

Project Name: WestConnex New M5

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Document Approval

Rev.	Date	Prepared by	Reviewed by	Recommended by	Approved by	Remarks
00	22/07/2020	Natalie Doueihi	Phil McDonald		David Maytom	
Signa	iture:		à			



Details of Revision Amendments

Document Control

The Project Director is responsible for ensuring that this Plan is reviewed and approved. The Support Services Director (SSD) is responsible for updating this Plan to reflect changes to the Project, legal and other requirements, as required.

Amendments

Any revisions or amendments must be approved by the Project Director before being distributed or implemented.

Revision Details

Revision	Details
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WestConnex New M5



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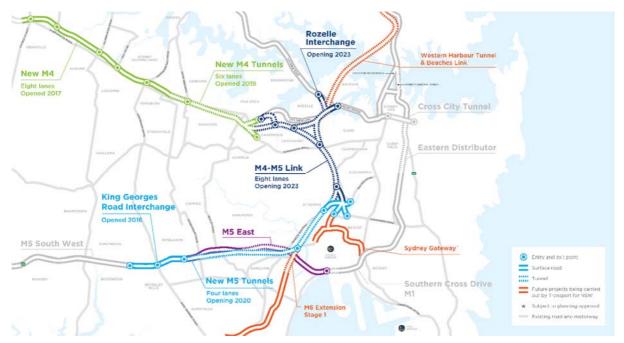


WestConnex New M5

1. Project Description

WestConnex is one the NSW Government's key infrastructure projects which aims to ease congestion, create jobs and connect communities. The 33-kilometre motorway linking Sydney's west and south-west with the Sydney Central Business District, Sydney Airport and Port Botany is being delivered by WestConnex Transurban and Transport for NSW (TfNSW) as a series of separate projects, see Figure 1 below.

Figure 1: WestConnex project overview



The CPB Dragados Samsung Joint Venture (CDS-JV) is responsible for the design and construction of WestConnex Stage 2 – the New M5. The New M5 will run from the existing M5 East corridor at Beverly Hills via a tunnel to St Peters, providing improved access to the airport, south Sydney and Port Botany precincts.

Key features of the New M5 include:

- New twin tunnels which are higher, wider and flatter, which will more than double capacity along the M5 East corridor and provide motorway access to north of Sydney Airport
- A new interchange at an industrial site at St Peters, which reduces the impact on nearby residential areas
- Connections from the interchange to key roads in the area, including Campbell Road/Street, Euston Road and across the canal to Bourke Road
- Widening of Campbell Road/Street and Euston Road through existing road widening reservations
- Western tunnel entry and exit points at Kingsgrove.





2. Scope of Document and compliance with B63

This Tree Replacement Strategy has been prepared by CDS-JV to satisfy Condition of Approval (CoA) B63C. Tbale 1-1 shows where the compliance with condition B63 is addressed in this document or other supporting documents. The purpose of this document is to:

- Identify all relevant tree replacement requirements;
- Summarise the number of trees removed to enable the construction of the project; and,
- Detail the type, size, number and location of replacement trees planted while demonstrating a net increase in the number of replacement trees.

Table 2-1 Compliance with condition B63

B63 Requirements	Compliance
The Proponent must commission an independent experienced and suitably qualified arborist, to prepare a comprehensive Tree Report(s) prior to removing any trees on the periphery and/or outside the construction footprint as identified in the figures in Section 6 of the document referred to in condition A2(b), including any tree(s) removed along Euston Road. The Tree Report may be prepared for the entire SSI or separate reports may be prepared for individual areas were trees are required to be removed. The report(s) must identify the impacts SSI on trees and vegetation within and adjacent to the construction footprint.	Section 4 of this report documents Tree Removal.
B63A The SSI must be designed to retain as many trees as possible. Were trees are to be removed, the Proponent must provide a net increase in the number of replacement trees. Replacement trees must be planted within the SSI boundary or on public land up to 500m from the SSI boundary. Replacement tree plantings can be undertaken beyond 500 meters on public land within the local government area to which the SSI approval applied if no more planting are practicable within and up to 500 meters from the SSI boundary. The location of replacement trees must be determined in consultation with the relevant council(s).	Section 6 of this report documents tree replacement and revegetation.
B63B Replacement trees are to have a minimum post size of 75 litres except where the plantings are consistent with the pot sizes specified in a relevant council's plans / programs/ strategies for vegetation management, street planting, or open space landscaping, or as agreed by the relevant council. In areas not subject to council plans / programs / strategies, pot sizes should be informed through consultation with the relevant council(s).	Section 5 of this report documents pot and plant sizing. Consultation with the relevant council has been documented in section 8 of this report.
B63C The Proponent must submit to the Secretary a report which details the type, size, number and location of replacement trees. The report must demonstrate how any replacement plantings with a pot size less than 75 litres are consistent with the requirements of condition B63B. The report must be submitted to the Secretary prior to operation unless otherwise agreed by the Secretary.	This Tree Removals and Planting report documents the type, size, number and location of replacement trees. A schedule of replacement plantings within the Project Boundary has been provided in Appendix B.
B64 The Proponent must provide a pedestrian pathway and verge along Euston Road and must replace the perimeter plantings along Euston Road frontage of Sydney Park commensurate with the type of plantings impacted by the SSI. Replacement plantings must be in accordance with the post sizes specified in 63B.	Section 7 of this report documents the Sydney Park Boundary.



3. Background

To facilitate construction of the Project, the removal of vegetation, including trees, within and adjacent the construction footprint was required for both operational infrastructure, construction work areas and temporary construction ancillary facilities. The number and species of all trees removed was recorded by CDS-JV in Arboricultural Reports reviewed and approved by the Department of Planning, Industry and Environment (DPIE), prior to tree removal taking place.

In accordance with the definitions of SSI 6788, a '*tree*' is as defined as any tree that:

- is equal to or greater than three metres in height; or
- for a single trunk species, a trunk circumference of 300 millimetres at a height of one metre above ground level; or
- for a multi-trunk species, a trunk circumference exceeding 100 millimetres at a height of one

4. Tree Removal

As stated in Section 3, progressive Arboricultural Reports were prepared prior to tree removal taking place in accordance with MCoA B63. A list of the reports, including a link to their publication on the WestConnex website is provided in Table 1 below.

Table 1: Arboricultural Reports approved by DPIE

Project Area	Report name / number	Doc number	Approved to remove	Confirmed removed
	Bourke Road & Burrows Road	M5N-ES-RPT-LRW-0007	90	90
	Campbell Road/St	M5N-ES-RPT-LRW-0004	122	118
	Euston Road	M5N-ES-RPT-LRW-0006	532	468
	Euston Rd and Munni St (132 kV)	M5N-ES-RPT-LRW-0001	214	214
	St Peters Compound	M5N-ES-RPT-PWD-0002	435	420
	Gardeners/Bourke Sth/ Kent /Bridges 8&9	M5N-ES-RPT-LRW-0017	285	279
	Campbell Rd North: Utilities	M5N-ES-RPT-LRW-0018	49	49
	VMS Pruning	M5N-ES-RPT-LRW-0032	3	3
SPI/LR	McEvoy and Euston	M5N-ES-RPT-LRW-0021	9	9
	St Peters Power alignment	M5N-ES-RPT-PWD-0004	19	1
	33kV supply 71 Bourke Road Alexandria	M5N-ES-RPT-MNE-0001	1	1
	Traffic Intersection Bourke Road	M5N-ES-RPT-LRW-0042	4	4
	Gardeners Road CH100	M5N-ES-RPT-LRW-0049	4	4
	VMS Installation 118 Euston Road	M5N-ES-RPT-LRW-0052	1	1
	Conduit Installation 200 Bourke Road	M5N-ES-RPT-LRW-0053	1	1
	Campbell Road - between Euston & Burrows Road	M5N-ES-RPT-LRW-0058	3	3
	Arncliffe Compound	M5N-ES-RPT-PWD-0002	300	300
	Arncliffe Power alignment	M5N-ES-RPT-PWD-0004	5	4
Arncliffe	Marsh Street Ponds	M5N-ES-RPT-ARN-0012	4	4
	ITS and Footpath, Marsh Street Interchange and	M5N-ES-RPT-ARN-0030	22	2
	Bexley Compounds	M5N-ES-RPT-PWD-0002	40	22
Bexley	Construction Compound C5 (Bexley Road South)	M5N-ES-RPT-BLD-0001	3	3
Kingsgrove	Kingsgrove (C1 and C2) (surface works)	M5N-ES-RPT-PWD-0002	424	424
Ningsgrove	CRCIBF, m5 corridor and access points to C1 and C3	M5N-ES-RPT-WSW-0003	3239	3097

M5N-ES-PLN-PWD-0060

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Project Area	Report name / number	Doc number	Approved to remove	Confirmed removed
	Kingsgrove Tunnels (C1 and C3)	M5N-ES-RPT-WSW-0006	55	55
	WSW SW of Kindalin	M5N-ES-RPT-WSW-0009	109	109
	WSW Wolli Creek Near Beverly Grove	M5N-ES-RPT-WSW-0010	2	1
Project Wide	Tolling Gantries Kingsgrove Road to St Peters	M5N-ES-RPT-PWD-0035	155	155
TOTAL			6130	5841

A total of 28 Arboricultural Reports have been prepared identifying a total of 6,130 trees approved for removal.

The Arboricultural Reports assessed a worst-case scenario in which a conservative approach was adopted when determining whether a tree would require removal for construction of the SSI. During construction on the SSI periphery, where possible, efforts are made to retain trees, even if the tree was approved for removal.

Examples of tree retention include:

- retention of the established Fig Trees within Simpson Park, St Peters by realigning the shared user path and dedicated cycleway along Campbell Street further from the trees.
- retention of trees within Camdenville Basin by providing underground stormwater detention beneath Campbell Street, St Peters, thus negating the need to excavate the basin and remove the trees therein.
- retention of the established Fig Trees along Euston Road, Alexandria by
 - o utilising Central drainage within the median
 - o Retain kerb and channel on the eastern side of Euston Rd.
 - Pavement rehabilitation only (in lieu of full depth reconstruction)
 - o Adjust the cross fall to limit impact on Sydney Park side
 - o Crown the south bound carriageway to retain the current drainage catchment area
 - Reduce median width to 0.6m and amend north bound alignment
 - retention of trees along Sydney Park Road, Alexandria by-
 - Re-use existing drainage infrastructure
 - Pavement rehabilitation only (in lieu of full depth reconstruction)
 - Limit extent of works on Sydney Park Rd as much as possible
- retention of trees along the M5 Linear Park, Kingsgrove by 142

Whilst the total number of trees approved for removal was 6,130, the number of trees actually removed is 5,841

The retention of these trees, despite being approved for removal, represents a significant effort on the part of TfNSW, the M5 Asset Trustee and CDS-JV to work collaboratively with councils and other stakeholders to minimise impacts to high retention value trees.

The measures implemented to retain trees demonstrates compliance with the requirement of B63A to *'retain as many trees as possible.'*

5. Modification

The original MCoA B63 and B64 requirements and MCoA B63 and B64, as amended, are provided at Appendix A. The original MCoA B63 required replacement trees to '*have a minimum pot size of 75 litres*.' TfNSW sought to modify MCoA B63 to remove the requirement for replacement trees to have a minimum pot-size of 75-litres, while retaining all other requirements and committing to substantially increasing the number of trees to be replanted beyond the minimum requirement of a 'net increase'.

It is considered that the intent of the specification of 75L pots was to ensure that, from both an ecological and amenity perspective, revegetated areas started at a point where they will have a more immediate impact than using seed, tube stock or small volume pots.

Discussions with the Project's horticultural consultant and urban designers indicated that the use of various pot sizes at the time of planting, in addition to careful species selection can result in a more naturalist style of planting arrangement at the time of installation. As the landscape establishes, the varying growth heights, structures and forms of planting add greater interest. As vegetation matures, plantings progress from their first adult form to mature trees supported by associated understorey layer/groundcover.

To achieve this layered affect, the species size was recommended to be varied at the time of planting. Optimum planting sizes to create a well-balanced display in community situations should vary and, for instant impact, some 75L plantings were recommended to be included. Use of plant sizing varying from tube stock and a range of pot sizing from 150mm up to 200I is widely accepted. A 'tree' can come from tube stock or a 150mm pot, with trees generally having a single self-supporting main stem.

In the case of the tree replacement strategy, a tree (as opposed to a shrub or groundcover) will be determined by the species listed in accordance with the relevant specification.

From a horticultural perspective, it is a well-evidenced fact that smaller plants establish more readily than larger ones, requiring less maintenance and adjusting more readily to changed environmental conditions, such as predominant wind direction and orientation to the sun. Additionally, larger plants can be more susceptible to developing inferior roots and structural growth defects due to being held as containerised stock for too long.

In addition, there is a spatial issue relating to the area of land required for the provision of all replacement trees in 75L pots. The Project's horticulturalist suggests that an area of between 9m2 and 25m2 is recommended for one 75L pot (and although dependent on species, trees of these size would be expected to have a height of four to five metres).

6. Tree Replacement and Revegetation

The landscape plantings at SPI have been adjusted to recent landform changes to retain the maximum extent of landfill material on site as possible.

As detailed in Section 4, a total of 5,841 trees were removed for the project works.

In accordance with B63A, a total number of 26,185 new trees have been planted within the Project Boundary as part of the project works. Refer to Appendix B for a schedule of replacement plantings across the project.

The New M5 planting design, includes over 105 species of trees, shrubs and ground layer species, which drew upon the characteristics and species profiles of plant communities that once occupied each site and surrounding region. Over time, the varying growth heights, structures and forms of planting will add greater interest and deliver a more robust urban design outcome. The use of varying pot sizes is standard practise on TfNSW projects which, subject to good planting layout at the time of installation, creates well-proportioned and balanced landscape settings.

In terms of overall revegetation program, over 900,000 trees, shrubs and plants will be planted within the SSI boundary. Of this figure, 690,000 will be planted at the former Alexandria Landfill (now St Peters Interchange [SPI]), a significant enhancement contributing to the overall remediation and regeneration of this site.

7. Sydney Park Boundary (MCoA B64)

The original design of Euston Road between Sydney Park Road and Campbell Street consisted of three lanes in each direction with a central future right turn lane to facilitate right turn movements for both northbound and southbound vehicles. The lane widths were 3.5m and 4.0m for the kerbside lanes.

As per the original design, there was no room for planting between the edge of the footpath (extent of works) and the Project Boundary along this length of Euston Road.

In consultation with TfNSW, the Project footprint was minimised to the extent possible, per MCoA B61(a)(vii). Batters and stepped retaining walls were not included in the design as these proposals would extend the Project works further into Sydney Park, beyond the TfNSW temporary and permanent acquisition areas.

During the design development phase, the design for Euston Road was further refined. Lane widths on Euston Road were reduced from 3.5m and 4.0m kerbside to 3.3m with 3.8m kerbside (when measured to face of kerb) resultant of consultation between TfNSW and City of Sydney Council and in accordance with MCoA B47. The central future right-hand turn lane was also removed. Combined, these road alignment and geometry changes reduced the projects impact on Sydney Park.

The design changes facilitated the planting of 64 Paperbarks within the Project Boundary adjacent Sydney Park. These trees are '*commensurate with the type of planting impacted by the SSI*' as per the requirement of MCoA B64. Maps outlining the design changes are outlined at Appendix C.

TfNSW have also funded City of Sydney Council to plant 179 trees along the *Euston Road frontage of Sydney Park* in accordance with MCoA B64 and the facilitation of tree planting on public land within 500m from the SSI boundary as contemplated by MCoA B63A.

8. Consultation

Consultation has been undertaken with the Councils as part of the Urban Design Review Panel (UDRP) process and development of the Urban Design and Landscape Plan (UDLP). The landscape plans within Council areas essentially remain unchanged in the final design with only minor amendments due to in ground services and a minor extent of species substitution taken from the Council species palette. Changes have occurred within the controlled motorway space within SPI due to revised batter slopes associated with the landfill closure. These changes result in the use of species palettes already adopted within the SPI landscape design whilst still maintaining the species diversity. The implemented changes are therefore considered minor and consistent with the species content discussed in the UDRP and UDLP concept design development.

9. Conclusion

The SSI has been designed and constructed to retain as many trees as possible. Trees that were directly impacted by the works, and where their removal was required, have been assessed in accordance with MCoA B63.

Independent arborists have been commissioned to prepare reports to assess the impact to trees which did require removal including visual assessment, consideration of possible redesign of the project works to mitigate impacts and measures to minimise damage and protection of trees in accordance with MCoA B63 (A), (B) and (C). These tree reports have been progressively prepared and submitted to the Department of Planning, Industry and Environment (DPIE) throughout the detailed design of the project works for review, comment and approval prior to removal, impact or damage to the trees. Refer to section 2 for a schedule of the approved tree reports which have also been made publicly available on the project website.

Where trees have been removed due to the direct impact of the project works, replacement trees have been included in the landscape design either within or in the close proximity of the SSI boundary including along Euston Road where feasible and reasonable. The landscape design for the replacement trees has been developed in consultation with the Urban Design Review Panel (UDRP) with input from the respective Council representatives. The replacement tree strategy and associated landscape design is documented in the Urban Design and Landscape Plan (UDLP). The UDRP endorsement of the UDLP is demonstrated in section 1.8 of the UDLP.

The final design of project works consists of a total number of 6,130 trees approved for removal in accordance with the approved DPIE tree removal reports. Through tree protection measures implemented during the construction of the SSI, the total number of trees actually removed is 5,841. A total number of 26,185 new trees have been planted as part of the project works. Refer to Appendix B for a schedule of replacement plantings across the project.

The New M5 has provided a net increase of 20,344 trees, including perimeter plantings along the Euston Road frontage of Sydney Park, thereby satisfying the requirement of B63A, B63B and B63C.

Appendix A: MCoA B63 & B64 Original and MCoA B63 & B64 as Amended

SSI 6788 – WestConnex New M5_Instrument of Approval (MCoA B63 & B64 original)

Tree Removals and Plantings

- B63 The SSI must be designed to retain as many trees as possible and provide a net increase in the number of replacement trees. The Proponent must commission an independent experienced and suitably qualified arborist, to prepare a comprehensive Tree Report(s) prior to removing any trees on the periphery and/or outside the construction footprint as identified in the figures in Section 6 of the document referred to in condition A2(b), including any tree(s) removed along Euston Road. The Tree Report may be prepared for the entire SSI or separate reports may be prepared for individual areas where trees are required to be removed. The report(s) must identify the impacts of the SSI on trees and vegetation within and adjacent to the construction footprint. The report(s) must include:
 - (a) a visual tree assessment with inputs from the design, landscape architect, construction team;
 - (b) consideration of all options to amend the SSI where a tree has been identified for removal, including realignment, relocation of services, redesign of or relocation of ancillary components (such as substations, fencing etc.) and reduction of standard offsets to underground services; and
 - (c) measures to avoid the removal of trees or minimise damage to existing trees and is to ensure the health and stability of those trees to be protected. This includes details of any proposed canopy or root pruning, excavation works, site controls on waste disposal, vehicular access, storage of materials and protection of public utilities.

In the event that trees are to be removed, then replacement trees are to be planted within, or in close proximity to, the SSI boundary, including along Euston Road where feasible and reasonable The location of the trees must be determined in consultation with the relevant council(s). The replacement trees are to have a minimum pot size of 75 litres. A copy of the report(s) must be submitted to the Secretary for approval prior to the removal, damage and/or pruning of any trees, including those affected by site establishment works. All recommendations of the report must be implemented by the Proponent, unless otherwise agreed by the Secretary.

B64 The Proponent must provide a cycleway along Euston Road consistent with proposal in the document referred to in condition A2(b) and must replace the perimeter plantings along the Euston Road frontage of Sydney Park commensurate with type of plantings impacted by the SSI. Replacement plantings must be in accordance with the pot sizes specified in condition B63.

SSI 6788 – WestConnex New M5 MOD 1-6 Consolidated Approval (MCoA B63 & B64 as amended)

Tree Removals and Plantings

- B63 The Proponent must commission an independent experienced and suitably qualified arborist, to prepare a comprehensive Tree Report(s) prior to removing any trees on the periphery and/or outside the construction footprint as identified in the figures in Section 6 of the document referred to in condition A2(b), including any tree(s) removed along Euston Road. The Tree Report may be prepared for the entire SSI or separate reports may be prepared for individual areas where trees are required to be removed. The report(s) must identify the impacts of the SSI on trees and vegetation within and adjacent to the construction footprint. The report(s) must include:
 - (a) a visual tree assessment with inputs from the design, landscape architect, construction team;
 - (b) consideration of all options to amend the SSI where a tree has been identified for removal, including realignment, relocation of services, redesign of or relocation of ancillary components (such as substations, fencing etc.) and reduction of standard offsets to underground services; and
 - (c) measures to avoid the removal of trees or minimise damage to existing trees and is to ensure the health and stability of those trees to be protected. This includes details of any proposed canopy or root pruning, excavation works, site controls on waste disposal, vehicular access, storage of materials and protection of public utilities.

A copy of the report(s) must be submitted to the Secretary for approval prior to the removal, damage and/or pruning of any trees, including those affected by site establishment works. All recommendations of the report must be implemented by the Proponent, unless otherwise agreed by the Secretary.

- B63A The SSI must be designed to retain as many trees as possible. Where trees are to be removed, the Proponent must provide a net increase in the number of replacement trees. Replacement trees must be planted within the SSI boundary or on public land up to 500 metres from the SSI boundary. Replacement tree plantings can be undertaken beyond 500 metres on public land within the local government areas to which the SSI approval applies if no more plantings are practicable within and up to 500 metres from the SSI boundary. The location of replacement trees must be determined in consultation with the relevant council(s).
- B63B Replacement trees are to have a minimum pot size of 75 litres except where the plantings are consistent with the pot sizes specified in a relevant council's plans / programs / strategies for vegetation management, street planting, or open space landscaping, or as agreed by the relevant council. In areas not subject to council plans / programs / strategies, pot sizes should be informed through consultation with the relevant council(s).

Note:

- For the purposes of condition B63A and B63B, consultation with relevant council(s) encompasses consultation undertaken with those councils on the Urban Design and Landscape Plan required by condition B61, and any agreements reached on replacement pot sizes during consultation.
- B63C The Proponent must submit to the Secretary a report which details the type, size, number and location of replacement trees. The report must demonstrate how any replacement plantings with a pot size less than 75 litres are consistent with the requirements of condition B63B. The report must be submitted to the Secretary prior to operation unless otherwise agreed by the Secretary.

Note:

- The requirements of conditions B63A, B63B and B63C do not apply to tree planting initiatives implemented under condition B66.
- B64 The Proponent must provide a pedestrian pathway and verge along Euston Road and must replace the perimeter plantings along the Euston Road frontage of Sydney Park commensurate with the type of plantings impacted by the SSI. Replacement plantings must be in accordance with the pot sizes specified in condition 63B.



Appendix B: Schedule of replacement plantings within the Project Boundary

	Palms	200L	75L	25L	200MM	150MM	TUBE	TOTAL
Western Interchange		10	627	859	353	77814	89963	169626
Bexley Services			33	47		6816		6896
Arncliffe Services			41			5331		5372
Local Roads			000			40050	4.400	45400
Campbell		8	329			40352	4439	45128
Euston			6			9711		9717
Gardeners			104			19592		19696
SPI - Tree Schedule	110	5						
	110	5						
SPI - Plants				323	631	421961	268056	690971
Sub-totals	110	23	1140	1229	984	581577	362458	947521
M5N PROJECT WIDE QUANTITIES	- Tree Species	Only						
M5N PROJECT WIDE QUANTITIES	- Tree Species Palms	Only 200L	75L	25L	200MM	150MM	TUBE	TOTAL
			75L	25L	200MM	150MM	TUBE	TOTAL
			75L 627	25L 859	200MM 353	150MM 2953	TUBE 3166	TOTAL 7968
LOCATION Western Interchange		200L	627			2953		7968
LOCATION		200L						
LOCATION Western Interchange Bexley Services		200L	627 33			2953 89		7968
LOCATION Western Interchange		200L	627			2953		7968
LOCATION Western Interchange Bexley Services Arncliffe Services		200L	627 33			2953 89		7968
LOCATION Western Interchange Bexley Services Arncliffe Services Local Roads		10	627 33 41			2953 89 331		7968 122 372
LOCATION Western Interchange Bexley Services Arncliffe Services Local Roads Campbell		200L	627 33 41 329			2953 89		7968 122 372 746
LOCATION Western Interchange Bexley Services Arncliffe Services Local Roads Campbell Euston		10	627 33 41 329 6			2953 89 331 409		7968 122 372 746 6
LOCATION Western Interchange Bexley Services Arncliffe Services Local Roads Campbell Euston		10	627 33 41 329			2953 89 331		7968 122 372 746
LOCATION Western Interchange Bexley Services Arncliffe Services Local Roads		10	627 33 41 329 6			2953 89 331 409		7968 122 372 746 6
LOCATION Western Interchange Bexley Services Arncliffe Services Local Roads Campbell Euston Gardeners	Palms	200L 10 8	627 33 41 329 6	859	353	2953 89 331 409 80	3166	7968 122 372 746 6 184

PROJECTWIDE			
TREE LIST			
	TREE SPECIES	COMMON NAME	
	Angophora costata	Sydney Red Gum	
	Araucaria cunninghamii	Hoop Pine	
	Backhousia myrtifolia	Grey Myrtle	
	Corymbia maculata	Spotted Gum	
	Cupaniopsis anacardiodes	Tuckeroo	
	Eucalyptus fibrosa	Iron Bark	
	Eucalytpus longifolia	Wooly butt	
INDIVIDUAL TREES	Eucalyptus molucanna	Grey Box	
	Eucalyptus paniculata	Grey Ironbark	
	Eucalyptus saligna	Sydney Blue Gum	
	Ficus hillii	Hills Fig	
	Ficus rubiginosa	Port Jackson Fig	
	Lophostemon confertus	Brush Box	
	Melaleuca quinquenervia	Paperbark	
	Syncarpia glomulifera	Turpentine Tree	
	Acmena smithii	Lilly Pilly	
	Allocasuarina littoralis	Black She-oak	
	Allocasuarina torulosa	Forest She-oak	
	Banksia integrifolia	Coast Banksia	
	Banksia marginata	Silver Banksia	
	Callistemon salignus	Bottlebrush	
	Casuarina glauca	She-oak	
	Ceratopetalum gummiferun	NSW Christmas Bush	
	Cupaniopsis anacardiodes	Tuckeroo	
	Elaeocarpus reticulatus	Blueberry Ash	
TREES IN PLANTING MIXES	Glochidion fernandi	Cheese Tree	
TREES IN PLANTING MIXES	Livistona australis	Cabbage Tree Palm	
	Melaleuca armillaris	Bracelet Honey Myrtle	
	Melaleuca decora	White Feather Honey Myrtle	
	Melaleuca ericifolia	Swamp Paperbark	
	Notolea longifolia	Mock Olive	
	Pittosporum undulatum	Sweet Pittosporum	
	Syzygium leuhmannii	Riberry	
	Syzygium paniculatum	Magenta Cherry	
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Appendix C: Euston Road design changes in accordance with MCoA B47 and B64

WestConnex New M5 Tree Removals and Plantings SAMSUNG DRAGADOS CPB SAMSUNG C&T LEGEND BOUNDARIES - EXISTING CADASTRAL * _____ ----- PLANTING AREA BOUNDARY EXISTING FEATURES CONTOURS (1m INTERVAL) EXISTING TREES TO BE RETAINED \odot m EXISTING VEGETATION TO BE RETAINED FROM ST PETERS TO ALEXANDRIA GROUND TREATMENT HERITAGE BRICK PAVING GRAVEL SURFACE PLANTING AREAS MASSED PLANTING MASSED PLANTING ON STRUCTURE N 2150 ឆ 2225 2250 TURF 9690000 TURF ON STRUCTURE WOC BASIN / SWALE PLANTING \odot TREE PLANTING THA. THE TT NTC 1/2 ------ 77 Λ (\cdot) TREE (200L) $\overline{\odot}$ 18 TREE (75L) FZ 138 Lomandra shara @ 6/m2 120 Lomandra shara @ 6/m2 ROAD GEOMETRY (REFER PACKAGES RD-7000/7005/7010) +∮ TUNNEL FILL EMBANKMENT / CUT EMBANKMENT 149-Lomandra shara 139 Lomandra shara 2 ROW5 @ 0.4m CTS 2 ROW5 @ 0.4m CT5 CYCLEWAY/PATH M7A(DRIVEWAY/PARKING BAY FUTURE SHARED PATH BY OTHERS (INDICATIVE ONLY) ROAD FURNITURE (REFER PACKAGES RD-7000/7005/7010) RIGID SAFETY BARRIER/KERB 140 Hibbertia scanders Hibbertia scandens — / — EXISTING FENCE TO BE RETAINED @ 4/m2 Crinum pedunculatum @ 4/m2 Crinum pedunculatur S ______ BOUNDARY FENCE (PROPOSED) Ś. 20 @ 2/m2 @ 2/m2 RETAINING WALL D→ ROAD LIGHT DRAINAGE (REFER PACKAGES DR-7025/7030/7035) (|||||||||||- GRATED DRAIN T1 TURE T1 TURF T1 TURE T1 TURF T1 TURF T1 TURE T1 TURE STORMWATER HEADWALL / STORMWATER PIT GROSS POLLUTANT TRAP \cap ----------------------------------BERM DRAIN SIGN POSTING (REFER DESIGN PACKAGE R5-7055) YMY SIGN POSTS ITS (REFER DESIGN PACKAGE IT-7071) ITS COMMS AND ELEC PIT LOCATION GANTRY STRUCTURE HOLD UD-7201 EXTENT OF EARTHWORKS BATTERS AND PROVISION 1 OF TREES AND LANDSCAPE WITHIN SYDNEY PARK 01 02 03 04 05 06 07 08 09 10 TO BE CONFIRMED SUBJECT TO FURTHER CONSULTATION WITH CITY OF SYDNEY COUNCIL. RETENTION OF EXISTING TREES TO BE CONFIRMED 3 KEY PLAN SUBJECT TO ARBORICULTURAL ASSESSMENT 1:500

Figure 10-65 - Euston Road - Landscape Design - Sheet 2 of 13 - 1:500

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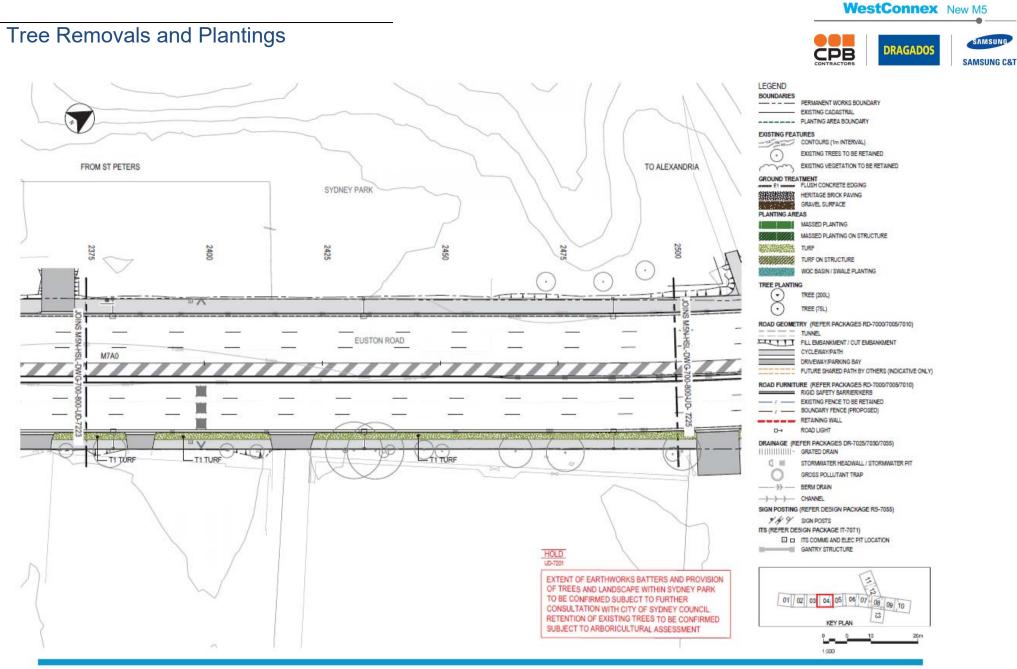
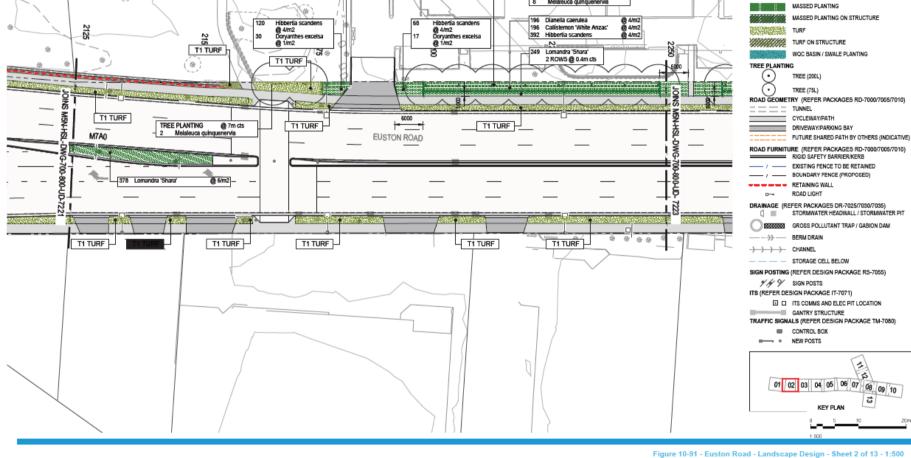


Figure 10-67 - Euston Road - Landscape Design - Sheet 4 of 13 - 1:500

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Tree Removals and Plantings LEGEND FROM ST PETERS TO ALEXANDRIA (@) TREE PLANTING @ 7m cts Melaleuca guingu 100 Hibbertia scandens @ 4/m2 Doryanthes excelsa @ 1/m2 Hibbertia scandens @ 4/m2 Doryanthes excelsa @ 1/m2 196 Dianella caerulea 120 68 @ 4/m2 @ 4/m2 2125 196 Callistemon 'White Anzac' 392 Hibbertia scandens T1 TURF N 2250 20 249 Lomandra 'Shara' g T1 TURF 2 ROWS @ 0.4m cts -6000 1.1 -----81 ^



BOUNDARIES

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m GROUND TREATMENT FLUSH CONCRETE EDGING

PLANTING AREAS

EXISTING FEATURES

- - - PERMANENT WORKS BOUNDARY - EXISTING CADASTRAL ---- PLANTING AREA BOUNDARY

EXISTING TREES SHOWN INDICATIVELY REFER TO SURVEY AND ABBORIST REPORT

EXISTING VEGETATION TO BE RETAINED

HERITAGE BRICK PAVING GRAVEL SURFACE

CONTOURS (1m INTERVAL)

SAMSUNG DRAGADOS CPB SAMSUNG C&T

CPB DRAGADOS

468

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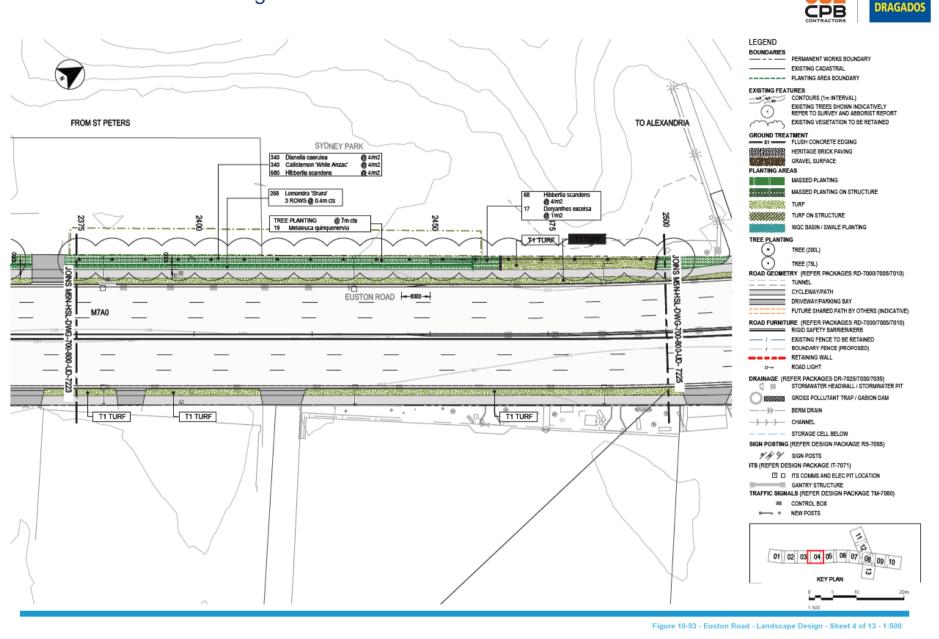
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SAMSUNG

SAMSUNG C&T