BULMANS ROAD

High Street and Bulmans Road Intersection

Landscape Plans

BR UPGRADE DUPLICATION - STAGE 2						
DRAWING	DESCRIPTION					
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LP-ST2-0030	PLANTING SCHEDULE					

DETAILED DESIGN

MELTON

Philip Liston

Landscape Consultants

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BULMANS ROAD - STAGE 2 High Street and Bulmans Road Intersection

COVER & CONTENTS SHEET

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Design Intent

The intent of the landscape design for the Bulmans Road Upgrade Project is to mitigate and minimise where possible the impact of the road duplication to the landscape, residents and users. The design aims to merge with and be sympathetic to the existing landscape of the road corridor and adjacent context.

A key design aim is to continue the streetscape planting character and design intent along Bulmans Road with particular emphasis on avenue tree planting within the median and verges where space permits.

Grassed medians area proposed where they are wide enough to be maintained by mowing. Narrow areas are generally massed planting out with feature low groundcovers and tussocks.

Proposed tree planting within the median and along verges are not proposed to be protected by barriers as agreed to by relevant stakeholders.

Low massed feature tussock planting is included at median and outer separator noses where appropriate, consistent with the concept design. Steep batters that cannot be mown are proposed to be massed planted tussocks.

Suggested Plant Species

Low feature shrubs are proposed within the outer separator as shown on the concept plans.

Planting is designed to provide improved amenity and consistency with other landscaped sections along Bulmans Road and surrounding streetscapes. The planting proposed is simple and robust and once established should provide a relatively low maintenance landscape.

Design Process

The landscape design is consistent with Councils landscape concept design and has been adjusted as necessary to integrate the landscape with the civil and drainage design, existing/proposed services and other site features. Species selection and composition is also informed by the Councils landscape concept design.

The landscape preliminary design has been coordinated with and informed by the Civil Designers and Council and incorporates comments from these and other stakeholders where appropriate.

Code	Scientific Name	Common Name	Pot Size	Mature size (H x W) M.	Density plants/m2		
	Avenue Trees Proposed						
Cmac	Corymbia maculata	Spotted Gum	45 Litre	30.0 x 10.0	As Shown		
	Proposed Sheoaks						
Aver	Allocasuarina verticillata	Drooping Sheoak	45 Litre	7.0 x 4.0	As Shown		
Mix A	Low feature shrubs/groundcovers	•	•				
	Atriplex semibaccata	Australian Saltbush	Tubestock - 0.2L.	Spreading	2		
Mix B	Low feature shrubs/groundcovers		•				
	Myoporum parvifolium	Creeping Boobialla	Tubestock - 0.2L.	Spreading	2		
Mix C	Low feature shrubs/groundcovers	•					
	Carpobrotus glaucescens "Aussie Rambler"	Pigface	Tubestock - 0.2L.	Spreading	2		
Mix D	Low feature tussocks						
	Lomandra longifolia 'Tanika'	Tanika Lomandra	Tubestock - 0.2L.	0.7 x 0.6	4		
Mix E	Native groundcovers/tussocks	•	•				
	Correa reflexa nummularifolia	Correa	Tubestock - 0.2L.	Spreading	4		
	Ficinia nodosa	Knobby Club-rush	Tubestock - 0.2L.	0.6 x 0.6	4		
	Lomandra longifolia 'Tanika'	Tanika Lomandra	Tubestock - 0.2L.	0.7 x 0.6	4		
Mix F	Batter replacement planting mix						
	Correa reflexa nummularifolia	Correa	Tubestock - 0.2L.	Spreading	4		
	Ficinia nodosa	Knobby Club-rush	Tubestock - 0.2L.	0.6 x 0.6	4		
	Lomandra longifolia 'Tanika'	Tanika Lomandra	Tubestock - 0.2L.	0.7 x 0.6	4		
	Atriplex semibaccata	Australian Saltbush	Tubestock - 0.2L.	Spreading	4		

GENERAL NOTES

DETAILED DESIGN

G C PL 27052022 Detailed Design
B PL 13052022 Detailed Design
A PL 14032022 Preliminanry Design
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MELTON
Philip Liston
Landscape Consultants

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BULMANS ROAD - STAGE 2 High Street and Bulmans Road Intersection

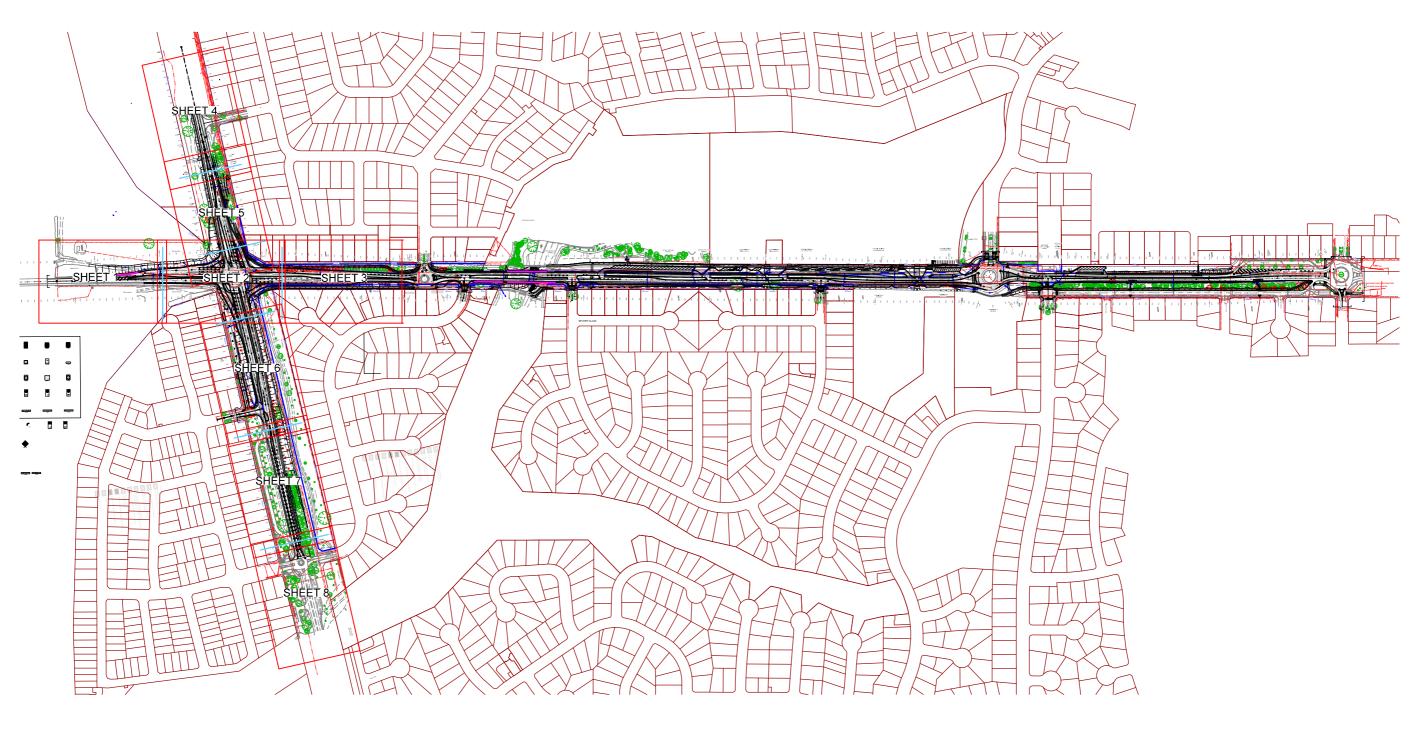
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WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATIONS OF UNDERGROUND/OVERHEAD SERVICES
ARE APPROXIMATE ONLY AND THEIR EXACT POSITION
SHOULD BE PROVEN ON SITE. NO GUARANTEE IS
GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

CAUTION

THIS DRAWING IS BASED ON SURVEY THAT IS INCOMPLETE AND NOT VERIFIED. THE EXISTING SURFACE MAY VARY FROM THAT INDICATED AND SOME FEATURES MAY NOT BE SHOWN.

GENERAL NOTES

С	PL	27052022	Detailed Design		
В	PL	13052022	Detailed Design		
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DETAILED DESIGN

BULMANS ROAD - STAGE 2 High Street and Bulmans Road Intersection

KEY PLAN

CONTRACT NO. SHEET NO.

Trees to be retained

Trees to be removed

Proposed native avenue trees

Proposed Sheoaks

Mix A - Low feature shrubs/groundcovers

Mix B - Low feature shrubs/groundcovers

Mix C - Low feature shrubs/groundcovers

Mix D - Massed low tussocks

Mix E - Native groundcovers/tussocks

Mix F - Batter replacement planting

Grassing

Note: All disturbed areas that are not mulched planting beds or pavement shall be grassed in accordance with VicRoads standard specification Section 720.

Grass mix to be 50:50 Kikuyu/Rye in areas less than 3.0m wide. All other areas shall be rolled Kikuyu turf.

GENERAL NOTES

SERVICES (Refer to civil packages for details)

ABANDONED UNDERGROUND DRAINS

EXISTING SURFACE DRAINAGE (SWALES)

EXISTING OVERHEAD POWER

EXISTING UNDERGROUND POWER

EXISTING TELECOM

EXISTING SEWER

EXISTING SEWER

EXISTING GAS

EXISTING GAS

EXISTING WATER

PROPOSED ELECTRICAL AND ITS CONDUIT (to be included in final design)

EXISTING TRANSMISSION TOWER

EXISTING UNDERGROUND DRAINS

PROPOSED UNDERGROUND DRAINAGE AND PITS
PROPOSED GUARD FENCE

PROPOSED CONCRETE PATHS/SURFACES

ROW BOUNDARY (PROPOSED - SPECIFIED CONTROL OVERLAY SCO)

ROW BOUNDARY (EXISTING - SPECIFIED CONTROL OVERLAY SCO)

EXISTING/PROPOSED SIGNS

EXISTING/PROPOSED LIGHTING (to be included in final design)

PROPOSED DRAINAGE CULVERTS

PROPOSED FENCING

C PL 27052022 Detailed Design
B PL 13052022 Detailed Design
A PL 14032022 Preliminanry Design
ISSUE APP'D DATE AMENDMENT

MELTON
Philip Liston

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DETAILED DESIGN

BULMANS ROAD - STAGE 2 High Street and Bulmans Road Intersection

LEGEND

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PLANTING AREAS ARE TO BE SET OUT ON SITE BY SCALING OFF THE DRAWINGS AND IN ACCORDANCE WITH ANY SPECIFIED PLANTING OFFSET DIMENSIONS AND/OR DRAWING NOTES.

WHERE A MIX OF PLANT SPECIES IS SPECIFIED, ENSURE THAT A TOTALLY RANDOM PLACEMENT OF THE DIFFERENT SPECIES IS ACHIEVED WITHIN THE DESIGNATED PLANTING AREA. PLANTING DENSITIES AND PROPORTIONS HAVE BEEN SPECIFIED TO ACHIEVE COVERAGE WITHIN THE PLANTING AREAS ONCE PLANTS HAVE REACHED MATURE SIZE.

SET OUT OF PLANTING AREAS TO BE INSPECTED BY SUPERINTENDENT PRIOR TO GROUND PREPARATION

WHERE INDIGENOUS PLANT SPECIES ARE SPECIFIED, THE CONTRACTOR SHALL ENSURE THAT PLANT STOCK IS OF LOCAL PROVENANCE. I.E. WITHIN 25KM OF THE PROJECT SITE.

WHERE EXISTING VEGETATION IS TO BE RETAINED:-

- VEGETATION IS TO BE PROTECTED WITH AN APPROVED TEMPORARY BARRIER.
- NO GROUND RIPPING OR CULTIVATION IS TO BE UNDERTAKEN IN THESE AREAS.
- CARE MUST BE TAKEN WHEN GROUND PREPARATION OR LANDSCAPE WORKS ARE UNDERTAKEN IN ADJOINING AREAS. WORKS ARE SUBJECT TO ON SITE CONFIRMATION AND APPROVAL.
- ARBORIST TO PROVIDE ADVICE ON TREE PROTECTION ZONES WHERE REQUIRED.

LANDSCAPE WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH VICROADS SPECIFICATION SECTION 720 - LANDSCAPE WORKS.

LANDSCAPE WORKS WITHIN WATERWAYS SHALL BE UNDERTAKEN IN ACCORDANCE WITH RELEVANT WATER AUTORITIES REQUIREMENTS.

WHEREVER POSSIBLE MULCH DERIVED FROM SITE TREE REMOVAL SHALL BE USED OVER PLANTING AREAS. ENSURE MULCH IS WEED FREE.

ALL DISTURBED GROUND OUTSIDE OF PROPOSED MULCHED PLANTING AREAS AND PAVED AREAS SHALL BE REINSTATED WITH GRASSING IN ACCORDANCE WITH SECTION 720 OF THE SPECIFICATION.

PLANTING OFFSETS NOTES

PROPOSED TREES ARE TO BE PLANTED TO CONFORM WITH VICROADS TREE PLANTING POLICY AND ADOPT APPROVED SAFETY REQUIREMENTS.

TREES SHALL NOT BE PLANTED CLOSER THAN 3.0 METRES TO BRIDGES AND OTHER STRUCTURES, INCLUDING NOISE WALLS, RETAINING WALLS, HEADWALLS, AND ROCK BEACHING.

TREES SHALL NOT BE PLANTED CLOSER THAN 1.0 METRES TO PROPERTY BOUNDARIES.

TREES SHALL NOT BE PLANTED CLOSER THAN 1.0 METRES TO DRAINAGE PIPES AND PITS.

TREES SHALL NOT BE PLANTED CLOSER THAN 1.25 METRES TO THE EDGE OF PROPOSED BICYCLE PATHS AND PEDESTRIAN PATHS. SHRUBS SHALL BE PLANTED SO THEY DO NOT IMPACT SUP AT MATURITY

TREES PLANTED ADJACENT TO SHARED USE PATHS SHALL BE PRUNED AS REQUIRED DURING ESTABLISHMENT TO MAINTAIN CLEARANCES TO THE PATH IN ACCORDANCE WITH AGRD PART 6A - FIGURE 5.7.

TREES AND NON FRANGIBLE SHRUBS (WITH A TRUNK DIAMETRE >100MM). SHALL NOT BE PLANTED WITHIN THE DEFLECTION ZONE OF WRSB OR GUARD FENCES.

TREES SHALL NOT BE PLANTED CLOSER THAN 10.0M. (HORIZONTALLY) TO OVERHEAD POWER LINES. WHERE 220KV HIGH VOLTAGE LINES EXIST NO TREES ARE TO BE PLANTED WITHIN EASEMENTS. SMALL TREES AND LARGE SHRUBS PLANTED WITHIN EASEMENTS SHALL NOT EXCEED 3.0M. IN HEIGHT. (REFER TO 'YOUR GUIDE TO PLANTING NEAR ELECTRICITY LINES' SP AUSNET.)

TREES AND LARGE SHRUBS ARE NOT TO BE PLANTED DIRECTLY OVER UNDERGROUND SERVICES. A MINIMUM OFFSET OF 2.0M. TO TREES AND LARGE SHRUBS IS REQUIRED WHERE POSSIBLE. WHERE TREES OR LARGE SHRUBS NEED TO BE PLANTED CLOSER TO UNDERGROUND SERVICES, APPROPRIATE APPROVAL SHALL BE SOUGHT FROM ASSET OWNERS. THE EXACT LOCATION OF TREES AND LARGE SHRUBS IN THE VICINITY OF UNDERGROUND SERVICES SHALL BE CONFIRMED ON SITE ONCE SERVICE LOCATIONS ARE PROVEN. SMALL SHRUBS AND GROUNDCOVERS CAN BE PLANTED DIRECTLY OVER U/G SERVICES.

TREES PLANTED IN GRASS SHALL NOT BE PLANTED CLOSER THAN 3.0M. TO THE EDGE OF A MULCHED PLANTING BED TO ENABLE MOWER ACCESS.

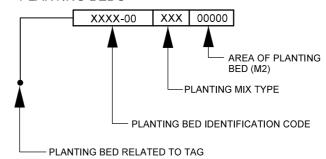
DENSE TREES AND SHRUB PLANTING SHALL BE MULCHED AS ONE CONTINUOUS PLANTING BED TO 1 METRE OUTSIDE OF THE PLANT STEM

SHRUBS SHALL BE LOCATED SO THAT THE FOLIAGE OF ALL MATURE SHRUBS SHALL BE WITHIN THE RANGE OF 200-1000MM BEHIND THE BACK OF ANY SAFETY GUARD FENCE OR WIRE ROPE BARRIER. TREES SHALL BE PLACED SO THEY DO NOT INTERFERE WITH SAFETY BARRIER DEFLECTION REQUIREMENTS.

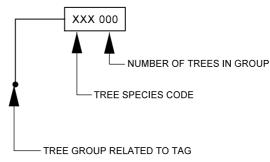
PLANTS ARE TO BE SET BACK FROM DRAINAGE SWALE INVERTS, SPOON DRAINS AND PITS SO THE FOLIAGE OF THE PLANS AT MATURITY DOES NOT OBSTRUCT ACCESS FOR MAINTENANCE

PLANTING TAGS

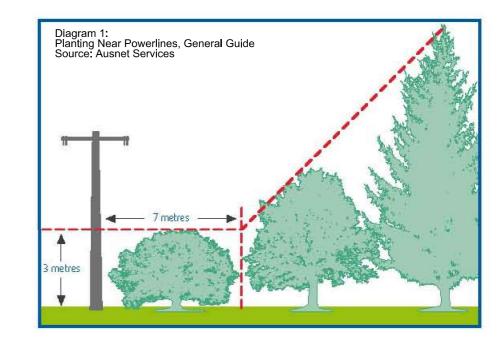
PLANTING BEDS



TREE GROUPS



NOTE: WHERE AN ASTERISK IS SHOWN ON THE TREE SPECIES CODE THESE TREES ARE TO BE PLANTED AS ADVANCED STOCK (REFER TO PLANTING SCHEDULES)



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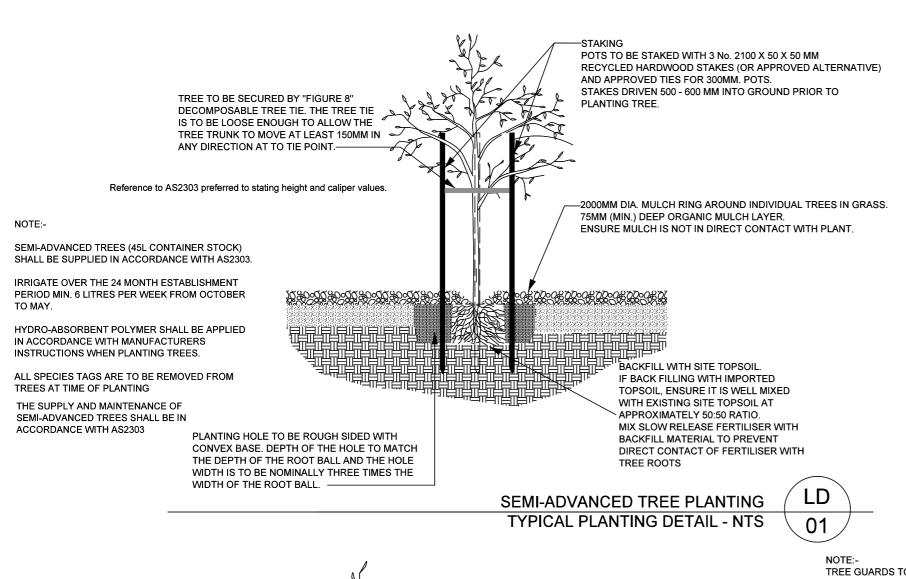
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BULMANS ROAD - STAGE 2 High Street and Bulmans Road Intersection

GENERAL NOTES

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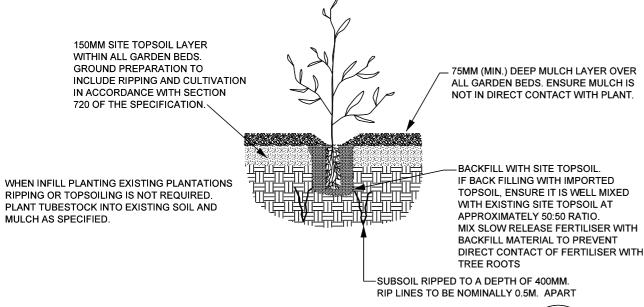
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GRASS MIX 50:50 KIKUYU/RYE SEED MIX IN AREAS LESS THAN 3.0M. WIDE. ALL OTHER AREAS TO BE ROLLED ENSURE SOIL PROFILES ARE NOT KIKUYU TURF. COMPACTED PRIOR TO SEEDING. - ENSURE LEVEL SURFACE SUBSOIL RIPPED TO A DEPTH OF 200MM. RIP LINES TO BE 75MM SITE TOPSOIL EXCEPT 500MM (MAX.) APART 100MM IN SWALES **CULTIVATED SUB-SOIL** TO 50-100MM DEPTH TYPICAL GRASSING DETAIL 02

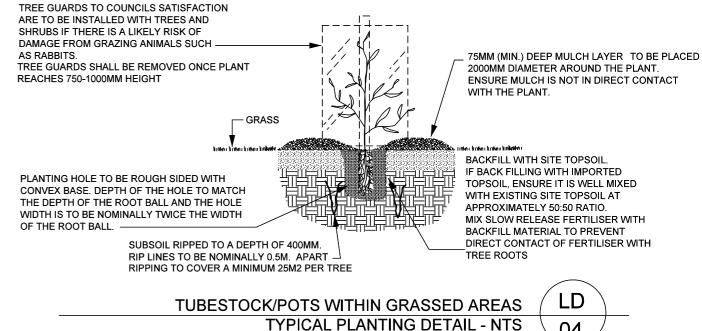
ALL DISTURBED GROUND, INCLUDING VERGES AND SWALES, THAT IS NOT TO BE MULCHED AND PLANTED OR PAVED SHALL BE HYDROMULCHED USING THE FOLLOWING MATERIALS

AND GRASS MIX.



TUBESTOCK/POTS WITHIN MULCHED BEDS

TYPICAL PLANTING DETAIL - NTS

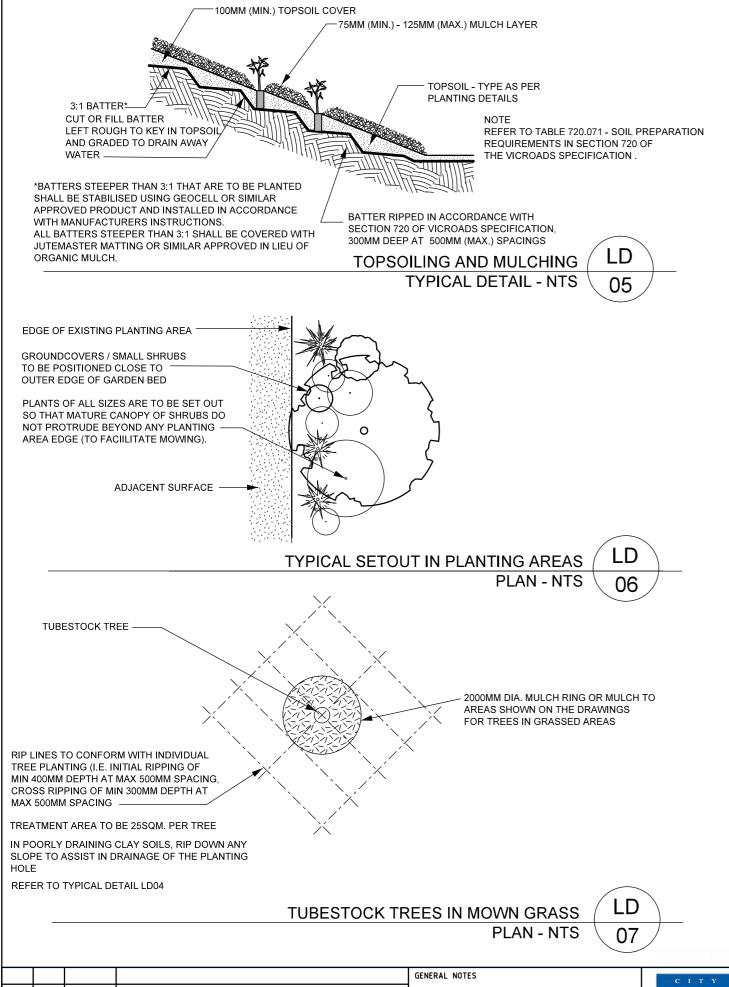


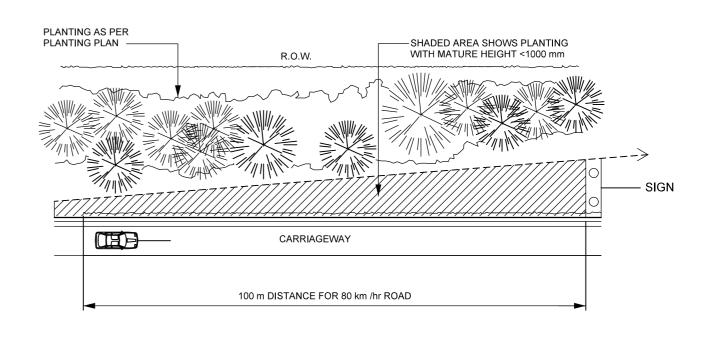
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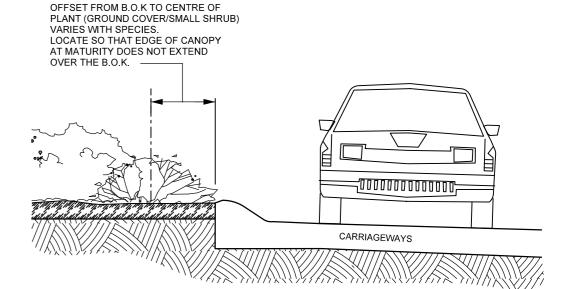
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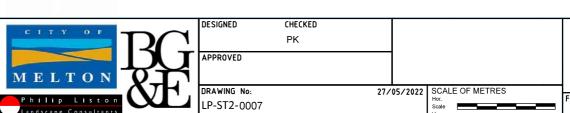
LD TYPICAL PLANT SETOUT IN FRONT OF ROAD SIGNAGE 80 PLAN - NTS



PLANTING BEHIND BACK OF KERB **TYPICAL DETAIL - NTS**

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DETAILED DESIGN



BULMANS ROAD - STAGE 2 High Street and Bulmans Road Intersection

DETAILS - SHEET 2 OF 4

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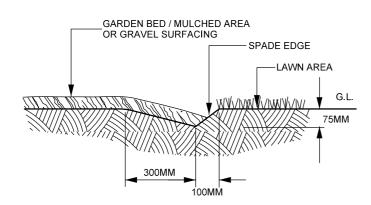
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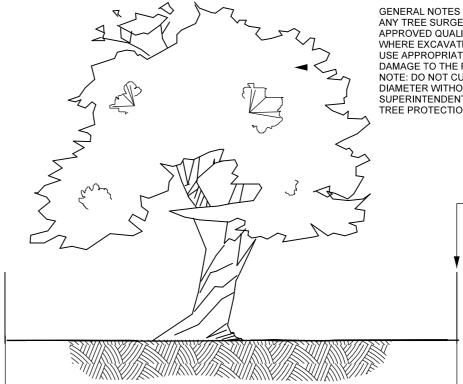
AMENDMENT



LD PLANTING BED - SPADE EDGE DETAIL TYPICAL DETAIL NTS 10

PLANTING BED/GRAVEL SURFACE -┌GRASS AREA MULCH LAYER TOPSOIL--100mmx25mm TREATED PINE TIMBER PLINTH. 75x75x300mm LONG ROUGH SAWN TREATED PINE STAKES SECURED TO EDGING AT 600mm

> LD TIMBER EDGING TYPICAL DETAIL - NTS 12



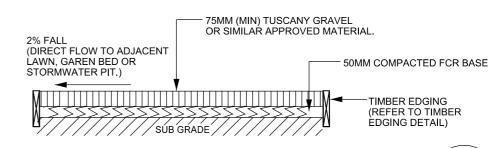
ANY TREE SURGERY TO BE CARRIED OUT BY AN APPROVED QUALIFIED ARBORIST. WHERE EXCAVATION OR CULTIVATION IS NECESSARY, USE APPROPRIATE METHODS TO MINIMISE POTENTIAL DAMAGE TO THE ROOT ZONE. NOTE: DO NOT CUT ROOTS GREATER THAN 50mm DIAMETER WITHOUT APPROVAL FROM THE SUPERINTENDENT. TREE PROTECTION MEASURES TO CONFORM WITH AS4970-2009.

> PLACE AN APPROVED PROTECTIVE BARRIER AROUND THE TREE PROTECTION ZONE (TPZ). THE TPZ IS ESTABLISHED BY A RADIUS FROM THE TRUNK CALCULATED BY 12 TIMES THE TRUNK DIAMETRE AT CHEST HEIGHT (1.4M HT.). DO NOT STORE MATERIAL OR REMOVE SOIL FROM THIS ZONE. FENCE OFF THIS ZONE & PREVENT VEHICLES FROM ENTERING

TPZ BARRIERS LOCATIONS TO BE CONFIRMED BY QUALIFIED

TREE PROTECTION ZONE - WIDTH VARIES

EXISTING TREE PROTECTION TYPICAL DETAIL - NTS



LD **GRAVEL SURFACING DETAIL** 13 TYPICAL DETAIL - NTS

DETAILED DESIGN

GENERAL NOTES 27052022 Detailed Design 13052022 Detailed Design В PL Preliminanry Design ISSUE APP'D DATE AMENDMENT

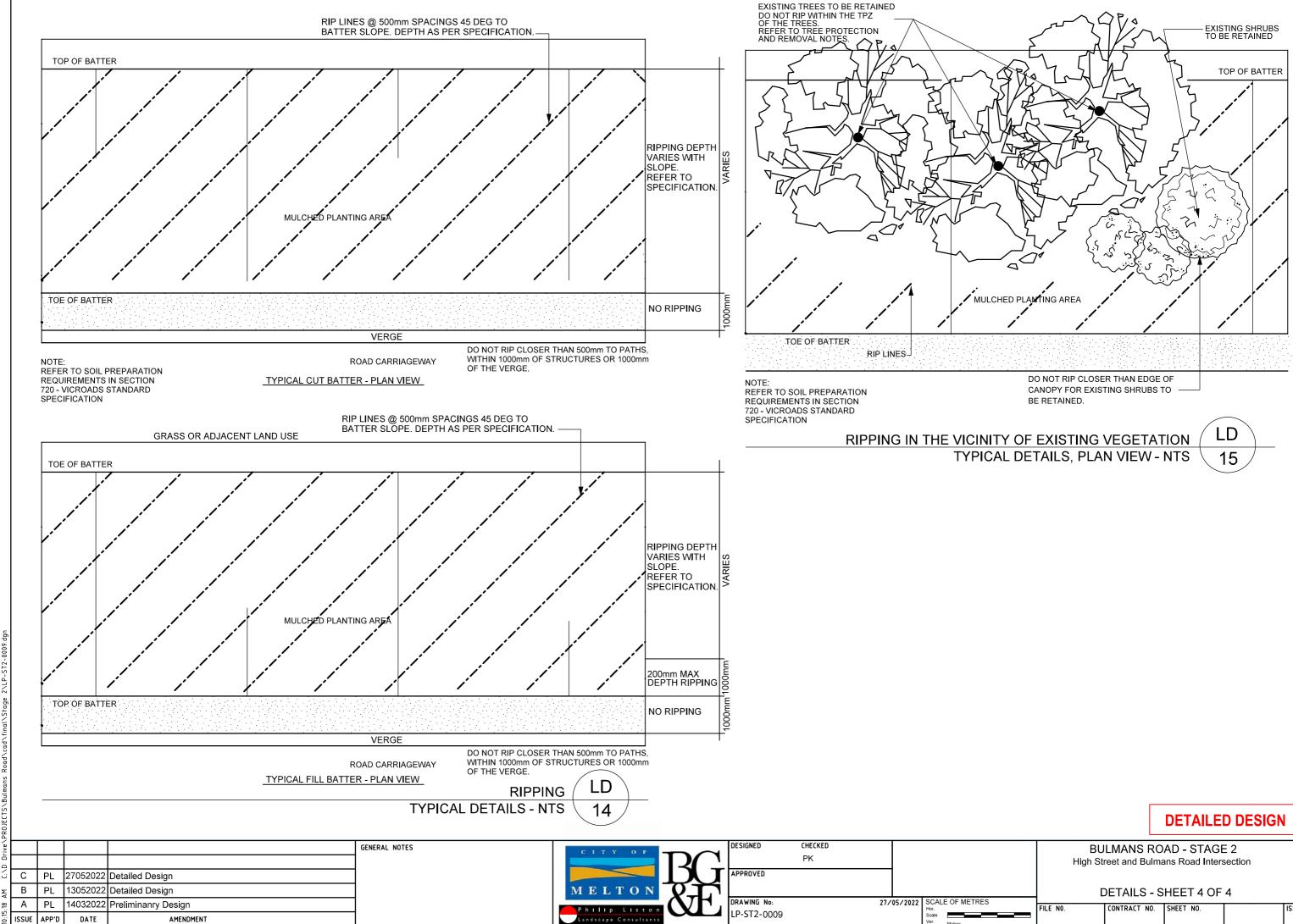


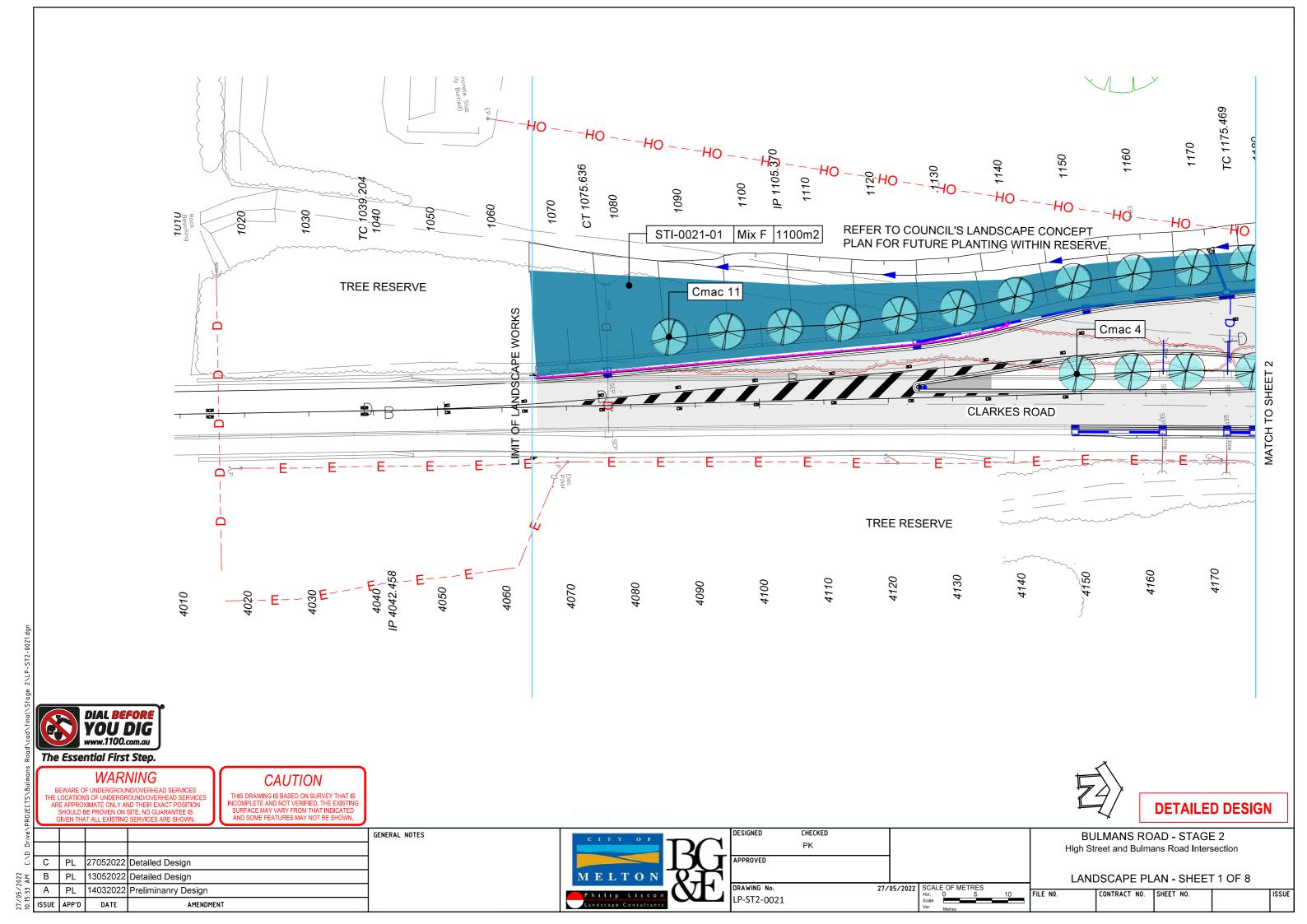
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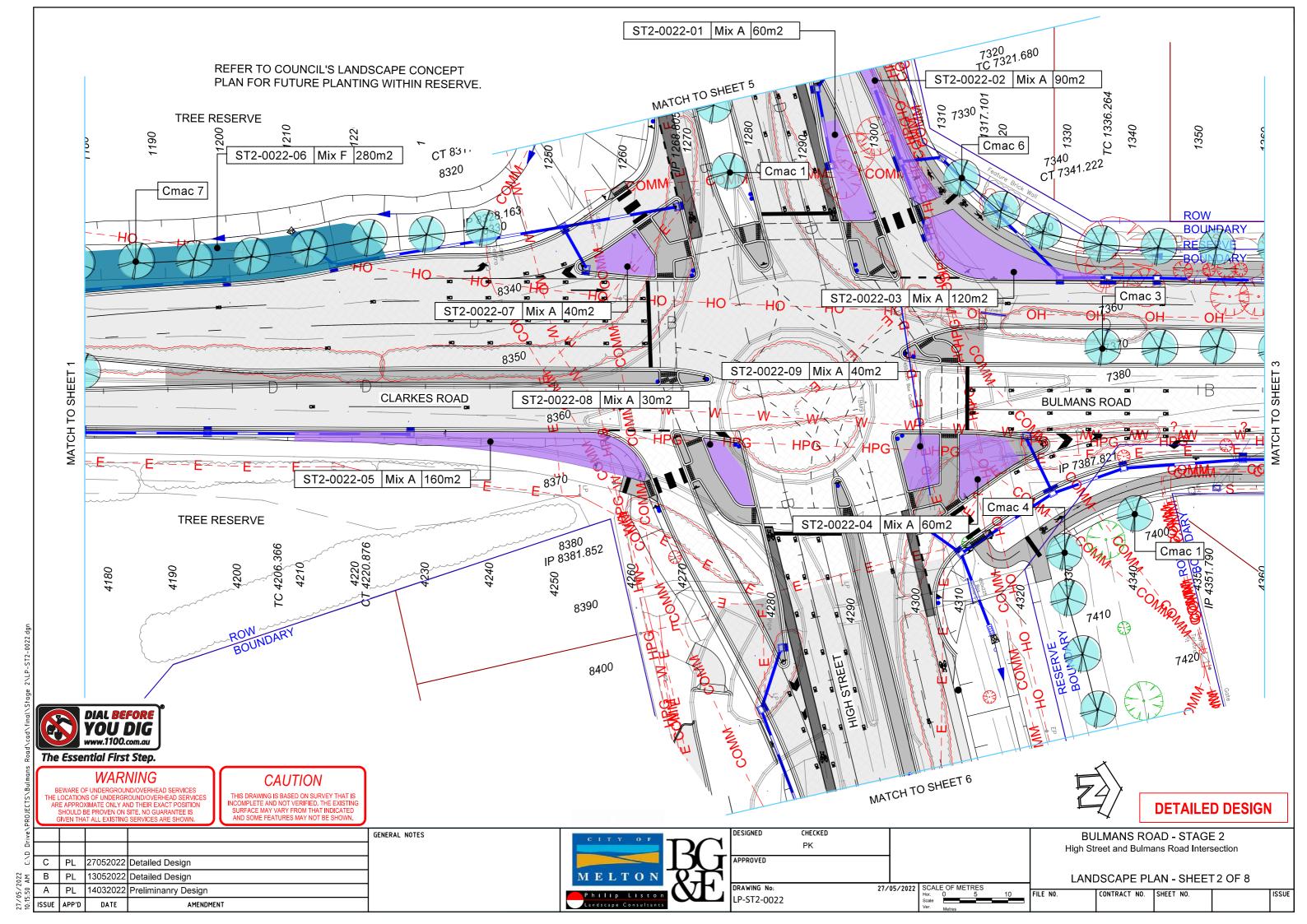
BULMANS ROAD - STAGE 2 High Street and Bulmans Road Intersection

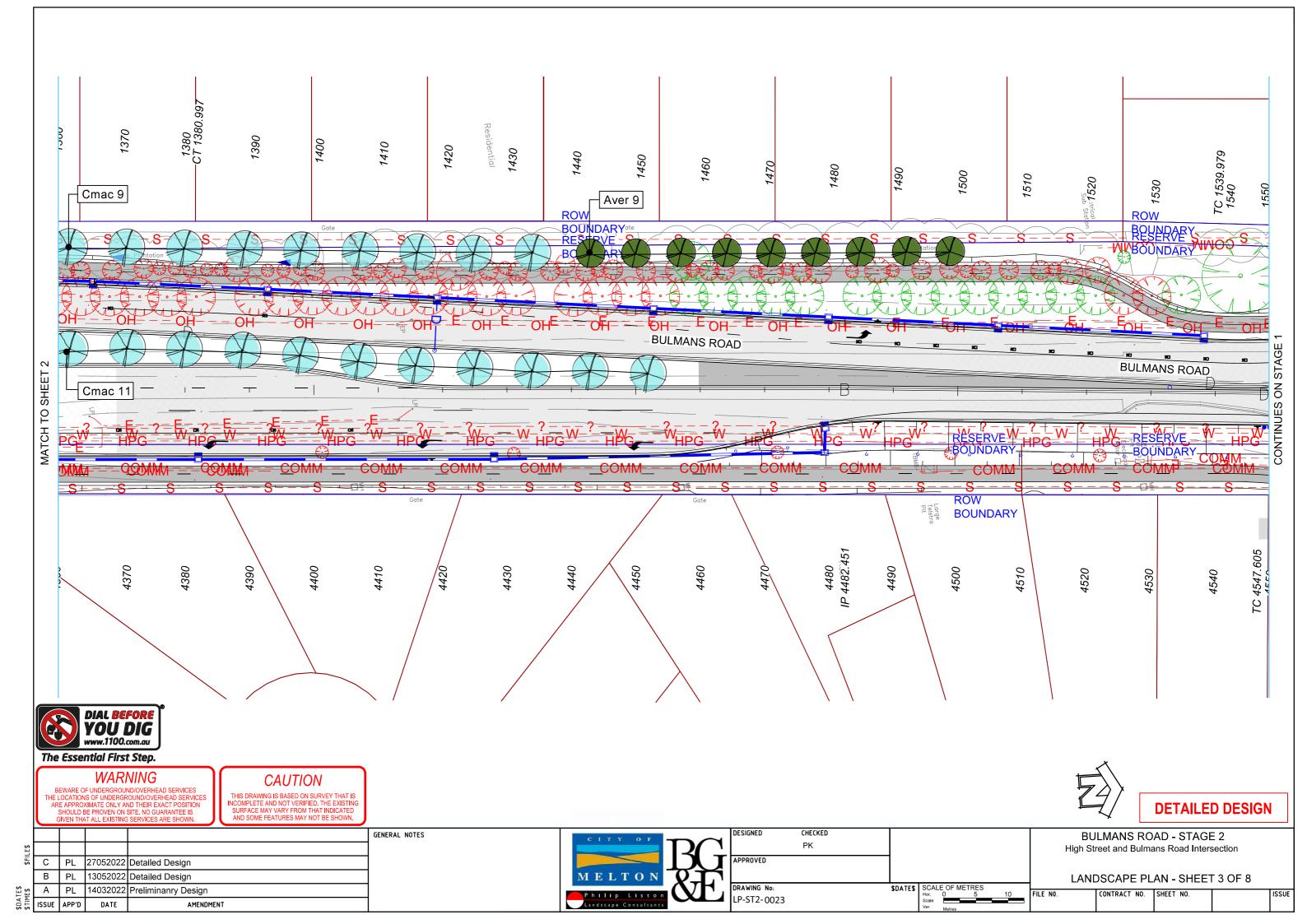
DETAILS - SHEET 3 OF 4

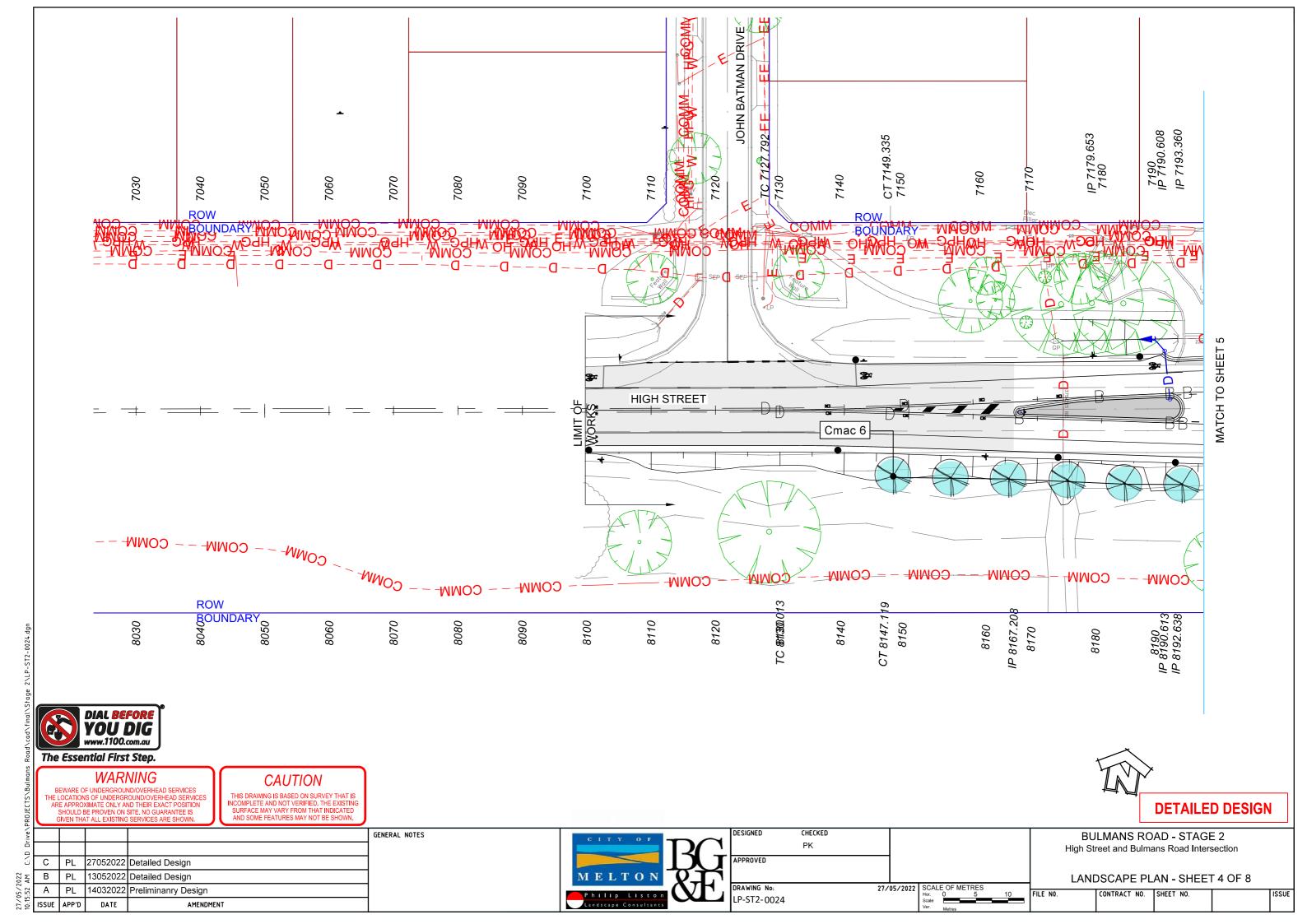
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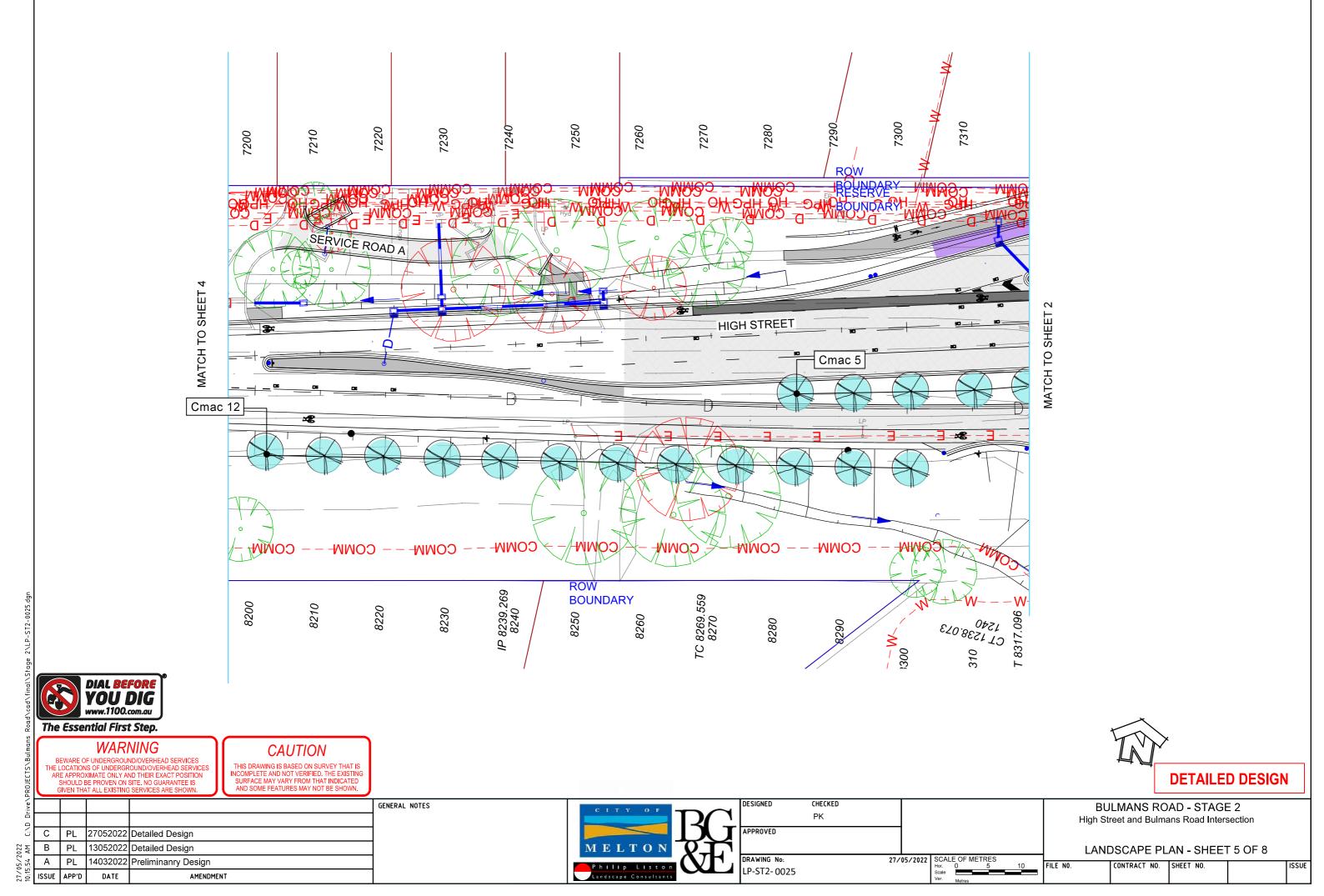


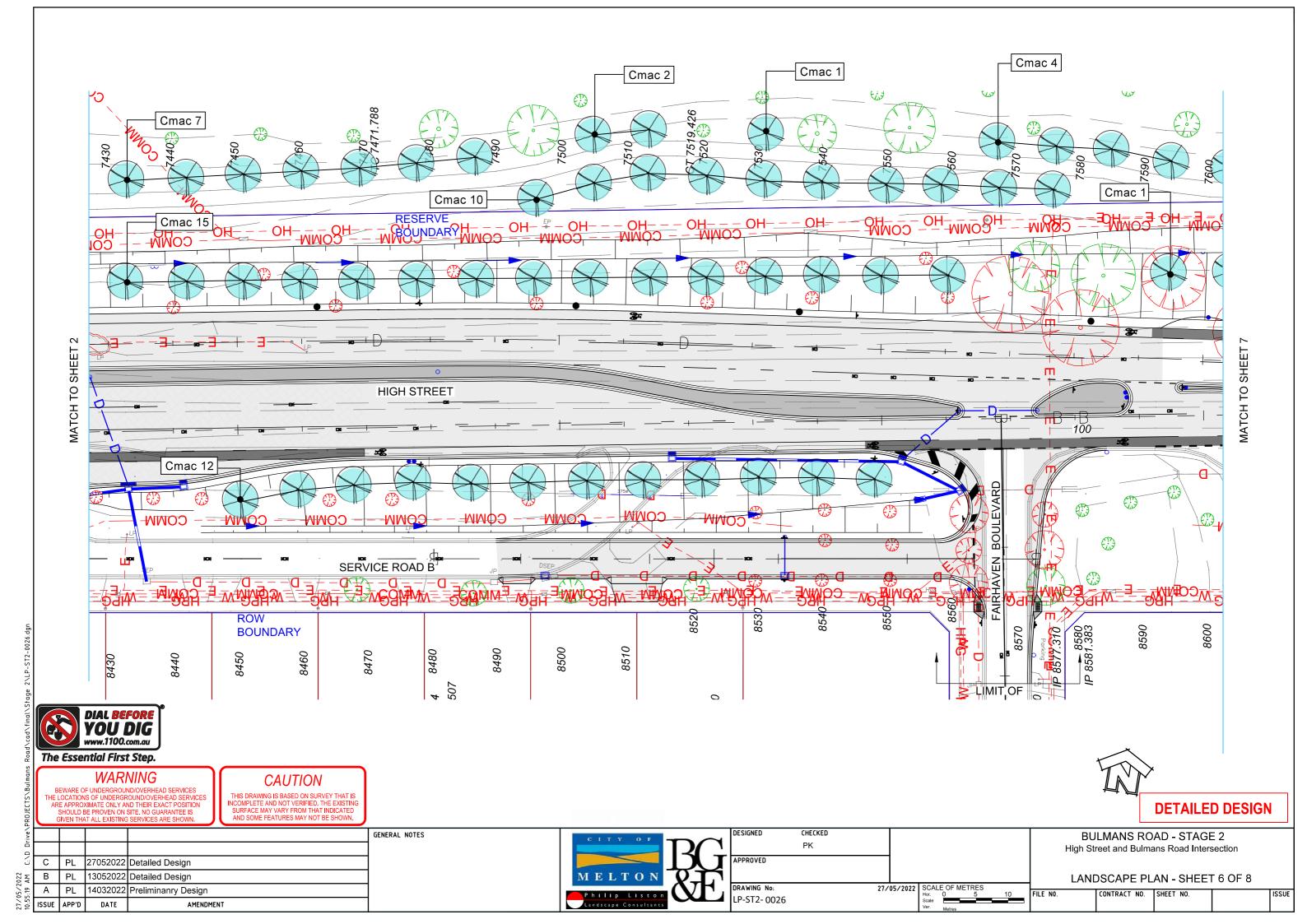


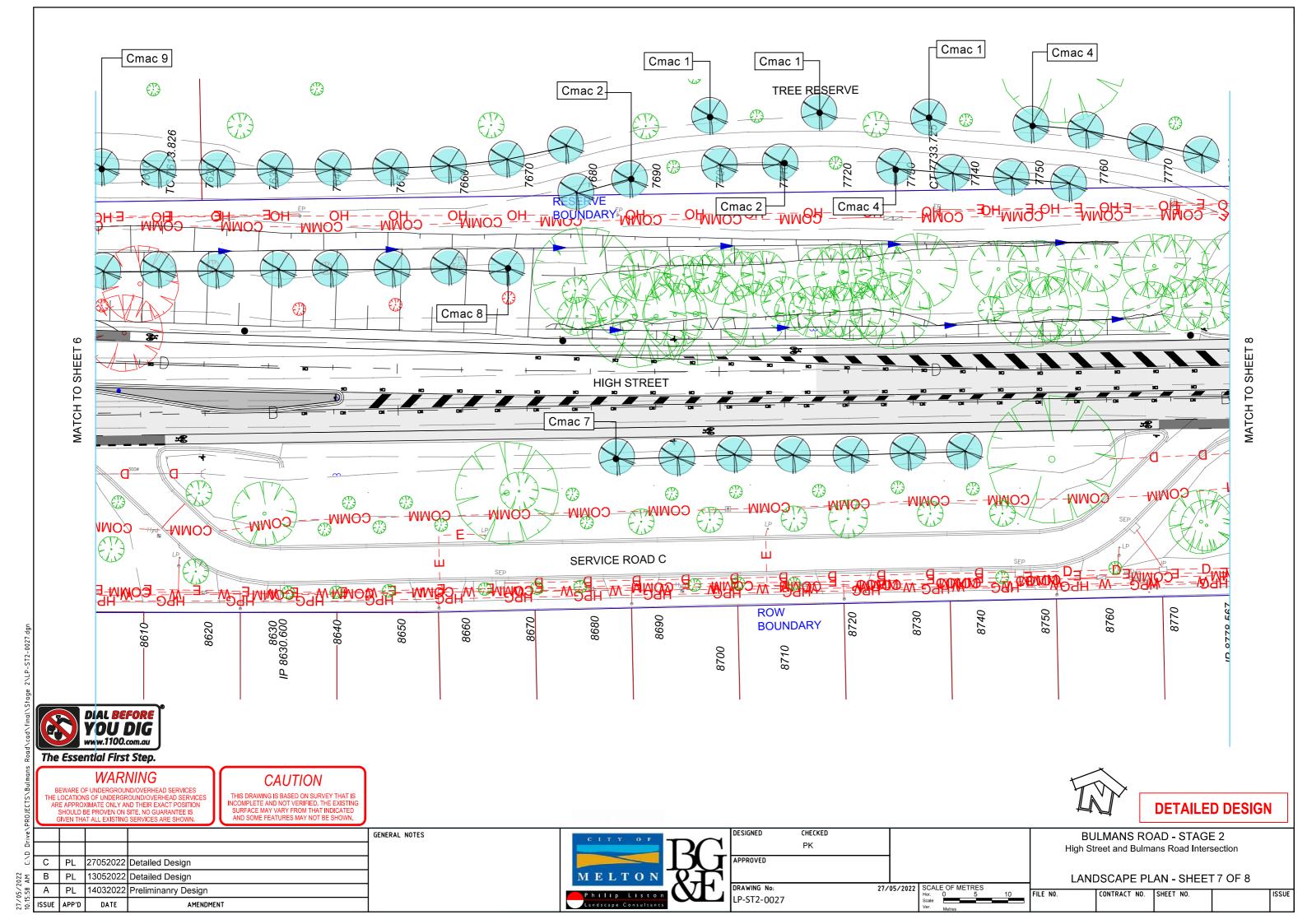


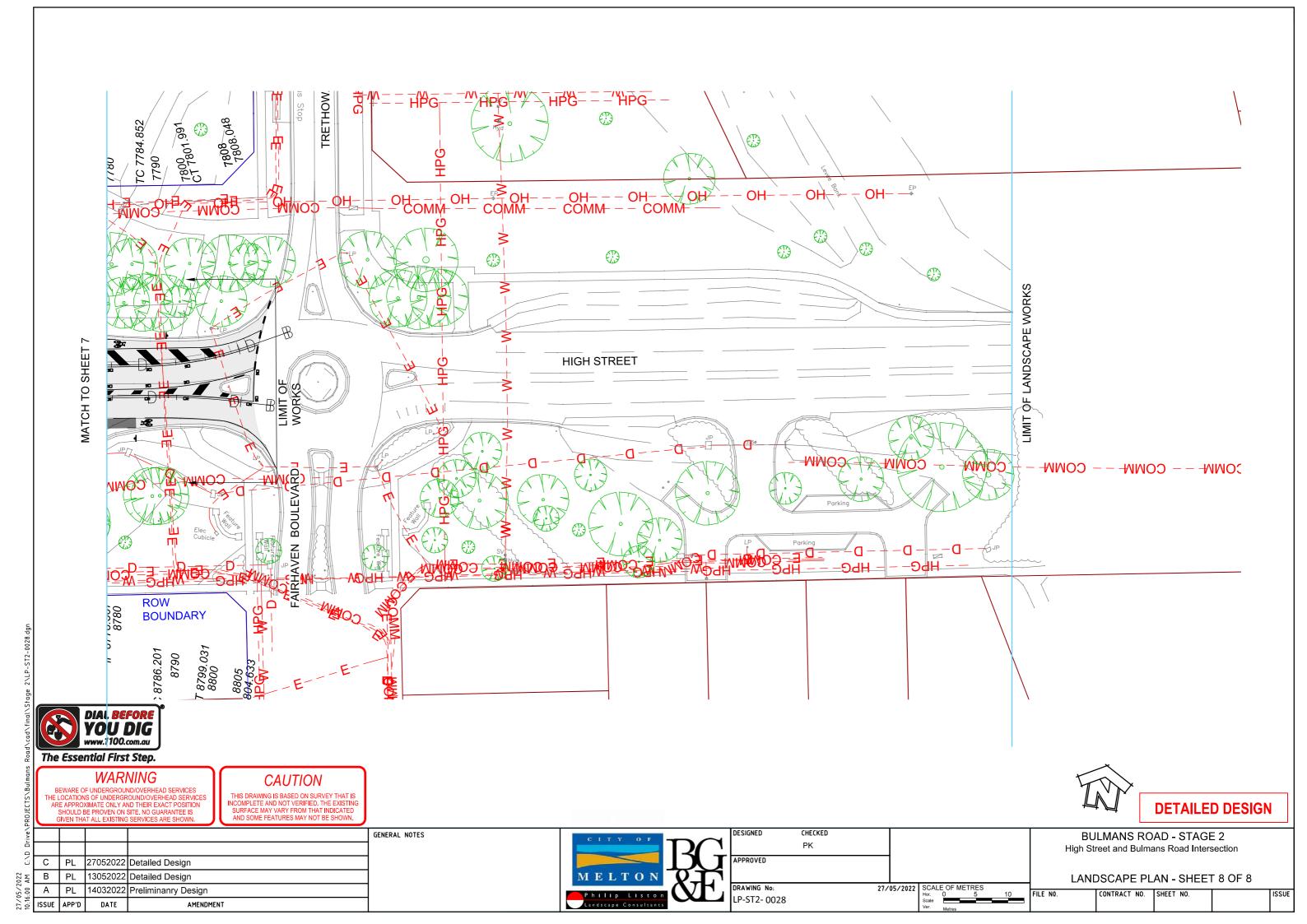












DETAILED DESIGN

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PLANT SCHEDULE

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