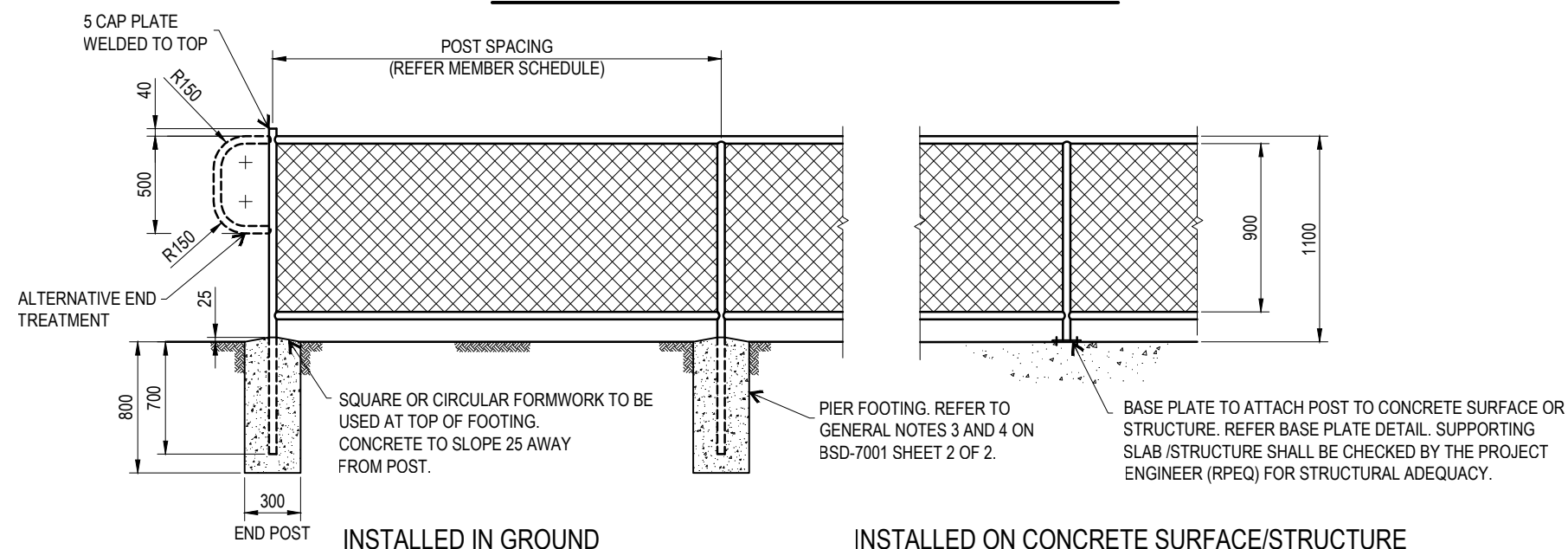
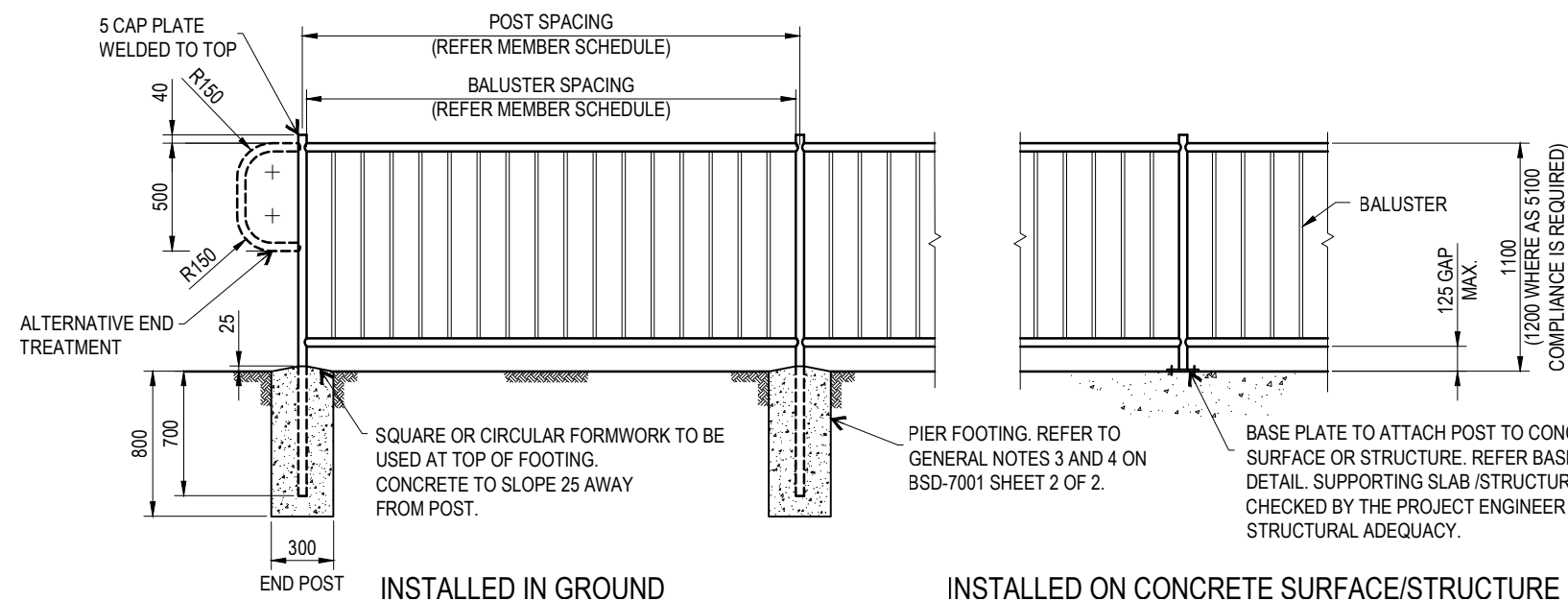


PEDESTRIAN FENCE / BARRIER - OPTION 1



PEDESTRIAN FENCE / BARRIER WITH CHAIN WIRE - OPTION 2



PEDESTRIAN FENCE / BARRIER WITH BALUSTERS - OPTION 3

MEMBER SCHEDULE		
WHERE THERE IS NO FALL HEIGHT (LEVEL GROUND)		
ELEMENT	HOT DIPPED GALVANISED	STAINLESS STEEL (GR316)
POSTS	48.3 x 4.0 CHS (AT 2400 MAX. CTS)	48.3 x 5.08 CHS (AT 2400 MAX. CTS)
GATE/END POSTS	76.3 x 3.6 CHS	73 x 5.16 CHS
RAILS	48.3 x 4.0 CHS	48.3 x 3.68 CHS
BASEPLATE (WHERE REQUIRED)	TYPE 1	TYPE 1
WHERE FALL HEIGHT IS LESS THAN 1.0m		
ELEMENT	HOT DIPPED GALVANISED	STAINLESS STEEL (GR316)
POSTS	48.3 x 4.0 CHS (AT 1400 MAX CTS)	48.3 x 5.08 CHS (AT 1400 MAX. CTS)
RAILS	48.3 x 4.0 CHS	48.3 x 3.68 CHS
BASEPLATE (WHERE REQUIRED)	TYPE 2	TYPE 2
WHERE FALL HEIGHT IS 1.0m OR GREATER USE OPTION 3		
ELEMENT	HOT DIPPED GALVANISED	STAINLESS STEEL (GR316)
POSTS	48.3 x 4.0 CHS (AT 1400 MAX. CTS)	48.3 x 5.08 CHS (AT 1400 MAX. CTS)
POSTS (WHERE AS5100 COMPLIANCE IS REQUIRED)	76.1 x 4.5 CHS (AT 1400 MAX. CTS)	73 x 5.16 CHS (AT 1400 MAX. CTS)
GATE/END POSTS	76.1 x 3.6 CHS	73 x 5.16 CHS
RAILS	48.3 x 4.0 CHS	48.3 x 3.68 CHS
BALUSTERS	16 DIA. ROD AT 130 MAX. CTRS	16 DIA. ROD AT 130 MAX. CTRS
BASEPLATE (WHERE REQUIRED)	TYPE 2	TYPE 2

NOTE: REFER TO GENERAL NOTES 5 & 6 ON BSD-7001 SHEET 2 OF 2 FOR DESIGN ASSUMPTIONS.

## NOTES:

- FOR MARINE ENVIRONMENTS OR ENVIRONMENTS WITH A CORROSIVITY CATEGORY OF C4 OR GREATER (IN ACCORDANCE WITH AS2312), ONE OF THE FOLLOWING PROTECTIVE TREATMENT OPTIONS TO BE ADOPTED:  
**OPTION A:** ALL STEEL MEMBERS, FASTENERS, INCLUDING BOLTS, NUTS AND PLATES SHALL BE GRADE 316 STAINLESS STEEL (REFER STAINLESS STEEL NOTES - SHEET 2). ANCHOR BOLTS TO BE GRADE 316 STAINLESS STEEL A4-50 MINIMUM. WIRE MESH AND WIRE TIES SHALL BE GRADE 316 STAINLESS STEEL.  
**OPTION B:** ALL STEEL MEMBERS TO BE HOT DIPPED GALVANISED IN ACCORDANCE WITH AS/NZS4680 AND PAINTED WITH A SYSTEM SUITABLE FOR A CORROSION CATEGORY C4 ENVIRONMENT. THE GALVANISED STEEL SHALL BE PREPARED AND COATED IN ACCORDANCE WITH AS/NZS2312.2 AND GALVANISERS ASSOCIATION OF AUSTRALIA GUIDELINES. MINIMUM SYSTEM REQUIREMENTS AS FOLLOWS (AFTER HOT DIP GALVANISING):
  - CLEAN AND DEGREASE
  - BRUSH BLAST
  - 2 COATS OF HIGH BUILD OR 2 PACK EPOXY (MINIMUM DFT 250µm)
  - 2 COATS OF 2 PACK POLYURETHANE OR 2 PACK ACRYLIC (MINIMUM DFT 50µm/COAT)PAINT COLOUR TO BE IN ACCORDANCE WITH BCC CORPORATE COLOUR PALATTE (REFER BSD-1003).  
WIRE MESH AND WIRE TIES TO BE HOT DIPPED GALVANISED AND PVC COATED.  
ANCHOR BOLTS TO BE GRADE 316 STAINLESS STEEL A4-50 MINIMUM. STAINLESS STEEL ANCHOR BOLTS TO BE ISOLATED FROM GALVANISED/PAINTED STEEL BASE PLATE USING NYLON WASHERS.
- CHAIN WIRE TO BE 900 HIGH x 3.15 THICK x 50 MESH TO AS2423. CHAIN WIRE TO BE FIXED USING 1.6 THICK WIRE, TIED TO POSTS AT 2 LOCATIONS AND CONTINUOUSLY LACED TO RAILS. MESH AND TIES TO BE HOT DIPPED GALVANISED. FOR MARINE ENVIRONMENTS, PROTECTIVE TREATMENT FOR MESH TO BE AS PER EITHER OPTION A OR B IN NOTE 1.
- REFER DRAWING BSD-7001 SHEET 2 OF 2 FOR NOTES AND BASEPLATE DETAILS

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

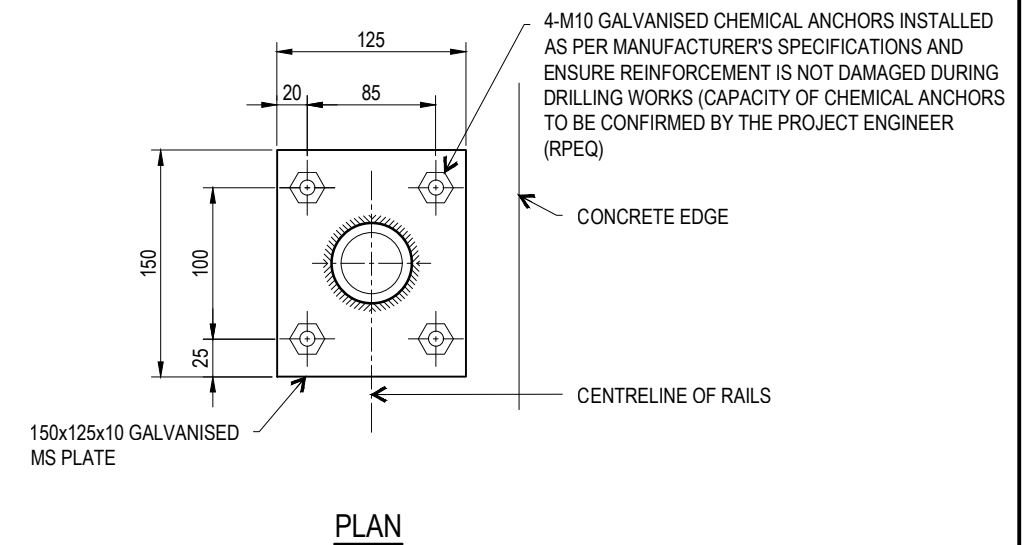
PEDESTRIAN FENCE/BARRIER  
GALVANISED TUBULAR HANDRAIL  
SHEET 1 OF 2

PUBLISH DATE	JUN 2023
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-7001
ORIGINAL SIZE	A3
REVISION	D

1. ALL WORKMANSHIP AND MATERIAL SHALL COMPLY WITH THE APPROPRIATE AUSTRALIAN STANDARDS AND WORKPLACE HEALTH AND SAFETY REGULATIONS THAT ARE CURRENT AT THE TIME OF CONSTRUCTION.
2. VERIFY LOCATIONS OF ALL SERVICES PRIOR TO COMMENCING WORK.
3. FOOTINGS HAVE BEEN DESIGNED ON THE ASSUMPTION THAT THE MINIMUM ALLOWABLE BEARING CAPACITY OF SOIL IS 100kPa AND MINIMUM CU = 50kPa FOR COHESIVE SOILS. THE ACTUAL SOIL CONDITION IS TO BE ASSESSED BY A GEOTECHNICAL ENGINEER (RPEQ) AND IF FOUND TO BE OF WEAKER STRENGTH OR OF DIFFERENT TYPE OF SOIL TO THE ONE ASSUMED, A STRUCTURAL ENGINEER (RPEQ) IS TO BE CONSULTED FOR A PROJECT SPECIFIC FOOTING DESIGN.
4. CONCRETE PIER FOOTINGS TO BE GRADE N25.
5. PEDESTRIAN FENCE / BARRIER IN THIS BSD ARE TO BE USED ONLY IN SITUATIONS CLEAR OF LONGITUDINAL VEHICLE IMPACT SO AS TO AVOID A POTENTIAL SPEARING HAZARD TO MOTORISTS. THESE HANDRAILS ARE NOT TO BE USED IN SITUATIONS WHERE MOTOR VEHICLES / CROWDS / PEOPLE UNDER PANIC CONDITIONS REQUIRE RESTRAINT.
6. PEDESTRIAN FENCE / BARRIER IN THIS BSD HAVE NOT BEEN DESIGNED FOR FLOOD LOADING. IF FENCE / BARRIER ARE REQUIRED TO RESIST FLOOD LOADING, THE PROJECT ENGINEER (RPEQ) WILL NEED TO ASSESS THE SUITABILITY OF THE BSD FOR USE AND MODIFY THE DESIGN AS REQUIRED.
7. NECESSARY DDA COMPLIANCE REQUIREMENTS IN ACCORDANCE WITH AS 1428.1 ARE TO BE ASSESSED AND COMPLIED BY THE PROJECT ENGINEER (RPEQ) FOR EACH PROJECT.
8. POSTS TO BE VERTICAL.
9. ALL HORIZONTAL RAILS TO BE ROLLED TO MATCH SHAPE OF PATH/WALL IF RADIUS IS LESS THAN 20m.
10. MINIMUM LENGTH OF RAILS TO BE 2 SPANS LONG TO MINIMISE NEED FOR JOINTS AT EVERY POST.
11. EXPANSION JOINTS SHALL BE PROVIDED IF THE LENGTH OF HANDRAIL EXCEEDS 20m.
12. DIMENSIONS IN MILLIMETRES (U.N.O.).

- S1. CIRCULAR HOLLOW STEEL SECTIONS SHALL BE IN ACCORDANCE WITH AS1163 GRADE C250LO. STEEL PLATES SHALL BE IN ACCORDANCE WITH AS/NZS3678 GRADE 250.
- S2. ALL STEELWORK TO BE HOT DIPPED GALVANISED IN ACCORDANCE WITH AS/NZS4680 U.N.O.
- S3. ALL WELDS TO BE 4mm THICK C.F.W. (CONTINUOUS FILLET WELDS) TO AS1554.1 U.N.O. WELDS TO BE MADE USING ELECTRODES WITH A NOMINAL TENSILE STRENGTH OF 490MPa (OR BETTER) TO AS/NZS1554.
- S4. STEELWORK MAY BE POWDER COATED (AFTER GALVANISING). HOT DIPPED GALVANISED SURFACES THAT ARE TO BE POWDER COATED ARE TO BE CLEANED AND PREPARED IN ACCORDANCE WITH AS4506 AND THE POWDER COATING MANUFACTURER'S WRITTEN INSTRUCTIONS, ENSURING EXCESSIVE REMOVAL OR DAMAGE OF THE ZINC COATING DOES NOT OCCUR. POWDER COATING PROCEDURES TO BE IN ACCORDANCE WITH AS4506 AND THE POWDER COATING MANUFACTURER'S SPECIFICATIONS. POWDER COATING SHALL BE SUFFICIENT FOR A MINIMUM C3 EXPOSURE CLASSIFICATION AND HAVE A MINIMUM MAINTENANCE FREE LIFE OF 25 YEARS. COLOUR OF POWDER COATING TO MATCH COLOUR COORDINATION IN THE AREA (IN ACCORDANCE WITH BCC CORPORATE COLOUR PALETTE - REFER BSD-1003).
- S5. PROTECTIVE COATING TO BE APPLIED AFTER ALL FABRICATION COMPLETED. NO WELDING ETC. TO BE CARRIED OUT DURING OR AFTER APPLICATION OF COATING SYSTEM.
- S6. ANY POST GALVANISING DAMAGE TO BE MADE GOOD WITH AN ORGANIC EPOXY ZINC RICH PAINT CONFORMING TO AS/NZS3750.9. PAINT TO BE APPLIED TO THE REPAIR AREAS IN TWO COATS. EACH COAT SHALL HAVE A MINIMUM DRY FILM THICKNESS OF 50 MICRON AND SHALL BE APPLIED AS PER THE MANUFACTURER'S SPECIFICATIONS.

- SS1. STAINLESS STEEL MATERIAL SHALL NOT BE STORED WITH CARBON STEEL.
- SS2. TOOLS USED FOR CARBON STEEL SHALL NOT BE USED TO FABRICATE OR ASSEMBLE STAINLESS STEEL COMPONENTS.
- SS3. THE STAINLESS STEEL SHALL BE WRAPPED OR OTHERWISE PROTECTED DURING TRANSPORT TO AVOID CONTAMINATION BY FERROUS PRODUCTS.
- SS4. WELDS SHALL BE 4mm C.F.W. (U.N.O.) CATEGORY 2B IN ACCORDANCE WITH AS1554.6 GRADE 316 ELECTRODES SHALL BE USED FOR GRADE 316L.
- SS5. LIMIT THE INPUT OF HEAT INTO THE WELD. THE WELD SHALL NOT BE PREHEATED, POST-HEATED OR STRESS RELIEVED.
- SS6. SURFACE FINISH OF WELDS SHALL BE GRADE 1, POLISHED USING 320 GRIT OR FINER, SILICONE CARBIDE ABRASIVES WITH LUBRICATION. AFTER POLISHING, WELDS SHALL BE PASSIVATED USING NITRIC ACID IN ACCORDANCE WITH ASTM A380.
- SS7. ALL STAINLESS STEEL COMPONENTS SHALL HAVE A  $RA < 0.5\mu m$  AND PASSIVATED USING NITRIC ACID IN ACCORDANCE WITH ASTM A380.



### BASE PLATE DETAIL - TYPE 1

5

4-M16 4.6/S CAST IN-SITU GALVANISED BOLTS OR 4-M16 GALVANISED CHEMICAL ANCHORS INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS AND ENSURE REINFORCEMENT IS NOT DAMAGED DURING DRILLING WORKS (CAPACITY OF CHEMICAL ANCHORS TO BE CONFIRMED BY THE PROJECT ENGINEER (RPEQ))

CONCRETE EDGE

CENTRELINE OF RAILS

150x135x12 GALVANISED MS PLATE

PLAN

### BASE PLATE DETAIL - TYPE 2

Diagram illustrating the connection of a post to a rail using a sleeve and weld.

Labels and Dimensions:

- POST
- 10 GAP
- RAILS
- 5
- 50 MAX
- 33.7x4.0 CHS SLEEVE x 115 LONG
- WELD ONE SIDE ONLY (3 C.F.W. ALL ROUND)

RAIL EXPANSION JOINT AT 20.0m MAX. CTS  
(FOR CONTINUOUS HANDRAIL LENGTHS)

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).

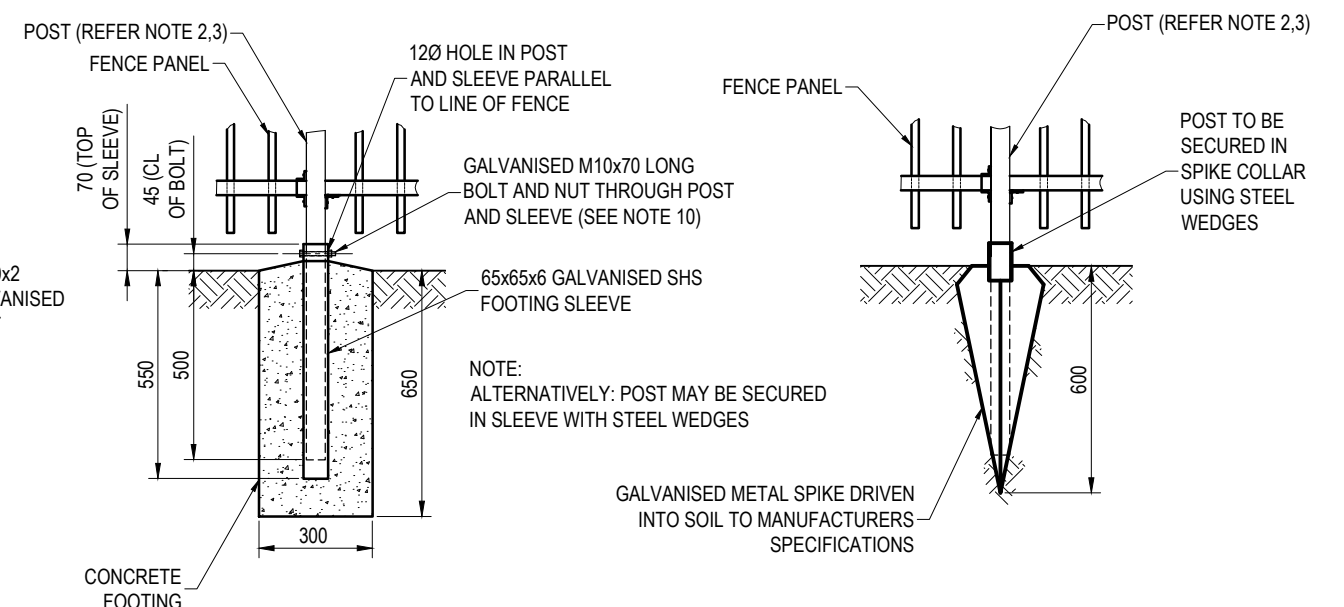
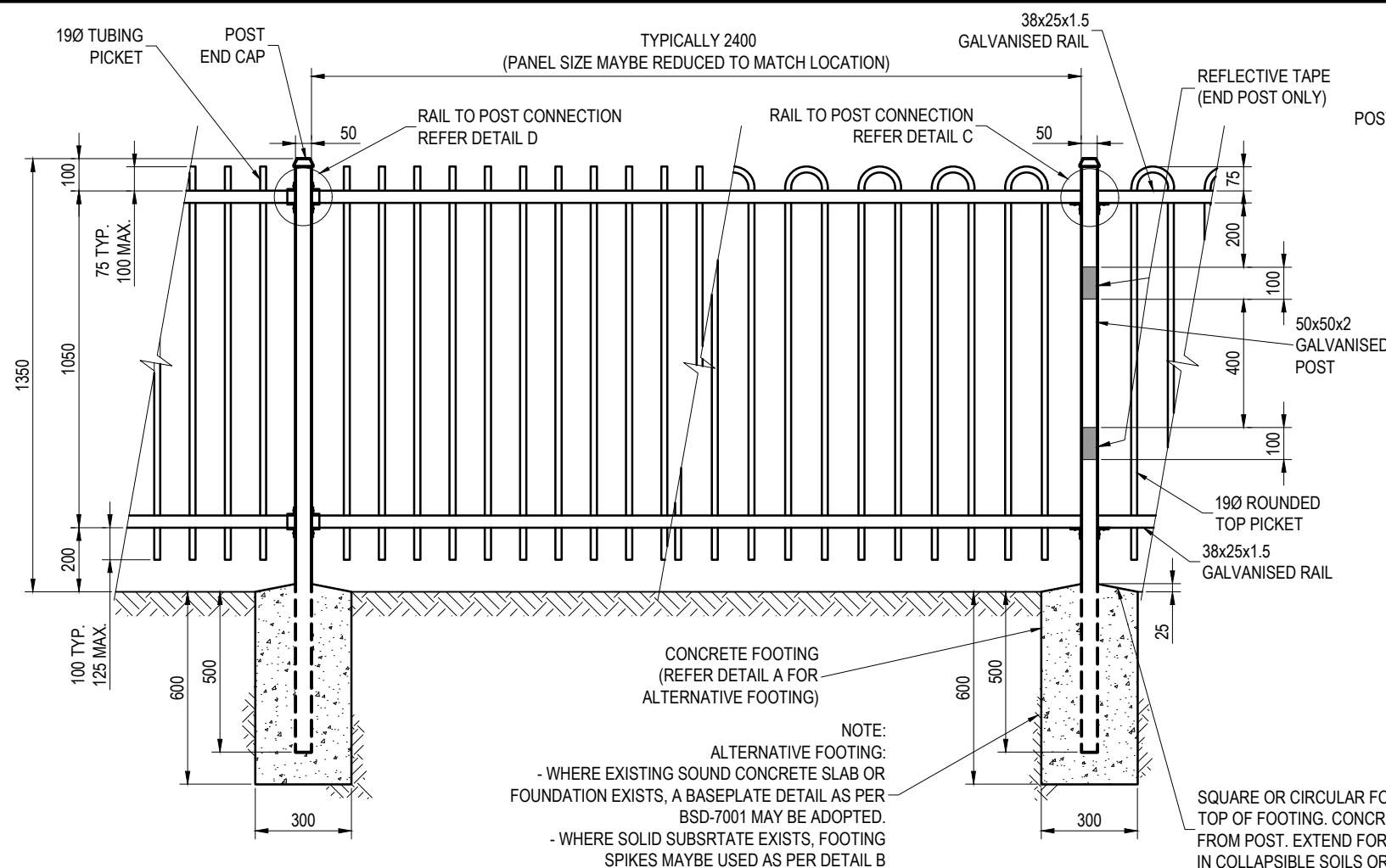


PEDESTRIAN FENCE/BARRIER  
GALVANISED TUBULAR HANDRAIL  
SHEET 2 OF 2

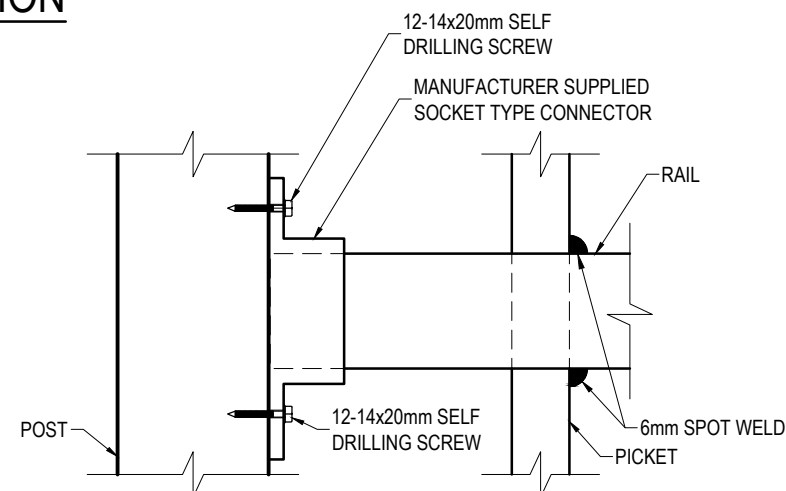
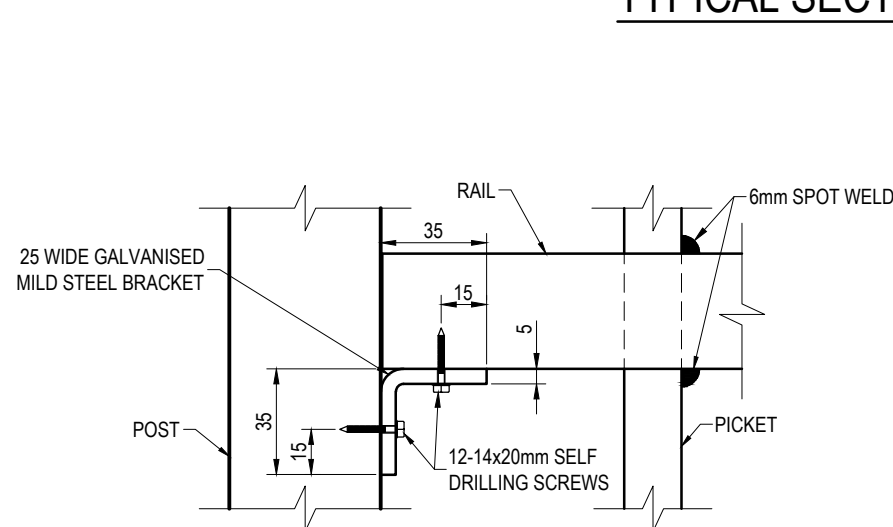
PUBLISH DATE		JUN 2023	
SCALE		NOT TO SCALE	
DRAWING NUMBER		BSD-7001	
ORIGINAL SIZE		REVISION	
A3			







## TYPICAL SECTION





## SPECIAL NOTE


PEDESTRIAN SAFETY FENCING TO BE USED ONLY IN SITUATIONS CLEAR OF POTENTIAL VEHICLE IMPACT OR NOT WITHIN THE CLEAR ZONE SO AS NOT TO BE A HAZARD TO VEHICLES.  
WHERE A SITUATION SUCH AS THIS EXISTS, A WELDED MESH FENCE IS TO USED - REFER BSD-7002.

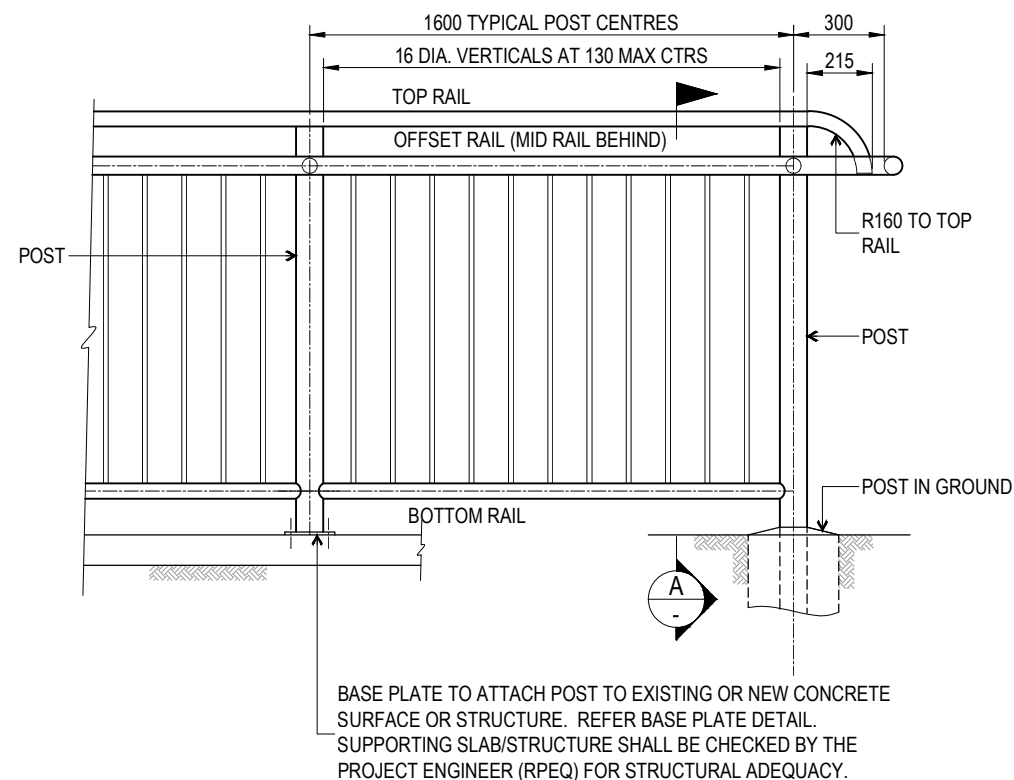
NOTES:

1. THIS STANDARD IS NOT FOR USE IN A MARINE ENVIRONMENT. THE MARINE ENVIRONMENT COULD EXTEND UP TO 1 km FROM THE FORESHORE.
2. GATE, END AND INTERMEDIATE POSTS TO BE 50x50x2 GALVANISED STEEL SECTION TO AS 1163.
3. FENCE RAILS TO BE 38x25x1.5 GALVANISED STEEL SECTION TO AS 1163.
4. PANELS TO BE FIXED TO POSTS USING MANUFACTURER SUPPLIED SOCKET CONNECTORS OR 25 WIDE 35x35x2 GALVANISED MILD STEEL 'L' BRACKETS. BOTH CONNECTORS TO BE ATTACHED WITH GALVANISED 12-14x20mm HEXAGON HEAD SELF DRILLING (TEK) SCREWS.
5. PANELS TO BE 2400x1050 WITH 19 DIAMETER PICKETS, EITHER STRAIGHT TUBULAR OR ROUNDED TOP STYLE.
6. PICKETS TO PASS THROUGH TOP AND BOTTOM RAIL AND BE SECURED TO TOP AND UNDERSIDE OF RAIL WITH 6mm SPOT WELD.
7. HOT DIP GALVANISING: FERROUS OPEN SECTIONS TO AS 4791, FERROUS HOLLOW SECTIONS TO AS 4792.
8. ALL CONCRETE TO BE GRADE N25.
9. POSTS ARE TO BE VERTICAL.
10. POST SPIKES, WHERE USED, ARE TO BE INSTALLED TO MANUFACTURERS SPECIFICATIONS.
11. WHERE SLEEVES OR POST SPIKES ARE USED, POSTS ARE TO BE SECURED WITH BOLTS AS SHOWN OR STEEL WEDGES.
12. NUTS (WHERE USED) TO BE SPOT WELDED TO BOLTS AS AN ANTI-THEFT DETERRENT.
13. RAKED PANELS ARE AVAILABLE FOR SLOPES UP TO 1 IN 5.
14. THESE FENCES ARE INTENDED AS A PEDESTRIAN BARRIER AND ARE NOT TO BE USED IN SITUATIONS WHERE MOTOR VEHICLES REQUIRE RESTRAINT.
15. STEEL WORK TO BE POWDER COATED TO AS 4506 TO MATCH COLOUR CO-ORDINATION IN THE AREA. COLOUR FOR TRAFFIC APPLICATIONS TO BE EITHER BCC CORPORATE COLOUR PALETTE "GREY 3" (AS 2700-1996 "N65 GRAPHITE GREY" EQUIV.), "BLUE 3" (AS 2700S-1996 "B62 MIDNIGHT BLUE" EQUIV.), "GREEN 1" (AS 2700-1996 "G12 HOLLY" EQUIV.) OR BLACK (AS 2700-1996 "N61 BLACK" EQUIV.).
16. 100mm WIDE REFLECTIVE TAPE TO BE APPLIED TO END POSTS WHERE VEHICLE TRAFFIC CONFLICT MAY OCCUR.
17. DIMENSIONS IN MILLIMETRES (UNO).

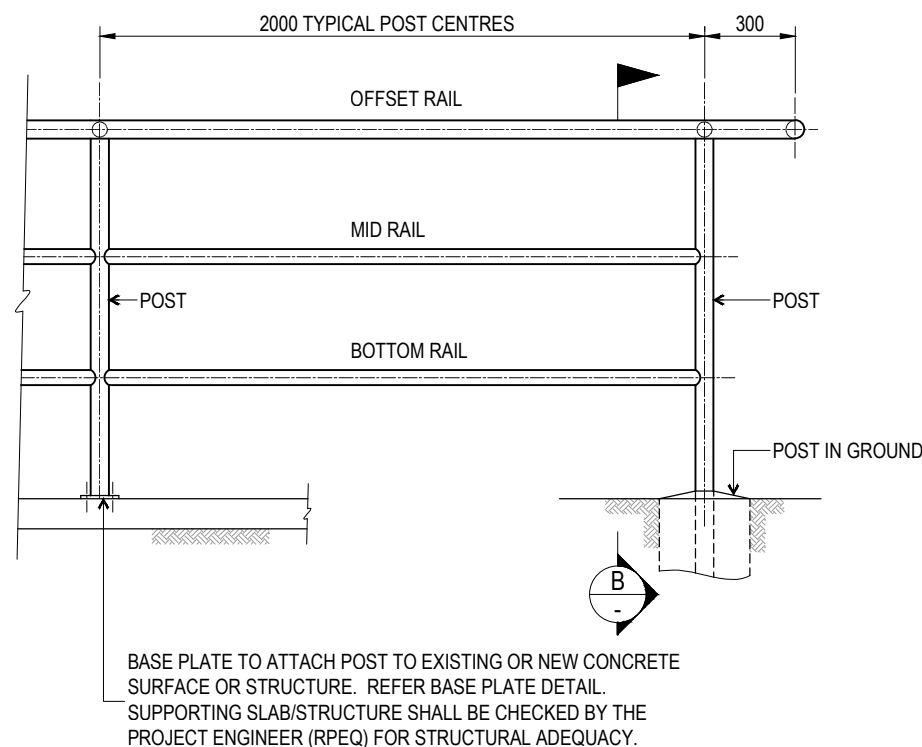
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C	Pailing Extension Dim. (Above/Below Rail) & Special Noted Added	MAY '18	JUL '18	NOV '18		DRAWN	UMD-IM (DL)	DATE	MAR '04						Dwg No.		BSD-7004	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	UMD-IM	DATE	JUL '04				FENCE PEDESTRIAN SAFETY		ORIGINAL SIZE		REVISION	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-7004 (C) Fence - Pedestrian safety.dwg								A3		C	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS-247											



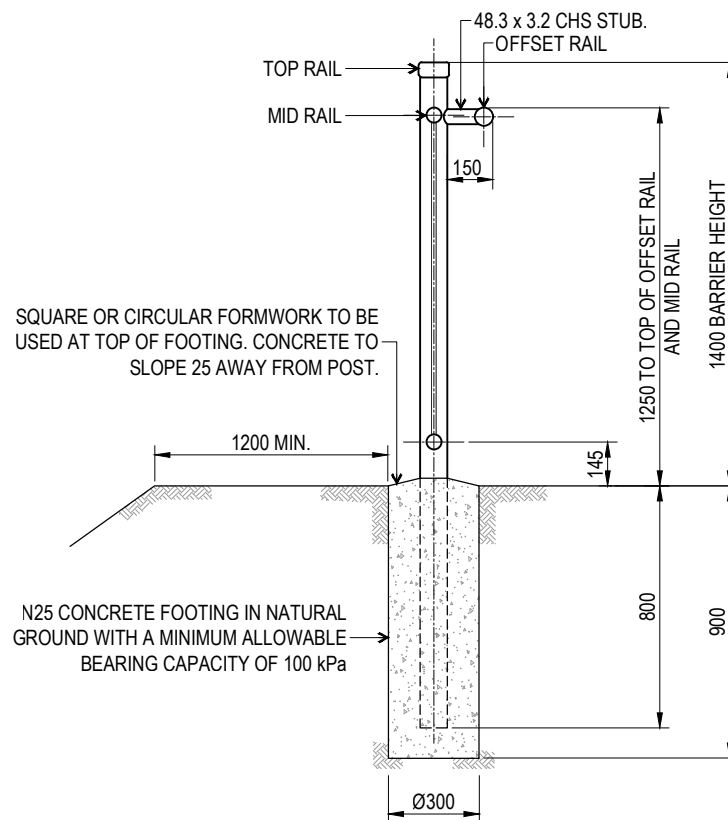
					<b>DRAWING AUTHORISED FOR PUBLICATION</b> PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/03/05 R.P.E.Q: 2546 ----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT <b>DESIGN APPROVED</b> BRUCE HANSEN SIGNATURE ON ORIGINAL DATED MAR '05 ----- PRINCIPAL ENGINEER STRATEGIC INFRASTRUCTURE MANAGEMENT	DESIGN	UMD-IM (DL)	DATE	FEB '04		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>  FENCE - TWO RAIL, STEEL HOLLOW SECTION POST AND RAIL FENCE			SCALE		NOT TO SCALE	
C	Special Notes Added	JAN '19	APR '19	APR '19		DRAWN	UMD-IM (DL)	DATE	FEB '04					DWG No.	BSD-7005		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	BH	DATE	MAR '05					ORIGINAL SIZE	REVISION		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-7005 (C) Fence - Two rail, steel hollow section post and rail.dwg							A3		C	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS-248										



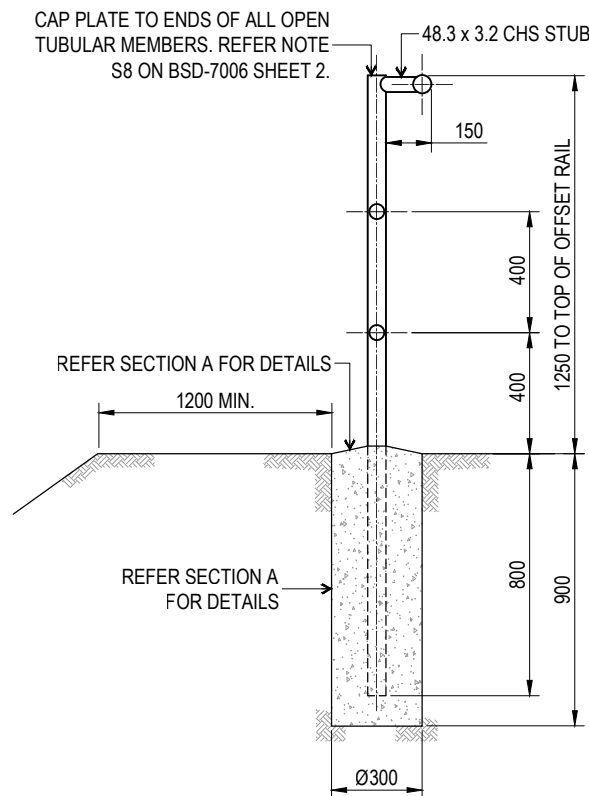
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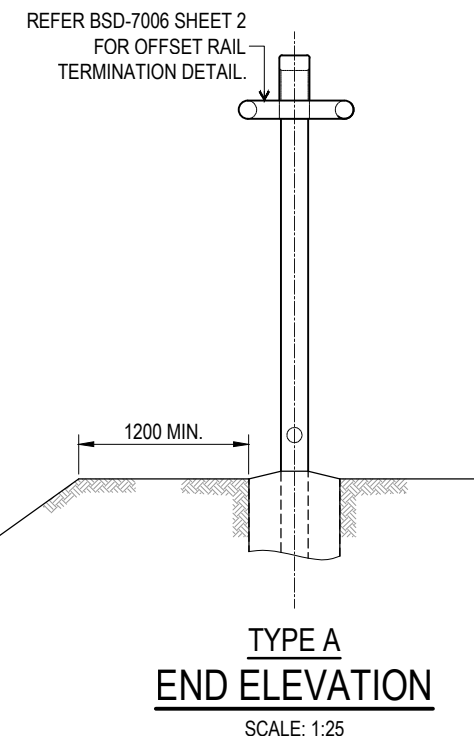
(NOT TO BE USED WHERE FALL HEIGHT IS 1.0m OR GREATER)  
**ELEVATION TYPE B**  
SCALE: 1:25



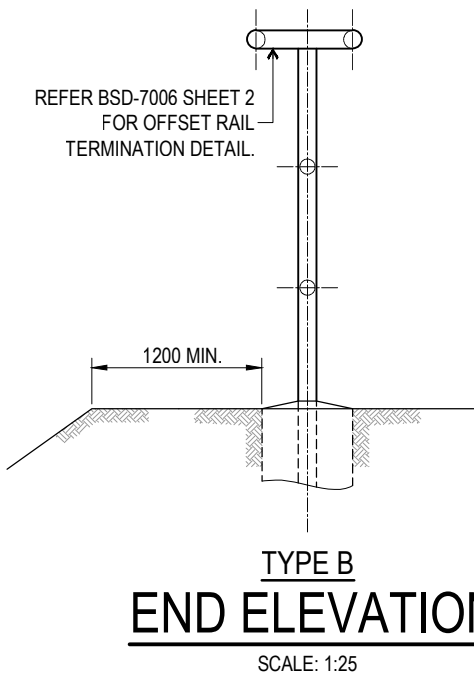
**SECTION A**  
SCALE: 1:25



**SECTION B**  
SCALE: 1:25



**TYPE A  
END ELEVATION**  
SCALE: 1:25



**TYPE B  
END ELEVATION**  
SCALE: 1:25

## NOTES:

1. REFER DRAWING BSD-7006 SHEET 2 FOR DRAWING NOTES AND STANDARD DETAILS

MEMBER SCHEDULE - TYPE A	
ELEMENT	MEMBER
POSTS	88.9 x 5.0 CHS
TOP RAIL	100 x 50 x 4.0 RHS
MID RAIL	48.3 x 3.2 CHS
BOTTOM RAIL	48.3 x 3.2 CHS
OFFSET RAIL	60.3 x 3.6 CHS

MEMBER SCHEDULE - TYPE B	
ELEMENT	MEMBER
POSTS	60.3 x 5.4 CHS
TOP RAIL	N/A
MID RAIL	48.3 x 3.2 CHS
BOTTOM RAIL	48.3 x 3.2 CHS
OFFSET RAIL	60.3 x 3.6 CHS

## ATTENTION:

- BICYCLE FRIENDLY TUBULAR HANDRAILS TO BE USED ONLY IN SITUATIONS CLEAR OF LONGITUDINAL VEHICLE IMPACT SO AS TO AVOID A POTENTIAL SPEARING HAZARD TO MOTORISTS. THESE HANDRAILS ARE INTENDED AS A BIKE BARRIER AND ARE NOT TO BE USED IN SITUATIONS WHERE MOTOR VEHICLES/ CROWDS/ PEOPLE UNDER PANIC CONDITIONS REQUIRE RESTRAINT.
- PROJECT ENGINEER (RPEQ) TO CARRY OUT AN ASSESSMENT IN ACCORDANCE WITH THE RELEVANT STANDARDS TO DETERMINE WHICH BARRIER TYPE IS TO BE USED.
- BICYCLE FRIENDLY TUBULAR HANDRAILS ON THIS BSD HAVE NOT BEEN DESIGNED FOR FLOOD LOADING. IF HANDRAILS ARE REQUIRED TO RESIST FLOOD LOADING, THE PROJECT ENGINEER (RPEQ) WILL NEED TO ASSESS THE SUITABILITY OF THE BSD FOR USE AND MODIFY THE DESIGN AS REQUIRED.
- THIS BSD IS NOT FOR USE IN A MARINE ENVIRONMENT OR ENVIRONMENTS WITH A CORROSIVITY CATEGORY OF C4 OR GREATER IN ACCORDANCE WITH AS2312.1

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).



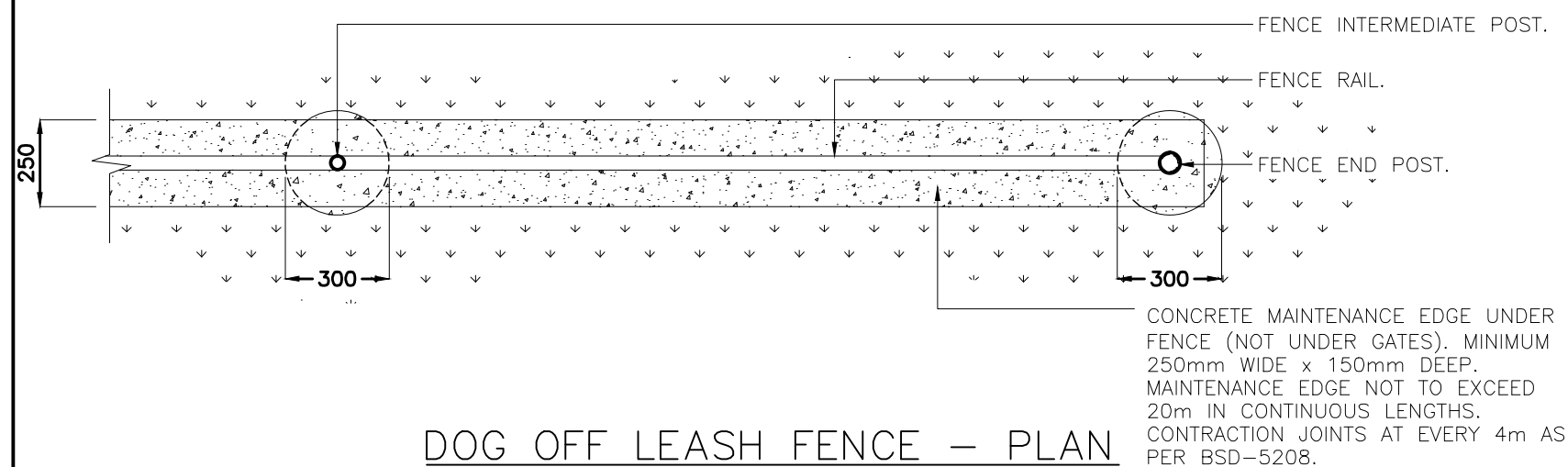
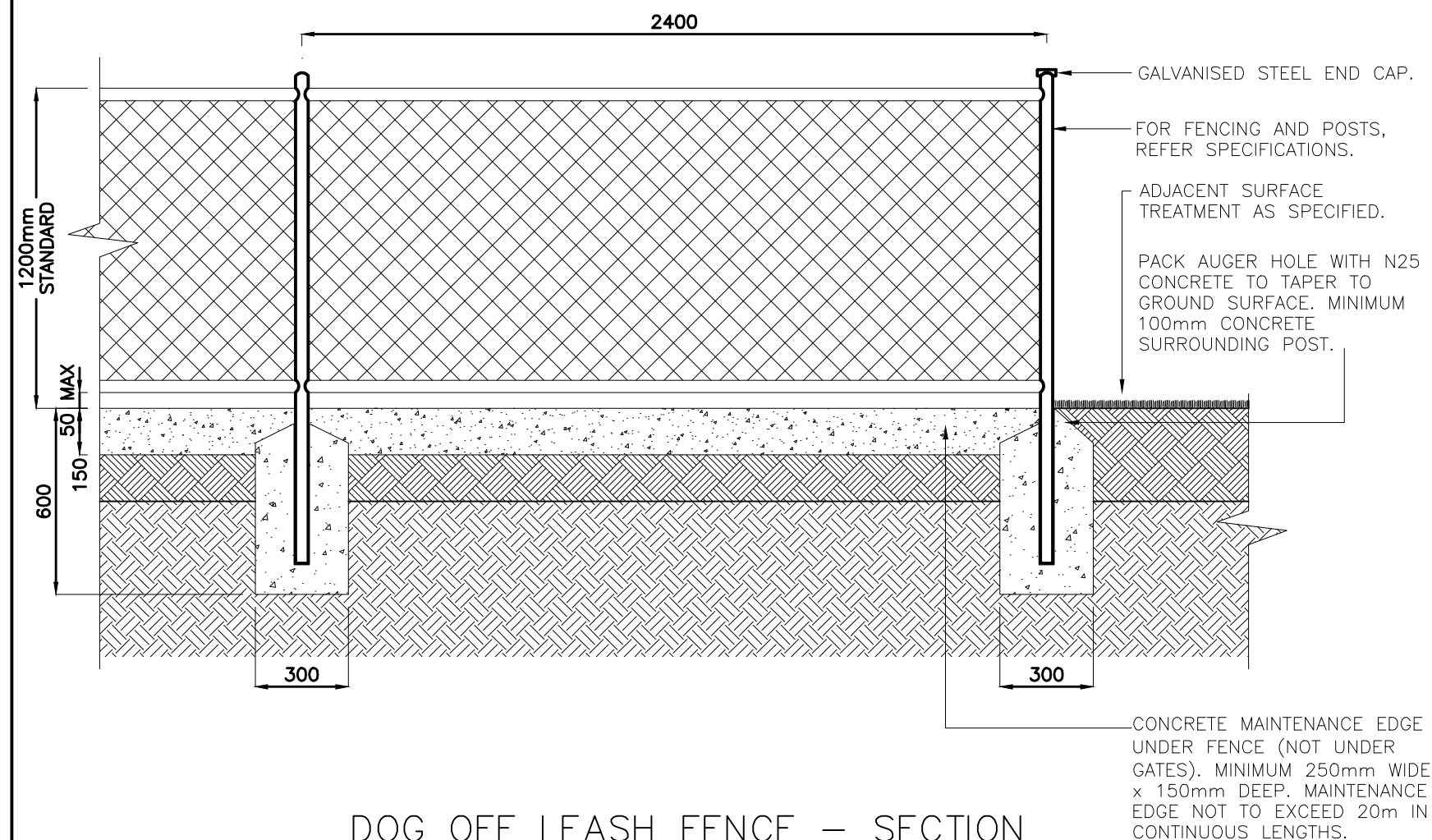
BRISBANE CITY COUNCIL STANDARD DRAWING

BICYCLE FRIENDLY FENCE  
GALVANISED TUBULAR HANDRAIL  
SHEET 1 OF 2

PUBLISH DATE	DEC 2023
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-7006
ORIGINAL SIZE	A3
REVISION	D

PUBLISH DATE		DEC 2023	
SCALE		NOT TO SCALE	
DRAWING NUMBER		BSD-7006	
ORIGINAL SIZE		REVISION	
A3		1	





## GENERAL NOTES & SPECIFICATIONS


- ENSURE DOG OFF LEASH FENCE 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 LOCALLY SOURCED.
- ENSURE DOG OFF LEASH FENCE IS 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. "BCC GREY 3" (AS 2700. "N65 GRAPHITE GREY" EQUIVALENT).
- STANDARD IS NOT FOR USE IN A MARINE ENVIRONMENT. THE MARINE ENVIRONMENT COULD EXTEND UP TO 1 km FROM THE FORESHORE.
- FOR NON-MARINE ENVIRONMENT, SUPPLY AND INSTALL 1200mm HIGH GALVANISED FENCE POST WITH TOP AND BOTTOM RAIL. ALL POSTS, RAILS AND FITTINGS TO BE GALVANISED STEEL TUBE TO AS 1163 THEN POWDER COATED.
- WHERE STANDARD IS REQUIRED FOR USE WITH MARINE ENVIRONMENT, THE FOLLOWING PROTECTION TREATMENT FOR STEELWORK IS REQUIRED:
  - HOT DIP GALVANISING: 85 MICRONS (600g/m<sup>2</sup>) MIN.
  - SWEEP ABRASIVE BLAST.
  - FIRST COAT: EPOXY PRIMER 75 MICRONS MIN.
  - SECOND COAT: TWO PACK ACRYLIC OR POLYURETHANE GLOSS 75 MICRONS MIN.
- ALL CHAINWIRE AND TIE WIRE (BOTH MARINE AND NON-MARINE APPLICATIONS) TO BE PVC COATED REFER BSD-7032 FOR SINGLE AND DOUBLE GATE REQUIREMENTS.
- OTHER SPECIFICATIONS:
  - GATE, CORNER AND END POSTS (CAPPED) – 50NB (60.3 OD, 3.6 THICK).
  - INTERMEDIATE (POSTS CAPPED) – 40NB (48.3 OD, 3.2 THICK).
  - RAILS AND BRACES – 40NB (48.3 OD, 3.2 THICK).
  - CHAINWIRE – 50mm NOMINAL MESH WITH 2.5mm PVC COATED WIRE.
  - CABLES & STRINGERS – PVC COATED 3.15mm.
  - PANELS – MAXIMUM SPAN – 2400mm.
- ALL POSTS ARE TO BE CONCRETED INTO GROUND 300x600mm DEEP.
- MAX. GAP OF 50mm UNDER FENCE. ANY GAPS BELOW FENCE OF MORE THAN 100mm ARE TO BE COVERED WITH INSTALLATION OF A BOTTOM STRINGER LINE, PVC COATED WITH AN IN LINE TENSIONER.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

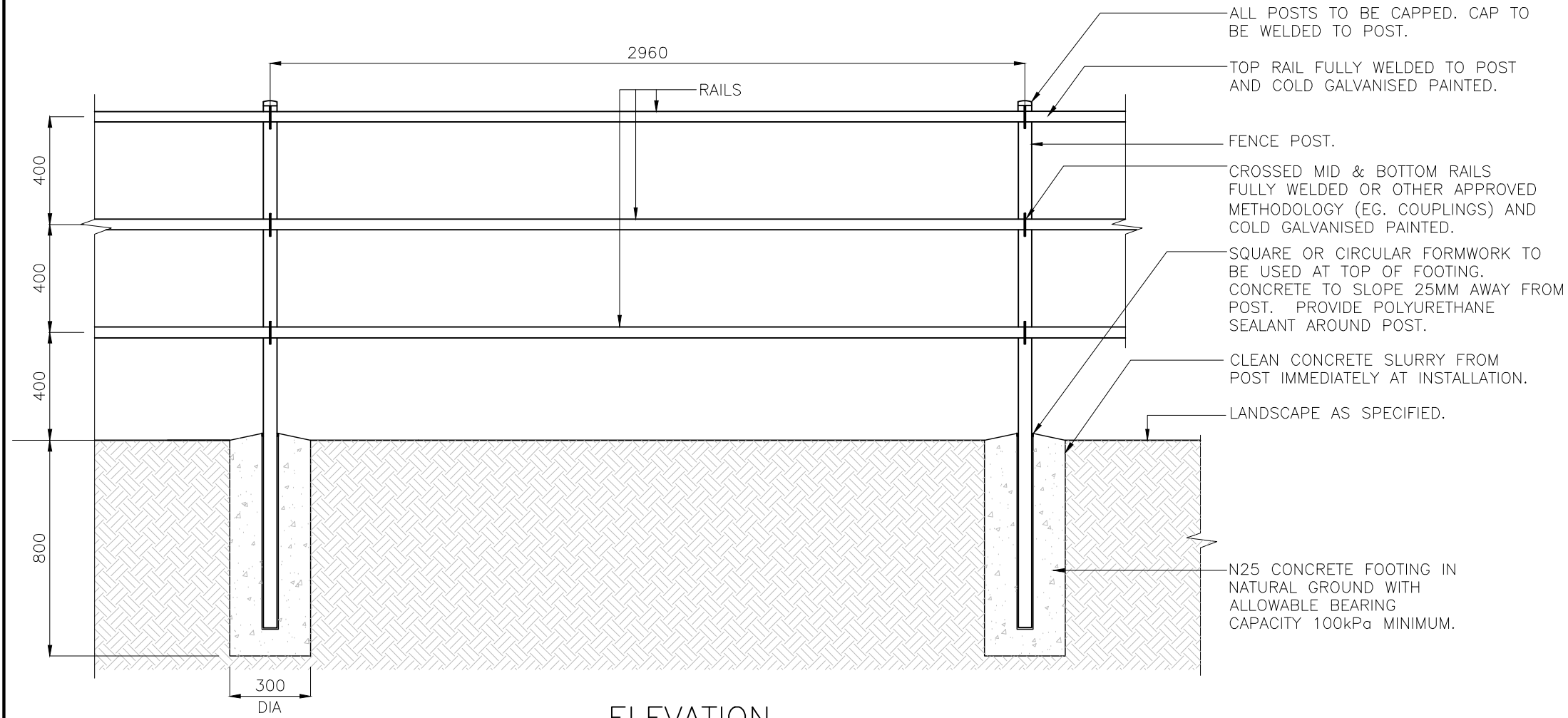
## FIXTURES/FITTINGS & METAL WORK NOTES

- 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. IN VICINITY OF SALTWATER/SPRAY, ENSURE ALL FASTENERS ARE 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.
- ALL WELDS TO BE CONTINUOUS FILLET WELDS, GROUND OFF SMOOTH & FLUSH IN ACCORDANCE WITH AS 1554. GRIND SMOOTH EDGES & WELDS PRIOR TO HOT DIPPED GALVANISING OR APPLIED FINISHES.

# 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.

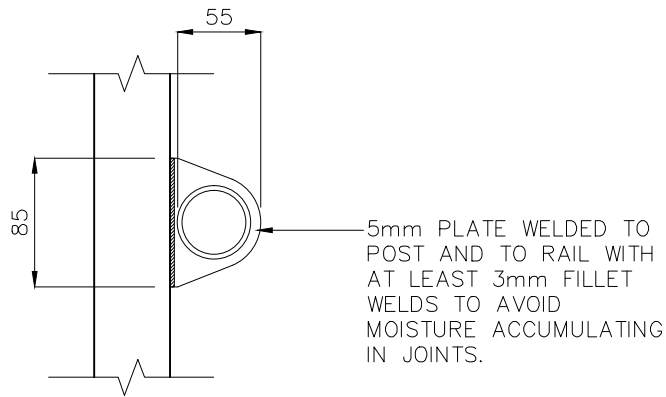
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.O: 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING			
						DRAWN	CPO - P&D	DATE	OCT '13		FENCE – DOG OFF LEASH AREA		SCALE 1:20 Dwg No. BSD–7007	
						CHECKED	UMD - E&P - IMB	DATE	OCT '13				ORIGINAL SIZE	REVISION
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWING FILENAME	BSD-7007 (A) Fence - Dog off leash area.dwg				A3	A		
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-726							
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS									



ELEVATION  
SCALE 1:20

MEMBER SCHEDULE	
ELEMENT	MEMBER
FENCE POST	60.3x3.6 CHS (50NB BLUE BAND)
GATE POST	114.3x4.5 CHS (100NB BLUE BAND)
RAILS	48.3x3.2 CHS (40NB BLUE BAND)

**SPECIAL NOTE**  
THE PURPOSE OF THIS STANDARD IS TO PROVIDE A BARRIER RESTRICTING ACCESS. IT IS NOT APPLICABLE FOR PROVIDING EDGE PROTECTION WHERE THERE IS RISK OF INJURY FROM A FALL GREATER THAN 1m. THIS INCLUDES LOCATIONS SUCH AS CULVERTS, BRIDGE CROSSINGS AND LARGE RETAINING WALLS.




SECTION  
SCALE 1:5

## GENERAL NOTES

- ENSURE THAT WORK IS IN ACCORDANCE WITH BRISBANE CITY COUNCIL ENVIRONMENTAL BEST PRACTICE NOTES.
- SITE SETOUT TO BE VERIFIED BY SUPERINTENDENT OR LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS.
- VERIFY LOCATION OF ALL SERVICES AND EASEMENTS PRIOR TO THE COMMENCEMENT OF WORKS.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DISTANCES.
- VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION.
- FOOTINGS HAVE BEEN DESIGNED ON THE ASSUMPTION THAT THE MINIMUM ALLOWABLE BEARING CAPACITY OF SOIL IS 100kPa.
- IN EACH CASE ENGINEERING CERTIFICATION AND MODIFICATION AS NECESSARY WILL BE REQUIRED FOR PARTICULAR SOIL AND SITE CONDITIONS.
- THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE BRISBANE CITY COUNCIL.
- DIMENSIONS IN MILLIMETRES (UNO)

## STEEL NOTES

- WHERE FENCE IS FOR USE IN A NON-MARINE ENVIRONMENT (MORE THAN 1KM FROM THE FORESHORE), THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:  
HOT DIP GALVANISING:
  - FERROUS OPEN SECTIONS TO AS4791
  - FERROUS HOLLOW SECTIONS TO AS4792STEEL WORK
  - MAY BE POWDERCOATED TO AS4506 – COLOUR 'MATT BLACK' IF REQUIRED.
- WHERE FENCE IS REQUIRED FOR USE WITHIN MARINE ENVIRONMENT (UP TO 1km FROM THE FORESHORE), THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:  
HOT DIP GALVANISING:
  - 85 MICRONS (600G/M<sup>2</sup>) MIN;
  - SWEEP ABRASIVE BLAST;STEELWORK FIRST COAT:
  - EPOXY PRIMER 75 MICRONS MIN;STEELWORK SECOND COAT:
  - TWO PACK ACRYLIC OR POLYURETHANE GLOSS 75 MICRONS MIN;
- PAINT SYSTEMS TO BE IN ACCORDANCE WITH AS2312 AND IS DESIGNATED HDG600P6.
- ALL STEEL TUBE TO AS/NZ1163.
- POSTS TO BE VERTICAL.
- ALL RAILS ARE SWAGED AND WELDED. SWAGES TO BE ON INSIDE OF FENCE AND NOT FACING PUBLIC ROADS, ETC).
- ALL JOINTS TO BE FULLY WELDED. WELDS TO BE 5 THICK C.F.W (CONTINUOUS FILLET WELDS) TO AS554.1 WITH COLD GALVANISING TREATMENT TO COMPLETED WELDS.
- PREFERRED COLD GALVANISING TREATMENT FOR IN-SITU WELDS, CUT ENDS OR OTHER BARE STEEL IS TO APPLY 2 COATS OF INORGANIC ZINC PRIMER APPLIED BY BRUSH.
- STANDARD COUPLINGS (MONOWILLS, SENTAURO JOINTS, KEE-KLAMP, SWAGED JOINTS OR SIMILAR) FOR POST TO RAIL CONNECTIONS MAY BE USED AS AN ALTERNATIVE TO WELDS WHERE APPROVED. 11° MAX REFLECTION FROM HORIZONTAL FOR STANDARD COUPLINGS. FOR ANGLES GREATER THAN 11°, SPECIALIST COUPLINGS MAY BE USED UPON APPROVAL FROM COUNCIL.

					DRAWING AUTHORISED FOR PUBLICATION  ----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED   SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE	DESIGN	CP0 - P&D	DATE	DEC '14		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>			
						DRAWN	CP0 - P&D	DATE	DEC '14					SCALE
						CHECKED	BI - FSG - AS	DATE	DEC '14		DWG No.	<b>BSD-7008</b>		
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14	DRAWING FILENAME	BSD-7008 (A) Fence - Natural area - Three rail.dwg					<b>FENCE NATURAL AREA THREE RAIL</b>		ORIGINAL SIZE	REVISION
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	ASSOCIATED PLANS								A3	A

GENERAL NOTES


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- SITE SETOUT TO BE VERIFIED BY SUPERINTENDENT OR LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS.
- VERIFY LOCATION OF ALL SERVICES AND EASEMENTS PRIOR TO THE COMMENCEMENT OF WORKS.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DISTANCES.
- VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION.
- FOOTINGS HAVE BEEN DESIGNED ON THE ASSUMPTION THAT THE MINIMUM ALLOWABLE BEARING CAPACITY OF SOIL IS 100kPa.
- IN EACH CASE ENGINEERING CERTIFICATION AND MODIFICATION AS NECESSARY WILL BE REQUIRED FOR PARTICULAR SOIL AND SITE CONDITIONS.
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- DIMENSIONS IN MILLIMETRES (UNO)

STEEL NOTES

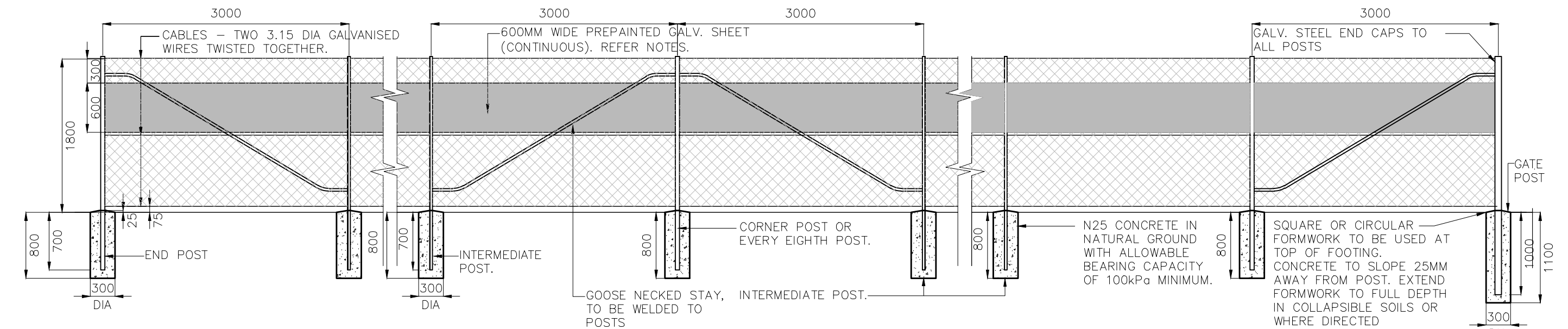
- WHERE FENCE IS FOR USE IN A NON–MARINE ENVIRONMENT (MORE THAN 1KM FROM THE FORESHORE),THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:  
HOT DIP GALVANISING:
  - FERROUS OPEN SECTIONS TO AS4791
  - FERROUS HOLLOW SECTIONS TO AS4792STEEL WORK
  - MAY BE POWDERCOATED TO AS4506 – COLOUR ‘MATT BLACK’ IF REQUIRED.
- WHERE FENCE IS REQUIRED FOR USE WITHIN MARINE ENVIRONMENT (UP TO 1km FROM THE FORESHORE), THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:  
HOT DIP GALVANISING:
  - 85 MICRONS (600G/M²) MIN;
  - SWEEP ABRASIVE BLAST;STEELWORK FIRST COAT:
  - EPOXY PRIMER 75 MICRONS MIN;STEELWORK SECOND COAT:
  - TWO PACK ACRYLIC OR POLYURETHANE GLOSS 75 MICRONS MIN;
- PAINT SYSTEMS TO BE IN ACCORDANCE WITH AS2312 AND IS DESIGNATED HDG600P6.
- ALL GALVANISED STEEL TUBE TO AS1163.
- STANDARD COUPLINGS (DOWN–EE FITTINGS) MAY BE USED AS AN ALTERNATIVE TO SWAGED JOINTS AND WELDS.
- GALVANISED STEEL END CAPS TO BE PROVIDED TO ALL POSTS.
- CORNER POSTS TO BE ADOPTED WHERE THE CHANGE IN ANGLE IN HORIZONTAL ALIGNMENT EXCEEDS 20 DEGREES..
- ALL WELDS TO BE 6 THICK C.F.W (CONTINUOUS FILLET WELDS) TO AS1554.1 WITH COLD GALVANISING TREATMENT TO COMPLETED WELDS.
- PREFERRED COLD GALVANISING TREATMENT FOR IN–SITU WELDS, CUT ENDS OR OTHER BARE STEEL IS TO APPLY 2 COATS OF INORGANIC ZINC PRIMER APPLIED BY BRUSH.
- 1800 CHAIN WIRE TO BE 3.15 THICK X 50 PITCH MESH GALVANISED PVC TO AS 2423.
- GOOSE NECKED STAYS TO BE PROVIDED AT END POSTS, GATE POSTS, CORNER POSTS AND EVERY EIGHTH POST.
- POSTS ARE TO BE VERTICAL.
- ALL CONCRETE TO BE N25.
- CHAIN WIRE TO BE FIXED USING 2.0 WIRE TIES AS FOLLOWS:
  - INTERMEDIATE POSTS AT 3 LOCATIONS
  - END POSTS AT 3 LOCATIONS
  - HORIZONTAL CABLE AT 375 CENTRES TO TOP CABLE
  - HORIZONTAL CABLE AT 600 CENTRES TO MIDDLE CABLE
  - HORIZONTAL CABLE AT 450 CENTRES TO BOTTOM CABLE
- GALV STEEL SHEETS TO BE POWDERCOATED OR PREPAINTED TO AS 2728, COLOURED ON BOTH SIDES. THE COLOUR SHALL BE ‘MIST GREEN OR ‘RIVER GUM’ SUBJECT TO FINAL APPROVAL BY SUPERINTENDENT. SHEETS SHALL BE 0.42MM BMT, OVERLAPPED AT POSTS ONLY AND FASTENED TO POST BY POP RIVETS AT 150 CENTRES. SHEETING TO BE ON PARK SIDE OF FENCE.

MEMBER SCHEDULE	
ELEMENT	MEMBER
END POST	60.3x3.6 CHS (50NB BLUE BAND)
CORNER POST	60.3x3.6 CHS (50NB BLUE BAND)
EVERY EIGHTH POST	60.3x3.6 CHS (50NB BLUE BAND)
INTERMEDIATE POST	42.4x3.2 CHS (32NB BLUE BAND)
GATE POST	88.9x3.2 CHS (80NB YELLOW BAND)
GOOSE NECKED STAY	42.4x3.2 CHS (32NB BLUE BAND)

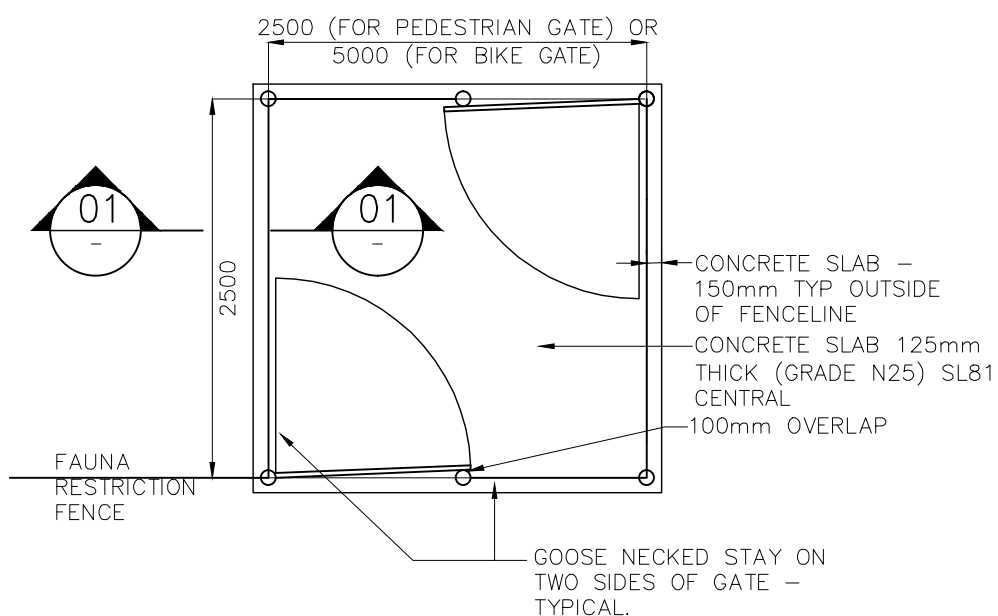
**SPECIAL NOTE**  
THE PURPOSE OF THIS STANDARD IS TO PROVIDE A BARRIER RESTRICTING ACCESS. IT IS NOT APPLICABLE FOR PROVIDING EDGE PROTECTION WHERE THERE IS RISK OF INJURY FROM A FALL GREATER THAN 1m. THIS INCLUDES LOCATIONS SUCH AS CULVERTS, BRIDGE CROSSINGS AND LARGE RETAINING WALLS.

					DRAWING AUTHORISED FOR PUBLICATION	DESIGN	CPO – P&D	DATE	DEC '14		BRISBANE CITY COUNCIL STANDARD DRAWING						
					----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	DRAWN	CPO – P&D	DATE	DEC '14		SCALE AS SHOWN						
						CHECKED	BI – FSG – AS	DATE	DEC '14		FENCE – NATURAL AREA – CHAINWIRE FAUNA EXCLUSION FENCE –						
						DRAWING FILENAME	BSD-7009 (A) Fence - Natural area - Chainwire fauna exclusion fence - Sheet 1 of 2.dwg				BSD–7009						
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14		ASSOCIATED PLANS	BSD-7009-Sheet 2				SHEET 1 OF 2						
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE						ORIGINAL SIZE A3						
												REVISION A					

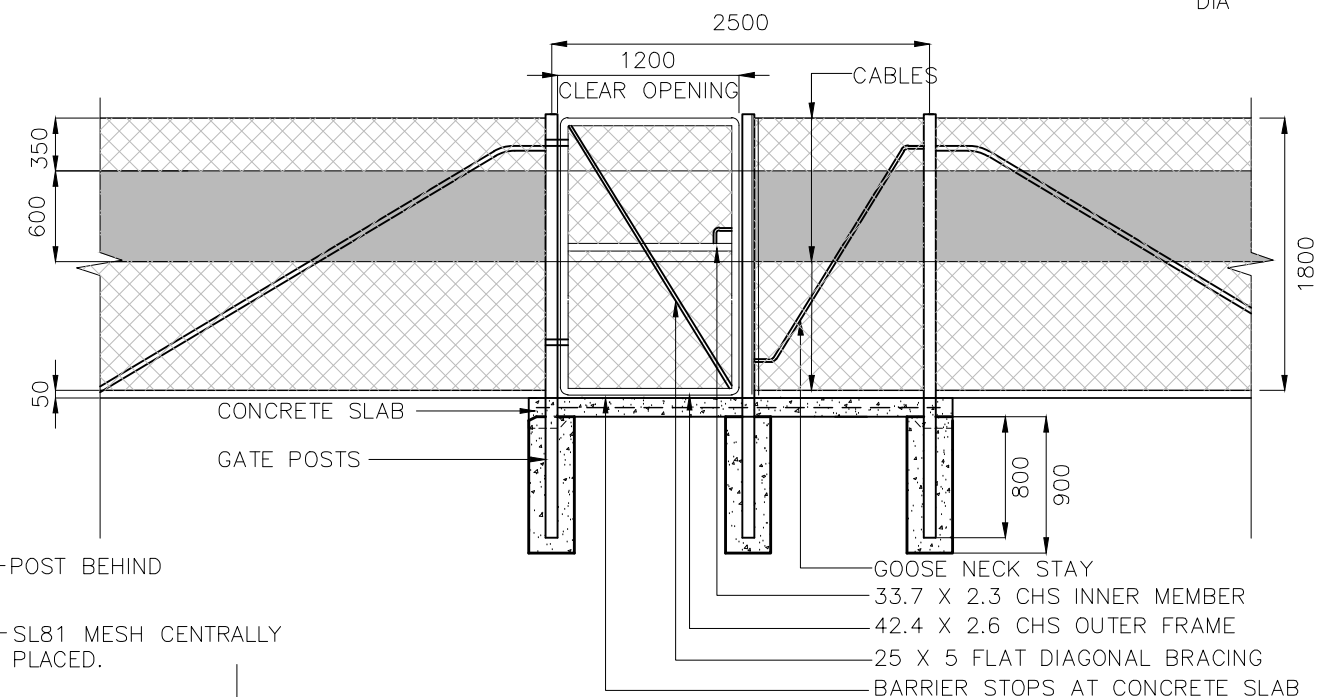




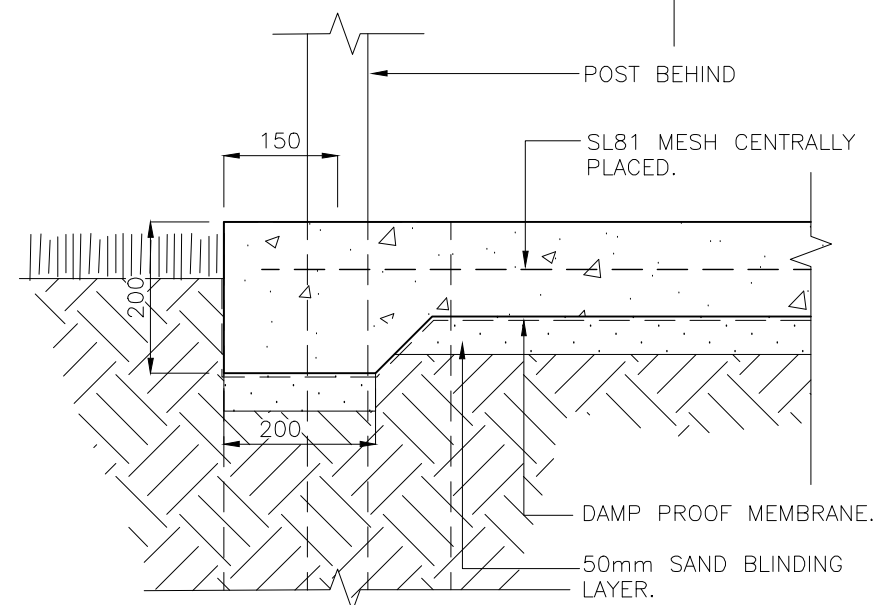
**ELEVATION**  
SCALE: 1:50




**TYPICAL PEDESTRIAN/BICYCLE GATE – PLAN**  
SCALE: 1:50

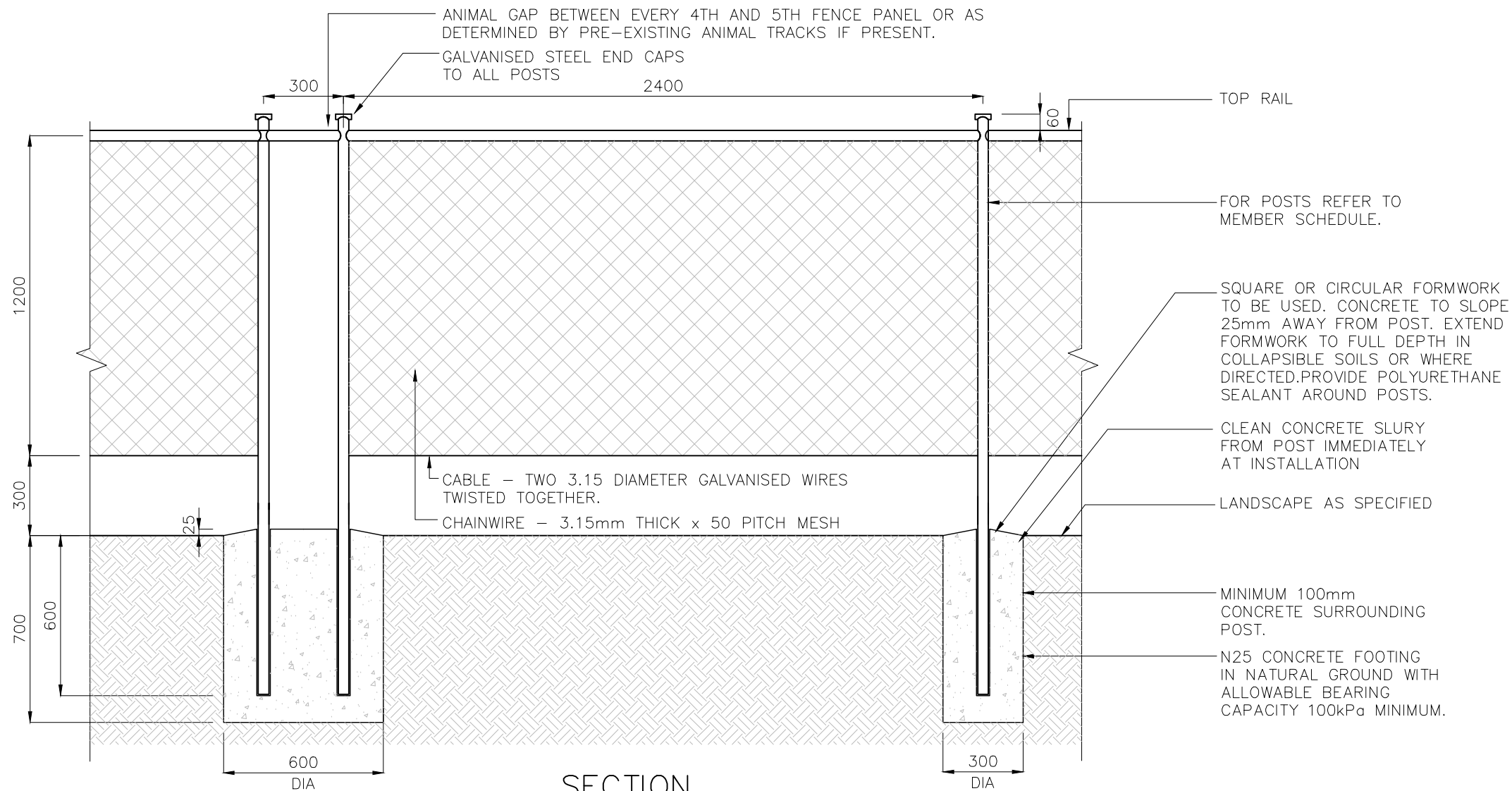


**TYPICAL PEDESTRIAN GATE – ELEVATION**  
SCALE: 1:50



**SECTION 1-1  
SLAB EDGE THICKENING DETAIL**  
SCALE: 1:10

					DRAWING AUTHORISED FOR PUBLICATION  ----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED  ----- SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE	DESIGN	CPO – P&D	DATE	DEC '14		BRISBANE CITY COUNCIL STANDARD DRAWING		
						DRAWN	CPO – P&D	DATE	DEC '14		SCALE AS SHOWN		
						CHECKED	BI – FSG – AS	DATE	DEC '14		DWG No. <b>BSD-7009</b>		
						DRAWING FILENAME	BSD-7009 (A) Fence - Natural area - Chainwire fauna exclusion fence - Sheet 2 of 2.dwg				FENCE – NATURAL AREA – CHAINWIRE FAUNA EXCLUSION FENCE – SHEET 2 OF 2		
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14		ASSOCIATED PLANS	BSD-7009-Sheet 1				ORIGINAL SIZE	REVISION	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE						A3	A		



SECTION  
1: 20

MEMBER SCHEDULE	
ELEMENT	MEMBER
END POST	60.3x2.3 CHS (50NB GREEN BAND)
CORNER POST	60.3x2.3 CHS (50NB GREEN BAND)
INTERMEDIATE POST	48.3x2.3 CHS (40NB GREEN BAND)
TOP RAIL	48.3x2.3 CHS (40NB GREEN BAND)

**SPECIAL NOTE**  
THE PURPOSE OF THIS STANDARD IS TO PROVIDE A BARRIER RESTRICTING ACCESS. IT IS NOT APPLICABLE FOR PROVIDING EDGE PROTECTION WHERE THERE IS RISK OF INJURY FROM A FALL GREATER THAN 1m. THIS INCLUDES LOCATIONS SUCH AS CULVERTS, BRIDGE CROSSINGS AND LARGE RETAINING WALLS.

FENCE FINISH  
TYPE 1

STANDARD GALVANISED.

TYPE 2

MATT BLACK PVC COATED CHAIN WIRE, SUPPORT CABLES AND LACING WIRE. ALL POSTS, FIXINGS, COUPLINGS AND WIRE TO BE MATT BLACK.

GENERAL NOTES


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- VERIFY LOCATION OF ALL SERVICES AND EASEMENTS PRIOR TO THE COMMENCEMENT OF WORKS.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DISTANCES.
- VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION.
- FOOTINGS HAVE BEEN DESIGNED ON THE ASSUMPTION THAT THE MINIMUM ALLOWABLE BEARING CAPACITY OF SOIL IS 100kPa.
- IN EACH CASE ENGINEERING CERTIFICATION AND MODIFICATION AS NECESSARY WILL BE REQUIRED FOR PARTICULAR SOIL AND SITE CONDITIONS.
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- DIMENSIONS IN MILLIMETRES (UNO)

STEEL NOTES

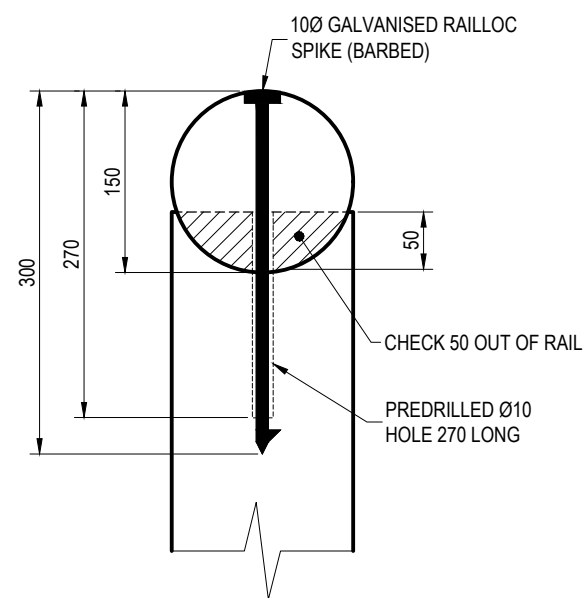
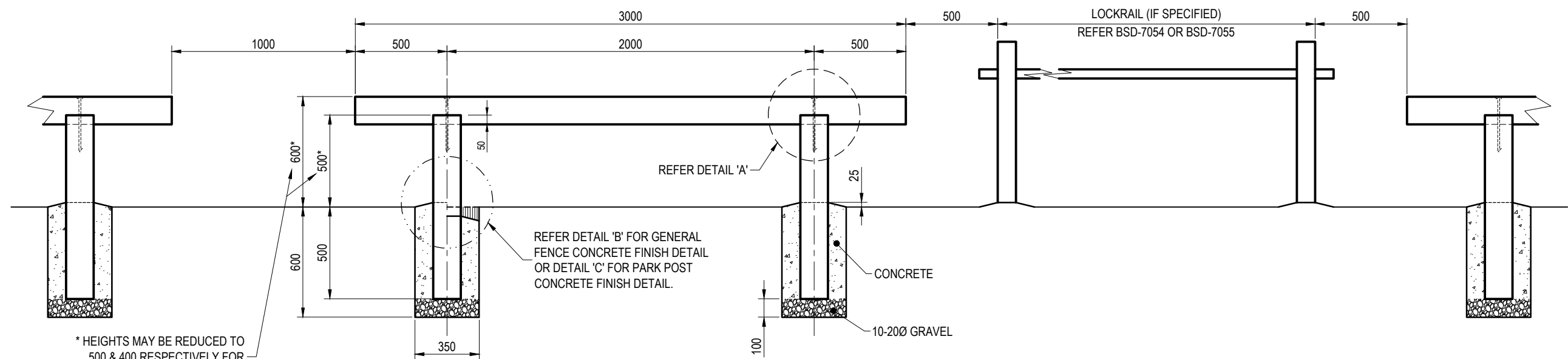
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HOT DIP GALVANISING:
  - FERROUS OPEN SECTIONS TO AS4791
  - FERROUS HOLLOW SECTIONS TO AS4792STEEL WORK
  - MAY BE POWDERCOATED TO AS4506 – COLOUR 'MATT BLACK' IF REQUIRED.
- WHERE FENCE IS REQUIRED FOR USE WITHIN MARINE ENVIRONMENT (UP TO 1km FROM THE FORESHORE), THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:  
HOT DIP GALVANISING:
  - 85 MICRONS (600G/M<sup>2</sup>) MIN;
  - SWEEP ABRASIVE BLAST;STEELWORK FIRST COAT:
  - EPOXY PRIMER 75 MICRONS MIN;STEELWORK SECOND COAT:
  - TWO PACK ACRYLIC OR POLYURETHANE GLOSS 75 MICRONS MIN;
- PAINT SYSTEMS TO BE IN ACCORDANCE WITH AS2312 AND IS DESIGNATED HDG600P6.
- ALL GALVANISED STEEL TUBE TO AS1163.
- STANDARD COUPLINGS (MONOWILLS, SENTAUR JOINTS, KEE-KLAMP, SWAGED JOINTS OR SIMILAR) MAY BE USED AS AN ALTERNATIVE TO WELDS WHERE APPROVED.
- GALVANISED STEEL END CAPS TO BE PROVIDED TO ALL POSTS.
- POSTS ARE TO BE VERTICAL.
- ALL CONCRETE TO BE GRADE N25.
- ALL WELDS TO BE 6 THICK C.F.W (CONTINUOUS FILLET WELDS) TO AS1554.1 WITH COLD GALVANISING TREATMENT TO COMPLETED WELDS.
- PREFERRED COLD GALVANISING TREATMENT FOR IN-SITU WELDS, CUT ENDS OR OTHER BARE STEEL IS TO APPLY 2 COATS OF INORGANIC ZINC PRIMER APPLIED BY BRUSH.
- CHAIN WIRE TO BE 3.15 THICK X 50 PITCH MESH GALVANISED PVC TO AS 2423.
- CHAIN WIRE TO BE FIXED AS FOLLOWS:
  - LACE CONTINUOUSLY TO RAILS (2.0MM WIRE)
  - TIE TO POSTS AT 3 LOCATIONS PER POST (SPACE EVENLY, USE 2.0MM WIRE)
  - TIE TO CABLE USING 2.0MM WIRE @ 375MM CENTRES

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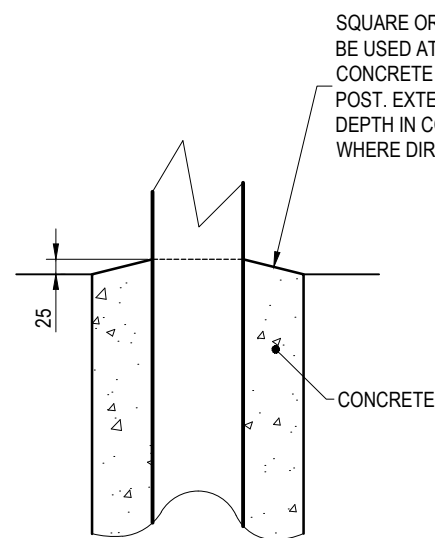


					DRAWING AUTHORISED FOR PUBLICATION  ----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED  ----- SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE	DESIGN	CPO - P&D	DATE	DEC '14		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>  FENCE NATURAL AREA CHAINWIRE HANDRAIL			SCALE		AS SHOWN	
						DRAWN	CPO - P&D	DATE	DEC '14					DWG No.	BSD-7011		
						CHECKED	BI - FSG - AS	DATE	DEC '14								
						DRAWING FILENAME	BSD-7011 (A) Fence - Natural area - Chainwire handrail.dwg							ORIGINAL SIZE	A3		
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14		ASSOCIATED PLANS								REVISION	A		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE													



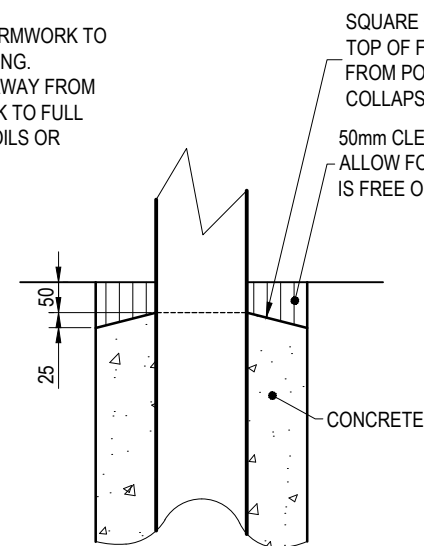


**DETAIL 'A'**



**DETAIL 'B'**

GENERAL FENCE CONCRETE FINISH DETAIL



**DETAIL 'C'**

PARK FENCE CONCRETE FINISH DETAIL

**NOTES:**

- ALL CONCRETE TO BE GRADE N25.
- LOG BARRIERS TO BE 150 DIAMETER, 'A' GRADE SUPERLOGS OR EQUIVALENT.
- ALL POSTS AND RAILS TO BE PRESERVATIVE TREATED TO HAZARD CLASS H4 TO AS1604.1 AND HAVE A DURABILITY CLASS 1 OR 2 TO AS5604. ALL POSTS AND RAILS SHALL EITHER BE:
  - CCA TREATED PINE FOR GENERAL USE (e.g. NOT WITHIN PARKS).
  - ACQ TREATED PINE FOR USE WITHIN PARKS.
- PRIOR TO INSTALLATION, ALL CUTS, EDGES, JOINTS TO RECEIVE LIBERAL COATINGS WITH AN APPROVED TIMBER PRESERVATIVE (CELLEVIT OR EQUIVALENT).
- ALL TIMBER TO BE FREE OF KNOTS, SPLINTERS, CRACKS OR ANY MAJOR DEFECT.
- WHERE USED ADJACENT TO OFF-ROAD BICYCLE FACILITIES, REFER TO STANDARD DRAWING BSD-5002.
- FENCE TYPE ONLY TO BE USED ONLY IN SITUATIONS CLEAR OF LONGITUDINAL VEHICLE IMPACT SO AS NOT TO BE A POTENTIAL SPEARING HAZARD TO MOTORISTS.
- IF A CONTINUOUS RAIL IS SPECIFIED, POSTS TO BE SPACED 2000.
- DIMENSIONS IN MILLIMETRES (U.N.O.).

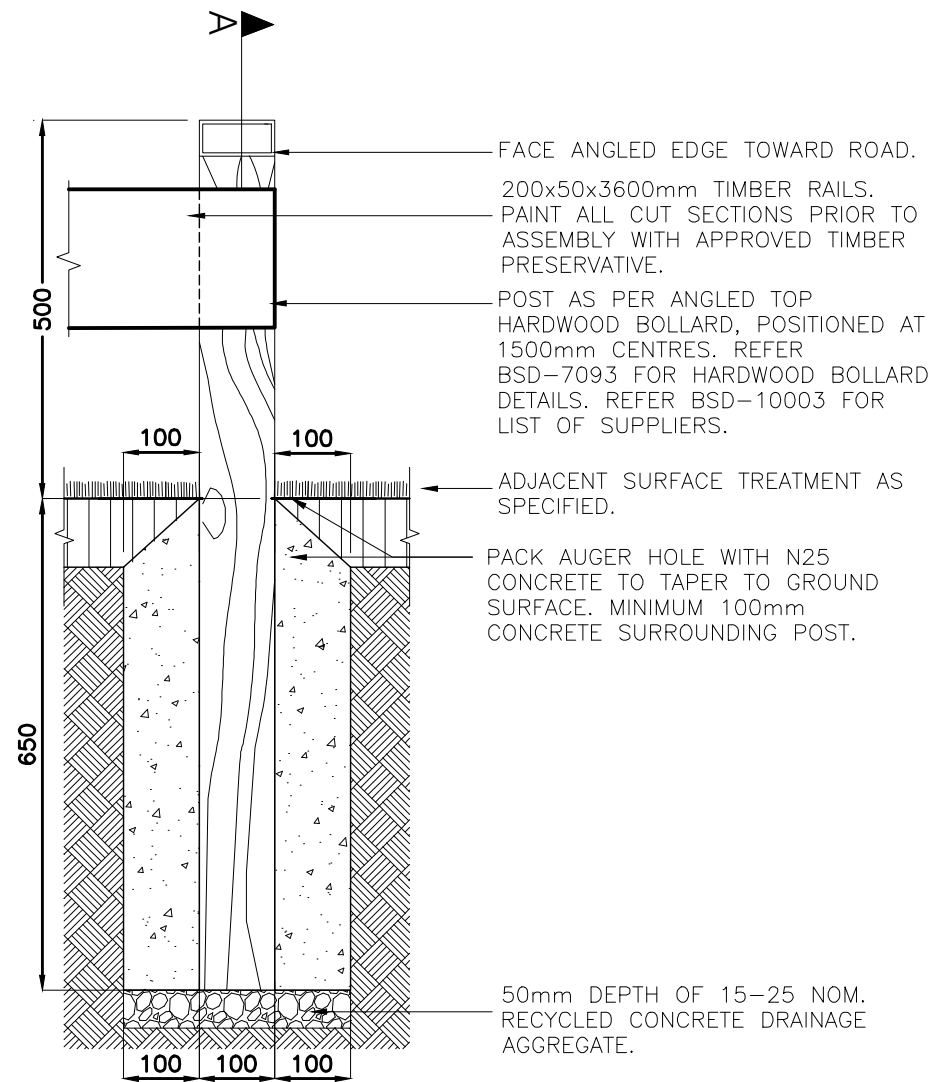
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

FENCE  
LOG BARRIER  
600mm HIGH

PUBLISH DATE	March 2021
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-7012
ORIGINAL SIZE	A3
REVISION	C



FOOTING, RAIL & POST – SECTION  
SCALE 1:10

## GENERAL NOTES & SPECIFICATIONS

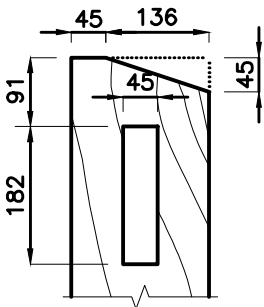
- ENSURE BARRIERS ARE LOCATED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.
- 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 LOCALLY SOURCED.
- ENSURE BOLLARDS & POSTS 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).
- BARRIERS TO BE IN A STRAIGHT LINE OR AS DIRECTED. LOCATE BARRIERS ON PARK BOUNDARY, OR SET BACK 600mm FROM EDGE OF INTERNAL ROAD, OR AS SHOWN ON PLAN.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

## CONCRETE WORK NOTES

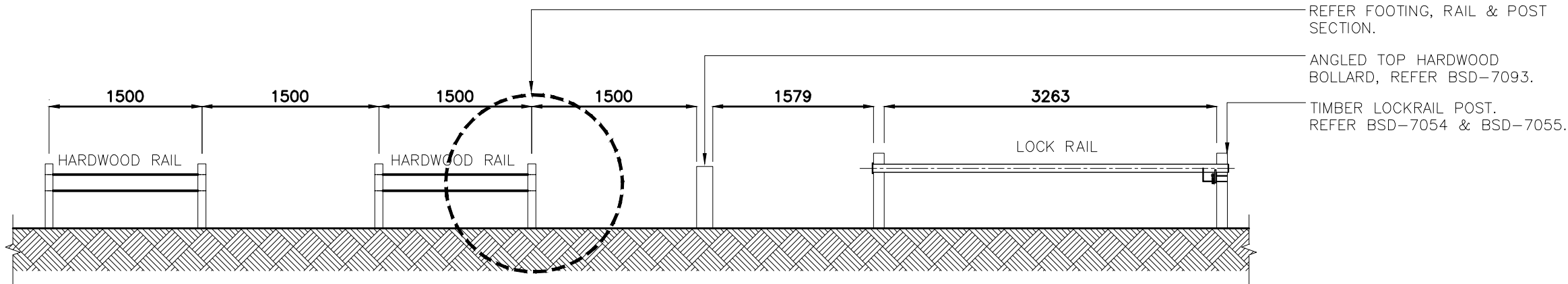
- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
- AT A MINIMUM ALL CONCRETE TO BE GRADE N25. CONCRETE SHALL BE NORMAL CLASS CONCRETE UNLESS DIRECTED OTHERWISE. N25 SHALL MEAN NORMAL CLASS CONCRETE WITH A 28 DAY CHARACTERISTIC STRENGTH OF 25MPa. CONCRETE MIX DESIGN SHALL BE SUBMITTED 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 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 NAPHTHATE OIL (FOR ABOVE GROUND USE) AND COPPER NAPHTHATE EMULSION (FOR BELOW GROUND USE) – COAT ENTIRE BOLLARD PRIOR TO PLACING.

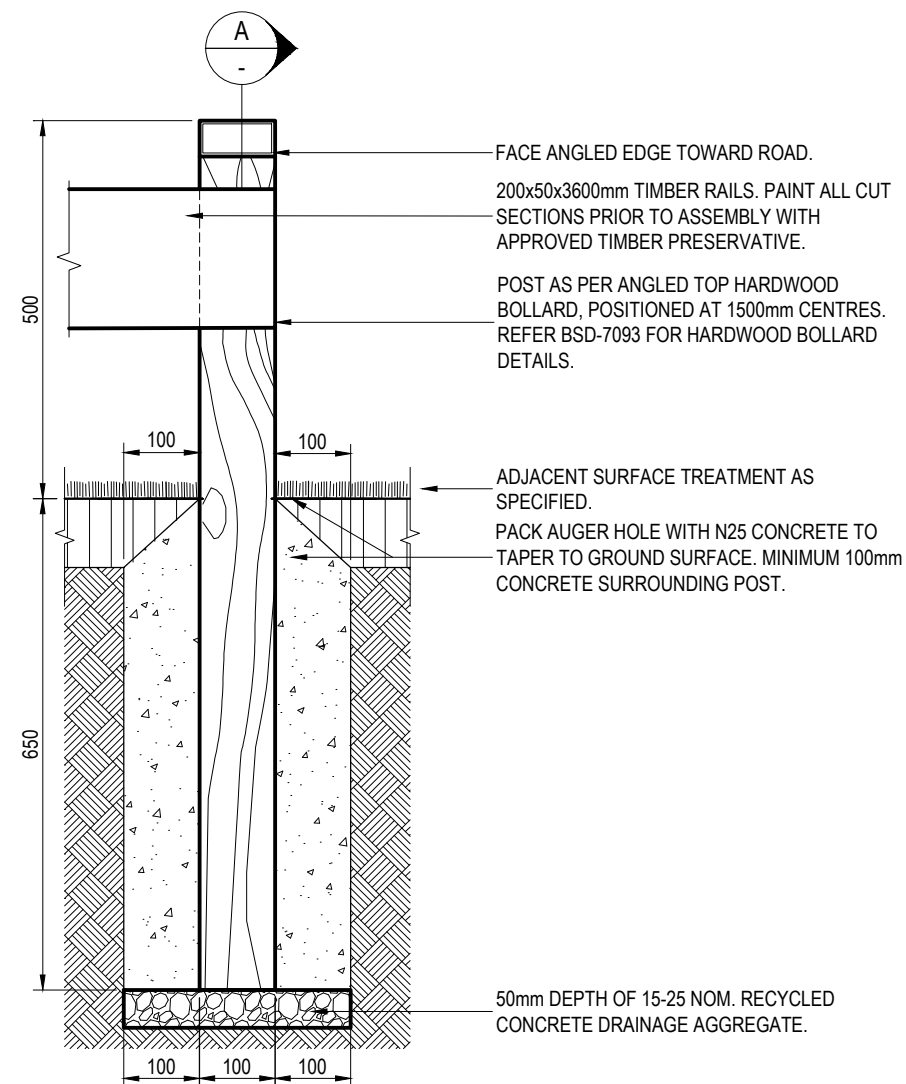


RAIL FIXING DETAIL – ELEVATION A  
SCALE 1:10



HARDWOOD RAIL SETOUT – ELEVATION  
SCALE 1:50

					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		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>		
					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		FENCE – PARKS – DRESSED HARDWOOD BARRIER		
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-7013 (A) Fence - Parks - Dressed hardwood barrier.dwg				Dwg No. BSD-7013		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS	ASSOCIATED PLANS	SUPERSEDES UMS-732				ORIGINAL SIZE A3	REVISION A	



FOOTING, RAIL & POST - SECTION  
SCALE 1:10

- ## GENERAL NOTES & SPECIFICATIONS

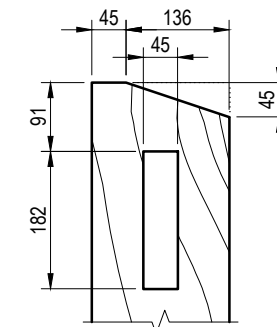
- G1. ENSURE BARRIERS ARE LOCATED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- G2. AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.
- G3. 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 LOCALLY SOURCED.
- G4. ENSURE BOLLARDS & POSTS ARE CLEANED OF CONCRETE SLURRY OR SPRAY WHEN INSTALLED TO PREVENT STAINING OR DAMAGE TO APPLIED FINISHES.
- G5. COLOUR SELECTION IN ACCORDANCE WITH STANDARD BCC CORPORATE COLOUR PALETTE (& AS2700 EQUIVALENT).
- G6. BARRIERS TO BE IN A STRAIGHT LINE OR AS DIRECTED. LOCATE BARRIERS ON PARK BOUNDARY, OR SET BACK 600mm FROM EDGE OF INTERNAL ROAD, OR AS SHOWN ON PLAN.
- G7. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

## CONCRETE WORK NOTES

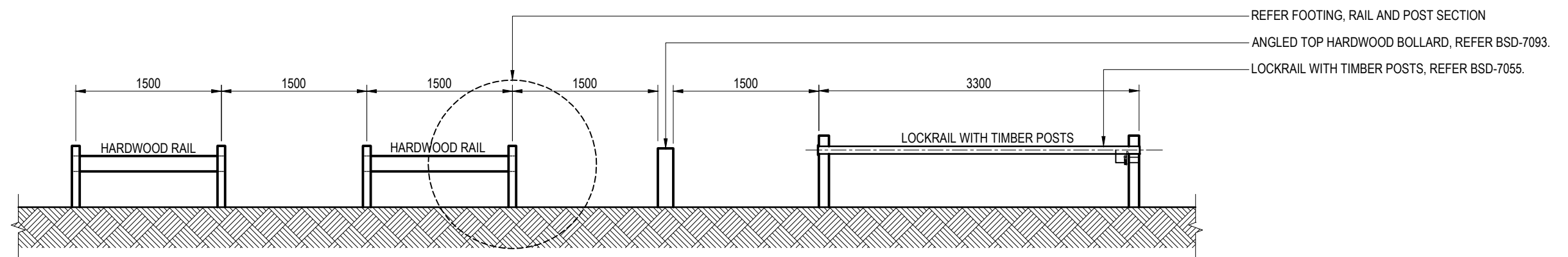
- C1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
- C2. AT A MINIMUM ALL CONCRETE TO BE GRADE N25. CONCRETE SHALL BE NORMAL CLASS CONCRETE UNLESS DIRECTED OTHERWISE. N25 SHALL MEAN NORMAL CLASS CONCRETE WITH A 28 DAY CHARACTERISTIC STRENGTH OF 25MPa. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE SITE SUPERINTENDENT FOR APPROVAL FIVE (5) DAYS PRIOR TO ORDERING.
- C3. ALL CEMENT TO BE TYPE GP OR GB TO AS 3972 UNLESS SPECIFIED OTHERWISE.
- C4. NORMAL AGGREGATE SIZE TO BE 20mm, SLUMP TO BE NOT GREATER THAN 80mm.
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- T1. 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.
- T2. ALL TIMBER TO BE ACQ PRESSURE TREATED OR TANALITH E (COPPER AZOL) TO *AS1608* TREATED ROUGH SAWN APPEARANCE GRADE HARDWOOD OF ONE SPECIES.
- T3. ALL EXPOSED EDGES TO RECEIVE MIN. 5mm WIDE ARRIS.
- T4. PRIOR TO INSTALLATION, ALL CUTS, EDGES, JOINTS TO RECEIVE LIBERAL COATINGS WITH AN APPROVED TIMBER PRESERVATIVE.
- T5. ALL TIMBER IN CONTACT WITH GROUND TO BE PRESERVATIVE TREATED TO HAZARD CLASS H5 TO *AS1604* AND HAVE A DURABILITY CLASS 1 OR 2 TO *AS5604*.
- T6. ALL TIMBER TO BE FREE OF KNOTS, SPLINTERS, CRACKS OR ANY MAJOR DEFECT.1
- T7. 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.



RAIL FIXING DETAIL - ELEVATION A  
SCALE 1:10



## HARDWOOD RAIL SETOUT - ELEVATION

SCALE 1:50



BRISBANE CITY COUNCIL STANDARD DRAWING

FENCE - PARKS  
DRESSED HARDWOOD BARRIER

PUBLISH DATE	March 2021
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SCALE AS SHOWN

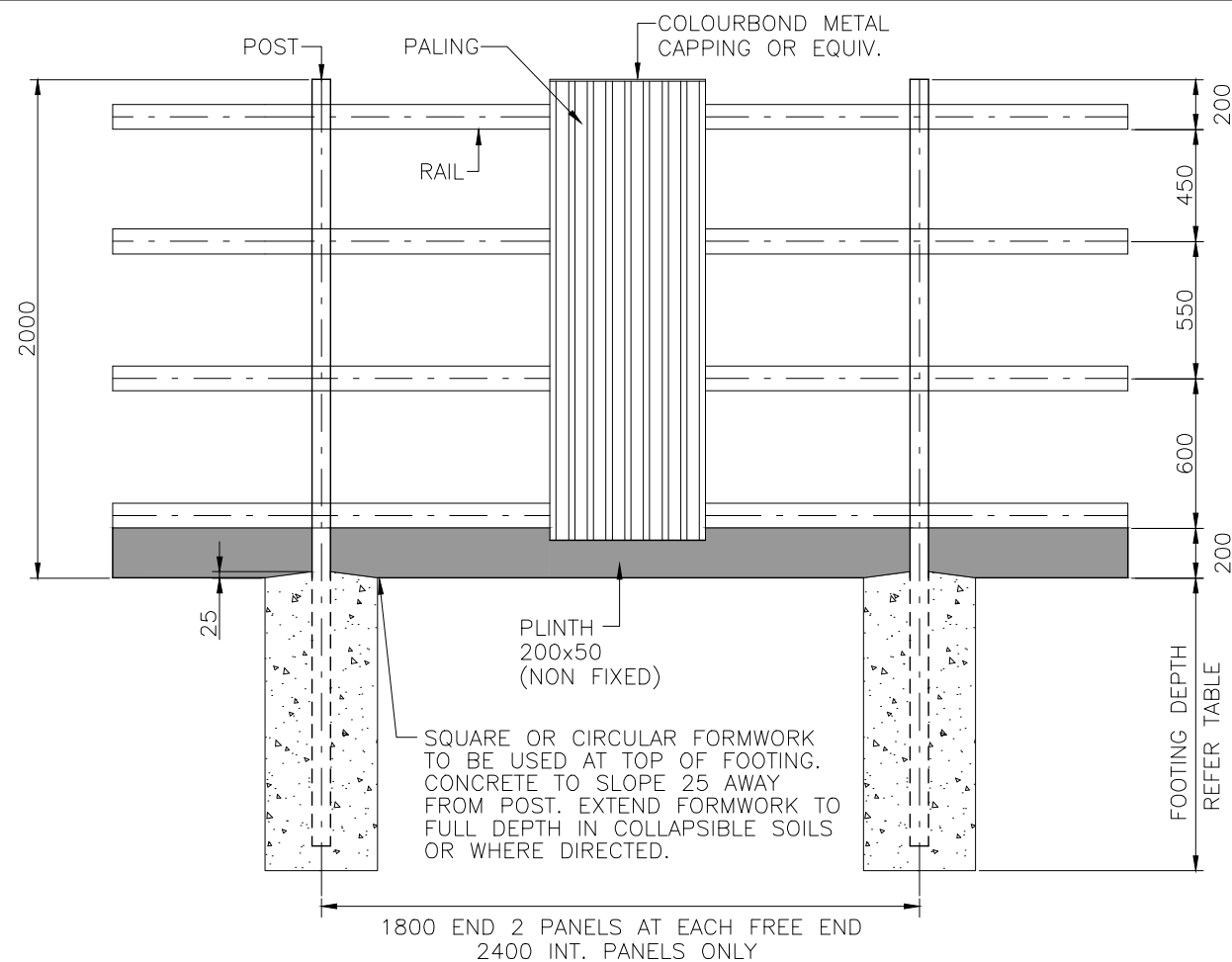
DRAWING NUMBER

**BSD-7013**

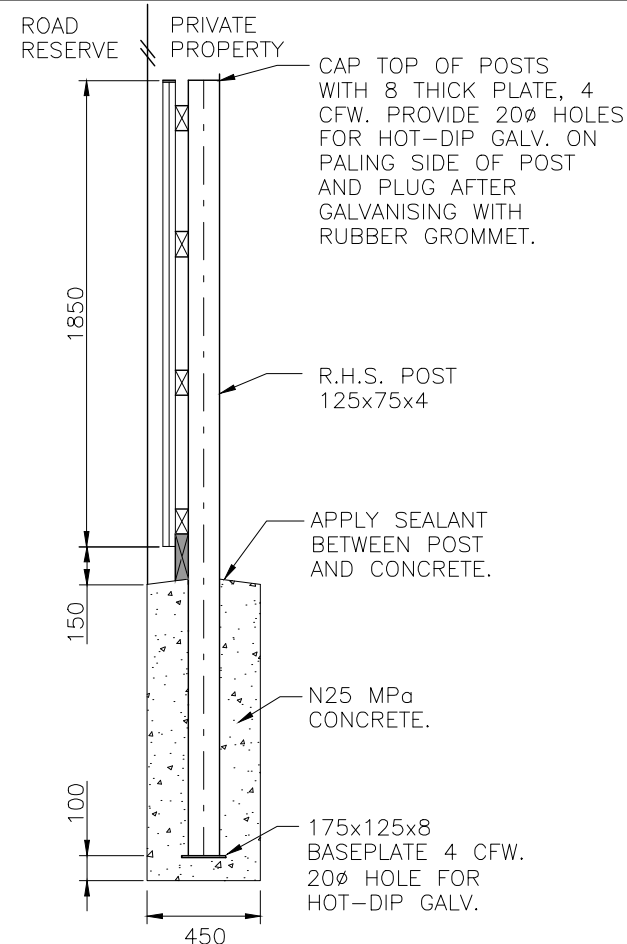
ORIGINAL SIZE  
A3

REVISION  
B

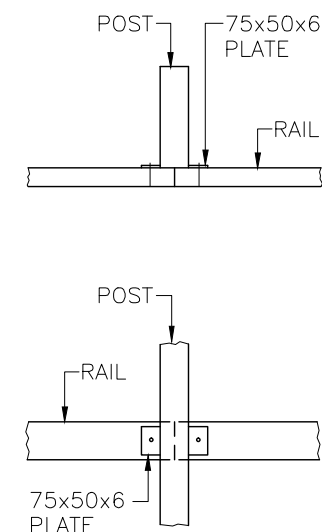




ELEVATION



SECTION

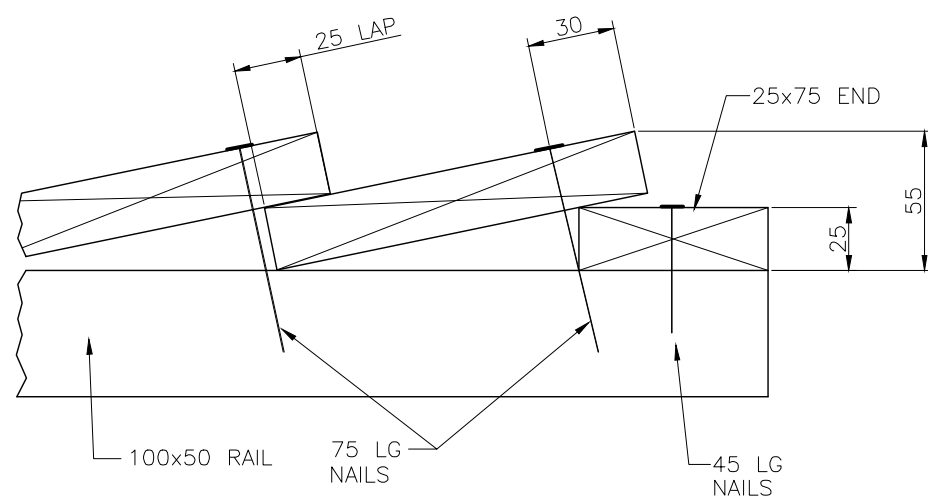


POST & RAIL CONNECTION

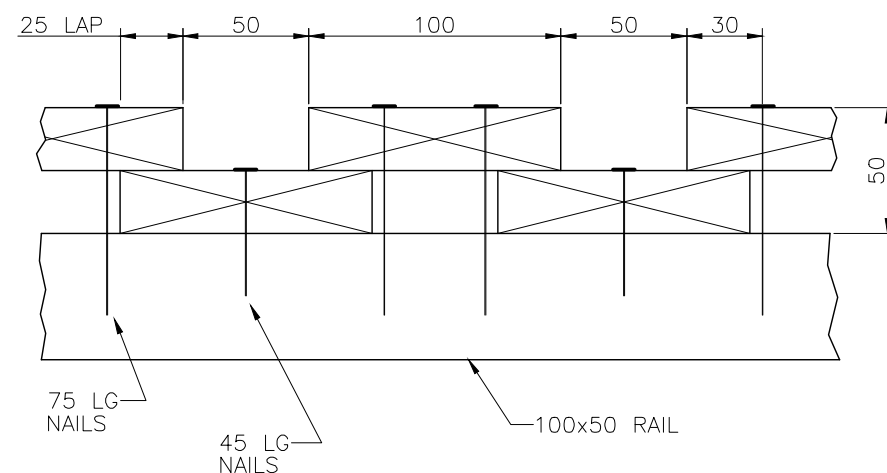
FOOTING DEPTH	
SOIL TYPE	FOOTING DEPTH
SOFT CLAY ( $C_u = 25$ kPa)	1600
FIRM CLAY ( $C_u = 50$ kPa)	1300
STIFF CLAY ( $C_u = 100$ kPa)	1100
MEDIUM DENSE NON-COHESIVE SOIL	1200

### NOTES:

- THIS DRAWING DEPICTS A TYPICAL 2000 HIGH ACOUSTIC BARRIER AND DOES NOT NECESSARILY REPRESENT A NOISE ATTENUATION SOLUTION FOR ALL DEVELOPMENTS. NOISE ATTENUATION SOLUTION FOR EACH DEVELOPMENT IS SITE SPECIFIC AND SHALL BE ADDRESSED IN ACCORDANCE WITH THE "NOISE IMPACT ASSESSMENT PLANNING SCHEME POLICY" OF THE BRISBANE CITY PLAN.
- MAXIMUM PERMISSIBLE STRESS DESIGN WIND VELOCITY IS 33m/s (W33) WHICH CORRESPONDS TO A SUBURBAN ENVIRONMENT WITH NO EXPOSURE TO OPEN AREAS AND NOT LOCATED IN CLOSE PROXIMITY TO HILLS, RIDGES OR ESCARPMENTS, AS THE NATURAL SURFACE 2m EITHER SIDE OF THE FENCE IS ASSUMED FLAT FOR DESIGN OF FOOTING. IF THESE CONDITIONS ARE NOT MET AN ALTERNATIVE CERTIFIED ENGINEERING DESIGN MUST BE SUBMITTED FOR APPROVAL.
- FOR NEW SUBDIVISIONS/DEVELOPMENTS, THE ENTIRE FENCE SHALL BE CONTAINED WITHIN THE PRIVATE PROPERTY AND MAINTAINED BY THE PROPERTY OWNER.
- ALL PALINGS, RAILS AND PLINTH SHALL BE C.C.A TREATED PINE TO H5 LEVEL IN ACCORDANCE WITH AS 1604.
- ALL FIXINGS SHALL BE HOT-DIP GALVANISED OR EQUIVALENT.
- CAPPING: COLOURBOND METAL, 30 DEEP WITH OVERFOLDED EDGES. FIX WITH No.10 x 12 LONG GALV. TYPE 17 SCREWS AT 300 CRS AND STAGGERED EACH SIDE. CAPPING TO FIT SNUGLY OVER PALINGS.
- PALINGS: F5 TREATED PINE. REFER PALING DETAILS FOR SIZES. NAILS SHALL BE 2.8Ø HOT-DIP GALVANISED FLAT HEAD CLOUTS (OR SIMILAR GUN-DRIVEN NAILS). STAGGER NAIL PATTERN ALONG LENGTH OF PALING TO AVOID SPLITTING AND DRIVE NAILS SQUARE TO FACE OF BOARD. RING SHANK NAILS TO BE USED.
- RAILS: 100 x 50 F5 TREATED PINE. FIX WITH No.14-10 x 50 GALVANISED HEX HD TYPE 17 SCREW.
- POSTS: 125 x 75 x 4 R.H.S. HOT-DIP GALVANISED AFTER FABRICATION.
- PLINTH: 200 x 50 F5 TREATED PINE (NON FIXED).
- DIMENSIONS IN MILLIMETRES (UNO).




SYSTEM 1 (150x25)



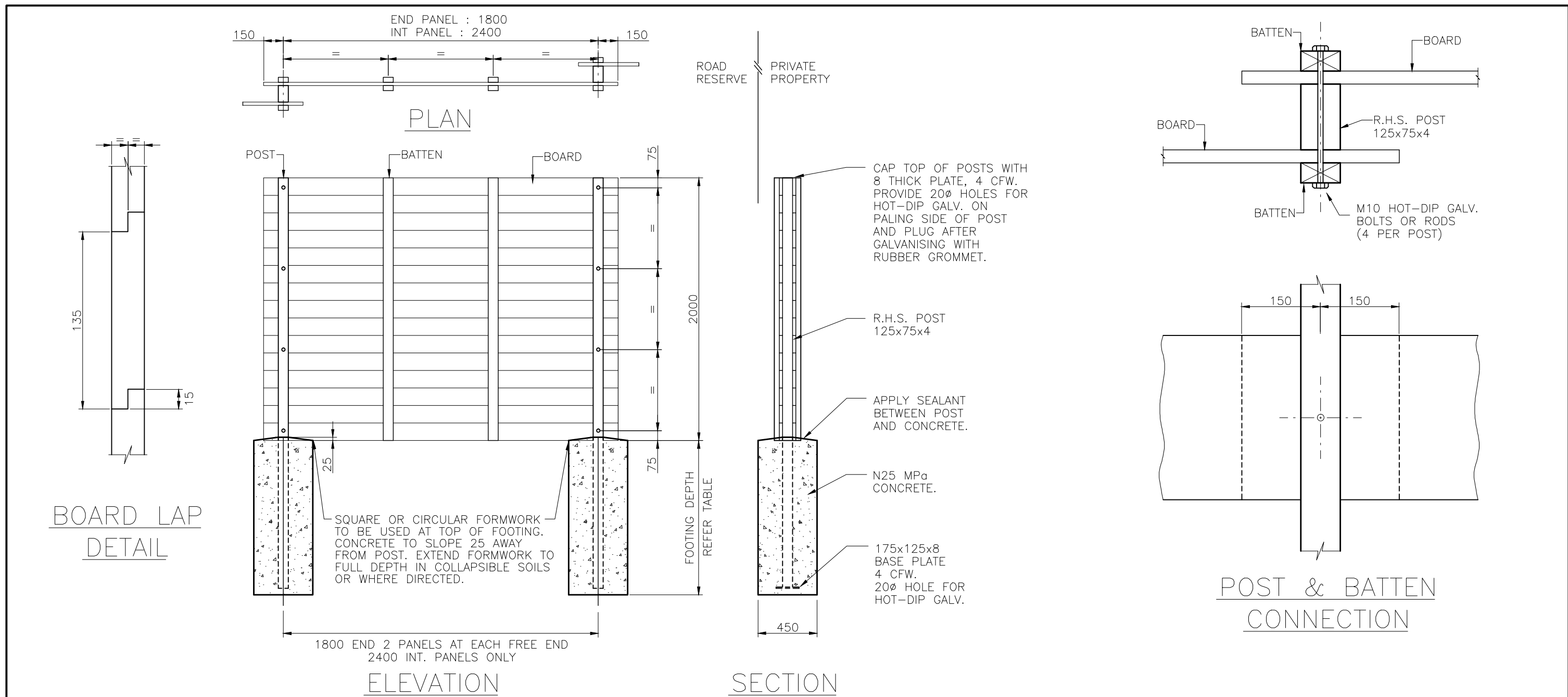
SYSTEM 2 (100x25)

TREATED PINE PALING

					DRAWING AUTHORISED FOR PUBLICATION B.BALL SIGNATURE ON ORIGINAL DATED 29/06/01 R.P.E.Q 3852	DESIGN	Std Dwgs Group	DATE	APRIL '01		BRISBANE CITY COUNCIL STANDARD DRAWING			
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	CITY DESIGN	DATE	APRIL '01		NOISE BARRIER FENCE 2.0m HIGH POST AND PALING	SCALE NOT TO SCALE		
					DESIGN APPROVED B.HANSEN SIGNATURE ON ORIGINAL DATED 27/06/01	CHECKED	M. STEER	DATE	MAY '01			DWG No.	BSD-7021	
B	Drawing Title Amended	FEB'16	JUL '16	JUL '16		DRAWING FILENAME	BSD-7021 (B) Noise barrier fence 2.0m high - Post and paling.dwg					ORIGINAL SIZE	A3	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	PRINCIPAL ASSET OFFICER ROADS & DRAINAGE	ASSOCIATED PLANS	SUPERSEDES UMS-245				REVISION	B		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE										



BRISBANE CITY COUNCIL STANDARD DRAWING	
NOISE BARRIER FENCE 2.0m HIGH POST AND PALING	
SCALE NOT TO SCALE	
DWG No. BSD-7021	
ORIGINAL SIZE A3	REVISION B





### NOTES:

- THIS DRAWING DEPICTS A TYPICAL 2000 HIGH ACOUSTIC BARRIER AND DOES NOT NECESSARILY REPRESENT A NOISE ATTENUATION SOLUTION FOR ALL DEVELOPMENTS. NOISE ATTENUATION SOLUTION FOR EACH DEVELOPMENT IS SITE SPECIFIC AND SHALL BE ADDRESSED IN ACCORDANCE WITH THE "NOISE IMPACT ASSESSMENT PLANNING SCHEME POLICY" OF THE BRISBANE CITY PLAN.
- MAXIMUM PERMISSIBLE STRESS DESIGN WIND VELOCITY IS 33m/s (W33) WHICH CORRESPONDS TO A SUBURBAN ENVIRONMENT WITH NO EXPOSURE TO OPEN AREAS AND NOT LOCATED IN CLOSE PROXIMITY TO HILLS, RIDGES OR ESCARPMENTS, AS THE NATURAL SURFACE 2m EITHER SIDE OF THE FENCE IS ASSUMED FLAT FOR DESIGN OF FOOTING. IF THESE CONDITIONS ARE NOT MET AN ALTERNATIVE CERTIFIED ENGINEERING DESIGN MUST BE SUBMITTED FOR APPROVAL.
- FOR NEW SUBDIVISIONS/DEVELOPMENTS, THE ENTIRE FENCE MUST BE CONTAINED WITHIN THE PRIVATE PROPERTY AND MAINTAINED BY THE PROPERTY OWNER.

- ALL BOARDS AND BATTENS SHALL BE C.C.A TREATED PINE TO H5 LEVEL IN ACCORDANCE WITH AS 1604.
- ALL FIXINGS SHALL BE HOT-DIP GALVANISED OR EQUIVALENT.
- BOARDS: 150 x 25 ROUGH SAWN F5 TREATED PINE SIZED AND REBATED AS PER BOARD LAP DETAIL. ALL BOARDS TO BE FULL LENGTH.
- BATTENS: 75 x 38 ROUGH SAWN F5 TREATED PINE FIXED;  
\*AT POST WITH 4 M10 HOT-DIP GALVANISED BOLTS OR RODS  
\*TO BOARDS ELSEWHERE WITH 2.8Ø x 75 LONG GALVANISED CLOUTS (OR SIMILAR GUN-DRIVEN NAILS) AT TOP AND BOTTOM AND EVERY SECOND BOARD (300 CRS) BOTH SIDES. DRIVE NAILS SQUARE TO FACE OF BATTENS. RING SHANK NAILS TO BE USED.
- POSTS: 125 x 75 x 4 R.H.S. HOT-DIP GALVANISED AFTER FABRICATION. FOR POST AND BATTEN CONNECTION REFER TO DETAIL ABOVE.
- DIMENSIONS IN MILLIMETRES (UNO).

FOOTING DEPTH	
SOIL TYPE	FOOTING DEPTH
SOFT CLAY (Cu = 25kPa)	1600
FIRM CLAY (Cu = 50 kPa)	1300
STIFF CLAY (Cu = 100 kPa)	1100
MEDIUM DENSE NON-COHESIVE SOIL	1200

					DRAWING AUTHORISED FOR PUBLICATION B.BALL SIGNATURE ON ORIGINAL DATED 29/06/01 R.P.E.Q: 3582	DESIGN	Std Dwgs Group	DATE	APRIL '01		BRISBANE CITY COUNCIL STANDARD DRAWING				
						DRAWN	CITY DESIGN	DATE	APRIL '01						
						CHECKED	M. STEER	DATE	MAY '01						
						DRAWING FILENAME	BSD-7022 (B) Noise barrier fence 2.0m high - Post and board.dwg								
B	Drawing Title Amended	FEB'16	JUL '16	JUL '16	DESIGN APPROVED B. HANSEN SIGNATURE ON ORIGINAL DATED 27/06/01	ASSOCIATED PLANS	SUPERSEDES UMS-246					NOISE BARRIER FENCE 2.0m HIGH POST AND BOARD			
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14											
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL ASSET OFFICER ROADS & DRAINAGE									SCALE NOT TO SCALE	DWG No. BSD-7022
										ORIGINAL SIZE A3				REVISION B	

GENERAL NOTES & SPECIFICATIONS

- G1. ENSURE DOG OFF LEASH GATES ARE LOCATED IN ACCORDANCE WITH PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- G2. AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.
- G3. ENSURE DOG OFF LEASH GATES ARE CLEANED OF CONCRETE SLURRY OR SPRAY WHEN INSTALLED TO PREVENT STAINING OR DAMAGE TO APPLIED FINISHES.
- G4. COLOUR SELECTION IN ACCORDANCE WITH STANDARD BCC CORPORATE COLOUR PALETTE. "BCC GREY 3" (AS2700. "N65 GRAPHITE GREY" EQUIVALENT).
- G5. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).
- G6. FOR FENCING DETAILS REFER BSD-7007.
- G7. ALL CHAINWIRE AND TIE WIRE (BOTH MARINE AND NON-MARINE APPLICATIONS) TO BE PVC COATED.
- G8. ALL POSTS ARE TO BE CONCRETED INTO GROUND 300mmx600mm DEEP.
- G9. MAX. GAP OF 50mm UNDER ALL GATES.
- G10. STANDARD IS NOT FOR USE IN A MARINE ENVIRONMENT. THE MARINE ENVIRONMENT COULD EXTEND UP TO 1 km FROM THE FORESHORE. FOR NON-MARINE ENVIRONMENT, SUPPLY AND INSTALL 1200mm HIGH GALVANISED FENCE POST WITH TOP AND BOTTOM RAIL. ALL POSTS, RAILS AND FITTINGS TO BE GALVANISED STEEL TUBE TO AS 1163 THEN POWDER COATED.
- G11. WHERE STANDARD IS REQUIRED FOR USE WITH MARINE ENVIRONMENT, THE FOLLOWING PROTECTION TREATMENT FOR STEELWORK IS REQUIRED:
- HOT DIP GALVANISING: 85 MICRONS (600g/m²) MIN.
  - SWEEP ABRASIVE BLAST.
  - FIRST COAT: EPOXY PRIMER 75 MICRONS MIN.
  - SECOND COAT: TWO PACK ACRYLIC OR POLYURETHANE GLOSS 75 MICRONS MIN.
- G12. SINGLE GATE - SUPPLY AND INSTALL ONE 1200mm HIGH x 1000mm WIDE - ALL PIPE TO BE MEDIUM GALVANISED THEN POWDER COATED SINGLE LEAF GATE. GATE TO BE SELF-CLOSING. FITTINGS TO BE BOLTED TO POSTS. INCLUDES TWO POWDER COATED GATE POSTS. GATES TO INCLUDE 'D' LATCH.
- G13. DOUBLE GATE - SUPPLY AND INSTALL ON 1200mm HIGH x 4000mm WIDE ALL PIPE TO BE MEDIUM GALVANISED THEN POWDER COATED DOUBLE LEAF GATE. INCLUDES TWO POWDER COATED GATE POSTS CHAIN TO BE ATTACHED TO GATE TO ALLOW LOCKING OF DOUBLE GATES WITH PADLOCK (BCC SUPPLIED AND INSTALLED - CONTACT BCC ASSET SERVICES, REFER BSD-10003 FOR CONTACT DETAILS). GATES TO BE JOINED BY LOOP LATCH.
- G14. OTHER SPECIFICATIONS:
- GATE POSTS (CAPPED) - 50NB (60.3 OD, 3.6 THICK).
  - GATE FRAME/BRACE - 25NB.
  - CHAINWIRE - 50mm NOMINAL MESH WITH 2.5mm PVC COATED WIRE.
  - CABLES & STRINGERS - PVC COATED 3.15mm.
- G15. FOR REFUSE BIN AND LOCKABLE STAND REQUIREMENTS, CONTACT TO WASTE AND RESOURCE RECOVERY SERVICES ON 07 3403 8888.
- G16. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

FIXTURES/FITTINGS & METAL WORK NOTES

- F1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS4100 & AS/NZS1554.
- F2. ALL METAL FINISHES TO BE IN ACCORDANCE WITH AS4506.
- F3. ALL FIXTURES/FITTINGS UNLESS SPECIFIED ARE TO BE HOT DIPPED GALVANISED. IN VICINITY OF SALTWATER/SPRAY, ENSURE ALL FASTENERS ARE 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.
- F4. ALL WELDS TO BE CONTINUOUS FILLET WELDS, GROUND OFF SMOOTH & FLUSH IN ACCORDANCE WITH AS1554. GRIND SMOOTH EDGES & WELDS PRIOR TO HOT DIPPED GALVANISING OR APPLIED FINISHES.

CONCRETE WORK NOTES

- C1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
- C2. 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.
- C3. ALL CEMENT TO BE TYPE GP OR GB TO AS 3972 UNLESS SPECIFIED OTHERWISE.
- C4. NORMAL AGGREGATE SIZE TO BE 20mm, SLUMP TO BE NOT GREATER THAN 80mm.
- C5. THE BOTTOMS OF ALL FOOTINGS ARE TO BE CLEANED OF ALL LOOSE MATERIAL AND WATER PRIOR TO PLACING CONCRETE.

CONCRETE WORK NOTES

- C1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
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- C4. NORMAL AGGREGATE SIZE TO BE 20mm, SLUMP TO BE NOT GREATER THAN 80mm.
- C5. THE BOTTOMS OF ALL FOOTINGS ARE TO BE CLEANED OF ALL LOOSE MATERIAL AND WATER PRIOR TO PLACING CONCRETE.

REFER TO BSD-7032 SHEET 2 OF 2 FOR ASSOCIATED DETAILS.

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).

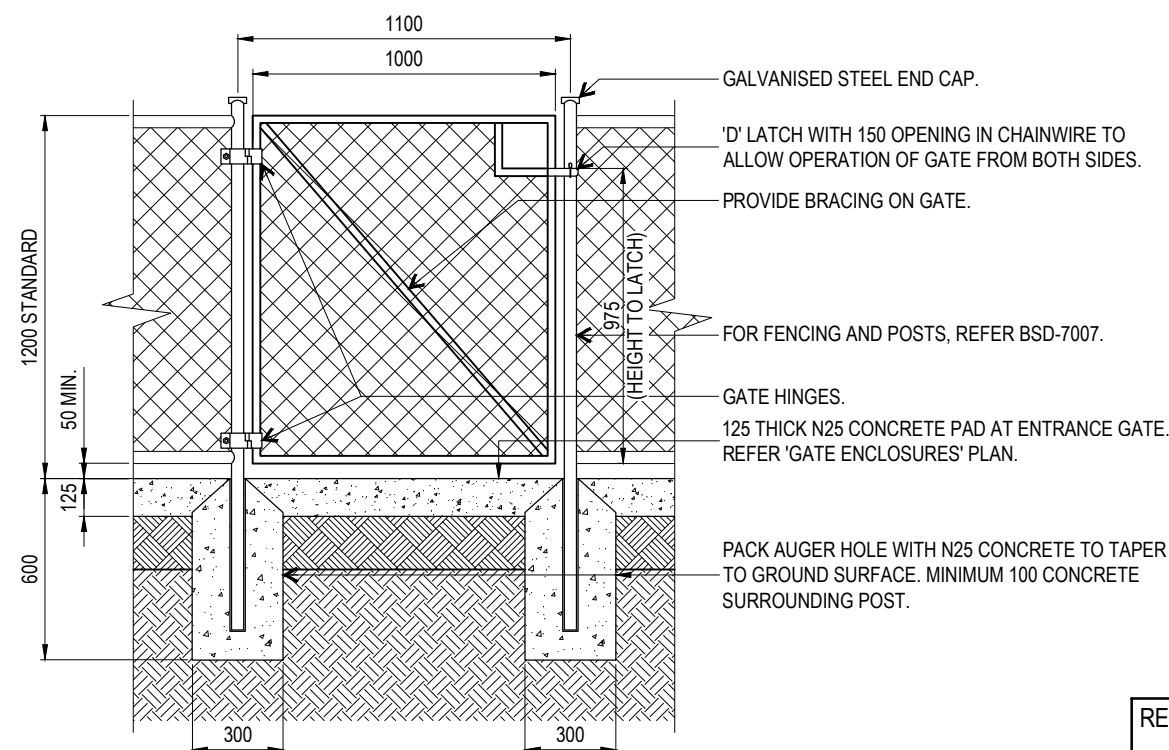


BRISBANE CITY COUNCIL STANDARD DRAWING

GATES  
DOG OFF LEASH AREA - GENERAL NOTES  
SHEET 1 OF 2

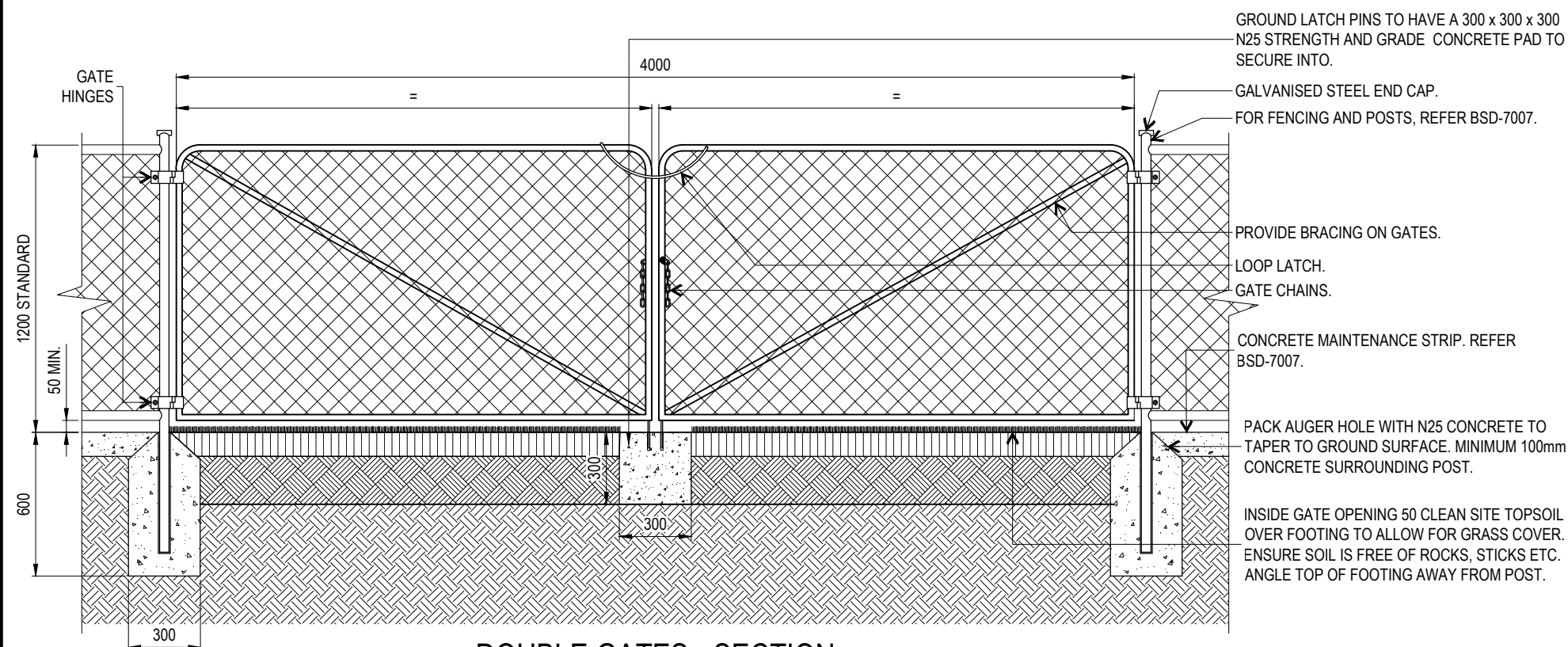
PUBLISH DATE		JUN 2023
SCALE		AS SHOWN
DRAWING NUMBER		BSD-7032
ORIGINAL SIZE	REVISION	
A3	D	



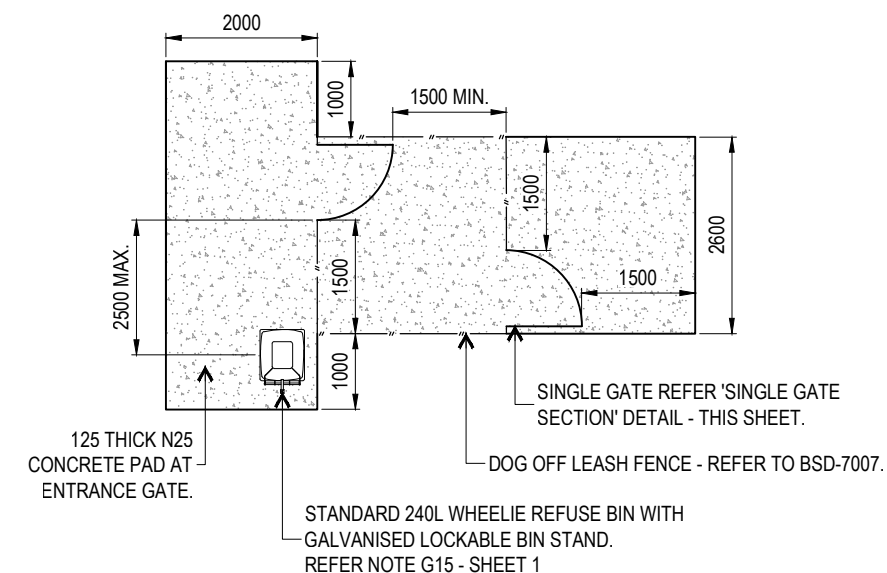
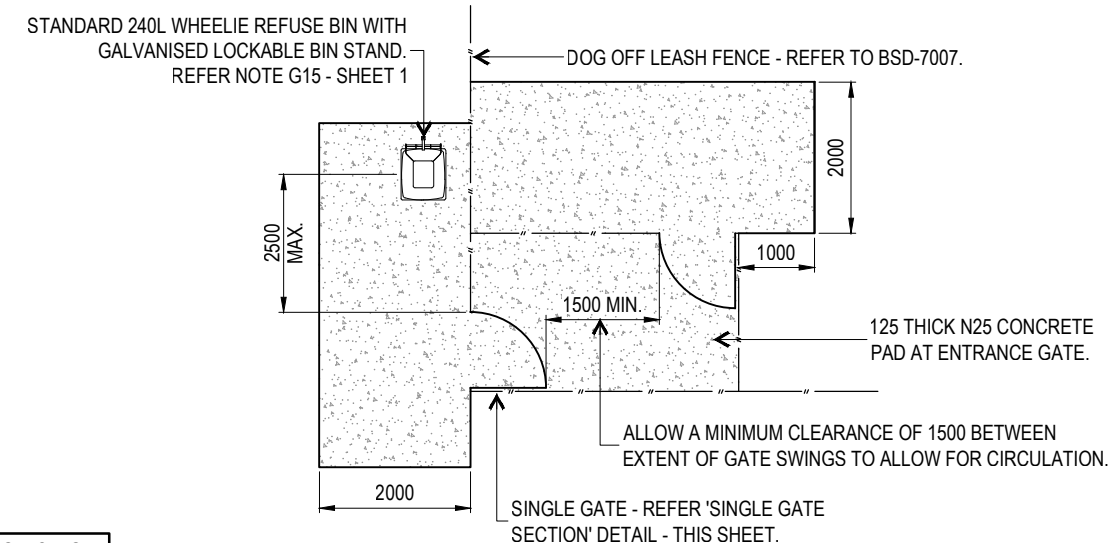


**SINGLE GATE - SECTION**  
SCALE: 1:25

REFER TO BSD-7032 SHEET 1 OF 2 FOR ASSOCIATED SPECIFICATIONS.



**DOUBLE GATES - SECTION**  
SCALE: 1:25



**DOUBLE GATE ENCLOSURES - PLAN**  
SCALE: 1:100

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

**GATES**  
**DOG OFF LEASH AREA**  
**SHEET 2 OF 2**

PUBLISH DATE	JUN 2023
SCALE	AS SHOWN
DRAWING NUMBER	BSD-7032
ORIGINAL SIZE	A3
REVISION	D

GENERAL NOTES:

- G1 THE BUILDER SHALL BE RESPONSIBLE FOR MAINTAINING STABILITY OF THE STRUCTURE UNTIL COMPLETION OF CONSTRUCTION AND SHALL ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED.
- G2 THE BUILDER SHALL CHECK ALL DIMENSIONS AND ALL EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION.
- G3 ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE MADE GOOD AT THEIR OWN COST.
- G4 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING AUSTRALIAN STANDARDS, EXCEPT WHERE VARIED BY THE SPECIFICATIONS AND/OR DRAWINGS: – AS 1684.2(2010) RESIDENTIAL TIMBER FRAMED CONSTRUCTION AS 1720.1(2010) TIMBER STRUCTURES AS 2870(2011) RESIDENTIAL SLABS AND FOOTINGS AS 3600 CONCRETE STRUCTURES AS 3798 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS AS 4100 STEEL STRUCTURES
- G5 DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- G6 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE U.N.O.
- G7 U.N.O. DENOTES UNLESS NOTED OTHERWISE.
- G8 THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO TENDERING TO FAMILIARISE THEMSELVES WITH ACCESS SITE CONDITIONS
- G9 THE CONTRACTOR MAY OFFER FOR CONSIDERATION ALTERNATIVE PROVEN EQUAL PRODUCTS TO THOSE INDICATED. ALTERNATIVE PRODUCTS ARE NOT TO ADVERSELY AFFECT THE PROJECT AND CANNOT BE SUBSTITUTED WITHOUT PRIOR APPROVAL.
- G10 EXISTING SERVICES TO BE LOCATED BEFORE CONSTRUCTION COMMENCES.
- G11 THE DETAILS OF BUSHFIRE WATER SUPPLY SHELTER INCLUDED IN DRAWING SHEETS 1 TO 4.
- G12 CONSULT BCC ARCHITECTS FOR COLOUR SCHEME OF THE STRUCTURE.

DESIGN CRITERIA:

WIND LOADS : REGION B TERRAIN CATEGORY 1.5  
ULTIMATE WIND SPEED = 54.0 m/s  
SHELTER IS DESIGNED FOR THE CONDITION "BLOCKED UNDER"  
ACCORDING TO AS 1170.2 (2011)  
DESIGN LIFE : 50 YEARS WITH ROUTINE MAINTENANCE  
LIVE LOADS: : FLOOR = 5.0 kPa. ROOF = 0.25 kPa / 1.4 kN.

STRUCTURE IS DESIGNED TO REMAIN OPEN – NO  
SCREENS(IMPERMEABLE OR PERMEABLE BARRIERS) TO BE INSTALLED.  
TERRAIN CATEGORY 1.5 CORRESPONDS TO AN ENVIRONMENT WITH OPEN  
WATER SURFACES SUBJECTED TO SHOALING WAVES AT SERVICEABILITY  
AND ULTIMATE WIND SPEEDS.

FOUNDATIONS AND SLAB ON GROUND:

- F1 ALL FOOTINGS ARE TO BE FOUNDED IN THE NATURAL UNDISTURBED SOIL PROFILE WITH A MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 100kPa UNLESS NOTED OTHERWISE. IF SITE CONDITION IS DIFFERENT, CONSULT A STRUCTURAL ENGINEER
- F2 SOIL TEST IS REQUIRED TO CONFIRM BEARING CAPACITY AND SITE CLASSIFICATION TO AS 2870.
- F3 FOUNDATIONS ARE TO BE CHECKED AND CERTIFIED BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER, QUEENSLAND (RPEQ).
- F4 COMPACT AND PREPARE THE BASE TO PROVIDE A SOUND PLATFORM AND ANY ORGANIC, SOFT OR LOOSE MATERIALS REMOVED AND REPLACED WITH COMPACTED FILL – BCC SPECIFICATION S300 QUARRY PRODUCT CLASS I MATERIAL.
- F5 FOR CONTROL JOINT LOCATIONS, REFER TO DRAWINGS.
- F6 SLABS ON GRADE SHALL BE UNDERLAIN WITH CONTINUOUS LAYER OF 200 MICRON (0.2mm) THICK POLYETHYLENE DAMPPROOF MEMBRANE AS PER AS 2870, LAPPED AND TAPED TO MANUFACTURER’S SPECIFICATION.

EARTHWORKS:

- E1 STRIP ALL HUMUS MATERIAL FROM THE AREA OF THE BUILDING IMPRINT AND 1000 BEYOND.
- E2 PROOF ROLL THE AREAS TO BE CONCRETED AND PAVED. REMOVE ANY WEAK MATERIAL.
- E3 COMPACTED FILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 150mm LOOSE DEPTH TO 98% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289. 5.1.1 (STANDARD COMPACTION). CARRY OUT DENSITY TESTS AT A RATE OF 2 PER LEVEL OF FILL. EVERY TEST MUST PASS.

TIMBER NOTES:

- T1 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 1720 AND AS 1684.
- T2 TIMBER GRADES SHALL BE AS SHOWN ON THE DRAWINGS. ALL TIMBER TO BE SEASONED OR KILN DRIED GRADE MGP12 MINIMUM U.N.O WITH NATURAL DURABILITY CLASS 4 (ABOVE GROUND) OR BETTER.
- T3 ALL FASTENERS SHALL BE HOT DIP GALVANISED. BOLTS TO BE METRIC HEX–HEAD M16 MINIMUM WITH WASHERS U.N.O. CLEAT PLATES TO BE 10mm THICK U.N.O.
- T4 TIMBER JOINT GROUP JD4 OR BETTER.
- T5 ALL TIMBER SHALL BE FULLY DRESSED AND ALL EDGES, ENDS AND CORNERS TO BE 6mm DRESSED.
- T6 PROTECT ENDS OF EXPOSED MEMBERS. USE A HIGH QUALITY EXTERIOR PAINT OR OIL FINISH.
- T7 ALL TIMBER FRAMING SHALL BE NATURALLY TERMITE RESISTANT OR TREATED USING LOSP OR ACQ CHEMICALS TO A HAZARD RESISTANCE LEVEL H3 IN ACCORDANCE WITH AS 1684.2 APPENDIX B.
- T8 ALL TIMBER TO BE OILED OR PAINTED PRIOR TO FIXING INTO FINAL POSITION. REFER TO PROJECT SPECIFICATION FOR EACH PROJECT.

CONCRETE NOTES:

- C1 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
- C2 ALL CONCRETE SHALL BE PREMIXED BY AN APPROVED SUPPLIER.
- C3 ALL CEMENT SHALL BE TYPE GP OR GB.
- C4 CONCRETE SPECIFICATION: NOMINAL AGGREGATE SIZE TO BE 20mm, SLUMP TO BE NOT GREATER THAN 80mm.
- C5 CONCRETE STRENGTH AND CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE
- |        |          |           |                     |
|--------|----------|-----------|---------------------|
| U.N.O. | ELEMENT: | F’C (MPa) | REINFORCEMENT COVER |
|        | PIERS    | 25        | 75 MIN.             |
|        | SLAB     | 25        | 50 MIN.             |
- C6 ALL LAPS IN REINFORCEMENT SHALL BE AS SHOWN IN THE TABLE BELOW UNLESS NOTED OTHERWISE.
- |  |      |                 |
|--|------|-----------------|
|  | BAR  | LAP LENGTH (mm) |
|  | N12  | 500             |
|  | N16  | 650             |
|  | MESH | 350             |
- C7 REINFORCEMENT SYMBOLS:
- |    |   |
|----|---|
| R  | STRUCTURAL PLAIN ROUND GRADE 250R TO AS 4671.               |
| N  | DEFORMED BAR GRADE D500N TO AS 4671.                        |
| SL | HARD DRAWN STEEL REINFORCING FABRIC GRADE D500L TO AS 4671. |
- C8 SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C9 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL BY THE SUPERINTENDENT.
- C10 ALL CONCRETE SHALL BE COMPACTED USING A MECHANICAL VIBRATION PROCESS.
- C11 ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS.
- C12 CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE SUPERINTENDENT.

STEELWORK NOTES

- S1. ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH AS4100 & AS/NZS1554.
- S2. ALL STEEL SHALL BE IN ACCORDANCE WITH: AS1163 GRADE C350LO FOR RECTANGULAR AND SQUARE HOLLOW SECTIONS UNO
- S3. ALL BOLTS TO BE METRIC HEXAGONAL TO AS 1252 U.N.O.  
ALL BOLTS TO BE M16 4.6/S TO AS/NZS 1252 U.N.O.  
ALL BOLTS TO BE HOT DIP GALVANISED TO AS 1214 U.N.O.
- S4. ALL CLEATS AND GUSSETS SHALL BE 10mm PLATE TO AS/NZS3678 GRADE 250 U.N.O.
- S5. METAL ROOF CLADDING TO BE 0.42 BMT LYSAGHT CUSTOM ORB WITH A COLORBOND FINISH OR APPROVED EQUAL FIXED AS PER MANUFACTURER’S SPECIFICATIONS – COLORBOND COLOUR AS PER SPECIFICATION.
- S6. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS (CFW) STRUCTURAL PURPOSE (SP) WELDS U.N.O. ALL WELDS TO BE MADE USING E48XX OR W50X GRADE 1 (OR BETTER) ELECTRODES TO AS/NZS 1554. GRIND ALL CORNERS & WELDS SMOOTH.
- S7. ALL STEELWORK TO BE HOT DIP GALVANISED IN ACCORDANCE WITH AS/NZS 2312 HDG600 SPECIFICATION. SURFACE PREPARATION FOR CORROSION PROTECTION COATING IS TO BE CLASS 2½ TO AS 1627 AND PICKLED PRIOR GALVANISING. HOT DIPPED GALVANISED COATING SHALL BE IN ACCORDANCE WITH AS/NZS 4680.
- S8. ANY POST GALVANISING DAMAGE TO BE MADE GOOD WITH HIGH QUALITY TWO PACK EPOXY ZINC RICH PAINT CONFORMING TO AS/NZS 3750.9 WITH A MINIMUM DRY FILM THICKNESS OF 100 MICRONS. SURFACE PREPARATION TO BE ACCORDING TO PAINT MANUFACTURER’S RECOMMENDATIONS.
- S9. THE ENDS OF ALL TUBULAR OR HOLLOW MEMBERS ARE TO BE SEALED WITH 6mm THICK PLATES AND CONTINUOUS FILLET WELDED U.N.O.
- S10. PROTECTIVE COATINGS TO BE APPLIED AFTER ALL FABRICATION COMPLETED. NO WELDING ETC TO BE CARRIED OUT DURING OR AFTER APPLICATION OF COATING SYSTEM.
- S11. THE PRINCIPAL CONTRACTOR SHALL CONFER WITH THE FABRICATOR AND GALVANISER TO ENSURE VENT HOLES ARE PROVIDED IN ACCORDANCE WITH AS/NZS 4680.

INSPECTION AND CERTIFICATION NOTES:


- A1 THE CONTRACTOR’S ENGINEER (RPEQ) SHALL UNDERTAKE INSPECTIONS DURING CONSTRUCTION TO ENSURE ALL CONSTRUCTION WORKS ARE IN ACCORDANCE WITH THE MOST CURRENT ISSUE OF THE STRUCTURAL DRAWINGS AND THE CONTRACT DOCUMENT. THE RPEQ SHALL CERTIFY ALL CONSTRUCTION WORK (FORM 16). ANY ALTERNATIVE TECHNIQUE USED IN CONSTRUCTION SHALL BE FOLLOWED BY A DESIGN CERTIFICATE (FORM 15) BY THE CONTRACTOR’S PROFESSIONAL ENGINEER (RPEQ)

					DRAWING AUTHORISED FOR PUBLICATION	DESIGN	CPO – P&D	DATE	DEC '14		BRISBANE CITY COUNCIL STANDARD DRAWING			
					Ingo Condric 2015.06.04 11:53:10 +10'00' for ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	CPO – P&D	DATE	DEC '14		SCALE AS SHOWN			
					DESIGN APPROVED	CHECKED	BI – FSG – AS	DATE	DEC '14		GATE – NATURAL AREA – PEDESTRIAN ENTRY – GENERAL NOTES – SHEET 1 OF 3			
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		DRAWING FILENAME	BSD-7033 Ibl Gate - Natural area - Pedestrian entry - General notes - Sheet 1 of 3.dwg							
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14		ASSOCIATED PLANS	BSD-7033-Sheets 2 & 3							
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE						ORIGINAL SIZE A3	REVISION B		



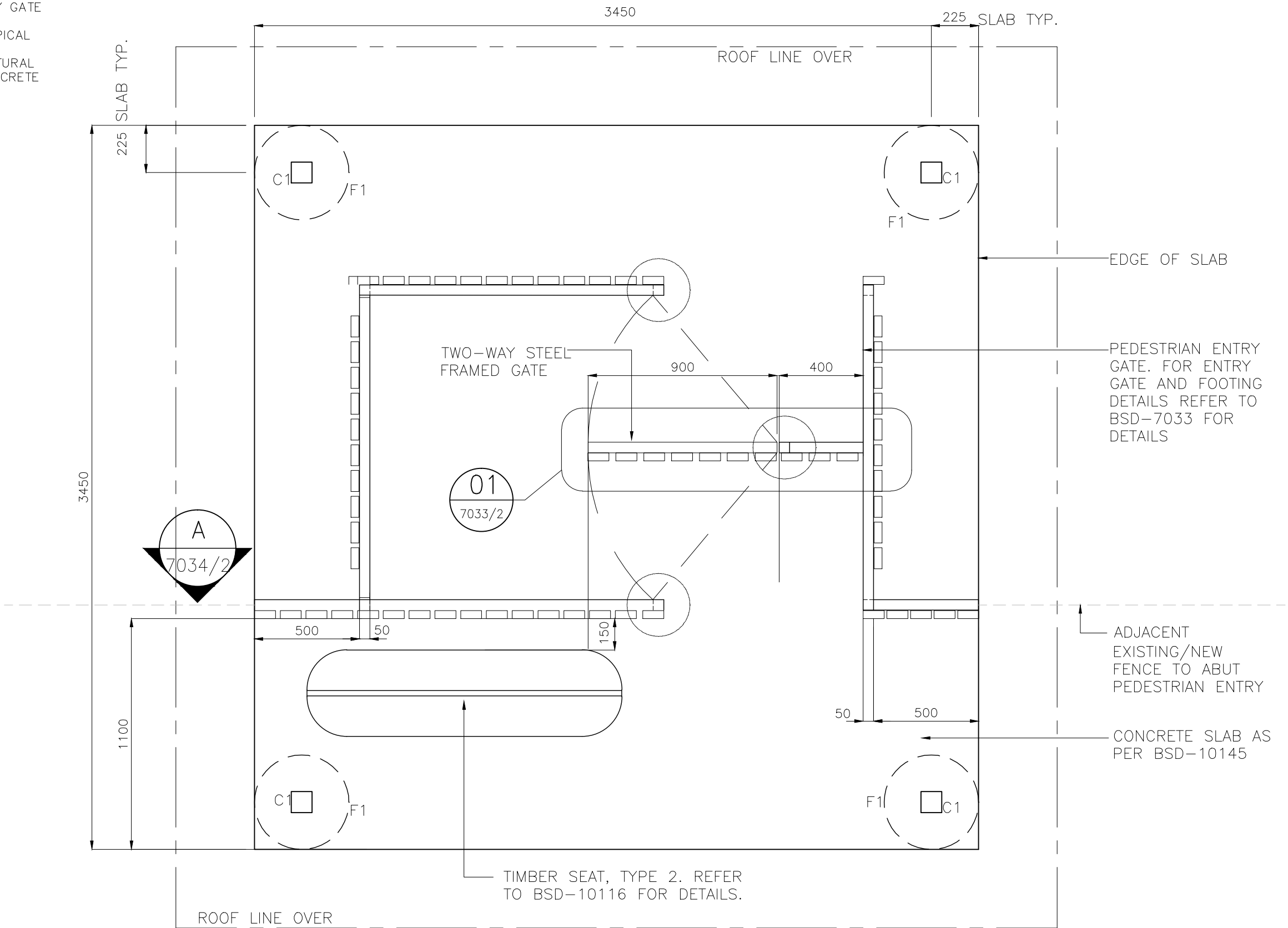





					<div>DRAWING AUTHORISED FOR PUBLICATION</div> <div>Inga Condric 2015.06.04 14:19:59 +10'00"</div> <div>for ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT</div> <div>DESIGN APPROVED</div> <div>C.Wood</div> <div>SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE</div>	DESIGN	CPO – P&D	DATE	DEC '14		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>			
						DRAWN	CPO – P&D	DATE	DEC '14		SCALE AS SHOWN			
						CHECKED	BI – FSG – AS	DATE	DEC '14		DWG No. <b>BSD–7033</b>			
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		DRAWING FILENAME	BSD-7033 (B) Gate - Natural area - Pedestrian entry - Details - Sheet 3 of 3.dwg				<b>GATE – NATURAL AREA – PEDESTRIAN ENTRY – DETAILS SHEET 3 OF 3</b>			
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14		ASSOCIATED PLANS	BSD-7033-Sheets 1 & 2							ORIGINAL SIZE A3
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE										

GENERAL NOTES

- 1. REFER TO BSD-7033 FOR PEDESTRIAN ENTRY GATE AND FOOTING DETAILS.
- 2. REFER TO BSD-7034 SHEET 2 OF 2 FOR TYPICAL ELEVATION.
- 3. REFER TO BSD-10141 SMALL SHELTER – NATURAL AREA FOR SHELTER, SHELTER FOOTINGS, CONCRETE SLAB AND STRUCTURAL DETAILS.

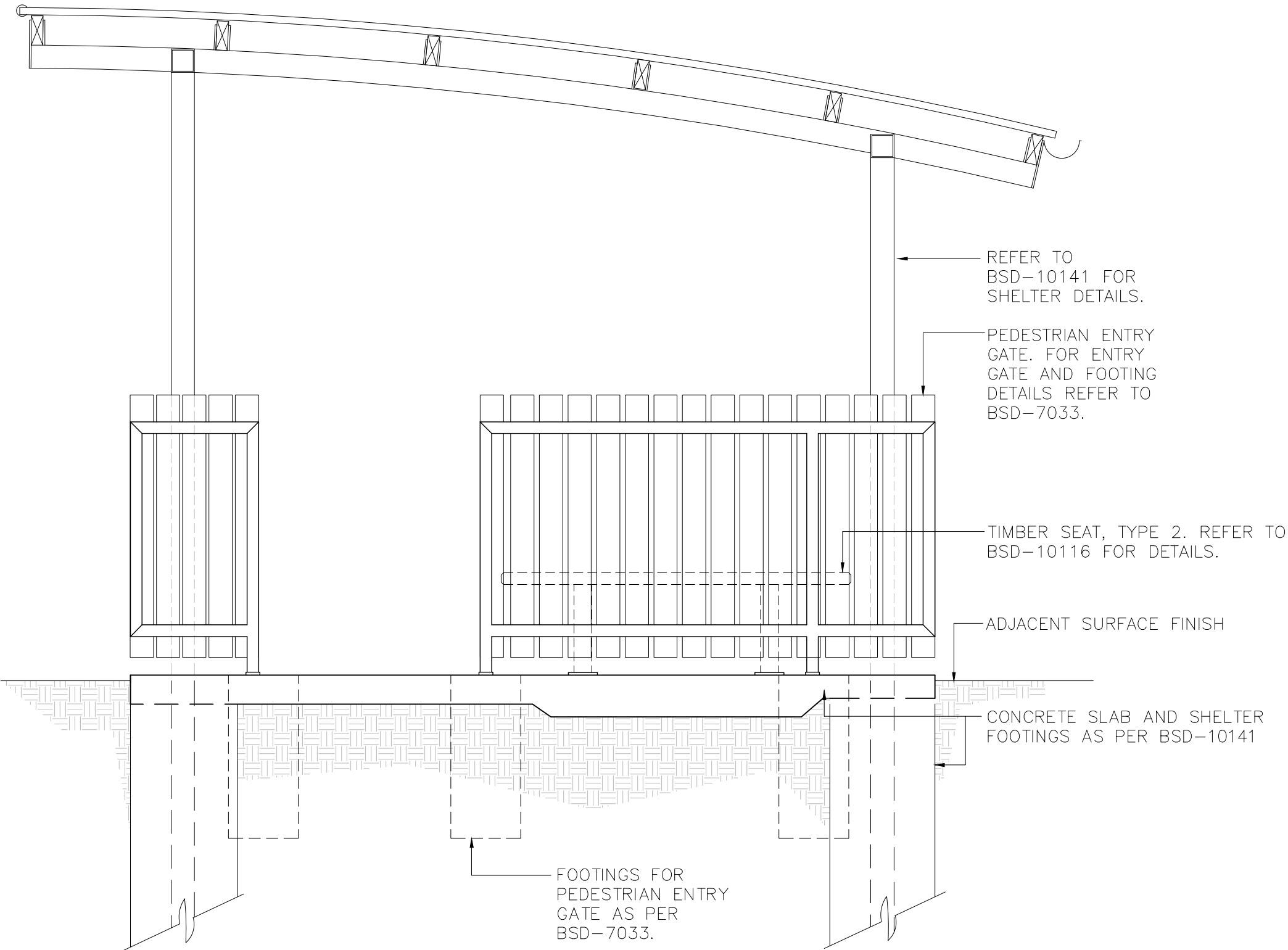


SETOUT PLAN  
SCALE: 1: 20

						DRAWING AUTHORISED FOR PUBLICATION	DESIGN	CP0 - P&D	DATE	MAR '15		BRISBANE CITY COUNCIL STANDARD DRAWING		
						Inga Candric 2015.06.04 14:20:58+10'00' for ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	CP0 - P&D	DATE	MAR '15		<div>GATE – NATURAL AREA – PEDESTRIAN ENTRY WITH SHELTER – SHEET 1 OF 2</div>	SCALE AS SHOWN	
						DESIGN APPROVED	CHECKED	BI - FSG - AS	DATE	MAR '15			DWG No. BSD-7034	
A	ORIGINAL ISSUE		MAR '15	MAR '15	MAR '15	C.Wood	DRAWING FILENAME	BSD-7034 (A) Gate - natural area - pedestrian entry with shelter - sheet 1 of 2.dwg					ORIGINAL SIZE A3	REVISION A
ISSUE	AMENDMENT		DRAWN DATE	CHK'D DATE	APPR'D DATE	SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE	ASSOCIATED PLANS	BSD-7034-Sheet 2						

GENERAL NOTES

- 1. REFER TO BSD-7033 FOR PEDESTRIAN ENTRY GATE AND FOOTING DETAILS.
- 2. REFER TO BSD-7034 SHEET 1 OF 2 FOR PLAN.
- 3. REFER TO BSD-10141 SMALL SHELTER – NATURAL AREA FOR SHELTER, SHELTER FOOTINGS, CONCRETE SLAB AND STRUCTURAL DETAILS.



ENTRY GATE WITH SHELTER – PLAN  
SCALE: 1:20

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GENERAL NOTES & SPECIFICATIONS

1. ENSURE ENTRANCE BARRIERS ARE LOCATED IN ACCORDANCE WITH THE PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
2. POSITION GATES AWAY FROM MAIN PEDESTRIAN AREAS.
3. ENSURE THAT MAINTENANCE VEHICLES CAN ACCESS THE GATE VIA THE STREET OR PATHWAY AREAS WITHIN THE PARK.
4. STOP SIGN TO R1-1 SIGN SPECIFICATIONS IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
5. POSTS TO POSITIONED IN A STRAIGHT LINE WITH ADJOINING BOLLARDS OR BARRIERS AT 1500mm CENTRES.
6. ENSURE ENTRANCE BARRIERS ARE CLEANED OF CONCRETE SLURRY OR SPRAY WHEN INSTALLED TO PREVENT STAINING OR DAMAGE TO APPLIED FINISHES.
7. AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.
8. POSITION LOCKRAILS AWAY FROM MAIN PEDESTRIAN AREAS. ENSURE THAT MAINTENANCE VEHICLES CAN ACCESS THE LOCKRAIL VIA THE STREET OR ROADS AREAS WITHIN THE PARK.
9. PROVIDE A SETBACK OR QUEUING AREA AND FORMED DRIVEWAY BETWEEN THE LOCKRAIL AND STREET AS REQUIRED UNDER THE INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY; TRANSPORT, ACCESS, PARKING AND SERVICING PLANNING SCHEME POLICYOR AS SHOWN ON THE PLAN.
10. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

FIXTURES/FITTINGS/METAL WORK NOTES

- F1. ENTIRE FABRICATION TO BE MILD STEEL HOT-DIPPED GALVANISED TO THE FOLLOWING AUSTRALIANS STANDARDS:

- FERROUS OPEN SECTIONS TO AS4791.

- FERROUS HOLLOW SECTIONS TO AS4792.
- F2. METAL WORK WITHIN FOOTINGS TO BE COAL TAR EPOXIED.
- F3. ENSURE ALL WELDS ARE 5mm THICK CONTINUOUS FILLET WELDS (C.F.W.) TO AS/NZS1554 WITH COLD GALVANISING TREATMENT TO COMPLETED WELDS.
- F4. RAILS TO BE GALVANISED STEEL TUBE TO AS1163 OF THE FOLLOWING SIZES:

- 65NB x 3.6mm WALL (MEDIUM DUTY) FOR USE WITH STEEL POSTS.

- 80NB x 4.0mm WALL (MEDIUM DUTY) FOR USE WITH TIMBER POSTS.
- F5. ARRIS ALL LEADING EDGES, ENSURING ALL WELDING SLAG AND BARBS ARE REMOVED PRIOR TO GALVANISING AND APPLIED FINISHES.
- F6. POWDERCOAT FINISH AFTER GALVANISING TO AS4506 TO POSTS AFTER GALVANISING. FINISH COLOUR TO BE BSD-1003 BRISBANE CITY COUNCIL CORPORATE COLOUR PALLETTE (& AS2700 EQUIVALENT) "YELLOW 5" (AS2700S-1996 "Y11 CANARY" EQUIV.). APPLY REFLECTIVE TAPE IN SPIRAL PATTERN ACROSS RAIL.
- F7. APPLY CLASS 1A RETROREFLECTIVE TAPE IN PATTERN ACROSS TOP RAIL AND POSTS (IF APPLICABLE) AS SHOWN IN ASSOCIATED DETAILS - REFER BSD-7053, BSD-7054 & BSD-7055.
- F8. COUNCIL TO SUPPLY AND INSTALL PADLOCKS. CONTACT COUNCIL ON 3403 8888.
- F9. WHERE POSSIBLE ALL FIXINGS TO BE TAMPER/VANDAL PROOF TO MINIMISE DAMAGE OR THEFT.

CONCRETE WORK NOTES

- C1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS3600.
- C2. 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.
- C3. ALL CEMENT TO BE TYPE GP OR GB TO AS3972 UNLESS SPECIFIED OTHERWISE.
- C4. NOMINAL AGGREGATE SIZE TO BE 20mm, SLUMP TO BE NOT GREATER THAN 80mm.
- C5. THE BOTTOMS OF ALL FOOTINGS ARE TO BE CLEANED OF ALL LOOSE MATERIAL AND WATER PRIOR TO PLACING CONCRETE.

TIMBER WORK NOTES

- T1. 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.
- T2. ALL TIMBER TO BE ACQ PRESSURE TREATED OR TANALITH E (COPPER AZOL) TO AS1608 TREATED ROUGH SAWN APPEARANCE GRADE HARDWOOD OF ONE SPECIES.
- T3. ALL EXPOSED EDGES TO RECEIVE MIN. 5mm WIDE ARRIS.
- T4. PRIOR TO INSTALLATION, ALL CUTS, EDGES, JOINTS TO RECEIVE LIBERAL COATINGS WITH AN APPROVED TIMBER PRESERVATIVE.
- T5. 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 AS5604.
- T6. ALL TIMBER TO BE FREE OF KNOTS, SPLINTERS, CRACKS OR ANY MAJOR DEFECT.
- T7. TIMBER PRESERVATIVES - WHERE NO FINISH SPECIFIED, ALL TIMBER TO RECEIVE 3 x 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.
- T8. COLOUR SELECTION WHERE APPLICABLE IN ACCORDANCE WITH BSD-1003 BRISBANE CITY COUNCIL CORPORATE COLOUR PALLETTE (& AS2700 EQUIVALENT). COAT ENTIRE BOLLARD PRIOR TO PLACING.

REFER TO BSD-7053, BSD-7054  
& BSD-7055 FOR ASSOCIATED  
DETAILS



BRISBANE CITY COUNCIL STANDARD DRAWING

ENTRANCE BARRIERS -  
GENERAL NOTES

PUBLISH DATE		MAR 2021
SCALE		AS SHOWN
DRAWING NUMBER		BSD-7051
ORIGINAL SIZE	REVISION	
A3	D	

REFER TO BSD-7051 FOR  
ASSOCIATED SPECIFICATIONS.

PROVIDE POST END CAP TO TOP OF EACH  
POST."YELLOW 5" POWDERCOATED FINISH  
AFTER GALVANISING - REFER BSD-7051.

42.4x4.0mm CHS HINGE FILLET  
WELDED TO POSTS.

100

42.4x4.0mm CHS HINGE  
FILLET WELDED TO GATE.

BOTH HINGES TO BE LOCATED  
100mm FROM CENTRE OF POST.

SCALE: 1:5

SCALE: 1:5

—ROAD AND BASE TO ENGINEERS DETAILS.

800

GATE POST: 139.7x5.0mm CHS  
— "YELLOW 5" POWDERCOATED FINISH AFTER  
GALVANISING - REFER BSD-7051.

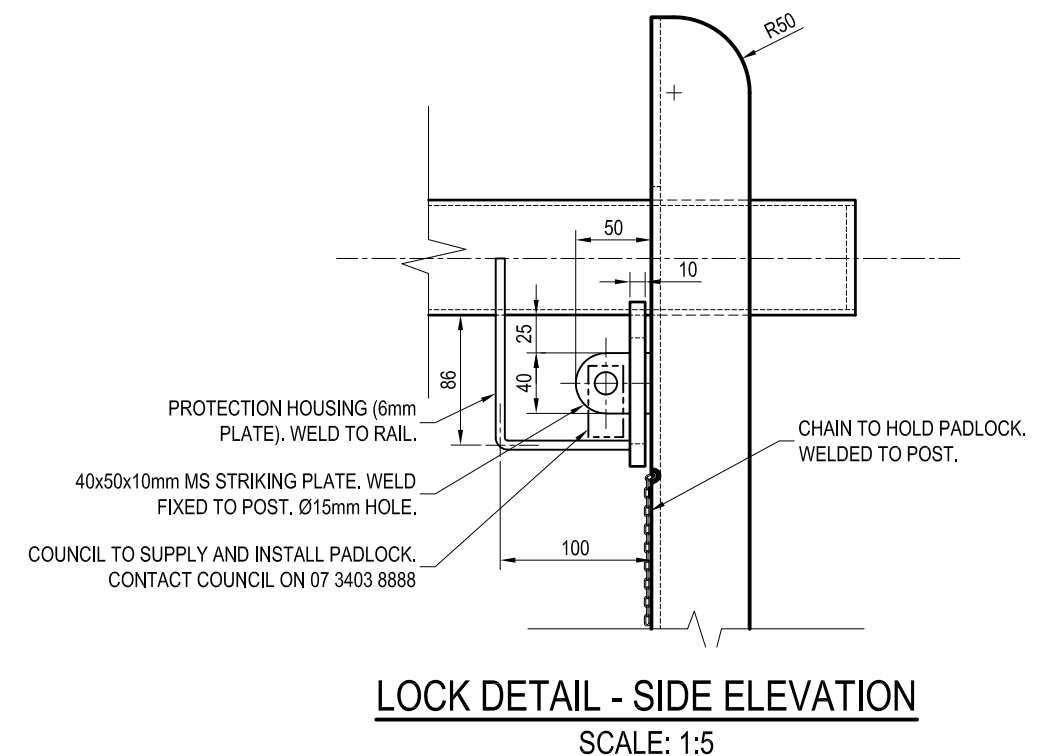
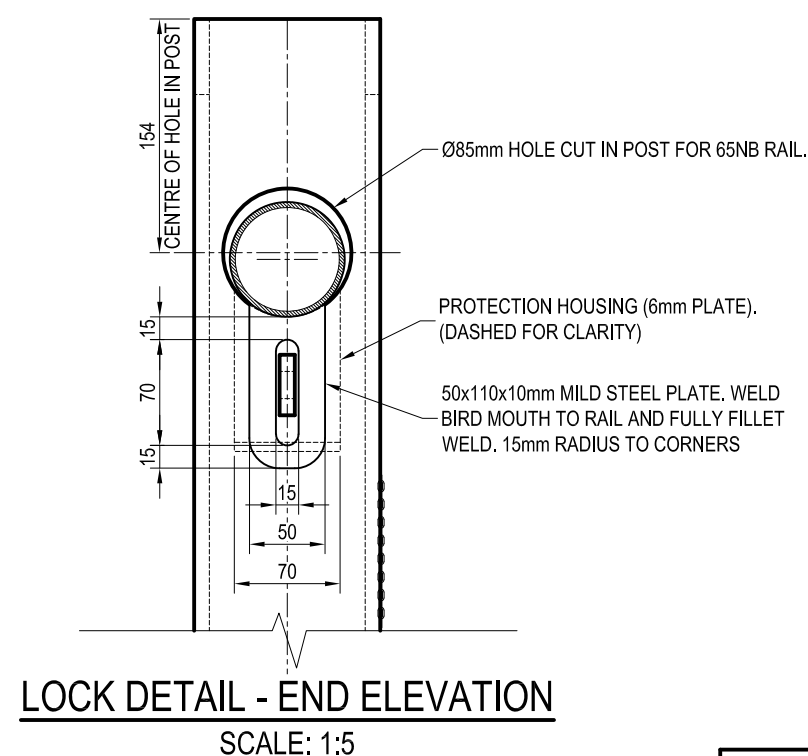
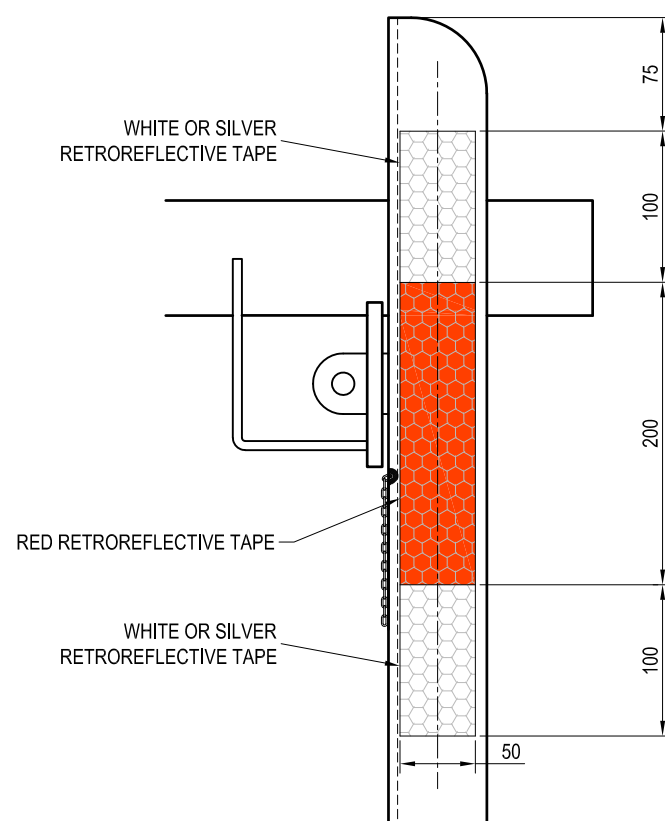
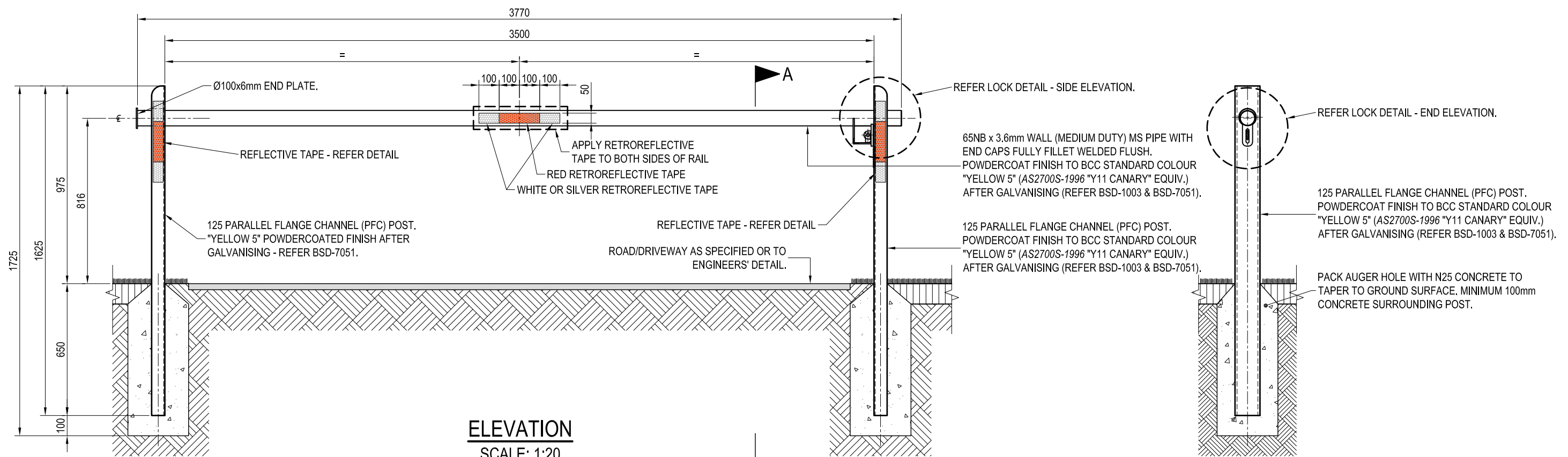
— AT GROUND LEVEL, ANGLE TOP OF FOOTING  
AWAY FROM POST.

10mm PLATE X 200mm Ø FILLET WELDED TO  
BASE OF POST.

SCALE: 1:25



PUBLISH DATE	
MAR 2021	
SCALE	
AS SHOWN	
DRAWING NUMBER	
BSD-7053	
ORIGINAL SIZE	REVISION
A3	B



REFER TO BSD-7051 FOR ASSOCIATED SPECIFICATIONS.

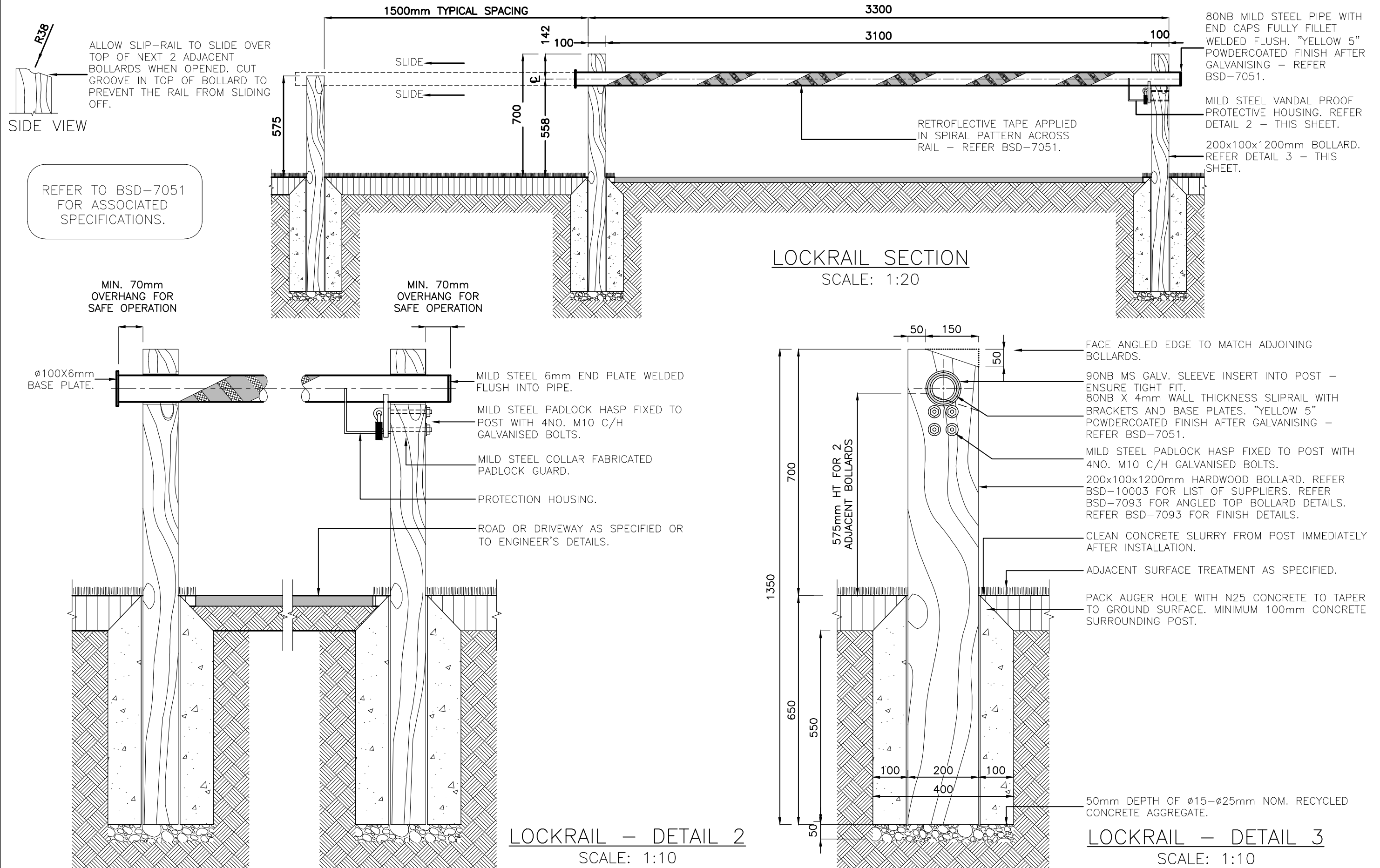



BRISBANE CITY COUNCIL STANDARD DRAWING

ENTRANCE BARRIER -  
LOCKRAIL WITH STEEL POSTS

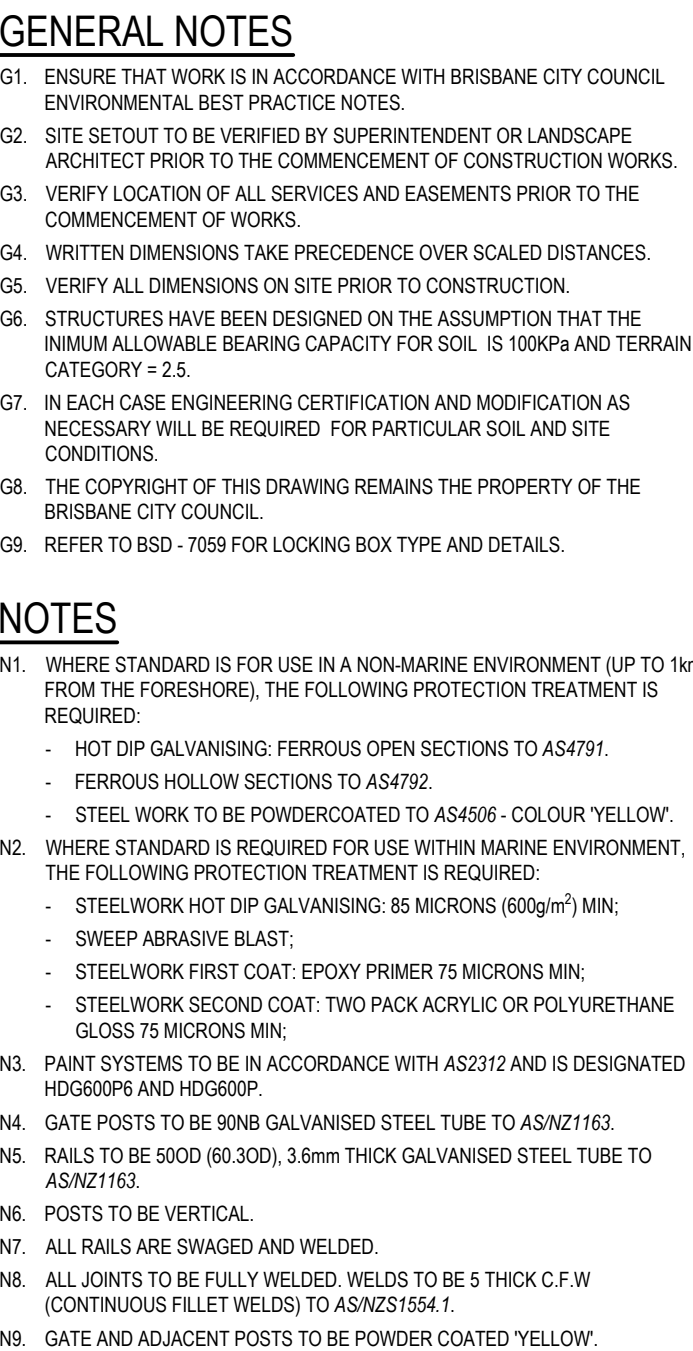
PUBLISH DATE		NOV 2019
SCALE		AS SHOWN
DRAWING NUMBER		BSD-7054
ORIGINAL SIZE	REVISION	
A3	B	






					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		SCALE AS SHOWN		
						CHECKED	UMD - E&P & IMB	DATE	OCT '13		DWG No. BSD-7055		
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04	DRAWING FILENAME	BSD-7055 (A) Entrance barrier - Lockrail with timber posts.dwg				ORIGINAL SIZE A3		
						ASSOCIATED PLANS	SUPERSEDES UMS-730				REVISION A		
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	PRICIPAL PROGRAM OFFICER PARKS						ENTRANCE BARRIER - LOCKRAIL WITH TIMBER POSTS		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE									






					DRAWING AUTHORISED FOR PUBLICATION	DESIGN	CP0 – P&D	DATE	DEC '14		BRISBANE CITY COUNCIL STANDARD DRAWING			
					Inga Condric 2015.06.04 14:37:10+10'00' for ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	CP0 – P&D	DATE	DEC '14		VEHICLE ACCESS GATE NATURAL AREA MEDIUM DUTY	SCALE AS SHOWN		
B	Note Nymbers Added/Updated, AS/NZS Reference in Note N8 Corrected	SEP '18	APR '19	APR '19	DESIGN APPROVED	CHECKED	BI – FSG – AS	DATE	DEC '14			DWG No.	BSD-7057	
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14		DRAWING FILENAME	BSD-7057 (B) Vehicle access gate - Natural area - Medium duty.dwg					ORIGINAL SIZE	REVISION	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APP'R'D DATE		ASSOCIATED PLANS						A3	B	
					C.Wood SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE									



- G1. ENSURE THAT WORK IS IN ACCORDANCE WITH BRISBANE CITY COUNCIL ENVIRONMENTAL BEST PRACTICE NOTES.
- G2. SITE SETOUT TO BE VERIFIED BY SUPERINTENDENT OR LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS.
- G3. VERIFY LOCATION OF ALL SERVICES AND EASEMENTS PRIOR TO THE COMMENCEMENT OF WORKS.
- G4. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DISTANCES.
- G5. VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION.
- G6. STRUCTURES HAVE BEEN DESIGNED ON THE ASSUMPTION THAT THE MINIMUM ALLOWABLE BEARING CAPACITY FOR SOIL IS 100KPa AND TERRAIN CATEGORY = 2.5.
- G7. IN EACH CASE ENGINEERING CERTIFICATION AND MODIFICATION AS NECESSARY WILL BE REQUIRED FOR PARTICULAR SOIL AND SITE CONDITIONS.
- G8. THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE BRISBANE CITY COUNCIL.
- G9. REFER TO BSD-7059 FOR LOCKING BOX TYPE AND DETAILS.

1. WHERE STANDARD IS FOR USE IN A NON-MARINE ENVIRONMENT (UP TO 1KM FROM THE FORESHORE), THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:
  - HOT DIP GALVANISING: FERROUS OPEN SECTIONS TO AS4791.
  - FERROUS HOLLOW SECTIONS TO AS4792.
  - STEEL WORK TO BE POWDERCOATED TO AS4506 - COLOUR 'YELLOW'.
2. WHERE STANDARD IS REQUIRED FOR USE WITHIN MARINE ENVIRONMENT, THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:
  - STEELWORK HOT DIP GALVANISING: 85 MICRONS (600g/m<sup>2</sup>) MIN;
  - SWEEP ABRASIVE BLAST;
  - STEELWORK FIRST COAT: EPOXY PRIMER 75 MICRONS MIN;
  - STEELWORK SECOND COAT: TWO PACK ACRYLIC OR POLYURETHANE GLOSS 75 MICRONS MIN;
3. PAINT SYSTEMS TO BE IN ACCORDANCE WITH AS2312 AND IS DESIGNATED HDG600P6 AND HDG600P.
4. GATE POSTS TO BE 100NB (BLUE BAND) GALVANISED STEEL CONCRETE FILLED AND CAPPED TUBE TO AS/NZ1163.
5. RAILS TO BE 58 NB (BLUE BAND) GALVANISED STEEL TUBE TO AS/NZ1163.
6. ANY GATE POSTS MUST BE 100 NB (BLUE BAND) GALVANISED STEEL TUBE.
7. POSTS TO BE VERTICAL.
8. ALL RAILS ARE SWAGED AND WELDED.
9. ALL JOINTS TO BE FULLY WELDED. WELDS TO BE 5 THICK C.F.W (CONTINUOUS FILLET WELDS) TO AS/NZS1554.1 WITH COLD GALVANISING TREATMENT TO COMPLETED WELDS.
10. PREFERRED COLD GALVANISING TREATMENT FOR IN-SITU WELDS, CUT ENDS OR OTHER BARE STEEL IS TO APPLY 2 COATS OF INORGANIC ZINC PRIMER APPLIED BY BRUSH.
11. STANDARD COUPLINGS (MONOWILLS, SENTAUR JOINTS, KEE-KLAMP, SWAGED JOINTS OR SIMILAR) FOR POST TO RAIL CONNECTIONS MAY BE USED AS AN ALTERNATIVE TO WELDS WHERE APPROVED. 11° MAX REFLECTION FROM HORIZONTAL FOR STANDARD COUPLINGS. FOR ANGLES GREATER THAN 11°, SPECIALIST COUPLINGS MAY BE USED UPON APPROVAL FROM COUNCIL.
12. GATE AND ADJACENT POSTS TO BE POWDER COATED 'YELLOW'.

					<div>DRAWING AUTHORISED FOR PUBLICATION</div> <div>Inga Condric 2015_06_04 14:37:57+10'00'</div> <div>for ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT</div> <div>DESIGN APPROVED</div> <div>C.Wood</div> <div>SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE</div>	DESIGN	CPD - P&D	DATE	DEC '14		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>		
						DRAWN	CPD - P&D	DATE	DEC '14				
						CHECKED	BI - FSG - AS	DATE	DEC '14		DWG No.	BSD-7058	
B	AS/NZS Reference in Note 9 Corrected	SEP '18	APR '19	APR '19		DRAWING FILENAME	BSD-7058 (B) Vehicle access gate - Natural area - Heavy duty.dwg				ORIGINAL SIZE	REVISION	
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14	ASSOCIATED PLANS				A3		B		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APP'R'D DATE							VEHICLE ACCESS GATE NATURAL AREA HEAVY DUTY		




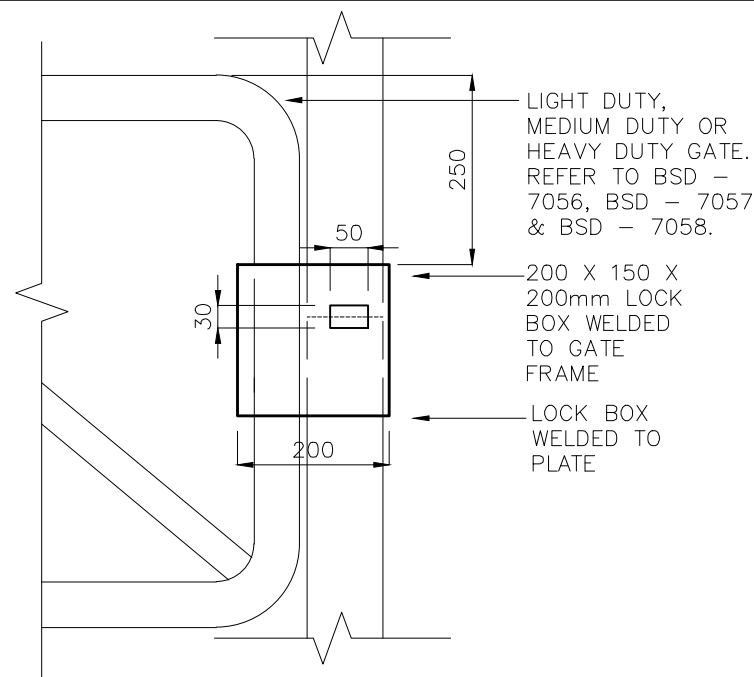
## GENERAL NOTES

- G1. ENSURE THAT WORK IS IN ACCORDANCE WITH BRISBANE CITY COUNCIL ENVIRONMENTAL BEST PRACTICE NOTES.
- G2. SITE SETOUT TO BE VERIFIED BY SUPERINTENDENT OR LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS.
- G3.. VERIFY LOCATION OF ALL SERVICES AND EASEMENTS PRIOR TO THE COMMENCEMENT OF WORKS.
- G4. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DISTANCES.
- G5. VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION.
- G6. THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE BRISBANE CITY COUNCIL.

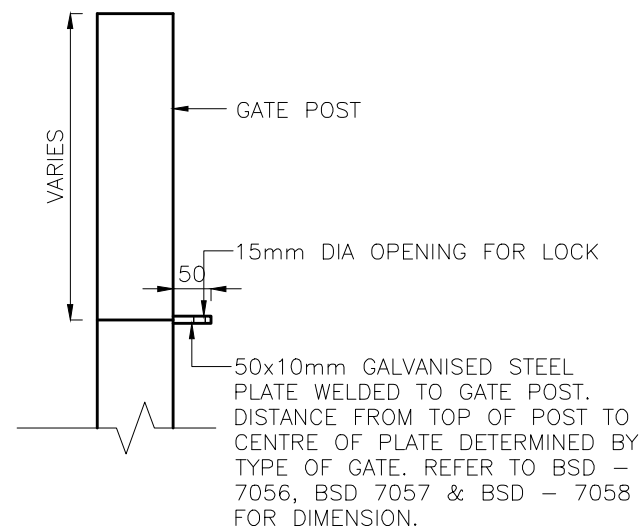
## NOTES

1. WHERE STANDARD IS FOR USE IN A NON-MARINE ENVIRONMENT (UP TO 1KM FROM THE FORESHORE), THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:
  - HOT DIP GALVANISING: FERROUS OPEN SECTIONS TO AS4791.
  - FERROUS HOLLOW SECTIONS TO AS4792.
  - STEEL WORK TO BE POWDERCOATED TO AS4506 - COLOUR 'YELLOW'.
2. WHERE STANDARD IS REQUIRED FOR USE WITHIN MARINE ENVIRONMENT, THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:
  - STEELWORK HOT DIP GALVANISING: 85 MICRONS (600g/m<sup>2</sup>) MIN;
  - SWEEP ABRASIVE BLAST;
  - STEELWORK FIRST COAT: EPOXY PRIMER 75 MICRONS MIN;
  - STEELWORK SECOND COAT: TWO PACK ACRYLIC OR POLYURETHANE GLOSS 75 MICRONS MIN;
3. PAINT SYSTEMS TO BE IN ACCORDANCE WITH AS2312 AND IS DESIGNATED HDG600P6 AND HDG600P
4. ALL JOINTS TO BE FULLY WELDED. WELDS TO BE 5 THICK C.F.W (CONTINUOUS FILLET WELDS) TO AS/NZS1554.1 WITH COLD GALVANISING TREATMENT TO COMPLETED WELDS.
5. LOCKING BOX, GATE AND ADJACENT POSTS TO BE POWDER COATED 'YELLOW'.

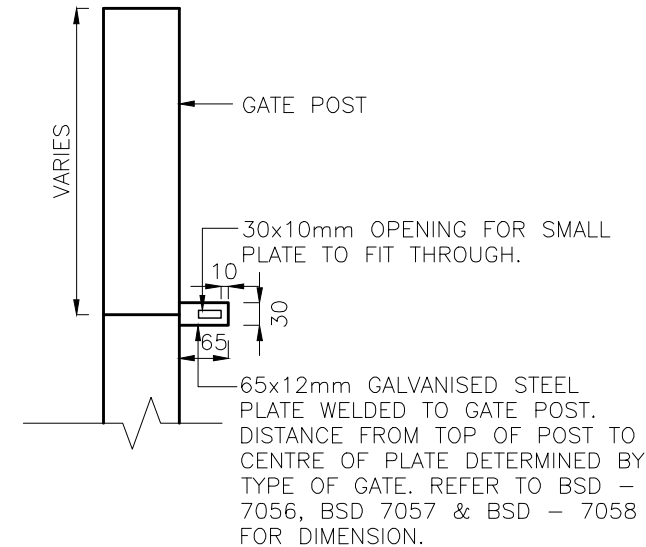
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C	AS/NZS Rreference in Note 4 Corrected	SEP '18	APR '19	APR '19	<div>DESIGN APPROVED <div>C.Wood</div><div>SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE</div></div>	DRAWN	CPD - P&D	DATE	DEC '14		SCALE AS SHOWN		
B	Drawing Title Amended	FEB '16	FEB '16	FEB '16		CHECKED	BI - FSG - AS	DATE	DEC '14		Dwg No. BSD-7059		
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14		DRAWING FILENAME	BSD-7059 (C) Gate - Natural area - Locking boxes - Notes - Sheet 1 of 2.dwg				ORIGINAL SIZE A3		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	BSD-7059-Sheet 2				REVISION C		
										GATE - NATURAL AREA - LOCKING BOXES - NOTES SHEET 1 OF 2			



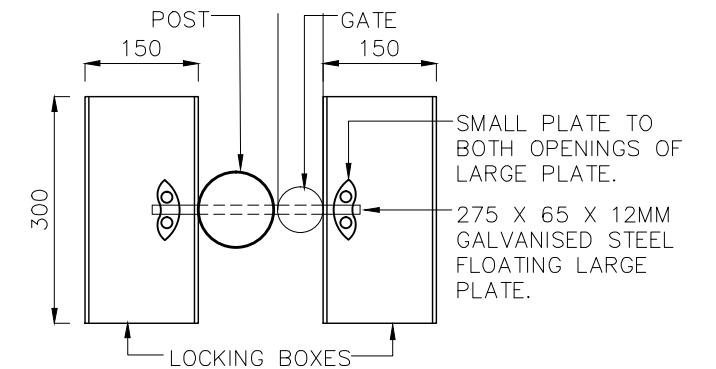
**SINGLE LOCK – LOCKING BOX – ELEVATION**  
SCALE: 1:10



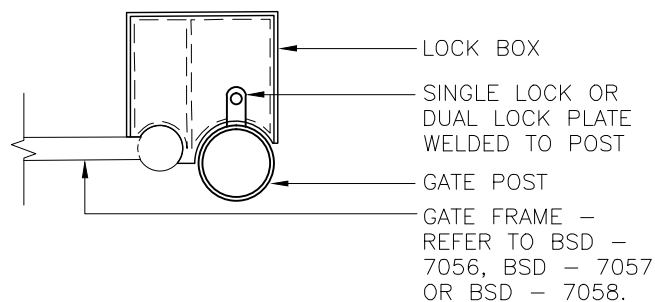
**SINGLE LOCK – PLATE TO POST DETAIL – ELEVATION**  
SCALE: 1:10



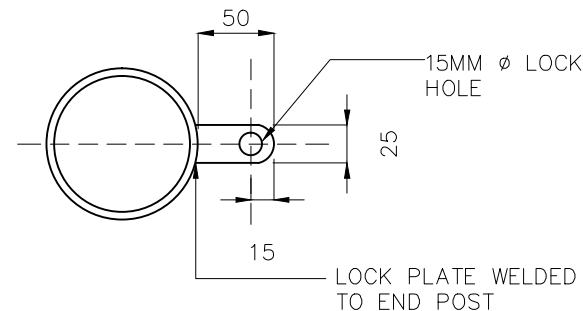
**DUAL LOCK – PLATE TO POST DETAIL – ELEVATION**  
SCALE: 1:10



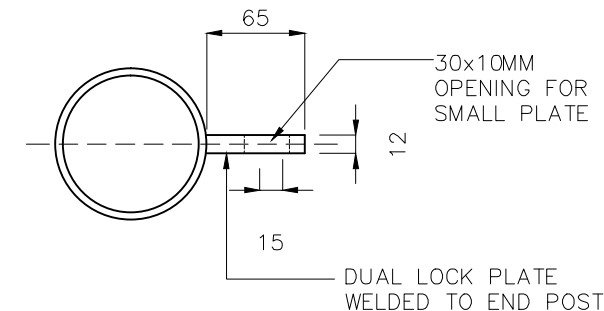
**MULTIPLE LOCK – LOCKING BOX – PLAN**  
SCALE: 1:10



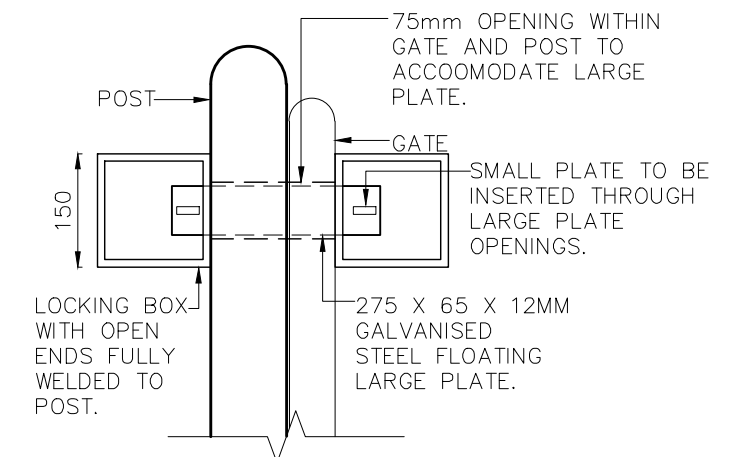
**SINGLE LOCK – LOCKING BOX – PLAN**  
SCALE: 1:5



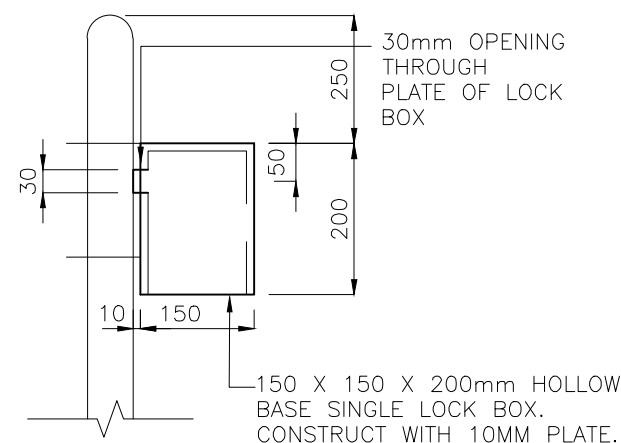
**SINGLE LOCK PLATE TO POST DETAIL – PLAN**  
SCALE: 1:5



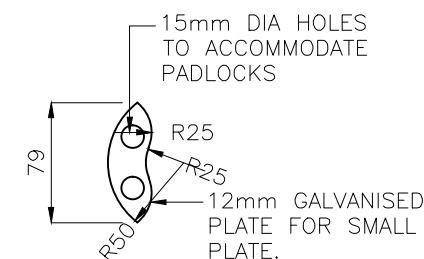
**DUAL LOCK PLATE TO POST DETAIL – PLAN**  
SCALE: 1:5



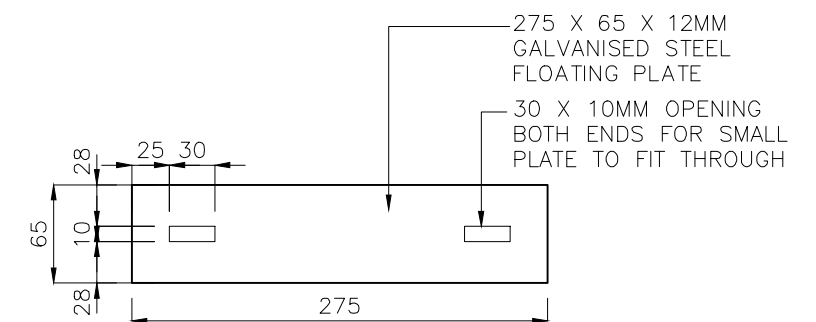
**MULTIPLE LOCK – LOCKING BOX – SECTION**  
SCALE: 1:10




**SINGLE LOCK – SIDE ELEVATION**  
SCALE: 1:10



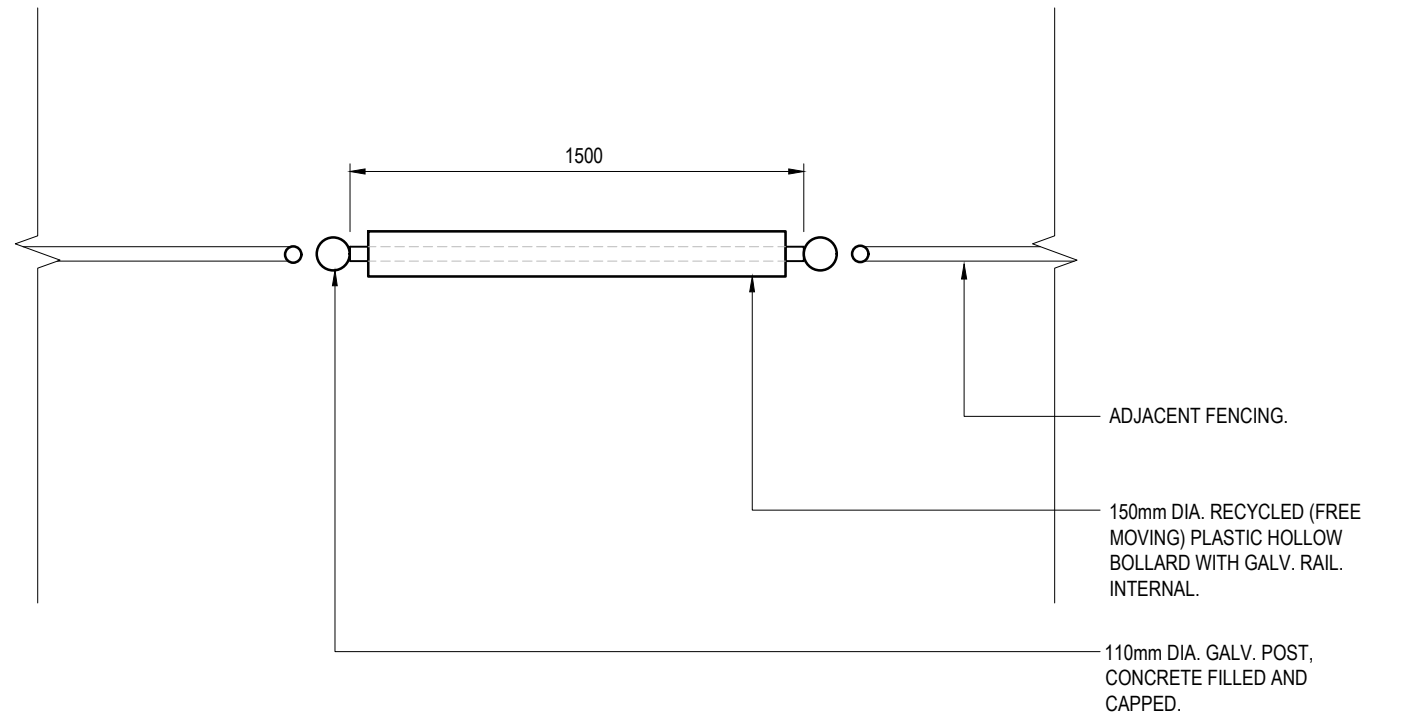
**SMALL PLATE – DUAL/MULTIPLE LOCK – LOCKING BOX**  
SCALE: 1:5



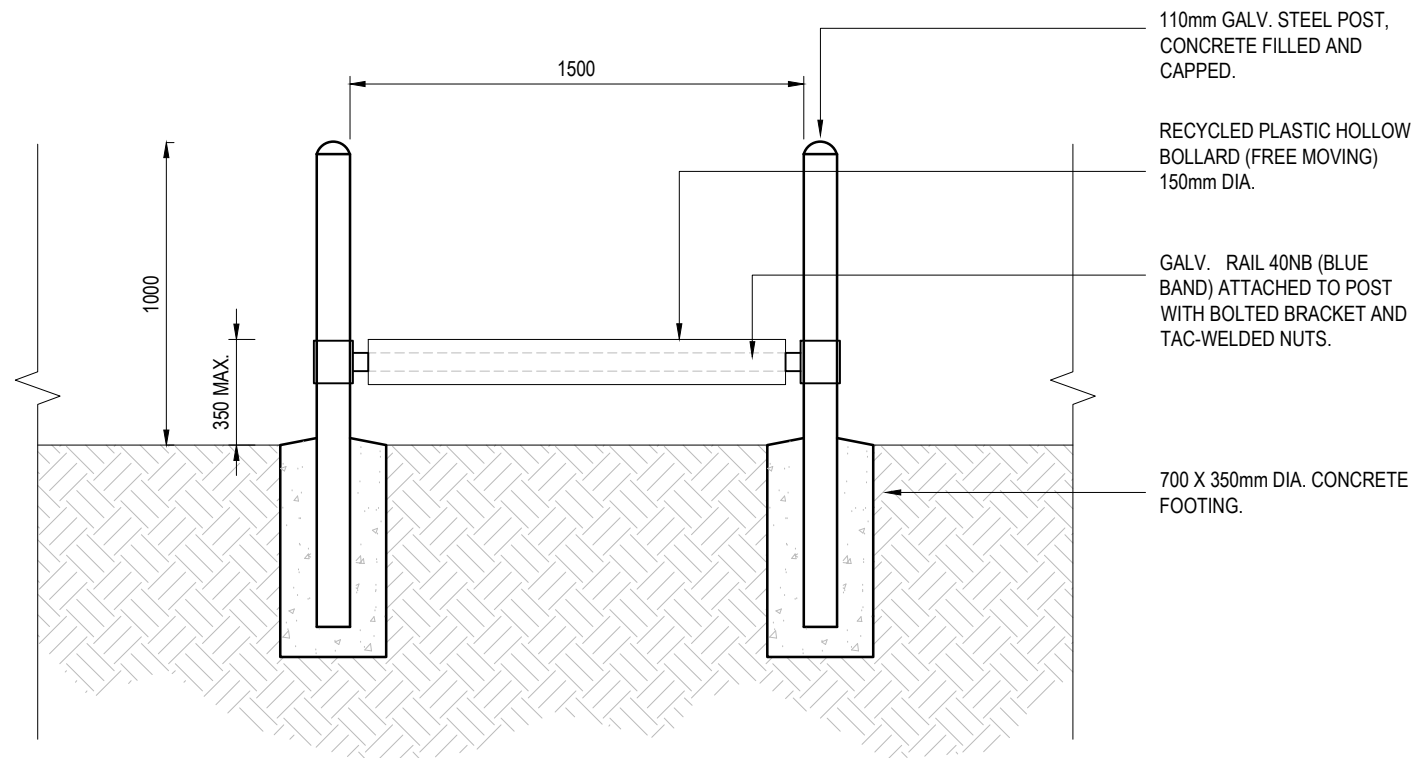
**LARGE PLATE – MULTIPLE LOCK – LOCKING BOX**  
SCALE: 1:5

					DRAWING AUTHORISED FOR PUBLICATION  Inga Condric 2015.06.04 14:38:45+10'00' ----- for ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT  DESIGN APPROVED  ----- C. Wood SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE	DESIGN	CPD - P & D	DATE	DEC '14		BRISBANE CITY COUNCIL STANDARD DRAWING		
						DRAWN	CPD - P & D	DATE	DEC '14				
						CHECKED	BI - FSG - AS	DATE	DEC '14		DWG No.	BSD-7059	
B	Drawing Title Amended					DRAWING FILENAME	BSD-7059 (B) Gate - Natural area - Locking boxes - Details - Sheet 2 of 2.dwg				ORIGINAL SIZE	A3	
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14	ASSOCIATED PLANS	BSD-7059-Sheet 1			REVISION		B		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	GATE – NATURAL AREA – LOCKING BOXES – DETAILS SHEET 2 OF 2								

**GATE – NATURAL AREA – LOCKING BOXES – DETAILS**  
**SHEET 2 OF 2**



PLAN VIEW  
SCALE: 1:25



HORSE STILE SECTIONAL ELEVATION  
SCALE 1:25

## GENERAL NOTES

1. ENSURE THAT WORK IS IN ACCORDANCE WITH BRISBANE CITY COUNCIL ENVIRONMENTAL BEST PRACTICE NOTES.
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3. VERIFY LOCATION OF ALL SERVICES AND EASEMENTS PRIOR TO THE COMMENCEMENT OF WORKS.
4. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DISTANCES.
5. VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION.
6. STRUCTURES HAVE BEEN DESIGNED ON THE ASSUMPTION THAT THE MINIMUM ALLOWABLE BEARING CAPACITY FOR SOIL IS 100KPa AND TERRAIN CATEGORY = 2.5.
7. IN EACH CASE ENGINEERING CERTIFICATION AND MODIFICATION AS NECESSARY WILL BE REQUIRED FOR PARTICULAR SOIL AND SITE CONDITIONS.
8. THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE BRISBANE CITY COUNCIL.
9. DIMENSIONS IN MILLIMETRES (U.N.O.).

## STEELWORK NOTES:

- S1. WHERE STANDARD IS FOR USE IN A NON-MARINE ENVIRONMENT (COULD BE UP TO 1KM FROM THE FORESHORE), THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:
  - HOT DIP GALVANISING: FERROUS OPEN SECTIONS TO AS4791.
  - FERROUS HOLLOW SECTIONS TO AS4792.
- S2. WHERE STANDARD IS REQUIRED FOR USE WITHIN MARINE ENVIRONMENT, THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:
  - STEELWORK HOT DIP GALVANISING: 85 MICRONS (600g/m<sup>2</sup>) MIN;
  - SWEEP ABRASIVE BLAST;
  - STEELWORK FIRST COAT: EPOXY PRIMER 75 MICRONS MIN;
  - STEELWORK SECOND COAT: TWO PACK ACRYLIC OR POLYURETHANE GLOSS 75 MICRONS MIN;
- S3. PAINT SYSTEMS TO BE IN ACCORDANCE WITH AS2312 AND IS DESIGNATED HDG600P6 AND HDG600P.
- S4. RAILS TO BE 40 NB (BLUE BAND) GALVANISED STEEL TUBE TO AS/NZ1163.
- S5. GALVANISED STEEL POSTS TO BE 110mm DIAMETER, CONCRETE FILLED AND CAPPED.

## FOOTINGS

- FT1. AS DETAILED. CONCRETE TO BE N25, MAX AGGREGATE SIZE 20mm, MAX SLUMP 80mm.

## FIXINGS


- FX1. STEP OVER RAILS TO BE FIXED WITH BOLTED BRACKET AND TAC-WELDED NUTS (TO ALLOW REPLACEMENT OF PLASTIC SLEEVE AS NECESSARY).

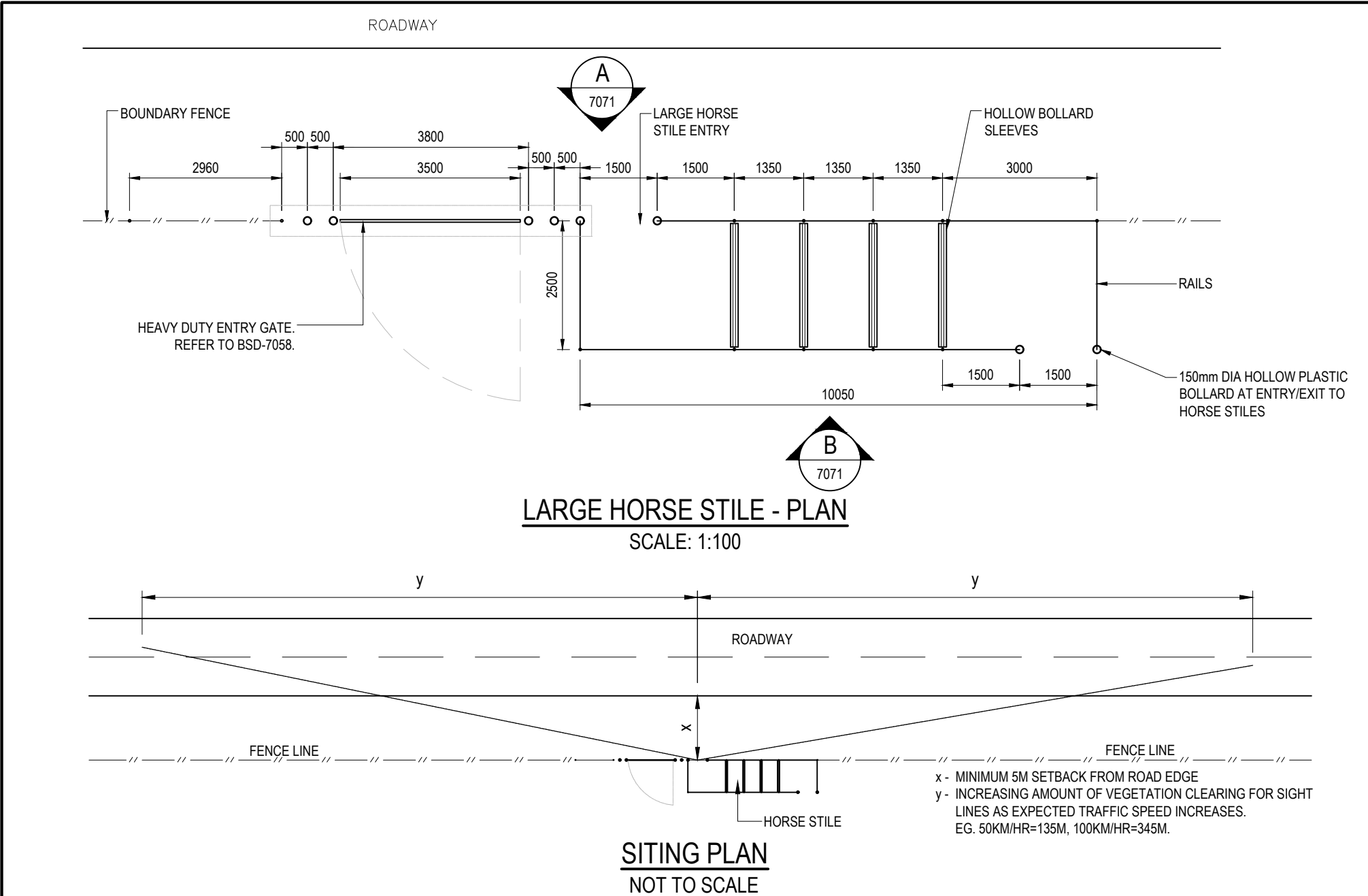
## FINISHES

- FN1. ALL ADJACENT RAILS ARE SWAGED AND WELDED. SWAGES TO BE ON INSIDE OF FENCE AND NOT FACING PUBLIC ROADS, ETC).
- FN2. ALL JOINTS TO BE FULLY WELDED. WELDS TO BE 5 THICK C.F.W (CONTINUOUS FILLET WELDS) TO AS/NZS1554.1 WITH COLD GALVANISING TREATMENT TO COMPLETED WELDS.
- FN3. PREFERRED COLD GALVANISING TREATMENT FOR IN-SITU WELDS, CUT ENDS OR OTHER BARE STEEL IS TO APPLY 2 COATS OF INORGANIC ZINC PRIMER APPLIED BY BRUSH.
- FN4. NO SHARP PROTRUSIONS OR UNPROTECTED RAIL ENDS WITHIN HORSE STILE STRUCTURE.

## RECYCLED PLASTIC MATERIAL NOTES

- R1. RECYCLED PLASTIC BOLLARDS TO BE 150mm DIAMETER; (SUPPLIED BY BCC FOR INSTALL).
- R2. PLASTIC SLEEVE ON STEP-OVER RAILS TO BE FREE MOVING.
- R3. SECTIONS TO BE FORMED FROM A SINGLE CONTINUOUSLY EXTRUDED PIECE.
- R4. MATERIAL TO BE UV STABILISED.
- R5. POROSITY TO A MAXIMUM OF 15% OF CROSS SECTION.
- R6. MAXIMUM VOID LENGTH 10% OF LARGEST CROSS SECTION.
- R7. SURFACE FINISH TO BE SMOOTH AND FREE OF ANY MAJOR VOIDS OR VISIBLE DEFECTS.
- R8. COLOUR TO BE CHOSEN FROM AVAILABLE SUPPLIER COLOURS, TYPICALLY GREEN.
- R9. MATERIAL TO HAVE FLAMMABILITY TESTING TO AS/ISO9239.1 AND/OR FIRE HAZARD RATING TO AS/NZS1530.3.
- R10. DEMONSTRATED CHEMICAL RESISTANCE.

					DRAWING AUTHORISED FOR PUBLICATION								BRISBANE CITY COUNCIL STANDARD DRAWING									
					Inga Condric 2015.06.04 14:40:19+10'00' for ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT								ENTRANCE BARRIER NATURAL AREA SMALL HORSE STILE									
					DESIGN APPROVED																	
					C. Wood SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE																	
					DESIGN	CPD - P&D	DATE	DEC '14					SCALE AS SHOWN									
					DRAWN	CPD - P&D	DATE	DEC '14														
					CHECKED	BI - FSG - AS	DATE	DEC '14	DRAWING FILENAME BSD-7070 (B) Entrance barrier - Natural area - Small horse stile.dwg		DWG No. BSD-7070											
					ASSOCIATED PLANS						ORIGINAL SIZE A3											
B	Notes Numbers Amended, AS/NZS Reference to Note FN2 Corrected	SEP '18	APR '19	APR '19																		
A	ORIGINAL ISSUE	DEC '14	DEC '14	DEC '14																		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE																		



## GENERAL NOTES

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4. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DISTANCES.
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8. THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE BRISBANE CITY COUNCIL.
9. DIMENSIONS IN MILLIMETRES (UNO).

## SITING NOTES

- SN1. IF HORSE STILE IS LOCATED NEAR A ROAD/CARRIAGEWAY, SETBACK SHOULD BE A MINIMUM OF 5m AND ROADSIDE ADVISORY SIGNS INSTALLED ACCORDING TO SIGHT LINE PRINCIPLES. DISTANCE FROM CROSSING POINT IS DEPENDENT UPON THE MAXIMUM SPEED OF APPROACHING TRAFFIC REFER TO SITING PLAN.
- SN2. A HOLDING AREA OF APPROX 10 X 5m ON ROAD/CARRIAGEWAY VERGE (EDGE) WILL PROVIDE SPACE FOR HORSE AND RIDER TO WAIT UNTIL IT IS SAFE TO CROSS.
- SN3. HOLDING AREA ON ROAD VERGE NEEDS TO BE CLEAR OF VEGETATION OR OTHER OBSTRUCTIONS TO ENSURE SIGHT LINES TO AND FROM THE HORSE STILE ENTRANCE IS MAINTAINED.
- SN4. SIGHT LINES TO BE CLEAR OF VEGETATION BETWEEN 1-5m HEIGHT WITH THE COMPLETE REMOVAL OF ANY TREES/SHRUBS <150mm DBH (DIAMETER AT BREAST HEIGHT). ENSURE APPROPRIATE APPROVALS ARE RECEIVED PRIOR TO ANY REMOVALS.

## STEELWORK

- SW1. WHERE STANDARD IS FOR USE IN A NON-MARINE ENVIRONMENT (COULD BE UP TO 1KM FROM THE FORESHORE), THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:
- HOT DIP GALVANISING: FERROUS OPEN SECTIONS TO AS4791.
  - FERROUS HOLLOW SECTIONS TO AS4792.
- SW2. WHERE STANDARD IS REQUIRED FOR USE WITHIN MARINE ENVIRONMENT, THE FOLLOWING PROTECTION TREATMENT IS REQUIRED:
- STEELWORK HOT DIP GALVANISING: 85 MICRONS (600g/m<sup>2</sup>) MIN;
  - SWEEP ABRASIVE BLAST;
  - STEELWORK FIRST COAT: EPOXY PRIMER 75 MICRONS MIN;
  - STEELWORK SECOND COAT: TWO PACK ACRYLIC OR POLYURETHANE GLOSS 75 MICRONS MIN;
- SW3. PAINT SYSTEMS TO BE IN ACCORDANCE WITH AS2312 AND IS DESIGNATED HDG600P6 AND HDG600P.
- SW4. ALL POSTS TO BE 50 NB (BLUE BAND) GALVANISED STEEL TUBE TO AS/NZ1163.
- SW5. RAILS TO BE 40 NB (BLUE BAND) GALVANISED STEEL TUBE TO AS/NZ1163.

- SW6. ANY GATE POSTS MUST BE 100 NB (BLUE BAND) GALVANISED STEEL TUBE.
- SW7. POSTS TO BE VERTICAL.
- SW8. S11 STANDARD COUPLINGS (MONOWILLS, SENTAUR JOINTS, KEE-KLAMP, SWAGED JOINTS OR SIMILAR) FOR POST TO RAIL CONNECTIONS MAY BE USED AS AN ALTERNATIVE TO WELDS WHERE APPROVED. 11° MAX REFLECTION FROM HORIZONTAL FOR STANDARD COUPLINGS. FOR ANGLES GREATER THAN 11°, SPECIALIST COUPLINGS MAY BE USED UPON APPROVAL FROM COUNCIL.

## FOOTINGS

- FT1. AS DETAILED. CONCRETE TO BE N25, MAX AGGREGATE SIZE 20mm, MAX SLUMP 80mm.

## FIXINGS

- FX1. STEP OVER RAILS TO BE FIXED WITH BOLTED BRACKET AND TAC-WELDED NUTS (TO ALLOW REPLACEMENT OF PLASTIC SLEEVE AS NECESSARY).

## FINISHES

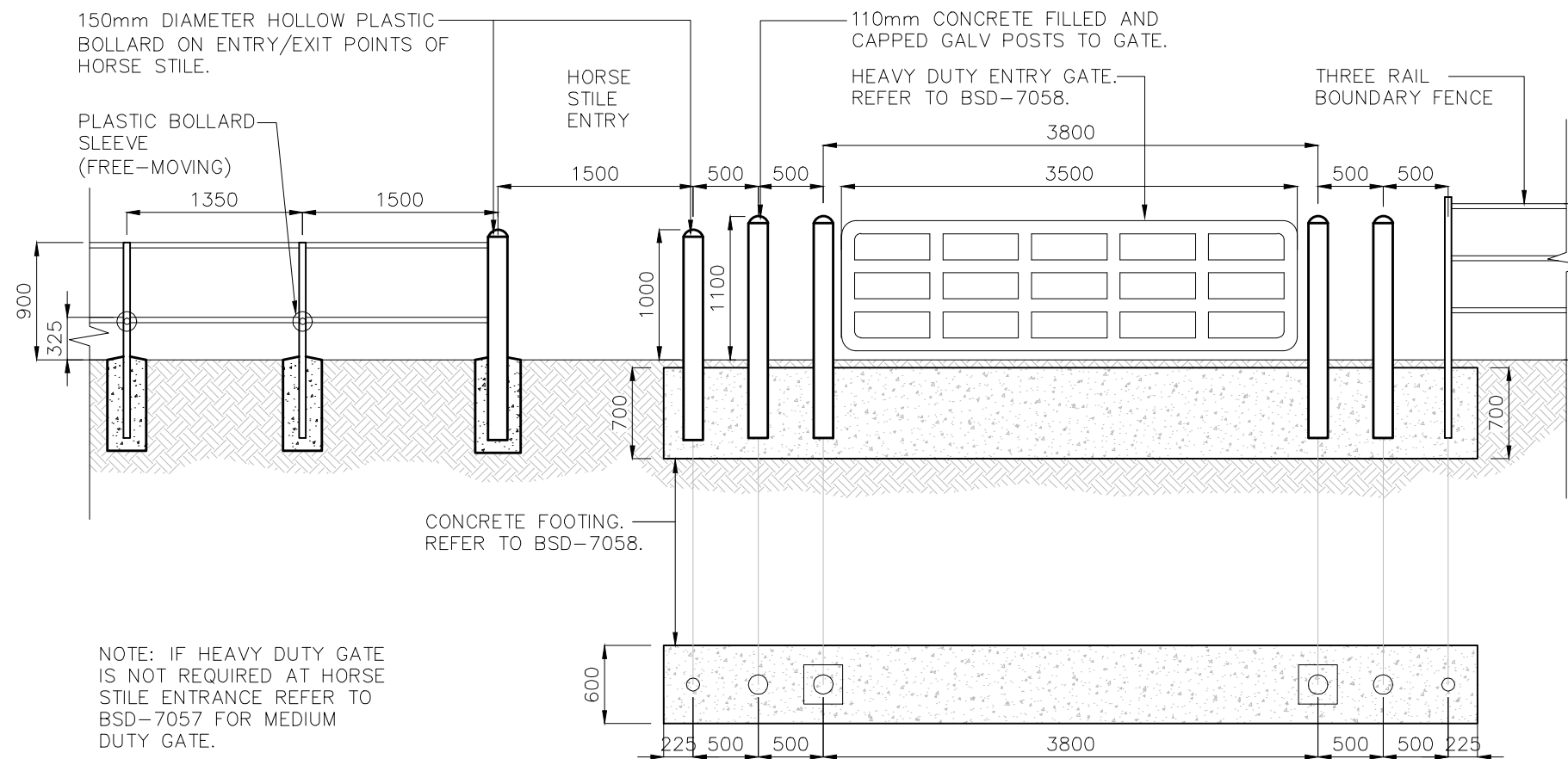
- FN1. ALL RAILS ARE SWAGED AND WELDED. SWAGES TO BE ON INSIDE OF FENCE AND NOT FACING PUBLIC ROADS, ETC).
- FN2. ALL JOINTS TO BE FULLY WELDED. WELDS TO BE 5 THICK C.F.W (CONTINUOUS FILLET WELDS) TO AS/NZS1554.1 WITH COLD GALVANISING TREATMENT TO COMPLETED WELDS.
- FN3. PREFERRED COLD GALVANISING TREATMENT FOR IN-SITU WELDS, CUT ENDS OR OTHER BARE STEEL IS TO APPLY 2 COATS OF INORGANIC ZINC PRIMER APPLIED BY BRUSH.
- FN4. GATE HINGES TO BE WELDED (NOT BOLTED BRACKETS).
- FN5. NO SHARP PROTRUSIONS OR UNPROTECTED RAIL ENDS WITHIN HORSE STILE STRUCTURE.

## RECYCLED PLASTIC MATERIAL NOTES

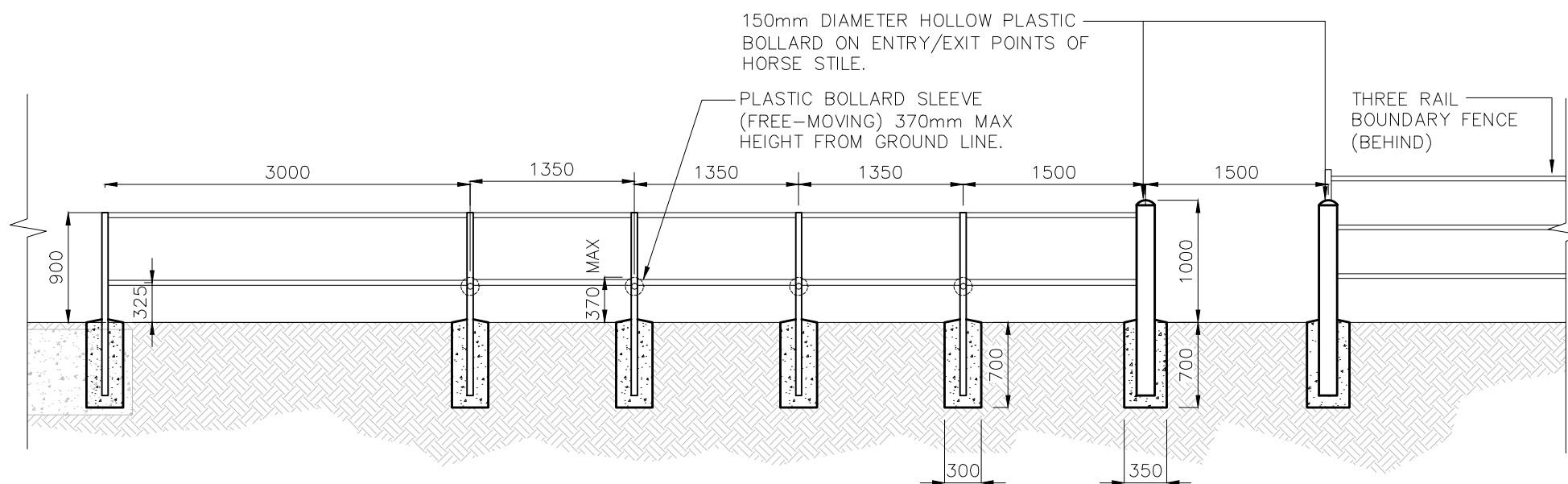
- R1. PLASTIC SLEEVE ON STEP-OVER RAILS TO BE FREE MOVING.
- R2. SECTIONS TO BE FORMED FROM A SINGLE CONTINUOUSLY EXTRUDED PIECE.
- R3. MATERIAL TO BE UV STABILISED.
- R4. POROSITY TO A MAXIMUM OF 15% OF CROSS SECTION.
- R5. MAXIMUM VOID LENGTH 10% OF LARGEST CROSS SECTION.
- R6. SURFACE FINISH TO BE SMOOTH AND FREE OF ANY MAJOR VOIDS OR VISIBLE DEFECTS.
- R7. COLOUR TO BE CHOSEN FROM AVAILABLE SUPPLIER COLOURS, TYPICALLY GREEN.
- R8. MATERIAL TO HAVE FLAMMABILITY TESTING TO AS/ISO9239.1 AND/OR FIRE HAZARD RATING TO AS/NZS1530.3.
- R9. DEMONSTRATED CHEMICAL RESISTANCE.

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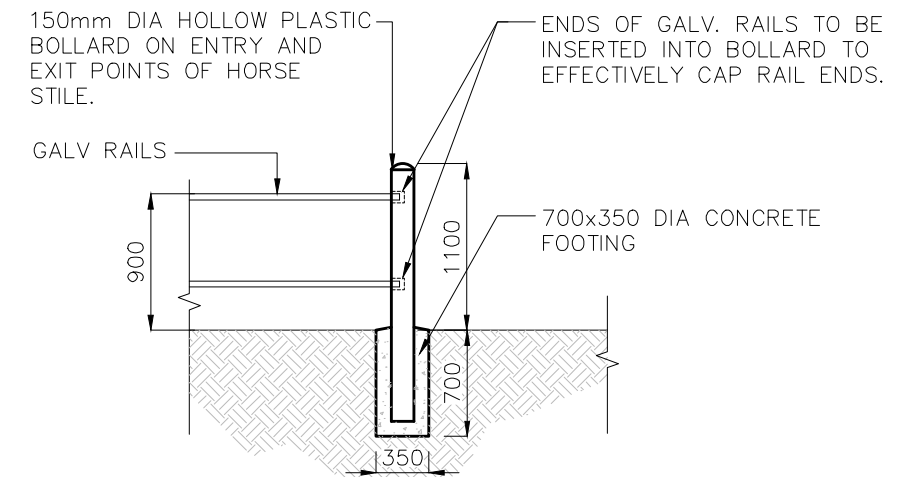




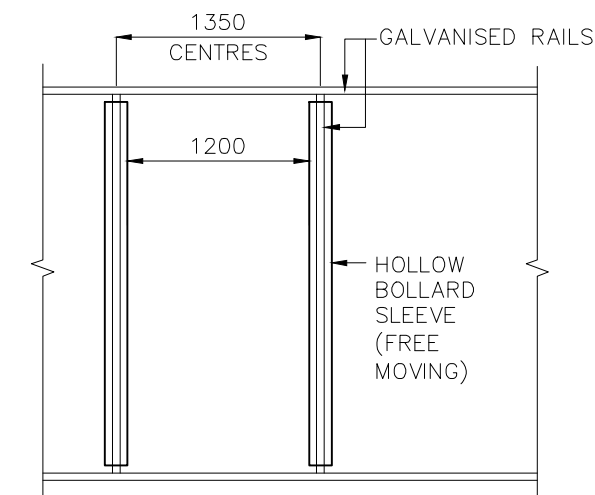
ELEVATION A – EXTERNAL ELEVATION OF HORSE STILE AND ENTRY GATE  
SCALE 1:50



ELEVATION B – INTERNAL ELEVATION OF HORSE STILE  
SCALE 1:50




BOLLARD AND RAIL DETAIL  
SCALE 1:50

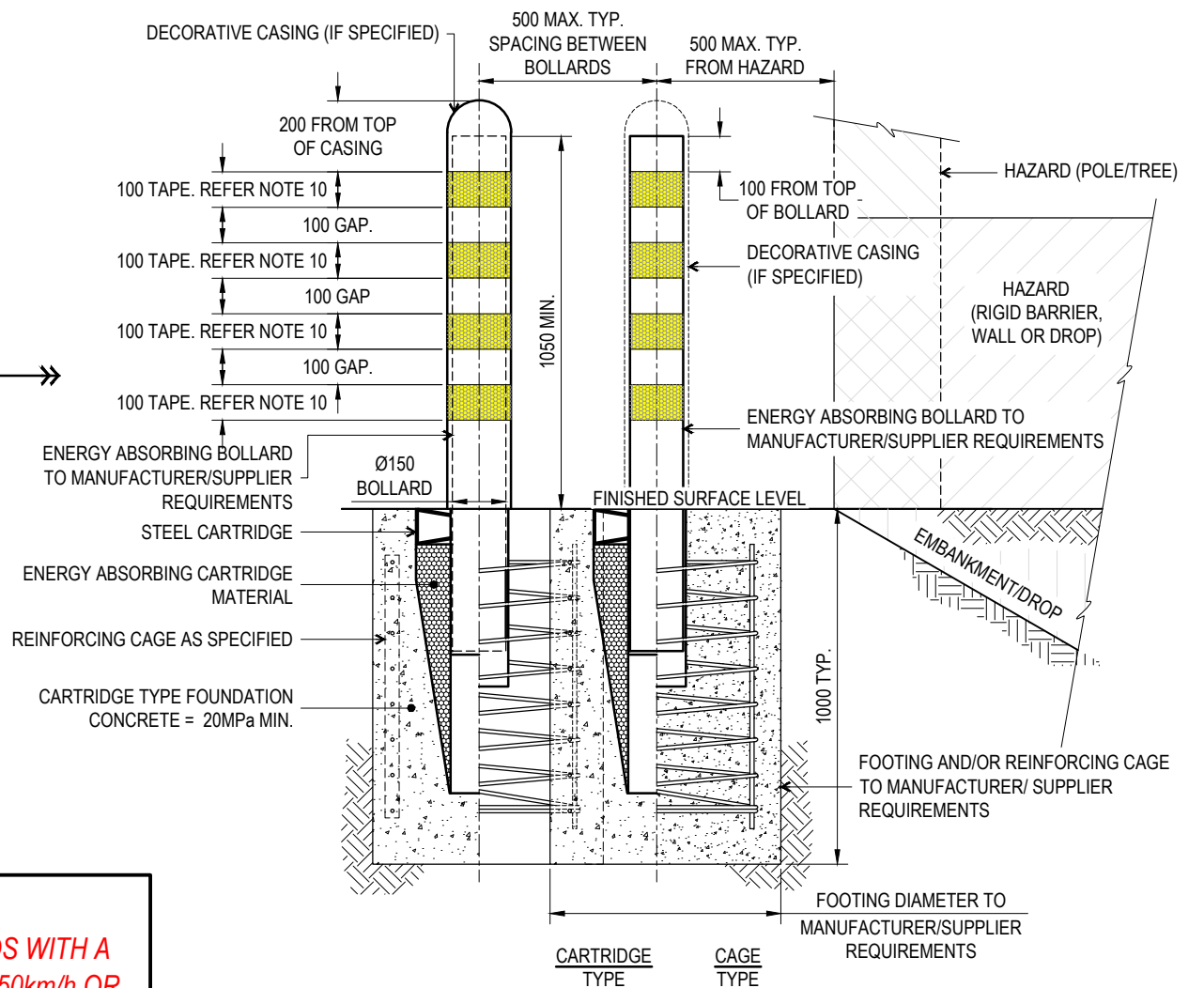
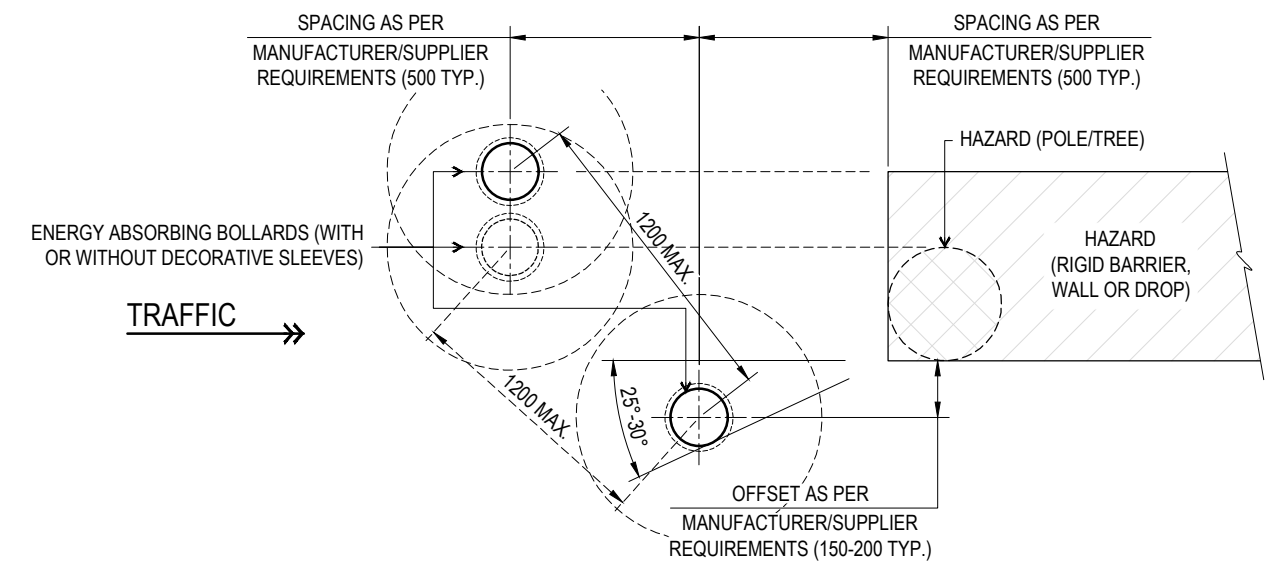
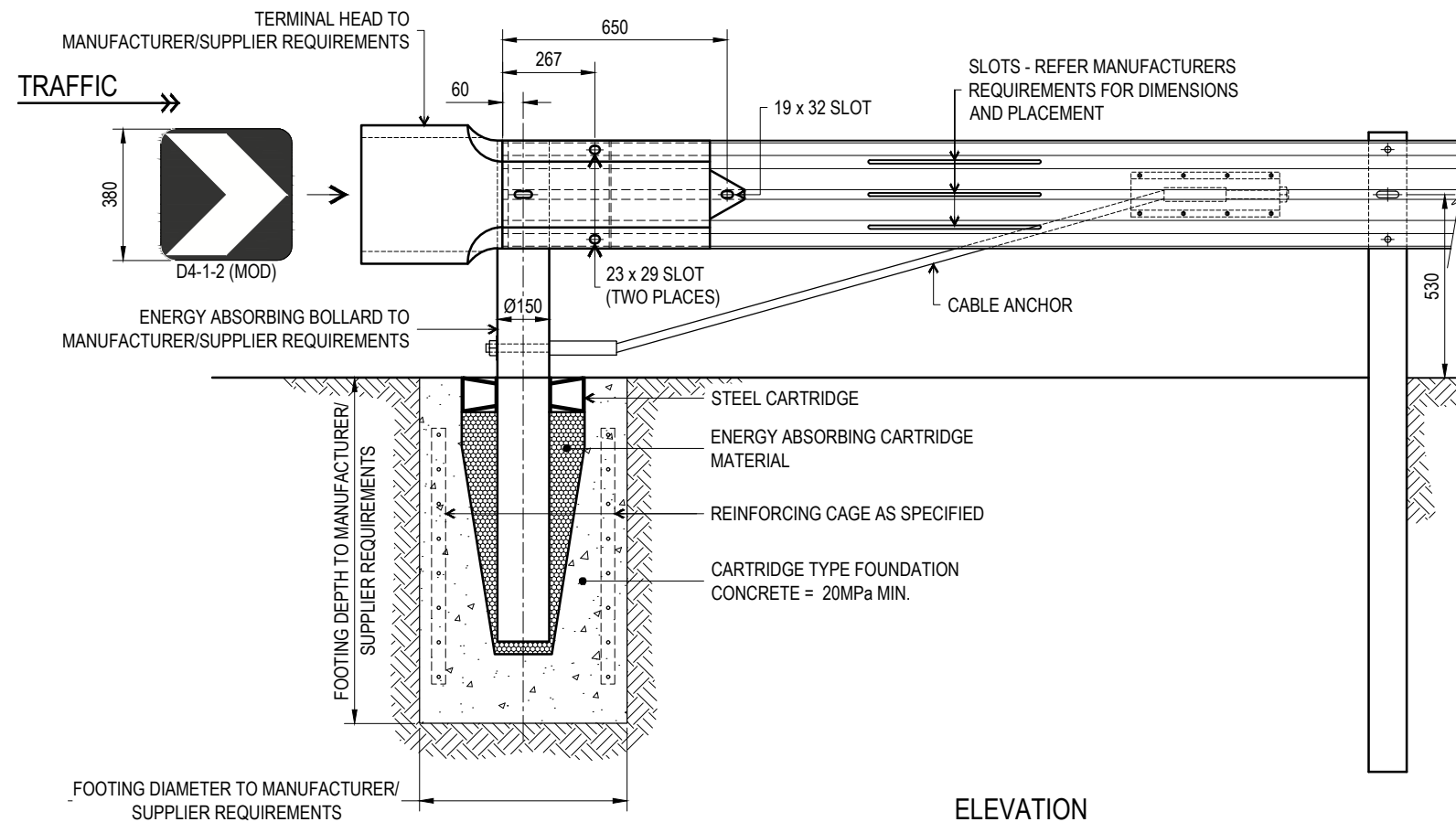


HORSE STILE DETAIL  
SCALE 1:50

### NOTES

1. GALVANISED STEEL GATE POSTS AND BOLLARDS TO BE 110mm DIAMETER, CONCRETE FILLED AND CAPPED.
2. RECYCLED PLASTIC BOLLARDS TO BE 150mm DIAMETER.
3. GATE HINGES TO BE WELDED (NOT BOLTED BRACKETS).
4. GATE LOCKING ASSEMBLY TO BE EITHER HIGH TENSILE CHAIN WELDED TO GATE POST OR A PROTECTIVE BOX SET-UP TO HOUSE THE LOCK.
5. STEP OVER RAILS TO BE FIXED WITH BOLTED BRACKET AND TAC-WELDED NUTS. (TO ALLOW REPLACEMENT OF PLASTIC SLEEVE AS NECESSARY).
6. NO SHARP PROTRUSIONS OR UNPROTECTED RAIL ENDS WITHIN HORSE STILE STRUCTURE.
7. PLASTIC SLEEVE ON STEP-OVER RAILS NEED TO BE FREE MOVING.

					<div>DRAWING AUTHORISED FOR PUBLICATION</div> <div>Inga Condric 2015.06.04 14:41:47+10'00'</div> <div>-----</div> <div>for ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT</div> <div>DESIGN APPROVED</div> <div>C.Wood</div> <div>-----</div> <div>SENIOR CO-ORDINATOR NATURAL ENVIRONMENT ASSET SERVICES/BRISBANE INFRASTRUCTURE</div>	DESIGN	CPO – P&D	DATE	DEC '14		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>			
						DRAWN	CPO – P&D	DATE	DEC '14		<div>ENTRANCE BARRIER – NATURAL AREA – LARGE HORSE STILE – SHEET 2 OF 2</div>	SCALE AS SHOWN		
						CHECKED	BI – FSG – AS	DATE	DEC '14			DWG No.	BSD–7071	
A	ORIGINAL ISSUE		DEC '14	DEC '14		DRAWING FILENAME	BSD-7071 (A) Entrance barrier - Natural area - Large horse stile - Sheet 2 of 2.dwg					ORIGINAL SIZE	A3	
ISSUE	AMENDMENT		DRAWN DATE	CHK'D DATE		APPR'D DATE	ASSOCIATED PLANS	BSD-7071-Sheet 1			REVISION	A		



NOTES:

1. THE GUARDRAIL END TERMINAL SHALL BE (OR APPROVED EQUIVALENT):
  - ENERGY ABSORBING END TERMINAL, DISTRIBUTED BY ROADSIDE SERVICES & SOLUTIONS ((03) 9722 9075, [ops@roadsideservices.net.au](mailto:ops@roadsideservices.net.au), <http://www.roadsideservices.net.au>).
2. HAZARD PROTECTION ENERGY ABSORBING BOLLARD SHALL BE (OR APPROVED EQUIVALENT):
  - ENERGY ABSORBING BOLLARD, DISTRIBUTED BY ROADSIDE SERVICES & SOLUTIONS ((03) 9722 9075, [ops@roadsideservices.net.au](mailto:ops@roadsideservices.net.au), <http://www.roadsideservices.net.au>)
  - OMNI STOP™ SUPER DUTY SECURITY BOLLARD, DISTRIBUTED BY SAFEROADS AUSTRALIA (1800 060 672, <https://www.saferoads.com.au/>)
3. NONFLARED TERMINAL SHALL INCLUDE ALL POST, RAIL AND HARDWARE ITEMS REQUIRED FOR A COMPLETE UNIT. THE END TREATMENT SHALL BE INSTALLED TO MANUFACTURERS AND/OR DISTRIBUTORS REQUIREMENTS.
4. DESIGN TO BE IN ACCORDANCE WITH DESIGN MANUALS AS PROVIDED BY MANUFACTURER/DISTRIBUTOR.
5. FOR URBAN SITUATIONS, BOLLARDS TO BE RATED TO 60km/h. APPROPRIATE DOCUMENTATION SHOWING LEVEL OF TESTING TO BE PROVIDED BEFORE BOLLARD/SYSTEM INSTALLATION.
6. SYSTEM TO BE INSTALLED PARALLEL TO TRAVEL WAY.
7. DELINEATOR ON GUARDRAIL END TREATMENT END BUFFER TO HAVE CLASS 1 RETROREFLECTIVE BACKGROUND WITH BLACK NONREFLECTIVE PATTERN. DELINEATOR TO MATCH AS1742 SIGN D4-1-2 AND BE MODIFIED TO 380 MAX. SQUARE TO FIT END OF GUARDRAIL.
8. ENERGY ABSORBING BOLLARD FOR HAZARD PROTECTION EITHER TO BE LEFT PLAIN (GALVANISED FINISHED), PAINTED OR POWDERCOATED, OR INSTALLED WITH SECURED DECORATIVE COVER AS SUPPLIED BY MANUFACTURER.
9. WHERE BOLLARD INSTALLED WITH PAINTED OR POWDERCOATED FINISH OR WITH DECORATIVE COVER, COLOUR IS TO COMPLEMENT SURROUNDING STREETScape. COLOUR SELECTION IN ACCORDANCE WITH STANDARD BRISBANE CITY COUNCIL CORPORATE COLOUR PALETTE - REFER BSD-1003 FOR DETAILS.
10. ENERGY ABSORBING BOLLARDS FOR HAZARD PROTECTION TO HAVE FOUR (4) 100mm WIDE BANDS OF CLASS 1 YELLOW RETROREFLECTIVE TAPE AT 100mm SPACING.
11. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

**NOTE:**  
ONLY FOR USE ON ROADS WITH A  
POSTED SPEED LIMIT OF 50km/h OR  
LOWER

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

## ENERGY ABSORBING BOLLARD GUARDRAIL END TERMINAL & HAZARD PROTECTION

PUBLISH DATE	
DEC 2023	
SCALE	
NOT TO SCALE	
DRAWING NUMBER	
BSD-7091	
ORIGINAL SIZE	REVISION
A3	D

GENERAL NOTES & SPECIFICATIONS

- ENSURE BOLLARDS & BOUNDARY MARKERS ARE 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 BOLLARDS & POSTS 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.
- BOLLARDS TO BE LOCATED ON PARK BOUNDARY, OR SET BACK 500mm FROM EDGE OF INTERNAL ROAD, SPACE BOLLARDS AT 1500mm APART IN A STRAIGHT LINE, AS DIRECTED OR AS SHOWN ON PLAN.
- FOR BOUNDARY MARKER ONLY – REFER BSD–10003 FOR SUPPLIER OF MOULD FOR THE CAST CAP – ENSURE CAPPING DETAIL IS AS SHOWN ON THIS DRAWING, INCLUDING CURRENT BCC LOGO. REFER BSD–10003 FOR LIST OF MARKER SUPPLIERS. POSITION BOUNDARY MARKERS AT CORNER OF COUNCIL BOUNDARY, AT CHANGES IN BOUNDARY DIRECTIONS. INCLUDE BOLLARDS BETWEEN CORNERS AND/OR CHANGES IN DIRECTION WHERE THE PARK BOUNDARY IS NOT OBVIOUS. (OR AS OTHERWISE SPECIFIED).
- FOR BOUNDARY MARKER ONLY – LETTERING TO BE ARIAL FONT TO THE SIZES SPECIFIED IN CAST CAP DETAIL. ALL LETTERS TO BE SPACED EVENLY.
- FOR HERITAGE BOLLARDS ONLY – DECORATIVE TOP TO CONSIST OF TWO ROUTED REBATES. REBATES TO BE STRAIGHT, PARALLEL TO EACH OTHER & AT RIGHT ANGLES TO POST. ENSURE ALL REBATES ARE CLEANED OF ANY SPLINTERS OR SHARDS.
- 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.
- ALL WELDS TO BE CONTINUOUS FILLET WELDS, GROUND OFF SMOOTH & FLUSH IN ACCORDANCE WITH AS 1554. GRIND SMOOTH EDGES & WELDS PRIOR TO HOT DIPPED GALVANISING OR APPLIED FINISHES.

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 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.

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–7093,  
BSD–7094 &  
BSD–7099 FOR  
ASSOCIATED DETAILS.

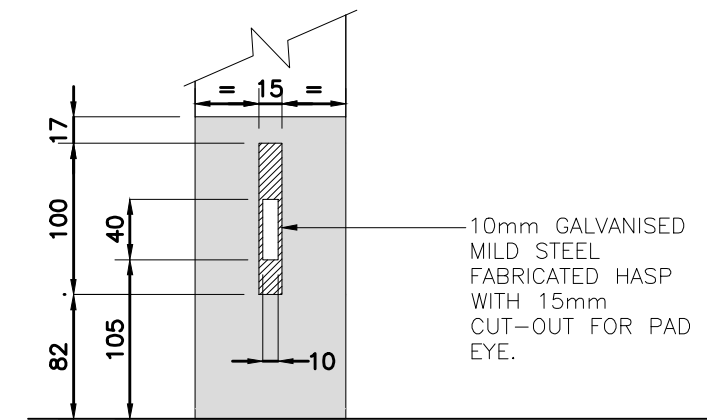
					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 ----- MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.Q: 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING		
					DESIGN APPROVED LAUREN TEMPLEMAN SIGNATURE ON ORIGINAL DATED 31/08/04 -----	DRAWN	CPO - P&D	DATE	OCT '13		PARK BOLLARDS AND BOUNDARY MARKERS — GENERAL NOTES	SCALE AS SHOWN	
						CHECKED	UMD - E&P & IMB	DATE	OCT '13			Dwg No. <b>BSD-7092</b>	
A	Drawing Converted From UMS Series April 2014	APR '14	APR '14	APR '14	PRICIPAL PROGRAM OFFICER PARKS	DRAWING FILENAME	BSD-7092 (A) Park bollards and boundary markers - General notes.dwg						ORIGINAL SIZE
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES NOTES ON UMS-721, 722, 723, & 724				A3	A	



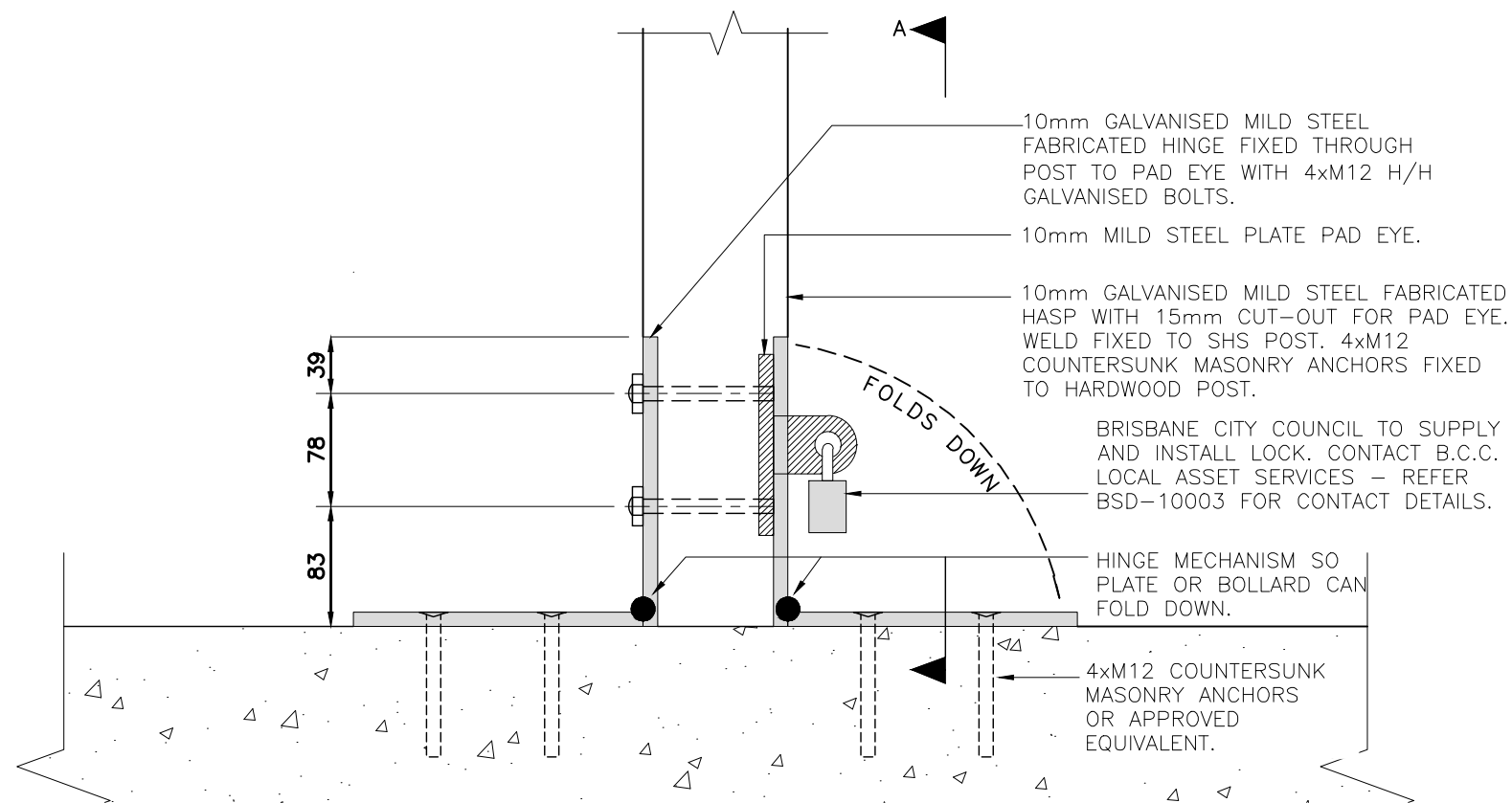




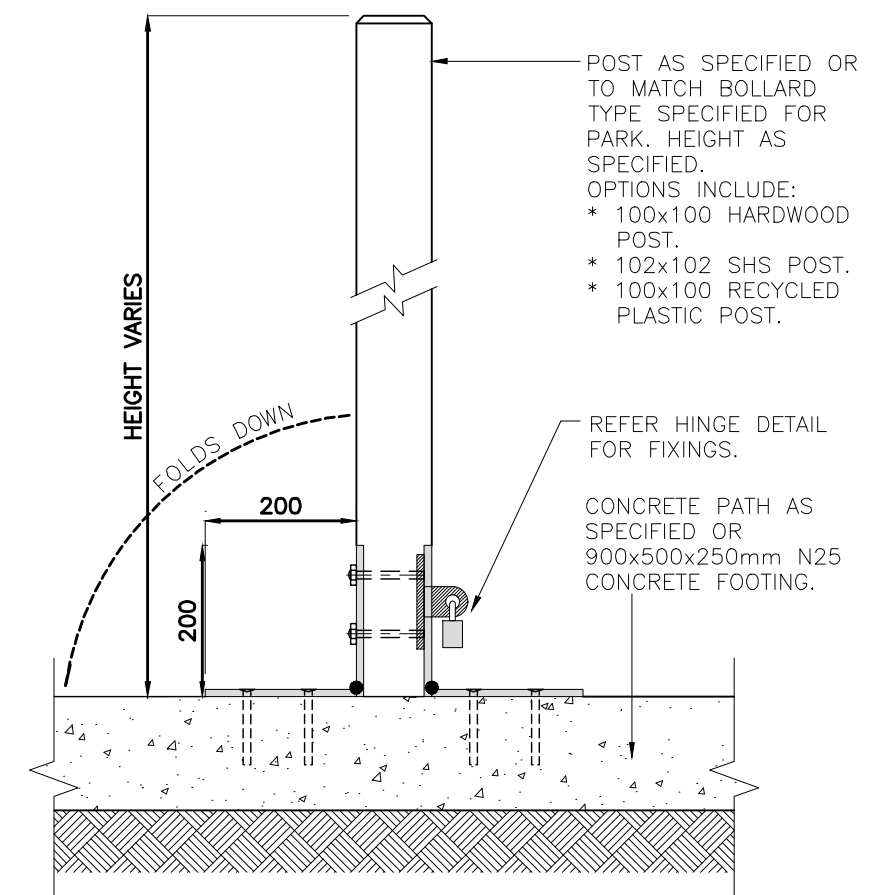
REFER TO BSD-7092  
FOR ASSOCIATED  
SPECIFICATION NOTES.




REMOVABLE BOLLARD – SECTION  
A-A – PAD EYE DETAIL  
SCALE: 1:5



REMOVABLE BOLLARD – HINGE DETAIL  
SCALE: 1:5



REMOVABLE BOLLARD – SECTION  
SCALE: 1:10

						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		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>			
						DRAWN	CPO - P&D	DATE	OCT '13						
						CHECKED	UMD - E&P & IMB	DATE	OCT '13						
						DRAWING FILENAME	BSD-7094 (A) Bollard - Parks and natural areas - Removable.dwg								
						ASSOCIATED PLANS	SUPERSEDES UMS-724								
A	Drawing Converted From UMS Series April 2014				APR '14	APR '14	APR '14						<b>BOLLARD – PARKS AND NATURAL AREAS – REMOVABLE</b>		
ISSUE	AMENDMENT				DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS							
										SCALE AS SHOWN					
										DWG No. <b>BSD-7094</b>					
										ORIGINAL SIZE A3		REVISION A			

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

- ## NOTES

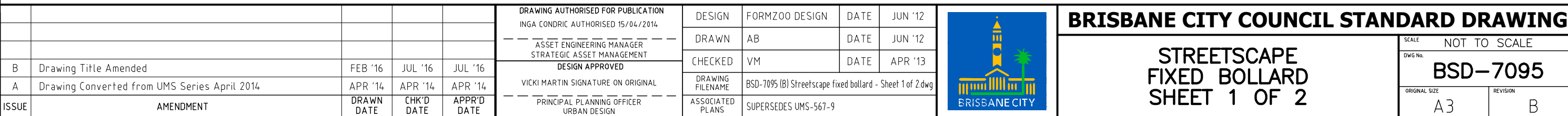
- ## MATERIAL

1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: 600 GRIT POLISH /  
GARNET BLASTED

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL \_\_\_\_\_ DATE: 28/ 6 / 12



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. AS 1742.10– 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES: 'PEDESTRIAN CONTROL AND PROTECTION'

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.

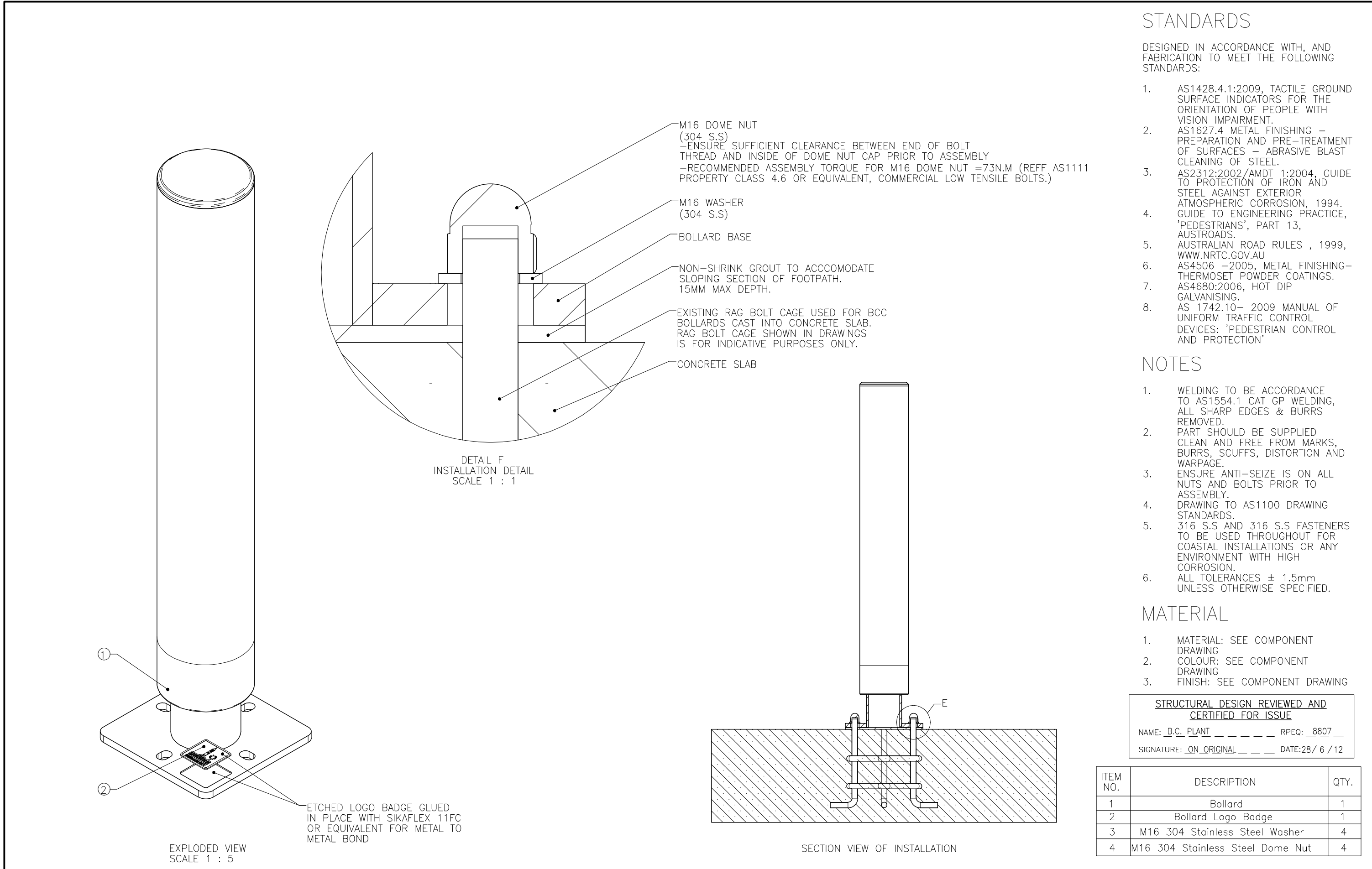
MATERIAL


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

ITEM NO.	DESCRIPTION	QTY.
1	Bollard	1
2	Bollard Logo Badge	1
3	M16 304 Stainless Steel Washer	4
4	M16 304 Stainless Steel Dome Nut	4



					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13		
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7095 (B) Streetscape fixed bollard - Assembly and installation - Sheet 2 of 2.dwg				
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-567-3			<b>STREETSCAPE – FIXED BOLLARD ASSEMBLY AND INSTALLATION SHEET 2 OF 2</b>	SCALE DWG No. NOT TO SCALE <b>BSD–7095</b>
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14							
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE							ORIGINAL SIZE A3

STANDARDS

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

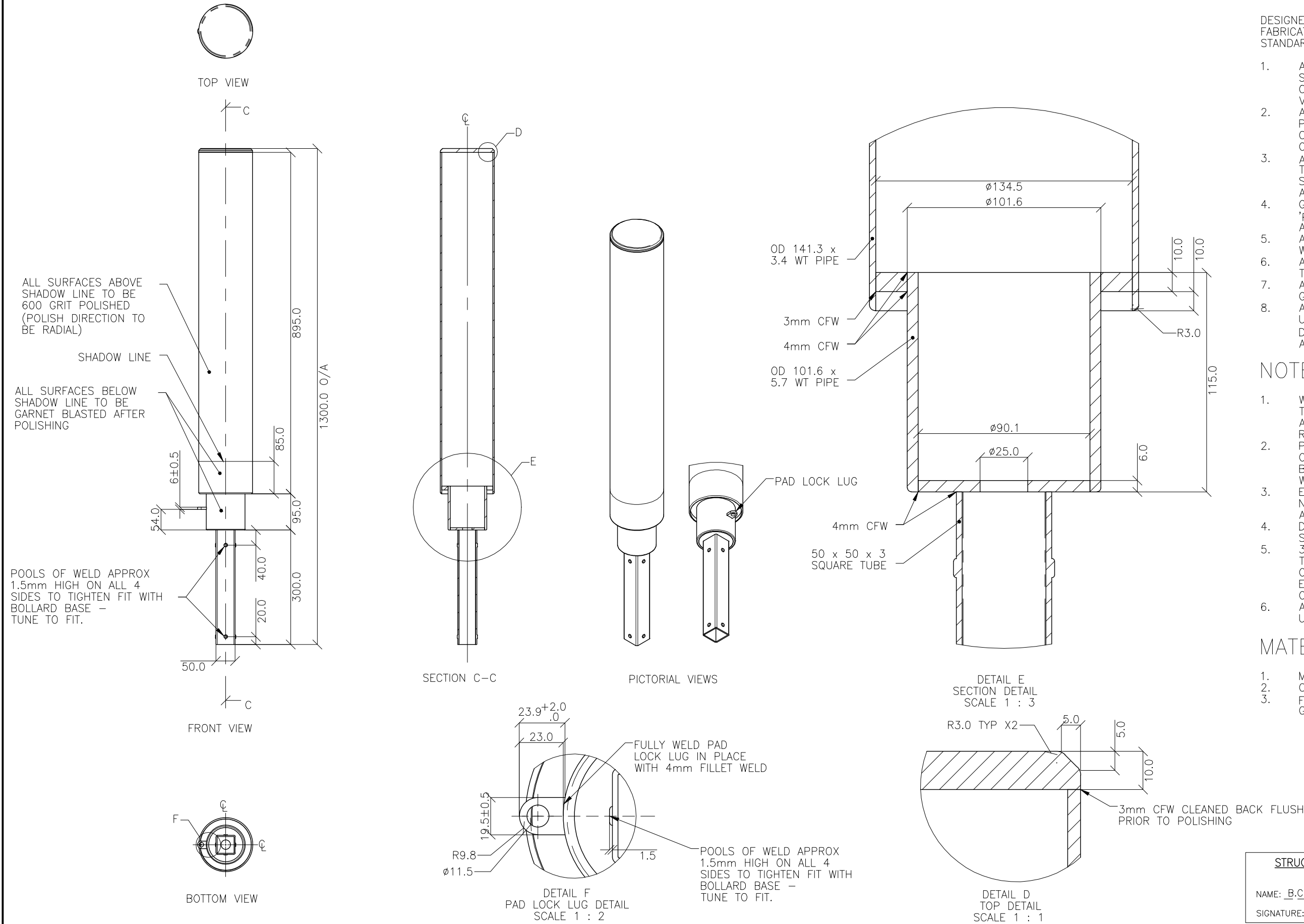
- 1. AS1428.4.1:2009, TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- 2. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
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NOTES


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- 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

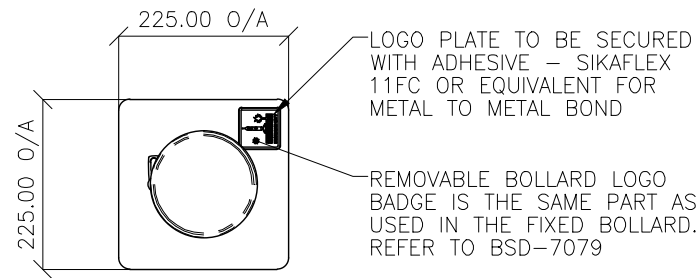
- 1. MATERIAL: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: 600 GRIT POLISH / GARNET BLASTED



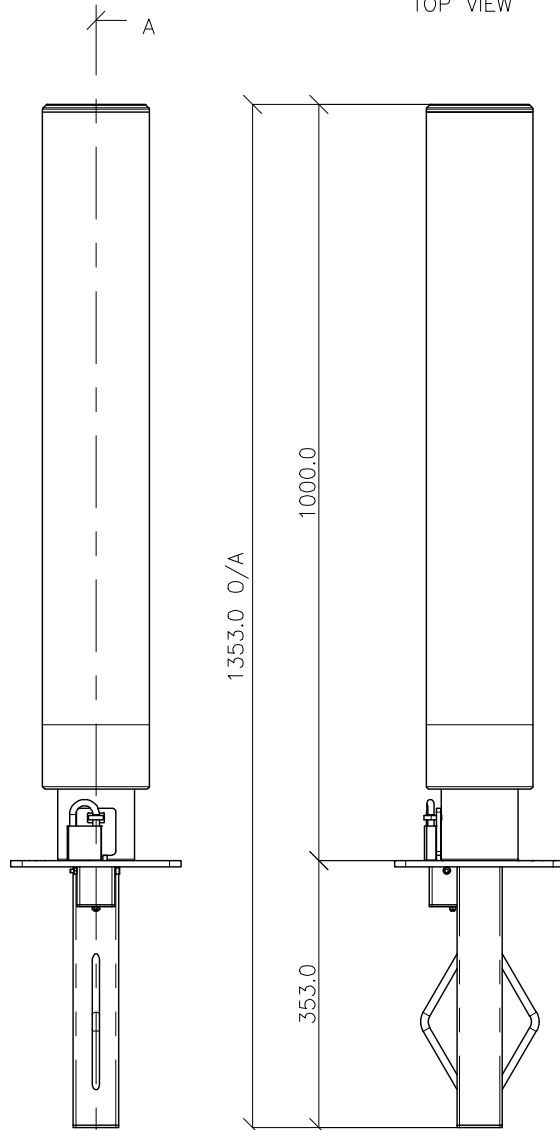
STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE	
NAME: B.C. PLANT	RPEQ: 8807
SIGNATURE: ON ORIGINAL	DATE: 28/ 6 / 12

DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIE AUTHORISED 15/04/2014				DESIGN	FORMZOO DESIGN	DATE	JUN '12
ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT				DRAWN	AB	DATE	JUN '12
DESIGN APPROVED				CHECKED	VM	DATE	APR '13
VICKI MARTIN SIGNATURE ON ORIGINAL				DRAWING FILENAME	BSD-7096 (B) Streetscape removable bollard - Sheet 1 of 6.dwg		
PRINCIPAL PLANNING OFFICER URBAN DESIGN				ASSOCIATED PLANS	SUPERSEDES UMS-567-1		
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			
BRISBANE CITY COUNCIL STANDARD DRAWING						STREETScape REMOVABLE BOLLARD SHEET 1 OF 6	
						SCALE DWG No. NOT TO SCALE	
						ORIGINAL SIZE A3	REVISION B
						BSD-7096	

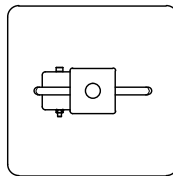




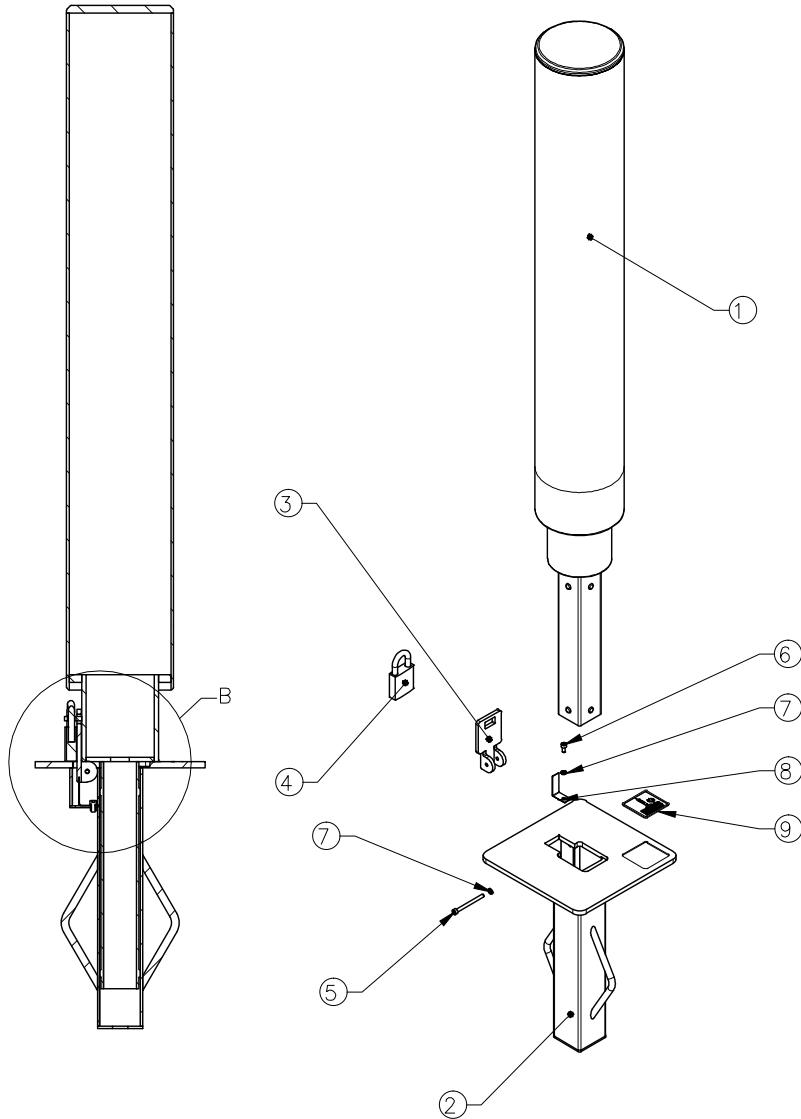
TOP VIEW



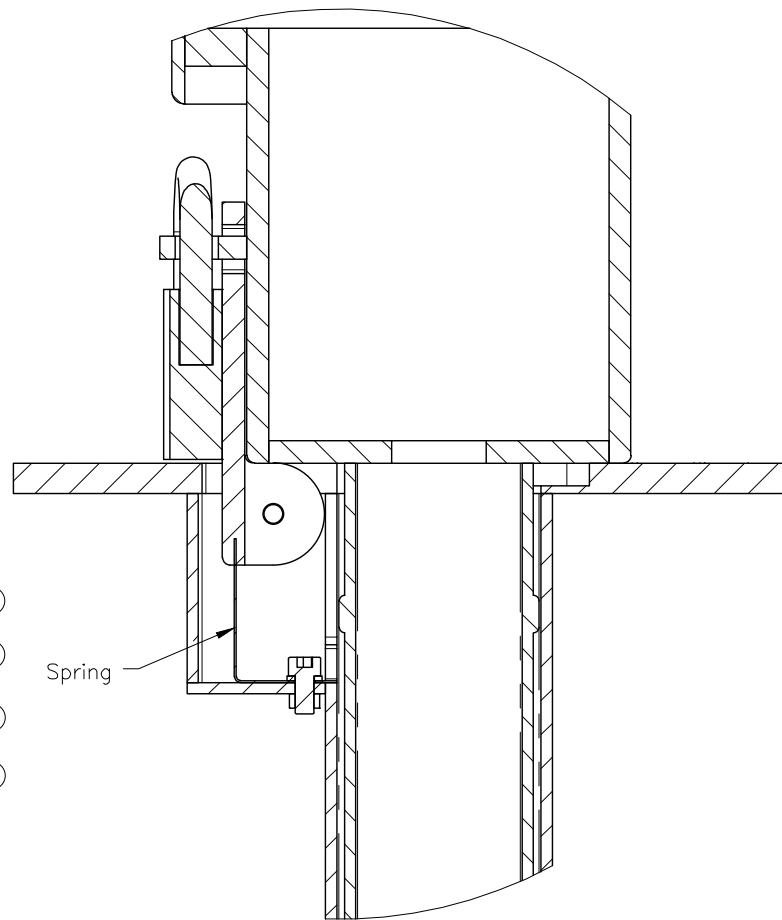
FRONT VIEW



BOTTOM VIEW



EXPLODED VIEW  
SCALE 1 : 12



DETAIL B  
SCALE 1 : 2

ITEM NO.	DESCRIPTION	QTY.
1	Removable Bollard	1
2	Removable Bollard Base	1
3	Removable Bollard Cover	1
4	BCC Padlock	1
5	M5 x 60mm 304 Stainless Steel Cap Screw	1
6	M5 x 10mm 304 Staniless Steel Cap Screw	1
7	M5 304 Stainless Steel Spring Washer	2
8	Removable Bollard Spring	1
9	Bollard Logo Badge	1

## STANDARDS

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

- AS1428.4.1:2009, TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
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- AS 1742.10– 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES: 'PEDESTRIAN CONTROL AND PROTECTION'

## NOTES

- WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
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## MATERIAL

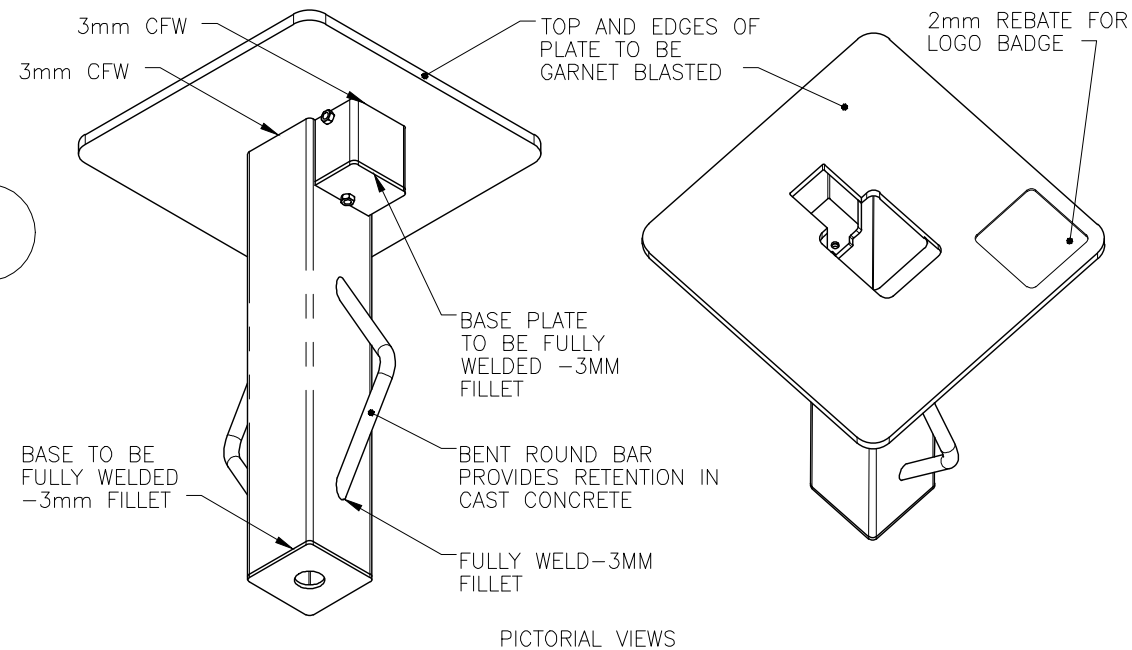
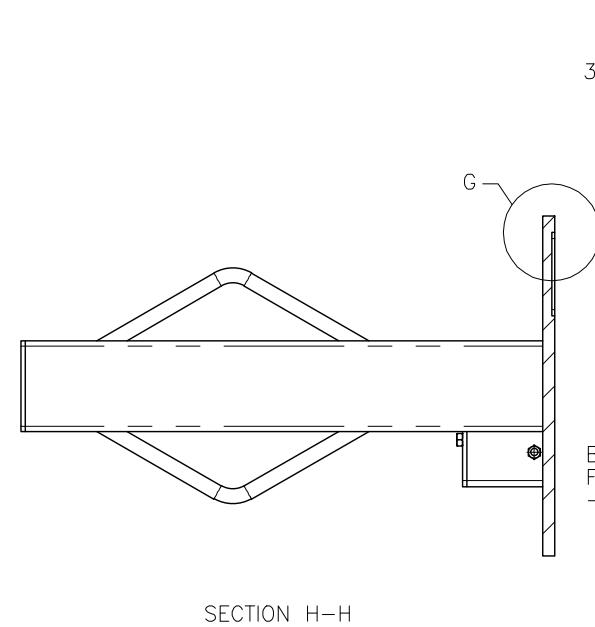
- MATERIAL: SEE COMPONENT DRAWING
- COLOUR: SEE COMPONENT DRAWING
- FINISH: SEE COMPONENT DRAWING

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	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE NOT TO SCALE		
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13		DWG No. <b>BSD-7096</b>		
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7096 (B) Streetscape removable bollard - Assembly - Sheet 2 of 6.dwg				ORIGINAL SIZE A3		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		ASSOCIATED PLANS	SUPERSEDES UMS-567-4				REVISION B		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14									
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN								

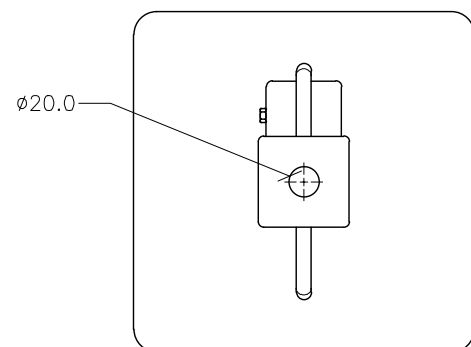
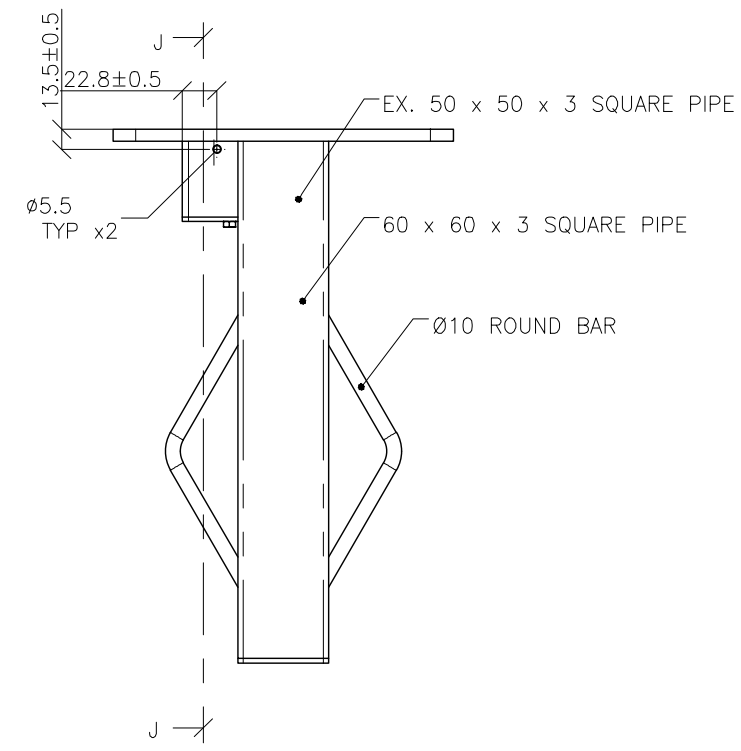
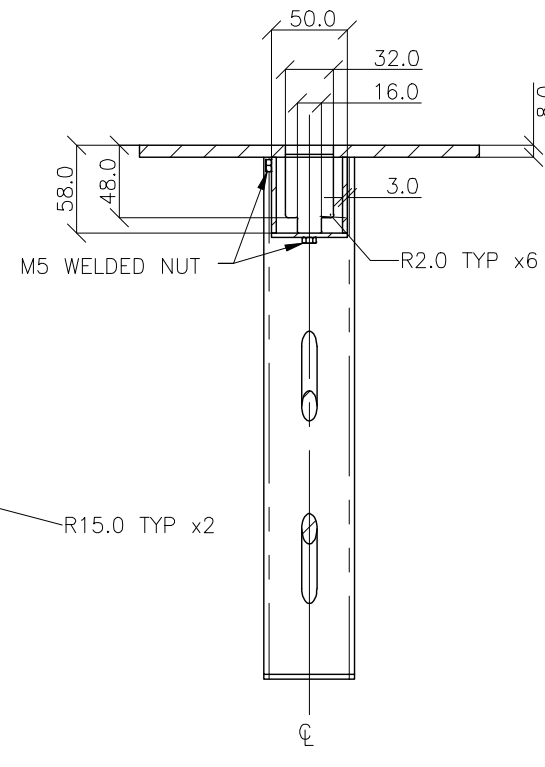
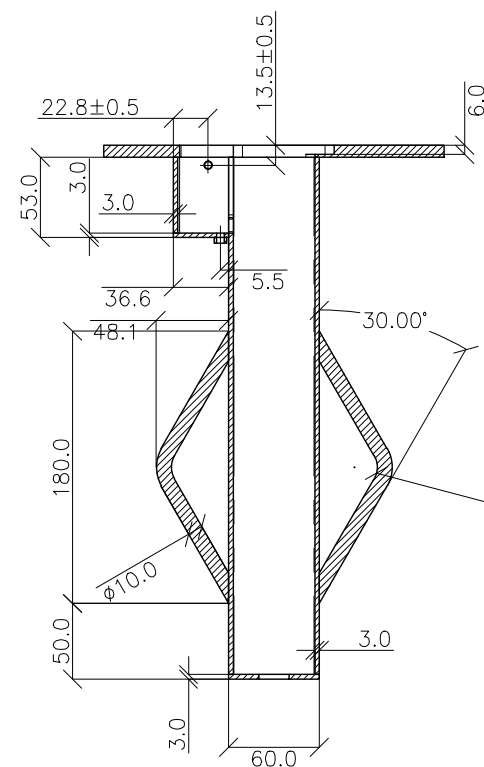


DESIGNED IN ACCORDANCE WITH, AND  
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1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: GARNET BLASTED



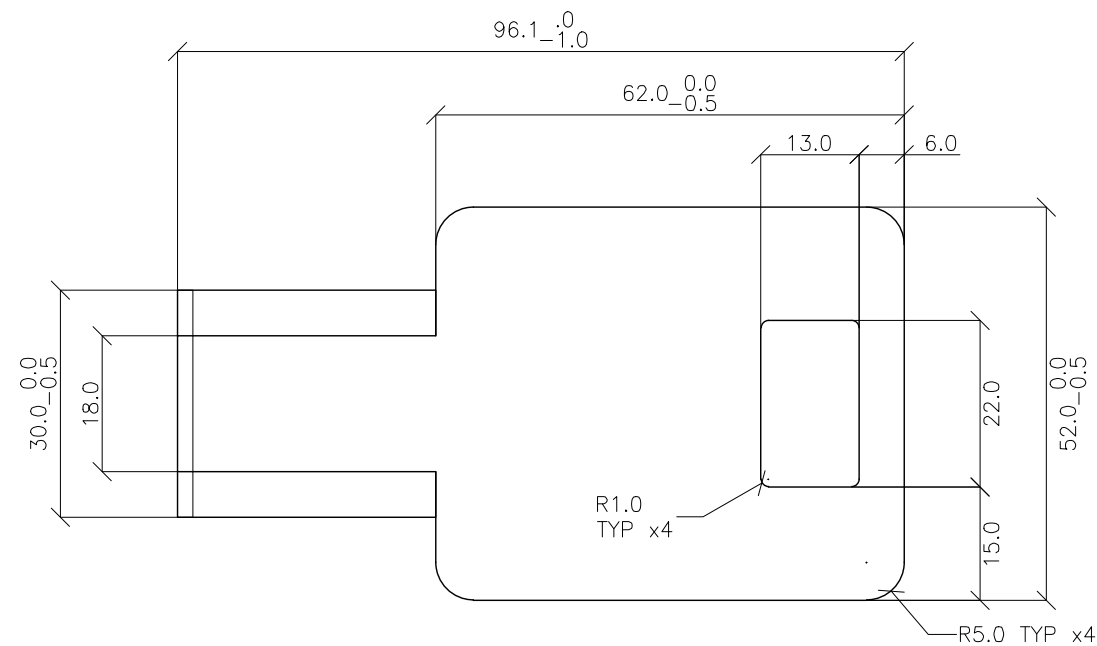
DETAIL G  
LOGO BADGE REBATE DETAIL  
SCALE 1 : 2

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIĆ AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE NOT TO SCALE		
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13		DWG No. BSD-7096		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7096 (B) Streetscape removable bollard - Base - Sheet 3 of 6.dwg				ORIGINAL SIZE A3		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-567-6				REVISION B		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE									

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

- 
- 4mm CFW AND DRESS BACK FLUSH PRIOR TO GARNET BLASTING
- REMOVE SHARP EDGES

REMOVE SHARP  
EDGES



Front view of a mechanical part. The part features a central circular hole with a diameter of  $\phi 5.5 \pm 0.2$ . The top edge has a radius of  $R2.0$  TYP x2. The left side has a vertical dimension of  $13.5 \pm 0.5$  and a bottom radius of  $R13.5 \pm 0.5$ . The right side has a horizontal dimension of  $6.0$ . The label "FRONT VIEW" is positioned below the part.


Diagram of a continuous beam with two equal spans of 6.0 m each. The beam is supported by three vertical columns. The left span is labeled 6.0 and the right span is labeled 6.0.

The diagram illustrates a two-stage process flow. Stage 1, on the left, consists of two parallel horizontal paths. Each path starts with a rectangular box, followed by a small square box. Stage 2, on the right, is a large rounded rectangle. Inside this rectangle, on the right side, is a smaller rounded rectangle. The paths from Stage 1 lead into Stage 2, suggesting a transition or continuation of the process.

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT \_\_\_\_\_ RPEQ: 8807 \_\_\_\_\_

SIGNATURE: ON ORIGINAL \_\_\_\_\_ DATE: 28/ 6 / 12

					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014</div> <div>--- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED</div> <div>VICKI MARTIN SIGNATURE ON ORIGINAL</div> <div>--- PRINCIPAL PLANNING OFFICER URBAN DESIGN</div>	DESIGN	FORM200 DESIGN	DATE	JUN '12		<div>BRISBANE CITY COUNCIL STANDARD DRAWING</div> <div>STREETSCAPE REMOVABLE BOLLARD – COVER SHEET 4 OF 6</div>			SCALE NOT TO SCALE		
						DRAWN	AB	DATE	JUN '12					DWG No.	BSD–7096	
						CHECKED	VM	DATE	APR '13							
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		DRAWING FILENAME	BSD-7096-4.dwg									
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-567-7									
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE					ORIGINAL SIZE			REVISION				
									A3			B				





STANDARDS

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

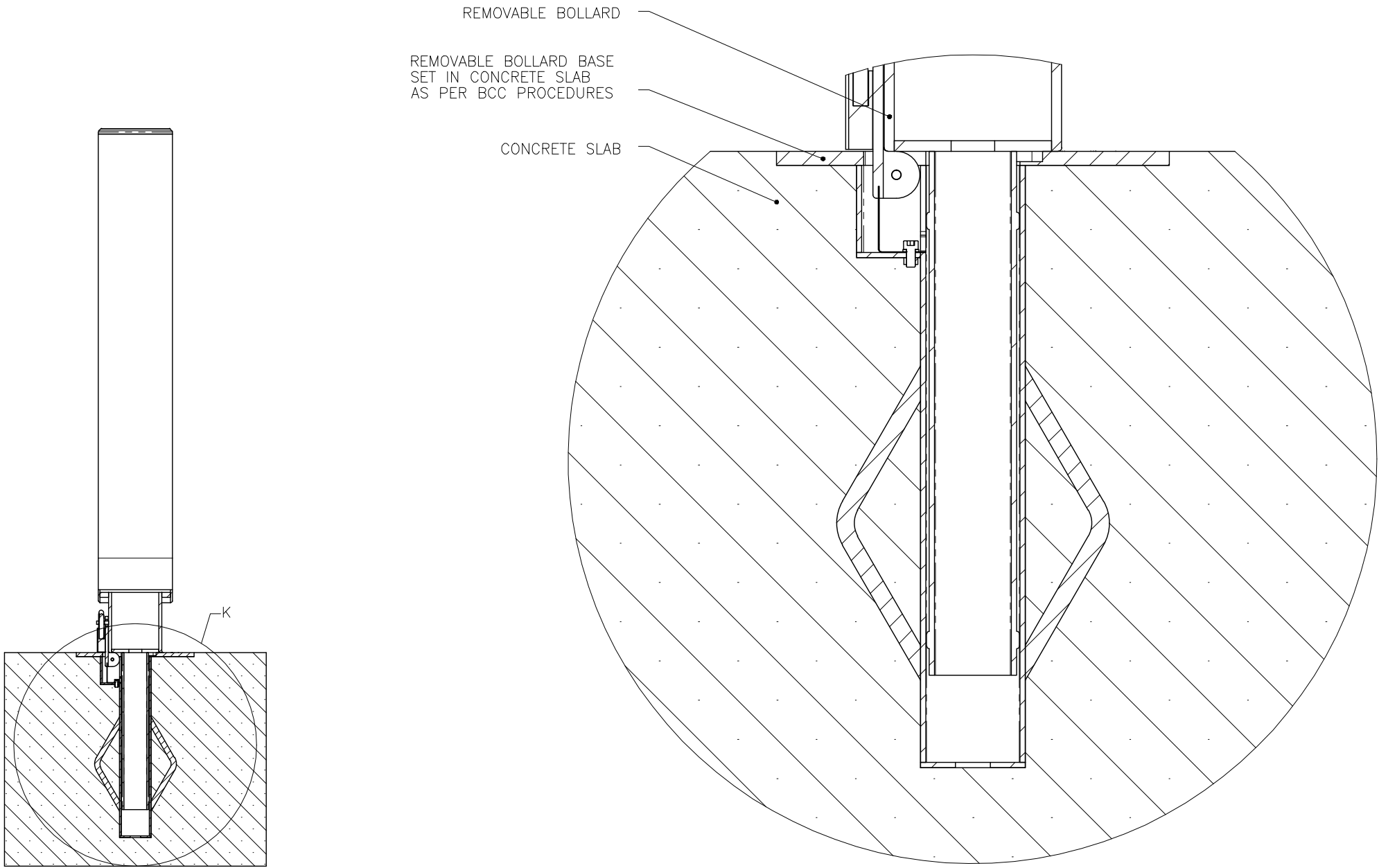
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MATERIAL

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



SECTION VIEW OF INSTALLATION

DETAIL K  
INSTALLATION DETAIL  
SCALE 1 : 3

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL DATE: 28/ 6 /12

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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. AS 1742.10– 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES: 'PEDESTRIAN CONTROL AND PROTECTION'

NOTES

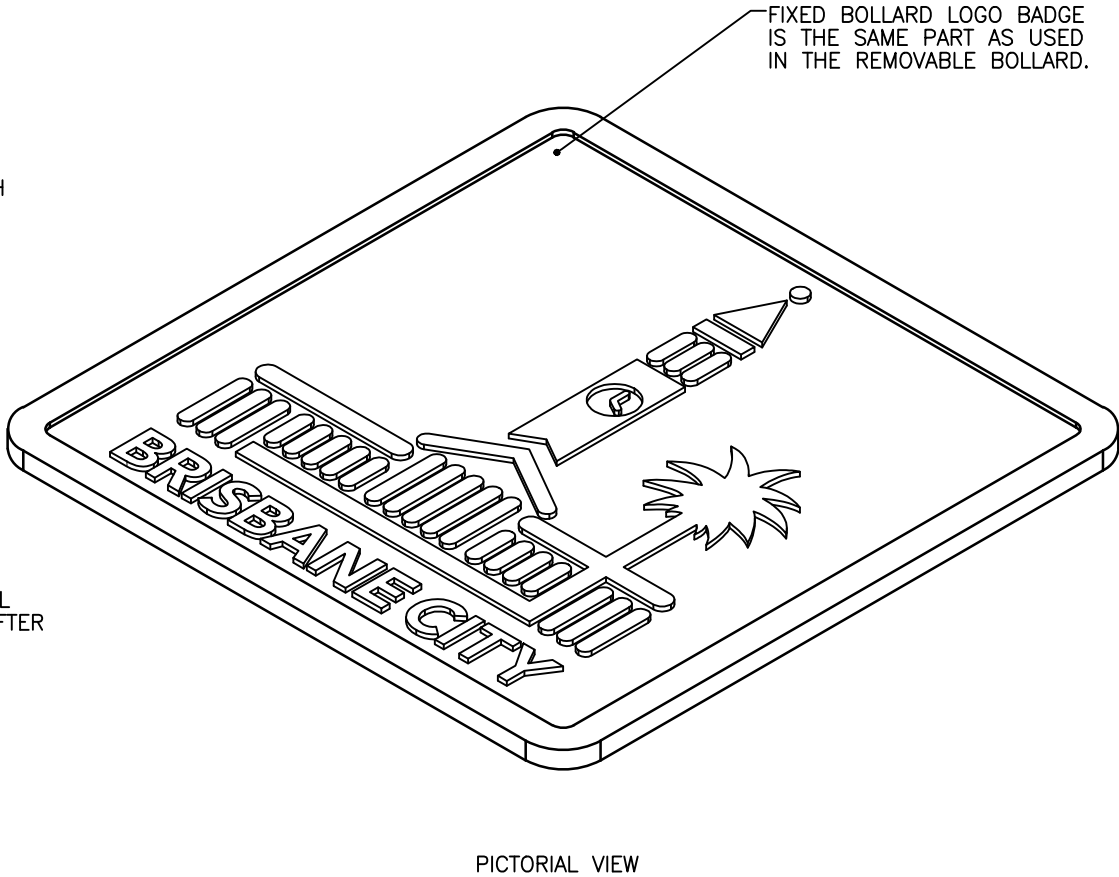
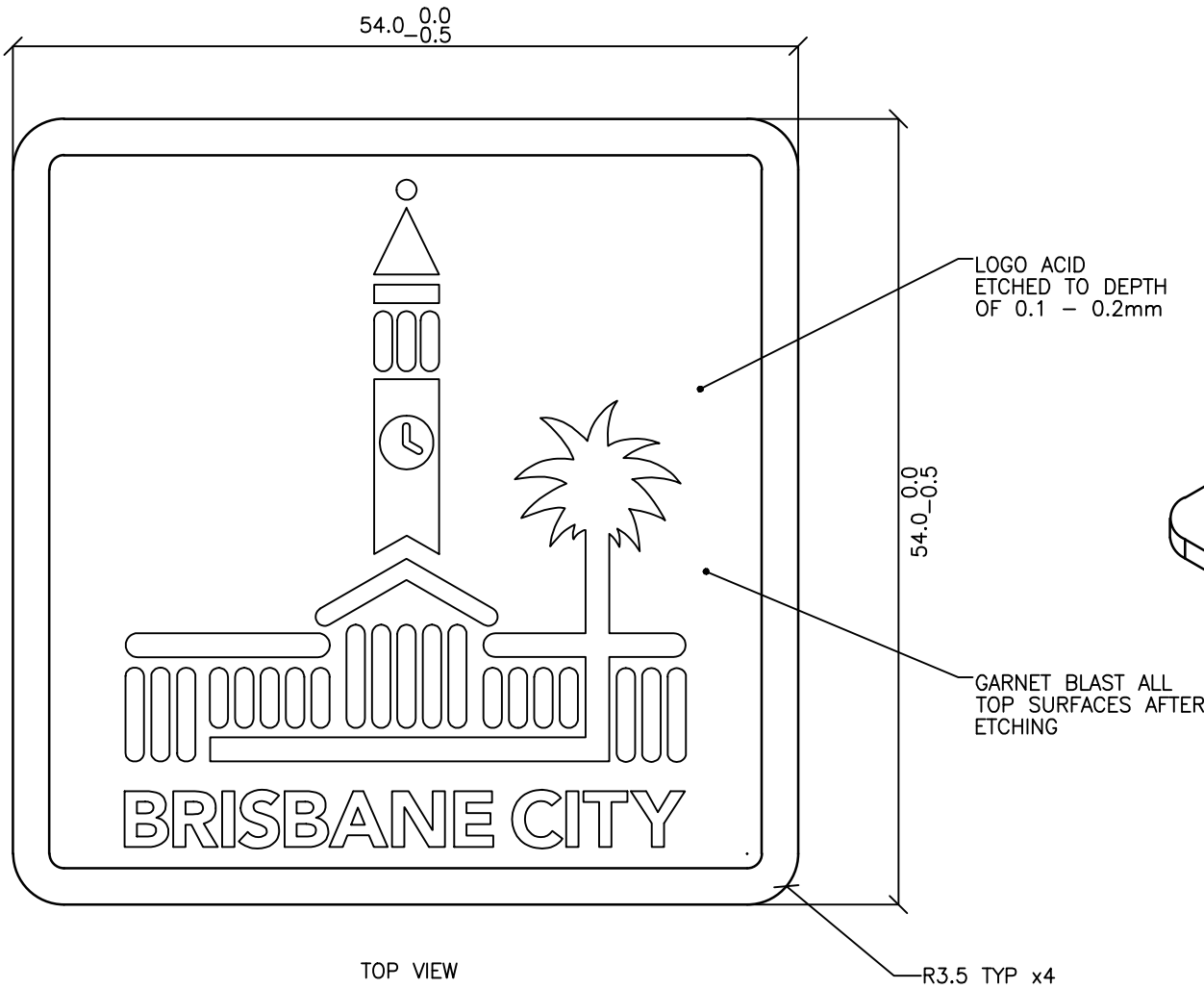
- 1. WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- 2. PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
- 3. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 4. DRAWING TO AS1100 DRAWING STANDARDS.
- 5. 316 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

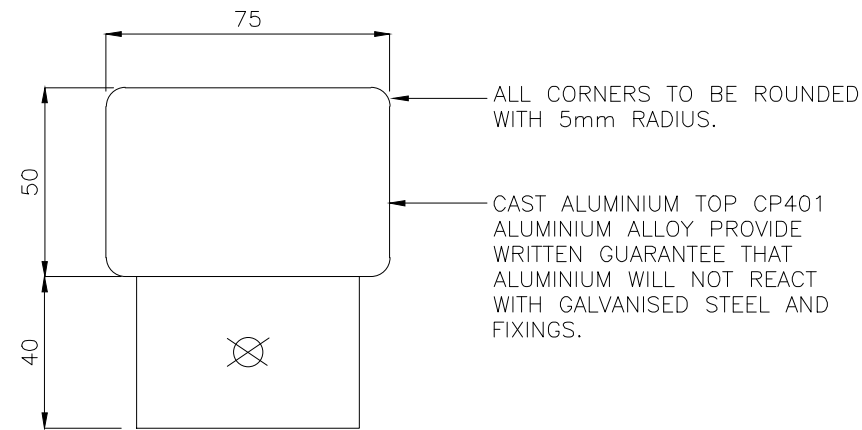
- 1. MATERIAL: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: GARNET BLASTED

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

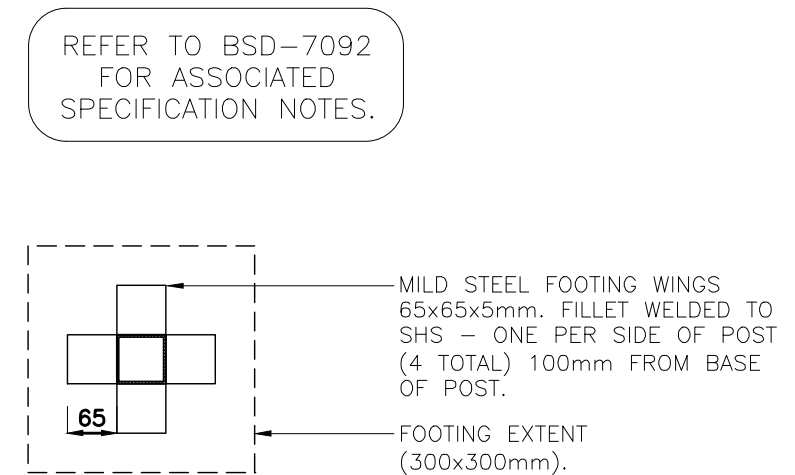
NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE:28/ 6 /12



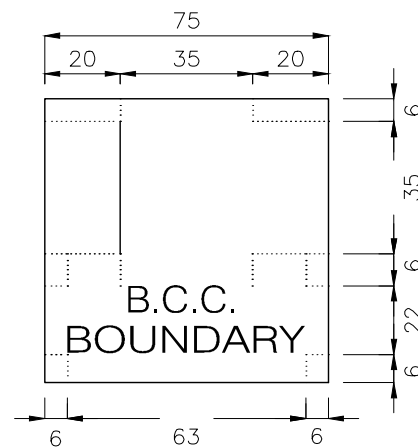
					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
						DRAWN	AB	DATE	JUN '12		SCALE NOT TO SCALE		
C	Logo Acid Etch Depth Amended	MAY '17	MAY '17	MAY '17	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	CHECKED	VM	DATE	APR '13		DWG No. BSD-7097		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	DRAWING FILENAME	BSD-7097 (B) Streetscape - fixed and removable bollard - bollard logo badge.dwg				ORIGINAL SIZE A3		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL	ASSOCIATED PLANS	SUPERSEDES UMS-567-2				REVISION C		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN						STREETSCAPE FIXED AND REMOVABLE BOLLARD BOLLARD LOGO BADGE		



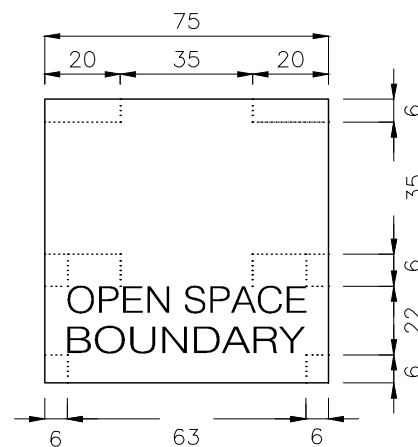
BOUNDARY MARKER – CAST CAP DETAIL – ELEVATION VIEW  
SCALE: 1:2



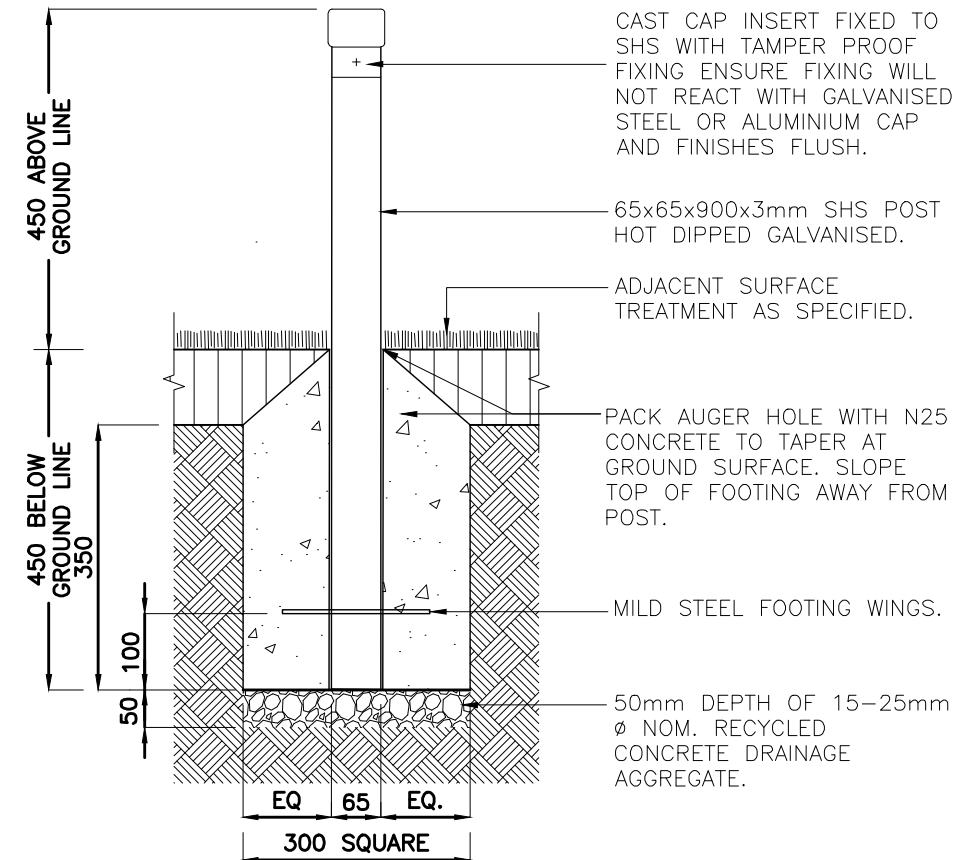
BOUNDARY MARKER – FOOTING – PLAN VIEW  
SCALE: 1:10



B.C.C. NATURAL AREA BOUNDARY MARKER –  
CAST CAP DETAIL – PLAN  
SCALE: 1:2

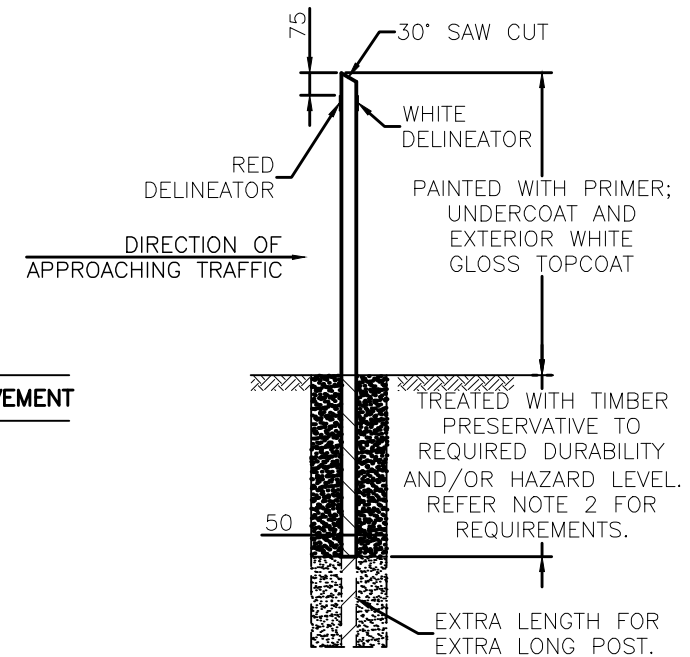
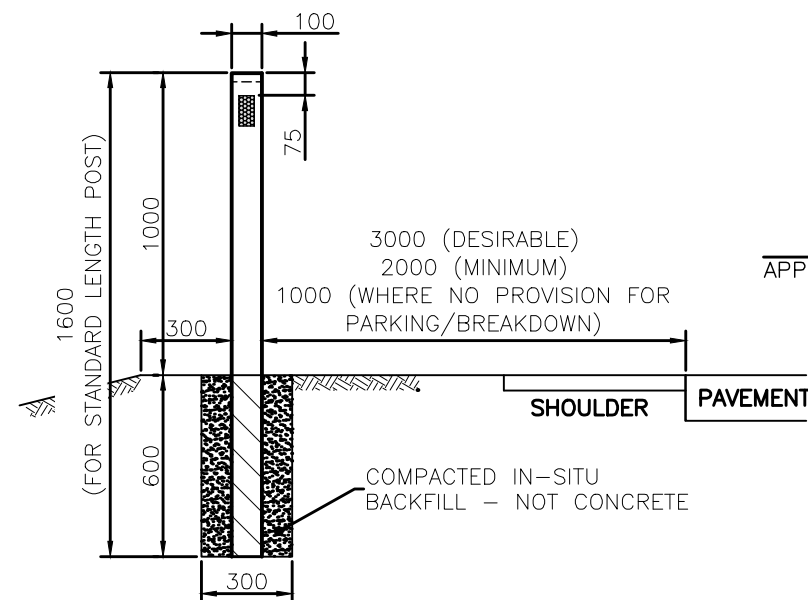
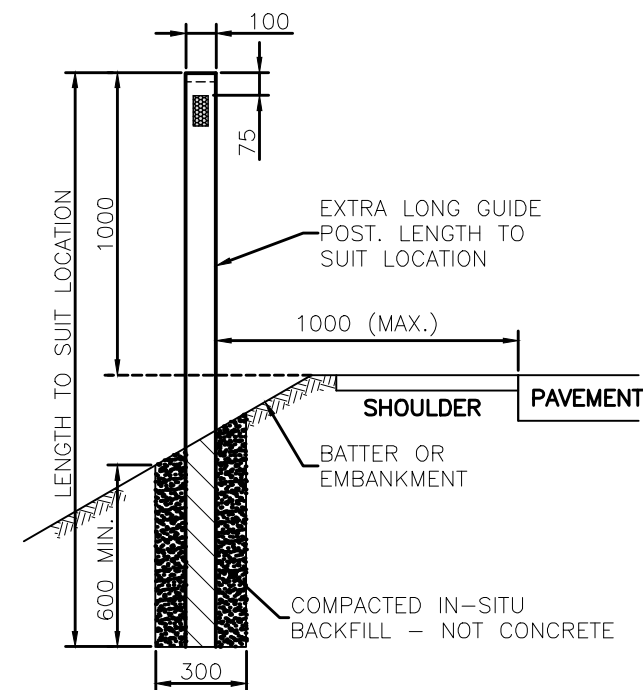


OPEN SPACE NATURAL AREA BOUNDARY MARKER –  
CAST CAP DETAIL – PLAN  
SCALE: 1:2



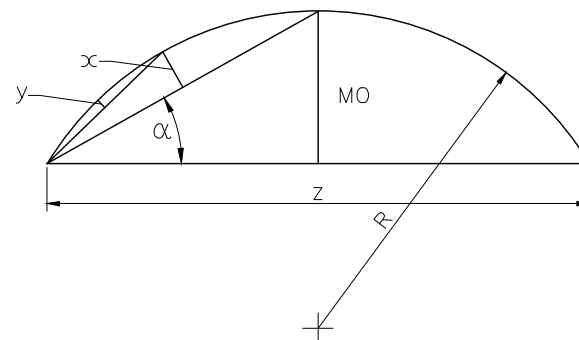
BOUNDARY MARKER – SECTION  
SCALE: 1:10

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NOTES:

1. ALTERNATIVE PRODUCTS WILL BE CONSIDERED FOR APPROVAL BY MANAGER CITY ASSETS UPON RECEIPT OF FORMAL APPLICATION.
2. ALL POST MATERIALS, INCLUDING TIMBER PRESERVATION, ARE TO COMPLY WITH QUEENSLAND DEPARTMENT OF TRANSPORT AND MAIN ROADS (QDTMR) SPECIFICATION MRTS 11.14.
3. WHERE GUIDE POSTS ARE INSTALLED ON FLOODWAYS, POST SHALL BE TUBULAR STEEL AT MAXIMUM 25m SPACING IN PAIRS.
4. POSTS TO BE ERECTED IN PAIRS, ONE EACH SIDE OF THE ROAD FORMATION WHERE KERB AND CHANNEL DO NOT EXIST.
5. DELINEATORS ARE TO COMPLY WITH QDTMR SPECIFICATION MRTS 11.14 AND ARE TO BE LOCATED WITH RED FACING TRAFFIC ON THE LEFT SIDE AND WHITE FACING TRAFFIC ON RIGHT SIDE.
6. GUIDE POST SHALL BE POSITIONED:
  - ON STRAIGHTS OR CURVES AS PER TABLE PROVIDED;
  - SO THAT ONE PAIR IS ALWAYS VISIBLE ON EACH SIDE OF THE TOP OF THE CREST ON EACH SIDE OF THE ROAD;
  - ADJACENT TO ANY CHANGE OF ROAD ALIGNMENT OR HAZARD (eg. TAPERS, BRIDGES, CULVERTS).
7. WHERE POSTS ARE PLACED OVER CRESTS, THE SPACING SHALL BE ARRANGED SUCH THAT A MINIMUM OF 2 PAIRS ARE VISIBLE AT ALL TIMES FROM FROM A DRIVER'S EYE HEIGHT OF 1.15m.
8. DELINEATORS TO BE FIXED TO GUARDRAIL AT EACH END POST AND AT A MAXIMUM SPACING OF 16m. CLOSER SPACING AS PER TABLE ABOVE MAY BE REQUIRED IN WHICH CASE DELINEATORS ARE TO BE PLACED ON THE NEAREST POST.
9. SPACING AND INSTALLATION TO CONFORM TO REQUIREMENTS, OF THE QUEENSLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
10. DIMENSIONS IN MILLIMETRES (UNO).



1.  $R = \frac{Z}{2} / \sin 2\alpha$  ;  $\alpha = \tan^{-1} 2\left(\frac{MO}{Z}\right)$
2.  $x = \frac{MO}{4}$  ;  $y = \frac{MO}{16}$

### MID ORDINATE DIAGRAM

1. USED FOR OBTAINING THE RADIUS OF A CURVE AFTER MEASURING MO & Z.
2. USED FOR SETTING OUT THE CURVE AFTER OBTAINING THE RADIUS

RADIUS (m)	SPACING (m)	
	OUTSIDE OF CURVE	INSIDE OF CURVE
<100	6	12
100-199	10	20
200-299	15	30
300-399	20	40
400-599	30	60
600-799	40	60
800-1199	60	60
1200-2000	90	90
>2000 (incl. straights)	150	150

## SPACING

## SPACING FOR SPECIAL CASES

FLOOD WAYS:- 25m FOR FLOOD WAYS < 120m LONG.  
50m FOR FLOOD WAYS > 120m LONG.

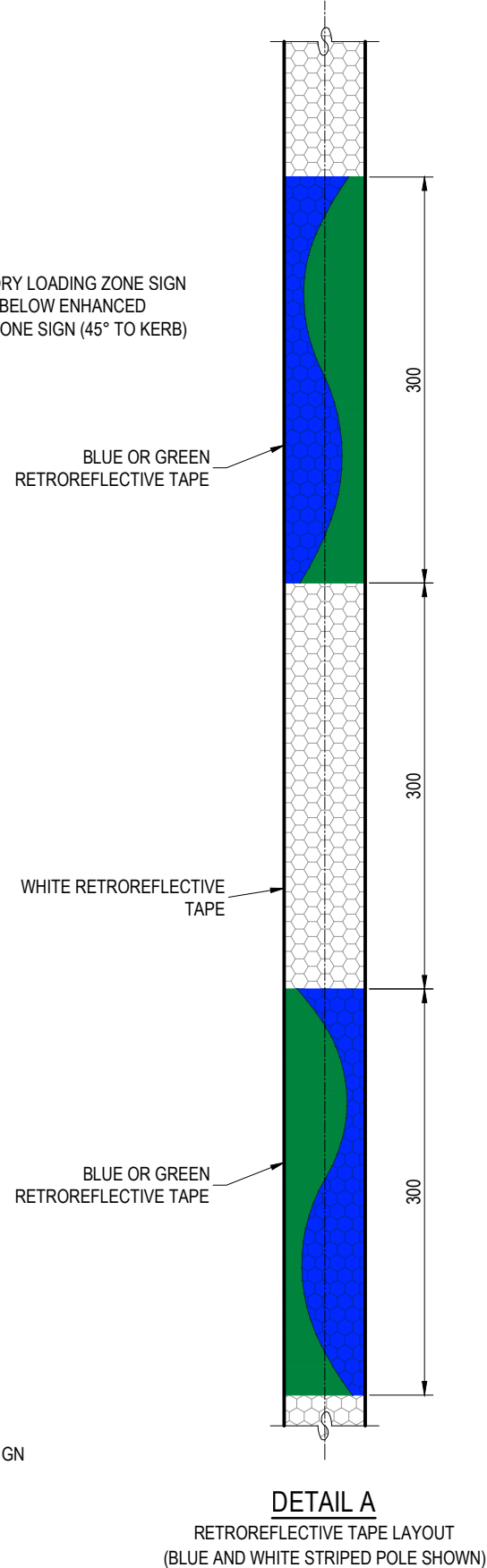
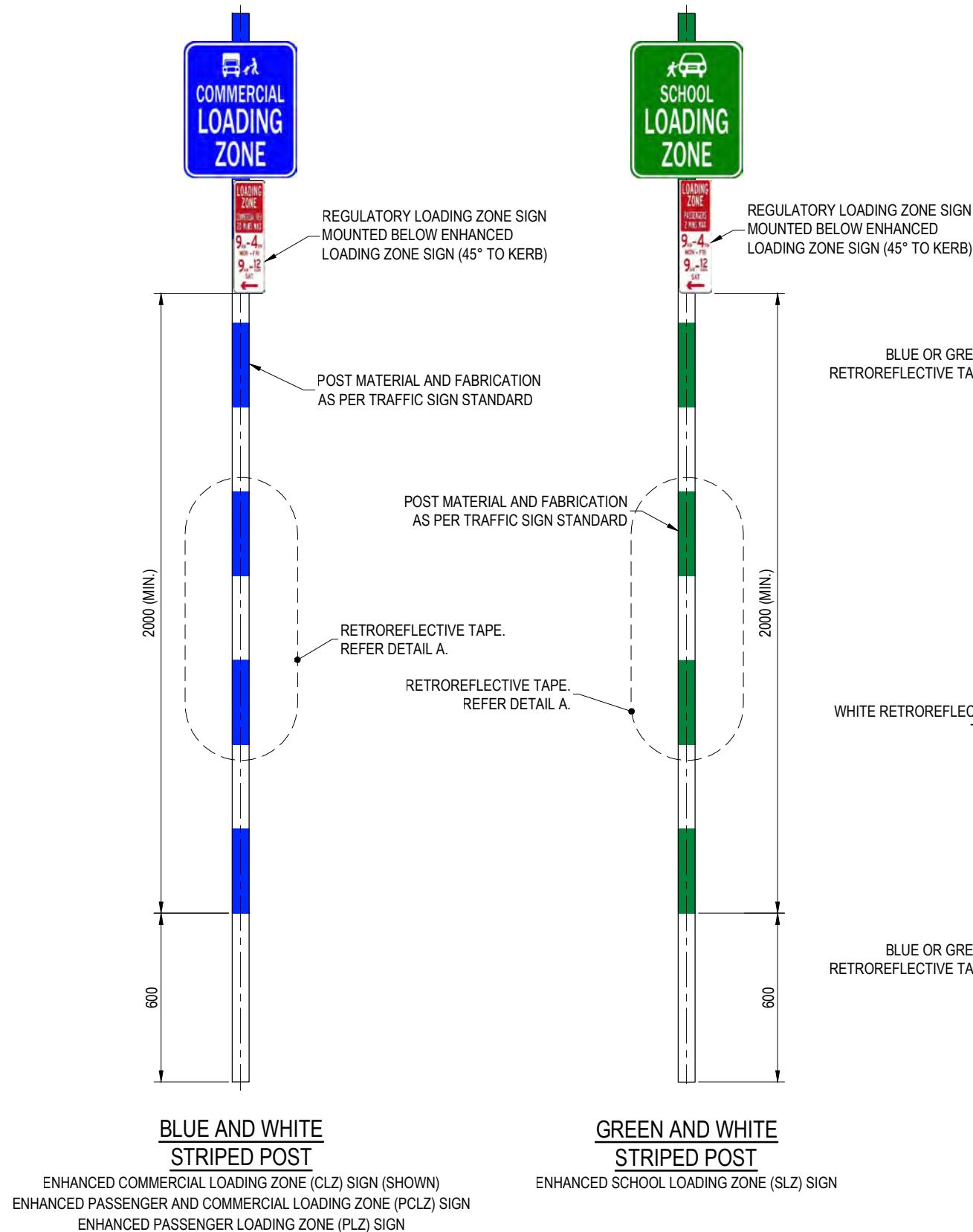
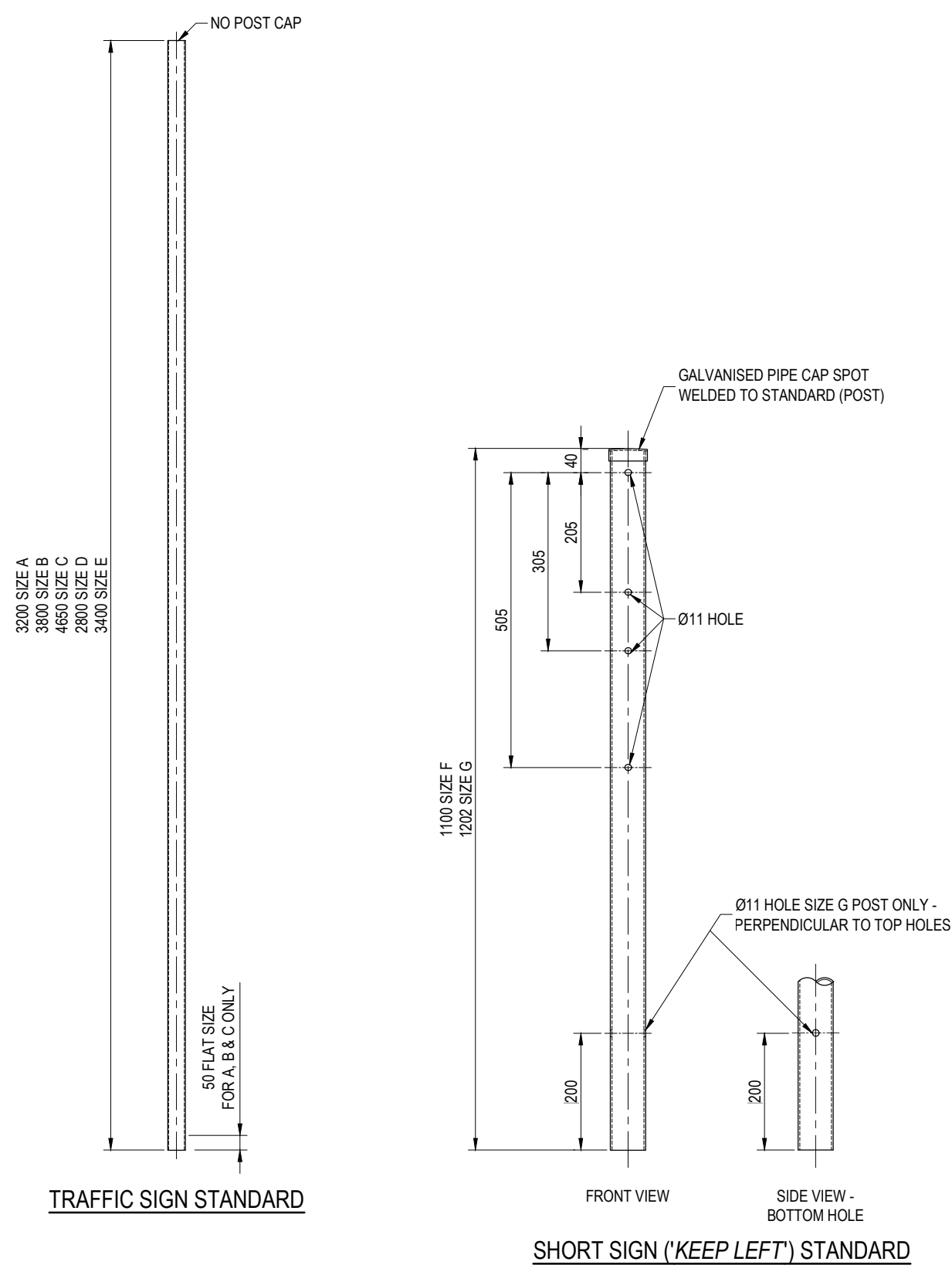
NARROW FORMATIONS:- 20m FOR SHORT HIGH FILLS OR DEEP DRAINAGE DITCHES.

## STANDARD TIMBER POSTS

- 1600 MIN.x100x50 HARDWOOD WITH 6 ARRIS AROUND EXPOSED PERIMETER OF POST. EXTRA LENGTH AS REQUIRED TO SUIT LOCATION.

					<div>DRAWING AUTHORISED FOR PUBLICATION B. BALL SIGNATURE ON ORIGINAL DATED 29/06/01 R.P.E.Q. 3852 ----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED B. HANSEN SIGNATURE ON ORIGINAL DATED 27/06/01 ----- PRINCIPAL ASSET OFFICER ROADS &amp; DRAINAGE</div>	DESIGN	Std Dwgs Group	DATE	APRIL '01		<div>BRISBANE CITY COUNCIL STANDARD DRAWING</div> <div>ROAD    EDGE GUIDE    POSTS</div>			SCALE		NOT TO SCALE	
						DRAWN	CITY DESIGN	DATE	APRIL '01					DWG No.	BSD-7121		
						CHECKED	M. STEER	DATE	MAY '01					ORIGINAL SIZE	A3		
						DRAWING FILENAME	BSD-7121 (A) Road edge guide posts.dwg							REVISION	A		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-131										
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE													





NOTES:

1. TRAFFIC SIGN STANDARD TO BE MANUFACTURED AS PER *REFERENCE SPECIFICATION S154 TRAFFIC SIGNS AND ROADSIDE FURNITURE*.
2. SHORT SIGN ('KEEP LEFT') STANDARD:
  - NEW STOCK: MANUFACTURED AS PER *REFERENCE SPECIFICATION S154 TRAFFIC SIGNS AND ROADSIDE FURNITURE*: OR
  - RECYCLED/RECOVERED STOCK: CUT TO LENGTH RECYCLED (DAMAGED) TRAFFIC SIGN STANDARD AS PER NOTE 1.
3. STRIPED STANDARD (POLE) DIMENSIONS, MATERIALS AND FABRICATION AS PER PER TRAFFIC SIGN STANDARD.
4. FOR STRIPED STANDARDS, USE ALTERNATE BANDS OF 300mm WIDE GREEN OR BLUE AND WHITE CLASS 1A RETROREFLECTIVE TAPE TO *AS/NZS1906* FOR ALL STRIPES.
5. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

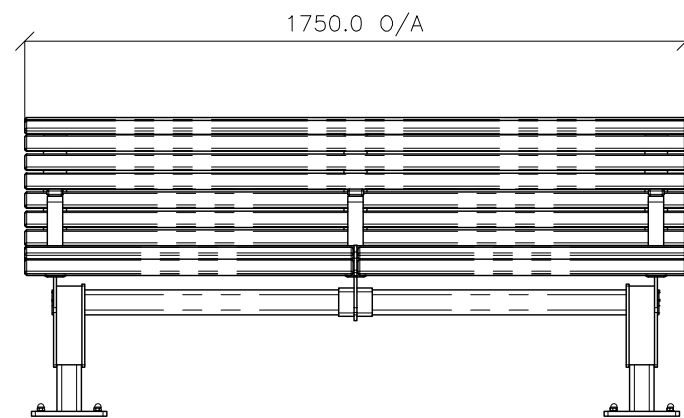
THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED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



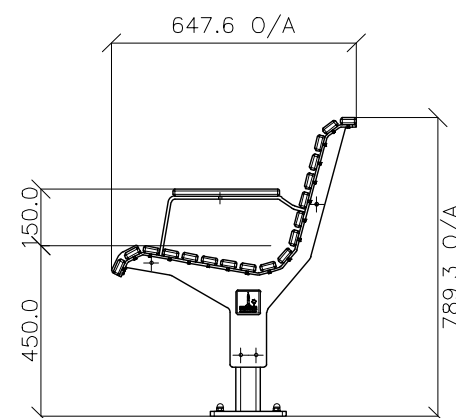
BRISBANE CITY COUNCIL STANDARD DRAWING

TRAFFIC SIGN  
STANDARDS (POSTS)

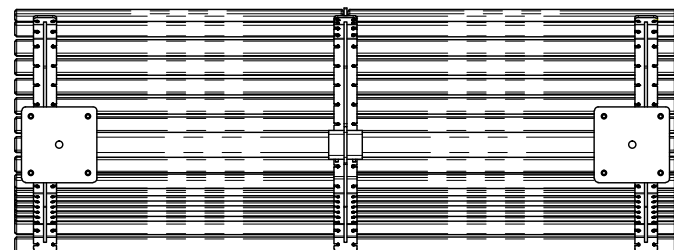
PUBLISH DATE		JUN 2023
SCALE		NOT TO SCALE
DRAWING NUMBER		BSD-7122
ORIGINAL SIZE	REVISION	
A3	E	



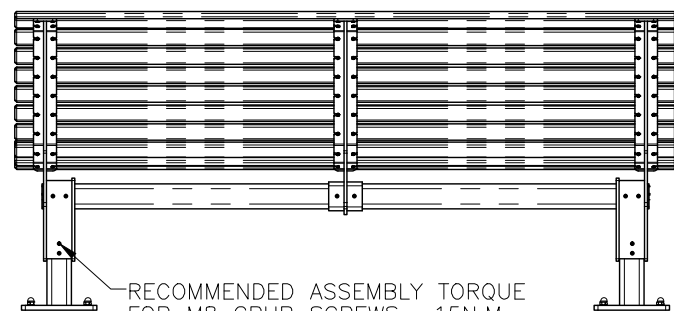
FRONT VIEW



SIDE VIEW

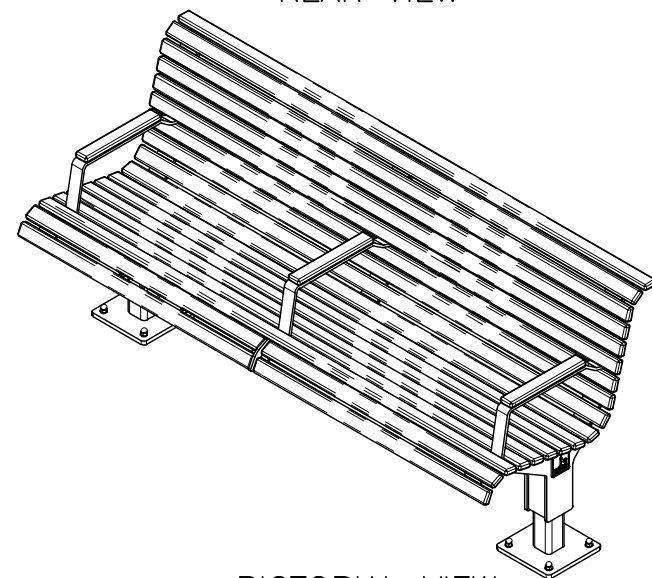


BOTTOM VIEW



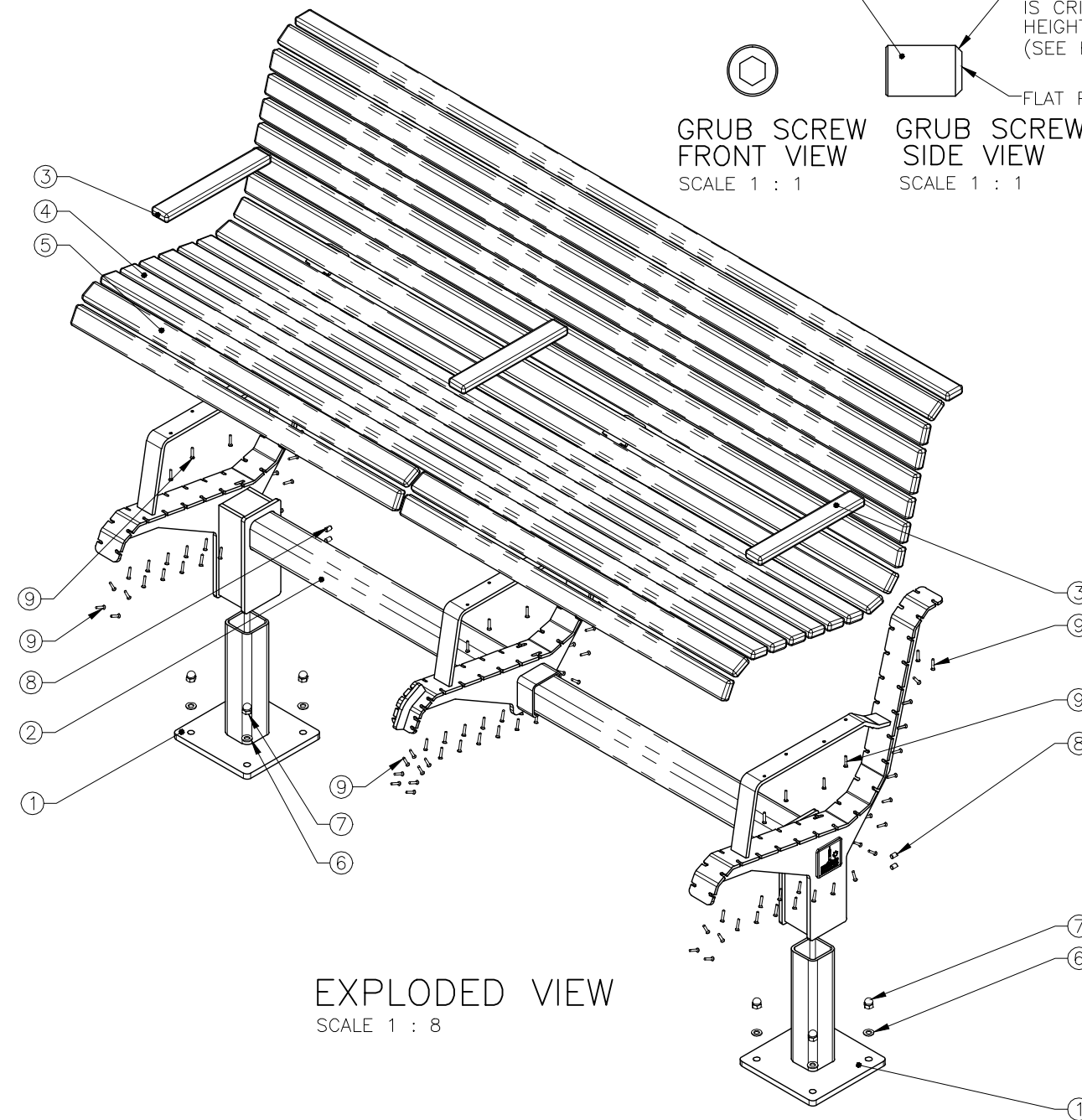
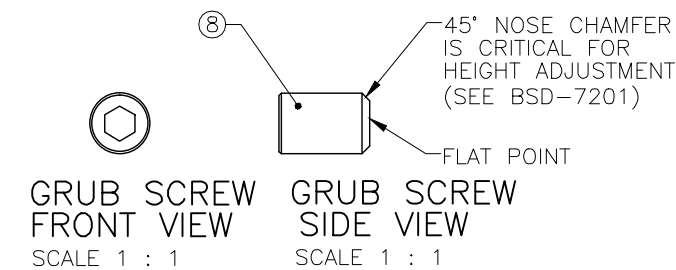
RECOMMENDED ASSEMBLY TORQUE  
FOR M8 GRUB SCREWS = 15N.M  
COAT WITH LOCTITE 243 THREADLOCKER  
PRIOR TO INSERTION. REFER TO  
BSD-7201 FOR FURTHER DETAILS

REAR VIEW



PICTORIAL VIEW

ITEM NO.	DESCRIPTION	QTY.
1	Standard Seat Foot	2
2	Standard Seat Frame	1
3	Standard Seat Armrest Slat	3
4	Standard Seat Long Slat	16
5	Standard Seat Short Slat	4
6	M10 304 Stainless Steel Flat Washer	8
7	M10 304 Stainless Steel Dome Nut	8
8	M8 x12mm 304 Stainless Steel Grub Screw (Flat Point)	4
9	8G CSK 304 Stainless Steel Pan Head Philips Screw	124



EXPLODED VIEW  
SCALE 1 : 8

## STANDARDS

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

- PARTIALLY COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
- 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.
- AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
- AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
- AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
- AS4680:2006, HOT DIP GALVANISING.
- POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

## 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

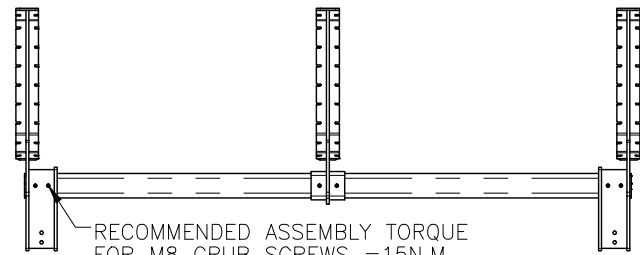
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- COLOUR: SEE COMPONENT DRAWING
- FINISH: SEE COMPONENT DRAWING

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807

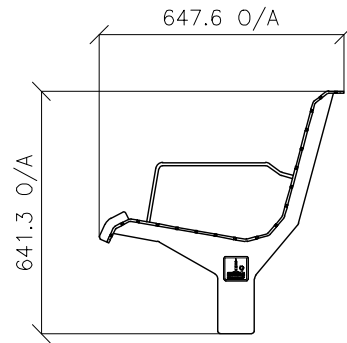
SIGNATURE: ON ORIGINAL DATE: 28/6/12

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIE AUTHORISED 15/04/2014		DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT		DRAWN	AB	DATE	JUN '12		SCALE NOT TO SCALE		
B	SIDE PANEL FIXTURES	SEPT '14	SEPT '14	SEPT '14	DESIGN APPROVED		CHECKED	VM	DATE	APR '13		DWG No. <b>BSD-7201</b>		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL		DRAWING FILENAME	BSD-7201 (B) Standard seat - Assembly - Sheet 1 of 10.dwg				ORIGINAL SIZE A3		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN		ASSOCIATED PLANS	SUPERSEDES UMS-563-1				REVISION C		

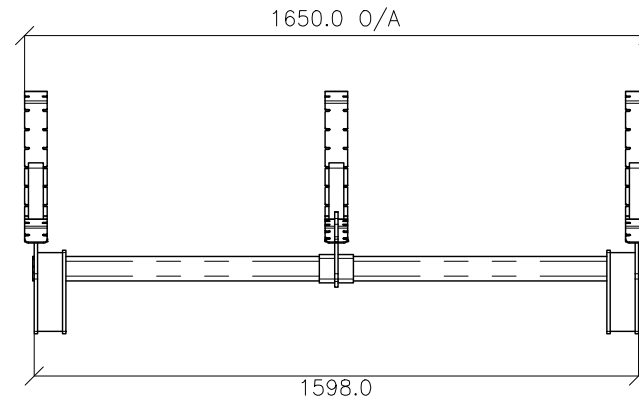


RECOMMENDED ASSEMBLY TORQUE  
FOR M8 GRUB SCREWS =15N.M  
COAT WITH LOCTITE 243 THREADLOCKER  
PRIOR TO INSERTION.

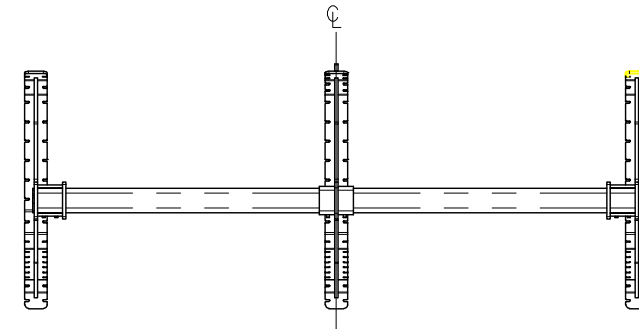
REAR VIEW



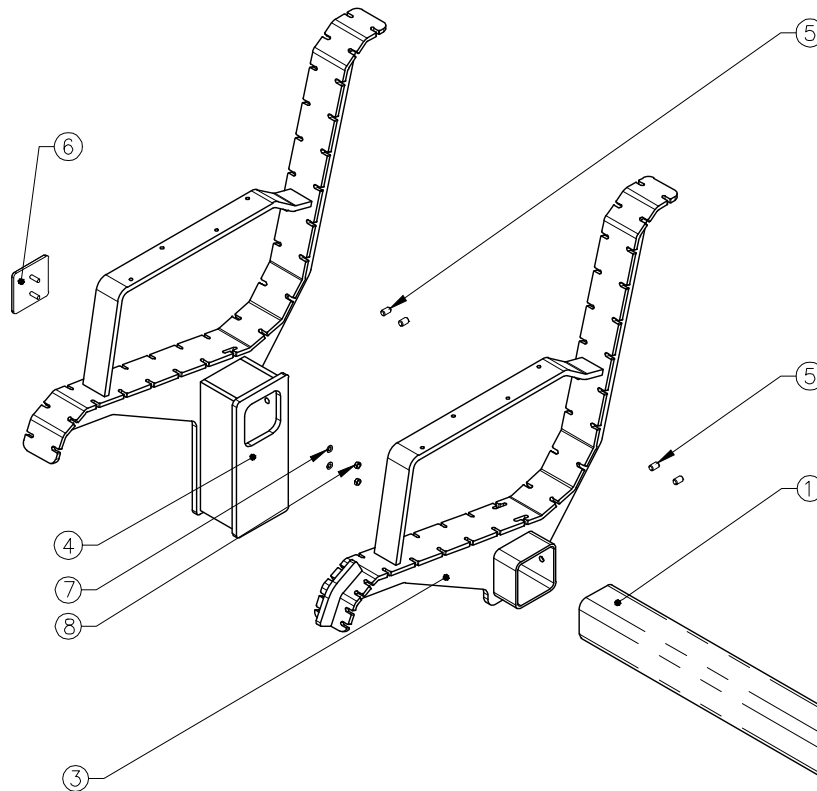
SIDE VIEW



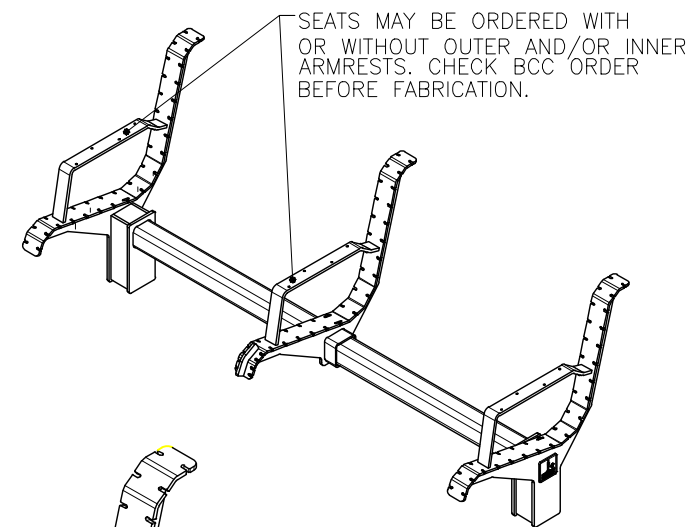
FRONT VIEW



BOTTOM VIEW



EXPLODED VIEW  
SCALE 1 : 10



PICTORIAL VIEW

## STANDARDS

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

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AS1428.2:1992, CLAUSE 27.2 SEATING IN  
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'PEDESTRIANS', PART 13, AUSTRROADS.  
AS2796.3:1999, TIMBER FOR FURNITURE  
COMPONENTS.
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STANDARD WITH PRE-TREATMENT SAND  
BLAST, ZINC PHOSPHATE, ETC.
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WITH AS1604.1 HAZARD CLASSIFICATION  
H3 (EXTERIOR ABOVE GROUND) AND  
AS2796.3 (TIMBER FOR FURNITURE  
COMPONENTS.)

## NOTES

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EDGES & BURRS REMOVED.
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FREE FROM MARKS, BURRS, SCUFFS,  
DISTORTION AND WARPAGE.
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316 S.S AND 316 S.S FASTENERS TO BE  
USED THROUGHOUT FOR COASTAL  
INSTALLATIONS OR ANY ENVIRONMENT WITH  
HIGH CORROSION.
5. ALL TOLERANCES  $\pm 1.5\text{mm}$  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

ITEM NO.	DESCRIPTION	QTY.
1	Standard Seat Rail	1
2	Standard Seat Outer Spine (Right)	1
3	Standard Seat Inner Spine	1
4	Standard Seat Outer Spine (Left)	1
5	M8 x12mm 304 Stainless Steel Grub Screw (Flat Point)	6
6	Standard Seat Logo Badge	2
7	M5 304 Stainless Steel Spring Washer	4
8	M5 304 Stainless Steel Nyloc Nut	4

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>				
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		<b>STANDARD SEAT FRAME ASSEMBLY SHEET 2 OF 10</b>			SCALE NOT TO SCALE	
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13					DWG No. <b>BSD-7201</b>	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7201 (B) Standard seat - Frame assembly - Sheet 2 of 10.dwg				ORIGINAL SIZE	REVISION			
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		PRINCIPAL PLANNING OFFICER URBAN DESIGN			ASSOCIATED PLANS		SUPERSEDES UMS-563-2		A3	B	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE											



# STANDARDS

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

1. PARTIALLY COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
6. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING.
9. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

# 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.

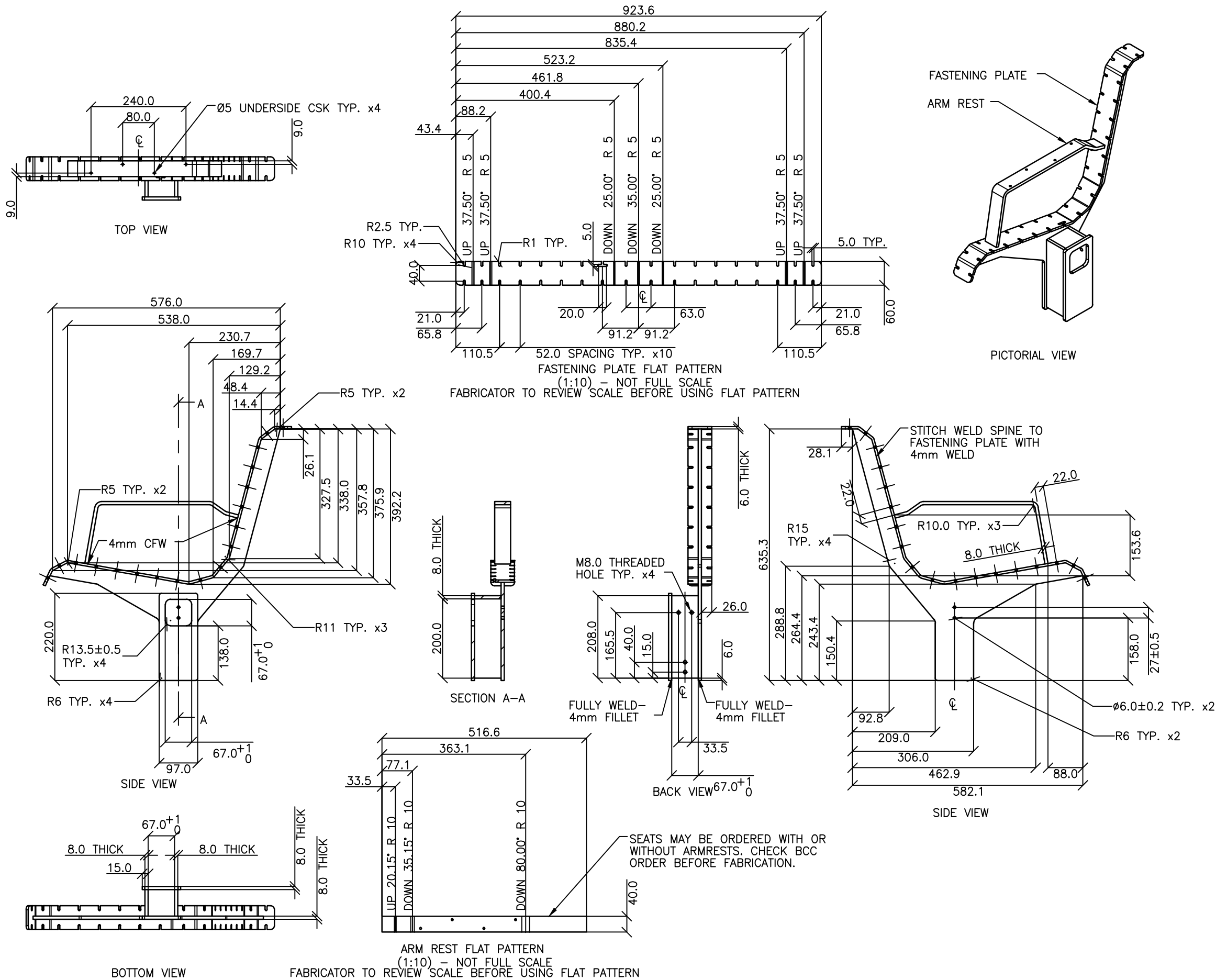
# MATERIAL


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

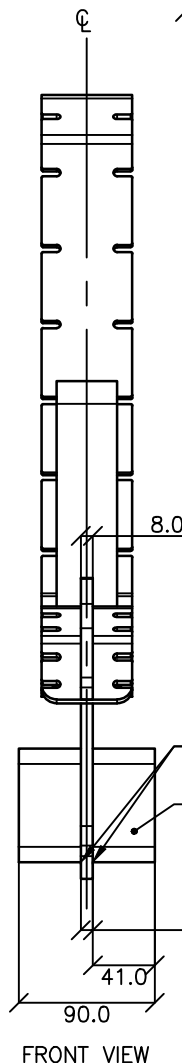
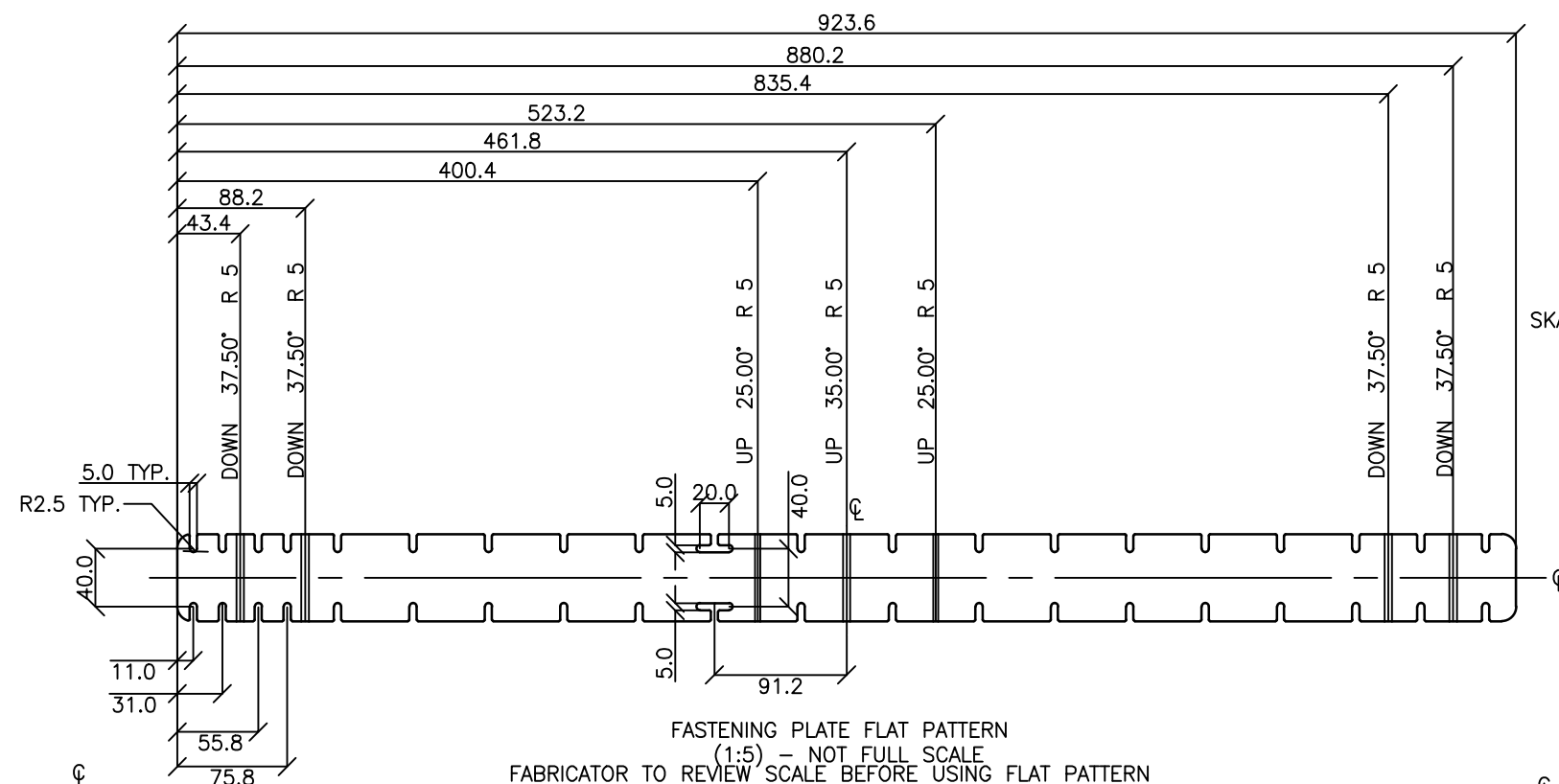
NAME: B.C. PLANT \_\_\_\_\_ RPEQ: 8807 \_\_\_\_\_

SIGNATURE: ON ORIGINAL \_\_\_\_\_ DATE: 28/6/12



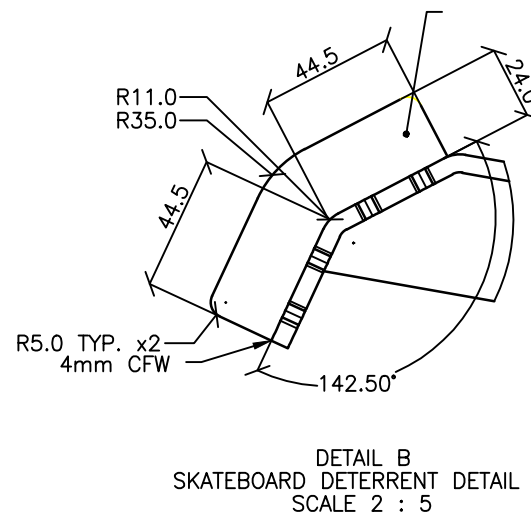
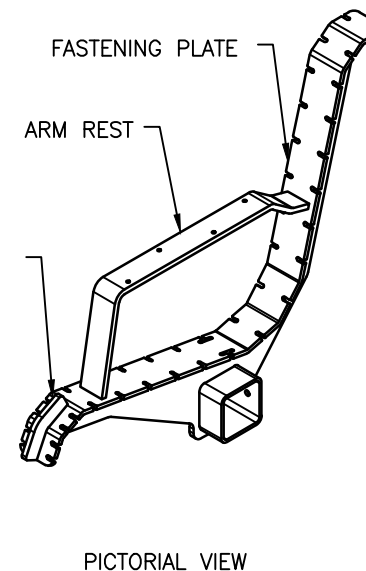
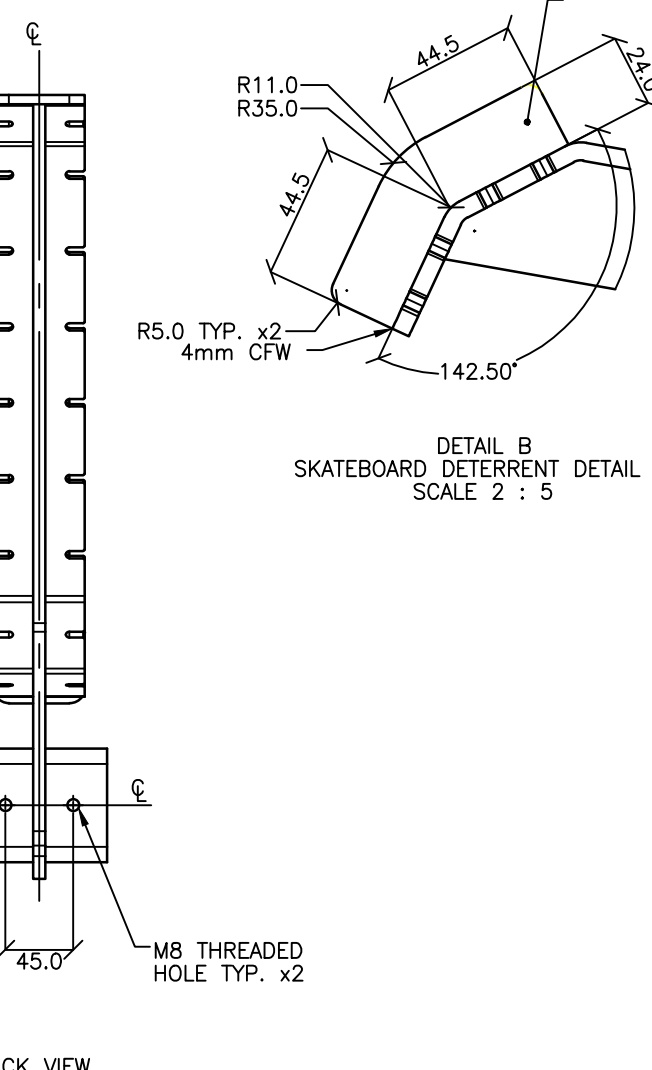
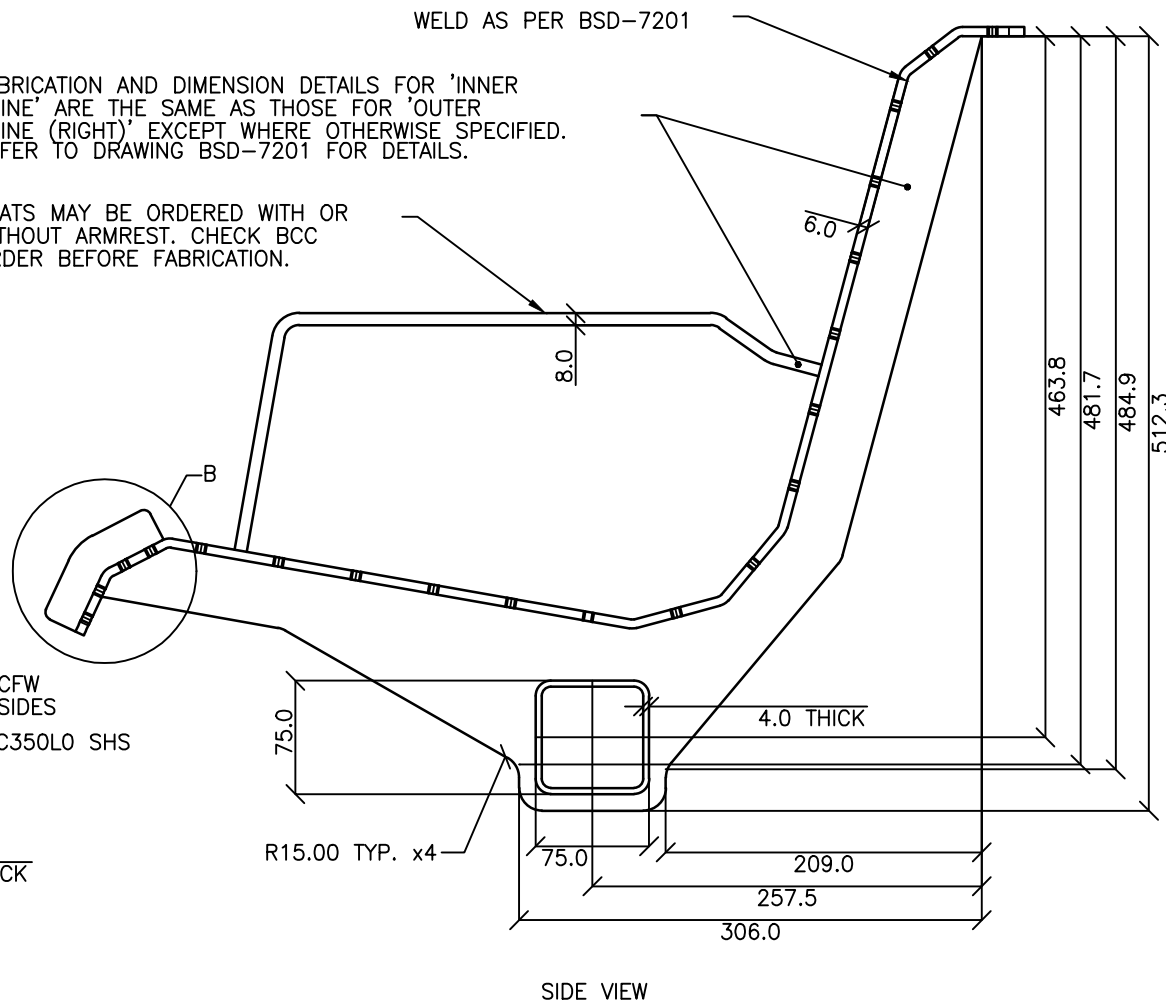
					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE NOT TO SCALE			
C	Colour Finish Requirements Updated (MAterial Notes)	MAY '17	MAY '17	MAY '17	DESIGN APPROVED  VICKI MARTIN SIGNATURE ON ORIGINAL	CHECKED	VM	DATE	APR '13		Dwg No. <b>BSD-7201</b>			
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		DRAWING FILENAME	BSD-7201 (B) Standard seat - Outer spine (right) - Sheet 3 of 10.dwg					ORIGINAL SIZE A3		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-563-3					REVISION C		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		STANDARD SEAT OUTER SPINE (RIGHT) SHEET 3 OF 10								





FABRICATION AND DIMENSION DETAILS FOR 'INNER SPINE' ARE THE SAME AS THOSE FOR 'OUTER SPINE (RIGHT)' EXCEPT WHERE OTHERWISE SPECIFIED. REFER TO DRAWING BSD-7201 FOR DETAILS.

SEATS MAY BE ORDERED WITH OR WITHOUT ARMREST. CHECK BCC ORDER BEFORE FABRICATION.



## STANDARDS

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

1. PARTIALLY COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
6. AS1604.1-2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING.
9. POWDERCOATING TO BE IN ACCORDANCE TO AS4506-2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

## 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.
7. FABRICATION AND DIMENSION DETAILS FOR 'SEAT INNER SPINE' ARE THE SAME AS THOSE FOR 'SEAT OUTER SPINE (RIGHT)' EXCEPT WHERE OTHERWISE SPECIFIED. REFER TO DRAWING BSD-7201 FOR DETAILS.

## 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

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7201 (B) Standard seat - Inner spine - Sheet 4 of 10.dwg		
					PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-563-4		
C	Colour Finish Requirements Updated (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	APR '14	APR '14	APR '14					
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE					



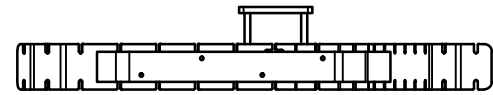
## BRISBANE CITY COUNCIL STANDARD DRAWING

**STANDARD SEAT  
INNER SPINE  
SHEET 4 OF 10**

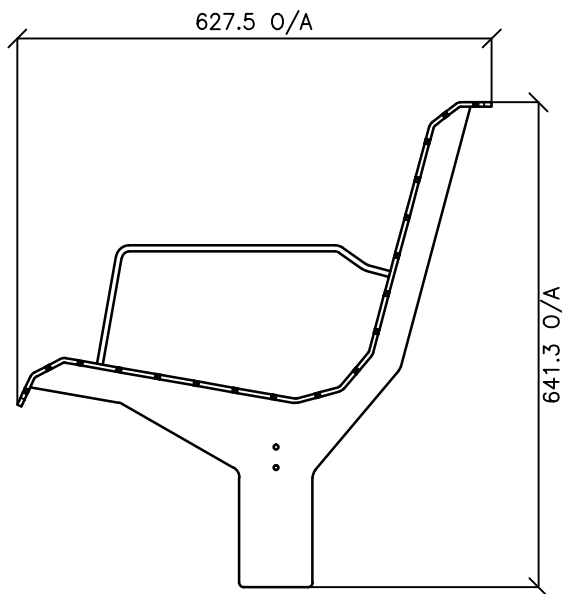
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DWG No. **BSD-7201**

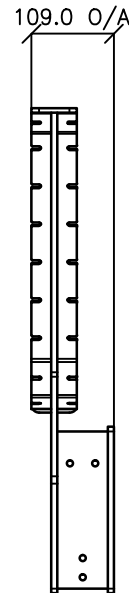
ORIGINAL SIZE A3 REVISION C



TOP VIEW

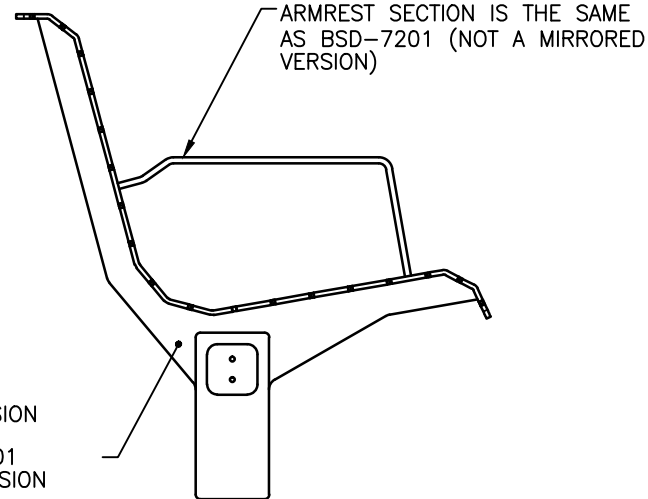


RIGHT SIDE VIEW

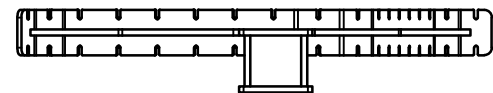


BACK VIEW

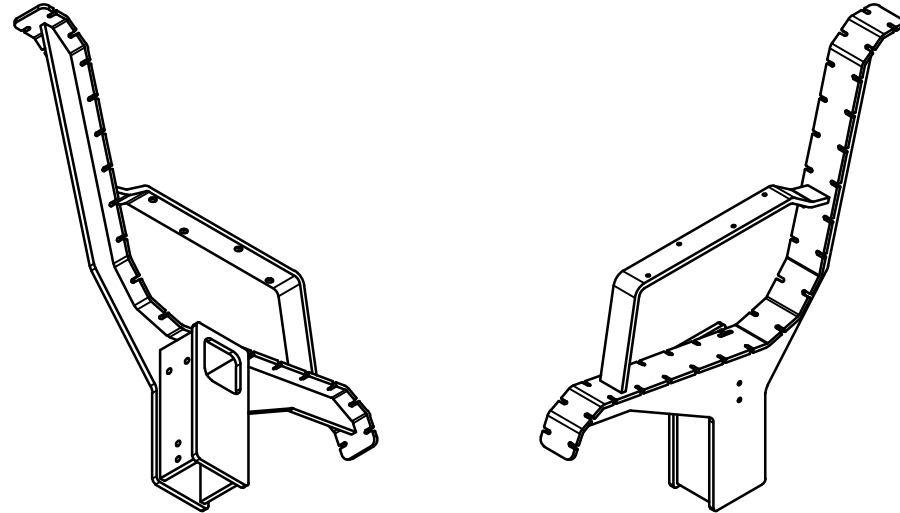
LEFT HAND (MIRRORED) VERSION OF 'OUTER SPINE (RIGHT)' REFER TO DRAWING BSD-7201 FOR FABRICATION AND DIMENSION DETAILS.



LEFT SIDE VIEW



BOTTOM VIEW



PICTORIAL VIEWS

## STANDARDS

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

1. PARTIALLY COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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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7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING.
9. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

## 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.
7. THIS IS A LEFT HAND (MIRRORED) VERSION OF PART 'SEAT OUTER SPINE (RIGHT)' – REFER TO DRAWING BSD-7201 FOR FABRICATION AND DIMENSION DETAILS.

## 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

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>	
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12			
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13			
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7201 (B) Standard seat - Outer spine (left) - Sheet 5 of 10.dwg					
					PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-563-5					
C	Colour Finish Requirements Updated (Material Notes)	MAY '17	MAY '17	MAY '17							<b>STANDARD SEAT OUTER SPINE (LEFT) SHEET 5 OF 10</b>	SCALE NOT TO SCALE
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16								DWG No. <b>BSD-7201</b>
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14								ORIGINAL SIZE A3
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE								REVISION C

# STANDARDS

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

1. PARTIALLY COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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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10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

# 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.
7. SEAT FOOT IS THE SAME PART AS BENCH FOOT (REFER TO DRAWING BSD-7203)

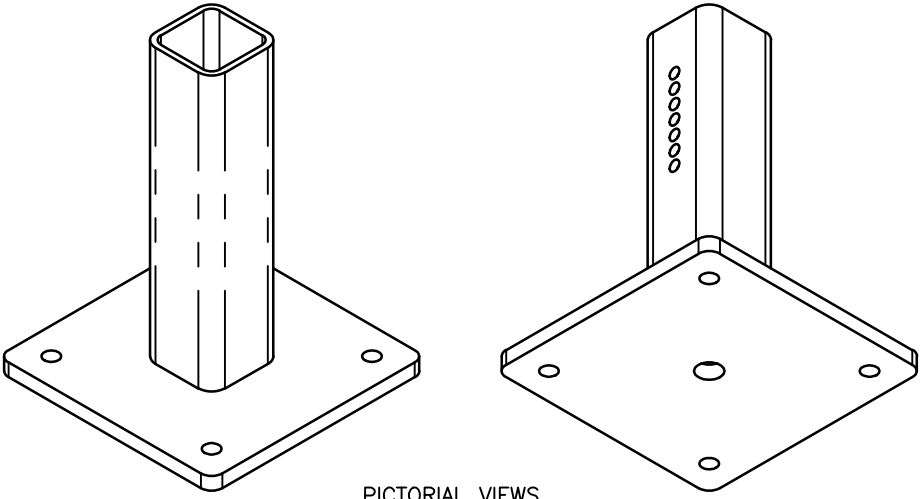
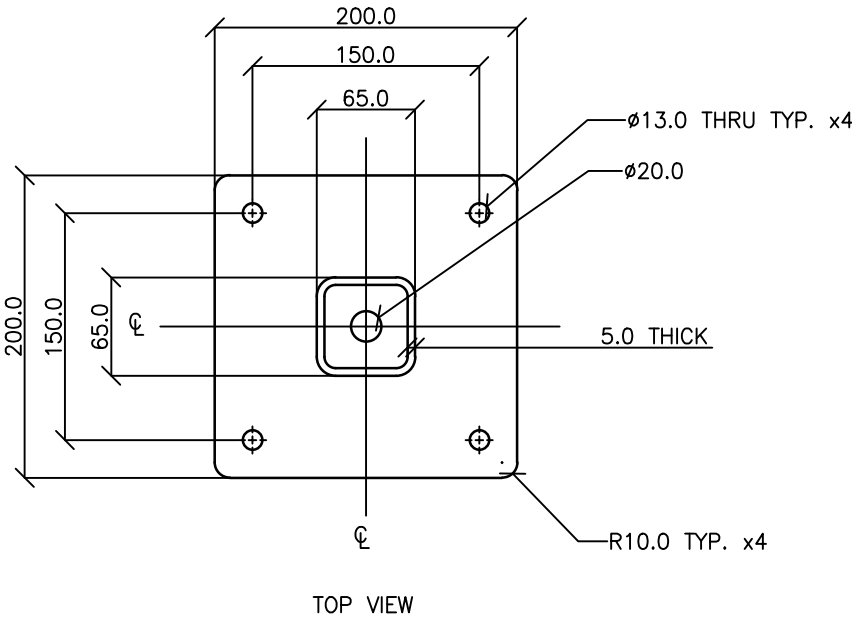
# MATERIAL

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

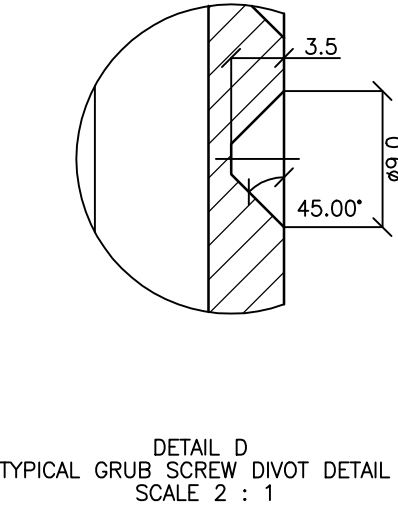
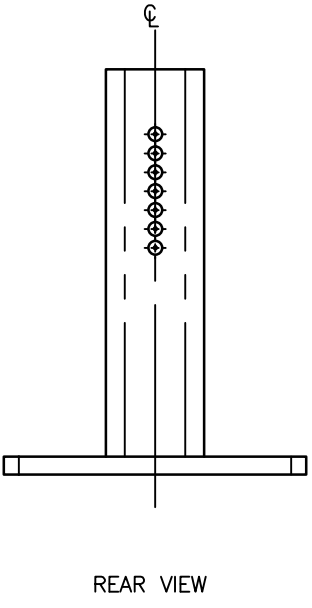
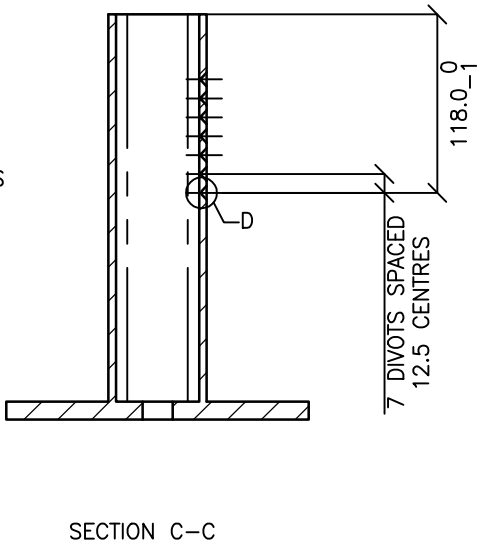
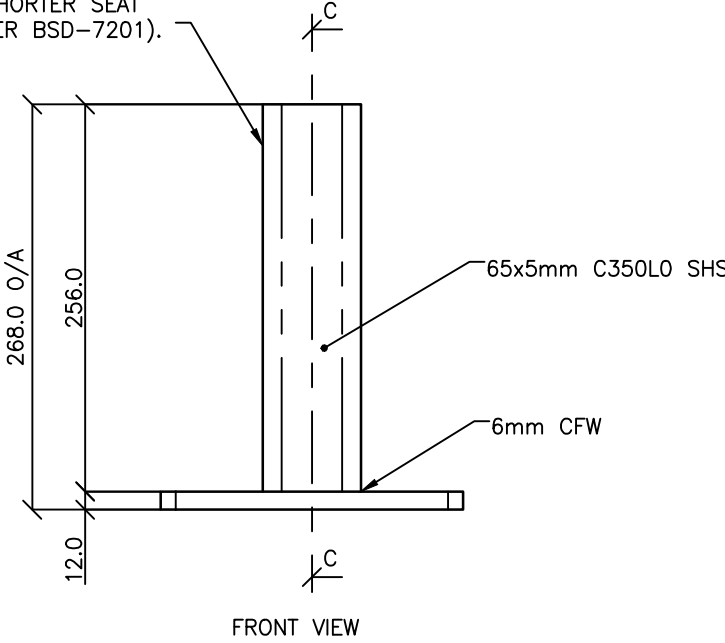
**STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE**


NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL DATE: 28/ 6 /12



LEG LENGTH SUITS 450mm  
HIGH SEAT. LEG TO BE DOCKED  
TO LENGTH FOR SHORTER SEAT  
INSTALLATION (REFER BSD-7201).



					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING	
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE	NOT TO SCALE
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13		DWG No.	BSD-7201
					VICKY MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7201 (B) Standard seat - Foot - Sheet 6 of 10.dwg				ORIGINAL SIZE	A3
					PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-563-6				REVISION	C
C	Finish Colour Requirements Updated (Material Notes)	MAY '16	MAY '16	MAY '16							STANDARD SEAT FOOT SHEET 6 OF 10	
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								

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

- NOTES

- ## MATERIAL

- STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE**

NAME: B.C. PLANT RPEQ: 8807


SIGNATURE: ON ORIGINAL \_\_\_\_\_ DATE: 28/6/12



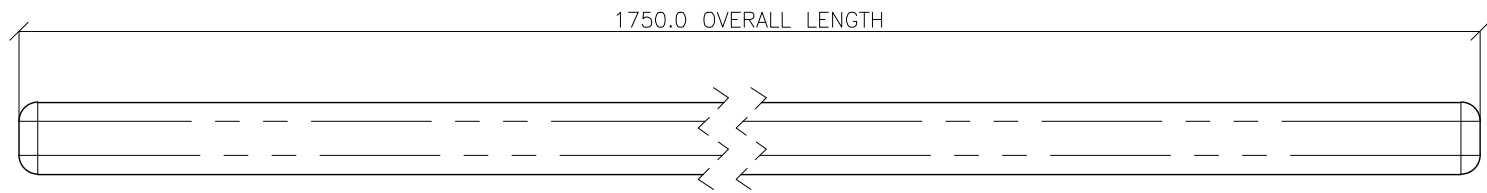
FRONT VIEW

65x5mm C350L0 SHS

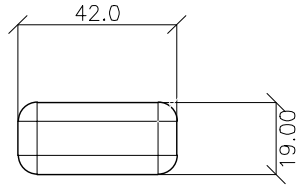


					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014</div> <div>ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED</div> <div>VICKI MARTIN SIGNATURE ON ORIGINAL</div> <div>PRINCIPAL PLANNING OFFICER JURBAN DESIGN</div>	DESIGN	FORM200 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
C	Colour Finish Requirement Updated (Material Notes)	MAY '17	MAY '17	MAY '17		DRAWN	AB	DATE	JUN '12		SCALE	NOT TO SCALE	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13		DWG No.	BSD-7201	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-7201 (B) Standard seat - Rail - Sheet 7 of 10.dwg				ORIGINAL SIZE	REVISION	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS-563-7				A3	C	



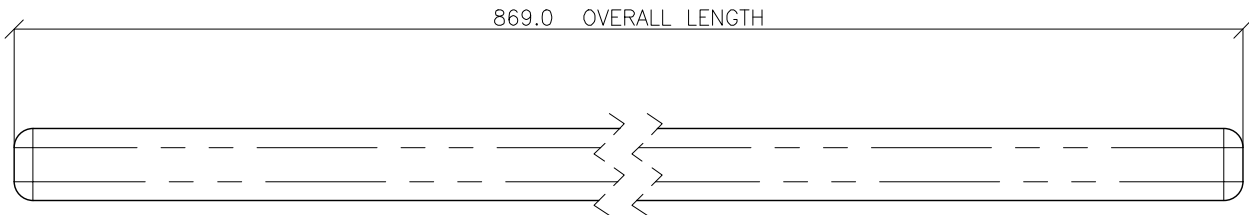


FRONT VIEW

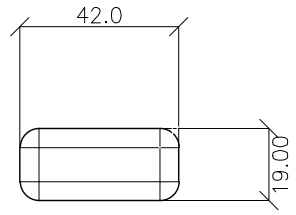


SIDE VIEW

STANDARD SEAT LONG SLAT

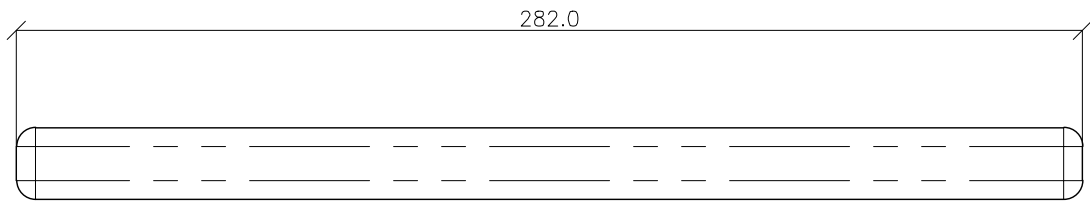


FRONT VIEW

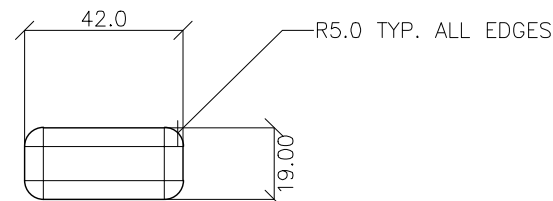


SIDE VIEW

STANDARD SEAT SHORT SLAT



FRONT VIEW



SIDE VIEW

STANDARD SEAT ARM REST SLAT

## STANDARDS

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

- PARTIALLY COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
- 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, AUSTRROADS.
- AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
- AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
- AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
- AS4680:2006, HOT DIP GALVANISING.
- POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

## 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.
- SEAT LONG SLAT IS THE SAME PART AS BENCH LONG SLAT (REFER TO DRAWING BSD-7201)
- SEAT SHORT SLAT IS THE SAME PART AS BENCH SHORT SLAT (REFER TO DRAWING BSD-7201)
- SEAT ARM REST SLAT IS THE SAME PART AS BENCH ARM REST SLAT (REFER TO DRAWING BSD-7201)


## MATERIAL

- MATERIAL: HARDWOOD
- COLOUR: JARRAH STAIN
- FINISH: SMOOTH + WATER BASED FURNITURE OIL

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 CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE NOT TO SCALE		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	CHECKED	VM	DATE	APR '13		DWG No. BSD-7201		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7201 (B) Standard seat - Timber slats - Sheet 8 of 10.dwg				STANDARD SEAT TIMBER SLATS SHEET 8 OF 10		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-563-8				ORIGINAL SIZE A3	REVISION B	

STANDARDS

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

1. PARTIALLY COMPLIANT WITH  
AS1428.2:1992, CLAUSE 27.2 SEATING IN  
PEDESTRIAN AREAS.
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. AS2796.3:1999, TIMBER FOR FURNITURE  
COMPONENTS.
6. AS1604.1–2005, SPECIFICATION FOR  
PRESERVATIVE TREATMENT, SAWN AND  
ROUND TIMBER.
7. AS4506 –2005, METAL FINISHING–  
THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING.
9. POWDERCOATING TO BE IN ACCORDANCE  
TO AS4506–2005 EXTERNAL EXPOSURE  
STANDARD WITH PRE-TREATMENT SAND  
BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE  
WITH AS1604.1 HAZARD CLASSIFICATION  
H3 (EXTERIOR ABOVE GROUND) AND  
AS2796.3 (TIMBER FOR FURNITURE  
COMPONENTS.)

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.
7. SEAT LOGO BADGE IS THE SAME PART AS  
BENCH LOGO BADGE (REFER TO DRAWING  
BSD-7202)

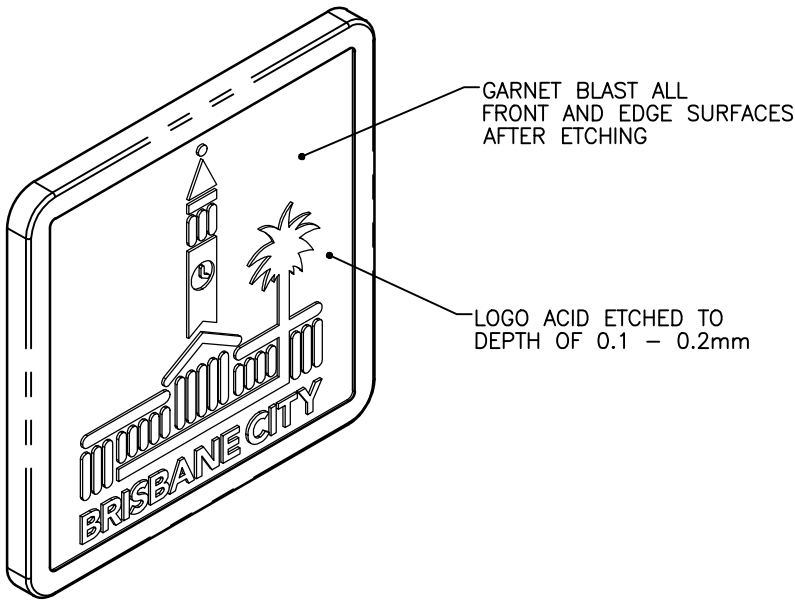
MATERIAL

1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: GARNET BLASTED

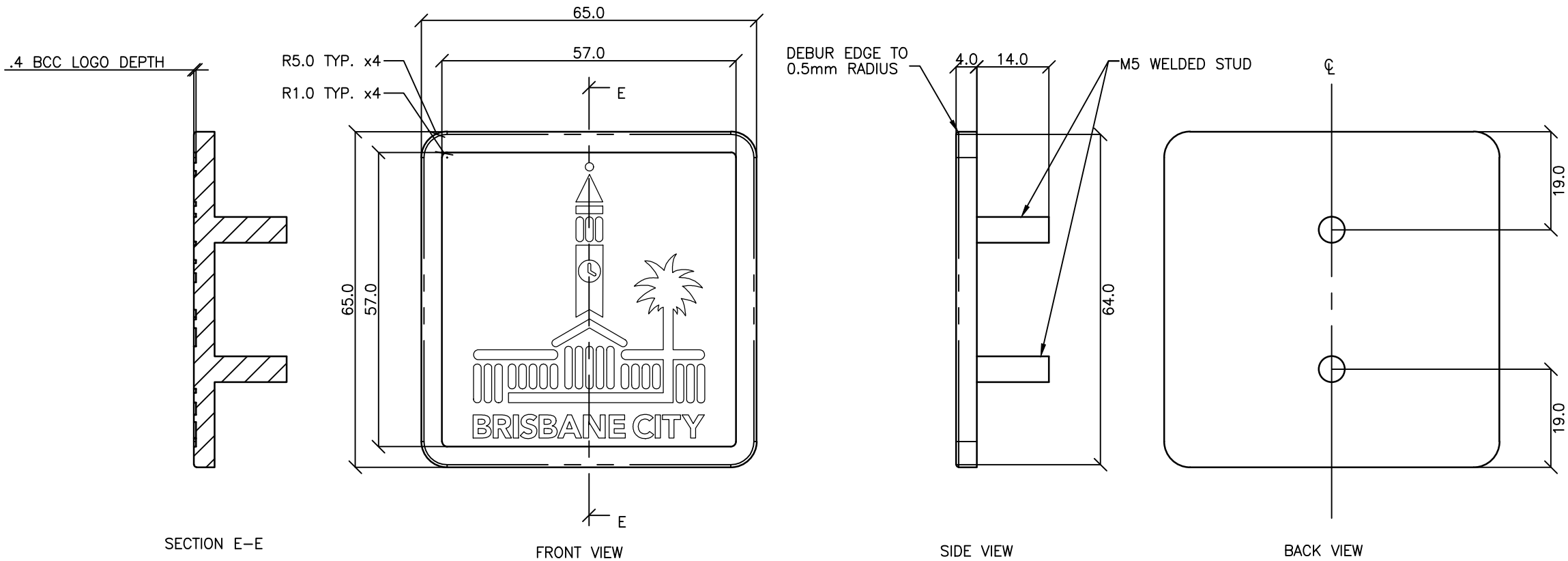
STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT \_\_\_\_\_ RPEQ: 8807 \_\_\_\_\_

SIGNATURE: ON ORIGINAL \_\_\_\_\_ DATE: 28/ 6 / 12



PICTORIAL VIEW




SECTION E-E

FRONT VIEW

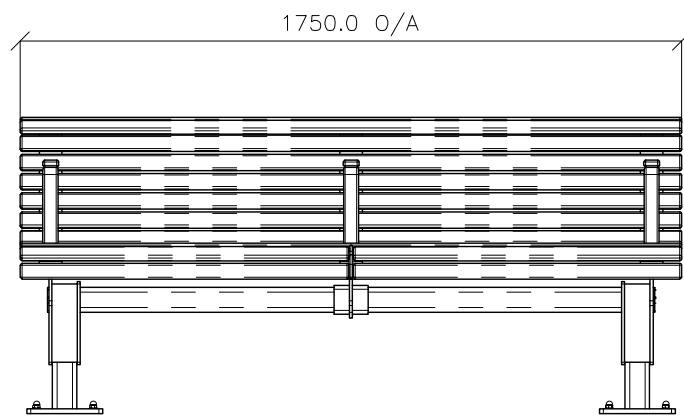
SIDE VIEW

BACK VIEW

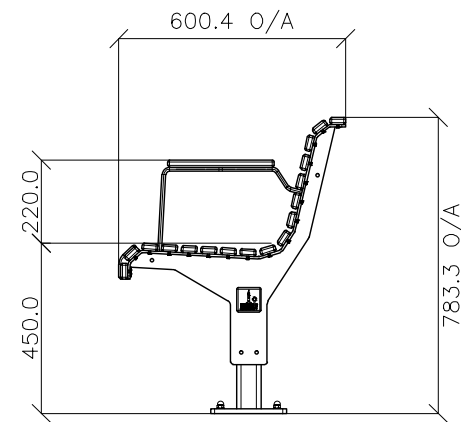
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					DESIGN APPROVED	CHECKED	VM	DATE	APR '13		DWG No. BSD-7201			
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7201 (B) Standard seat - Logo badge - Sheet 9 of 10.dwg				STANDARD SEAT LOGO BADGE SHEET 9 OF 10			
					PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-563-9				ORIGINAL SIZE A3			
											REVISION C			
C	Logo Badge Acid Etch Depth Amended	MAY '17	MAY '17	May '17										
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										



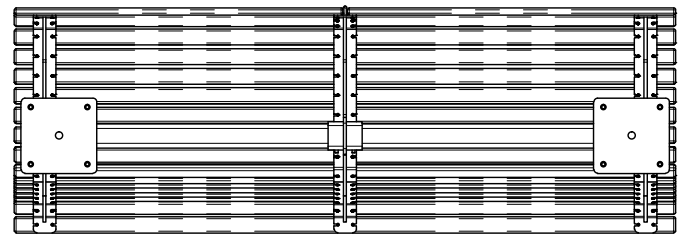




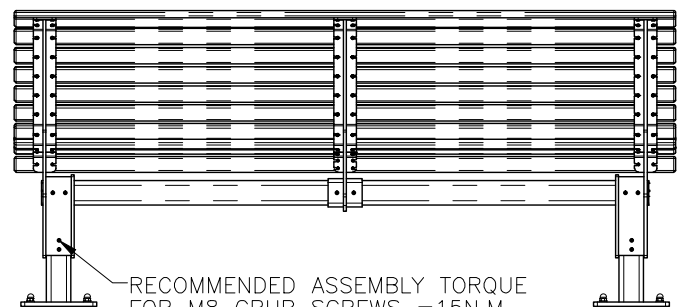
FRONT VIEW



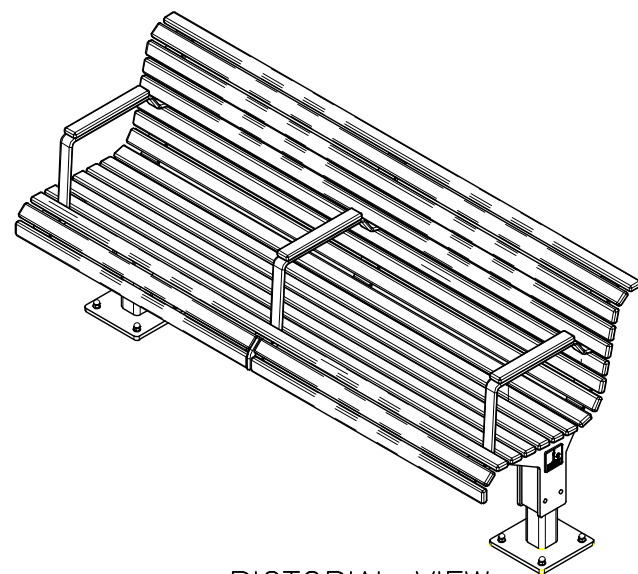
SIDE VIEW



BOTTOM VIEW

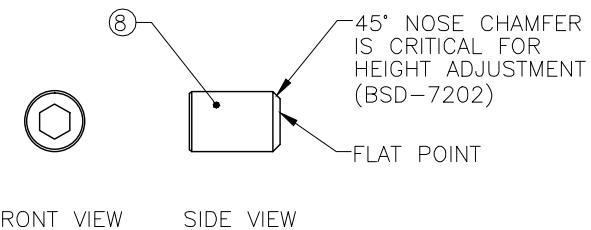


REAR VIEW

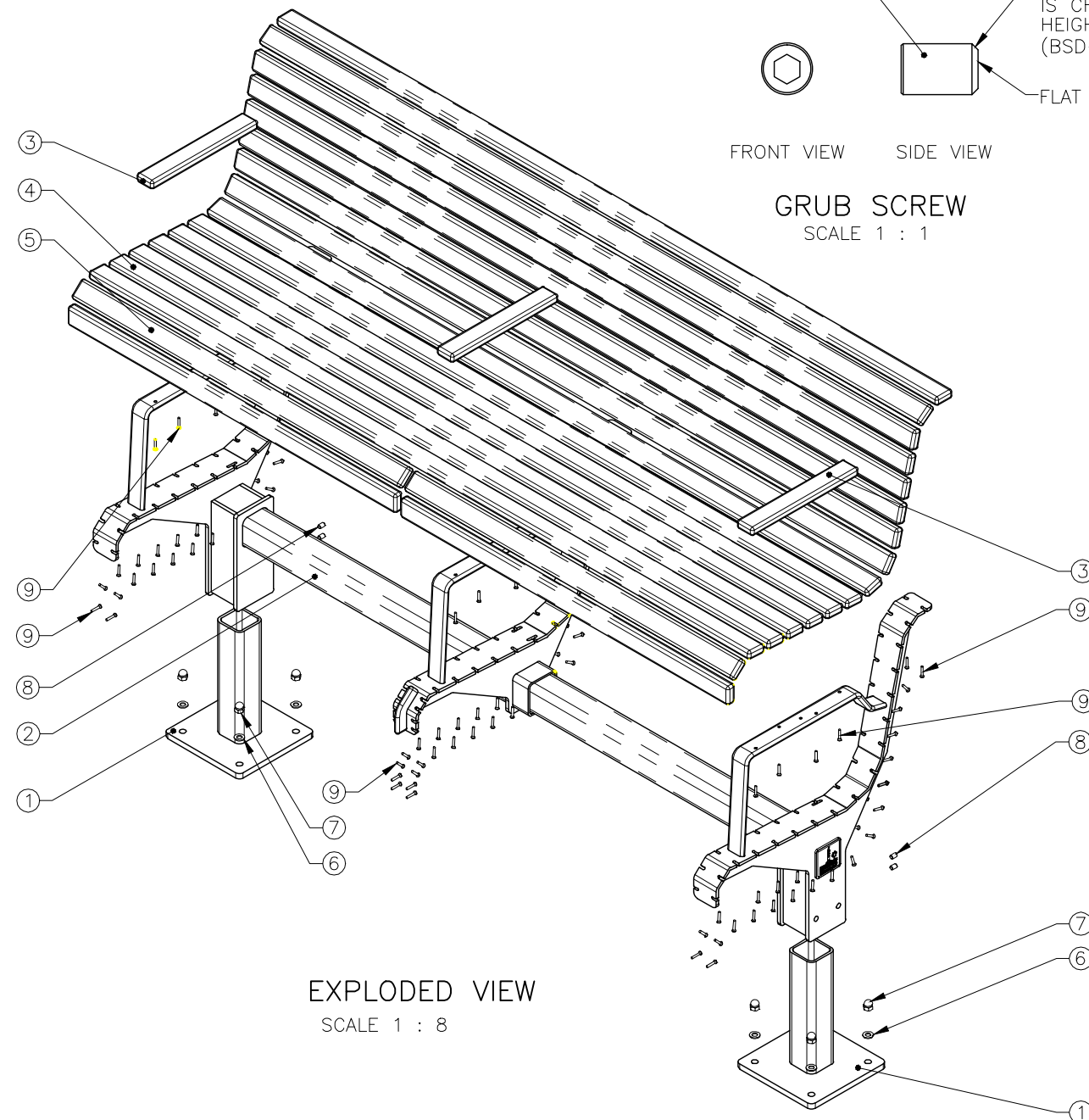


PICTORIAL VIEW

ITEM NO.	DESCRIPTION	QTY.
1	Public Transport Seat Foot	2
2	Public Transport Seat Frame	1
3	Public Transport Seat Armrest Slat	3
4	Public Transport Seat Long Slat	15
5	Public Transport Seat Short Slat	4
6	M10 304 Stainless Steel Flat Washer	8
7	M10 304 Stainless Steel Dome Nut	8
8	M8 x12mm 304 Stainless Steel Grub Screw (Flat Point)	4
9	8G CSK 304 Stainless Steel Pan Head Philips Screw	118



GRUB SCREW  
SCALE 1 : 1



EXPLODED VIEW  
SCALE 1 : 8

## STANDARDS

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

1. COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
6. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING.
9. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

## 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

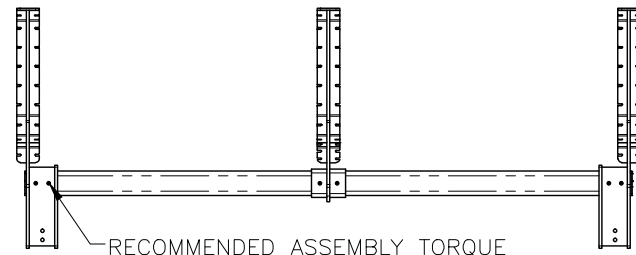
1. MATERIAL: SEE COMPONENT DRAWING
2. COLOUR: SEE COMPONENT DRAWING
3. FINISH: SEE COMPONENT DRAWING

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

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

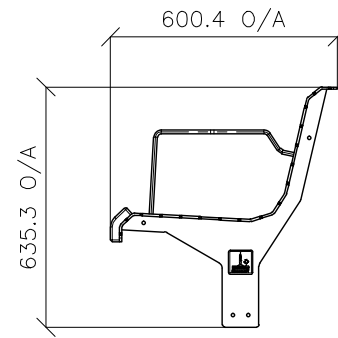
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C	Drawing Title Amended	FEB '16	JUL '16	JUL '16	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT		DRAWN	AB	DATE	JUN '12				
B	Advertising panel amendments	SEPT '14	SEPT '14	SEPT '14	DESIGN APPROVED		CHECKED	VM	DATE	APR '13				
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL		DRAWING FILENAME	BSD-7202 (C) Public transport seat - Assembly - Sheet 1 of 10.dwg						
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN		ASSOCIATED PLANS	SUPERSEDES UMS-569-1						
											<b>PUBLIC TRANSPORT SEAT ASSEMBLY SHEET 1 OF 10</b>			
											SCALE NOT TO SCALE		DWG No. <b>BSD-7202</b>	
											ORIGINAL SIZE A3		REVISION C	



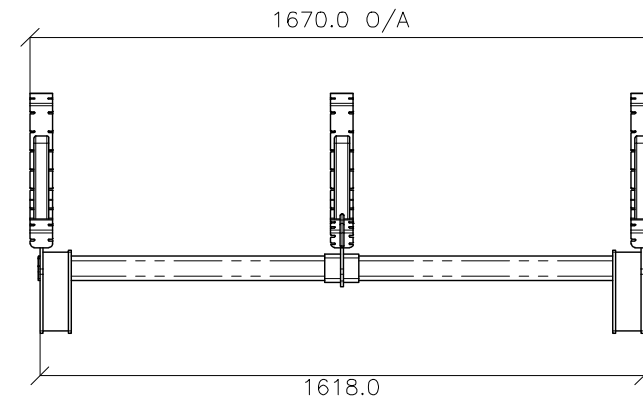


RECOMMENDED ASSEMBLY TORQUE  
FOR M8 GRUB SCREWS =15N.M  
COAT WITH LOCTITE 243 THREADLOCKER  
PRIOR TO INSERTION.

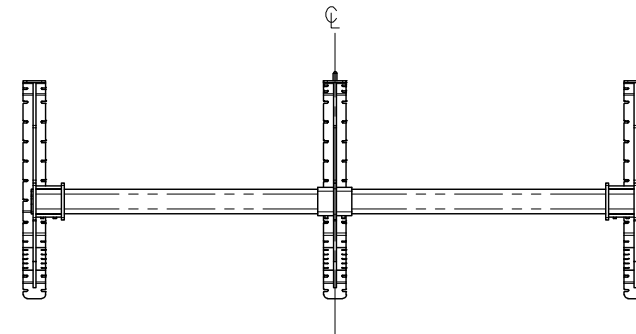
REAR VIEW



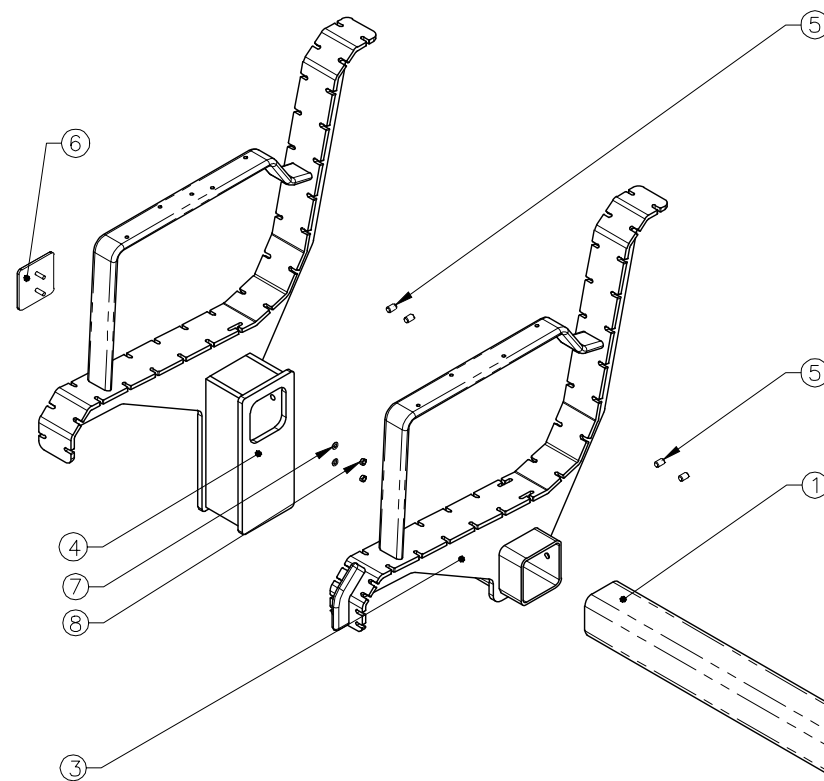
SIDE VIEW



FRONT VIEW

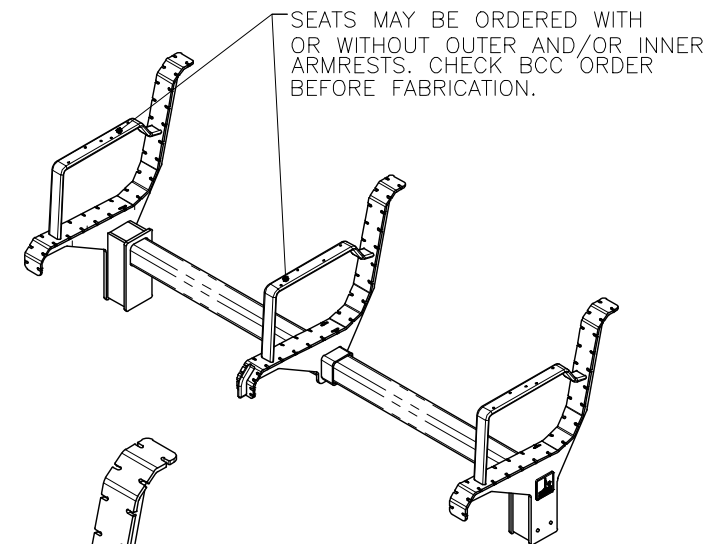


BOTTOM VIEW



EXPLODED VIEW

SCALE 1 : 10



PICTORIAL VIEW

## STANDARDS

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

1. COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
6. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING.
9. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

## 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: 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

ITEM NO.	DESCRIPTION	QTY.
1	Public Transport Seat Rail	1
2	Public Transport Seat Outer Spine (Right)	1
3	Public Transport Seat Inner Spine	1
4	Public Transport Seat Outer Spine (Left)	1
5	M8 x12mm 304 Stainless Steel Grub Screw (Flat Point)	6
6	Public Transport Seat Logo Badge	2
7	M5 304 Stainless Steel Spring Washer	4
8	M5 304 Stainless Steel Nyloc Nut	4

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIE AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16	----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		<div>PUBLIC TRANSPORT SEAT FRAME ASSEMBLY SHEET 2 OF 10</div>	SCALE NOT TO SCALE		
B	Advertising panel amendments	SEPT '14	SEPT '14	SEPT '14	DESIGN APPROVED	CHECKED	VM	DATE	APR '13			DWG No. <b>BSD-7202</b>		
A	ORIGINAL ISSUE	OCT '13	OCT '13	OCT '13	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7202 (C) Public transport seat - Frame assembly - Sheet 2 of 10.dwg						ORIGINAL SIZE A3	REVISION C
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	----- PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569-2							

## STANDARDS

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

1. COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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. AS1604.1-2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING.
9. POWDERCOATING TO BE IN ACCORDANCE TO AS4506-2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

## NOTES

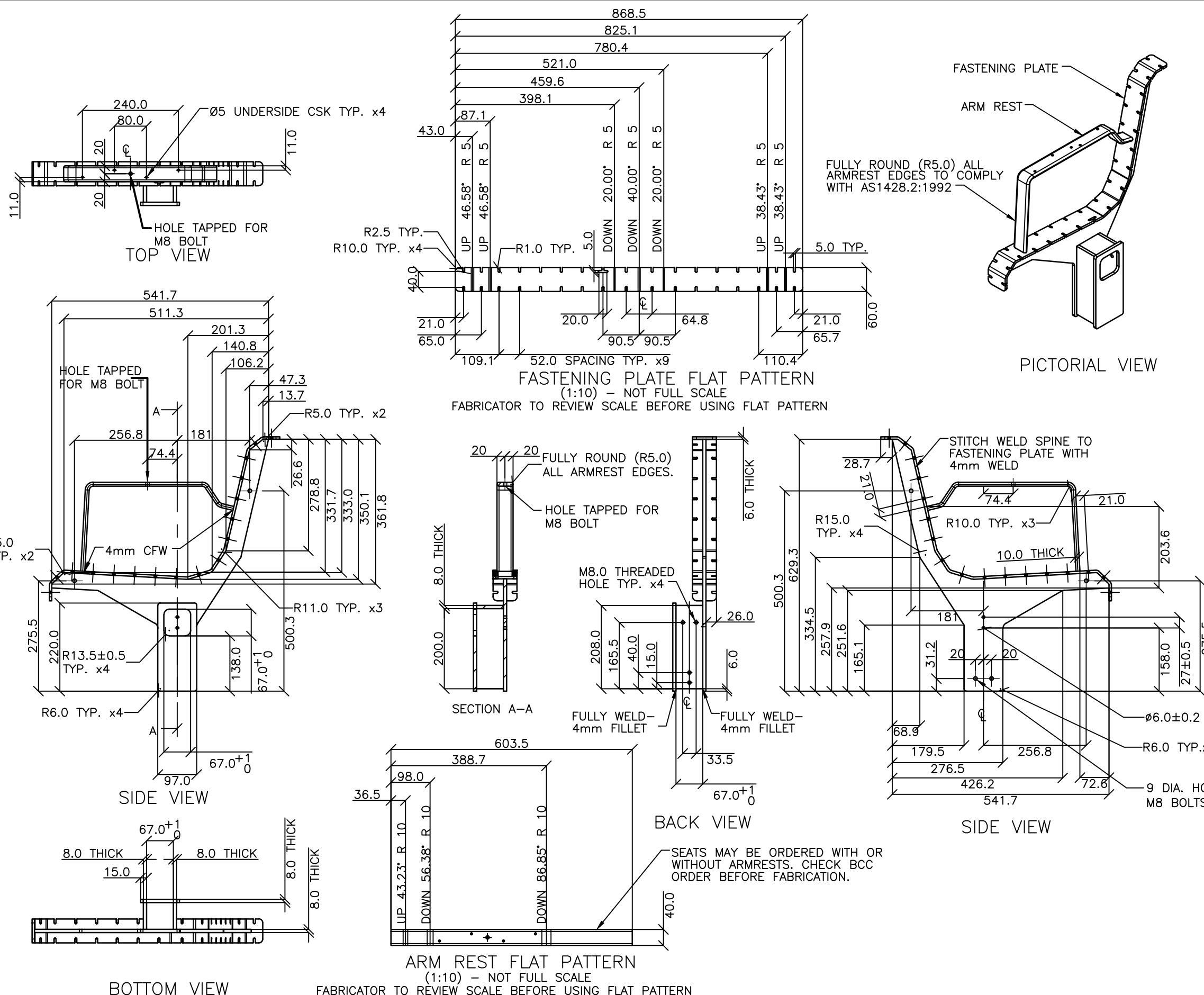
1. WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
2. PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
3. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
4. DRAWING TO AS1100 DRAWING STANDARDS.
5. 316 S.S AND 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



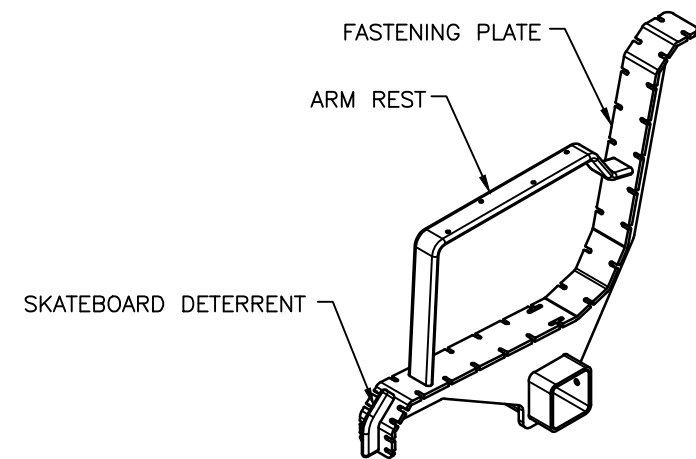
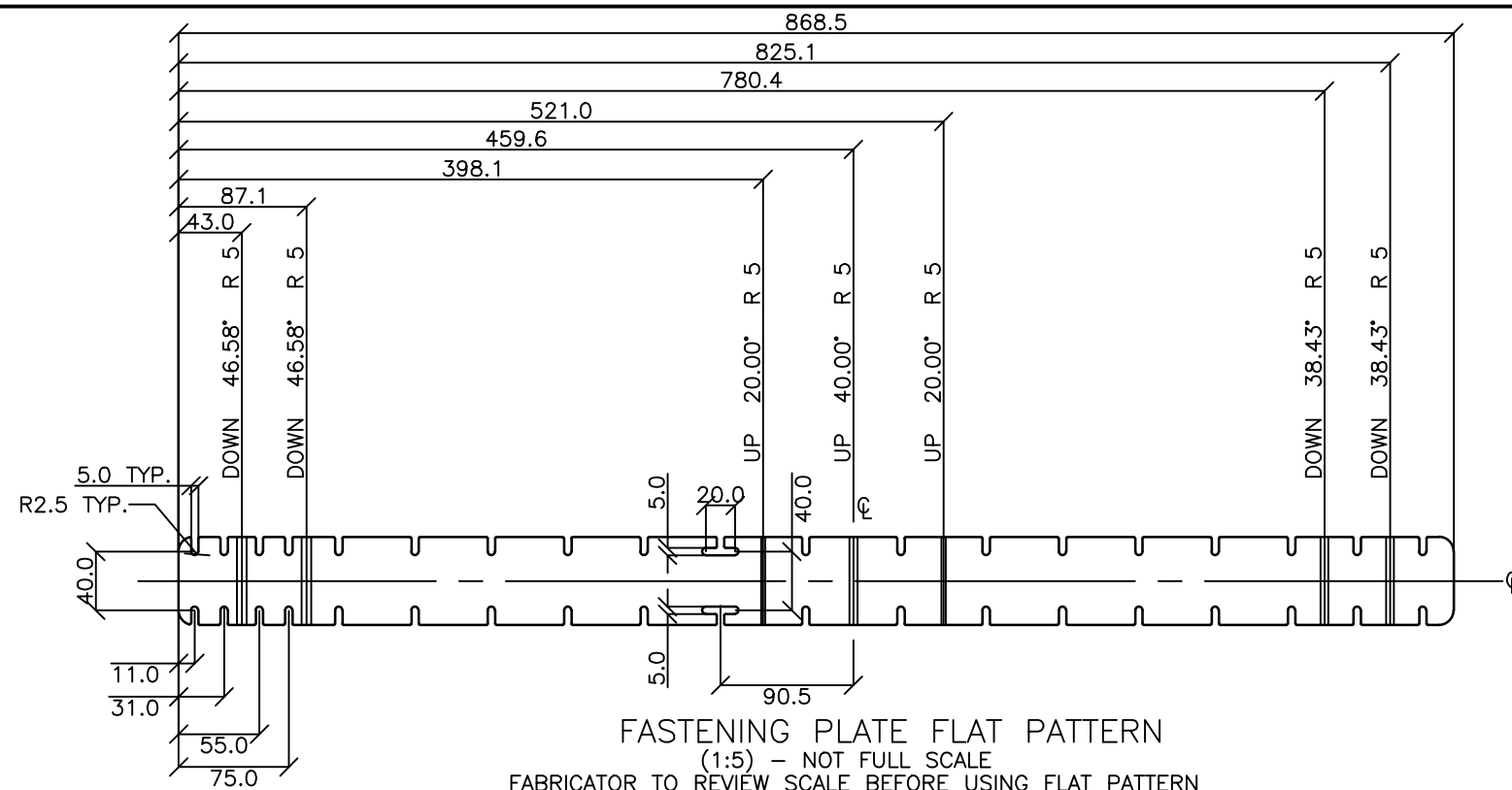
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	DRAWING AUTHORIZED FOR PUBLICATION INGA CONDORIC AUTHORIZED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12
D	Colour Finish Requirements Updated (Material Notes)	MAY '17	May '17	MAY '17	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	CHECKED	VM	DATE	APR '13
B	Advertising panel amendments	SEPT '14	SEPT '14	SEPT '14	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7202 (C) Public transport seat - Outer spine (right) - Sheet 3 of 10.dwg		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569-3		



## BRISBANE CITY COUNCIL STANDARD DRAWING

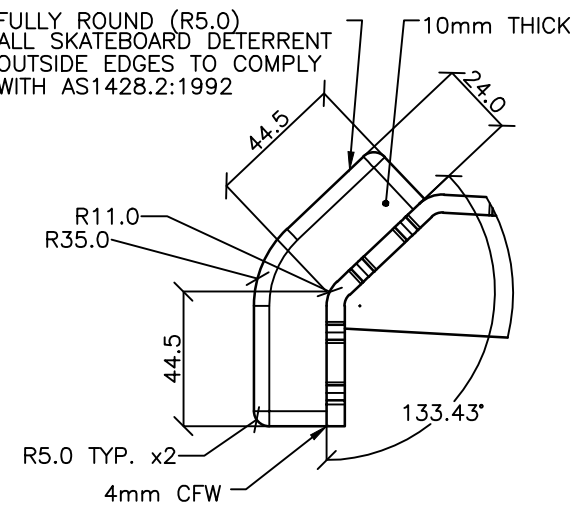
**PUBLIC TRANSPORT SEAT  
OUTER SPINE (RIGHT)**  
**SHEET 3 OF 10**

SCALE	NOT TO SCALE
DWG No.	<b>BSD-7202</b>
ORIGINAL SIZE	A3
REVISION	D

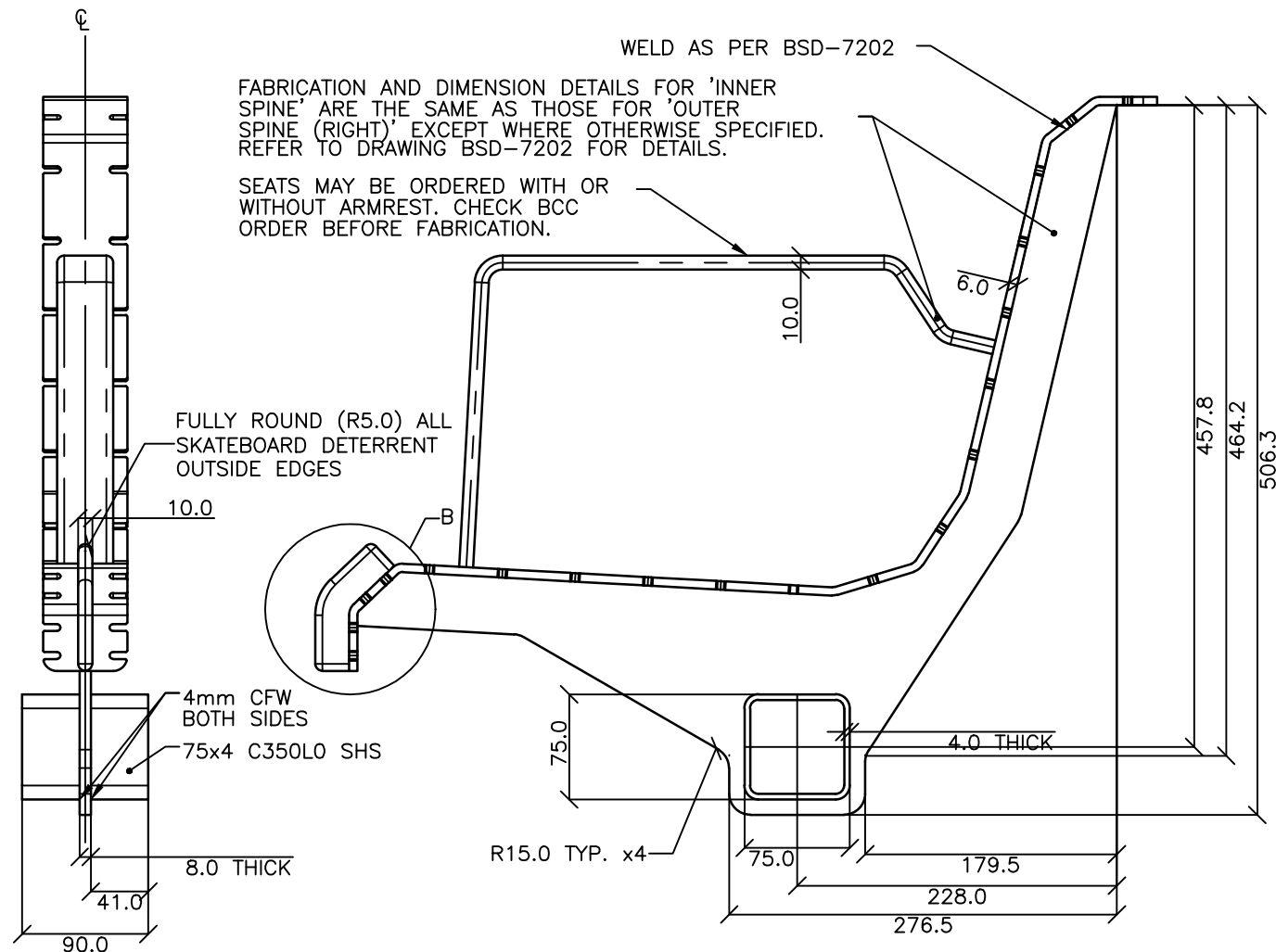


PICTORIAL VIEW

FULLY ROUND (R5.0)  
ALL SKATEBOARD DETERRENT  
OUTSIDE EDGES TO COMPLY  
WITH AS1428.2:1992

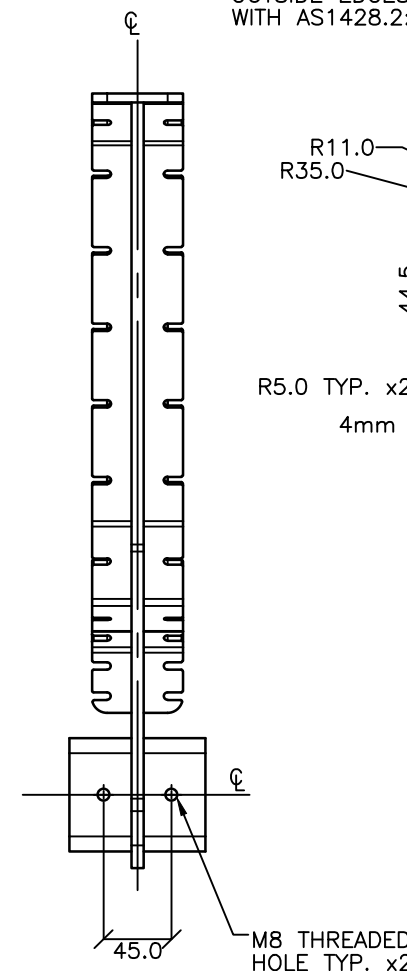


DETAIL B  
SKATEBOARD DETERRENT DETAIL  
SCALE 2 : 5



FRONT VIEW

SIDE VIEW



BACK VIEW

## STANDARDS

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

1. COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
6. AS1604.1-2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
7. AS4506 -2005, METAL FINISHING- THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING. POWDERCOATING TO BE IN ACCORDANCE TO AS4506-2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
9. WOOD TREATMENT - IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

## 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.
7. FABRICATION AND DIMENSION DETAILS FOR 'SEAT INNER SPINE' ARE THE SAME AS THOSE FOR 'SEAT OUTER SPINE (RIGHT)' EXCEPT WHERE OTHERWISE SPECIFIED. REFER TO DRAWING BSD-7202 FOR DETAILS.

## 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

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIE AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12
						DRAWN	AB	DATE	JUN '12
C	Colour Finish Requirement Updated (Material Notes)	MAY '17	MAY '17	MAY '17	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	CHECKED	VM	DATE	APR '13
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	DRAWING FILENAME	BSD-7202 (B) Public transport seat - Inner spine - Sheet 4 of 10.dwg		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL	ASSOCIATED PLANS	SUPERSEDES UMS-569-4		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN				



BRISBANE CITY COUNCIL STANDARD DRAWING			
PUBLIC TRANSPORT SEAT INNER SPINE SHEET 4 OF 10		SCALE NOT TO SCALE	
		DWG No. <b>BSD-7202</b>	
		ORIGINAL SIZE A3	REVISION C



STANDARDS

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

1. COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
6. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

NOTES

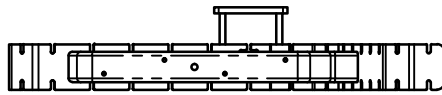
1. WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
2. PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
3. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
4. DRAWING TO AS1100 DRAWING STANDARDS.
5. 316 S.S AND 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.
7. THIS IS A LEFT HAND (MIRRORED) VERSION OF PART 'SEAT OUTER SPINE (RIGHT)' – REFER TO DRAWING BSD-7202 FOR FABRICATION AND DIMENSION DETAILS.

MATERIAL

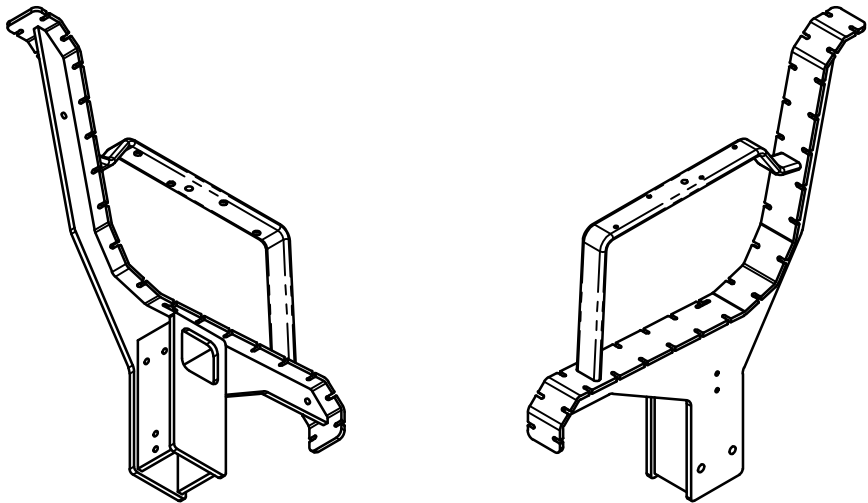
1. MATERIAL: MILD STEEL
2. COLOUR: DULUX 'METROPOLIS STORM PEARL' OR APPROVED EQUIVALENT
3. FINISH: GALVANISED AND POWDER COATED

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

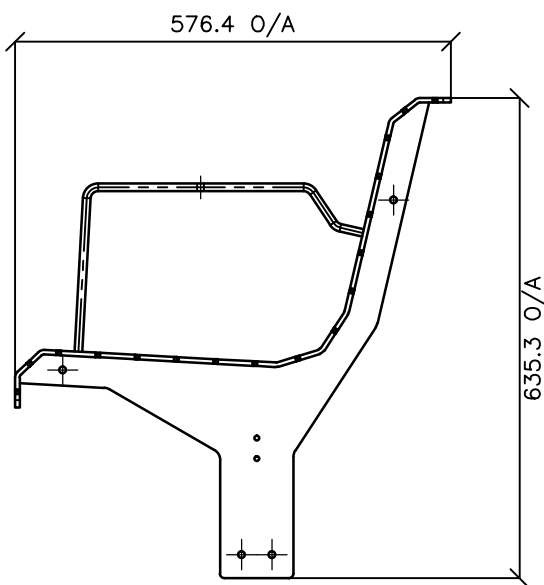
NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 28/ 6 /12



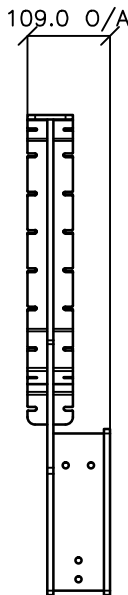
TOP VIEW



PICTORIAL VIEWS

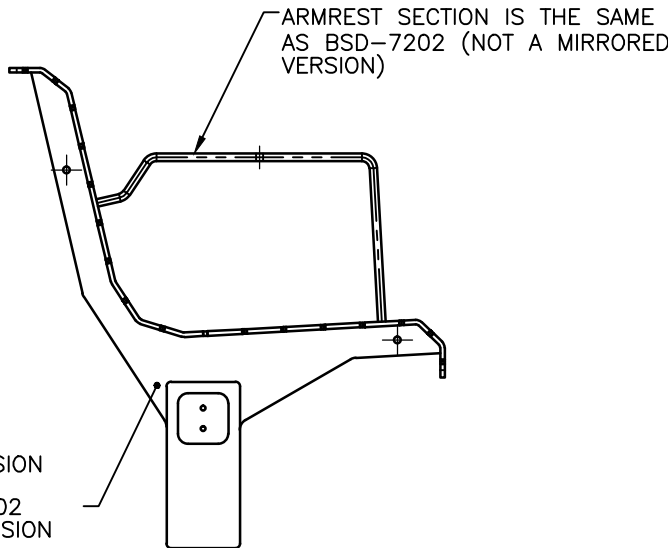


RIGHT SIDE VIEW

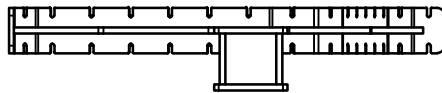


BACK VIEW


LEFT HAND (MIRRORED) VERSION  
OF 'OUTER SPINE (RIGHT)',  
REFER TO DRAWING BSD-7202  
FOR FABRICATION AND DIMENSION  
DETAILS.



LEFT SIDE VIEW



BOTTOM VIEW

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
D	Colour Finish requirements Updated (Material Notes)	MAY '17	MAY '17	MAY '17	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	DRAWN	AB	DATE	JUN '12		SCALE	NOT TO SCALE		
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13		DWG No.	BSD-7202		
B	Advertising panel amendments	SEPT '14	SEPT '14	SEPT '14	VICKI MARTIN SIGNATURE ON ORIGINAL PRINCIPAL PLANNING OFFICER URBAN DESIGN	DRAWING FILENAME	BSD-7202 (C) Public transport seat - Outer spine (left) - Sheet 5 of 10.dwg				ORIGINAL SIZE	A3	REVISION	D
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-569-5				SHEET 5 OF 10			
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE										



# STANDARDS

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

1. COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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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5. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
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7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING. POWDERCOATING TO BE IN ACCORDANCE TO AS4506-2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
9. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

# 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.
7. SEAT FOOT IS THE SAME PART AS BENCH FOOT (REFER TO DRAWING BSD-7203)

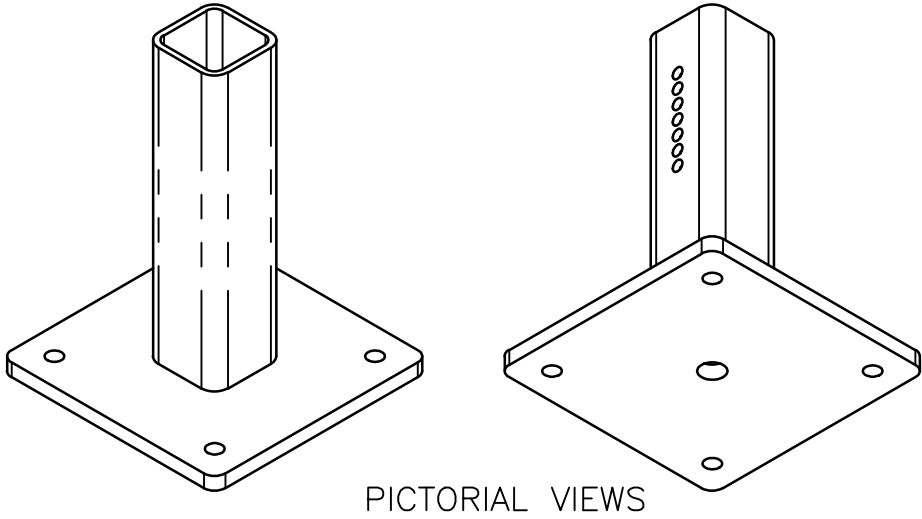
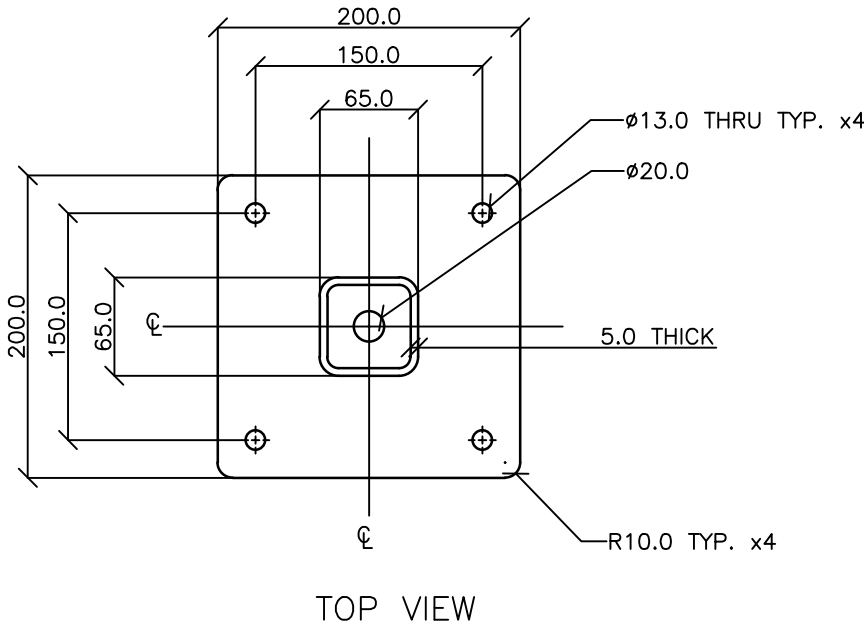
# MATERIAL

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

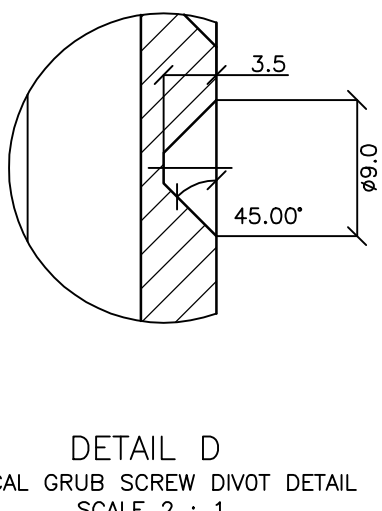
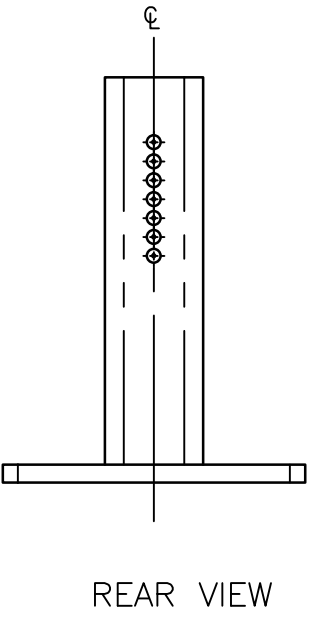
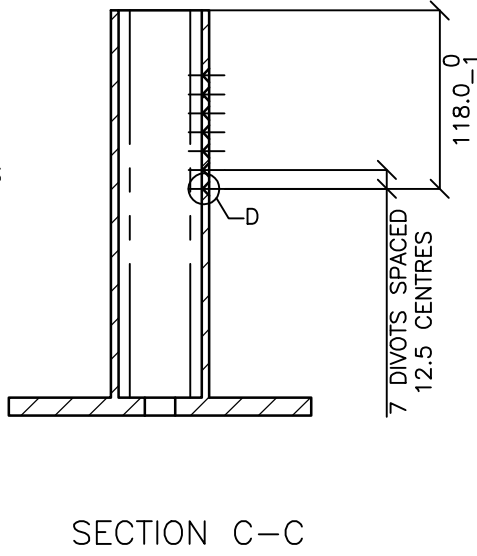
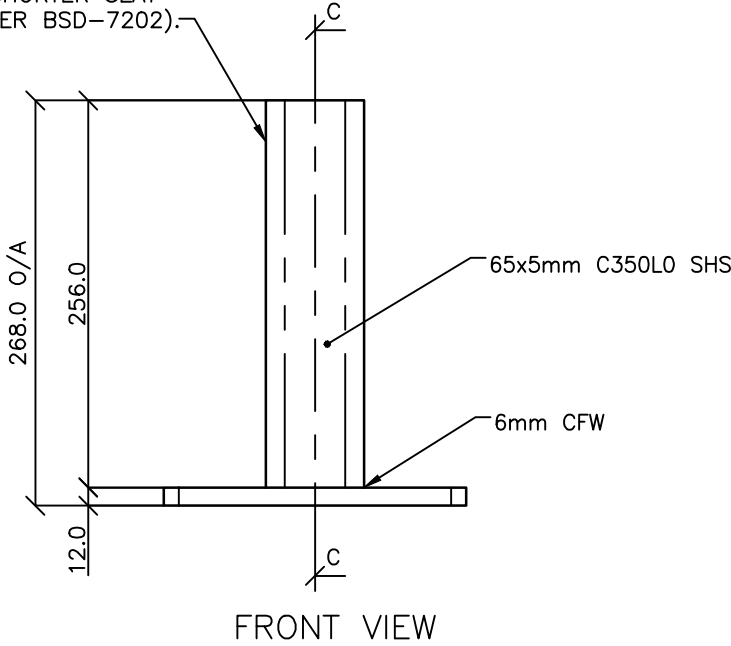
## STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE


NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL DATE: 28/ 6 /12



LEG LENGTH SUITS 450mm  
HIGH SEAT. LEG TO BE DOCKED  
TO LENGTH FOR SHORTER SEAT  
INSTALLATION (REFER BSD-7202).



					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING	
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		PUBLIC TRANSPORT SEAT FOOT	
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13		SHEET 6 OF 10	
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7202 (B) Public transport seat - Foot - Sheet 6 of 10.dwg				ORIGINAL SIZE A3	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569-6				REVISION c	
C	Colour Finish Requirement Updated (Material Notes)	MAY '17	MAY '17	MAY '17							SCALE NOT TO SCALE	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16							BSD-7202	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14								

STANDARDS

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

1. COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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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5. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
6. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING.
9. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

NOTES

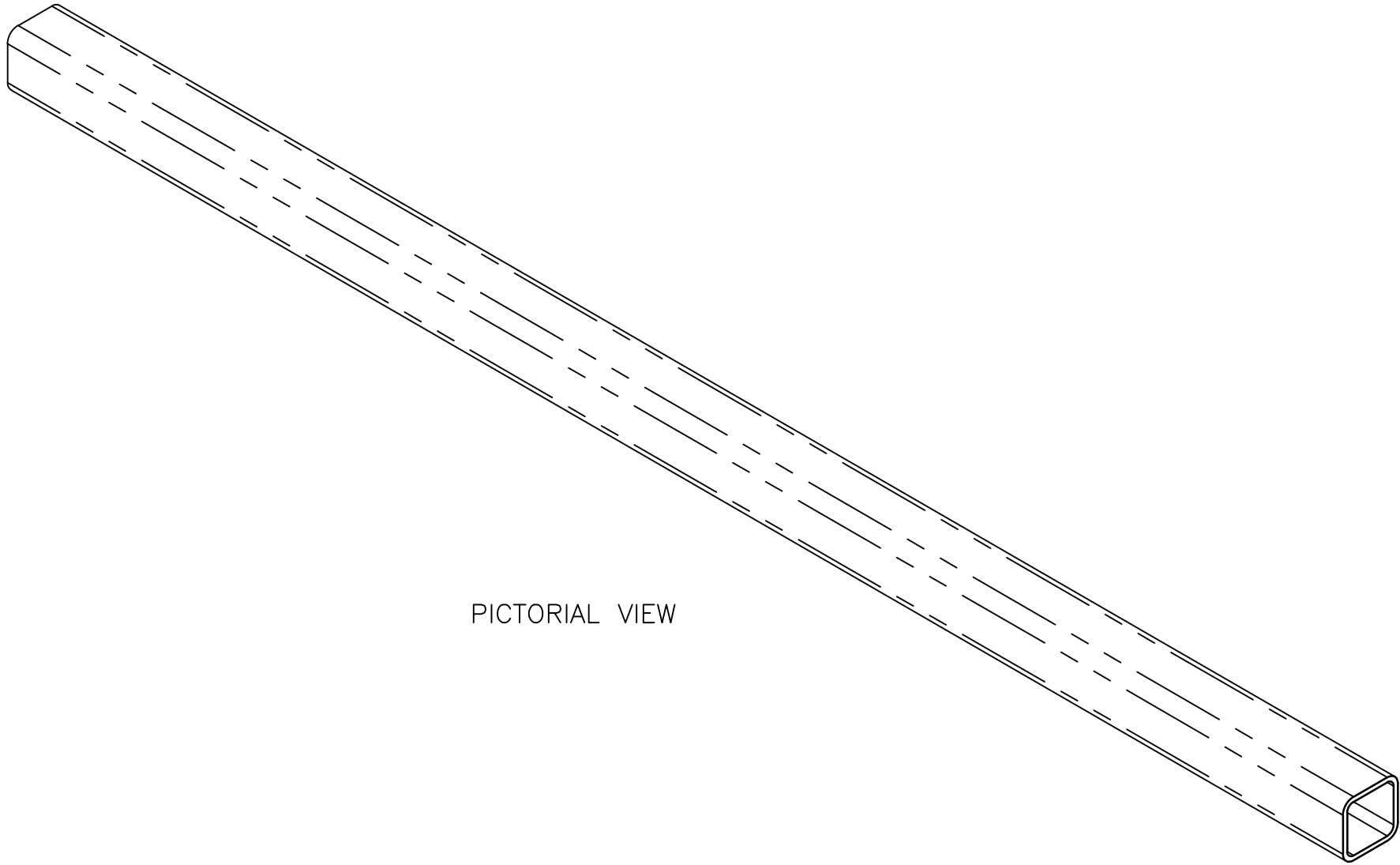
1. WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
2. PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
3. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
4. DRAWING TO AS1100 DRAWING STANDARDS.
5. 316 S.S AND 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.
7. SEAT RAIL IS THE SAME PART AS BENCH RAIL (REFER TO DRAWING BSD-7203)

MATERIAL

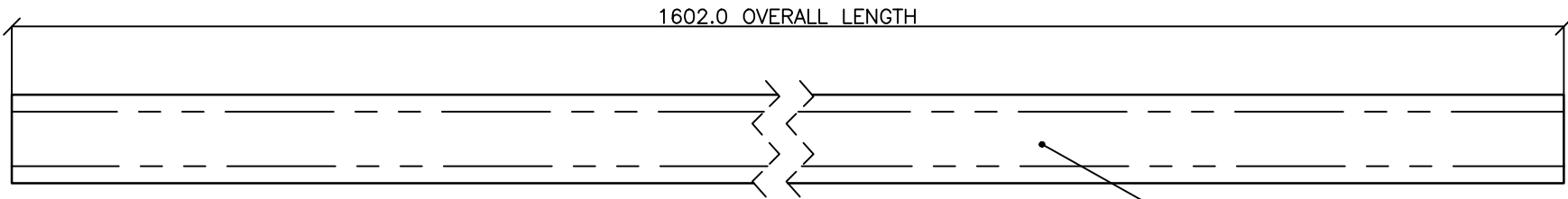
1. MATERIAL: C350L0 SHS
2. COLOUR: DULUX 'METROPOLIS STORM PEARL' OR APPROVED EQUIVALENT
3. FINISH: GALVANISED AND POWDER COATED

**STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE**

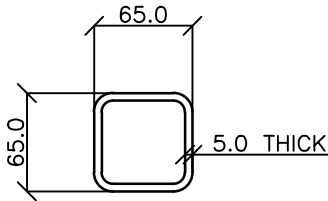
NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 28/6/12




PICTORIAL VIEW



FRONT VIEW



RIGHT VIEW

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
D	Colour Finish Requirements Updated (Material Notes)	MAY '17	MAY '17	MAY '17	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	DRAWN	AB	DATE	JUN '12		PUBLIC TRANSPORT SEAT RAIL		
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13		SHEET 7 OF 10		
B	Advertising panel amendments	SEPT '14	SEPT '14	SEPT '14		DRAWING FILENAME	BSD-7202 (C) Public transport seat - Rail - Sheet 7 of 10.dwg				SCALE NOT TO SCALE		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL	ASSOCIATED PLANS	SUPERSEDES UMS-569-7				DWG No. BSD-7202		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN						ORIGINAL SIZE A3		
											REVISION D		

STANDARDS

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

1. COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
2. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
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7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING.
9. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

NOTES

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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  $\pm$  1.5mm UNLESS OTHERWISE SPECIFIED.
7. SEAT LONG SLAT IS THE SAME PART AS BENCH LONG SLAT (REFER TO DRAWING BSD-7203)
8. SEAT SHORT SLAT IS THE SAME PART AS BENCH SHORT SLAT (REFER TO DRAWING BSD-7203)
9. SEAT ARM REST SLAT IS THE SAME PART AS BENCH ARM REST SLAT (REFER TO DRAWING BSD-7203)


MATERIAL

1. MATERIAL: HARDWOOD
2. COLOUR: JARRAH STAIN
3. FINISH: SMOOTH + WATER BASED FURNITURE OIL

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 CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		PUBLIC TRANSPORT SEAT TIMBER SLATS SHEET 8 OF 10	SCALE NOT TO SCALE		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	CHECKED	VM	DATE	APR '13			DWG No.	BSD-7202	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7202 (B) Public transport seat - Timber slats - Sheet 8 of 10.dwg					ORIGINAL SIZE	REVISION	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569-8				A3	B		

# STANDARDS

DESIGNED IN ACCORDANCE WITH, AND  
FABRICATION TO MEET THE FOLLOWING  
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5. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
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6. ALL TOLERANCES  $\pm 1.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.
7. SEAT LOGO BADGE IS THE SAME PART AS BENCH LOGO BADGE (REFER TO DRAWING BSD-7203)

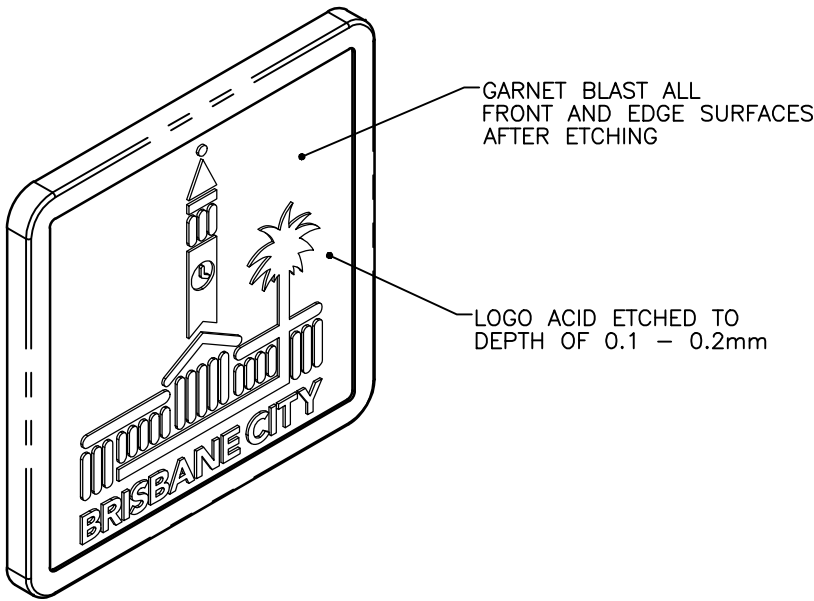
# MATERIAL

1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: GARNET BLASTED

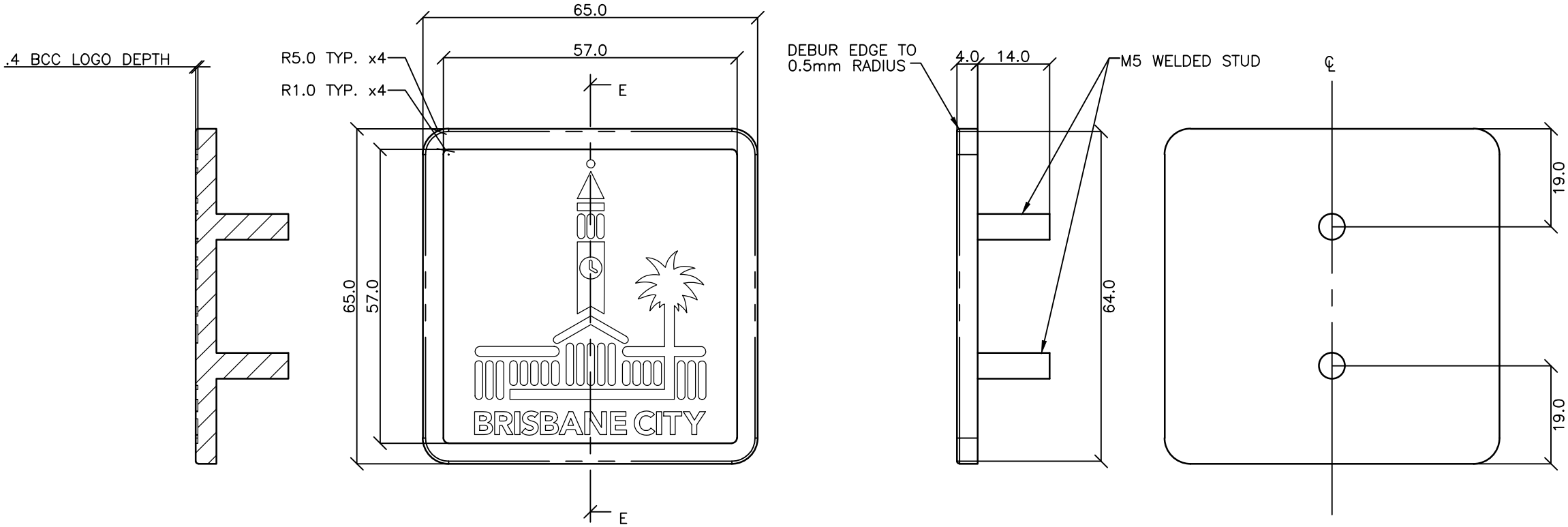
**STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE**

NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL DATE: 28/ 6 /12



PICTORIAL VIEW




SECTION E-E

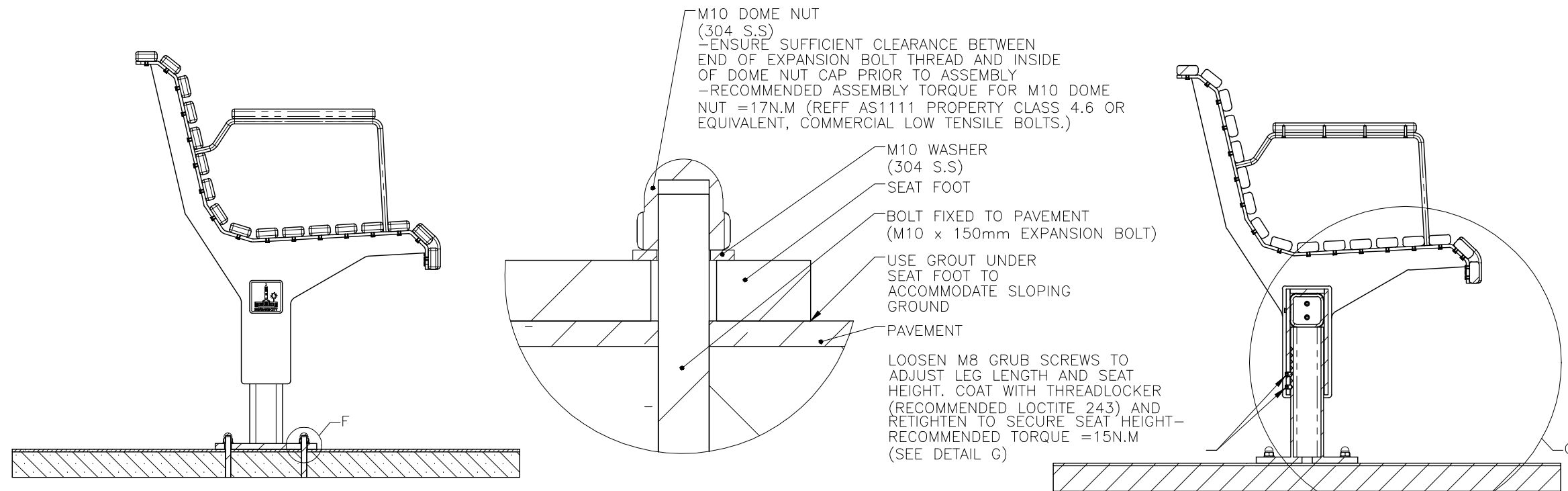
FRONT VIEW

SIDE VIEW

BACK VIEW

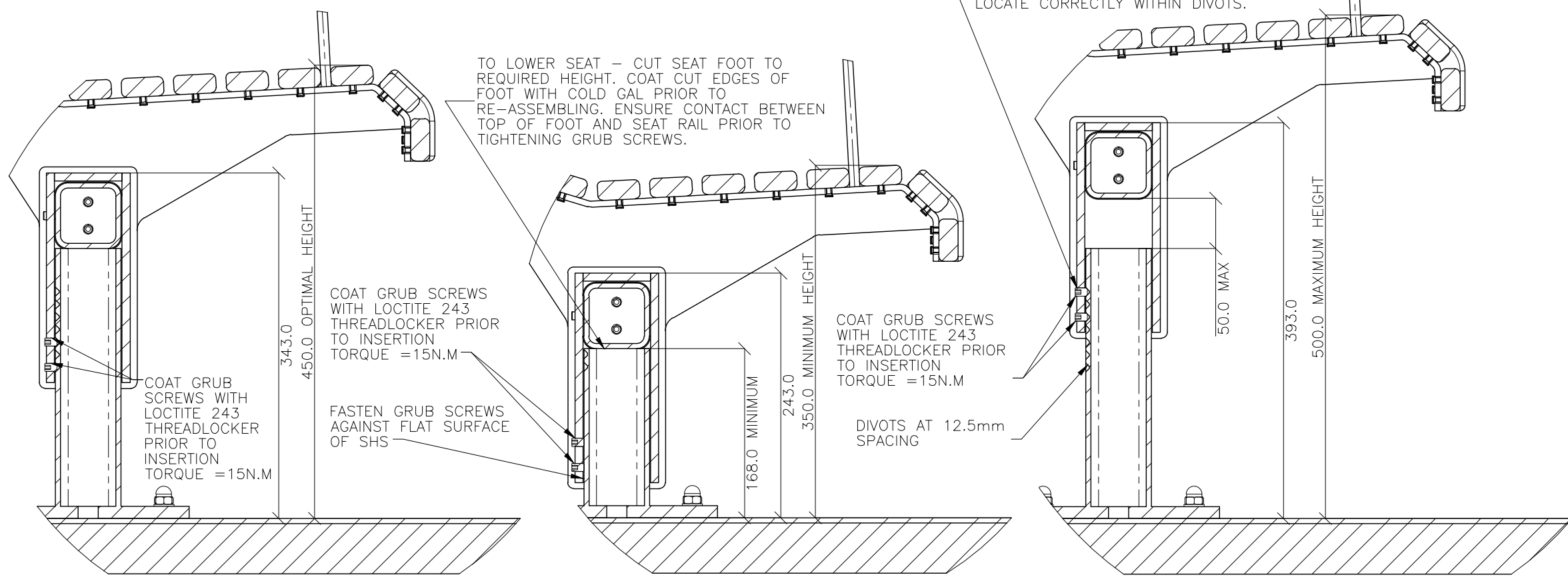
					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		PUBLIC TRANSPORT SEAT LOGO BADGE SHEET 9 OF 10	SCALE	NOT TO SCALE	
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13			DWG No.	BSD-7202	
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7202 (B) Public transport seat - Logo badge - Sheet 9 of 10.dwg				ORIGINAL SIZE	A3	REVISION	C
					PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569-9							
C	Logo Badge Acid Etch Depth Amended	MAY '17	MAY '17	MAY '17										
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										





SECTION VIEW OF INSTALLATION

DETAIL F  
INSTALLATION DETAIL  
SCALE 1 : 1



DETAIL G  
HEIGHT ADJUSTMENT DETAIL  
TO ACCOMMODATE SLOPING SURFACES  
SCALE 1 : 5

STANDARDS

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

1. COMPLIANT WITH AS1428.2:1992, CLAUSE 27.2 SEATING IN PEDESTRIAN AREAS.
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. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
6. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
7. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
8. AS4680:2006, HOT DIP GALVANISING.
9. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
10. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)


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.

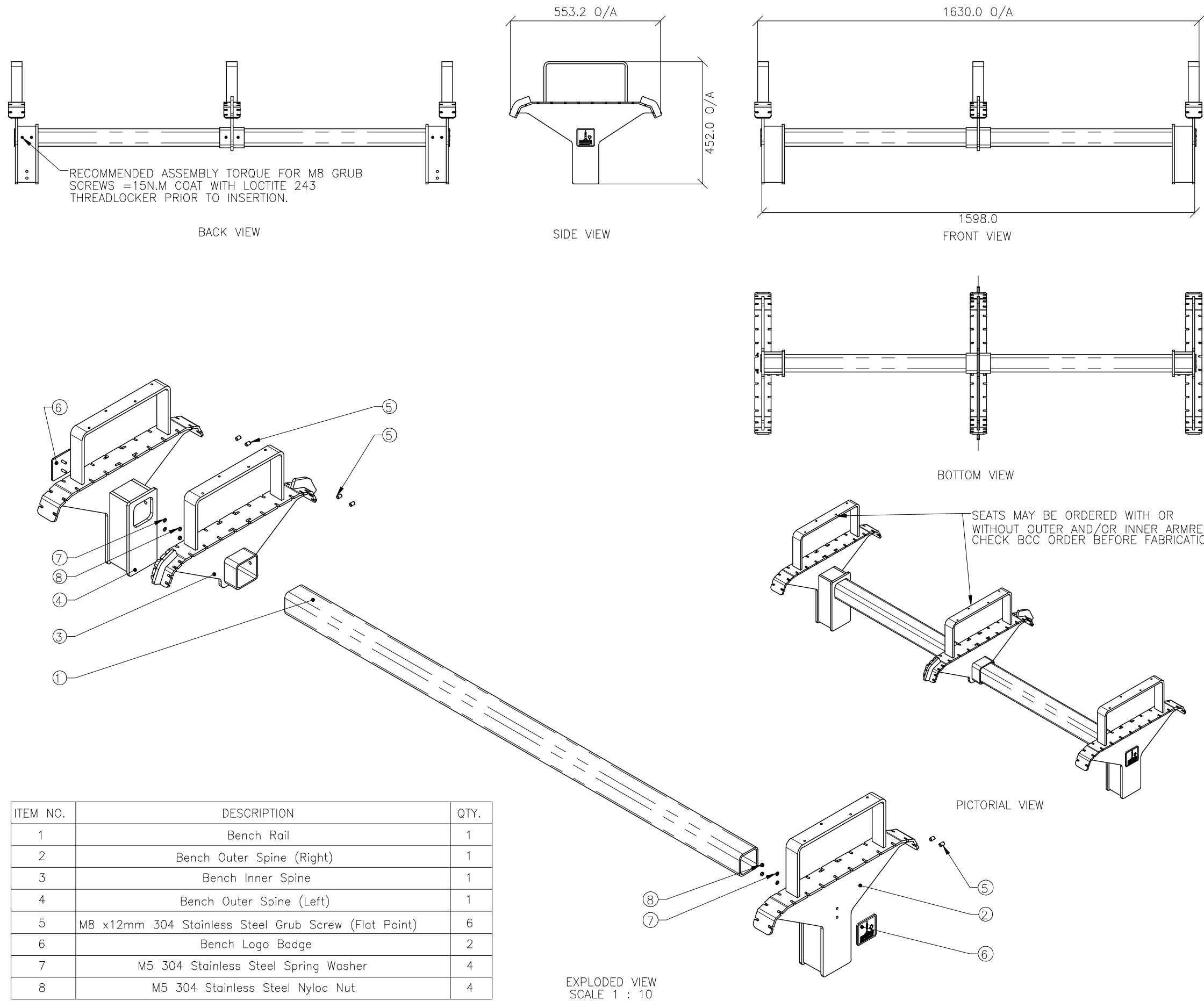
MATERIAL

1. MATERIAL: 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: QN\_ORIGINAL DATE: 28/ 6 / 12

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIE AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
							DRAWN	AB	DATE		JUN '12	SCALE NOT TO SCALE	
						ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	CHECKED	VM	DATE		APR '13	DWG No. <b>BSD-7202</b>	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		DESIGN APPROVED	DRAWING FILENAME	BSD-7202 (B) Public transport seat - Installation - Sheet 10 of 10.dwg			ORIGINAL SIZE A3		
A	ORIGINAL ISSUE	OCT '13	OCT '13	OCT '13	VICKI MARTIN SIGNATURE ON ORIGINAL	ASSOCIATED PLANS	SUPERSEDES UMS-569-10				REVISION B		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN						PUBLIC TRANSPORT SEAT INSTALLATION SHEET 10 OF 10		





STANDARDS

- DESIGNED IN ACCORDANCE WITH, AND FABRICATION TO MEET THE FOLLOWING STANDARDS:
- 1. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
  - 2. AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION, 1994.
  - 3. GUIDE TO ENGINEERING PRACTICE, 'PEDESTRIANS', PART 13, AUSTRROADS.
  - 4. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
  - 5. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
  - 6. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
  - 7. AS4680:2006, HOT DIP GALVANISING.
  - 8. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
  - 9. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

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

ITEM NO.	DESCRIPTION	QTY.
1	Bench Rail	1
2	Bench Outer Spine (Right)	1
3	Bench Inner Spine	1
4	Bench Outer Spine (Left)	1
5	M8 x12mm 304 Stainless Steel Grub Screw (Flat Point)	6
6	Bench Logo Badge	2
7	M5 304 Stainless Steel Spring Washer	4
8	M5 304 Stainless Steel Nyloc Nut	4

EXPLODED VIEW  
SCALE 1 : 10

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIE AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		BENCH FRAME ASSEMBLY SHEET 2 OF 10	SCALE NOT TO SCALE		
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13			DWG No.	BSD-7203	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7203 (B) Bench - Frame assembly - Sheet 2 of 10.dwg				ORIGINAL SIZE	REVISION		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-564-2				A3	B		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN									



# STANDARDS

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

1. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
2. AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION, 1994.
3. GUIDE TO ENGINEERING PRACTICE, 'PEDESTRIANS', PART 13, AUSTRROADS.
4. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
5. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
6. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
7. AS4680:2006, HOT DIP GALVANISING.
8. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
9. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

# 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.

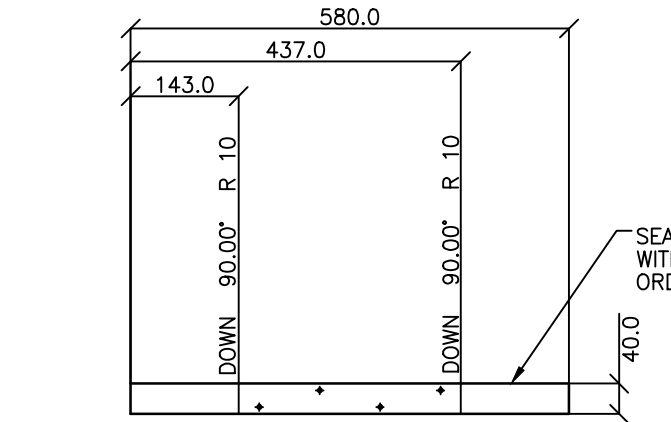
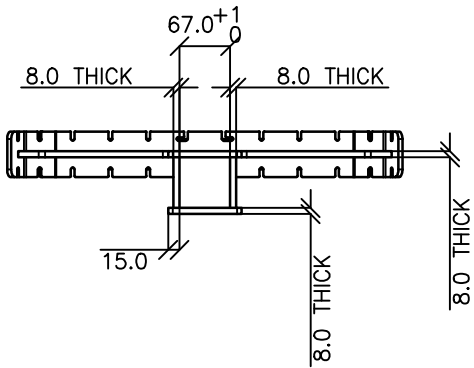
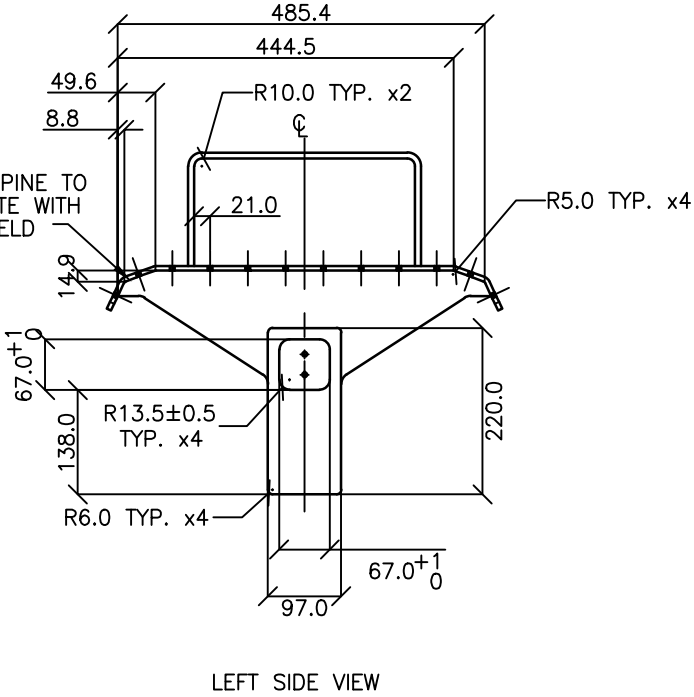
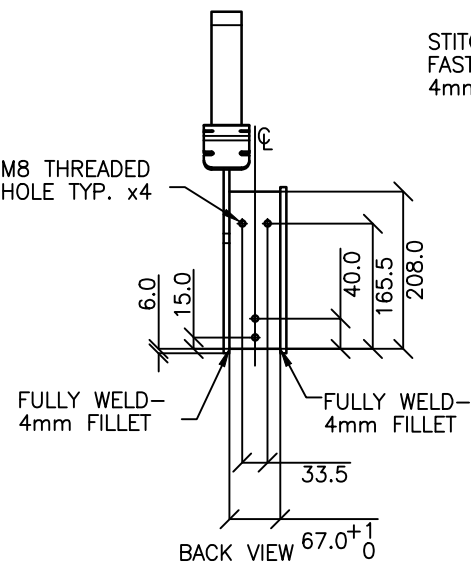
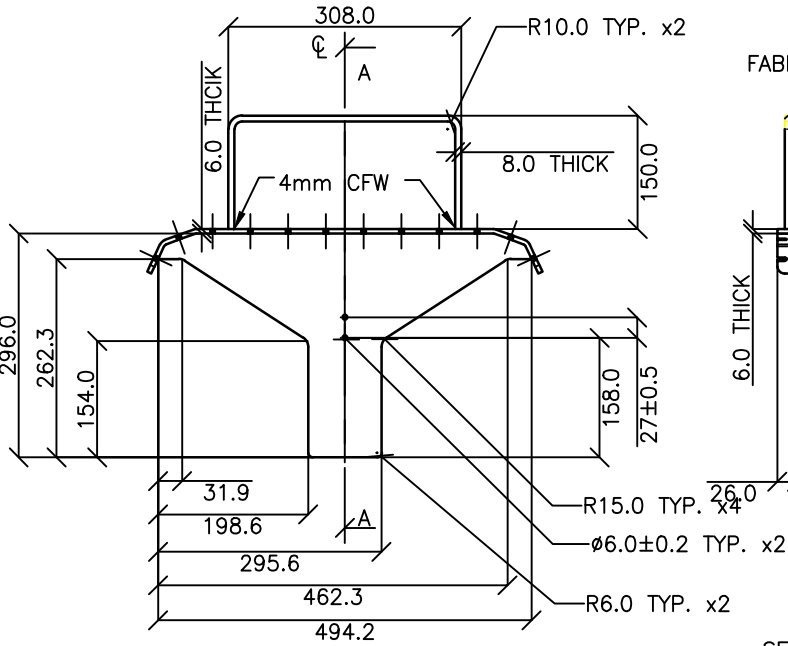
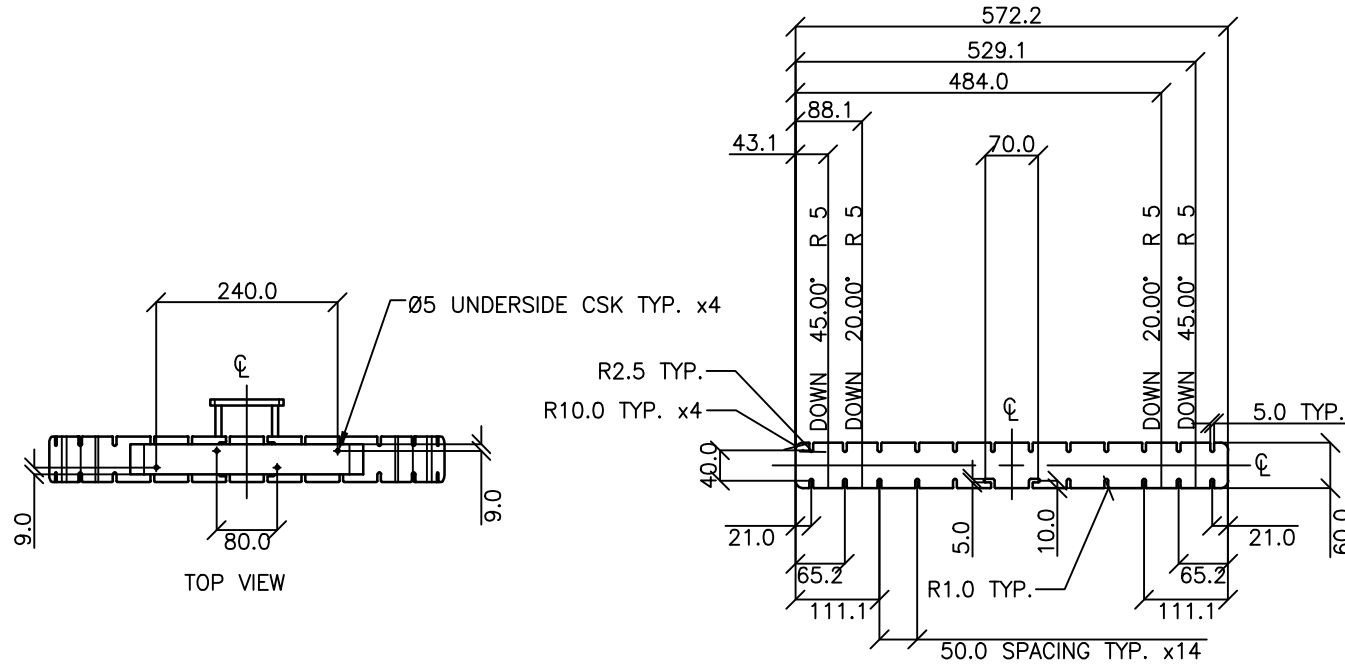
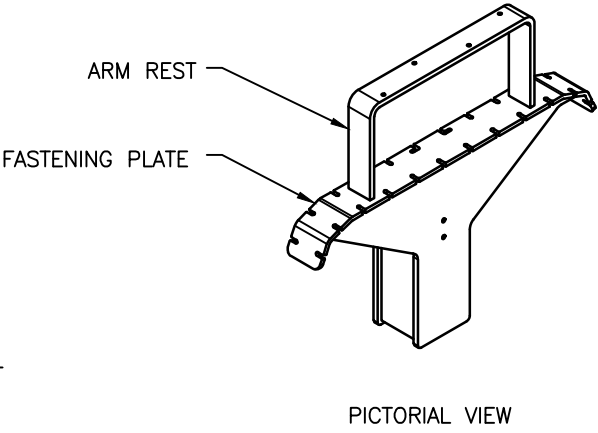
# MATERIAL

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

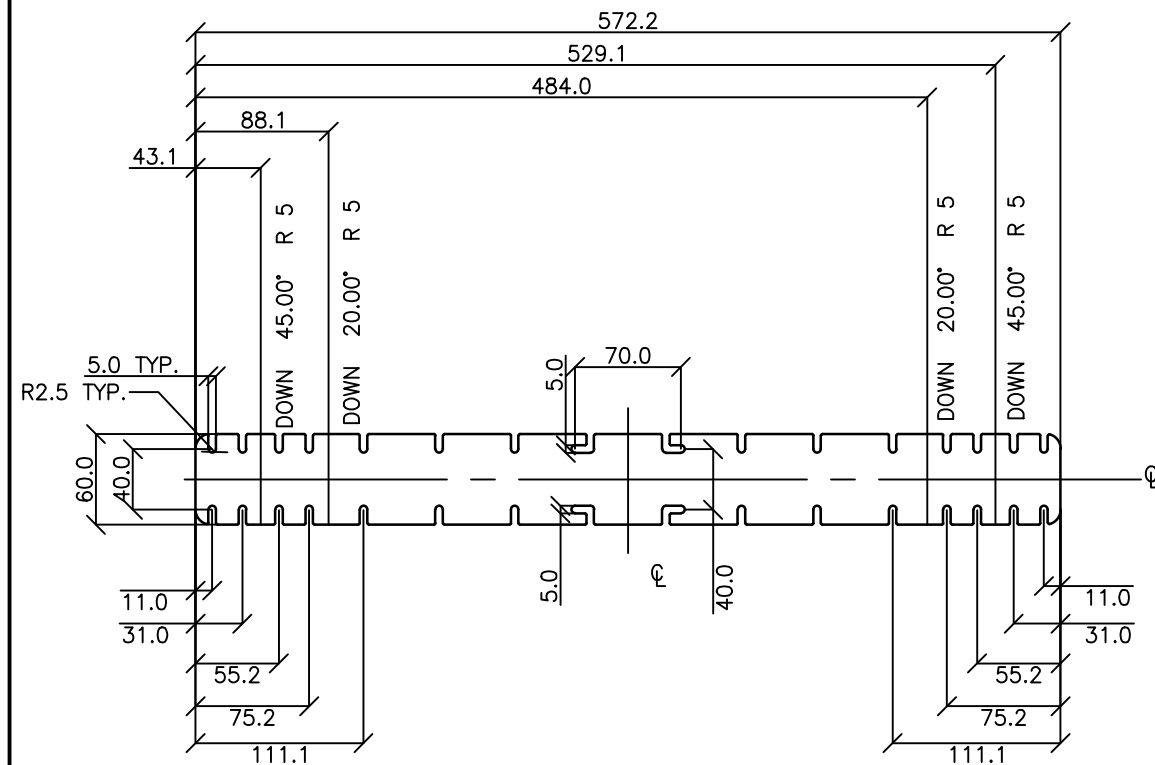
SIGNATURE: ON ORIGINAL DATE: 28/6/12



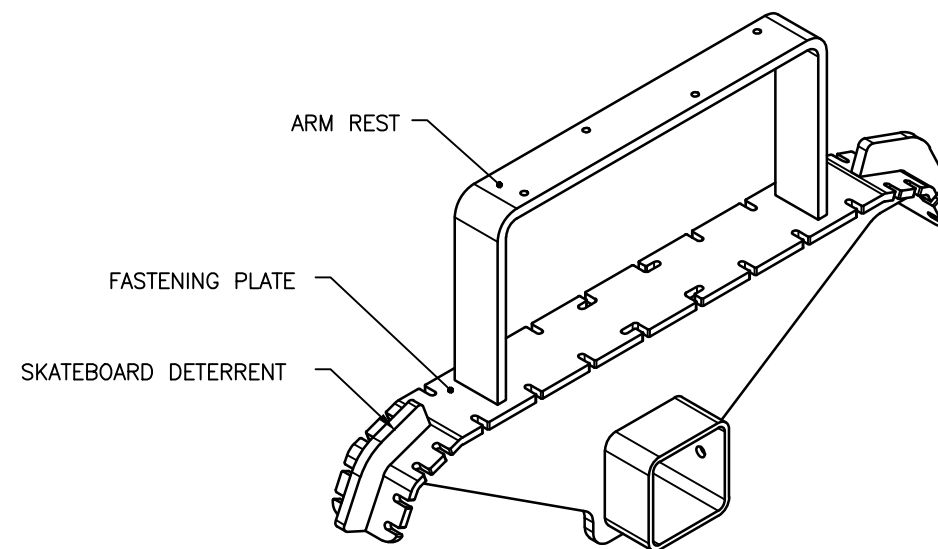
SEATS MAY BE ORDERED WITH OR WITHOUT ARMRESTS. CHECK BCC ORDER BEFORE FABRICATION.

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		<div>BENCH OUTER SPINE (RIGHT) SHEET 3 OF 10</div>	SCALE NOT TO SCALE		
C	Colour Finish Requirements Updated (Material Notes)	MAY '17	MAY '17	MAY '17	DESIGN APPROVED  VICKI MARTIN SIGNATURE ON ORIGINAL	CHECKED	VM	DATE	APR '13			Dwg No.	BSD-7203	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		DRAWING FILENAME	BSD-7203-3 - Bench - Outer spine (right) - Sheet 3 of 10.dwg					ORIGINAL SIZE	REVISION	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-564-3					A3	C	

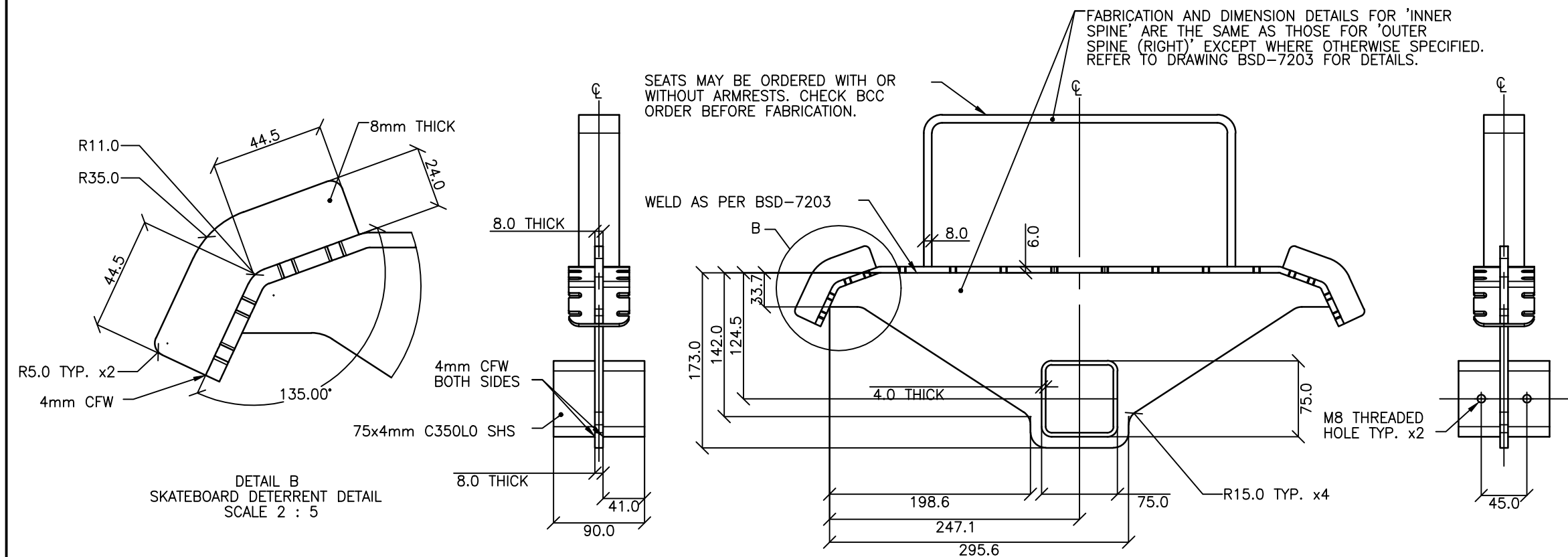




FASTENING PLATE FLAT PATTERN  
(1:5) – NOT FULL SCALE  
FABRICATOR TO REVIEW SCALE BEFORE USING FLAT PATTERN



PICTORIAL VIEW



SIDE VIEW

## STANDARDS

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

1. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
2. AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION, 1994.
3. GUIDE TO ENGINEERING PRACTICE, 'PEDESTRIANS', PART 13, AUSTRROADS.
4. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
5. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
6. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
7. AS4680:2006, HOT DIP GALVANISING. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
9. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

## 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.
7. FABRICATION AND DIMENSION DETAILS FOR 'BENCH INNER SPINE' ARE THE SAME AS THOSE FOR 'BENCH OUTER SPINE (RIGHT)' EXCEPT WHERE OTHERWISE SPECIFIED. REFER TO DRAWING BSD-7203 FOR DETAILS.


## 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

					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014</div> <div>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	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
						DRAWN	AB	DATE	JUN '12		SCALE NOT TO SCALE		
C	Colour Finish Requirements Updated (Material Notes)	MAY '17	MAY '17	MAY '17		CHECKED	VM	DATE	APR '13		DWG No. BSD-7203		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		DRAWING FILENAME	BSD-7203 (B) Bench - Inner spine - Sheet 4 of 10.dwg				ORIGINAL SIZE A3		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-564-4				REVISION C		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE					BENCH INNER SPINE SHEET 4 OF 10				

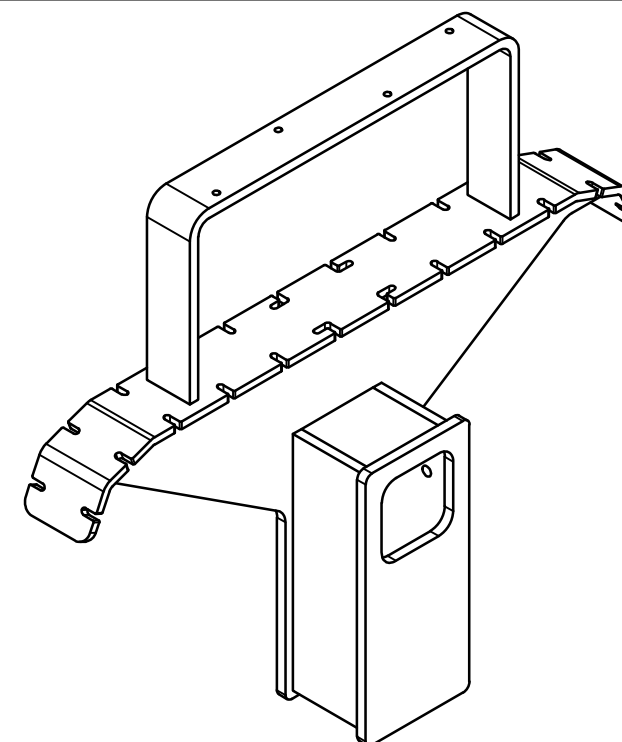
DESIGNED IN ACCORDANCE WITH, AND  
FABRICATION TO MEET THE FOLLOWING  
STANDARDS:

1. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
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5. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
6. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
7. AS680:2006, HOT DIP GALVANISING.
8. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
9. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

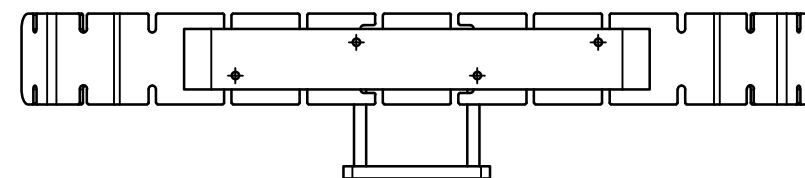
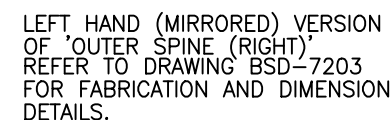
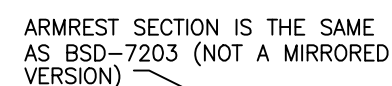
1. WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
2. PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
3. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
4. DRAWING TO AS1100 DRAWING STANDARDS.
5. 316 S.S AND 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.
7. THIS IS A LEFT HAND (MIRRORED) VERSION OF PART 'BENCH OUTER SPINE (RIGHT)' – REFER TO DRAWING BSD-7203 FOR FABRICATION AND DIMENSION DETAILS.

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

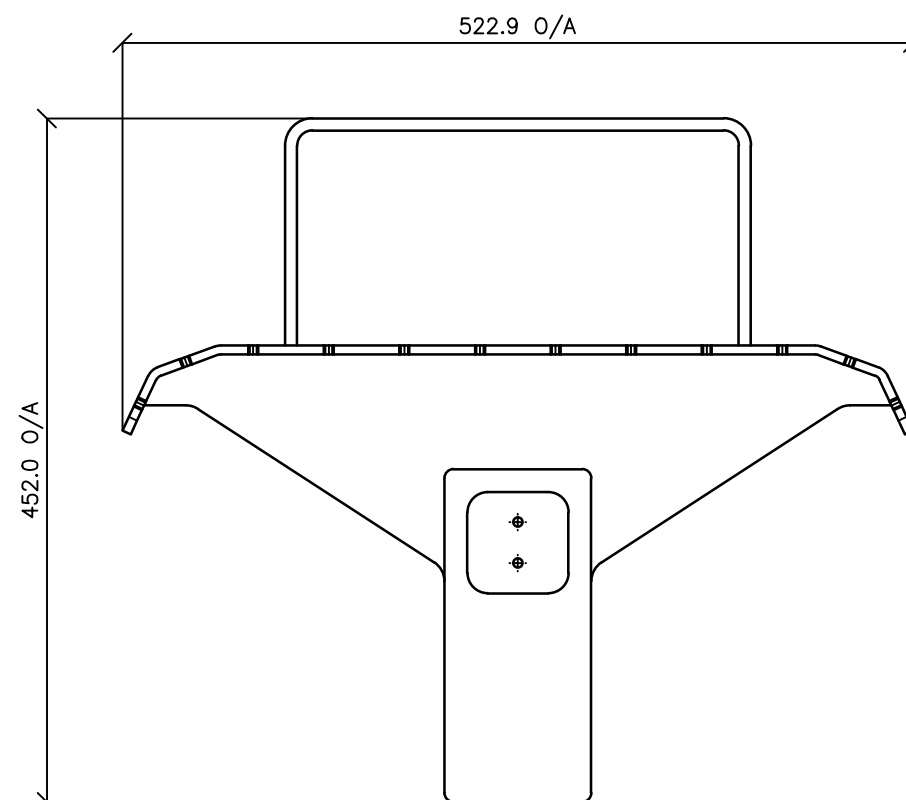
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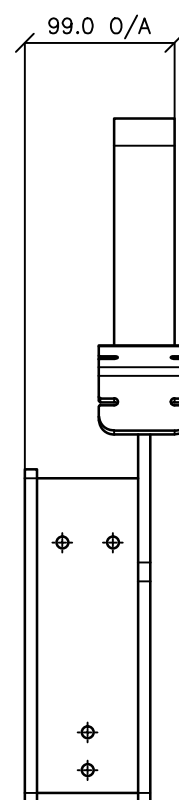
PICTORIAL VIEW



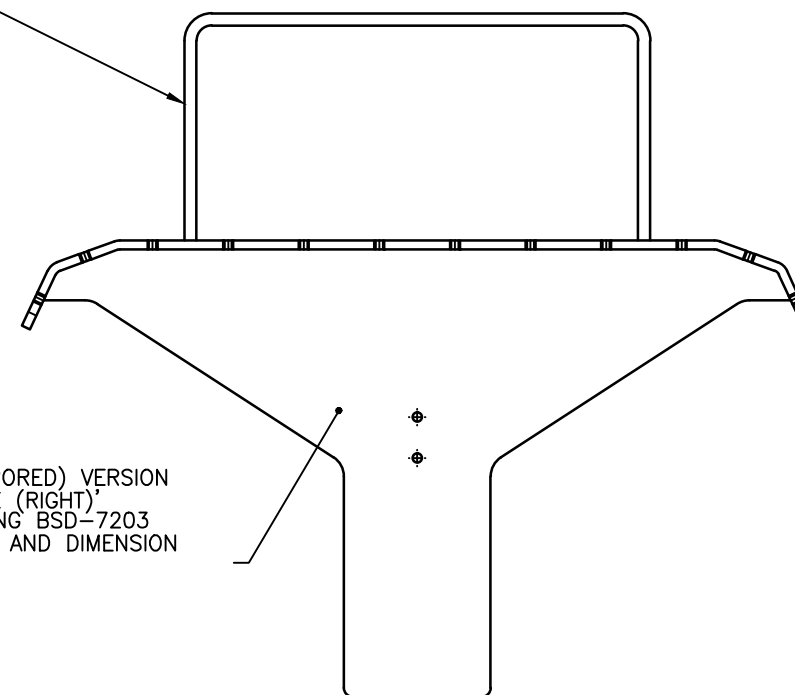
TOP VIEW



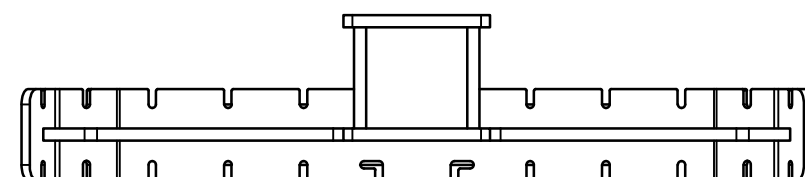
RIGHT SIDE VIEW




BACK VIEW



LEFT SIDE VIEW



BOTTOM VIEW

					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORIZED 15/04/2014</div> <div>--- 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	FORMZ00 DESIGN	DATE	JUN '12		<div>BRISBANE CITY COUNCIL STANDARD DRAWING</div> <div>BENCH OUTER SPINE (LEFT) SHEET 5 OF 10</div>			SCALE NOT TO SCALE			
C	Colour Finish Requirements Updated (Material Notes)	MAY '17	MAY '17	MAY '17		DRAWN	AB	DATE	JUN '12					Dwg No.	BSD-7203		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13					ORIGINAL SIZE	REVISION		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-7203 (B) Bench - Outer spine (left) - Sheet 5 of 10.dwg							A3	C		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS-564-5										

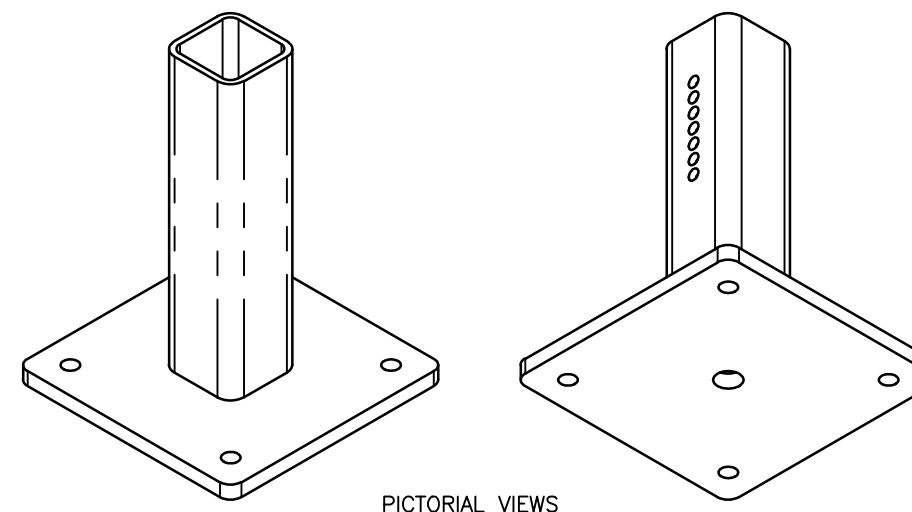
DESIGNED IN ACCORDANCE WITH, AND  
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5. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
6. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
7. AS4680:2006, HOT DIP GALVANISING.
8. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
9. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

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.
7. BENCH FOOT IS THE SAME PART AS SEAT FOOT (REFER TO DRAWING BSD-7201 AND BSD-7202)

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



FRONT VIEW

268.0 O/A

256.0

12.0


65x5mm C350LO SHS

6mm CFW

C

C

Technical drawing of a mechanical part showing a cross-section with a 45.00 degree chamfer and a 3.5 dimension.

					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIE AUTHORISED 15/04/2014</div> <div>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	FORMZ00 DESIGN	DATE	JUN '12		<div>BRISBANE CITY COUNCIL STANDARD DRAWING</div> <div>BENCH FOOT SHEET 6 OF 10</div>		SCALE NOT TO SCALE		
C	Colour Finish Requirement Updated (Material Notes)	MAY '17	MAY '17	MAY '17		DRAWN	AB	DATE	JUN '12				DWG No.	BSD-7203	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13				ORIGINAL SIZE	REVISION	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-7203 (B) Bench - Foot - Sheet 6 of 10.dwg						A3	C	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS-564-6								

STANDARDS

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

- 1. AS1627.4 METAL FINISHING –  
PREPARATION AND PRE-TREATMENT OF  
SURFACES – ABRASIVE BLAST CLEANING  
OF STEEL.
- 2. AS2312:2002/AMDT 1:2004, GUIDE TO  
PROTECTION OF IRON AND STEEL AGAINST  
EXTERIOR ATMOSPHERIC CORROSION,  
1994.
- 3. GUIDE TO ENGINEERING PRACTICE,  
'PEDESTRIANS', PART 13, AUSTRROADS.
- 4. AS2796.3:1999, TIMBER FOR FURNITURE  
COMPONENTS.
- 5. AS1604.1–2005, SPECIFICATION FOR  
PRESERVATIVE TREATMENT, SAWN AND  
ROUND TIMBER.
- 6. AS4506 –2005, METAL FINISHING–  
THERMOSET POWDER COATINGS.
- 7. AS4680:2006, HOT DIP GALVANISING.
- 8. POWDERCOATING TO BE IN ACCORDANCE  
TO AS4506–2005 EXTERNAL EXPOSURE  
STANDARD WITH PRE-TREATMENT SAND  
BLAST, ZINC PHOSPHATE, ETC.
- 9. WOOD TREATMENT – IN ACCORDANCE  
WITH AS1604.1 HAZARD CLASSIFICATION  
H3 (EXTERIOR ABOVE GROUND) AND  
AS2796.3 (TIMBER FOR FURNITURE  
COMPONENTS.)

NOTES

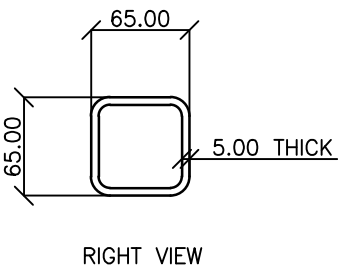
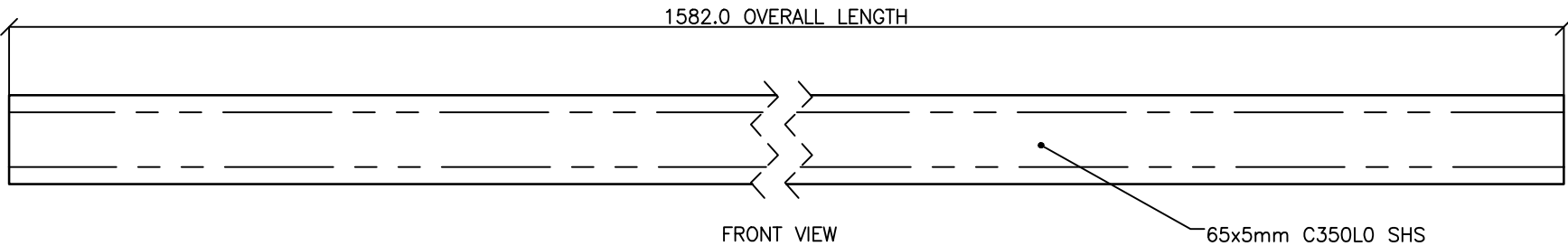
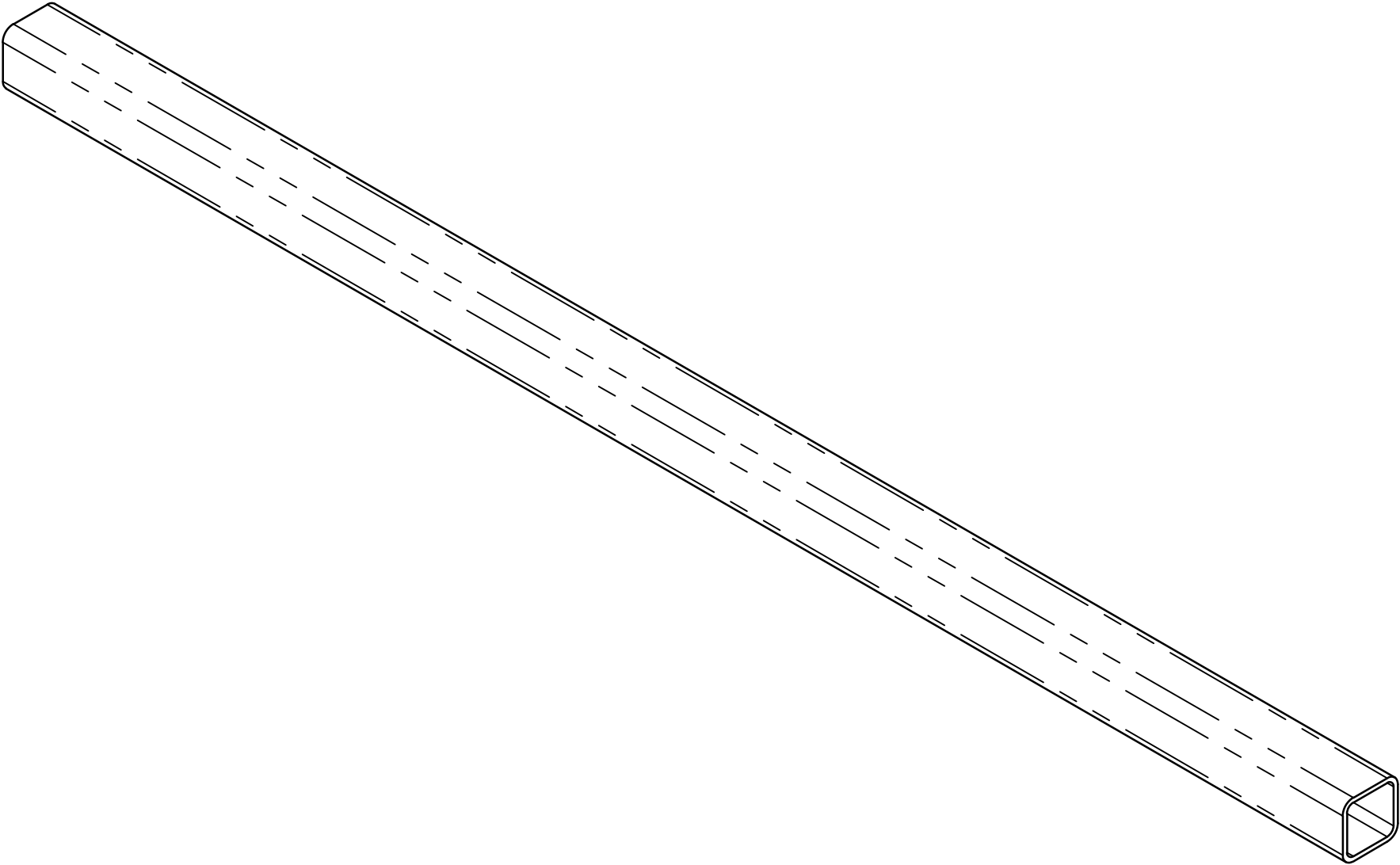
- 1. WELDING TO BE ACCORDANCE TO  
AS1554.1 CAT GP WELDING, ALL SHARP  
EDGES & BURRS REMOVED.
- 2. PART SHOULD BE SUPPLIED CLEAN AND  
FREE FROM MARKS, BURRS, SCUFFS,  
DISTORTION AND WARPAGE.
- 3. ENSURE ANTI-SEIZE IS ON ALL NUTS AND  
BOLTS PRIOR TO ASSEMBLY.
- 4. DRAWING TO AS1100 DRAWING STANDARDS.
- 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.
- 7. BENCH RAIL IS THE SAME PART AS SEAT  
RAIL (REFER TO DRAWING BSD-7201  
AND BSD-7202)


MATERIAL

- 1. MATERIAL: C350L0 SHS
- 2. COLOUR: DULUX 'METROPOLIS STORM  
PEARL' OR APPROVED EQUIVALENT
- 3. FINISH: GALVANISED AND POWDER COATED

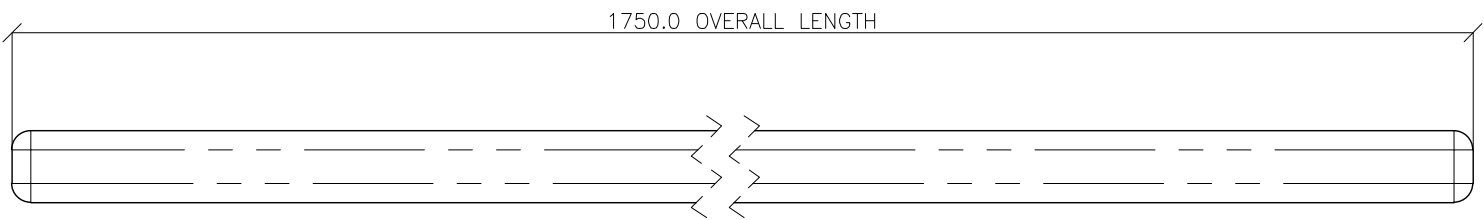
STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

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

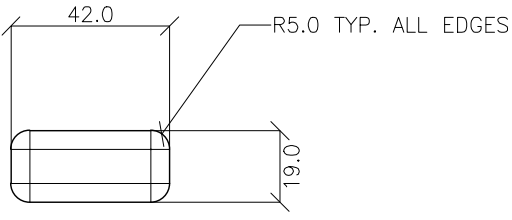


					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
						---	DRAWN	AB	DATE		JUN '12	SCALE NOT TO SCALE		
C	Colour Finish Requirements Updated (Material Notes)	MAY '17	MAY '17	MAY '17	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	CHECKED	VM	DATE	APR '13		DWG No. BSD-7203			
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	DRAWING FILENAME	BSD-7203 (B) Bench - Rail - Sheet 7 of 10.dwg				ORIGINAL SIZE A3			
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL	ASSOCIATED PLANS	SUPERSEDES UMS-564-7				REVISION C			
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	---	PRINCIPAL PLANNING OFFICER URBAN DESIGN					BENCH RAIL SHEET 7 OF 10			



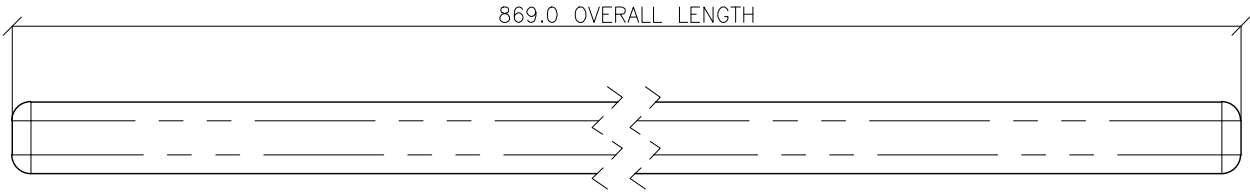


FRONT VIEW

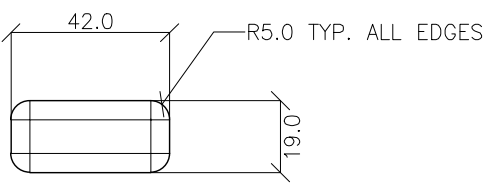


SIDE VIEW

BENCH LONG SLAT

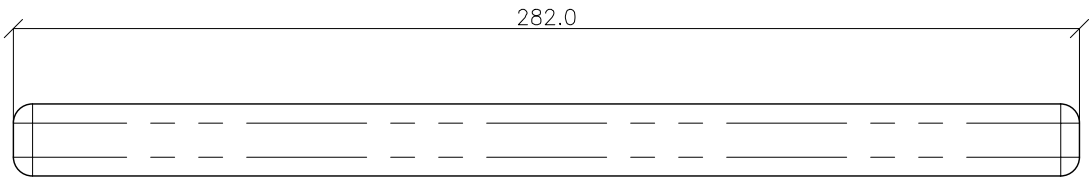


FRONT VIEW

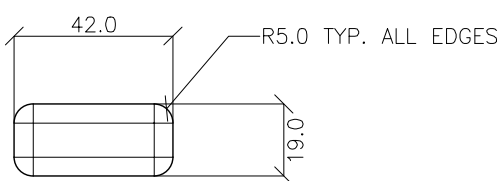


SIDE VIEW

BENCH SHORT SLAT



FRONT VIEW



SIDE VIEW

BENCH ARM REST SLAT

STANDARDS

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

1. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
2. AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION, 1994.
3. GUIDE TO ENGINEERING PRACTICE, 'PEDESTRIANS', PART 13, AUSTRROADS.
4. AS2796.3:1999, TIMBER FOR FURNITURE COMPONENTS.
5. AS1604.1–2005, SPECIFICATION FOR PRESERVATIVE TREATMENT, SAWN AND ROUND TIMBER.
6. AS4506 –2005, METAL FINISHING– THERMOSET POWDER COATINGS.
7. AS4680:2006, HOT DIP GALVANISING.
8. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
9. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

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.
7. BENCH LONG SLAT IS THE SAME PART AS SEAT LONG SLAT (REFER TO DRAWING BSD-7201 & BSD-7202)
8. BENCH SHORT SLAT IS THE SAME PART AS SEAT SHORT SLAT (REFER TO DRAWING BSD-7201 & BSD-7202)
9. BENCH ARM REST SLAT IS THE SAME PART AS SEAT ARM REST SLAT (REFER TO DRAWING BSD-7201 & BSD-7202)


MATERIAL

1. MATERIAL: HARDWOOD
2. COLOUR: JARRAH STAIN
3. FINISH: SMOOTH + WATER BASED FURNITURE OIL

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	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13		
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7203 (B) Bench - Timber slats - Sheet 8 of 10.dwg				
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		ASSOCIATED PLANS	SUPERSEDES UMS-564-8				
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	PRINCIPAL PLANNING OFFICER URBAN DESIGN						
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE							

SCALE  
NOT TO SCALE

DWG No.  
**BSD-7203**

ORIGINAL SIZE  
A3

REVISION  
B

## STANDARDS

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

1. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
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8. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
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## 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.
7. BENCH LOGO BADGE IS THE SAME PART AS SEAT LOGO BADGE (REFER TO DRAWING BSD-7201 & BSD-7202)

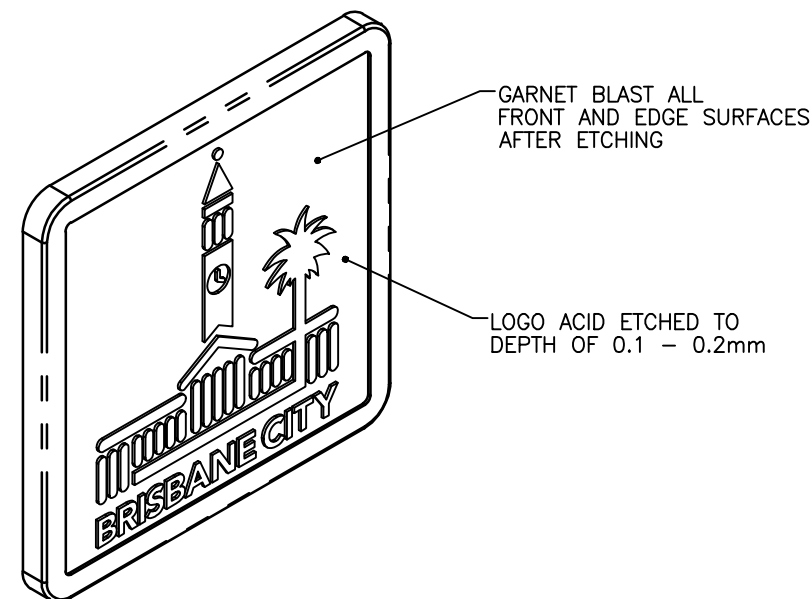
## MATERIAL

1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: GARNET BLASTED

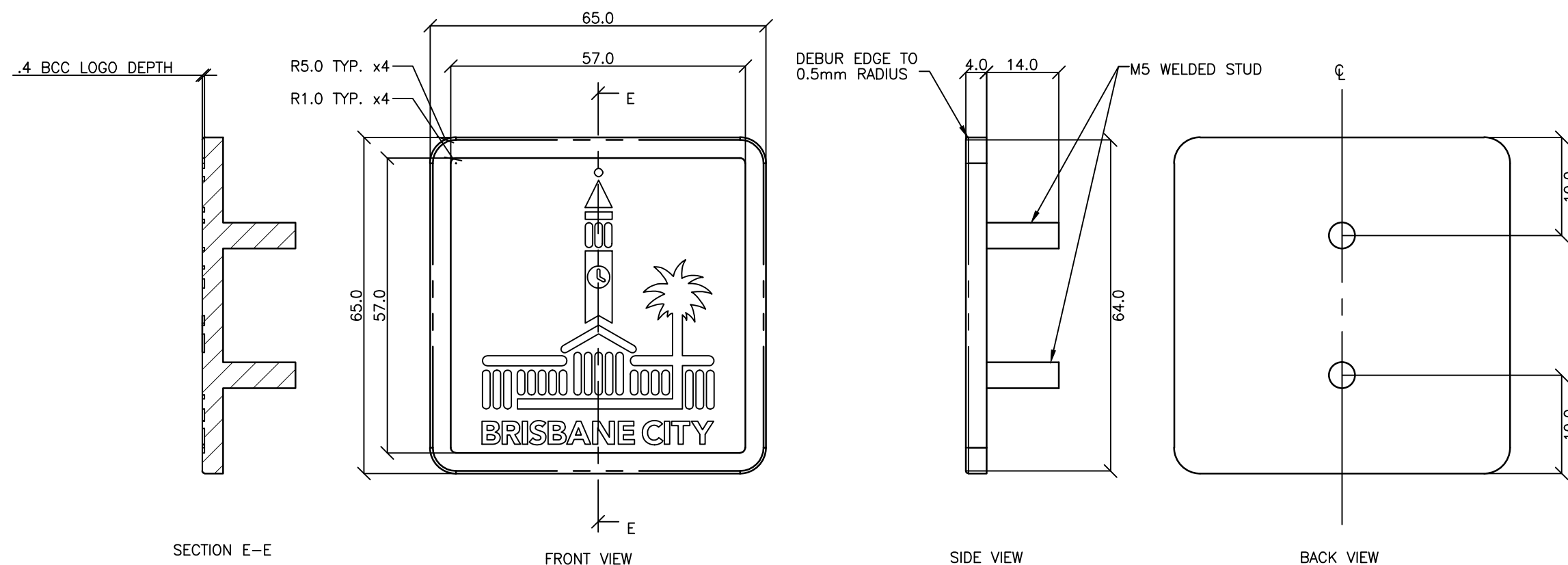
STRUCTURAL DESIGN REVIEWED  
AND CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL DATE: 28/ 6/ 12



PICTORIAL VIEW




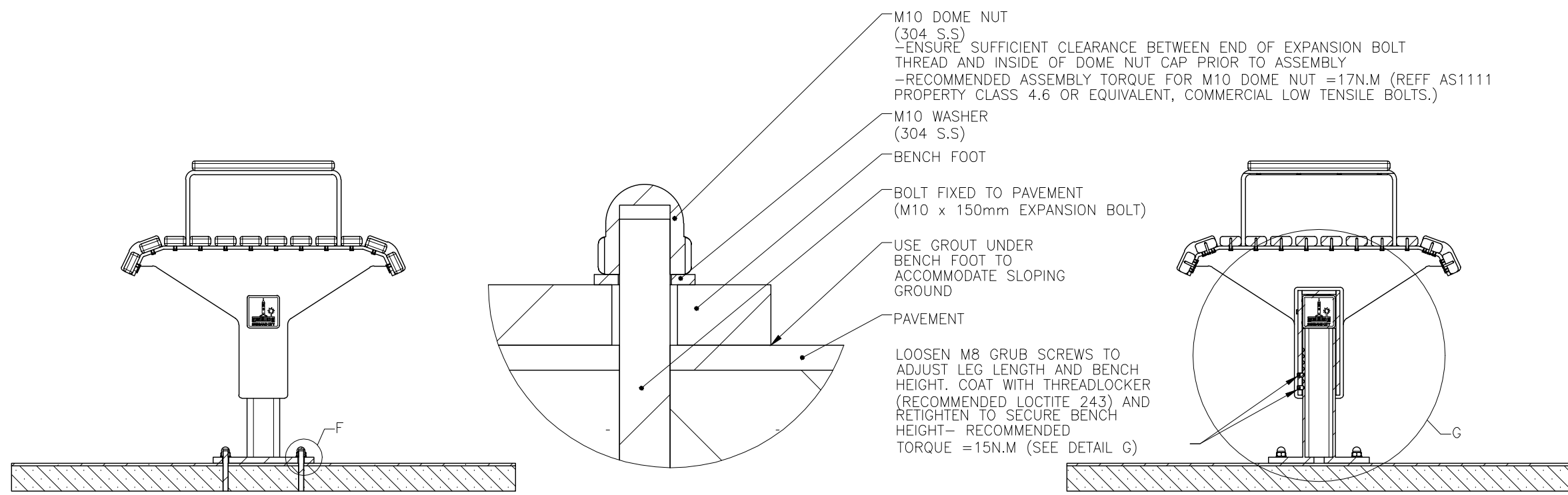
SECTION E-E

FRONT VIEW

SIDE VIEW

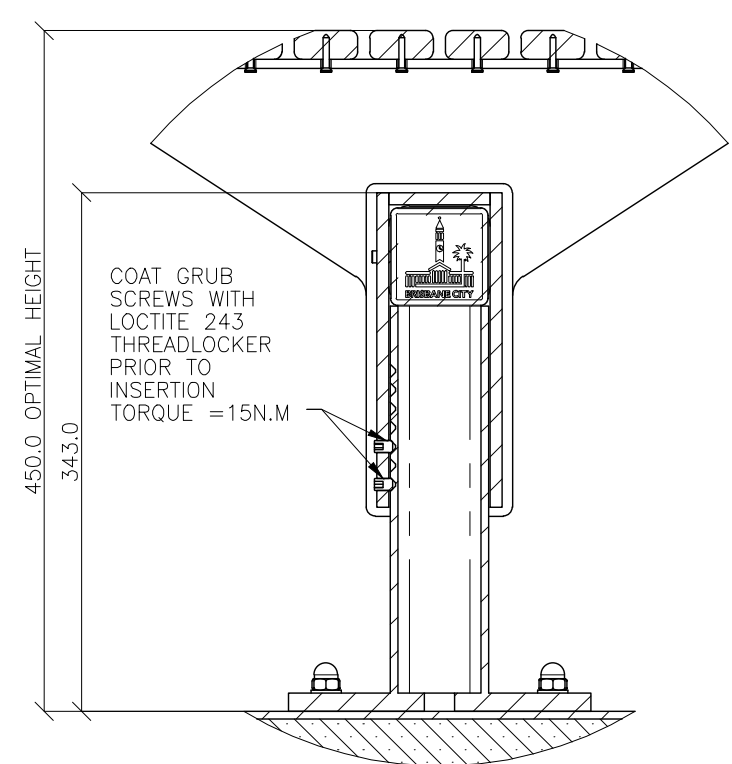
BACK VIEW

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORM200 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
						DRAWN	AB	DATE	JUN '12				
C	Logo Badge Acid Etch Badge Depth Amended	MAY '17	MAY '17	MAY '17	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	CHECKED	VM	DATE	APR '13		DWG No.	BSD-7203	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	DRAWING FILENAME	BSD-7203 (B) Bench - Logo badge - Sheet 9 of 10.dwg				ORIGINAL SIZE	REVISION	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL	ASSOCIATED PLANS	SUPERSEDES UMS-564-9				A3	C	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN						BENCH LOGO BADGE SHEET 9 OF 10		

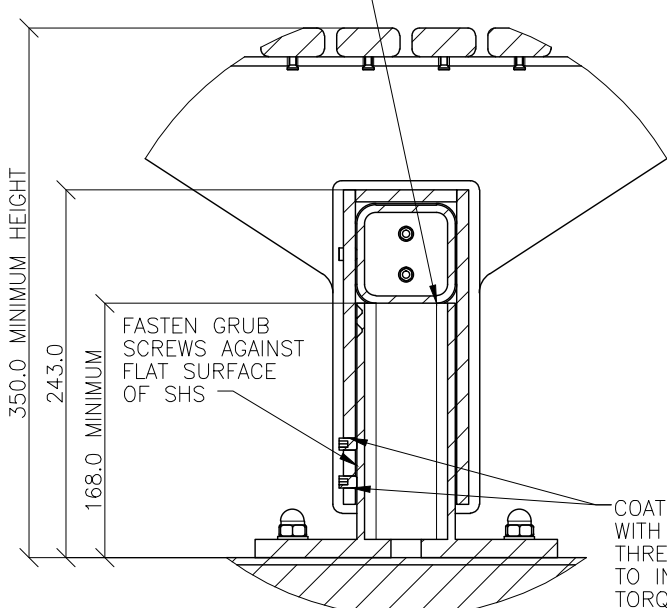


SECTION VIEW OF INSTALLATION

DETAIL F  
INSTALLATION DETAIL  
SCALE 1 : 1



TO LOWER BENCH – CUT BENCH FOOT TO REQUIRED HEIGHT. COAT CUT EDGES OF FOOT WITH COLD GAL PRIOR TO RE-ASSEMBLING. ENSURE CONTACT BETWEEN TOP OF FOOT AND BENCH RAIL PRIOR TO TIGHTENING GRUB SCREWS.



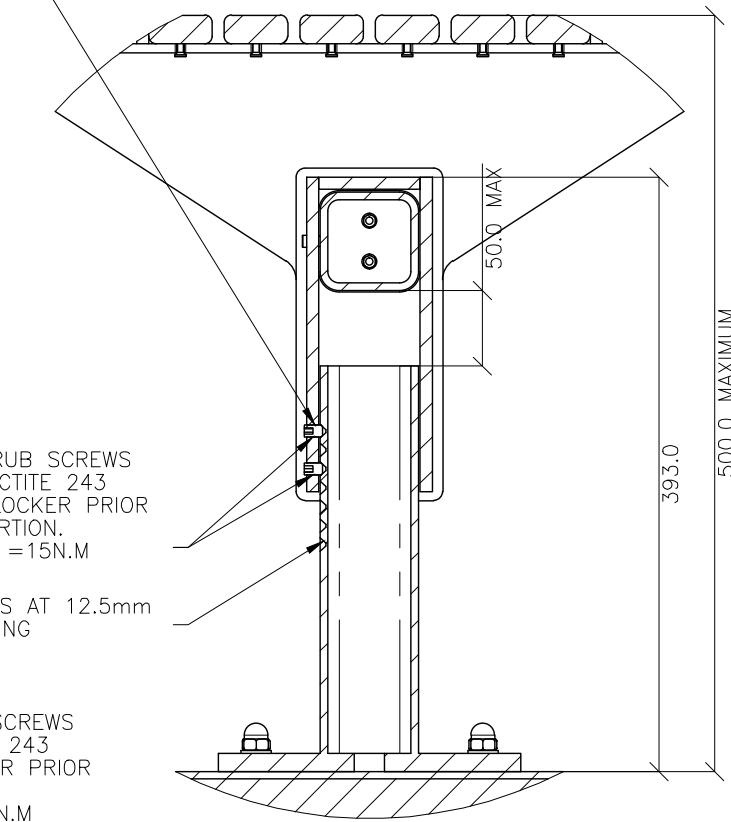
COAT GRUB SCREWS WITH LOCTITE 243 THREADLOCKER PRIOR TO INSERTION. TORQUE = 15N.M

DIVOTS AT 12.5mm SPACING

COAT GRUB SCREWS WITH LOCTITE 243 THREADLOCKER PRIOR TO INSERTION TORQUE = 15N.M

DETAIL G  
HEIGHT ADJUSTMENT DETAIL  
TO ACCOMMODATE SLOPING SURFACES  
SCALE 1 : 5

TO RAISE BENCH – LIFT FRAME TO REQUIRED HEIGHT. POSITION GRUB SCREWS IN LINE WITH THE NEAREST DIVOTS IN THE BENCH FOOT. TIGHTEN GRUB SCREWS ENSURING THEY LOCATE CORRECTLY WITHIN DIVOTS.



## STANDARDS

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

1. AS1627.4 METAL FINISHING – PREPARATION AND PRE-TREATMENT OF SURFACES – ABRASIVE BLAST CLEANING OF STEEL.
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7. AS4680:2006, HOT DIP GALVANISING.
8. POWDERCOATING TO BE IN ACCORDANCE TO AS4506–2005 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
9. WOOD TREATMENT – IN ACCORDANCE WITH AS1604.1 HAZARD CLASSIFICATION H3 (EXTERIOR ABOVE GROUND) AND AS2796.3 (TIMBER FOR FURNITURE COMPONENTS.)

## 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: SEE COMPONENT DRAWING
2. COLOUR: SEE COMPONENT DRAWING
3. FINISH: SEE COMPONENT DRAWING

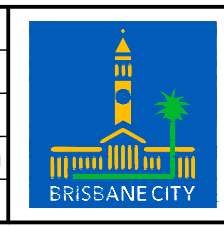
STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

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

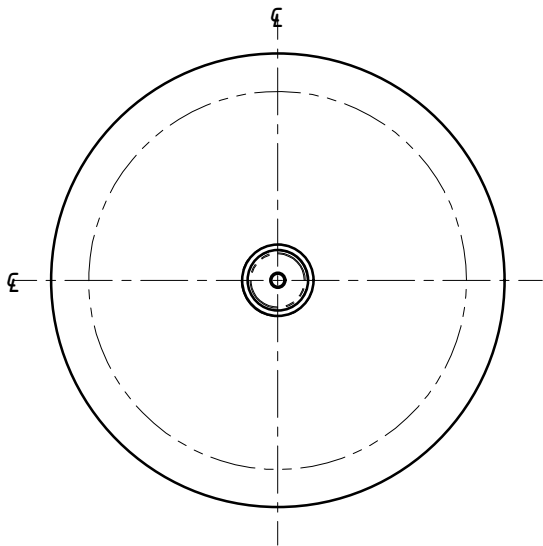
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE

DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIE AUTHORISED 15/04/2014
ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT DESIGN APPROVED
VICKI MARTIN SIGNATURE ON ORIGINAL
PRINCIPAL PLANNING OFFICER URBAN DESIGN

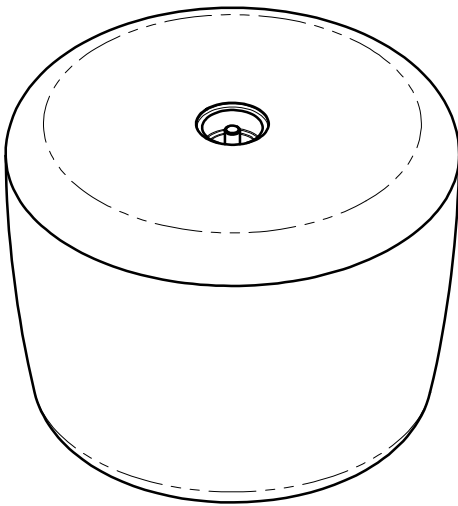
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DRAWN	AB	DATE	JUN '12
CHECKED	VM	DATE	APR '13
DRAWING FILENAME	BSD-7203 (B) Bench - Installation - Sheet 10 of 10.dwg		
ASSOCIATED PLANS	SUPERSEDES UMS-564-10		



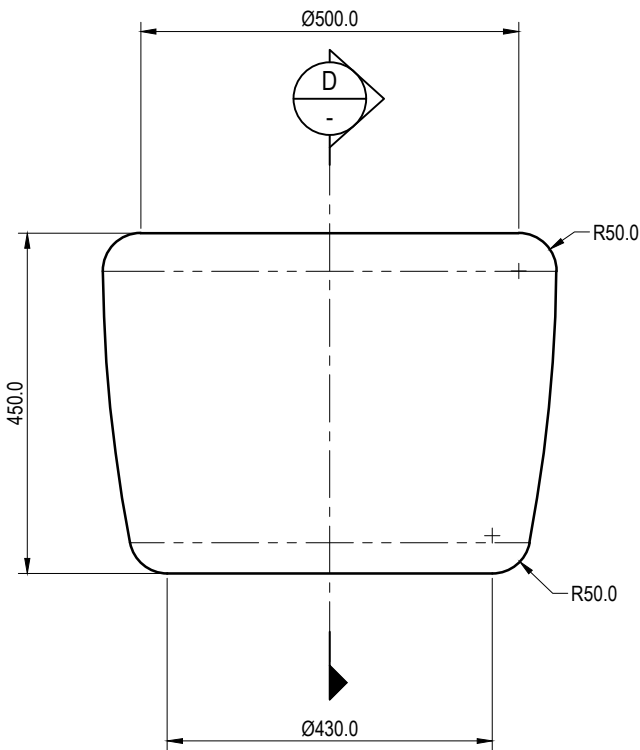
BRISBANE CITY COUNCIL STANDARD DRAWING			
BENCH INSTALLATION SHEET 10 OF 10		SCALE NOT TO SCALE	
		DWG No. BSD-7203	
		ORIGINAL SIZE A3	REVISION B



TOP VIEW

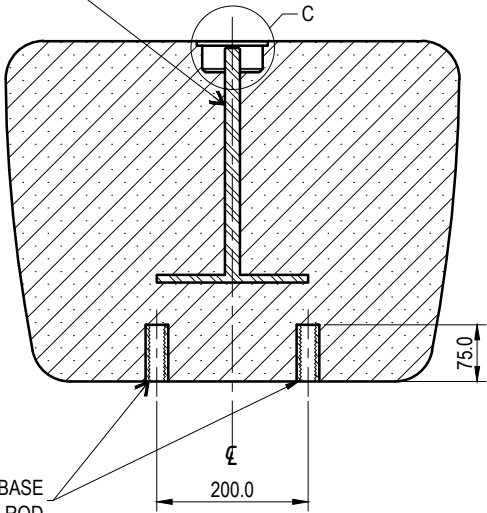


PICTORIAL VIEW



FRONT VIEW

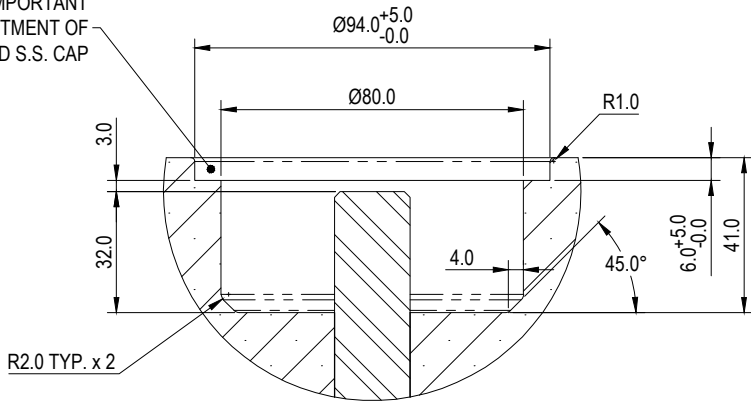
ANCHOR TO BE CAST IN PLACE  
REFER TO BSD-7204 SHEET 3



SECTION D-D

2 x THREADED FERRULE CAST INTO BASE  
TO SUIT Ø20mm THREADED MS ROD

REBATE ACCURACY IS IMPORTANT  
TO ENSURE CORRECT FITMENT OF  
LIFTING LUG AND S.S. CAP



DETAIL C  
REBATE DETAIL  
SCALE 1 : 2

## STANDARDS

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

1. AS1627.4 METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
2. AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION, 1994.

## 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.

## MATERIAL

1. MATERIAL: PRECAST CONCRETE
2. COLOUR: VARIES - TBC ON ORDER
3. FINISH: CLASS 1 CONCRETE FINISH

THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

URBAN STOOL  
SHEET 1 OF 5

PUBLISH DATE

March 2021

SCALE

NOT TO SCALE

DRAWING NUMBER

BSD-7204

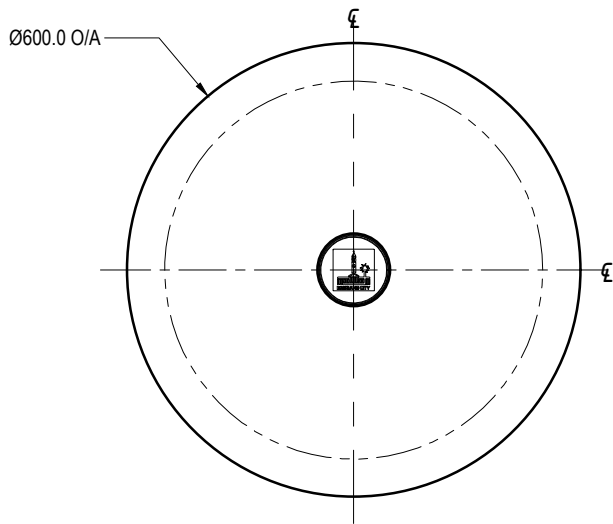
ORIGINAL SIZE

A3

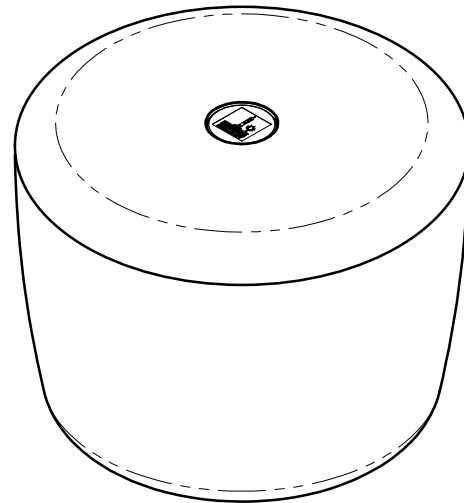
REVISION

E

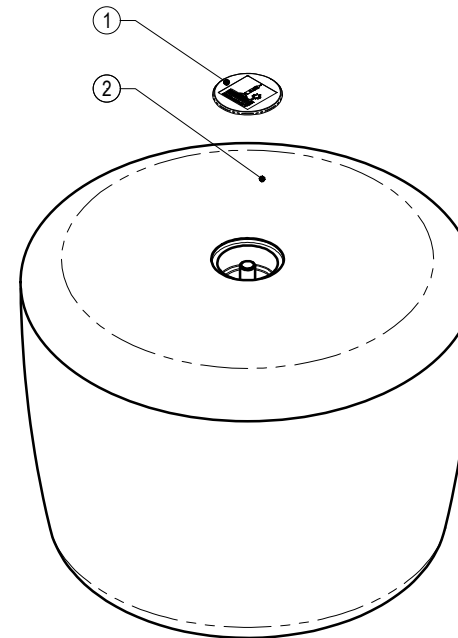




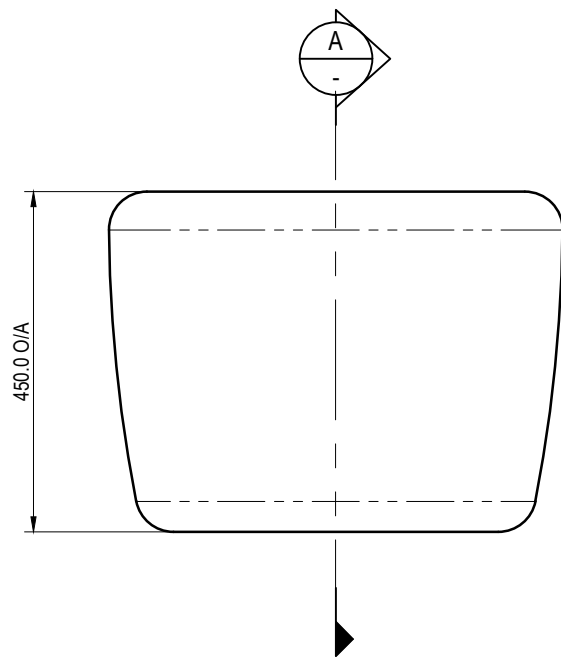
TOP VIEW



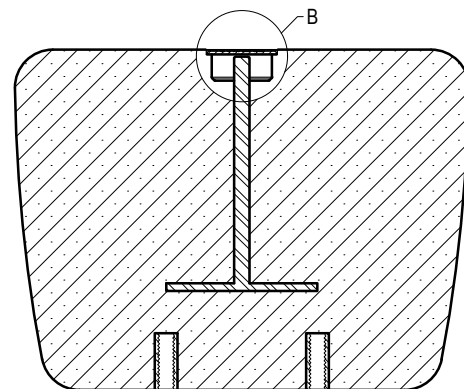
PICTORIAL VIEW



EXPLODED VIEW



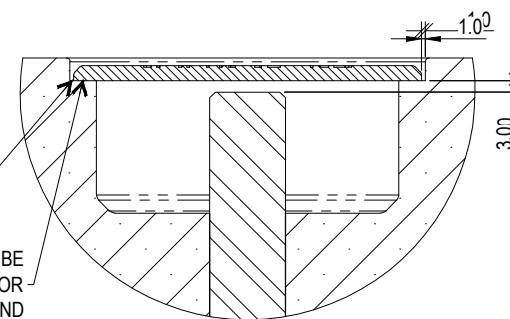
FRONT VIEW



SECTION A-A

STAINLESS STEEL CAP BOTTOMS OUT ON  
SHOULDER OF CAST CONCRETE STOOL

AFTER INSTALLATION ON SITE, LOGO PLATE TO BE  
SECURED WITH ADHESIVE - SIKAFLEX 11FC OR  
EQUIVALENT FOR METAL TO CONCRETE BOND



DETAIL B  
CAP ASSEMBLY DETAIL  
SCALE 1 : 2

## STANDARDS

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

- 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.

## 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.

## MATERIAL

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

ITEM NO.	DESCRIPTION	QTY.
1	Urban Stool Cap	1
2	Urban Stool	1

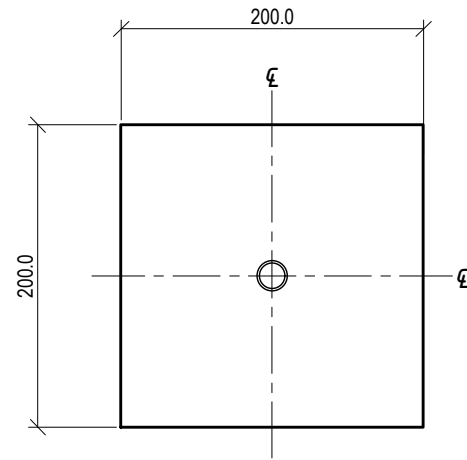
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND  
ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



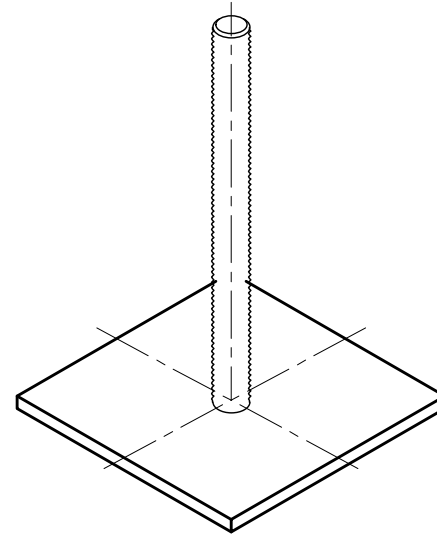
BRISBANE CITY COUNCIL STANDARD DRAWING

URBAN STOOL  
ASSEMBLY  
SHEET 2 OF 5

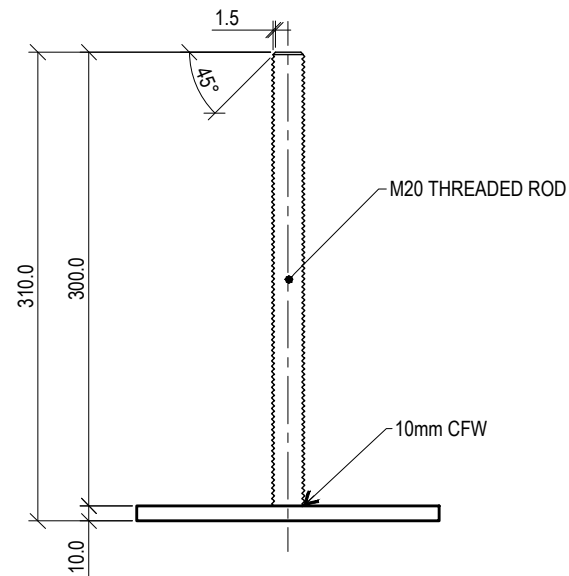
PUBLISH DATE	March 2021
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-7204
ORIGINAL SIZE	A3
REVISION	E



TOP VIEW



PICTORIAL VIEW



FRONT VIEW

## STANDARDS

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

- 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.

## 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.

## MATERIAL

- MATERIAL: 304 STAINLESS STEEL
- COLOUR: NATURAL
- FINISH: NATURAL

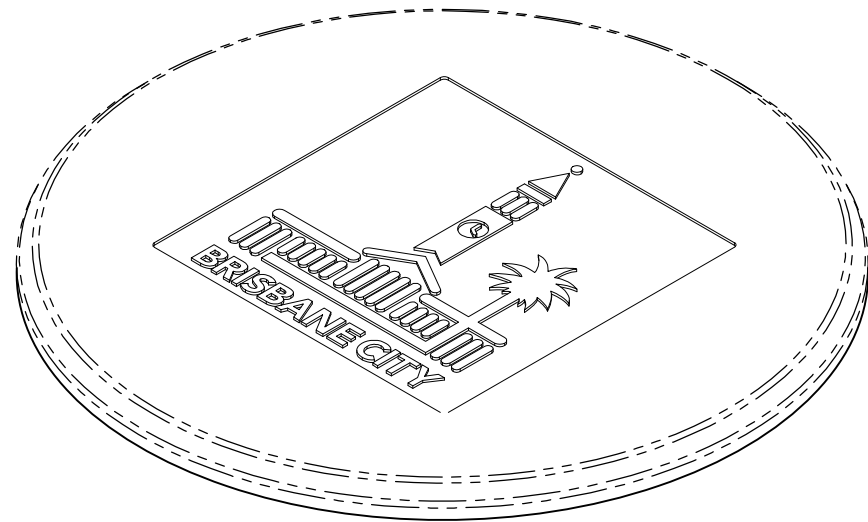
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



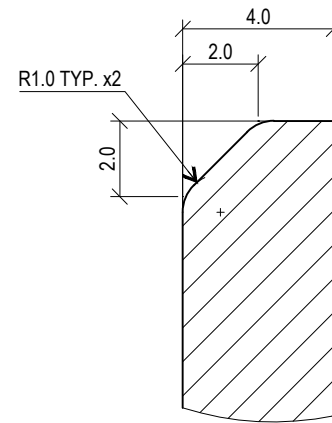
BRISBANE CITY COUNCIL STANDARD DRAWING

URBAN STOOL  
ANCHOR  
SHEET 3 OF 5

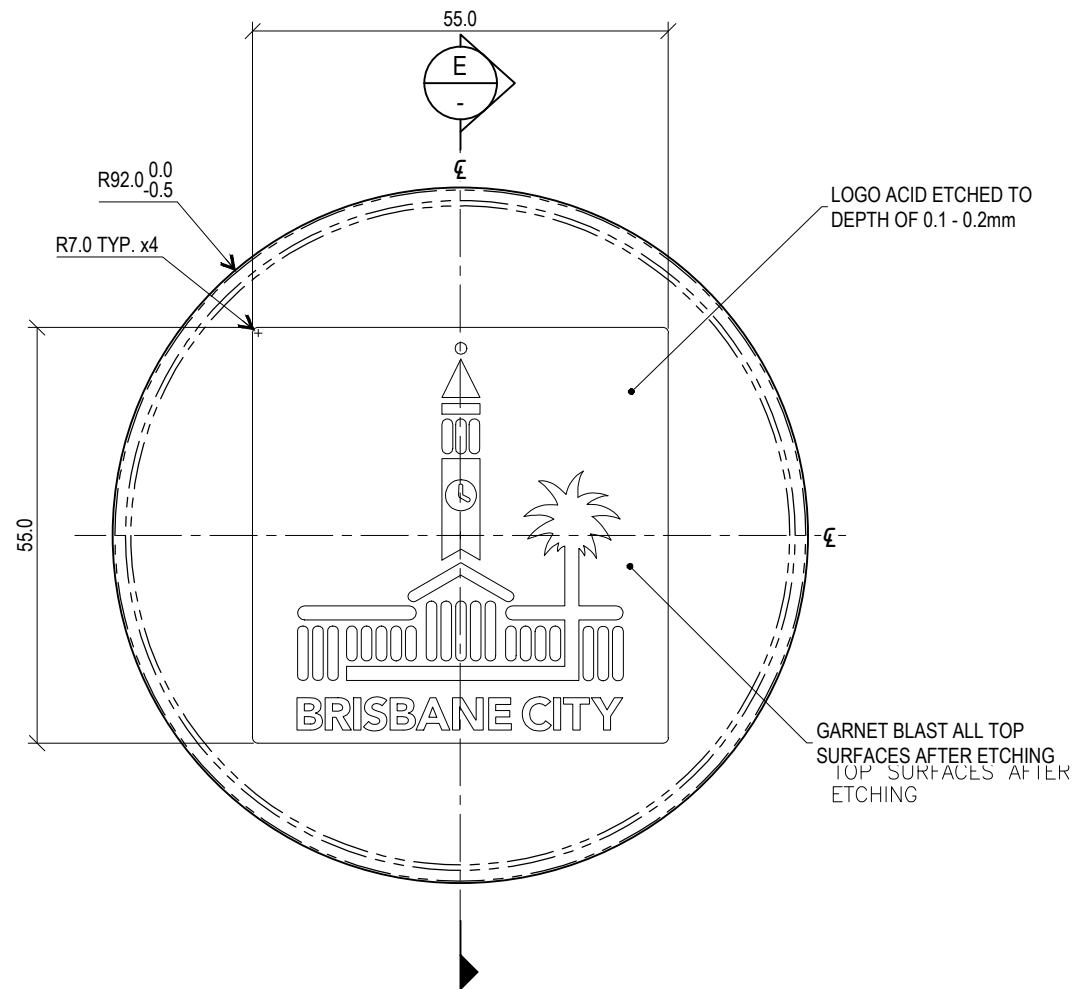
PUBLISH DATE		March 2021
SCALE		NOT TO SCALE
DRAWING NUMBER		BSD-7204
ORIGINAL SIZE	REVISION	
A3	E	



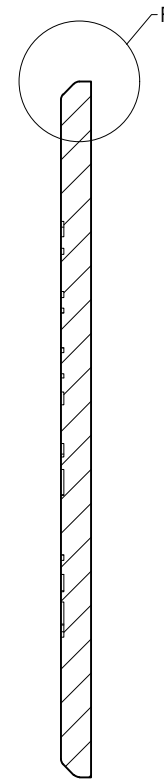
PICTORIAL VIEW



DETAIL F  
SCALE 5 : 1



TOP VIEW



SECTION E-E

## STANDARDS

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

- 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.

## NOTES

- PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
- DRAWING TO AS1100 DRAWING STANDARDS.

## MATERIAL

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

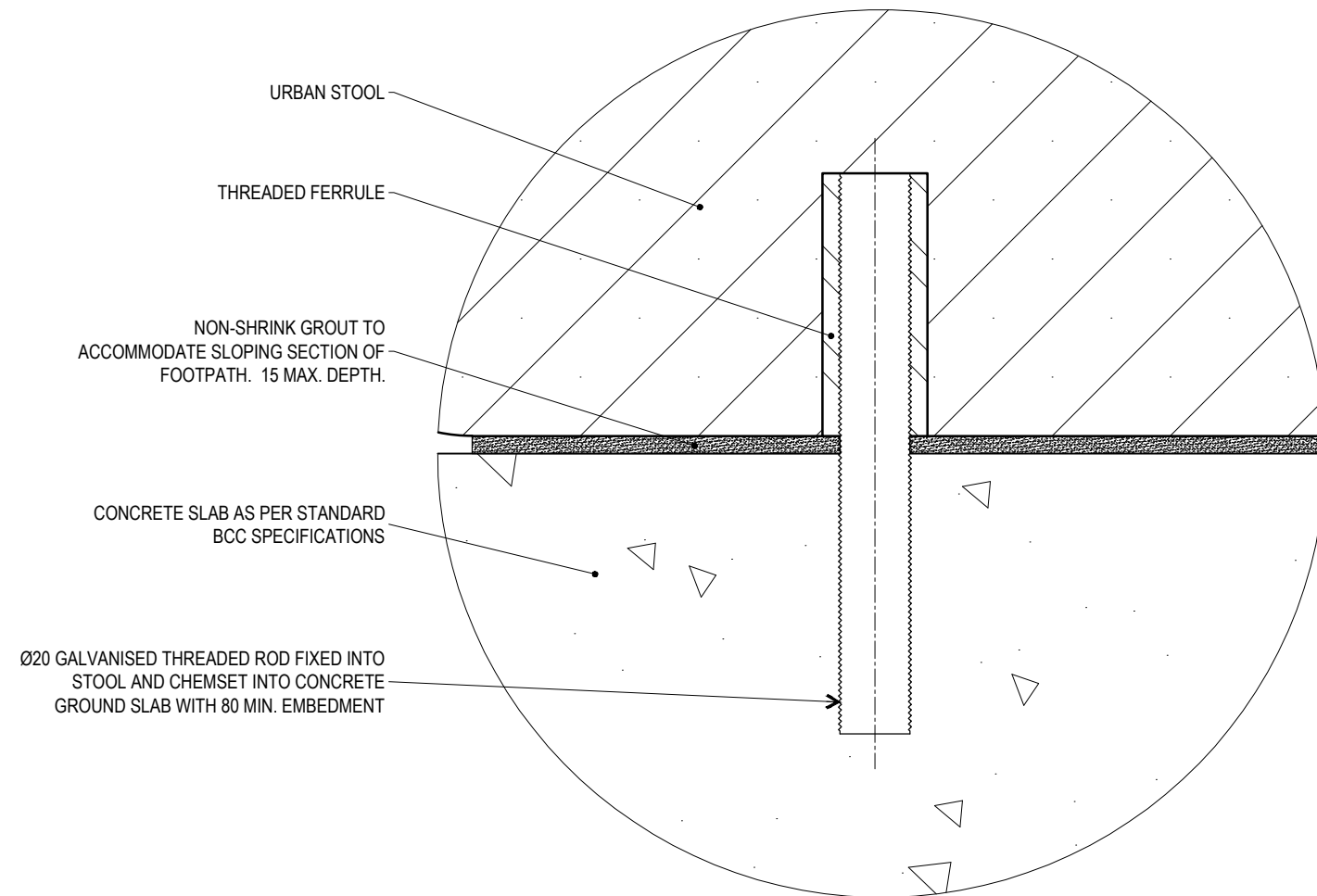
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



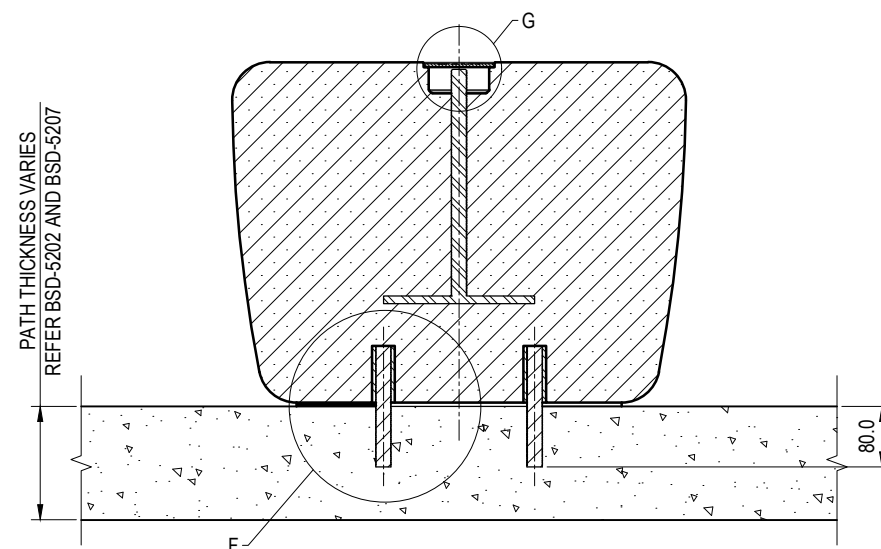
BRISBANE CITY COUNCIL STANDARD DRAWING

URBAN STOOL  
CAP  
SHEET 4 OF 5

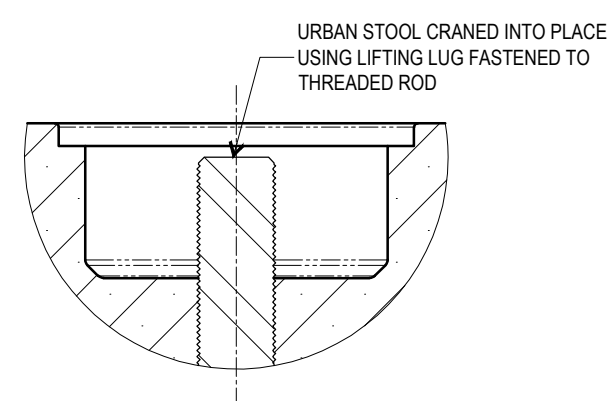
PUBLISH DATE	MArch 2021	
SCALE	NOT TO SCALE	
DRAWING NUMBER	BSD-7204	
ORIGINAL SIZE	A3	REVISION E



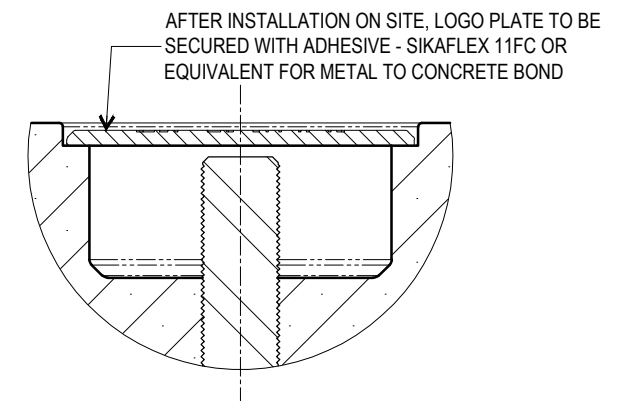
DETAIL F  
INSTALLATION DETAIL  
SCALE 1:1



SECTION VIEW OF INSTALLATION



DETAIL G  
SCALE 1:2



## 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, AUSTROADS.

## 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.

## MATERIAL

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

THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

URBAN STOOL  
INSTALLATION  
SHEET 5 OF 5

PUBLISH DATE	March 2021
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-7204
ORIGINAL SIZE	A3
REVISION	E



NEW CONCRETE SLAB SIZING TABLE FOR STREETSCAPE AND PUBLIC FURNITURE ITEMS - MINIMUM REQUIREMENTS

FURNITURE ITEM TYPE (BSD NUMBER)	CONCRETE STRENGTH AND GRADE	SLAB EXTENT AROUND FIXING POINTS	REINFORCEMENT REQUIREMENTS	SURFACE RESTORATION WIDTH 'A' (MIN.)	SURFACE RESTORATION LENGTH 'B' (MIN.)
SINGLE BIKE RACK (BSD-5051)	N32	FOOTING: 600 x 600 x 200 (DEPTH)	SL82	600	1100
MULTI-BIKE RACK (BSD-5052) - 3 BAY	N32	FOOTING: 600 x 600 x 200 (DEPTH)	SL82	600	1500
MULTI-BIKE RACK (BSD-5052) - 4 BAY	N32	FOOTING: 600 x 600 x 200 (DEPTH)	SL82	600	1800
MULTI-BIKE RACK (BSD-5052) - 5 BAY	N32	FOOTING: 600 x 600 x 200 (DEPTH)	SL82	600	2100
STREETSCAPE FIXED BOLLARD (BSD-7095)	N32	FOOTING: 600 x 600 x 300 (DEPTH)	-	600	600
STANDARD SEAT (BSD-7201)	N32	FOOTING: 600 x 600 x 200 (DEPTH)	SL82	1000	2150
PUBLIC TRANSPORT SEAT (BSD-7202)	N32	FOOTING: 600 x 600 x 200 (DEPTH)	SL82	1050	2050
ANODISED 240L BIN UNIT DESIGN (BSD-7302)	N32	-	SL82	1110	1250
DRINKING FOUNTAIN (BSD-7331)	N32	FOOTING: 600 x 600 x 300 (DEPTH)	-	600	1020
BENCH (BSD-7203)	N32	FOOTING: 600 x 600 x 300 (DEPTH)	SL82	600	2050

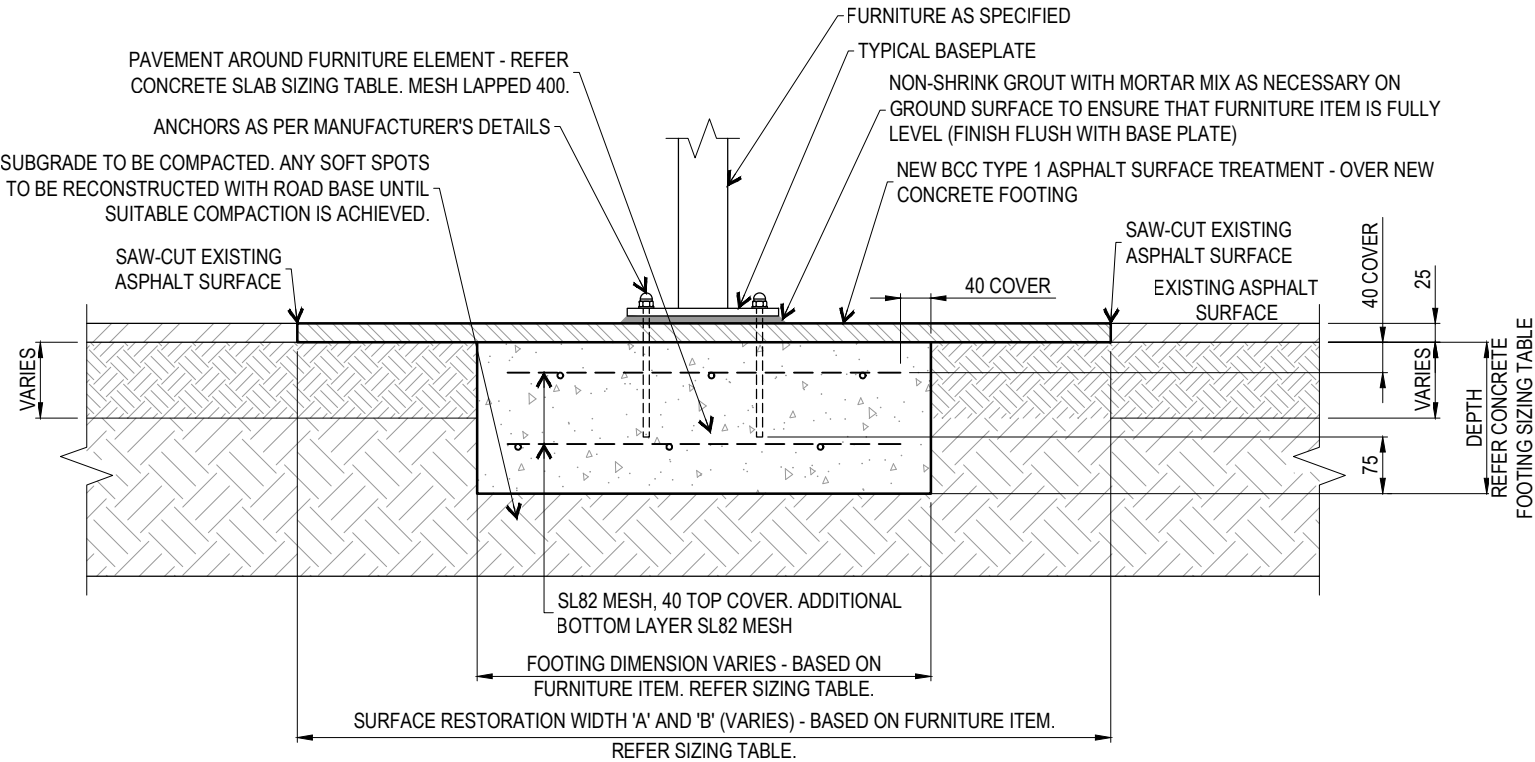
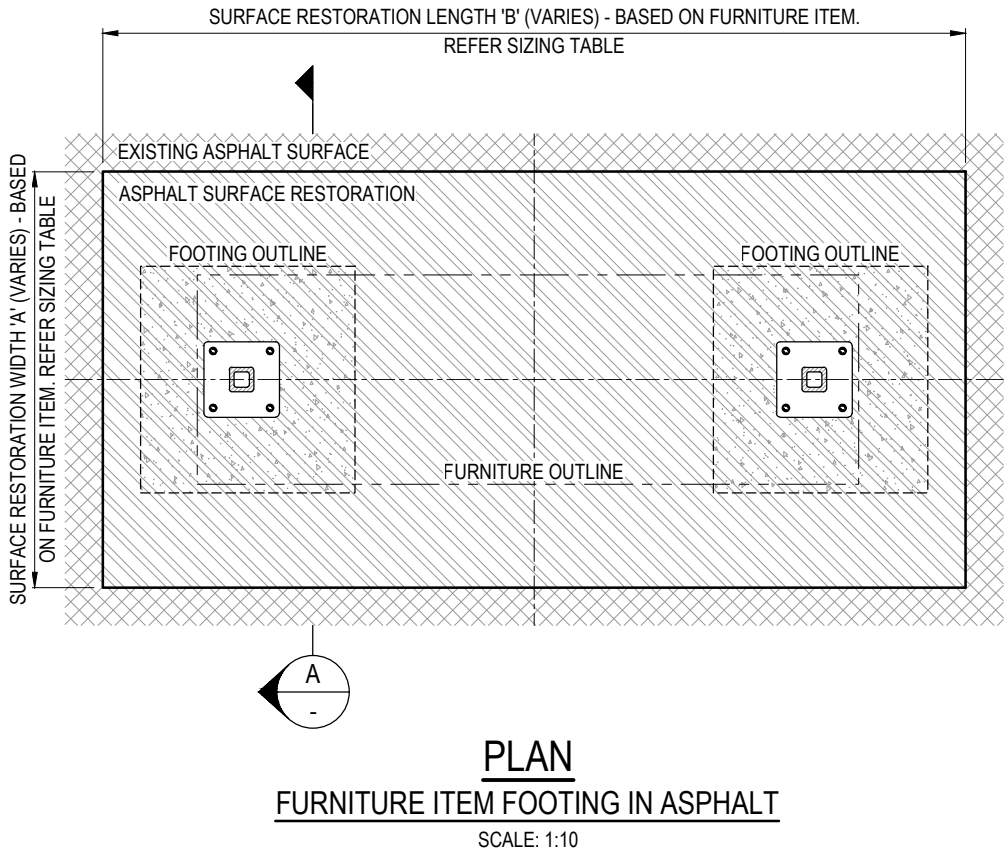
CONCRETE WORK NOTES

1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS3600.
2. FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 100 kPa.
3. IF ANCHORING TO AN EXISTING CONCRETE SLAB, ENSURE SLAB IS MINIMUM 125 THICK AND MINIMUM SIZE OF 1965 x 800.
4. WHERE SLAB ADJOINS A CONCRETE PATH, A DOWELLED EXPANSION JOINT (AS PER BSD-5206) SHALL BE INSTALLED BETWEEN THE TWO INTERFACES.
5. DETAIL ASSUMES EXISTENCE OF EXISTING SLAB UNDER EXISTING SURFACE TREATMENT, IF NO SLAB EXISTS, A NEW SLAB IS TO BE CONSTRUCTED UNDER FURNITURE ITEM AS PER SIZING TABLE ON THIS SHEET FOR SPECIFIC FURNITURE ITEM.

- CENTRE OF FURNITURE ITEM IS TO BE BE A MINIMUM OF 200 AWAY FROM EDGE OF SLAB AND IN ANY DIRECTION.

- IF SOFT UNCONSOLIDATED GROUND IS DISCOVERED AT FOUNDING LEVEL, SEEK SUPERINTENDENT'S DIRECTION BEFORE OVER EXCAVATING OR BACKFILLING WITH CONTROLLED FILL CLASS 2 MATERIAL AND COMPACT.

- ALL IN GROUND SERVICES SHALL BE IDENTIFIED BY CONTRACTOR, IF SERVICES ARE FOUND AT LOCATION OF FOOTING, CONTACT SUPERINTENDENT.
6. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).



NOTE:  
TYPICAL SURFACE MOUNTING (FLANGE MOUNTING) TO NEW CONCRETE FOOTING UNDER ASPHALT SURFACE:  
SUITABLE FOR MOST STREETSCAPE AND PUBLIC FURNITURE ITEMS AS PER THE SIZING TABLE.

SECTION A-A  
FURNITURE ITEM FOOTING IN ASPHALT  
SCALE: 1:10

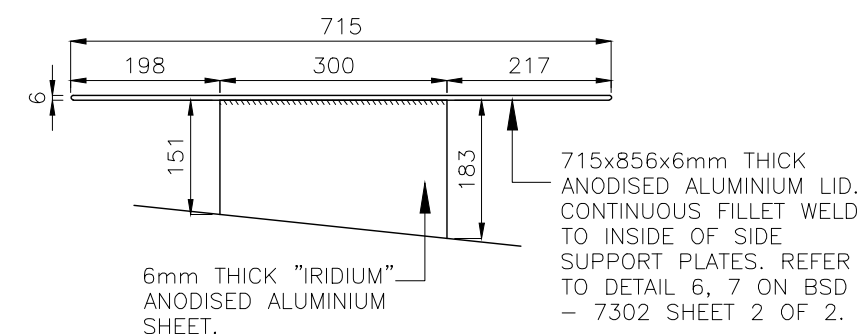
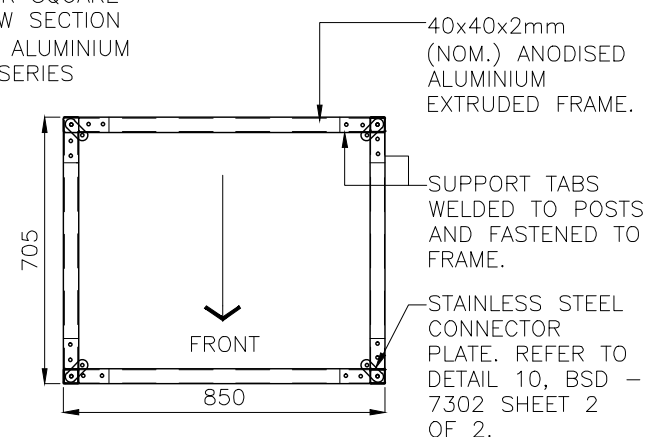
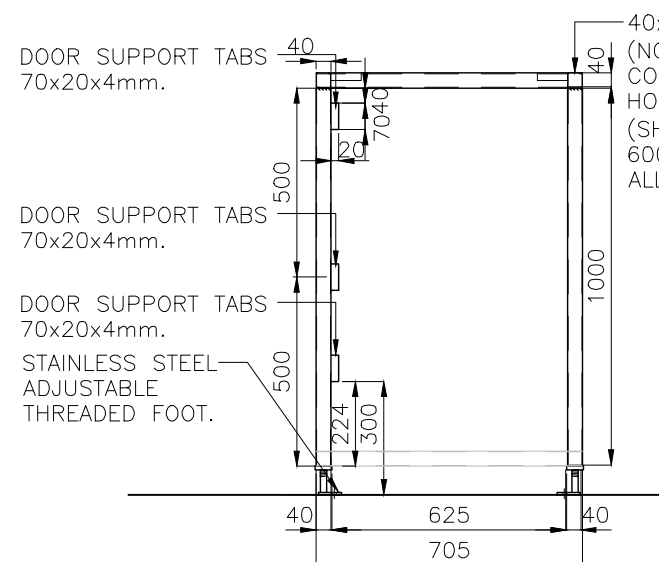
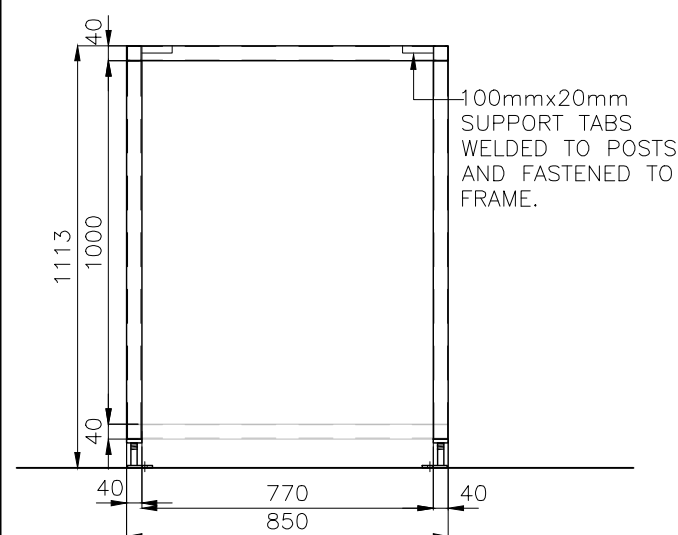
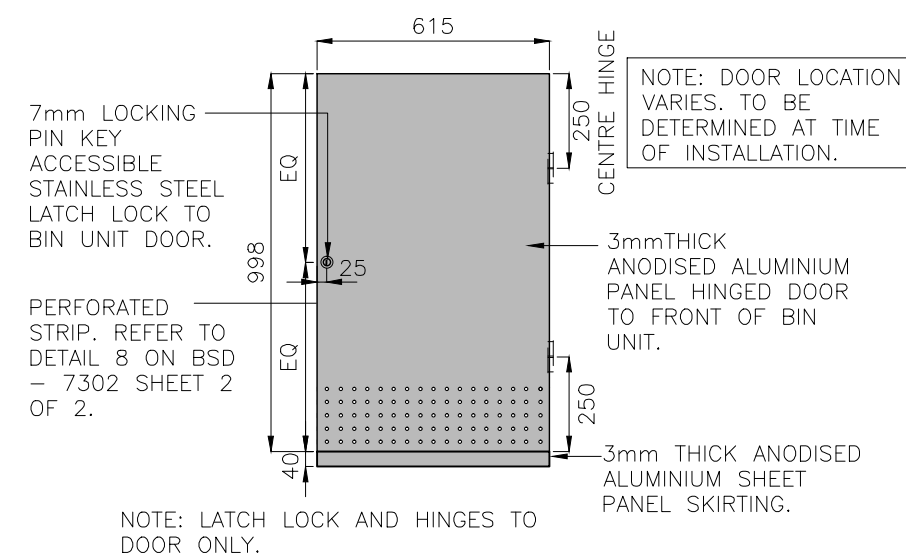
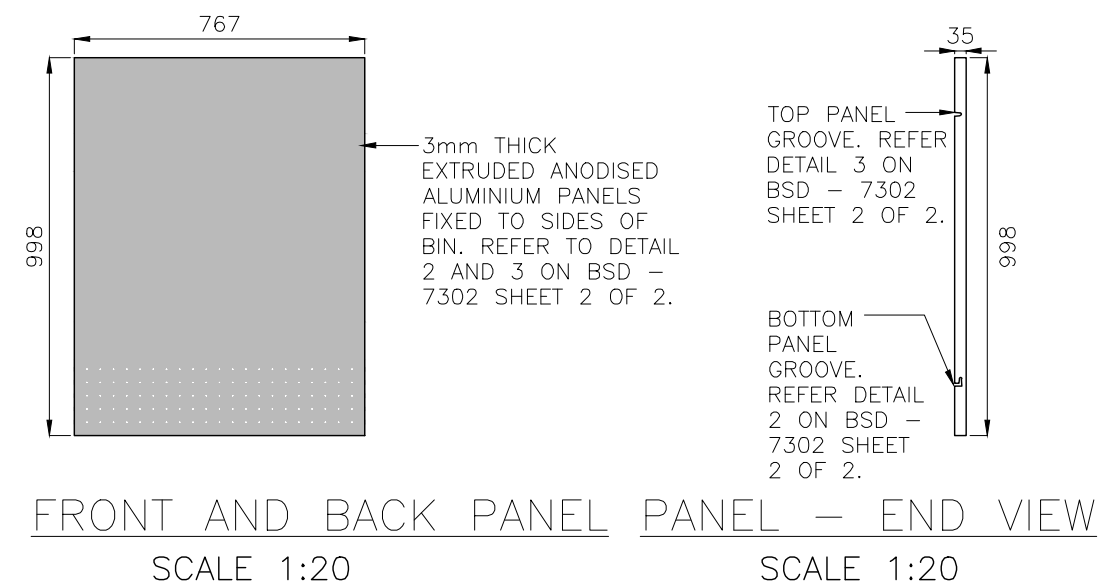
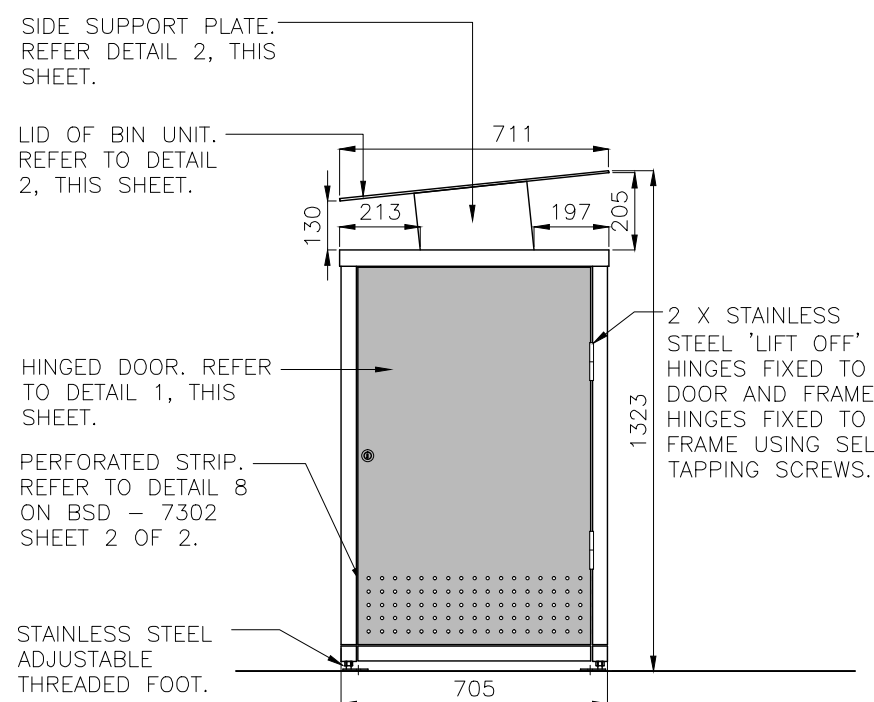
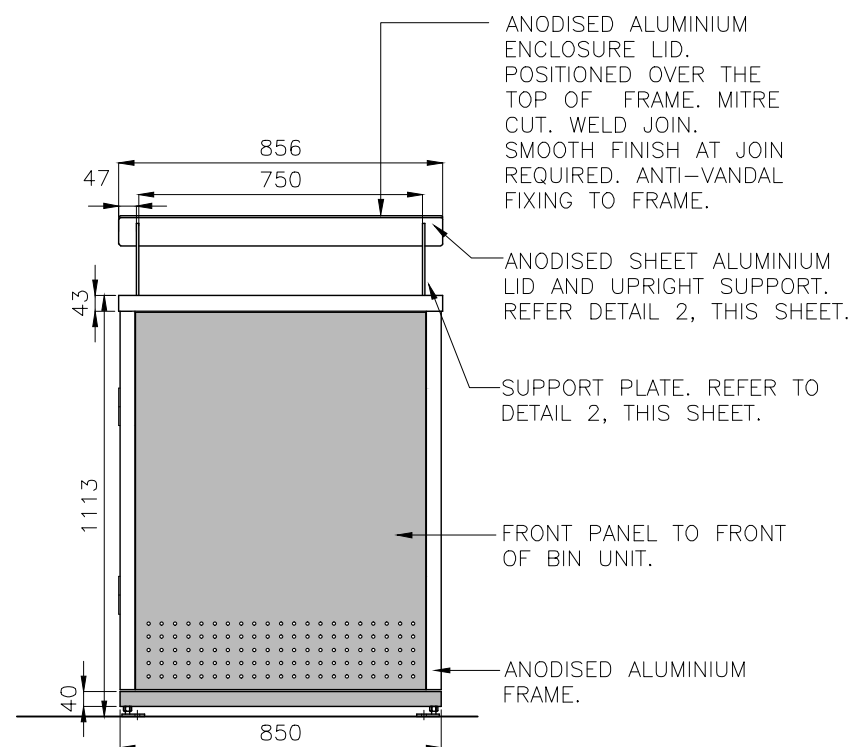
THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED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



BRISBANE CITY COUNCIL STANDARD DRAWING


FOOTING DETAILS FOR  
STREETSCAPE AND PUBLIC  
FURNITURE ITEMS

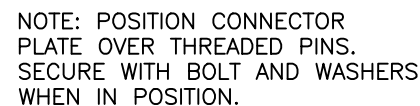
PUBLISH DATE	JUN 2023
SCALE	AS SHOWN
DRAWING NUMBER	BSD-7205
ORIGINAL SIZE	A3
REVISION	B



DISCLAIMER:  
MAUFACTURED UNDER AUSTRALIAN PATENT NO.  
2011100749 WITH PERMISSION OF THE INVENTOR.

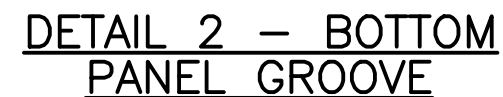
NOTES SUPPORT P  
 REFER TO BSD – 7302 SHEET 2 OF 2 FOR FINISHES & COLOUR SCHEDULE AND DETAILS. SCALE 1:10

					<div>DRAWING AUTHORISED FOR PUBLICATION</div> <div>Ingo Condric 2014.07.15 10:30:22+10'00'</div> <div>PR ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT</div> <div>DESIGN APPROVED</div> <div>Bernard Quinn</div> <div>LITTER PROGRAM OFFICER</div>	DESIGN	Std Dwgs WG	DATE	MAY '14	<div></div>	<div>BRISBANE CITY COUNCIL STANDARD DRAWING</div> <div>ANODISED 240L ALTERNATIVE ASPECT – BIN UNIT DESIGN SHEET 1 OF 2</div>			SCALE		AS SHOWN	
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16		DRAWN	CP0 - P&D	DATE	MAY '14					Dwg No.	BSD-7302		
B	Amendment to Bin Details	MAY '14	MAY '14	MAY '14		CHECKED	BI - FSG - WS	DATE	MAY '14					ORIGINAL SIZE	A3		
A	Drawing Converted From UMS Series May 2014	MAY '14	MAY '14	MAY '14		DRAWING FILENAME	BSD-7302 (C) Anodised - 240L-Alternate Aspect - Bin Unit Design - Sheet 1 of 2.dwg							REVISION	C		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS											



SCALE 1:2

**DISCLAIMER:**  
MAUFACTURED UNDER AUSTRALIAN PATENT NO.  
2011100749 WITH PERMISSION OF THE INVENTOR.



SCALE 1:2



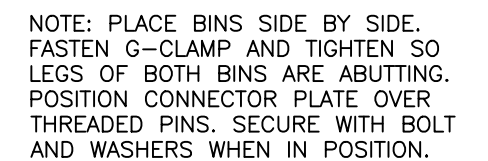
SCALE 1:2



SCALE 1:2



SCALE 1:2

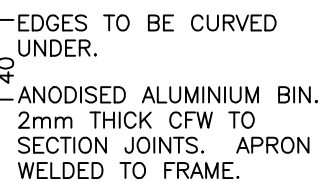


DETAIL 4 - BIN UNIT TO  
BIN UNIT

SCALE 1:20



SCALE 1:10




SCALE 1:2



SCALE 1:20



SCALE 1:20

					<div>DRAWING AUTHORISED FOR PUBLICATION</div> <div>Inga Condric 2014.07.15 10:31:14+10'00'</div> <div>ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT</div> <div>Bernard Quinn</div> <div>LITTER PROGRAM OFFICER</div>	DESIGN	Std Dwgs WG	DATE	MAY '14		BRISBANE CITY COUNCIL STANDARD DRAWING			
D	Colour Finish Requirements Updated	MAY '17	MAY '17	MAY '17		DRAWN	CPO - P&D	DATE	MAY '14		<div>ANODISED 240L ALTERNATIVE ASPECT – BIN UNIT DESIGN SHEET 2 OF 2</div>	SCALE AS SHOWN		
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	BI - FSG - WS	DATE	MAY '14			DWG No.	BSD-7302	
B	Amendment to Bin Details	MAY '14	MAY '14	MAY '14		DRAWING FILENAME	BSD-7302 (C) Anodised - 240L-Alternate Aspect - Bin Unit Design - Sheet 2 of 2.dwg					ORIGINAL SIZE	REVISION	
A	Drawing Converted From UMS Series May 2014	MAY '14	MAY '14	MAY '14		ASSOCIATED PLANS						A3	D	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE										

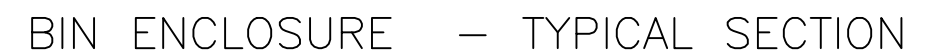





- ENSURE BIN ENCLOSURES ARE LOCATED IN ACCORDANCE WITH PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- WHERE APPLICABLE – INCORPORATE BIN ENCLOSURE AS PART OF INTEGRATED PICNIC SETTING NODES (REFER BSD-10101 – SHEETS 1-2).
- AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT 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.
- COLOUR SELECTION IN ACCORDANCE WITH STANDARD BCC CORPORATE COLOUR PALETTE (& AS 2700 EQUIVALENT). IF NO COLOUR SPECIFIED, BIN ENCLOSURES TO BE INSTALLED AS MANUFACTURED.
- ENSURE BIN ENCLOSURES ARE 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 PAVEMENT AREA.
- ENSURE GARDEN AREAS (MULCH) FINISH 25mm BELOW ADJACENT F.S.L's OF PAVEMENT AREA.  
BIN MAKE, MODEL AND FINISH AS SPECIFIED ON PLANS.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

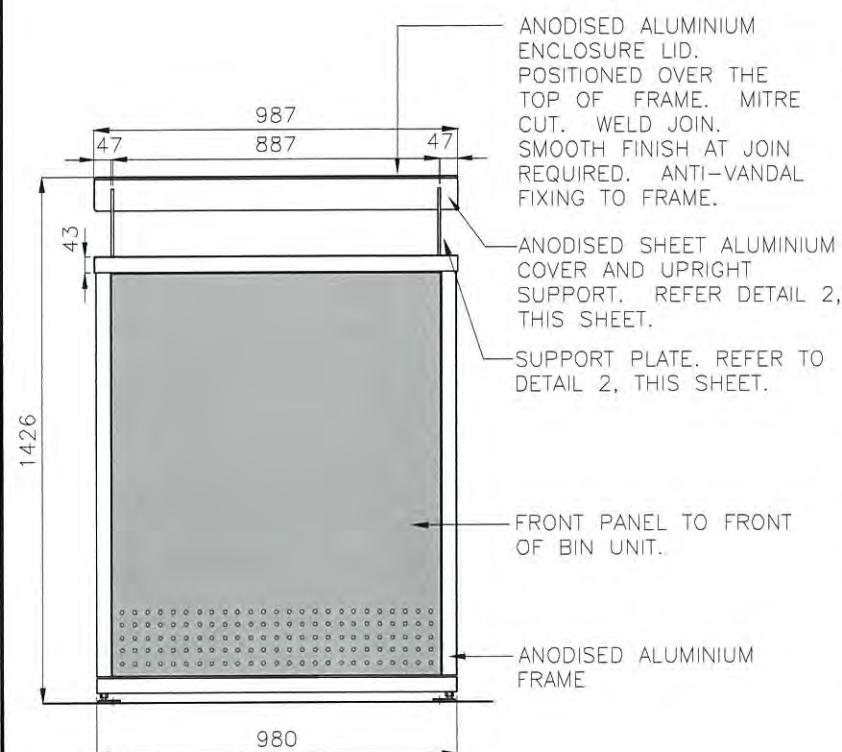
- ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS4100 & AS/NZS 1554. ALL METAL FINISHES TO BE IN ACCORDANCE WITH AS 4506.
- ALL FIXTURES/FITTINGS UNLESS SPECIFIED ARE TO BE HOT DIPPED GALVANISED UNLESS IN VICINITY OF SALTWATER/SPRAY, ENSURE ALL FASTENERS SHALL BE STAINLESS STEEL. PLASTIC 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.
- ALL WELDS TO BE CONTINUOUS FILLET WELDS, GROUND OFF SMOOTH & FLUSH IN ACCORDANCE WITH AS 1554. GRIND SMOOTH EDGES & WELDS PRIOR TO H.D.G. OR APPLIED FINISHES.

- 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.
- FOR SLIP RESISTANCE REQUIREMENTS REFER SPECIFICATION S150 ROADWORKS.

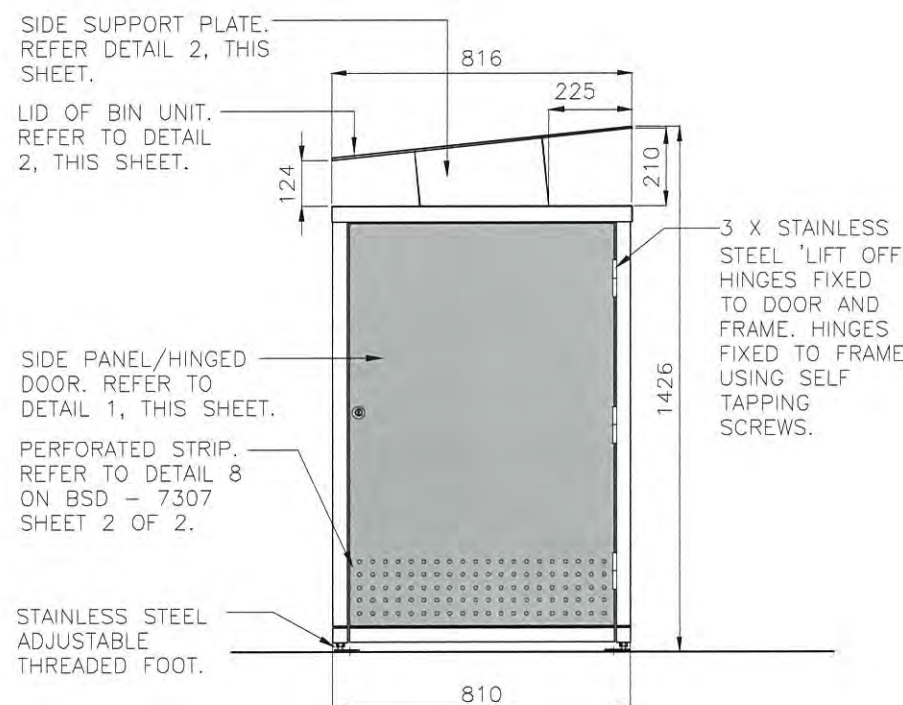


					DRAWING AUTHORISED FOR PUBLICATION PAUL COTTON SIGNATURE ON ORIGINAL DATED 03/09/04 MANAGER INFRASTRUCTURE MANAGEMENT R.P.E.O: 2546	DESIGN	Std Dwgs WG	DATE	OCT '13		BRISBANE CITY COUNCIL STANDARD DRAWING			
						DRAWN	CPO - P&D	DATE	OCT '13		<div>PARKS WHEELIE BIN ENCLOSURE</div>	SCALE 1:20		
						CHECKED	UMD - E&P & IMB	DATE	OCT '13			DWG No.	BSD-7305	
						DRAWING FILENAME	BSD-7305 (A) Parks wheelie bin enclosure.dwg					ORIGINAL SIZE	A3	
						ASSOCIATED PLANS	SUPERSEDES UMS-712					REVISION	A	
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								
ISSUE	AMENDMENT		DRAWN DATE	CHK'D DATE	APPR'D DATE	PRICIPAL PROGRAM OFFICER PARKS								

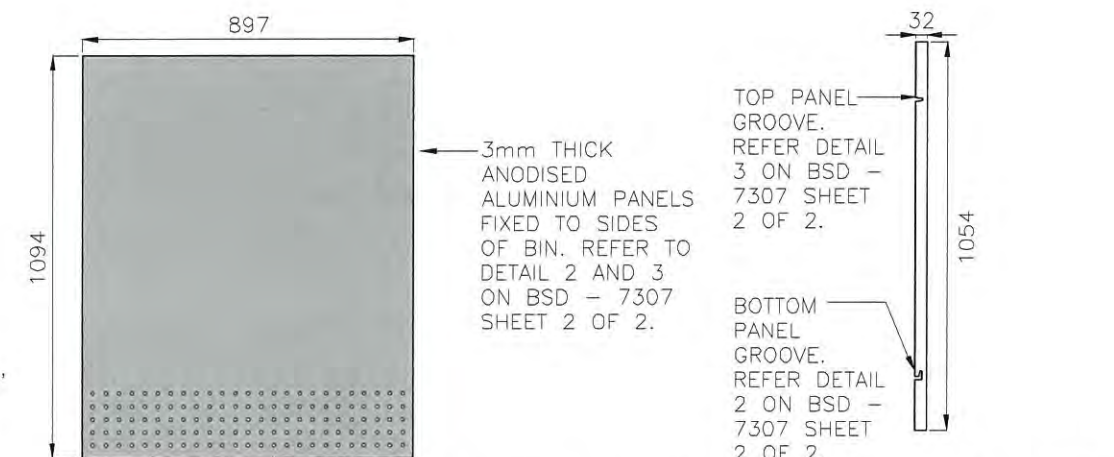




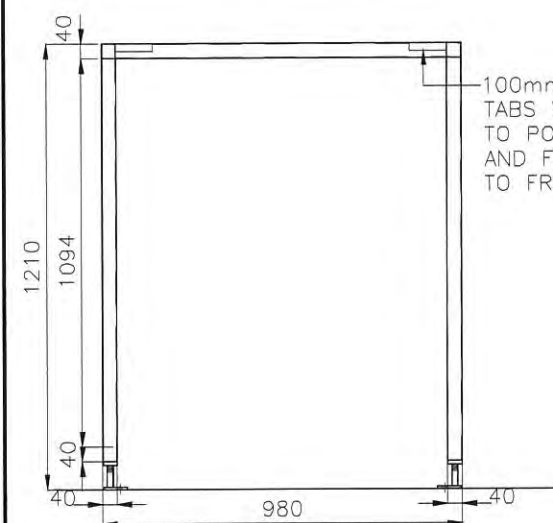
**FRONT ELEVATION**  
SCALE 1:20



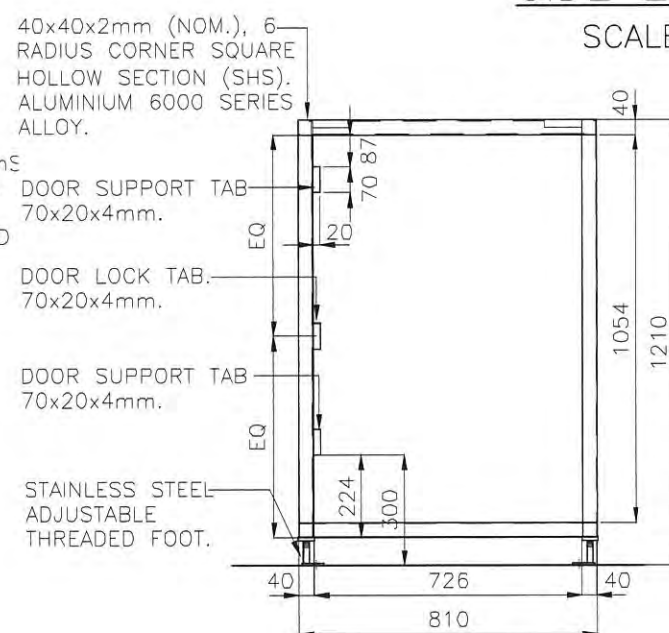
**SIDE ELEVATION**  
SCALE 1:20



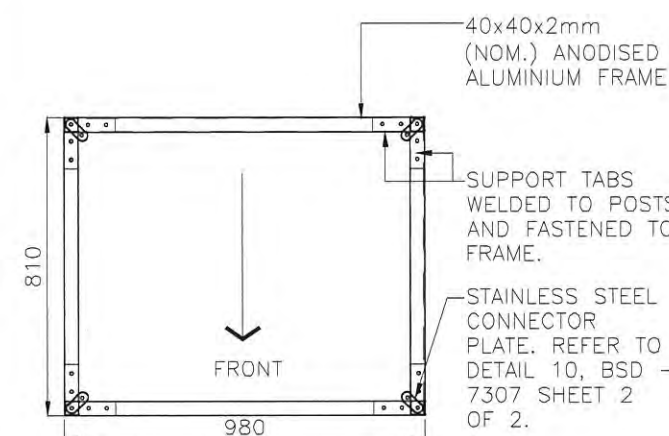
**FRONT AND BACK PANEL** SCALE 1:20  
**PANEL - END VIEW** SCALE 1:20



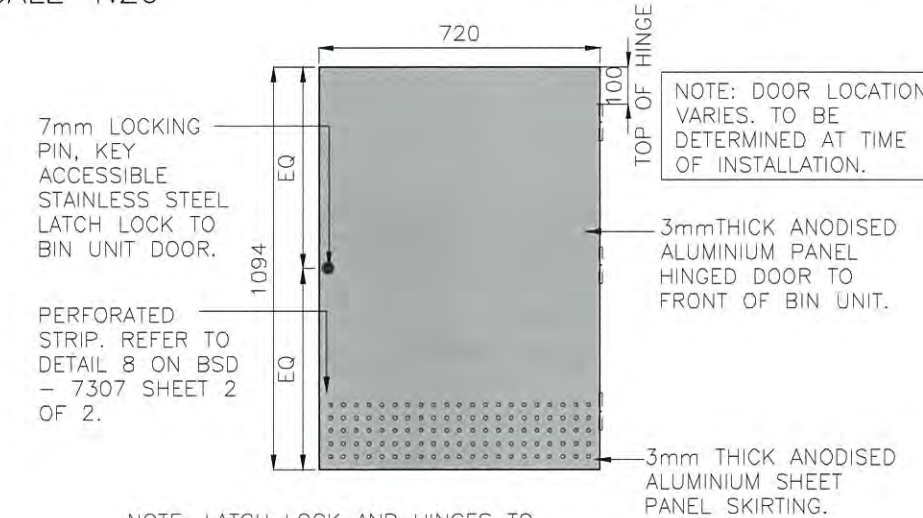
**FRAME - FRONT DETAIL**  
SCALE 1:20



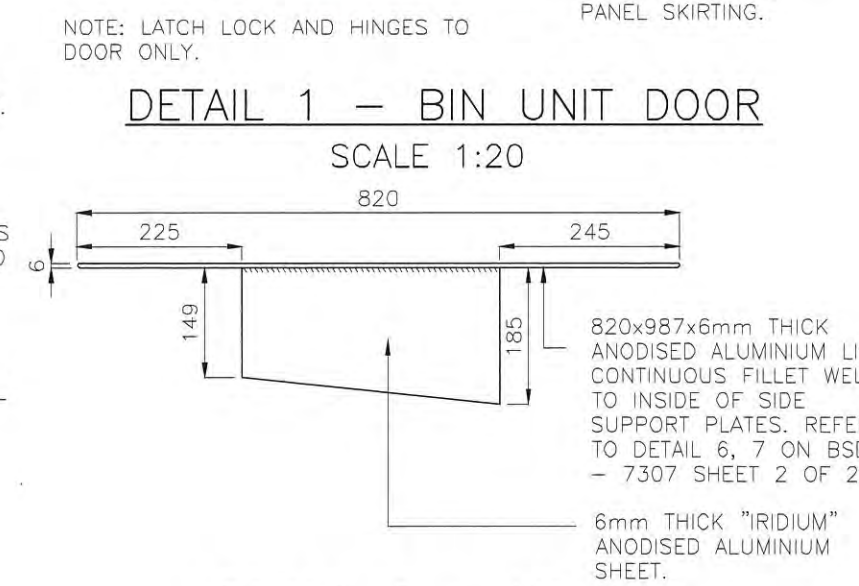
**FRAME - SIDE DETAIL**  
SCALE 1:20



**FRAME PLAN**  
SCALE 1:20




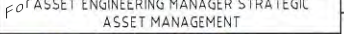
**DETAIL 1 - BIN UNIT DOOR**  
SCALE 1:20



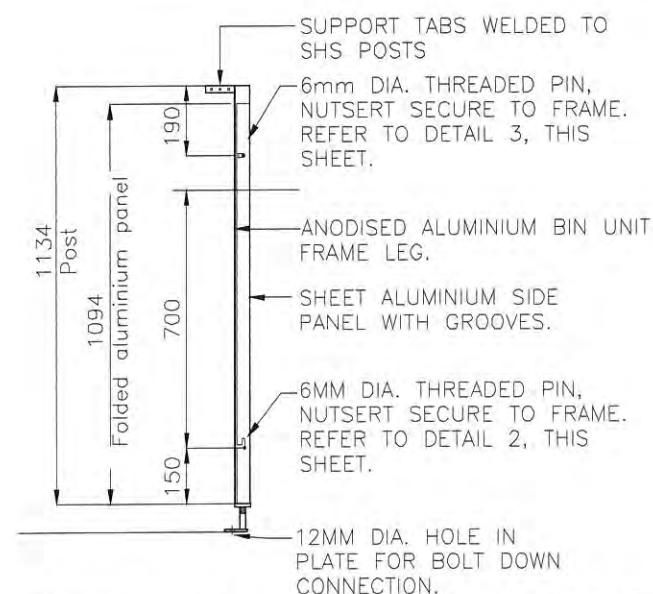
**DETAIL 2 - LID AND SUPPORT PLATE**  
SCALE 1:10

**DISCLAIMER:**  
MANUFACTURED UNDER AUSTRALIAN PATENT NO. 2011100749 WITH PERMISSION OF THE INVENTOR.

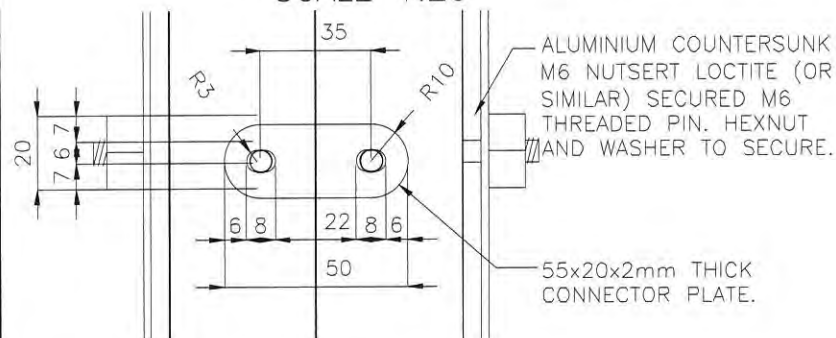
**NOTES**  
REFER TO BSD - 7307 SHEET 2 OF 2 FOR FINISHES & COLOUR SCHEDULE AND DETAILS.

					DRAWING AUTHORISED FOR PUBLICATION	DESIGN	Std Dwgs WG	DATE	MAY '14		BRISBANE CITY COUNCIL STANDARD DRAWING		
					FOR ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	CP0 - P&D	DATE	MAY '14		SCALE	AS SHOWN	
					DESIGN APPROVED	CHECKED	BI - FSG - WS	DATE	MAY '14		DWG No	BSD-7307	
A	Drawing Converted From UMS Series May 2014	MAY '14	MAY '14	MAY '14		DRAWING FILENAME	BSD-7307_1of2.dwg				ORIGINAL SIZE	REVISION	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	LITTER PROGRAM OFFICER	ASSOCIATED PLANS					A3	A	





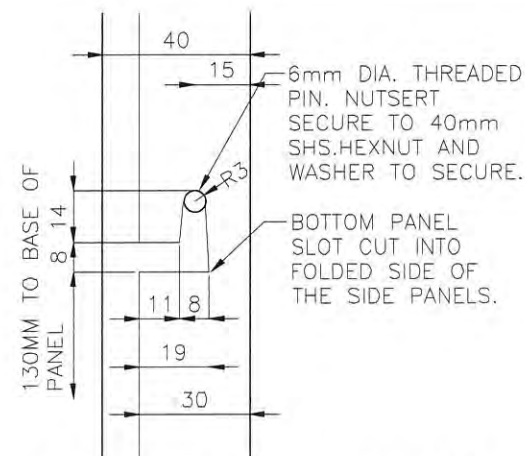
**DETAIL 1 - LEG TO PANEL CONNECTION**  
SCALE 1:20



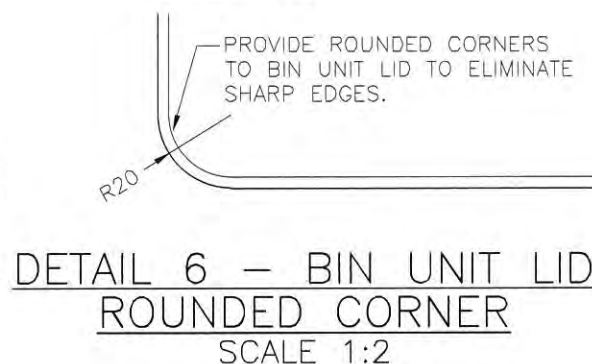
**DETAIL 5 - CONNECTOR PLATE**  
SCALE 1:2

FINISHES & COLOUR SCHEDULE	
ELEMENT	COLOUR/FINISH
FRONT AND SIDE PANELS	APPLIED TREATMENT "DULUX" METROPOLIS 'STORM PEARL' OR APPROVED EQUIVALENT
LID, FRAME, APRON	APPLIED CHEMICAL TREATMENT 'IRIDIUM' OR APPROVED EQUIVALENT
ALL OTHER COMPONENTS	ALUMINIUM UNLESS OTHERWISE NOTED

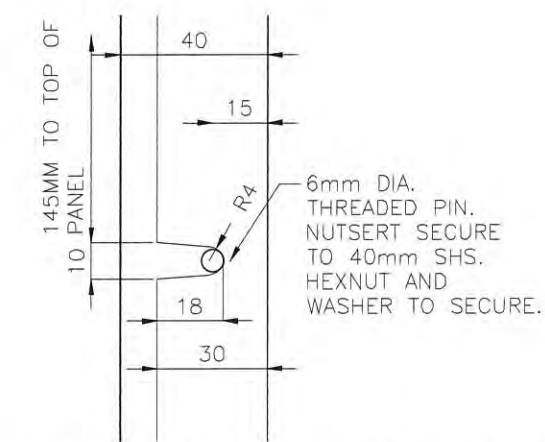
DISCLAIMER:  
MANUFACTURED UNDER AUSTRALIAN PATENT NO. 2011100749 WITH PERMISSION OF THE INVENTOR.



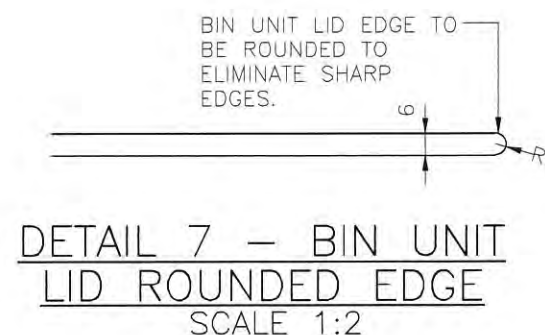
**DETAIL 2 - BOTTOM PANEL GROOVE**  
SCALE 1:2



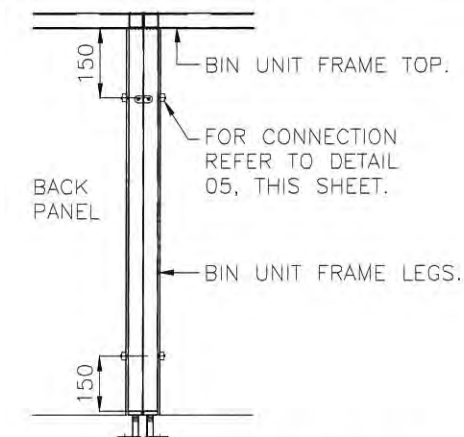
**DETAIL 6 - BIN UNIT LID ROUNDED CORNER**  
SCALE 1:2



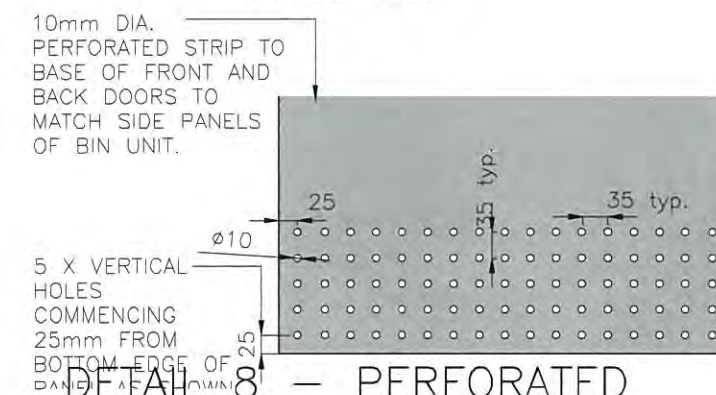
**DETAIL 3 - TOP PANEL GROOVE**  
SCALE 1:2



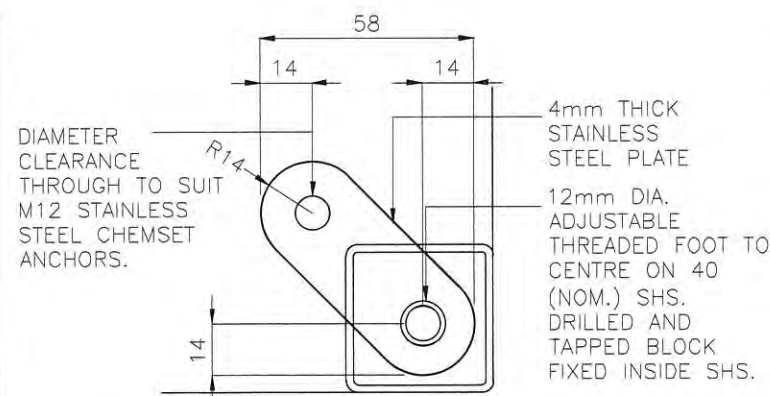
**DETAIL 7 - BIN UNIT LID ROUNDED EDGE**  
SCALE 1:2



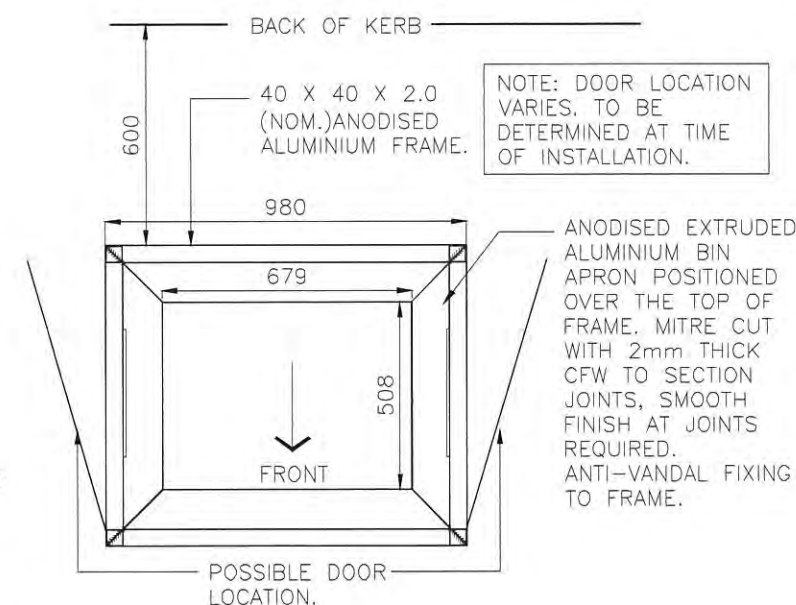
**DETAIL 4 - BIN UNIT TO BIN UNIT**  
SCALE 1:20



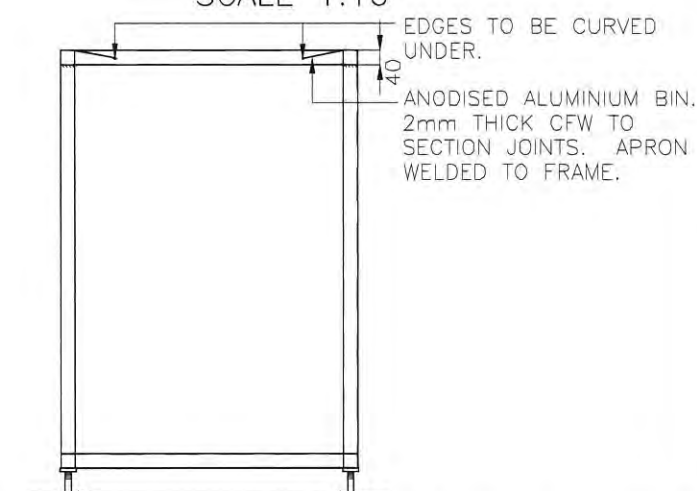
**DETAIL 8 - PERFORATED STRIP**  
SCALE 1:10




**DETAIL 9 - PLAN DETAIL**  
SCALE 1:2



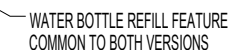
**DETAIL 10 - BIN APRON (TOP)**  
SCALE 1:20



**DETAIL 11 - BIN APRON (SIDE)**  
SCALE 1:20

					DRAWING AUTHORISED FOR PUBLICATION		DESIGN		Std Dwgs -WG	DATE	MAY '14		BRISBANE CITY COUNCIL STANDARD DRAWING		
					FORASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT		DRAWN		CP0 - P&D	DATE	MAY '14		SCALE AS SHOWN		
					DESIGN APPROVED		CHECKED		BI - FSG -WS	DATE	MAY '14		DWG No BSD-7307		
A Drawing Converted From UMS Series May 2014					MAY '14	MAY '14	MAY '14	DRAWING FILENAME		BSD-7307_2of2.dwg			ORIGINAL SIZE A3		
ISSUE	AMENDMENT				DRAWN DATE	CHK'D DATE	APPR'D DATE	LITTER PROGRAM OFFICER		ASSOCIATED PLANS		SHEET 2 OF 2 - DETAILS			
													REVISION A		






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

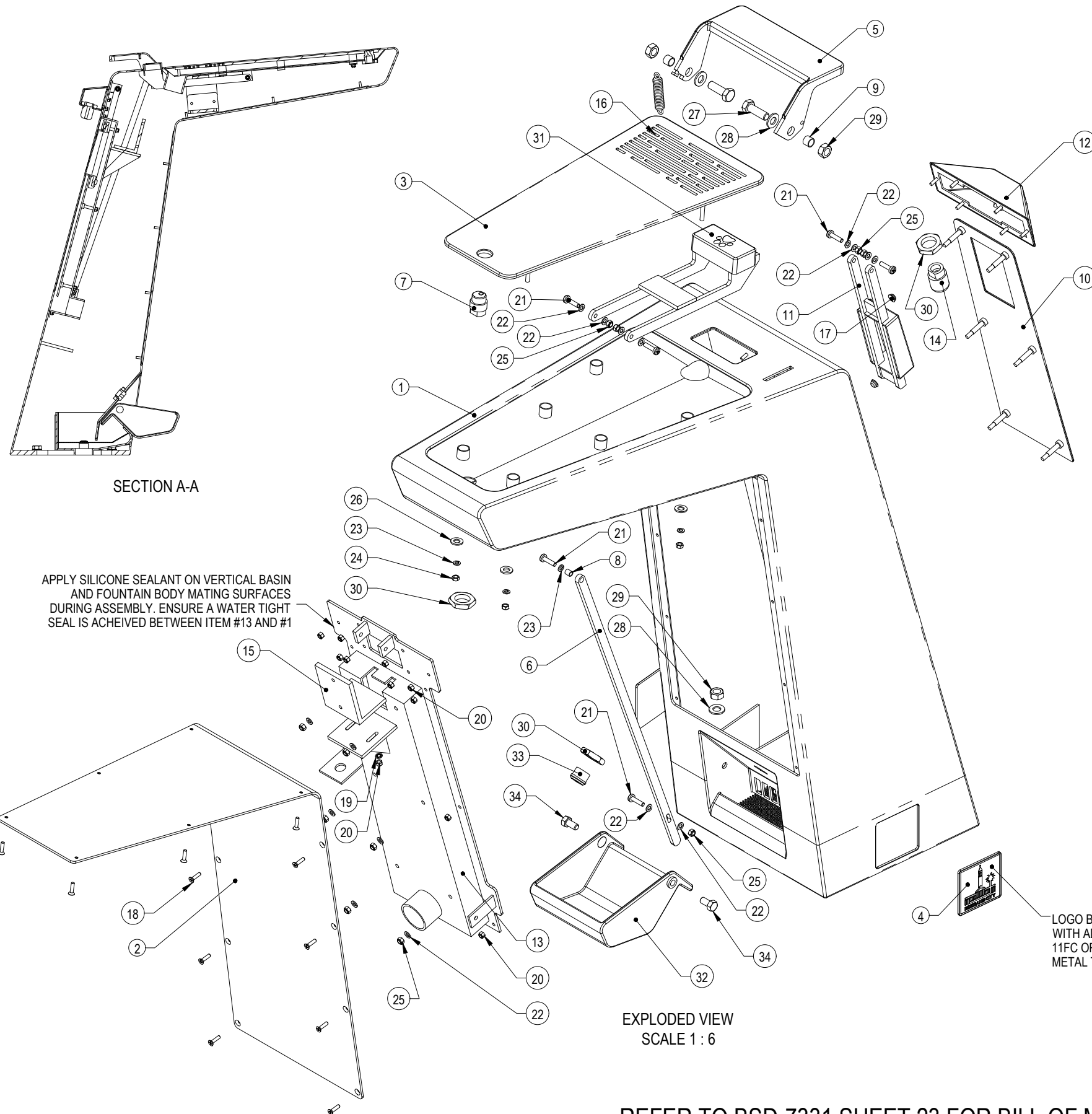
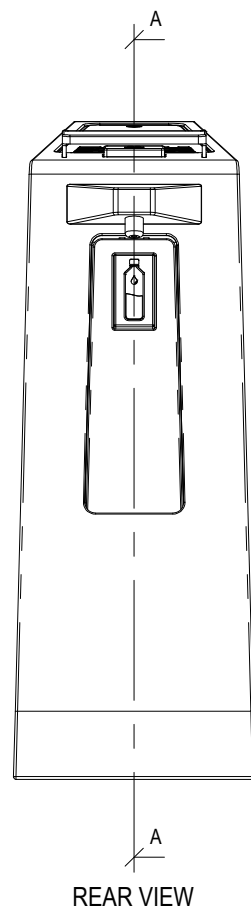
- ## NOTES

- ## MATERIAL

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

SIGNATURE: ON ORIGINAL DATE: 10 / 05 / 18

					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014</div> <div>----- 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	FORM200 DESIGN	DATE	JUN '12		<div>BRISBANE CITY COUNCIL STANDARD DRAWING</div> <div>DRINKING FOUNTAIN SHEET 1 OF 27</div>			SCALE 1:10		
C	Dog Bowl Addition	MAY '18	JUN '18	NOV '18		DRAWN	AB	DATE	JUN '12					DWG No.	BSD-7331	
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15		CHECKED	VM	DATE	APR '13					ORIGINAL SIZE	REVISION	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-7331 (C) Drinking fountain - Sheet 1 of 27							A3	C	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS-569									



SECTION A-A

## 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, AUSTROADS.
5. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
6. AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
7. AS4680:2006, HOT DIP GALVANISING.

## 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: SEE COMPONENT DRAWING
2. COLOUR: SEE COMPONENT DRAWING
3. FINISH: SEE COMPONENT DRAWING

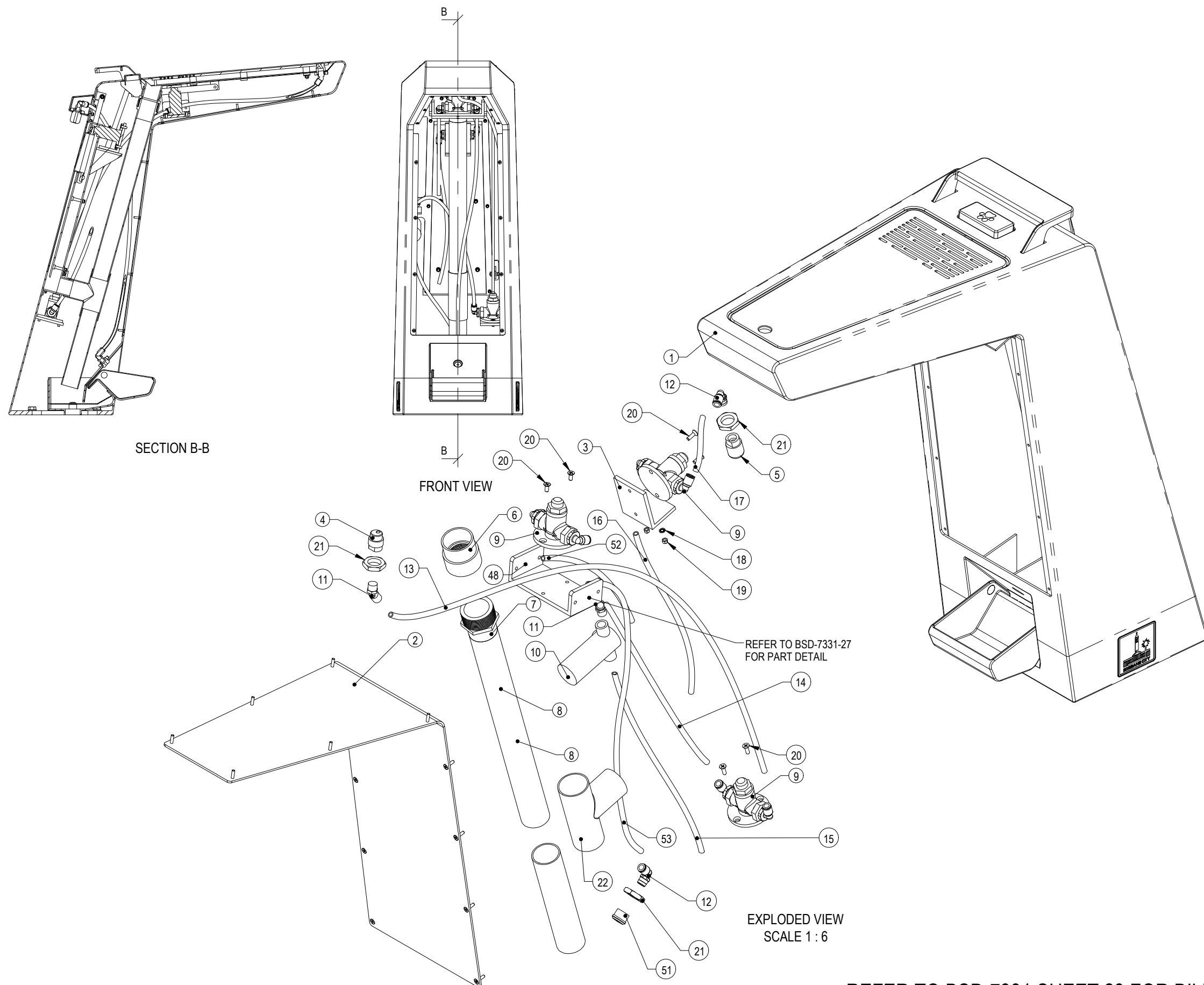
STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

REFER TO BSD-7331 SHEET 23 FOR BILL OF MATERIALS

					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIE AUTHORISED 15/04/2014</div> <div>----- 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	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18		DRAWN	AB	DATE	JUN '12		<div>DRINKING FOUNTAIN ASSEMBLY SHEET 2 OF 27</div>	SCALE 1:10	
C	Drawing Title Updated	FEB '16	JUL '18	JUL '16		CHECKED	VM	DATE	APR '13			DWG No. BSD-7331	
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15		DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Assembly - Sheet 2 of 27					ORIGINAL SIZE A3	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-569					REVISION D	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE									






- ### STANDARDS
- DESIGNED IN ACCORDANCE WITH, AND FABRICATION TO MEET THE FOLLOWING STANDARDS:
1. AS1428.4.1:2009, TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
  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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  5. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
  6. AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
  7. AS4680:2006, HOT DIP GALVANISING.

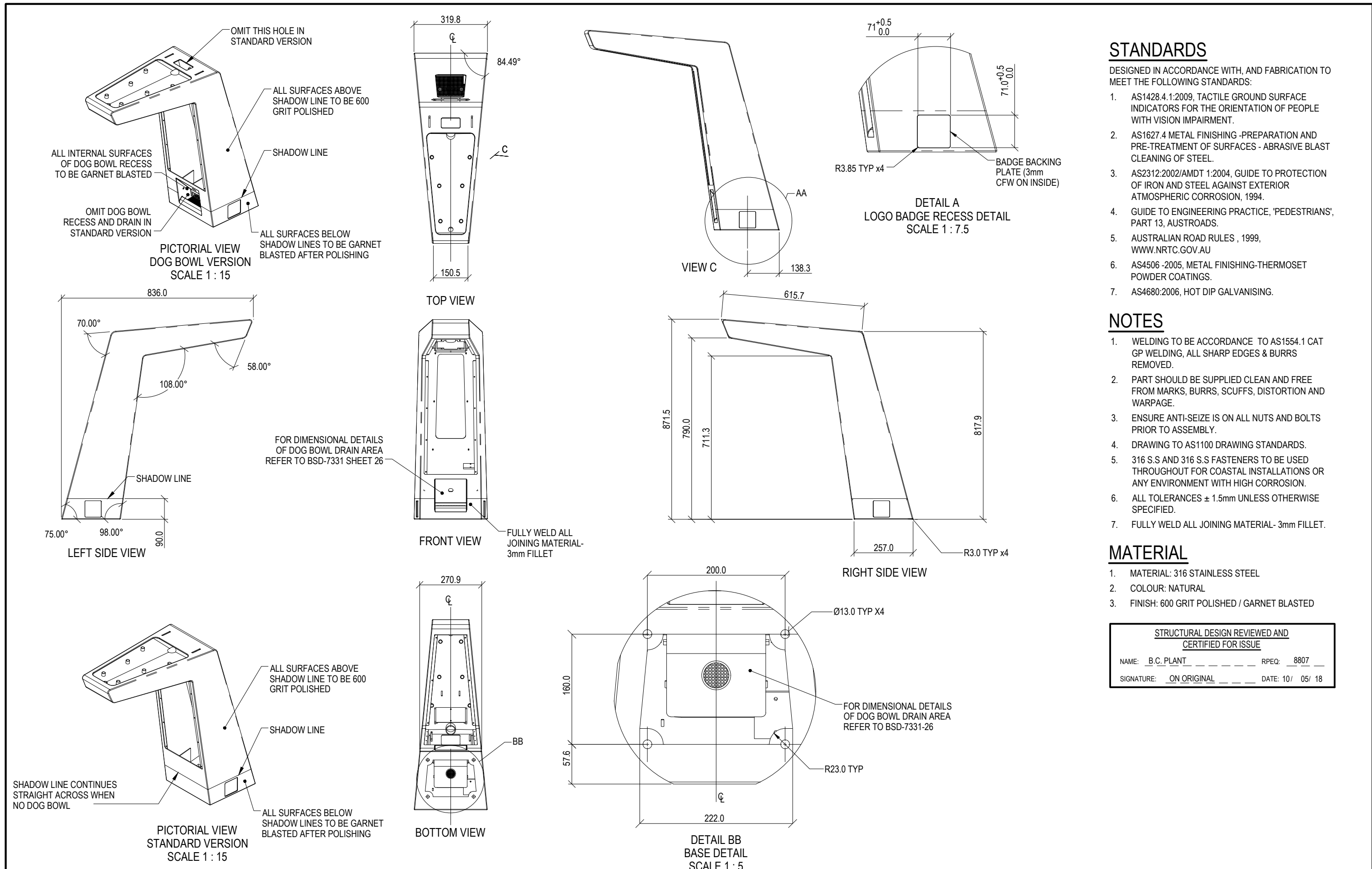
- ### NOTES
1. WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
  2. PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
  3. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
  4. DRAWING TO AS1100 DRAWING STANDARDS.
  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.
  7. FULLY WELD ALL JOINING MATERIAL - 3mm FILLET.

- ### MATERIAL
1. MATERIAL: 316 STAINLESS STEEL
  2. COLOUR: NATURAL
  3. FINISH: 600 GRIT POLISHED / GARNET BLASTING.

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE	
NAME: B.C. PLANT	RPEQ: 8807
SIGNATURE: ON ORIGINAL	DATE: 10/ 05/ 18

REFER TO BSD-7331 SHEET 23 FOR BILL OF MATERIALS

		MAY '18	JUN '18	AUG '18	<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014</div> <div>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	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
D	Dog Bowl Addition					DRAWN	AB	DATE	JUN '12				
C	Drawing Title Amended	FEB '16	JUL '18	JUL '16		CHECKED	VM	DATE	APR '13				
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15		DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Plumbing - Sheet 3 of 27						
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-569						
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE				DRINKING FOUNTAIN PLUMBING SHEET 3 OF 27			SCALE 1:10		
											DWG No. BSD-7331		
											ORIGINAL SIZE A3	REVISION D	



## 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, AUSTROADS.
- AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
- AS4680:2006, HOT DIP GALVANISING.

## NOTES


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- DRAWING TO AS1100 DRAWING STANDARDS.
- 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ALL TOLERANCES  $\pm 1.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.
- FULLY WELD ALL JOINING MATERIAL- 3mm FILLET.

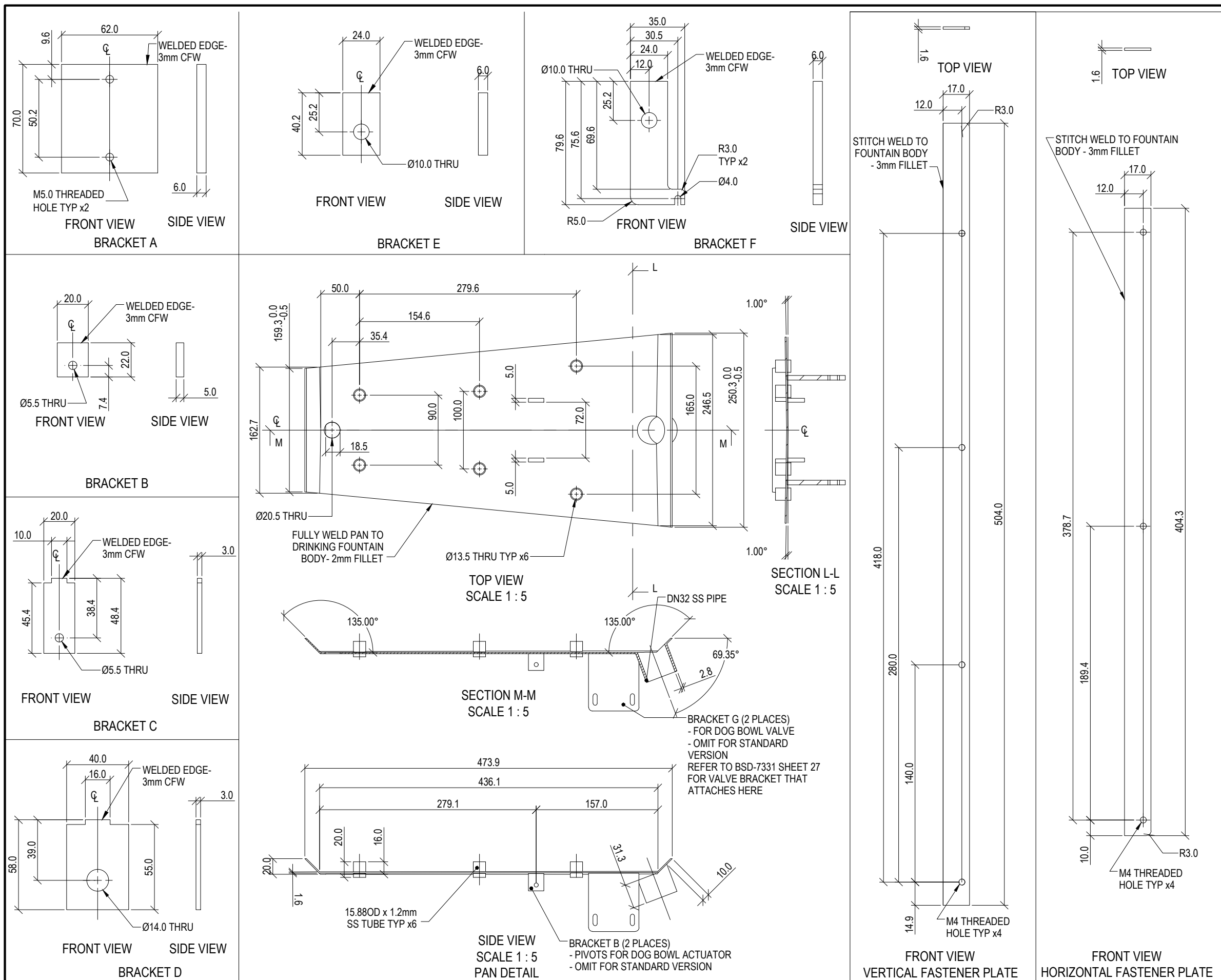
## MATERIAL

- MATERIAL: 316 STAINLESS STEEL
- COLOUR: NATURAL
- FINISH: 600 GRIT POLISHED / GARNET BLASTED

### STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

					<div>DRAWING AUTHORISED FOR PUBLICATION</div> <div>INGA CONDRIK AUTHORISED 15/04/2014</div> <div>ASSET ENGINEERING MANAGER</div> <div>STRATEGIC ASSET MANAGEMENT</div> <div>DESIGN APPROVED</div> <div>VICKI MARTIN SIGNATURE ON ORIGINAL</div> <div>PRINCIPAL PLANNING OFFICER</div> <div>URBAN DESIGN</div>	DESIGN	FORMZ00 DESIGN	DATE	JUN '12		<div>BRISBANE CITY COUNCIL STANDARD DRAWING</div> <div>DRINKING FOUNTAIN BODY</div> <div>SHEET 4 OF 27</div> <div>SCALE 1:15</div> <div>DWG No. BSD-7331</div> <div>ORIGINAL SIZE A3</div> <div>REVISION D</div>		
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18		DRAWN	AB	DATE	JUN '12				
C	Drawing Title Amended	FEB '16	JUL '18	JUL '16		CHECKED	VM	DATE	APR '13				
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15		DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Body - Sheet 4 of 27						
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-569						
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE									



## STANDARDS

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

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## NOTES

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- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- DRAWING TO AS1100 DRAWING STANDARDS.
- 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ALL TOLERANCES  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.

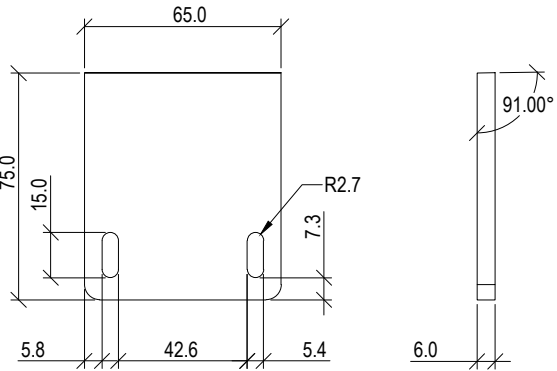
## MATERIAL

- MATERIAL: 316 STAINLESS STEEL
- COLOUR: NATURAL
- FINISH: 600 GRIT POLISHED / GARNET BLASTED

### STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18



BRACKET G  
(FOR DOG BOWL VERSION ONLY)

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14

<b>DRAWING AUTHORISED FOR PUBLICATION</b> INGA CONDRIK AUTHORISED 15/04/2014
<b>ASSET ENGINEERING MANAGER</b> STRATEGIC ASSET MANAGEMENT
<b>DESIGN APPROVED</b> VICKI MARTIN SIGNATURE ON ORIGINAL
<b>PRINCIPAL PLANNING OFFICER</b> URBAN DESIGN

DESIGN	FORMZOO DESIGN	DATE	JUN '12
DRAWN	AB	DATE	JUN '12
CHECKED	VM	DATE	APR '13
DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Body details - Sheet 5 of 27		
ASSOCIATED PLANS	SUPERSEDES UMS-569		



## BRISBANE CITY COUNCIL STANDARD DRAWING

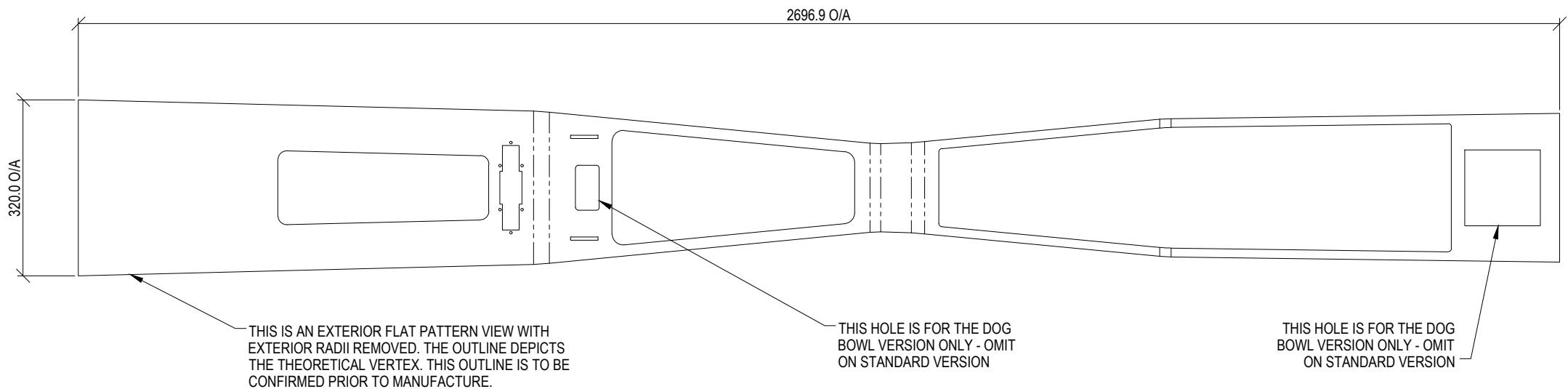
DRINKING FOUNTAIN  
BODY DETAILS  
SHEET 5 OF 27

SCALE 1:2.5

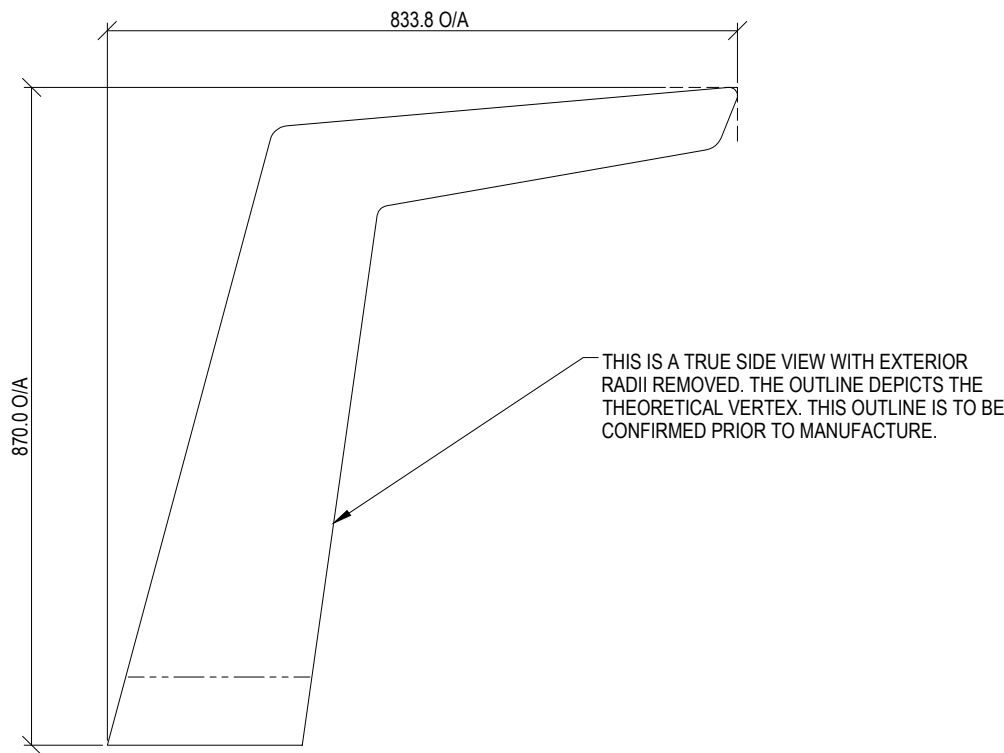
DWG No. BSD-7331

ORIGINAL SIZE A3

REVISION D



TRUE SIDE VIEW  
(1:10) - NOT FULL SCALE  
FABRICATOR TO REVIEW SCALE BEFORE USING FLAT PATTERN



TRUE SIDE VIEW  
(1:10) - NOT FULL SCALE  
FABRICATOR TO REVIEW SCALE BEFORE USING FLAT PATTERN

STANDARDS

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

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- 5. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- 6. AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
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- 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: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: 600 GRIT POLISHED / GARNET BLASTED

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	CHECKED	VM	DATE	APR '13		
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Body flat pattern - Sheet 6 of 27				
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569				
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE							

DRINKING FOUNTAIN  
BODY - FLAT PATTERN  
SHEET 6 OF 27

SCALE  
1:10

DWG No.  
BSD-7331

ORIGINAL SIZE  
A3

REVISION  
D



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.

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.

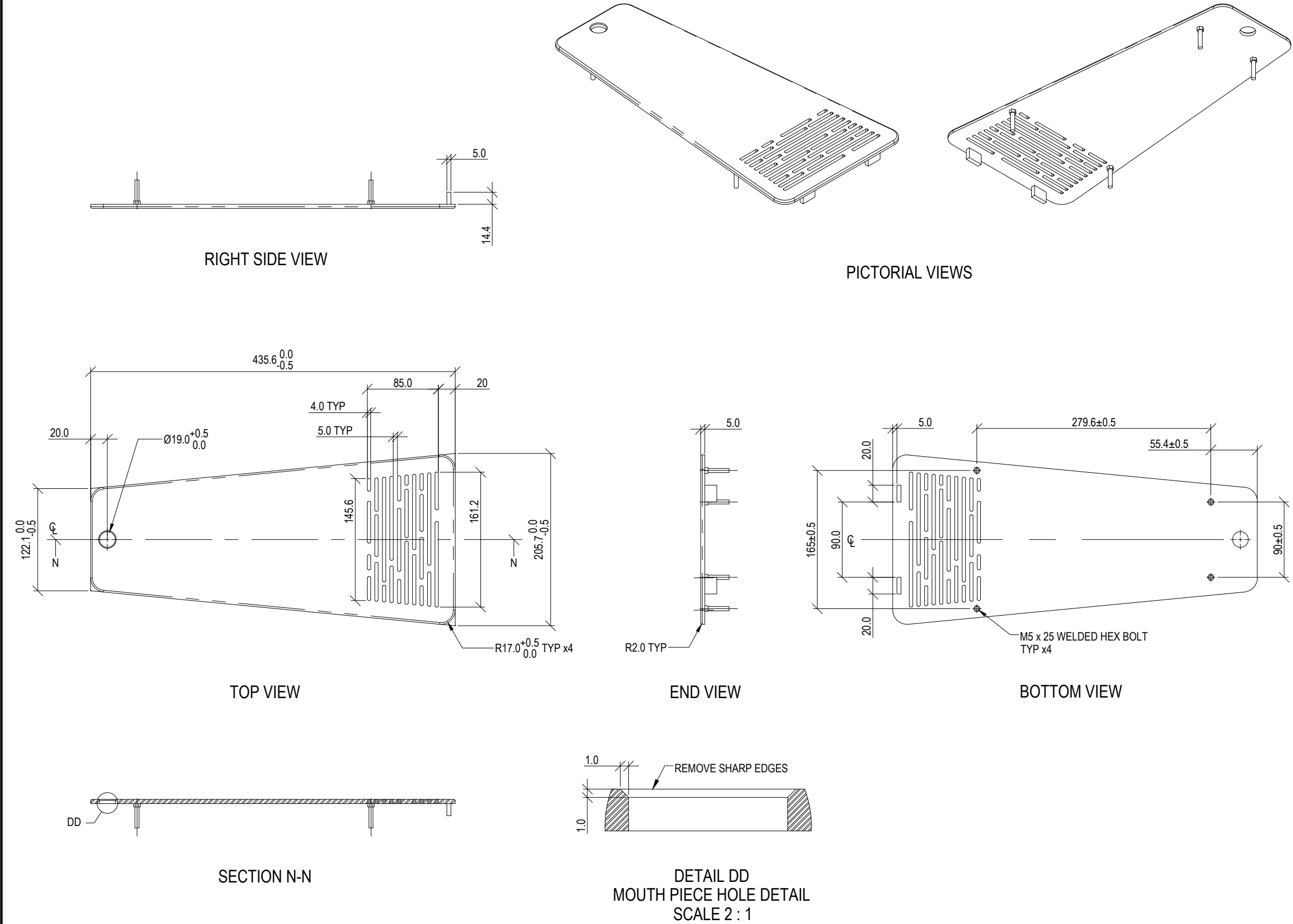
MATERIAL


- 1. MATERIAL: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: HIGHLY POLISHED

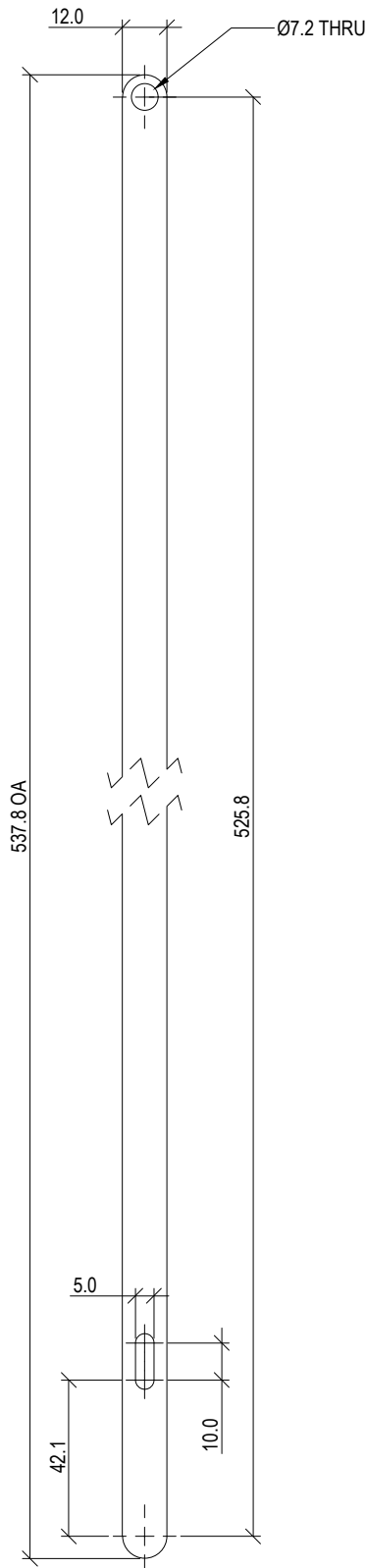
STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807

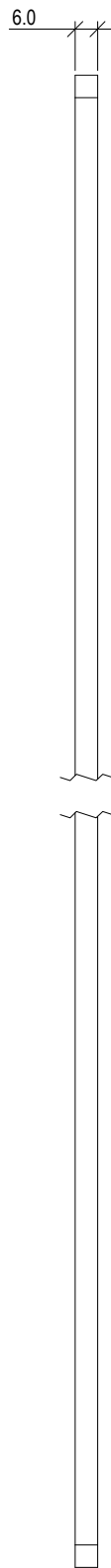
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18



					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT  DESIGN APPROVED  VICKI MARTIN SIGNATURE ON ORIGINAL  PRINCIPAL PLANNING OFFICER URBAN DESIGN	DRAWN	AB	DATE	JUN '12		SCALE 1:5		
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13		Dwg No. BSD-7331		
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15		DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Top plate - Sheet 7 of 27				ORIGINAL SIZE A3		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS 569				REVISION D		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE							DRINKING FOUNTAIN TOP PLATE SHEET 7 OF 27		



FRONT VIEW



SIDE VIEW



PICTORIAL VIEW

## 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.

## 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.

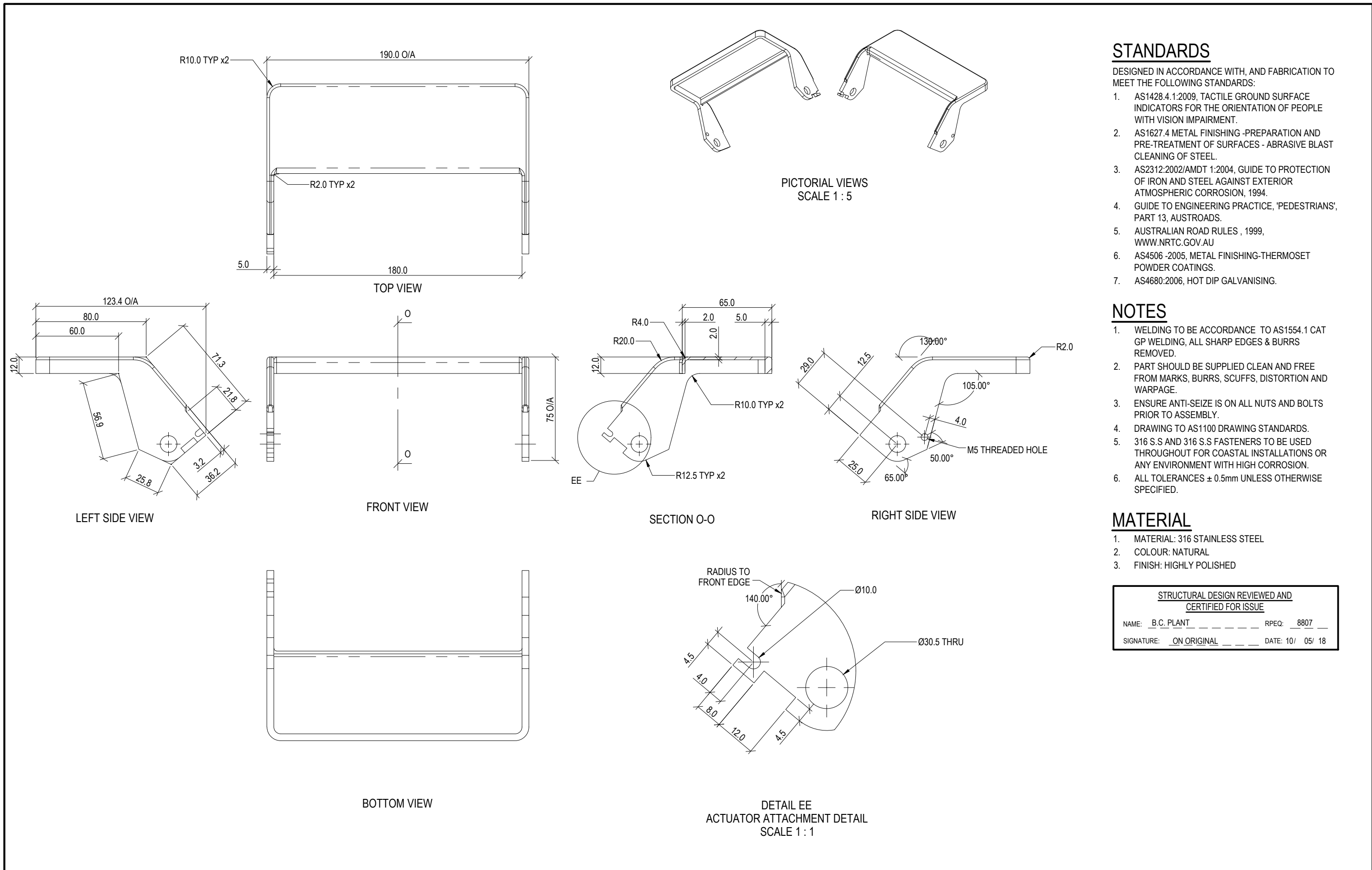
## MATERIAL

1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: DEBURRED

### STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

					<b>DRAWING AUTHORISED FOR PUBLICATION</b> INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	JUN '12		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>		
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE 1:2		
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16	<b>DESIGN APPROVED</b>	CHECKED	VM	DATE	APR '13		DWG No. BSD-7331		
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Actuator arm - Sheet 8 of 27				ORIGINAL SIZE A3		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569				REVISION D		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE							DRINKING FOUNTAIN ACTUATOR ARM SHEET 8 OF 27		



## 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, AUSTRROADS.
- AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
- AS4680:2006, HOT DIP GALVANISING.

## 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  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.

## MATERIAL

- MATERIAL: 316 STAINLESS STEEL
- COLOUR: NATURAL
- FINISH: HIGHLY POLISHED

### STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		DRINKING FOUNTAIN ACTUATOR SHEET 9 OF 27	SCALE 1:2.5	
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	CHECKED	VM	DATE	APR '13			DWG No. BSD-7331	
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Actuator - Sheet 9 of 27					ORIGINAL SIZE A3	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569					REVISION D	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE									

STANDARDS

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

- 1. AS1428.4.1:2009, TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
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- 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.

NOTES

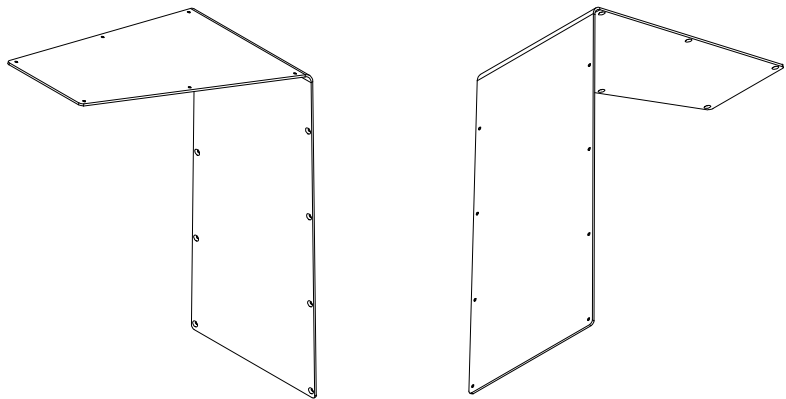
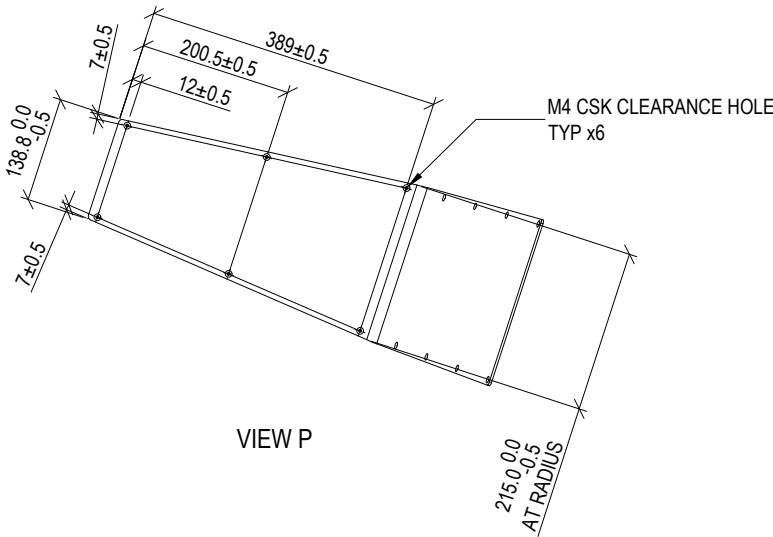
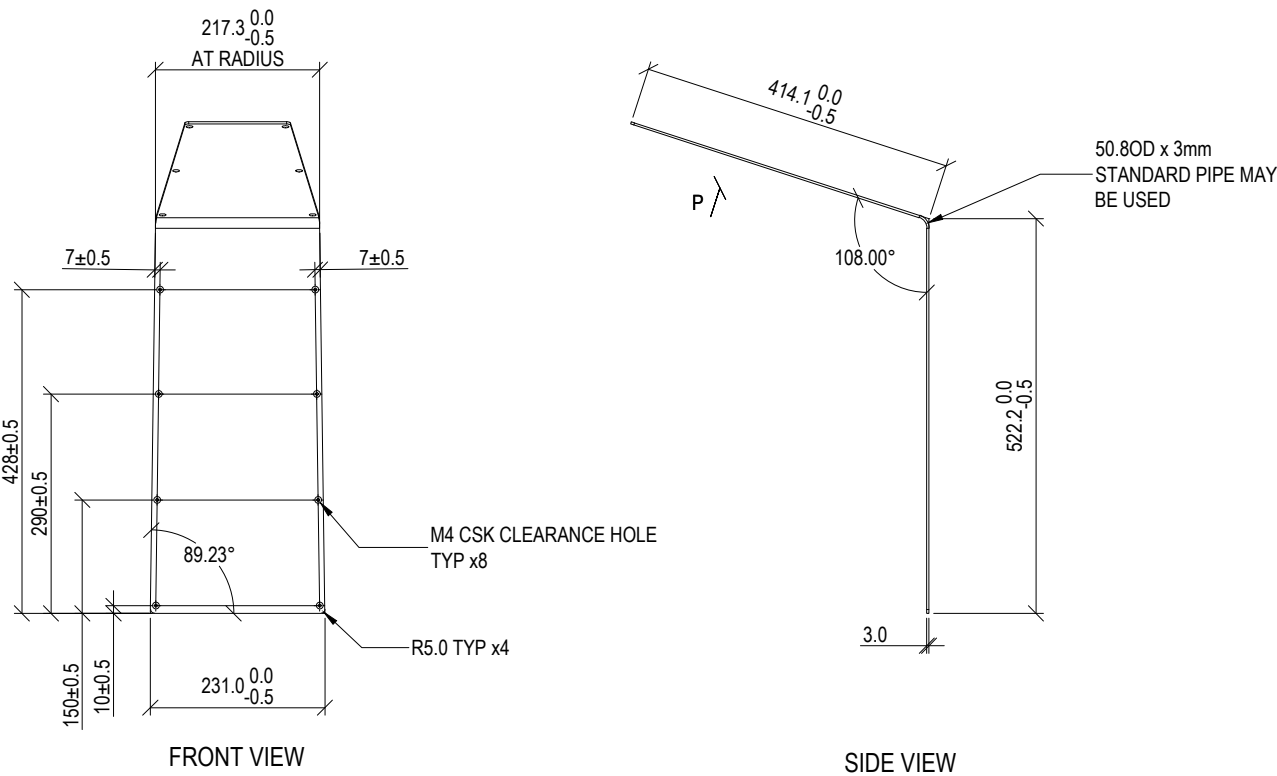
- 1. WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
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- 4. DRAWING TO AS1100 DRAWING STANDARDS.
- 5. 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- 6. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.

MATERIAL


- 1. MATERIAL: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: 600 GRIT POLISH

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

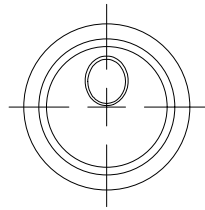
NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18



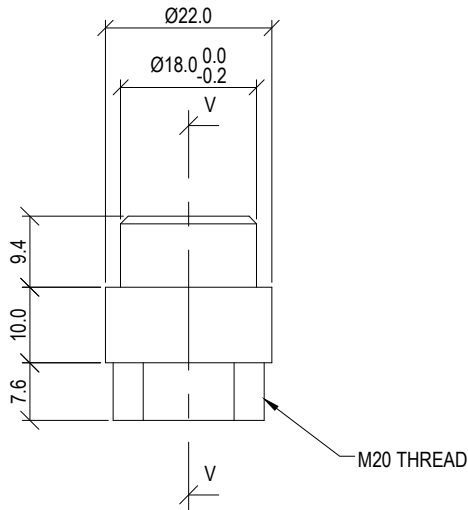
PICTORIAL VIEWS

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE	1:10		
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED  VICKI MARTIN SIGNATURE ON ORIGINAL	CHECKED	VM	DATE	APR '13		DWG No.	BSD-7331		
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15		DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Access panel - Sheet 10 of 27.dwg					ORIGINAL SIZE	REVISION	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-569					A3	D	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN						DRINKING FOUNTAIN ACCESS PANEL SHEET 10 OF 27			

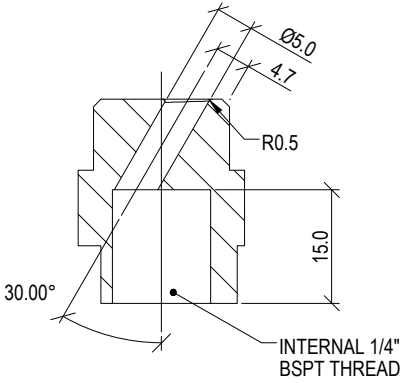




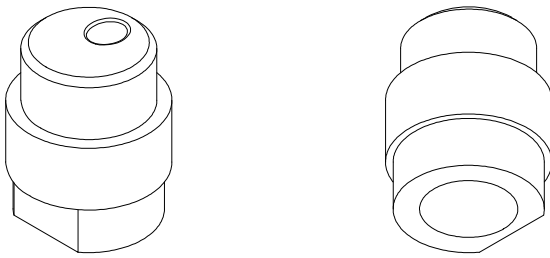
TOP VIEW



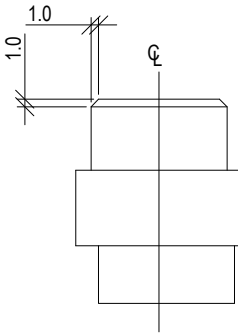
FRONT VIEW



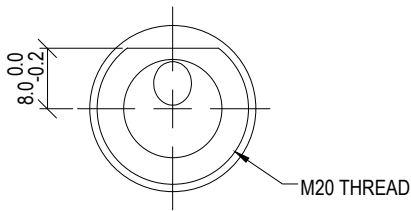
SECTION V-V



PICTORIAL VIEW



SIDE VIEW



BOTTOM 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.
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- AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
- AS4680:2006, HOT DIP GALVANISING.

## 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  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.

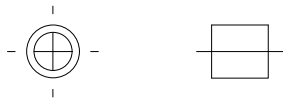
## MATERIAL

- MATERIAL: 316 STAINLESS STEEL
- COLOUR: NATURAL
- FINISH: 600 GRIT POLISHED

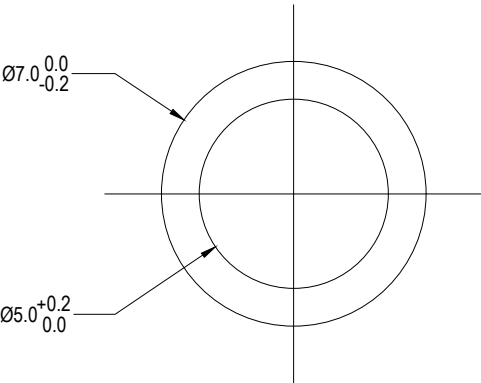
STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

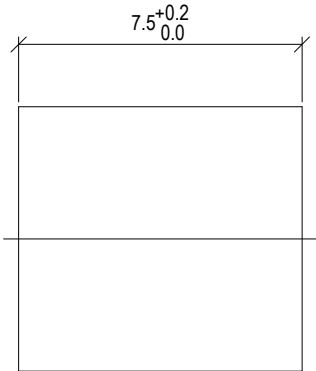
					<b>DRAWING AUTHORISED FOR PUBLICATION</b> INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16	<b>DESIGN APPROVED</b>	CHECKED	VM	DATE	APR '13		
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15	VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Mouth piece - Sheet 11 of 27				
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569				
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE							<div>DRINKING FOUNTAIN MOUTH PIECE SHEET 11 OF 27</div> <div>SCALE 1:1 DWG No. BSD-7331 ORIGINAL SIZE A3 REVISION D</div>



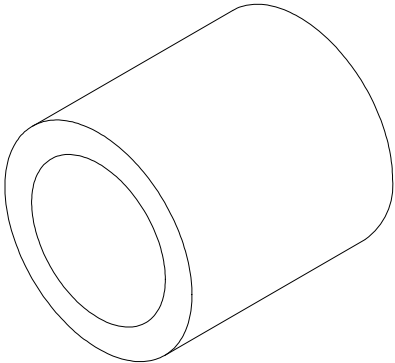
ACTUAL SIZE  
SCALE 1:1



FRONT VIEW



SIDE VIEW



PICTORIAL VIEW

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.
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- 5. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
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- 7. AS4680:2006, HOT DIP GALVANISING.

NOTES

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- 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  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.


MATERIAL

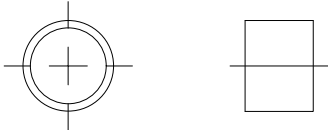
- 1. MATERIAL: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: DEBURRED

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

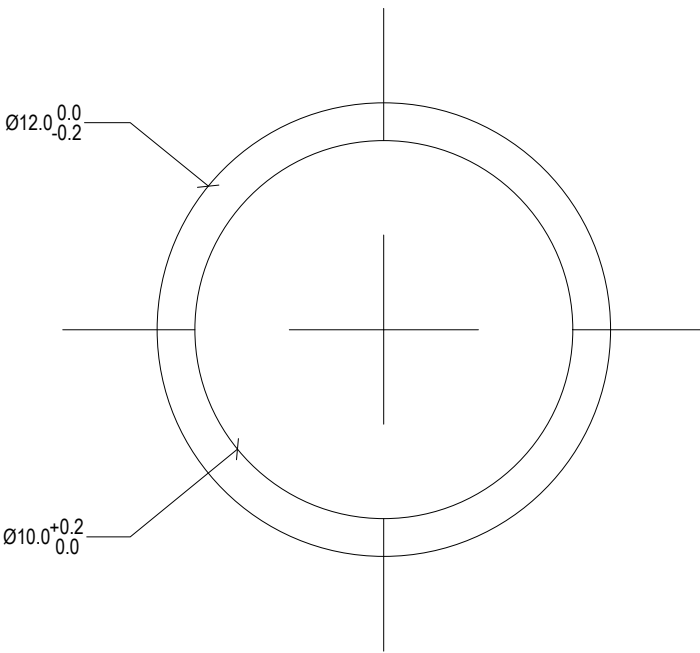
NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

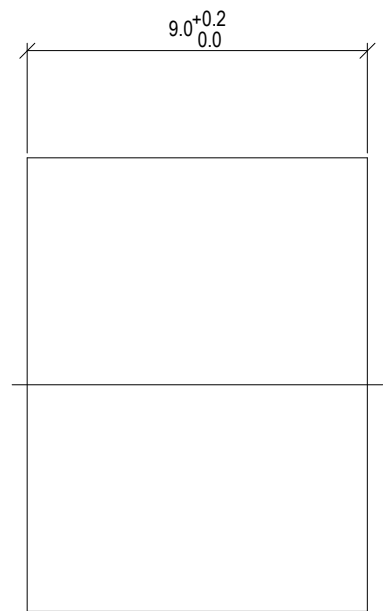
					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014</div>	DESIGN	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING	
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	<div>ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT</div> <div>DESIGN APPROVED</div> <div>VICKI MARTIN SIGNATURE ON ORIGINAL</div>	DRAWN	AB	DATE	JUN '12		SCALE 5:1	
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13		DWG No. BSD-7331	
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15		DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Actuator arm bush - Sheet 12 of 27				ORIGINAL SIZE A3	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	<div>PRINCIPAL PLANNING OFFICER URBAN DESIGN</div>	ASSOCIATED PLANS	SUPERSEDES UMS-569				REVISION D	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE							DRINKING FOUNTAIN ACTUATOR ARM BUSH SHEET 12 OF 27	



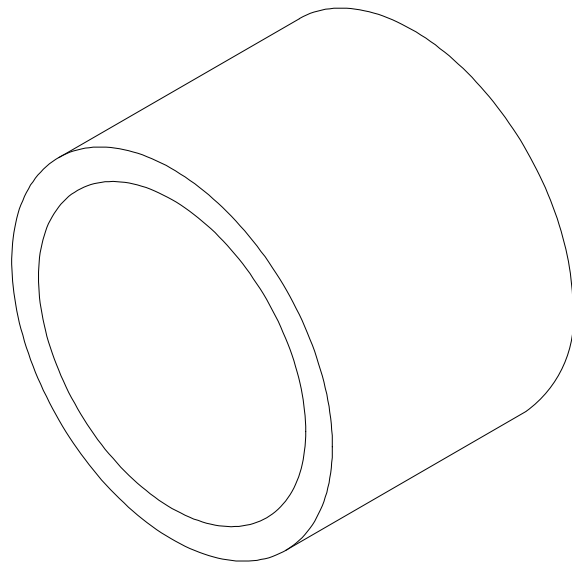
ACTUAL SIZE  
SCALE 1:1



FRONT VIEW



SIDE VIEW



PICTORIAL VIEW

## STANDARDS

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

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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  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.

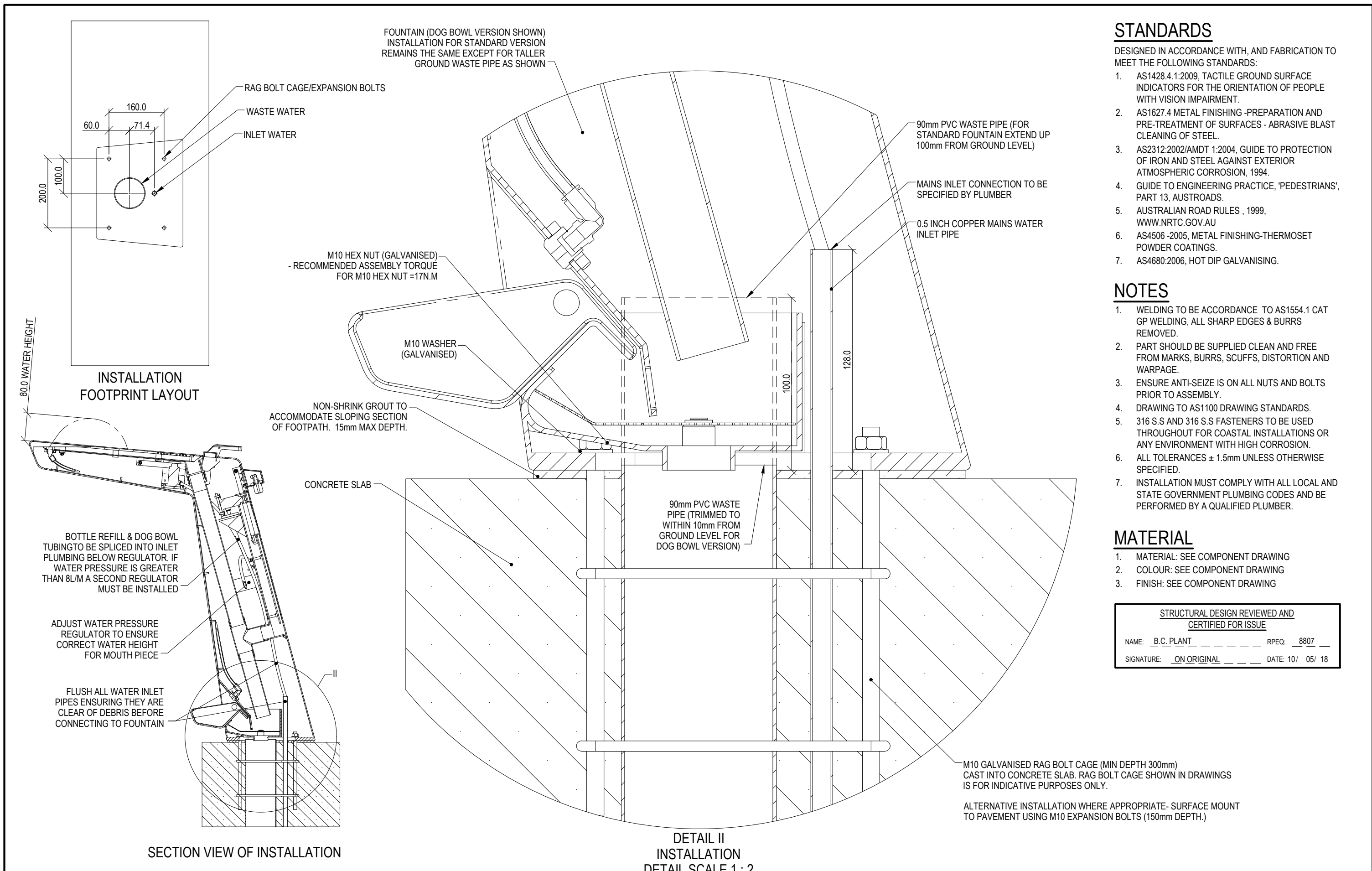
## MATERIAL

1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: DEBURRED

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

					<b>DRAWING AUTHORISED FOR PUBLICATION</b> INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>	
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	----- ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT <b>DESIGN APPROVED</b> VICKI MARTIN SIGNATURE ON ORIGINAL ----- PRINCIPAL PLANNING OFFICER URBAN DESIGN	DRAWN	AB	DATE	JUN '12		SCALE	5:1
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13		DWG No.	BSD-7331
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15		DRAWING FILENAME	BSD-7331 (C) Drinking fountain - Actuator bush - Sheet 13 of 23				ORIGINAL SIZE	A3
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-569				REVISION	D
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE							DRINKING FOUNTAIN ACTUATOR BUSH SHEET13 OF 27	



## 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.

## 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.
7. INSTALLATION MUST COMPLY WITH ALL LOCAL AND STATE GOVERNMENT PLUMBING CODES AND BE PERFORMED BY A QUALIFIED PLUMBER.


## MATERIAL

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

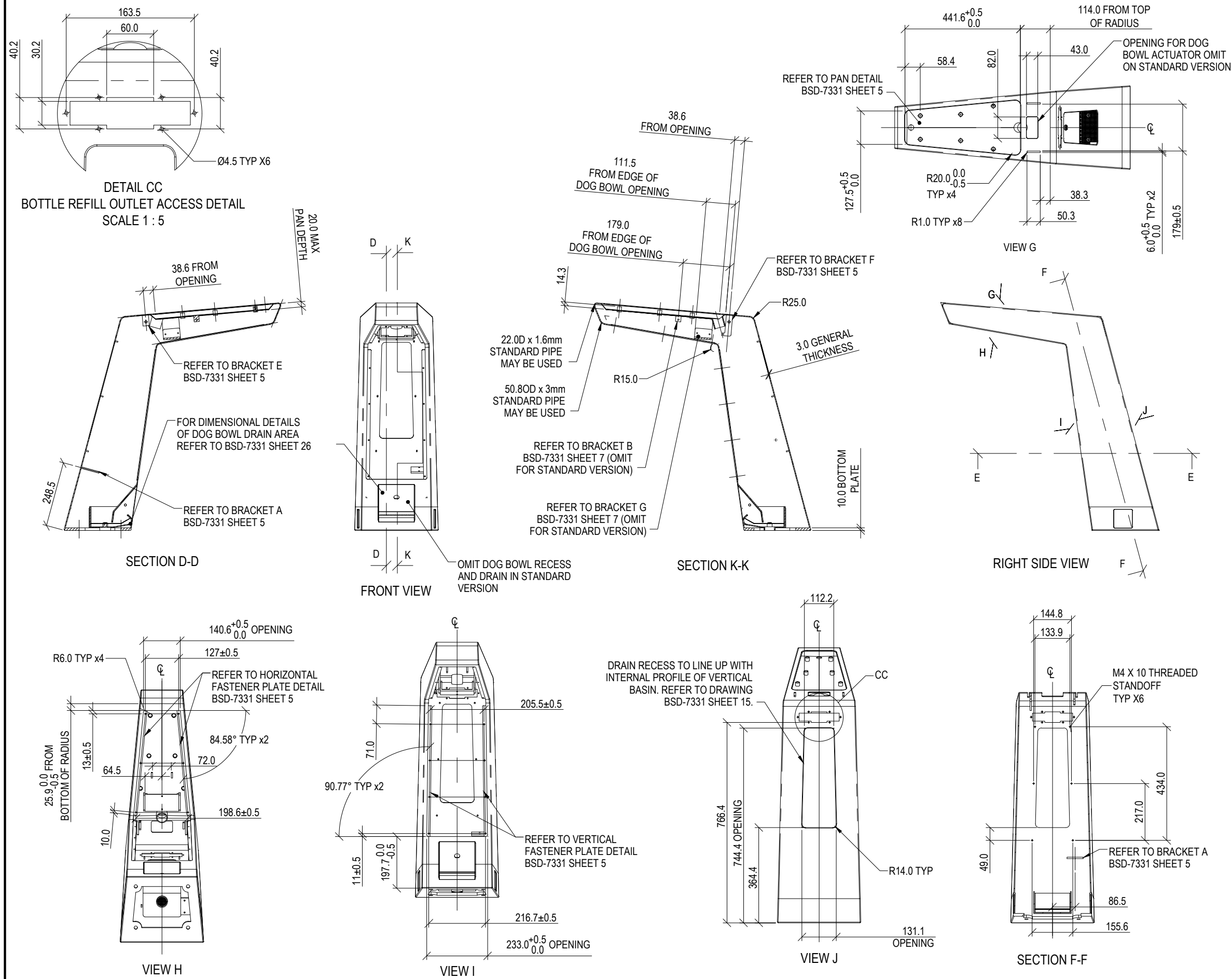
STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		DRINKING FOUNTAIN INSTALLATION SHEET 14 OF 27	SCALE 1:10	
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13			DWG No. BSD-7331	
B	Water bottle refill addition	JAN '15	JAN '15	JAN '15	DESIGN APPROVED		DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Installation - Sheet 14 of 27					ORIGINAL SIZE A3
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL		ASSOCIATED PLANS	SUPERSEDES UMS-569					
ISSUE		AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN							





## 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, AUSTRROADS.
- AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
- AS4680:2006, HOT DIP GALVANISING.

## 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.
- FULLY WELD ALL JOINING MATERIAL - 3mm FILLET.

## 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: 10/ 05/ 18

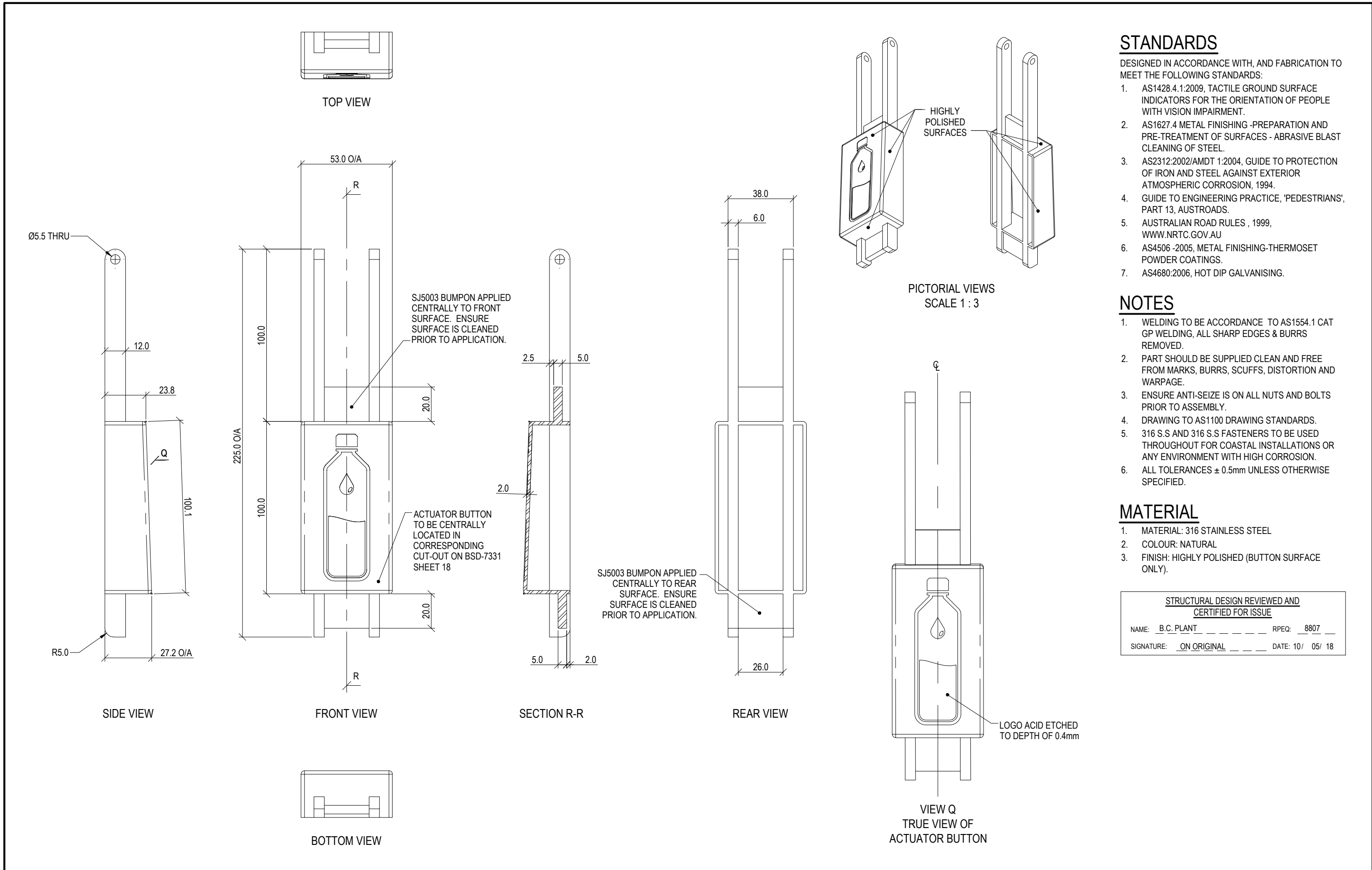
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
C	Dog Bowl Addition	MAY '18	JUN '18	NOV '18
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14

<b>DRAWING AUTHORISED FOR PUBLICATION</b> INGA CONDRC AUTHORISED 15/04/2014
ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT
<b>DESIGN APPROVED</b> VICKI MARTIN SIGNATURE ON ORIGINAL
PRINCIPAL PLANNING OFFICER URBAN DESIGN

DESIGN	FORMZOO DESIGN	DATE	JUN '12
DRAWN	AB	DATE	JUN '12
CHECKED	VM	DATE	APR '13
DRAWING FILENAME	BSD-7331 (C) Drinking fountain - Body auxiliary views - Sheet 15 of 27.dwg		
ASSOCIATED PLANS	SUPERSEDES UMS-569-1		



<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>	
DRINKING FOUNTAIN BODY - AUXILARY VIEWS SHEET 15 OF 27	
SCALE 1:15	DWG No. BSD-7331
ORIGINAL SIZE A3	REVISION C



## 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, AUSTRROADS.
  - AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
  - AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
  - AS4680:2006, HOT DIP GALVANISING.


## 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  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.

## MATERIAL

- MATERIAL: 316 STAINLESS STEEL
- COLOUR: NATURAL
- FINISH: HIGHLY POLISHED (BUTTON SURFACE ONLY).

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE			
NAME:	B.C. PLANT	RPEQ:	8807
SIGNATURE:	ON ORIGINAL	DATE:	10/ 05/ 18

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING				
						DRAWN	AB	DATE	JUN '12						
C	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	CHECKED	VM	DATE	APR '13		DRINKING FOUNTAIN BOTTLE REFILL ACTUATOR SHEET 16 OF 27		SCALE	1:2	
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	DESIGN APPROVED	DRAWING FILENAME	BSD-7331 (C) Drinking fountain - Bottle refill actuator - Sheet 16 of 27						DWG No.	BSD-7331	
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	VICKI MARTIN SIGNATURE ON ORIGINAL	ASSOCIATED PLANS	SUPERSEDES UMS-569				ORIGINAL SIZE	A3	REVISION	C	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN										

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.

NOTES

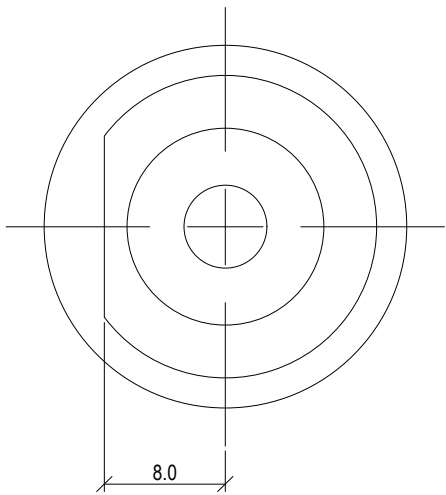
- 1. WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- 2. PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
- 3. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 4. DRAWING TO AS1100 DRAWING STANDARDS.
- 5. 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- 6. ALL TOLERANCES ± 0.5mm UNLESS OTHERWISE SPECIFIED.

MATERIAL

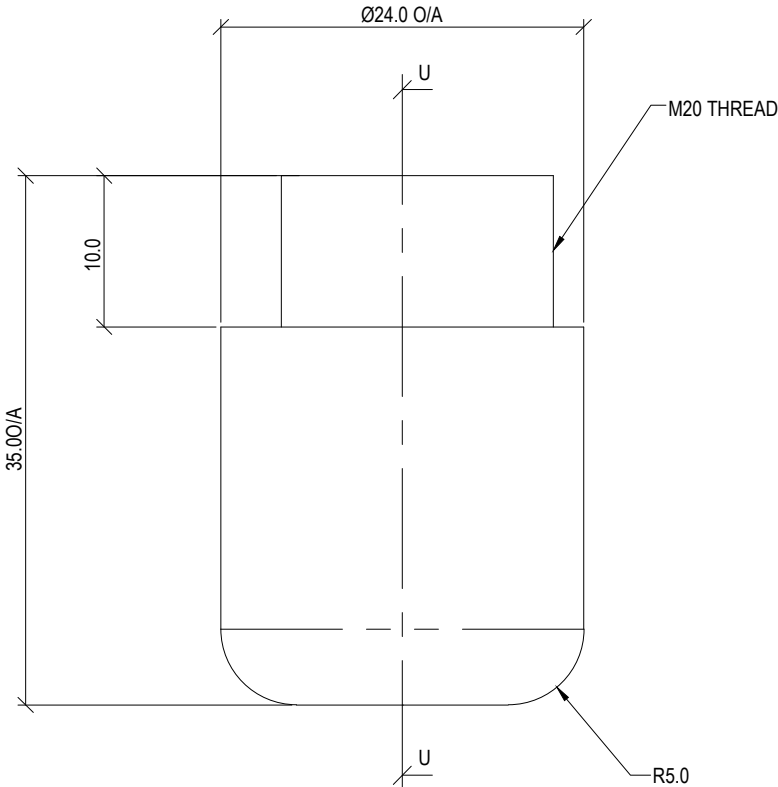
- 1. MATERIAL: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: 600 GRIT POLISHED

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

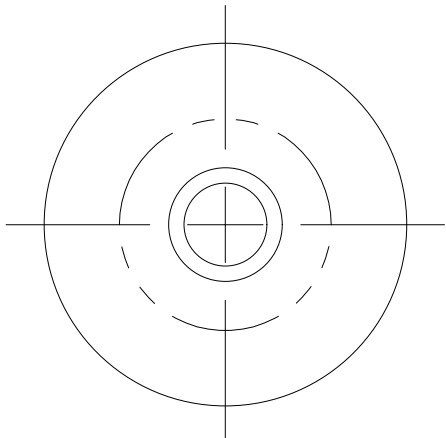
NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18



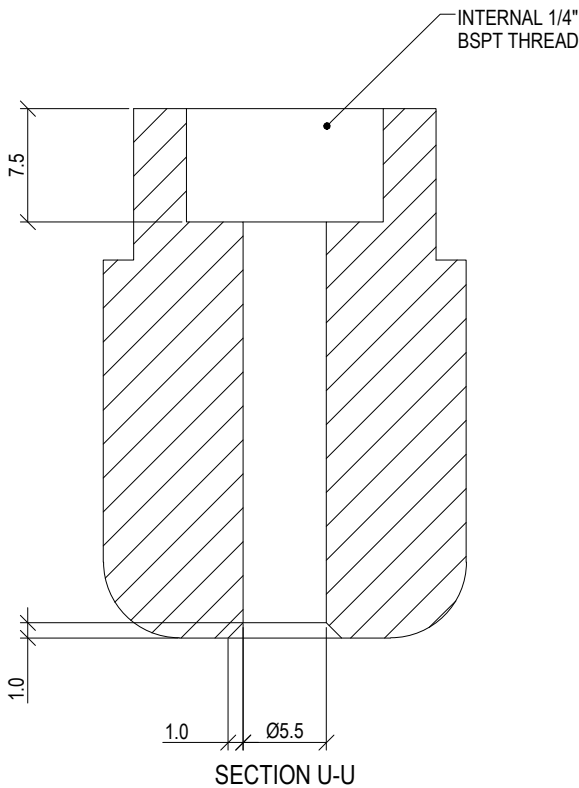
TOP VIEW



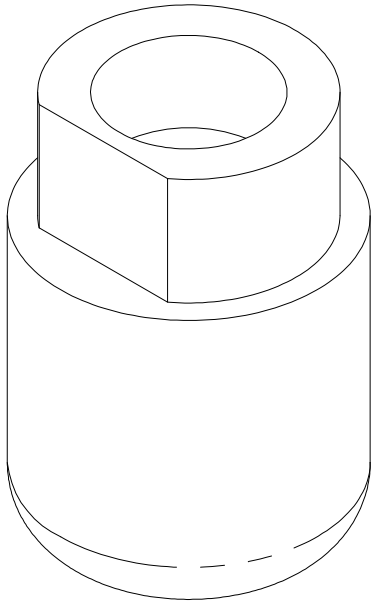
FRONT VIEW




BOTTOM VIEW

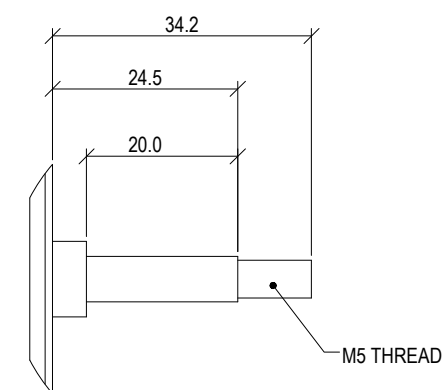
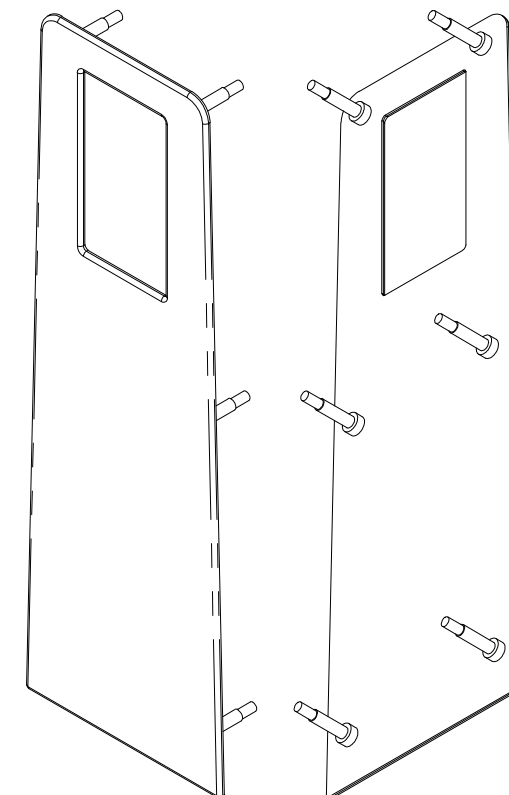



SECTION U-U



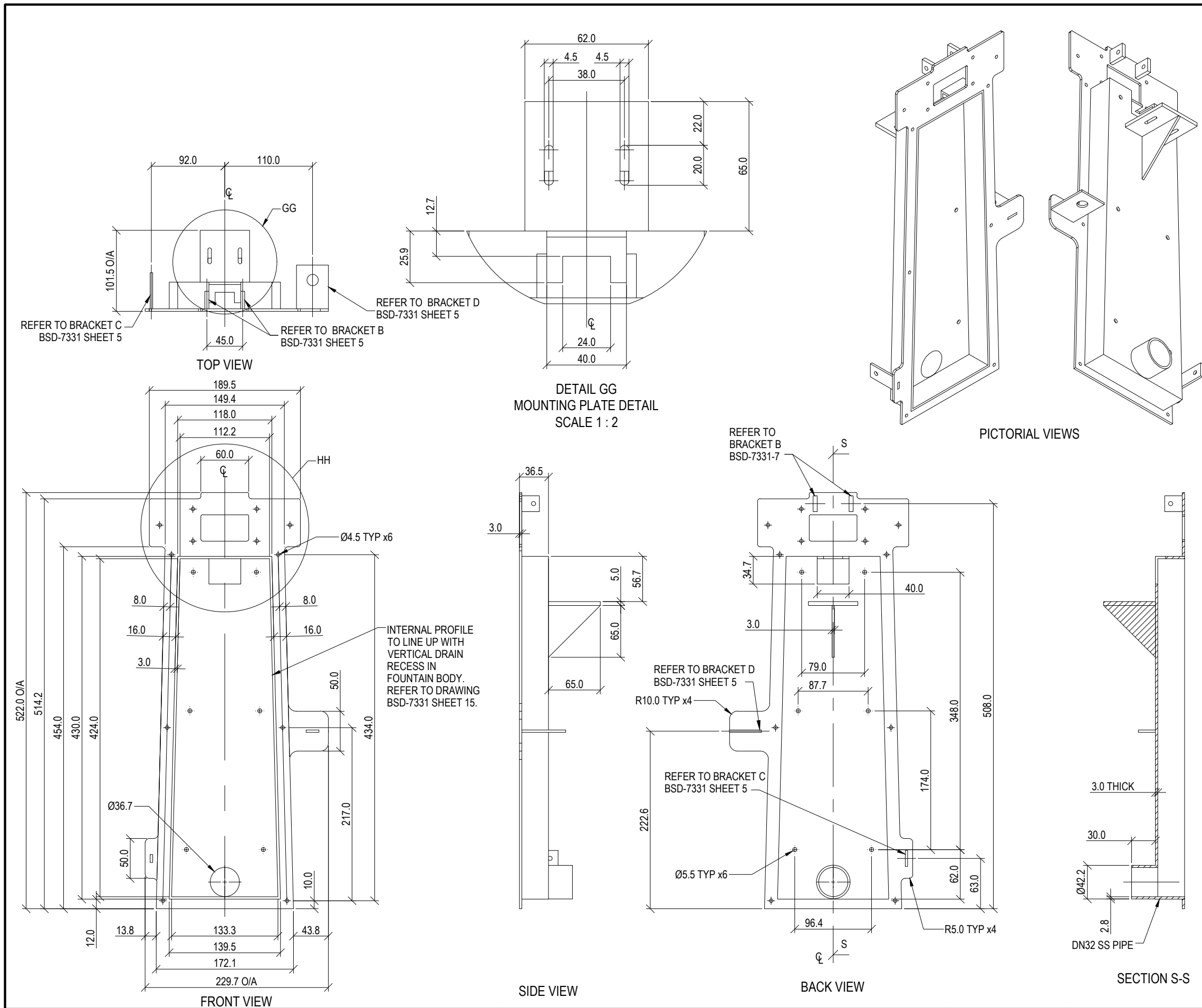
PICTORIAL VIEW

					<b>DRAWING AUTHORISED FOR PUBLICATION</b> INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	JUN '12		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>		
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE 2:1		
					<b>DESIGN APPROVED</b>	CHECKED	VM	DATE	APR '13		DWG No. BSD-7331		
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7331 (C) Drinking fountain - Bottle refill outlet - Sheet 17 of 27.dwg				ORIGINAL SIZE A3		
					PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569-1				REVISION C		
<b>ISSUE</b>	<b>AMENDMENT</b>	<b>DRAWN DATE</b>	<b>CHK'D DATE</b>	<b>APPR'D DATE</b>							<b>DRINKING FOUNTAIN BOTTLE REFILL OUTLET SHEET 17 OF 27</b>		
C	Dog Bowl Addition	MAY '18	JUN '18	NOV '18									
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16									
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14									



					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014</div> <div>--- 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	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
C	Dog Bowl Addition	MAY '18	JUN '18	NOV '18		DRAWN	AB	DATE	JUN '12		SCALE 1:2		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13		DWG No. BSD-7331		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-7331 (C) Drinking fountain - Vertical drain plate - Sheet 18 of 27				ORIGINAL SIZE A3		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS-569				REVISION C		
DRINKING FOUNTAIN VERTICAL DRAIN PLATE SHEET 18 OF 27													





## 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, AUSTRALASIA.
- AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
- AS4680:2006, HOT DIP GALVANISING.

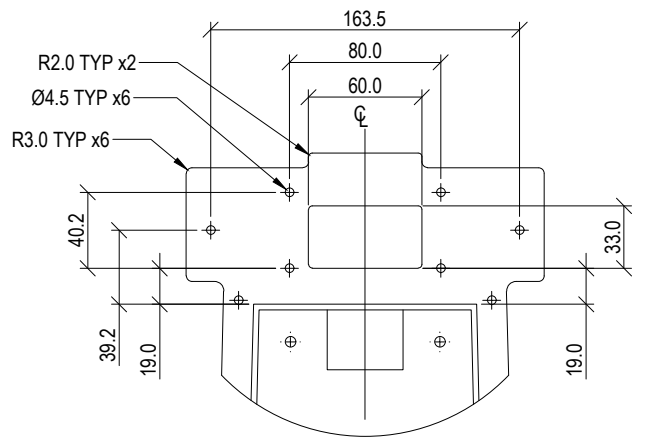
## NOTES

- 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

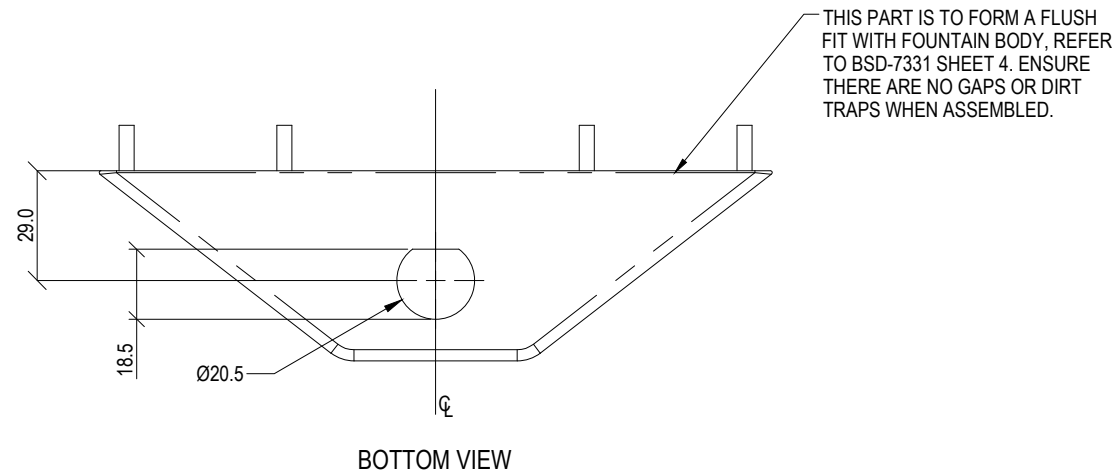
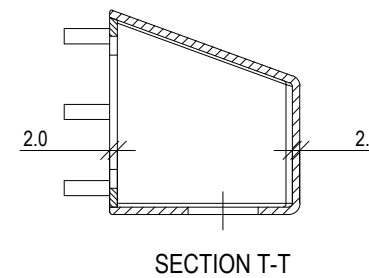
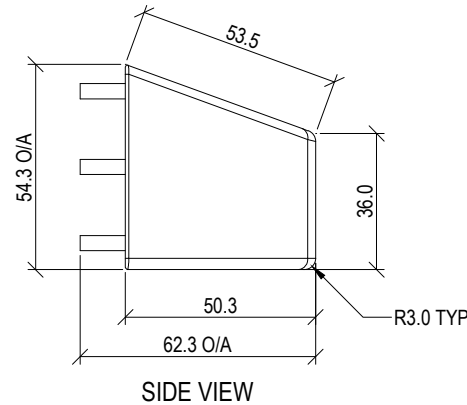
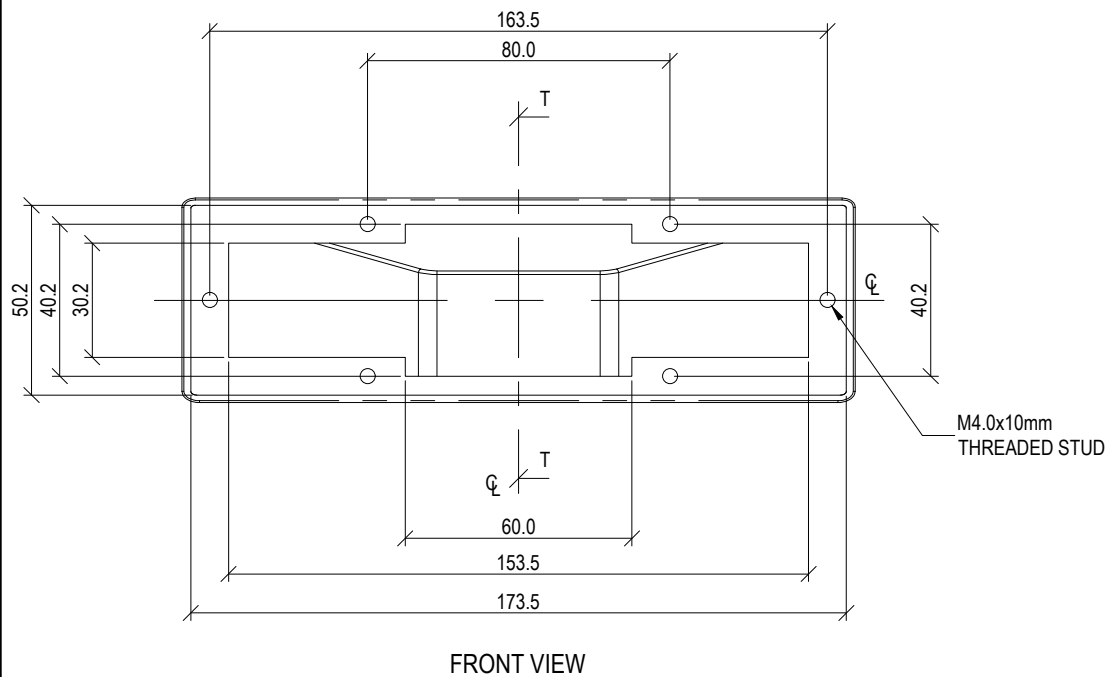
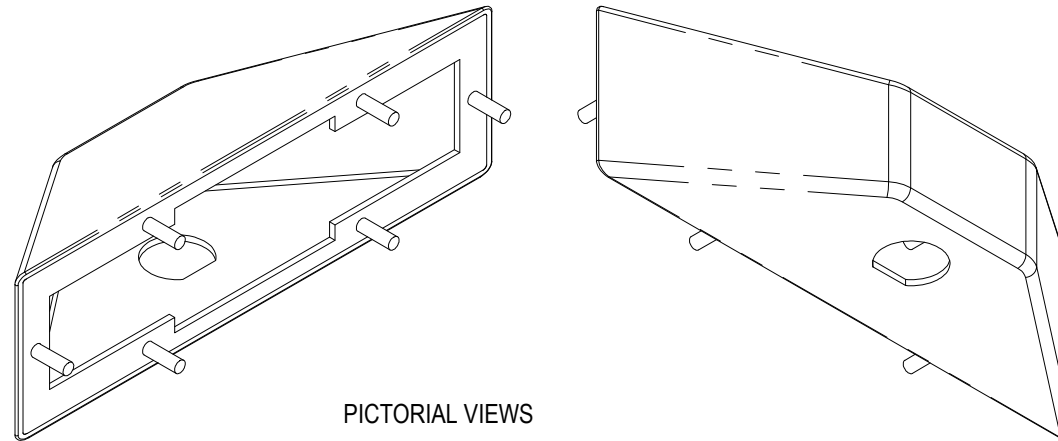
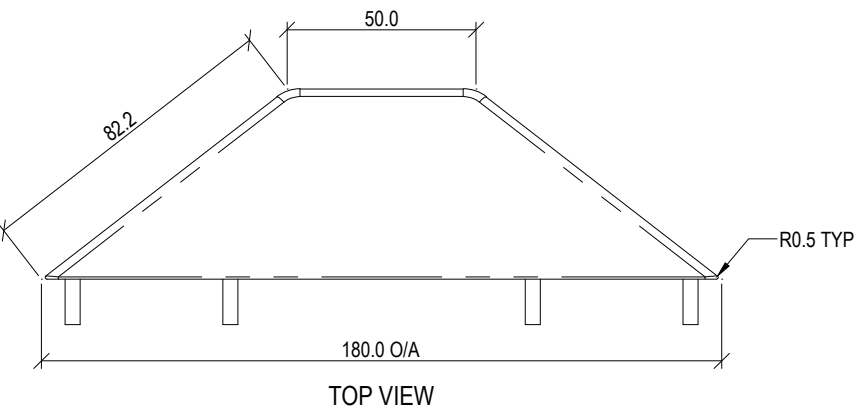
- MATERIAL: 316 STAINLESS STEEL
- COLOUR: NATURAL
- FINISH: DEBURRED

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE			
NAME:	B.C. PLANT	RPEQ:	8807
SIGNATURE:	ON ORIGINAL	DATE:	10/ 05/ 18



DETAIL HH VALVE MOUNT HOLE DETAIL SCALE 1 : 4

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK AUTHORISED 15/04/2014		DESIGN	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING		
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT		DRAWN	AB	DATE	JUN '12		DRINKING FOUNTAIN VERTICAL BASIN SHEET 19 OF 27		
					DESIGN APPROVED		CHECKED	VM	DATE	APR '13				
					VICKI MARTIN SIGNATURE ON ORIGINAL		DRAWING FILENAME	BSD-7331 (C) Drinking fountain - Vertical basin - Sheet 19 of 27						
					PRINCIPAL PLANNING OFFICER URBAN DESIGN		ASSOCIATED PLANS	SUPERSEDES UMS-569						
C	Dog Bowl Addition	MAY '18	JUN '18	NOV '18								SCALE 1:5		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16								DWG No. BSD-7331		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14								ORIGINAL SIZE A3		
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE								REVISION C		



## 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.

## 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  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.

## MATERIAL

1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: 600 GRIT POLISH

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

					<b>DRAWING AUTHORISED FOR PUBLICATION</b> INGA CONDRIE AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>			
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE 1:2			
					<b>DESIGN APPROVED</b>	CHECKED	VM	DATE	APR '13		DRINKING FOUNTAIN VALVE MOUNT			
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7331 (C) Drinking fountain - Valve mount - Sheet 20 of 27				BSD-7331			
					PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569				ORIGINAL SIZE	A3	REVISION C	
C	Dog Bowl Addition	MAY '18	JUN '18	NOV '18							SHEET 20 OF 27			
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										




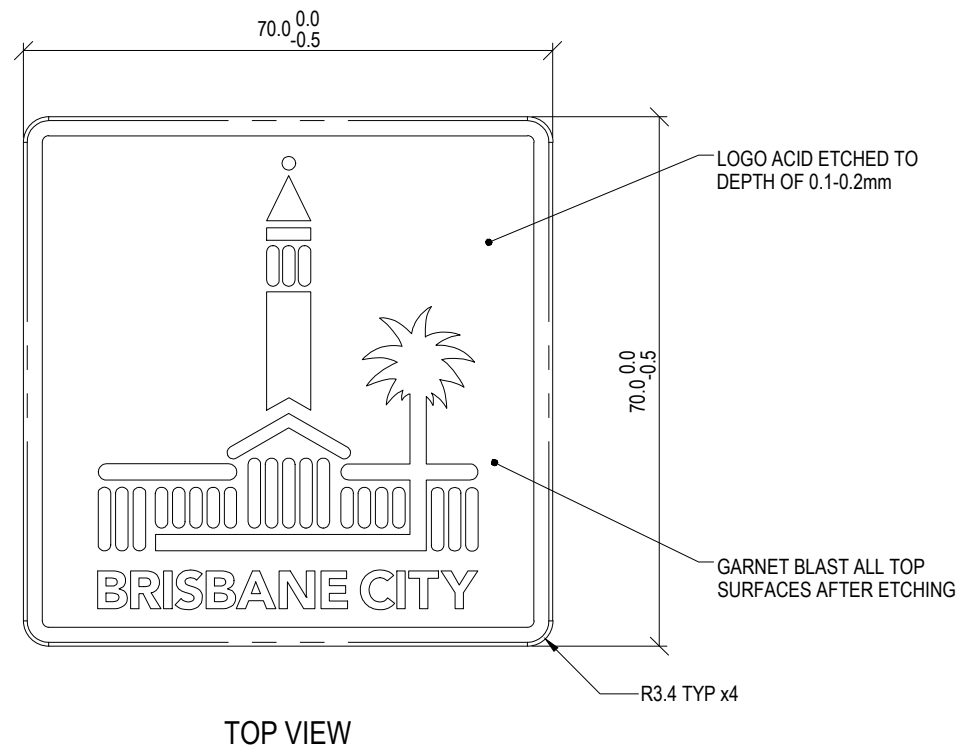
1. AS1428.4.1:2009, TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
2. AS1627.4 METAL FINISHING -PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
3. AS2312:2002/AMDT 1:2004, GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION, 1994.
4. GUIDE TO ENGINEERING PRACTICE, 'PEDESTRIANS', PART 13, AUSTRADS.
5. AUSTRALIAN ROAD RULES , 1999, [WWW.NRTC.GOV.AU](http://WWW.NRTC.GOV.AU)
6. AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
7. AS4680:2006, HOT DIP GALVANISING.

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  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.

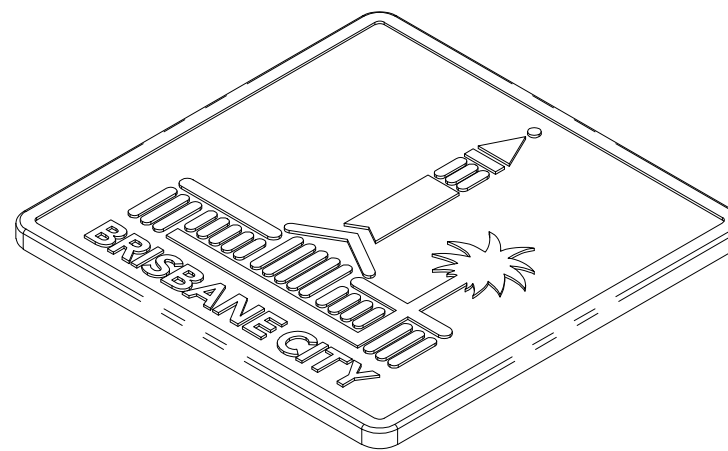
1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: DEBURRED

SIGNATURE: ON ORIGINAL \_\_\_\_\_ DATE: 10/ 05/ 18

					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014</div> <div>--- 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	JUN '12		<div>BRISBANE CITY COUNCIL STANDARD DRAWING</div> <div>DRINKING FOUNTAIN VALVE MOUNT SHEET 21 OF 27</div> <div><div>SCALE 1:2</div><div>DWG No. BSD-7331</div><div><div>ORIGINAL SIZE A3</div><div>REVISION C</div></div></div>		
C	Dog Bowl Addition	MAY '18	JUN '18	NOV '18		DRAWN	AB	DATE	JUN '12				
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16		CHECKED	VM	DATE	APR '13				
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		DRAWING FILENAME	BSD-7331 (C) Drinking fountain - Valve mount - Sheet 21 of 27						
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS	SUPERSEDES UMS-569						



TOP VIEW



PICTORIAL VIEW



FRONT VIEW

## 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.

## 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: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: GARNET BLASTED

### STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

					<b>DRAWING AUTHORISED FOR PUBLICATION</b> INGA CONDRIK AUTHORISED 15/04/2014	DESIGN	FORMZOO DESIGN	DATE	JUN '12		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>		
D	Dog Bowl Addition	MAY '18	JUN '18	NOV '18	ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE 1:1		
C	Logo Badge Etch Depth Amended	MAY '17	MAY '17	MAY '17		CHECKED	VM	DATE	APR '13		DRWG No. BSD-7331		
B	Drawing Title Amended	FEB '16	JUL '16	JUL '16	<b>DESIGN APPROVED</b> VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7331 (D) Drinking fountain - Logo badge - Sheet 22 of 27				DRINKING FOUNTAIN LOGO BADGE SHEET 22 OF 27		
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14		ASSOCIATED PLANS	SUPERSEDES UMS-569				ORIGINAL SIZE A3	REVISION D	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	PRINCIPAL PLANNING OFFICER URBAN DESIGN								



ITEM NO.	DESCRIPTION	QTY.	WITH DOG BOWL	STANDARD
1	Drinking Fountain Body	1	1	
2	Drinking Fountain Access Panel	1	1	
3	Drinking Fountain Top Plate	1	1	
4	Drinking Fountain Logo Badge	2	2	
5	Drinking Fountain Actuator	1	1	
6	Drinking Fountain Actuator Arm	1	1	
7	Drinking Fountain Mouth Piece	1	1	
8	Drinking Fountain Actuator Arm Bush	1	1	
9	Drinking Fountain Actuator Bush	2	2	
10	Drinking Fountain Vertical Drain Plate	1	1	
11	Drinking Fountain Bottle Refill Actuator	1	1	
12	Drinking Fountain Bottle Refill Body	1	1	
13	Drinking Fountain Vertical Basin	1	1	
14	Drinking Fountain Bottle Refill Outlet	1	1	
15	Drinking Fountain Valve Mount	1	1	
16	Return Spring to Suit	1	1	
17	3M Bumpon SJ5003	2	2	
18	M4x16 304 Stainless Steel CSK Phillips Head Screw	14	14	
19	M4 304 Stainless Steel Internal Tooth Washer	2	2	
20	M4 304 Stainless Steel Nyloc Nut	14	14	
21	M5x20 304 Stanless Steel Pan Phillips Head Screw	6	4	
22	M5 304 Stainless Steel Washer	16	12	
23	M5 304 Stainless Steel Spring Washer	5	5	
24	M5 304 Stainless Steel Hex Nut	4	4	
25	M5 304 Stainless Steel Nyloc Nut	11	9	
26	M8 304 Stainless Steel Washer	6	4	
27	M10x30 304 Stainless Steel Hex Bolt	2	2	
28	M10 304 Stainless Steel Washer	6	6	
29	M10 304 Stainless Steel Hex Nut	6	6	
30	M20 304 Stainless Steel Half Nut	3	2	
31	Dog Bowl Actuator	1	0	
32	Dog Bowl	2	0	
33	Dog Bowl Fill Nozzle	1	0	
34	M8 x 16 304 Stainless Steel Hex Bolt	2	0	

DRINKING FOUNTAIN  
ASSEMBLY BOM  
REFER TO BSD-7331 SHEET 2  
FOR EXPLODED VIEW

ITEM NO.	DESCRIPTION	QTY.	WITH DOG BOWL	STANDARD
1	Drinking Fountain	1	1	
2	Drinking Fountain Access Panel	1	1	
3	Drinking Fountain Valve Mount	1	1	
4	Drinking Fountain Mouth Piece	1	1	
5	Drinking Fountain Bottle Refill Outlet	1	1	
6	40mm Female Iron Connector	1	1	
7	40mm Male Iron Connector	1	1	
8	40mm PVC Pipe	2	2	
9	Water Flow Valve 1KG Spring Force	3	2	
10	Water Flow Regulator	1	1	
11	Legris 45° Connector	2	2	
12	Legris 90° Connector	2	1	
13	John Guest Polyethylene Tubing (a)	1	1	
14	John Guest Polyethylene Tubing (b)	1	1	
15	John Guest Polyethylene Tubing (c)	1	1	
16	John Guest Polyethylene Tubing (d)	1	1	
17	John Guest Polyethylene Tubing (e)	1	1	
18	M4 304 Stainless Steel Internal Tooth Washer	2	2	
19	M4 304 Stainless Steel Nyloc Nut	2	2	
20	M5x16mm 304 Stainless Steel CSK Phillips Head Screw	6	4	
21	M20 304 Stainless Steel Half Nut	3	2	
22	40mm PVC Tee Piece	1	1	
47	Dog Bowl Valve Mount	1	0	
51	Dog Bowl Fill Nozzle	1	0	
52	John Guest Polyethylene Tubing (f)	1	0	
53	John Guest Polyethylene Tubing (g)	1	0	

DRINKING FOUNTAIN  
PLUMBING BOM  
REFER TO BSD-7331 SHEET 3  
FOR EXPLODED 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, AUSTROADS.
- AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
- AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
- AS4680:2006, HOT DIP GALVANISING.

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 ± 1.5mm UNLESS OTHERWISE SPECIFIED.


MATERIAL

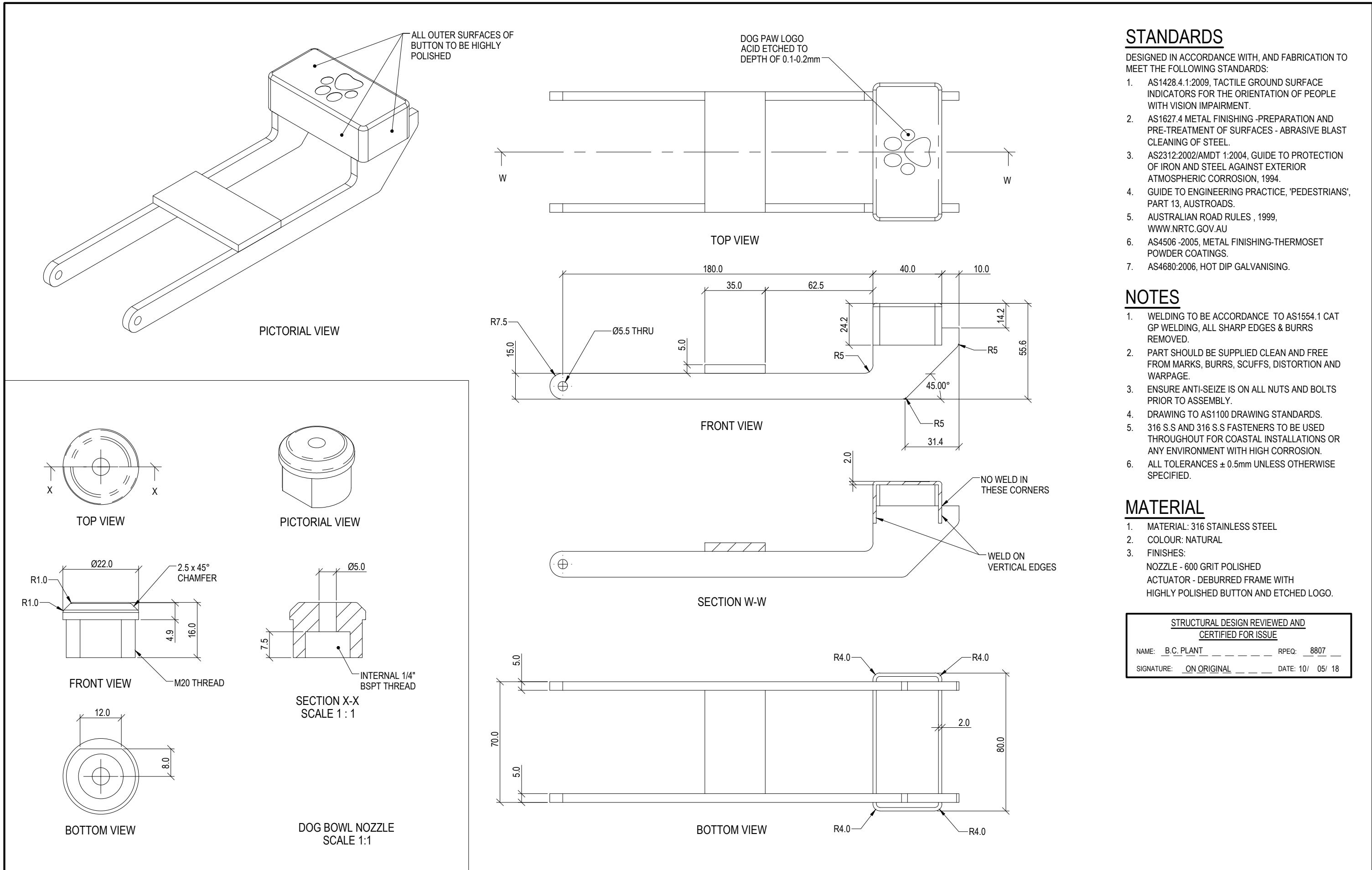
- MATERIAL: SEE COMPONENT DRAWING
- COLOUR: SEE COMPONENT DRAWING
- FINISH: SEE COMPONENT DRAWING

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807

SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC AUTHORISED 15/04/2014	DESIGN	FORMZ00 DESIGN	DATE	JUN '12		BRISBANE CITY COUNCIL STANDARD DRAWING			
					ASSET ENGINEERING MANAGER STRATEGIC ASSET MANAGEMENT	DRAWN	AB	DATE	JUN '12		SCALE	NOT TO SCALE		
					DESIGN APPROVED	CHECKED	VM	DATE	APR '13		Dwg No.	BSD-7331		
					VICKI MARTIN SIGNATURE ON ORIGINAL	DRAWING FILENAME	BSD-7331 (C) Drinking fountain - Bill of materials - Sheet 23 of 27					ORIGINAL SIZE	REVISION	
					PRINCIPAL PLANNING OFFICER URBAN DESIGN	ASSOCIATED PLANS	SUPERSEDES UMS-569					A3	C	
C	Dog Bowl Addition	MAY '18	JUN '18	NOV '18							DRINKING FOUNTAIN BILL OF MATERIALS SHEET 23 OF 27			
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										



## 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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5. AUSTRALIAN ROAD RULES , 1999, WWW.NRTC.GOV.AU
6. AS4506 -2005, METAL FINISHING-THERMOSET POWDER COATINGS.
7. AS4680:2006, HOT DIP GALVANISING.

## 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  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.

## MATERIAL

1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISHES:  
NOZZLE - 600 GRIT POLISHED  
ACTUATOR - DEBURRED FRAME WITH HIGHLY POLISHED BUTTON AND ETCHED LOGO.

STRUCTURAL DESIGN REVIEWED AND  
CERTIFIED FOR ISSUE

NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18

					DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIC	DESIGN	FORMZ00 DESIGN	DATE	MAY '18		BRISBANE CITY COUNCIL STANDARD DRAWING		
					PRINCIPAL ENGINEER STRATEGIC ASSET MANAGEMENT PLANNING	DRAWN	SC	DATE	MAY '18		DRINKING FOUNTAIN DOG BOWL ACTUATOR & NOZZLE SHEET 24 OF 27	SCALE 1:2	
					DESIGN APPROVED VICKI MARTIN	CHECKED	Urban Design	DATE	MAY '18			Dwg No. BSD-7331	
A	Original Issue - Dog Bowl Additional	MAY '18	JUN '18	NOV '18	PRINCIPAL PLANNING OFFICER URBAN DESIGN	DRAWING FILENAME	BSD-7331 (A) Drinking fountain - Dog bowl actuator and nozzle - Sheet 24 of 27						ORIGINAL SIZE A3
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE		ASSOCIATED PLANS							

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.
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- 7. AS4680:2006, HOT DIP GALVANISING.

NOTES

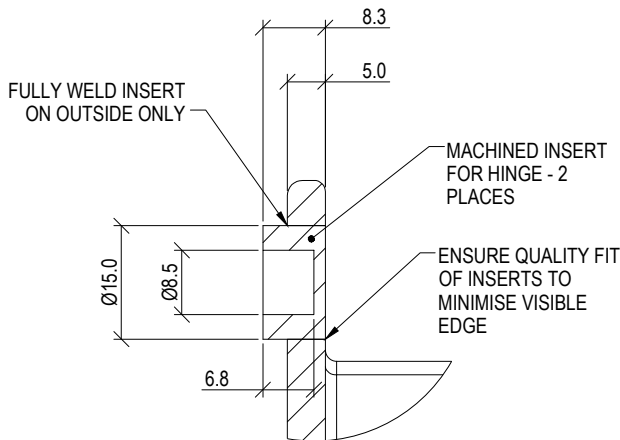
- 1. WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- 2. PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
- 3. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 4. DRAWING TO AS1100 DRAWING STANDARDS.
- 5. 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- 6. ALL TOLERANCES  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.

MATERIAL

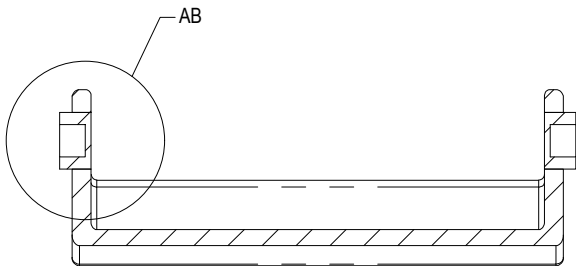
- 1. MATERIAL: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: GARNET BLASTED ALL OVER.

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

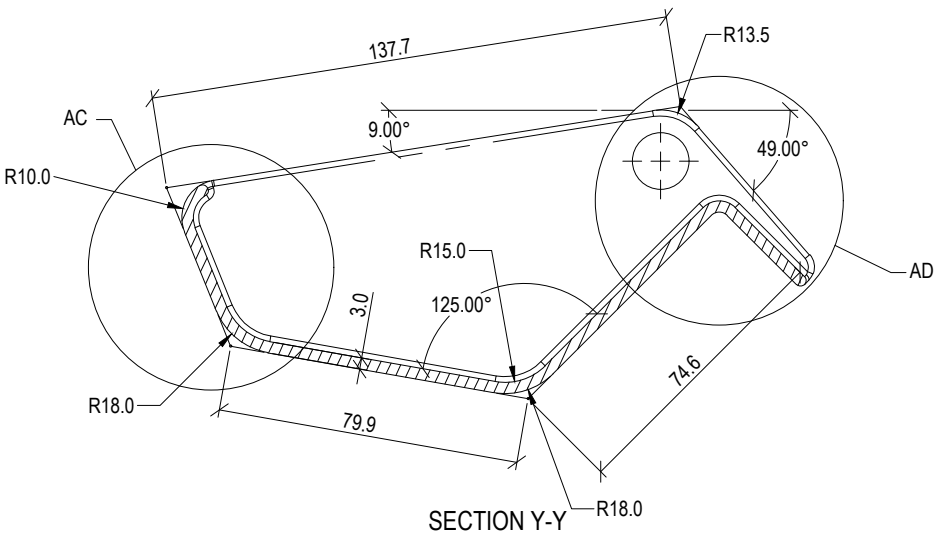
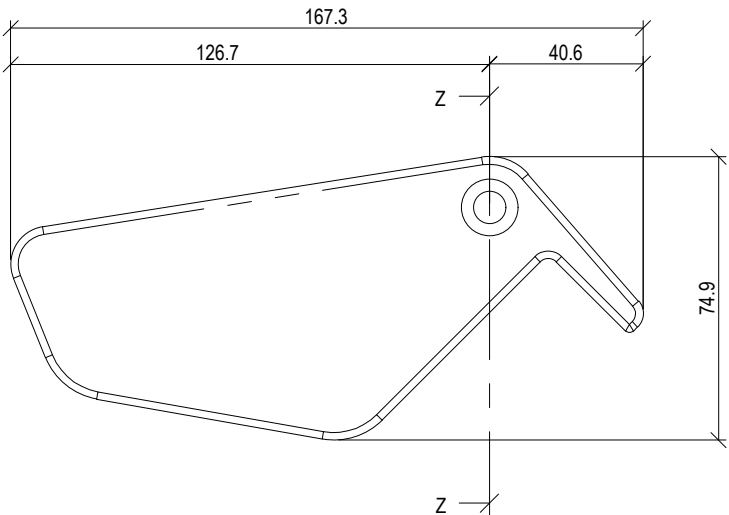
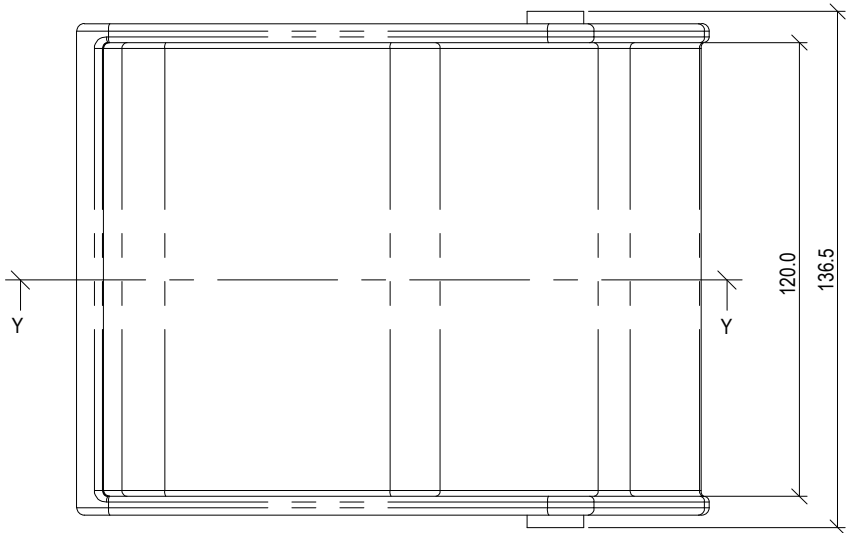
NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18



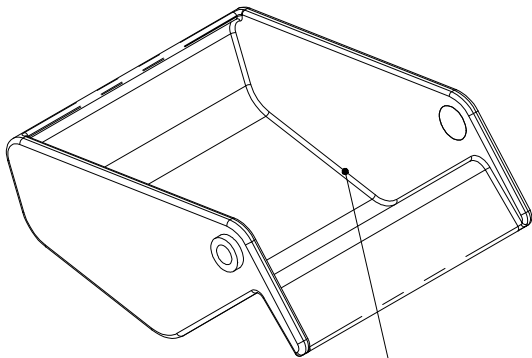
DETAIL AB  
SCALE 1 : 1



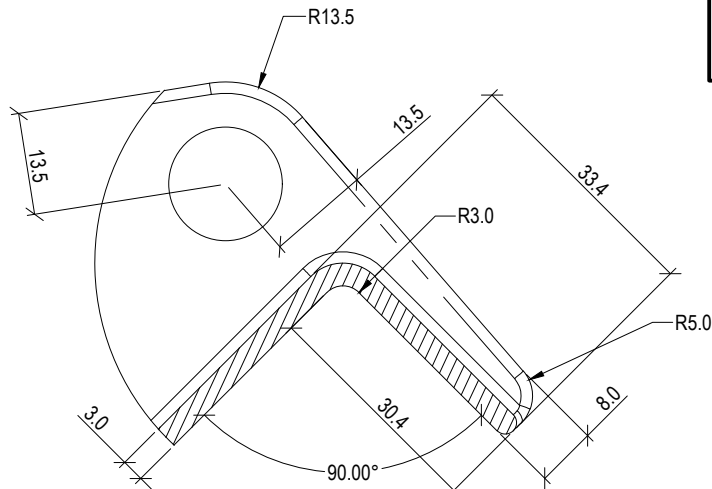
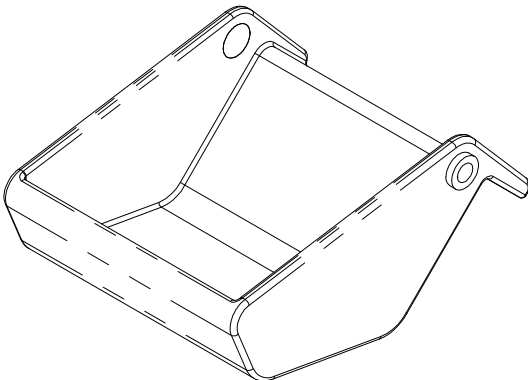
SECTION Z-Z































































































SECTION Y-Y

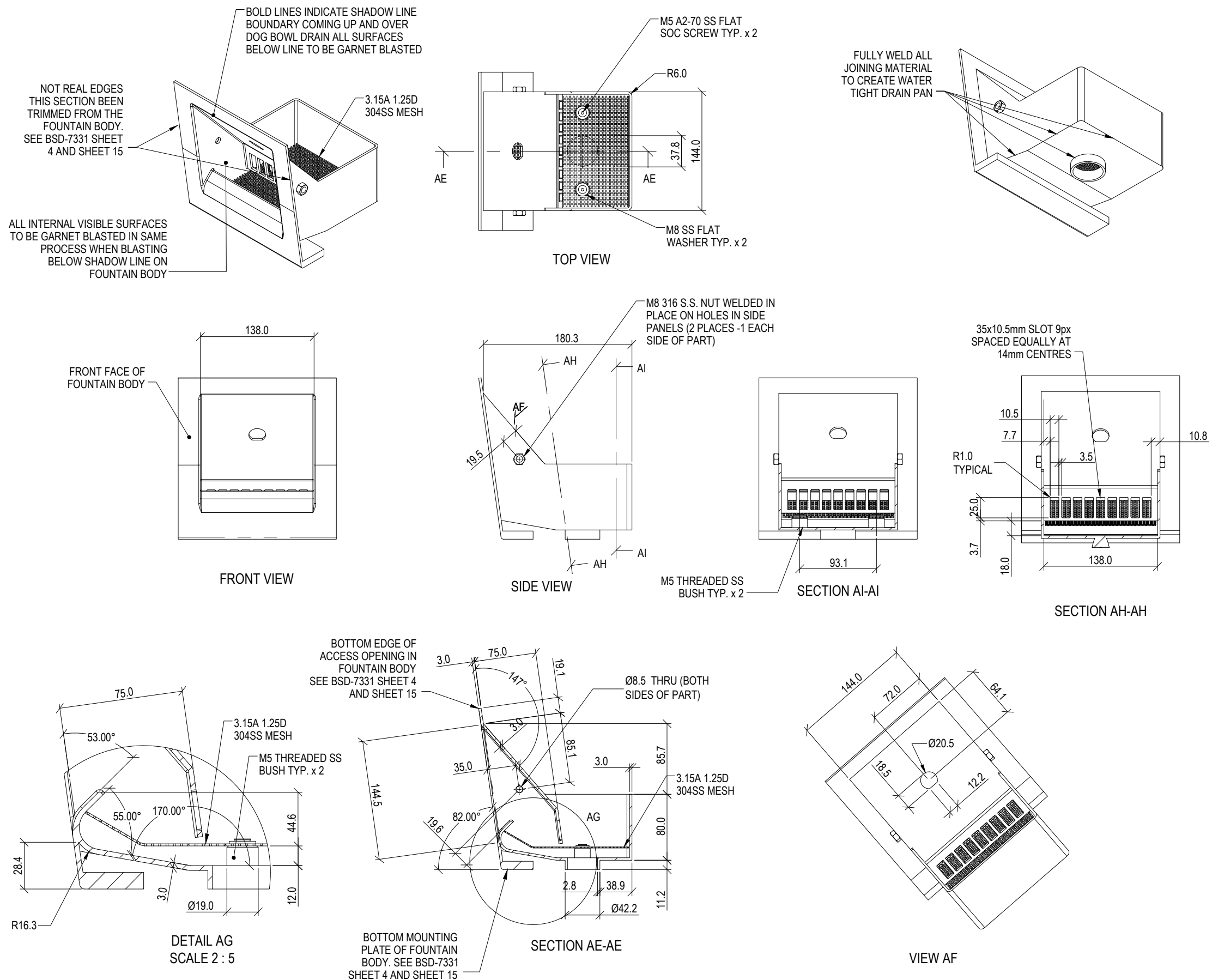


FULLY WELD ALL JOINING MATERIAL AND CLEAN BACK TO SMOOTH FINISH - ROUND ALL EDGES - R1.5mm



DETAIL AD  
SCALE 1 : 1

						DRAWING AUTHORISED FOR PUBLICATION INGA CONDRC	DESIGN	FORMZ00 DESIGN	DATE	MAY '18		<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>		
						PRINCIPAL ENGINEER STRATEGIC ASSET MANAGEMENT PLANNING	DRAWN	SC	DATE	MAY '18				
						DESIGN APPROVED VICKI MARTIN	CHECKED	Urban Design	DATE	MAY '18				
						PRINCIPAL PLANNING OFFICER URBAN DESIGN	DRAWING FILENAME	BSD-7331 (A) Drinking fountain - Dog bowl - Sheet 25 of 27						
A	Original Issue - Dog Bowl Additional		MAY '18	JUN '18	NOV '18								<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>	
ISSUE	AMENDMENT		DRAWN DATE	CHK'D DATE	APPR'D DATE									
													<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>	
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													<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>	



## 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.


## 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  $\pm 0.5\text{mm}$  UNLESS OTHERWISE SPECIFIED.

## MATERIAL

1. MATERIAL: 316 STAINLESS STEEL
2. COLOUR: NATURAL
3. FINISH: GARNET BLASTED AS PART OF FOUNTAIN BODY

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE	
NAME: <u>B.C. PLANT</u>	RPEQ: <u>8807</u>
SIGNATURE: <u>ON ORIGINAL</u>	DATE: <u>10/ 05/ 18</u>

					<div>DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIK</div> <div>----- PRINCIPAL ENGINEER STRATEGIC ASSET MANAGEMENT PLANNING DESIGN APPROVED VICKI MARTIN ----- PRINCIPAL PLANNING OFFICER URBAN DESIGN</div>	DESIGN	FORMZOO DESIGN	DATE	MAY '18		<div>BRISBANE CITY COUNCIL STANDARD DRAWING</div> <div>DRINKING FOUNTAIN DOG BOWL RECESS/DRAIN SHEET 26 OF 27</div>	SCALE 1:2	
						DRAWN	SC	DATE	MAY '18			DWG No. BSD-7331	
						CHECKED	Urban Design	DATE	MAY '18				
A	Original Issue - Dog Bowl Addition	MAY '18	JUN '18	NOV '18		DRAWING FILENAME	BSD-7331 (A) Drinking fountain - Dog bowl recess_drain - Sheet 26 of 27					ORIGINAL SIZE A3	REVISION A
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE	ASSOCIATED PLANS								



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.

NOTES

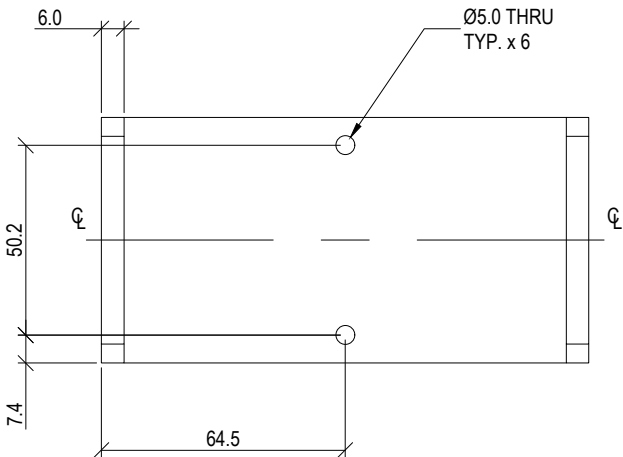
- 1. WELDING TO BE ACCORDANCE TO AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- 2. PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.
- 3. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 4. DRAWING TO AS1100 DRAWING STANDARDS.
- 5. 316 S.S AND 316 S.S FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- 6. ALL TOLERANCES ± 0.5mm UNLESS OTHERWISE SPECIFIED.

MATERIAL

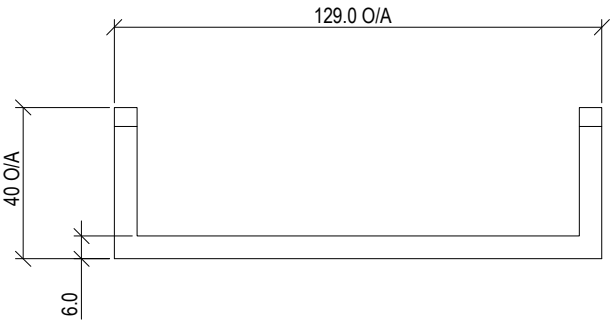
- 1. MATERIAL: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: DEBURRED

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE

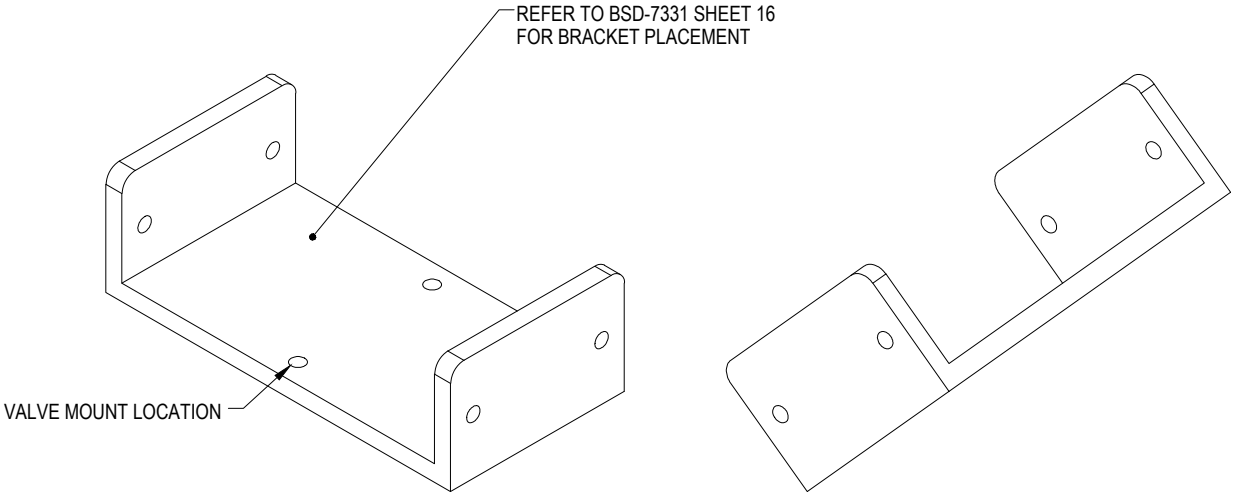
NAME: B.C. PLANT RPEQ: 8807  
SIGNATURE: ON ORIGINAL DATE: 10/ 05/ 18



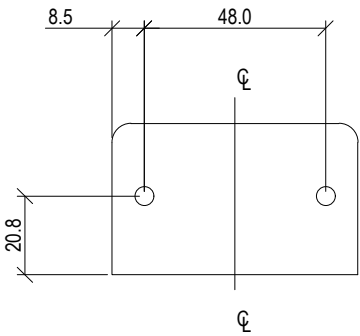
TOP VIEW




FRONT VIEW



PICTORIAL VIEWS



SIDE VIEW

						DRAWING AUTHORISED FOR PUBLICATION INGA CONDRIĆ	DESIGN	FORMZ00 DESIGN	DATE	MAY '18		BRISBANE CITY COUNCIL STANDARD DRAWING		
						PRINCIPAL ENGINEER STRATEGIC ASSET MANAGEMENT PLANNING	DRAWN	SC	DATE	MAY '18		DRINKING FOUNTAIN DOG BOWL VALVEMOUNT SHEET 27 OF 27	SCALE 1:2	
						DESIGN APPROVED VICKI MARTIN	CHECKED	Urban Design	DATE	MAY '18			Dwg No. BSD-7331	
A	Original Issue - Dog Bowl Addition	MAY '18	JUN '18	NOV '18		PRINCIPAL PLANNING OFFICER URBAN DESIGN	DRAWING FILENAME	BSD-7331 (A) Drinking fountain - Dog bowl valve mount - Sheet 27 of 27				ORIGINAL SIZE A3	REVISION A	
ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE			ASSOCIATED PLANS							