACHER SEATING 03 SECTION
SCALE: 1:100
7 SECTION
BLEACHER SEATING 02 SECTION
SCALE: 1:100
BLOCK C
BLOCK G
BLOCK F
BLOCK A
BLOCK B
SAIL SHADE
4 SECTION
SECTION 01
SCALE: 1:200
5 SECTION
SECTION 02
SCALE: 1:200
3 PLAN
PROPOSED EXTERNAL WORKS PLAN
SCALE: 1:200
1ST FLOOR RL: 39.280
GROUND FLOOR RL: 35.530
PROPOSED
BUILDING BLOCK H
DALMENY
DRIVE
EXISTING
CARPARK
1 PLAN
PROPOSED EXTERNAL WORKS PLAN
SCALE: 1:200
2 PLAN
PROPOSED EXTERNAL WORKS PLAN
SCALE: 1:200
PROPOSED SITE PLAN LEGEND
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SCHEMATIC DESIGN
NSW DEPARTMENT OF EDUCATION
DALMENY PUBLIC SCHOOL
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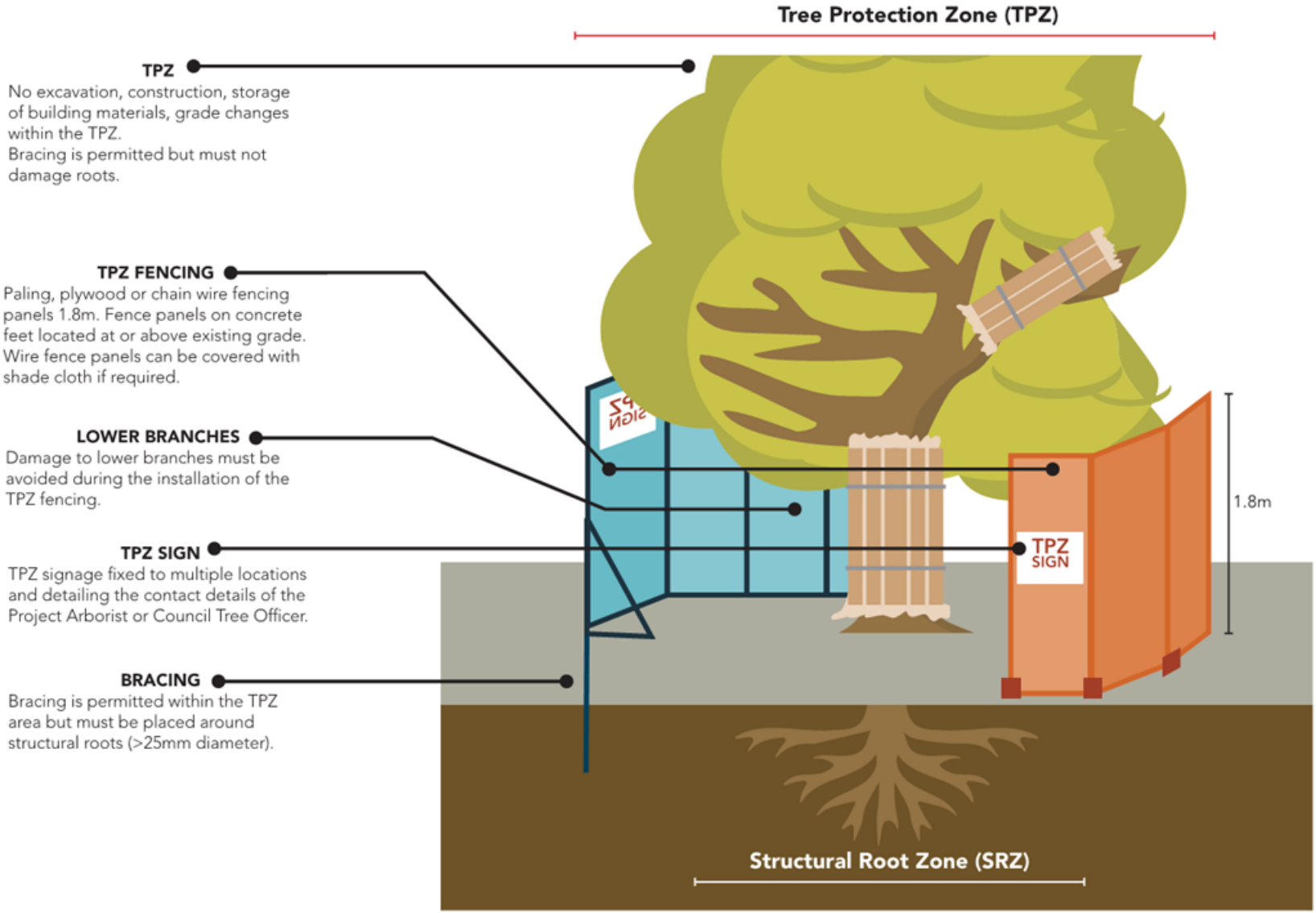
PRESTONS, NSW
PROPOSED SITE WORKS PLAN
7068DA01
JW
DAPS-FTA-00-00-DR-A-1401
04

12.0 APPENDIX 7 | TYPICAL TREE PROTECTION DETAIL

Tree Protection Detail - TPZ Fencing



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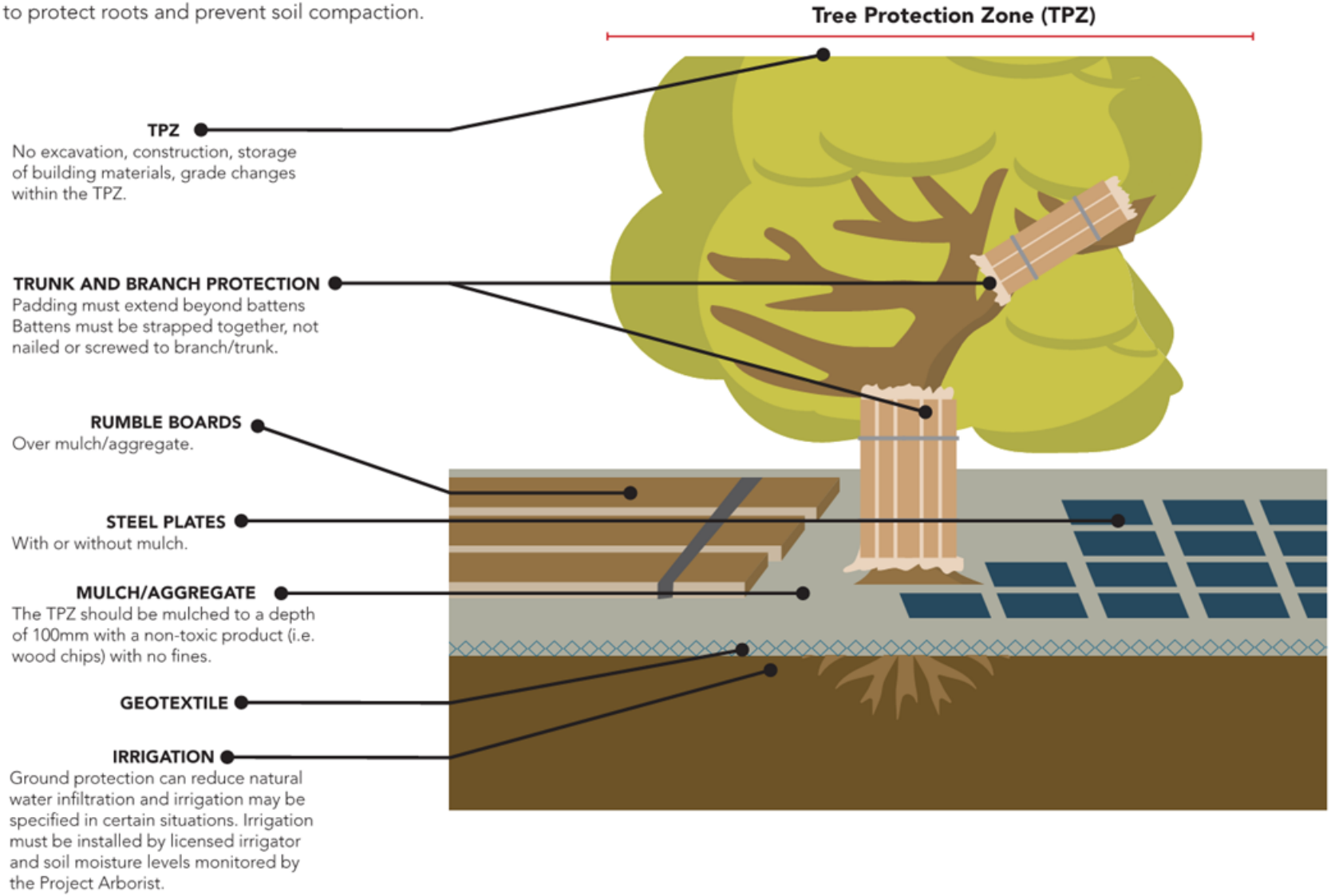
Tree Protection Detail - Ground Protection

Required if temporary access for machinery is required within the TPZ to protect roots and prevent soil compaction.



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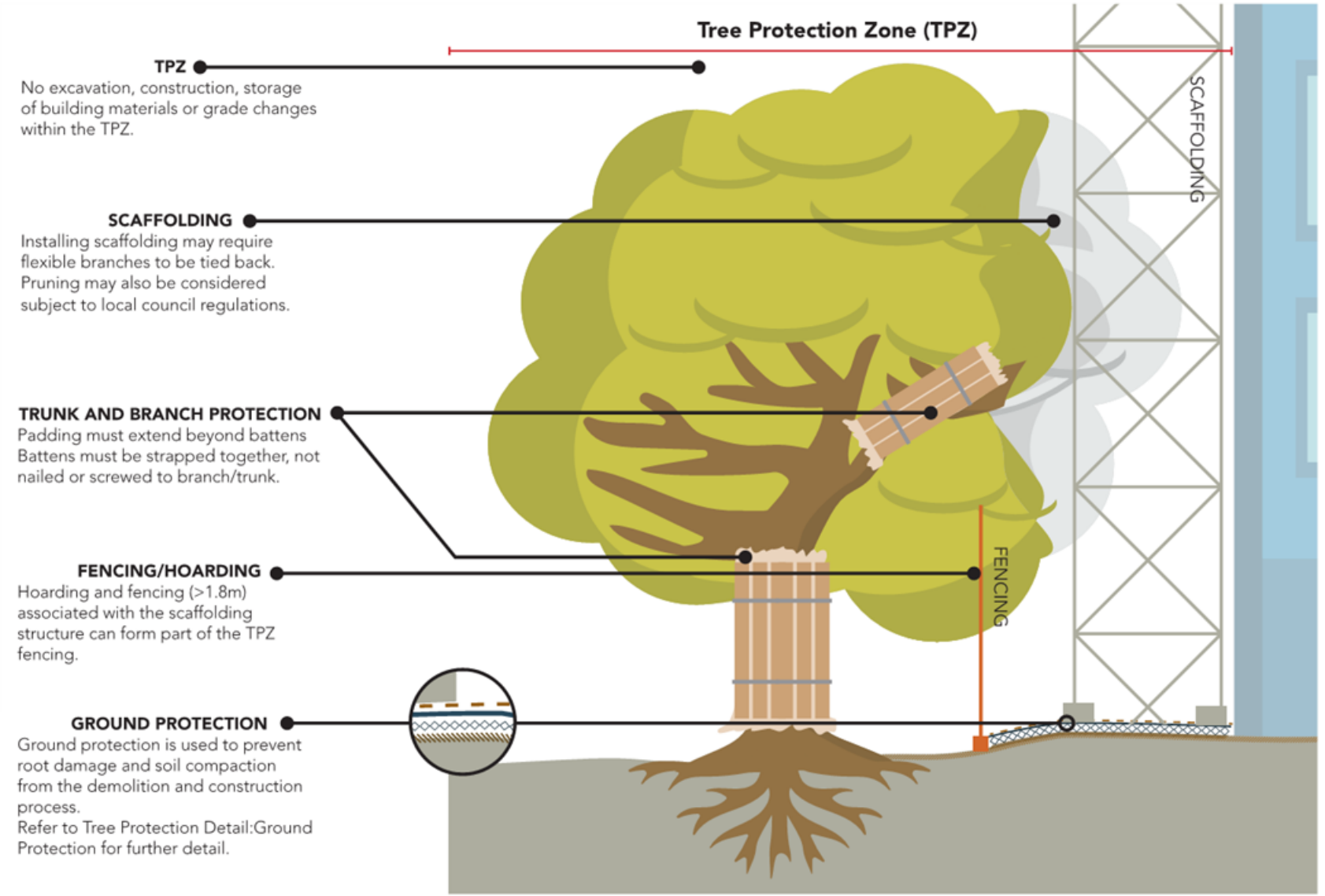
Tree Protection Detail - Scaffolding within TPZ



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13.0 APPENDIX 8 | TREE PROTECTION SPECIFICATION

13.1 Appointment of Project Arborist

13.1.1 Prior to commencement of works a Project Arborist should be engaged to monitor compliance with the protection measures. The Project Arborist will inspect tree protection measures and prepare a compliance certification for the principal certifying authority prior to the release of compliance certification. Contractors and site workers are to receive these specifications at least 3 days prior to commencing works. Contractors and site workers working within the TPZ should sign the site log confirming they have read and understood these specifications prior to commencing works.

13.2 Compliance

13.2.1 The Project Arborist will conduct regular site visits to certify the works are compliant with this specification. A compliance document will be prepared by the Project Arborist following each site inspection. The compliance document will include evidence of compliance with the tree protection measures detailed in this specification.

13.3 Tree & Vegetation Removal

13.3.1 Tree and vegetation removal will be undertaken prior to installation of tree protection measures. Tree removal works should be undertaken in accordance with the *Safe Work Australia Guide for Managing Risks of Tree Trimming and Removal Work* (2016).

13.3.2 Tree and vegetation removal must not damage trees to be retained.

13.4 Tree Protection Zone

13.4.1 Trees that are to be retained must be protected prior to and during construction from works that could negatively impact their health and structural integrity. The following works should not occur within the TPZ unless authorised by the Project Arborist:

- Modification of existing soil levels, excavations and trenching
- Mechanical removal of vegetation
- Movement of naturally occurring rock
- Storage of materials, plant/equipment and building of sheds
- No signage or hoarding shall be fixed to the trees
- Preparation of building materials, refuelling or disposal of waste materials and chemicals
- No lighting of fires
- No pedestrian or vehicular traffic
- Temporary or permanent location of services, or works required for their installation
- Any other activities that may damage the tree

13.6 **Tree Protection Fencing**

13.6.1 The TPZ fencing must be positioned at the perimeter of the TPZ and may be combined to form a single area where the TPZs of multiple trees overlap. The approximate location of the TPZ fencing is outlined in the Arboricultural Impact Assessment with the exact location determined by consultation between the Principal Contractor/Project Manager and the Project Arborist prior to the commencement of works. Fencing may be setback to allow for demolition/construction access and for the installation of pavements only where appropriate ground protection is installed and approved by the Project Arborist. The TPZ fencing must be at least 1.8m above grade and made of wire mesh panels that are supported by concrete feet and fastened together to prevent sideways movement. Tree damage, including any low branches, must be avoided during the installation of the tree protection fencing. The TPZ fencing must include signage to identify the TPZ fencing and include the Project Arborist contact details.

13.7 **Site Management**

13.7.1 Materials, waste storage and temporary services should not be located within the TPZ.

13.8 **Works within the Tree Protection Zones**

13.8.1 In certain situations, works within the TPZ may be authorised by the determining authority. These works must be supervised by the Project Arborist. When working within the TPZ, special care should be taken to avoid damage to the tree's root system, trunks and lower branches.

13.8.2 If roots (>25mm∅) are encountered during excavation, demolition and construction works, these roots must be retained undamaged and advice sought from the Project Arborist. The design and final levels must remain flexible to enable the retention of roots >25mm∅ where deemed necessary by the Project Arborist.

13.9 **Ground Protection**

13.9.1 The movement of machinery should be restricted to existing paved areas or in areas with temporary ground protection (i.e. steel road plates, ground mats) when deemed necessary by the Project Arborist.

13.9.2 Ground protection should be installed as per AS4970 and Appendix 7- *Typical Tree Protection Detail*.

13.9.3 If irrigation is considered necessary, it should be installed first and by a licensed irrigator under the supervision of the Project Arborist with no trenching.

13.9.4 The irrigation should be covered with a layer of geotextile and mulched to a depth of 100mm with a non-toxic product (i.e. woodchips) with no fines.

13.9.5 Once the irrigation, geotextile and mulch are in place then the ground protection boards (steel plates or rumble boards) can in be installed.

13.9.6 Boards should remain in place for the entire build.

13.10 **Trunk & Branch Protection**

13.10.1 If trunk protection is required it should be installed by wrapping the trunk and first order branching with padding (i.e. carpet underlay or 10mm thick geotextile) to a minimum height of 2m. Timber battens (90 x 45mm), spaced at 150mm centres should be strapped together and placed over the padding (Refer to AS4970 for further details).

13.10.2 Branch protection should be installed when considered necessary by the Project Arborist.

13.10.3 Branches should be wrapped with padding (i.e. Ableflex) to provide protection. Where possible, branches should be tied back and construction works to take place around branches (with appropriate branch protection installed as required). If pruning is unavoidable it should be in accordance with AS4373 and supervised by the Project Arborist.

13.11 **Structure & Pavement Demolition**

13.11.1 The Project Arborist should supervise the demolition of existing structures/pavement within the TPZ. Machinery is to be excluded from the TPZ unless operating from existing slabs, pavements or areas of ground protection. Machinery should not contact the tree's roots, trunks, branches and crown.

13.11.2 Existing pavement should be hand lifted to minimise disturbance to the existing sub-base and to prevent damage to tree roots. Wherever possible, the existing sub-base material should remain in situ.

13.11.3 When removing slab sections within the TPZ, machinery must work from the tree outwards to ensure the machinery always remains on the un-demolished section of slab. Wherever possible, footings or elements below grade should be retained to minimise disturbance to the tree's roots.

13.11.4 Structures must be shattered with hand-operated pneumatic/electric breaker before removal when considered necessary by the Project Arborist.

13.11.5 If roots (>25mm∅) are encountered during excavation, demolition and construction works these roots must be retained undamaged and advice sought from the Project Arborist. Exposed roots must be protected from direct sunlight, drying out and extremes of temperature by using 10mm thick jute geotextile fabric. This fabric should be kept moist at all times.

13.11.6 Where the Project Arborist determines that the tree is using underground elements (i.e. footings, pipes, rocks etc.) for support, these elements should be left *in situ*.

13.12 **Pavement/Kerb Installation**

13.12.1 Installation of pavements and sub-base within the TPZ must be supervised by the Project Arborist. New surfaces and sub-base materials should be placed above grade to minimise excavations and retain roots (unless prior root mapping has determined that there are no roots within the area of construction).

13.12.2 If roots (>25mm∅) are encountered during the installation of the new sub-base and surfaces these roots must be retained undamaged and advice sought from the Project Arborist. The design and final levels must remain flexible to enable the retention of roots >25mm∅ where deemed necessary by the Project Arborist.

13.12.3 Compaction of the ground prior to the installation of fill is not permitted.

13.12.4 New sub-base material should be a 20mm no-fines road base (i.e. Benedict Sand & Gravel- Product Code 20NF/RB or similar). Recycled concrete aggregates should not be used to avoid raising soil pH levels.

13.12.5 If required, bedding sand should be washed river sand (no crushed paving blends). The bedding sand should be consolidated with a pedestrian operated plate compactor only. If possible, pavement material should be permeable.

13.12.6 Kerbs within the TPZ should be modified to bridge roots (>25mm∅) unless root pruning is approved and undertaken by the Project Arborist.

13.13 **Underground Services**

13.13.1 The installation of underground services should be located outside of the TPZ. Where this is not possible they should be installed around or below roots (>25mm∅) using either hydrovac or hand excavation and supervised by the Project Arborist.

13.13.2 Boring methods may be used for the installation of services 800mm below grade. Excavations for starting and receiving pits for the boring equipment should be located outside of the TPZ or located to avoid roots (>25mm∅, or determined by the Project Arborist).

13.13.3 Excavations, Root Protection & Root Pruning

13.13.4 Excavations and root pruning within the TPZ must be supervised by the Project Arborist and should be avoided where possible.

13.13.5 No over-excavation, battering, or benching should be undertaken beyond the footprint of any structure unless approved by the Project Arborist. Hand excavation and root pruning along the excavation line should be completed prior to the commencement of mechanical excavation to prevent tearing and shattering damage to the roots.

13.13.6 Roots >25mm∅ should be pruned by the Project Arborist only. Roots <25mm∅ may be pruned by the Principal Contractor. Root pruning should be undertaken with clean, sharp secateurs or a pruning saw to ensure a smooth wound face, free from tears.

13.13.7 Damaged roots should be pruned behind the damaged tissues with the final cut made to the undamaged part of the root.

14.0 APPENDIX 9 | PLATES

a-b) Showing Tree 19 with borer damage to trunk. c) Showing Trees 103 & 104 from Dalmeny Drive. d) Showing Tree 103. e) Showing Trees L&Co 3 & 4. f) Showing Trees 76.77 & 78.

15.0 APPENDIX 10 | MITIGATION MEASURES

Mitigation Number/ Name	When is Mitigation Measure to be complied with	Mitigation Measure	Reason for Mitigation Measure
Project Arborist	Engage at start of construction prior to CC.	Project Arborist to oversee tree protection measures and ensure compliance.	Ensure compliance with tree protection measures to retain trees.
Tree Removal	Prior to demolition	Removal works should be carried out by a practising arborist. The practising arborist should hold a minimum qualification equivalent (using Australian Qualifications Framework) of Level 3 or above in arboriculture or its recognised equivalent. The practising arborist should have a minimum of 3 years of practical experience. Removal works should be undertaken in accordance with the Australian Standard 4373: Pruning of Amenity Trees (2007), Safe Work Australia Guide for Managing Risks of Tree Trimming and Removal Work (2016) and other applicable legislation and codes.	Safe removal of correct trees.
Tree Protection Fencing & sediment control	Prior to demolition	TPZ fencing should be installed parallel to the proposed building line prior to any site works (including demolition) and remain in place for the duration of the construction. Coir logs should be installed inside of the TPZ fencing to prevent material runoff into the TPZ. Materials, waste storage and temporary services should not be located within the TPZ fenced area. If works are required within the TPZ fenced area, then they should be supervised by the Project Arborist. The tree protection measures must be inspected by the Project Arborist prior to the start of site works, including demolition.	Retain trees and mitigate construction impacts.
Hand excavation	During Construction	Where possible, electrical trenching should be conducted manually within TPZ area with conduits placed around large structural roots.	Retain trees and mitigate construction impacts.
Replacement Trees	Post construction	Replacement tree planting should be provided when trees are removed. Replacement trees should be supplied as advanced size stock to help offset the loss of amenity resultant from the tree removals. Replacement planting should be supplied in accordance with Australian Standard 2303: Tree Stock for Landscape Use (2015).	Replace the loss of amenity

16.0 APPENDIX 11 | LIMITATIONS & DISCLAIMERS

16.1 Subject trees were assessed from the ground only and for providing an Arboricultural Impact Assessment and Tree Protection Specification.

16.2 All recommendations in this Arboricultural Impact Assessment and Tree Protection Specification report are based on the observations made on the days of inspection (03.02.2023, 3.11.23, 25.10.25 & 20.2.25). There is no warranty, expressed or implied, that problems or deficiencies relating to the subject trees, or the subject site may not arise in the future.

16.3 Laurence & Co Consultancy takes care to obtain information from reliable sources. However, Laurence & Co Consultancy can neither guarantee nor be responsible for the accuracy of information provided by others. Plans, diagrams, graphs and photographs in this Arboricultural Impact Assessment and Tree Protection Specification report are visual aids only and are not necessarily to scale. This report provides recommendations relating to tree management only. Advice should be sought from appropriately qualified consultants regarding design/construction/ecological/heritage etc. issues.

16.4 This report has been prepared for exclusive use by the client. This report should not be viewed by others or for any other reason outside its intended target or without the prior written consent of Laurence & Co Consultancy. Unauthorised alteration or separate use of any section of the report invalidates the report.

16.5 Many factors may contribute to tree failure and cannot always be predicted. Laurence & Co Consultancy takes care to accurately assess tree health and structural condition. However, a tree's internal structural condition may not always correlate to visible external indicators.

16.6 **Limitation of Liability**. Laurence & Co Consultancy shall be liable only for direct damages that result from negligence or wilful misconduct in the performance of its services. Under no circumstances shall Laurence & Co Consultancy be liable for indirect, consequential, special, or punitive damages, or for damages caused by the client's failure to perform its obligations under law or contract. Laurence & Co Consultancy shall not be liable for and Client shall indemnify Laurence & Co Consultancy from and against all claims, demands, liabilities and costs (including attorneys' and expert fees) arising out of or in any way related to our performance or non-performance of services, including all on-site activities except to the extent caused by Laurence & Co Consultancy's negligence or wilful misconduct. In no event shall Laurence & Co Consultancy's liability exceed the amount paid to Laurence & Co Consultancy by the Client for our professional services (net of reimbursable expenses) and Client specifically releases Laurence & Co Consultancy for any damages, claims, liabilities and costs in excess of that amount.

16.7 Reference should be made to any relevant legislation including Tree Management Controls. All recommendations contained within this report are subject to approval from the relevant Consent Authority.

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