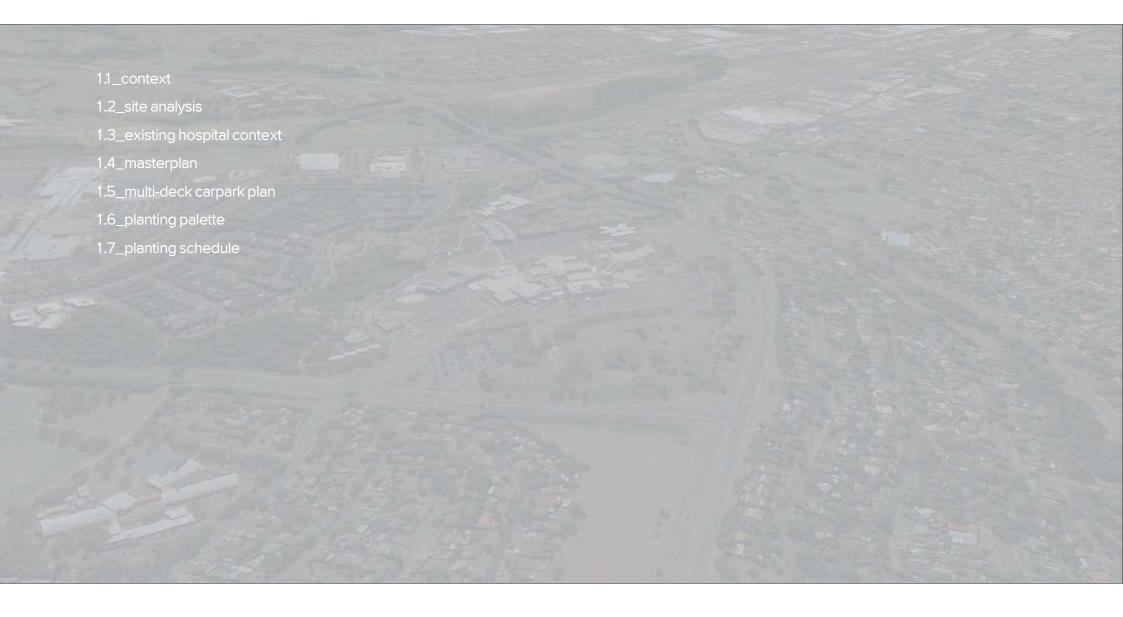
# CAMPBELLTOWN HOSPITAL CARPARK CAMPBELLTOWN

REVISED DEVELOPMENT APPLICATION MARCH 2018



### LANDSCAPE CONTENTS



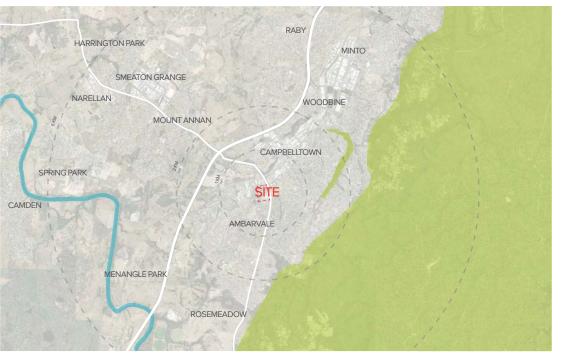


DEVELOPMENT APPLICATION

CAMPBELLTOWN HOSPITAL CARPARK CAMPBELLTOWN 
 PREPARED BY
 Arcadia Landscape Architecture
 DATE
 MAR 2018

 CLIENT
 Health Infrastructure NSW
 SCALE
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 Billard Leece Partnership
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regional context

local context



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### LANDSCAPE SITE ANALYSIS - MULTI-DECK CARPARK



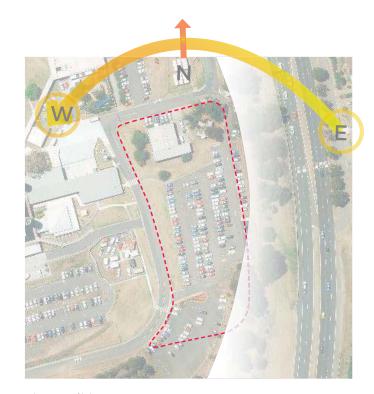
### existing vegetation

The site is located on the eastern edge of the hospital site. Existing trees are dotted around the perimeter of the site particularly to the adjacent embankment up to the Appin street.



### existing road network

The existing site sits adjacent to a major road connection through the hospital. The proposed multi deck carpark will sit on top of an existing carpark as well as being in close proximity to two smaller carparks.



site conditions The site slopes down steeply from Appin Rd to the site.



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### LANDSCAPE EXISTING HOSPITAL CONTEXT





hospital context



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### LANDSCAPE MASTERPLAN





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### LANDSCAPE MULTI-DECK CARPARK PLAN





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### LANDSCAPE PLANTING PALETTE





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### LANDSCAPE PLANTING SCHEDULE

CODE	BOTANIC NAME	COMMON NAME	MATURE SIZE (hxw)(m)	PROPOSED POT SIZE	QUANTITY
	TREES				
Ap Ecr Efi Emo Esi Ete Md	Acacia parramattensis Eucalyptus crebra Eucalyptus fibrosa Eucalyptus moluccana Eucalyptus sideroxylon Eucalyptus tereticornis Melaleuca decora	Parramatia Wattle Narrow Leaved Ironbark Red Ironbark Grey Box Mugga Ironbark Forest Red Gum White Feather Honeymyrtle	15 x 7 25 x 15 25 x 15 25 x 15 25 x 15 25 x 15 25 x 15 10 x 5	75L 75L 75L 200L 100L 100L 75L	17 15 4 15 10 24 24
ATIVE	SHRUB MATRIX 01 SCHEDULE	•	•		
Bo Ac Bs Af Ds Ia Ls Du Hv Dv Ps	Breynia oblongifolia Asperula conferta Bursaria spinosa Acacia falcata Dillwynia sieberi Indigofera australis Lissanthe sitrgosa Daviesia ulicifolia Hardenbergia violacea Dodonaea viscosa cuneata Pimelia spicata	Coffee Bush Common Woodruff Blackthorn Sally Watle Siebers Parrot Pea Native Indigo Peach Heath Gorse Bitter Pea Native Sarsaparilla Wedge Leaf Hop Bush Spiked Rice Flower	$\begin{array}{c} 2 \times 1.5 \\ 0.5 \times \text{spreading} \\ 3 \times 1.5 \\ 1.5 \times 1.5 \\ 1.5 \times 1.5 \\ 0.75 \times 0.75 \\ 1 \times 1 \\ 0.5 \times \text{spreading} \\ 2 \times 1.5 \\ 0.5 \times 0.5 \\ \end{array}$	150mm tubestock 150mm tubestock tubestock tubestock tubestock tubestock 150mm tubestock	75 494 148 75 494 494 370 148 494 91 370
ATIVE (	GRASSES MATRIX 01 SCHEDULE				
AAV PF LKD LT DI	Anigozanthos 'Amber Velvet' Phormium 'Flamin'' Lomandra 'Katrinus Deluxe' Lomandra Tanika' Dianella longifolia	'Amber Velvet' 'Flamin'' Phormium 'Katrinus Deluxe' 'Tanika' Blue Flax Lily	0.5 x 0.4 0.9 x 0.9 0.7 x 0.7 0.6 x 0.65 0.75 x 0.75	tubestock tubestock tubestock tubestock tubestock	4656 2801 4656 3723 2801
ATIVE	GRASSES MATRIX 02 SCHEDULE				
DA LJR AGV DB Dl	Dianella 'Aranda' Liriope 'Just Right' Anigozanthos 'Gold Velvet' Dianella 'Blaze' Dianella longifolia	'Aranda' 'Just Right' 'Gold Velvet' 'Blaze' Blue Flax Lily	0.3 x 0.35 0.5 x 0.5 0.6 x 0.5 0.45 x 0.5 0.75 x 0.75	tubestock tubestock tubestock tubestock tubestock	2871 1235 2871 2463 1235
BERM GI	RASSES MATRIX 01 SCHEDULE				
LT LN AGV LKD Dl	Lomandra 'Tanika' Lomandra 'Nyalla' Anigozanthos 'Gold Velvet' Lomandra 'Katrinus Deluxe' Dianella longifolia	'Tanika' 'Nyalla' 'Gold Velvet' 'Katrinus Deluxe' Blue Flax Lily	0.6 x 0.65 0.9 x 0.9 0.6 x 0.5 0.7 x 0.7 0.75 x 0.75	tubestock tubestock tubestock tubestock tubestock	156 156 156 156 156
BIORETE	ENTION MATRIX SCHEDULE	- 1			
Ba Ca In Ju Lt	Baumea articulata Carex appressa Isolepis nodosa Juncus usitatus Lomandra Tanika'	Jointed Twig Rush Swamp Sedge Knobby Club Rush Common Rush Tanika Mat Rush	1 x 1 1 x 1 1 x 1 1 x 1 1 x 1 1 x 1	tubestock tubestock tubestock tubestock tubestock	511 511 511 511 511 511

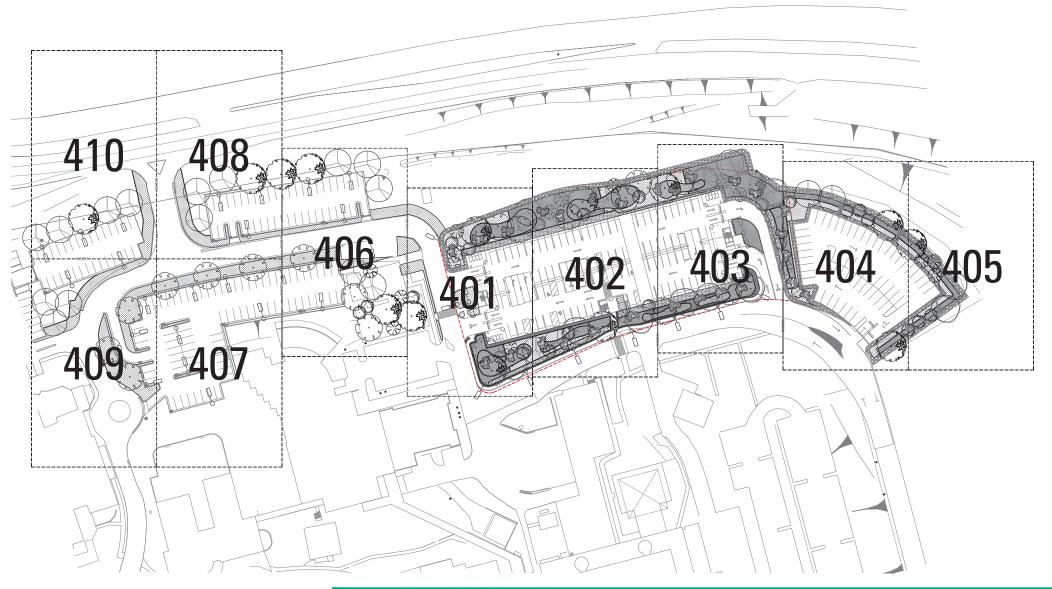


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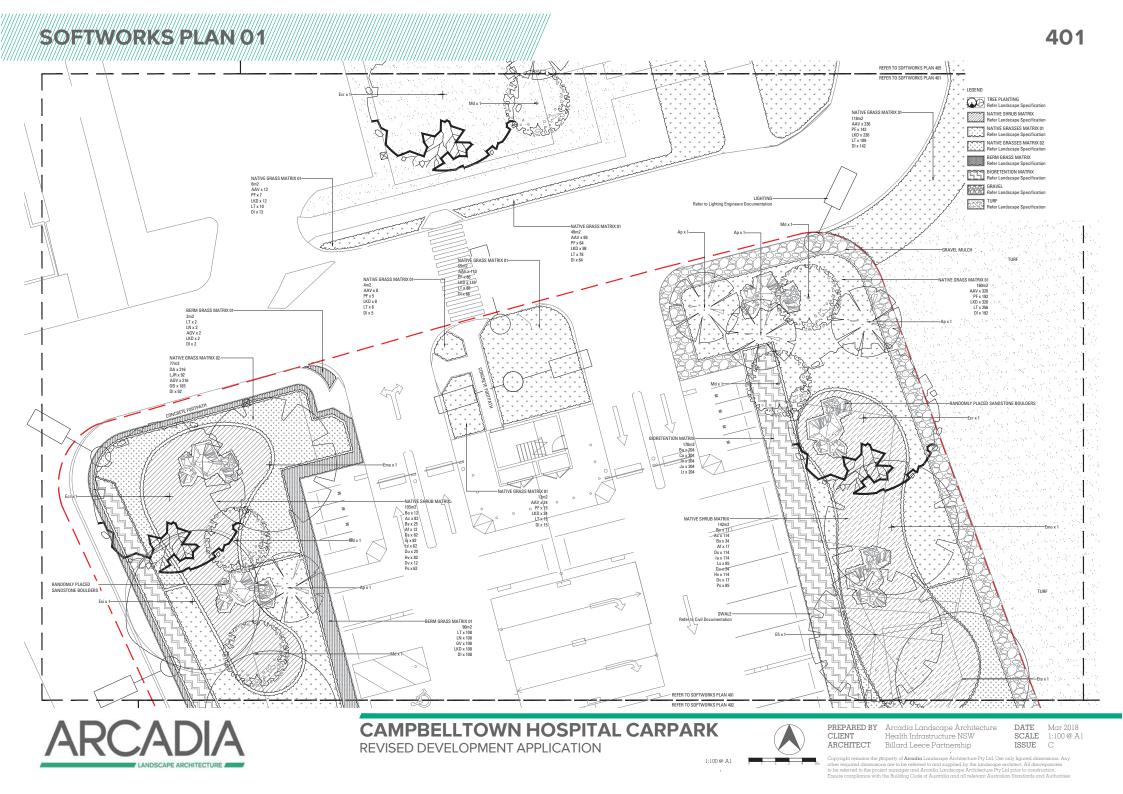
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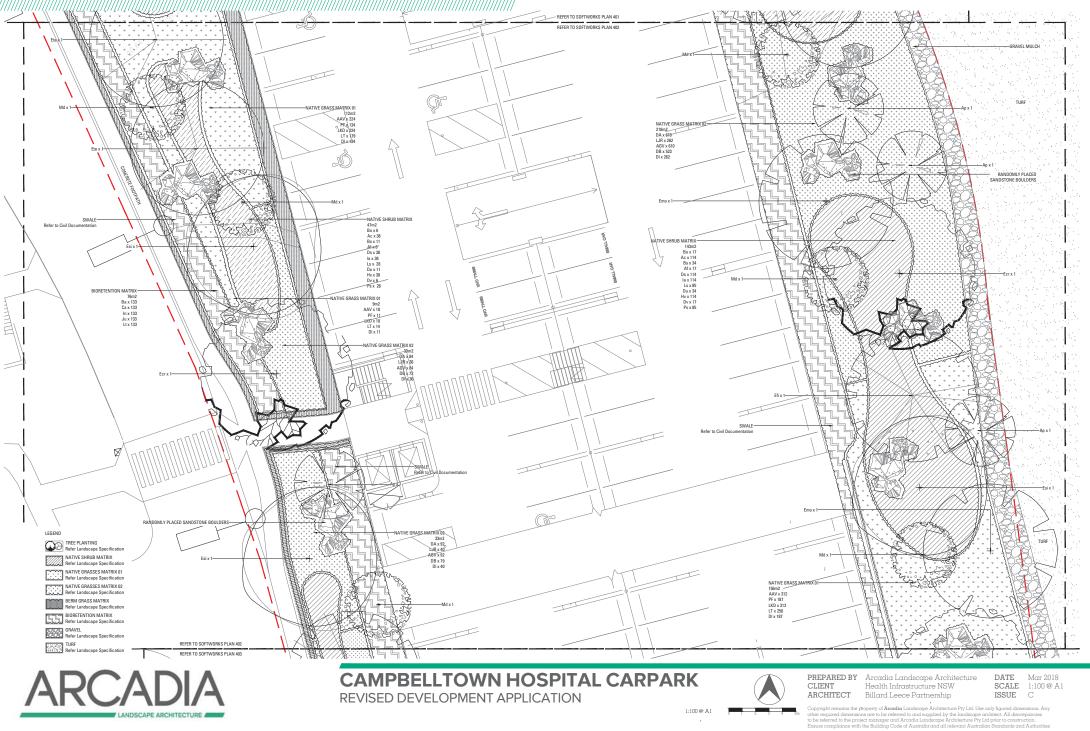
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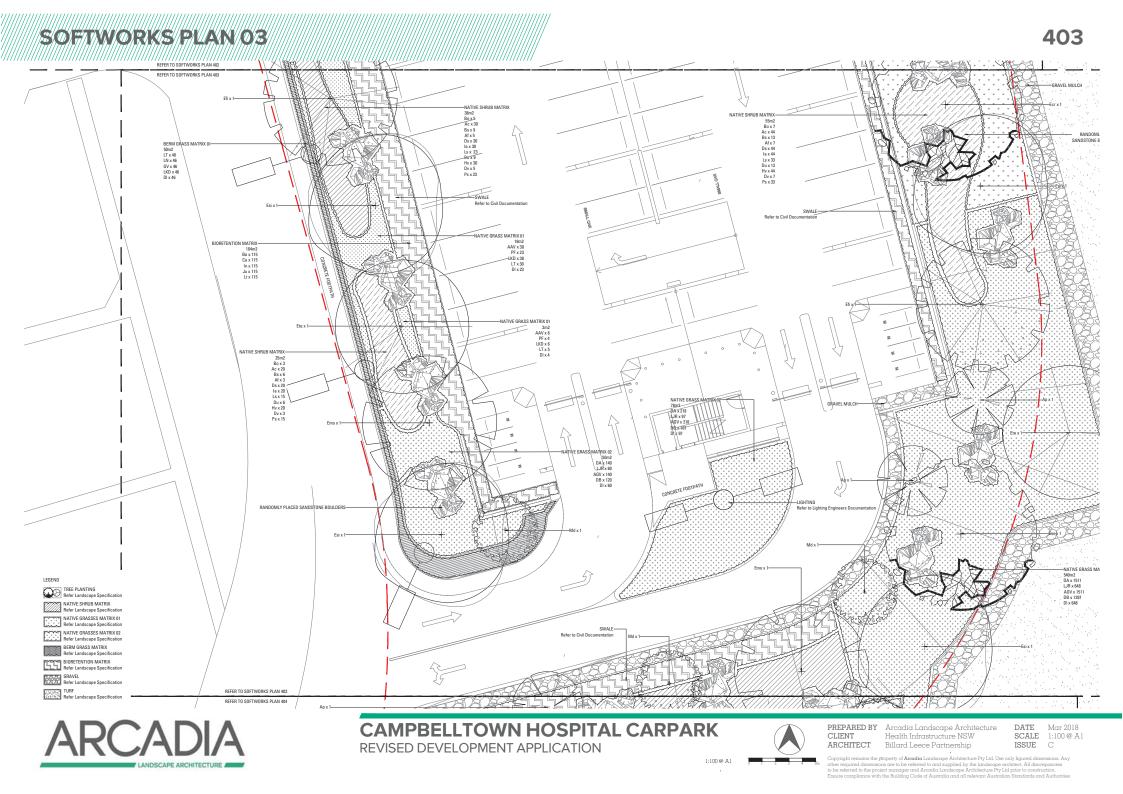
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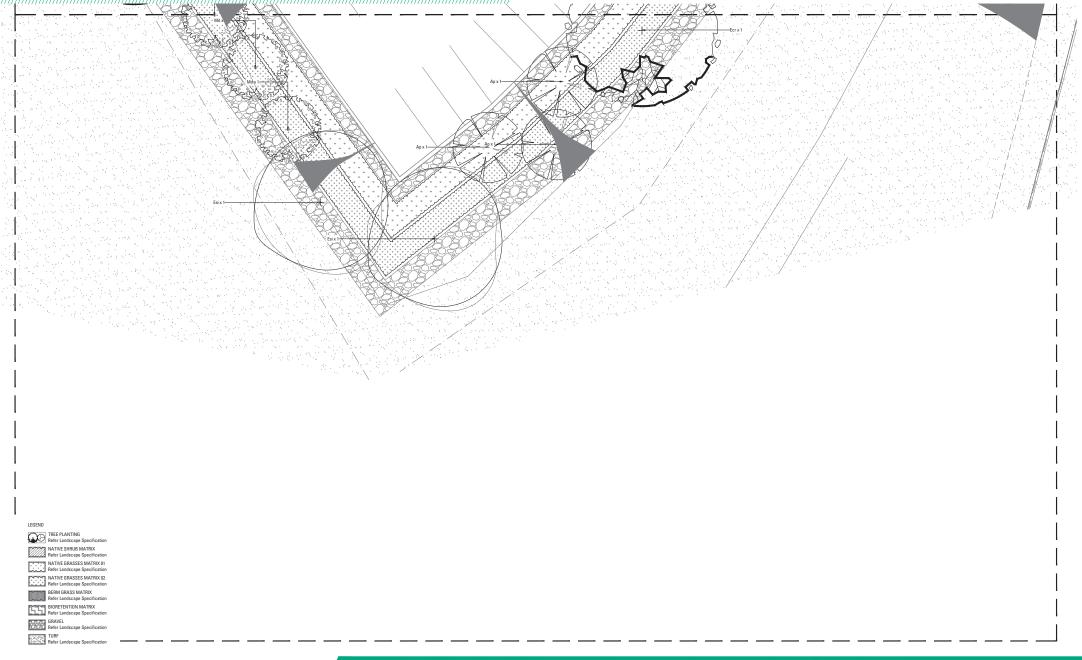
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ARCHITECT	Billard Leece Partnership	IS

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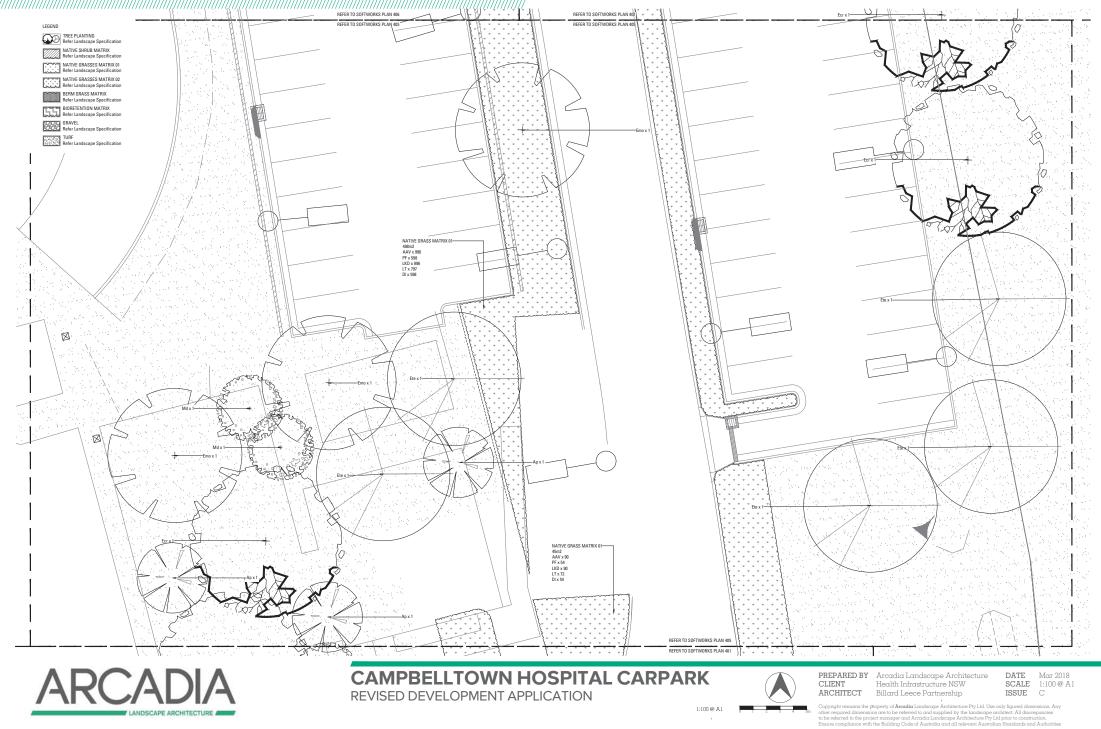
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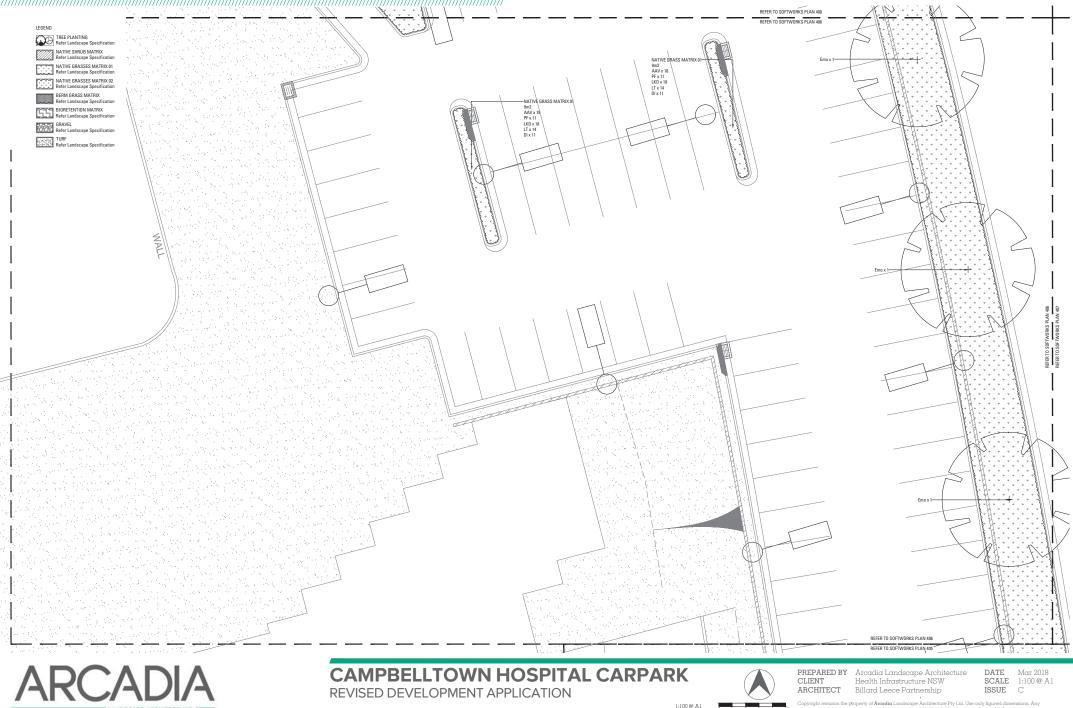
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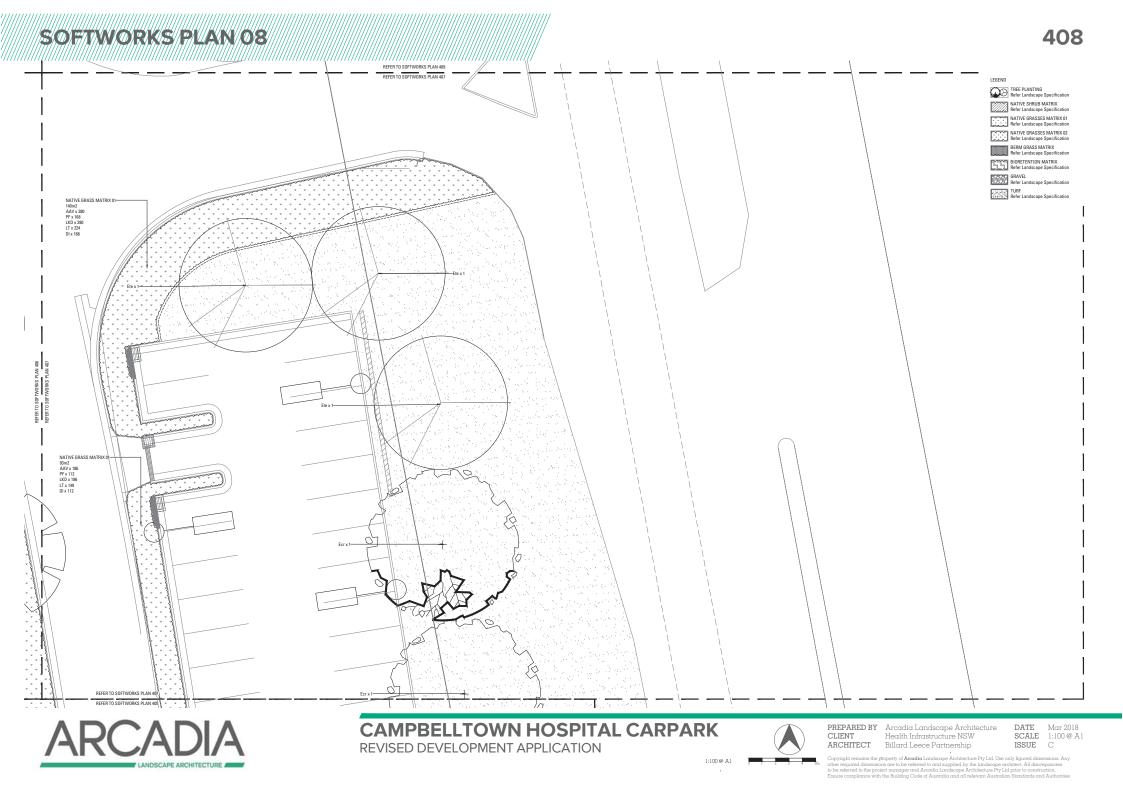


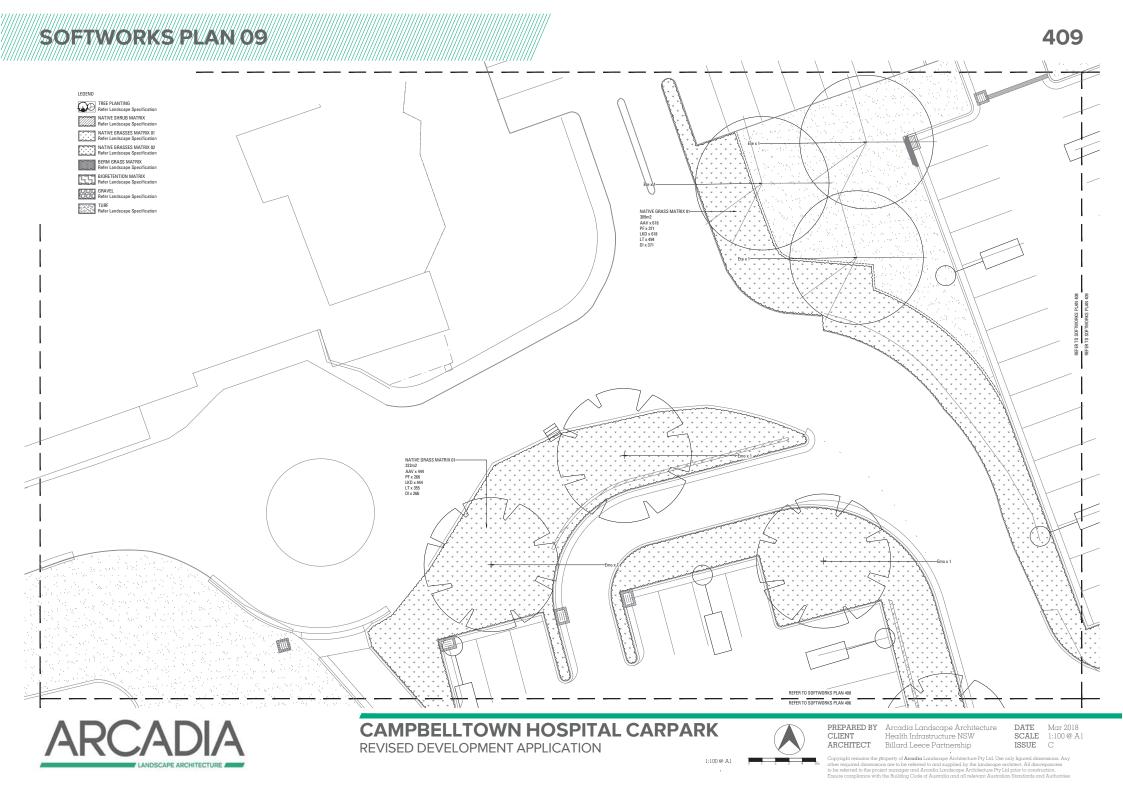
ANDSCAPE ARCHITECTURE

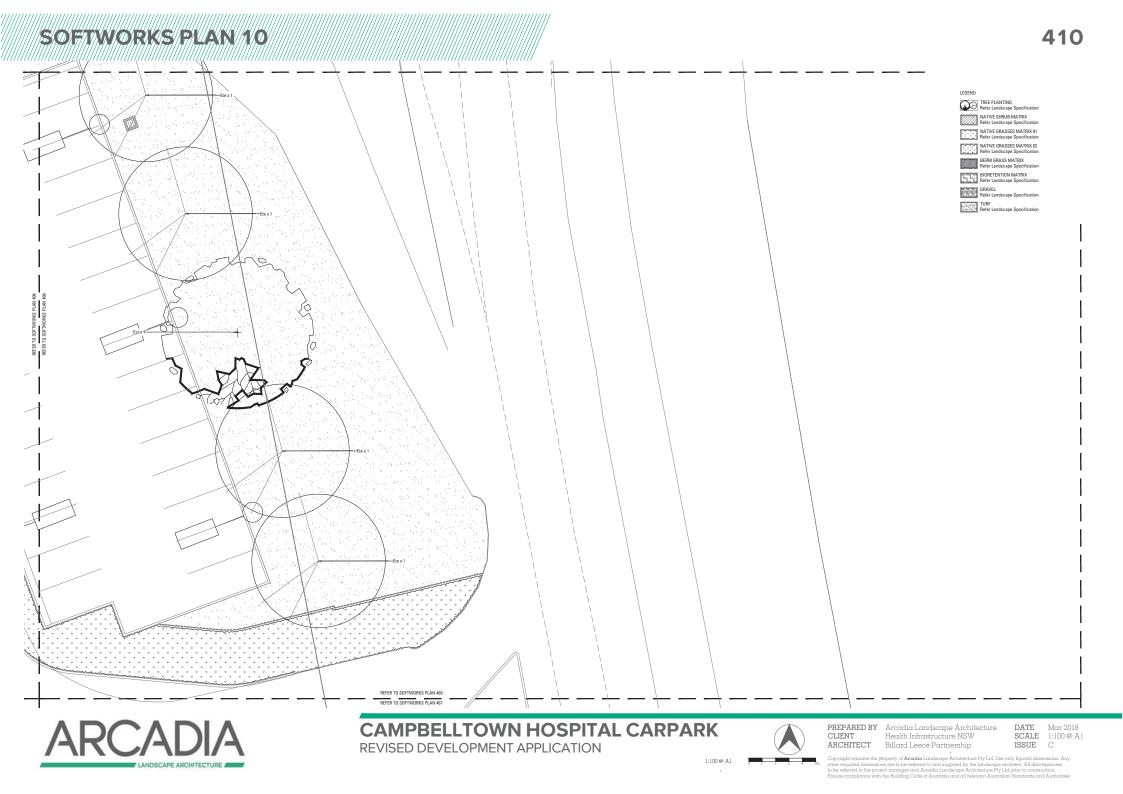


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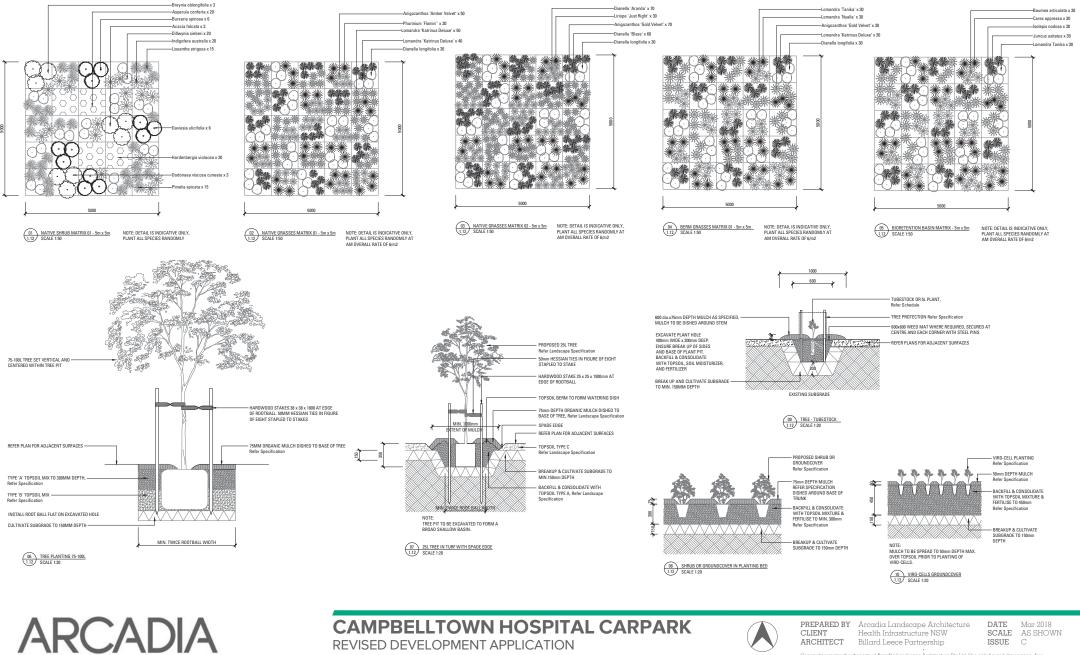
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## LANDSCAPE DETAILS



**REVISED DEVELOPMENT APPLICATION** 

Health Infrastructure NSW ARCHITECT Billard Leece Partnership

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## WANDSCAPE SPECIFICATION + CPNED STATEMENT

### LANDSCAPE SPECIFICATION NOTES

SERVICES BEORIE LANDSCAPE WORK IS COMMENCED THE LANDSCAPE CONTRACTOR IS TO ESTABLISH THE POSITION OF ALL SERVICE LINES AND ENSURE THE PLANTING IS CARRIED OUT AT LEAST INFTRES AWAY FROM THESE SERVICES. SERVICE LIDS, WORTS AND MYDBANTS SMALLEE LEFT DOORSD ANN ONT CONFRED BY ANY LANDSCAPE FINISHES (TURFING, PAVING, GARDEN BEDS ETC.) FINISH ADJONING SURFACES RUSH WITH PIT LIDS.

### ADODIST MANAGEMENT OF THE PROTECTION

ABUMSI MANAGEMENT OF THE PHOLE LINE A DUALIFICE AND APPRIVED ABURITS TO BE CONTRACTED TO UNDERTAKE OR MANAGE THE INSTALLATION OF PROTECTIVE FENCING, AND TO UNDERTAKE SUCH MEASURES AS HE DEEMS APPOPMATE TO PRESERVE THE SUBJECT TREES TO BE RETAINED. THE ABORIST IS TO BE RETAINED FOR THE ENTIRE CONTRACT FERIOR TO UNDERTAKE MORINO MANAGEMENT AND REVEVO OF THE TREES.

### DRAINAGE CELL AND FILTER FABRIC

UNMINING. CLLA MID HILTH HANDLC FOR US-SLAB ARBACE NATIONAL MARPHONED DRAINAGE CELL PRODUCT TO COMPREHENSIVELY COVER THE BOTTOM OF ALL PLANTERS. OVER DRAINAGE CELL TO ON-SLAB ARBACE, A POLIVERT CERTORTILE LINNEI AGE SUPPLICE BY POLIVERT TS OR APPROVED BUNIALEITY IS TO BE HISTALLICE TO ON-SLAB ARBACE, A POLIVERT CERTORTILE LINNEI AGE SUPPLICE BY POLIVERT TS OR APPROVED BUNIALEITY IS TO BE HISTALLICE TO ON-SLAB ARBACE, A POLIVERT CERTORTILE LINNEI AGE SUPPLICE BY POLIVERT TS OR APPROVED BUNIALEITY IS TO BE HISTALLICE TO ON-SLAB ARBACE, A POLIVERT CERTORTILE LINNEI AGE SUPPLICE BY POLIVERT TS OR APPROVED BUNIALEITY DISTORTINUE CENTRE DESCRIPTIONES IN STALL MIN. SOMM COARSE RIVER SAND OVER ALL GEOTEXTILE LINNE PRIOR TO INSTALLATION OF SOIL MIX.

PLANTING MIXTURE SHALL BE HOMOGENOUS BLEND OF SOIL AND ADDITIVES IN THE FOLLOWING PROPORTIONS: SHALL BE KOMOGENOUS BLEND OF DOLLAND ADDITIVES IN THE FOLLOWING PROPORTIONS: DISTING STE DIG 1: 2017 AND A THE ADDITIVES IN THE FOLLOWING PROPORTIONS: DISTING THE ADDITION OF THE ADDITION

MULCH APPLICATION PI 4/5\* MULCH TO THE REQUIRED DEPTH, (REFER TO DRAWINGS) CLEAR OF PLANT STEMS, AND RAKE TO AN EVEN SURFACE FINISHING 25MM BELOW ADJOINING LEVELS. ENSURE MULCH IS WATERED IN AND TAMPED DOWN DURING INSTALLATION

MULCH TYPE PINE BARK: FROM MATURE TREES, GRADED IN SIZE FROM 15MM TO 30MM, FREE FROM WOOD SLIVERS. DARK BROWN IN COLOUR AND TOXIURE.

COMPOST SHALL BE WELL ROTTED VEGETATIVE MATERIAL OR ANIMAL MANURE, OR OTHER APPROVED MATERIAL, FREE FROM HARMFUI CHEMICALS, GRASS AND WEED GROWTH AND WITH NEUTRAL PH, PROVIDE A CERTIFICATE OF PROOF OF PH UPON REQUEST.

A REAL MARKED AND AND TO CONSIDER WITH THOSE SPECIFIC UIETED IN THE PLANT SCHEDULE ON THE REALWINES GENERALLY PLANT SAUL ARE INFORMED, AND THE CONSIDER WITH THOSE SPECIFIC UIETED IN THE PLANT SCHEDULE ON WHET PLANT SCH PLANT SAUL ARE INFORMATION AND THE SAUL AND THE PLANT SCHEDULE ON THE REALWINES GENERALLY PLANT SAUL ARE INFORMATION AND THE SAUL AND THE ALL ADARDA SOLUTION THE PLANT SCHEDULE ON WHET PLANT SCH RESTITUTION DE MARKADE THESE SAUL AND A LLOWING SHOTT DE LLOWERS OF MANDALE TO SE AND THE SAUL AND THE RESTITUTION DE MARKADE THESE SAUL AND A LLOWING SHOTT DE LLOWERS OF MANDALE TO SE AND THE SAUL AND

FERTILISER MASS PLANTING AREAS: FERTILISES NAUL BE INTIFICIOTE ON APPROVED EQUIVALENT IN GRANULE FORM INTENDED FOR SLOW RELEASE OF PLANT NUTRENTS OUTER A PERIOD GAT PROMUNATELY UNITE MONTHS. THOROUGHLY MIX FERTILISER WITH PLANTING MIXTURE AT THE RECOMMENDED RATE, PRIOR TO INSTALLING PLANTS: STAKING AND TYING

GHT HARDWOOD, FREE FROM KNOTS AND TWISTS, POINTED AT ONE END AND

STAKES SHALL BE STRAIGHT HARDWOOD, FR SIZED ACCORDING TO SIZE OF PLANTS TO BE STAKED. A. 5-15 LITRE SIZE PLANT 1X(1200X25X25MM)

8. B.Y. DITTES STE FAATT CHORENERSIAMIN C. JORGERATET HAN BURLITE SZU ROSKOSMMI TIES SHALL BE SMMN WORE HESSIAN WEBING OR APPROVED EQUIVALENT NAILED OR STAPLED TO STAKE. DRIVE STAKES A MINIMUM ONE THING DT FINE LINGTH. AVOIDING BAMAGE TO THE ROOT SYSTEM, ON THE WINDOWARD SIDE OF THE FLANT.

ERICATION STETM SUPPY AN AUTOMATC WATCHING SYSTEM USING: TORO IRREATION SYSTEM OR SMALAR APPROVED, WITH MICED ALT SPRINKLER MARIA AND LOW GRIENT, RUBBER MADRIED PRAYPROPHE ERIE RETRICATION, TO AUCURE FLICTER, BODG MARTINES, ENG AND MICH ANOLLAR COMPONENT. THE LANGESTER SMALL NOMMETHER SUBJECTS SUPPLY OF THE WATERING SYSTEM AND ORDAN APPROVAL FROM THE SUPERINTERIOLENE BEFORE PLACING ORDERS FOR DUMPHENT OR SUPPLY.

A SCHEMATIC PLAN OF THE PROPOSED IRRIGATION SYSTEM IS TO BE PREPARED BY THE CONTRACTOR. SHOWING SOLENDIDS. PIPE DIAMETERS, AND ALL NOZZLE AND TRICKLE ATTACHMENT TYPES (INCLUDING SPRAY/HEAD ANGLE), FOR REVIEW BY THI SUPERINTENDENT PRIOR TO INSTALLATION

### THE CONTRACTOR IS TO LIASE WITH THE HYDRAULIC ENGINEER AND COUNCIL AS NECESSARY, TO ENSURE THE THE IRRIGATION SYSTEM

PROVIDE AN AUTOMATIC CONTROLLER THAT PROVIDES FOR TWO WEEK SCHEDULING AND HOURLY MULTI-CYCLE OPERATION. THE CONTROLLER SHALL MANUAL OVERRIDE. PROGRAMMING SHALL BE UNDERTAKEN BY THE CONTRACTOR WHO SHALL ADVISE ON THE OPERATION OF THE SYSTEM.

PROVISION OF SECURE HUBBING FOR THE AUTOMATIC BRIRGATION CONTROLLER TO BE LOCATED IN ASSOCIATION WITH THE LANDSCAPE CONTROLLER AND LOCATION CONFIRMED BY THE SEVERITIENDERLY INVENTIO TO MARCHER ENDER SUBJECTION IS TO BE PROVIDED. THE CONTROLLER SHALL BE LOCATED IN A DRY PLACE, PROTECTED FROM THE WEATHER, AND ALL CABLE CONNECTIONS SHALL BE AND KEYTIN WITHERPOOP CONVECTIONS.

### WATER SUPPLY POINTS TO BE SUPPLIED BY BUILDER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE AND GUARANTEE SATISFACTORY OPERATION OF THE IRRIGATION SYSTEM. AFTER THE SYSTEM HAS BEEN INSTALLED TO THE SATISFACTION OF THE SUPERINTENDENT, THE INSTALLATION SHALL BE TESTED UNDER KNOWN WORKING CONDITIONS. ACCEPTANCE OF THE INSTALLED PLANT AND EQUIPMENT SHALL BE SUBJECT TO THESE BEING

SATISFACTORY

TREATED PINE TIMBER EDGIN THEATED FINE INNER EDGING TIMBER EDGE: 101 X 29MM CCA TREATED RADIATA PINE TIMBER STAKES: 50 X 90 X 500MM CCA TREATED RADIATA PINE-SHARPENED AT ONE END. INSTALLIN LOCATIONS SHOWN ON THE DRAWINGS FLUSH TO FINISHED SURFACE LEVELS.

### LANDSCAPE MAINTENANCE PROGRAM

MAINTENANCE SHALL MEAN THE CARE AND MAINTENANCE OF THE LANDSCAPE WORKS BY ACCEPTED HORTICULTURAL PRACTICE AS RECTIFYING ANY DEFECTS THAT BECOME APPARENT IN THE LANDSCAPE WORKS UNDER NORMAL USE. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, WATERING, MOWING, FERTILISING, RESEEDING, RETURNING, VERUNANU, PEST AND DISEASE CONTROL, STAXING AND TYNDR, REPLANTING, CULTIVATION, PRUNING, AERATING, RENOVATING, TOP DRESSING, MAINTAINING THE SITE IN A NEAT AND TDIV CONDITION AS FOLLOWS-

GENERAL. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE WORKS FOR THE TERM OF THE MAINTENANCE (OR PLANT ESTABLISHMENT) PERIOD TO THE SATISFACTION OF THE COUNCIL. THE LANDSCAPE CONTRACTOR SHALL ATTEND TO THE SITE ON A WEEKLY BASIST THE MAINTENANCE PERIOD SHALL COMMENCE AT PRACTICAL. COMPLETION AND CONTINUE FOR A PERIOD OF TWENTY SIX (26) WEEKS

### WATERING GRASS, TREES AND GARDEN AREAS SHALL BE WATERED REGULARLY SO AS TO ENSURE CONTINUOUS HEALTHY GROWTH.

RUBBISH REMOVAL DURING THE TRAN OF THE MAINTENANCE PERIOD THE LANDSCAPE CONTRACTOR SHALL REMOVE RUBBISH THAT MAY OCCUR AND RECICURE THROUGHOUT THE MAINTENANCE PERIOD. THIS WORK SHALL BE CARRED OUT REGULARLY SO THAT AT WEEKLY INTERNALS THE AREA MAY BE OBSERVED IN A COMPLETELY CLEAN AND THY CONDITION.

### REPACEMENTS THE LANDSCAPE CONTRACTOR SHALL REPACE ALL PLANTS THAT ARE MISSING, UNHEAL THY OR DEAD AT THE LANDSCAPE CONTRACTOR'S SCIST. REPACEMENTS SHALL BE OF THE SAME SZE, QUALITY AND SPECIES AS THE PLANT THAT HARS FALLED UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENTS SHALL BE MADE ON A CONTINUING BASIS NOT EXCEEDING TWO DY WEEKS ATTER FLAVATI AS DUE DIS SERVIT OE MISSING. ED LINI ESS

STAKES AND THES THE LANDSCAPE CONTRACTOR SHALL REPLACE OR ADJUST PLANT STAKES, AND TREE GUARDS AS NECESSARY OR AS DIRECTED BY THE LANDSCAPE ARCHITECT, REMOVE STAKES AND TIES AT THE END OF THE MAINTENANCE PERIOD IF SD DIRECTED.

PROWING THESS AND SHRUBS SHALL BE PRUNED AS DIRECTED BY THE LANDSCAPE ARCHITECT. PRUNING WILL BE DIRECTED AT THE MAINTENANCE OF THE DEVSE FOLLAGE OR MISCELLANEOUS PRUNING AND BENEFICIAL TO THE CONDITION OF THE PLANTS. ANY DAMAGED GROWTH SHALL BE PRUNED A.LL PRUNED MAITENAL SHALL BE REMOVED FROM THE STRE.

### MULICHED SURFACES

ALL MULCHED SURFACES SHALL BE MAINTAINED IN A CLEAN AND TIDY CONDITION AND BE REINSTATED IF NECESSARY TO ENSURE THAT A DEPTH OF 78MM IS MAINTAINED. ENSURE MULCH IS KEPT CLEAR OF PLANT STEMS AT ALL TIMES.

PEST AND DISEASED CONTROL THE LANDSCAPE CONTRACTOR SHALL SPRAY AGAINST INSECT AND FUNGUS INFESTATION WITH ALL SPRAYING TO BE CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. REPORT ALL INSTANCES OF PESTS AND DISEASES (IMMEDIATELY THAT THEY ARE DETECTED) TO THE LANDSCAPE ARCHITECT.

### WEED ERADICATION

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SOIL SUBSIDENCE ANY SOIL SUBSIDENCE OR EROSION WHICH MAY OCCUR AFTER THE SOIL FILLING AND PREPARATION OPERATIONS SHALL BE MADE GOOD BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE CLIENT.

### LANDSCAPE CPTED STATEMENT

This design commentary relates to the design of the landscape and public domain, particularly in regard to safety and Design Amenity & Sustainability for Environmental Assessment.

The project is to principally be a multi-deck carpark project that expands on the parking amenity at Campbelltown Hospital. The existing nature of the site means battered planting will be proposed to the surrounds of the carpark. This softens the built form but also compliments the facade of the structure.

Design principles relating to achieving actual as well as perceived safety have been observed, with adherence to the principles of Crime Prevention Through Environmental Design. Crime Prevention Through Environmental Design (CPTED) is based on the premise that proper design and effective use of the physical environment can produce behavioural effects that will reduce the incidence and fear of crime, thereby improving the quality of life and general operational safety of buildings and the adjoining spaces. These behavioural effects can be accomplished by reducing the propensity of the physical environment to support criminal behaviour"

Put simply, CPTED is based on the idea that people's behaviour within the urban environment, particularly in terms of the possibility of offending, as well as an individual's perceptions about their safety is influenced by the design of that environment. CPTED, therefore, involves the application of a range of design initiatives and principles to an area or site to minimise the potential for that site to facilitate and support criminal behaviour.

So, CPTED recognises that there is a relationship between the design and management of the physical environment, and human behaviour aims to improve safety and prevent crime by designing a physical environment that positively influences human behaviour is one tool in crime prevention and community safety can be considered when designing a site or structure, when redeveloping a site, or when responding to actual crime incidents is best incorporated at the planning and design stage of a site development.

With specific regard to Campbelltown Hospital carpark project, the site as a whole was designed to take into account the principles of CPTED in both the planning of outdoor spaces and their relationship with the building, as well as the detail design of the outdoor areas.

Based on the above, it is concluded that the project design provides a safe and secure environment for living that is safe for residents and visitors alike. It is understood the project will satisfy all the CPTED requirements, and the design for the overall project and each precinct in this regard is suitable for approval.

**CAMPBELLTOWN HOSPITAL CARPARK** 



PREPARED BY Arcadia Landscape Architecture CLIENT Health Infrastructure NSW ARCHITECT Billard Leece Partnership

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