

TURF-

20

ROOTBALI DEPTH

300

100

TREE CORRIDOR IS 400 WIDE WITH CENTRELINE BEING 650 OFF REAR OF KERB. REFER BSD-1013 OR BSD-1015 FOR SERVICE CORRIDOR WIDTHS.

STAKE TREES AS PER PLANT SCHEDULE. 2 x STAKES REQUIRED (1800x50x50) LOCATED PARALLEL TO KERB. LOCATE STAKES 50 OUTSIDE ROOTBALL AND DRIVE 600 INTO GROUND. TIE WITH 2 APPROVED BLACK PVC INTERLOCKING TIES, IN A FIGURE EIGHT MANNER.

TREE CENTRE.

TREE CANOPY DIAMETER.

MULCH COLLAR GENERALLY 75 THICK x 300 RADIUS. FINISH MULCH 25 BELOW ADJACENT FSL. TYPE OF MULCH AS SPECIFIED. MAINTAIN 50-100 RADIUS SEPARATION BETWEEN MULCH AND STEM OF TREE. TREE STAKE AS ABOVE.

– TURF

NOTE: VERIFY LOCATION OF SERVICES PRIOR TO EXCAVATION OF TREE HOLE.

PLANT TYPE AS PER PLANT SCHEDULE.

MULCH GENERALLY 75 THICK AS ABOVE, FINISHED 25 BELOW ADJACENT FSL.

TURF AS SPECIFIED ON 100 THICK MINIMUM TOPSOIL. FINISH TURF
FLUSH WITH ADJACENT HARDSTAND SURFACE AND KERB LEVELS.

PLACE THE PLANT IN THE HOLE SO THAT THE TOP OF THE ROOTBALL IS 20 BELOW THE FINISHED SURROUNDING SOIL LEVEL TO FORM SHALLOW DEPRESSION IN SOIL AROUND ROOTBALL FOR IMPROVED WATER RETENTION. BACKFILL AND COMPACT WITH TOPSOIL AROUND ROOTBALL, ENSURING NO AIR POCKETS REMAIN.

<u>IF SPECIFIED</u>, FOR AGGRESSIVE TREE ROOTS, USE NYLEX ROOT BARRIER OR APPROVED EQUIVALENT. MINIMUM 600 DEPTH TO ROAD SIDE OF TREE PIT. LENGTH OF ROOT BARRIER AS SPECIFIED.

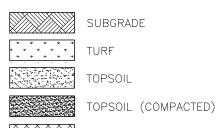
PLACE SLOW RELEASE FERTILISER AROUND THE ROOTBALL TO MANUFACTURER'S SPECIFICATIONS. LIGHTLY COMPACT TOPSOIL IN 150 LAYERS AND PLACE ROOTBALL ON TOP.

<u>IF SPECIFIED</u>, 450 "MEGAFLOW" STRIP DRAIN OR APPROVED EQUIVALENT TO ROAD SIDE OF TREE PIT.

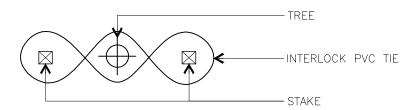
IF SPECIFIED, 100 THICK GRAVEL DRAINAGE LAYER, LOCATED A MINIMUM 300 BELOW PAVEMENT MATERIAL. 5 OR 10 NOMINAL SINGLE SIZE SCREENINGS WITH FILTER FABRIC (BIDIM) A14 OR EQUIVALENT ON TOP. 1000 CORRUGATED PERFORATED POLYETHYLENE PIPE CLASS 400 TO DEWATER DRAINAGE LAYER AND PROTECT PAVEMENT FROM WATER INGRESS. CONNECT TO STORMWATER.

CULTIVATE SUBGRADE AND TREE PIT WALL TO 100.

LEGEND



MULCH



TREE TIE DETAIL

NOTES

- REFERENCE SPECIFICATION S190 LANDSCAPING SHOULD BE READ IN CONJUNCTION WITH THIS DRAWING.
- 2. SIDE DRAINS SHALL OUTLET TO A GULLY, PREFERABLY, OR STORMWATER PIPE.
- 3. 1000 CORRUGATED PERFORATED POLYETHYLENE (PE) PIPE AND FITTINGS TO BE CLASS 400 TO AS 2439.
- 4. USE STANDARD FITTINGS FOR ALL CONNECTIONS INCLUDING THE JOINING OF LENGTHS OF CORRUGATED PIPE.
- 5. DRAINAGE PIPES TO BE LAID TO A MINIMUM GRADE OF 1 in 250 FOR PIPE DRAINS AND TO A MINIMUM GRADE OF 1 in 100 FOR SCREENING ONLY DRAINS.
- 6. SCREENING SURROUND AND THE BACKFILL PAVEMENT MATERIAL MUST BE ADEQUATELY COMPACTED TO PROVIDE FLEXIBLE PIPE SUPPORT AS REQUIRED IN ACCORDANCE WITH AS 2566.
- 7. SUPPLY AND INSTALL PANEL DRAINS, IF USED, REFER TO THE MANUFACTURERS SPECIFICATIONS.
- 8. GRADING OF SINGLE SIZE SCREENING MATERIALS.

A.S. SIEVE SIZE(mm)	%PASSING (%	BY WEIGHT)
	<u>5mm NOMINAL SIZE</u>	10mm NOMINAL SIZE
13.2	_	100
9.50	_	85-100
6.70	100	_
4.75	85-100	0-20
2.36	0-40	0-5
0.075	0-2	0-2

9. DIMENSIONS IN MILLIMETRES (UNO).

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	SENIOR PROGRAM OFFICER - LANDSCAPE AMENITY	ASSOCIATED PLANS	SUPERSEDES UMS-511		
А	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	L. PLANT SIGNATURE ON ORIGINAL DATED 27/6/01	DRAWING FILENAME	BSD-9001 (A) Tree planting wil	thin turf areas	s to footpath.dwg
					DESIGN APPROVED	CHECKED	K. FOSTER	DATE	MAY '01
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	CITY DESIGN	DATE	APRIL '01
					DRAWING AUTHORISED FOR PUBLICATION B. BALL SIGNATURE ON ORIGINAL DATED 29/6/01		Std Dwgs WG	DATE	APRIL 01

100

PAVEMENT MATERIAL

XXXXX

ROOTBALI

SECTION A-A

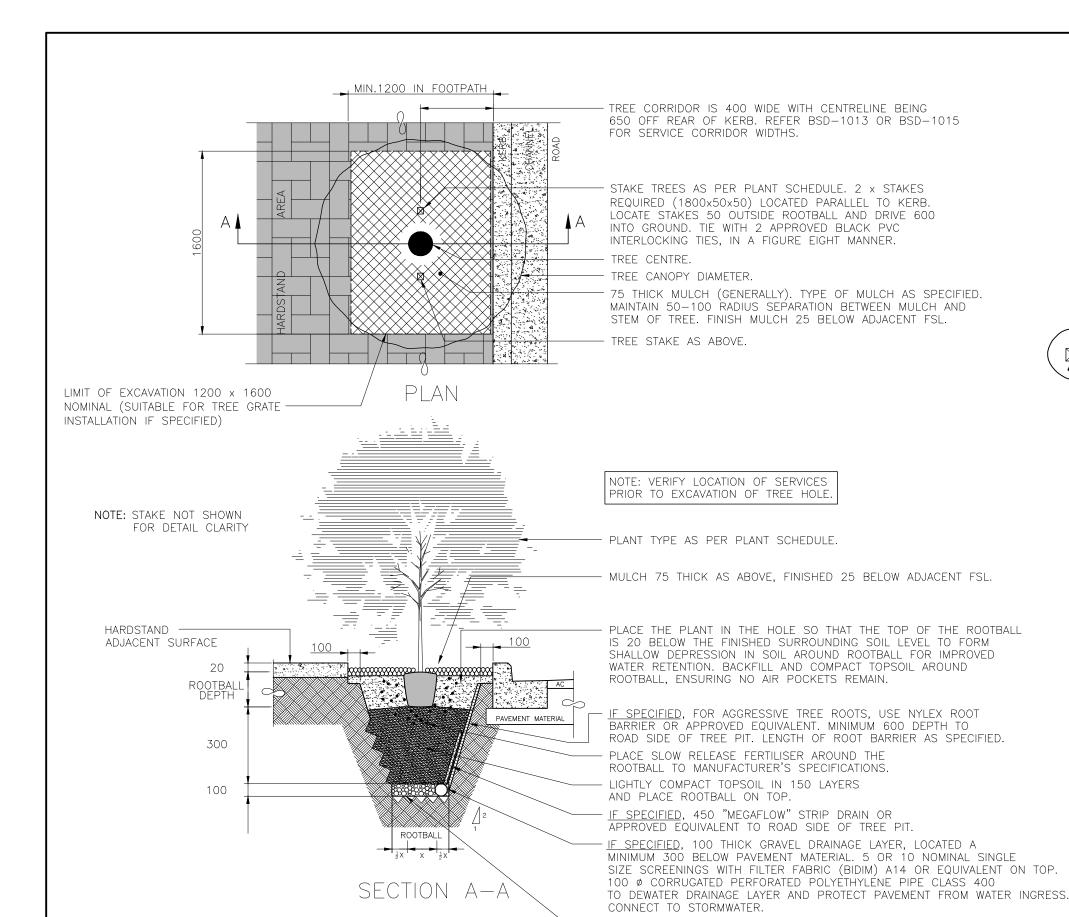
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BRISBANE CITY COUNCIL STANDARD DRAWING

TREE PLANTING WITHIN TURF AREAS TO FOOTPATH

SCALE	NOT	TO	SCAL	E
DWG No.				
E	3SE)—	900)1
ORIGINAL SIZE			REVISION	
Д	٧3			А



LEGEND



SUBGRADE



HARDSTAND AREA



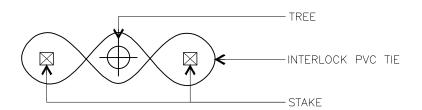
TOPSOIL



TOPSOIL (COMPACTED)



MULCH AREA



TREE TIE DETAIL

NOTES

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A.S. SIEVE SIZE(mm)	%PASSING (%	BY WEIGHT)
	<u>5mm NOMINAL SIZE</u>	<u> 10mm NOMINAL SIZE</u>
13.2	_	100
9.50	_	85-100
6.70	100	_
4.75	85-100	0-20
2.36	0-40	0-5
0.075	0-2	0-2

9. DIMENSIONS IN MILLIMETRES (UNO).

Α Ι	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	DATED 27/6/01	FILENAME	BSD-9002 (A) Tree planting in p	avement areas	to footpath.dwg
					L. PLANT SIGNATURE ON ORIGINAL	DRAWING	000 0000 (1) 7		
					DESIGN APPROVED	CHECKED	K. FOSTER	DATE	MAY '01
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT				
					DATED 29/6/01	DRAWN	CPO - P&D	DATE	APRIL '01
					DRAWING AUTHORISED FOR PUBLICATION B. BALL SIGNATURE ON ORIGINAL	DESIGN	Std Dwgs WG	DATE	APRIL '01

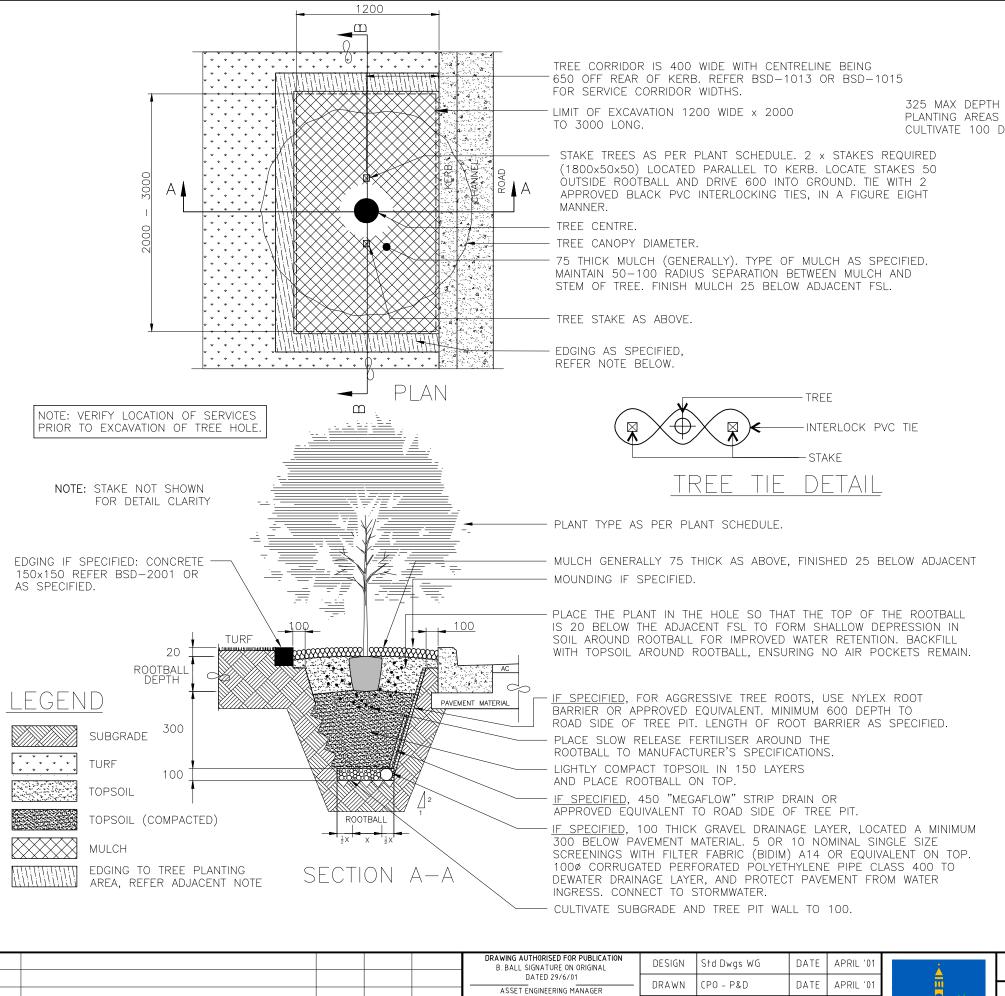


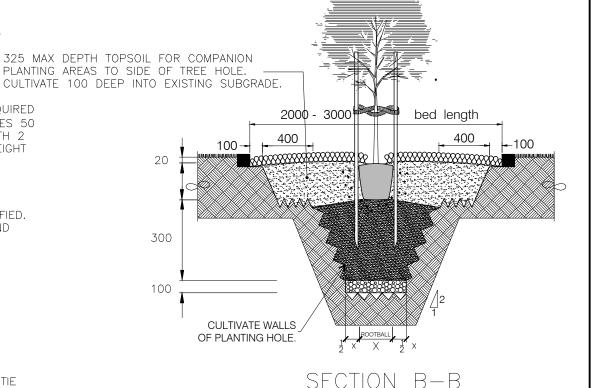
CULTIVATE SUBGRADE AND TREE PIT WALL TO 100.

BRISBANE CITY COUNCIL STANDARD DRAWING

TREE PLANTING IN PAVEMENT AREAS TO FOOTPATH

_		VD L	710	11001110	_
	SCALE	NOT	TO	SCALE	
	DWG No.				
		BSD)—	9002	
	ORIGINAL S	IZE		REVISION	
		Α3		А	





NOTES

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	5mm NOMINAL SIZE	10mm NOMINAL SIZE
13.2	_	100
9.50	_	85-100
6.70	100	_
4.75	85-100	0-20
2.36	0-40	0-5
0.075	0-2	0-2

9. DIMENSIONS IN MILLIMETRES (UNO).

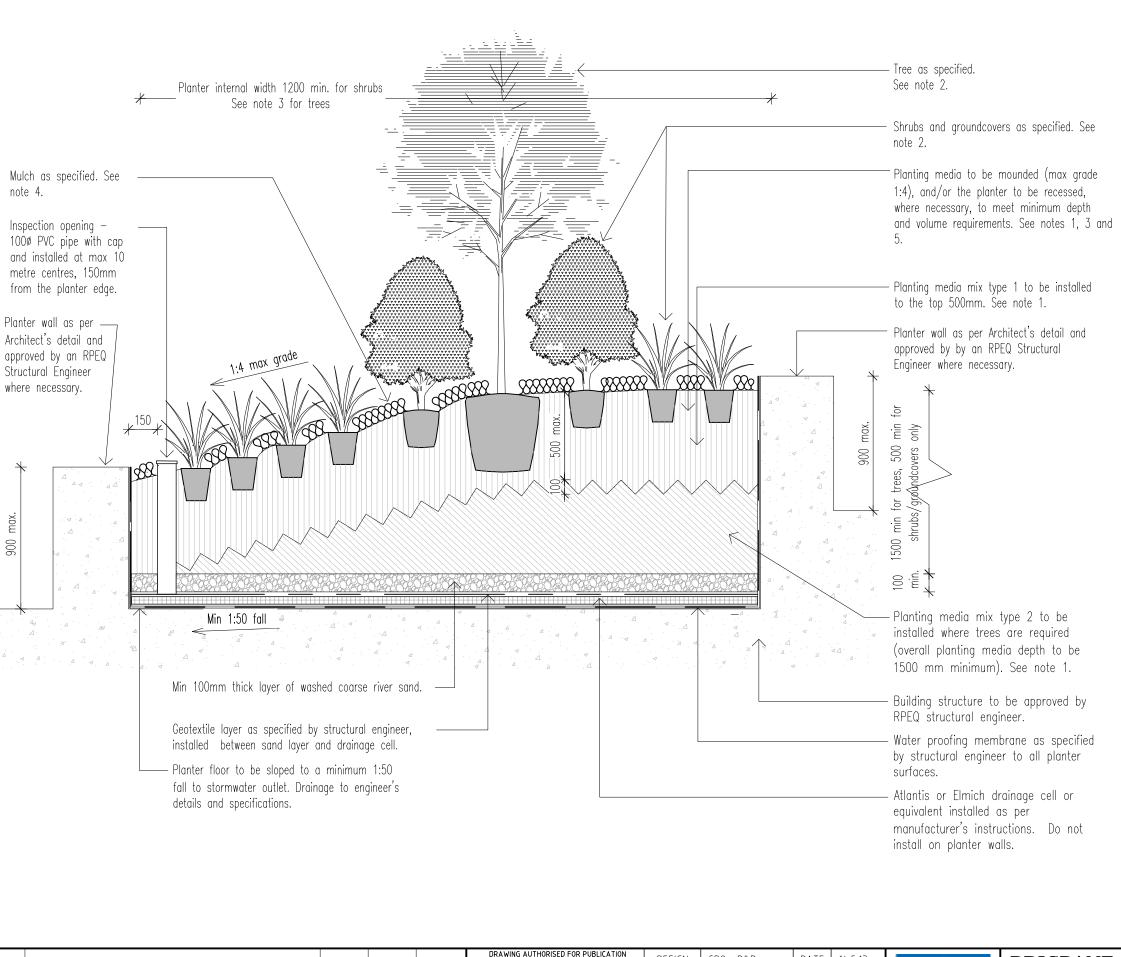
					DRAWING AUTHORISED FOR PUBLICATION B. BALL SIGNATURE ON ORIGINAL	DESIGN	Std Dwgs WG	DATE	APRIL '01
					DATED 29/6/01 ASSET ENGINEERING MANAGER	DRAWN	CPO - P&D	DATE	APRIL '01
					STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	CHECKED	K. FOSTER	DATE	MAY '01
А	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	L. PLANT SIGNATURE ON ORIGINAL DATED 27/6/01	DRAWING FILENAME	BSD-9003 (A) Tree with compan	ion planting be	d to footpath.dwg
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	SENIOR PROGRAM OFFICER – LANDSCAPE AMENITY	ASSOCIATED PLANS	SUPERSEDES UMS-513		



BRISBANE CITY COUNCIL STANDARD DRAWING

TREE WITH COMPANION PLANTING BED TO FOOTPATH

SCALE	NOT	TO	SCAL	E
DWG No.				
E	BSD) —	900)3
ORIGINAL SIZE			REVISION	
Δ	١3			А



GENERAL NOTES

1. Planting media shall be mineral based with low organic matter and shall comply with Table 1, "AS4419—2003 Soils for Landscaping and Garden Use" for low density soils, except that the following values shall apply:

permeability (cm/hr)
water holding capacity (% by mass)
saturated bulk density (kg/l)
bulk density - dry (kg/l)
0.3 - 0.8
Planting media mix type 1

- organic matter (%) 5 - 10

Planting media mix type 2

- organic matter (%) less than 5

Balanced ground rock mineral fertiliser, humates, compost tea and innoculants shall be mixed into the planting media at the rates and composition advised by an AIH registered horticulturist. All soils shall be tested to meet the above requirements and a certificate of compliance shall be submitted to the project superintendent for approval seven (7) working days prior to installation.

- Plant species and stock sizes shall be those advised by an AIH registered horticulturist or AILA registered landscape architect. Trees must be of a form and species that can withstand podium wind loads at maturity. Trees shall be secured in place during the establishment period either with hardwood stakes and hessian ties or with an in-ground anchoring system depending on the site specific conditions and tree stock sizes and as advised by an AIH registered horticulturist or an AILA registered landscape architect. Stakes shall be removed at the completion of the landscape establishment period. Ensure that the rootballs of all plants have been thoroughly moistened prior to planting. Water within 30 minutes after planting.
- 3. The volume of planting media shall be of sufficient capacity to ensure the long term health and vigour of all plants. The volume of planting media for trees shall be calculated as follows:

Planting media in cubic metres = 0.6 x drip line area in square metres (canopy projection) at tree maturity.

For planters containing trees the minimum internal width of the planter shall equal the canopy spread at maturity.

- 4. Mulch composition shall be as recommended by an AlH registered horticulturist and include organic materials that decompose over time and provide an organic substrate for soil biology. Inorganic mulches, such as river stones and gravels, shall not be used.
- 5. Irrigation shall be supplied from a non-potable water source, unless based on an approved WEMP, and shall be designed and constructed to meet the long term needs of plant material, delivered by sub-surface irrigation spears and at a frequency that avoids wilting point.

Abbreviations:

AIH — Australian Institute of Horticulture AILA — Australian Institute of Landscape Architects RPEQ — Registered Professional Engineer of Queensland WEMP — Water Efficiency Management Plan min — minimum; max — maximum

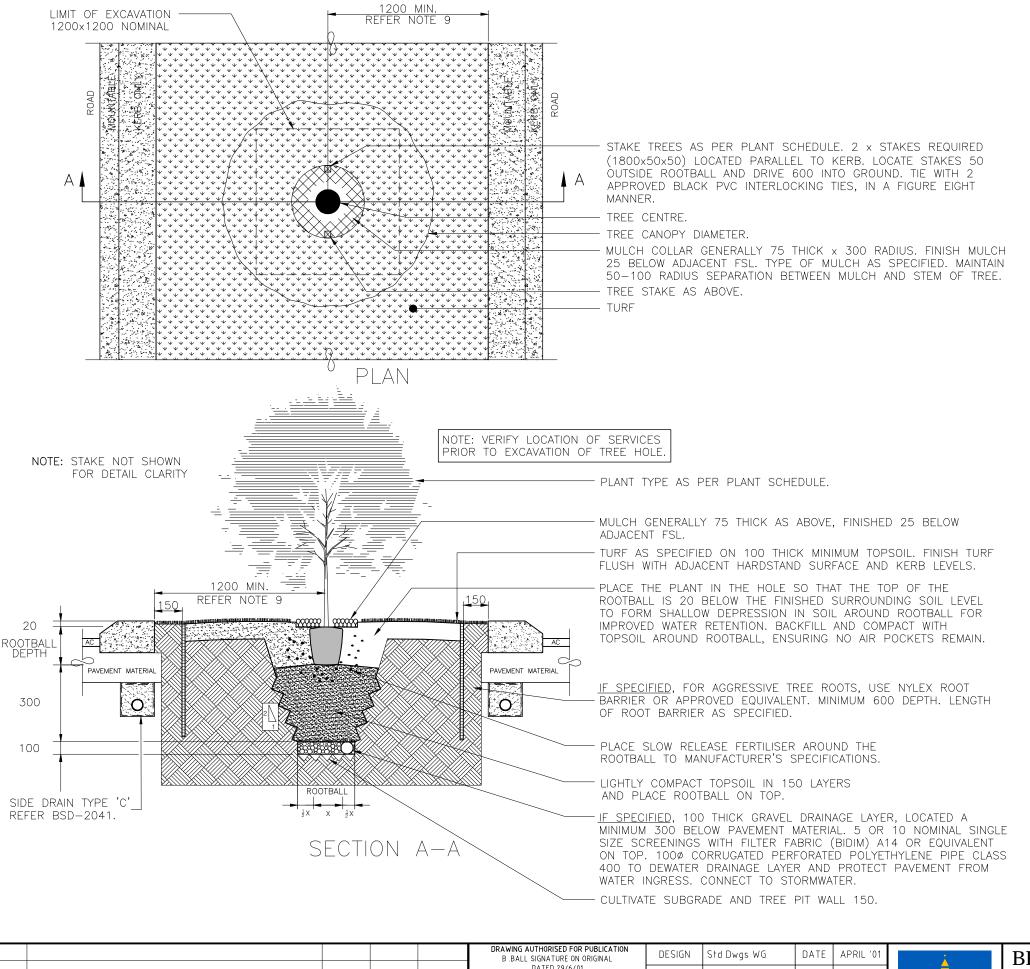
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN UNIT	ASSOCIATED PLANS	SUPERSEDES UMS 513-2		
А	Drawing Converted From UMS Series April 2014		APR '14		VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-9004 (A) Podium planter de	tails - trees o	n podium detail.dwg
					STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	CHECKED	CPO - D&P	DATE	14.5.13
						DRAWN	CPO - D&P	DATE	14.5.13
					DRAWING AUTHORISED FOR PUBLICATION	DESIGN	CPO - D&P	DATE	14.5.13



BRISBANE CITY COUNCIL STANDARD DRAWING

PODIUM PLANTER DETAILS -TREES ON PODIUM DETAIL

1	DARD DRAWING							
	scale 1:20							
	DWG No.	BSD-	9004	-				
	ORIGINAL SIZI		REVISION	_				
	P	'\		А				

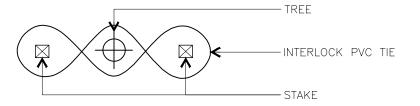


LEGEND









TREE TIE DETAIL

NOTES

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13.2	_	100
9.50	_	85-100
6.70	100	_
4.75	85-100	0-20
2.36	0-40	0-5
0.075	0-2	0-2

- 9. IF TREE IS LOCATED CLOSER THAN 1200mm TO THE KERB, THEN BSD-9001 SHALL BE ADOPTED IN LIEU OF THIS STANDARD.
- 10. DIMENSIONS IN MILLIMETRES (UNO).

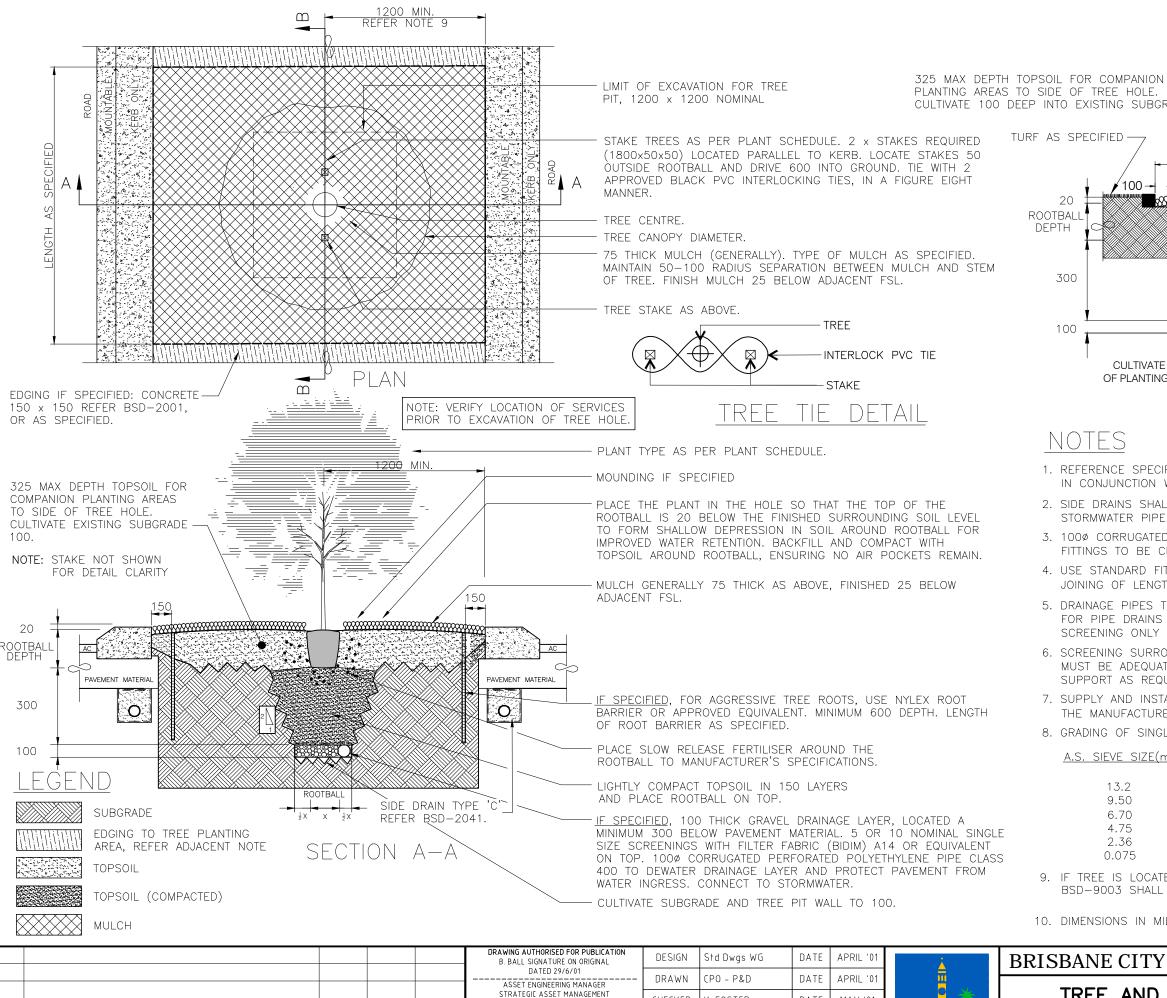
					DRAWING AUTHORISED FOR PUBLICATION B.BALL SIGNATURE ON ORIGINAL	DESIGN	Std Dwgs WG	DATE	APRIL '01
					DATED 29/6/01 ASSET ENGINEERING MANAGER	DRAWN	CPO - P&D	DATE	APRIL '01
					STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	CHECKED	K. FOSTER	DATE	MAY '01
А	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	L. PLANT SIGNATURE ON ORIGINAL DATED 27/6/01	DRAWING FILENAME	BSD-9005 (A) Tree planting w	ithin turf area	as to medians.dwg
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	SENIOR PROGRAM OFFICER - LANDSCAPE AMENITY	ASSOCIATED PLANS	SUPERSEDES UMS-514		

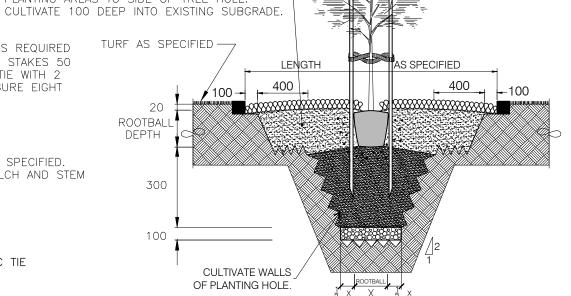


BRISBANE CITY COUNCIL STANDARD DRAWING

TREE PLANTING WITHIN TURF AREAS TO MEDIANS

SCALE NOT TO	SCALE
DWG No.	
BSD-	9005
ORIGINAL SIZE	REVISION
Α3	А





NOTES

1. REFERENCE SPECIFICATION S190 LANDSCAPING SHOULD BE READ IN CONJUNCTION WITH THIS DRAWING.

SECTION B-B

- 2. SIDE DRAINS SHALL OUTLET TO A GULLY, PREFERABLY, OR STORMWATER PIPE.
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	5mm NOMINAL SIZE	<u> 10mm NOMINAL SIZE</u>				
13.2	_	100				
9.50	_	85-100				
6.70	100	_				
4.75	85-100	0-20				
2.36	0-40	0-5				
0.075	0-2	0-2				

- 9. IF TREE IS LOCATED CLOSER THAN 1200mm TO THE KERB, THEN BSD-9003 SHALL BE ADOPTED IN LIEU OF THIS STANDARD.
- 10. DIMENSIONS IN MILLIMETRES (UNO).

Std Dwgs WG	DATE	APRIL '01	
CPO - P&D	DATE	APRIL '01	
K. FOSTER	DATE	MAY '01	
BSD-9006 (A) Tree and gard	Jjjum Íl		
SUPERSEDES UMS-515			BRISBA

NE CITY

CHECKED

DRAWING FILENAME

DESIGN APPROVED L. PLANT SIGNATURE ON ORIGINAL DATED 27/6/01

SENIOR PROGRAM OFFICER

LANDSCAPE AMENITY

APR '14

DRAWN

Drawing Converted from UMS Series April 2014

AMENDMENT

ISSUE

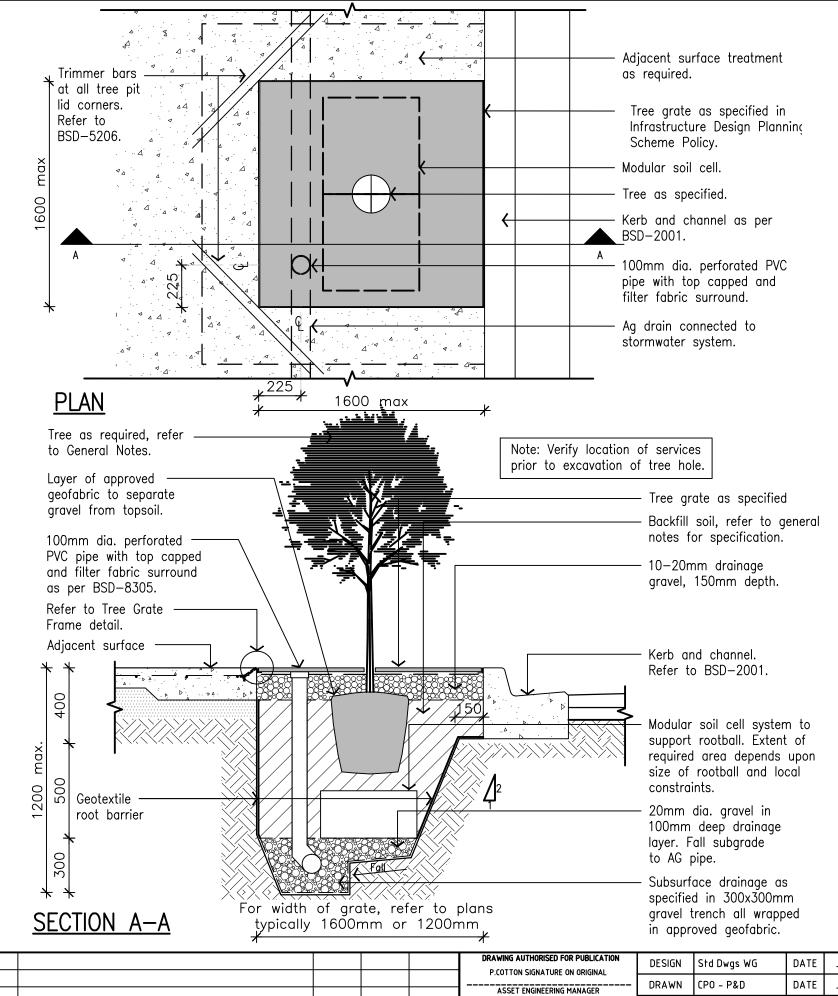
APR '14

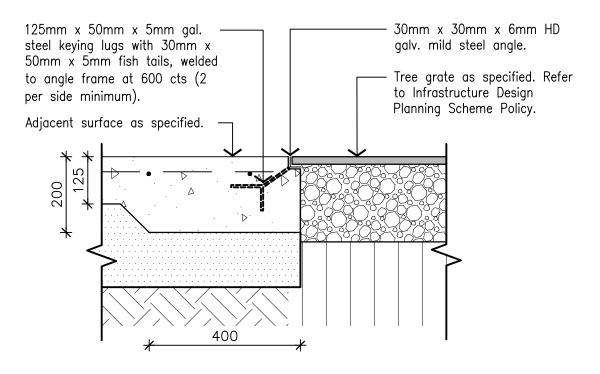
APR '14

BRISBANE CITY COUNCIL STAN	DARI	D D	RAWI	NG
	SCALE	NOT T	O SCALE	

TREE AND GARDEN PLANTING TO MEDIANS

<i>71</i> 11 012	<i>D</i> 10	/1 X V V	1110
SCALE NO	OT TO	SCAL	E
BWG No.			
BS	SD-	900)6
ORIGINAL SIZE		REVISION	
Α3			А





TREE GRATE FRAME DETAIL

GENERAL NOTES

- 1. For tree grate style and locations for use refer to the Infrastructure Design Planning Scheme Policy.
- 2. Ensure tree grate has minimum load rating of class B (class C desired) to AS 3996.
- 3. Tree species to be selected as per Infrastructure Design Planning Scheme Policy (Chapter 5).
- 4. Tree pit to be installed to full depth and width.
- 5. Ensure services have been located prior to excavation. If tree location conflicts with service consult with service provider.
- 6. Where possible incorporate WSUD detail to capture street water. Refer to BSD-9031.
- 7. Location of tree grate can vary depending on width of footpath. Refer to Infrastructure Design Planning Scheme Policy (Chapter 5) for footpath layouts.
- 8. Advanced trees to have appropriate anchor beneath surface.
- 9. Refer to BSD-5202 for concrete and reinforcing mesh details u.n.o.

- 10. Backfill soil blend to conform to the following AS 4419 specs:—
- -no greater than 20% screened well composted organic matter content by volume
- -5.5-7.5 pH
- -0.7-1.0 kg/L or gm/cm3 bulk density
- -approx 60% by volume screened topsoil
 -approx 10% 2-3mm washed deco (to enhance
- -approx 10% medium (.25-1.0mm) river sand
 achieving no greater than 30-50cm /hr hydraulic conductivity; 15-20% water holding capacity; and no greater than 2dS/m electrical conductivity (salinity)
 blend to be no greater than 5°C above ambient are temp
- 11. Modular soil cell is to be structurally certified to carry loads of 10t minimum. Cell is to provide at least 90% free soil volume, with positive vertical and lateral interlocks (and have a minimum of 100mm gaps to allow for root growth) installed as per manufacturer's instructions. Cells are to be backfilled with backfill soil blend as specified above.
- 12. Top of rootball to be equal to top of backfill soil.

 STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

 NAME:
 B. BALAKUMAR
 RPEQ: 3 9 6 3

 SIGNATURE:
 SIGNATURE ON ORIGINAL
 DATE: 28/07 /10

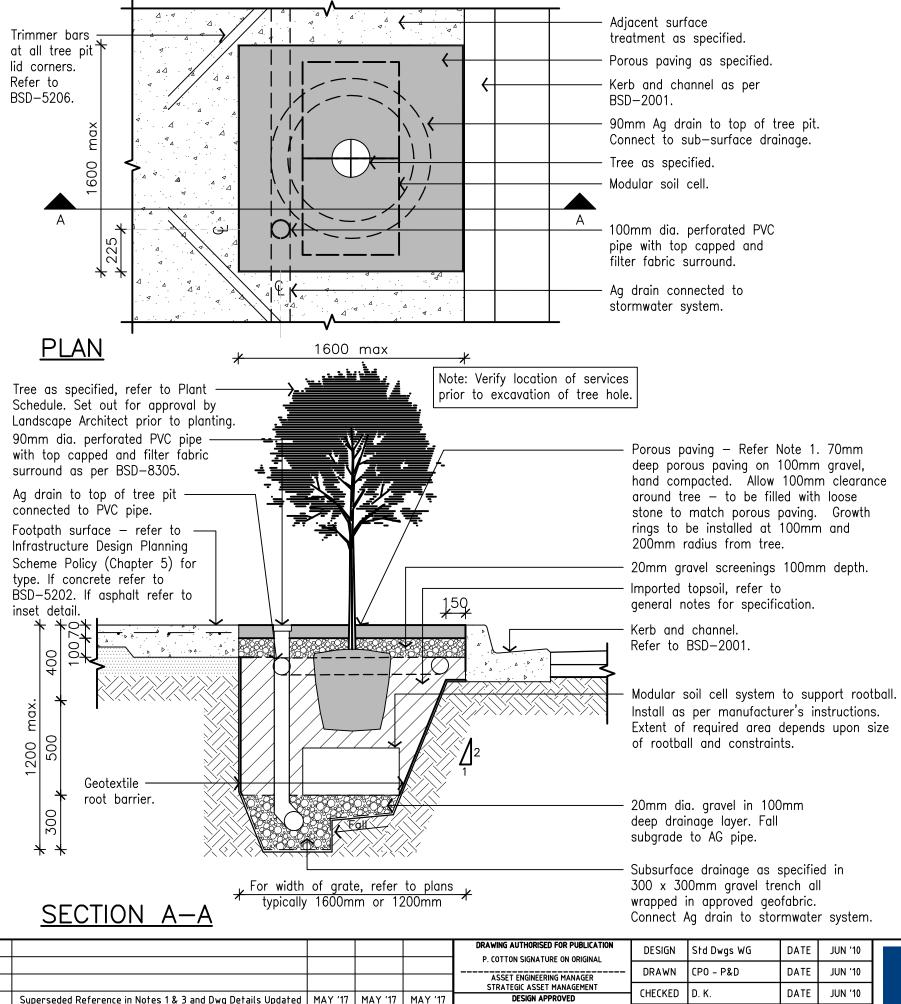
					DRAWING AUTHORISED FOR PUBLICATION P.COTTON SIGNATURE ON ORIGINAL	DESIGN	Std Dwgs WG	DATE	JUN '10
					ASSET ENGINEERING MANAGER	DRAWN	CPO - P&D	DATE	JUN '10
В	Updated Superseded Reference in Notes 1, 3, 7 & Dwg Details	MAY '17	MAY '17	MAY '17	STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	CHECKED	D. K.	DATE	JUN '10
A	Drawing Converted from UMS Series April 2014	APR '14			V. MARTIN SIGNATURE ON ORIGINAL DATED 06/9/10	DRAWING FILENAME	BSD-9008 (A) Tree pit wit	h grate.dwg	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL OFFICER URBAN DESIGN UNIT	ASSOCIATED PLANS	SUPERSEDES UMS-516		

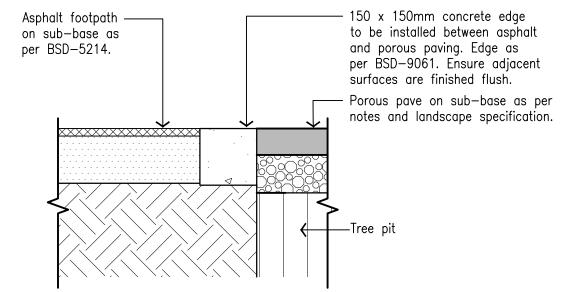


BRISBANE CITY COUNCIL STANDARD DRAWING

TREE PIT WITH GRATE

N 1	IDAKO DIKAWING					
	SCALE NOT	TO SCALE				
	DWG No.					
	RSL	9008				
		3000				
	ORIGINAL SIZE	REVISION				
	Α3	В				





ASPHALT-POROUS PAVING INTERFACE

GENERAL NOTES

- 1. Porous paving to be the following Koonunga (Bellevedere) Grey (3-6mm aggregate range).
- 2. Ensure porous pave is installed flush with surrounding
- 3. Tree species to be selected as per Infrastructure Design Planning Scheme Policy.
- 4. Tree pit to be installed to full depth and width where possible.
- 5. Ensure services have been located prior to excavation. Confirm with service providers if tree location conflicts with
- 6. Where possible incorporate WSUD detail to capture street water. Refer to BSD-9031.
- 7 Refer to BSD-9008 for tree pit soil specifications.
- 8. Refer to BSD-5202 for concrete and reinforcing mesh details unless noted otherwise.
- 9. Refer to BSD-9008 for Modular cell specifications.

DESIGN	REVIEWED AND CERTIFIED FOR ISSUE
NAME:	B. BALAKUMAR RPEQ: 3963
SIGNATU	RE: _SIGNATURE ON ORIGINAL _ DATE: 28/ 07 /10

E	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL OFFICER URBAN DESIGN UNIT	ASSOCIATED PLANS	SUPERSEDES UMS-517		
	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	V. MARTIN SIGNATURE ON ORIGINAL DATED 06/9/10	TILLITATIL	BSD-9009 (A) Tree with po		g.dwg
	Superseded Reference in Notes 1 & 3 and Dwg Details Updated	MAY '17	MAY '17	MAY '17	DESIGN APPROVED	CHECKED	D. K.	DATE	JUN '10
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						DRAWN	CPO - P&D	DATE	JUN '10
					P. COTTON SIGNATURE ON ORIGINAL	DESIGN	Std Dwgs WG	DATE	JUN '10

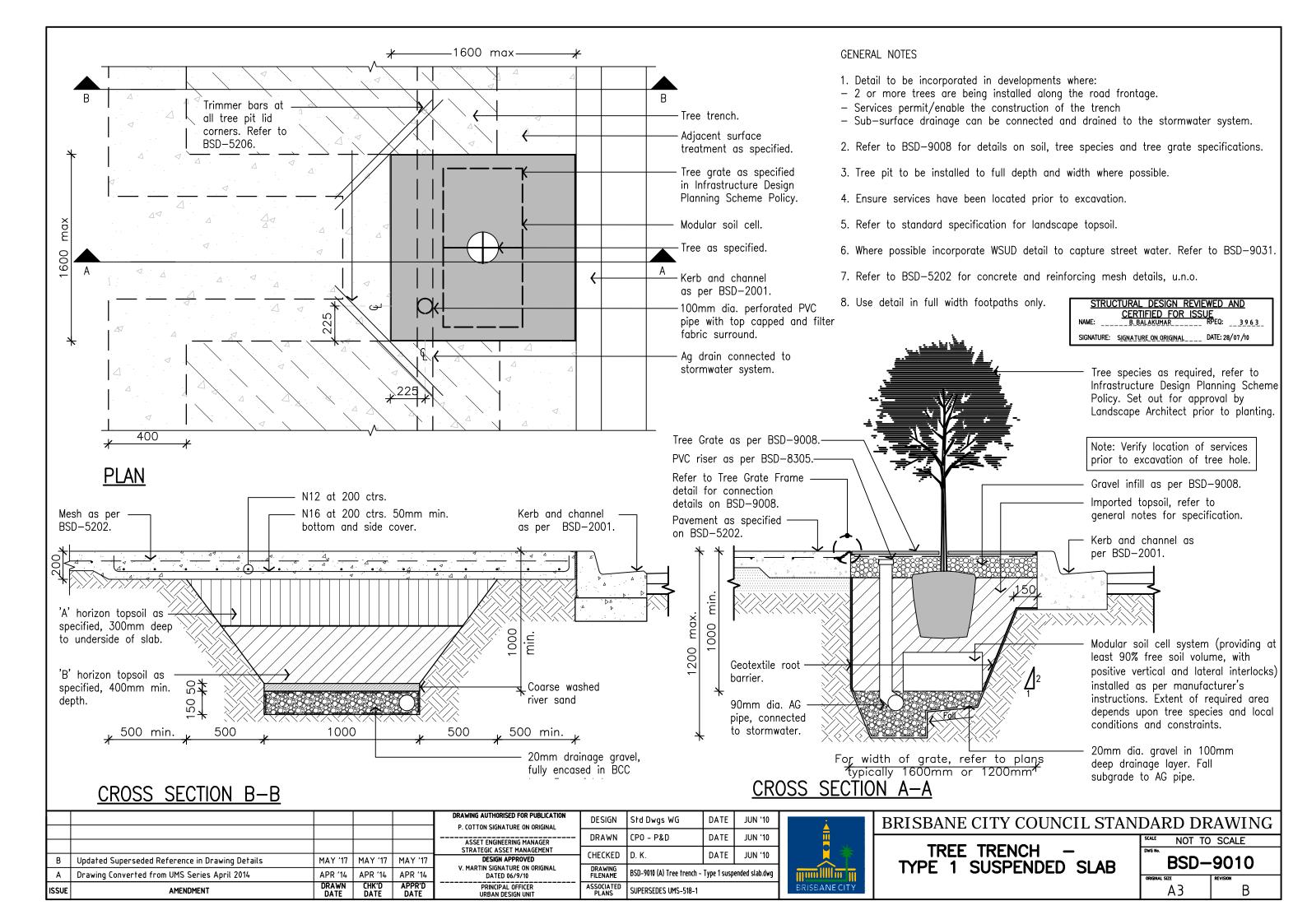
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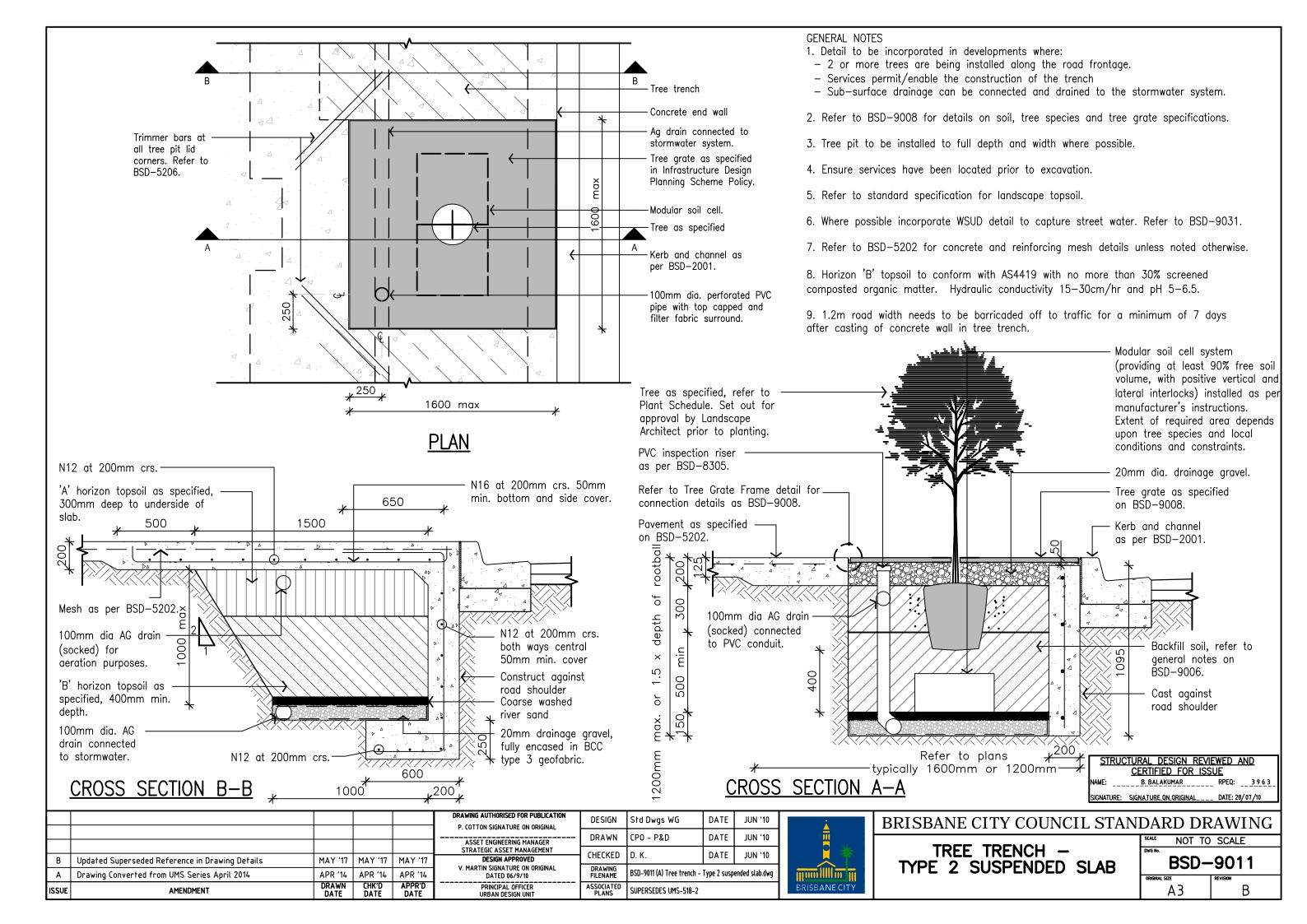


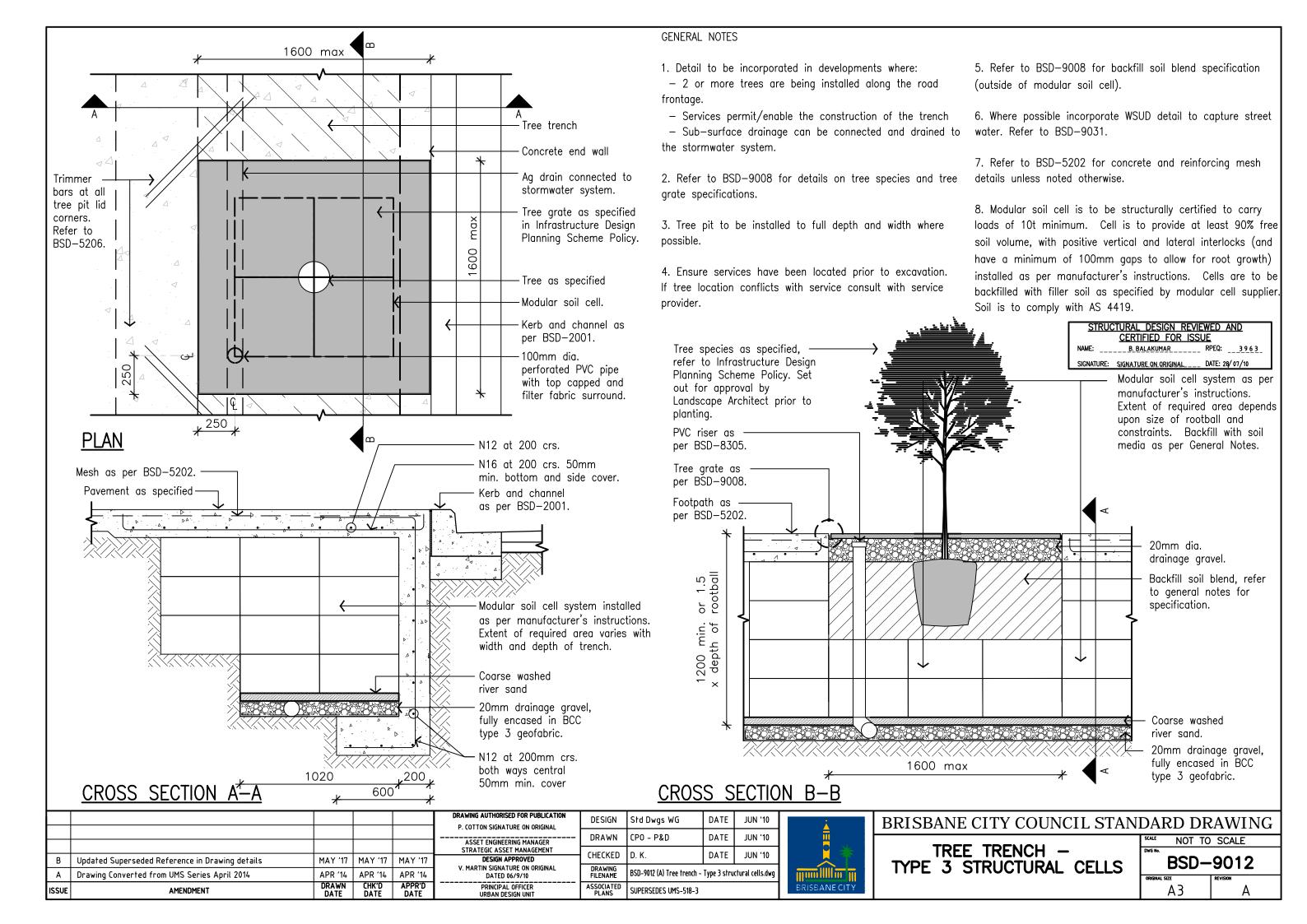
BRISBANE CITY COUNCIL STANDARD DRAWING

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BSD-	9009
ORIGINAL SIZE	REVISION
Α3	В







GENERAL NOTES & SPECIFICATIONS

- ENSURE PLANTING IS LOCATED AND LANDSCAPED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.
- MATERIAL CHOICES ARE TO BE DETERMINED ON THE GROUNDS OF SUSTAINABILITY, LOW MAINTENANCE, VANDAL RESISTANCE, PRODUCT AVAILABILITY AND SUITABILITY TO THE CLIMATIC CONDITIONS AND PRACTICALITY, WHERE POSSIBLE. MATERIALS ARE TO BE LOCALLY SOURCED.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ARRANGING THE DELIVERY INCLUDING OFF LOADING OF ALL TREE, PLANT AND TURF STOCK TO SITE DIRECTLY WITH THE SUPPLIER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE THE UNLOADING EQUIPMENT AS REQUIRED.
- THE CONTRACTOR SHALL CO-ORDINATE WITH THE PLANT SUPPLIERS FOR THE DELIVERY OF PLANT MATERIAL TO ENSURE THAT THE MINIMUM NUMBER OF PLANTS ARE LEFT IN THE ON-SITE STORAGE AREA AT ANY ONE TIME.
- STORAGE OF PLANTS AFTER HOURS SHALL BE WITHIN A SECURE COMPOUND ON-SITE. PLANT MATERIAL IS TO BE KEPT IN GOOD CONDITION DURING STORAGE WITH REGULAR WATERING AND MAINTENANCE.
- SHOULD THE CONTRACTOR, DURING THE CONTRACT PERIOD, OBSERVE OR BE AWARE OF SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF THE PLANT MATERIAL, THEN THE CONTRACTOR MUST ADVISE THE SUPERINTENDENT IMMEDIATELY.

SITE SOIL

- EXISTING SITE TOPSOIL AMELIROATED INSITU OR STOCKPILED FOR RE-USE AS GROWING MEDIUM FOR PLANTING BEDS, TREE PLANTING HOLES AND NEW TURFED AREAS. IF DIRECTED BY THE SUPERINTENDENT OR SPECIFIED ON DRAWINGS THAT SITE MATERIAL IS OF NO USE, THE CONTRACTOR SHALL DISPOSE OF THIS MATERIAL AT AN APPROVED DUMPING SITE.
- SITE TOPSOIL OR ORGANIC MATTER SHALL NOT BECOME CONTAMINATED WITH OTHER MATERIALS ON SITE.

SITE SOIL IMPROVER

WHERE EXISTING SITE TOPSOIL IS DETAILED TO INCORPORATE A SOIL IMPROVER, THE REQUIRED STANDARD FOR THE SOIL TO MEET IS AS4419-2003 "SOILS FOR LANDSCAPING AND GARDEN USE". THE CONTRACTOR IS TO PROVIDE A SOIL TEST OF THE EXISTING TOPSOIL TO BE RE-USED. BASED ON THE RESULTS OF THIS TEST, THE EXISTING SITE SOIL MAY REQUIRE IMPROVING TO ACHIEVE THE DESIRED STANDARD. IF USING ADDITIVES TO RAISE TOPSOIL TO THE REQUIRED STANDARD, ENSURE COMPLIANCE CERTIFICATE WITH THE RELEVANT TEST CRITERIA IS PROVIDED TO THE SUPERINTENDENT 14 DAYS PRIOR TO USE. THE CONTRACTOR SHALL ALSO PROVIDE A CERTIFICATE OF COMPLIANCE FOR THE FINAL IMPROVED SOIL MIX TO THE SUPERINTENDENT 7 DAYS PRIOR TO USE.

SITE PREPARATION

- SPRAYING/POISONING OF ALL PLANTING BED AREAS AND AREAS WHERE NEW TURF WILL BE LAID TO BE UNDERTAKEN A MINIMUM OF 14 DAYS PRIOR TO ANY SOFTSCAPE WORKS. ALL EXISTING GRASS AND WEEDS SHOULD BE SPRAYED WITH A HERBICIDE. USE ENVIRONMENTALLY ACCEPTABLE METHODS AS APPROVED BY THE SUPERINTENDENT, AT THE MANUFACTURER'S RECOMMENDED MAXIMUM RATE. SUBMIT PRODUCT INFORMATION PRIOR TO USE TO THE SUPERINTENDENT FOR APPROVAL. REMOVE ALL WEEDS, DEBRIS AND OTHER DELETERIOUS MATERIAL FROM THE AREA. REPEAT THE APPLICATION 7 DAYS PRIOR TO SOFTSCAPE WORKS TO ENSURE THAT ALL GRASS AND WEEDS ARE DEAD. PERSISTENT WEEDS MAY NEED TO BE TREATED WITH SELECTIVE HERBICIDES FOR BAHIA GRASS (PASPALUM NOTATUM) AND / OR WICK WIPED FOR EMERGENT GRASS WEEDS AT 100mm HEIGHT (ACCORDING TO MANUFACTURERS DIRECTIONS).
- PROFILE THE EXISTING SUB-GRADE TO ACHIEVE THE DESIRED F.S.L AND DRAINAGE FALLS.

- RIP AND/OR CULTIVATE ALL PLANTING BED AREAS AND AREAS WHERE NEW FERTILISER TURF WILL BE LAID. RIPPING OR CULTIVATING TO BE UNDERTAKEN TO A MINIMUM DEPTH OF 300mm UNLESS NOTED OTHERWISE.
- ALL UNDERGROUND SERVICES SHALL BE LOCATED AND CLEARLY MARKED PRIOR TO DECOMPACTION. ENSURE CAUTION WHEN CULTIVATING OVER SERVICE LINES, PIPES AND AROUND TREE ROOTS AND IF NECESSARY CULTIVATE USING HAND TOOLS. DO NOT CULTIVATE WITHIN 600mm OF PROPOSED OR EXISTING HARD PAVED AREAS AND STRUCTURES

IMPORTED GROWING MEDIA

- IMPORTED GROWING MEDIA IS TO BE USED WHERE SPECIFIED ON DETAILS OR SPECIFIED ON PLANS.
- IMPORTED GROWING MEDIA SHALL COMPLY WITH AUSTRALIAN STANDARD AS4419-2003 'SOILS FOR LANDSCAPING AND GARDEN USE'. SUPPLIER'S CERTIFICATION MUST BE SUPPLIED TO THE SUPERINTENDENT PRIOR TO DELIVERY TO SITE.
- ANY IMPORTED SOIL THAT DOES NOT MEET THE AUSTRALIAN STANDARDS AND/OR THE SUPPLIER'S CERTIFICATION WILL BE REMOVED FROM SITE AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- WHEN PLACING GROWING MEDIA TO GARDEN OR TURF AREAS ENSURE NO AIR POCKETS ARE IN THE BEDS THAT WILL ASSIST IN THE PROMOTION OF DISEASE. LIGHTLY COMPACT SOIL SO THAT THE SURFACE IS SMOOTH, FREE FROM HOLLOWS AND HAS EVEN GRADE FALLS FROM MOUNDS. THE GROWING MEDIA SHALL BE PLACED IN LAYERS NOT EXCEEDING 200mm DEPTH AND CONSOLIDATED TO NO MORE THAN 85% COMPACTION.
- FINISH THE SURFACE LEVEL OF SOIL TO ALLOW FOR 75mm DEPTH OF ORGANIC MULCH ENSURING F.S.L OF MULCH IS 25mm BELOW F.S.L OF PLANTING BED EDGE.
- THE GROWING MEDIA SHALL BE PLACED TO THE DEPTH AND LEVEL ACCORDING DRAWINGS AND DETAILS.

MOUNDING

- MOUNDS SHALL BE FORMED FROM IMPORTED FILL WITH TOPSOIL OVER TO DEPTHS AS REQUIRED. IMPORTED FILL MATERIAL WILL BE USED TO FORM MOUNDS WHERE THE EXISTING SITE SOIL IS INADEQUATE IN TERMS OF QUANTITY OR QUALITY. THE IMPORTED FILL SHOULD MEET CURRENT AUSTRALIAN STANDARD AS4419-2003 'SOILS FOR LANDSCAPING AND GARDEN USE'.
- PLACE CLEAN FILLING IN LAYERS APPROXIMATELY 150mm THICK COMPACTED TO 85% OF THE DRY DENSITY RATIO OF THE SURROUNDING SOIL AS DETERMINED BY AS 1289.5.4.1. MINIMISE SLUMPING AND FURTHER INTERNAL PACKING DOWN. CONSTRUCT CHANGES IN GRADE OVER A MINIMUM WIDTH OF 500mm TO SMOOTH, GRADUAL AND ROUNDED PROFILES. ALLOW FOR PLACEMENT OF TOPSOIL AND TURF OR MULCH WHERE APPLICABLE.
- SLOPES TO MOUNDS SHALL BE NO GREATER THAN 1:3 IN GARDEN AREAS AND 1:4 IN TURFED AREAS UNLESS OTHERWISE SHOWN ON PLAN. ALL INTERSECTIONS OF PLANES SHALL BE ROUNDED AND GRADUAL AND CURVES GENEROUS. ENSURE ALL MOUNDS HAVE A SMOOTH AND EVEN PROFILE (SUITABLE FOR MOWING PURPOSES).

MULCH

- USE MULCH THAT IS FREE OF DELETERIOUS AND EXTRANEOUS MATTER SUCH TURF SPECIES AS SOIL, WEEDS, STICKS AND ROCKS. MULCH TO COMPLY WITH AS4454-1999: COMPOST, SOIL CONDITIONERS AND MULCH.
- MULCH TO BE PLACED AROUND TREES IN GRASSED AREAS AND TO GENERAL PLANTING AREAS UNLESS OTHERWISE SHOWN ON PLANS.
- MULCH SHALL BE APPLIED SO THAT AFTER SETTLING, IT IS SMOOTH AND EVENLY GRADED BETWEEN DESIGN SURFACE LEVELS AND SLOPED TOWARDS THE BASE OF PLANT STEMS BUT LEAVING A 100mm DIAMETER CLEARANCE.
- ENSURE WHEN TRIMMING PLANTING BED SOIL PRIOR TO APPLICATION OF MULCH, THE SETDOWN AREA ADJACENT PAVEMENT EDGES SHALL BE 125mm ALLOWING FOR 100mm DEPTH SPECIFIED MULCH TYPE. ENSURE MULCH FINISHES 25mm BELOW SURROUNDING PAVEMENT FINISHES AS SHOWN IN DETAILS.
- TO SURROUNDS OF TREES PLANTED IN GRASSED AREAS, PROVIDE MULCH TO 1000mm DIAMETER.
- MULCH TYPE AS SPECIFIED ON DETAILED LANDSCAPE PLAN OR APPROVED BY SUPERINTENDENT.

- PLANTING: FERTILISER FOR PLANTS SHALL BE "AGRIFORM" PLANTING TABLETS 20: 4.3: 4.1 OR EQUIVALENT, TIGHTLY COMPRESSED, LONG LASTING, SLOW RELEASE FERTILISER TABLETS, AND SHALL BE PLACED AS PER MANUFACTURER'S RECOMMENDATIONS. NUMBER OF TABLETS PER PLANT SHALL BE AT THE RATE RECOMMENDED BY THE MANUFACTURER OF THE FERTILISER. FURNISH EVIDENCE OF THE MANUFACTURER'S RECOMMENDATIONS.
- TURFING: MIX THE FERTILISER THOROUGHLY INTO THE TOPSOIL BEFORE PLACING THE TURF. APPLY LAWN FERTILISER AT THE COMPLETION OF THE FIRST AND LAST MOWINGS, AND AT OTHER TIMES AS REQUIRED TO MAINTAIN HEALTHY GRASS COVER. FERTILISE BY BROADCASTING AN EVEN COVERAGE OF A MINIMUM OF 75 GRAMS PER SQUARE METRE OF A.C.F. GARDEN KING Q5 AT APPROVED SIMILAR COMPOSITION FERTILISER.

PLANTING CONDITIONS

- DO NOT PLANT IN UNSUITABLE WEATHER CONDITIONS SUCH AS EXTREME HEAT, COLD, WIND OR RAIN. IN OTHER THAN SANDY SOILS, SUSPEND EXCAVATION WHEN THE SOIL IS WET, OR DURING FROST PERIODS. PLANTS WILL NOT BE INSTALLED UNLESS PERMITTED BY SUPERINTENDENT DURING PREDICTED INCLEMENT WEATHER INCLUDING:
 - WHERE THE DAILY MINIMUM TEMPERATURE, AS RECORDED AT THE NEAREST OFFICIAL BUREAU OF METEOROLOGY REPORTING STATION, IS BELOW 4 DEGREES CELSIUS OR THE DAILY MAXIMUM IS ABOVE 30 DEGREES CELSIUS
 - WHERE RAINFALL EXCEEDS 5mm PER HOUR PRECIPITATION RATE.

PLANT SETOUT

- SET OUT PLANT MATERIAL IN POSITIONS AND QUANTITIES AS SHOWN ON PLANS AND IN ACCORDANCE WITH DETAILS PROVIDED OR AS DIRECTED OTHERWISE BY SUPERINTENDENT.

PLANTING

- PLANTING HOLES SHALL BE PREPARED NOT MORE THAN 24 HOURS IN ADVANCE OF PLANTING. ENSURE THAT PLANTING HOLES ARE FREE DRAINING FROM THE BASE SO THAT NO FREE WATER REMAINS AT THE BASE OF THE HOLE MORE THAN ONE HOUR AFTER THE APPLICATION OF A 50mm DEPTH OF WATER. IF FREE DRAINAGE DOES NOT OCCUR INFORM THE SUPERINTENDENT.
- WHERE ROOT GROWTH HAS BEEN MODERATELY RESTRICTED IN THE CONTAINER (ROOTBOUND STOCK WILL NOT BE ACCEPTED); THE OUTSIDE ROOTS SHALL BE LIGHTLY TEASED PRIOR TO PLANTING. CARE SHOULD BE TAKEN TO ENSURE THAT ROOTS ARE NOT EXPOSED TO DRYING INFLUENCES SUCH AS SUN OR WIND.
- AVOID LEAVING AIR POCKETS IN BACKFILL BY CAREFULLY FIRMING SOIL PROGRESSIVELY. WATER ALL PLANTS THOROUGHLY AFTER PLANTING, AND FOR THE DURATION OF THE ESTABLISHMENT / MAINTENANCE PERIOD, TO ENSURE THE ESTABLISHMENT OF EACH PLANT.
- REMOVE AND DISPOSE OF ALL IDENTIFICATION LABELS DELIVERED WITH PLANT MATERIAL, WITHIN 7 DAYS AFTER PLANTING HAS BEEN COMPLETED.

- 100% CYNODON DACTYLON CV GREENSLEES PARK, UNLESS NOTED OTHERWISE ON DETAILED LANDSCAPE PLAN OR APPROVED BY SUPERINTENDENT.
- DELIVER THE TURF WITHIN 24 HOURS OF CUTTING, AND LAY IT WITHIN 36 HOURS OF CUTTING. PREVENT IT FROM DRYING OUT BETWEEN CUTTING AND LAYING. TURF SHALL BE DELIVERED COVERED, STORED COVERED AND LIGHTLY WATERED EVERY 12 HOURS.

REFER TO BSD-9052. BSD-9053, BSD-9054 & BSD-9055 FOR ASSOCIATED STANDARD DRAWINGS

03/09/04 APR '14 APR '14 APR '14 Drawing Converted from UMS Series April 2014 APPR'D DRAWN ISSUE AMENDMENT

DRAWING AUTHORISED FOR PUBLICATION DESIGN Std Dwgs WG DATE OCT '13 PAUL COTTON SIGNATURE ON ORIGINAL DATED DRAWN CPO - P&D DATE OCT '13 MANAGER INFRASTRUCTURE MANAGEMENT R P F 0: 2546 DATE OCT '13 CHECKED UMD - E&P & IMB DESIGN APPROVED I AUREN TEMPI EMAN SIGNATURE ON ORIGINAL BSD-9051 (A) Planting - General notes - Sheet 1 of 2.dw DATED 31/08/04 FILENAME ASSOCIATED PLANS SUPERSEDES UMS-791 PRICIPAL PROGRAM OFFICER PARKS



BRISBANE CITY COUNCIL STANDARD DRAWING

PLANTING GENERAL NOTES SHEET 1 OF 2

AS SHOWN BSD-9051 Α3

TURF LAYING, ROLLING & PINNING

- ALL TURF SHALL BE LAID TO COMPLETE COVERAGE WITH EACH TURF SEGMENT PUSH BUTTED FIRMLY TO EACH OTHER. THE TURF SEGMENTS WILL NOT BE STRETCHED TO FIT.
- TURF SHALL NOT REMAIN IN A CUT AND STACKED OR ROLL FORM FOR MORE THAN 32 HOURS. ALL THE TURF DELIVERED EACH DAY SHALL BE INSTALLED ON THE SAME DAY.
- THE TURF SHALL BE LIGHTLY WATERED DURING THE INSTALLATION PROCESS WITH NO TURF ALLOWED TO LIE WITHOUT INITIAL WATER MORE THAN 30 MINUTES. LAID TURF WILL BE MAINTAINED IN A MOIST CONDITION DURING THE ENTIRE INSTALLATION PROCESS.
- ALL TURF SHALL BE LAID SO THAT THE FINISHED GRADE DOES NOT VARY MORE THAN + / 20MM FROM SPECIFIED LEVELS. THE TURF SHALL BE EVENLY GRADED BETWEEN ADJOINING SEGMENTS WITH NO VARIATION GREATER THAN + / 10MM.
- LAY THE TURF IN THE FOLLOWING MANNER:
 - IN STRETCHER PATTERN WITH THE JOINTS STAGGERED AND CLOSE BUTTED.
 - PARALLEL WITH THE LONG SIDES OF LEVEL AREAS, AND WITH CONTOURS ON SLOPES.
 - TO FINISH FLUSH, AFTER TAMPING, WITH ADJACENT FINISHED SURFACES OF GROUND, PAVING EDGING ETC.
 - ENSURE PRIOR TO LAYING TURF THAT ALL FALLS ACROSS SLOPES HAVE EVEN GRADE FALLS WITH NO HUMPS OR HOLLOWS.
 - THE TURF SHALL BE LIGHTLY ROLLED WITHIN 24 HOURS OF INSTALLATION TO ENSURE CLOSE CONTACT WITH THE GROWING MEDIUM AND MINIMISE AIR POCKET ROOT DESICCATION.
 - ON STEEP SLOPES (GREATER THAN 1:3) PIN THE TURF TO PREVENT DOWN SLOPE MOVEMENT. USE 300MM LONG 'U' SHAPED STEEL PINS AT 1.5 PINS PER SQUARE METRE.

STAKING & TIES

- USE HARDWOOD, STRAIGHT, FREE FROM KNOTS OR TWISTS, POINTED AT ONE END. DRIVE STAKES INTO THE GROUND FOR AT LEAST A THIRD OF THEIR LENGTH, AVOIDING DAMAGE TO THE ROOT SYSTEM. PLACE ONE STAKE ON THE WINDWARD SIDE OF THE TREE AND SECURE WITH A NON-ABRASIVE, NON-CUTTING MATERIAL LOOPED AROUND THE TREE IN A FIGURE 8 AND SECURED AT THE STAKE.
- STAKING OF RELEVANT TREES SHALL BE UNDERTAKEN AT THE TIME OF PLANTING. THE CONTRACTOR SHALL SUPPLY AND STAKE ALL TREES IN ACCORDANCE WITH THE DETAILS. ENSURE THAT STAKES DO NOT PENETRATE THE ROOT BALL OF THE TREE.
- PROVIDE NON-ABRASIVE, NON-CUTTING MATERIAL TIES FIXED SECURELY TO THE STAKES AS PER THE DETAILS PROVIDED.
 - FOR PLANTS >2.5m HIGH: THREE 50 X 50 X 2400mm STAKES PER PLANT.
 - FOR PLANTS 1 2.5m HIGH: TWO 50 X 50 X 1800mm STAKES PER PLANT
 - FOR PLANTS < 1m HIGH: ONE 38 X 38 X 1200mm STAKE PER PLANT.

WATERING DURING ESTABLISHMENT

- PLANTING: THOROUGHLY WATER THE PLANTS BEFORE PLANTING, IMMEDIATELY AFTER PLANTING, AND AS REQUIRED TO MAINTAIN GROWTH RATES FREE OF STRESS. ABIDE BY ALL WATER RESTRICTIONS IMPOSED BY BRISBANE CITY COUNCIL DURING CONSTRUCTION WORKS AND MAINTENANCE PERIOD.
- TURFING: WATER TO BE NON-POTABLE WATER FROM AN ALTERNATE WATER SUPPLY.WATER IMMEDIATELY AFTER LAYING UNTIL THE TOPSOIL IS MOISTENED TO ITS FULL DEPTH. CONTINUE WATERING TO MAINTAIN MOISTURE TO THIS DEPTH. KEEP THE GRASS IN A HEALTHY CONDITION. WATER TO BE NON POTABLE WATER FROM AN ALTERNATE WATER SUPPLY SUITABLE FOR HORTICULTURAL USE.

REFER TO BSD-9051, BSD-9052, BSD-9053, BSD-9054 & BSD-9055 FOR ASSOCIATED STANDARD DRAWINGS

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-791		
А	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWING FILENAME	BSD-9051 (A) Planting - Gene	eral notes -	Sheet 2 of 2.dwg
					R.P.E.Q: 2546 DESIGN APPROVED	CHECKED	UMD - E&P & IMB	DATE	OCT '13
					03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT	DRAWN	CPO - P&D	DATE	OCT '13
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED	DESIGN	Std Dwgs WG	DATE	OCT '13



BRISBANE CITY COUNCIL STANDARD DRAWING

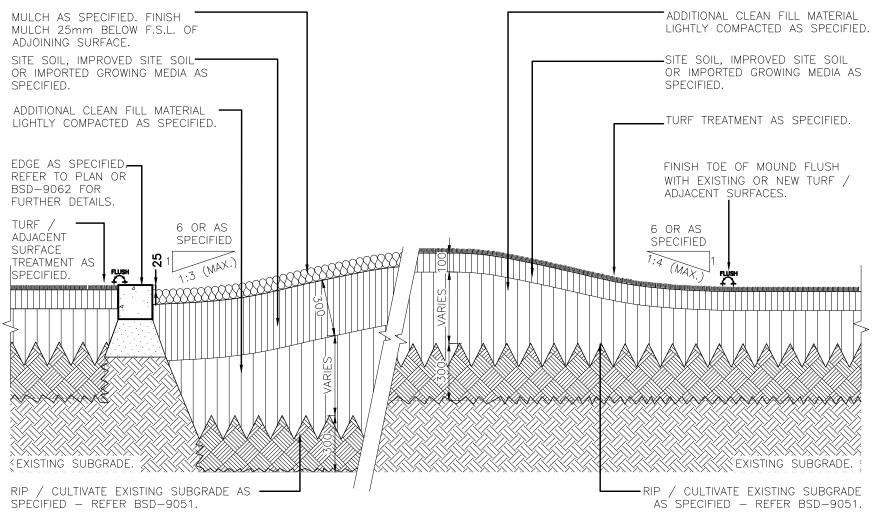
PLANTING GENERAL NOTES SHEET 2 OF 2

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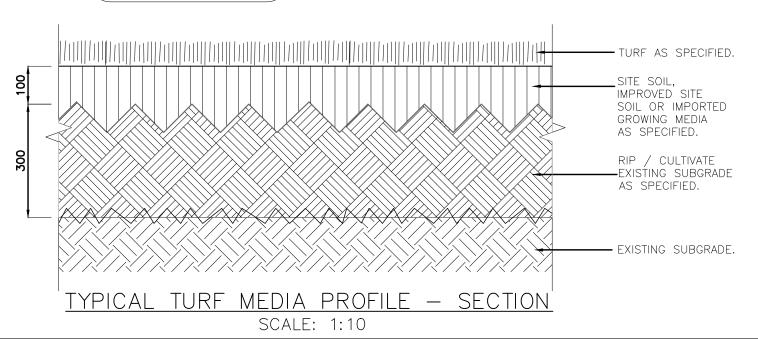
NUIES: · WHERE THE MOUND IS WITHIN THE CROWN SPREAD OF EXISTING TREES, THE GRADING OF THE MOUND IS TO BE ADJUSTED ON SITE TO AVOID COMPACTION OF TREE ROOTS. MOUNDS SHALL BE FORMED FROM IMPORTED FILL WITH TOPSOIL OVER TO DEPTHS AS REQUIRED. IMPORTED FILL MATERIAL WILL BE USED TO FORM MOUNDS WHERE THE EXISTING SITE SOIL IS INADEQUATE IN TERMS OF QUANTITY OR QUALITY. THE IMPORTED FILL SHOULD MEET CURRENT AUSTRALIAN STANDARD AS4419-2003 'SOILS FOR LANDSCAPING AND GARDEN USE' 1:3 IN GARDEN AREAS AND 1:4 IN TURFED

- SLOPES TO MOUNDS SHALL BE NO GREATER THAN AREAS UNLESS OTHERWISE SHOWN ON PLAN. ALL INTERSECTIONS OF PLANES SHALL BE ROUNDED AND GRADUAL AND CURVES GENEROUS. ENSURE ALL MOUNDS HAVE A SMOOTH AND EVEN PROFILE (SUITABLE FOR MOWING PURPOSES).
- PLACE CLEAN FILLING IN LAYERS APPROXIMATELY 150mm THICK COMPACTED TO 85% OF THE DRY DENSITY RATIO OF THE SURROUNDING SOIL AS DETERMINED BY AS 1289.5.4.1. MINIMISE SLUMPING AND FURTHER INTERNAL PACKING DOWN. CONSTRUCT CHANGES IN GRADE OVER A MINIMUM WIDTH OF 500mm TO SMOOTH, GRADUAL AND ROUNDED PROFILES. ALLOW FOR PLACEMENT OF TOPSOIL AND TURF OR MULCH WHERE APPLICABLE. REFER TO PLANS FOR LEVELS OF TOP OF MOUND (IF APPLICABLE). MOUND SOIL TO CENTRE OF GARDEN BED.

REFER TO BSD-9051 (SHEETS 1 & 2) FOR ASSOCIATED SPECIFICATION NOTES



TYPICAL MOUNDED PLANTING BED & TURF AREAS - SECTION SCALE: 1:20



MULCH AS SPECIFIED. SITE SOIL, IMPROVED SITE SOIL OR IMPORTED GROWING MEDIA AS SPECIFIED. RIP / CULTIVATE EXISTING SUBGRADE AS SPECIFIED. - EXISTING SUBGRADE.

TYPICAL PLANTING MEDIA PROFILE - SECTION SCALE: 1:10

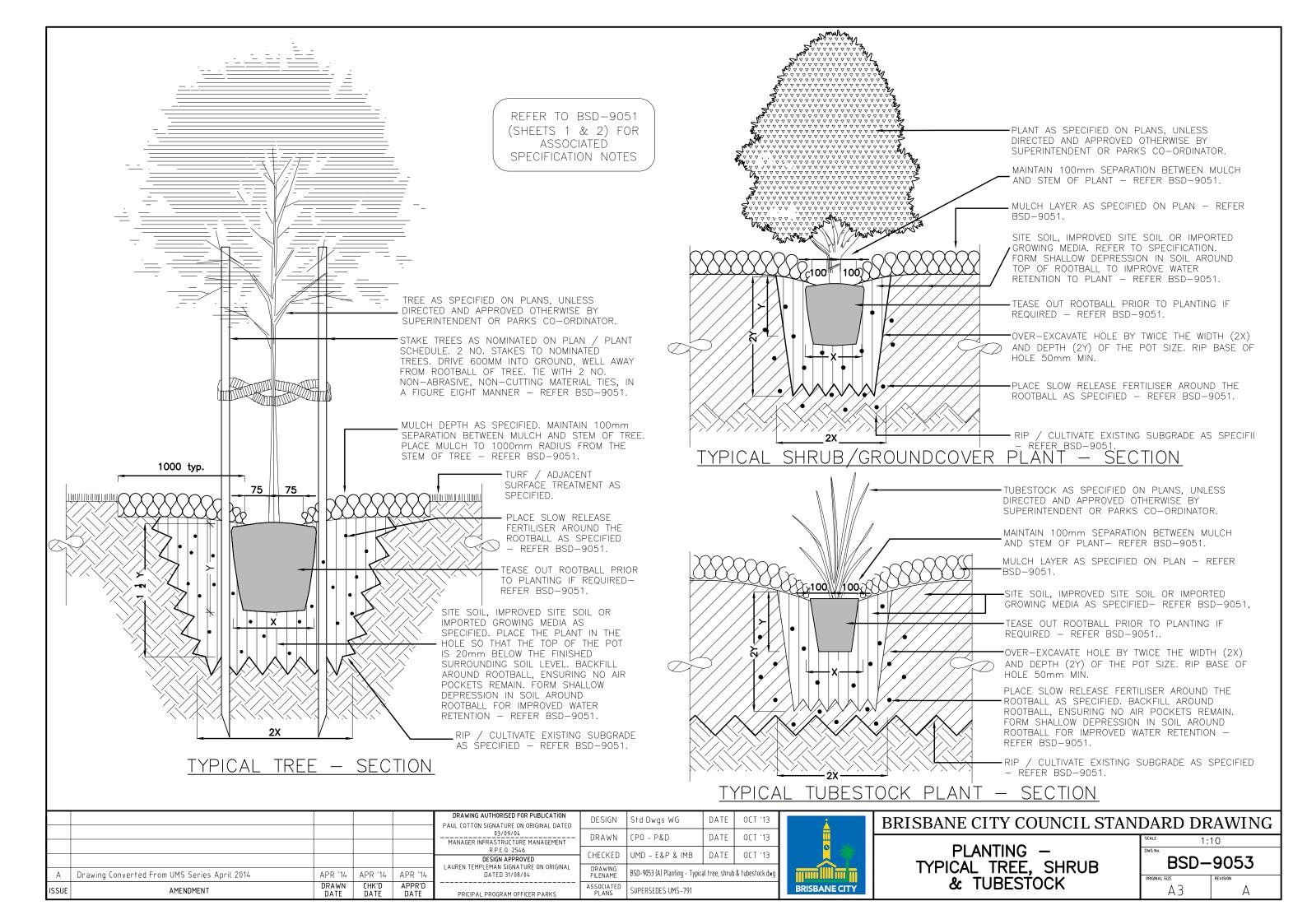
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED	DESIGN	Std Dwgs WG	DATE	OCT '13	
					03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT	DRAWN	CPO - P&D	DATE	OCT '13	
					R.P.E.Q: 2546 DESIGN APPROVED	CHECKED	UMD - E&P & IMB	DATE	OCT '13	1
					LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL	8841.005				-
А	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	DATED 31/08/04	DRAWING FILENAME	BSD-9052 (A) Planting - Planting media profiles (turf and gard		rf and garden).dwg	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-792			

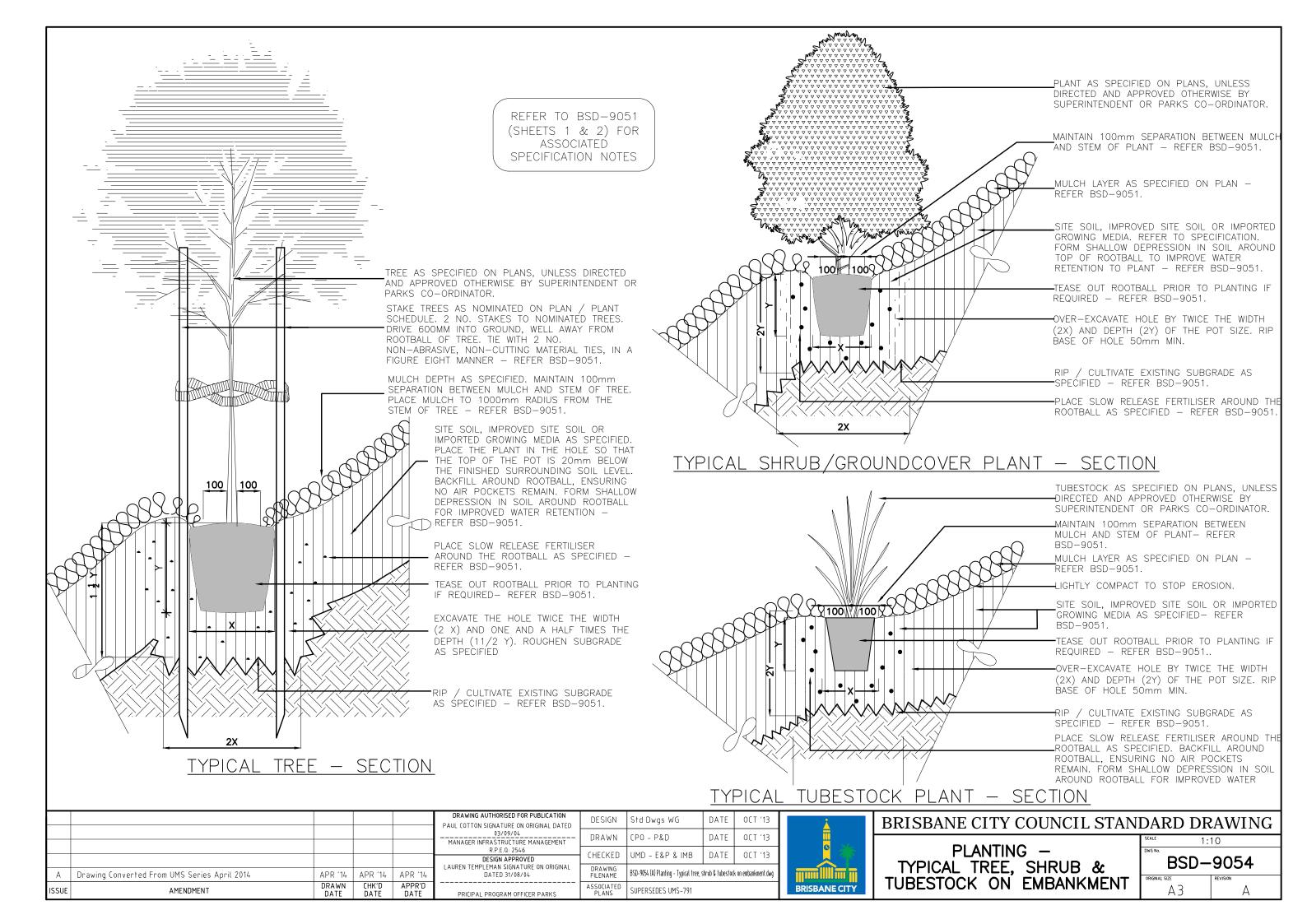


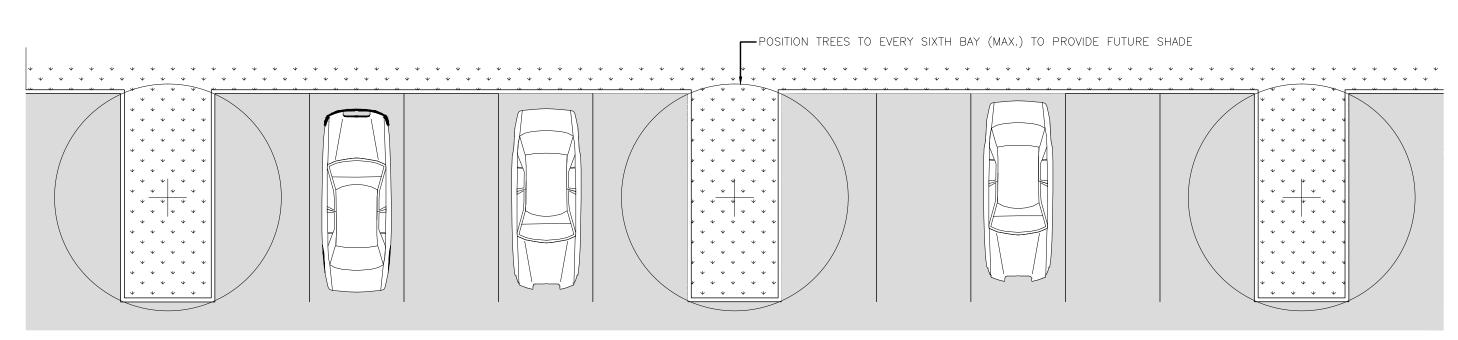
BRISBANE CITY COUNCIL STANDARD DRAWING

PLANTING -PLANTING MEDIA PROFILES (TURF & GARDEN)

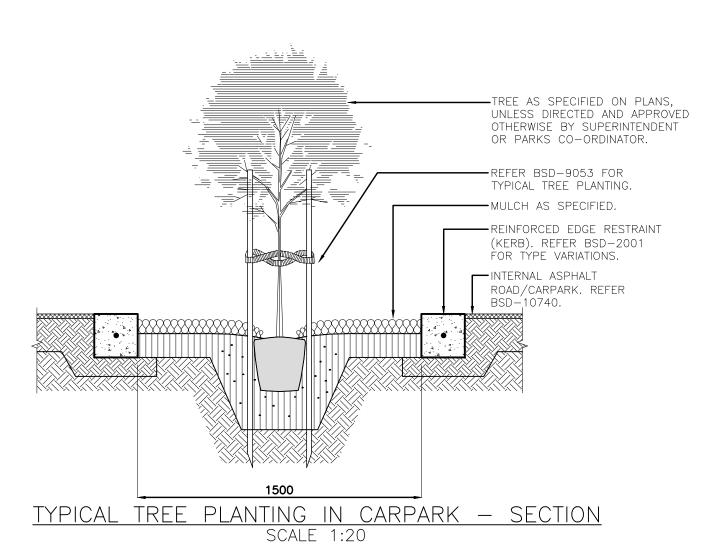
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TYPICAL CARPARK PLANTING LAYOUT — PLAN SCALE 1:100



REFER TO BSD-9051 (SHEETS 1 & 2) FOR ASSOCIATED SPECIFICATION NOTES

A ISSUE	Drawing Converted From UMS Series April 2014 AMENDMENT	APR '14 DRAWN DATE	APR '14 CHK'D DATE	APR '14 APPR'D DATE	DATED 31/08/04 PRICIPAL PROGRAM OFFICER PARKS	FILENAME ASSOCIATED PLANS	BSD-9055 (A) Planting - C SUPERSEDES UMS-793	arparks.dwo]
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL	DDAWING			
					03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q: 2546	CHECKED	UMD - E&P & IMB	DATE	OCT '13
						DRAWN	CPO - P&D	DATE	OCT '13
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED	DESIGN	Std Dwgs WG	DATE	OCT '13



BRISBANE CITY COUNCIL STANDARD DRAWING

PLANTING - CARPARKS

scale AS	SHOWN								
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GENERAL NOTES & SPECIFICATIONS

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 MAINTENANCE, VANDAL RESISTANCE, PRODUCT AVAILABILITY AND SUITABILITY TO THE CLIMATIC
 CONDITIONS. WHERE POSSIBLE, MATERIALS ARE TO BE SOURCED LOCALLY.
- ENSURE EDGING IS CLEANED OF CONCRETE SLURRY OR SPRAY WHEN INSTALLED TO PREVENT STAINING OR DAMAGE TO APPLIED FINISHES.
- ENSURE MOWN HEIGHT OF GRASS (TURF) AREAS FINISHES FLUSH WITH EDGING.
- ENSURE GARDEN AREAS (MULCH) FINISH 25mm BELOW ADJACENT F.S.L'S OF PATHS AND PAVEMENT AREAS, AND FLUSH WITH TIMBER OR CONCRETE GARDEN EDGING.
- COLOUR SELECTION IN ACCORDANCE WITH STANDARD BCC CORPORATE COLOUR PALETTE (& AS 2700 EQUILIVALENT). IF NO COLOUR SPECIFIED, BOLLARD AND MARKER TO BE INSTALLED AS MANUFACTURED.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

FIXTURES/FITTINGS & METAL WORK NOTES

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 4100 & AS/NZS 1554.
- ALL METAL FINISHES TO BE IN ACCORDANCE WITH AS 4506.
- ALL FIXTURES/FITTINGS UNLESS SPECIFIED ARE TO BE HOT DIPPED GALVANISED UNLESS IN VICINITY OF SALTWATER/SPRAY, ENSURE ALL FASTENERS SHALL BE STAINLESS STEEL. PLASTIC SEPARATORS SHALL BE PROVIDED TO AVOID CONTACT BETWEEN DISSIMILAR MATERIALS. STAINLESS STEEL GRADE 316 TO BE USED. WHERE POSSIBLE ALL FIXINGS TO BE TAMPER/VANDAL PROOF TO MINIMISE DAMAGE OR THEFT.

CONCRETE WORK NOTES

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
- AT A MINIMUM ALL CONCRETE TO BE GRADE N32. CONCRETE SHALL BE NORMAL CLASS
 CONCRETE UNLESS DIRECTED OTHERWISE. N32 SHALL MEAN NORMAL CLASS CONCRETE WITH A
 28 DAY CHARACTERISTIC STRENGTH OF 32MPa. CONCRETE MIX DESIGN SHALL BE SUBMITTED
 TO THE SITE SUPERINTENDENT FOR APPROVAL FIVE (5) DAYS PRIOR TO ORDERING.
- ALL CONCRETE FOR HAUNCHES UNDER PAVERS TO BE GRADE N25.
- INSTALL CONTRACTION JOINTS AT 4m INTERVALS BY FORMING GROOVES 40mm DEEP BY 6mm WIDE TO ALL EXPOSED SURFACES NORMAL TO THE ALIGNMENT OF THE KERB.
- ALL CEMENT TO BE TYPE GP OR GB TO AS 3972 UNLESS SPECIFIED OTHERWISE.
- NORMAL AGGREGATE SIZE TO BE 20mm, SLUMP TO BE NOT GREATER THAN 80mm.

TIMBER WORK NOTES

- TIMBER SHOULD BE SOURCED FROM LEGAL AND SUSTAINABLE SOURCES. TIMBERS ARE CONSIDERED ACCEPTABLE WHERE THERE IS A HIGH DEGREE OF CERTAINTY THAT THEY ARE FROM FORESTS, EITHER NATIVE OR PLANTATION, THAT ARE LEGALLY HARVESTED AND SUSTAINABLY MANAGED. THE CONTRACTOR IS TO SUBMIT EVIDENCE THAT THE TIMBER HAS BEEN OBTAINED FROM A LEGAL AND SUSTAINABLE SOURCE.
- ALL TIMBER TO BE ACQ PRESSURE TREATED OR TANALITH E (COPPER AZOL) TO AS1608 TREATED ROUGH SAWN APPEARANCE GRADE HARDWOOD OF ONE SPECIES.
- ALL EXPOSED EDGES TO RECEIVE MIN. 5mm WIDE ARRIS.
- PRIOR TO INSTALLATION, ALL CUTS, EDGES, JOINTS TO RECEIVE LIBERAL COATINGS WITH AN APPROVED TIMBER PRESERVATIVE.
- ALL TIMBER IN CONTACT WITH GROUND TO BE PRESERVATIVE TREATED TO HAZARD CLASS H5
 TO AS 1604 AND HAVE A DURABILITY CLASS 1 OR 2 TO AS 5604.
- ALL TIMBER TO BE FREE OF KNOTS, SPLINTERS, CRACKS OR ANY MAJOR DEFECT.
- TIMBER PRESERVATIVES WHERE NO FINISH SPECIFIED, ALL TIMBER TO RECEIVE 3 No COATS
 OF CLEAR APPROVED TIMBER PRESERVATIVE SUCH AS COPPER NAPTHENATE OIL (FOR ABOVE
 GROUND USE) AND COPPER NAPTHENATE EMULSION (FOR BELOW GROUND USE) COAT
 ENTIRE BOLLARD PRIOR TO PLACING.
- COLOUR SELECTION WHERE APPLICABLE IN ACCORDANCE WITH STANDARD CORPORATE COLOUR PALETTE. COAT ENTIRE BOLLARD PRIOR TO PLACING.
- POSITION STAKES ON TIMBER EDGING AT CLOSER CENTRES WHERE REQUIRED.
- FIX EDGE WITH 2 (MIN.) NAILS PER STAKE.
 TO FORM CURVES SAW CUT RELIEF TO EDGE TO PROMOTE EASE OF BENDING. STAKE AT CLOSER CENTRES WHERE REQUIRED.

RECYCLED PLASTIC NOTES

- SECTIONS TO BE FORMED FROM A SINGLE, CONTINUOUSLY EXTRUDED PIECE.
- MATERIAL TO BE UV STABILISED.
- POROSITY TO A MAXIMUM OF 15% OF CROSS SECTION.
- MAXIMUM VOID LENGTH 10% OF LARGEST CROSS SECTION.
- SURFACE FINISH TO BE SMOOTH AND FREE OF ANY MAJOR VOIDS OR VISIBLE DEFECTS.
- SIZE IS INDICATIVE VARIANCE NOT TO EXCEED APPROXIMATELY 1.5%.
- COLOUR TO BE CHOSEN FROM AVAILABLE SUPPLIER COLOURS, TYPICALLY GREEN, BLACK, GREY OR BLUE.
- MATERIAL TO HAVE FLAMMABILITY TESTING TO AS ISO TO AS/ISO 9239 AND/OR FIRE HAZARD RATING TO AS/NZS 1530.
- DEMONSTRATED CHEMICAL RESISTANCE.

REFER TO BSD-9061 (SHEETS 2 & 3) FOR ASSOCIATED DETAILS

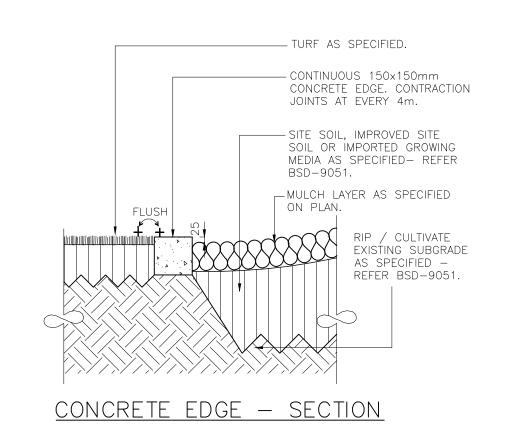
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED	DESIGN	Std Dwgs WG	DATE	OCT '13
					03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT	DRAWN	CPO - P&D	DATE	OCT '13
	Dec 1st Tills Associated	EED /1/	11.11. 14.6	11.11. (47	R.P.E.Q: 2546 DESIGN APPROVED	CHECKED	UMD - E&P & IMB	DATE	OCT '13
В	Drawing Title Amended	FEB '16	JUL '16	JUL '16	LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL	DRAWING			
Α	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	DATED 31/08/04	FILENAME	BSD-9061 (A) Edging – Gener	ral notes - S	heet 1 of 3.dwg
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-794		



BRISBANE CITY COUNCIL STANDARD DRAWING

EDGING GENERAL NOTES SHEET 1 OF 3

	SCALE AS S	HOWN							
ı	BWG No.								
	BSD-9061								
	ORIGINAL SIZE	REVISION							
	Α3	В							

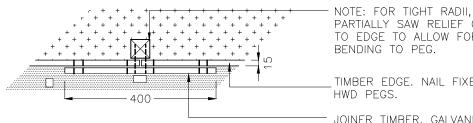


ADJACENT SURFACE TREATMENT AS SPECIFIED. 230x115x50mm PAVER SOLDIER COURSE SET ON A CONCRETE HAUNCH WHERE SPECIFIED. EXISTING OR NEW PAVERS TO MATCH EXISTING LAYOUT AND TYPE. MAKE GOOD ANY AREAS OF PAVING DAMAGED DURING CONSTRUCTION. 50mm BEDDING SAND LAYER TO ACHIEVE F.S.L.'s. -100mm COMPACTED SUBBASE MATERIAL CBR 45 QUALITY COMPACTED TO 95% MOD. M.D.D.

SITE SOIL, IMPROVED SITE SOIL OR IMPORTED GROWING 150mm DEEP MEDIA AS SPECIFIED- REFER SPADED EDGE. BSD-9051. SEE NOTE -RIP / CULTIVATE EXISTING SUBGRADE AS SPECIFIED -TURF AND TOPSOIL -REFER BSD-9051. AS SPECIFIED. -MULCH LAYER AS SPECIFIED. EXISTING SUBGRADE AS SPECIFIED. NOTE: CUT AND REMOVE SOIL TO CREATE PROFILE SHOWN. GRADE OF ADJACENT GARDEN BED NOT TO EXCEED 1 IN 4 UNLESS STATED ELSEWHERE.

PAVER GARDEN EDGE - SECTION

<u>SPADE CUT GARDEN EDGE - SECTION</u>



PLAN VIEW

PARTIALLY SAW RELIEF CUT TO EDGE TO ALLOW FOR EASIER

TIMBER EDGE. NAIL FIXED TO

JOINER TIMBER. GALVANISED NAIL FIXED TO EDGE TIMBER.

LANDSCAPE TREATMENT AS SPECIFIED. FINISH TURF FLUSH. FINISH MULCH 25mm BELOW ADJACENT SURFACE LEVEL. ACQ OR TANALITH E TREATED PINE 100x15mm TIMBER EDGE. NAIL FIXED TO PEGS. AS SPECIFIED. 15x75mm JOINER TIMBER. GALVANISED NAIL FIXED TO TIMBER. HWD 50x50x350mm PEGS. SECTION VIEW

- ADJACENT SURFACE TREATMENT

TIMBER GARDEN EDGE - PLAN & SECTION

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-794		
Α	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWING FILENAME	BSD-9061 (A) Edging - Edgin	g options -	Sheet 2 of 3.dwg
В	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED		UMC - E&P & IMB	DATE	OCT '13
					MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q: 2546	DRAWN	CPO - P&D	DATE	OCT '13
					PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04				
					DRAWING AUTHORISED FOR PUBLICATION	DESIGN	Std Dwgs WG	DATE	OCT '13



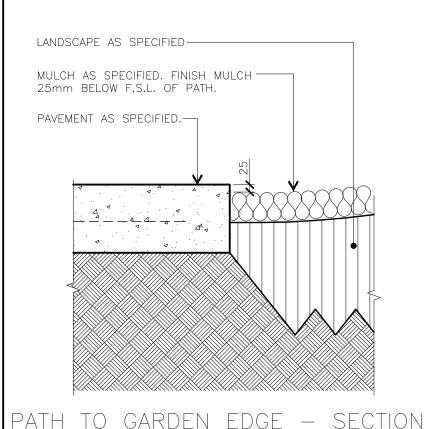
ASSOCIATED SPECIFICATIONS.

BRISBANE CITY COUNCIL STAN	DARD DRAWING
EDOULO.	1:10
EDGING EDGING OPTIONS	BSD-9061

SHEET 2 OF 3

SCALE 1	:10						
BSD-9061							
ORIGINAL SIZE	REVISION						
A 3	В						

REFER TO BSD-9061 (SHEETS 1) FOR



LANDSCAPE AS SPECIFIED.

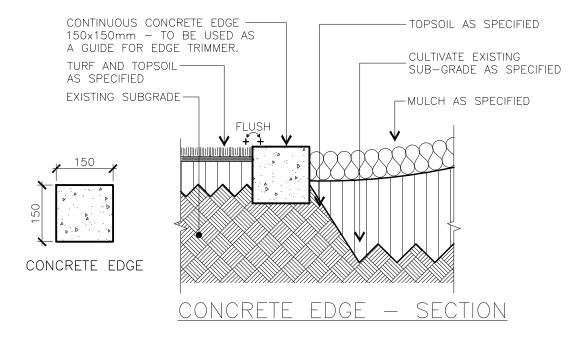
230x115x50mm PAVER SOLDIER
COURSE SET ON A CONCRETE
HAUNCH WHERE SPECIFIED.

EXISTING PAVERS OR NEW PAVERS TO
MATCH EXISTING LAYOUT AND TYPE.
MAKE GOOD ANY AREAS OF PAVING
DAMAGED DURING CONSTRUCTION.

50mm BEDDING SAND LAYER
TO ACHIEVE F.S.L.'s.
100mm COMPACTED SUBBASE
MATERIAL CBR 45 QUALITY
COMPACTED TO 95% MOD. M.D.D.

PAVER GARDEN EDGE - SECTION

GARDEN BED AS SPECIFIED. FINISH MULCH FLUSH WITH TIMBER EDGE. 15x75mm JOINER TIMBER. GALVANISED NAIL FIXED TO TIMBER. 100x15mm TIMBER EDGE. NAIL FIXED TO STAKES. 350x50x50mm STAKES AT. 1750mm CENTRES MAX. TURF AS SPECIFIED. TIMBER EDGE — SECTION



GENERAL NOTES

ENSURE MOWN HEIGHT OF GRASS (TURF) AREAS FINISHES FLUSH WITH EDGING ..

ENSURE GARDEN AREAS (MULCH) FINISH 25mm BELOW ADJACENT F.S.L'S OF PATHS AND PAVEMENT AREAS, AND FLUSH WITH TIMBER OR CONCRETE GARDEN EDGING.

ENSURE EDGING IS LOCATED AND LANDSCAPED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN, AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.

ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.

CONCRETE WORKS

ALL MACHINE PLACED (EXTRUDED) CONCRETE TO BE GRADE S32. INSTALL CONTRACTION JOINTS AT 4m INTERVALS BY FORMING GROOVES 40mm DEEP BY 6mm WIDE TO ALL EXPOSED SURFACES NORMAL TO THE ALIGNMENT OF THE KERB.

ALL CONCRETE FOR HAUNCHES UNDER PAVERS TO BE GRADE N25.

ALL PATHS/PAVEMENT AREAS TO HAVE 1:50 MINIMUM CROSS-FALL.

PATHS & PAVEMENTS TO COMPLY WITH AUSTRALIAN STANDARDS AND COUNCIL REQUIREMENTS FOR ACCESS & MOBILITY AS 1428.

POSITION STAKES ON TIMBER EDGING AT CLOSER CENTRES WHERE REQUIRED.

TIMBER NOTES

ALL TIMBER TO BE ACQ TREATED ROUGH SAWN APPEARANCE GRADE HARDWOOD OF A SINGLE SPECIES.

ALL TIMBER IN CONTACT WITH GROUND TO BE PRESERVATIVE TREATED TO HAZARD CLASS H5 TO AS 1604 AND HAVE A DURABILITY CLASS 1 OR 2 TO AS 5604.

ALL TIMBER TO BE FREE OF KNOTS, SPLINTERS, CRACKS OR ANY MAJOR DEFECT.

LOCATE TIMBER EDGE AS NOTED ON PLAN.

FIX EDGE WITH 2 (MIN.) NAILS PER STAKE.

TO FORM CURVES SAW CUT RELIEF TO EDGE TO PROMOTE EASE OF BENDING. STAKE AT CLOSER CENTRES WHERE REQUIRED.

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					l
В	Drawing Title Amended	FEB '16	JUL '16	JUL '16	
Α	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	ľ
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	

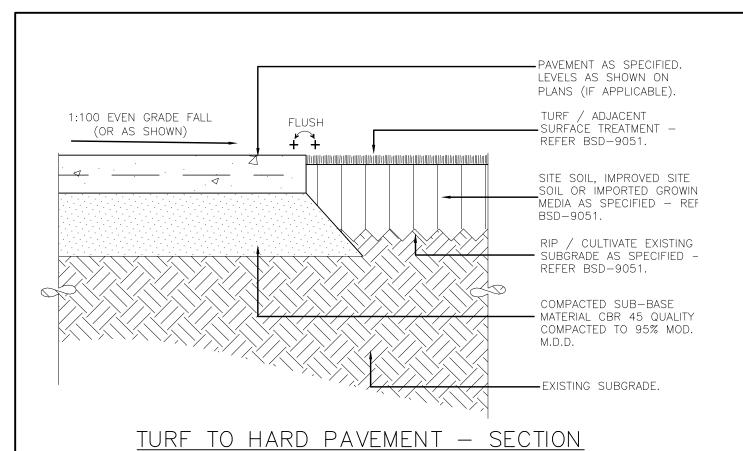
DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED	DESIGN	Std Dwgs WG	DATE	OCT '13	
03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT	DRAWN	CPO - P&D	DATE	OCT '13	
R.P.E.Q: 2546	CHECKED	UMD - F&P & IMB	DATE	0CT '13	
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LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWING FILENAME	BSD-9061 (A) Edging - Edging options - Sheet 3 of 3.dwg			
PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-794			

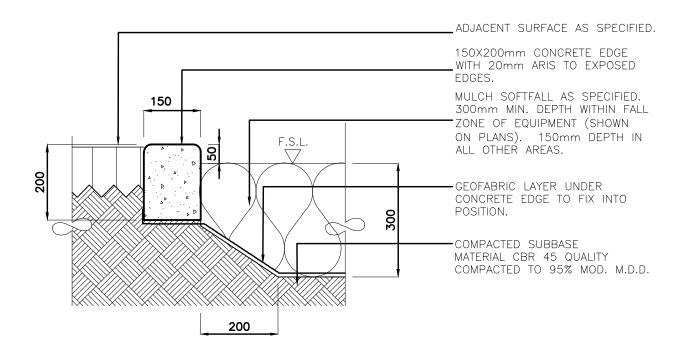


BRISBANE CITY COUNCIL STANDARD DRAWING

EDGING OPTIONS SHEET 3 OF 3

1,	DINO DI	71 V V 11 V G		
	SCALE 1:	10		
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	BSD-9061			
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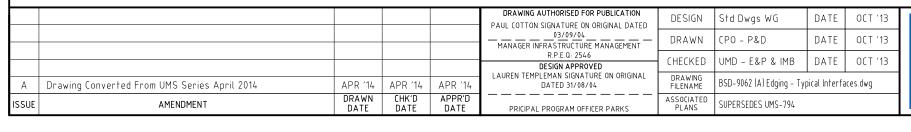


PLAYGROUND MULCH SOFTFALL TO ADJACENT SURFACE TREATMENT — SECTION

PAVEMENT AS SPECIFIED. ·LEVELS AS SHOWN ON PLANS (IF APPLICABLE). MULCH / PLANTING AREAS AS SPECIFIED. ENSURE SET DOWN 1:100 EVEN GRADE FALL TOLERANCE ADJACENT HARD SURFACES OF 125mm, (OR AS SHOWN) ALLOWING FOR 100mm OF MULCH LAYER & 25mm SET DOWN TO BACK OF EDGE. SITE SOIL, IMPROVED SITE SOIL OR IMPORTED GROWING MEDIA AS SPECIFIED - REFER BSD-9051. COMPACTED SUB-BASE MATERIAL CBR 45 QUALITY COMPACTED TO 95% MOD. M.D.D. -EXISTING SUBGRADE.

GARDEN TO HARD PAVEMENT - SECTION

REFER TO BSD-9061 (SHEET 1) FOR ASSOCIATED SPECIFICATION





BRISBANE CITY COUNCIL STANDARD DRAWING

EDGING TYPICAL INTERFACES

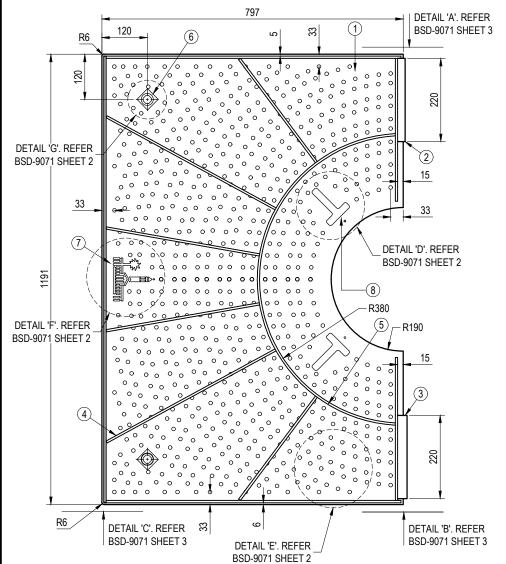
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SCALE 1:	10
DWG No.	
BSD-	9062
ORIGINAL SIZE	REVISION
Α3	А

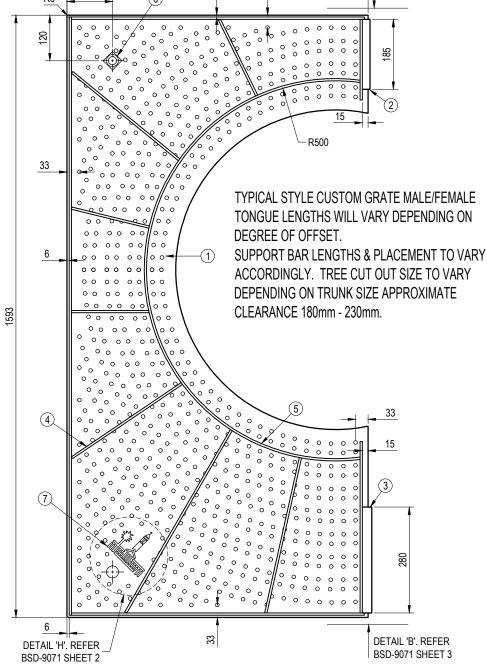
	PARTS LIST				
NO	TITLE	MATERIAL	QTY		
1	GRATE TOP PLATE	5mm STEEL	1		
2	FEMALE TONGUE	20 x 6 FLAT	1		
3	MALE TONGUE	25 x 6 FLAT	1		
4	SUPPORT BARS	20 x 6 FLAT	11		
5	ROLLED RING	20 x 6 FLAT	1		
6	CAM LOCK PLATE	3mm STEEL	2		
7	COUNCIL LOGO	114 x 107 HIGH	1		
8	TREE SPEAR SLOT	LASER CUT	2		

	PARTS LIST				
NO	TITLE	MATERIAL	QTY		
1	GRATE TOP PLATE	5mm STEEL	1		
2	FEMALE TONGUE	20 x 6 FLAT	1		
3	MALE TONGUE	25 x 6 FLAT	1		
4	SUPPORT BARS	20 x 6 FLAT	12		
5	ROLLED RING	20 x 6 FLAT	1		
6	CAM LOCK PLATE	3mm STEEL	2		
7	COUNCIL LOGO	114 x 107 HIGH	1		

PARTS LIST					
NO	TITLE	MATERIAL	QTY		
1	GRATE TOP PLATE	5mm STEEL	1		
2	FEMALE TONGUE	20 x 6 FLAT	1		
3	MALE TONGUE	25 x 6 FLAT	1		
4	SUPPORT BARS	20 x 6 FLAT	12		
5	ROLLED RING	20 x 6 FLAT	1		
6	CAM LOCK PLATE	3mm STEEL	2		
7	COUNCIL LOGO	114 x 107 HIGH	1		
8	TREE SPEAR SLOT	LASER CUT	2		

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BETAIL 'B'. REFER BSD-9071 SHEET 3

PLAN OF HALF GRATE - UNDERSIDE VIEW

1200 x 1600

GENERAL NOTES

 GRATE ASSUMED TO NOT HAVE NOMINATED LOAD CLASSIFICATION AS PER AS3996. CARE TO BE TAKEN TO MINIMISE VEHICLE TRAFFIC LOADING. WHERE GRATE IS TO BE SUBJECTED TO VEHICLE LOADING, INSTALL CLASS 'C' LOAD RATED GRATE (WITH SURFACE PATTERN AS SHOWN) AND FRAME AS DESIGNED AND REVIEWED BY A SUITABLY QUALIFIED RPEQ.

CUSTOM 1600 x 1600 PLAN OF HALF GRATE - UNDERSIDE VIEW

	General Notes Added, Cross-ref. on Detail Updated, Item 7 Renamed to 'Council Logo'	JAN '19	APR '19	APR '19	I. CONDRIC SIGNATURE (ASSET ENGINEER
В	Drawing Title Amended	FEB '16	JUL '16	JUL '16	STRATEGIC ASSET
Α	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNA 17/10/
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL URBAN DES

	DRAWING AUTHORISED FOR PUBLICATION 1. CONDRIC SIGNATURE ON ORIGINAL 06/2012	DESIGN	Std Dwgs WG	DATE	NOV '10	
_	ASSET ENGINEERING MANAGER	DRAWN	CPO - P&D	DATE	NOV '10	
	STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	CHECKED	D. M.	DATE	DEC '10	
	VICKI MARTIN SIGNATURE ON ORIGINAL 17/10/2011	DRAWING FILENAME	BSD-9071 (C) Tree grate - S	etout plan - S	Sheet 1 of 3.dwg	
	PRINCIPAL OFFICER URBAN DESIGN UNIT	ASSOCIATED PLANS	SUPERSEDES UMS-519-1			

ERISBANE CITY

DETAIL 'A'. REFER

BSD-9071 SHEET 3

BRISBANE CITY COUNCIL STANDARD DRAWING

PLAN OF HALF GRATE - UNDERSIDE VIEW

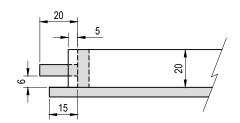
TREE GRATE SETOUT PLAN SHEET 1 OF 3

SCALE NOT TO	SCALE		
DWG No.			
BSD-9071			
ORIGINAL SIZE	REVISION		
Α3	С		

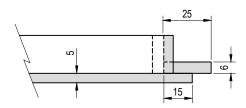
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DETAIL 'A'. REFER

BSD-9071 SHEET

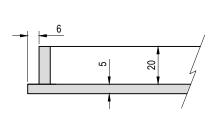


DETAIL A - FEMALE TONGUE SCALE 1:2

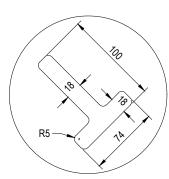


DETAIL B - MALE TONGUE SCALE 1:2

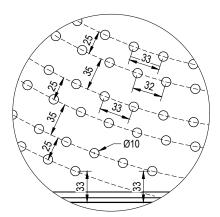
SET BACK 15mm ON FRONT EDGE ONLY. 6mm BACK ON ALL OTHER EDGES



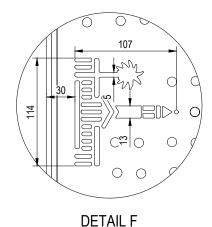
DETAIL C - SUPPORT BAR OFF SET SCALE 1:2



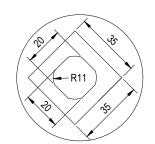
DETAIL D - TREE SPEAR CUT OUT DETAIL SCALE 1:4



DETAIL E SCALE 1:4



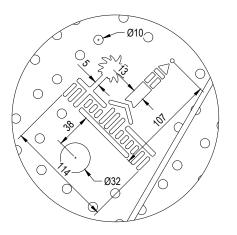
SCALE 1:4



DETAIL G - CAM LOCK PLATE DETAIL

MATERIAL: 3mm STEEL (2 PER TREE HALF)

SCALE 1:4



DETAIL H SCALE 1:4

GENERAL NOTES

. GRATE ASSUMED TO NOT HAVE NOMINATED LOAD CLASSIFICATION AS PER AS3996. CARE TO BE TAKEN TO MINIMISE VEHICLE TRAFFIC LOADING. WHERE GRATE IS TO BE SUBJECTED TO VEHICLE LOADING, INSTALL CLASS 'C' LOAD RATED GRATE (WITH SURFACE PATTERN AS SHOWN) AND FRAME AS DESIGNED AND REVIEWED BY A SUITABLY QUALIFIED RPEQ.

TREE GRATE CONSTRUCTION NOTES

- TC1. TREE GRATE TO BE HOT SPRAYED GALVANISED PRIOR TO POWDER COATING.
- TC2. ALL WELDS TO BE MINIMUM 20mm IN LENGTH. ALL CORNERS TO HAVE VERTICAL DOWN WELDS.
- TC3. ALL SPLATTER & SLAG TO BE REMOVED PRIOR TO GALVANISING.
- TC4. HOLES ARE NOT TO BE WELDED OVER.
- TC5. ALL STRUCTURAL WELDS TO AS1554.
- TC6. CENTRALISE CAM LOCK PLATE OVER 32Ø HOLE BEFORE WELDING IN PLACE 2 OF PER GRATE HALF.
- TC7. POWERCOAT COLOUR TO BE 'INTERPON D1000 SABLE BASS TEXTURE GN297A'

TREE GRATE HOLE SETOUT NOTES

- TH1. LINE OFF SETS ARE STAGGERED BETWEEN 25mm & 35mm. GRATE EDGE TO CENTRE HOLE DISTANCE IS 33mm.
- TH2. CENTRE TO CENTRE HOLE DISTANCE IS APPROXIMATELY 32mm.
- TH3. DIVIDE HOLES PER LINE BY AMOUNTS OF HOLES NOT BY SET DISTANCES TO ACHIEVE A MORE UNIFORM HOLE PATTERN.
- TH4. HOLES TO BE 10mmØ.

INSTALLATION NOTES

I1. REFER TO BSD-9008 'TREE PIT WITH GRATE' FOR SUPPORT FRAME AND INSTALLATION.

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	
Α	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	
В	Drawing Title Amended	FEB '16	JUL '16	JUL '16	
С	General Notes (Note 1) Added	MAR '19	APR '19	APR '19	
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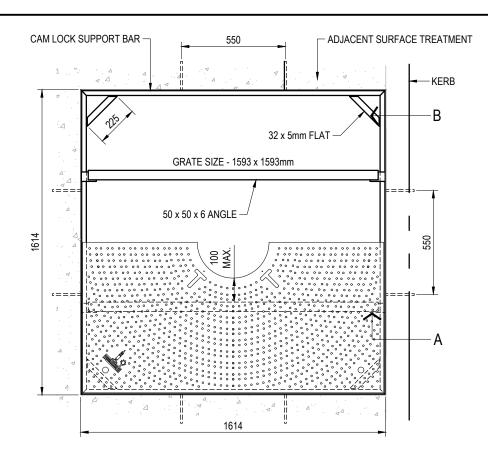
DRAWING AUTHORISED FOR PUBLICATION I. CONDRIC SIGNATURE ON ORIGINAL 06/2012	DESIGN	Std Dwgs WG	DATE	OCT '13
ASSET ENGINEERING MANAGER	DRAWN	CPO - P&D	DATE	OCT '13
STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	CHECKED	D. M	DATE	DEC '10
VICKI MARTIN SIGNATURE ON ORIGINAL 17/10/2011	DRAWING FILENAME	BSD-9071 (C) Tree grate -	Details - Sh	neet 2 of 3.dwg
PRINCIPAL OFFICER URBAN DESIGN UNIT	ASSOCIATED PLANS	SUPERSEDES UMS-519-2		



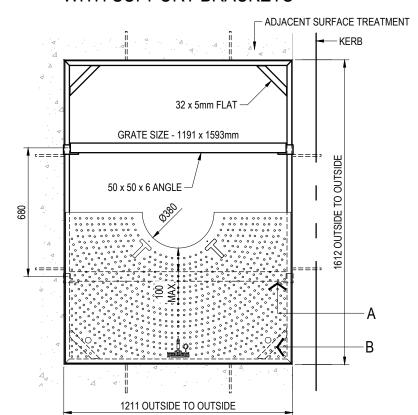
BRISBANE	CITY	COUNCIL	STAND	ARD	DRAWING
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TREE GRATE DETAILS SHEET 2 OF 3

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	BSD-	9071
	ORIGINAL SIZE	REVISION
	Α3	С

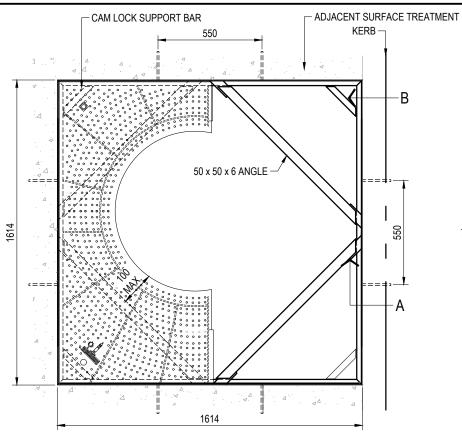


1600 x 1600mm TREE GRATE SUB-FRAME WITH SUPPORT BRACKETS



1200 x 1600 TREE GRATE SUB-FRAME WITH SUPPORT BRACKETS

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	
Α	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14]
В	General Notes Updated - Drawing Cross Ref. & Council Policy	JAN '15	JAN '15	JAN '15	Т
С	Drawing Title Amended	FEB '16	JUL '16	JUL '16	
D	Note 7 Added	MAR '19	APR '19	APR '19]_
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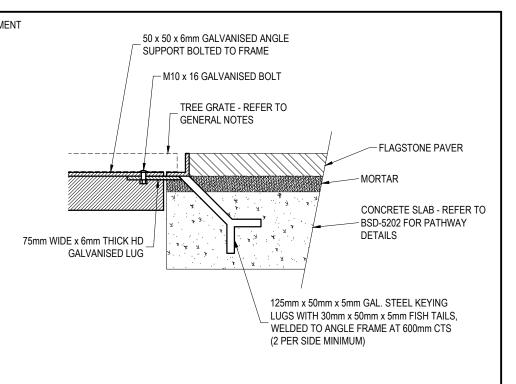


1600 x 1600mm CUSTOM TREE GRATE SUB-FRAME WITH SUPPORT BRACKETS

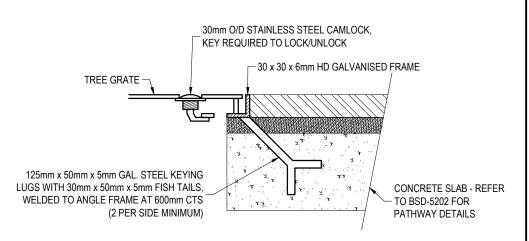
STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE NAME: B.BALAKUMAR RPEQ: 3963

	DRAWING AUTHORISED FOR PUBLICATION I. CONDRIC SIGNATURE ON ORIGINAL 06/2012	DESIGN	Std Dwgs WG	DATE	OCT '13	
)	ASSET ENGINEERING MANAGER	DRAWN	CPO - P&D	DATE	OCT '13	
	STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	CHECKED	D. M	DATE	DEC '10	
	VICKI MARTIN SIGNATURE ON ORIGINAL 17/10/2011	DRAWING FILENAME	BSD-9071 (D) Tree grate - Sub-f	rame details -	Sheet 3 of 3.dwg	
ı	PRINCIPAL OFFICER URBAN DESIGN UNIT	ASSOCIATED PLANS	SUPERSEDES UMS-519-3			





DETAIL A - TREE GRATE SUPPORT BRACKET



DETAIL B - TREE GRATE CORNER FIXING

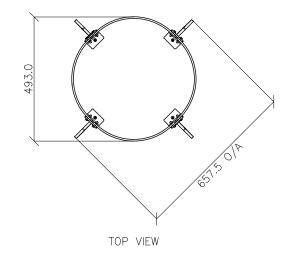
GENERAL NOTES

- 1. REFER TO BSD-9071 SHEET 1 & SHEET 2 FOR STANDARD TREE GRATE DETAILS.
- REFER TO THE INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY FOR PROPOSED FOOTPATH FINISH.
- 3. ALL STEEL TO BE HD GALVANISED AFTER FABRICATION.
- 4. ALL STEEL FIXINGS TO BE HD GALVANISED UNLESS NOTED OTHERWISE
- 5. NO PROTRUDING WELDS TO BE ON THE INSIDE OF FRAME.
- FRAMES REQUIRE SPLITTING IF TREE IS ALREADY ESTABLISHED. ENSURE ANGLE SUPPORT FRAME MATCHES REQUIRED LOCATION AND DIAMETER OF EXISTING TREE.
- 7. GRATE ASSUMED TO NOT HAVE NOMINATED LOAD CLASSIFICATION AS PER AS3996. CARE TO BE TAKEN TO MINIMISE VEHICLE TRAFFIC LOADING. WHERE GRATE IS TO BE SUBJECTED TO VEHICLE LOADING, INSTALL CLASS 'C' LOAD RATED GRATE (WITH SURFACE PATTERN AS SHOWN) AND FRAME AS DESIGNED AND REVIEWED BY A SUITABLY QUALIFIED RPEQ.

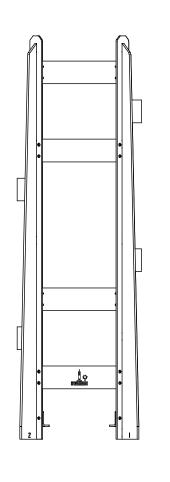
BRISBANE CITY COUNCIL STANDARD DRAWING

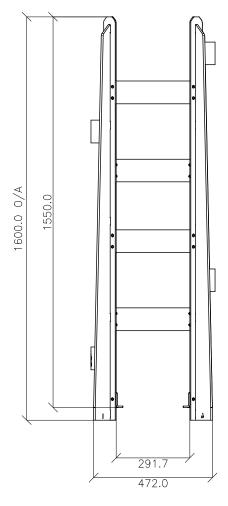
TREE GRATE SUB-FRAME DETAILS SHEET 3 OF 3

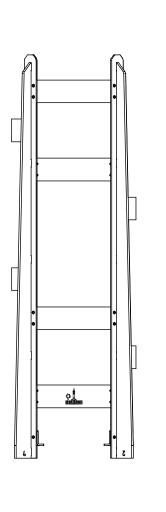
•	DAILD DI	AIIIIO
	SCALE NOT TO	SCALE
	DWG No.	
	BSD-	9071
	ORIGINAL SIZE	REVISION
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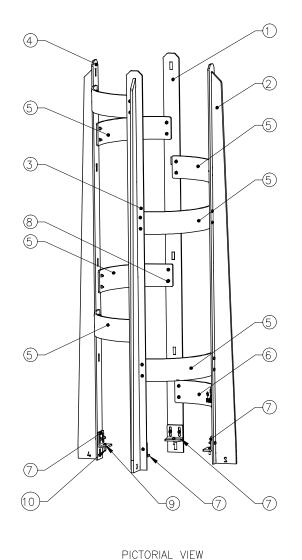


ITEM NO.	DESCRIPTION	QTY.
1	No 1 Upright	1
2	No 2 Upright	1
3	No 3 Upright	1
4	No 4 Upright	1
5	Tree Guard Panel	7
6	Tree Guard Logo Panel	
7	Tree Guard Bracket	4
8	SS304 M6 x 25mm Torx Security But Head, SS304 M6 Spring Washer, SS304 M6 Hex Nut, SS304 M6 Flat Washer	40
9	M6 304 Stainless Steel Spring Washer	
10	M6 x 25mm 304 Stainless Steel BUT Head Torx Security Screw	4









STANDARDS

DESIGNED IN ACCORDANCE WITH, AND FABRICATION TO MEET THE FOLLOWING STANDARDS:

- AS1428.4.1:2009, TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AS1627.4 METAL FINISHING PREPARATION AND PRE—TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL
- AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION,
- GUIDE TO ENGINEERING PRACTICE,
- 'PEDESTRIANS', PART 13, AUSTROADS. AUSTRALIAN ROAD RULES , 1999, 5. WWW.NRTC.GOV.AU
- AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS. 6.
- AS4680:2006, HOT DIP GALVANISING. 8. AS1742.9-2000, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 'BICYCLE
- FACILITIES'.
 GUIDE TO ENGINEERING PRACTICE, 9.
- 'BICYCLES', PART 14, AUSTROADS AUSTRALIAN ROAD RULES , 1999, 10. WWW.NRTC.GOV.AU
- AS2890.3-1993 PARKING FACILITIES PART
- AS 1742.9- 2000 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 9: BIKE FACILITIES

NOTES

- WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE
- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- DRAWING TO ASSEMBLI.

 DRAWING TO AS1100 DRAWING STANDARDS.

 316 S.S AND 316 S.S FASTENERS TO BE
 USED THROUGHOUT FOR COASTAL
 INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.

MATERIAL

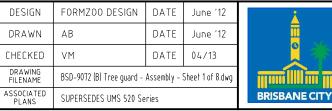
- MATERIAL: SEE COMPONENT DRAWING COLOUR: SEE COMPONENT DRAWING
- FINISH: SEE COMPONENT DRAWING

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

NAME: B.C. PLANT __ _ _ RPEQ: <u>880</u>7_ SIGNATURE: ON ORIGINAL _ _ DATE:28/6/12

FRONT VIEW RIGHT SIDE VIEW LEFT SIDE VIEW

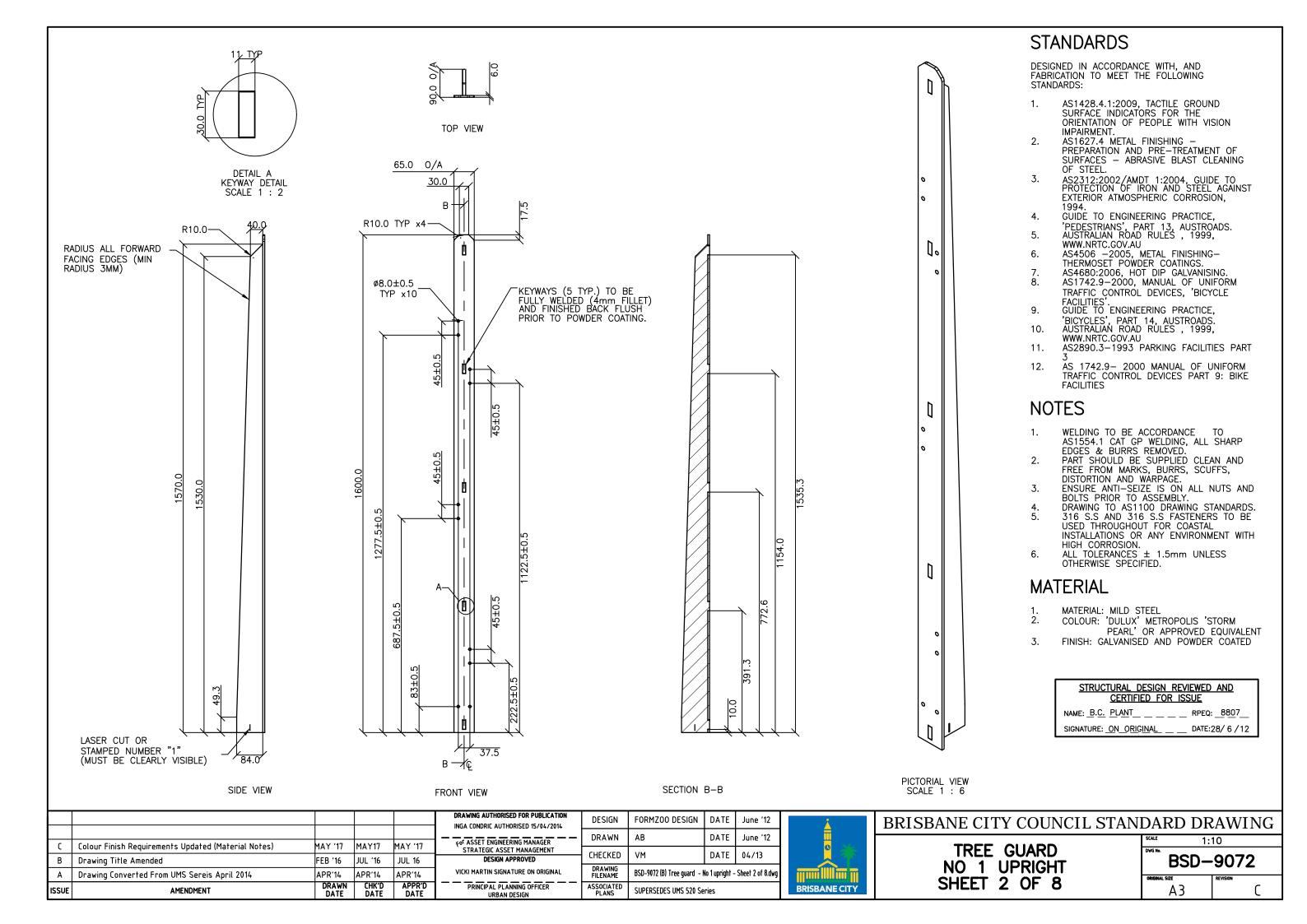
					DRAWING AUTHORISED FOR PUBLICATION
					INGA CONDRIC AUTHORISED 15/04/2014
					FOR ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT
В	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED
А	Drawing Converted From UMS Sereis April 2014	APR'14	APR'14	APR'14	VICKI MARTIN SIGNATURE ON ORIGINAL
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN

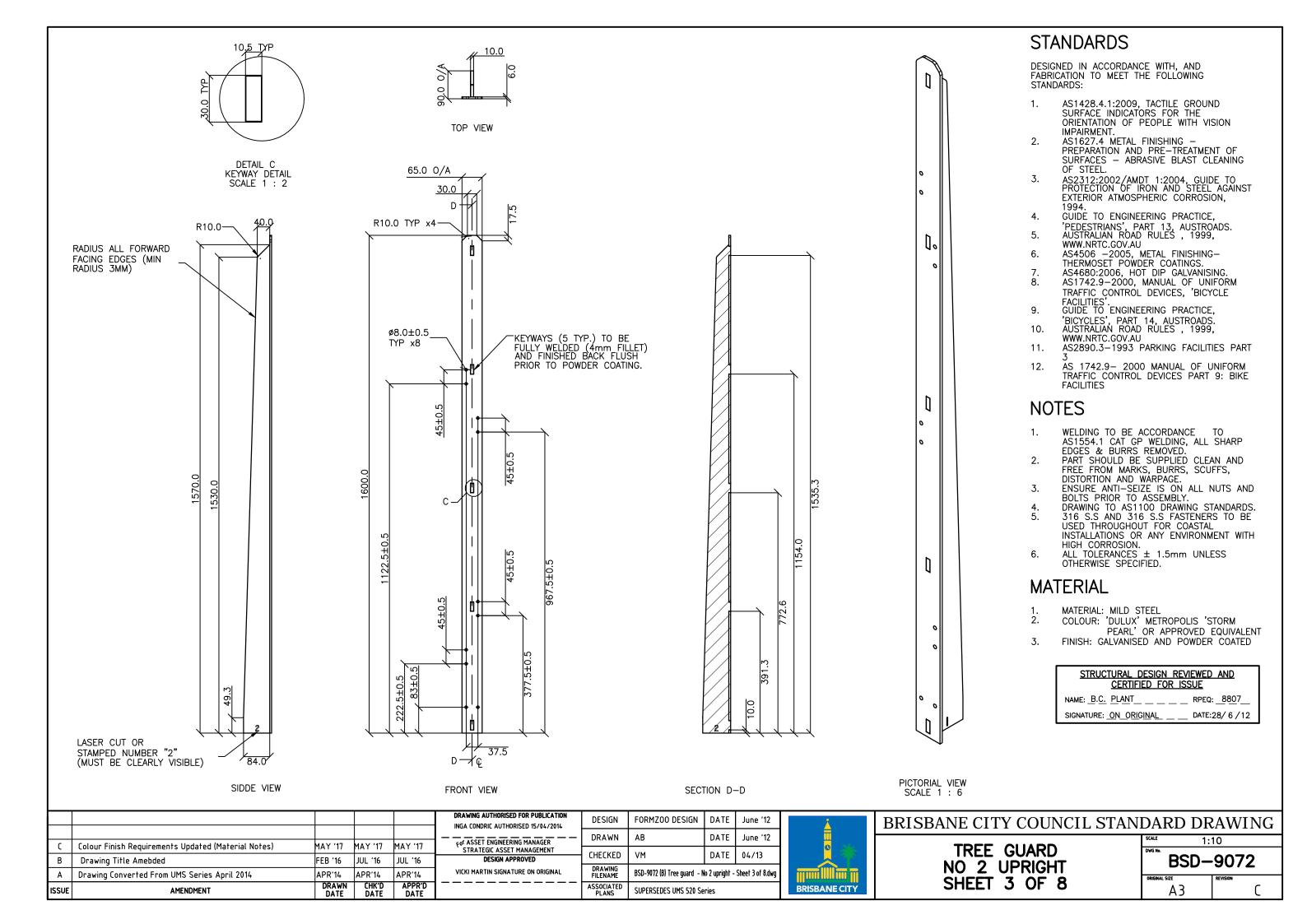


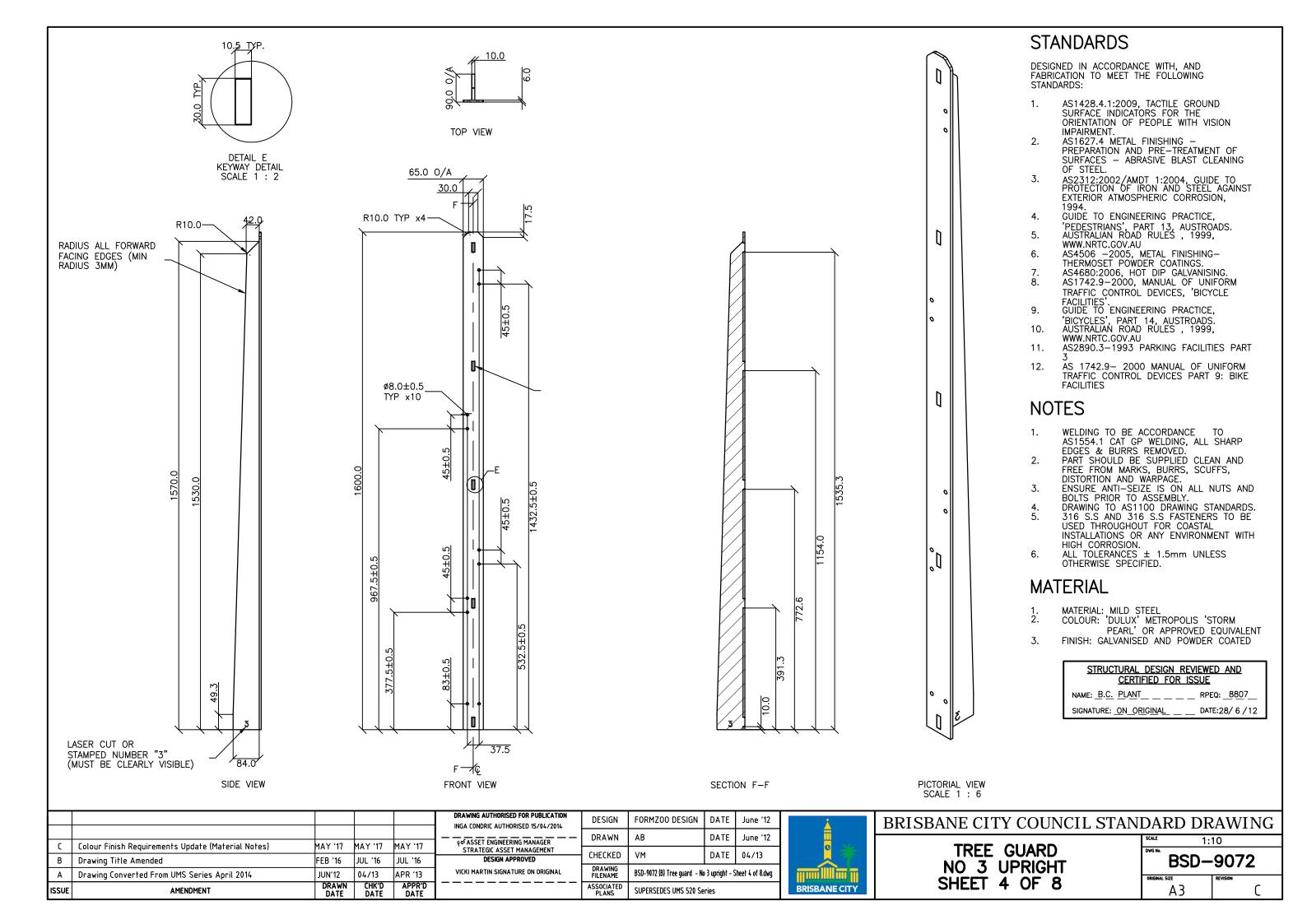
BRISBANE CITY COUNCIL STANDARD DRAWING

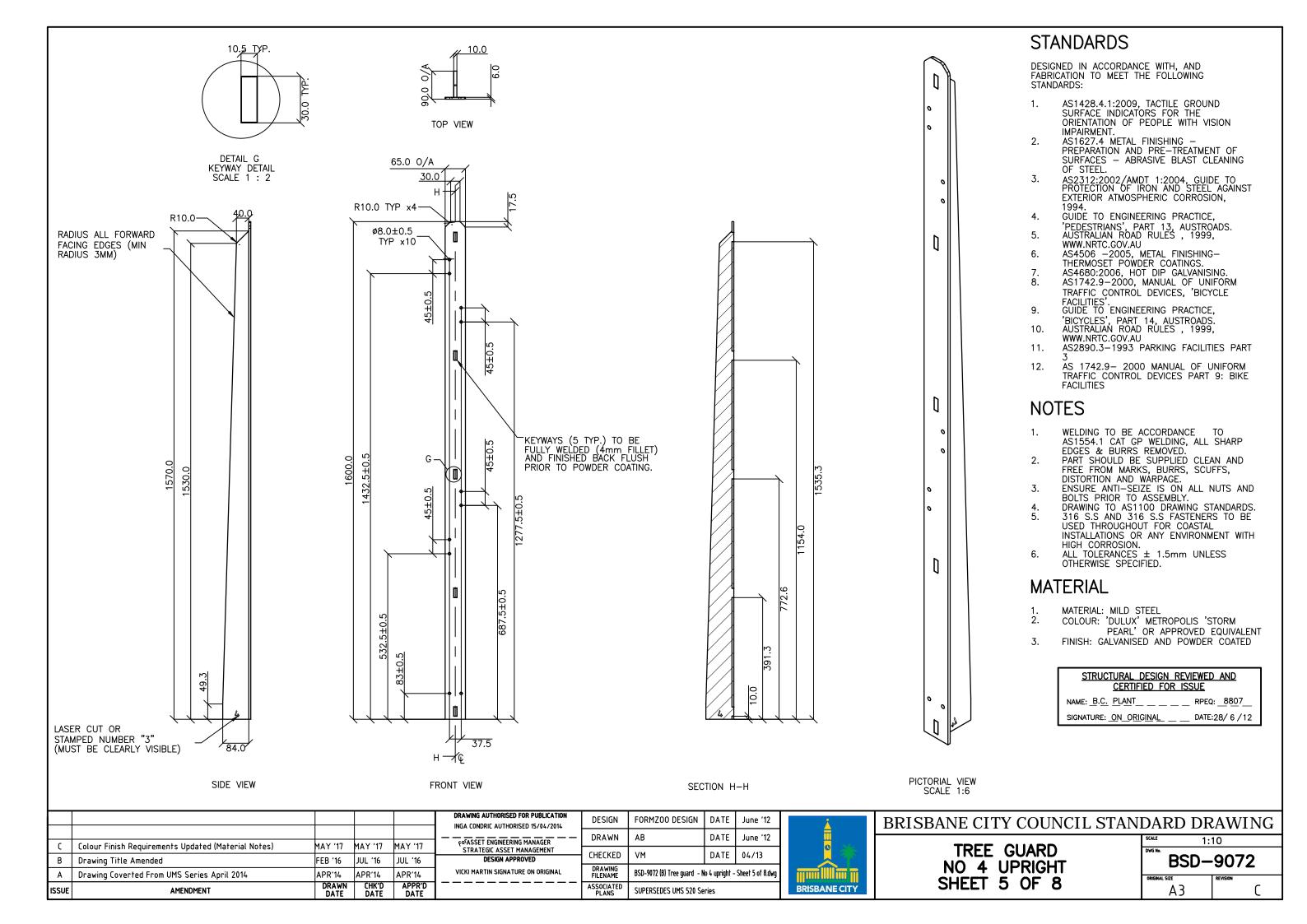
TREE GUARD **ASSEMBLY** SHEET 1 OF 8

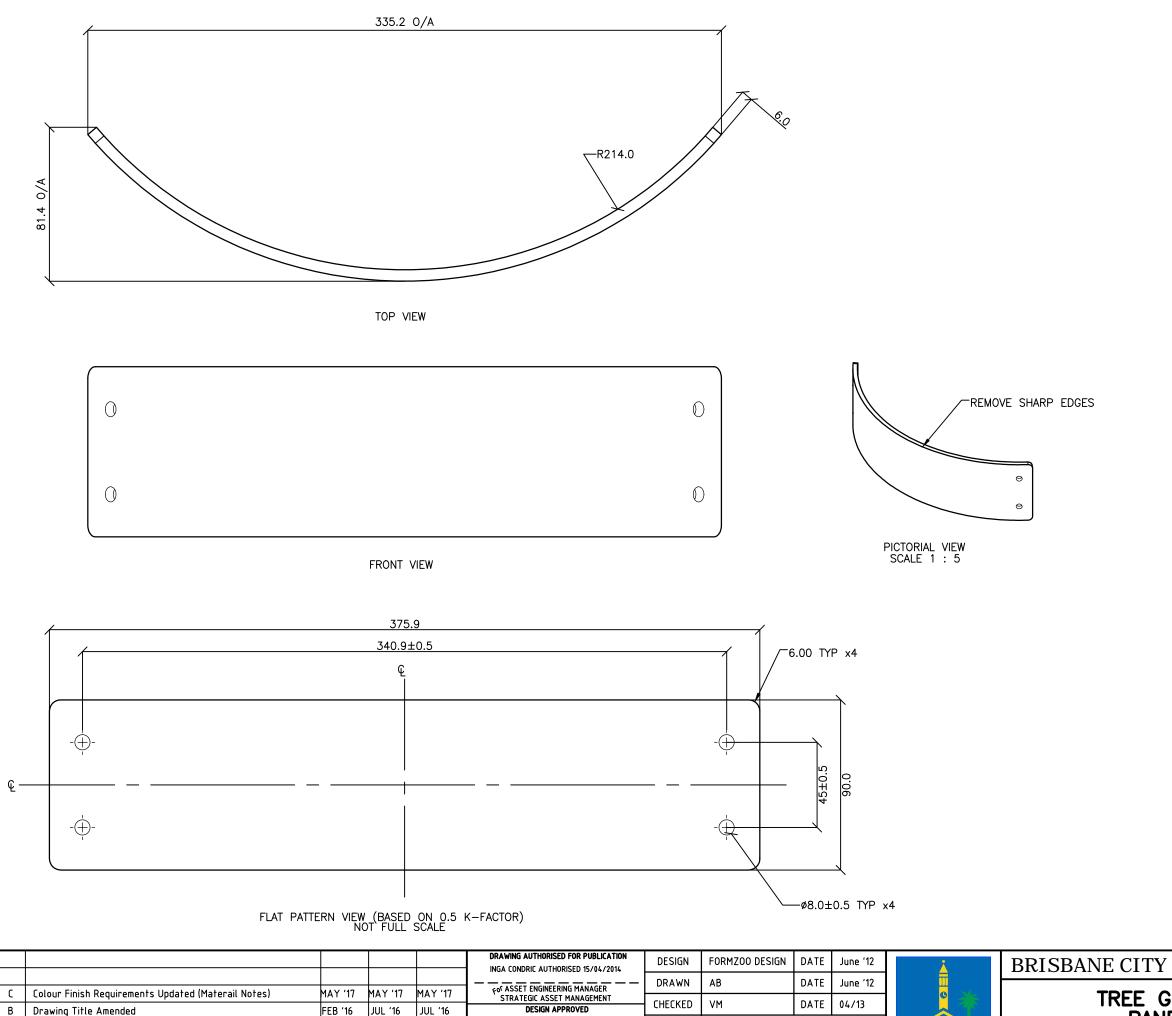
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SCALE 1:	1:15		
DWG No.	0070		
BSD-9072			
ORIGINAL SIZE	REVISION		
Α3	В		











DRAWING FILENAME

ASSOCIATED PLANS BSD-9072 (B) Tree guard panel - Sheet 6 of 8.dwg

SUPERSEDES UMS 520 Series

BRISBANE CITY

VICKI MARTIN SIGNATURE ON ORIGINAL

PRINCIPAL PLANNING OFFICER

URBAN DESIGN

Drawing Converted From UMS Series April 2014

AMENDMENT

ISSUE

APR'14

DRAWN

APR'14

CHK'D

APR'14

APPR'D

DATE

STANDARDS

DESIGNED IN ACCORDANCE WITH, AND FABRICATION TO MEET THE FOLLOWING STANDARDS:

- 1. AS1428.4.1:2009, TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
 - AS1627.4 METAL FINISHING —
 PREPARATION AND PRE—TREATMENT OF
 SURFACES ABRASIVE BLAST CLEANING
 OF STEFI
- AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION,
- 4. GUIDE TO ENGINEERING PRACTICE,
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 5. AUSTRALIAN ROAD RULES , 1999,
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- . AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
- 7. AS4680:2006, HOT DIP GALVANISING.
- 8. AS1742.9-2000, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 'BICYCLE FACILITIES'.
- FACILITIES'. 9. GUIDE TO ENGINEERING PRACTICE,
- 'BICYCLES', PART 14, AUSTROADS.

 10. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- 11. AS2890.3-1993 PARKING FACILITIES PART
- 12. AS 1742.9— 2000 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 9: BIKE FACILITIES

NOTES

- . WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- 2. PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
- 3. ENSURE ANTI—SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- DRAWING TO ASSEMBLY.

 DRAWING TO AS1100 DRAWING STANDARDS.
- 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION
- 6. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.

MATERIAL

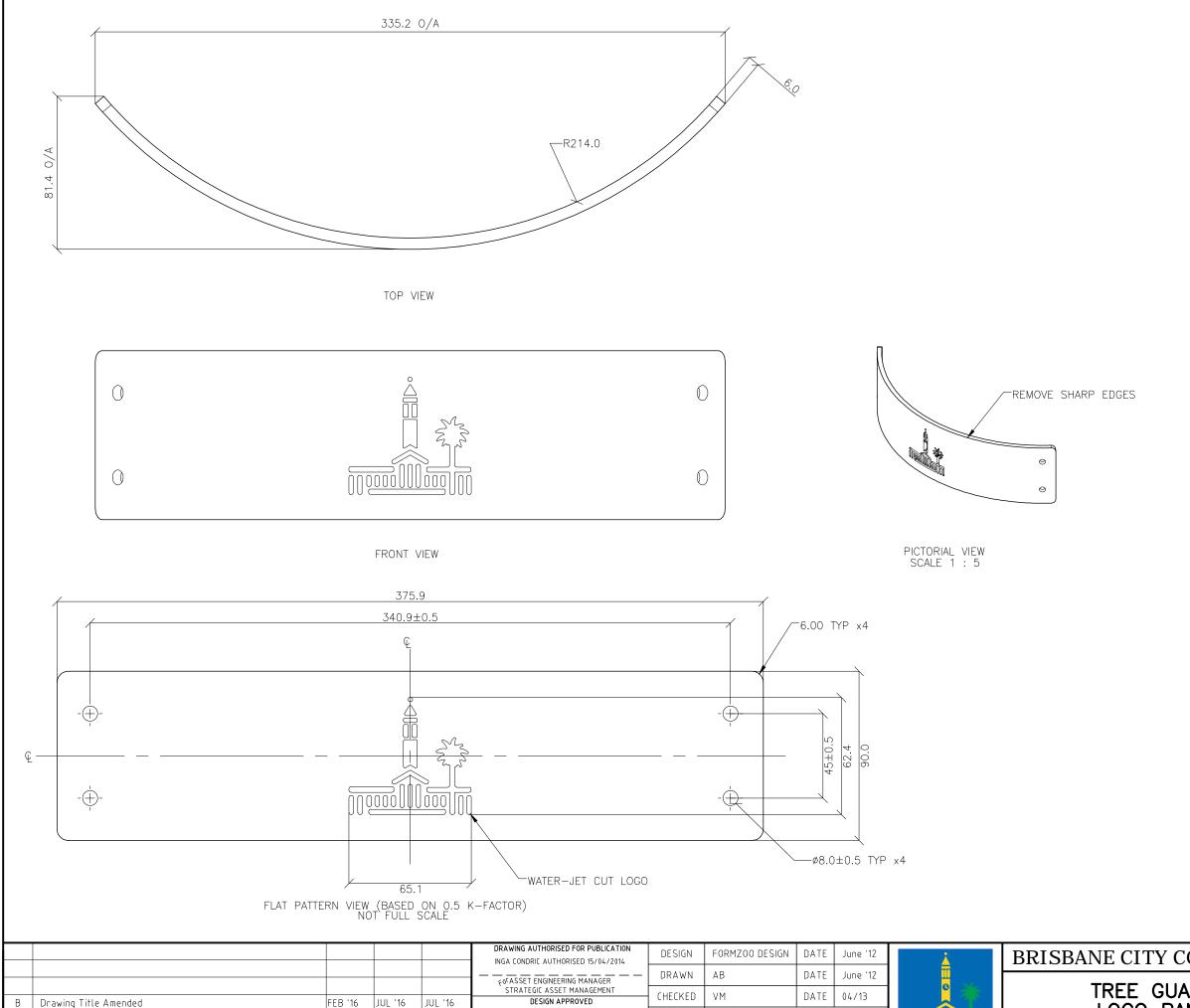
- . MATERIAL: MILD STEEL
- COLOUR: 'DULUX' METROPOLIS 'STORM PEARL' OR APPROVED EQUIVALENT
- 3. FINISH: GALVANISED AND POWDER COATED

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE
NAME: <u>B.C.</u> <u>PLANT</u> RPEQ: <u>880</u> 7
SIGNATURE: ON ORIGINAL DATE:28/ 6 / 12

BRISBANE CITY COUNCIL STANDARD DRAWING

TREE GUARD
PANEL
SHEET 6 OF 8

scale 1:10						
DWG No.	BSD-9072					
ORIGINAL	SIZE	REVISION				
	Α3	(



DRAWING FILENAME

BSD-9072 (B) Tree guard -Logo panel - Sheet 7 of 8.dwg

SUPERSEDES UMS 520 Series

BRISBANE CITY

VICKI MARTIN SIGNATURE ON ORIGINAL

PRINCIPAL PLANNING OFFICER

URBAN DESIGN

APR'14

DRAWN

APR'14

APR'14

APPR'D

Drawing Converted From April 2014

AMENDMENT

ISSUE

STANDARDS

DESIGNED IN ACCORDANCE WITH, AND FABRICATION TO MEET THE FOLLOWING STANDARDS:

- AS1428.4.1:2009, TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
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- WWW.NRTC.GOV.AU AS4506 -2005, METAL FINISHING-
- THERMOSET POWDER COATINGS. AS4680:2006, HOT DIP GALVANISING.
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- WWW.NRTC.GOV.AU
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- AS 1742.9— 2000 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 9: BIKE FACILITIES

NOTES

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- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- DRAWING TO AS1100 DRAWING STANDARDS. 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ALL TOLERANCES \pm 1.5mm UNLESS OTHERWISE SPECIFIED.

MATERIAL

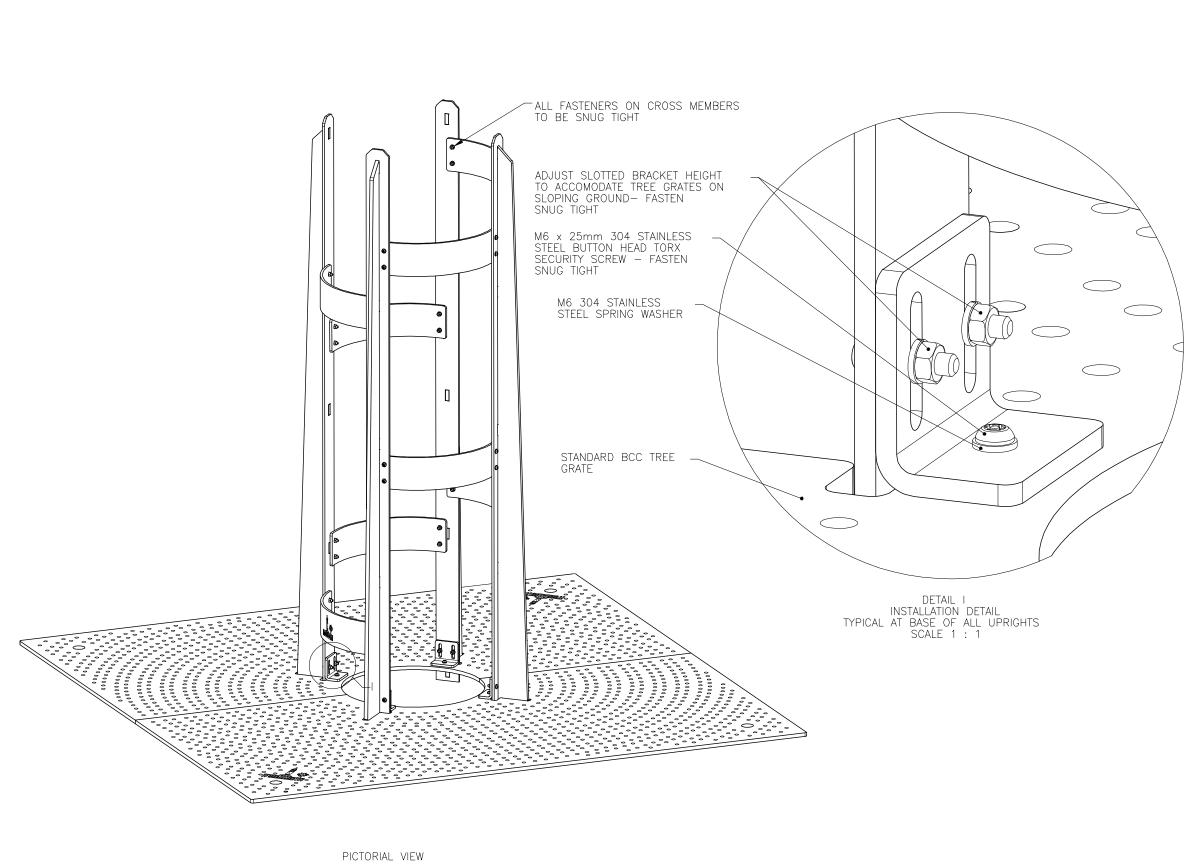
- MATERIAL: 316 STAINLESS STEEL
- COLOUR: NATURAL
- FINISH: GARNET BLASTED

STRUCTURAL DESIGN REVIEWED AND
CERTIFIED FOR ISSUE
NAME: <u>B.C. PLANT</u> RPEQ: <u>8807</u>
SIGNATURE: ON ORIGINAL DATE:28/6/12

BRISBANE CITY COUNCIL STANDARD DRAWING

TREE GUARD LOGO PANEL SHEET 7 OF 8

SCALE	1:	10
DWG No.		
	BSD-	9072
ORIGINAL	SIZE	REVISION
	Δ3	l R



STANDARDS

DESIGNED IN ACCORDANCE WITH, AND FABRICATION TO MEET THE FOLLOWING STANDARDS:

- AS1428.4.1:2009, TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
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- AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION,
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- WWW.NRTC.GOV.AU

- WW.NRT.GOV.AO
 AS4506 -2005, METAL FINISHINGTHERMOSET POWDER COATINGS.
 AS4680:2006, HOT DIP GALVANISING.
 AS1742.9-2000, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 'BICYCLE
- FACILITIES'.
 GUIDE TO ENGINEERING PRACTICE,
- 'BICYCLES', PART 14, AUSTROADS. AUSTRALIAN ROAD RULES , 1999,
- 10. WWW.NRTC.GOV.AU
- AS2890.3-1993 PARKING FACILITIES PART
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 DRAWING TO AS1100 DRAWING STANDARDS.
- 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH
- HIGH CORROSION. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.

MATERIAL

- MATERIAL: SEE COMPONENT DRAWING
- COLOUR: SEE COMPONENT DRAWING
- FINISH: SEE COMPONENT DRAWING

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

NAME: <u>B.C. PLANT</u> ___ _ RPEQ: <u>8807</u> SIGNATURE: ON ORIGINAL _ DATE: 28/6/12

DRAWING AUTHORISED FOR PUBLICATION DESIGN FORMZOO DESIGN DATE June '12 INGA CONDRIC AUTHORISED 15/04/2014 DRAWN AΒ DATE June '12 FOT ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT CHECKED DATE 04/13 DESIGN APPROVED

VICKI MARTIN SIGNATURE ON ORIGINAL

PRINCIPAL PLANNING OFFICER

URBAN DESIGN

DRAWING FILENAME

BSD-9072 (B) Tree guard - Installation - Sheet 8 of 8.dw

SUPERSEDES UMS 520 Series

JUL '16

APR'14

APPR'D

FEB '16

APR'14

DRAWN

JUL '16

APR'14

CHK'D DATE

Drawing title Amended

ISSUE

Drawing Converted From UMS Series April 2014

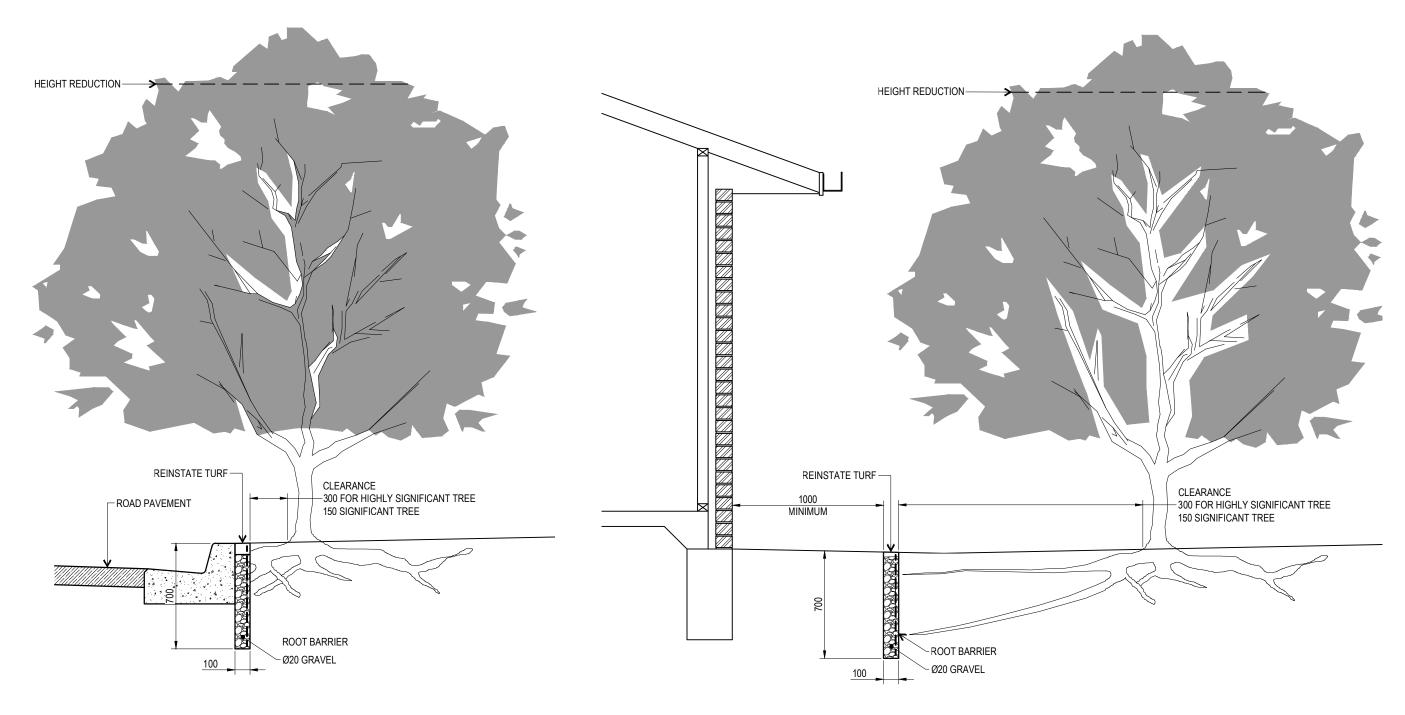
AMENDMENT

BRISBANE CITY

BRISBANE CITY COUNCIL STANDARD DRAWING

TREE GUARD INSTALLATION SHEET 8 OF 8

SCALE 1:	1:10	
BSD-	9072	
ORIGINAL SIZE	REVISION	
А3	В	



ROOT DEFLECTOR INSTALLATION BEHIND KERB

ROOT DEFLECTOR INSTALLATION ADJACENT A STRUCTURE

NOTES:

- LENGTH OF ROOT BARRIER TRENCH TO BE 3000 EACH SIDE OF THE TREE & OR PREFERABLY COVER THE DRIP LINE OF A MATURE TREE, WHICHEVER IS LESSER.
- TREE WILL REQUIRE CROWN THINNING AND MAY REQUIRE HEIGHT REDUCTION.
- 3. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED DESIGNER AND/OR REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



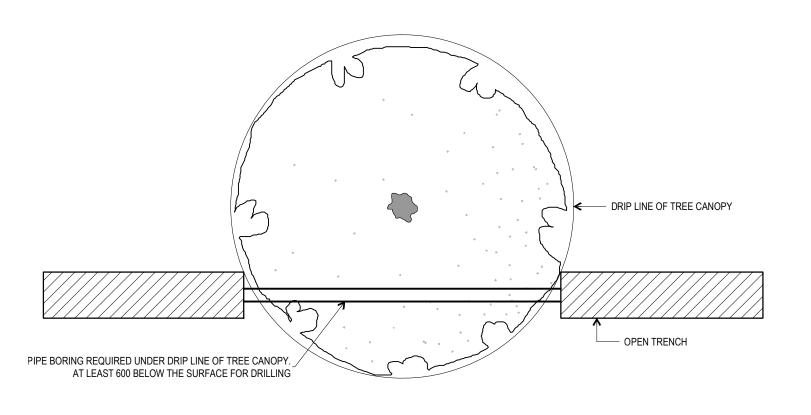
BRISBANE CITY COUNCIL STANDARD DRAWING

ROOT DEFLECTOR INSTALLATION
ADJACENT TO EXISTING
ROAD AND STRUCTURES

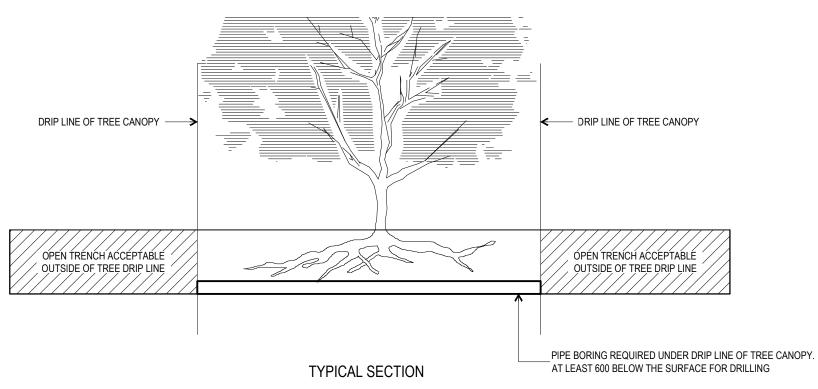
	PUBLISH DATE
	JUN 2023
_	SCALE
	NOT TO SCALE
	DRAWING NUMBER

BSD-9082
ORIGINAL SIZE REVISION

A3



PLAN



INSTALLATION OF SERVICE TRENCH ADJACENT TO A TREE

THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED DESIGNER AND/OR REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

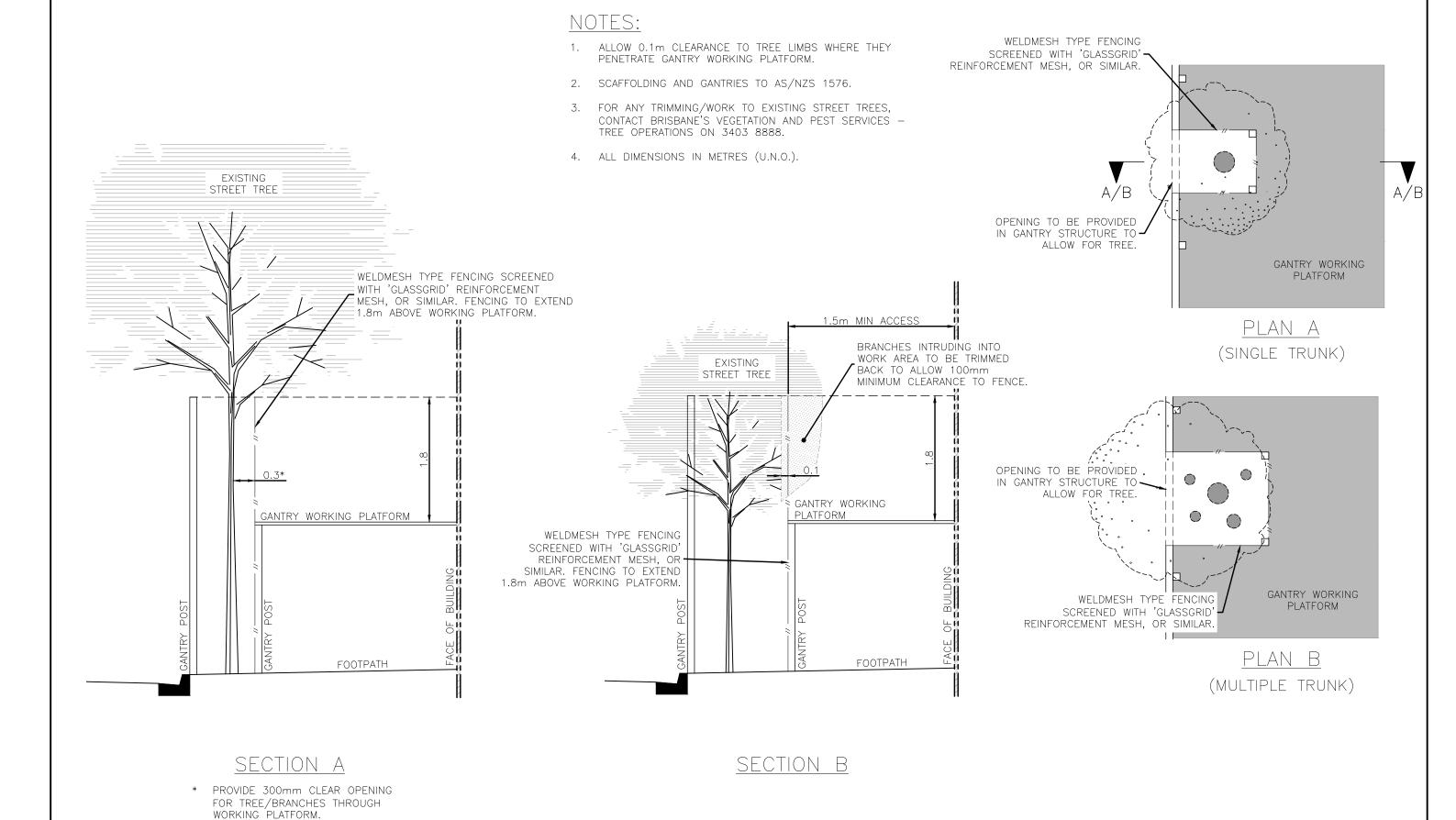
INSTALLATION OF SERVICE TRENCH ADJACENT TO A TREE

JUN 2023

NOT TO SCALE DRAWING NUMBER

BSD-9083

ORIGINAL SIZE REVISION B



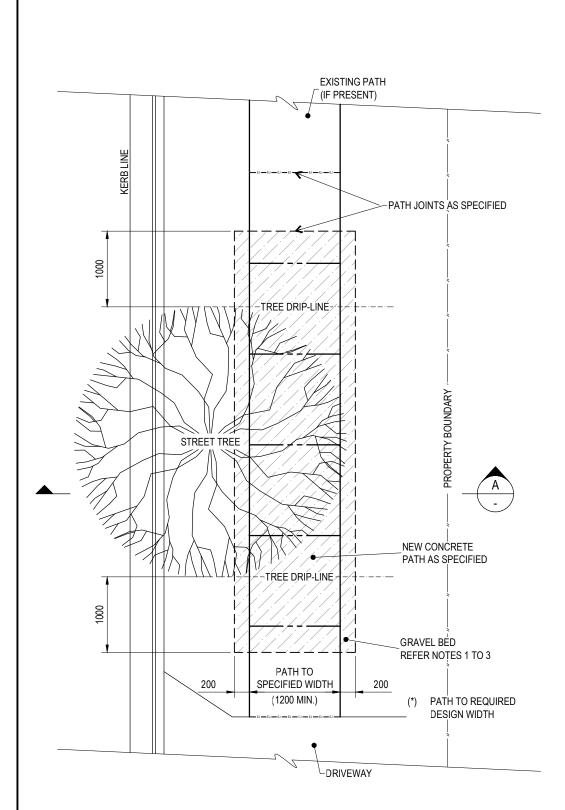
					DRAWING AUTHORISED FOR PUBLICATION P. COTTON SIGNATURE ON ORIGINAL	DESIGN	Std Dwgs WG	DATE	AUG '05
					ASSET ENGINEERING MANAGER	DRAWN	CPO - P&D	DATE	FEB '07
					STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	CHECKED	City Assets (BH)	DATE	JUL '07
А	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	B. HANSEN SIGNATURE ON ORIGINAL DATED 06/08/07	DRAWING FILENAME	BSD-9084 (A) Guidelines for gantr	y treatments at	tree locations.dwg
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL ENGINEER STRATEGIC ASSET MANAGEMENT	ASSOCIATED PLANS	SUPERSEDES UMS-531		



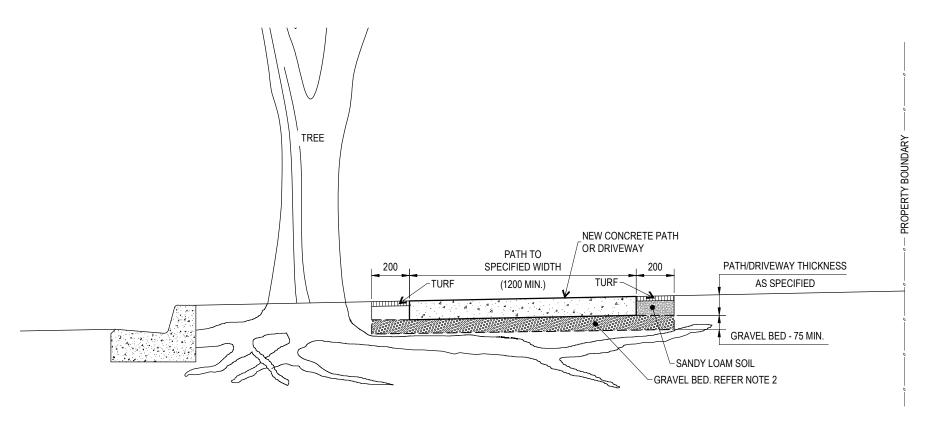
BRISBANE CITY COUNCIL STANDARD DRAWING

GUIDELINES FOR GANTRY TREATMENTS AT TREE LOCATIONS

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BSI	D-	9084
ORIGINAL SIZE		REVISION
Α3		Α



PLAN
(1200 WIDE FOOTPATH EXAMPLE SHOWN)



SECTION A-A

NOTES:

- 1. GRAVEL BED INSTALLED AS REQUIRED OR DIRECTED TO ALLOW EASE OF ROOT TRAVEL BELOW CONCRETE PATH OR DRIVEWAY.
- 2. MATERIAL FOR GRAVEL BED TO BE NOMINAL 20mm ROUNDED STONE/GRAVEL, UNIFORMLY GRADED TO MINIMUM 75 DEPTH.
- 3. GRAVEL BED TO EXTEND MINIMUM 1000 PAST DRIP-LINE OF TREE AND MINIMUM 200 EITHER SIDE OF PATH.
- FOR NEW DEVELOPMENTS, STREET TREE LOCATION/PLANTINGS/SPECIES TO BE CONFIRMED PRIOR TO PATH CONSTRUCTION.
- 5. FOR LOCATIONS WITH EXISTING STREET TREES, A QUALIFIED ARBORIST IS REQUIRED TO BE CONSULTED TO CHECK ROOT SYSTEM BEFORE INSTALLATION OF PATH. ROOT TRIMMING OR PRUNING IS ONLY TO BE CONSIDERED AS A LAST OPTION WITH APPROVAL FROM THE ARBORIST.
- 7. STANDARD DOES NOT APPLY TO HIGHLY SIGNIFICANT TREES. CONTACT COUNCIL ON 3403 8888 FOR SPECIAL REQUIREMENTS AT THESE LOCATIONS.
- REFER BSD-5201 FOR STANDARD FOOTPATH DETAILS AND BSD-5208 FOR EXPANSION JOINT REQUIREMENTS.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED DESIGNER AND/OR REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

PROVISION FOR TREE ROOTS UNDER CONCRETE PATHS, DRIVEWAYS AND BIKEPATHS

JUN 2023

SCALE

NOT TO SCALE

DRAWING NUMBER

BSD-9085

ORIGINAL SIZE REVISION A

GENERAL NOTES & SPECIFICATIONS

- ENSURE WALLS ARE LOCATED AND LANDSCAPED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN, AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.
- MATERIAL CHOICES ARE TO BE DETERMINED ON THE GROUNDS OF SUSTAINABILITY, LOW MAINTENANCE, VANDAL RESISTANCE, ENVIRONMENTALLY FRIENDLY COMPOSITE MATERIALS, PRODUCT AVAILABILITY AND SUITABILITY TO THE CLIMATIC CONDITIONS AND PRACTICALITY, WHERE POSSIBLE, MATERIALS ARE TO BE LOCALLY MADE OR SOURCED RATHER THAN IMPORTED FROM OVERSEAS UNLESS SPECIFIED OTHERWISE.
- ENSURE WALLS ARE CLEANED OF CONCRETE SLURRY OR SPRAY WHEN INSTALLED TO PREVENT STAINING OR DAMAGE TO APPLIED FINISHES.
- COLOUR SELECTION IN ACCORDANCE WITH STANDARD BCC CORPORATE COLOUR PALETTE (& AS 2700 EQUIVALENT). IF NO COLOUR SPECIFIED, BOLLARD AND MARKER TO BE INSTALLED AS MANUFACTURED.
- ENSURE GARDEN AREAS (MULCH) FINISH 25mm BELOW ADJACENT CAPPING TIMBER.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

FIXTURES/FITTINGS & METAL WORK NOTES

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS4100 & AS/NZS 1554.
- ALL METAL FINISHES TO BE IN ACCORDANCE WITH AS 4506.
- ALL FIXTURES/FITTINGS UNLESS SPECIFIED ARE TO BE HOT DIPPED GALVANISED UNLESS IN VICINITY OF SALTWATER/SPRAY, ENSURE ALL FASTENERS SHALL BE STAINLESS STEEL. PLASTIC SEPARATORS SHALL BE PROVIDED TO AVOID CONTACT BETWEEN DISSIMILAR MATERIALS.STAINLESS STEEL GRADE 316 TO BE USED. WHERE POSSIBLE ALL FIXINGS TO BE TAMPER/VANDAL PROOF TO MINIMISE DAMAGE OR THEFT.
- IF SPECIFIED RETAINING WALLS ARE TO BE FITTED WITH APPROVED SKATEBOARD DETERRENT DEVICES LEADING EDGES TO MINIMISE DAMAGE.

CONCRETE WORK NOTES

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
- AT A MINIMUM ALL CONCRETE TO BE GRADE N25.
- ALL CEMENT TO BE TYPE GP OR GB TO AS 3972 UNLESS SPECIFIED OTHERWISE.
- NORMAL AGGREGATE SIZE TO BE 20MM, SLUMP TO BE NOT GREATER THAN 80MM.
- THE BOTTOMS OF ALL FOOTINGS ARE TO BE CLEANED OF ALL LOOSE MATERIAL AND WATER PRIOR TO PLACING CONCRETE.

TIMBER WORK NOTES

- TIMBER SHOULD BE SOURCED FROM LEGAL AND SUSTAINABLE SOURCES. TIMBERS ARE CONSIDERED ACCEPTABLE WHERE THERE IS A HIGH DEGREE OF CERTAINTY THAT THEY ARE FROM FORESTS, EITHER NATIVE OR PLANTATION, THAT ARE LEGALLY HARVESTED AND SUSTAINABLY MANAGED. THE CONTRACTOR IS TO SUBMIT EVIDENCE THAT THE TIMBER HAS BEEN OBTAINED FROM A LEGAL AND SUSTAINABLE SOURCE.
- ALL TIMBER TO BE ACQ PRESSURE TREATED OR TANALITH E (COPPER AZOL) TO AS 1608 TREATED ROUGH SAWN APPEARANCE GRADE HARDWOOD OF ONE SPECIES.
- ALL EXPOSED EDGES TO RECEIVE MIN. 5mm WIDE ARRIS.
- PRIOR TO INSTALLATION, ALL CUTS, EDGES, JOINTS TO RECEIVE LIBERAL COATINGS WITH AN APPROVED TIMBER PRESERVATIVE.
- ALL TIMBER IN CONTACT WITH GROUND TO BE PRESERVATIVE TREATED TO HAZARD CLASS H5 TO AS 1604 AND HAVE A DURABILITY CLASS 1 OR 2 TO AS 5604.
- ALL TIMBER TO BE FREE OF KNOTS, SPLINTERS, CRACKS OR ANY MAJOR DEFECT.
- TIMBER PRESERVATIVES WHERE NO FINISH SPECIFIED, ALL TIMBER TO RECEIVE 3 No COATS OF CLEAR APPROVED TIMBER PRESERVATIVE SUCH AS COPPER NAPTHENATE OIL (FOR ABOVE GROUND USE) AND COPPER NAPTHENATE EMULSION (FOR BELOW GROUND USE) - COAT ENTIRE BOLLARD PRIOR TO PLACING.
- COLOUR SELECTION WHERE APPLICABLE IN ACCORDANCE WITH STANDARD CORPORATE COLOUR PALETTE. COAT ENTIRE BOLLARD PRIOR TO PLACING.

RECYCLED PLASTIC NOTES

- SECTIONS TO BE FORMED FROM A SINGLE, CONTINUOUSLY EXTRUDED PIECE.
- MATERIAL TO BE UV STABILISED.
- POROSITY TO A MAXIMUM OF 15% OF CROSS SECTION.
- MAXIMUM VOID LENGTH 10% OF LARGEST CROSS SECTION.
- SURFACE FINISH TO BE SMOOTH AND FREE OF ANY MAJOR VOIDS OR VISIBLE DEFECTS.
- SIZE IS INDICATIVE VARIANCE NOT TO EXCEED APPROX 1.5%.
- COLOUR TO BE CHOSEN FROM AVAILABLE SUPPLIER COLOURS, TYPICALLY GREEN, BLACK, GREY OR BLUE.
- MATERIAL TO HAVE FLAMMABILITY TESTING TO AS ISO TO AS/ISO 9239 AND/OR FIRE HAZARD RATING TO AS/NZS 1530.
- DEMONSTRATED CHEMICAL RESISTANCE.

REFER TO BSD-9302, BSD-9303, BSD-9304 & BSD-9307 FOR ASSOCIATED DETAILS

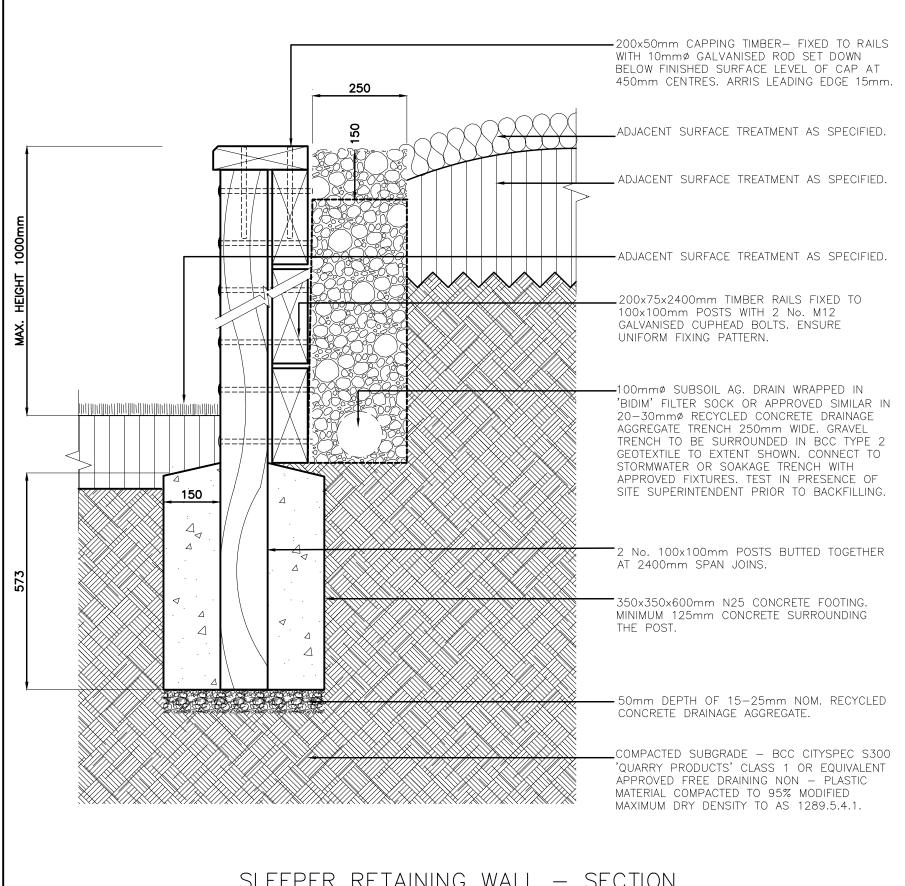
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-733		
Α	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWING FILENAME	BSD-9302.dwg		
					R.P.E.Q: 2546 DESIGN APPROVED	CHECKED	UMD – E&P & IMB	DATE	OCT '13
					03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT	DRAWN	CPO – P&D	DATE	OCT '13
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED	DESIGN	Std Dwgs WG	DATE	OCT '13



BRISBANE CITY COUNCIL STANDARD DRAWING

RETAINING WALLS -GENERAL NOTES

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	SCALE	1:	10				
	DWG No.	_					
	BSD-9301						
	ORIGINAL SI	ZE	REVISION				
		A3	Α				



GENERAL NOTES & SPECIFICATIONS

- ENSURE RETAINING WALLS ARE LOCATED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- ENSURE RETAINING WALLS ARE CLEANED OF CONCRETE SLURRY OR SPRAY WHEN INSTALLED TO PREVENT STAINING OR DAMAGE TO APPLIED FINISHES.
- AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

CONCRETE WORK NOTES

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
- AT A MINIMUM ALL CONCRETE TO BE GRADE N25. CONCRETE SHALL BE NORMAL CLASS CONCRETE UNLESS DIRECTED OTHERWISE. N25 SHALL MEAN NORMAL CLASS CONCRETE WITH A 28 DAY CHARACTERISTIC STRENGTH OF 25MPa. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE SITE SUPERINTENDENT FOR APPROVAL FIVE (5) DAYS PRIOR TO ORDERING.
- ALL CEMENT TO BE TYPE GP OR GB TO AS 3972 UNLESS SPECIFIED OTHERWISE.
- NORMAL AGGREGATE SIZE TO BE 20mm, SLUMP TO BE NOT GREATER THAN 80mm.
- THE BOTTOMS OF ALL FOOTINGS ARE TO BE CLEANED OF ALL LOOSE MATERIAL AND WATER PRIOR TO PLACING CONCRETE.

TIMBER WORK NOTES

- TIMBER SHOULD BE SOURCED FROM LEGAL AND SUSTAINABLE SOURCES. TIMBERS ARE CONSIDERED ACCEPTABLE WHERE THERE IS A HIGH DEGREE OF CERTAINTY THAT THEY ARE FROM FORESTS, EITHER NATIVE OR PLANTATION, THAT ARE LEGALLY HARVESTED AND SUSTAINABLY MANAGED. THE CONTRACTOR IS TO SUBMIT EVIDENCE THAT THE TIMBER HAS BEEN OBTAINED FROM A LEGAL AND SUSTAINABLE SOURCE.
- ALL TIMBER TO BE ACQ PRESSURE TREATED OR TANALITH E (COPPER AZOL) TO AS1608 TREATED ROUGH SAWN APPEARANCE GRADE HARDWOOD OF ONE SPECIES.
- ALL EXPOSED EDGES TO RECEIVE MIN. 5mm WIDE ARRIS.
- PRIOR TO INSTALLATION, ALL CUTS, EDGES, JOINTS TO RECEIVE LIBERAL COATINGS WITH AN APPROVED TIMBER PRESERVATIVE.
- ALL TIMBER IN CONTACT WITH GROUND TO BE PRESERVATIVE TREATED HAZARD CLASS H5 TO AS 1604 AND HAVE A DURABILITY CLASS 1 OR 2 TO AS 5604.
- ALL TIMBER TO BE FREE OF KNOTS, SPLINTERS, CRACKS OR ANY MAJOR DEFECT.
- TIMBER PRESERVATIVES WHERE NO FINISH SPECIFIED, ALL TIMBER TO RECEIVE 3 No COATS OF CLEAR APPROVED TIMBER PRESERVATIVE SUCH AS COPPER NAPTHENATE OIL (FOR ABOVE GROUND USE) AND COPPER NAPTHENATE EMULSION (FOR BELOW GROUND USE).
- COLOUR SELECTION WHERE APPLICABLE IN ACCORDANCE WITH STANDARD CORPORATE COLOUR PALETTE. COAT ENTIRE BOLLARD PRIOR TO PLACING.

SLEEPER RETAINING WALL - SECTION

					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED	DESIGN	Std Dwgs WG	DATE	OCT '13
					03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT	DRAWN	CPO - P&D	DATE	OCT '13
					R.P.E.Q: 2546 DESIGN APPROVED	CHECKED	UMD - E&P & IMB	DATE	OCT '13
А	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWING FILENAME	BSD-9302 (A) Retaining wa	all - Sleepe	n.dwg
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-733		



BRISBANE CITY COUNCIL STANDARD DRAWING

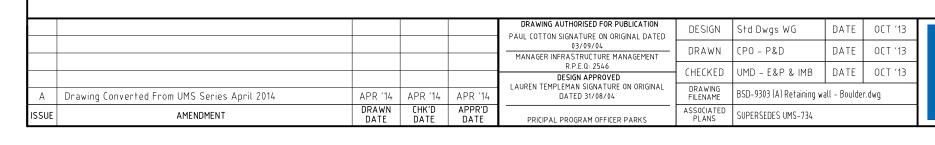
RETAINING WALL SLEEPER

SCALE 1	:10
DWG No.	
BSD-	-9302
ORIGINAL SIZE	REVISION
Α3	Α

MULCH / LANDSCAPING AS SPECIFIED NOTE: SIZE OF BOULDERS TO BE MIN OF 400MM HIGH X 400MM WIDE X 400MM DEEP. REFER TO SPECIFICATION FOR ROCK TYPE. BOULDER RETAINING WALL - MAX. HEIGHT 1000mm. ENSURE BOULDERS OF ONE CONSISTENT TYPE AND LOOK WITH MOST WEATHERED FACE PLACED UPPFRMOST. ENSURE BEDDING PLANES ARE INCLINED INTO BANK CUT TO PREVENT MOVEMENT. PLANES BETWEEN BOULDERS TO BE PARALLEL. SURROUND GRAVEL BACKFILL WITH TYPE 2 BCC FILTER FABRIC. PLANTING CAN BE PLACED IN POCKETS BETWEEN BOULDERS IF SPECIFIED. KEY BOULDER TO BE BURIED 3/3 OF HEIGHT INTO SUB-GRADE. ADJACENT SURFACE - MULCH / LANDSCAPE AS SPECIFIED COMPACTED SUBGRADE BELOW KEY BOULDER - BCC CITYSPEC S300 'QUARRY PRODUCTS' CLASS 1 OR EQUIVALENT APPROVED FREE DRAINING NON - PLASTIC MATERIAL COMPACTED TO 95% MODIFIED MAXIMUM DRY DENSITY TO AS 1289.5.4.1. 100mmø SUBSOIL AG DRAIN WRAPPED IN 'BIDIM' FILTER SOCK OR APPROVED SIMILAR IN 20-30mm Ø RECYCLED CONCRETE DRAINAGE AGGREGATE GRAVEL TRENCH. CONNECT TO STORMWATER OR SOAKAGE TRENCH WITH APPROVED FIXTURES. BOULDER RETAINING WALL - SECTION

GENERAL NOTES & SPECIFCATIONS

- ENSURE WALLS ARE LOCATED AND LANDSCAPED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN, AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- MATERIAL CHOICES ARE TO BE DETERMINED ON THE GROUNDS OF SUSTAINABILITY LOW MAINTENANCE, VANDAL RESISTANCE, ENVIRONMENTALLY FRIENDLY COMPOSITE MATERIALS, PRODUCT AVAILABILITY AND SUITABILITY TO THE CLIMATIC CONDITIONS AND PRACTICALITY, WHERE POSSIBLE, MATERIALS ARE TO BE LOCALLY MADE OR SOURCED RATHER THAN IMPORTED FROM OVERSEAS UNLESS SPECIFIED OTHERWISE.
- ACCEPTABLE BOULDER TYPES ARE TO BE ACQUIRED LEGALLY FROM A STONE MERCHANT, QUARRY OR ANOTHER SUSTAINABLE SOURCE (NOT TO BE REMOVED FROM BUSHLAND OR A PROTECTED NATURAL ENVIRONMENT UNLESS PERMIT AND LICENSES ARE APPROVED.
- THE APPROVED BOULDER TYPE USED TO FORM THE WALL SHALL BE OF ONE CONSISTENT TYPE. TYPICALLY GRANITE, SANDSTONE, VOLCANIC RED ROCK, QLD PORPHYRY OR OTHER NATURAL QLD BUSHROCK BOULDERS UNLESS SPECIFIED OTHERWISE
- BOULDERS AS SPECIFIED BEST AND MOST NATURAL SURFACES EXPOSED, SHARP / ANGLED EDGES ARE NOT ACCEPTABLE.
- BOULDER WALL TO BE CONSTRUCTED BY A EXPERIENCED CONTRACTOR AND MUST NOT EXCEED ONE METRE IN HEIGHT ABOVE ADJACENT FINISHED SURFACE LEVEL.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

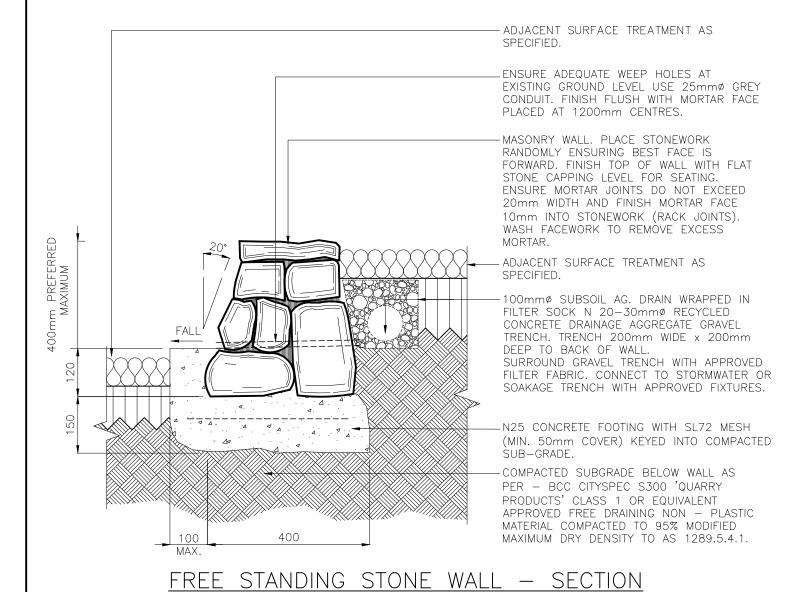




BRISBANE CITY COUNCIL STANDARD DRAWING

RETAINING WALL BOULDER

SCALE 1:	10
DWG No.	
BSD-	9303
ORIGINAL SIZE	REVISION
Α3	А



GENERAL NOTES & SPECIFICATIONS

- ENSURE WALLS ARE LOCATED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- MATERIAL CHOICES ARE TO BE DETERMINED ON THE GROUNDS OF SUSTAINABILITY, LOW MAINTENANCE, VANDAL RESISTANCE, PRODUCT AVAILABILITY AND SUITABILITY TO THE CLIMATIC CONDITIONS. MATERIALS ARE TO BE LOCALLY SOURCED.
- ENSURE GARDEN AREAS (MULCH) FINISH 25mm BELOW ADJACENT WALL AND MAINTENANCE EDGE.
- ENSURE MIN. 1:50 FALL TO MAINTENANCE EDGE.
- ENSURE WALLS ARE CLEANED OF CONCRETE SLURRY/SPRAY WHEN INSTALLED TO PREVENT STAINING OR DAMAGE TO FINISH.
- ACCEPTABLE STONE TYPES ARE TO BE ACQUIRED LEGALLY FROM A STONE MERCHANT, QUARRY OR ANOTHER SUSTAINABLE SOURCE (NOT TO BE REMOVED FROM BUSHLAND OR A PROTECTED NATURAL ENVIRONMENT UNLESS PERMIT AND LICENSES ARE APPROVED.
- THE APPROVED STONE TYPE USED TO FORM THE WALL SHALL BE OF ONE CONSISTENT TYPE. TYPICALLY BLUE STONE, GRANITE, SANDSTONE, QLD PORPHYRY OR OTHER NATURAL QLD STONE UNLESS SPECIFIED OTHERWISE.
- STONE WALL TO BE CONSTRUCTED BY A EXPERIENCED CONTRACTOR AND MUST NOT EXCEED ONE METRE IN HEIGHT ABOVE ADJACENT FINISHED SURFACE LEVEL.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

CONCRETE WORK NOTES

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
- AT A MINIMUM ALL CONCRETE TO BE GRADE N25. CONCRETE SHALL BE NORMAL CLASS CONCRETE UNLESS DIRECTED OTHERWISE. N25 SHALL MEAN NORMAL CLASS CONCRETE WITH A 28 DAY CHARACTERISTIC STRENGTH OF 25MPa. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE SITE SUPERINTENDENT FOR APPROVAL FIVE (5) DAYS PRIOR TO ORDERING.
- ALL CEMENT TO BE TYPE GP OR GB TO AS 3972 UNLESS SPECIFIED OTHERWISE.
- CONCRETE MAINTENANCE EDGE MUST NOT EXCEED 20m IN CONTINUOUS LENGTHS.

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-735		
А	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWING FILENAME	BSD-9307 (A) Free-stand	ing stone wa	all.dwg
					R.P.E.Q: 2546 DESIGN APPROVED	CHECKED	UMD - E&P & IMB	DATE	OCT '13
					03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT	DRAWN	CPO - P&D	DATE	OCT '13
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED	DESIGN	Std Dwgs WG	DATE	OCT '13



BRISBANE CITY COUNCIL STANDARD DRAWING

FREE-STANDING STONE WALL

SCALE 1:	1:10				
DWG No.					
BSD-9307					
ORIGINAL SIZE	REVISION				
Α3	А				