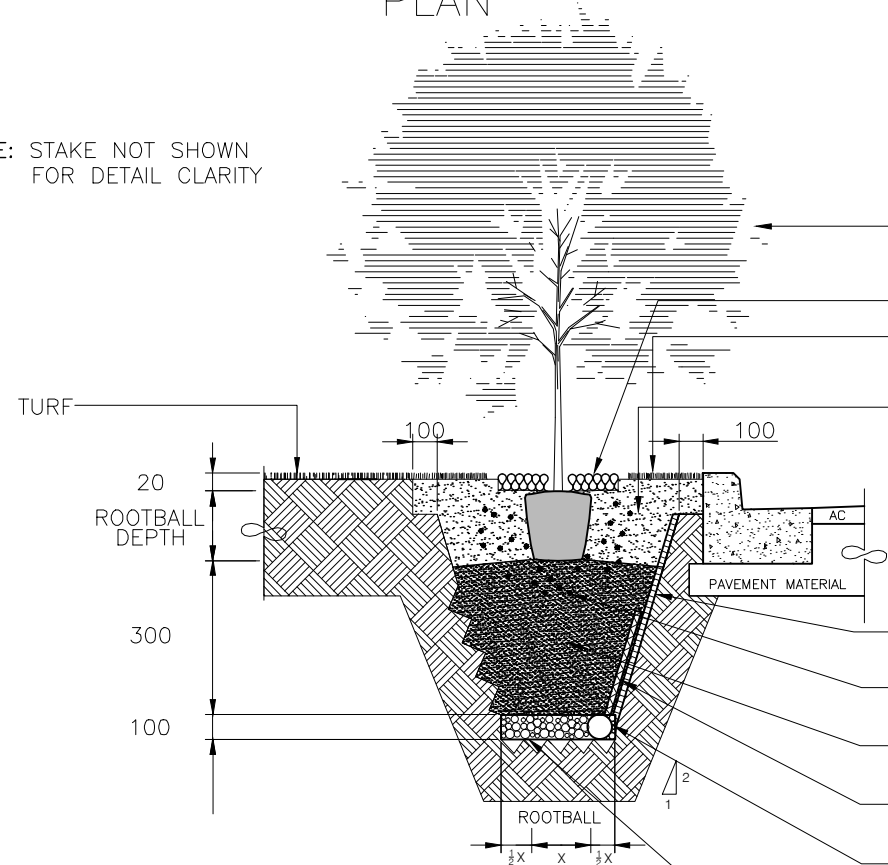


PLAN

NOTE: STAKE NOT SHOWN FOR DETAIL CLARITY



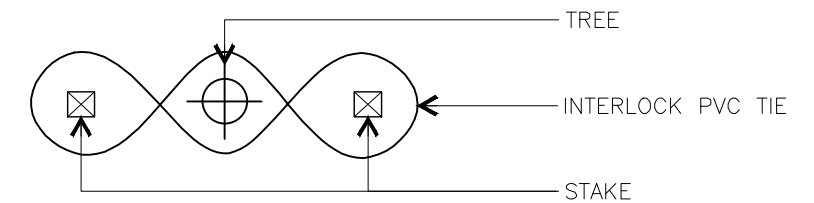
SECTION A-A

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.
- IF SPECIFIED, 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.
- IF SPECIFIED, 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. 100Ø 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

- SUBGRADE
- TURF
- TOPSOIL
- TOPSOIL (COMPACTED)
- MULCH




TREE TIE DETAIL

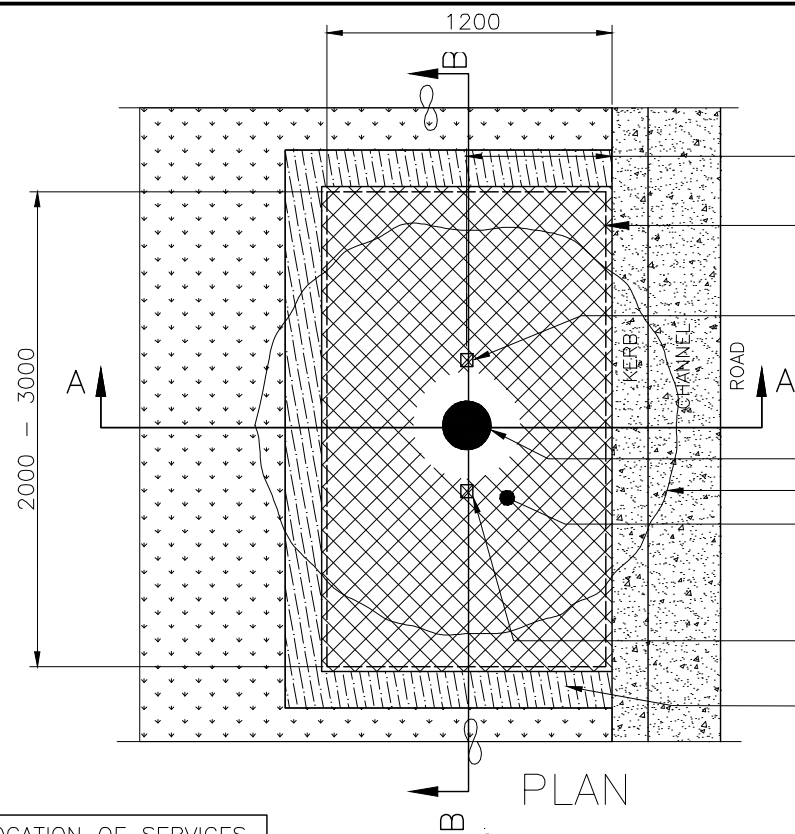
NOTES

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

A.S. SIEVE SIZE(mm)	%PASSING (% BY WEIGHT)	
	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 DATED 29/6/01	DESIGN	Std Dwgs WG	DATE	APRIL '01		BRISBANE CITY COUNCIL STANDARD DRAWING			
						ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	CITY DESIGN	DATE		APRIL '01	SCALE NOT TO SCALE		
						DESIGN APPROVED	CHECKED	K. FOSTER	DATE		MAY '01	TREE PLANTING WITHIN TURF AREAS TO FOOTPATH		
A	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 within turf areas to footpath.dwg		
ISSUE	AMENDMENT			DRAWN DATE	CHK'D DATE	APPR'D DATE	SENIOR PROGRAM OFFICER - LANDSCAPE AMENITY				ASSOCIATED PLANS	SUPERSEDES UMS-511		
												DWG No. BSD-9001		
											ORIGINAL SIZE	A3		
											REVISION	A		



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

LIMIT OF EXCAVATION 1200 WIDE x 2000 TO 3000 LONG.

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.

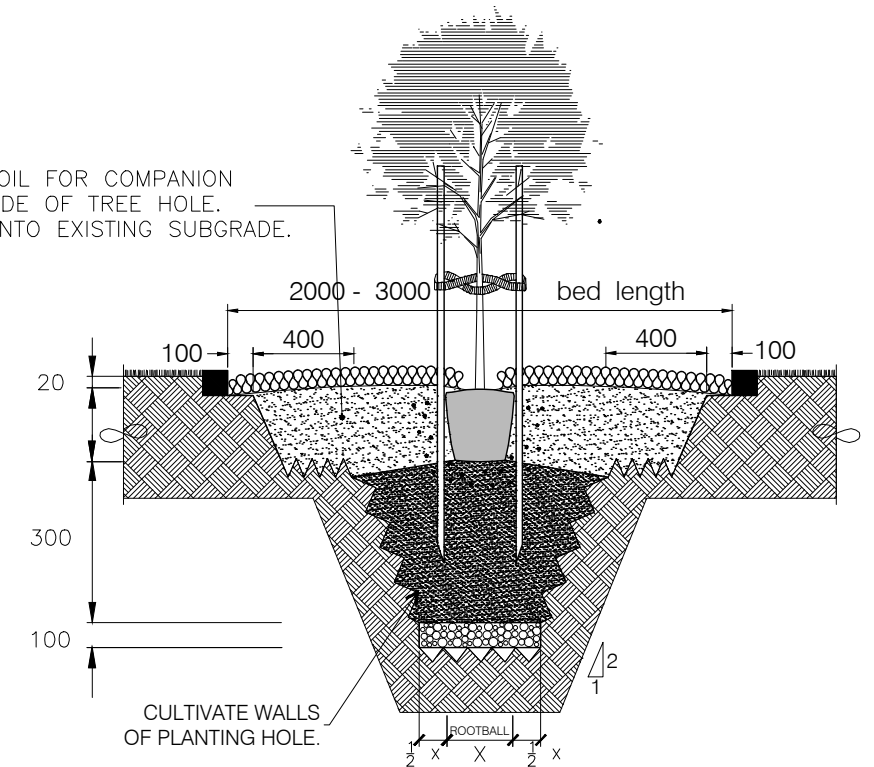
TREE CANOPY DIAMETER.

75 THICK MULCH (GENERALLY). TYPE OF MULCH AS SPECIFIED. MAINTAIN 50-100 RADIUS SEPARATION BETWEEN MULCH AND STEM OF TREE. FINISH MULCH 25 BELOW ADJACENT FSL.

TREE STAKE AS ABOVE.

EDGING AS SPECIFIED, REFER NOTE BELOW.

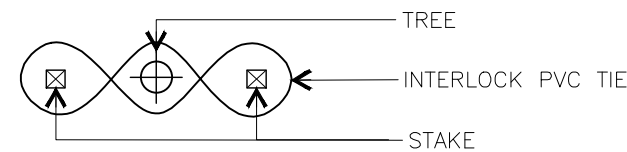
325 MAX DEPTH TOPSOIL FOR COMPANION PLANTING AREAS TO SIDE OF TREE HOLE. CULTIVATE 100 DEEP INTO EXISTING SUBGRADE.



SECTION B-B

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

NOTE: STAKE NOT SHOWN FOR DETAIL CLARITY

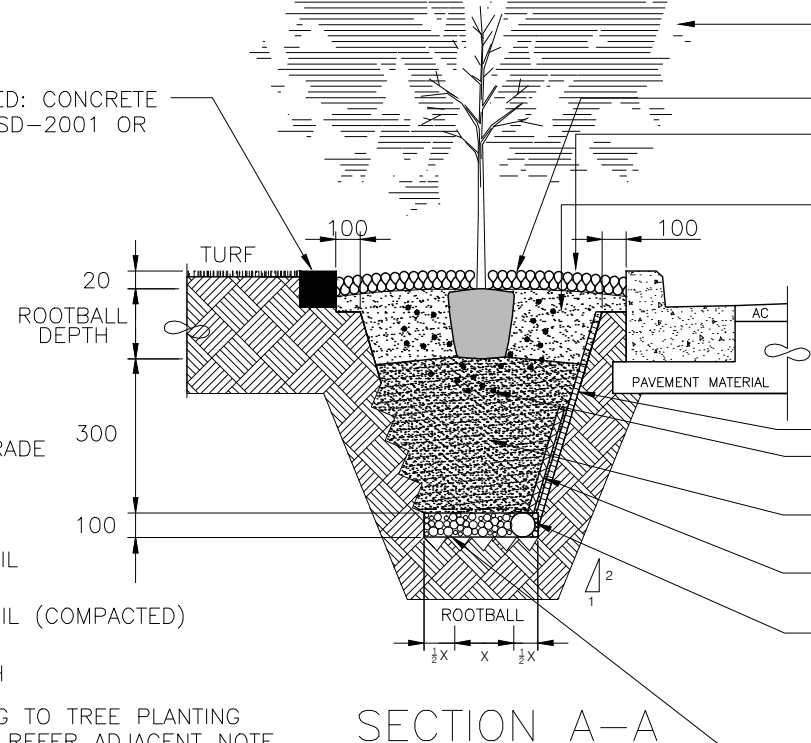


TREE TIE DETAIL

EDGING IF SPECIFIED: CONCRETE 150x150 REFER BSD-2001 OR AS SPECIFIED.

LEGEND

	SUBGRADE
	TURF
	TOPSOIL
	TOPSOIL (COMPACTED)
	MULCH
	EDGING TO TREE PLANTING AREA, REFER ADJACENT NOTE



SECTION A-A

PLANT TYPE AS PER PLANT SCHEDULE.

MULCH GENERALLY 75 THICK AS ABOVE, FINISHED 25 BELOW ADJACENT MOUNDING IF SPECIFIED.

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

IF SPECIFIED, 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.

IF SPECIFIED, 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. 100Ø 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.

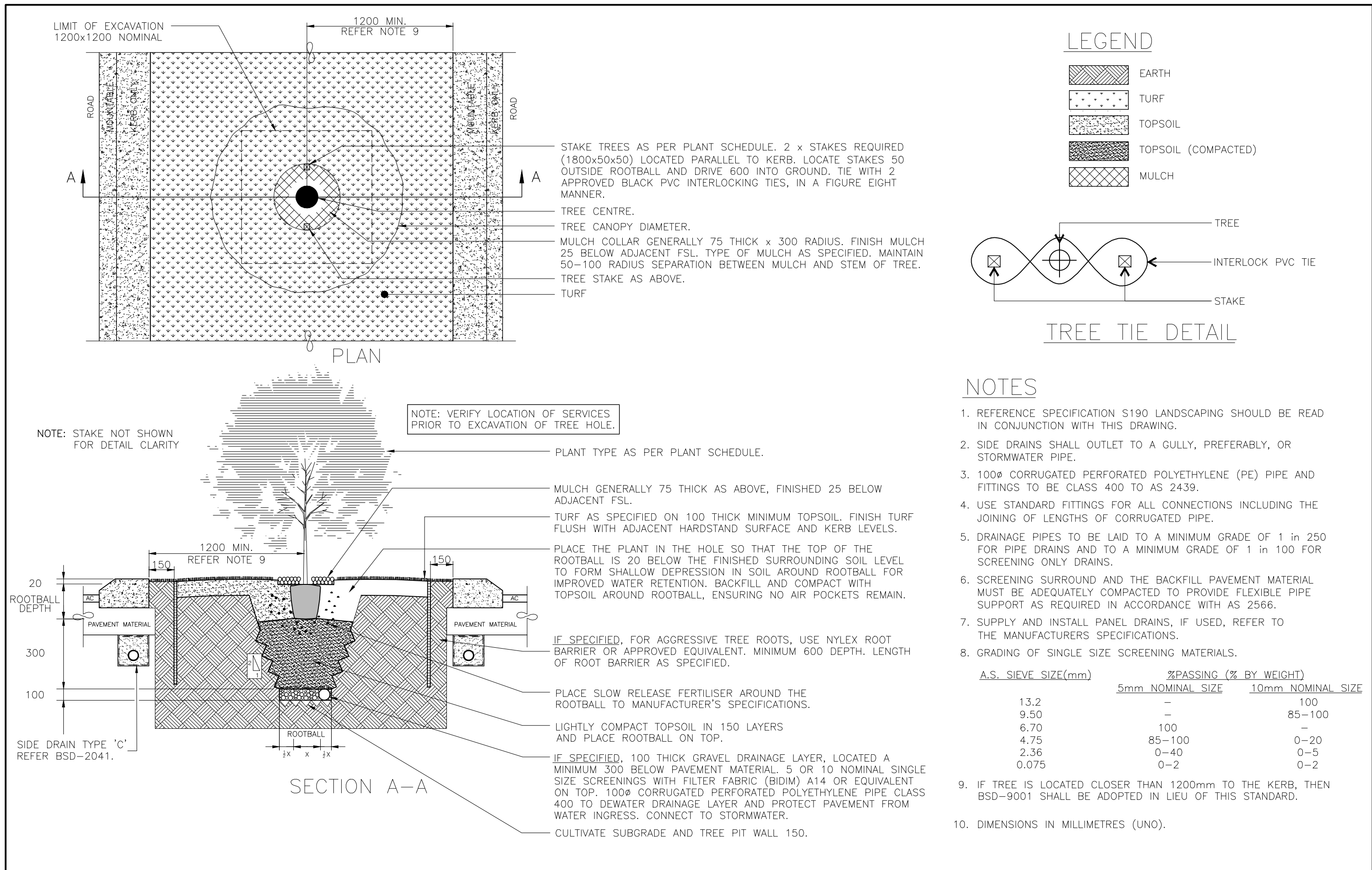
NOTES


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


A.S. SIEVE SIZE(mm)	%PASSING (% BY WEIGHT)	
	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

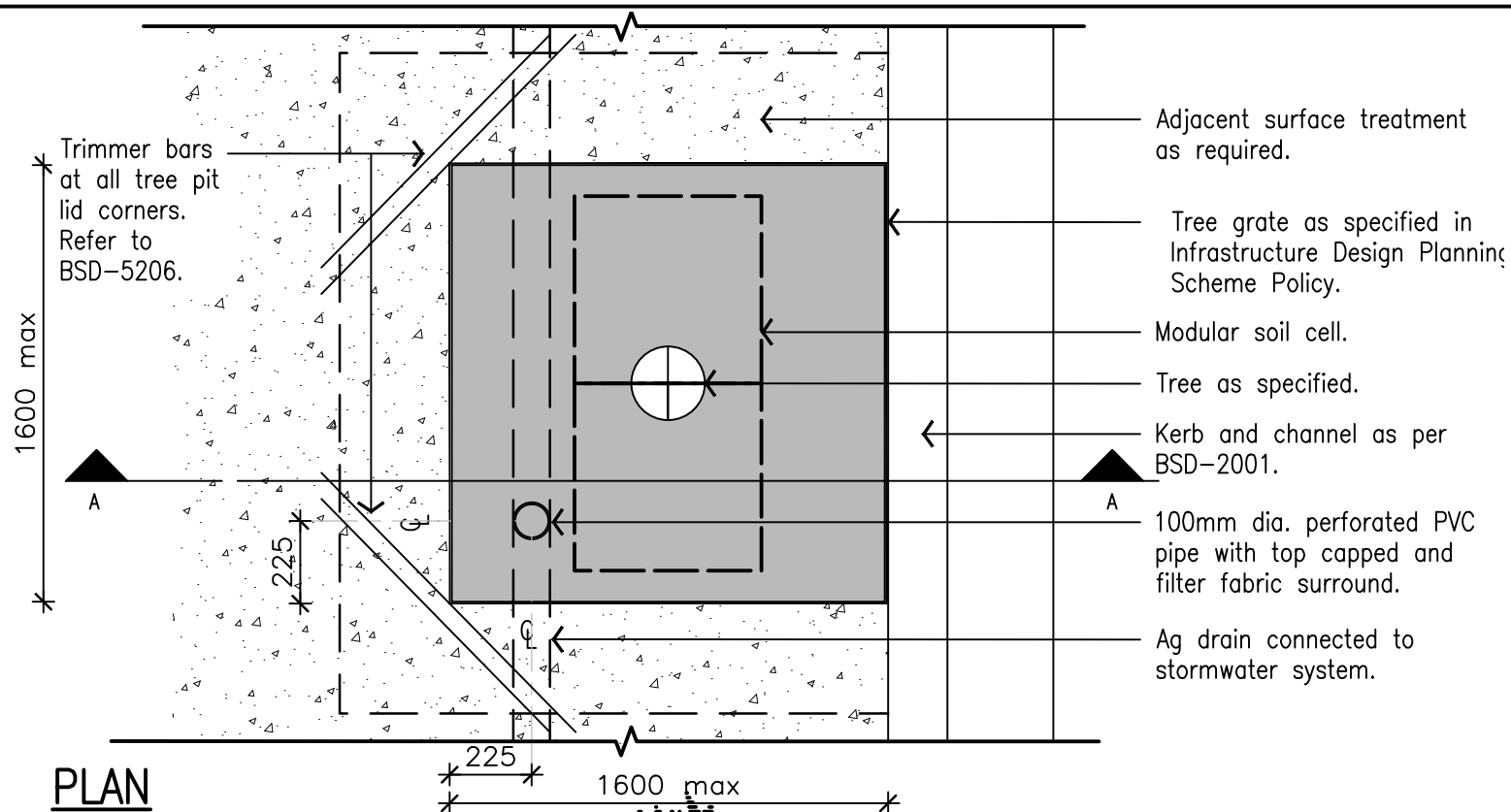
9. DIMENSIONS IN MILLIMETRES (UNO).

					DRAWING AUTHORISED FOR PUBLICATION B. BALL SIGNATURE ON ORIGINAL DATED 29/6/01	DESIGN	Std Dwgs WG	DATE	APRIL '01		BRISBANE CITY COUNCIL STANDARD DRAWING			
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	CPO - P&D	DATE	APRIL '01		SCALE NOT TO SCALE			
					DESIGN APPROVED L. PLANT SIGNATURE ON ORIGINAL DATED 27/6/01	CHECKED	K. FOSTER	DATE	MAY '01		TREE WITH COMPANION PLANTING BED TO FOOTPATH			
					SENIOR PROGRAM OFFICER - LANDSCAPE AMENITY	DRAWING FILENAME	BSD-9003 (A) Tree with companion planting bed to footpath.dwg				DwG No. BSD-9003			
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-513				ORIGINAL SIZE A3	REVISION A		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE										

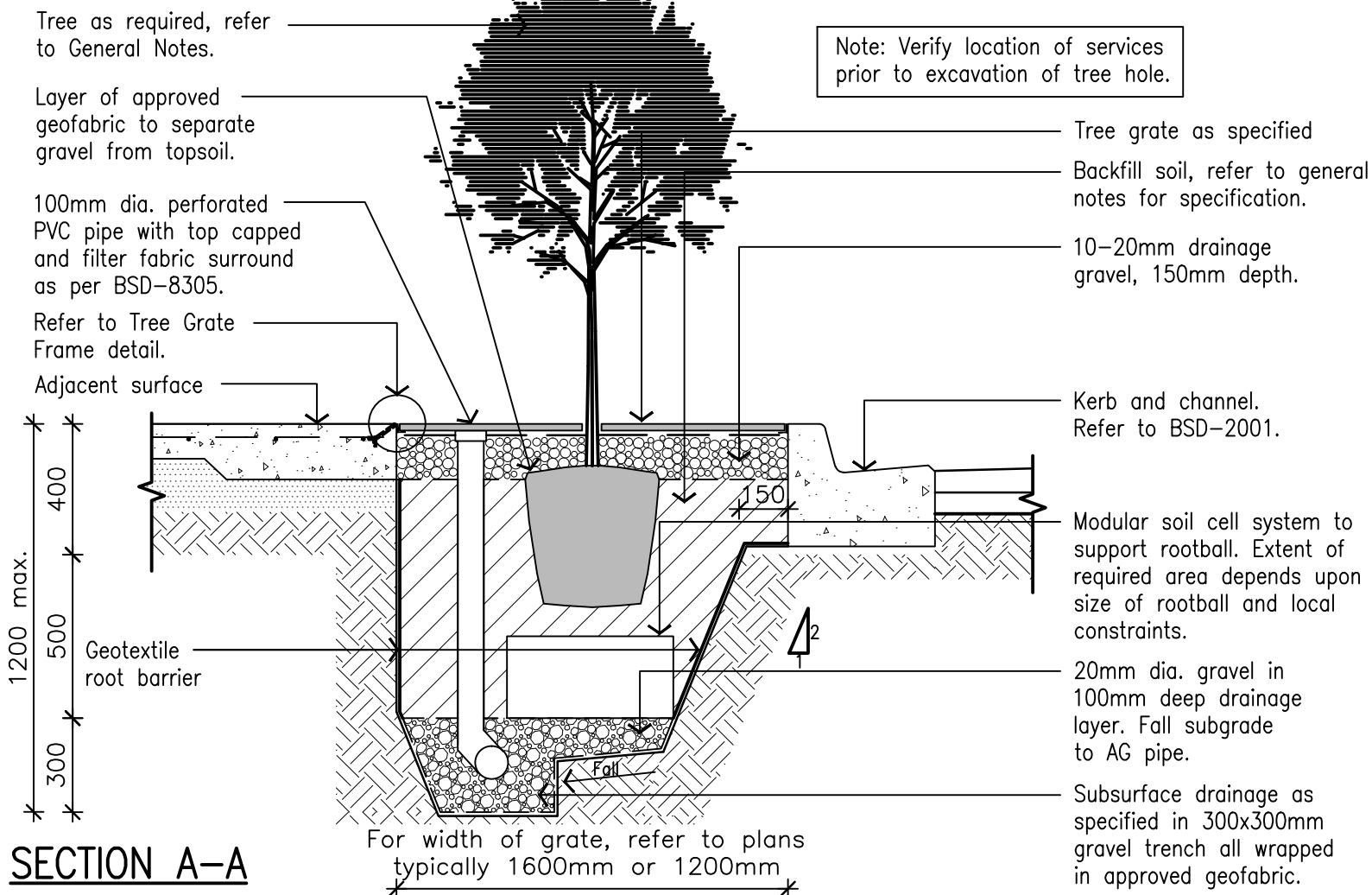


					DRAWING AUTHORISED FOR PUBLICATION B. BALL SIGNATURE ON ORIGINAL DATED 29/6/01 ----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED L. PLANT SIGNATURE ON ORIGINAL DATED 27/6/01 ----- SENIOR PROGRAM OFFICER - LANDSCAPE AMENITY	DESIGN	Std Dwgs WG	DATE	APRIL '01		BRISBANE CITY COUNCIL STANDARD DRAWING		
						DRAWN	CPO - P&D	DATE	APRIL '01		SCALE NOT TO SCALE		
						CHECKED	K. FOSTER	DATE	MAY '01		TREE PLANTING WITHIN TURF AREAS TO MEDIANS		
						DRAWING FILENAME	BSD-9005 (A) Tree planting within turf areas to medians.dwg				Dwg No. BSD-9005		
A	Drawing Converted from UMS Series April 2014		APR '14	APR '14	APR '14	ASSOCIATED PLANS	SUPERSEDES UMS-514				ORIGINAL SIZE A3		REVISION A
ISSUE	AMENDMENT		DRAWN DATE	CHK'D DATE	APPR'D DATE								

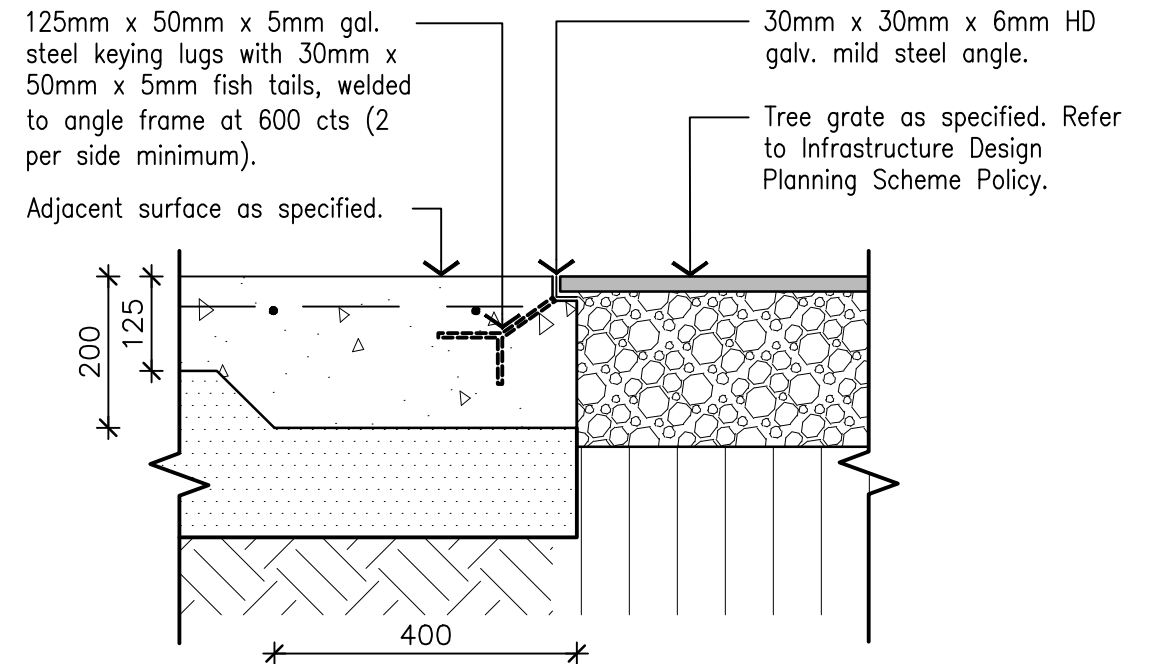
					<div>DRAWING AUTHORISED FOR PUBLICATION B. BALL SIGNATURE ON ORIGINAL DATED 29/6/01 ----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED L. PLANT SIGNATURE ON ORIGINAL DATED 27/6/01 ----- SENIOR PROGRAM OFFICER - LANDSCAPE AMENITY</div>	DESIGN	Std Dwgs WG	DATE	APRIL '01		BRISBANE CITY COUNCIL STANDARD DRAWING			
						DRAWN	CPO - P&D	DATE	APRIL '01		<div>TREE AND GARDEN PLANTING TO MEDIANS</div>	SCALE NOT TO SCALE		
						CHECKED	K. FOSTER	DATE	MAY '01			DWG No.	BSD-9006	
						DRAWING FILENAME	BSD-9006 (A) Tree and garden planting to medians.dwg						ORIGINAL SIZE	REVISION
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-515						A3	A
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE										



PLAN



SECTION A-A



TREE GRATE FRAME DETAIL

GENERAL NOTES


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

- 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 CEC)
 - 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
- 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.
- Top of rootball to be equal to top of backfill soil.

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

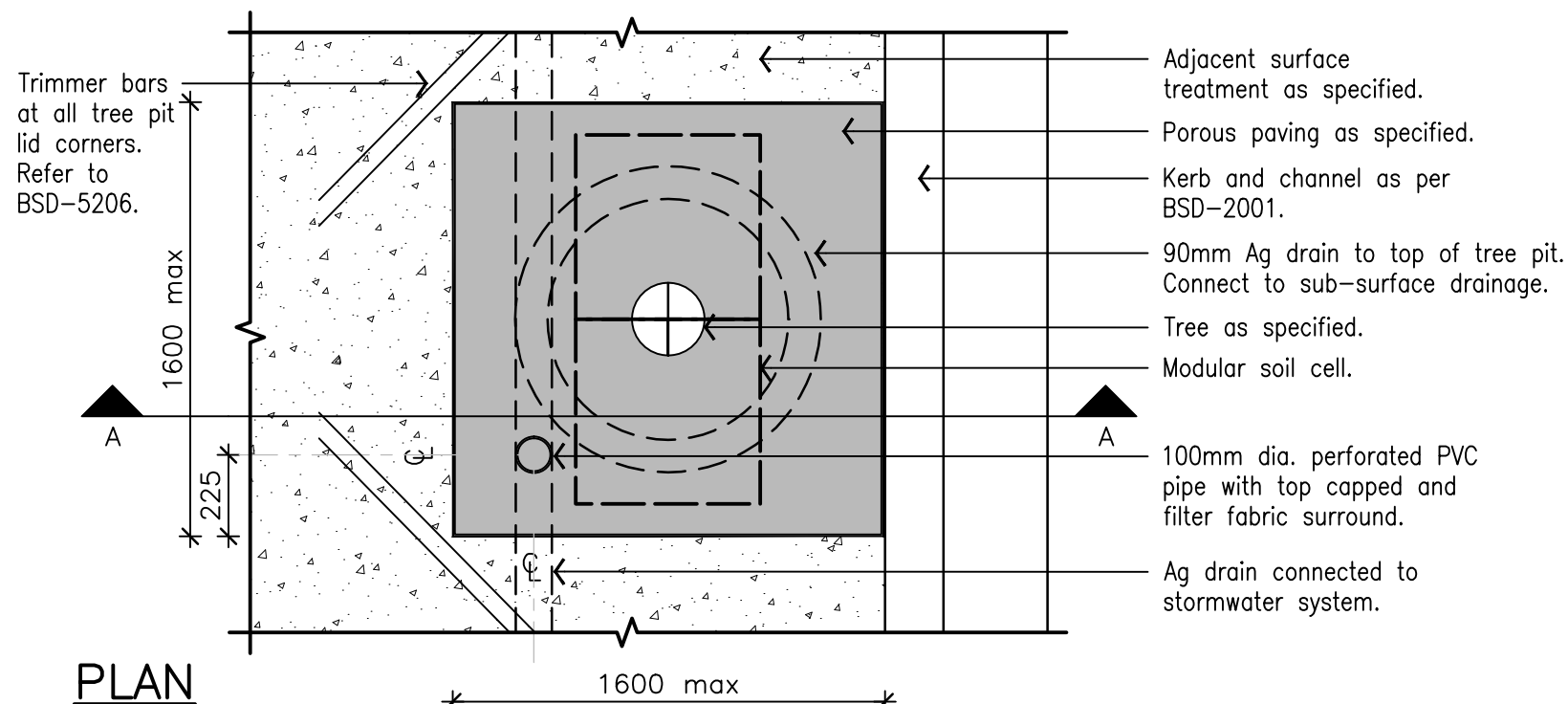
NAME: B. BALAKUMAR RPEQ: 3963

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

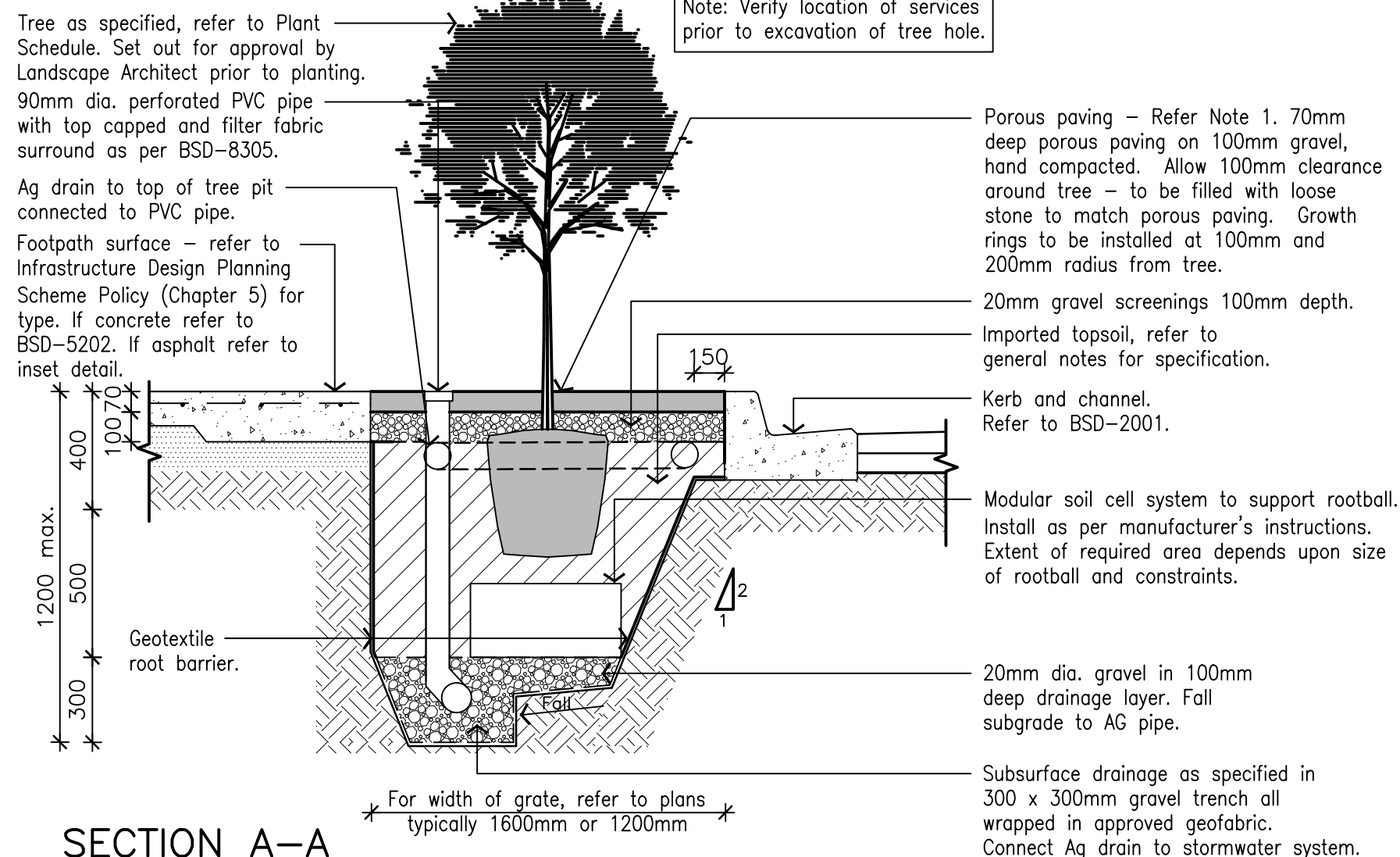
					<div>DRAWING AUTHORISED FOR PUBLICATION</div> <div>P.COTTON SIGNATURE ON ORIGINAL</div> <div>-----</div> <div>ASSET ENGINEERING MANAGER</div> <div>STRATEGIC ASSET MANAGEMENT</div> <div>-----</div> <div>DESIGN APPROVED</div> <div>V. MARTIN SIGNATURE ON ORIGINAL</div> <div>DATED 06/9/10</div> <div>-----</div> <div>PRINCIPAL OFFICER</div> <div>URBAN DESIGN UNIT</div>	DESIGN	Std Dwgs WG	DATE	JUN '10		BRISBANE CITY COUNCIL STANDARD DRAWING			
						DRAWN	CPO - P&D	DATE	JUN '10		TREE PIT WITH GRATE	SCALE NOT TO SCALE		
						CHECKED	D. K.	DATE	JUN '10			DWG No.	BSD-9008	
B	Updated Superseded Reference in Notes 1, 3, 7 & Dwg Details	MAY '17	MAY '17	MAY '17		DRAWING FILENAME			BSD-9008 (A) Tree pit with grate.dwg			ORIGINAL SIZE	REVISION	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS			SUPERSEDES UMS-516		A3	B		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE										



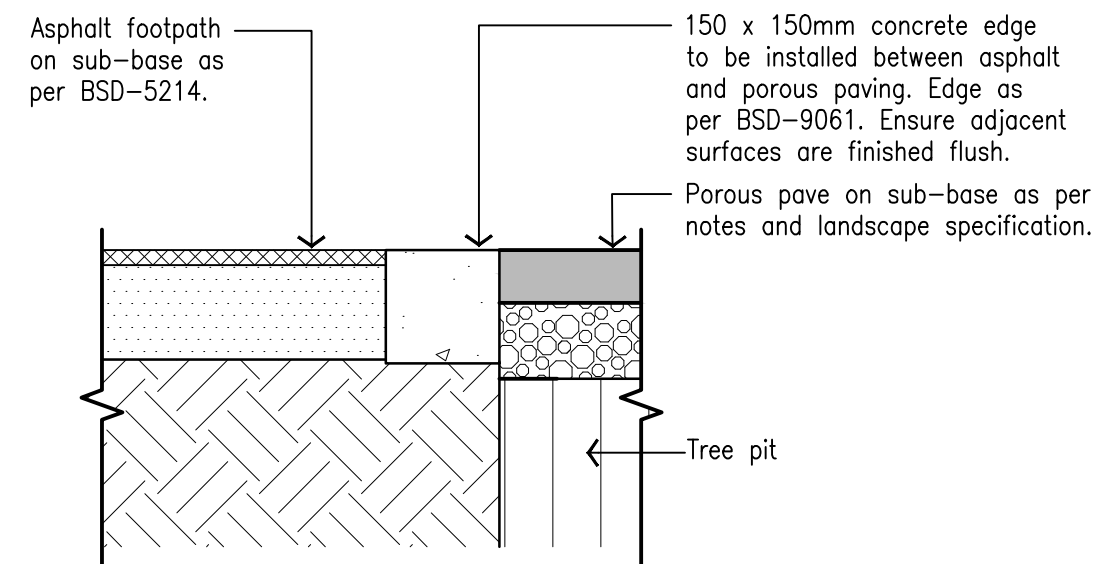
BRISBANE CITY COUNCIL STANDARD DRAWING		SCALE		NOT TO SCALE	
TREE PIT WITH GRATE		DWG No.		BSD-9008	
		ORIGINAL SIZE		REVISION	
		A3		B	



PLAN



SECTION A-A




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 footpath.
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 service.
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.

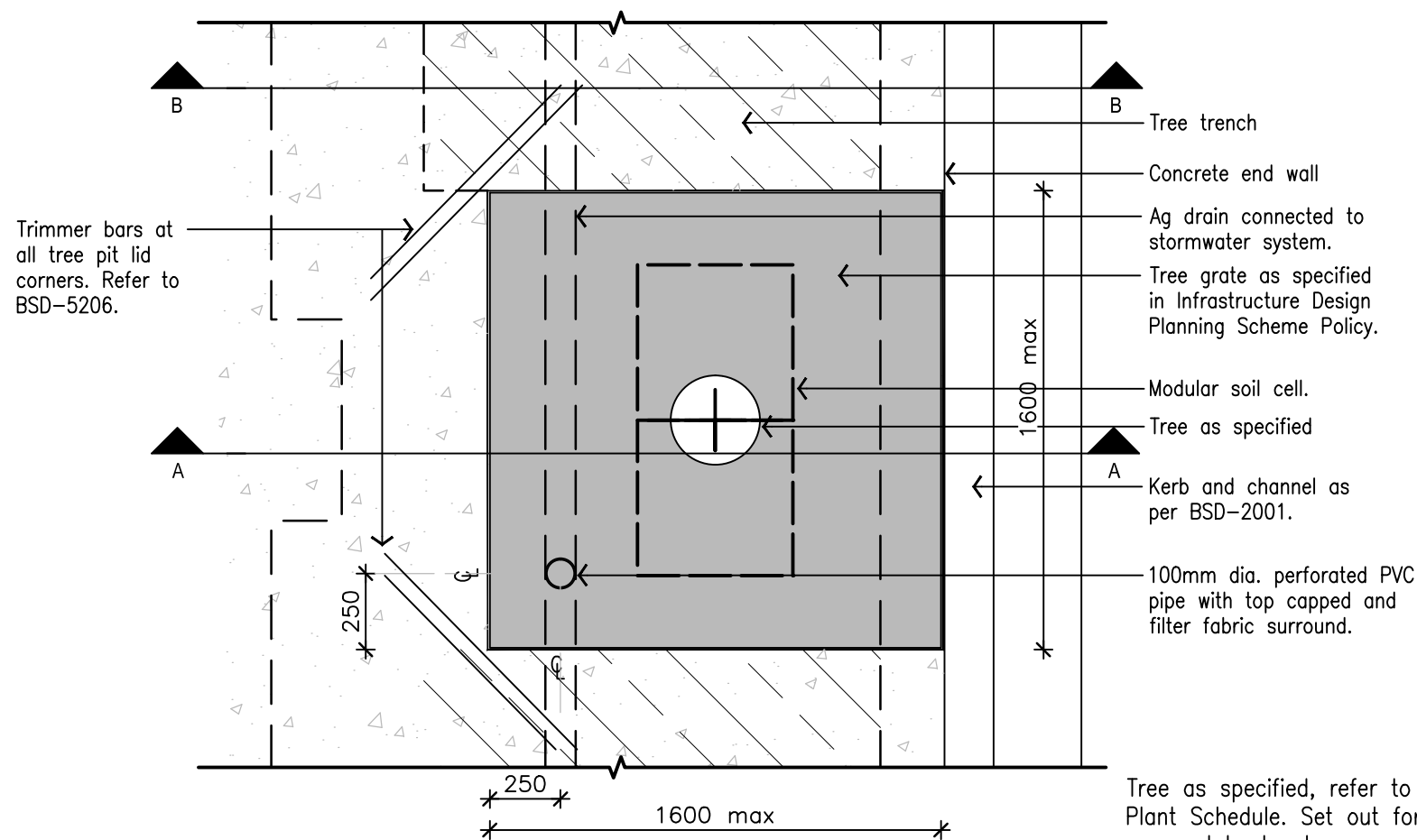
DESIGN REVIEWED AND CERTIFIED FOR ISSUE			
NAME:	B. BALAKUMAR	RPEQ:	3963
SIGNATURE:	SIGNATURE ON ORIGINAL	DATE:	28/07/10

					<div>DRAWING AUTHORISED FOR PUBLICATION P. COTTON SIGNATURE ON ORIGINAL</div> <div>----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT</div> <div>DESIGN APPROVED V. MARTIN SIGNATURE ON ORIGINAL DATED 06/9/10</div> <div>----- PRINCIPAL OFFICER URBAN DESIGN UNIT</div>	DESIGN	Std Dwgs WG	DATE	JUN '10		BRISBANE CITY COUNCIL STANDARD DRAWING		
						DRAWN	CPO - P&D	DATE	JUN '10		TREE WITH POROUS PAVING	SCALE NOT TO SCALE	
B	Superseded Reference in Notes 1 & 3 and Dwg Details Updated	MAY '17	MAY '17	MAY '17		CHECKED	D. K.	DATE	JUN '10			DWG No.	BSD-9009
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-9009 (A) Tree with porous paving.dwg				ORIGINAL SIZE	REVISION	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS-517				A3	B	

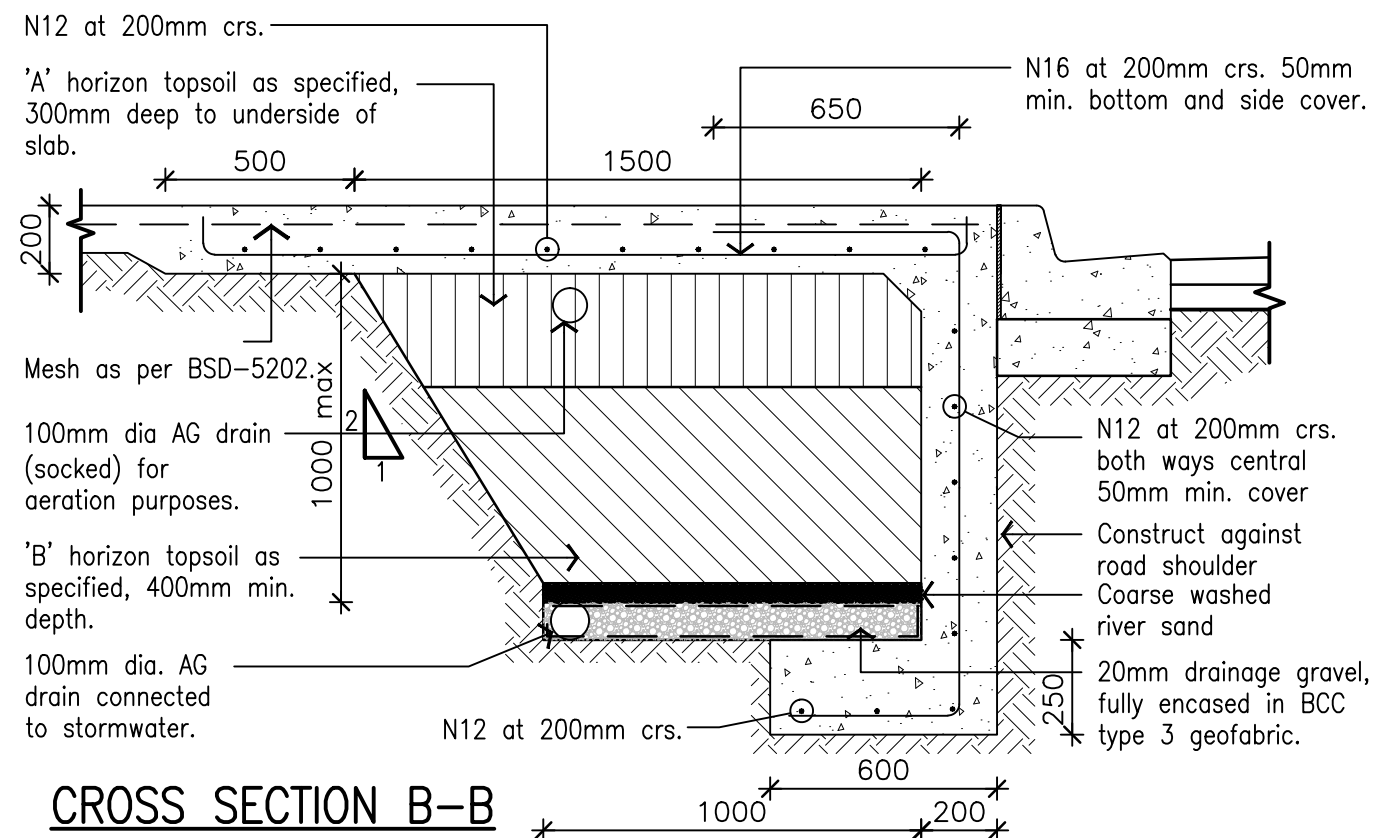


BRISBANE CITY COUNCIL STANDARD DRAWING	
TREE WITH POROUS PAVING	
SCALE	NOT TO SCALE
DWG No.	BSD-9009
ORIGINAL SIZE	A3
REVISION	B

					<div>DRAWING AUTHORISED FOR PUBLICATION P. COTTON SIGNATURE ON ORIGINAL</div> <div>----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT</div> <div>DESIGN APPROVED V. MARTIN SIGNATURE ON ORIGINAL DATED 06/9/10</div> <div>----- PRINCIPAL OFFICER URBAN DESIGN UNIT</div>	DESIGN	Std Dwgs WG	DATE	JUN '10		BRISBANE CITY COUNCIL STANDARD DRAWING			
						DRAWN	CP0 – P&D	DATE	JUN '10		SCALE NOT TO SCALE			
						CHECKED	D. K.	DATE	JUN '10		DWG No.	BSD–9010		
B	Updated Superseded Reference in Drawing Details	MAY '17	MAY '17	MAY '17		DRAWING FILENAME	BSD-9010 (A) Tree trench - Type 1 suspended slab.dwg							
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-518-1				ORIGINAL SIZE	REVISION		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE					A3	B				



PLAN



CROSS SECTION B-B

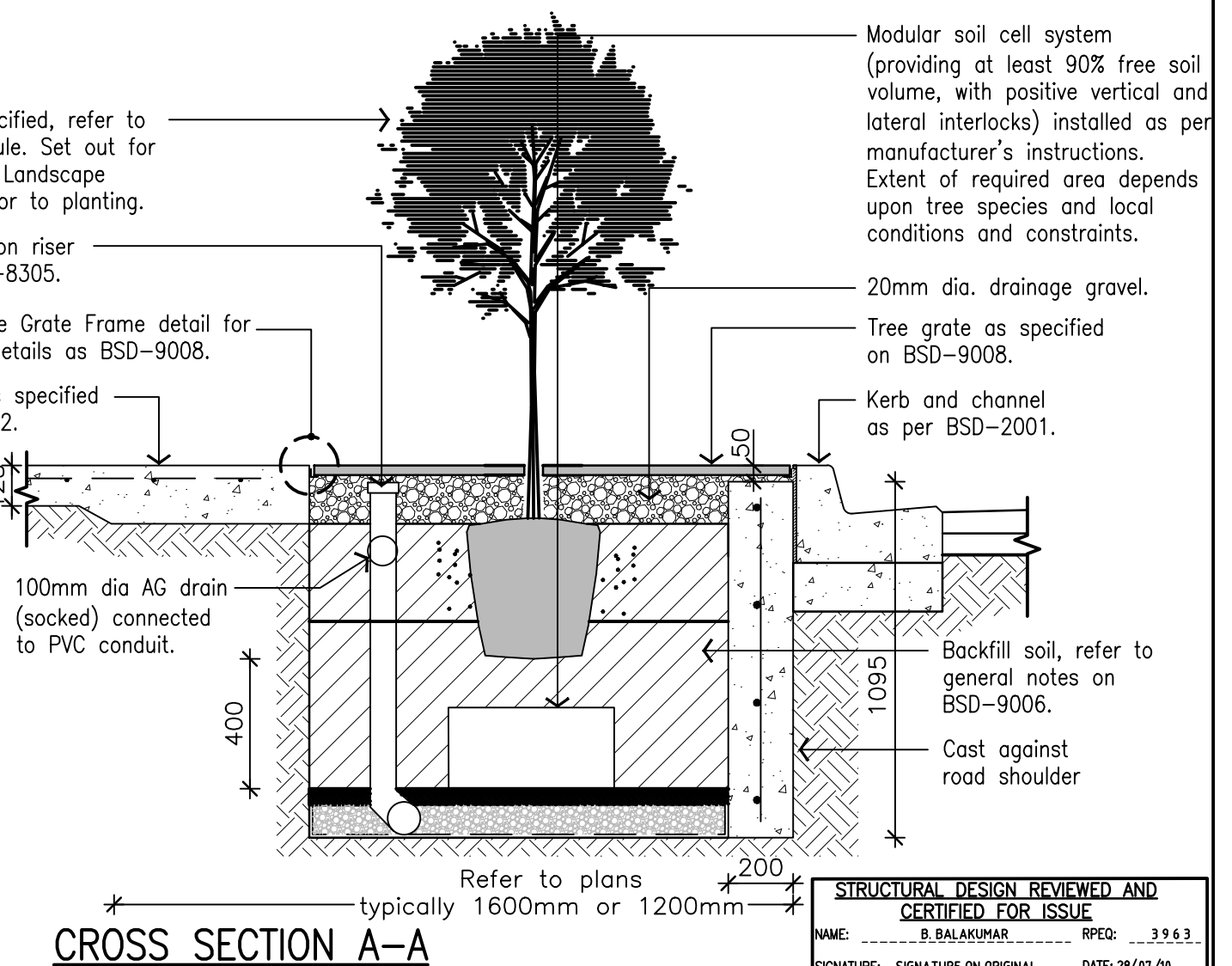
Tree as specified, refer to Plant Schedule. Set out for approval by Landscape Architect prior to planting.

PVC inspection riser as per BSD-8305.

Refer to Tree Grate Frame detail for connection details as BSD-9008.

Pavement as specified on BSD-5202.

1200mm max. or 1.5 x depth of rootball



CROSS SECTION A-A

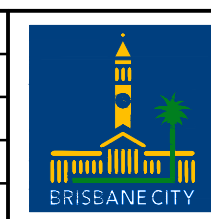
GENERAL NOTES

- Detail to be incorporated in developments where:
 - 2 or more trees are being installed along the road frontage.
 - Services permit/enable the construction of the trench
 - Sub-surface drainage can be connected and drained to the stormwater system.
- Refer to BSD-9008 for details on soil, tree species and tree grate specifications.
- Tree pit to be installed to full depth and width where possible.
- Ensure services have been located prior to excavation.
- Refer to standard specification for landscape topsoil.
- Where possible incorporate WSUD detail to capture street water. Refer to BSD-9031.
- Refer to BSD-5202 for concrete and reinforcing mesh details unless noted otherwise.
- Horizon 'B' topsoil to conform with AS4419 with no more than 30% screened composted organic matter. Hydraulic conductivity 15-30cm/hr and pH 5-6.5.
- 1.2m road width needs to be barricaded off to traffic for a minimum of 7 days after casting of concrete wall in tree trench.

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
B	Updated Superseded Reference in Drawing Details	MAY '17	MAY '17	MAY '17
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14

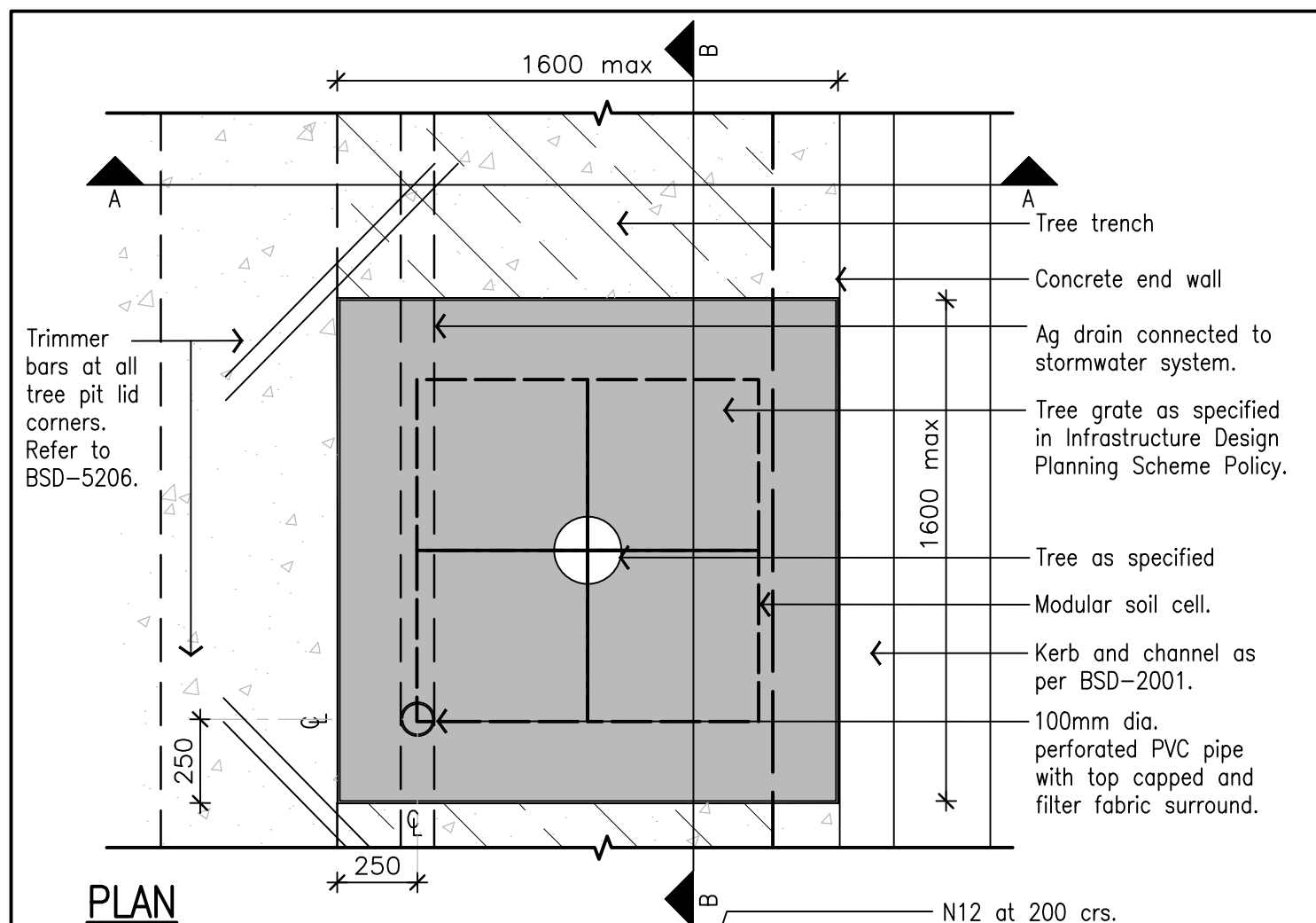
DRAWING AUTHORISED FOR PUBLICATION
P. COTTON SIGNATURE ON ORIGINAL
ASSET ENGINEERING MANAGER
STRATEGIC ASSET MANAGEMENT
DESIGN APPROVED
V. MARTIN SIGNATURE ON ORIGINAL
DATED 06/9/10
PRINCIPAL OFFICER
URBAN DESIGN UNIT

DESIGN	Std Dwg WG	DATE	JUN '10
DRAWN	CPO - P&D	DATE	JUN '10
CHECKED	D. K.	DATE	JUN '10
DRAWING FILENAME	BSD-9011 (A) Tree trench - Type 2 suspended slab.dwg		
ASSOCIATED PLANS	SUPERSEDES UMS-518-2		



BRISBANE CITY COUNCIL STANDARD DRAWING	
TREE TRENCH - TYPE 2 SUSPENDED SLAB	
SCALE	NOT TO SCALE
DWG No.	BSD-9011
ORIGINAL SIZE	A3
REVISION	B

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE	
NAME: B. BALAKUMAR	RPEQ: 3963
SIGNATURE: SIGNATURE ON ORIGINAL	DATE: 28/07/10



GENERAL NOTES

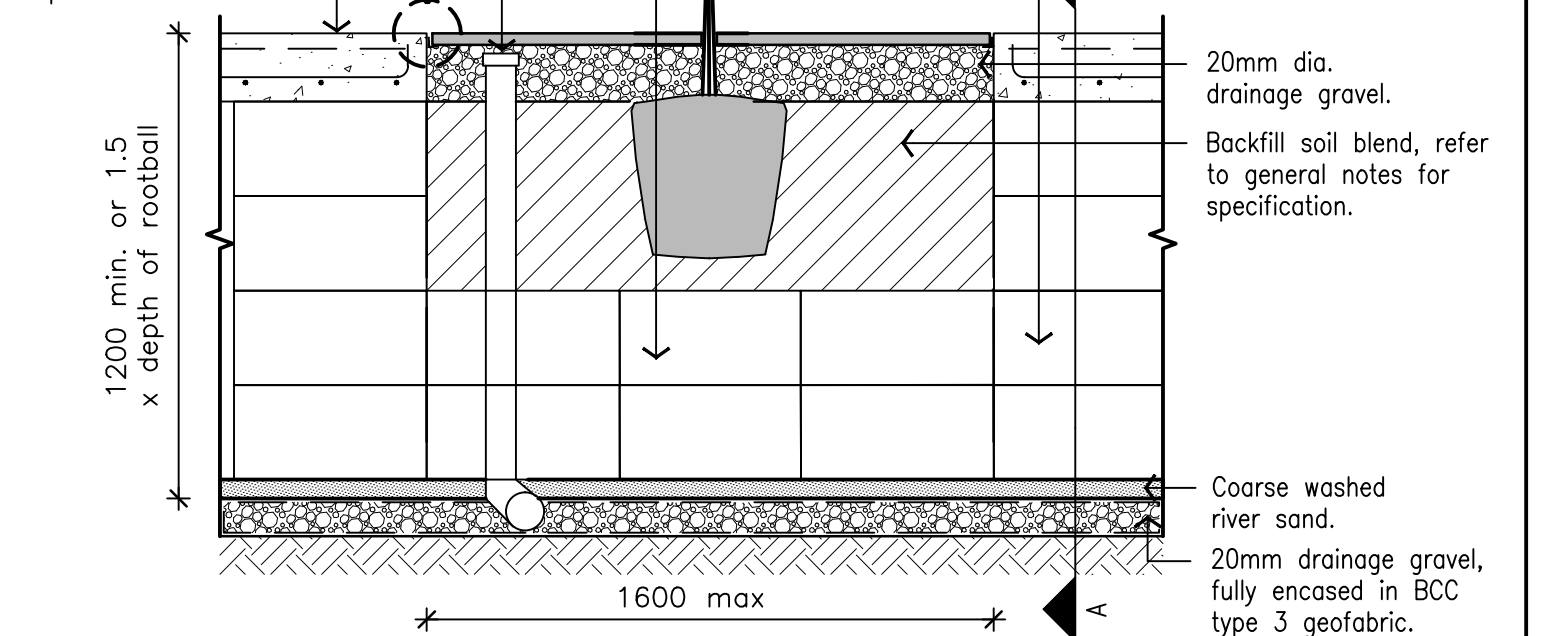
- Detail to be incorporated in developments where:
 - 2 or more trees are being installed along the road frontage.
 - Services permit/enable the construction of the trench
 - Sub-surface drainage can be connected and drained to the stormwater system.
- Refer to BSD-9008 for details on tree species and tree grate specifications.
- Tree pit to be installed to full depth and width where possible.
- Ensure services have been located prior to excavation. If tree location conflicts with service consult with service provider.
- Refer to BSD-9008 for backfill soil blend specification (outside of modular soil cell).
- Where possible incorporate WSUD detail to capture street water. Refer to BSD-9031.
- Refer to BSD-5202 for concrete and reinforcing mesh details unless noted otherwise.
- 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 filler soil as specified by modular cell supplier. Soil is to comply with AS 4419.

Tree species as specified, refer to Infrastructure Design Planning Scheme Policy. Set out for approval by Landscape Architect prior to planting.

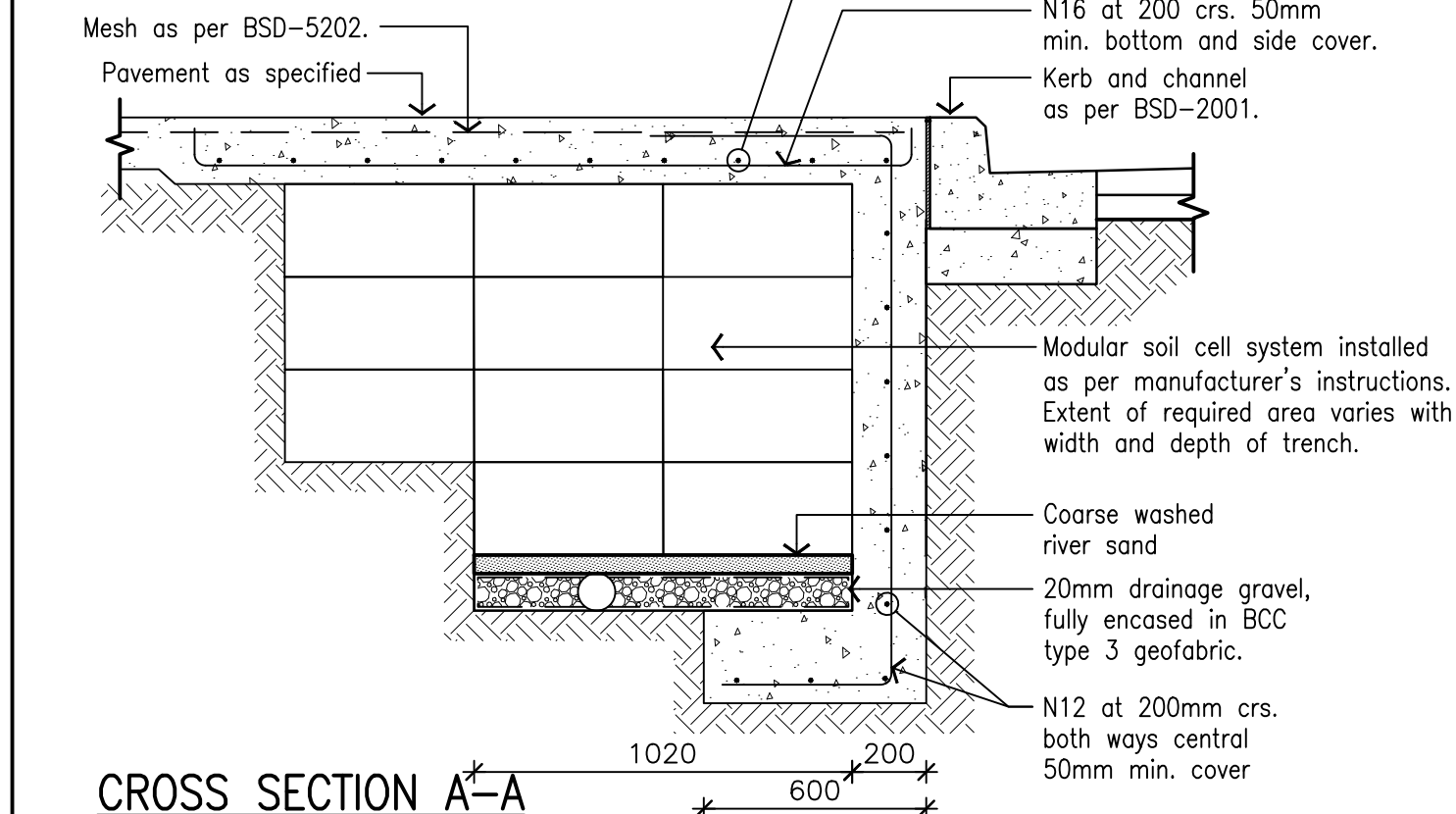
PVC riser as per BSD-8305.


Tree grate as per BSD-9008.

Footpath as per BSD-5202.



CROSS SECTION B-B



					<div>DRAWING AUTHORISED FOR PUBLICATION P. COTTON SIGNATURE ON ORIGINAL ----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT ----- DESIGN APPROVED V. MARTIN SIGNATURE ON ORIGINAL DATED 06/9/10 ----- PRINCIPAL OFFICER URBAN DESIGN UNIT</div>	DESIGN	Std Dwgs WG	DATE	JUN '10		BRISBANE CITY COUNCIL STANDARD DRAWING	
						DRAWN	CPO - P&D	DATE	JUN '10		SCALE NOT TO SCALE	
						CHECKED	D. K.	DATE	JUN '10		DWG No. BSD-9012	
B	Updated Superseded Reference in Drawing details	MAY '17	MAY '17	MAY '17		DRAWING FILENAME	BSD-9012 (A) Tree trench - Type 3 structural cells.dwg				TREE TRENCH - TYPE 3 STRUCTURAL CELLS	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-518-3				ORIGINAL SIZE A3	REVISION A
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE								

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 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 HOLLOWES 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 EXTRANEIOUS MATTER SUCH 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.

FERTILISER

- 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 FIRING 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.

TURF SPECIES

- 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

					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q: 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING			
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04 -----	DRAWN	CPO - P&D	DATE	OCT '13		SCALE AS SHOWN			
						CHECKED	UMD - E&P & IMB	DATE	OCT '13		DWG No. BSD-9051			
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-9051 (A) Planting - General notes - Sheet 1 of 2.dwg				ORIGINAL SIZE			
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS-791				REVISION			
					PRICIPAL PROGRAM OFFICER PARKS						PLANTING GENERAL NOTES SHEET 1 OF 2		A3	A

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 HOLLOWES.
 - 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

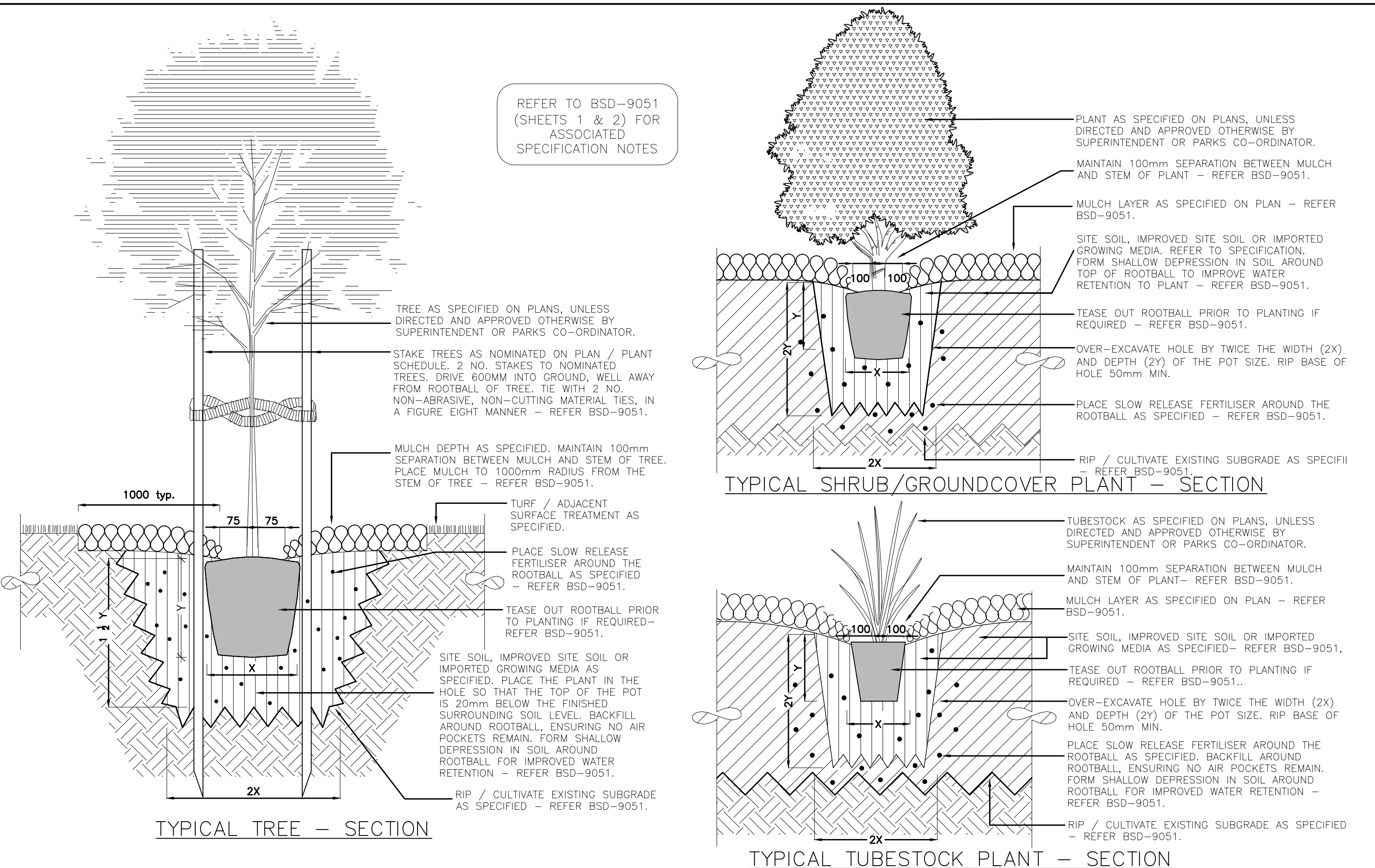
- PLANTING: THOROUGHLY WATER THE PLANTS BEFORE PLANTING, IMMEDIATELY AFTER PLANTING, AND AS REQUIRED TO MAINTAIN GROWTH RATES FREE OF STRESS. ABIDE BY ALL WATER RESTRICTIONS IMPOSED BY BRISBANE CITY COUNCIL DURING CONSTRUCTION WORKS AND MAINTENANCE PERIOD.
- TURFING: WATER TO BE NON-POTABLE WATER FROM 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

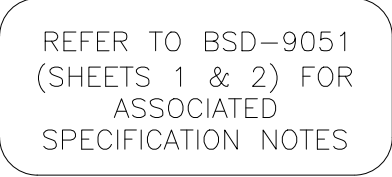
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 ----- MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q: 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING		
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04 -----	DRAWN	CPO - P&D	DATE	OCT '13		PLANTING GENERAL NOTES SHEET 2 OF 2	SCALE AS SHOWN	
						CHECKED	UMD - E&P & IMB	DATE	OCT '13			Dwg No.	BSD-9051
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-9051 (A) Planting - General notes - Sheet 2 of 2.dwg				ORIGINAL SIZE	REVISION	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-791				A3	A	


- 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'.
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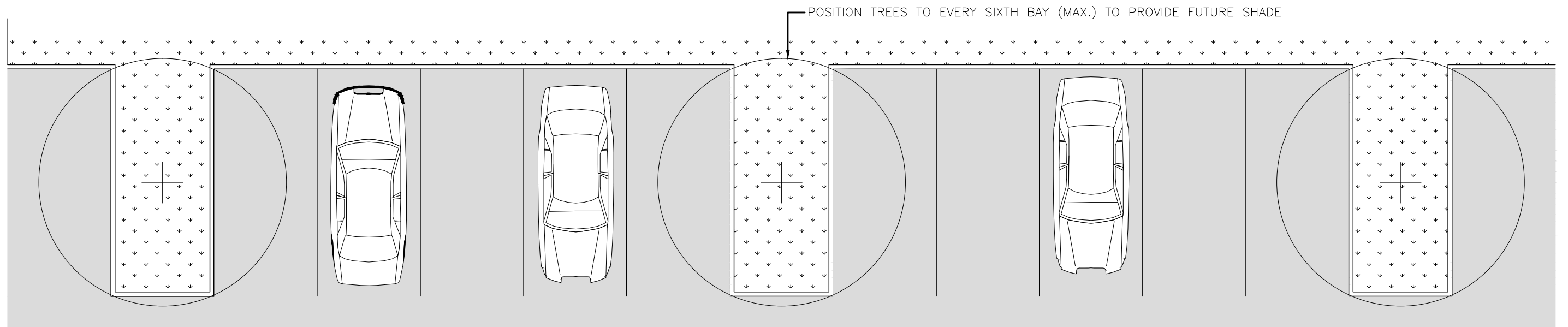
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						DRAWN	CPO - P&D	DATE	OCT '13		PLANTING – PLANTING MEDIA PROFILES (TURF & GARDEN)	SCALE AS SHOWN		
						CHECKED	UMD - E&P & IMB	DATE	OCT '13			DWG No.	BSD-9052	
						DRAWING FILENAME	BSD-9052 (A) Planting - Planting media profiles (turf and garden).dwg					ORIGINAL SIZE	REVISION	
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04 PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-792					A3	A	



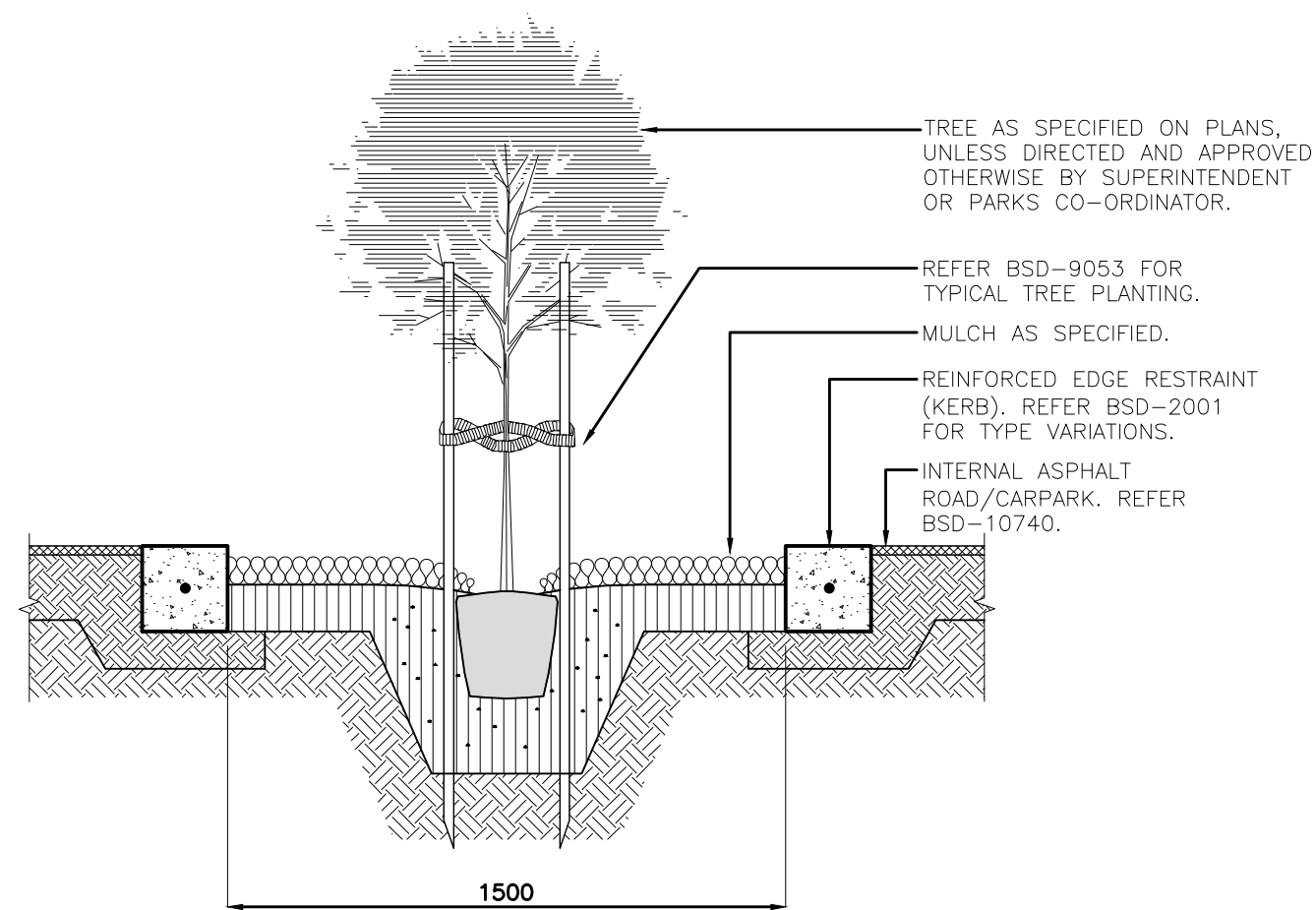
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						DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWN	CPO - P&D	DATE	OCT '13		<div>PLANTING – TYPICAL TREE, SHRUB & TUBESTOCK</div>	SCALE 1:10		
							CHECKED	UMD - E&P & IMB	DATE	OCT '13			DWG No. BSD-9053		
A	Drawing Converted From UMS Series April 2014			APR '14	APR '14	APR '14	DRAWING FILENAME	BSD-9053 (A) Planting - Typical tree, shrub & tubestock.dwg					ORIGINAL SIZE A3	REVISION A	
ISSUE	AMENDMENT			DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-791						



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						CHECKED	UMD - E&P & IMB	DATE	OCT '13			DWG No. BSD-9054	
A	Drawing Converted From UMS Series April 2014			APR '14		APR '14	APR '14	DRAWING FILENAME	BSD-9054 (A) Planting - Typical tree, shrub & tubestock on embankment.dwg				ORIGINAL SIZE
ISSUE	AMENDMENT			DRAWN DATE	CHK'D DATE	APPR'D DATE	ASSOCIATED PLANS	SUPERSEDES UMS-791			A3	A	



TYPICAL CARPARK PLANTING LAYOUT – PLAN
SCALE 1:100



TYPICAL TREE PLANTING IN CARPARK – SECTION
SCALE 1:20

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

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GENERAL NOTES & SPECIFICATIONS

- ENSURE EDGING IS LOCATED 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. 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 EQUIVALENT). 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

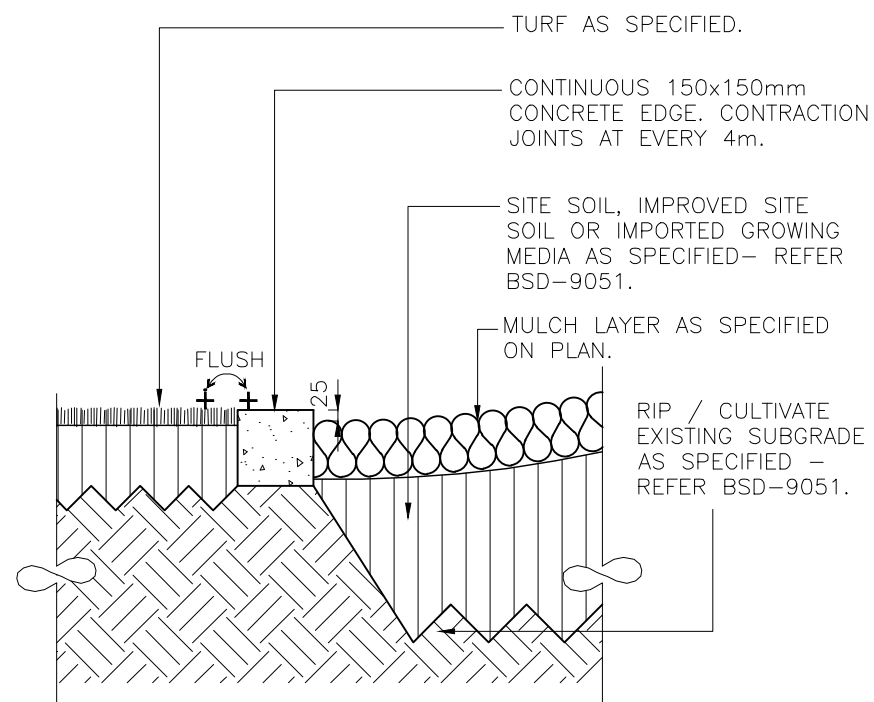
- TIMBER SHOULD BE SOURCED FROM LEGAL AND SUSTAINABLE SOURCES. TIMBERS ARE CONSIDERED ACCEPTABLE WHERE THERE IS A HIGH DEGREE OF CERTAINTY THAT THEY ARE FROM FORESTS, EITHER NATIVE OR PLANTATION, THAT ARE LEGALLY HARVESTED AND SUSTAINABLY MANAGED. THE CONTRACTOR IS TO SUBMIT EVIDENCE THAT THE TIMBER 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 NAPHTHENATE OIL (FOR ABOVE GROUND USE) AND COPPER NAPHTHENATE 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

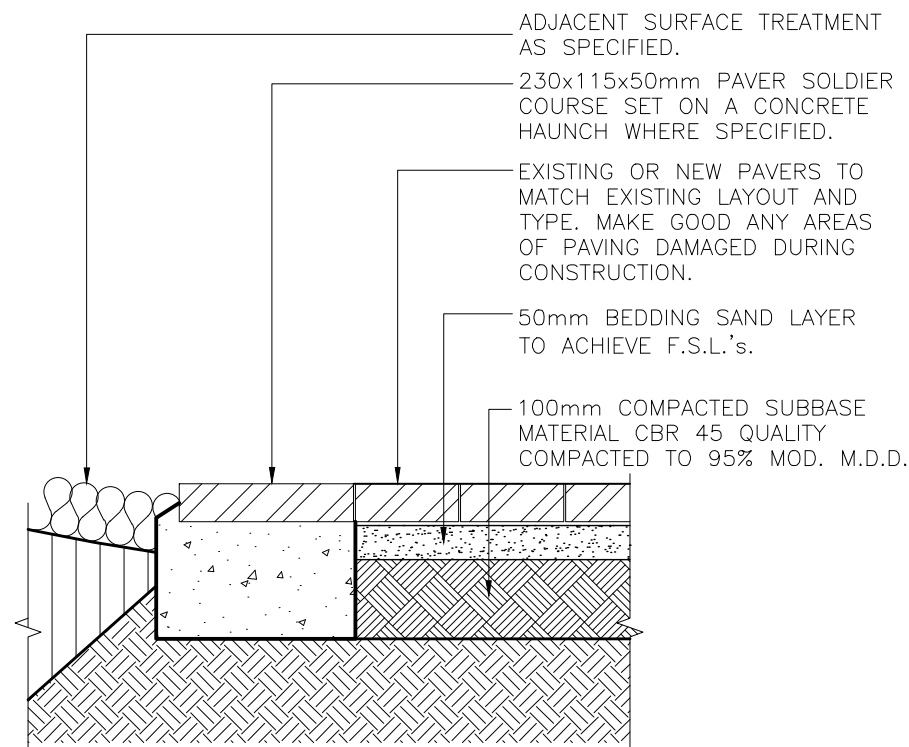
- SECTIONS TO BE FORMED FROM A SINGLE, CONTINUOUSLY EXTRUDED PIECE.
- MATERIAL TO BE UV STABILISED.
- POROSITY TO A MAXIMUM OF 15% OF CROSS SECTION.
- MAXIMUM VOID LENGTH 10% OF LARGEST CROSS SECTION.
- SURFACE FINISH TO BE SMOOTH AND FREE OF ANY MAJOR VOIDS OR VISIBLE DEFECTS.
- SIZE IS INDICATIVE – 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

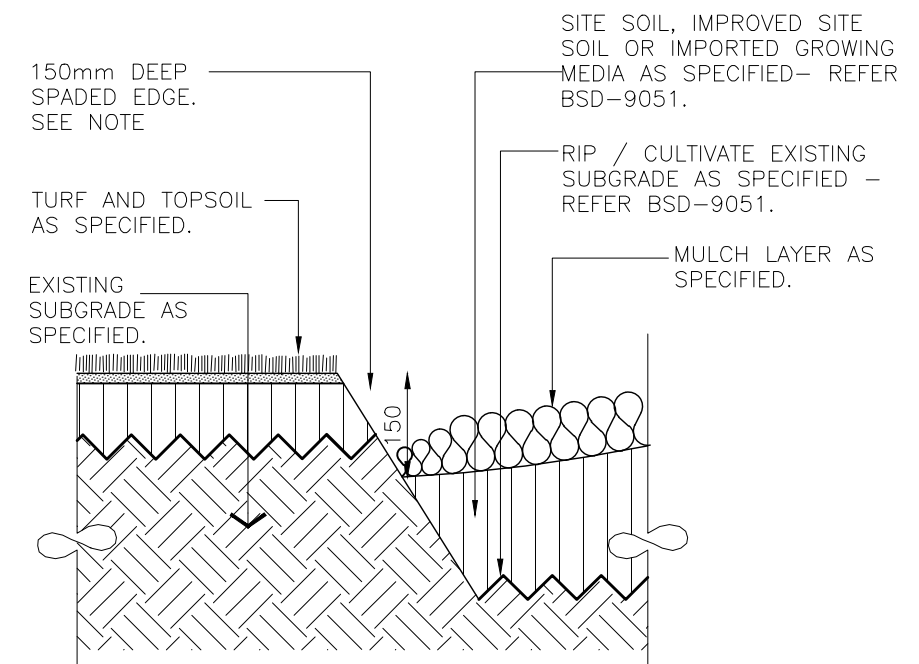
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q. 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING			
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWN	CPO - P&D	DATE	OCT '13		EDGING GENERAL NOTES SHEET 1 OF 3	SCALE AS SHOWN		
						CHECKED	UMD - E&P & IMB	DATE	OCT '13			DWG No.	BSD-9061	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		DRAWING FILENAME	BSD-9061 (A) Edging - General notes - Sheet 1 of 3.dwg					ORIGINAL SIZE	REVISION	
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-794				A3	B		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS									



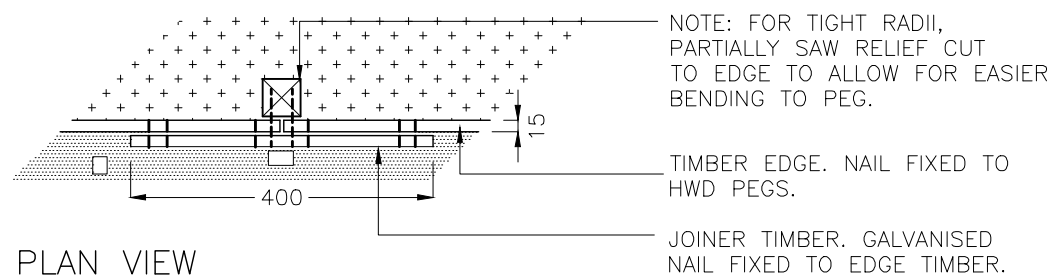
CONCRETE EDGE — SECTION



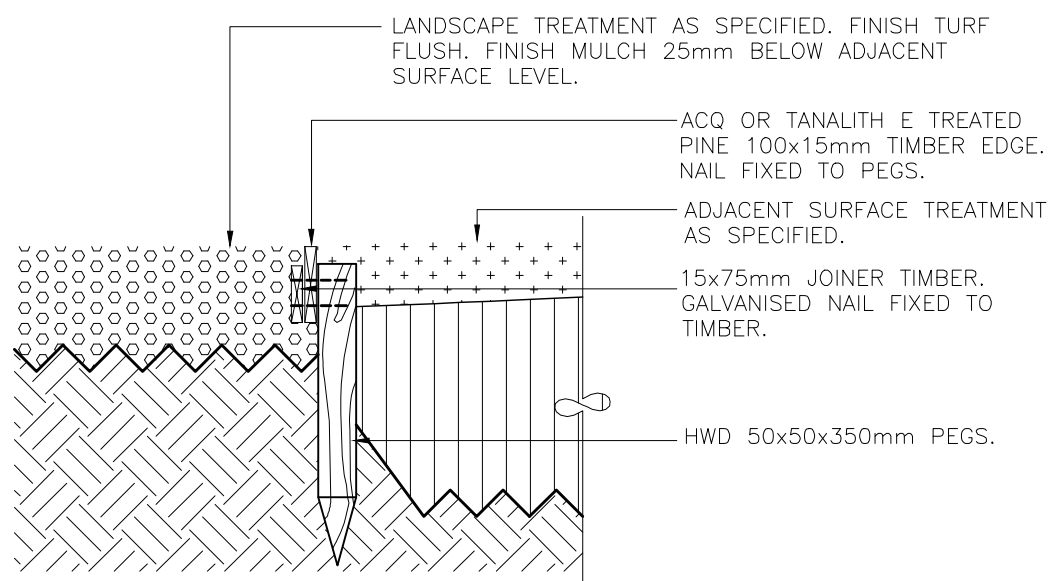
PAVER GARDEN EDGE — SECTION



SPADE CUT GARDEN EDGE — SECTION




PLAN VIEW

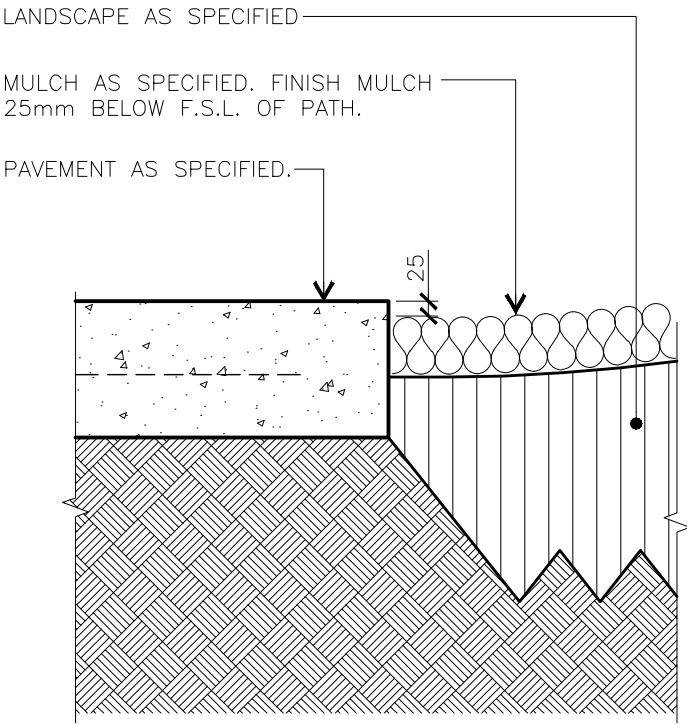


SECTION VIEW

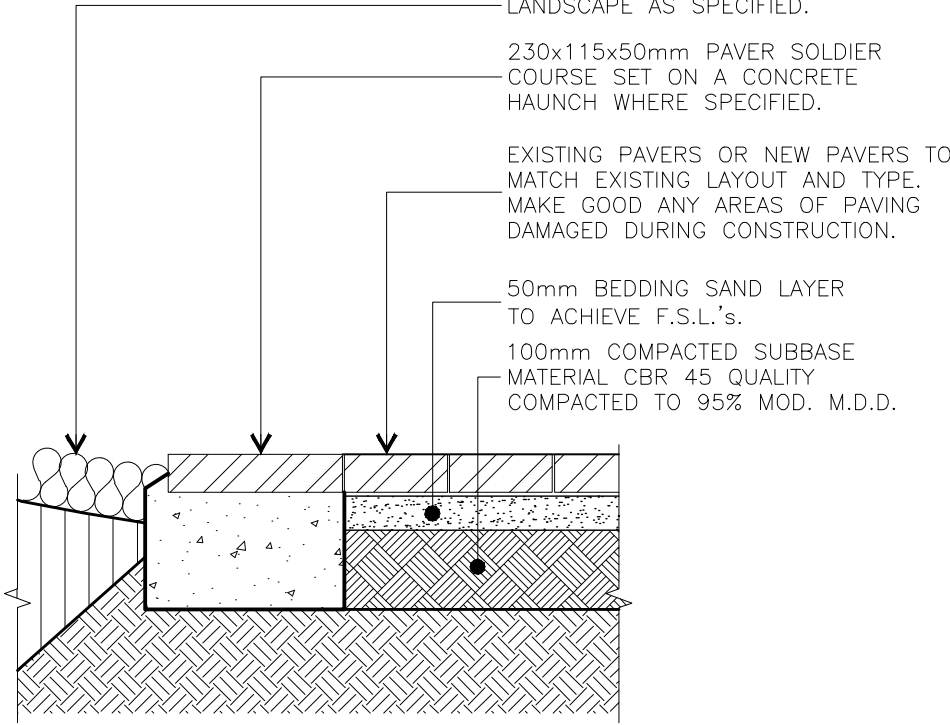
TIMBER GARDEN EDGE — PLAN & SECTION

REFER TO BSD-9061 (SHEETS 1) FOR ASSOCIATED SPECIFICATIONS.

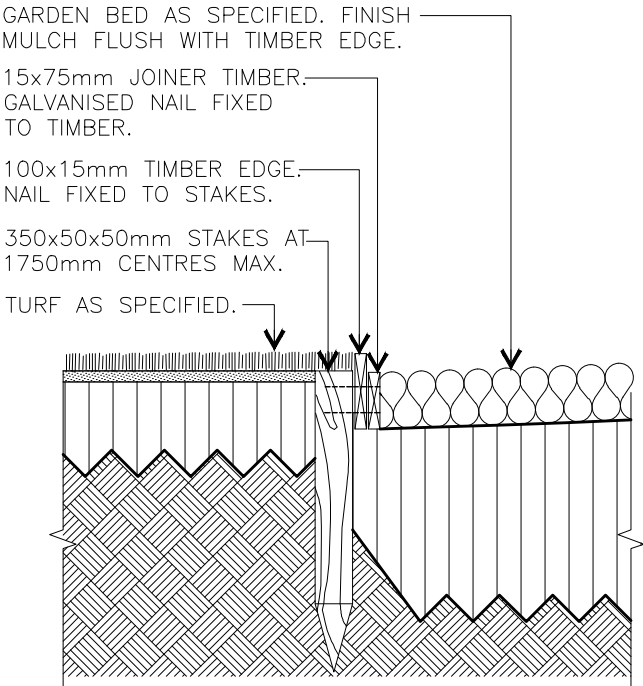
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q: 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING		
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04 ----- PRICIPAL PROGRAM OFFICER PARKS	DRAWN	CPO - P&D	DATE	OCT '13		<div>EDGING EDGING OPTIONS SHEET 2 OF 3</div>	SCALE 1:10	
						CHECKED	UMC - E&P & IMB	DATE	OCT '13			DWG No. BSD-9061	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		DRAWING FILENAME	BSD-9061 (A) Edging - Edging options - Sheet 2 of 3.dwg					ORIGINAL SIZE	REVISION
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-794					A3	B
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE									



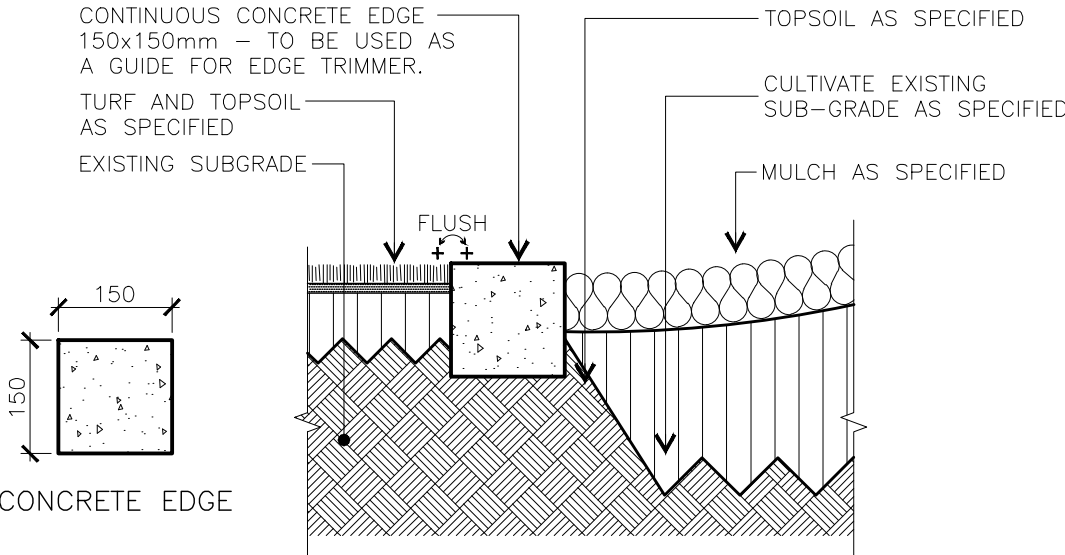
PATH TO GARDEN EDGE – SECTION



PAVER GARDEN EDGE – SECTION



TIMBER EDGE – SECTION



CONCRETE 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.

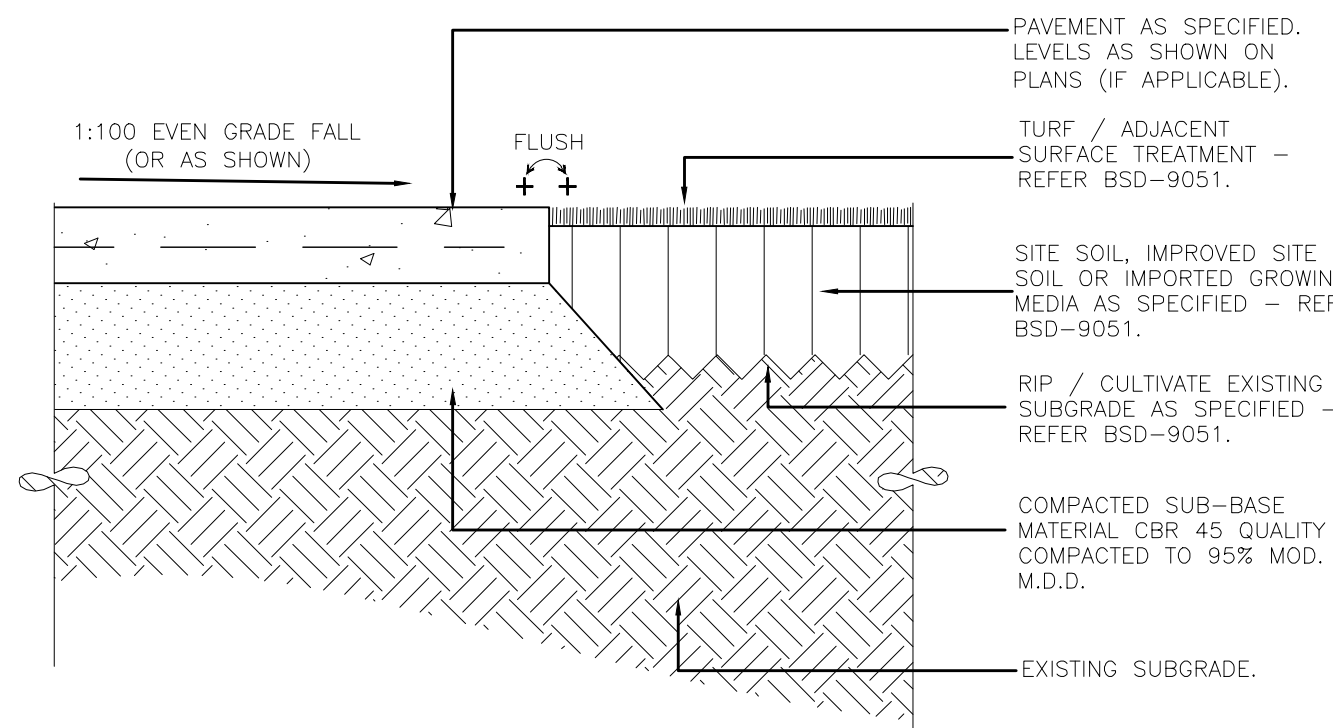
ALL TIMBER TO BE FREE OF KNOTS, SPLINTERS, CRACKS OR ANY MAJOR DEFECT.

LOCATE TIMBER EDGE AS NOTED ON PLAN.

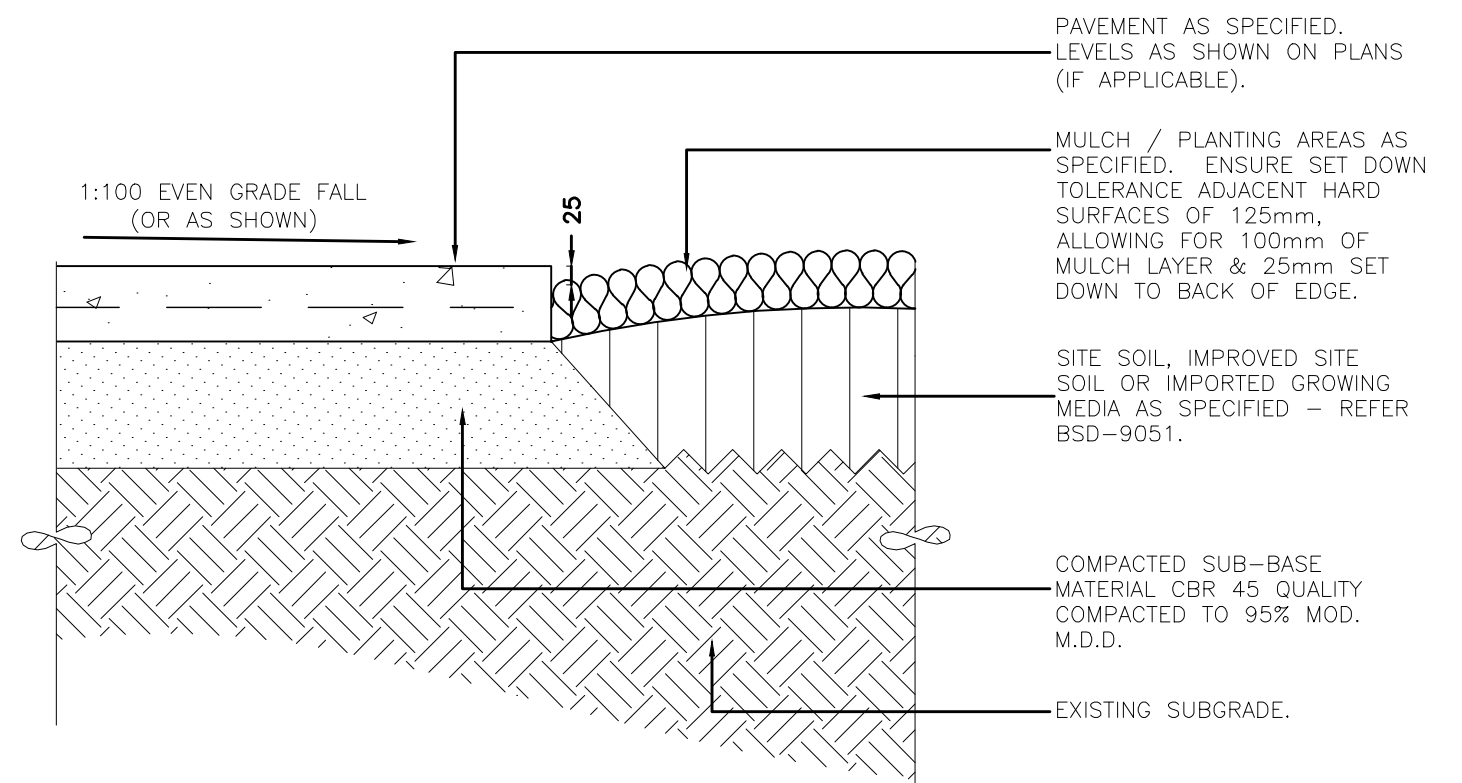
FIX EDGE WITH 2 (MIN.) NAILS PER STAKE.

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

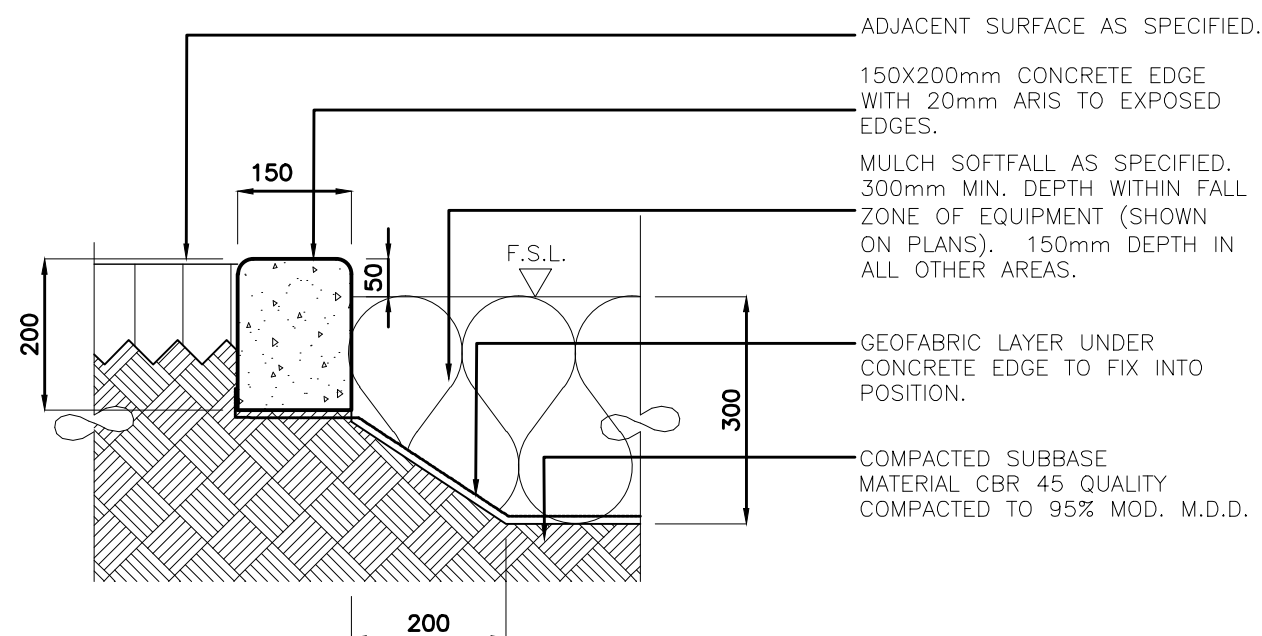
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q: 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING	
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWN	CPO - P&D	DATE	OCT '13		SCALE 1:10	
						CHECKED	UMD - E&P & IMB	DATE	OCT '13		EDGING EDGING OPTIONS SHEET 3 OF 3	
						DRAWING FILENAME	BSD-9061 (A) Edging - Edging options - Sheet 3 of 3.dwg				DWG No. BSD-9061	
						ASSOCIATED PLANS	SUPERSEDES UMS-794				ORIGINAL SIZE A3 REVISION B	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS							
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16								
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14								



TURF TO HARD PAVEMENT – SECTION




GARDEN TO HARD PAVEMENT – SECTION



PLAYGROUND MULCH SOFTFALL TO ADJACENT
SURFACE TREATMENT – SECTION

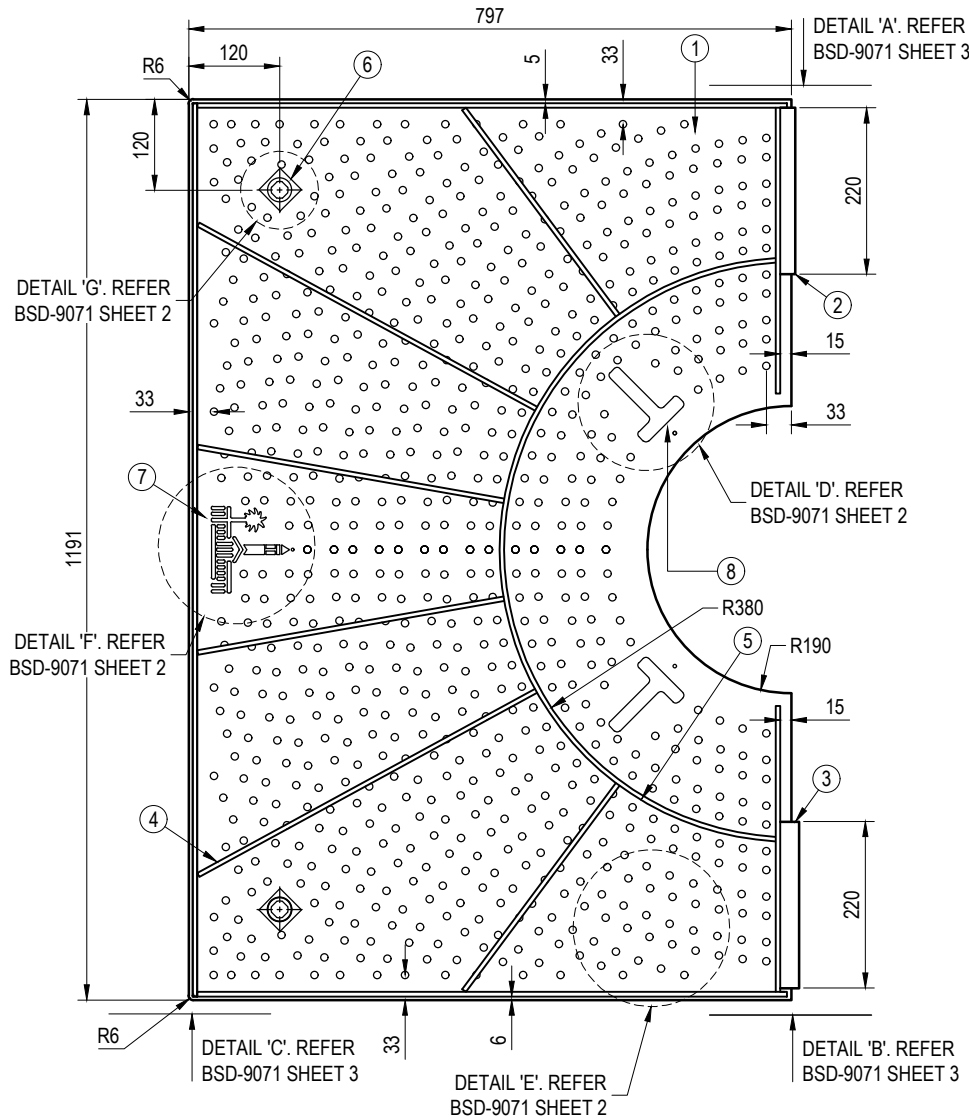
REFER TO BSD-9061
(SHEET 1) FOR
ASSOCIATED
SPECIFICATION

					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q. 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING				
						DRAWN	CPO - P&D	DATE	OCT '13		EDGING TYPICAL INTERFACES	SCALE 1:10			
						CHECKED	UMD - E&P & IMB	DATE	OCT '13			DWG No.	BSD-9062		
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWING FILENAME	BSD-9062 (A) Edging - Typical Interfaces.dwg					ORIGINAL SIZE	REVISION		
						ASSOCIATED PLANS	SUPERSEDES UMS-794					A3	A		
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14		PRICIPAL PROGRAM OFFICER PARKS									
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE											

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

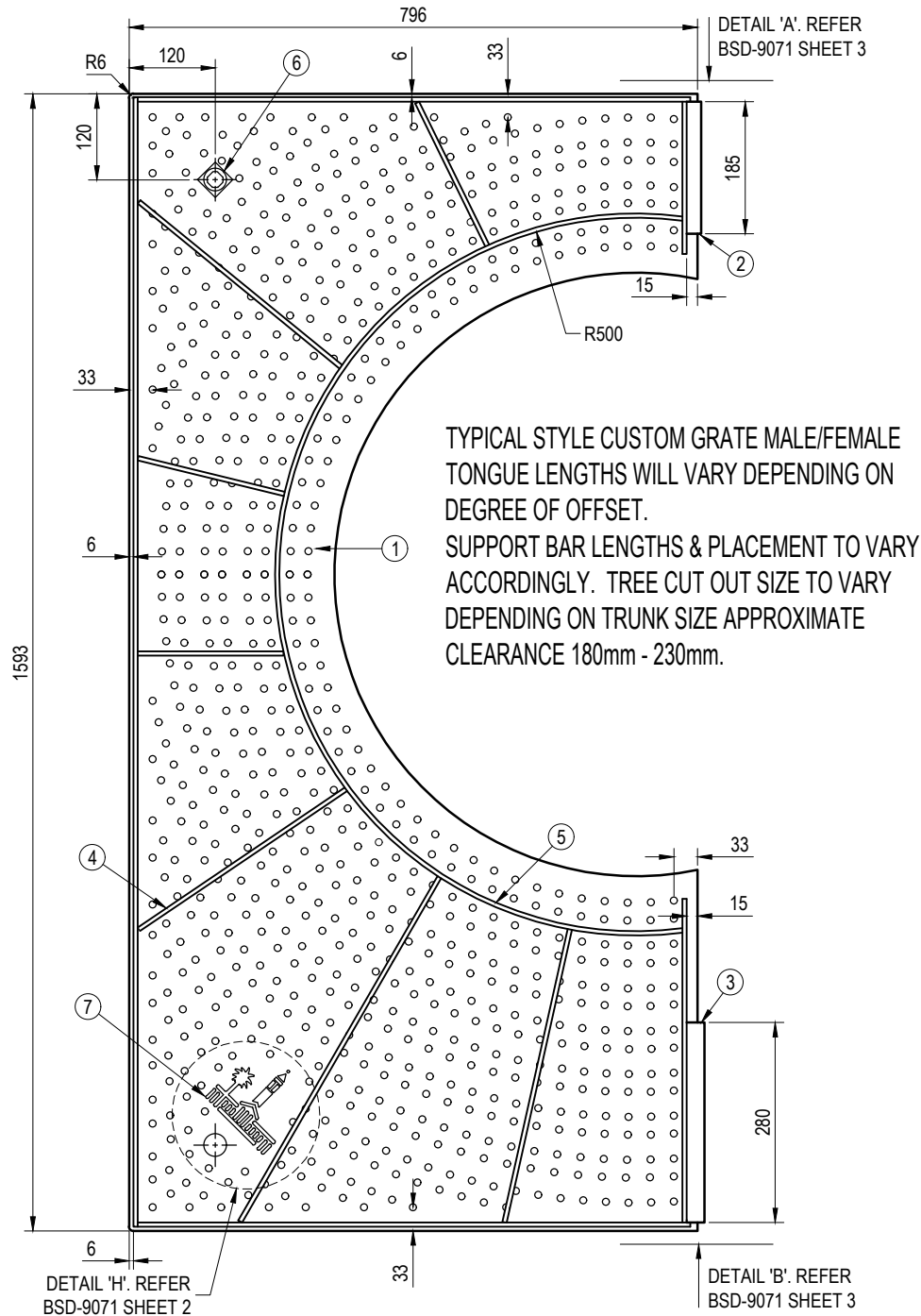
PARTS LIST			
NO	TITLE	MATERIAL	QTY
1	GRATE TOP PLATE	5mm STEEL	1
2	FEMALE TONGUE	20 x 6 FLAT	1
3	MALE TONGUE	25 x 6 FLAT	1
4	SUPPORT BARS	20 x 6 FLAT	12
5	ROLLED RING	20 x 6 FLAT	1
6	CAM LOCK PLATE	3mm STEEL	2
7	COUNCIL LOGO	114 x 107 HIGH	1
8	TREE SPEAR SLOT	LASER CUT	2



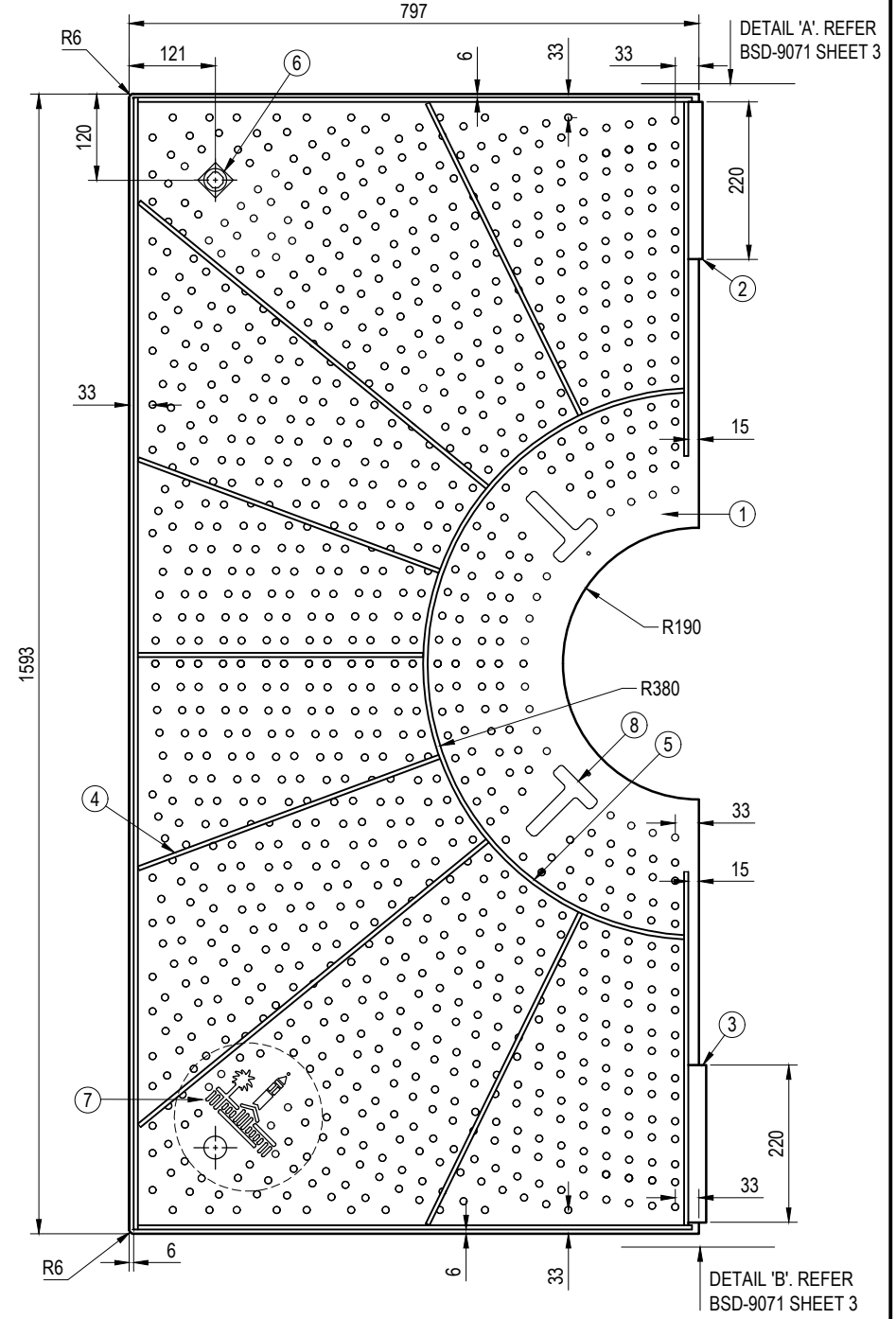
1200 x 1600
PLAN OF HALF GRATE - UNDERSIDE VIEW

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.

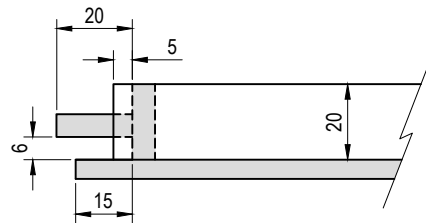


CUSTOM 1600 x 1600
PLAN OF HALF GRATE - UNDERSIDE VIEW

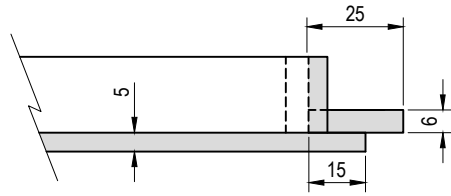


1600 x 1600
PLAN OF HALF GRATE - UNDERSIDE VIEW

					DRAWING AUTHORISED FOR PUBLICATION		DESIGN	Std Dwgs WG	DATE	NOV '10		BRISBANE CITY COUNCIL STANDARD DRAWING		
					I. CONDRIK SIGNATURE ON ORIGINAL 06/2012		DRAWN	CPO - P&D	DATE	NOV '10		SCALE NOT TO SCALE		
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT		CHECKED	D. M.	DATE	DEC '10		DWG No. BSD-9071		
C	General Notes Added, Cross-ref. on Detail Updated, Item 7 Renamed to 'Council Logo'	JAN '19	APR '19	APR '19	DESIGN APPROVED VICKI MARTIN SIGNATURE ON ORIGINAL 17/10/2011		DRAWING FILENAME	BSD-9071 (C) Tree grate - Setout plan - Sheet 1 of 3.dwg				ORIGINAL SIZE A3		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	PRINCIPAL OFFICER URBAN DESIGN UNIT		ASSOCIATED PLANS	SUPERSEDES UMS-519-1				REVISION C		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14										
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE						TREE GRATE SETOUT PLAN SHEET 1 OF 3				

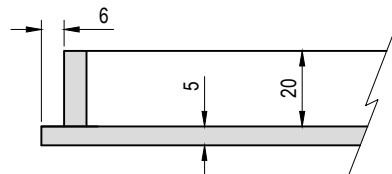


DETAIL A - FEMALE TONGUE
SCALE 1:2

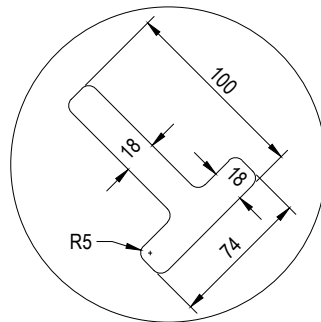


DETAIL B - MALE TONGUE
SCALE 1:2

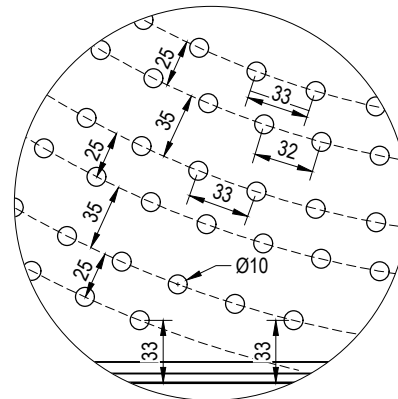
SET BACK 15mm ON FRONT
EDGE ONLY. 6mm BACK ON ALL
OTHER EDGES



DETAIL C - SUPPORT BAR OFF SET
SCALE 1:2



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



DETAIL E
SCALE 1:4

GENERAL NOTES

1. 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

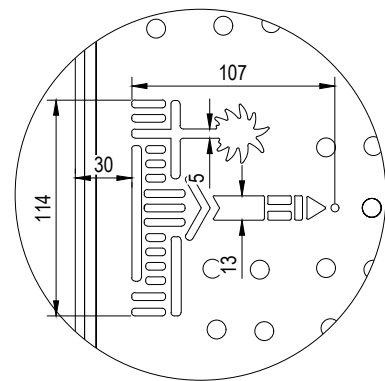
- TC1. TREE GRATE TO BE HOT SPRAYED GALVANISED PRIOR TO POWDER COATING.
TC2. ALL WELDS TO BE MINIMUM 20mm IN LENGTH. ALL CORNERS TO HAVE VERTICAL DOWN WELDS.
TC3. ALL SPLATTER & SLAG TO BE REMOVED PRIOR TO GALVANISING.
TC4. HOLES ARE NOT TO BE WELDED OVER.
TC5. ALL STRUCTURAL WELDS TO AS1554.
TC6. CENTRALISE 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

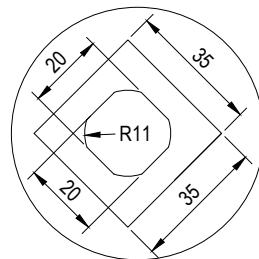
- TH1. LINE OFF SETS ARE STAGGERED BETWEEN 25mm & 35mm. GRATE EDGE TO CENTRE HOLE DISTANCE IS 33mm.
TH2. CENTRE TO CENTRE HOLE DISTANCE IS APPROXIMATELY 32mm.
TH3. DIVIDE HOLES PER LINE BY AMOUNTS OF HOLES NOT BY SET DISTANCES TO ACHIEVE A MORE UNIFORM HOLE PATTERN.
TH4. HOLES TO BE 10mmØ.

INSTALLATION NOTES

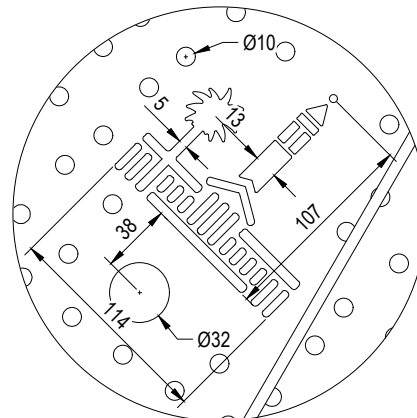
- I1. REFER TO BSD-9008 'TREE PIT WITH GRATE' FOR SUPPORT FRAME AND INSTALLATION.




DETAIL F
SCALE 1:4

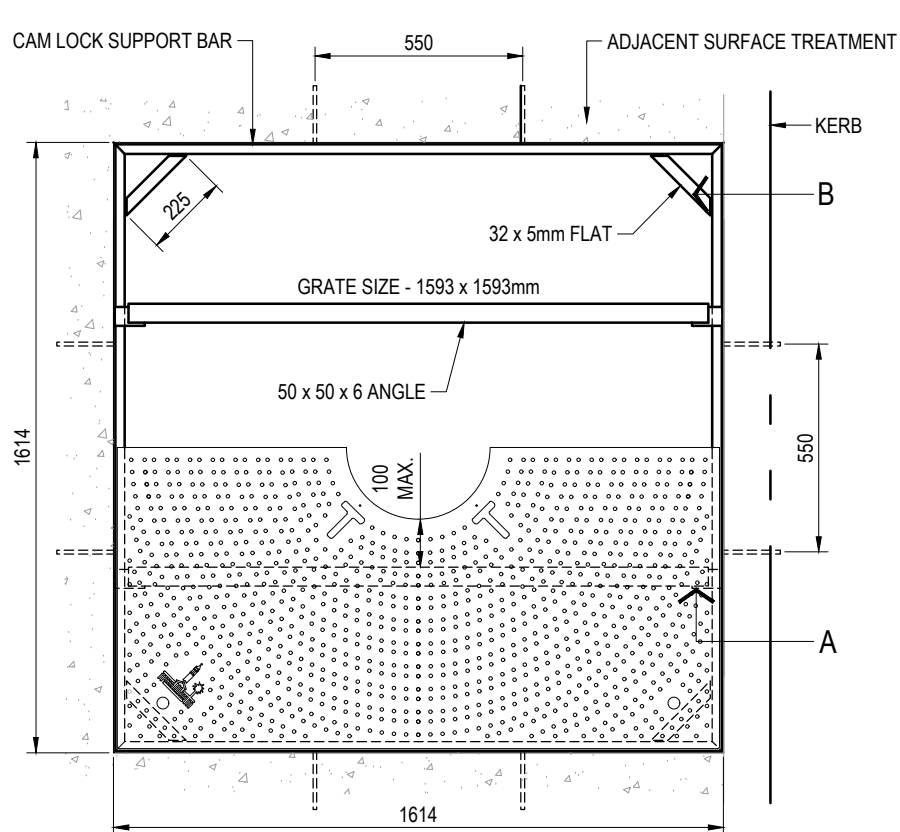


DETAIL G - CAM LOCK PLATE DETAIL
MATERIAL: 3mm STEEL (2 PER TREE HALF)
SCALE 1:4

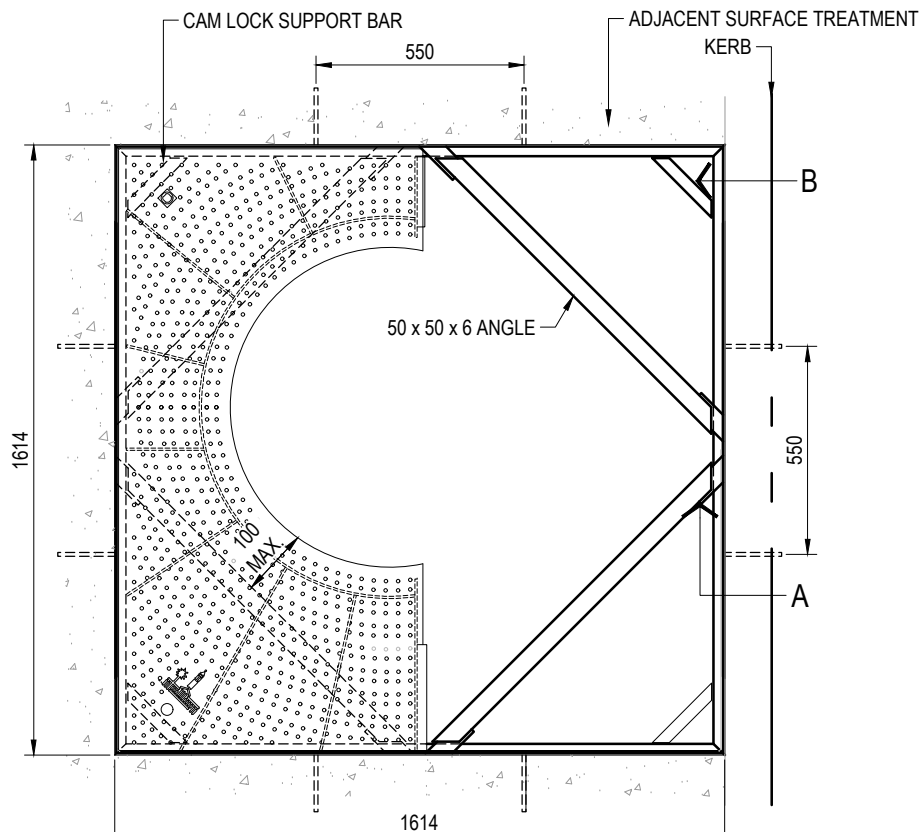


DETAIL H
SCALE 1:4

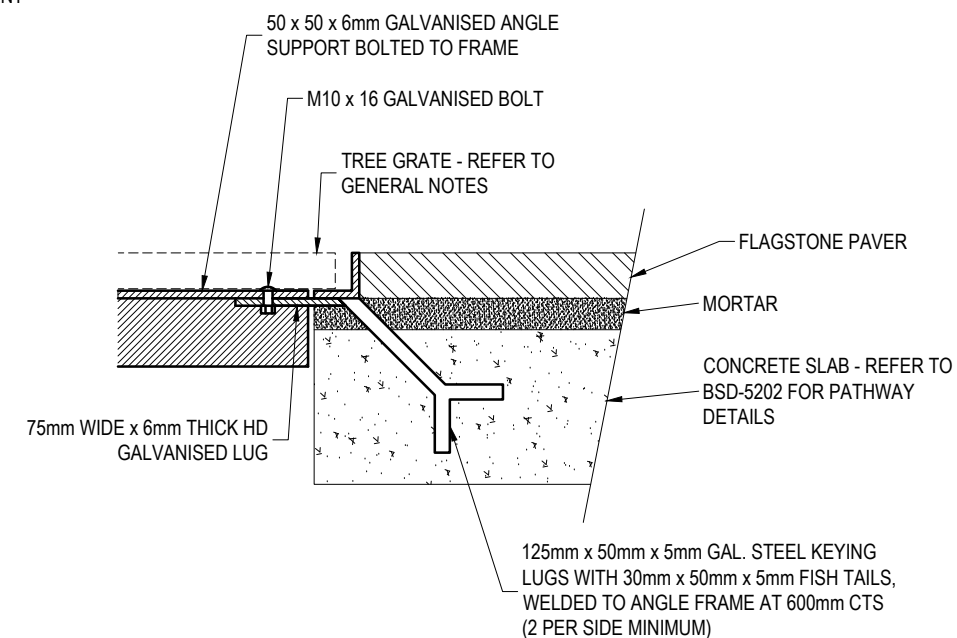
					DRAWING AUTHORISED FOR PUBLICATION I. CONDRIK SIGNATURE ON ORIGINAL 06/2012	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING			
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	CPD - P&D	DATE	OCT '13		TREE GRATE DETAILS SHEET 2 OF 3		SCALE NOT TO SCALE	
					DESIGN APPROVED VICKI MARTIN SIGNATURE ON ORIGINAL 17/10/2011	CHECKED	D. M	DATE	DEC '10				DWG No. BSD-9071	
					PRINCIPAL OFFICER URBAN DESIGN UNIT	DRAWING FILENAME	BSD-9071 (C) Tree grate - Details - Sheet 2 of 3.dwg					ORIGINAL SIZE A3		REVISION C
						ASSOCIATED PLANS	SUPERSEDES UMS-519-2							
C	General Notes (Note 1) Added	MAR '19	APR '19	APR '19										
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16										
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14										
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE										



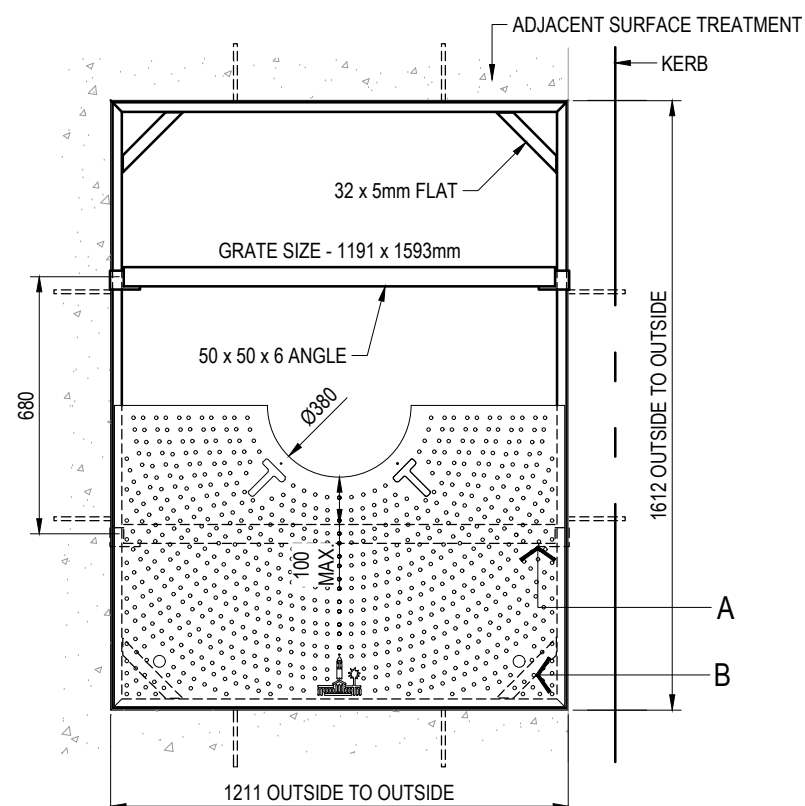
1600 x 1600mm TREE GRATE SUB-FRAME
WITH SUPPORT BRACKETS



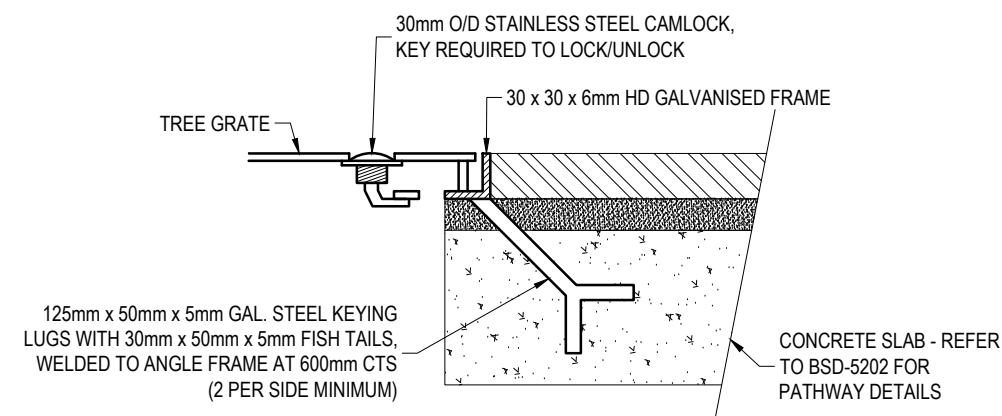
1600 x 1600mm CUSTOM TREE GRATE
SUB-FRAME WITH SUPPORT BRACKETS



DETAIL A - TREE GRATE SUPPORT BRACKET



1200 x 1600 TREE GRATE SUB-FRAME WITH
SUPPORT BRACKETS



DETAIL B - TREE GRATE CORNER FIXING

GENERAL NOTES

- 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.
- ALL STEEL TO BE HD GALVANISED AFTER FABRICATION.
- ALL STEEL FIXINGS TO BE HD GALVANISED UNLESS NOTED OTHERWISE.
- 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.
- 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.

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

NAME: B. BALAKUMAR RPEQ: 3963
SIGNATURE: SIGNATURE ON ORIGINAL DATE: 16/12/10

DRAWING AUTHORISED FOR PUBLICATION

I. CONDRIK SIGNATURE ON ORIGINAL 06/2012

ASSET ENGINEERING MANAGER
STRATEGIC ASSET MANAGEMENT

DESIGN APPROVED

VICKI MARTIN SIGNATURE ON ORIGINAL
17/10/2011

PRINCIPAL OFFICER
URBAN DESIGN UNIT

DESIGN	Std Dwgs WG	DATE	OCT '13
DRAWN	CPD - P&D	DATE	OCT '13
CHECKED	D. M	DATE	DEC '10
DRAWING FILENAME	BSD-9071(D) Tree grate - Sub-frame details - Sheet 3 of 3.dwg		
ASSOCIATED PLANS	SUPERSEDES UMS-519-3		



BRISBANE CITY COUNCIL STANDARD DRAWING

TREE GRATE
SUB-FRAME DETAILS
SHEET 3 OF 3

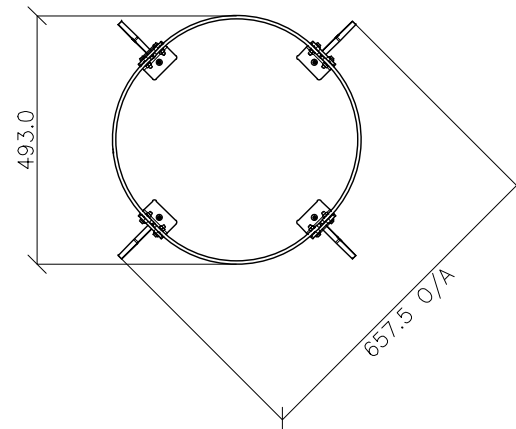
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DWG No. BSD-9071

ORIGINAL SIZE A3

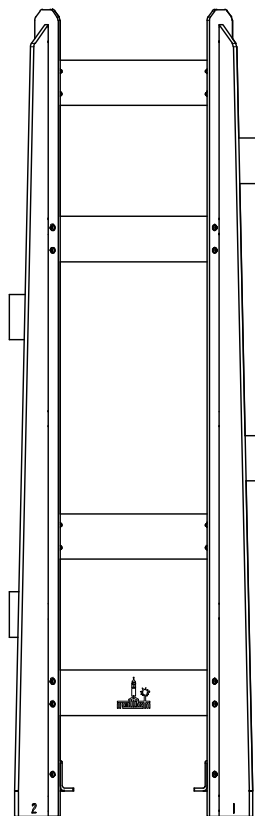
REVISION D

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

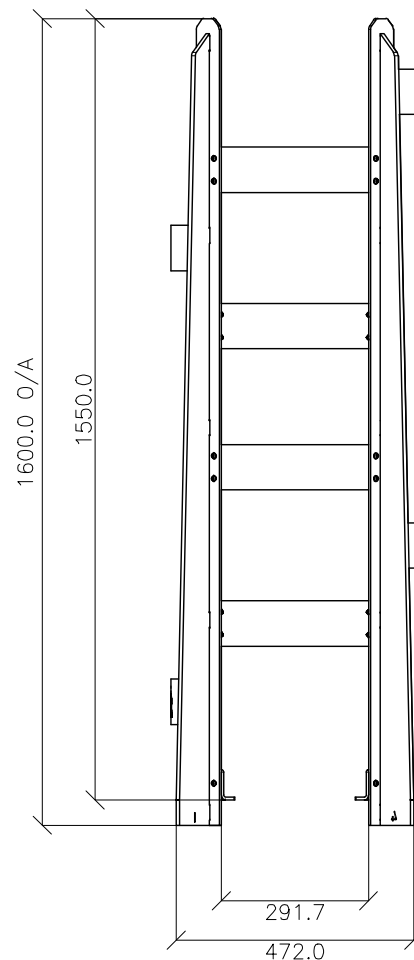


TOP VIEW

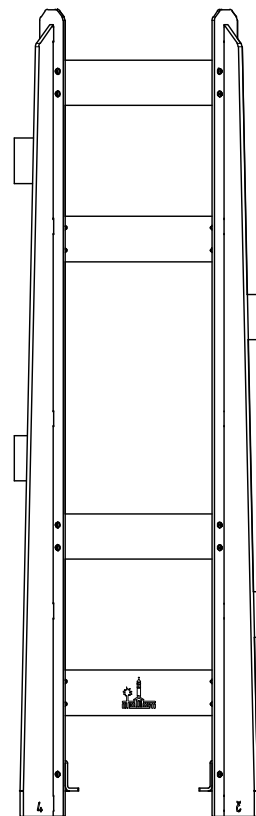
ITEM NO.	DESCRIPTION	QTY.
1	No 1 Upright	1
2	No 2 Upright	1
3	No 3 Upright	1
4	No 4 Upright	1
5	Tree Guard Panel	7
6	Tree Guard Logo Panel	1
7	Tree Guard Bracket	4
8	SS304 M6 x 25mm Torx Security But Head, SS304 M6 Spring Washer, SS304 M6 Hex Nut, SS304 M6 Flat Washer	40
9	M6 304 Stainless Steel Spring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



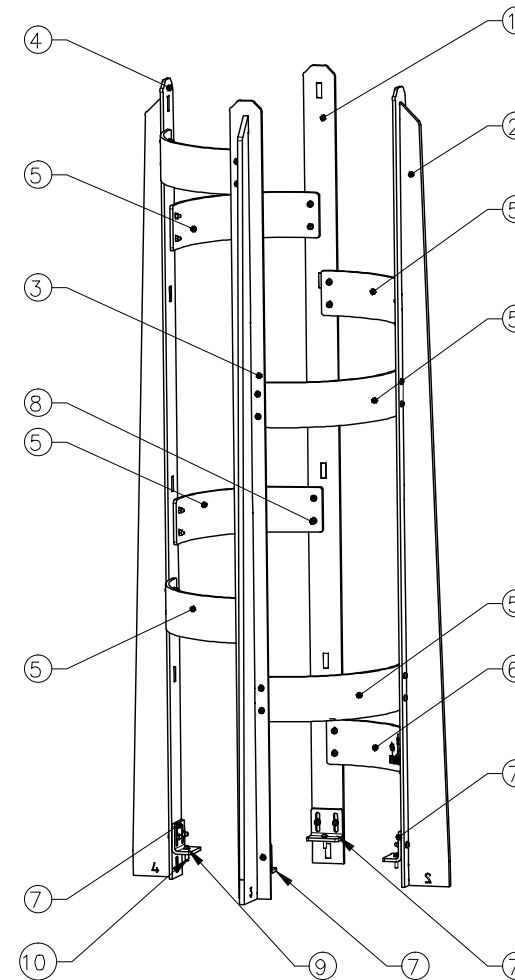
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



PICTORIAL VIEW

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, 1994.
- GUIDE TO ENGINEERING PRACTICE, 'PEDESTRIANS', PART 13, AUSTRADS. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- AS4506 –2005, METAL FINISHING– THERMOSET 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, AUSTRADS. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- AS2890.3–1993 PARKING FACILITIES PART 3
- 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 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 $\pm 1.5\text{mm}$ 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: 8807

SIGNATURE: ON ORIGINAL DATE: 28/ 6 /12

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIE AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	June '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
						DRAWN	AB	DATE	June '12					
					FOR ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	CHECKED	VM	DATE	04/13					
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	DRAWING FILENAME	BSD-9072 (B) Tree guard - Assembly - Sheet 1 of 8.dwg							
A	Drawing Converted From UMS Sereis April 2014	APR'14	APR'14	APR'14	VICKI MARTIN SIGNATURE ON ORIGINAL	ASSOCIATED PLANS	SUPERSEDES UMS 520 Series				TREE GUARD ASSEMBLY SHEET 1 OF 8		SCALE 1:15	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN				DWG No. BSD-9072					
									ORIGINAL SIZE A3		REVISION B			




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.
2. AS1627.4 METAL FINISHING – PREPARATION AND PRE–TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
3. AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION, 1994.
4. GUIDE TO ENGINEERING PRACTICE, 'PEDESTRIANS', PART 13, AUSTROADS.
5. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
6. 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'.
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 3
12. AS 1742.9– 2000 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 9: BIKE FACILITIES

1. 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.
4. DRAWING TO AS1100 DRAWING STANDARDS.
5. 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
6. ALL TOLERANCES $\pm 1.5\text{mm}$ UNLESS OTHERWISE SPECIFIED.


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

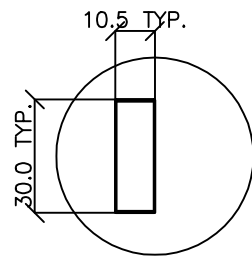
NAME: B.C. PLANT RPEQ: 8807
SIGNATURE: ON ORIGINAL DATE: 28/6/12

					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIĆ AUTHORISED 15/04/2014</div> <div>FOR ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT</div> <div>DESIGN APPROVED</div> <div>VICKI MARTIN SIGNATURE ON ORIGINAL</div> <div>PRINCIPAL PLANNING OFFICER URBAN DESIGN</div>	DESIGN	FORMZOO DESIGN	DATE	June '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
C	Colour Finish Requirements Updated (Material Notes)	MAY '17	MAY17	MAY '17		DRAWN	AB	DATE	June '12		SCALE	1:10	
B	Drawing Title Amended	FEB '16	JUL '16	JUL 16		CHECKED	VM	DATE	04/13		DWG No.	BSD-9072	
A	Drawing Converted From UMS Sereis April 2014	APR'14	APR'14	APR'14		DRAWING FILENAME	BSD-9072 (B) Tree guard - No 1 upright - Sheet 2 of 8.dwg				ORIGINAL SIZE	REVISION	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS 520 Series				A3	C	

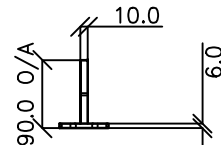


SIGNATURE: ON ORIGINAL _____ DATE: 28/ 6 /12

					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014</div> <div>for ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT</div> <div>DESIGN APPROVED</div> <div>VICKI MARTIN SIGNATURE ON ORIGINAL</div>	DESIGN	FORMZ00 DESIGN	DATE	June '12		BRISBANE CITY COUNCIL STANDARD DRAWING				
C	Colour Finish Requirements Updated (Material Notes)	MAY '17	MAY '17	MAY '17		DRAWN	AB	DATE	June '12					SCALE 1:10	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	04/13						DWG No. BSD-9072
A	Drawing Converted From UMS Series April 2014	APR'14	APR'14	APR'14		DRAWING FILENAME	BSD-9072 (B) Tree guard - No 2 upright - Sheet 3 of 8.dwg								
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS 520 Series							REVISION C	

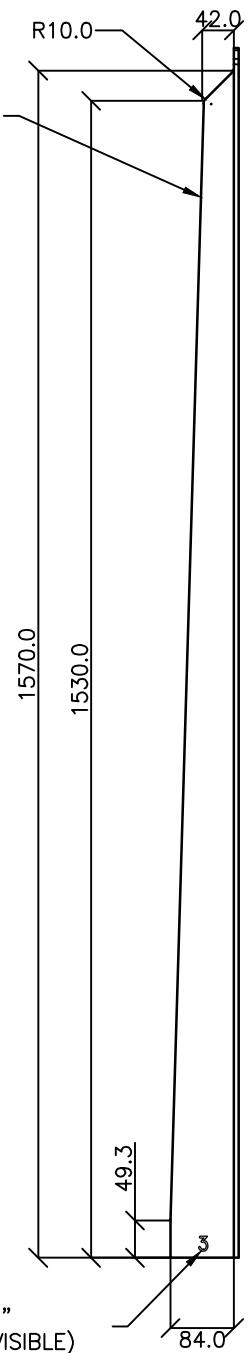


DETAIL E
KEYWAY DETAIL
SCALE 1 : 2

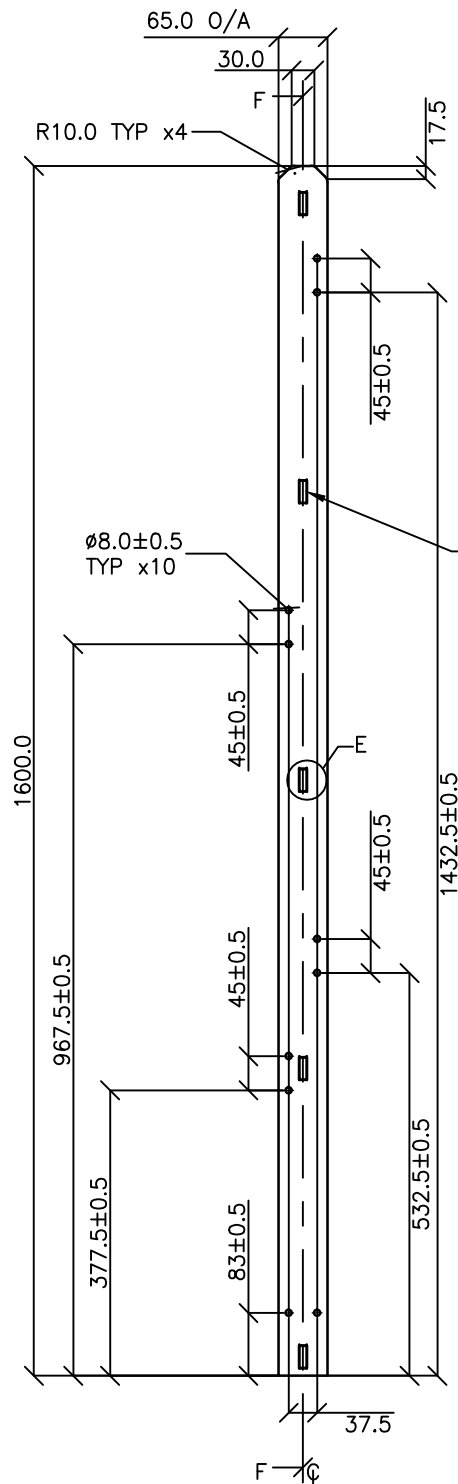


TOP VIEW

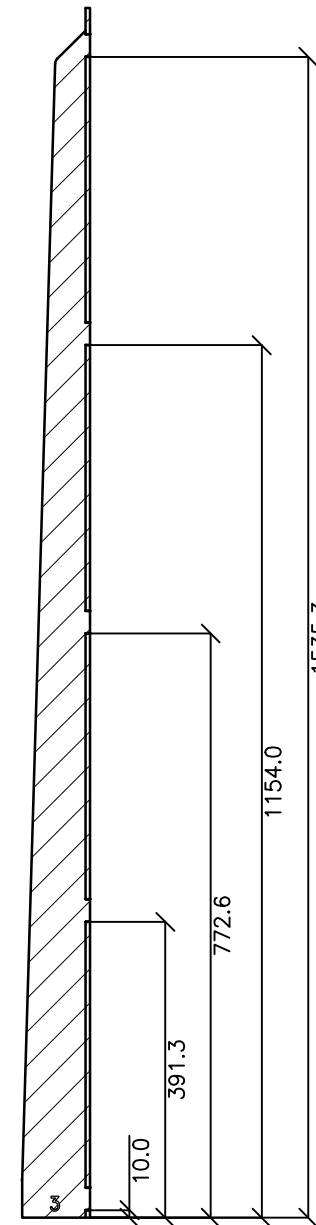
RADIUS ALL FORWARD
FACING EDGES (MIN
RADIUS 3MM)



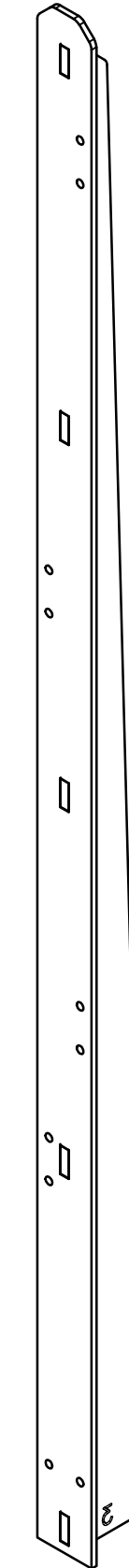
SIDE VIEW



FRONT VIEW



SECTION F-F



PICTORIAL VIEW
SCALE 1 : 6

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.
2. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
3. AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION, 1994.
4. GUIDE TO ENGINEERING PRACTICE, 'PEDESTRIANS', PART 13, AUSTRROADS.
5. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
6. 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'.
9. GUIDE TO ENGINEERING PRACTICE, 'BICYCLES', PART 14, AUSTRROADS.
10. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
11. AS2890.3–1993 PARKING FACILITIES PART 3
12. AS 1742.9– 2000 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 9: BIKE FACILITIES

NOTES

1. 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.
4. DRAWING TO AS1100 DRAWING STANDARDS.
5. 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
6. ALL TOLERANCES $\pm 1.5\text{mm}$ UNLESS OTHERWISE SPECIFIED.

MATERIAL


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

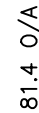
**STRUCTURAL DESIGN REVIEWED AND
CERTIFIED FOR ISSUE**

NAME: B.C. PLANT RPEQ: 8807

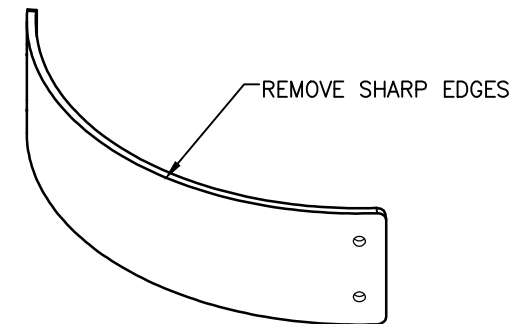
SIGNATURE: ON ORIGINAL DATE: 28/ 6 /12

LASER CUT OR
STAMPED NUMBER "3"
(MUST BE CLEARLY VISIBLE)

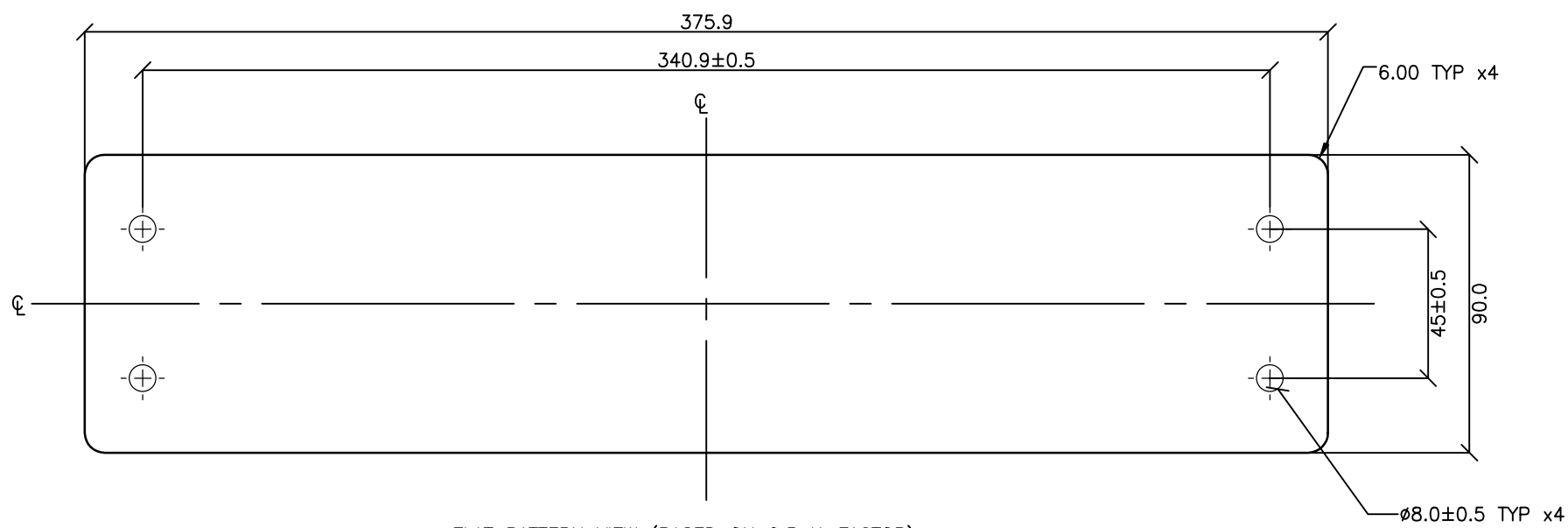
					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	June '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
					FOR ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	June '12		TREE GUARD NO 3 UPRIGHT SHEET 4 OF 8			
					DESIGN APPROVED	CHECKED	VM	DATE	04/13					
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-9072 (B) Tree guard - No 3 upright - Sheet 4 of 8.dwg							
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS 520 Series							
C	Colour Finish Requirements Update (Material Notes)	MAY '17	MAY '17	MAY '17										
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16										
A	Drawing Converted From UMS Series April 2014	JUN'12	04/13	APR '13										



FRONT VIEW



PICTORIAL VIEW
SCALE 1 : 5



FLAT PATTERN VIEW (BASED ON 0.5 K-FACTOR)
NOT FULL SCALE


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.
2. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
3. AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION, 1994.
4. GUIDE TO ENGINEERING PRACTICE, 'PEDESTRIANS', PART 13, AUSTROADS.
5. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
6. 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'.
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 3
12. AS 1742.9– 2000 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 9: BIKE FACILITIES

1. 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.
4. DRAWING TO AS1100 DRAWING STANDARDS.
5. 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
6. ALL TOLERANCES $\pm 1.5\text{mm}$ UNLESS OTHERWISE SPECIFIED.


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

NAME: B.C. PLANT RPEQ: 8807
SIGNATURE: ON ORIGINAL DATE: 28/ 6 /12

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014 --- of ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED VICKI MARTIN SIGNATURE ON ORIGINAL --- PRINCIPAL PLANNING OFFICER URBAN DESIGN	DESIGN	FORMZ00 DESIGN	DATE	June '12		BRISBANE CITY COUNCIL STANDARD DRAWING <div style="text-align: center;"> TREE GUARD PANEL SHEET 6 OF 8 </div>			SCALE		1:10	
C	Colour Finish Requirements Updated (Materail Notes)	MAY '17	MAY '17	MAY '17		DRAWN	AB	DATE	June '12					DWG No.	BSD-9072		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	04/13					ORIGINAL SIZE	REVISION		
A	Drawing Converted From UMS Series April 2014	APR'14	APR'14	APR'14		DRAWING FILENAME	BSD-9072 (B) Tree guard panel - Sheet 6 of 8.dwg							A3	C		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS 520 Series										



- NAME: B.C. PLANT RPEQ: 8807
SIGNATURE: ON ORIGINAL DATE: 28/6/12

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORIZED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	June '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
					FOR ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	June '12		TREE GUARD LOGO PANEL SHEET 7 OF 8	SCALE 1:10	
					DESIGN APPROVED	CHECKED	VM	DATE	04/13			DWG No. BSD-9072	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-9072 (B) Tree guard -Logo panel - Sheet 7 of 8.dwg					ORIGINAL SIZE A3	
A	Drawing Converted From April 2014	APR'14	APR'14	APR'14	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS 520 Series					REVISION B	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APP'R'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.
- 2. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
- 3. AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION, 1994.
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- 6. 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'.
- 9. GUIDE TO ENGINEERING PRACTICE, 'BICYCLES', PART 14, AUSTRROADS.
- 10. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- 11. AS2890.3–1993 PARKING FACILITIES PART 3
- 12. AS 1742.9– 2000 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 9: BIKE FACILITIES

NOTES

- 1. 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.
- 4. DRAWING TO AS1100 DRAWING STANDARDS.
- 5. 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.

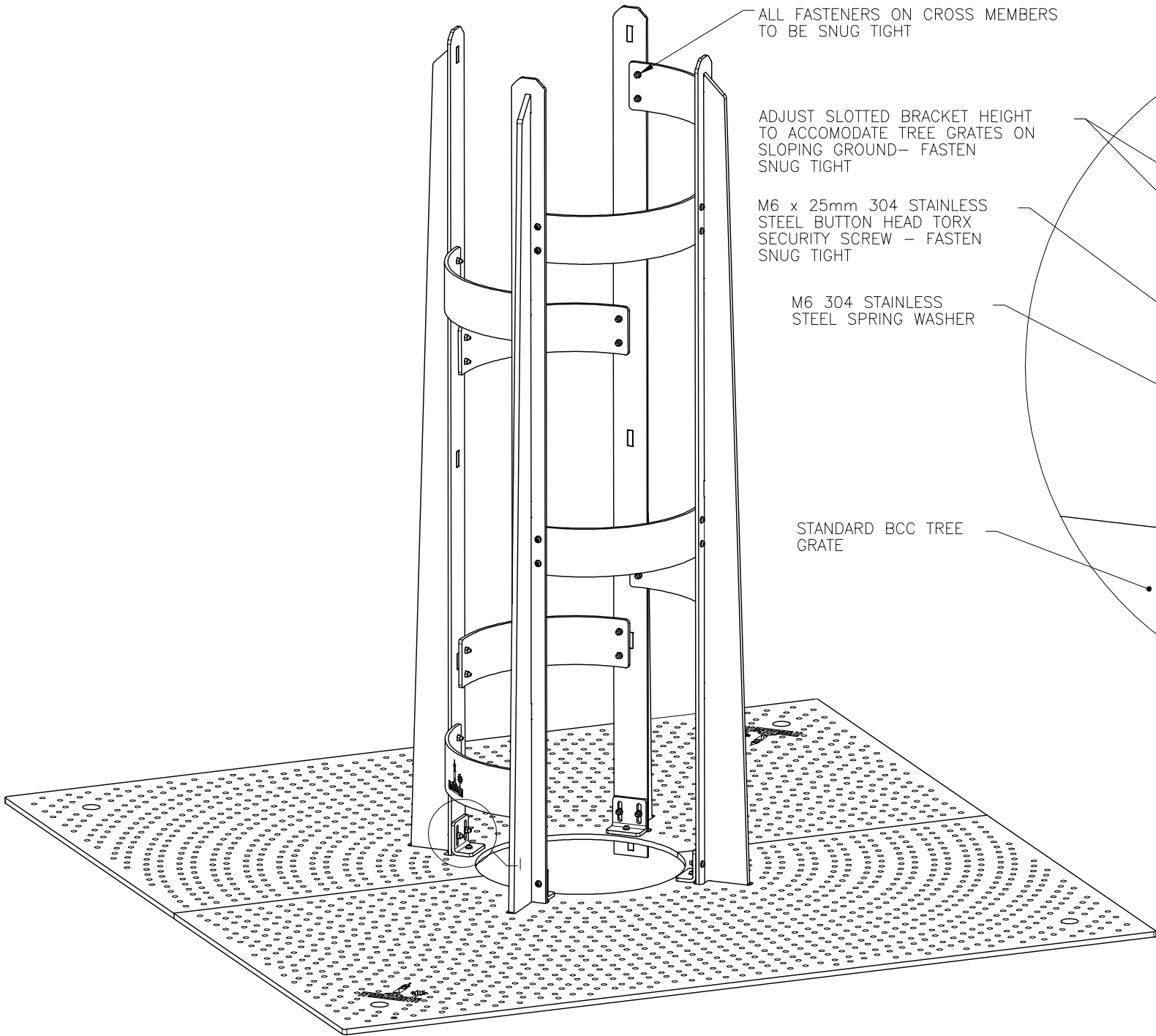
MATERIAL

- 1. MATERIAL: SEE COMPONENT DRAWING
- 2. COLOUR: SEE COMPONENT DRAWING
- 3. FINISH: SEE COMPONENT DRAWING

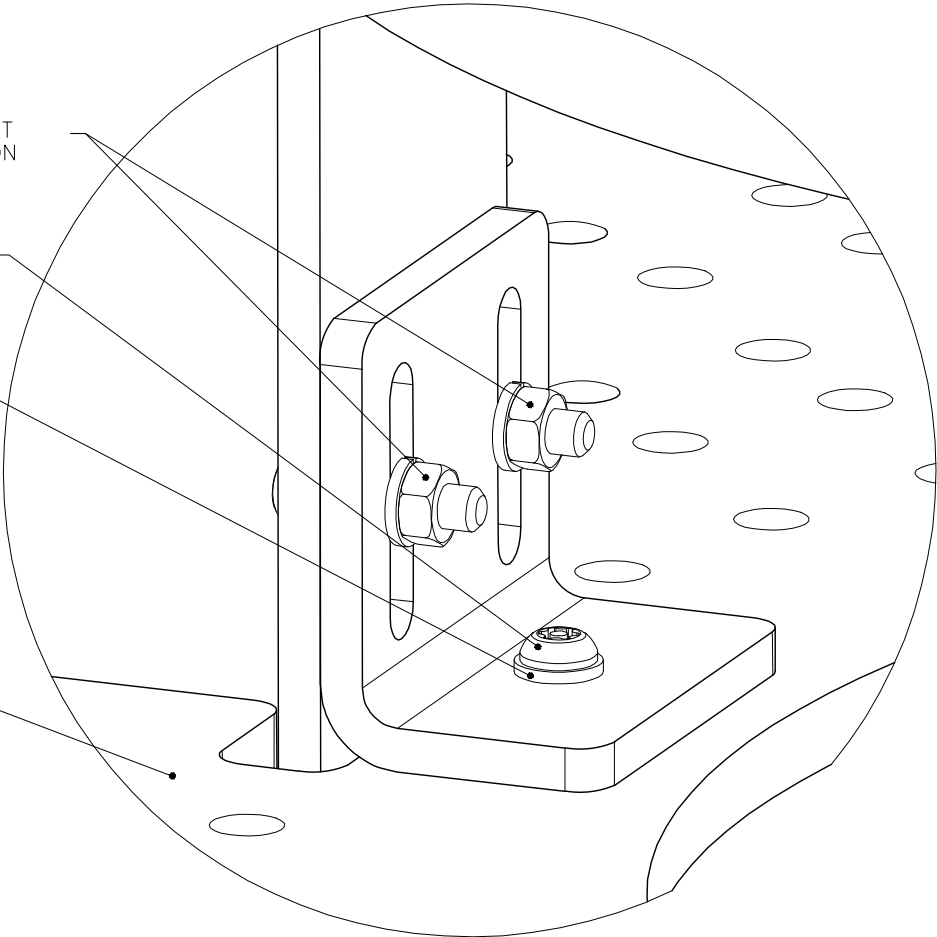
STRUCTURAL DESIGN REVIEWED AND
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807


SIGNATURE: ON ORIGINAL DATE:28/ 6 /12

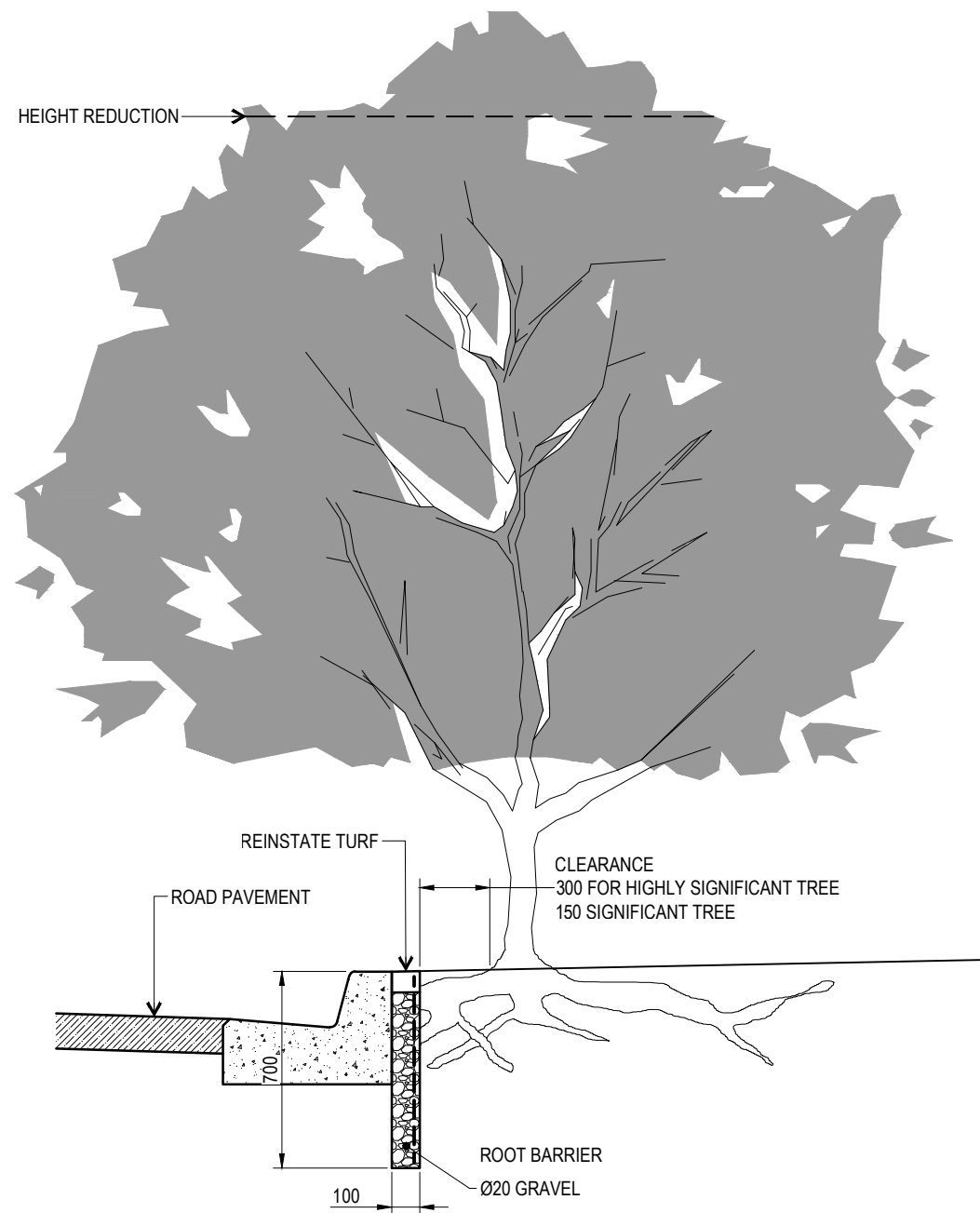


PICTORIAL VIEW

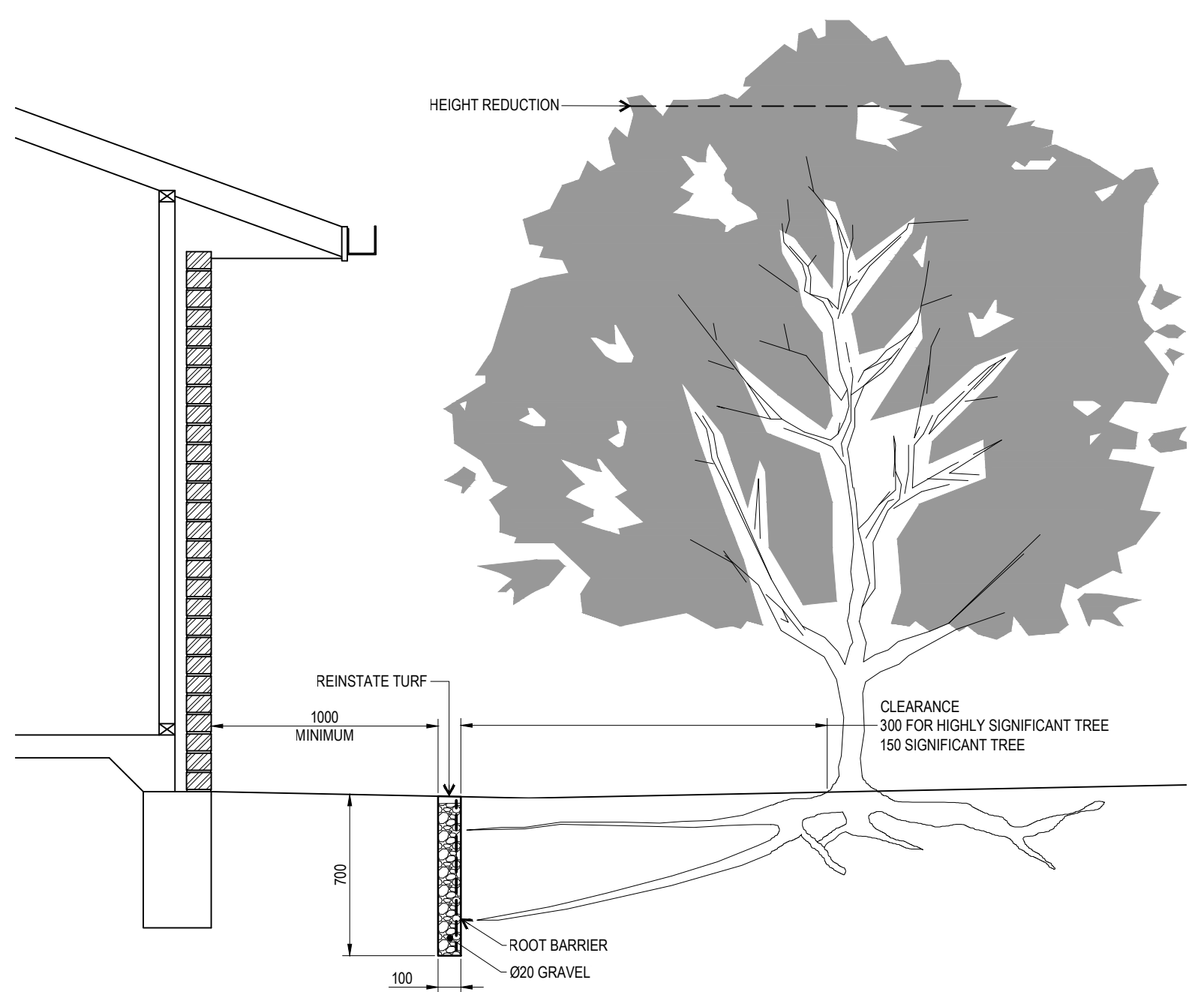


DETAIL I
INSTALLATION DETAIL
TYPICAL AT BASE OF ALL UPRIGHTS
SCALE 1 : 1

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	June '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
						DRAWN	AB	DATE	June '12				
					of ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	CHECKED	VM	DATE	04/13		TREE GUARD INSTALLATION SHEET 8 OF 8	SCALE 1:10	
B	Drawing title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	DRAWING FILENAME	BSD-9072 (B) Tree guard - Installation - Sheet 8 of 8.dwg		DWG No.			BSD-9072	
A	Drawing Converted From UMS Series April 2014	APR'14	APR'14	APR'14	VICKI MARTIN SIGNATURE ON ORIGINAL	ASSOCIATED PLANS	SUPERSEDES UMS 520 Series		ORIGINAL SIZE	REVISION			
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN				A3	B			



ROOT DEFLECTOR INSTALLATION BEHIND KERB



ROOT DEFLECTOR INSTALLATION ADJACENT A STRUCTURE

NOTES:

1. 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.
2. TREE WILL REQUIRE CROWN THINNING AND MAY REQUIRE HEIGHT REDUCTION.
3. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

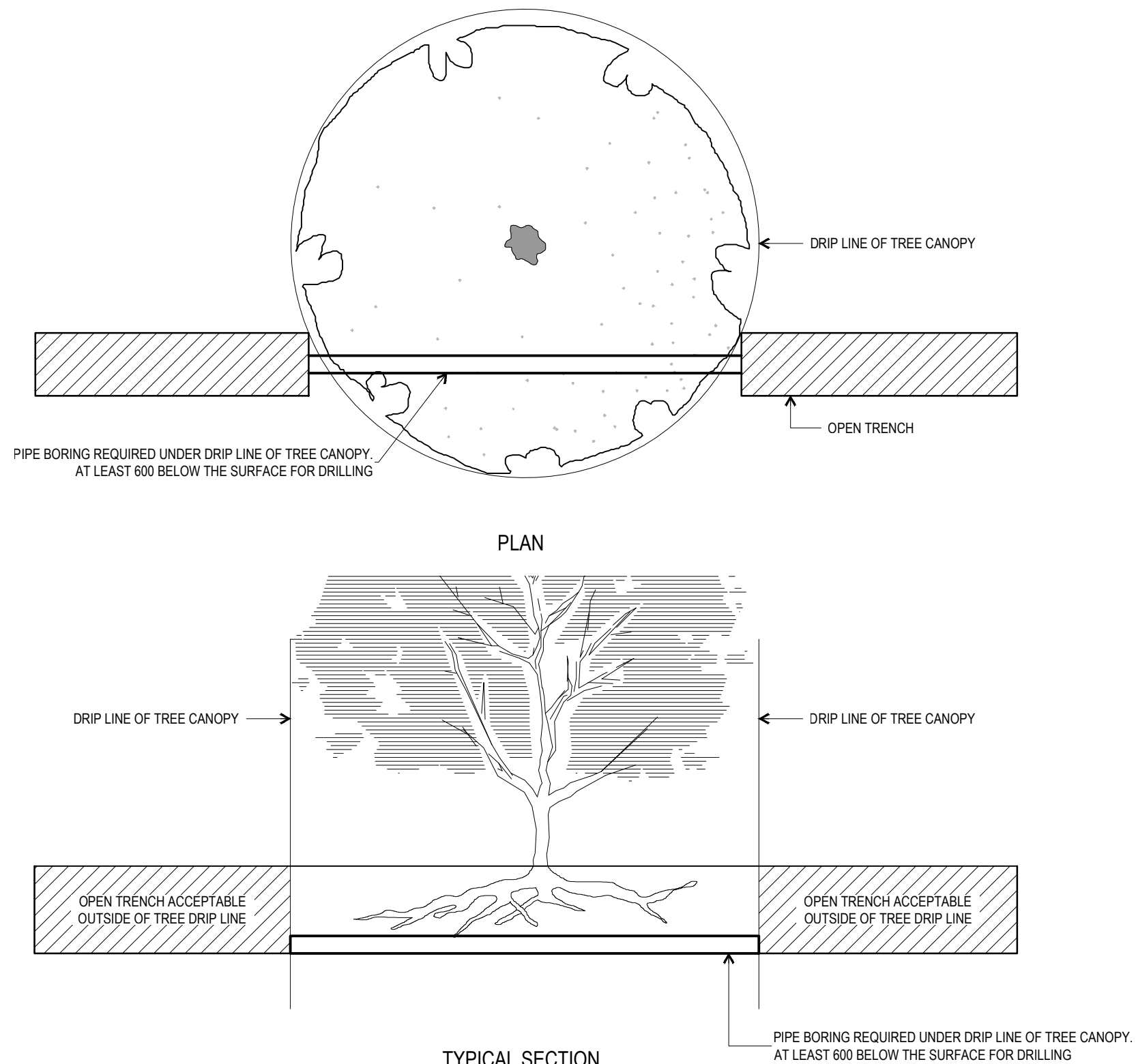
THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED 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	A3
REVISION	B



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).



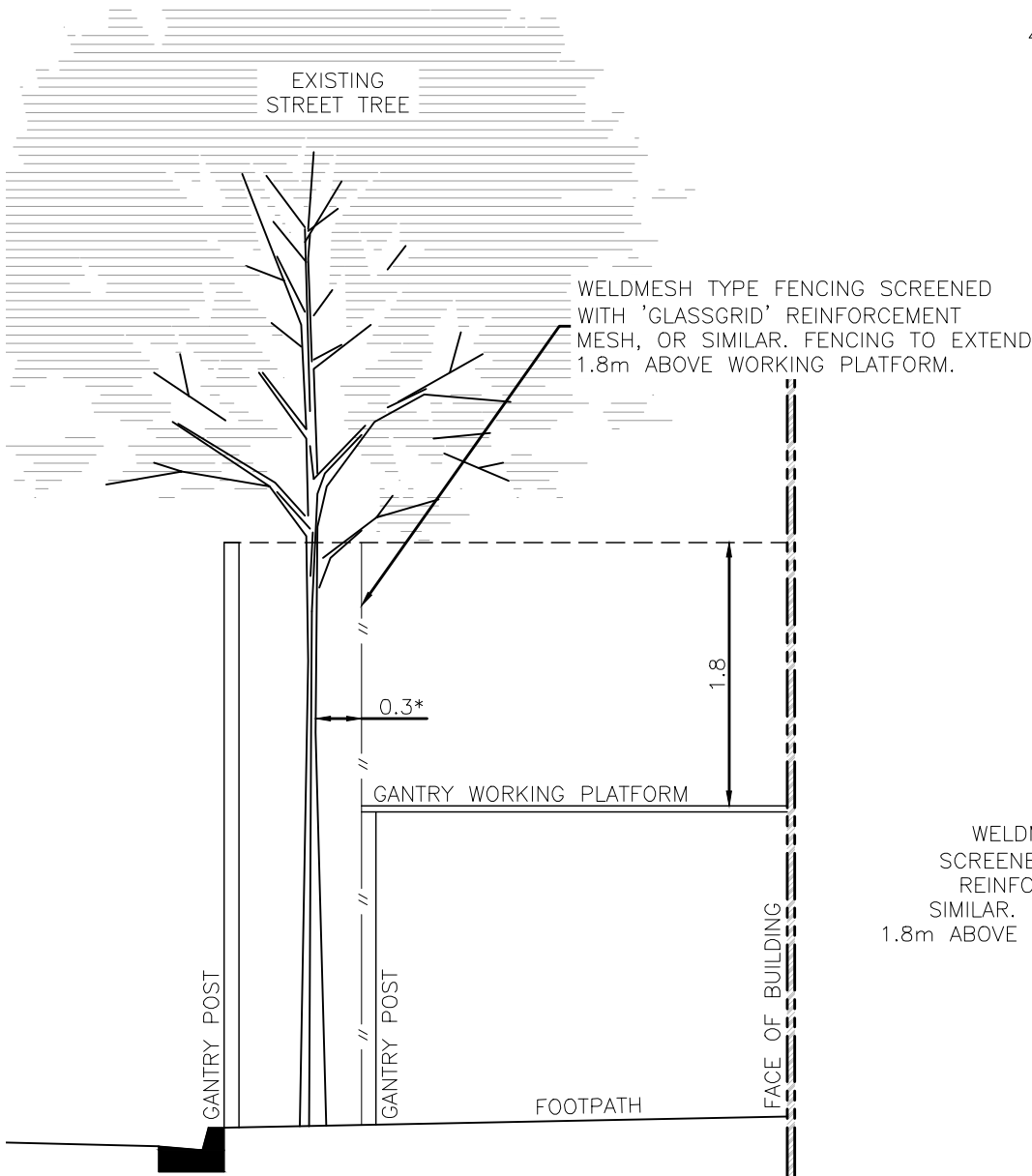
BRISBANE CITY COUNCIL STANDARD DRAWING

INSTALLATION OF SERVICE
TRENCH ADJACENT TO A TREE

PUBLISH DATE		JUN 2023
SCALE		NOT TO SCALE
DRAWING NUMBER		BSD-9083
ORIGINAL SIZE	REVISION	
A3	B	

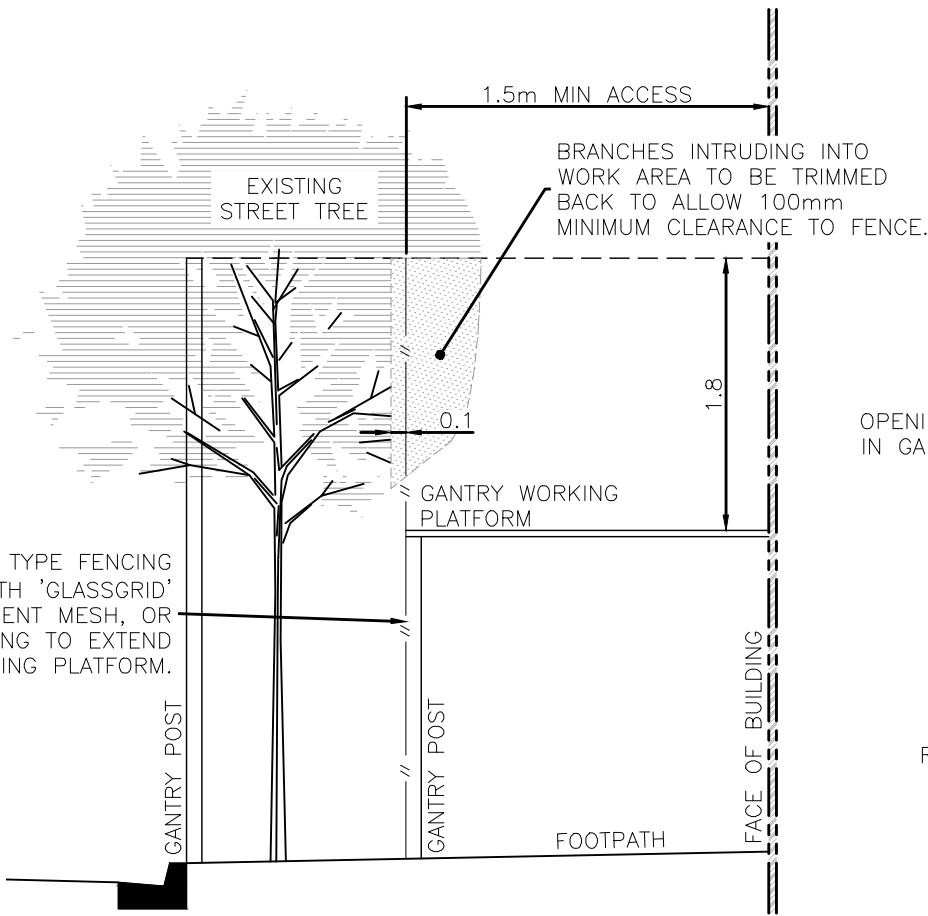
NOTES:

- 1. ALLOW 0.1m CLEARANCE TO TREE LIMBS WHERE THEY PENETRATE GANTRY WORKING PLATFORM.
- 2. SCAFFOLDING AND GANTRIES TO AS/NZS 1576.
- 3. FOR ANY TRIMMING/WORK TO EXISTING STREET TREES, CONTACT BRISBANE'S VEGETATION AND PEST SERVICES – TREE OPERATIONS ON 3403 8888.
- 4. ALL DIMENSIONS IN METRES (U.N.O.).

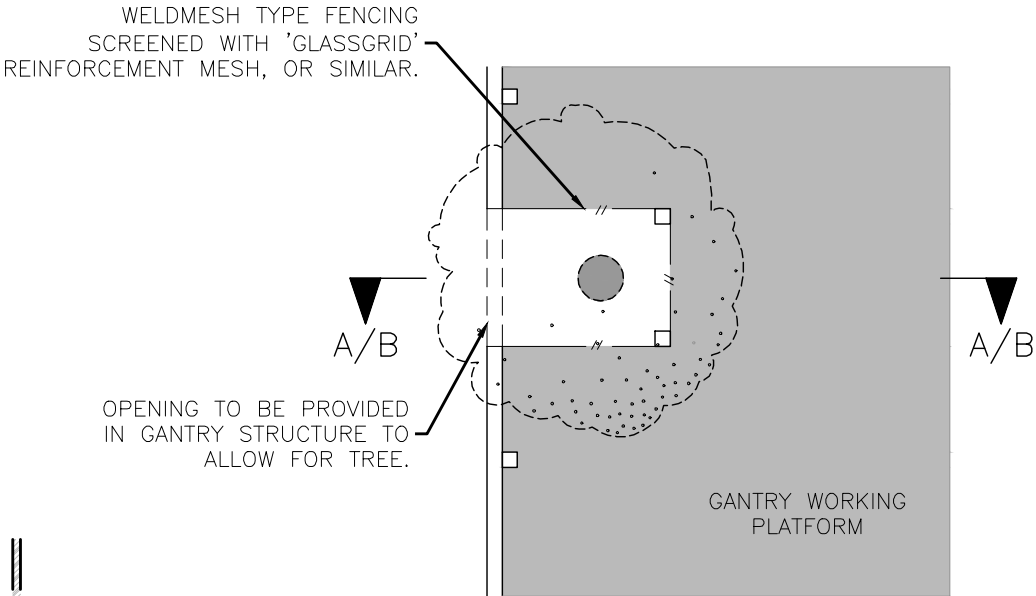


SECTION A

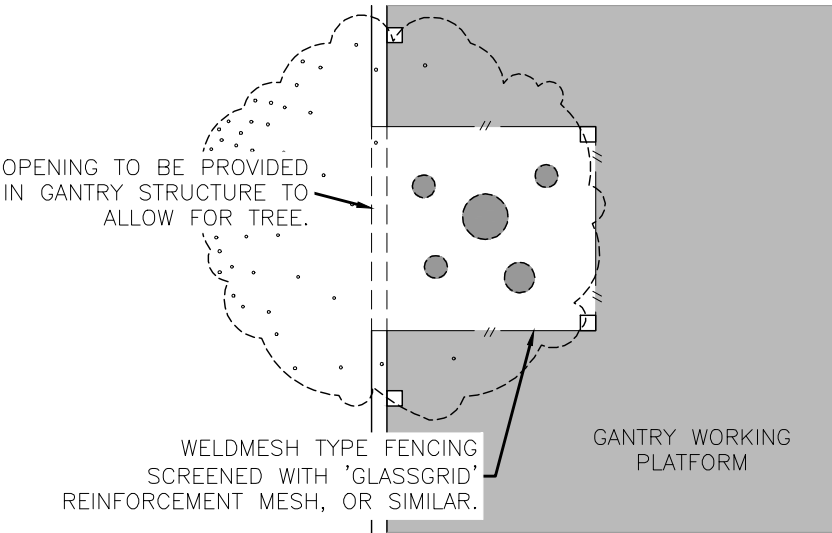
* PROVIDE 300mm CLEAR OPENING FOR TREE/BRANCHES THROUGH WORKING PLATFORM.



SECTION B

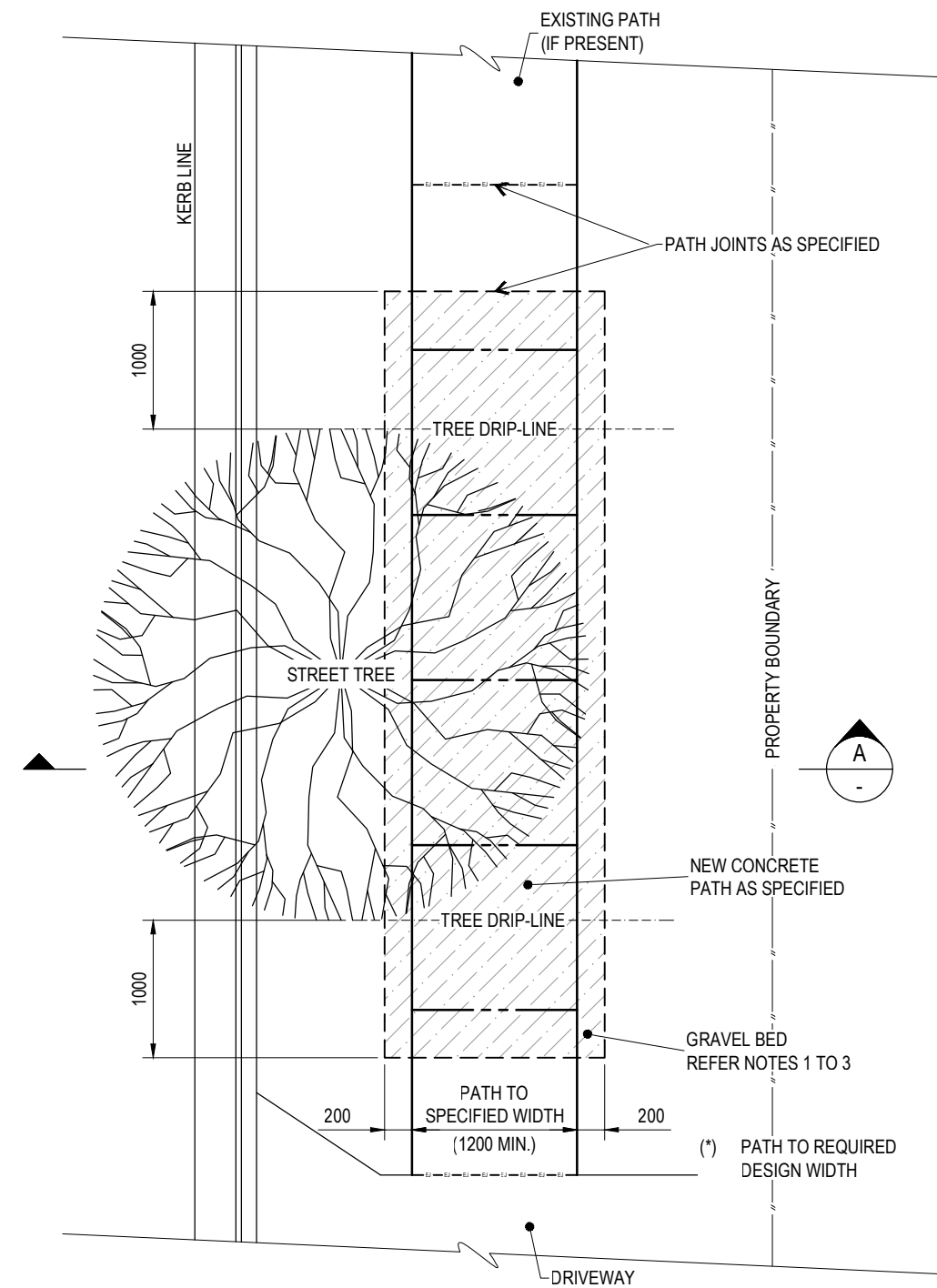


PLAN A
(SINGLE TRUNK)



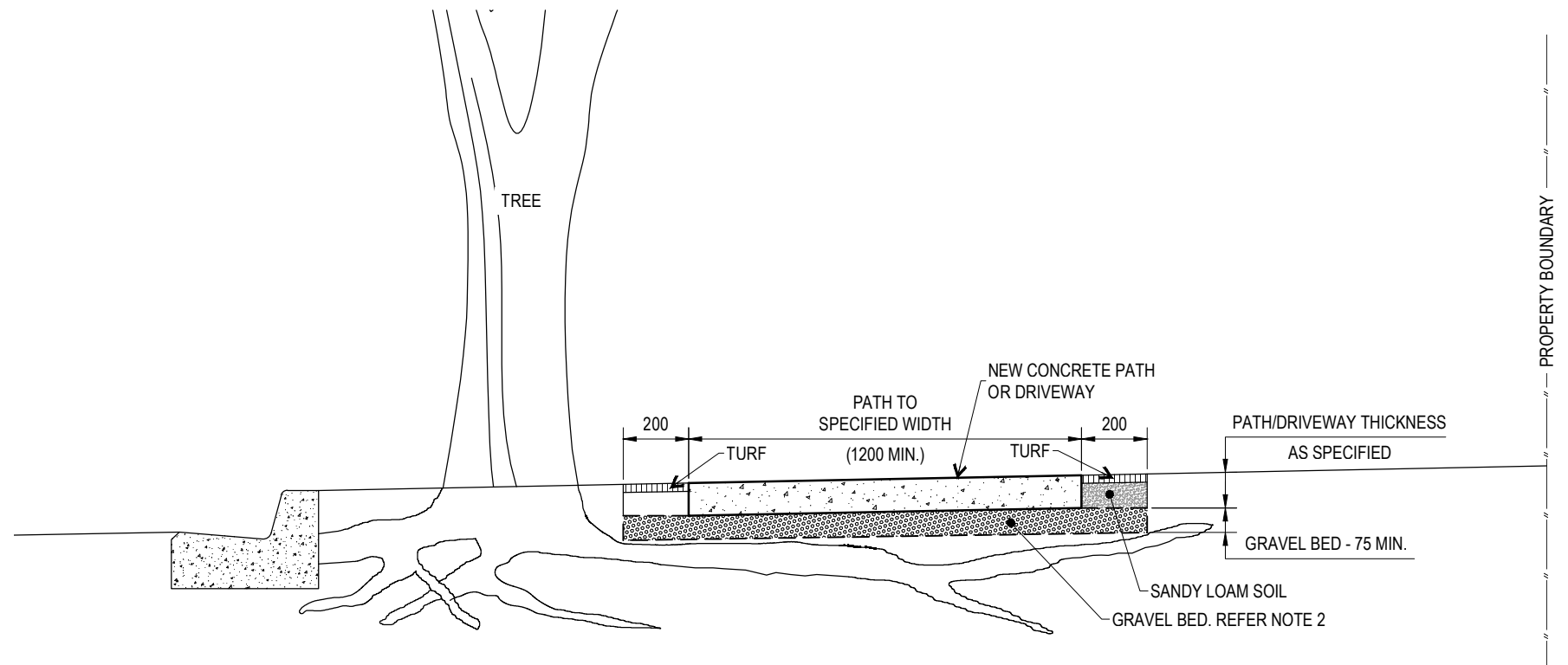
PLAN B
(MULTIPLE TRUNK)

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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.
4. 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.
8. REFER BSD-5201 FOR STANDARD FOOTPATH DETAILS AND BSD-5208 FOR EXPANSION JOINT REQUIREMENTS.
9. 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

PUBLISH DATE	JUN 2023
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-9085
ORIGINAL SIZE	A3
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

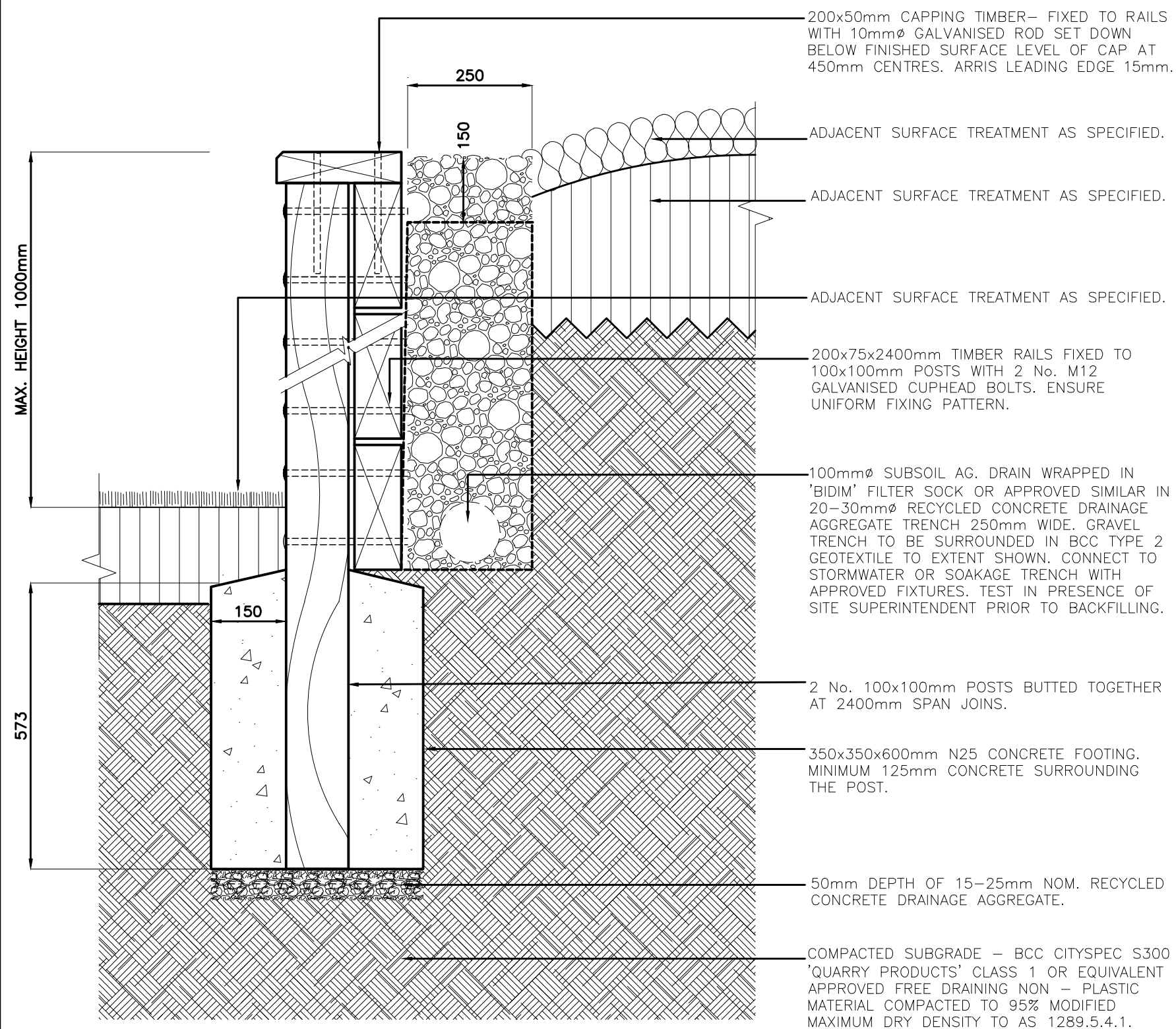
- TIMBER SHOULD BE SOURCED FROM LEGAL AND SUSTAINABLE SOURCES. TIMBERS ARE CONSIDERED ACCEPTABLE WHERE THERE IS A HIGH DEGREE OF CERTAINTY THAT THEY ARE FROM FORESTS, EITHER NATIVE OR PLANTATION, THAT ARE LEGALLY HARVESTED AND SUSTAINABLY MANAGED. THE CONTRACTOR IS TO SUBMIT EVIDENCE THAT THE TIMBER 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

					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q: 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING		
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWN	CP0 – P&D	DATE	OCT '13		RETAINING WALLS – GENERAL NOTES	SCALE 1:10	
						CHECKED	UMD – E&P & IMB	DATE	OCT '13			DWG No. BSD–9301	
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-9302.dwg						ORIGINAL SIZE
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-733				A3	A



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

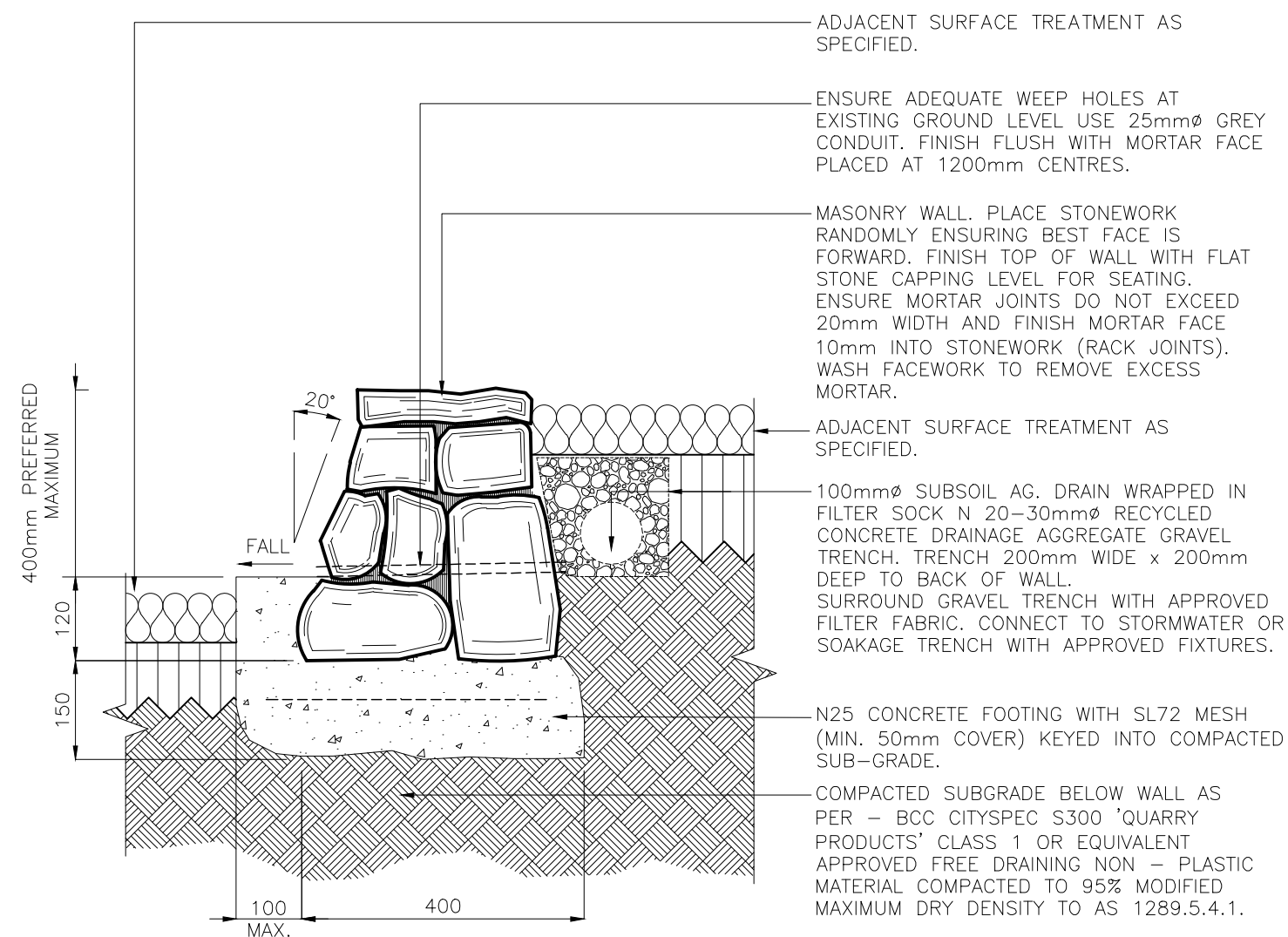
- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
- AT A MINIMUM ALL CONCRETE TO BE GRADE N25. CONCRETE SHALL BE NORMAL CLASS CONCRETE UNLESS DIRECTED OTHERWISE. N25 SHALL MEAN NORMAL CLASS CONCRETE WITH A 28 DAY CHARACTERISTIC STRENGTH OF 25MPa. CONCRETE MIX DESIGN SHALL BE SUBMITTED 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 NAPHTHENATE OIL (FOR ABOVE GROUND USE) AND COPPER NAPHTHENATE 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 03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q: 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING			
						DRAWN	CPO - P&D	DATE	OCT '13		RETAINING WALL SLEEPER	SCALE 1:10		
						CHECKED	UMD - E&P & IMB	DATE	OCT '13			DWG No.	BSD-9302	
						DRAWING FILENAME	BSD-9302 (A) Retaining wall - Sleeper.dwg					ORIGINAL SIZE	A3	
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04 ----- PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-733				REVISION	A		




FREE STANDING STONE WALL – SECTION

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.

					<div>DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q. 2546 DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04 PRICIPAL PROGRAM OFFICER PARKS</div>	DESIGN	Std Dwgs WG	DATE	OCT '13		<div>BRISBANE CITY COUNCIL STANDARD DRAWING</div> <div>FREE—STANDING STONE WALL</div> <div>SCALE 1:10 DWG No. BSD—9307 ORIGINAL SIZE A3 REVISION A</div>		
						DRAWN	CPO - P&D	DATE	OCT '13				
						CHECKED	UMD - E&P & IMB	DATE	OCT '13				
						DRAWING FILENAME	BSD-9307 (A) Free-standing stone wall.dwg						
						ASSOCIATED PLANS	SUPERSEDES UMS-735						
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14									
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE									