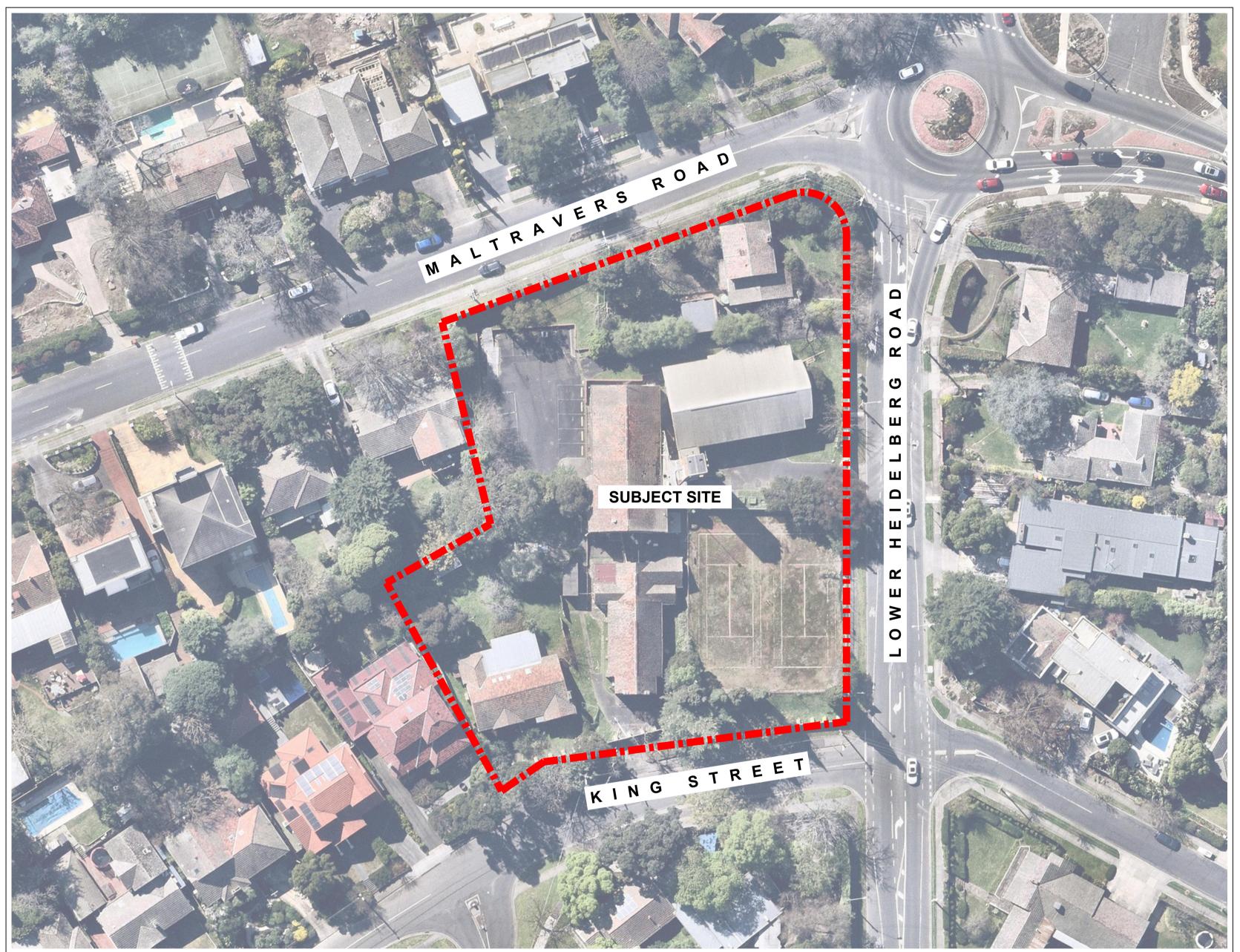
# PROPOSED DEVELOPMENT 321 LOWER HEIDELBERG ROAD, IVANHOE



## LANDSCAPE WORKS FOR TOWN PLANNING ISSUE

		lssue No.
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EXISTING VEGETATION PLAN	1:200 @ A1	А
OVERALL SITE PLAN	1:200 @ A1	A
TREE PLANTING PLAN	1:200 @ A1	A
DETAILED PLANTING PLAN - SOUTH	1:100 @ A0	A
DETAILED PLANTING PLAN - NORTH	1:100 @ A0	A
INDICATIVE LIGHTING PLAN	1:200 @ A1	А
TY PICAL DETAILS & SPECIFICATION NOTES	AS SHOWN @ A1	А
LANDSCAPE MAINTENANCE SCHEDULE	N/A @ A1	А
	EXISTING VEGETATION PLAN OVERALL SITE PLAN TREE PLANTING PLAN DETAILED PLANTING PLAN - SOUTH DETAILED PLANTING PLAN - NORTH INDICATIVE LIGHTING PLAN TY PICAL DETAILS & SPECIFICATION NOTES	EXISTING VEGETATION PLAN1:200 @ A1OVERALL SITE PLAN1:200 @ A1TREE PLANTING PLAN1:200 @ A1DETAILED PLANTING PLAN - SOUTH1:100 @ A0DETAILED PLANTING PLAN - NORTH1:100 @ A0INDICATIVE LIGHTING PLAN1:200 @ A1TY PICAL DETAILS & SPECIFICATION NOTESAS SHOWN @ A1

## TREE PROTECTION NOTES

- Tree Protection measures are to be in accordance with Australian 5. Any root and branch pruning requirements are to be carried out Standard AS 4970 -2009 Protection of Trees on Development Sites
- 1. All trees to be retained are to be identified and fenced off prior to demolition and construction works commencing, or any heavy machinery entering the site. Tree protection fencing is to be established to create an exclusion zone around the tree at the distance from the trunk specified as the Tree Protection Zone (TPZ) or as indicated on the Landscape Plan. Once erected, these areas are to be maintained as 'no go' zones to limit trafficking through the TPZs and avoid inadvertent mechanical damage by construction vehicles and equipment during construction. Fencing is to remain in place until soft landscaping works commence as part of the final stage of site works.
- 2. If access or temporary relocation of protective fencing is required e.g. to allow for the demolition of existing structures, it • No trenching or removal of soil is to take place. Existing levels must be with the approval and supervision of a Project Arborist. The appointed Project Arborist is to be an appropriately experienced and skilled professional with a minimum qualification of Certificate V (or equivalent) in Arboriculture.
- 3. Tree Protection fencing is to be constructed of temporary security fencing (or similar) securely fixed to block bases. No holes are to be dug for fence construction unless outside the specified TPZ. Fencing is to be of a minimum height of 1.8m and is to be secure, so as to deter easy entry. At least one weatherproof sign per side is to be attached to each fenced TPZ and is to clearly state "TREE PROTECTION ZONE, ENTRY RESTRICTIONS APPLY, DO NOT REMOVE FENCE, CONTACT THE CONTRACTOR IF ENTRY IS REQUIRED. NO EXCAVATING OR TRENCHING, NO STORAGE OF MATERIALS OR WASTE" and is to have the Contractor's (or • No storage of materials, equipment or temporary buildings will appointed site foreman) and Project Arborist's contact details
- 4. The ground within all TPZs within the site (both fenced and unfenced) and outside of the building footprints is to be maintained with a 50-100mm layer of coarse woodchips. Woodchips are to be well composted and are to be kept a minimum of 300mm back from the tree's trunk. The soil surface is to be thoroughly wet immediately prior to the installation of • If damage of any sort is to occur to any tree on site, the Project the mulch layer. Unless during water restrictions, irrigation is to be provided for each of the trees from December to March • Any changes to the building/landscaping design which alter inclusive. A weed control program is to be implemented for mulched areas .

- development process:
- existing site soil; • No fill to a depth greater than 100mm is to be installed;
- situ;
- zone:
- reason:
- impact damage.

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by the appointed Project Arborist and be in accordance with Australian Standard AS 4373-2007 Pruning of Amenity Trees. Where a root diameter of 20mm or greater is encountered during site works, these shall be cleanly pruned by hand, and never torn from the ground by machinery.

6. Throughout construction works the Project Arborist is to undertake regular inspections of trees and carry out remedial works as required to ensure trees retain good health and where necessary install additional trunk, branch or ground protection.

7. These general protection requirements apply throughout the

• No heavy machinery is to enter the fenced areas of the TPZ without the express permission of the Project Arborist (emergency service vehicles excluded);

must be maintained. Garden beds must be constructed using

• Any vegetation located within Tree Protection Zones is to be removed by hand so that no heavy machinery enters into TPZ; No trenched services are to pass through the TPZ. If services are required they are to be bored beneath the root zone to a depth approved by the Project Arborist, or non-destructively excavated, such as hydro excavation, to retain significant roots in

 No drainage or subsurface irrigation lines are to be installed; No fuel, oil dumps or chemicals shall be allowed in or stored on the Tree Protection Zone. The servicing and refuelling of equipment and vehicles must be carried out away from the root

take place over the root zone;

• No fixtures of any sort shall be attached to the trees for any • The Project Arborist is to be consulted prior to heavy machinery

accessing any of the fenced TPZ; All machinery is to be kept clear of the tree canopy to prevent

Arborist must be contacted to take immediate remedial action. surface or below ground works within the fenced TPZ are to be subject to the approval of the Project Arborist prior to proceeding.

REVISION A To Council Request DATE BY 12.04.2024 MGR



OHN PATRICK ANDSCAPE ARCHITECTS PTY LTD 24 Victoria Street, ichmond, VIC 3121 +61 3 9429 4855 +61 3 9429 8211 dmin@johnpatrick.com.au www.johnpatrick.com.au

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**TLC Melbourne Pty Ltd** 

PROJECT **TLC Ivanhoe** 

321 Lower Heidelberg Road, Ivanhoe East

DRAWING Cover Page / Drawing Index for Town Planning

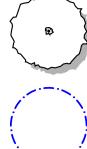
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DEC 2023 MGF JP L-TP00

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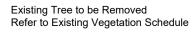
23-489 enabling its consideration and review as part of a planning process under the 23-489 L-TP Rev Acdwgnent must not be used for any purpose which may breach any

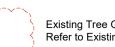


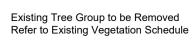
Existing Tree to be Retained Refer to Arboricultural Report (Nov 2023) by John Patrick Landscape Architects for Further Information

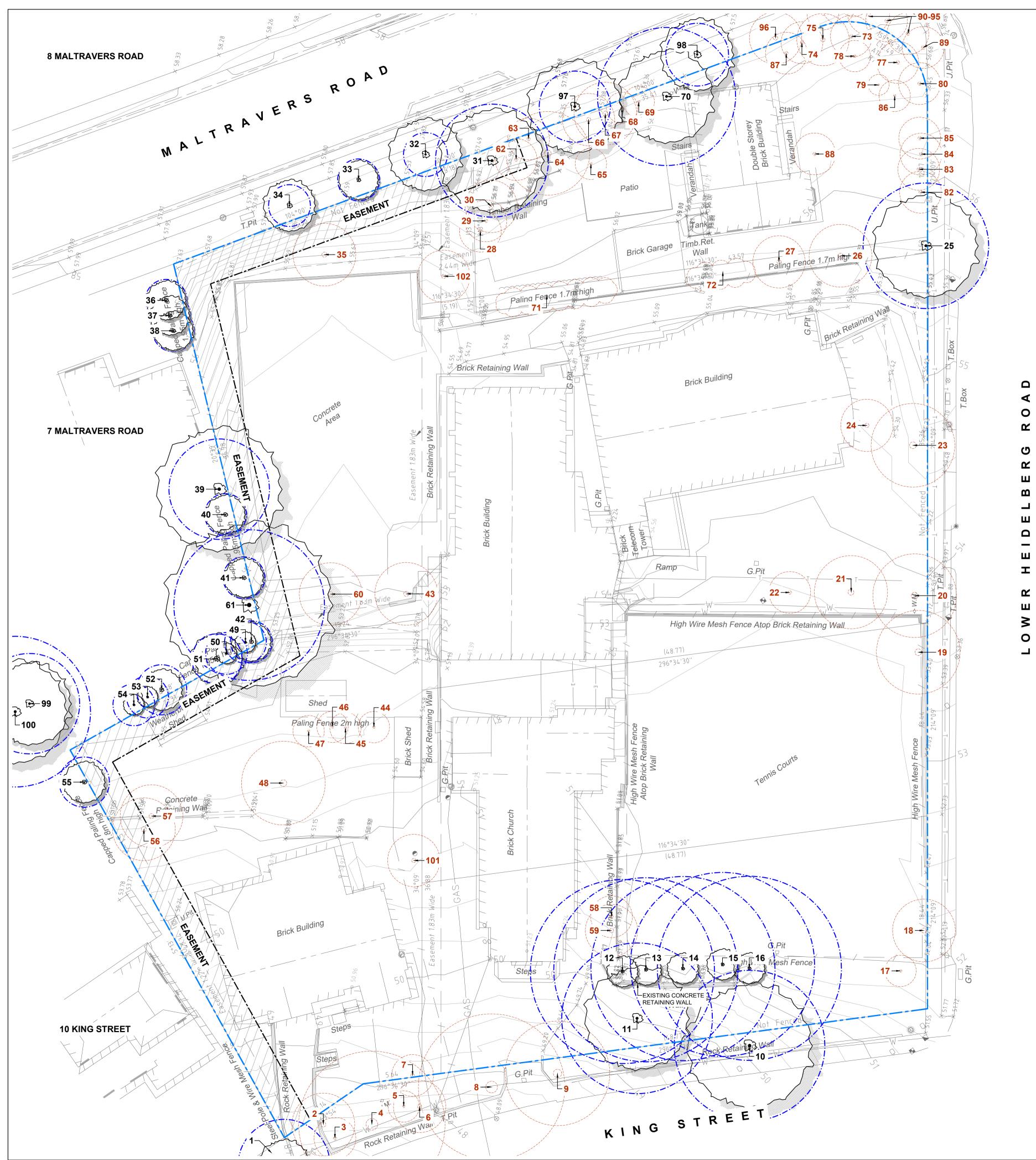
Tree Protection Zone (TPZ) Dashed Blue Refer to Tree Protection Notes (TP00) & Tree Management Plan (Nov 2023) by John Patrick Landscape Architects for Tree Protection Details











	NG VEGETATION SCH						
No.	BOTANICAL NAME	COMMON NAME	HEIGHT (m)	SPREAD (m)	Tree Protection Zone (TPZ) Radius	RETAIN / REMOVE	COMMENTS
TREES*	Allocasuarina torulosa	Forest Oak	11	5	4.4m	Retain	
2	Melaleuca styphelioides	Prickly-leaved Paperbark	7	6	-	Remove	
3	Agonis flexuosa	Willow Myrtle	4	4	-	Remove	
4	Melia azedarach	White Cedar	10	14	-	Remove	
5	Callistemon salignus Sophora microphylla	Willow Bottlebrush Kowhai	4	3 5	-	Remove Remove	
7	Ligustrum lucidum	Shining Privet	6	4	-	Remove	
8	Fraxinus o. 'Raywood'	Claret Ash	10	14	-	Remove	
9 10	Fraxinus excelsior 'Aurea'	Golden Ash White Cedar	12 9	10 12	- 7.2m	Remove Retain	
10	Cedrus deodara	Deodar Cedar	15	12	7.2m	Retain	
12	Cupressus sempervirens	Italian Cypress	16	3	8.8m	Retain	
13	Cupressus sempervirens	Italian Cypress	16	3	8.8m	Retain	
14	Cupressus sempervirens	Italian Cypress	17	3	8.8m	Retain	
15 16	Cupressus sempervirens Cupressus sempervirens	Italian Cypress Italian Cypress	14 14	3	8.8m 8.8m	Retain Retain	
17	Cupressus sempervirens	Italian Cypress	17	3	-	Remove	
18	Cotoneaster glaucophyllus	Cotoneaster	4	6	-	Remove	
19	Cotoneaster glaucophyllus	Cotoneaster	4	8	-	Remove	
20 21	Eucalyptus mannifera Callistemon viminalis	Red Spotted Gum Weeping Bottlebrush	12 6	8	-	Remov e Remov e	
21	Callistemon viminalis	Weeping Bottlebrush	5	4	-	Remove	
23	Fraxinus excelsior 'Aurea'	Golden Ash	7	8	-	Remove	
24	Grevillea sp.	Grevillea	4	5	-	Remove	
25	Koelreuteria paniculata	Golden Rain Tree	7	10	6.0m	Retain	
26 27	Koelreuteria paniculata Koelreuteria paniculata	Golden Rain Tree Golden Rain Tree	5 5	6 5	-	Remove Remove	
27	Koelreuteria paniculata	Golden Rain Tree	4	4	-	Remove	
29	Sophora microphylla	Kowhai	6	4	-	Remove	
30	Sophora microphylla	Kowhai	8	5	-	Remove	
31 32	Lophostemon confertus	Brush Box Golden Rain Tree	14 5	10 7	5.4m 2.1m	Retain Retain	
32	Koelreuteria paniculata Koelreuteria paniculata	Golden Rain Tree	5	4	2.1m 2.0m	Retain	
34	Koelreuteria paniculata	Golden Rain Tree	4	5	2.0m	Retain	
35	Acacia melanoxylon	Blackwood Wattle	6	6	-	Remove	
36	Pittosporum tenuifolium cv.	Kohuhu	7	2	2.0m	Retain	
37 38	Pittosporum tenuifolium cv. Pittosporum tenuifolium cv.	Kohuhu Kohuhu	7 7	2	2.0m 2.0m	Retain Retain	
38	Ulmus parvifolia	Chinese Elm	9	12	4.8m	Retain	
40	Lophostemon confertus	Brush Box	7	4	2.0m	Retain	
41	Eucalyptus mannifera	Red Spotted Gum	6	4	2.0m	Retain	
42	Eucalyptus cinerea	Argyle Apple	7	4	2.0m	Retain	
43 44	Ligustrum lucidum Pittosporum tenuifolium cv.	Shining Privet Kohuhu	6 6	6	-	Remove Remove	
45	Pittosporum tenuifolium cv.	Kohuhu	6	3	-	Remove	
46	Pittosporum tenuifolium cv.	Kohuhu	6	3	-	Remove	
47	Pittosporum tenuifolium cv.	Kohuhu	6	3	-	Remove	
48	Ficus carica	Common Fig	5	8	-	Remove	
49 50	Pittosporum e. 'Variegatum' Pittosporum tenuifolium cv.	Silver Tarata Kohuhu	6 4	5 2	2.4m 2.0m	Retain Retain	
50	Callistemon sp.	Bottlebrush	4	2	2.0m	Retain	
52	Acacia pycnantha	Golden Wattle	5	4	2.4m	Retain	
53	Pittosporum tenuifolium cv.	Kohuhu	5	3	2.0m	Retain	
54	Pittosporum tenuifolium cv.	Kohuhu	5	2	2.0m	Retain	
55 56	Eucalyptus leucoxylon	Yellow Gum Shining Privet	5 8	4	2.4m	Retain Remove	
57	Ligustrum lucidum	Shining Privet	8	6	-	Remove	
58	Melaleuca styphelioides	Prickly-leaveu Deperbark	8	4	-	Remove	
59	Fraxinus a. ssp. angustifolia	Desert Ash	9	5	-	Remove	
60 61	Ligustrum lucidum Eucalyptus botryoides	Shining Privet Southern Mahogany	6 14	6 16	- 7.2m	Remove Retain	
62	Sophora microphylla	Kowhai	4	3	-	Remove	
63	Paulownia tomentosa	Empress Tree	4.5	4	-	Remove	
64	Paulownia tomentosa	Empress Tree	8	8	-	Remove	
65	Acer palmatum	Japanese Maple	3	3	-	Remove	
66 67	Koelreuteria paniculata	Golden Rain Tree Brush Box	5 9	5	-	Remove Remove	
68	Lophostemon confertus	Brush Box	5	3	-	Remove	
69	Ligustrum lucidum	Shining Privet	4	3	-	Remove	
70	Koelreuteria paniculata	Golden Rain Tree	7	9	6.6m	Retain	
71 72	Pittosporum tenuifolium cv. Pittosporum tenuifolium cv.	Kohuhu (Hedge) Kohuhu (Hedge)	7	3	-	Remove Remove	
72	Ligustrum lucidum	Shining Privet	4 5	3	-	Remove	
74	Camellia sasanqua	Sasanqua Camellia	5	4	-	Remove	
75	Cotoneaster glaucophyllus	Cotoneaster	4	5	-	Remove	
76	No Tree	Innenese Marta	0	0		Demo	
77 78	Acer palmatum Melaleuca armillaris	Japanese Maple Bracelet Honey- myrtle	3 6	3	-	Remove Remove	
79	Acer palmatum	Japanese Maple	3	2	-	Remove	
80	Cotoneaster glaucophyllus	Cotoneaster	4	4	-	Remove	
81	No Tree						
82 83	Robinia p. 'Umbraculifera' Robinia p. 'Umbraculifera'	Mop Top Robinia Mop Top Robinia	4	4	-	Remove Remove	
84	Robinia p. 'Umbraculifera'	Mop Top Robinia	4	4	-	Remove	
85	Robinia p. 'Umbraculifera'	Mop Top Robinia	4	4	-	Remove	
86	Melaleuca armillaris	Bracelet Honey- myrtle		- 121	-	Remove	
87	Ligustrum lucidum	Shining Privet Viburnum	4	4	-	Remove Remove	
88 89	Viburnum Sp. Photinia serratifolia	Christmas Berry	4	4	-	Remove	
90	Photinia serratifolia	Christmas Berry	4	4	-	Remove	
91	Photinia serratifolia	Christmas Berry	4	4	-	Remove	
92	Photinia serratifolia	Christmas Berry	4	4	-	Remove	
93 94	Cupressus sempervirens	Italian Cypress Italian Cypress	5 8	3	-	Remove Remove	
94	Cupressus sempervirens Cupressus sempervirens	Italian Cypress Italian Cypress	8	3	-	Remove	
96	Cotoneaster glaucophyllus	Cotoneaster	4	5	-	Remove	
97	Koelreuteria paniculata	Golden Rain Tree	5	9	3.4m	Retain	
98	Koelreuteria paniculata	Golden Rain Tree	4	7	3.0m	Retain	
99	Cupressus torulosa Cupressus torulosa	Bhutan Cypress Bhutan Cypress	18 18	8 10	4.8m 7.2m	Retain Retain	
100	101005000000000000000000000000000000000	Bridian Oypiess	10	10	1.210	and the second second	
100 101	Melia azederach	White Cedar	4	5	-	Remove	

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DATE BY 12.04.2024 MGR

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JOHN PATRICK LANDSCAPE ARCHITECTS PTY LTD 324 Victoria Street, Richmond, VIC 3121 T +61 3 9429 4855 F +61 3 9429 8211 admin@johnpatrick.com.au www.johnpatrick.com.au

CLIENT TLC Melbourne Pty Ltd

PROJECT **TLC Ivanhoe** 

321 Lower Heidelberg Road, Ivanhoe East

DRAWING Existing Vegetation Plan for Town Planning

SCALE DATE DRAWN CHECKED JOB NO D₩G NO CAD FILE

DEC 2023 MGR JP 23-489 L-TP01



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CLIENT **TLC Melbourne Pty Ltd** 

PROJECT **TLC Ivanhoe** 

321 Lower Heidelberg Road, Ivanhoe East

DRAWING Landscape Plan for Town Planning

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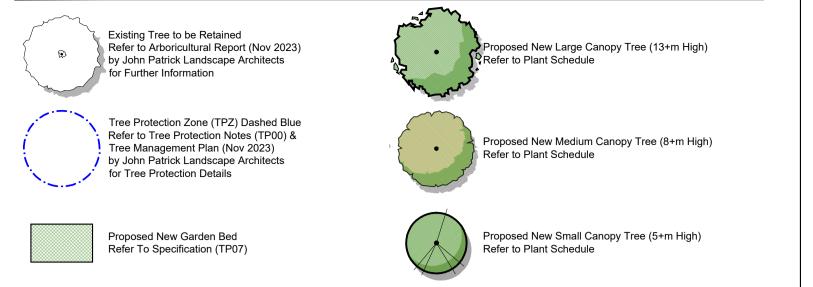
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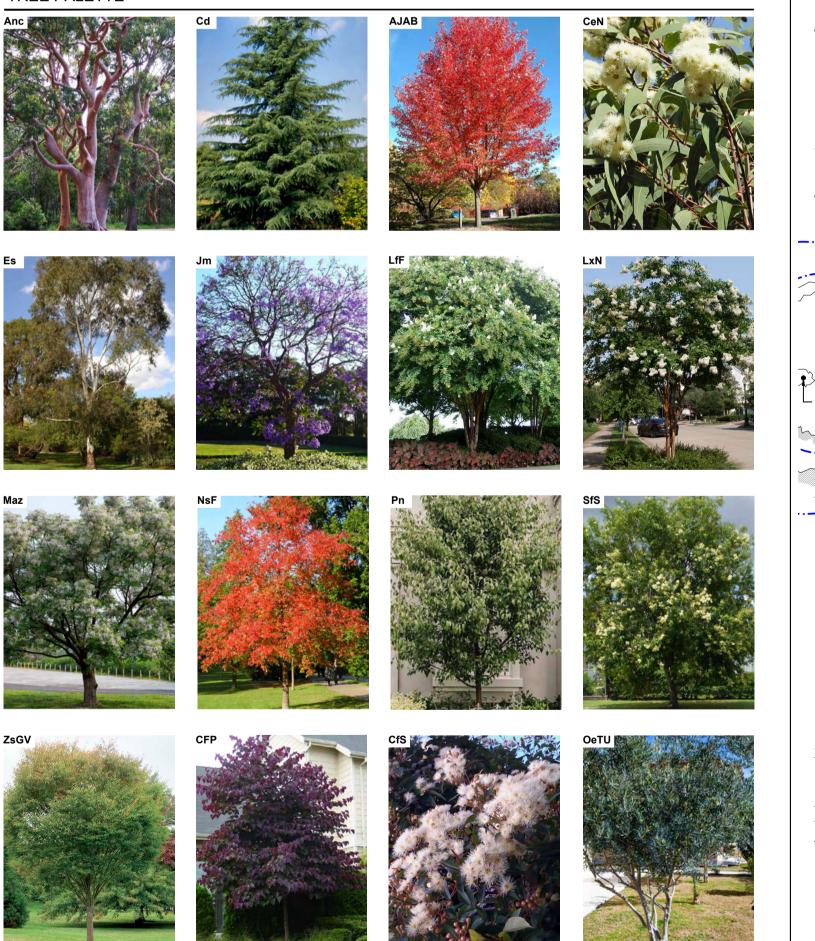
#### LEGEND





SYM	BOTAN CAL NAME	COMMONNAME	D/E N/Ex*	HEIGHT X WIDTH AT MATURITY	MIN SUPPLY SIZE	QTY
LARGECA	NOPY TREES					
Anc	Angophora costata	Smooth Bark Apple	E/N	15 x 10m	3.0mH	2
Cd	Cedrus deodara	Deodar Cedar	E/Ex	15 x 6m	3.0mH	6
					TOTAL	8
MEDIUM C	ANOPY TREES					
AJAB	Acer x freemanii 'Jeffersred' Autumn Blaze	Autumn Blaze Red Maple	D/Ex	10 x 7m	3.0mH	1
CeN	Corymbia eximia 'Nana'	Dwarf Yellow Bloodwood	E/N	10 x 6m	2.5mH	7
Es	Eucalyptus scoparia	Wallangarra White Gum	E/N	10 x 7m	2.5mH	3
Jm	Jacaranda mimosifolia	Jacaranda	D/Ex	10 x 8m	2.5mH	6
LfF	Lagerstroemia fauriei 'Fantasy'	Fantasy Crepe Myrtle	D/Ex	9 x 8m	2.5mH	1
LxN	Lagerstroemia indica x L. fauriei 'Natchez'	Natchez Crepe Mytle	D/Ex	8 x 5m	2.5mH	3
Maz	Melia azedarach 'Elite'	Low -fruiting White Cedar	D/N	10 x 10m	2.5mH	1
NsF	Nyssa sylvatica 'NXSXF' Forum	Forum Black Tupelo	D/Ex	10 x 5m	2.5mH	1
Pn	Pyrus nivalis	Snow Pear	D/Ex	8 x 6m	2.5mH	2
SfS	Syzygium floribundum 'Sw eeper'	Sw eeper Weeping Lilly-pilly	E/N	10 x 6m	2.5mH	1
ZsGV	Zelkova serrata 'Green Vase'	Japanese ⊟m	D/Ex	12 x 8m	2.5mH	3
					TOTAL	29
SMALL C	ANOPY TREES					
CFP	Cercis canadensis 'Forest Pansy'	Eastern Redbud	D/Ex	5 x 4m	1.5mH	3
CfS	Corymbia ficifolia 'Snow flake'	Snow flake Flow ering Gum	E/N	6 x 4m	1.5mH	4
OeTU	Olea europaea 'Tolley's Upright'	Upright Olive	E/Ex	5 x 3m	1.5mH	9
					TOTAL	16
	*D/E =	Deciduous/Evergreen N/Ex	= Native/Exoti	С		

### TREE PALETTE





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PROJECT **TLC Ivanhoe** 

321 Lower Heidelberg Road, Ivanhoe East

DRAWING Tree Planting Plan for Town Planning

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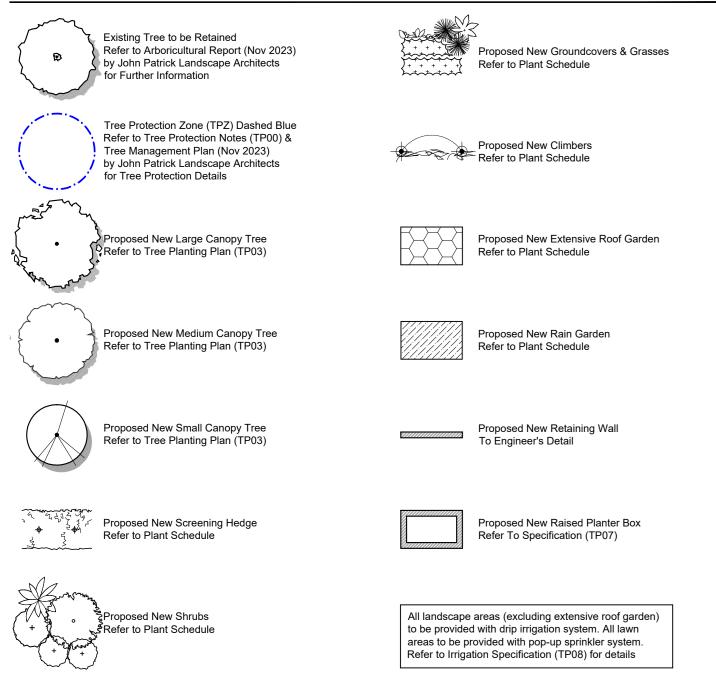
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## PLANT SCHEDULE - SOUTH

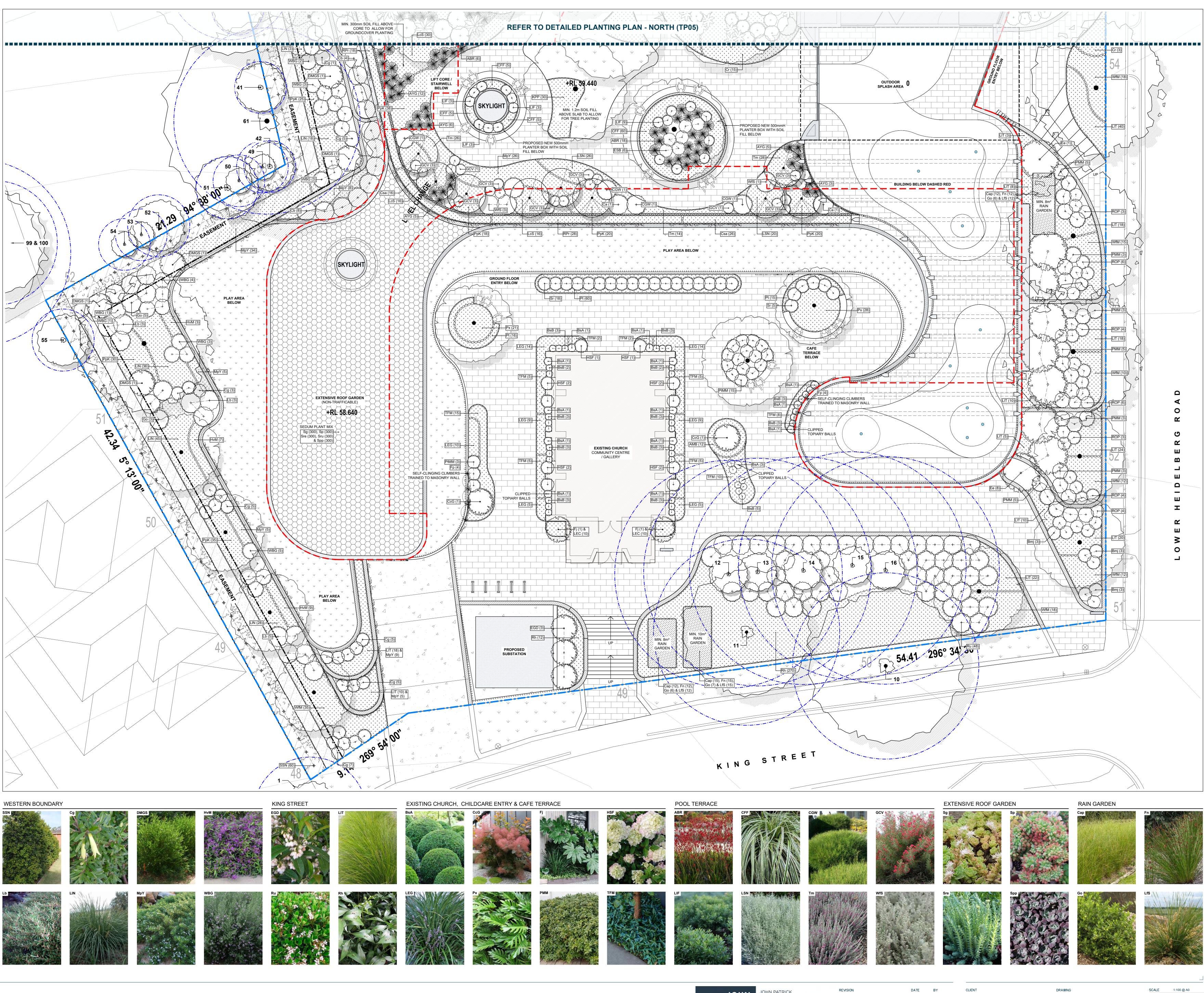
SYM	BOTANICAL NAME	COMMONNAME	D/E N/Ex*	HEIGHT X WIDTH AT MATURITY	MIN SUPPLY SIZE	QTY
CREENING	HEDGE					
SSN	Syzygium australe 'Straight & Narrow '	Straight & Narrow Lilly-pilly	E/N	6 x 1.5m	300mm pot	60
					TOTAL	60
HRUBS						
Bmj	Buxus microphylla var japonica	Japanese Box (Topiary Ball)	E/Ex	1m Topiary Ball	500mm pot	9
BsA	Buxus sempervirens	English Box (Topiary Ball)	E/Ex	500mm Topiary Ball	400mm pot	16
BsB	Buxus sempervirens	English Box (Topiary Ball)	E/Ex	400mm Topiary Ball	300mm pot	39
CGW	Casuarina glauca 'Green Wave'	Green Wave Casuarina	E/N	1.5 x 1.5m	200mm pot	4
CcG	Cotinus coggygria 'Grace'	Grace Smoke Bush	D/Ex	4 x 2m (coppiced)	200mm pot	2
Ca	Correa alba	White Correa	E/N	1 x 1-1.2m	200mm pot	2
Cb	Correa baeuerlenii	Chef's Hat Correa	E/N	1.5 x 1.5m	200mm pot	12
Cg	Correa glabra	Rock Correa	E/N	1.2 x 1.2m	200mm pot	30
DMGS	Dodonaea viscosa 'Mr Green Sheen'	Sticky Hop-bush	E/N	2 x 2m	200mm pot	5
Ee	Elaeocarpus eumundi	Eumundi Quandong	E/N	5 x 3m	300mm pot	9
EGD	Elaeocarpus reticulatus 'Green Dream'	Green Dream Blueberry Ash	E/N	3 x 2m	300mm pot	3
Fj	Fatsia japonica	Japanese Aralia	E/Ex	3 x 2m	200mm pot	2
Gc	Gastrolobium celsianum	Sw an River Pea	E/N	0.8 x 1m	200mm pot	6
Go	Goodenia ovata	Hop Goodenia	E/N	1 x 1.5m	200mm pot	8
GCV	Grevillea rosmarinifolia 'Crimson Villa'	Crimson Villa Grevillea	E/N	0.8 x 0.8m	200mm pot	23
HSF	Hydrangea 'Sunday Fraise'	Sunday Fraise Hydrangea	D/Ex	1.2 x 1.2m	200mm pot	10
Lb	Lasiopetal um baueri	Slender Velvet-bush	E/N	1.5 x 1.5m	200mm pot	11
LIF	Leptospermum laevigatum 'Fore Shore'	Fore Shore Tea-tree	E/N	0.5 x 0.8-1m	200mm pot	18
PMM	Pittosporum tobira 'Miss Muffet'	Miss Muffet Pittosporum	E/Ex	1 x 1m	200mm pot	27
ROP	Rhaphiolepis indica 'Oriental Pearl'	Oriental Pearl Indian Haw thorn	E/Ex	1 x 1m	200mm pot	30
Ru	Rhaphiolepis umbellata	Yeddo Haw thorn	E/Ex	1.5 x 1.5m	200mm pot	48
Sr	Sarcococca ruscifolia	Fragrant Sw eet Box	E/Ex	1.5 x 1.5m	200mm pot	23
WBG	Westringia fruticosa 'Blue Gem'	Blue Gem Coastal Rosemary	E/N	1 x 1.2m	200mm pot	22
WfS	Westringia fruticosa 'Smokey'	Coastal Rosemary	E/N	1 x 1.5m	200mm pot	4
WIG	Westingia natiosa onokey	Coustaintosentary		1 × 1.011	TOTAL	363
GROUNDCO	OVERS & GRASSES					
ABR	Anigozanthos 'Big Red'	Big Red Kangaroo Paw	E/N	1 x 0.8m	140mm pot	24
AYG	Anigozanthos 'Yellow Gem'	Yellow Gem Kangaroo Paw	E/N	1 x 0.8m	140mm pot	31
AMB	Arthropodium cirratum 'Matapouri Bay'	Renga Lily	E/Ex	0.6 x 0.6m	140mm pot	12
CFF	Carex oshimensis 'Feather Falls'	Feather Falls Carex	E/Ex	0.3 x 0.5m	140mm pot	75
Cr	Carpobrotus rossii	Karkalla	E/N	Spreading	140mm pot	18
Cs	Convolvulus sabatius	Moroccan Bellflow er	E/Ex	0.3 x 1.5m	140mm pot	42
HVM	Hardenbergia violacea 'Meema'	Meema Purple Coral Pea	E/N	0.3 x 1m	140mm pot	19
KPP	Kniphofia 'Percy's Pride'	Percy's Pride Torch Lily	E/Ex	0.8 x 0.8m	200mm pot	30
LSN	Leucophyta brownii 'Silver Nugget'	Dw arf Cushion Bush	E/N	0.5 x 0.5m	140mm pot	46
LEG	Liriope gigantea 'Evergreen Giant'	Evergreen Giant Lily-turf	E/Ex	0.6 x 0.6m	140mm pot	66
LEC	Liriope muscari 'Emerald Cascade'	Emerald Cascade Lily-turf	E/Ex	0.4 x 0.4m	140mm pot	20
LCS		Seascape Mat-rush	E/N	0.5 x 0.75m	140mm pot	62
LIN	Lomandra confertifolia spp. r. 'Seascape'		E/N	0.8 x 0.6m		130
	Lomandra longifolia 'Nyalla'	Nyalla Mat-rush Tapika Mat-rush			140mm pot	
LIT	Lomandra longifolia 'Tanika'	Tanika Mat-rush	E/N	0.6 x 0.6m	140mm pot	200
MpY	Myoporum parvifolium 'Y areena'	Creeping Boobialla Yareena	E/N	0.1 x 1m	140mm pot	92
Pt	Pachysandra terminalis	Japanese Spurge	E/Ex	0.1 x 0.6m	140mm pot	91
Px	Philodendron x anadu	Xanadu	E/Ex	0.8 x 0.8m	200mm pot	49
РрК	Poa poiformis 'Kingsdale'	Kingsdale Tussock Grass	E/N	0.45 x 0.45m	140mm pot	186
RPr	Rosmarinus officinalis 'Prostratus'	Prostrate Rosemary	E/Ex	0.5 x 1.5m	140mm pot	46
Rh	Ruscus hypoglossum	Butcher's Broom	E/Ex	0.5 x 0.6m	140mm pot	282
Tm	Teucrium marum	Cat Thyme	E/Ex	0.3 x 0.45m	140mm pot	68
TFM	Trachelospermum asiaticum 'Flat Mat'	Yellow Star Jasmine	E/Ex	0.4 x 3m	140mm pot	57
WfM	Westringia fruticosa 'Mundi'	Mundi Coastal Rosemary	E/N	0.4 x 1.5m	140mm pot	120
					TOTAL	177
CLIM BERS	Figure pumile	Climbing Fig	E/G-	Colf olinging Olimber	140mm not	40
Fp	Ficus pumila	Climbing Fig	E/Ex	Self-clinging Climber	140mm pot	10
					TOTAL	10

## EXTENSIVE ROOF GARDEN

SYM	BOTANICAL NAME	COMMON NAME	D/E N/Ex*	HEIGHT X WIDTH AT MATURITY	MIN SUPPLY SIZE	QTY
SEDUMS						
Sg	Sedum glaucophyllum	Cliff Stonecrop	E/Ex	0.1 x 0.3m	50mm tube	300
Sp	Sedum pachyphyllum	Jelly Bean Plant	E/Ex	0.1 x 0.3m	50mm tube	300
Sre	Sedum reflex um	Blue Stonecrop	E/Ex	0.1 x 0.5m	50mm tube	300
Sru	Sedum rub rotinctum	Jelly Bean Plant	E/Ex	0.1 x 0.5m	50mm tube	300
Spp	Sedum spathulifolium 'Purpurea'	Purple Stonecrop	E/Ex	0.1 x 0.3m	50mm tube	300
					TOTAL	1500
		*D/E = Deciduous/Evergreen	N/Ex = Native/Exotic			

## RAIN GARDEN

SYM	BOTANICAL NAME	COMMON NAME	D/E N/Ex*	HEIGHT X WIDTH AT MATURITY	MIN SUPPLY SIZE	QTY
SHRUBS &	GROUNDCOVERS					
Cap	Carex appressa	Tall Sedge	E/N	0.8 x 0.6m	140mm pot	39
Fn	Ficinia nodosa	Knobby Club-rush	E/N	0.8 x 0.8m	140mm pot	39
Go	Goodenia ovata	Hop Goodenia	E/N	1 x 1.5m	140mm pot	19
LfS	Lomandra fluvialtilis 'Shara'	Shara Mat-rush	E/N	0.4 x 0.5m	140mm pot	39
					TOTAL	136
		*D/E = Deciduous/Evergreen	N/Ex = Native/Exotic			







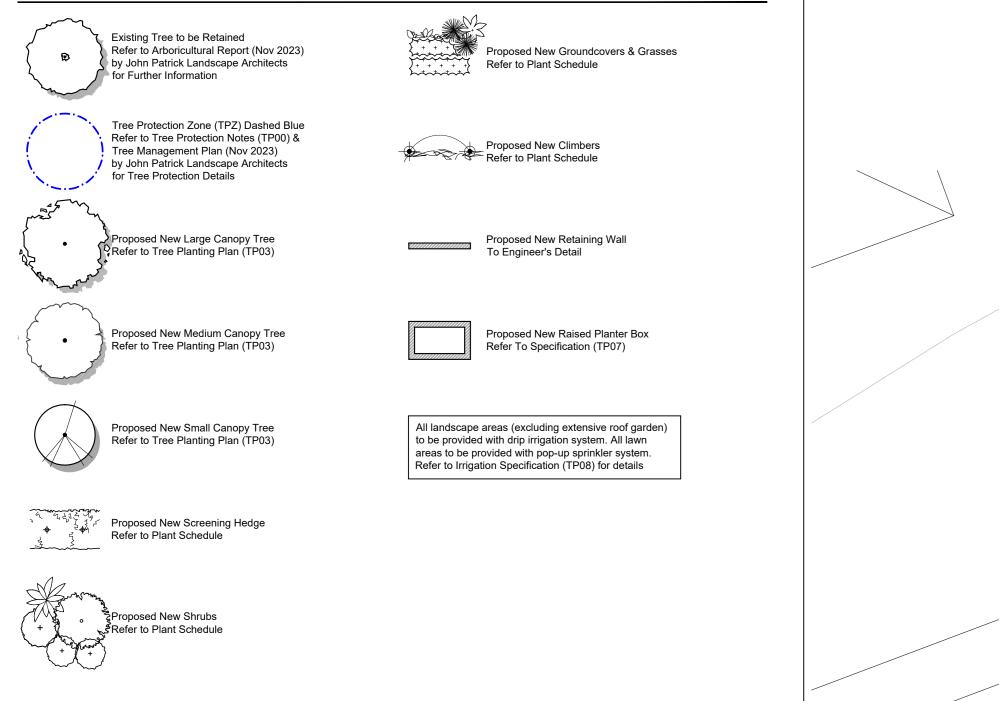
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CLIENT TLC Melbourne Pty Ltd PROJECT **TLC Ivanhoe** 321 Lower Heidelberg Road, Ivanhoe East

DRA₩ING Detailed Planting Plan - South for Town Planning



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## PLANT SCHEDULE - NORTH

SYM	BOTANICAL NAME	COMMONNAME	D/E N/Ex*	HEIGHT X WIDTH AT MATURITY	MIN SUPPLY SIZE	QTY
CREENIN	G HEDGE					
SSN	Syzygium australe 'Straight & Narrow '	Straight & Narrow Lilly-pilly	E/N	6 x 1.5m	300mm pot	23
					TOTAL	23
SHRUBS						
Be	Banksia ericifolia	Heath Banksia	E/N	3 x 3m	200mm pot	8
BMM	Banksia marginata 'Mini Marg'	Dw arf Silver Banksia	E/N	0.6 x 1m	200mm pot	13
CGW	Casuarina glauca 'Green Wave'	Green Wave Casuarina	E/N	1.5 x 1.5m	200mm pot	8
Ca	Correa alba	White Correa	E/N	1 x 1-1.2m	200mm pot	31
Cb	Correa baeuerlenii	Chef's Hat Correa	E/N	1.5 x 1.5m	200mm pot	35
Cg	Correa glabra	Rock Correa	E/N	1.2 x 1.2m	200mm pot	70
DMGS	Dodonaea viscosa 'Mr Green Sheen'	Sticky Hop-bush	E/N	2 x 2m	200mm pot	4
De	Doryanthes excelsa	Gymea Lily	E/N	2.5 x 1.5m	200mm pot	42
ESB	Eremophila glabra 'Silver Ball'	Silver Ball Emu Bush	E/N	0.8 x 1m	200mm pot	51
Go	Goodenia ovata	Hop Goodenia	E/N	1 x 1.5m	200mm pot	39
GI	Grevillea 'Ivanhoe'	Ivanhoe Grevillea	E/N	3 x 2m	200mm pot	6
GM	Grevillea 'Moonlight'	Moonlight Grevillea	E/N	3 x 2m	200mm pot	7
GCV	Grevillea rosmarinifolia 'Crimson Villa'	Crimson Villa Grevillea	E/N	0.8 x 0.8m	200mm pot	8
LIF	Leptospermum laevigatum 'Fore Shore'	Fore Shore Tea-tree	E/N	0.5 x 0.8-1m	200mm pot	65
RTB	Rosmarinus officinalis 'Tuscan Blue'	Tuscan Blue Rosemary	E/Ex	1.2 x 1m	140mm pot	25
Sc	Santolina chamaecyparissus	Cotton Lavender	E/Ex	0.4 x 0.4m	200mm pot	40
TBB	Tristaniopsis laurina 'Burgundy Blush'	Dw arf Water Gum	E/N	1.2 x 1.5m	200mm pot	17
WfS	Westringia fruticosa 'Smokey'	Coastal Rosemary	E/N	1 x 1.5m	200mm pot	16
WBG	Westringia fruticosa 'Blue Gem'	Blue Gem Coastal Rosemary	E/N	1 x 1.2m	200mm pot	47
WN	Westringia 'Naringa'	Naringa Coastal Rosemary	E/N	2 x 1.5m	200mm pot	12
					TOTAL	544
	OVERS & GRASSES					
Ag	Agave geminiflora	Agave	E/Ex	1.5 x 1m	200mm pot	20
Ap	Agave palmeri	Palmer's Agave	E/Ex	1 x 1.5m	200mm pot	10
ABR	Anigozanthos 'Big Red'	Big Red Kangaroo Paw	E/N	1 x 0.8m	140mm pot	46
AYG	Anigozanthos 'Yellow Gem'	Yellow Gem Kangaroo Paw	E/N	1 x 0.8m	140mm pot	45
CFF	Carex oshimensis 'Feather Falls'	Feather Falls Carex	E/Ex	0.3 x 0.5m	140mm pot	88
Cr	Carpobrotus rossii	Karkalla	E/N	Spreading	140mm pot	94
CgCl	Casuarina glauca 'Cousin It'	Cousin It Groundcover	E/N	0.1 x 1-1.5m	140mm pot	148
GGC	Grevillea juniperina 'Gold Cluster'	Gold Cluster Juniper Grevillea	E/N	0.3 x 1m	140mm pot	64
KPP	Kniphofia 'Percy's Pride'	Percy's Pride Torch Lily	E/Ex	0.8 x 0.8m	200mm pot	39
LSN	Leucophyta brownii 'Silver Nugget'	Dw arf Cushion Bush	E/N	0.5 x 0.5m	140mm pot	17:
LcS	Lomandra confertifolia spp. r. 'Seascape'	Seascape Mat-rush	E/N	0.5 x 0.75m	140mm pot	243
MpY	Myoporum parvifolium 'Yareena'	Creeping Boobialla Yareena	E/N	0.1 x 1m	140mm pot	179
РрК	Poa poiformis 'Kingsdale'	Kingsdale Tussock Grass	E/N	0.45 x 0.45m	140mm pot	329
RFB	Rhagodia spinescens 'Flat Bush'	Flat Bush Creeping Saltbush	E/N	0.4 x 1m	140mm pot	109
RPr	Rosmarinus officinalis 'Prostratus'	Prostrate Rosemary	E/Ex	0.5 x 1.5m	140mm pot	11
XMW	Xerochrysum bracteatum 'Mohave White'	Mohave White Paper Daisy	E/N	0.4 x 0.4m	140mm pot	10
Yf	Yucca filamentosa	Adam's Needle	E/Ex	1.5 x 1.5m	200mm pot	17
					TOTAL	172





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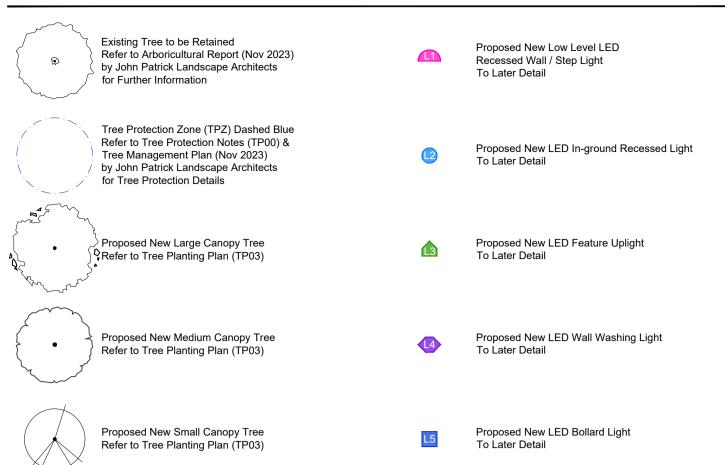
TLC Melbourne Pty Ltd PROJECT **TLC** Ivanhoe 321 Lower Heidelberg Road, Ivanhoe East

Detailed Planting Plan - North for Town Planning



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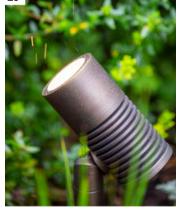
#### LEGEND



## INDICATIVE LIGHTING PALETTE

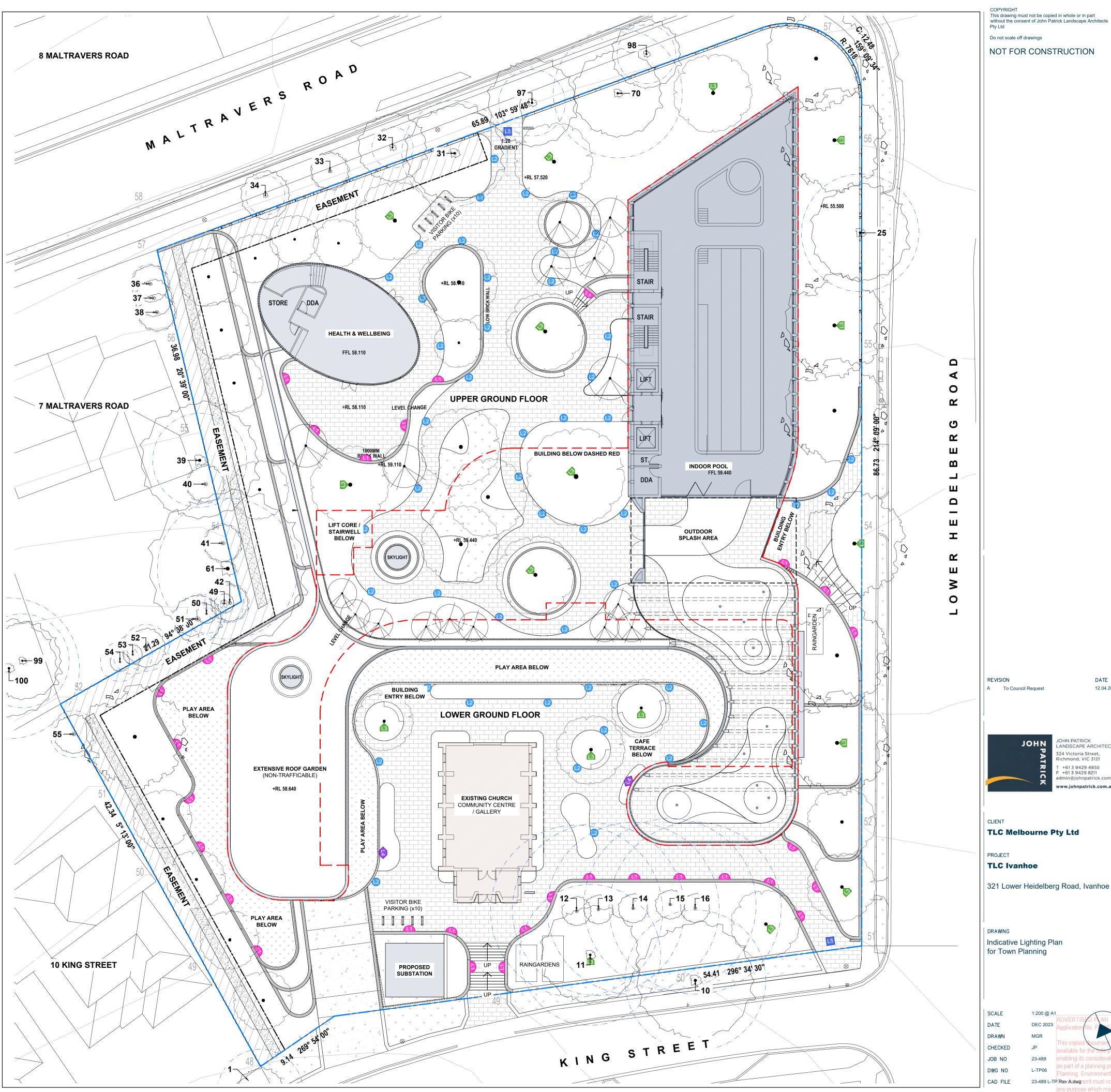












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CLIENT TLC Melbourne Pty Ltd

PROJECT TLC Ivanhoe

321 Lower Heidelberg Road, Ivanhoe East

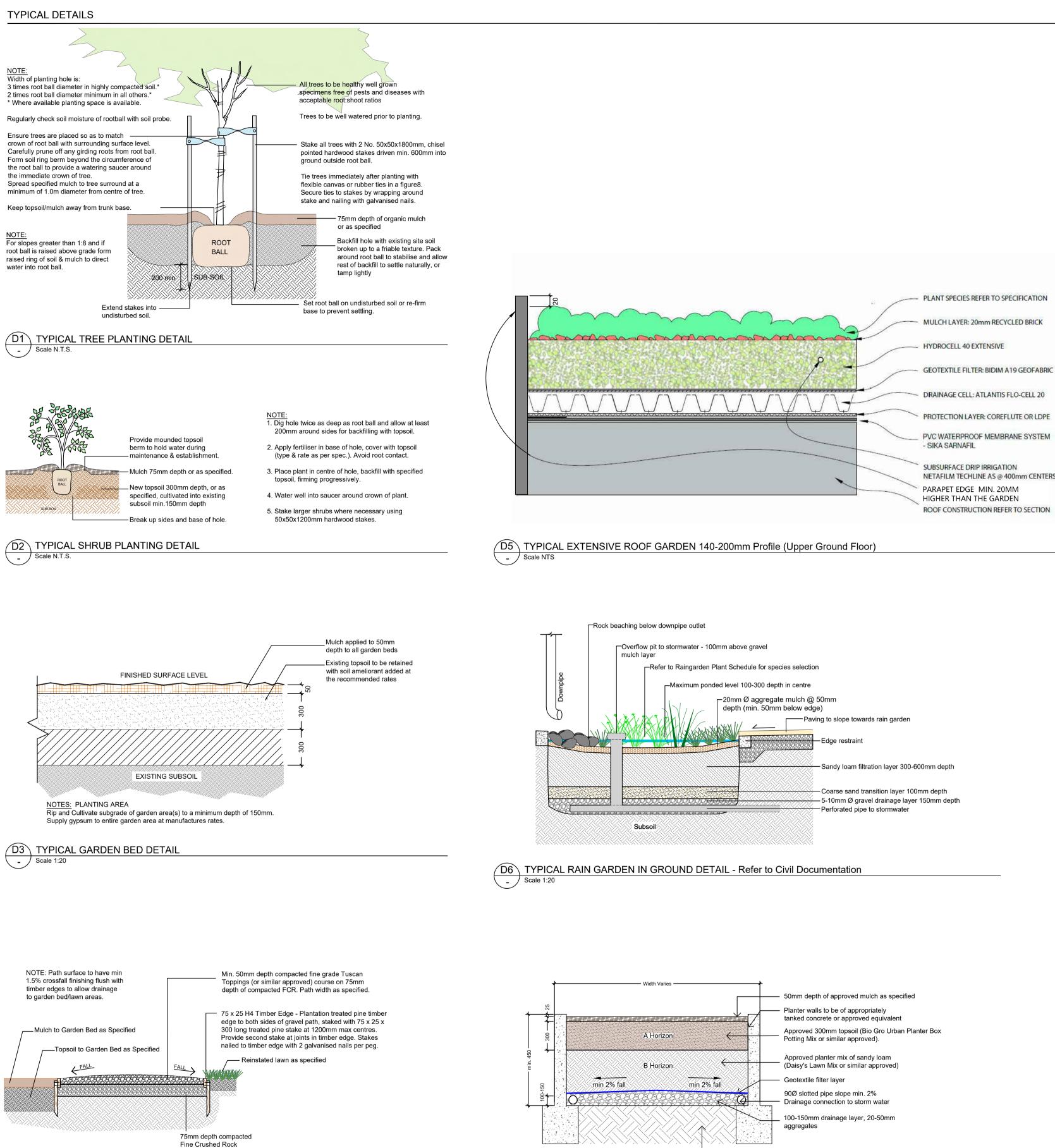
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D4 TYPICAL GRAVEL PATH & TIMBER EDGING DETAIL \_ / Scale 1:20

D7 TYPICAL RAISED GARDEN DETAIL - IN NATURAL GROUND Scale 1:20

Natural ground at base

SUBSURFACE DRIP IRRIGATION

HIGHER THAN THE GARDEN ROOF CONSTRUCTION REFER TO SECTION SPECIFICATION NOTES

Soil Preparation Crushed rock, concrete spillage and any other material restrictive to plant growth (e.g. large rocks) shall be removed from the site of any planting beds and semi-advanced trees. All trees to be removed shall be stump ground and all rubbish/vegetative spoil is to be removed from site. Existing top soil in planting areas is to be preserved so that it does not receive additional compaction from site machinery and so that no rubble or building supplies are stored in these areas.

No imported top soil is to be used within the root zones of trees to be protected. Any preparation of existing soil for planting within these areas is to be done by hand only. Holes (e.g. as the result of plant removal) and uneven soil levels may be patched using topsoil as specified below.

Any imported topsoil is to be free of weeds, rubble and other materials damaging to plant growth and is to be of a medium texture (sandy loam) with a pH of 6.0-7.0. Top soil is to be laid over a prepared sub-base which has had any materials damaging to plant growth (e.g. rubble and large rocks) removed, spread to the appropriate depth and cultivated into the existing site soil to a minimum depth of 150mm.

Imported top soil is to be lightly and uniformly compacted in 150mm layers to a minimum depth of 100mm on lawn areas and 300mm on excavated planting beds.

Weed Removal All weeds shall be thoroughly removed. All vegetative material, including roots and rhizomes of non-woody perennials and woody suckering weeds, is to be removed or appropriately controlled using chemical means. The stumps of non-suckering woody perennials are to be stump ground. All vegetative material shall be appropriately disposed of off site in a manner which will not allow their re-establishment elsewhere. Any chemical controls are to be used in accordance with manufacturer's instructions and standard occupational health and safety procedures.

Care must be taken to ensure that all trees to be retained are not damaged during weed removal. This also implies that any herbicides used are suitable for use around the vegetation to be retained.

Topsoil

- Imported Topsoil for Garden Beds (excluding Raised Planter Boxes) The use of imported topsoil for garden beds shall conform generally to the following
- criteria Imported topsoil for garden beds is to be Medium Texture General Purpose Garden Soil, to comply with AS 4419-2003 Soils for landscaping and garden use,
- and as follows: Free from perennial weeds and their roots, bulbs and rhizomes;
- Free from building rubble, including bricks, concrete, or any other matter deleterious to plant growth; • Free from rocks or stones greater than 25mm in diameter, but in any case, to have
- less than 5% stone by dry weight;
- PH to be 6.0 7.0; Texture to be light to medium friable loam;
- Free from silt material.

Imported topsoil for nature strip lawns shall also have the above characteristics, but shall be a free-draining sandy loam.

'TifTuf Hybrid Bermuda' turf (or similar) is to be supplied to lawn areas as shown. Turf is to be supplied by a specialist grower and is not to be allowed to dry out between cutting and laying. Turf should be laid in a stretcher pattern so that joints are staggered and is to be lightly tamped following laying. All lawn areas are to be thoroughly watered following planting and fertilised with an appropriate lawn starter at the quantities recommended by the manufacturer.

Planting shall be carried out using accepted horticultural practices with all plants conforming to the species, size and quantities indicated on the Landscape Plan and Plant Schedule. Plants shall be thoroughly soaked through immersion in water prior to planting and if the planting soil is very dry then the planting hole is also to be filled with water and allowed to drain completely

All plants shall be appropriately hardened off in the nursery. Use plants with the following characteristics: Large healthy root systems with no evidence of root curl or pot bound restriction or damage, vigorous, well established, free from disease and pests and of good form, consistent with the species or variety.

Planting holes for shrubs and groundcovers are to be of minimum size 75mm larger than the planting pot in all directions. Semi-advanced tree planting holes are to be the same depth as the rootball and 2-3 times its diameter, with the top of the rootball being at grade. A 75mm high berm is to be constructed at edge of root-ball to hold water. All plants are to be thoroughly watered after planting and slow release fertiliser added at the quantities specified by the manufacturer.

#### Mulch Garden Beds

Mulch is to be supplied to all garden beds and is to be an organic type laid to a minimum depth of 50mm, consisting of fine dark coloured chipped or shredded pine bark or hardwood with not more than 5% fines content by volume (preferably zero fines). The average size of the woodchip must be approximately 10mm x 20mm x 5mm and the maximum length is not to exceed 30mm. Mulch shall be free of damaging matter such as soil, weeds and sticks and is to be stockpiled and thoroughly weathered prior to delivery. Mulch is to be kept back 100mm from the stems of all plants to prevent collar rot. For planter boxes, refer to Raised Planter Boxes Mulch specification note.

#### **Raised Planters**

Mulch is to be supplied to all raised planter box garden beds and is to be 'Water Saver Range' mulch from Bio Gro in small grade size. Allow for 50mm layer of specified mulch to top of beds and a finished level 25-50mm below the planter rim. Drip irrigation as specified is to be installed beneath the mulch layer

#### Granitic Gravel Surface

Granitic gravel is to be installed where shown comprising of a 50mm layer of gravel (Tuscan Toppings or similar) over a base course of 75mm deep gently compacted Fine Crushed Rock. Each layer, including the subgrade is to be appropriately compacted.

Timber Edges

Provide 75 x 25mm treated pine edges to all borders between gravel mulch paths and garden beds using 75x25x300mm long treated pine stakes at 1200mm maximum centres. An additional stake is to be provided at joins in the plinth

date.

PROTECTION LAYER: COREFLUTE OR LDPE PVC WATERPROOF MEMBRANE SYSTEM

NETAFILM TECHLINE AS @ 400mm CENTERS PARAPET EDGE MIN. 20MM



# Drainage

Connect Agricultural drains to storm water. Raised Planter Boxes

Drainage Detail

Each bed to be drained with Atlantis Flo-Cell® 30 mm installed according to the manufacturer's specification, with connection to the stormwater system. Depth of cell system 30 mm, weight of cell system 33 kg/sq m saturated, depth of blinding sand layer above cell layer 25 mm, weight of sand layer saturated 50 kg/sq m. Total weight drainage layer 83 kg/sq m saturated.

Substrate - Bio Gro Planter Box Potting Mix

This raised planter mix may be ordered and prepared as special batch by Bio Gro (Contact Michelle Torcasio 03 8788 1700). This medium will guarantee support for a long-term outcome to alleviate potential soil level dropping issues and compaction. Substrate Composition

Structure:

Fertilisers:

Substrate Properties



Agricultural drains are to be installed to garden beds. Pipes shall be 90mm diameter slotted P.V.C. flexible coil laid with one line of perforations at the bottom. Trench floor is to be uniformly graded, with falls directed towards pits and bed pipes on a continuous 75mm layer of screenings. Tees, couplings or adapters suitable for the works required are to be used at the junctions of pipes with pipes to be surrounded with open graded crushed rock to 100mm with opened graded crushed rock to 100mm above pipes.

Raised planter construction is to include, but not necessarily be limited to, the supply and installation of agricultural drains, drainage cells at base, filter fabric, planting medium, mulch and irrigation. Planter boxes must be effectively tanked and lined with coreflute to prevent leaking.

#### Substrate Specification - (General)

Supply and spread evenly Bio Gro Planter Box Potting Mix (source Bio Gro Pty Ltd). Compact evenly in 150mm layers/lifts. Avoid differential subsidence and excess compaction and produce a finished surface that is graded evenly and ready for planting.

The nominated mix for raised planters shall conform to the following criteria

- 60% Composted Pine Bark 25% Coco Peat
- 25% Scoria
- 2kg/m3 Osmocote Pro (12-14 month)
- Osmocote NXT Dolomite Lime
- Granular Re Wetting Agent
- Ferrous Sulphate
- Trace Elements Gypsum Fine
- Gypsum Coarse
- Calcium Nitrate
- Superphosphate Copper Sulphate
- Fine lime for pH adjustment
- pH: 5.5 6.00

Bio Gro Planter Box Potting Mix to be tested by Bio Gro before supply. The following substrate properties are test results on a previous product, batched and dispatched.

- Dispatch estimated weight (per m<sup>3</sup>): 650-700kg
- Saturated bulk density (per m<sup>3</sup>): ~850-900kg Air filled porosity (AFP): 11-13%
- Water-holding capacity (WHC): Supplied mix to be tested
- pH: 5.8 6.00
- Electrical conductivity (EC): 1.25 • Cation exchange capacity (CEC): NA (Requires external lab testing)
- Infiltartion rate: Supplied mix to be tested
- Ammonium <20: <20

#### Repair/Restoration of damaged Nature-strips

Nature strips are to be restored to current grades with any depressions filled with topsoil to specifications above and lightly compacted in 150mm layers. Areas are then to be re-seeded using an appropriate and matching turf type and the area fenced off to allow the re-establishment of lawn. Re-seeded areas are to be well irrigated and the area supplied with a slow release fertiliser at the quantities recommended by the manufacturer.

Any areas of lawn which have failed to germinate (achieve an evenly green 95% covering of a consistent height) are to be re-seeded within one month of original sowing

#### Plant Establishment Period

There shall be a 13 weeks Plant Establishment Period following the approval of Practical Completion by the responsible authority. During this period the landscape contractor shall make good all defects in his/her scope of works. Maintenance and Establishment means the care and maintenance of the contract area by accepted horticultural practices, as well as rectifying any defects that become apparent in the work under normal use. This shall include, but shall not be limited to watering, fertilising, weeding, pruning, pest and disease control, cultivation, re-staking and replacement of any plants that fail with plants of the same species and size.

REVISION To Council Request DATE 12.04.2024 MGR



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**TLC Melbourne Pty Ltd** 

PROJECT **TLC Ivanhoe** 

321 Lower Heidelberg Road, Ivanhoe East

DRAWING Typical Details & Specification Notes for Town Planning

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AS SHOWN @ A1 DEC 2023 Application No. P4/2024

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01 EXTENT OF WORKS The landscape contractor is to design, supply and install a complete and effective automatic, irrigation system to all garden beds and trees. This system is to be connected to a mains supply.

The landscape contractor is to submit 3 sets of irrigation design plans for approval at least 2 weeks prior to installation.

The Landscape Contractor shall allow for the supply and installation of a pump (if required), UPVC pipework, solenoid valves, filters, pressure regulators, automatic controller, integrated dripline, fittings and solenoid valve multicore wiring of sufficient length to reach the proposed automatic controller location.

The Landscape Contractor shall ensure that methods chosen, irrigation theory and practice applied, equipment selected, materials incorporated, installation techniques used and maintenance procedures adopted, shall provide the most appropriate, effective and robust system for the long-term maintenance of the new landscape.

Upon completion of the contract, the site shall be left in a tidy condition free from rubbish and surplus excavated materials, to the satisfaction of the Landscape Architect.

Scope: This guide is to be used in conjunction with standard Council Irrigation Specifications which usually do not provide any specific details regarding the installation of drip irrigation systems both under mulch or sub-surface. The information in this guide should be used when installing drip irrigation system in conjunction with further product details on the irrigation plan. Specification on the irrigation plan will always take precedent over the information in this guide. Under no circumstances are any variations to be made to the drip system design or installation without prior authorization from the site supervisor.

#### 02 STANDARDS AND WORKMANSHIP

All work, materials, methods and testing shall conform to the requirements of the relevant Australian Standards and Codes. The most recent issue of the Standards shall apply.

03 WARRANTIES AND GUARANTEES The Landscape Contractor shall warranty the entire system against faulty workmanship and materials during the Defects Liability Period - 52 weeks from the Date of Practical Completion. The Sub-contractor shall meet all the cost of repairing and making good defective work and replacement of components during the Defects Liability Period.

At Practical Completion the Irrigation Sub-contractor shall provide the Landscape Architect with an Operations and Instruction manual, which shall include a list of all components used in the system, together with their brand names and model numbers. 04 SOLENOID VALVE

Solenoid valve is to be installed to the main-line and housed in a lockable valve box (at least 250mm in diameter) that shall have sufficient room to access and maintain the valve. All wiring into the valve enclosure shall be looped to allow for expansion and contraction and servicing. Only one valve per valve box unless otherwise agreed with the site supervisor. All valve boxes shall be supported by bricks to ensure that the valve box does not come in direct contact with the pipe work. The contractor shall place gravel to a depth of 50mm in the bottom of the valve enclosure.

#### 05 FILTERS

Arkal disc filter with a mesh size of 120 mesh (130 micron) shall be installed on all drip-lines either immediately downstream of the solenoid valve or at the head works. Ensure that the filter is fully installed prior to the flushing of any drip-lines or sub-mains. Filter shall be accessible for servicing and installed in an appropriately sized valve box which shall be free of any dirt or debris. The contractor shall place gravel to a depth of 50mm in the bottom of the valve enclosure.

#### 06 TECHFILTER

Tech-filter is required wherever the drip-line is buried directly into the soil (SDI) and installed immediately downstream of the filter. Ensure that the Techfilter is installed prior to the installation of any drip-line. Tech-filter shall be accessible for servicing and installed in an appropriately sized valve box which shall be free of any dirt or debris. The contractor shall place gravel to a depth of 50mm in the bottom of the valve enclosure. The contractor shall also ensure that the appropriate back-flow device is used whenever a Tech-filter is used. The contractor shall also record the date that the Techfilter cartridge should be changed (normally every two (2) years) and fix this to the Techfilter body.

#### 07 PRESSURE REDUCING VALVE

Pressure reducing valve is to be installed downstream of the Filter (or in SDI, Tech-filter). Ensure that the pressure reducing valve is accessible for adjustment (refer to flow & pressure data on plan) and servicing purposes and housed in an appropriately sized valve box which shall be free of dirt or debris. The contractor shall place gravel to a depth of 50mm in the bottom of the valve enclosure. Pressure regulators shall be adjusted to achieve a minimum of 120kPa at the furtherest flush or vacuum air valve from the solenoid valve.

#### 08 DRIP-LINE INSTALLATION

installed in a grid formation. All lateral lines will be connected to a feed and collecting sub-main. All lateral lines are to be installed according to the plans provided ensuring that all laterals are laid uniformly, free of any kinks or restrictions and are staked down at regular intervals.

Unless	otherwise	specified of	on the	irrigation	plan	all	drip-line	is	to	be
recommendations listed below: (mm) surface (mm)										
Soil Typ	e   Drip Spa	acing   Later	al Spac	ing Min.   [	Depth	Belo	w Surface	e		
Light	300		300		50			_		
Medium	400		400		100					

#### 500 125 Heavy 500 09 AIR/VACUUM RELEASE VALVES

Air/vacuum release valves are to be installed at the highest point on each drip station preferably at the highest point on all feed and collecting lines. ). Where headers / collectors are lower that the tube, a vacuum release header shall be installed, complete with extra AVR's as required. Th contractor shall locate the air/vacuum release valves in consultation with the site supervisor prio to installing them in an appropriately sized valve box which shall be free of any dirt or debris. The contractor shall place gravel to a depth of 50mm in the bottom of the valve enclosure.

The contractor shall also allow for an additional 30% more AVR's to allow for site conditions AVR's shall be installed at a minimum of 1 per 45lpm of flow

## 10 FLUSH VALVES

Flush valves shall be installed at either the lowest or furthest point on all feed/collecting sub-mains. The contractor shall locate the flush valve in consultation with the site supervisor prio to installing them in an appropriately sized valve box which shall be free of any dirt or debris. The contractor shall place gravel to a depth of 50mm in the bottom of the valve enclosure.

#### 11 PRESSURE REDUCING VALVE

Ensure that the pressure reducing valve is functioning properly. Test the line pressure at the furthest point of the drip-line to ensure that correct operating pressures are maintained. Adjust the pressure reducing valve accordingly.

#### 12 PUMP

The Landscape Contractor shall allow for the supply & installation of a pump to be connected t each Rainwater Tank. The pump will need to be a vertical multistage with variable frequency drive to cater for dripline.

#### 13 INSTALLATION & HANDOVER

Thoroughly flush the drip-line out at least three times prior to checking the drip-line to ensure that there are no leaks from any fittings or any damage to the drip-line. Drip-line maximum run lengtl shall not be exceeded (refer to plan). The contractor shall notify the supervisor 24 hours prior t testing and backfilling.

The contractor shall record the flow rate - after the pressure has stabilised - of each drip station for a minimum period of 10 minutes. These figures to be used in future testing/maintaining of the drip system. This data will be forwarded onto the site supervisor for future reference, and also recorded on the as constructed drawings.

Upon practical completion the contractor will handover the system to the site superviso Handover will include: Practical run down of the system installation & operation;

- Back-flow registration form;
- "As laid plan" of the irrigation system;
- Manufacturer's manuals; Drip station flow data, including pressure drop across the filters.

14 SYSTEM MAINTENANCE System maintenance shall take place at the start, midway and end of the irrigation season.

## 15 AUTOMATIC CONTROLLER AND PROPOSED LOCATION The location of the irrigation controller is to be placed externally at a suitable location to be

determined by the Superintendent.

## 16 DRIPLINE IRRIGATION ZONES

All sub-surface Dripline shall be brown in colour with an outside diameter of 15.3mm and an inside diameter of 12.9mm and shall be connected to 25mm LDPE, sub-mains, using a NETAFIN L16SP-NG connector. All sub-surface Dripline shall be the following:

NETAFIM - Techline AS 15.3mmØ dripline with 1.6 LPH, self-cleaning, pressure compensatin trickle emitters spaced at 0.3 metre centres.

#### 17 COMMISSIONING

The Landscape Contractor shall be responsible for the testing and satisfactory performance o the complete irrigation system. The Landscape Contractor is to allow for onsite training in the operation of the automatic irrigation system.

18 MAINTENANCE & DEFECTS LIABILITY PERIOD

The Landscape Contractor shall maintain the completed and commissioned irrigation system for a period of 52 weeks after the Date of Practical Completion.

LANDSCAPE MAINTENANCE SCHEDULE

the	Maintenance Tasks	Aim	Inspection Method & Activity Frequency	Maintenance Method	Mainten Task		Aim	Inspection Method & Activity Frequency	Maintenance Method	
			ance w orks in accor	dance w ith the Aims and to accord uirements listed below :	Execute maintenance w orks in accordance w ith the Aims and to accord w ith the Performance Requirements listed below :					
ably than The orior The ons.	Weed Control	To maintain garden beds - plantings free from w eeds	Visual –monthly	No w eed infestation in garden areas. Weed all soft landscape areas by appropriate techniques depending upon level of w eed infestation and type of w eed. Low level infestation of annual w eeds can be removed by hand. Perennial w eeds to be removed by appropriate techniques w hich may include localised use of herbicides. Undertake the required Safety Warnings and isolation to safeguard tenants.	Inspect tree	es	To maintain active plant health	Visual-monthly	Inspect trees including ties on all tree stakes and re- adjust as required to provide support and movement to new ly established trees. Replace broken and lost stakes as required and undertake formative pruning, removing deadw ood, crossing branches and shaping canopy as required for long term health and structure of trees. Check trees for evidence of insect damage undertaking	
brior The the the d to ency that	Plant Replacement	To maintain the garden beds free from failed plants	Visual – min. monthly, or as requested for urgent items	Failed plants replaced within three months of failure. Replace plants that have died or been removed to ensure planting maintains density at establishment. Where a species show s losses that suggest it is inappropriate for the location. Establish new planting at a density appropriate for the mature grow th of the plant. In the event of failure of plants details of an alternative treatment must be submitted to and approved by the responsible authority. The alternative treatment must be implemented within three months of approval at no cost to Council and to the satisfaction of the responsible authority.	Staking		To maintain active plant health	Visual - monthly	control as required. Existing staking maintained plumb until trees become self-supporting. Plant ties maintained sufficiently taut to support the plant while allow ing a reasonable degree of movement and normal plant grow th. Replacement plants staked and tied as scheduled. Stakes removed from trees when individual specimens show s signs of having achieved good stability. Tree ties shall be loosened as required to allow for	
ation the also isor.	Fertilising	ground covers) in healthy grow ing	required during the	Apply appropriate slow release plant fertiliser to all planted areas at recommended rates prior to the application of mulch. Foliage healthy, with no symptoms of nutrient deficiencies. Plants show ing signs of active grow th, appropriate to			To maintain active plant health –		future grow th and recognise the grow th of the previous 6 months. As required, to established / maintain landscape garden character and to maintain safe/clear access along pedestrian and vehicular access w ays. Prune all shrubs, ground covers and grasses as required using appropriate pruning techniques for	
	Materia (	To maintain active healthy grow th of all plant materials and to maintain irrigation system in good w orking	Visual – monthly	the season. No visible sign of w ilting leaves or stems. All plants fully turgid at all times. No signs of over w atering such as constantly w et soil, brow n leaf margin, and stem rot or brow n spots on	Pruning ger		remove dead, damaged and diseased plant parts		specific plant type and for intended landscape purpose. Remove deadw ood, prune to shape and remove excessively w oody & herbaceous grow th to encourage the development of new shoots. Do not clip to a mound form, rather prune to reflect the natural shape and form of the plant.	
be I an	Watering / Irrigation	order. Irrigation clock to be accessible by Superintendent		foliage. Review performance of irrigation system checking for leaks throughout system and replacing fittings as required. Check performance of drippers and clean as required.	Pruning hee	dges	To maintain active plant health		Prune hedges to top and sides to encourage appropriately dense grow th. Tidy grasses and emergents by thinning and removing	
FIM	0	and appointed Gardener	Annual inspection	Replace batteries in timers. Run the irrigation system for an extended period to allow inspection of all drippers.	Ornamenta Grasses		plant health and to	visual – annually	old grow th to the base, do not prune by clipping to shape but retain the natural plant form by thinning in preference to cutting back.	
e of the	Disease & Pest Control	To maintain plants free of pest and disease	Visual – monthly	No visible signs of pests or disease or effects thereof. Fortnightly rectification as necessary using IPM protocols. Plant replacement strategy in place if required.	Rubbish rei litter		Maintain in tidy appearance		Keep raised planters tidy and in good health replenish mulch as necessary, in line with landscape vision Maintain as required if urgent. Divide perennial plants as grow th becomes over-mature to retain vigour and health of plants. Retain vigorous	
or a		To maintain a supply of mulch material to the soil.		Maintain mulch to specified depths and finishes (50- 75mm). Re-distribute mulch to all garden bed areas by pulling mounds from the base of plants and raking to apply at nominal depth of 50mm. Use appropriate w ell-rotted organic mulch to match existing to make up shortfall in	Arboricultu monitor Training clii		Training of	appointment	edge portions of plant and discard aged material re- planting at a density that reflects the ultimate size of the plant. Apply w etting agent (Saturaid or similar equivalent product) to all planted garden bed areas follow ing the breaking up of compacted soil areas. Assess all climbing and remove dead grow th from	
	Organic Mulch	To reduce moisture loss from the soil. To maintain a high aesthetic quality to all garden beds.	Visual –monthly	mulch depth throughout garden beds. Apply new mulch to existing mulched areas only after lifting areas of compacted mulch. Replenish w ell-rotted garden mulch w ith matching mulch.	plants Garden Lig (recommen Furniture & fencing	hting nded)	climbers Maintain operation Maintain operation	Annual	w ithin the plant mass to secure open healthy grow th. Check operation of site lighting replacing broken parts as required. Replace all bulbs regardless of performance to secure appropriate performance through next tw elve months. Check on site furniture and fencing and repair/make good or replace as required.	
				Maintain mulch neatly w ithin garden bed. Minimum monthly tidy.						

installed to the

enance Method
nd to accord

REVISION A To Council Request

DATE BY 12.04.2024 MGR



OHN PATRICK ANDSCAPE ARCHITECTS PTY LTD 24 Victoria Street ichmond, VIC 3121 +61 3 9429 4855 +61 3 9429 8211 dmin@johnpatrick.com.au www.johnpatrick.com.au

CLIENT

**TLC Melbourne Pty Ltd** 

PROJECT **TLC Ivanhoe** 

321 Lower Heidelberg Road, Ivanhoe East

DRAWING Irrigation Specification & Landscape Maintenance Schedule for Town Planning

> MGR JP

SCALE
DATE
DRAWN
CHECKED
JOB NO
D₩G NO
CAD FILE

N/A @ A1 DEC 2023 Application No. P4/2024

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