SITE ANALYSIS



LEGEND

Civic Square site

Roads

- Existing commercial buildings
- Local green spaces
- Future development
- Pedestrian pathways
- Train station
- B Existing bus stops

SITE ANALYSIS



LEGEND

- []] Future development
- Existing trees
 - Existing roads
- Existing brick paving along McFarlane Sreet
- Existing Bluestone paving along Merrylands Road



Noise – vehicular traffic along both streets



 Existing brick paving and bus shelter along McFarlane Street



2 Existing Bluestone paving and crossing along Merrylands Road

CONTEXT PLAN AND STAGES





LEGEND

- []] Future development
 - Existing roads

STRUCTURE PLAN

- 3m wide future development buffer (1)Maintain minimum clear width offset from edges to ensure flexibility to marry design into future adjacent developments.
- 3.5m wide tree line Introduce shading and amenity on main pedestrian walkway through tree planting with integrated urban 2 elements. i.e seating and Smart poles.
- 9m wide main pedestrian walkway Ensure walkway width is sufficient to accommodate market events with stalls on either side with adequate pedestrian 3 circulation in between.
- 4 16m wide green link More informal, loose configuration of urban elements and large native tree planting. Water features, canopy structures, play elements and large lawn area.
- (5) 196m² open lawn area for lounging and seating.
- Zero depth water play area to provide interactive play and 6 cooling amenity to the square.
- Pergola structure to provide cooling and potential art 7 integration.
- 8
- Hostile vehicle mitigation Urban elements that integrate with the canopy structure to both frame and activate the entrance to the Square and to also provide hostile vehicle mitigation from straight on approaches from Memorial Ave.





STAGE 2 PUBLIC DOMAIN PLAN



KEY PLAN



Ephemeral creek cobble paving

Canopy structure

Planting blisters with misting systems and

Fixed table and stool set

Boulder elements

HMV (Hostile Vehicle Mitigation) mitigation element - raised planter with seating edge



STAGE 1 SECTION & 3D VIEW

- 1 Lawn area.
- (2) Medium to large tree planting in lawn area.
- (3) Large deciduous tree.
- (4) 9m wide pedestrian path.
- (5) 3m buffer zones to future developments.
- 6 Main paving course light earth tones for ease of maintenance and urban heat reduction.
- 7 Pavement banding.
- (8) Smart poles evenly spaced between trees.
- (9) Bench seating and planting beneath deciduous tree.
- 10 Varied height (max.500mm) undulating raised seating edge to lawn area.





KEY PLAN





STAGE 1 SECTION & 3D VIEW

(1)Lawn area. (2)Medium to large tree planting in lawn area. (3) Stage 1 canopy – By Architects. (4)Zero depth water play area. Main paving course - light earth tones for ease of maintenance and urban heat reduction. 5 (6) Pavement banding. (7) Cobble paving. (8) Bench seating. (9 Fixed table and stool set. Varied height (max.500mm) undulating raised seating 10 edge to lawn area.





KEY PLAN



STAGE 2 SECTION & 3D VIEW

3m buffer zones to future developments. (1)(2) Bench seating and planting beneath deciduous tree. 3 9m wide pedestrian path. (4)Paved Ephemeral 'Dry river bed'. (5 Bench seating with fixed table and stool set. 6 Planting blister with tree planting and misting systems. Main paving course - light earth tones for ease of maintenance and urban heat reduction. 7 (8) Pavement banding.

(9 Stage 2 canopy concept design - by architects.





KEY PLAN



PUBLIC ART INTEGRATION OPPORTUNITIES

1 Raised concrete edge along lawn



2 Pavement banding



3 Canopy structure



4 Dry creek bed course



5 Boulder elements



6 Site Hoarding





TREE MANAGEMENT PLAN

LEGEND



Tree ID.	Tree Speci	es	
-			

nee ibi	
1	Platanus x hybrida (London Plane)
2	Platanus x hybrida (London Plane)
3	Platanus x hybrida (London Plane)

NOTE:

Tree numbers and proposed management in accordance with arborist report. Refer arborist report for further information.



STAGE 1 & 2 PLANTING PALETTE

Trees



Ulmus parvifolia - Chinese Elm

Corymbia maculata - Spotted

Gum

Row of deciduous Chinese Elm trees to provide good summer shade and sun in winter.



Platanus x hybrida - London Plane

Angophora bakeri - Narrow-Leaved Apple



Melaleuca decora - Feather Honeymyrtle

Retain existing Plane trees on site

Mix of 3 tree species with diversity in bark, foliage, flower, colour for

seasonal variation

MIX 1 - Native understorey mix | Total area - 403 m² Shrubs - max 1m high





Dichopogon fimbriatus



Ozothamnus diosmifolius



Dillwynia sieberi

Groundcovers



Einadia nutans





Hibbertia scandens (climber)



Pratia purpurascens

Wahlenbergia gracilis

Eremophila debilis







Daviesia ulicifolia



Dianella revoluta



Arthropodium milleflorum



Indigofera australis





Hardenbergia violacea (climber)



Lomandra filiformis





Billardiera scandens



Dianella longifolia



Myoporum parvifolium



Dichondra repens

STAGE 1 & 2 PLANTING PLAN & SCHEDULE

PROPOSED PLANTING SCHEDULE									
CODE	BOTANICAL NAME	COMMON NAME	MATURE SIZE	CENTRES	POT SIZE	QUANTITY			
TREE SPECIE	S								
Aba	Angophora bakeri	Narrow-Leaved Apple	(h)10m x (w)10m	As Shown	400lt	8			
Cma	Corymbia maculata	Spotted Gum	(h)30m x (w)10m	As Shown	800lt	5			
Mde	Melaleuca decora	White Feather Honeymyrtle	(h)6m x (w)4m	As Shown	400lt	5			
Upa	Ulmus parvifolia	Chinese Elm	(h)13m x (w)10m	As Shown	800lt	9			
GROUNDCOV	ERS AND CLIMBERS								
CODE	SPECIES	COMMON NAME	CENTRES(mm)	POT SIZE	QUANTITY	TOTAL AREA			
MIX 1	Dichopogon fimbriatus Lissanthe strigose Arthropodium milleflorum Dillwynia sieberi Ozothamnus diosmifolius Daviesia ulicifolia Indigofera Australis Dianella revoluta Eremophila debilis Einadia nutans Billardiera scandens Wahlenbergia gracilis Asperula conferta Hardenbergia violacea (climber) Dianella longifolia Pratia purpurascens Hibbertia scandens (climber) Lomandra filformis Myoporum parvifolium Dichondra repens	Nodding Chocolate Lily Peach Heath Pale Vanilla Lily Prickly Parrot-Pea Rice Flower Gorse Bitter Pea Australian Indigo Blueberry Lily Winter Apple Climbing Saltbush Apple Berry Sprawling Bluebell Common Woodruff False Sarsaparilla Blueberry Lily White Root Snake Vine Wattle Mat-Rush Creeping Boobialla Kidney Weed	500	200	1610	403 m²			



FEATURE ELEMENTS & MATERIALS PALETTE

PLAY ELEMENTS AND CANOPY STRUCTURE



ZERO DEPTH WATER PLAY FEATURE (feature lit at night)



PLAYFUL ROCK FEATURES



STAGE 1 - CANOPY STRUCTURE



STAGE 2 - CANOPY STRUCTURE

PAVING



EXISTING STREETSCAPE PAVEMENT (match existing)



PEBBLECRETE UNIT PAVING (Stretcher bond perpendicular to path of travel)



PEBBLECRETE PAVING BANDS



TEXT INLAYS IN CONCRETE PAVING BANDS FEATURE COBBLES TO WATER AREAS (site specific narrative text embedded)

FURNITURE & FIXTURES



CIRCULAR TIMBER BENCHES



UNDULATING SEATING WALLS TO LAWN



REMOVEABLE BOLLARDS



BICYCLE RACKS











SMART POLES

SHADE CANOPY - STAGES 1 & 2



SHADE CANOPY - STAGE 1 PERSPECTIVES



PERSPECTIVE - EYE VIEW

Mirror-polished stainless steel clad shade canopy. Perforated public artwork in progress. Galvanised structural steel column and canopy framing.

PERSPECTIVE - BIRDS EYE VIEW





ISSUE A - 17 DECEMBER 2021 L-DA-30

TYPICAL DETAIL - TREE PLANTING IN LAWN



ISSUE A - 17 DECEMBER 2021 L-DA-31





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[MERRYLANDS CIVIC SQUARE, MERRYLANDS NSW] | DA - LANDSCAPE REPORT

ISSUE A - 17 DECEMBER 2021 L-DA-32

MERRYLANDS CIVIC SQUARE FUNCTIONAL LIGHTING





Type P1 Smart pole to provide functional lighting for path of travel - with outreach arm and light

project: Merrylands Civic Square

drawing: Functional Lighting

project number:

L170Y

Rev: B 1

MERRYLANDS CIVIC SQUARE CANOPY SOUTH & SURROUNDS







Type L1 + L2 Flexible linear light

Type D1 Downlight to Canopy





project: Merrylands Civic Square

drawing: Canopy South & Surrounds

project number:

L170Y

Rev: B

MERRYLANDS CIVIC SQUARE CANOPY NORTH & SURROUNDS









Type D1 Downlight to Canopy

Type L1 + L2 Glow light to planter / seating edge

project: Merrylands Civic Square

drawing: Canopy North & Surrounds

project number:

L170Y

Rev: B

Issue Date 14-12-21

MERRYLANDS CIVIC SQUARE WATER FEATURE











Type U1 Water Feature Light

project: Merrylands Civic Square

drawing: Water Feature Lighting

project number:

L170Y

Rev: B Issue Date 14-12-21

CODE	SYMBOL	IMAGE	ITEM/PRODUCT	DIMENSION	COLOUR + FINISH	SUPPLIER (or equal)	SHOP DRAWINGS	SAMPLES	NOTES	QTY	UNIT
HT	к к к к		CoverLawn hybrid turf	To all proposed lawn areas.	-	HG Turf group www.hgturfgroup.com.au	-	Required		196	m2
P1a			Concrete Unit Paving	(L) 600mm x (W) 400mm. 80mm thick	Colour: PPX 95 Finish: Sandstone Finish Layout: Stretcher Bond	Pebblecrete www.pebblecrete.com.au	-	Required		1832	m2
P1b			Concrete Unit Paving (banding)	(L) 600mm x (W) 400mm. 80mm thick	Colour: PPX 114-45 Finish: Honed Finish Layout: Stretcher Bond	Pebblecrete www.pebblecrete.com.au	-	Required		272	m2
P2a			Concrete Cobble Feature Paving	(L) 100mm x (W) 100mm. 40mm thick	80-20% Mix Colour: 80% PPX 95 Finish: Sandstone Finish Layout: Stretcher Bond	Pebblecrete www.pebblecrete.com.au	-	Required		237	m2
P2b			Concrete Cobble Feature Paving	(1) 100mm x (W) 100mm 40mm thick	Colour: 20% PPX 114-45 Finish: Honed Finish Layout: Stretcher Bond	Pabblacrata		Paguirad		106	m2
1 20					Colour: 80% PPX 95 Finish: Sandstone Finish Layout: Stretcher Bond Colour: 20% PPX 114-45 Finish: Honed Finish Layout: Stretcher Bond	www.pebblecrete.com.au		i tequireu			1112
P3			Concrete Cobble Paving (threshold ramps)	(L) 100mm x (W) 100mm. 40mm thick	Colour: PPX 114-45 Finish: Sandstone Finish Layout: Stretcher Bond	Pebblecrete www.pebblecrete.com.au	-	Required		30	m2
P3a			Concrete Cobble Paving	(L) 100mm X (W) 100mm. 80mm thick	80-20% Mix Colour: 80% PPX 95 Finish: Sandstone Finish Layout: Stretcher Bond Colour: 20% PPX 114-45 Finish: Honed Finish Layout: Stretcher Bond	Pebblecrete www.pebblecrete.com.au	-	Required		203	m2
P3b			Concrete Cobble Paving (banding)	(L) 100mm X (W) 100mm. 80mm thick	Colour: PPX 114-45 Finish: Sandstone Finish Layout: Stretcher Bond	Pebblecrete www.pebblecrete.com.au	-	Required		27	m2
P4			Concrete Unit paving as per Council Public Domain Plans	To be advised by Council. Approx. 300x300x80mm	To be advised by Council. Indicative spec: Dark grey with aggregate. Staggered bond.	Pebblecrete www.pebblecrete.com.au	-	Required		141	m2
P5			Asphalt Paving	Refer to engineers details	Refer to engineers drawings	-	-	Required		63	m2
FURNITUR		SS								1	
BL	0		Linea removable bollard	(H)900mm x (W) 100mm x (L)100mm	Powdercoated galvanised stainless steel. Colour: TBC	Street Furniture Australia	Required	Required		9	no.
BN			Dual Bins - Recyling & General (Manufacturer to council's selection)	(L)570 x (W)590 x (H)1180mm	-	-	Required	Required		4	no.
BO1	50		Boulder Seating elements	As shown on plan. (H) 500mm (max.)	Precast Concrete	Reckli www.reckli.com	Required	Required		6	no.
BO2	50		Boulder Seating elements	As shown on plan. (H) 500mm (max.)	Precast Concrete	Reckli www.reckli.com	Required	Required		8	no.
BO3	50		Boulder Seating elements	As shown on plan. (H) 500mm (max.)	Precast Concrete	Reckli www.reckli.com	Required	Required		15	no.
BO4			Boulder Seating elements	As shown on plan. (H) 500mm (max.)	Precast Concrete	Reckli www.reckli.com	Required	Required		9	no.
BR	C		Linea Bike Rack	(H) 760mm	Powdercoated galvanised stainless steel. Colour TBC	Street Furniture Australia www.streetfurniture.com	Required	Required		4	no.
DF			Aquafil FlexiFountain 1500BF	(H) 1500mm	Stainless Steel	Civiq www civiq com.au	Required	Required		2	no.
LP			Smart Pole	(Ø)230mm (H)11000mm	Aluminium; Finish: Clear anodised; Light fitting by others (Sylvania 150w Roadled Midi Aeroscreen	Urban Aluminium	Required	Required	Fixtures to be confirmed by Council including banner arms, wifi access, CCTV, event power, smart sensors (temperature/urban heat, humidity, air quality)	7	no.
PT	() ()	T	'PowerMe2' Power Table	(H) 685mm x (W) 300mm	As manufactured. Colour: TBC	Street Furniture Australia www.streetfurniture.com	Required	Required		4	no.
S1	\bigcirc	I	Cafe Stool with Timber Top	Ø:350mm H:450mm	Top: PEFC certified Spotted Gum timber battens. Frame: Coloured cast aluminium. Colour: TBC	Street Furniture Australia www.streetfurniture.com	Required	Required		30	no.
S2a			Linea Curved Bench. Circular with standard steel frame and bespoke timber battens	(Outer dia) 3500mm, (W) 450mm, (H) 430mm	Battens: Tapered PEFC certified Spotted Gum laid perpendicular to frame. Frame: Powdercoated galvanised stainless steel. Colour: TBC	Street Furniture Australia www.streetfurniture.com	Required	Required	Refer to details sheet L-911	7	no.
S2b			Linea Curved Bench. Circular with standard steel frame and bespoke timber battens. With accompanying PT Power Table.	(Outer dia) 3500mm, (W) 450mm, (H) 430mm	Battens: Tapered PEFC certified Spotted Gum laid perpendicular to frame. Frame: Powdercoated galvanised stainless steel. Colour: TBC	Street Furniture Australia www.streetfurniture.com	Required	Required	Refer to details sheet L-911	4	no.
S3			Linea Curved Bench with standard steel frame and bespoke timber battens	d (Outer dia) 4000mm, (W) 450mm (H) 430mm	Battens: Tapered PEFC certified Spotted Gum laid perpendicular to frame. Frame: Powdercoated galvanised stainless steel. Colour: TBC	Street Furniture Australia www.streetfurniture.com	Required	Required	Refer to details sheet L-911	1	no.
S4			Linea Curved Bench with standard steel frame and bespoke timber battens	d (L)Varies, (W) 450mm, (H) 500mm	Battens: Tapered PEFC certified Spotted Gum laid perpendicular to frame. Frame: Powdercoated galvanised stainless steel. Colour: TBC	Street Furniture Australia www.streetfurniture.com	Required	Required	Refer to details sheet L-911	8	no.
S5			Custom wide timber bench on concrete plinth housing water feature equipment	(H) 450mm above ground level x (L) 7700mm x (W) 1200mm	Precast Concrete - with public art integration	By Landscape Contractor	Required	Required	Refer to Hydraulic Engineer's drawings for additional information.	1	no.



						SUPPLIER		SHOP					
CODE	SYMBOL	IMAGE	ITEM/PRODUCT	DIMENSION	COLOUR + FINISH	(or equal)		DRAWINGS	SAMPLES	NOTES		QTY	UNIT
S6			Linea Curved Bench. Circular with standard steel frame and bespoke timber battens	(Outer dia) 5000mm, (W) 450mm), (H) 430mm	Battens: Tapered PEFC certified Spo laid perpendicular to frame. Frame: Powdercoated galvanised sta steel. Colour: TBC	ainless Street Furnit	ure Australia rniture.com	Required	Required	Refer to details sheet L-911		1	no.
S7	\bigcirc		Linea Curved Bench - Plinth Fixed on Concrete Edge seating wall	(Outer dia.) 8000mm x (W) 450mm, (H) 430mm	Battens: Tapered PEFC certified Spo laid perpendicular to frame. Frame: Powdercoated galvanised sta steel. Colour: TBC	ainless	ure Australia rniture.com	Required	Required	Refer to details sheet L-911		2	no.
SK			Smart Kiosk with digital screen. Features to Council's selection.	Approx. (H) 1800mm x (W) 800mm x (D) 150mm	TBC	To Council's	selection	Required	Required			1	no.
TB1	\bigcirc	I	Cafe Round Table with Timber Top	Ø:750mm H:730mm	Top: PEFC certified Spotted Gum tim battens. Frame: Coloured cast aluminium. Colour: TBC	nber Street Furnit www.streetfu	ure Australia rniture.com	Required	Required			15	no.
WALLS													
CE			Varied height edge to lawn area	(w)500mm x (h) varied	Precast Concrete - with public art inte	egration Reckli www.reckli.c	om	Required	Required	Refer to specification for protection of existing trees.		86	
SE	KK		Steel Edge	6mm thick x 100mm height	Finish: Hot dipped galvanised	Ideal Edging 7606	- 02 9526	Required	Required	Finish flush with adjacent pavement as shown on landsca	ape plans.	198	Lin.m
SOFTWOR	٢S			1									
SE CODE	SYMBOL		SEITEM		SEDIMENSION				Comments	、			
-		Proposed Plan	Iting	-	-	Hold point for preparation specification. Refer to p	on of subsoil. lanting scheo	Earth cutting requ dules for quantity	uired to achieve nomir	nated growing medium depths. All specimens to Natspec	414	m2	
-		Proposed Law	n - species: Zoysia macrantha (Nara)	-	-	Hold point for preparation	on of subsoil.	Natural turf to gro	ow through HT Hybrid	turf product	196	m2	_
-		Existing Tree -	to be retained	-	-	-					3	no.	_
-		Existing Tree -	to be removed	-	-	-					0	no.	_
-		Proposed Tree	9	-	-	Inspection of setout & s schedules for quantity	pecimen qua	lity on site prior to	installation.All specin	nens to Natspec specificationsRefer to details. Refer to planting	g 25	no.	_
-		Organic Mulch		-	Forest Blend' Course 20-40mm gold coloured chip, made from 100%recycled grade A wood waste.	Supplier Certificates Re	quired prior t	to installation. Kee	ep clear of plant stem a	and tree trunk.	414	m2	_
-		Stratavault - 45	5 series root cell structure	CityGreen www.citygreen.com	Dimensions to manufacturer specification	Refer to GA plan for are	a. Stratavaul	It to have 3 layers			943	m2	-
-	<u> </u>	Soil Type A - N	Native Garden Mix (SMARTMIX® 6)	Benedict hiips://www.benedict.com.au	300mm Depth	Refer to manufacturer's	specification	1					-
-		Soil Type B - N	Native Garden Sub-Soil Mix (SMARTMIX® 7)	Benedict hiips://www.benedict.com.au	As shown in Softworks details	Refer to manufacturer's	specification	1					-



PRELIMINARIES 1.01. General

The following general conditions should be considered prior to the commencement of landscape works. Commencement of work by The Contractor shall be deemed as proof of The Contractor's acce following conditions and existing condition of site.

The landscape plans should be read in conjunction with the survey, architectural plans, engineering plans, service plans, hydraulic plans, and all other relevant documentation prepared by others for the

All specification information provided below is supplementary to all relevant codes and Australian Standards.

1.02. Workmanship & expertise

The Contractor must be conversant with all current best practice methods relevant to their profession and work being undertaken.

The Contractor (and subconsultants) must be appropriately experienced with all aspects of the work being undertaken.

All planting, establishment and maintenance work must be carried out by qualified arborist / horticulturist with minimum three years' experience in similar work. It is a requirement that the site foreman have the minimum certificate qualification equivalent to a NSW TAFE Course, with a minimum five years demonstrable experience in similar landscape projects. 1.03. Check / Hold Points

The Contractor must provide minimum 5 working days' notice for the Client's representative to inspect the works for compliance with the design documents. At a minimum, inspections are to occur at check / hold points:

- Ground preparation
- Set out (hardworks & softworks)
- Approve in-situ samples, as required
- Nursery inspection of plant specimens
- Installation of advanced trees (or larger)
- Prior to practical completion During defects period
- At handover

1.04. Initial preparation

The Contractor must arrange site meeting with the Client's representative (Landscape Architect) prior to commencement, confirm design intent, review documentation and confirm construction method No work shall be carried out until all underground services have been identified and accurately located and pegged by Contractor. The Contractor is to ensure all appropriate safety provisions are made, including but not limited to traffic control and appropriate PPE for all staff.

Location of material stockpiles must be agreed with Client's Representative prior to commencement of work on site.

1.05. Protection of existing adjacent elements

The Contractor must ensure all adjacent pavements, urban elements, planting, etc. are adequately protected prior to commencement of works.

1.06. Protection of existing trees

All existing trees to be retained must be protected in accordance with AS4970 - Protection of Trees on Development Sites.

Do not store or otherwise place bulk materials and harmful materials under of near trees within the tree protection zone. Storage of materials, mixing of materials, vehicle parking, disposal of liquids, and refuelling, site office and sheds must not occur within the drip line of any existing trees, or within 5m of any existing trees where the drip line radius is less than 5m. Do not place spoil from excavations against tree trunks, even for short periods. Prevent wind-blown materials such as cement from harming trees and plants.

Particular care must be given to root protection; excavation around existing trees must be undertaken by hand methods, unless otherwise approved by the Client's representative.

Machine excavation is to be undertaken no closer than 2m from the trunk of existing trees, or until a root with diameter greater than 30mm is encountered. Hand methods should be used around tree 30mm

Soil within 2m of existing trunks should be lightly cultivated (using hand methods). Soil levels should not exceed 100mm greater than existing.

1.07. Existing tree removal

When removing trees, take care not to damage any adjacent existing structures, services or trees to be retained. Where trees to be removed are located in future planting areas as shown on the Plan remove the trees and their parts including the root system. Where this is not possible, the roots of all removed trees must be poisoned and left in the ground in order to not disturb roots of the adjacer retained.

1.08. Erosion & pollution control

The Contractor must take all proper precautions to prevent the erosion of soil from the subject site. The Contractor must install erosion and sediment control barriers as required by Council, and ensu maintained throughout construction.

An Erosion control plan that reflects the soil type and erosion characteristics of the site must be prepared for approval by the Client prior to commencement of works 2. SOIL WORKS

2.01. Materials

Soil Types

Refer to the Landscape Schedule for specified soil types for all planting / lawn areas.

2.02. Installation Testing

All testing is to be conducted in accordance with AS1289 Method of testing soils for engineering purposes. Site soil shall be given a pH test prior to modifying to ensure conditions are appropriate for shall be taken in several areas where planting is proposed, and the pH shall be adjusted accordingly with sulphur or lime to suit. A soil test must be undertaken by SESL Australia (or approved equal) for all commercial, industrial, and multi-unit residential sites. The successful contractor shall implement the recommendations of

Subgrade requirements

Refer to the landscape details for required subgrade levels and cultivation depths. Ensure a thorough breakup of the subgrade into a coarse tilth. Grade subgrades to provide falls to surface and substances and substances are subgrade into a coarse tilth. to the installation of specified topsoil. The Contractor must arrange for Client's Representative (Landscape Architect) to inspect the preparation of sub grade prior to of top soil / wearing courses.

Drainage

Install surface and subsurface drainage where required and as detailed on the drawings. Drain subsurface drains to outlets provided, with a minimum fall of 1:100 to outlets and / or service pits. The ensure all areas drain satisfactorily.

Achieving finished levels

Growing media placed as fill in lawn areas, mass planting beds, and tree pits shall be lightly compacted in maximum 75mm layers so as to minimise degree of future settlement. No work shall be carr planting beds whilst soil is still wet, to avoid compaction of these areas. If future settlement occurs Contractor is to allow for additional fill material to achieve design finished levels. Thickening of mulci design finished levels is not acceptable.

3. PLANTING

3.01. Materials Specimen Quality & Size

All plants must be grown well, healthy, not soft or forced, nor rootbound and weed free. The Contractor must undertake a thorough inspection of all plants at the time of delivery and after they have be delivery vehicle to identify damaged or defective plants. When damaged stock is found the Installation Contractor must immediately notify the Client's representative and the Supplier of the damage, date and nature of the damage including photographic evidence. At this stage the Supplier will be liable for replacement of defective stock. The Supplier may choose to have the specimens returned immediately or await a determination by the Client's representative.

All tree stock must be in accordance with AS 2303 "Tree Stock for Landscape Use".

Species

Plants must be true to species or cultivar as named. Plant substitution is not acceptable unless approved by Client's representative (Landscape Architect).

Stakes & Ties

Staking of plants is generally not acceptable. All plant stems must be robust enough to support their own weight. In the event that staking is deemed acceptable, min 3 stakes and ties must be provided. Stakes shall be unpainted hardwood, straight, free of knots, and pointed at one end. They shall be 2200x50mmx50mm hardwood, or similar approved. Ties shall be 50mm wide hessian webbing material. Fertilisers

Fertilisers must be slow release fertilisers suitable for the proposed planting types. For native plants, specifically Proteaceae family plants (including Grevillea, Banksia, Hakea spp.), low phosphorus fertilisers shall be used.

Mulch

Refer to the landscape schedule for specified mulch material Turf

Refer to the landscape schedule for specified turf material

3.02. Installation Setting Out

All planting set out shall be in accordance with the drawings by a suitably gualified horticulturalist. Any conflicts with services must be identified by the Contractor, and adjustment to the location must be approved by the Client's representative (Landscape Architect).

Planting

Planting holes shall be dug to the depth as illustrated in details provided. Base of planting hole shall be loosened to a depth of 150mm and a surface dressing of an approved slow release fertiliser added to hole to manufacturer's recommendations and worked into loosened soil.

Contractor shall ensure that a 'pond' is not dug into clay sub grade material and that planting holes are free draining. Should Contractor not be satisfied with quality of existing soil into which plants are to be installed then contractor must immediately the advise Client's representative and await further instructions.

All plant material shall be planted as soon after delivery as possible. Plant containers shall be removed and discarded, and the outer roots gently teased from the soil mass. For all tree species, trim potted root balls by 10% off perimeter prior to planting to remove circling roots and encourage lateral root development. All plants shall be thoroughly watered immediately prior to planting. Set plant in the centre of hole and backfill with growing media as specified. Compact the backfilled soil and saturate by hand watering to expel any remaining air pockets immediately after planting. On completion of planting works the base of each stem shall finish flush with the soil surface level.

Planting on Structure

Planter boxes constructed over a concrete slab shall be built in accordance with the following details provided prior to the issue of a relevant Construction Certificate: a) Ensure soil depths are in accordance with the plans and details provided with the application, including the amended plans required by condition B49. The base of the planter must be screeded to ensure drainage to

a piped internal drainage outlet of minimum dia. 90mm, with no low points elsewhere in the planter. There are to be no external weep holes. Turfed areas require a min 5% cross fall. b) A concrete hob or haunch shall be constructed at the internal join between the sides and base of the planter to contain drainage to within the planter.

c) Planters are to be fully waterproofed and sealed internally with a proprietary sealing agent and applied by a qualified and experienced tradesman to eliminate water seepage and staining of the external face of the planter. All internal sealed finishes are to be sound and installed to manufacturer's directions prior to backfilling with soil. An inspection of the waterproofing and sealing of edges is required by the Certifier prior to

backfilling with soil. d) Drainage cell must be supplied to the base and sides of the planter to minimize damage to the waterproof seal during backfilling and facilitate drainage. Apply a proprietary brand filter fabric and backfill with an imported lightweight soil suitable for planter boxes compliant with AS4419 and AS3743. Install drip irrigation including to lawns.

e) Planter boxes shall be finished externally with a suitable paint, render or tile to co-ordinate with the colour schemes and finishes of the building. Mulchina

Mulch shall be spread evenly across all planting beds to the depth specified in the drawings. Mulch must be installed clear of all plant stems / trunks as detailed. There shall be no mixing of soil and mulch material. Turfing

Moisten soil prior to the turf being laid. Contractor must lay turf in stretcher bond pattern with neatly butted joints, and true to grade to finish flush with adjacent surfaces. All new and existing Turf areas shall receive an application of lawn starter fertiliser, at the supplier's recommended rates. Allow for top dressing of all turf areas. All turf shall be rolled immediately following installation. Keep turf moist until roots have taken and sods/rolls cannot be lifted. Keep all traffic off turf until this has occurred. Maintain watering for duration of contract, and specifically follow establishment guidelines available from certified turf supplier.

	4. HARDSCAPE WORKS
eptance of the	4.01. General The Contractor shall undertake the set out and installation of all hardscape works as detailed on the drawings or where not detailed to manufacturers specification. The Cliev
he development.	(Landscape Architect) must be notified of any deviation from the drawings, and written approval provided prior to installation by The Contractor. All workmanship shall be of the highest standard.
	For all paving works refer to typical details provided, and applicable Australian Standards. The Contractor must provide samples of all paving materials prior to construction. A shall be free-draining and evenly graded between levels points.
	All service pit lids must be infilled with paving to match the surrounding surface treatment, unless otherwise specified. Australian Standards shall be adhered to in relation to all concrete, masonny, and metal work. Some details are twoical and may vary on site
n / leading hand will	4.02. Timber Leaching
t the following	Leaching of hardwood timber will occur. All timber must be pre-leached before installation to prevent staining of surrounding materials. Following installation all surrounding materials and the surrounding materials are supported by the surrounding materials are supported by the support of
J.	covered/protected until the leaching process is complete. Any staining to elements such as paving, walls or furniture must be cleaned in accordance with recommendations o If leaching continues to occur at the time of handover, the Contractor must provide maintenance requirements for all affected elements. 5. IRRIGATION
	5.01. General (performance specification)
	New irrigation systems to planting areas shall be a commercial grade irrigation system conforming to all Australian Standards, including AS3500 & the Electrical Safety Act 2 Health & Safety Act 1995 & the latest Sydney Water Code
	An automated subsurface drip irrigation system equal to Rain Bird® XFS Sub-Surface Copper-Colored Dripline with Copper Shield™ Technology (as available from Rain Bird®
	1800 724 624) is to be installed to all gardens, planters, and lawn areas in accordance with the approved irrigation design.
	I his system shall be designed and installed by a qualified and licensed irrigation specialist, to the highest industry standards and to maximise the efficient usage of water. The installer is required to obtain all approvals necessary for the completion of works in accordance with laws of Australia, laws of the State. Council by laws and ordinances
odology	Drawings
Sublegy.	The Landscape Contractor nominated Licensed Irrigation Specialist shall provide irrigation drawings for approval upon engagement.
	Design Requirements The irrigation system shall be installed prior to all planting works.
	 It shall incorporate a suitable backflow prevention device for the scale of works, an in-line filter, check valves, and suitable high and low density poly hose fittings and
	achieve flow rates suitable for specified planting.
	 The irrigation application rate shall not exceed the infiltration rate of the soil or create run-off. The landscape contractor shall check the existing pressure evailable from the ring mains and size irrigation piping to suit. Supply shall be from legal base cock / Quie
machinany ranaira	(QCV) where available.
machinery repairs	• Quick-Coupling Valves (QCV) must be located inside lockable valve boxes, concealed from view within garden areas, and distributed to ensure ability for watering all
	20m hose. Contractor must provide sample valve box and QCV for review and approval prior to installation.
roote greater then	 Size of pipes shall be selected to ensure the working pressure at the end of the line does not decrease by more than 5%.
roots greater than	Services Coordination
	Coordination required by Landscape Contractor or Project Manager to provide required conduit, pipe work and penetration through slabs and planter walls for water a
	• Project Manager and Landscape Contractor to establish area suitable for irrigation control system with required area, power provision, and water supply. Testing and Defects
nting Plan(s), tully nt trees to be	Upon completion of installation, the system shall be tested, including:
	 Main Line Pressure Test: The main line is pressurised to test for leaks. All valves are shut and the pressure is taken over a determined length of time.
	 Dripper Pressure Lest: Measurement at flushing valves is taken and the pressure gauged to make sure it conforms to the manufacturer recommendations. The inlet tested under the same conditions to check it does not exceed 300Kna
ure they are	 All components are to be satisfactorily functional and operational prior to approval. Should any defect develop, or the capacity or efficiency of the system decline during definition of the system decline during definition.
	maintenance period, then these faults shall be immediately rectified.
	Warranty A minimum 12 month warranty shall be included to cover labour and all parts.
	6. Maintenance
	6.01. General
	 Maintenance shall mean the care and maintenance of contracted works by accepted landscaping or norticultural practices, ensuring that all plants are in optimum gro appearance at all times, as well as rectifying any defects that become apparent
planting. Tests	 The maintenance period shall be 52 weeks beginning from the approved completion of the specified construction work (Practical Completion).
f this test.	• Prior to requesting practical completion, The Contractor shall make good / repair any damaged areas, including but not limited to existing turf, planting, pavements, k
	signage, buildings, services. All must be returned to a condition equivalent to that prior to commencement of works. Contractor shall leave areas over which Contractor shall be responsible for removal from site of all unwanted material and debris resulting from the
surface drains, prior	 A gualified landscape maintenance contractor shall undertake the required landscape maintenance works. Timing of maintenance works shall be spread regularly over the spread regularity over the spread regilarity over the spre
	period. Duties shall include, but not be limited to:
Contractor must	maintenance of all paving, retaining and hardscape elements;
	 watering of planting/turnareas and impation maintenance, removal of any weed growth or litter/debris:
ried out on mass	 replacing failed plants (at no additional cost to the Client unless due to vandalism or some other reason beyond the Contractors control, at discretion of Clien
h laver to achieve	make good areas of soil subsistence or erosion;
,	 topping up or mulch; spraving of plants as necessary to combat insects or disease;
	 fertilising with approved fertilisers at correct rates;
	 mowing lawns & trimming edges as required to maintain neat finish;
een unloaded off the	 adjusting ties to stakes; pruning in accordance with Australian Standard 4272 "Pruning of Amonity Trace"
and record the time,	 The Landscape Contractor must keep a logbook of all maintenance activity, and submit with each progress claim as evidence of works undertaken.

responsibility will be signed over to the Client.

tion. The Client's representative

construction. All finished surfaces

surrounding materials must be mendations of the product supplier.

I Safety Act 2002, Workplace from Rain Bird Australia Pty Ltd e of water.

se fittings and PVC piping to

se cock / Quick-Coupling Valve or watering all garden areas with a

alls for water and power provisions.

ons. The inlet pressure is then decline during the agreed

optimum growing conditions and

pavements, kerb and gutter. vhich Contractor has worked in a ulting from this work. d regularly over maintenance

retion of Client's representative);

On completion of the maintenance period, the landscape works shall be inspected and at the satisfaction of the Superintendent or Client's representative (Landscape Architect), the

GENERAL NOTES

1. THIS DRAWING IS COPYRIGHT AND IS THE PROPERTY OF TURF DESIGN STUDIO 2. MUST NOT BE USED WITHOUT PERMISSION. THIS DRAWING IS AN UNCONTROLLED COPY UNLESS STAMPED WITH STATUS

- 3. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND LEVELS ON SITE AS THIS IS 4. NOT A SHOP DRAWING THE CONTRACTOR MUST REFER ANY DISCREPANCIES TO THE SUPERINTENDENTS 5. REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR MUST NOT SCALE FROM THESE DRAWINGS. USE NOMINATED 6. DIMENSIONS AND LEVELS. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE TOTAL CONTRACT PACKAGE INCLUDING DRAWINGS AND SPECIFICATIONS OF ALL CONSULTANTS. 7. IF THE CONTRACTOR INTENDS TO UNDERTAKE ANY EXCAVATION WORK. IT IS THE
- CONTRACTORS RESPONSIBLITY TO CONTACT 1100 DIAL BEFORE YOU DIG OR WWW.1100.COM.AU SURVEY INFORMATION
- 8. TURF DESIGN STUDIO DO NOT WARRANT THE ACCURACY OF SURVEY INFORMATION

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A 17/02/2022 50% DESIGN DEVELOPMENT CW SJ Rev Date Description Drawn Checked



Client

UMBERLAND

Merrylands Civic Square



PROPOSED	PLANTING SCHEDULE					
CODE	BOTANICAL NAME	COMMON NAME	MATURE SIZE	CENTRES	POT SIZE	QUAN
TREE SPEC	IES					
(e)Pla	Platanus × acerifolia	London Plane	Existing on site	-	-	3
Aba	Angophora bakeri	Narrow-Leaved Apple	(h)10m x (w)10m	As Shown	400lt	6
Cma	Corymbia maculata	Spotted Gum	(h)30m x (w)10m	As Shown	800lt	5
Kbi	Koelreuteria bipinnata	Chinese Golden Rain Tree	(h)10m x (w)8m	As Shown	800lt	9
Mde	Melaleuca decora	White Feather Honeymyrtle	(h)6m x (w)4m	As Shown	400lt	5
GROUNDCC	VERS AND CLIMBERS					
CODE	SPECIES	COMMON NAME	CENTRES(mm)	POT SIZE	QUANTITY	TOTA
MIX 1	Dichopogon fimbriatus Lissanthe strigose Arthropodium milleflorum Dillwynia sieberi Ozothamnus diosmifolius Daviesia ulicifolia Indigofera Australis Dianella revoluta Eremophila debilis Einadia nutans Billardiera scandens Wahlenbergia gracilis Asperula conferta Hardenbergia violacea (climber) Dianella longifolia Pratia purpurascens Hibbertia scandens (climber) Lomandra filiformis Myoporum parvifolium Dichondra repens	Nodding Chocolate Lily Peach Heath Pale Vanilla Lily Prickly Parrot-Pea Rice Flower Gorse Bitter Pea Australian Indigo Blueberry Lily Winter Apple Climbing Saltbush Apple Berry Sprawling Bluebell Common Woodruff False Sarsaparilla Blueberry Lily White Root Snake Vine Wattle Mat-Rush Creeping Boobialla Kidney Weed	500	200	1598	399 m ³

Please note: In addition to the specification (where provided) the following controls will apply to plant material brought to site. Where any perceived conflict arises the listed items below are to prevail: The head contractor must place the plant order for the whole site within 2 weeks of signing the head contract to ensure the plant nursery has enough time to source and grow on plant stock. The Genus and Species nominated must be delivered to site in the total quantity specified. Varieties and hybrids of the same genus are not a suitable substitute. Unapproved substitutes will be defected and require replacement.

Unapproved reductions to the specified pot sizes will be defected and require replacement, or where approved by client, a cost credit will be applied. 4.

Acceptance of plant stock is wholly at the discretion of the client. Plants deemed to be unsuitable for any reason (damage, root girdling, poor health, no vigorous, yellowing leaves, insect 5. predation, water stress... etc.) can be rejected by the client and will require replacement at the contractors expense.

Plants that are deemed too small for the pot size nominated (as determined by the client and/or the clients representative) will be defected and require replacement. It is incumbent upon the contractor to maintain appropriate quality controls to minimise costly and timely defects rectification.

Liaison with the plant nursery, inspecting and receiving plant stock must be undertaken by a qualified horticulturist with a minimum of 5 years practical experience on construction projects. The 8. name and qualifications of the horticulturist must be submitted for approval within 2 weeks of the head contract being award. The client may accept or reject the submission and the contractor must seek an alternative horticulturist to the satisfaction of the client. Where not under the employ of the contractor, the contractor must hire a horticulturist for the project. The horticulturist must liaise with the client and clients' representative on all plant related issues and be present at any site inspection during soil, irrigation, and plant installation.





SITE CONTEXT - DCP LOTS & HEIGHTS

DCP DEVELOPMENT LOTS

DCP BUILT FORM



Figure 9: Preferred site Amalgamation Plan

DCP Page F2 179



Figure 10: Built Form

DCP Page F2 180

VIEW | LOOKING SOUTH FROM MCFARLANE STREET BUILDINGS MODELLED INDICATIVELY BASED ON DCP





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DP 1260444	DP1210565	DP1210565	DP1210565	DP383945	DP658197

(C) EASEMENT (C866493)

(E) EASEMENT FOR UNDERGROUND MAINS (P93744)

(F) RIGHT OF CARRIAGEWAY (F273576)

(P) EASEMENT FOR ELECTRICITY PURPOSES (P699694)

SURVEYOR	PLAN OF SUBDIVISION OF L
Name : RPS SURVEYOR	DP7916
Date : xx.xx.20xx	
Reference : PR150177_DP1	
(PR150177-DP1-A.dwg)	-

	CARDEN		MCFARLANE STRE	ET
		POST BOX PAVED AREA		
		GRATED DRAIN ALONG F OF NORTHEF TO CAPTURE RUNOFF TO	ULL EXTENTS IN BOUNDARY THE STREET	
	HATCH DENOT	ES LANDSCAPE LOAD BEARING 'STRA REFER TO ARCHITECT'S	TAVAULT' CELLS. SPECIFICATIONS	0
			+ +	++ + ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	STAGE 2	TO CONNECT TO EXISTING SYDNEY W ALONG FULL EXTENTS OF NORTH TO CAPTURE RUNOFF	VATER CULVERT. GRATED DRAIN IERN BOUNDARY TO THE STREET	0
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DRAINAGE WORKS GENERAL PLAN

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SITE BOUNDARY

Ø225 C.E. @1.0%

SEALED LID

'StrataVault' CELLS

SW PROPOSED STORMWATER PIPE, MIN 1% SLOPE U.N.O.

PROPOSED STORMWATER PIT, GRATED LID

PROPOSED STORMWATER JUNCTION PIT,

PROPOSED 100mm WIDE GRATED DRAIN

PROPOSED SUBSOIL DRAINAGE

PROPOSED PERVIOUS AREAS. REFER TO ARCHITECT'S DRAWINGS

SLOPE CONCRETE ENCASED (IF APPLICABLE)

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EROSION AND SEDIMENT CONTROL NOTES

- 1. All work shall be generally carried out in accordance with (A) Local authority requirements,
- (B) EPA Pollution control manual for urban stormwater, (C) LANDCOM NSW - Managing Urban Stormwater: Soils and Construction ("Blue Book").
- 2. Erosion and sediment control drawings and notes are provided for the whole of the works. Should the Contractor stage these works then the design may be required to be modified. Variation to these details may require approval by the relevant authorities. The erosion and sediment control plan shall be implemented and
- adapted to meet the varying situations as work on site progresses. 3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
- 4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
- 5. Minimise the area of site being disturbed at any one time. 6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in
- watercourses. 7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site
- conditions. 8. Control water from upstream of the site such that it does not
- enter the disturbed site. 9. All construction vehicles shall enter and exit the site via the
- temporary construction entry/exit. 10. All vehicles leaving the site shall be cleaned and inspected before leaving.
- 11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
- 12. Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

- 1. Prior to commencement of excavation the following soil
- management devices must be installed. 1.1. Construct silt fences below the site and across all potential
- runoff sites. 1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
- 1.3. Construct measures to divert upstream flows into existing
- stormwater system. 1.4. Construct sedimentation traps/basin including outlet control and overflow (if required).
- 1.5. Construct turf lined swales. 1.6. Provide sandbag sediment traps upstream of existing pits.
- 2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
- 3. On completion of pavement provide sand bag kerb inlet sediment traps around pits. 4. Provide and maintain a strip of turf on both sides of all roads
- after the construction of kerbs.

WATER QUALITY TESTING REQUIREMENTS

Prior to discharge of site stormwater, groundwater and seepage water into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- Compliance with the criteria of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000) If required subject to the environmental consultants advice, provide remedial measures to improve the quality of water that is to be discharged into Councils storm water drainage system. This should include comments from a suitably qualified environmental consultant confirming the suitability of these remedial measures to manage the water discharged from the site into Councils storm water drainage system. Outlining the proposed, ongoing monitoring, contingency plans and validation program that will be in place to continually monitor the quality of water discharged from this site. This should outline the frequency of water quality testing that will be undertaken by a suitably qualified environmental consultant.

EROSION A	ND SE	EDIMI	ENT
CONTROL F	PUMP	OUT	NOTES

Any accumulated water contaminated with sediment, from a sediment basin or excavation pit, is to be flocculated or filtered in order to lower the suspended solid load to less than 50mg per litre gypsum gas or other approved flocculant should be applied within 24 hours of the end of the storm event. The gypsum must be spread evenly over the entire water surface. Pumping is not to occur for at least 36 hours and preferably 48 hours after application. Clean water is to be discharged to the water table via a hale bail sediment filter in a way that does not pick up sediment that has dropped to the bottom. Note: gypsum is a hydrated form of calcium sulphate and is

available at many swimming pool shops and hardware stores.

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Australia	PROJECT ADDRESS	
Telephone (02) 8904 1444 Facsimile (02) 8904 1555 www.enstruct.com.au enstruct		



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	SITE BOUNDARY
SW .	PROPOSED STORMWATER PIPE, MIN 1% SLOPE U.N.O.
	PROPOSED STORMWATER PIT, GRATED LID
	PROPOSED STORMWATER JUNCTION PIT, SEALED LID
	PROPOSED 100mm WIDE GRATED DRAIN
SS	PROPOSED SUBSOIL DRAINAGE
	PROPOSED PERVIOUS AREAS. REFER TO ARCHITECT'S DRAWINGS
	'StrataVault' CELLS
୍ଟ FP	PROPOSED FLUSHING POINT
ାR ୦	PROPOSED INSPECTION RISER
F22.00	FINISHED CONTOUR
RW#	RETAINING WALL
—— eD— ——	EXISTING STORMWATER
——————————————————————————————————————	EXISTING ELECTRICAL
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SEALED LID

PROPOSED 100mm WIDE GRATED DRAIN

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PROPOSED INSPECTION RISER FINISHED CONTOUR RETAINING WALL

EXISTING STORMWATER EXISTING ELECTRICAL

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-	MERRYLANDS ROAD -	[– EX. KERB	- MINOR RIDGE	
-		F			3.0%
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DATUM 15.000m					
DESIGN LEVELS			20.361	20.328 19.900	
EXISTING LEVELS			20 380	20.328 19.900	
CHAINAGE 8	2.752	3.264	3.547 3.547	10.000	

LONGSECTION1

-		-1.6%	
-			
DATUM 15.000m	3 ABC		
DESIGN LEVELS	18.540	18.380	18.215
EXISTING LEVELS	CON1 18.540	18.380	18.215
CHAINAGE	70.000	80.000	90.000

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