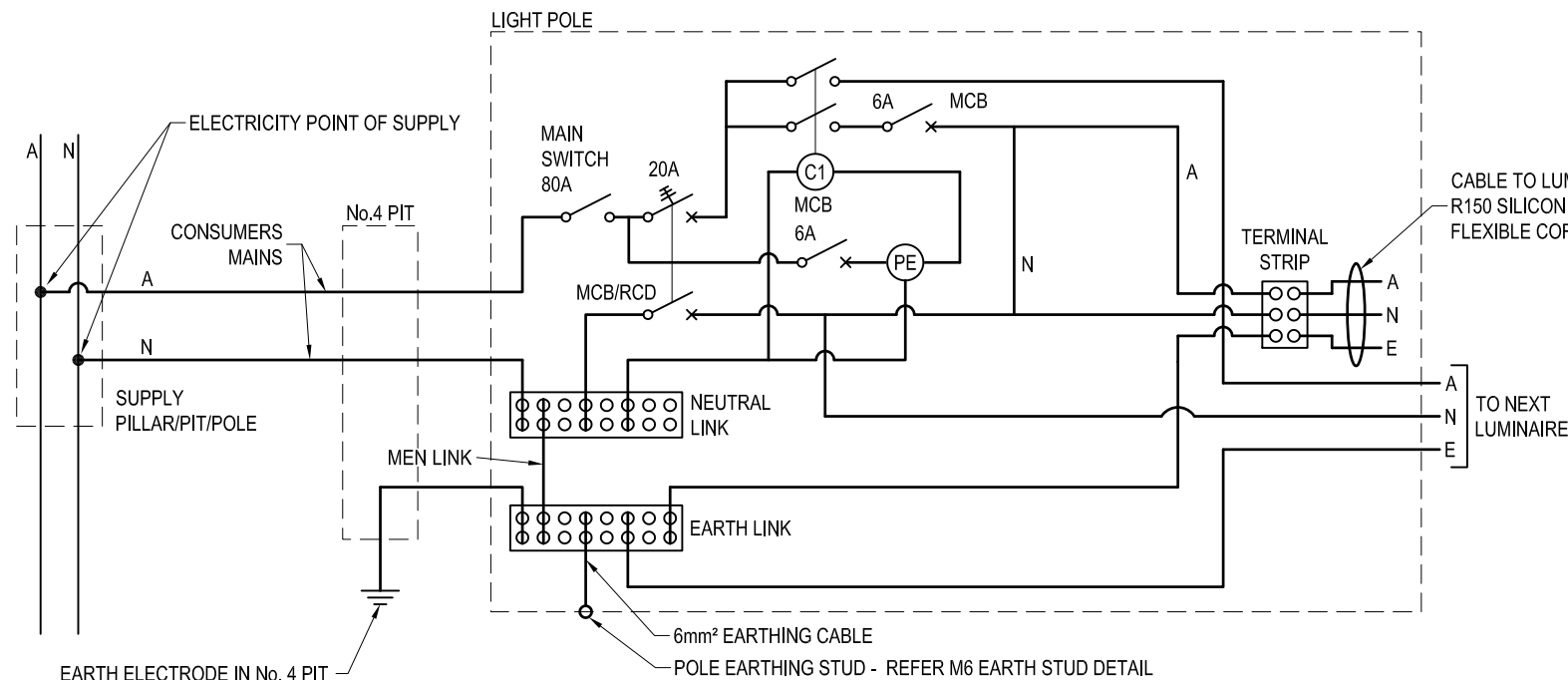


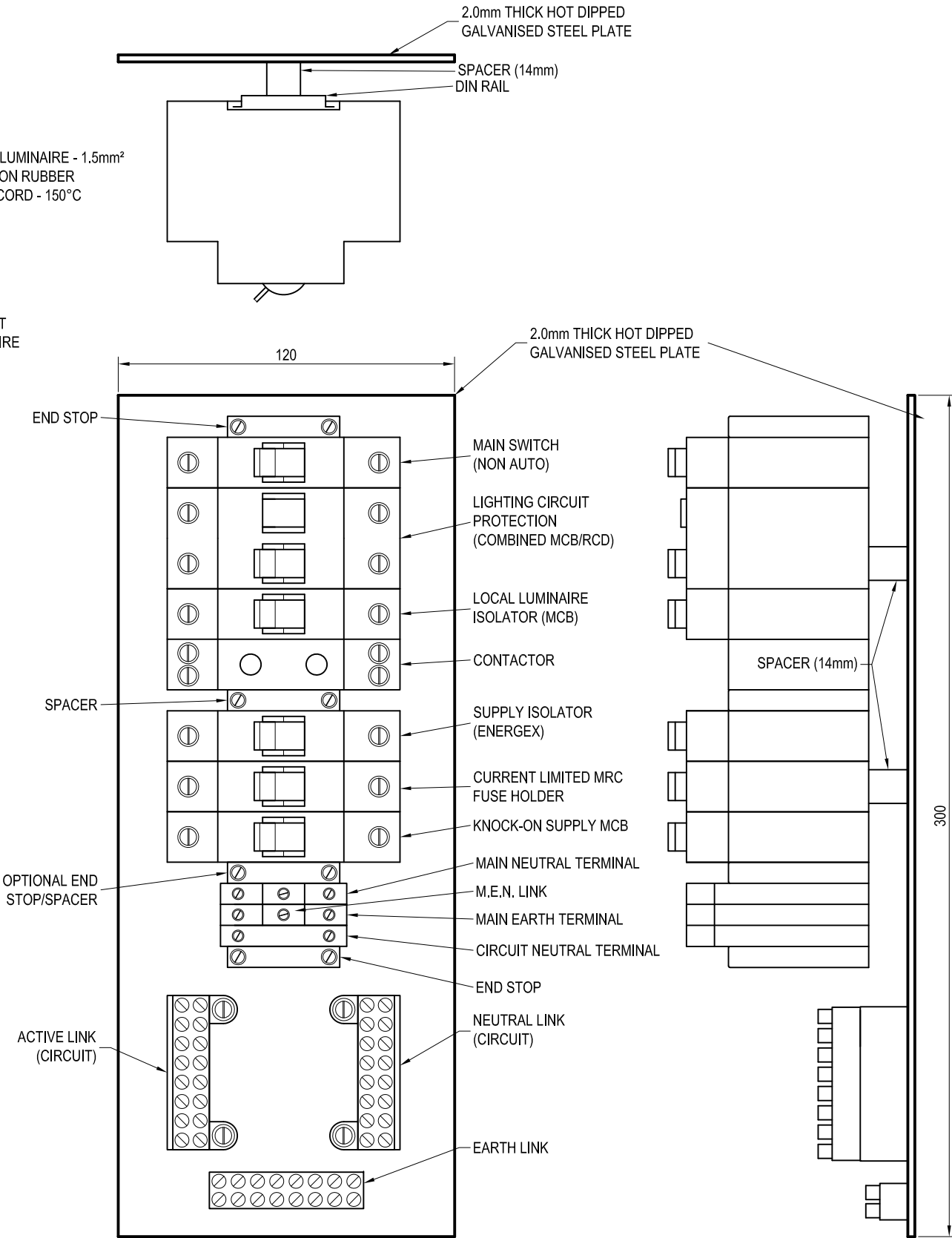


WIRING SCHEMATIC
NOT TO SCALE

NOTES:

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS.3000.
2. PE CELL IS TO BE INSTALLED 50mm ABOVE THE TOP OF THE REMOVABLE ACCESS PANEL, FACING TOWARDS THE PROPERTY BOUNDARY.
3. THE ELECTRICAL CONDUIT INSTALLED PARALLEL TO THE PROPERTY BOUNDARY IS TO BE POSITIONED WITHIN THE 0 - 900mm UNDERGROUND ELECTRICITY ALIGNMENT WITH A MINIMUM CLEARANCE OF 100mm FROM OTHER ELECTRICAL CONDUITS, AND LOCATED ON THE ROADWAY SIDE OF THE 0 - 900mm UNDERGROUND ELECTRICITY ALIGNMENT. REFER TO BRISBANE CITY COUNCIL STANDARD DRAWINGS BSD-1013 TO BSD-1016 FOR FURTHER DETAILS.
4. MAIN SWITCHBOARDS AND CONTROL PANELS CAN BE PURCHASED FROM BRISBANE CITY COUNCIL. CONTACT CITY LIGHTING SECTION ON TELEPHONE No. 07 3027 4491 TO ARRANGE.
5. ENDS OF CONDUITS ARE TO BE SEALED WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN.
6. EXTERNAL BASE OF LIGHT POLE IS TO BE SEALED WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN.
7. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

EQUIPMENT LIST	
ITEM	DESCRIPTION
MAIN SWITCH	63A C/B AMP - NON AUTO - DIN RAIL MOUNTED - 10kA - CLIPSAL OR EQUAL APPROVED
COMBINED MINIATURE CIRCUIT BREAKER AND RESIDUAL CURRENT DEVICE (MCB/RCD)	20 AMP - DIN RAIL MOUNTED - TYPE A - C CURVE RCD - 30mA TRIPPING CURRENT - 10kA - 2 POLE TYPE - CLIPSAL OR EQUAL APPROVED (2 POLE REQUIRED TO ACHIEVE 10kA)
MINIATURE CIRCUIT BREAKER (MCB)	6 AMP - DIN RAIL MOUNTED - 10kA - CLIPSAL OR EQUAL APPROVED
NEUTRAL LINK	INSULATED BASE TYPE - 16mm² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING
EARTH LINK	16mm² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING
CONTACTOR	MINIMUM 20 AMP - AC3 - 2 POLE - 240V - DIN RAIL MOUNTED - SPRECHER & SCHUH OR EQUAL APPROVED
PE CELL	PHOTO MICROSWITCH - 1000 WATT OUTPUT - ATCO FM S220 OR EQUAL APPROVED
TERMINAL STRIP	15 AMP - INSULATED TYPE - 2 SCREW TYPE - CLIPSAL OR EQUAL APPROVED



MAIN SWITCHBOARD & CONTROL PANEL ARRANGEMENTS (WITH KNOCK-ON
SUPPLY)

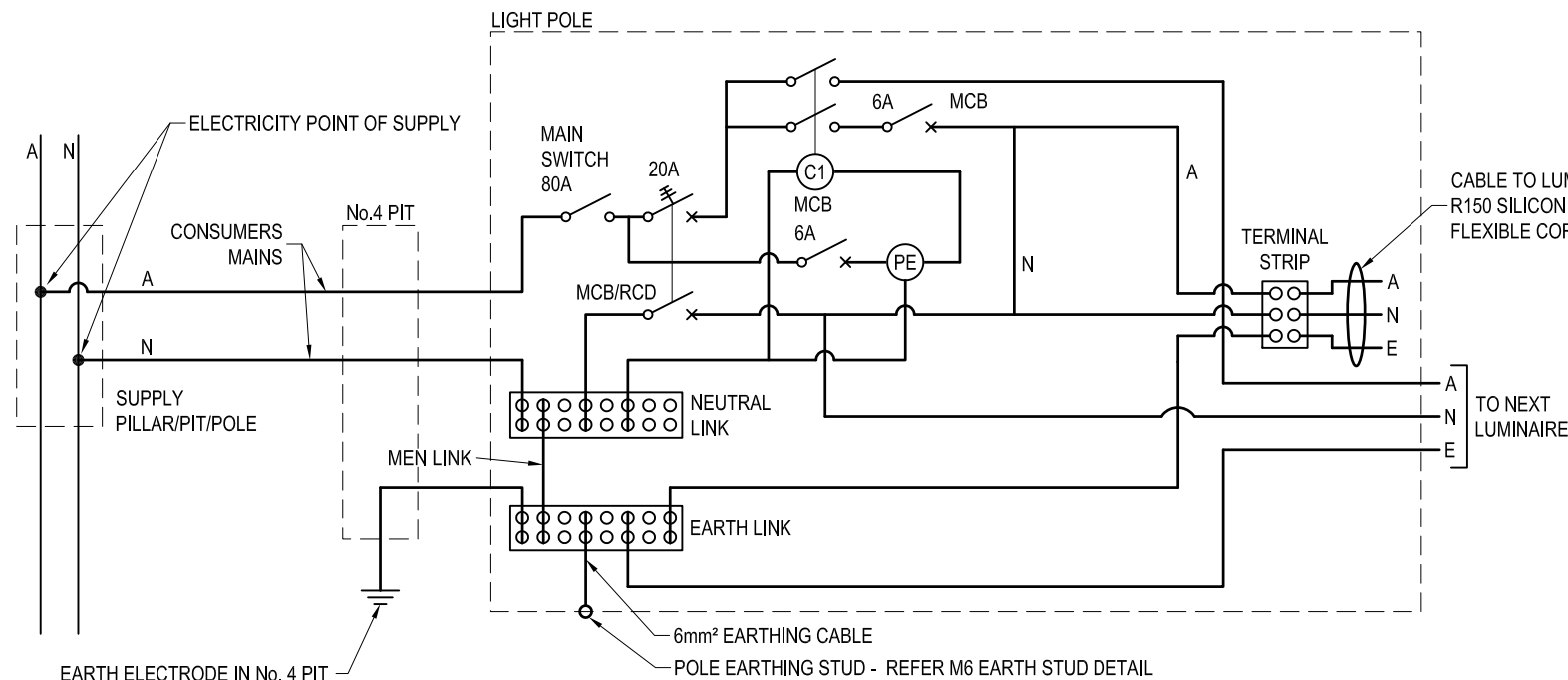
SCALE 1:25 (APPROX.)



BRISBANE CITY COUNCIL STANDARD DRAWING

PEDESTRIAN LIGHTING - TYPE 1 MAIN
SWITCHBOARD AND CONTROL PANEL
ARRANGEMENT AND SCHEMATIC - SHEET 1 OF 2

PUBLISH DATE		NOV 2019
SCALE		AS SHOWN
DRAWING NUMBER		BSD-11001
ORIGINAL SIZE	REVISION	
A3	B	



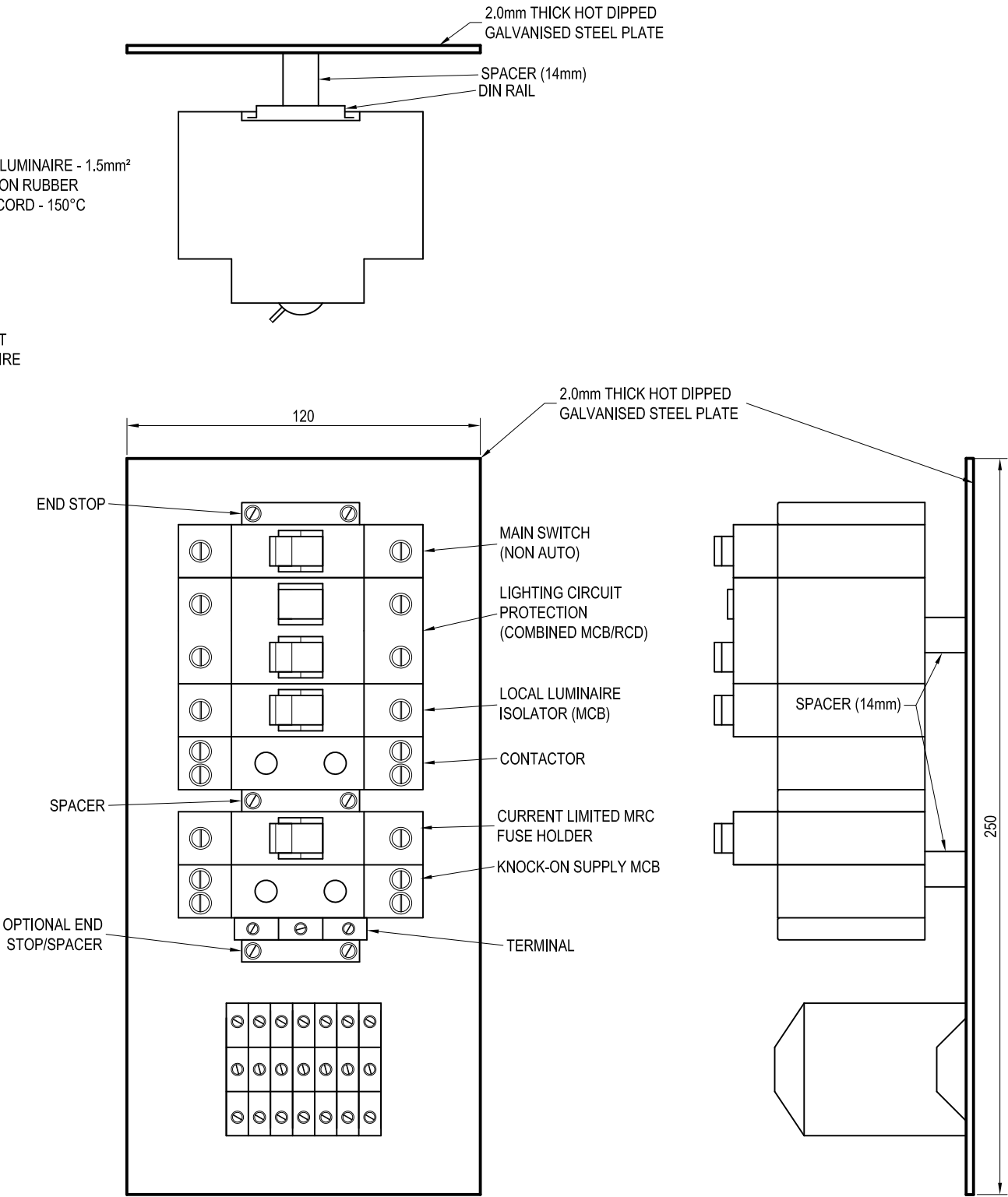
WIRING SCHEMATIC
NOT TO SCALE

NOTES:

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS.3000.
2. PE CELL IS TO BE INSTALLED 50mm ABOVE THE TOP OF THE REMOVABLE ACCESS PANEL, FACING TOWARDS THE PROPERTY BOUNDARY.
3. THE ELECTRICAL CONDUIT INSTALLED PARALLEL TO THE PROPERTY BOUNDARY IS TO BE POSITIONED WITHIN THE 0 - 900mm UNDERGROUND ELECTRICITY ALIGNMENT WITH A MINIMUM CLEARANCE OF 100mm FROM OTHER ELECTRICAL CONDUITS, AND LOCATED ON THE ROADWAY SIDE OF THE 0 - 900mm UNDERGROUND ELECTRICITY ALIGNMENT. REFER TO BRISBANE CITY COUNCIL STANDARD DRAWINGS BSD-1013 TO BSD-1016 FOR FURTHER DETAILS.
4. MAIN SWITCHBOARDS AND CONTROL PANELS CAN BE PURCHASED FROM BRISBANE CITY COUNCIL. CONTACT CITY LIGHTING SECTION ON TELEPHONE No. 07 3027 4491 TO ARRANGE.
5. ENDS OF CONDUITS ARE TO BE SEALED WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN.
6. EXTERNAL BASE OF LIGHT POLE IS TO BE SEALED WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN.
7. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

EQUIPMENT LIST

ITEM	DESCRIPTION
MAIN SWITCH	63A C/B AMP - NON AUTO - DIN RAIL MOUNTED - 10kA - CLIPSAL OR EQUAL APPROVED
COMBINED MINIATURE CIRCUIT BREAKER AND RESIDUAL CURRENT DEVICE (MCB/RCD)	20 AMP - DIN RAIL MOUNTED - TYPE A - C CURVE RCD - 30mA TRIPPING CURRENT - 10kA - 2 POLE TYPE - CLIPSAL OR EQUAL APPROVED (2 POLE REQUIRED TO ACHIEVE 10kA)
MINIATURE CIRCUIT BREAKER (MCB)	6 AMP - DIN RAIL MOUNTED - 10kA - CLIPSAL OR EQUAL APPROVED
NEUTRAL LINK	INSULATED BASE TYPE - 16mm² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING
EARTH LINK	16mm² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING
CONTACTOR	MINIMUM 20 AMP - AC3 - 2 POLE - 240V - DIN RAIL MOUNTED - SPRECHER & SCHUH OR EQUAL APPROVED
PE CELL	PHOTO MICROSWITCH - 1000 WATT OUTPUT - ATCO FM S220 OR EQUAL APPROVED
TERMINAL STRIP	15 AMP - INSULATED TYPE - 2 SCREW TYPE - CLIPSAL OR EQUAL APPROVED



MAIN SWITCHBOARD & CONTROL PANEL ARRANGEMENTS (WITH KNOCK-ON SUPPLY)

SCALE 1:25 (APPROX.)

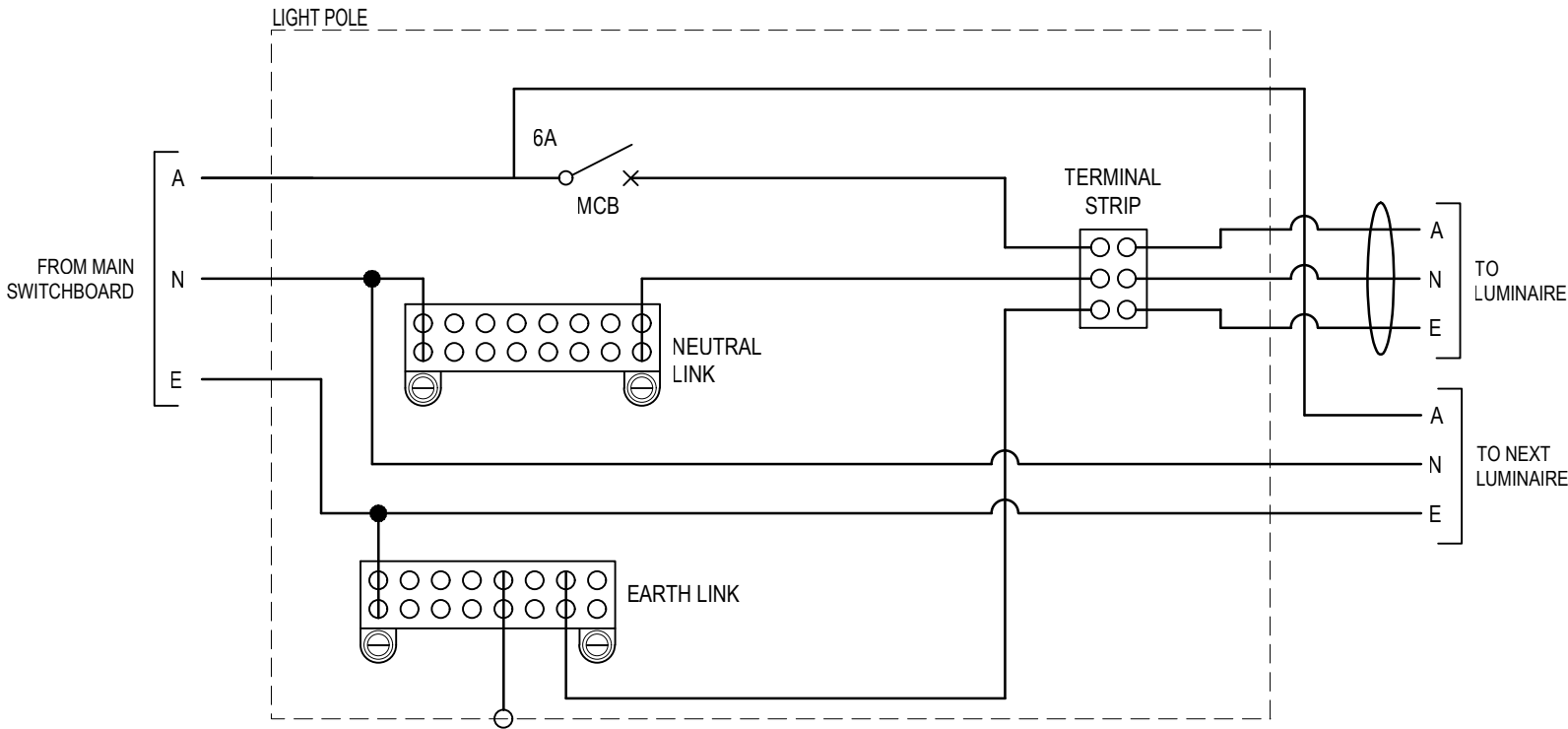


BRISBANE CITY COUNCIL STANDARD DRAWING

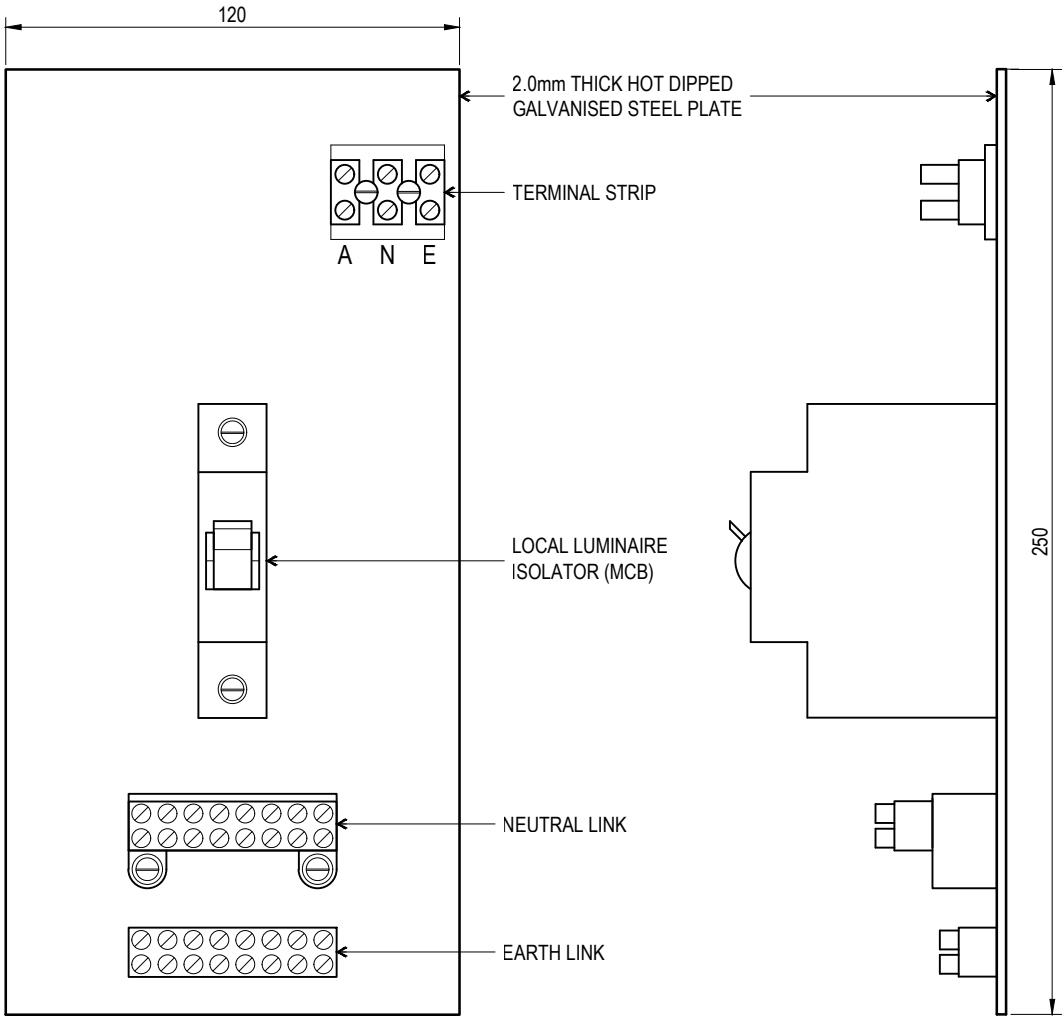
PEDESTRIAN LIGHTING - TYPE 2 MAIN
SWITCHBOARD AND CONTROL PANEL
ARRANGEMENT AND SCHEMATIC - SHEET 2 OF 2

PUBLISH DATE	NOV 2019
SCALE	AS SHOWN
DRAWING NUMBER	BSD-11001
ORIGINAL SIZE	A3
REVISION	B

EQUIPMENT LIST	
ITEM	DESCRIPTION
MINIATURE CIRCUIT BREAKER (MCB)	6 AMP - DIN RAIL MOUNTED - 10kA - CLIPSAL OR EQUAL APPROVED
NEUTRAL LINK	INSULATED BASE TYPE - 16mm² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING
EARTH LINK	16mm² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING
TERMINAL STRIP	15 AMP - INSULATED TYPE - 2 SCREW TYPE - CLIPSAL OR EQUAL APPROVED



WIRING SCHEMATIC
NOT TO SCALE



CONTROL PANEL ARRANGEMENT
SCALE 1:25 (APPROX.)

NOTES:

1.

ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS3000.
2.

THE ELECTRICAL CONDUIT INSTALLED PARALLEL TO THE PROPERTY BOUNDARY IS TO BE POSITIONED WITHIN THE 0 - 900mm UNDERGROUND ELECTRICITY ALIGNMENT WITH A MINIMUM CLEARANCE OF 100mm FROM OTHER ELECTRICAL CONDUITS, AND LOCATED ON THE ROADWAY SIDE OF THE 0 - 900mm UNDERGROUND ELECTRICITY ALIGNMENT. REFER TO BRISBANE CITY COUNCIL STANDARD DRAWINGS BSD-1013 TO BSD-1016 FOR FURTHER DETAILS.
3.

MAIN SWITCHBOARDS AND CONTROL PANELS CAN BE PURCHASED FROM BRISBANE CITY COUNCIL. CONTACT CITY LIGHTING ON TELEPHONE No. 07 3027 8888 TO ARRANGE.
4.

EXTERNAL BASE OF LIGHT POLE IS TO BE SEALED WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN.
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

PEDESTRIAN LIGHTING
CONTROL PANEL
ARRANGEMENT AND SCHEMATIC

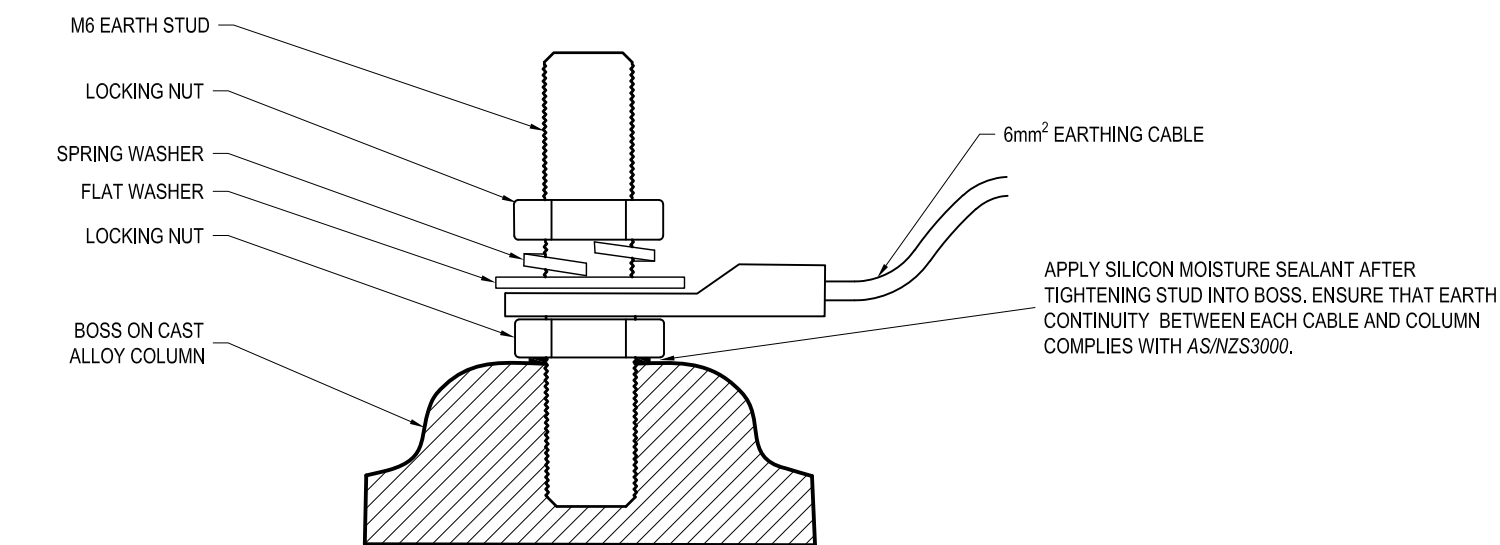
PUBLISH DATE
Dec 2023

SCALE
AS SHOWN

DRAWING NUMBER
BSD-11002

ORIGINAL SIZE
A3

REVISION
C



NOTE:
ALL FASTENERS TO BE GRADE 316 STAINLESS STEEL.

M6 EARTH STUD DETAIL FOR PEDESTRIAN LIGHT POLE
NOT TO SCALE

LIGHTING SITE COMPONENT SCHEDULE			
EQUIPMENT	SYMBOL	TYPE	DESCRIPTION
SUPPORT STRUCTURE		A	AS PER BSD-11004
CONTROL PANEL ARRANGEMENT			SINGLE SITE CONTROL ARRANGEMENT COMPLETE WITH ALLOWANCE FOR INDEPENDENT SWITCHING. MOUNT IN BASE OF LIGHT POLE.
MAIN SWITCHBOARD AND CONTROL PANEL ARRANGEMENT			MULTI SITE CONTROL ARRANGEMENT COMPLETE WITH ALLOWANCE FOR INDEPENDENT SWITCHING. MOUNT IN BASE OF LIGHT POLE
LUMINAIRE FITTING		L	AS PER BSD-11004



BRISBANE CITY COUNCIL STANDARD DRAWING

PEDESTRIAN LIGHTING
M6 EARTHING STUD DETAIL AND
LIGHT SITE COMPONENT SCHEDULE

PUBLISH DATE		NOV 2019
SCALE		AS SHOWN
DRAWING NUMBER		BSD-11003
ORIGINAL SIZE	REVISION	
A3	B	

LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL)
MAXIMUM WEIGHT: 8.4kg
MAXIMUM WIND CATCHING AREA: 0.13m²
MAXIMUM HEIGHT: 275mm
TO ENSURE THAT THE LIGHT POLE CAN BE SAFELY MOUNTED ON EXISTING FOOTINGS.

TOTAL MAXIMUM HEIGHT OF PEDESTRIAN LIGHT POLE AND LUMINAIRE TO NOT EXCEED 3275mm.

FOR NEW INSTALLATIONS REFER TO SHEET 7 (BSD-11004). WHEN MOUNTING TO EXISTING FOOTINGS, REFER TO SHEET 8 (BSD-11004).

EQUIPMENT LIST

ITEM NO.	DESCRIPTION	QTY.
1	MAIN SWITCHBOARD AND CONTROL PANEL ARRANGEMENT AND SCHEMATIC (BSD-11001)	1
2	3 METRE LIGHT POLE MAIN BODY	1
3	LIGHT POLE ACCESS HATCH	1
4	LIGHT POLE CURVED LOGO BADGE	1
5	M16 316 STAINLESS STEEL NUT AND WASHER	4
6	M5 316 STAINLESS STEEL HEX NUT	2
7	LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL) REFER TO BRISBANE CITY COUNCIL FOR APPROVED LUMINAIRE DETAILS	1
8	M6 x16mm 316 STAINLESS STEEL BUTTON HEAD TORX SECURITY SCREW	5
9	M6 316 STAINLESS STEEL HEX NUT	1

STANDARDS

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

- AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
- AS1158.3.1 - ROAD LIGHTING , PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- AS4680 - HOT DIP GALVANISING.
- AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
- AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

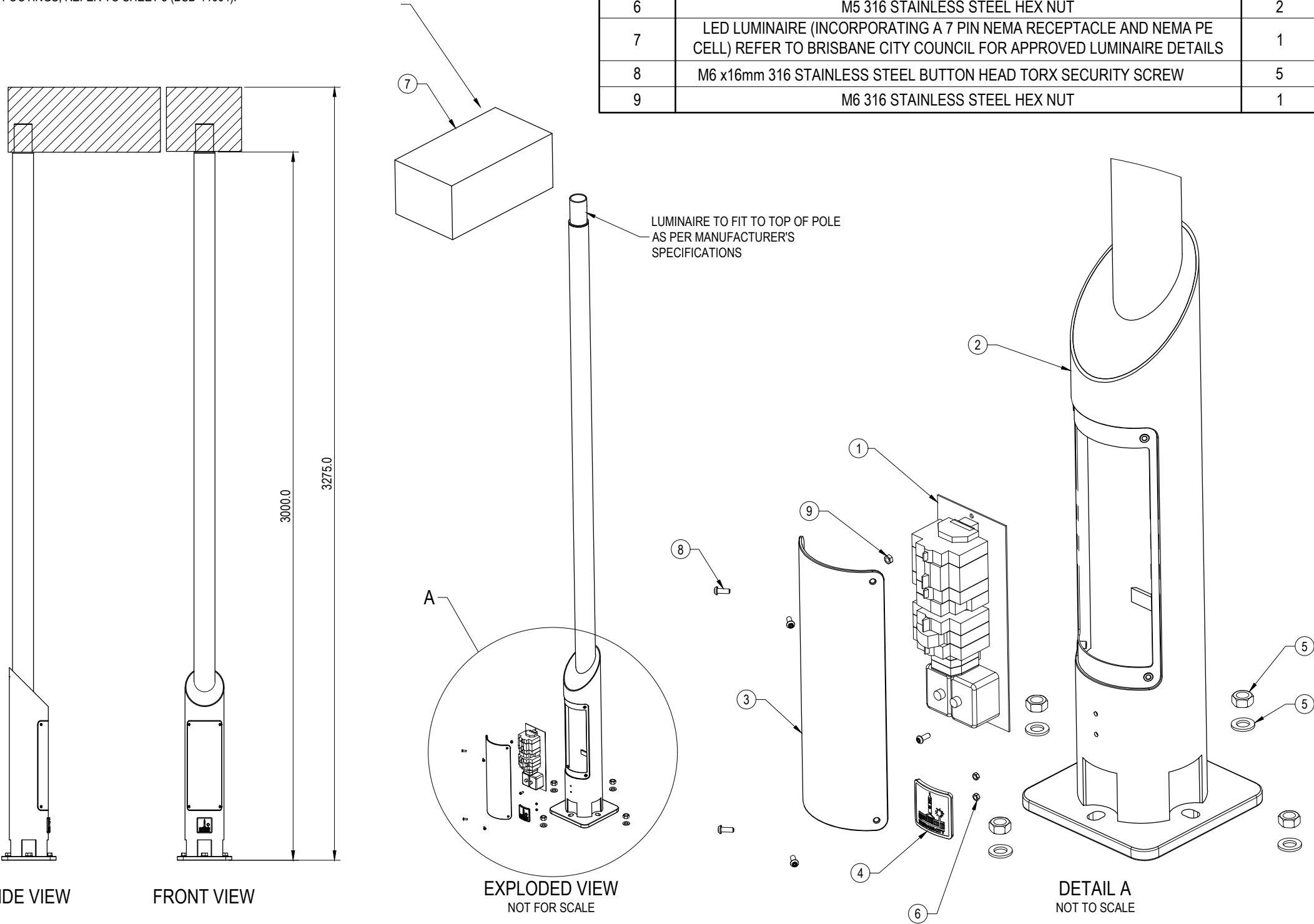
- ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- MATERIAL: SEE COMPONENT DRAWING
- COLOUR:
LED LUMINAIRE - RAL 7010 TARPAULIN GREY OR APPROVED EQUIVALENT.
LIGHT POLE - DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
- FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - LOCATION AND WIND: CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
 - COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.



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

3 METRE PEDESTRIAN LIGHT POLE
MAIN ASSEMBLY
SHEET 1 OF 8

PUBLISH DATE

March 2021

SCALE

NOT TO SCALE

DRAWING NUMBER

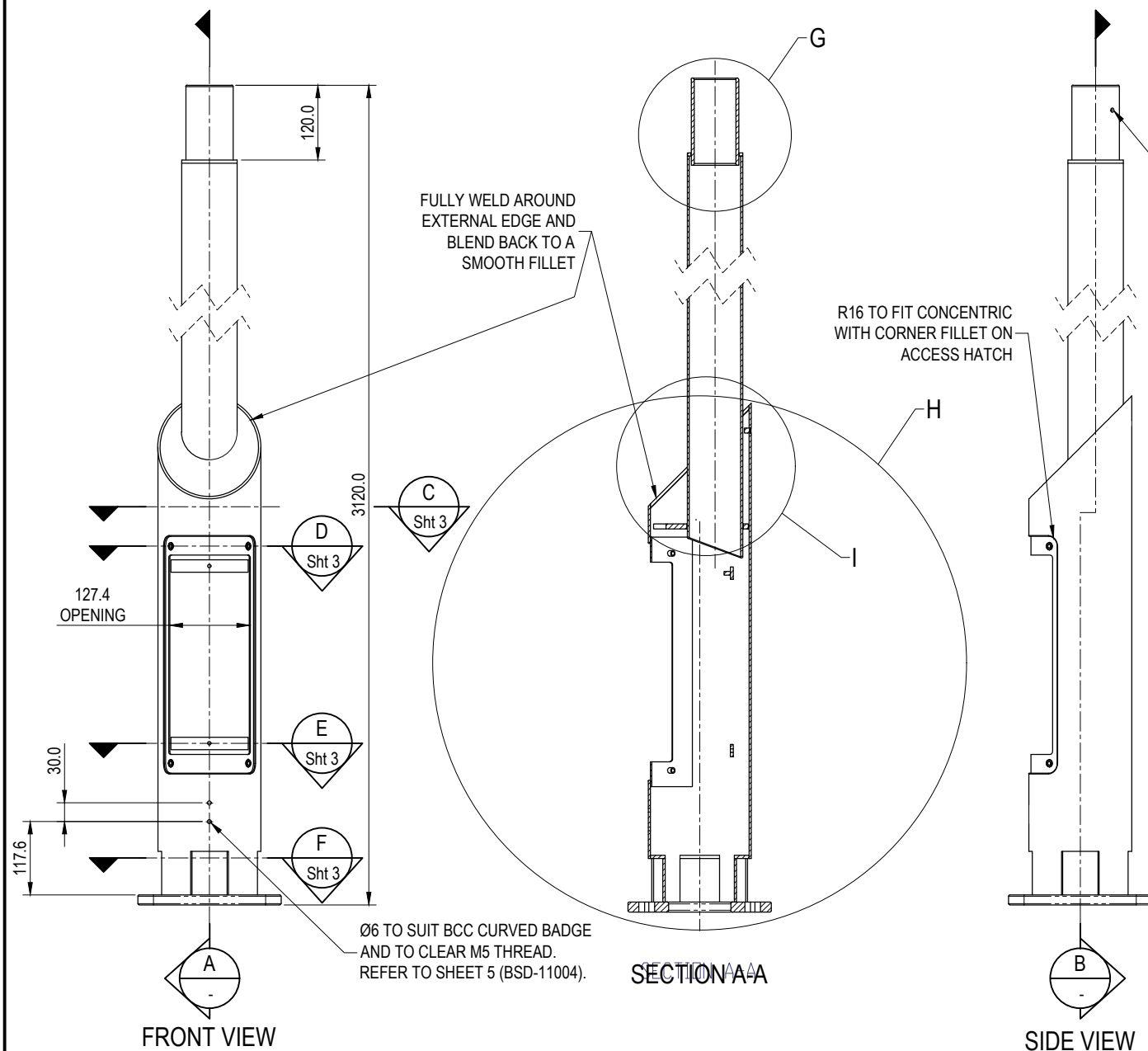
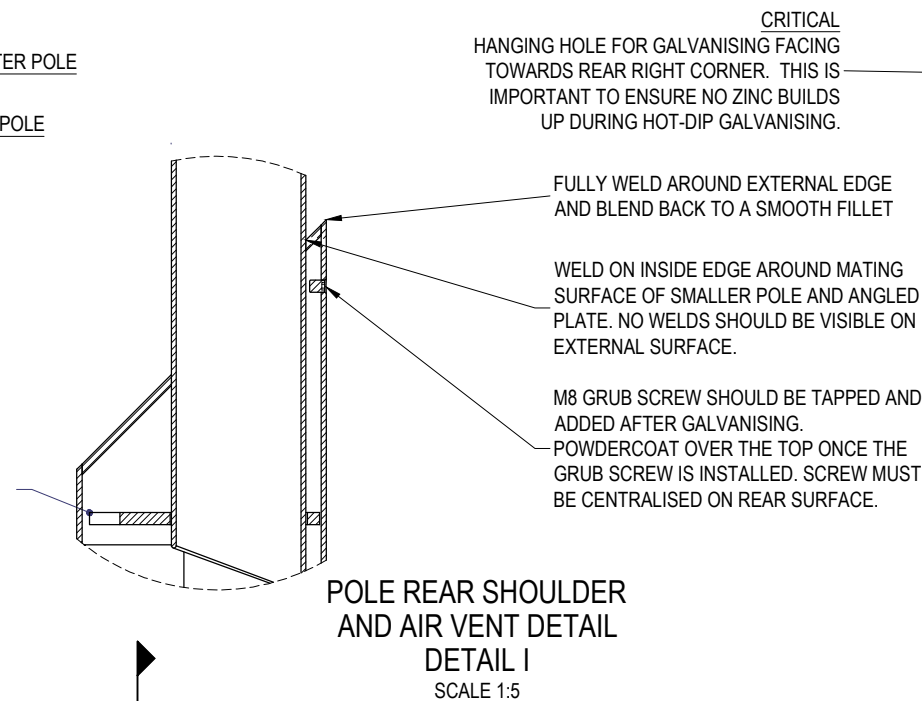
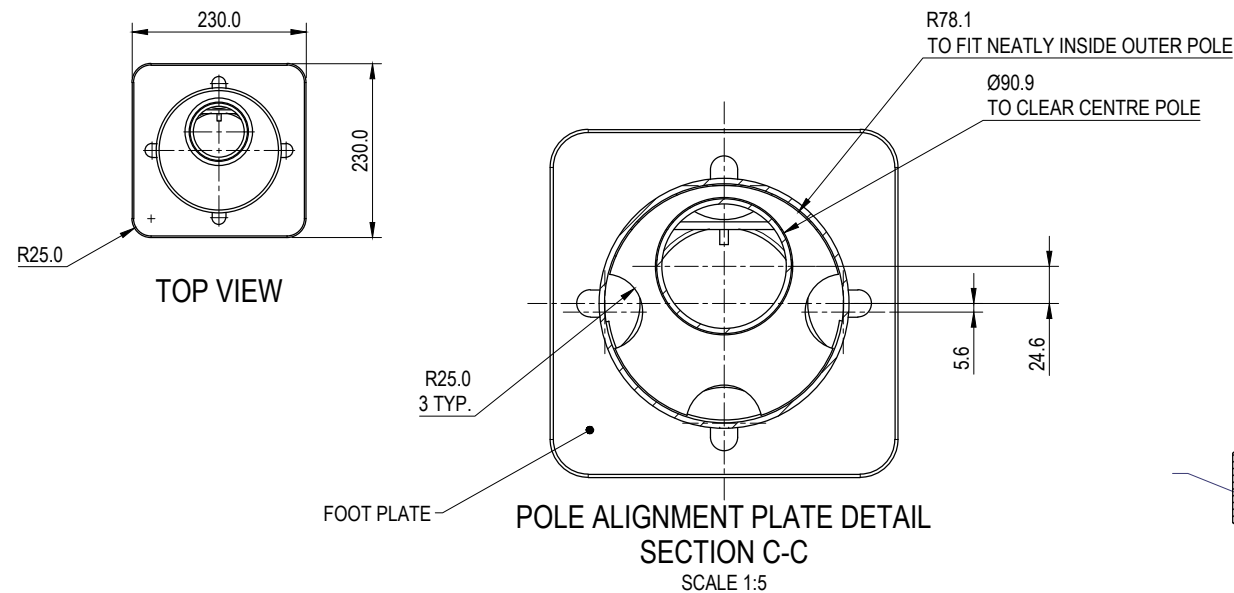
BSD-11004

ORIGINAL SIZE

A3

REVISION

C



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

3 METRE PEDESTRIAN LIGHT POLE
MAIN BODY
SHEET 2 OF 8

STANDARDS

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

- AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
- AS1158.3.1 - ROAD LIGHTING, PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- AS4680 - HOT DIP GALVANISING.
- AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
- AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS,
SCUFFS, DISTORTION AND WARPAGE.

- ALL TOLERANCES $\pm 1.5\text{mm}$ UNLESS OTHERWISE SPECIFIED.
- DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

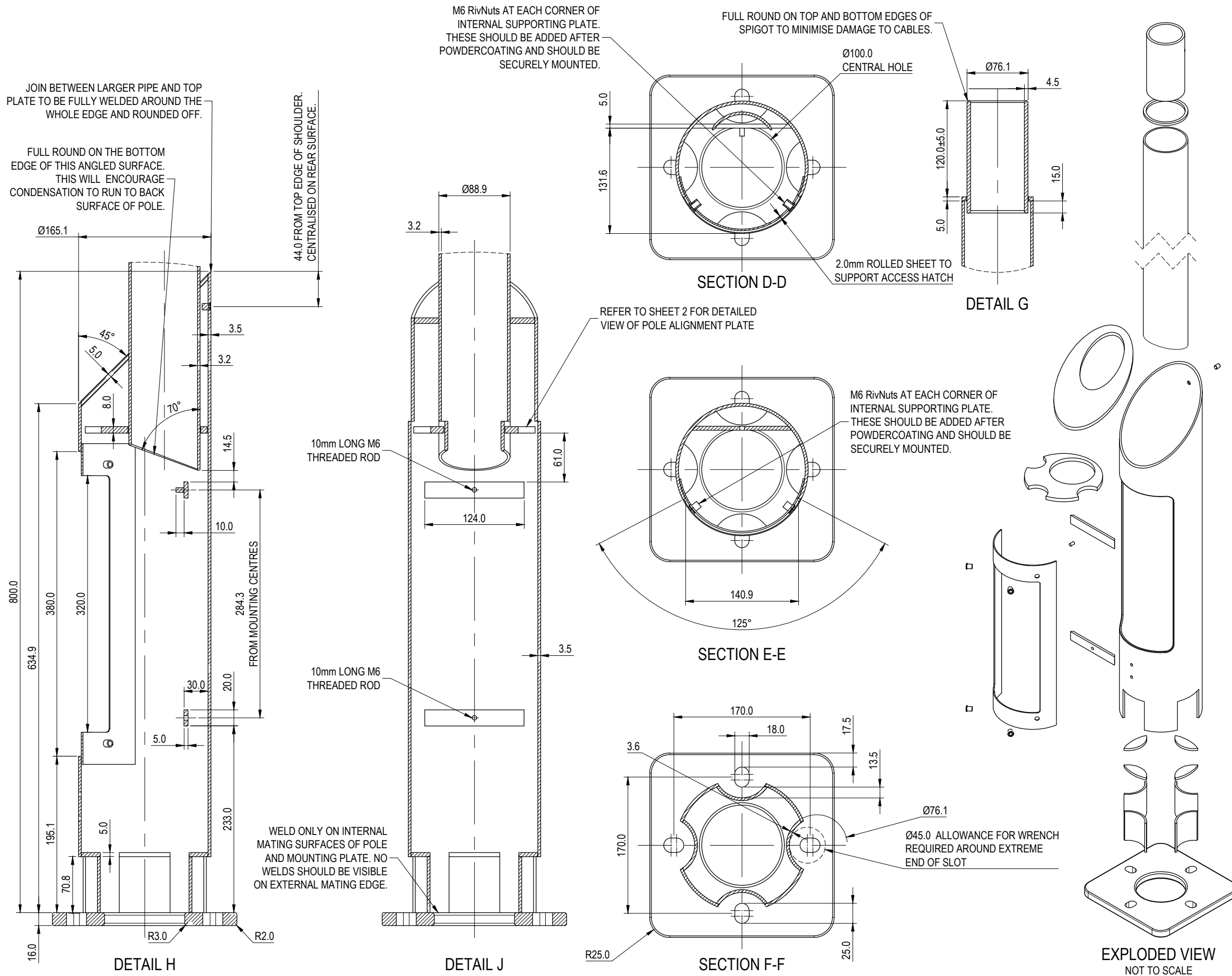
MATERIALS

- MATERIAL: MILD STEEL G350
- COLOUR: DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
- FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - LOCATION AND WIND: CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
 - COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

PUBLISH DATE	March 2021
SCALE	1:10
DRAWING NUMBER	BSD-11004
ORIGINAL SIZE	A3
REVISION	C



STANDARDS

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

1. AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
2. AUSTRROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
3. AS1158.3.1 - ROAD LIGHTING , PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
4. AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
5. AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
6. AS4680 - HOT DIP GALVANISING.
7. AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
8. AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

1. ALL TOLERANCES $\pm 1.5\text{mm}$ UNLESS OTHERWISE SPECIFIED.
2. DRAWING TO AS1100 DRAWING STANDARDS.
3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
4. POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
6. 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
7. ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

1. MATERIAL: MILD STEEL G350
2. COLOUR: DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
3. FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

1. STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - LOCATION AND WIND: CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
 - COMPONENTS CERTIFIED: MAIN STRUCTURE
2. SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
3. LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
4. ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

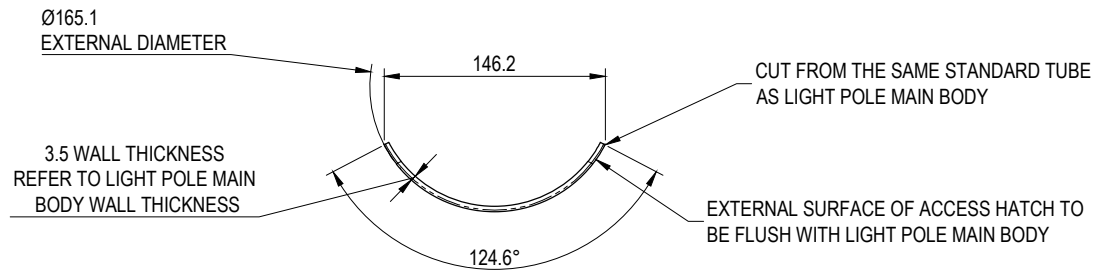
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

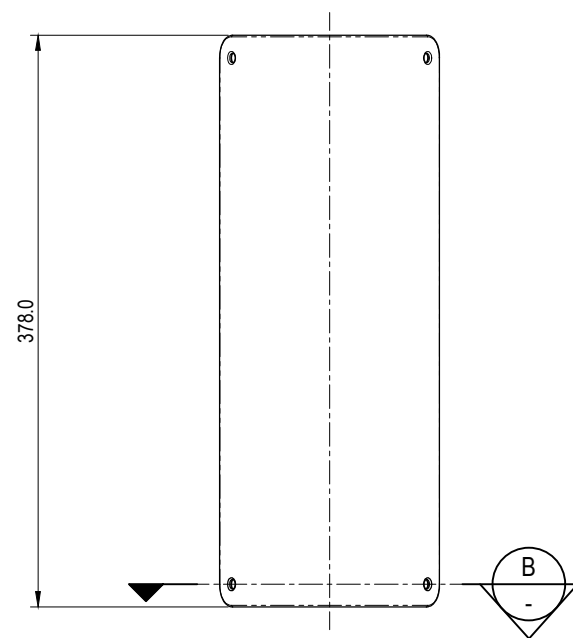
3 METRE PEDESTRIAN LIGHT POLE
MAIN BODY DETAILS
SHEET 3 OF 8

PUBLISH DATE	
March 2021	
SCALE	
1:10	
DRAWING NUMBER	
BSD-11004	
ORIGINAL SIZE	REVISION
A3	C

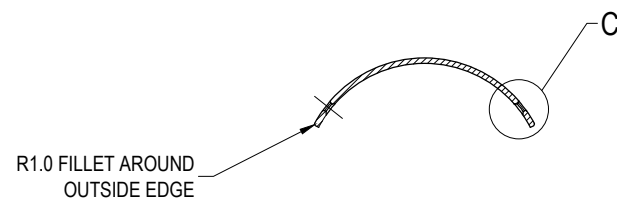


AUXILIARY VIEW 'A'

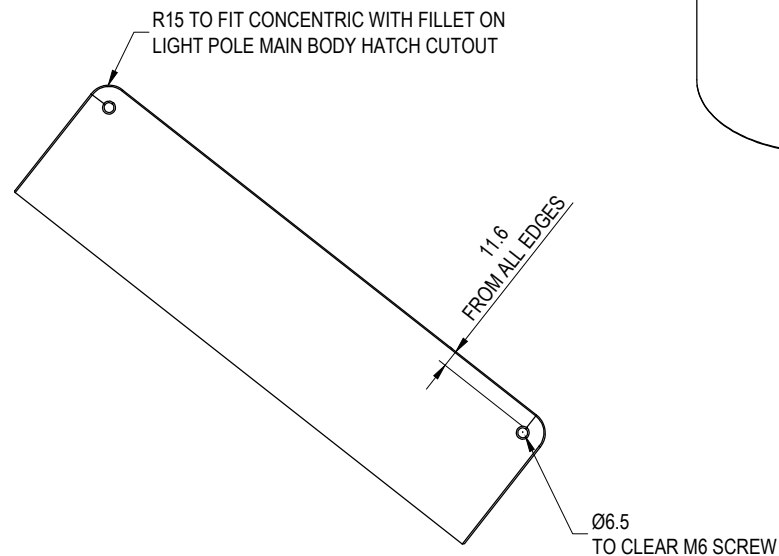
TOP VIEW



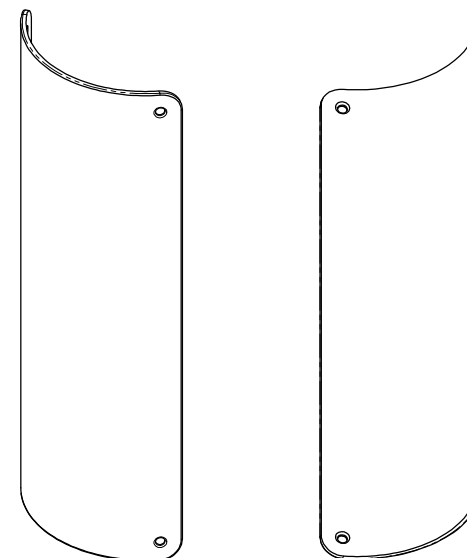
FRONT VIEW



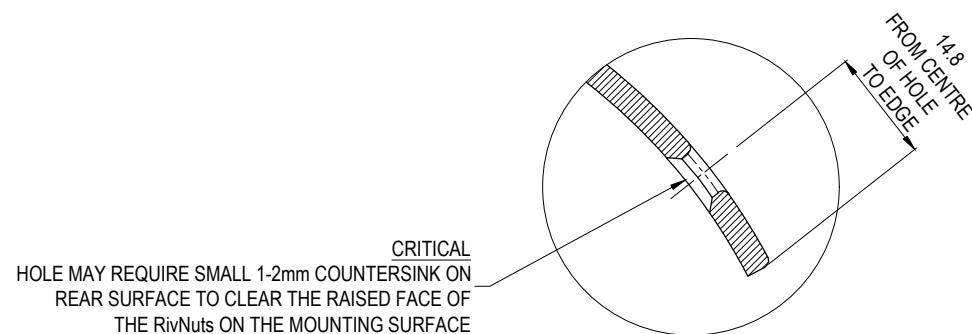
SECTION B-B



AUXILIARY VIEW 'A'



PICTORIAL VIEWS
NOT TO SCALE



DETAIL C
SCALE 1:1

STANDARDS

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

1. AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
2. AUSTRROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
3. AS1158.3.1 - ROAD LIGHTING , PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
4. AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
5. AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
6. AS4680 - HOT DIP GALVANISING.
7. AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
8. AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

1. ALL TOLERANCES $\pm 1.5\text{mm}$ UNLESS OTHERWISE SPECIFIED.
2. DRAWING TO AS1100 DRAWING STANDARDS.
3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
4. POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
6. 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
7. ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

1. MATERIAL: MILD STEEL G350
2. COLOUR: DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
3. FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

1. STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - LOCATION AND WIND: CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
 - COMPONENTS CERTIFIED: MAIN STRUCTURE
2. SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
3. LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
4. ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

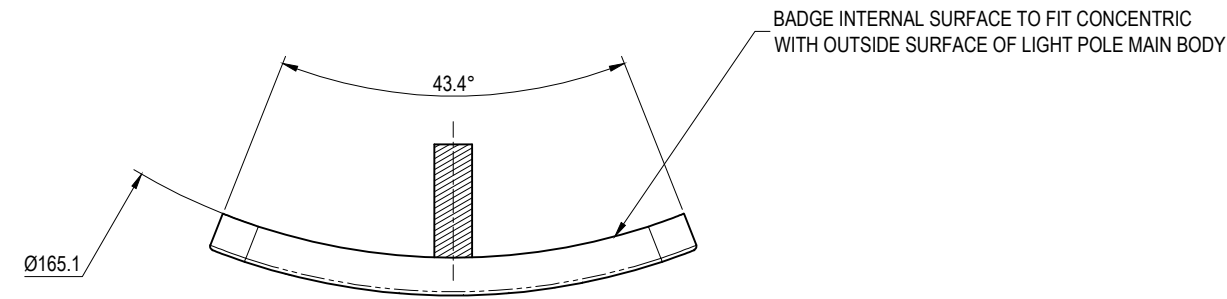
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



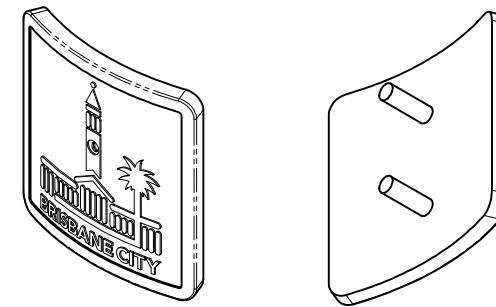
BRISBANE CITY COUNCIL STANDARD DRAWING

3 METRE PEDESTRIAN LIGHT POLE
ACCESS HATCH
SHEET 4 OF 8

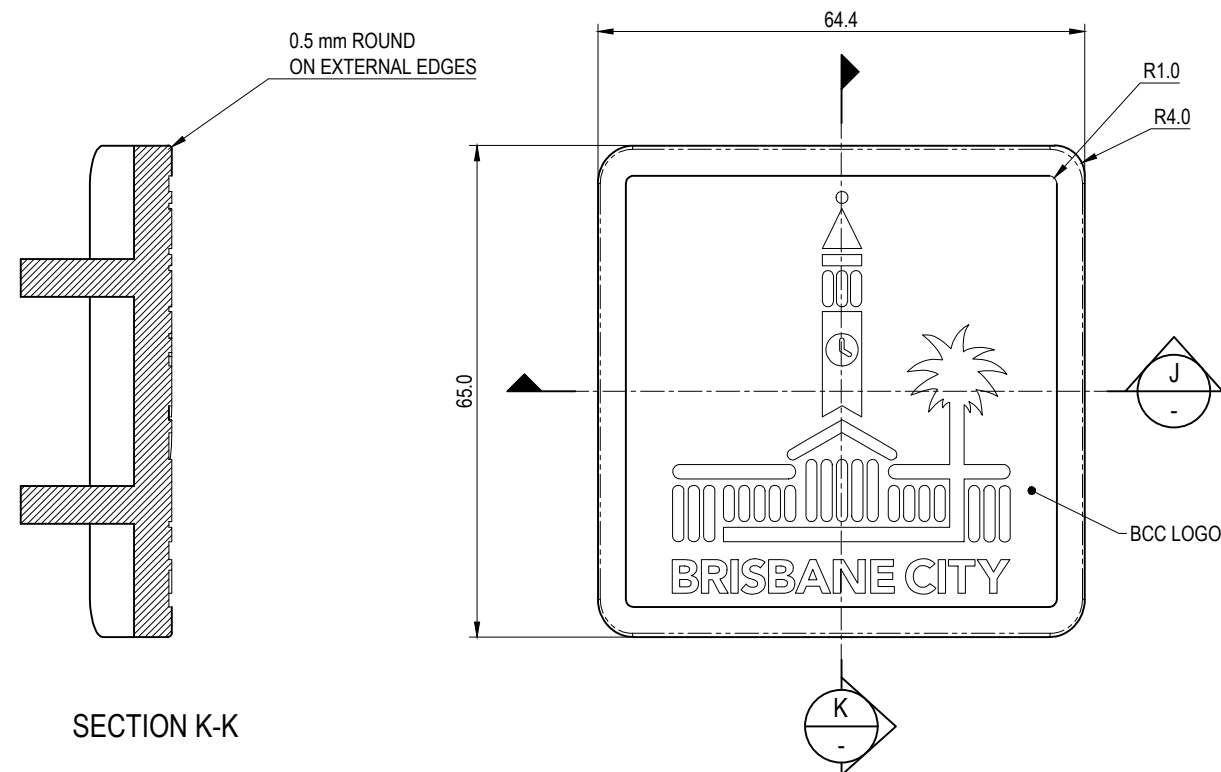
PUBLISH DATE March 2021	
SCALE 1:10	
DRAWING NUMBER BSD-11004	
ORIGINAL SIZE A3	REVISION C



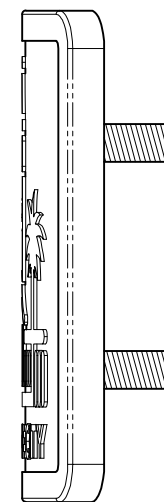
TOP VIEW



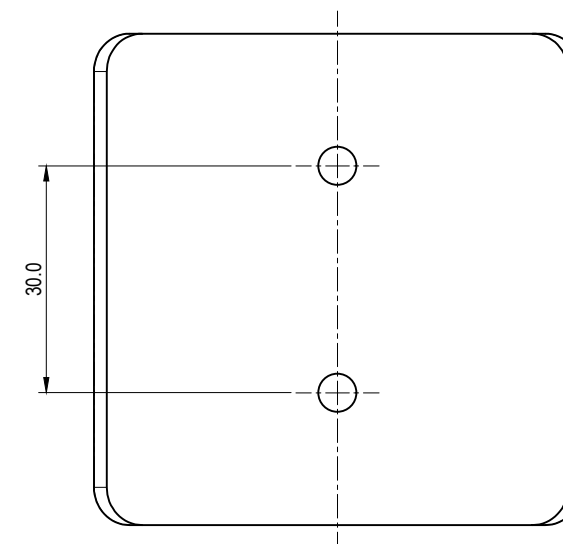
PICTORIAL VIEWS
NOT TO SCALE



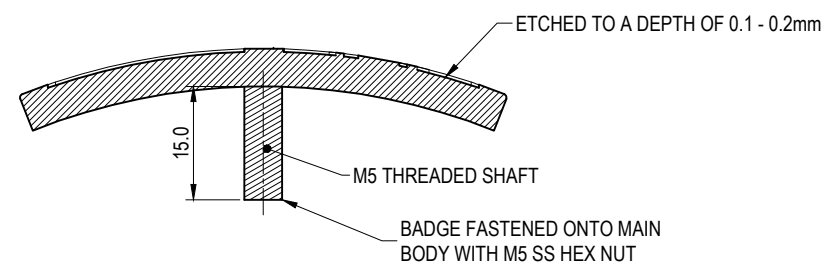
FRONT VIEW



SIDE VIEW



REAR VIEW



SECTION J-J

SECTION K-K

STANDARDS

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

1. AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
2. AUSTRROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
3. AS1158.3.1 - ROAD LIGHTING , PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
4. AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
5. AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
6. AS4680 - HOT DIP GALVANISING.
7. AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
8. AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

1. ALL TOLERANCES $\pm 1.5\text{mm}$ UNLESS OTHERWISE SPECIFIED.
2. DRAWING TO AS1100 DRAWING STANDARDS.
3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
4. POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
6. 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
7. ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

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

DESIGN NOTES:

1. STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - LOCATION AND WIND: CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
 - COMPONENTS CERTIFIED: MAIN STRUCTURE
2. SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
3. LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
4. ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

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

3 METRE PEDESTRIAN LIGHT POLE
CURVED LOGO BADGE
SHEET 5 OF 8

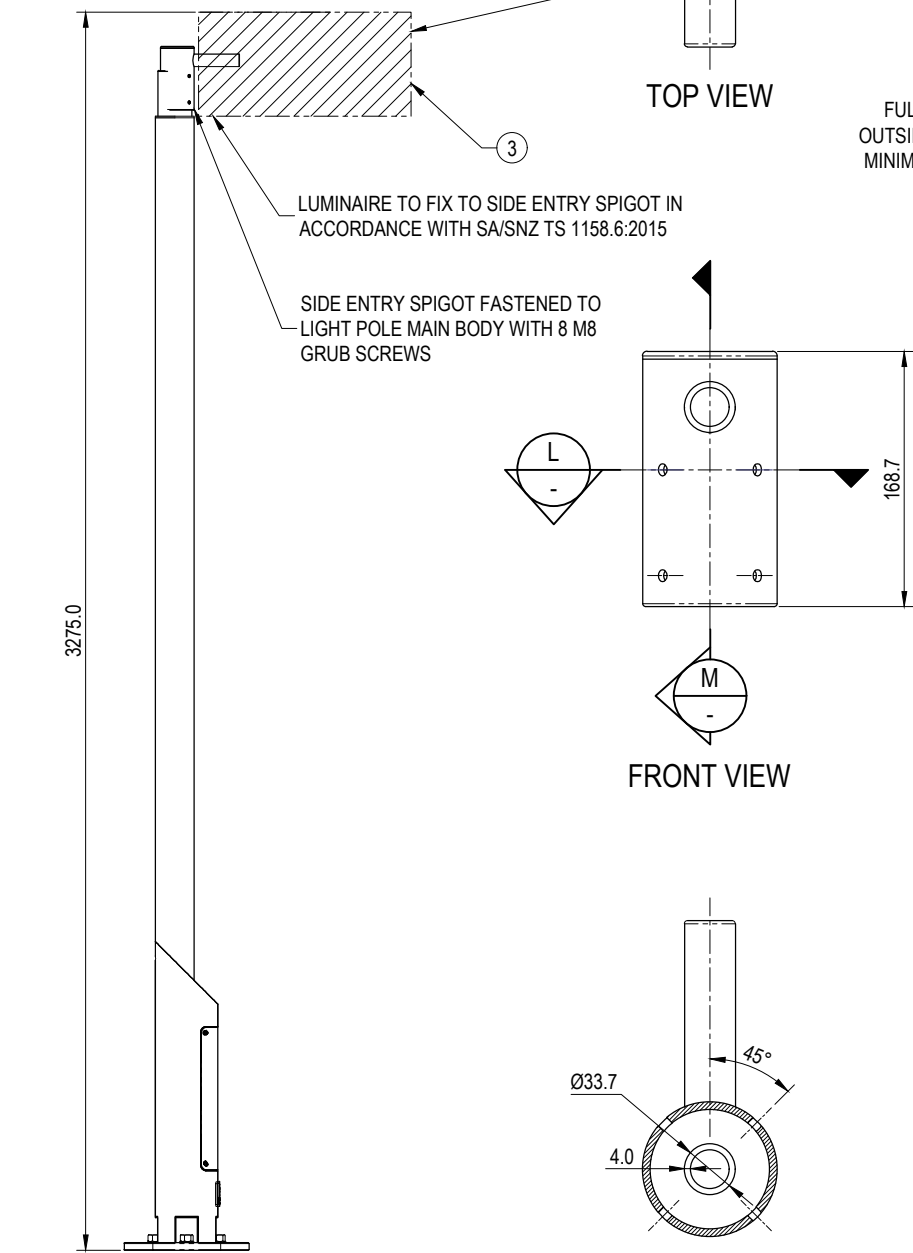
PUBLISH DATE	
March 2021	
SCALE	
1:1	
DRAWING NUMBER	
BSD-11004	
ORIGINAL SIZE	REVISION
A3	C

SIDE MOUNT LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL)
MAXIMUM WEIGHT: 6.9kg
MAXIMUM WIND CATCHING AREA: 0.1m2/
TO ENSURE THAT THE LIGHT POLE CAN BE SAFELY MOUNTED ON EXISTING FOOTINGS.

TOTAL MAXIMUM HEIGHT O PEDESTRIAN LIGHT POLE AND LUMINAIRE TO NOT EXCEED 3275mm.

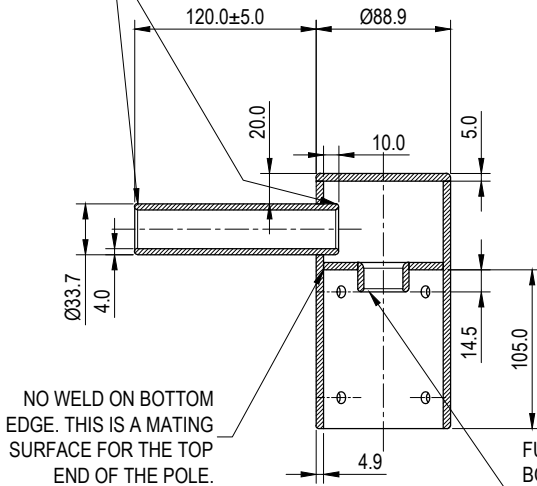
FOR NEW INSTALLATIONS REFER TO SHEET 7 (BSD-11004).

WHEN MOUNTING TO EXISTING FOOTINGS, REFER TO SHEET 8 (BSD-11004).



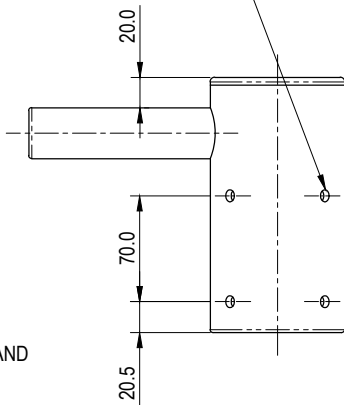
SIDE ENTRY LUMINAIRE
GENERAL ASSEMBLY
SCALE 1:20

FULL ROUND ON INSIDE AND OUTSIDE EDGES OF SPIGOT TO MINIMISE DAMAGE TO CABLES.

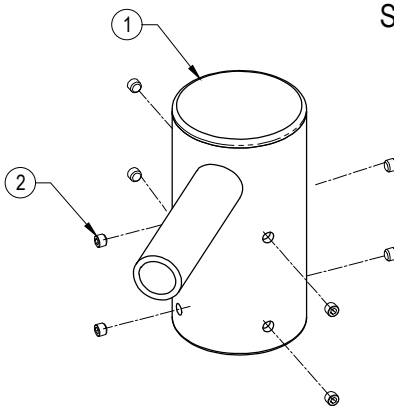


SECTION M-M

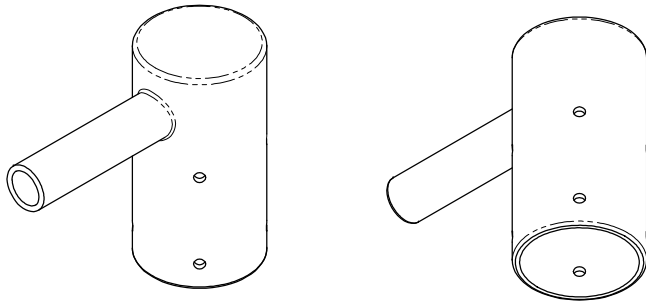
M8 THREAD TO HOLD M8 GRUB SCREWS FOR MOUNTING TO LIGHT POLE MAIN BODY



RIGHT VIEW



SIDE VIEW



PICTORIAL VIEW
NOT TO SCALE

STANDARDS

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

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- AS1158.3.1 - ROAD LIGHTING , PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- AS4680 - HOT DIP GALVANISING.
- AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
- AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

- ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- MATERIAL: MILD STEEL G350
- COLOUR:
LED LUMINAIRE - RAL 7010 TARPULIN GREY OR APPROVED EQUIVALENT.
LIGHT POLE AND SPIGOT - DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
- FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - LOCATION AND WIND: CITY OF BRISBANE, REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
 - COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

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

3 METRE PEDESTRIAN LIGHT POLE
ALTERNATIVE SIDE ENTRY
SHEET 6 OF 8

PUBLISH DATE

March 2021

SCALE

1:5

DRAWING NUMBER

BSD-11004

ORIGINAL SIZE

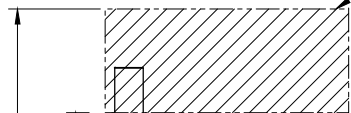
A3

REVISION

C

LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL)
MAXIMUM WEIGHT: 8.4kg
MAXIMUM WIND CATCHING AREA: 0.13m²
MAXIMUM HEIGHT: 275mm

TOTAL MAXIMUM HEIGHT OF PEDESTRIAN LIGHT POLE AND LUMINAIRE TO NOT EXCEED 3275mm.



SEAL EXTERNAL BASE OF POLES WITH A NON-SHRINK GROUT UNDER BASE WITH MORTAR MIX OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN. ENSURE THE GROUT IS FLUSH WITH THE UNDERSIDE OF THE BASE PLATE AND TAPERED AWAY FROM THE POLE AT APPROXIMATELY 45°. A MINIMUM 12mm WEEP HOLE IS RECOMMENDED TO ALLOW FOR DRAINAGE OF CONDENSATION FROM INSIDE THE POLE.

REFER TO BSD-5202, 5206, 5207 AND 5210 FOR PAVEMENT DETAILS. REFER TO PROJECT DRAWINGS FOR FINISHES

5 N16 UBARS TOP AND BOTTOM EACH WAY.

CONCRETE PEDESTAL AS REQUIRED.

KERB AND CHANNEL

DAMP PROOF MEMBRANE.

GEOTECHNICAL ENGINEER TO CONFIRM THAT GROUND HAS MINIMUM 100kPa ALLOWABLE BEARING CAPACITY.

RAG BOLT, PEDESTAL AND FOOTING
TOP VIEW
SCALE 1:20

RAG BOLT AND PEDESTAL
TOP VIEW
NOT TO SCALE

FOOTING DETAIL
NOT TO SCALE

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

3 METRE PEDESTRIAN LIGHT POLE
INSTALLATION ON NEW FOOTING
SHEET 7 OF 8

PUBLISH DATE		March 2021
SCALE		1:10
DRAWING NUMBER		BSD-11004
ORIGINAL SIZE	REVISION	
A3	C	

STANDARDS

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

- AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
- AS1158.3.1 - ROAD LIGHTING , PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- AS4680 - HOT DIP GALVANISING.
- AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
- AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

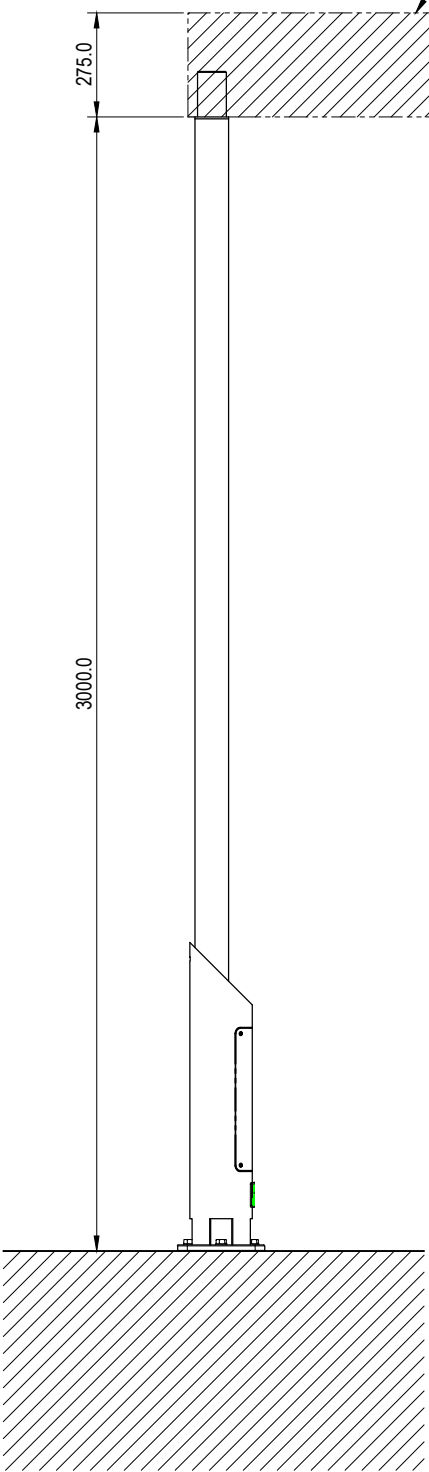
- ALL TOLERANCES $\pm 1.5\text{mm}$ UNLESS OTHERWISE SPECIFIED.
- DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- LIGHTING DESIGN IS TO BE CERTIFIED BY AN ELECTRICAL RPEQ OR MIES AND ELECTRICAL DESIGN IS TO BE CERTIFIED BY AN ELECTRICAL RPEQ.
- THE CONTRACTOR IS TO ENSURE THAT ALL SERVICE PROVIDER APPROVALS ARE IN PLACE PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL ELECTRICAL WORK IS TO BE UNDERTAKEN BY A QUEENSLAND LICENSED ELECTRICAL CONTRACTOR TO AUSTRALIAN STANDARDS AND COUNCIL REQUIREMENTS.
- CONCRETE TO BE N25 AND COVER TO ALL REINFORCING STEEL TO BE 50mm.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

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

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - LOCATION AND WIND: CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
 - COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.



RIGHT VIEW
SCALE 1:20

LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL)
MAXIMUM WEIGHT: 8.4kg
MAXIMUM WIND CATCHING AREA: 0.13m²
MAXIMUM HEIGHT: 275mm

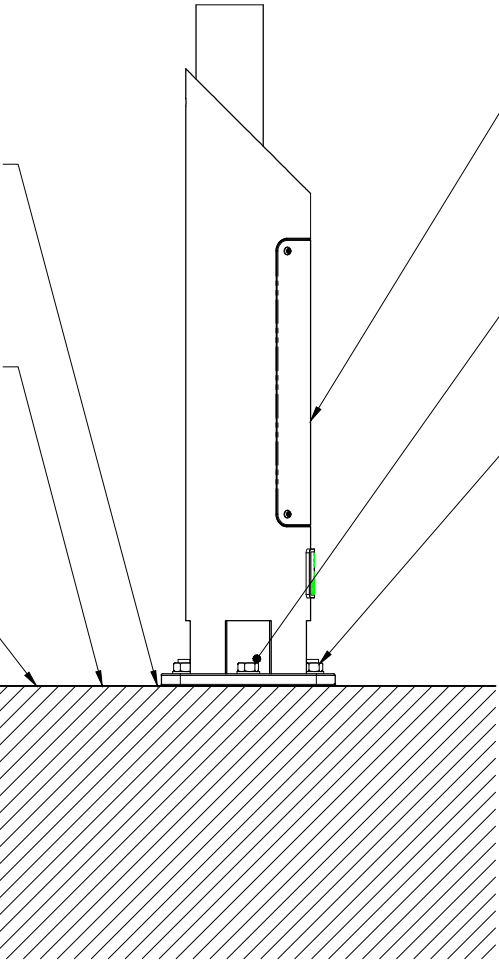
TOTAL MAXIMUM HEIGHT OF PEDESTRIAN LIGHT POLE AND LUMINAIRE TO NOT EXCEED 3275mm.

FOR NEW INSTALLATIONS REFER TO SHEET 7(BSD-11004)

SEAL EXTERNAL BASE OF POLES WITH A NON-SHRINK GROUT UNDER BASE WITH MORTAR MIX OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN. ENSURE THE GROUT IS FLUSH WITH THE UNDERSIDE OF THE BASE PLATE AND TAPERED AWAY FROM THE POLE AT APPROXIMATELY 45°. A MINIMUM 12mm WEEP HOLE IS RECOMMENDED TO ALLOW FOR DRAINAGE OF CONDENSATION FROM INSIDE THE POLE.

REFER TO BSD-5202, 5206, 5207 AND 5210 FOR PAVEMENT DETAILS. REFER TO PROJECT DRAWINGS FOR FINISHES

EXISTING FOOTING.
REFER TO SUPERSEDED DRAWING UMS 594 FOR DETAIL (ACCESSIBLE ON BRISBANE CITY COUNCIL WEBSTER).



FOOTING DETAIL
NOT TO SCALE

STRUCTURAL NOTE:

THE NEW POLE DESIGN IS OF SIMILAR HEIGHT, MASS AND WIND LOADING TO THE ORIGINAL POLE (REFER TO DRAWING FD-0006-1: WITH A MAXIMUM HEIGHT OF 3110mm). THEREFORE IT IS CONSIDERED THAT THE NEW POLE CAN BE MOUNTED ONTO FOOTING THAT WERE CERTIFIED FOR THE ORIGINAL POLE (WHERE RESPONSIBILITY FOR THE STRUCTURAL INTEGRITY AND STRENGTH OF PREVIOUSLY CERTIFIED FOOTINGS REMAINING WITH THE ORIGINAL CERTIFYING ENGINEERS).

THIS OFFICE ASSUMES NO RESPONSIBILITY FOR THE DESIGN AND PERFORMANCE OF THE EXISTING FOOTING. IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAT THE EXISTING FOOTINGS ARE FREE FROM STRUCTURAL CRACKS ETC. AND WITHIN THE BUILDING DEFECTS TOLERANCE LIMITS. ALL EXISTING FOOTINGS THAT CANNOT BE SUFFICIENTLY TESTED FOR STRENGTH MUST USE THE NEW, REDESIGNED FOOTING.

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - LOCATION AND WIND: CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
 - COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

STANDARDS

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

- AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
- AS1158.3.1 - ROAD LIGHTING , PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- AS4680 - HOT DIP GALVANISING.
- AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
- AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

- ALL TOLERANCES $\pm$ 1.5mm UNLESS OTHERWISE SPECIFIED.
- DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- LIGHTING DESIGN IS TO BE CERTIFIED BY AN ELECTRICAL RPEQ OR MIES AND ELECTRICAL DESIGN IS TO BE CERTIFIED BY AN ELECTRICAL RPEQ.
- THE CONTRACTOR IS TO ENSURE THAT ALL SERVICE PROVIDER APPROVALS ARE IN PLACE PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL ELECTRICAL WORK IS TO BE UNDERTAKEN BY A QUEENSLAND LICENSED ELECTRICAL CONTRACTOR TO AUSTRALIAN STANDARDS AND COUNCIL REQUIREMENTS.
- CONCRETE TO BE N25 AND COVER TO ALL REINFORCING STEEL TO BE 50mm.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

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

3 METRE PEDESTRIAN LIGHT POLE
INSTALLATION ON EXISTING FOOTING
SHEET 8 OF 8

PUBLISH DATE		March 2021
SCALE		1:10
DRAWING NUMBER		BSD-11004
ORIGINAL SIZE	REVISION	
A3	C	

LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL)

MAXIMUM WEIGHT: 8.4kg

MAXIMUM WIND CATCHING AREA: 0.13m²

MAXIMUM HEIGHT: 275mm

TOTAL MAXIMUM HEIGHT OF PEDESTRIAN LIGHT POLE AND LUMINAIRE TO NOT EXCEED 5275mm.

FOR NEW INSTALLATIONS REFER TO SHEET 7 (BSD-11005).

THIS LIGHT POLE IS NOT SUITABLE FOR MOUNTING TO EXISTING FOOTINGS.

LUMINAIRE TO FIT TO TOP OF POLE AS PER MANUFACTURER'S SPECIFICATIONS

EQUIPMENT LIST

ITEM NO.	DESCRIPTION	QTY.
1	MAIN SWITCHBOARD AND CONTROL PANEL ARRANGEMENT AND SCHEMATIC (BSD-11001)	1
2	5 METRE LIGHT POLE MAIN BODY	1
3	LIGHT POLE ACCESS HATCH	1
4	LIGHT POLE CURVED LOGO BADGE	1
5	M16 316 STAINLESS STEEL NUT AND WASHER	4
6	M5 316 STAINLESS STEEL HEX NUT	2
7	LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL) REFER TO BRISBANE CITY COUNCIL FOR APPROVED LUMINAIRE DETAILS	1
8	M6 x16mm 316 STAINLESS STEEL BUTTON HEAD TORX SECURITY SCREW	5
9	M6 316 STAINLESS STEEL HEX NUT	1

STANDARDS

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

- AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
- AS1158.3.1 - ROAD LIGHTING , PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- AS4680 - HOT DIP GALVANISING.
- AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
- AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

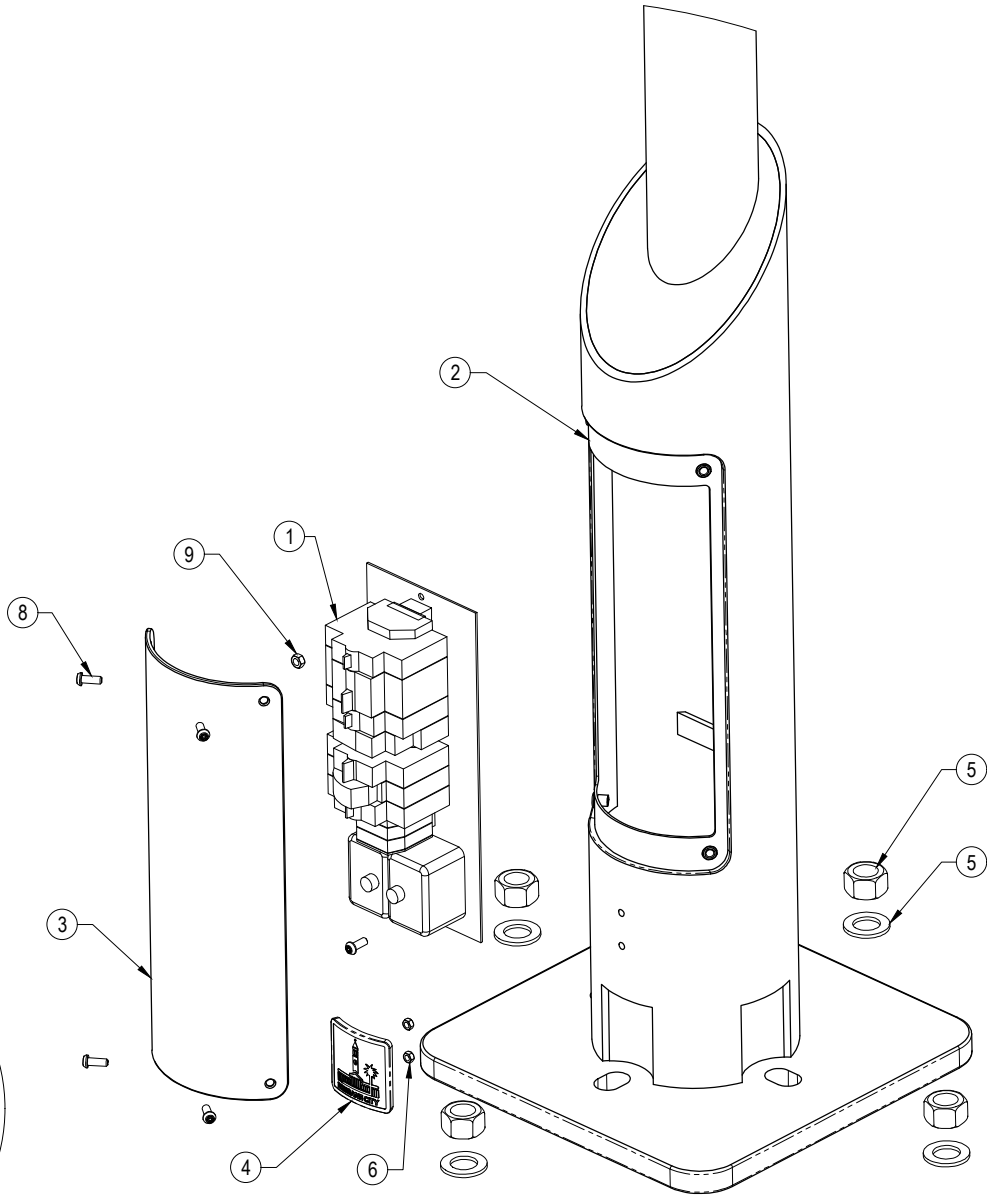
- ALL TOLERANCES $\pm 1.5\text{mm}$ UNLESS OTHERWISE SPECIFIED.
- DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- MATERIAL: SEE COMPONENT DRAWING
- COLOUR:
LED LUMINAIRE - RAL 7010 TARPULIN GREY OR APPROVED EQUIVALENT.
LIGHT POLE - DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
- FINISH: HOT DIP GALVANISED AND POWDER COATED

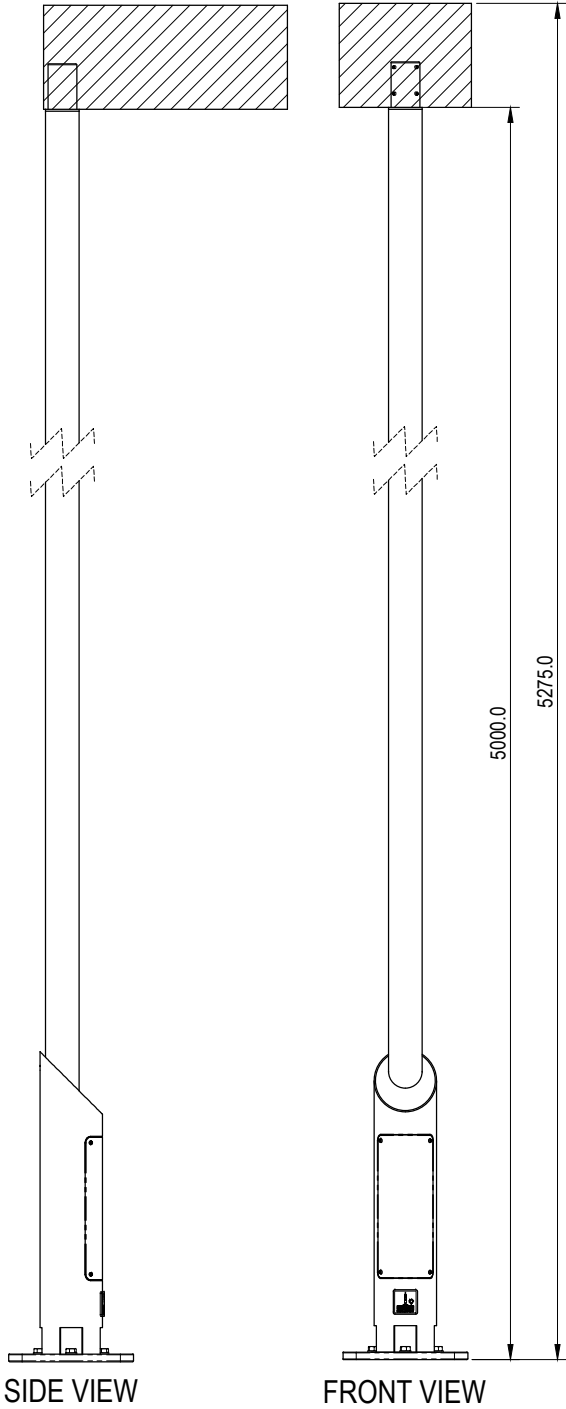
DESIGN NOTES:

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 - COMPONENTS CERTIFIED: MAIN STRUCTURE
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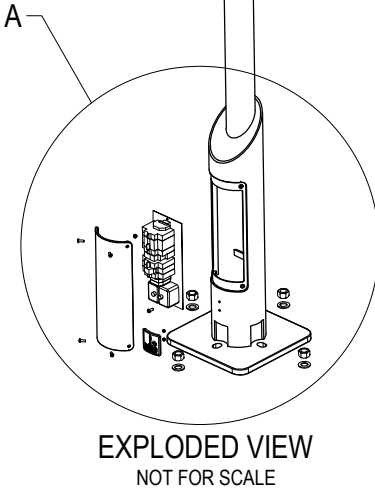
DETAIL A
NOT TO SCALE

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).



SIDE VIEW

FRONT VIEW



EXPLODED VIEW
NOT FOR SCALE



BRISBANE CITY COUNCIL STANDARD DRAWING

5 METRE PEDESTRIAN LIGHT POLE
MAIN ASSEMBLY
SHEET 1 OF 7

PUBLISH DATE

March 2021

SCALE

NOT TO SCALE

DRAWING NUMBER

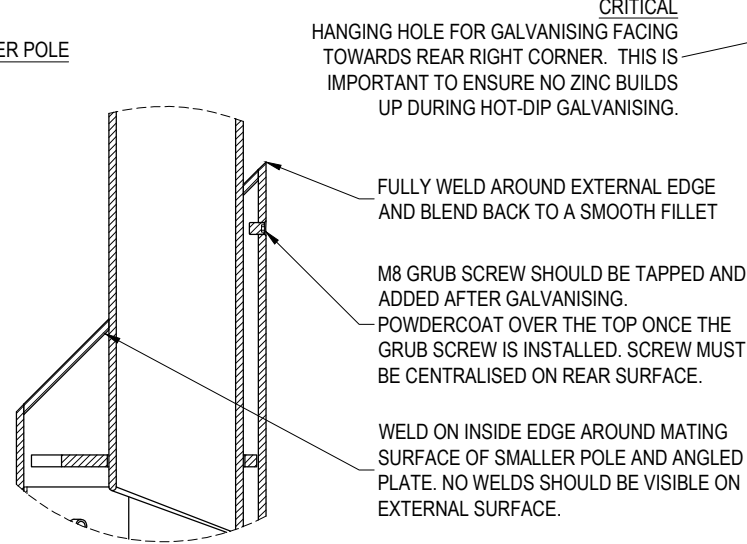
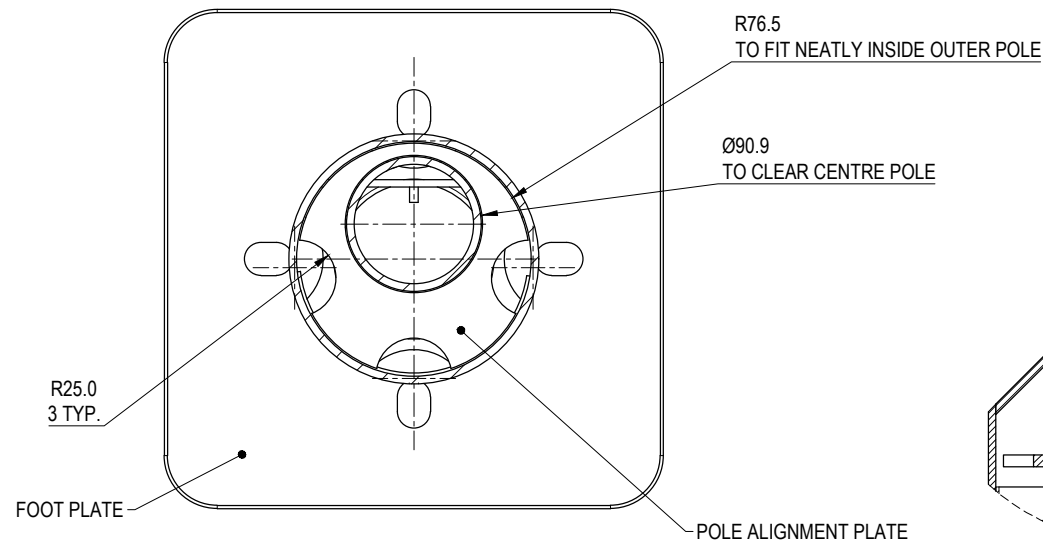
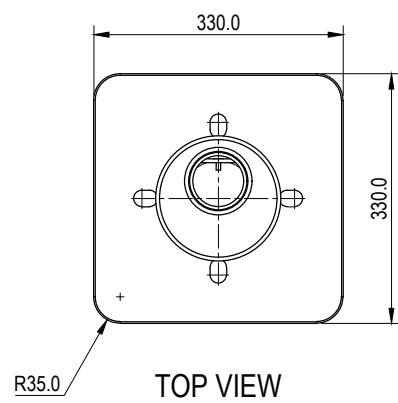
BSD-11005

ORIGINAL SIZE

A3

REVISION

A



STANDARDS

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- AS4680 - HOT DIP GALVANISING.
- AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
- AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES

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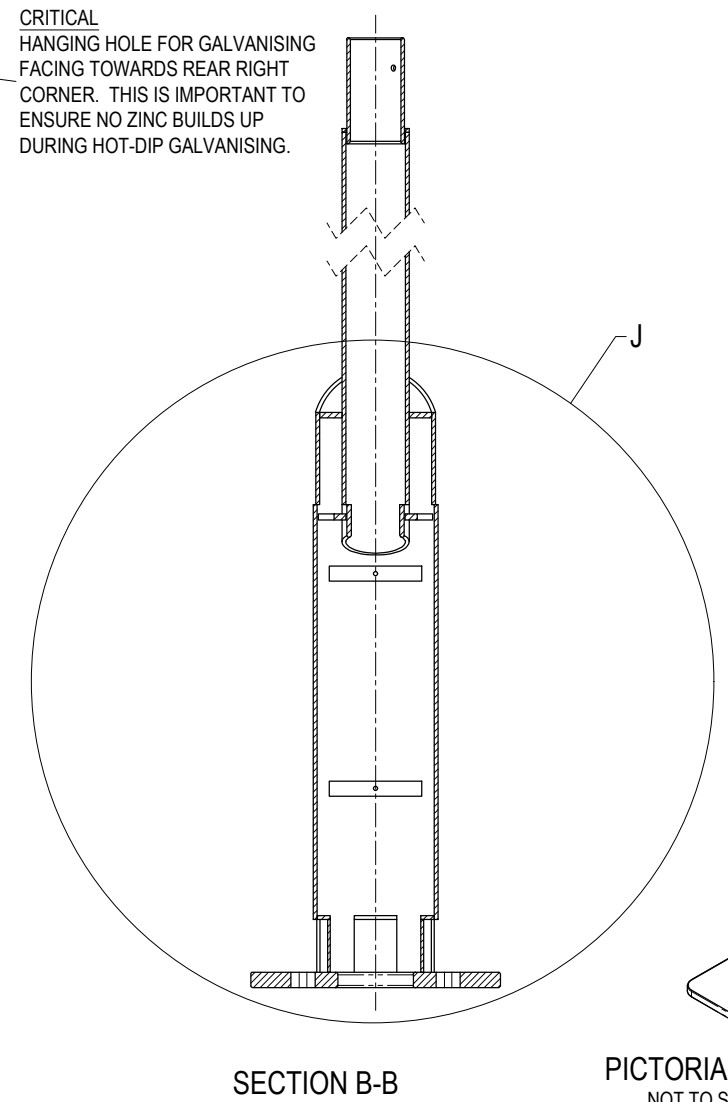
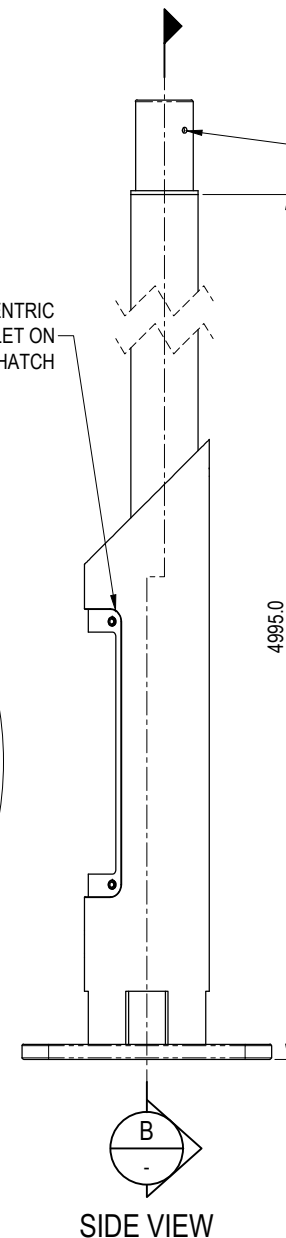
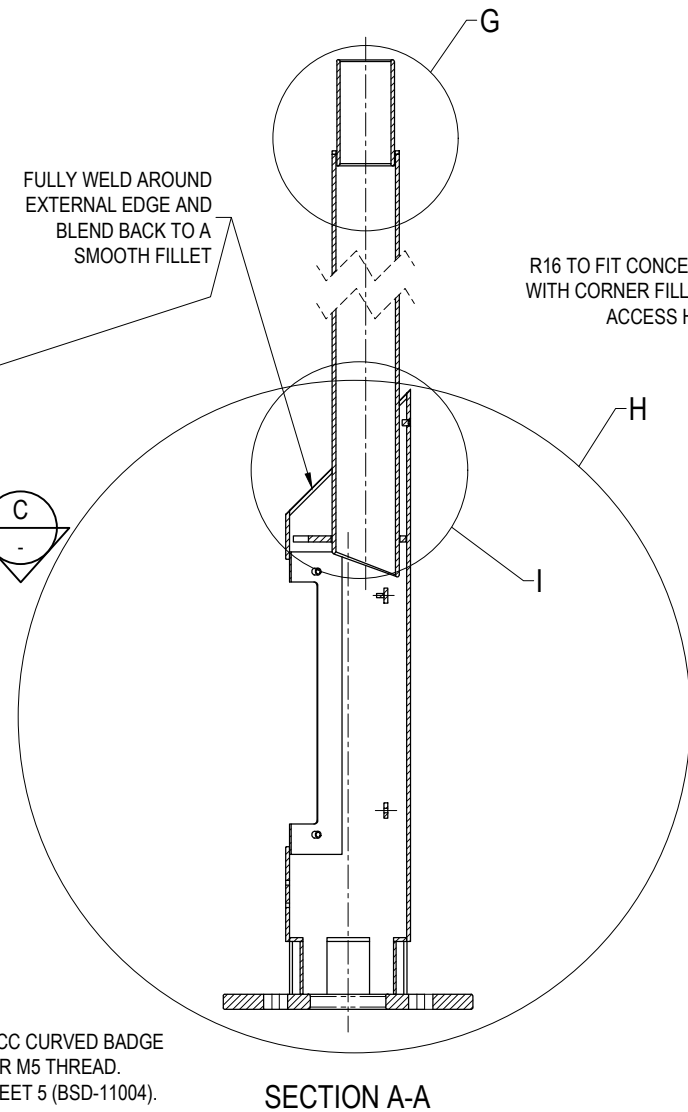
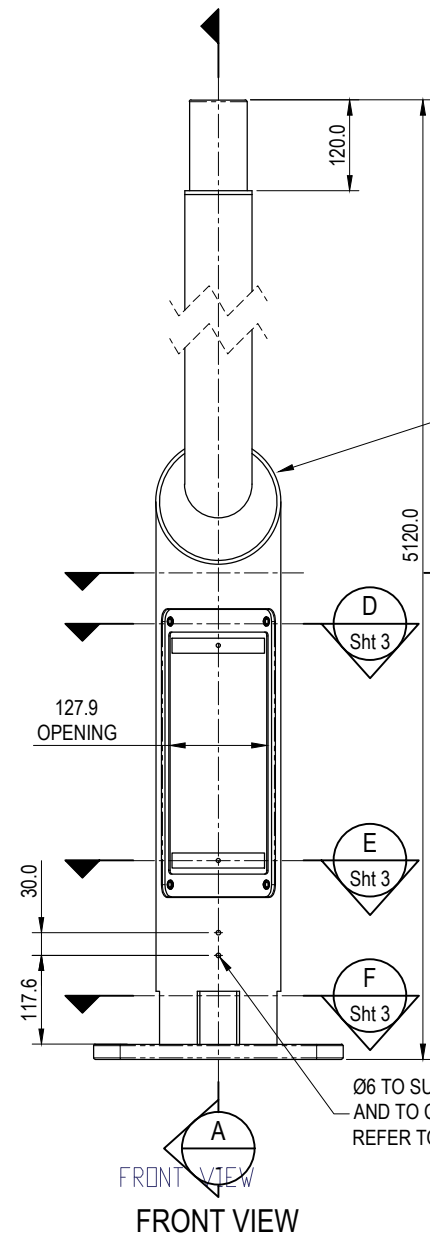
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MATERIALS

- MATERIAL: MILD STEEL G350
- COLOUR: DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
- FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

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 - LOCATION AND WIND: CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
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PICTORIAL VIEW
NOT TO SCALE

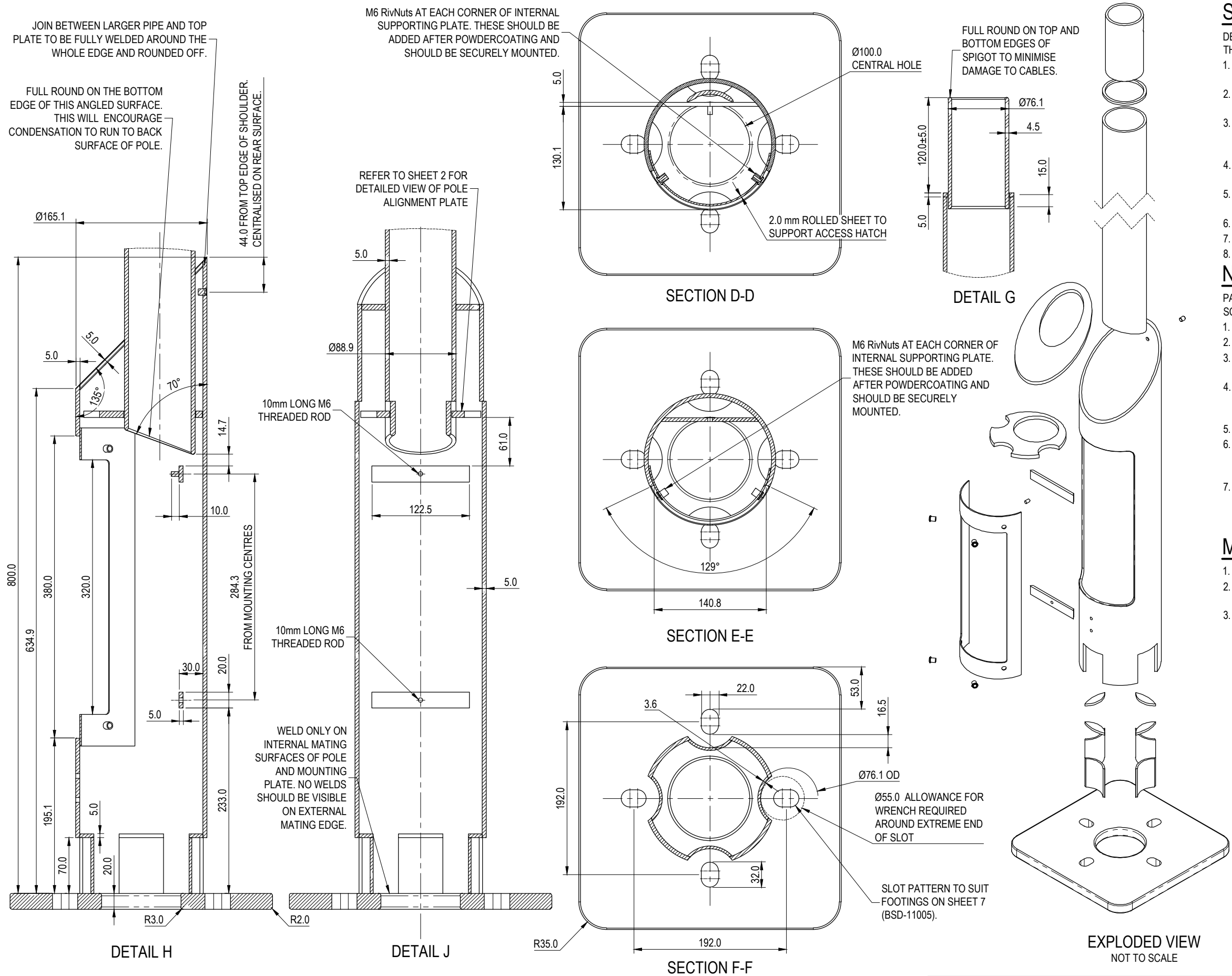
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

5 METRE PEDESTRIAN LIGHT POLE
MAIN BODY
SHEET 2 OF 7

PUBLISH DATE	March 2021
SCALE	1:10
DRAWING NUMBER	BSD-11005
ORIGINAL SIZE	A3
REVISION	A



STANDARDS

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- AS4680 - HOT DIP GALVANISING.
- AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
- AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

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MATERIALS

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- COLOUR: DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
- FINISH: HOT DIP GALVANISED AND POWDER COATED

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BRISBANE CITY COUNCIL STANDARD DRAWING

5 METRE PEDESTRIAN LIGHT POLE
MAIN BODY DETAILS
SHEET 3 OF 7

PUBLISH DATE

March 2021

SCALE

1:10

DRAWING NUMBER

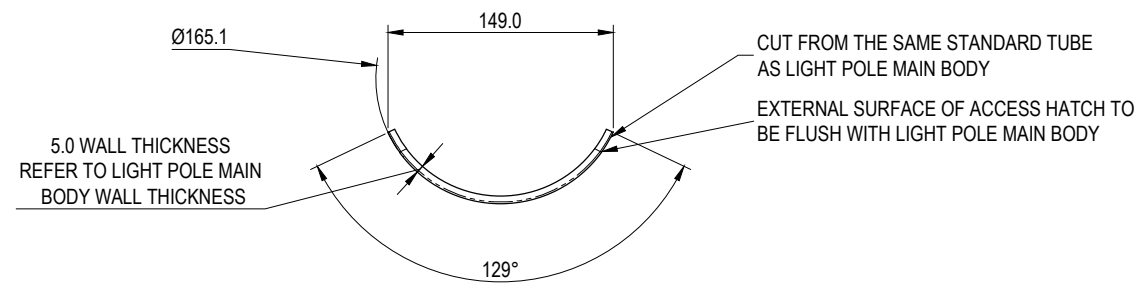
BSD-11005

ORIGINAL SIZE

A3

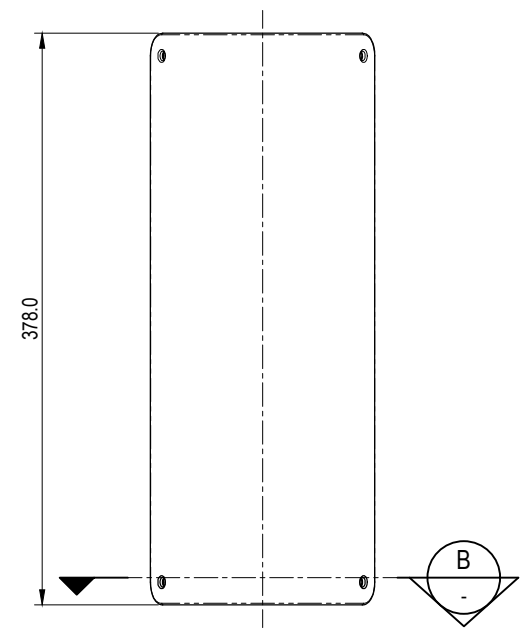
REVISION

A

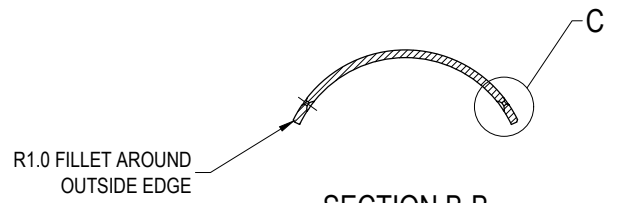


AUXILIARY VIEW 'A'

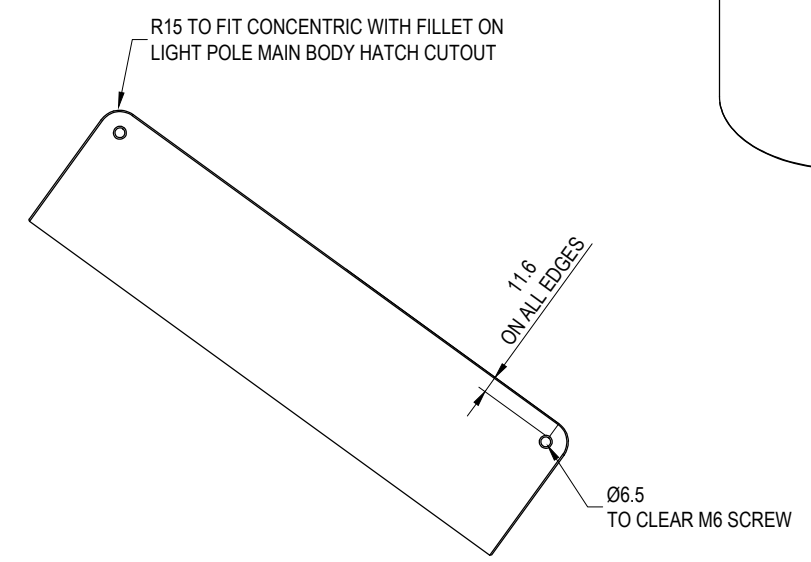
TOP VIEW



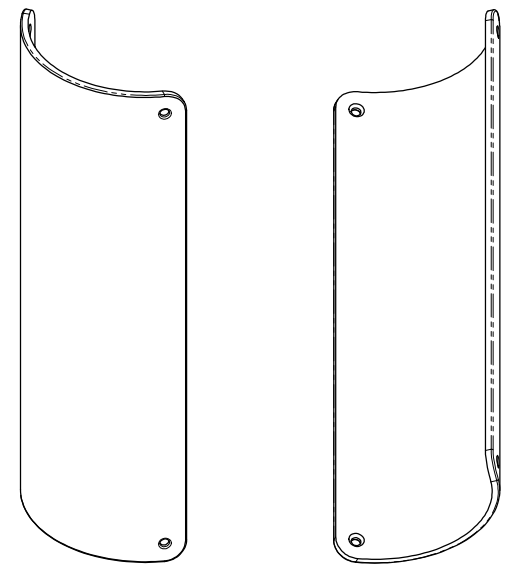
FRONT VIEW



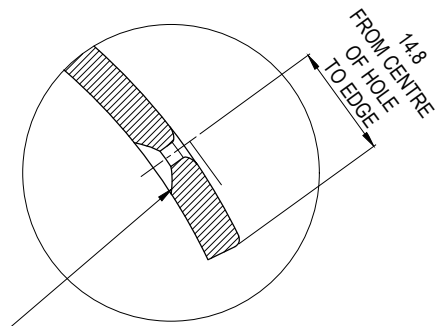
SECTION B-B



AUXILIARY VIEW 'A'



PICTORIAL VIEWS
NOT TO SCALE



CRITICAL
HOLE MAY REQUIRE SMALL 1-2mm COUNTERSINK ON REAR SURFACE TO CLEAR THE RAISED FACE OF THE RivNuts ON THE MOUNTING SURFACE

DETAIL C
SCALE 1:1

STANDARDS

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7. AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
8. AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

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3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
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7. ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

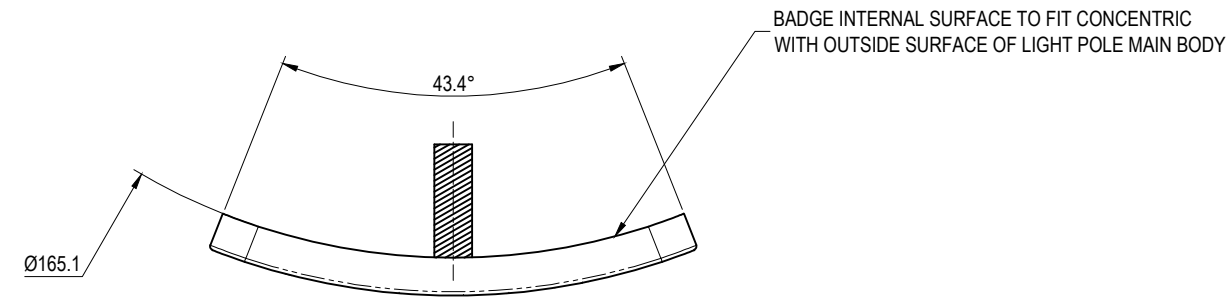
1. MATERIAL: MILD STEEL G350
2. COLOUR: DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
3. FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

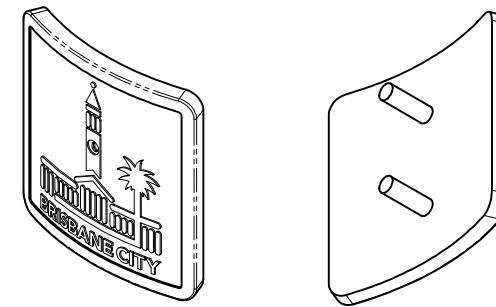
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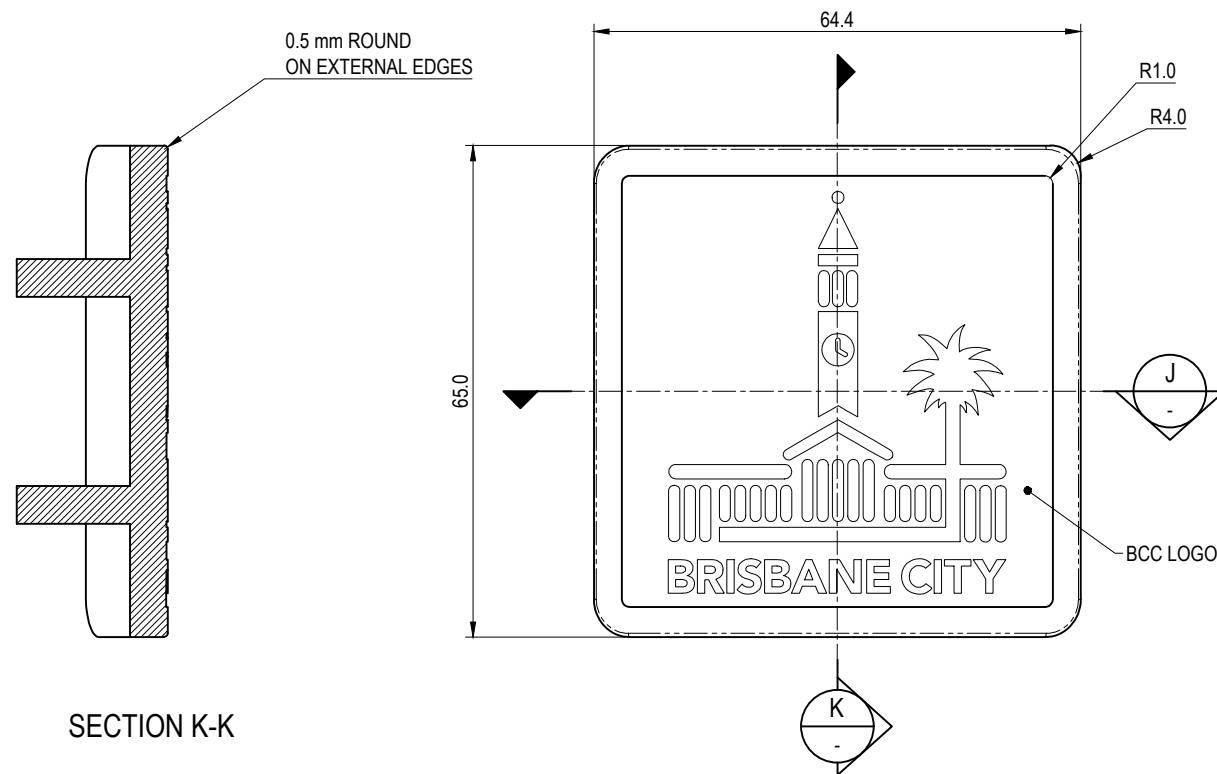
	BRISBANE CITY COUNCIL STANDARD DRAWING		PUBLISH DATE March 2021	
	5 METRE PEDESTRIAN LIGHT POLE ACCESS HATCH SHEET 4 OF 7		SCALE 1:10	
			DRAWING NUMBER BSD-11005	
			ORIGINAL SIZE A3	REVISION A



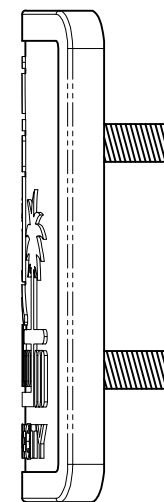
TOP VIEW



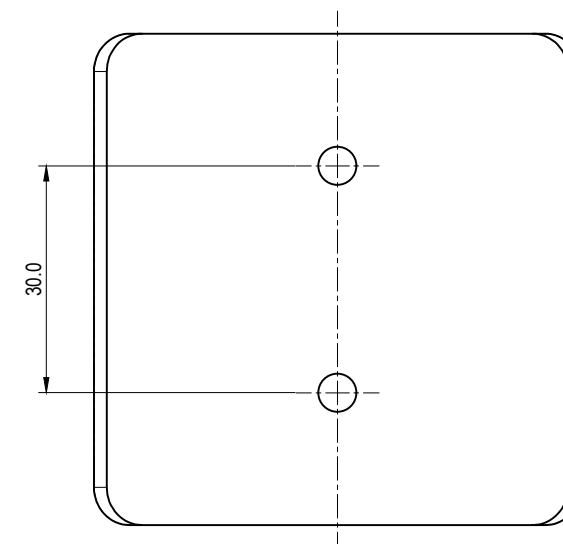
PICTORIAL VIEWS
NOT TO SCALE



FRONT VIEW

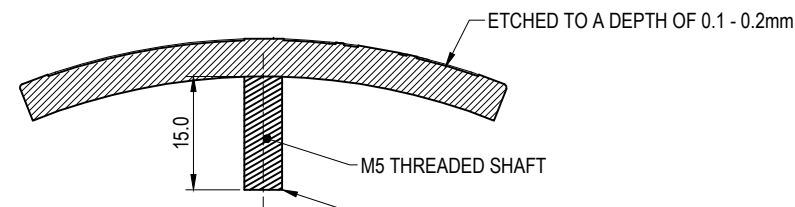


SIDE VIEW



REAR VIEW

SECTION K-K



SECTION J-J

BADGE FASTENED ONTO MAIN
BODY WITH M5 SS HEX NUT

STANDARDS

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7. AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
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NOTES:

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3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
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MATERIALS

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

DESIGN NOTES:

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BRISBANE CITY COUNCIL STANDARD DRAWING

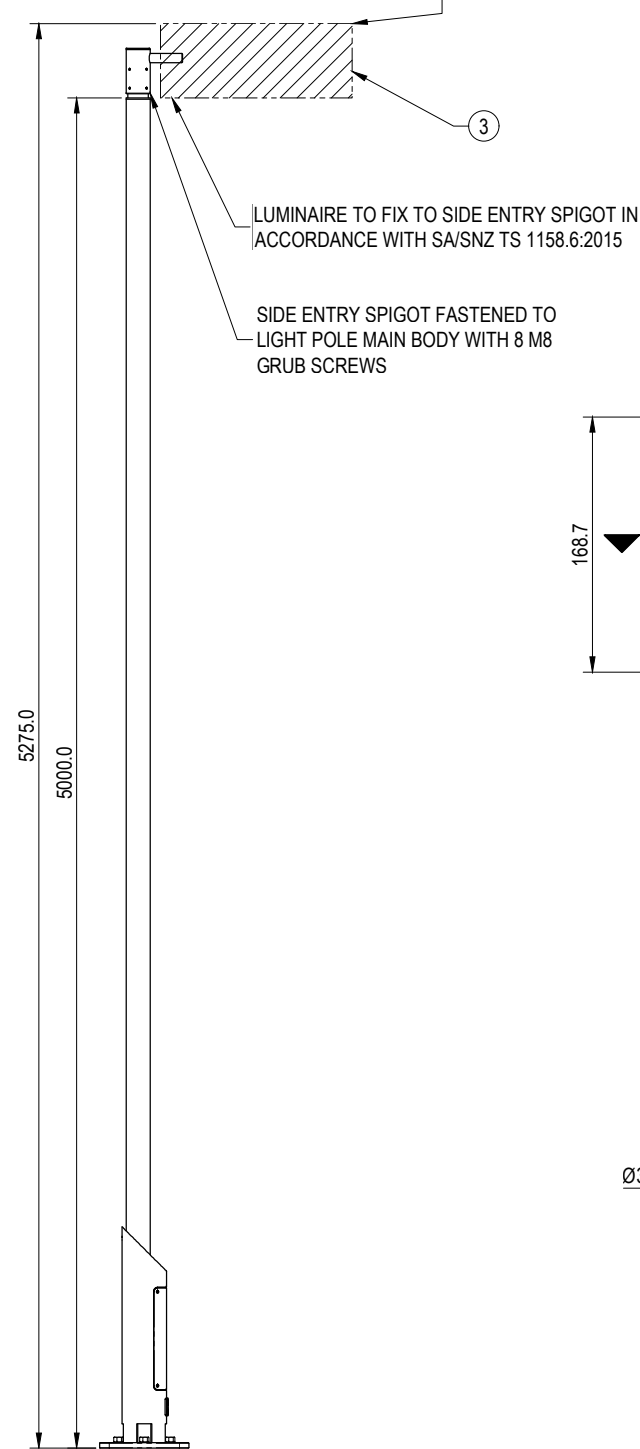
5 METRE PEDESTRIAN LIGHT POLE
CURVED LOGO BADGE
SHEET 5 OF 7

PUBLISH DATE	March 2021
SCALE	1:1
DRAWING NUMBER	BSD-11005
ORIGINAL SIZE	A3
REVISION	A

SIDE MOUNT LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL)
MAXIMUM WEIGHT: 6.9kg
MAXIMUM WIND CATCHING AREA: 0.1m²

TOTAL MAXIMUM HEIGHT OF PEDESTRIAN LIGHT POLE AND LUMINAIRE TO NOT EXCEED 5275mm.

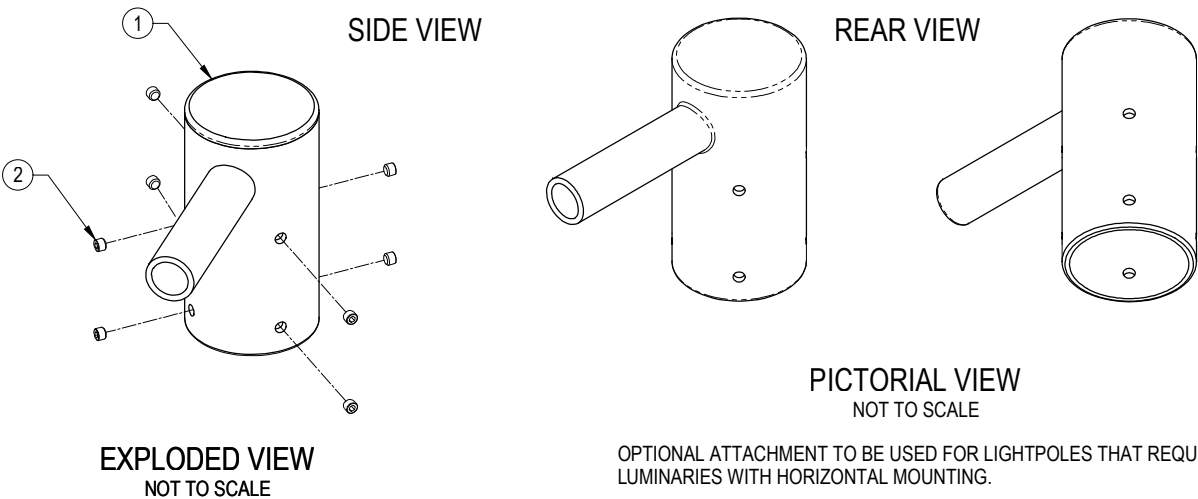
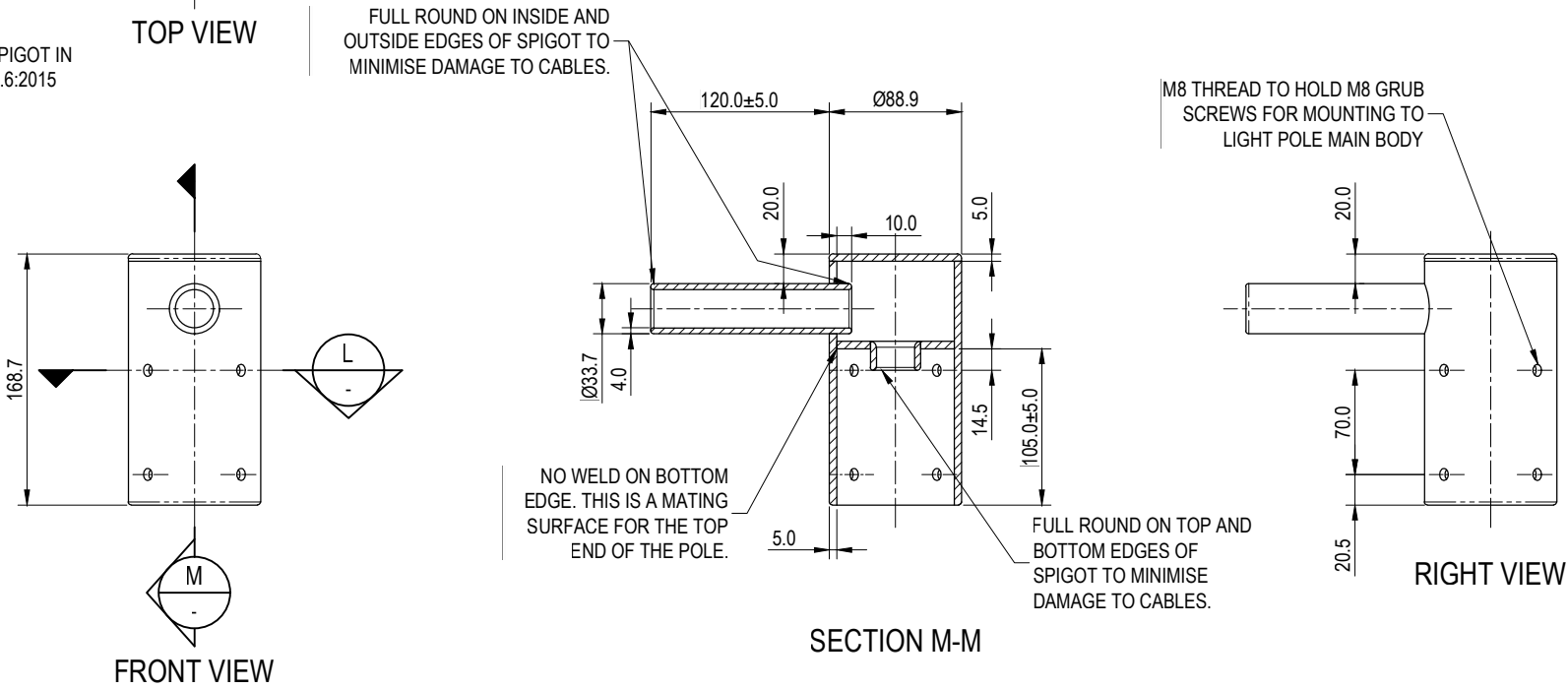
FOR FOOTING SPECIFICATIONS REFER TO SHEET 7 (BSD-11005).



SIDE ENTRY LUMINAIRE
GENERAL ASSEMBLY
SCALE 1:20

EQUIPMENT LIST

ITEM NO.	DESCRIPTION	QTY.
1	SIDE ENTRY SPIGOT (ONLY TO BE USED WHERE DIRECTED OR ACCEPTED BY BRISBANE CITY COUNCIL)	1
2	M8 x 6mm 316 STAINLESS STEEL FLAT POINT GRUB SCREW (SIDE MOUNT LUMINAIRE ONLY)	8
3	SIDE MOUNT LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL) REFER TO BRISBANE CITY COUNCIL FOR APPROVED LUMINAIRE DETAILS	1



STANDARDS

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

- AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
- AS1158.3.1 - ROAD LIGHTING , PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- AS4680 - HOT DIP GALVANISING.
- AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
- AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

- ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- MATERIAL: MILD STEEL G350
- COLOUR:
LED LUMINAIRE - RAL 7010 TARPULIN GREY OR APPROVED EQUIVALENT.
LIGHT POLE AND SPIGOT - DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
- FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - LOCATION AND WIND: CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
 - COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

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).



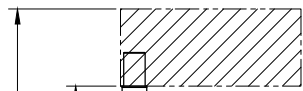
BRISBANE CITY COUNCIL STANDARD DRAWING

5 METRE PEDESTRIAN LIGHT POLE
ALTERNATIVE SIDE ENTRY
SHEET 6 OF 7

PUBLISH DATE	March 2021
SCALE	1:5
DRAWING NUMBER	BSD-11005
ORIGINAL SIZE	A3
REVISION	A

LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL)
MAXIMUM WEIGHT: 8.4kg
MAXIMUM WIND CATCHING AREA: 0.13m²
MAXIMUM HEIGHT: 275mm

TOTAL MAXIMUM HEIGHT OF PEDESTRIAN LIGHT POLE AND LUMINAIRE TO NOT EXCEED 5275mm.



SEAL EXTERNAL BASE OF POLES WITH A NON-SHRINK GROUT UNDER BASE WITH MORTAR MIX OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN. ENSURE THE GROUT IS FLUSH WITH THE UNDERSIDE OF THE BASE PLATE AND TAPERED AWAY FROM THE POLE AT APPROXIMATELY 45°. A MINIMUM 12mm WEEP HOLE IS RECOMMENDED TO ALLOW FOR DRAINAGE OF CONDENSATION FROM INSIDE THE POLE.

REFER TO BSD-5202, 5206, 5207 AND 5210 FOR PAVEMENT DETAILS. REFER TO PROJECT DRAWINGS FOR FINISHES

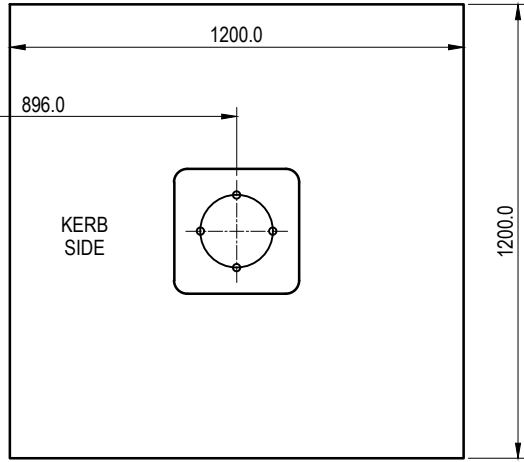
5 N16 UBARS TOP AND BOTTOM EACH WAY.

CONCRETE PEDESTAL AS REQUIRED.

KERB AND CHANNEL

DAMP PROOF MEMBRANE.

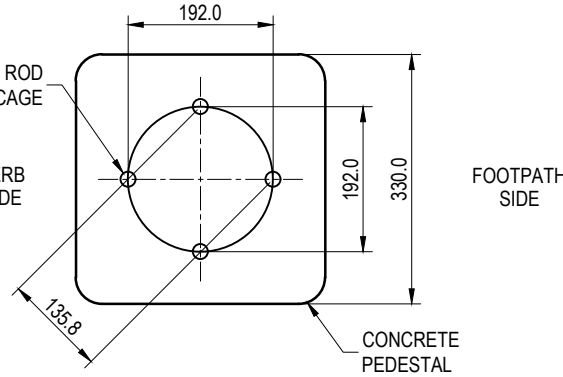
GEOTECHNICAL ENGINEER TO CONFIRM THAT GROUND HAS MINIMUM 100kPa ALLOWABLE BEARING CAPACITY.



RAG BOLT, PEDESTAL AND FOOTING
TOP VIEW
SCALE 1:20

800.0 FROM POLE FACE TO NOMINAL FACE OF KERB (NFK). BSD-2001 PROVIDES GUIDANCE ON THE NFK FOR DIFFERENT KERB PROFILES (TYPE 'E' KERB AND CHANNEL SHOWN)

FOOTPATH SIDE



RAG BOLT AND PEDESTAL
TOP VIEW
NOT TO SCALE

3 METRE PEDESTRIAN LIGHT POLE

M16 316 STAINLESS STEEL NUT AND WASHER

WHERE MODIFICATIONS (CUTTING) ARE REQUIRED TO THE EXISTING RAG BOLT ASSEMBLY DUE TO FINISH HEIGHTS OF NEW POLE - REFER TO DEPARTMENT OF TRANSPORT AND MAIN ROADS SPECIFICATION (MRTS78 - FABRICATION OF STRUCTURAL STEELWORK - INCLUDING BUT NOT LIMITED TO 11.3.3 - SUBSEQUENT REPAIRS TO COATINGS).

RAG BOLT CAGE TO SUIT BASE PLATE DRAWING ON SHEET 3.

FOOTPATH SIDE
SIDE
SIDE
SIDE

ELECTRICAL CONDUIT
40mm DIAMETER.

RIGHT VIEW
SCALE 1:27

FOOTING DETAIL
NOT TO SCALE

1200.0 SQUARE FOOTING

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

5 METRE PEDESTRIAN LIGHT POLE
INSTALLATION ON NEW FOOTING
SHEET 7 OF 7

STANDARDS

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

- AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
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- AS1158.3.1 - ROAD LIGHTING, PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
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- AS4680 - HOT DIP GALVANISING.
- AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.
- AS/NZS3000 - ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

- ALL TOLERANCES $\pm 1.5\text{mm}$ UNLESS OTHERWISE SPECIFIED.
- DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- LIGHTING DESIGN IS TO BE CERTIFIED BY AN ELECTRICAL RPEQ OR MIES AND ELECTRICAL DESIGN IS TO BE CERTIFIED BY AN ELECTRICAL RPEQ.
- THE CONTRACTOR IS TO ENSURE THAT ALL SERVICE PROVIDER APPROVALS ARE IN PLACE PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL ELECTRICAL WORK IS TO BE UNDERTAKEN BY A QUEENSLAND LICENSED ELECTRICAL CONTRACTOR TO AUSTRALIAN STANDARDS AND COUNCIL REQUIREMENTS.
- CONCRETE TO BE N25 AND COVER TO ALL REINFORCING STEEL TO BE 50mm.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

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

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
 - LOCATION AND WIND: CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
 - COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

PUBLISH DATE

March 2021

SCALE

1:10

DRAWING NUMBER

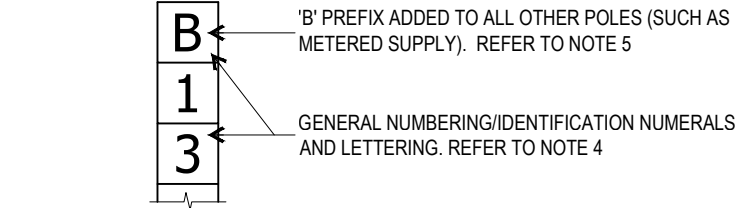
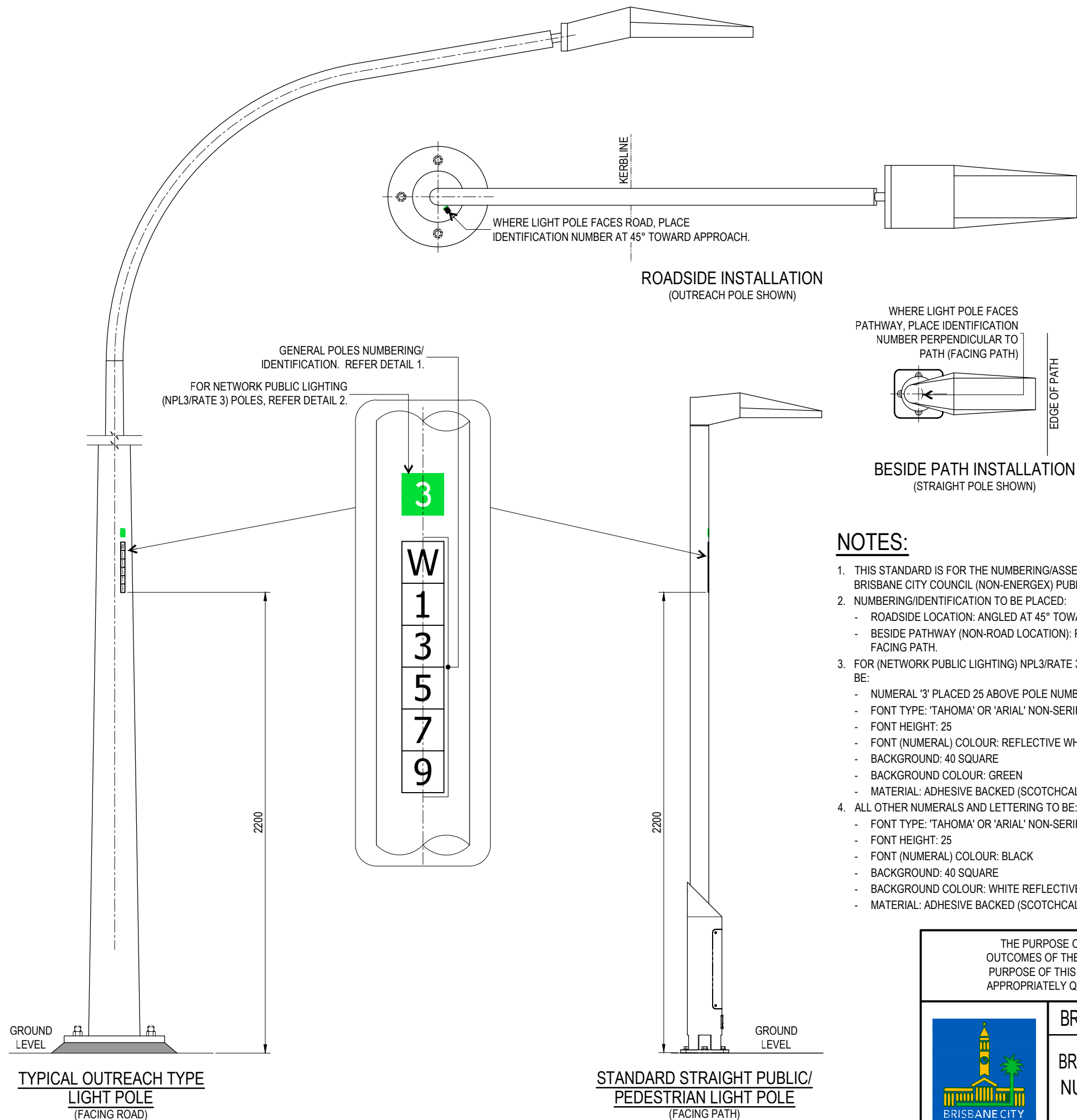
BSD-11005

ORIGINAL SIZE

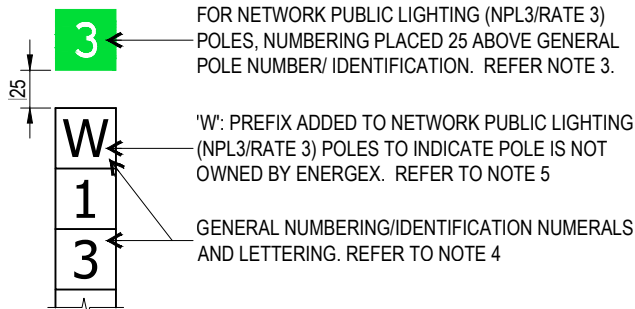
A3

REVISION

A



DETAIL 1
GENERAL POLE
NUMBERING/IDENTIFICATION
NOT TO SCALE



DETAIL 2
NETWORK PUBLIC LIGHTING (NPL3/RATE 3)
POLE NUMBERING/IDENTIFICATION
NOT TO SCALE

NOTES:

- THIS STANDARD IS FOR THE NUMBERING/ASSET IDENTIFICATION OF BRISBANE CITY COUNCIL (NON-ENERGEX) PUBLIC LIGHTING POLES.
- NUMBERING/IDENTIFICATION TO BE PLACED:
 - ROADSIDE LOCATION: ANGLED AT 45° TOWARDS APPROACH;
 - BESIDE PATHWAY (NON-ROAD LOCATION): PERPENDICULAR FACING PATH.
- FOR (NETWORK PUBLIC LIGHTING) NPL3/RATE 3 POLES, IDENTIFIER TO BE:
 - NUMERAL '3' PLACED 25 ABOVE POLE NUMBER/IDENTIFICATION;
 - FONT TYPE: 'TAHOMA' OR 'ARIAL' NON-SERIF TYPE
 - FONT HEIGHT: 25
 - FONT (NUMERAL) COLOUR: REFLECTIVE WHITE
 - BACKGROUND: 40 SQUARE
 - BACKGROUND COLOUR: GREEN
 - MATERIAL: ADHESIVE BACKED (SCOTCHCAL 220 OR EQUIVALENT).
- ALL OTHER NUMERALS AND LETTERING TO BE:
 - FONT TYPE: 'TAHOMA' OR 'ARIAL' NON-SERIF TYPE
 - FONT HEIGHT: 25
 - FONT (NUMERAL) COLOUR: BLACK
 - BACKGROUND: 40 SQUARE
 - BACKGROUND COLOUR: WHITE REFLECTIVE
 - MATERIAL: ADHESIVE BACKED (SCOTCHCAL 220 OR EQUIVALENT).
- SUPPLY TYPE IDENTIFICATION:
 - 'W' PREFIX: ADDED TO NETWORK PUBLIC LIGHTING (SUCH AS NPL2/RATE 2, NPL3/RATE 3) POLES TO INDICATE POLE IS NOT OWNED BY ENERGEX.
 - 'B' PREFIX: ADDED TO ALL OTHER POLES (SUCH AS METERED SUPPLY) TO INDICATE THE POLE IS OWNED BY BRISBANE CITY COUNCIL.
- SUPPLY OF POLE NUMBER:
 - 'W' POLE NUMBERS ARE TO BE OBTAINED FROM ENERGEX OR ENERGEX ACCREDITED DESIGNERS.
 - 'B' POLE NUMBERS CAN BE OBTAINED FROM COUNCIL'S CITY LIGHTING UNIT, EMAIL: CS-LIGHTING@BRISBANE.QLD.GOV.AU
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

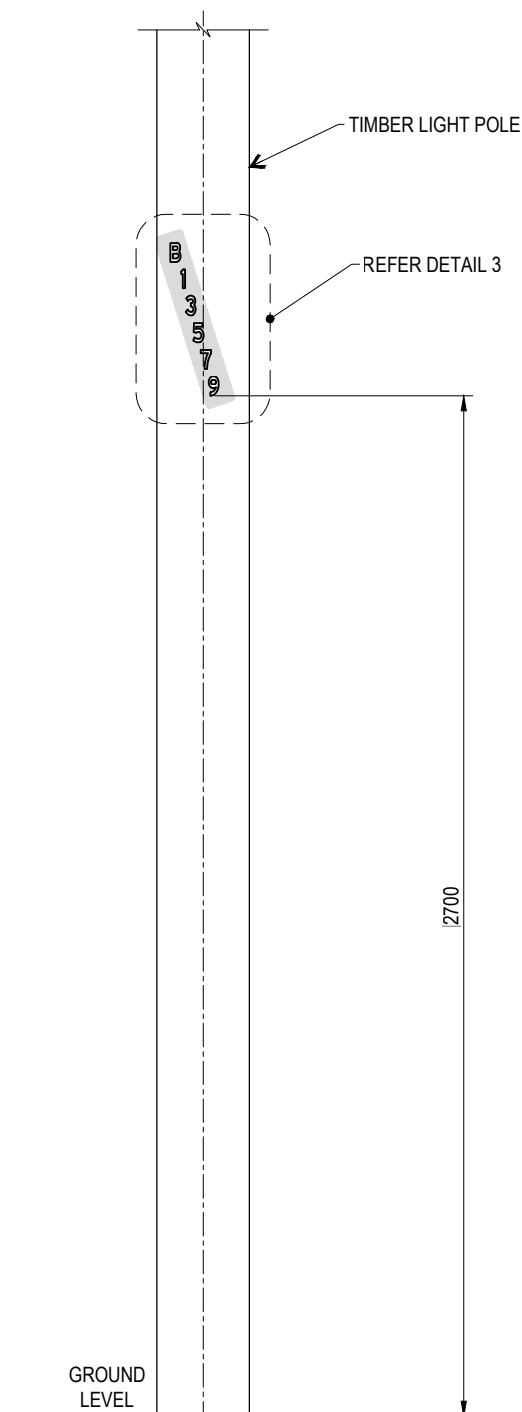
THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED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



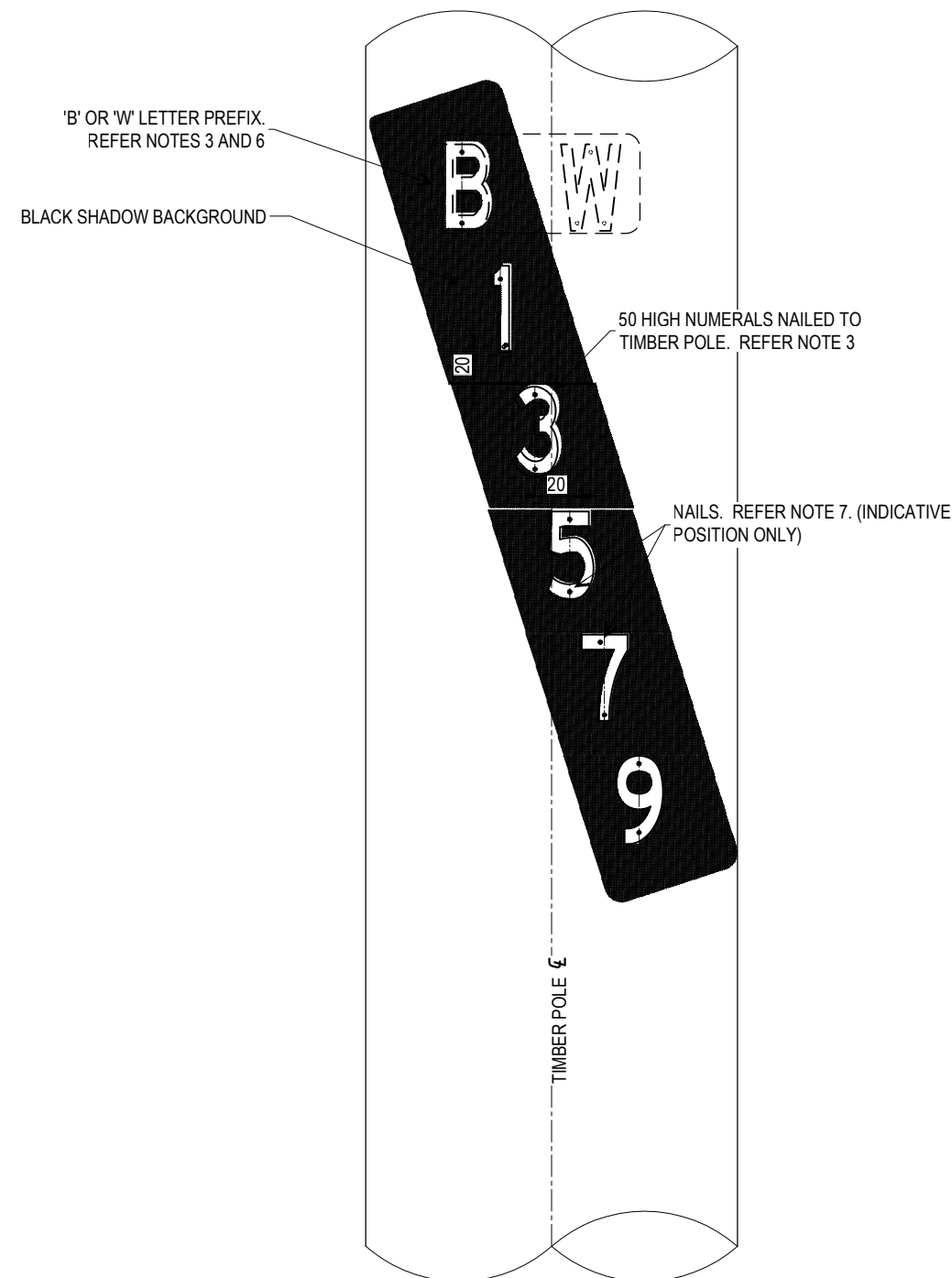
BRISBANE CITY COUNCIL STANDARD DRAWING

BRISBANE CITY COUNCIL PUBLIC LIGHTING POLES
NUMBERING AND IDENTIFICATION - METAL
POLES - DETAILS - SHEET 1 OF 2

PUBLISH DATE	JUN 2023
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-11006
ORIGINAL SIZE	A3
REVISION	A



TIMBER LIGHT POLE
IDENTIFICATION NUMBERS FACING
ROAD OR PATH



DETAIL 3
IDENTIFICATION NUMBER LAYOUT

NOTES:

1. THIS STANDARD IS FOR THE NUMBERING/ASSET IDENTIFICATION OF BRISBANE CITY COUNCIL (NON-ENERGEX) TIMBER PUBLIC LIGHTING POLES.
2. NUMBERING/IDENTIFICATION TO BE PLACED:
 - ROADSIDE AND PATHWAY LOCATION: PERPENDICULAR FACING ROAD OR PATH.
3. NUMERALS AND LETTERING TO BE:
 - FONT HEIGHT: 50
 - WIDTH: 35
 - FONT (NUMERAL) COLOUR: NATURAL (SILVER)
 - MATERIAL: 24 GAUGE ALUMINUM
 - NUMBER OF HOLES: 2
5. PAINT AREA BEHIND IDENTIFICATION NUMBER BLACK.
6. SUPPLY TYPE IDENTIFICATION:
 - 'W' PREFIX: ADDED TO NETWORK PUBLIC LIGHTING (SUCH AS NPL2/RATE 2, NPL3/RATE 3) POLES TO INDICATE POLE IS NOT OWNED BY ENERGEX.
 - 'B' PREFIX: ADDED TO ALL OTHER POLES (SUCH AS METERED SUPPLY) TO INDICATE THE POLE IS OWNED BY BRISBANE CITY COUNCIL.
6. SUPPLY OF POLE NUMBER:
 - 'W' POLE NUMBERS ARE TO BE OBTAINED FROM ENERGEX OR ENERGEX ACCREDITED DESIGNERS.
 - 'B' POLE NUMBERS CAN BE OBTAINED FROM COUNCIL'S CITY LIGHTING UNIT, EMAIL: CS-LIGHTING@BRISBANE.QLD.GOV.AU
7. NAILS TO BE 12 GAUGE GALVANISED CLOUTS.
8. 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

**BRISBANE CITY COUNCIL PUBLIC LIGHTING POLES
NUMBERING AND IDENTIFICATION - TIMBER
POLES - DETAILS - SHEET 2 OF 2**

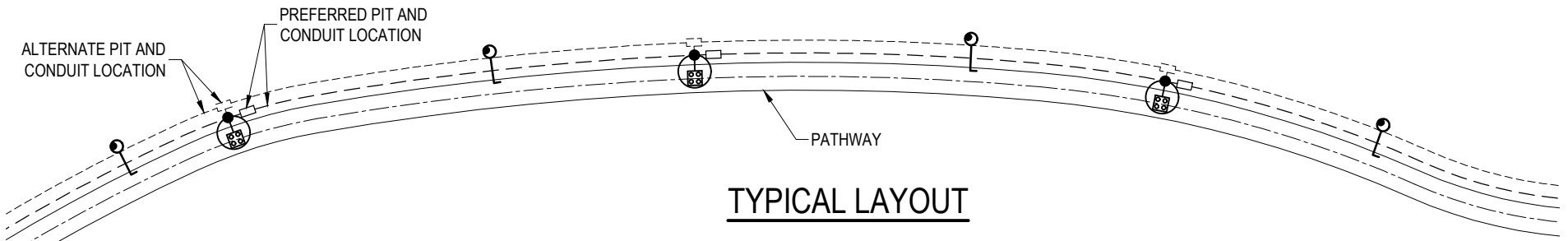
PUBLISH DATE	JUN 2023
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-11006
ORIGINAL SIZE	A3
REVISION	A

TABLE 1 - POLE OFFSETS

PATH WIDTH	POLE OFFSET
≤2000	2500 FROM PATH CENTRELINE
>2000, ≤2500	2250 FROM PATH CENTRELINE
>2500, ≤3000	2000 FROM PATH CENTRELINE
>3000	MIN 500 FROM EDGE OF PATH

TYPICAL LAYOUT LEGEND:

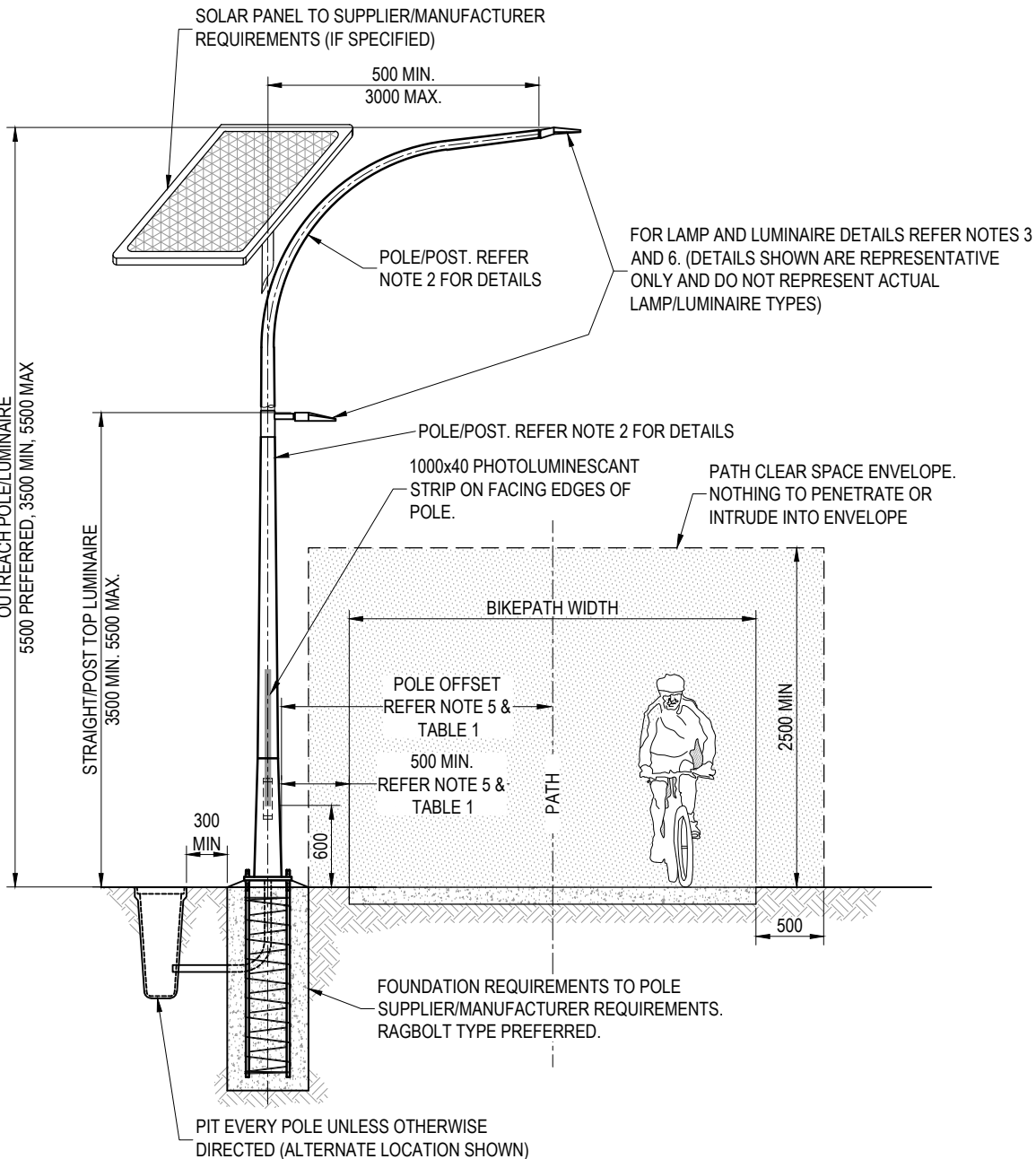
- PROPOSED PIT
- PROPOSED LIGHT (LED SHOWN)
- LV POLE OR SL POLE
- PROPOSED UNDERGROUND CONDUIT
- PROPOSED UNDERGROUND CABLE
- CONDUIT ARRANGEMENT



TYPICAL LAYOUT

NOTES:

- POWER SUPPLY: POWER SUPPLY TO BE EITHER MAINS OR SOLAR. WHERE MAINS POWERED, UNMETERED NETWORK PUBLIC LIGHTING (NPL) 3 TARIFF IS PREFERRED. HOWEVER, IF POWER REQUIRED FOR OTHER USES (e.g. PARK LIGHTING, BBQ), SUPPLY MUST BE METERED. WHERE SOLAR POWER SUPPLY USED, SUPPLY TO HAVE SUFFICIENT BATTERY STORAGE TO ENSURE LIGHTING OPERATES AT SPECIFIED LEVEL FOR PRESCRIBED HOURS OF OPERATION (FIT FOR PURPOSE).
- POLE DETAILS: OUTREACH STYLE: HEIGHT - 5500 PREFERRED, 3500 MINIMUM, 5500 MAXIMUM
OUTREACH - 500 MINIMUM, 3000 MAXIMUM
POST/STRAIGHT STYLE: HEIGHT - 3200 MINIMUM, 5500 MAXIMUM
POLE TO MINIMUM HOT DIPPED GALVANISED STEEL, GALVANISING TO AS/NZS4680.
POLES TO BE POWDERCOATED TO PREFERRED COLOUR BCC BLACK (AS2700 EQUIVALENT N61 BLACK) OR TO MATCH EXISTING INFRASTRUCTURE.
ALTERNATE COLOUR IF DIRECTED TO BE BCC GREEN 1 (AS 2700 EQUIV. G12 HOLLY). COLOURS AS PER BRISBANE CITY COUNCIL CORPORATE COLOUR PALETTE - REFER BSD-1003.
- LAMP DETAIL: PREFERRED TYPE/WATTAGE (UNLESS OTHERWISE APPROVED BY COUNCIL)
 - LED (LIGHT EMITTING DIODE) <40W.ALTERNATIVE TYPE/WATTAGE (REQUIRES APPROVAL BY COUNCIL)
 - METAL HALIDE 35W-70W.
 - HIGH PRESSURE SODIUM 70W.
- POLE SPACING: TO COMPLY WITH SCHEDULE 6 PLANNING SCHEME POLICIES (PSP), INFRASTRUCTURE DESIGN PSP, CHAPTER 4 PATHWAY DESIGN
- POLE OFFSET: OUTSIDE THE ROAD CORRIDOR, SECTION 4.3.6 PATHWAY LIGHTING. CATEGORY WILL VARY DEPENDING ON INDIVIDUAL SITE REQUIREMENTS. REFER TABLE 1 FOR POLE OFFSETS FOR DIFFERENT WIDTH PATHS. OFFSETS VARY FOR <3000 WIDE PATHS TO ALLOW FOR FUTURE WIDENING OF PATH. WHERE PRACTICAL, INSTALL POLES ON SIDE OF PATH WHERE EXPANSION NOT LIKELY TO BE POSSIBLE. LIGHTING POLES TO BE OFFSET MINIMUM 500 FROM EDGE OF PATH (REGARDLESS OF PATH WIDTH).
- LUMINAIRE: TO COMPLY WITH UPWARD WASTE LIGHT AS PER AS/NZS1158.3.1 (TABLE 3.10). CONSIDERATION NEEDS TO BE GIVEN FOR SPILL LIGHT IN ENVIRONMENTALLY SENSITIVE AREAS.
- POST TOP IF DIRECTED OR IN SPECIAL PRECINCT AREA TO BE EARTHED BY WIRE
- MOUNT TYPE: RAGBOLT ASSEMBLY WITH STANDARD POLE BASEPLATE
- RETICULATION: PITS TO BE INSTALLED IN 'DAISY CHAIN' SEQUENCE AT EVERY POLE UNLESS DIRECTED OTHERWISE.
- SWITCHBOARD TO BE INSTALLED/MOUNTED EXTERNAL TO POLE OR WITHIN POLE BASE.
- CONDUIT TO MINIMUM 50mm.
- ALL ELECTRICAL COMPONENTS AND INSTALLATION TO COMPLY WITH AS/NZS3000.
- POLE NUMBER TO CLEARLY VISIBLE FROM PATH.
- PLANS TO SHOW FOLLOWING TABULATED INFORMATION:
 - STREET LIGHTING SCHEDULE
 - UNDERGROUND CIVIL WORKS SCHEDULE
 - STREET LIGHT CABLE SCHEDULE
 - CIRCUIT SCHEDULE
 - MAJOR MATERIAL ITEMS/MATERIAL SUMMARY LIST
 - COMPLIANCE DOCUMENTATION AS PER AS/NZS1158.3.1 APPENDIX 'C'.
- REFER TO THE INFRASTRUCTURE INSTALLATION AND CONSTRUCTION REQUIREMENTS MANUAL (IICRM) FOR DESIGN AND AS-CONSTRUCTED REQUIREMENTS.
- ALL DIMENSIONS IN MILLIMETRES (U.N.O.).



TYPICAL CROSS SECTION

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).

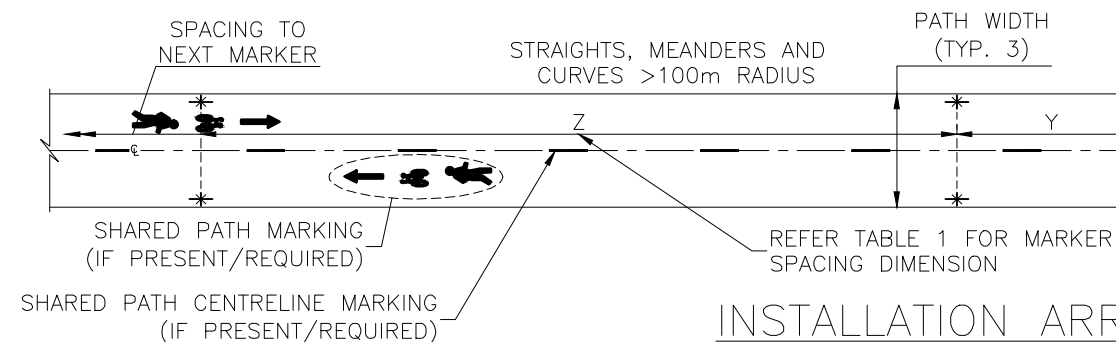
	BRISBANE CITY COUNCIL STANDARD DRAWING		PUBLISH DATE NAR 2021	
	TYPICAL REQUIREMENTS FOR LIGHTING OF OFF-ROAD SHARED & BICYCLE PATHS		SCALE NOT TO SCALE	
			DRAWING NUMBER BSD-11031	
			ORIGINAL SIZE A3	REVISION D

TABLE 1 – SOLAR MARKER SPACINGS

LOCATION	IDENTIFIER	SPACING*
HORIZONTAL CURVES		
ENTRANCE CONTROLS & CURVES <20R	X	4 NOM.
CURVES >20R & <100R (>30° CHANGE IN DIRECTION)	Y	6 NOM.
STRAIGHTS, MEANDERS & CURVES >100R	Z	25 MAX
HAZARDS	H	4

VERTICAL CURVES
GENERALLY TO HORIZONTAL CURVES, MAYBE REDUCED TO SUIT SIGHT LINES.

* SPACINGS ARE NOMINAL VALUES ONLY – FINAL SPACING TO BE DETERMINED TO SUIT INDIVIDUAL SITE CONDITIONS/SIGHT LINES. IT IS DESIRABLE TO HAVE A MINIMUM OF TWO (2) SUBSEQUENT MARKERS VISIBLE AT ALL TIMES.

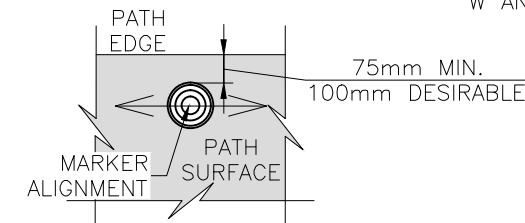


INSTALLATION ARRANGEMENT 1

GENERAL INSTALLATION
STRAIGHTS AND CURVES >20m RADIUS

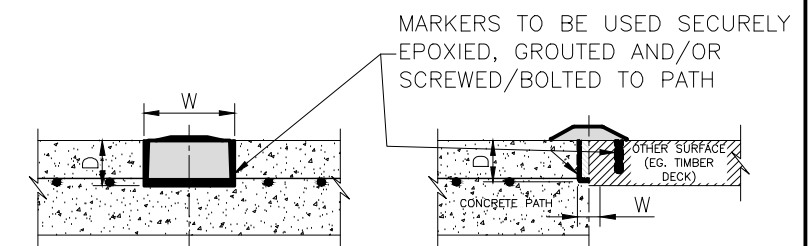
REFER TABLE 1 FOR
MARKER SPACING
DIMENSION

CURVE
20-100m RADIUS



OFFSET FROM PATH EDGE

CIRCULAR, FLUSH MOUNTED TYPE SHOWN AS EXAMPLE

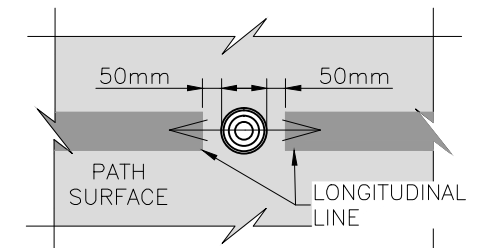


FLUSH MOUNTED
TYPE
(PREFERRED TYPE)

SURFACE MOUNTED
TYPE
(ALTERNATE TYPE)

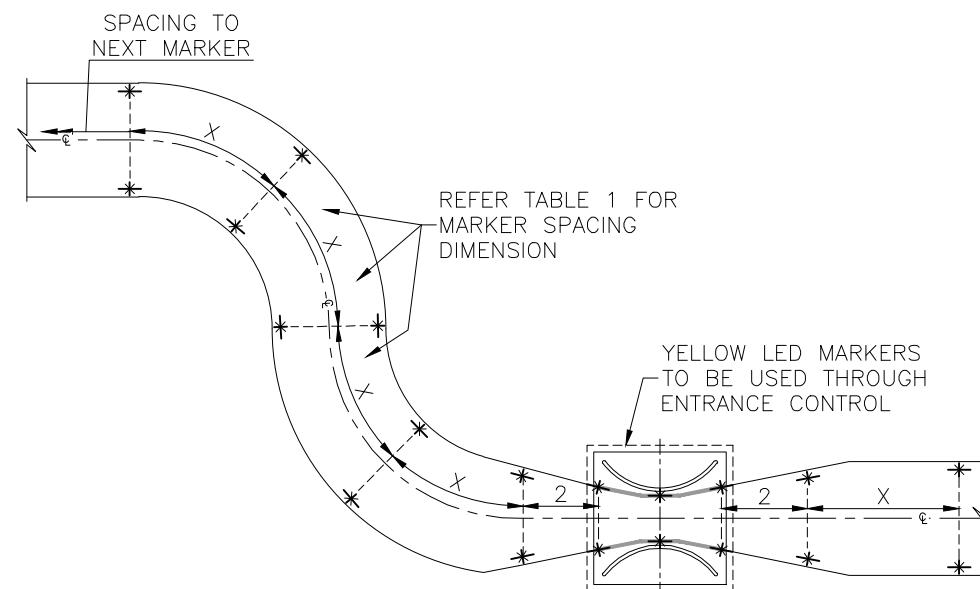
TYPICAL CROSS SECTIONS

W AND D TO SUPPLIER/MANUFACTURER REQUIREMENTS



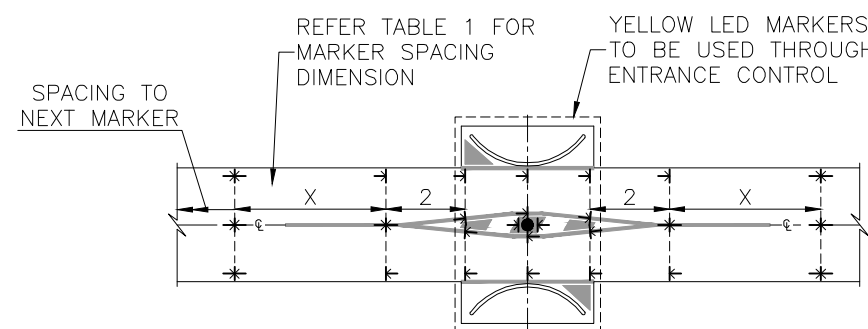
LONGITUDINAL LINE AT MARKER

CIRCULAR, FLUSH MOUNTED TYPE SHOWN AS EXAMPLE



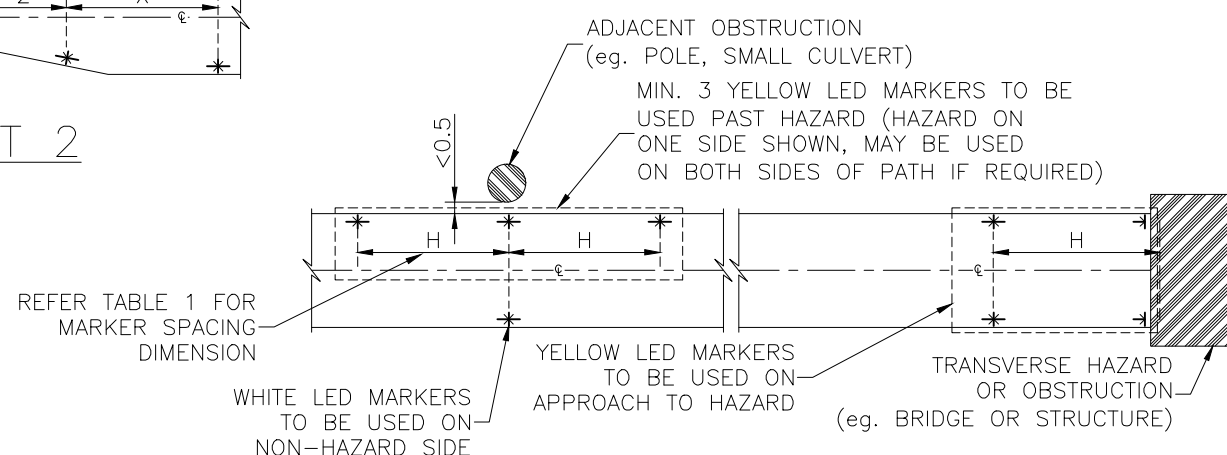
INSTALLATION ARRANGEMENT 2

INSTALLATION AT TYPE 1 ENTRANCE CONTROL
AND TIGHT CURVES (<20m RADIUS)



INSTALLATION ARRANGEMENT 3

INSTALLATION AT TYPE 2 ENTRANCE CONTROL



INSTALLATION ARRANGEMENT 4

INSTALLATION PAST OR APPROACHING A HAZARD

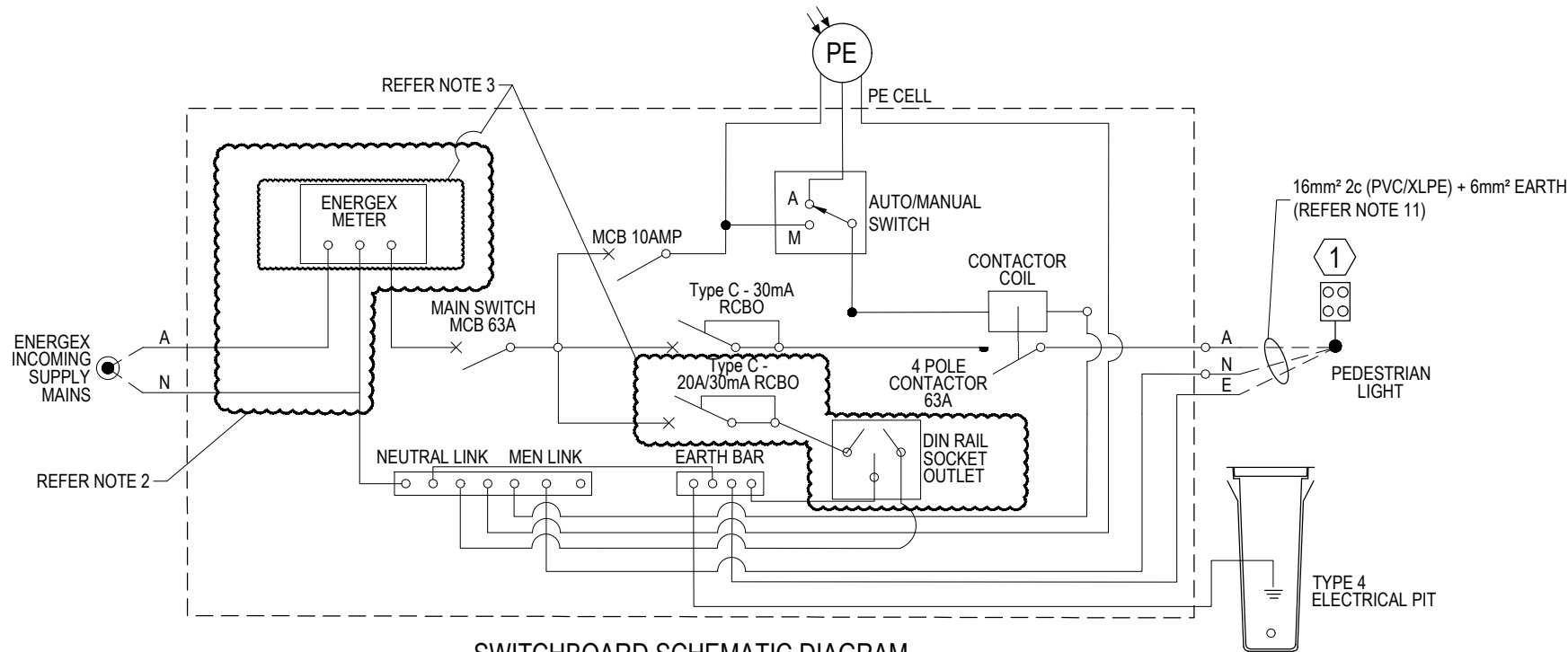
LEGEND

- * BI-DIRECTIONAL SOLAR LED MARKER
- ➔ UNI-DIRECTIONAL SOLAR LED MARKER

NOTES:

- USE OF SOLAR POWERED MARKERS TO BE IN ACCORDANCE WITH REQUIREMENTS OF BCC POLICY AT03 SHARED PATHWAY LIGHTING – INSTALLATION GUIDE.
- FLUSH MOUNTED SOLAR LED MARKERS PREFERRED TYPE. SURFACE MOUNTED MARKERS TYPICALLY TO BE USED ON STRUCTURES OR WHERE CORING INTO SURFACE NOT POSSIBLE (EG. TIMBER DECKING).
- SOLAR LED MARKER TO BE SECURELY AFFIXED TO PATH.
- WHITE MARKERS TO BE USED IN GENERAL GUIDANCE AND DIRECTIONAL SITUATIONS, YELLOW MARKERS TO BE USED IN HAZARD AND ENTRANCE CONTROL LOCATIONS.
- ALL LINEAR DIMENSIONS (i.e. ALONG THE PATH) TO BE MEASURED ALONG THE PATH CENTERLINE.
- REFER BRISBANE CITY COUNCIL STANDARD DRAWINGS BSD-5001 AND BSD-5002 FOR ENTRANCE CONTROL SETOUT DETAILS.
- REFER BRISBANE CITY COUNCIL STANDARD DRAWINGS BSD-5007 FOR SHARED PATH PAVEMENT MARKING DETAILS.
- SPACINGS SHOWN IN TABLE 1 ARE TYPICAL SPACING FOR MARKERS – SPACINGS MAYBE DECREASED TO ACCOUNT FOR SIGHT LINES AND MAINTAIN CONSTANT VISIBILITY THROUGH HORIZONTAL AND VERTICAL CURVES.
- FOR MARKER TECHNICAL SPECIFICATIONS, REFER BRISBANE CITY COUNCIL REFERENCE SPECIFICATION FOR CIVIL ENGINEERING WORKS S156 SOLAR ROAD AND BIKEWAY MARKERS.
- SOLAR LED MARKERS INSTALLED TO SUPPLIER AND/OR MANUFACTURER REQUIREMENTS.
- ALL DIMENSIONS IN METRES (U.N.O.)

					DRAWING AUTHORISED FOR PUBLICATION SIGNATURE ON ORIGINAL P COTTON DATED 24/09/09 — MANAGER CITY ASSETS, R.P.E.Q. 2546 — STRATEGIC ASSET MANAGEMENT DESIGN APPROVED SIGNATURE ON ORIGINAL I CONDRC (RPEQ 8951) DATED 18/09/09 — PRINCIPAL ENGINEER STRATEGIC ASSET MANAGEMENT —	DESIGN	DJL	DATE	Feb '09		BRISBANE CITY COUNCIL STANDARD DRAWING			
						DRAWN	DJL	DATE	Feb '09		TYPICAL REQUIREMENTS FOR SOLAR LED MARKERS OFF- ROAD SHARED & BICYCLE PATHS	SCALE NOT TO SCALE		
						CHECKED	City Assests	DATE	Sept '09			DWG No.	BSD-11032	
						DRAWING FILENAME	BSD-11032 (A) Typical requirements for solar LED markers off-road shared & bicycle paths.dwg					ORIGINAL SIZE	REVISION	
A	Drawing Converted from UMS Series April 2014			APR '14	APR '14	APR '14					A3			
ISSUE	AMENDMENT			DRAWN DATE	CHK'D DATE	APPR'D DATE	ASSOCIATED PLANS SUPERSEDES UMS-260				A			



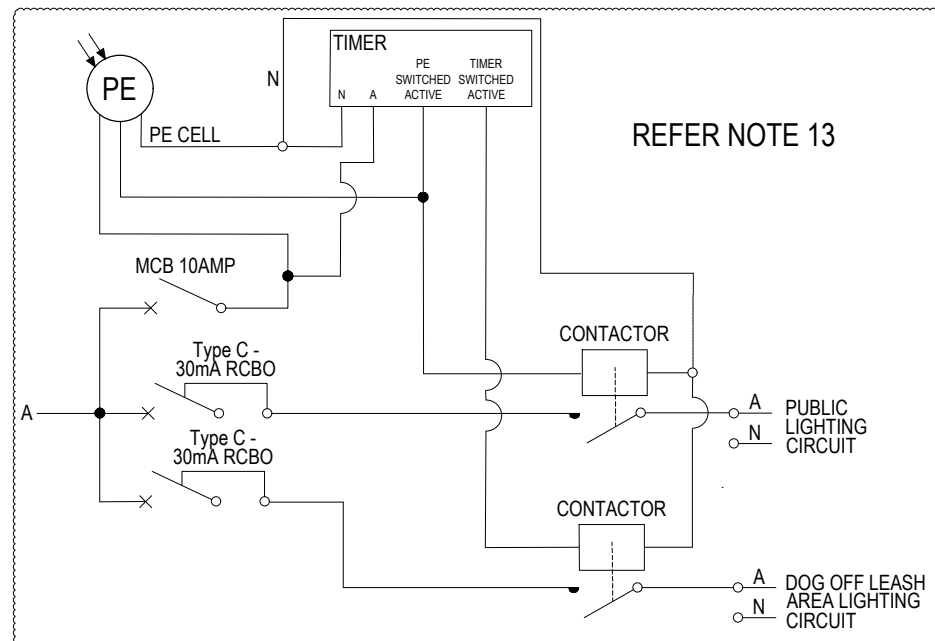
SWITCHBOARD SCHEMATIC DIAGRAM
SCALE: N.T.S.

NOTES:

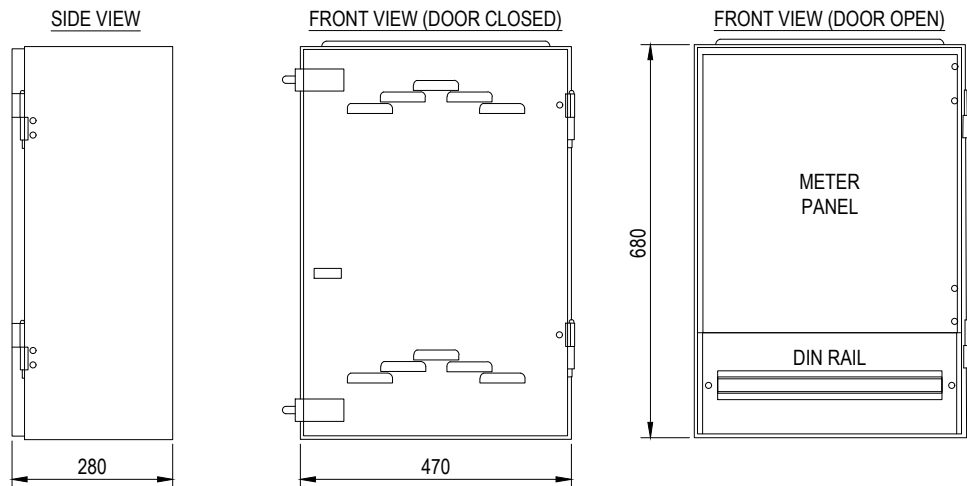
1. ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS3000 (WIRING RULES).
2. ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LATEST QUEENSLAND ELECTRICITY CONNECTION MANUAL (QECM) & QUEENSLAND ELECTRICITY METERING MANUAL (QEMM).
3. FOR UNMETERED LIGHTING INSTALLATIONS - REMOVE ENERGEX METER & POWER CIRCUIT FROM THE INSTALLATION.
4. PE CELL TO BE INSTALLED EXTERNALLY AND TO BE MOUNTED UNDER SWITCHBOARD ENCLOSURE.
5. THE ELECTRICAL CONDUIT TO BE INSTALLED INTERNALLY THROUGH THE STEEL POLE AND THEN UNDERGROUND TO TYPE 4 ELECTRICAL PIT.
6. MAIN SWITCHBOARD AND CONTROL ARRANGEMENT SHALL BE AVAILABLE FROM ANY REPUTABLE ELECTRICAL WHOLESALE.
7. SEAL END OF CONDUITS WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN.
8. ALL DIMENSIONS SHOWN ARE INDICATIVE ONLY.
9. IF TYPE B CIRCUIT BREAKERS ARE USED IN THE INSTALLATION, CLEARLY LABEL WITH MECHANICALLY AFFIXED TRAFFOLYTE LABEL OR EQUIVALENT ADJACENT TO THE CIRCUIT BREAKER.
10. SWITCHBOARD TO BE LABELLED TO BCC STANDARD - SEE EQUIPMENT LIST.
11. INSTALLATION SHALL COMPLY WITH BCC INFRASTRUCTURE INSTALLATION AND CONSTRUCTION REQUIREMENTS MANUAL (IICRM).
12. THE DATE OF INITIAL CERTIFICATION OF THE INSTALLATION SHALL BE AVAILABLE ON-SITE, BY PERMANENT, INDELIBLE MARKING LOCATED INSIDE THE SWITCHBOARD ABOVE THE MAIN NEUTRAL LINK.
13. LIGHTING CONTROL IS TYPICALLY VIA PE CELL ONLY. PE CELL/TIME SWITCH CONTROL CAN BE INSTALLED ONLY IF APPROVED BY BCC.
14. ALL FIXINGS AND SUPPORTS TO BE GALVANIZED.

EQUIPMENT LIST

ITEM	DESCRIPTION
SWITCHBOARD ENCLOSURE	METER BOX - METAL, 21 MODULE SWITCHBOARD AND METER BOX - CLIPSAL OR APPROVED EQUIVALENT
MAIN SWITCH	63 AMP CIRCUIT BREAKER - DIN RAIL MOUNTED - 6kA - CLIPSAL OR APPROVED EQUIVALENT
POWER CIRCUIT (MCB/RCD COMBO)	20A - COMBINATION RCD/MCB, 1 MODULE, 1P+N, 30mA, 6KA, C-CURVE, STANDARD TYPE - CLIPSAL OR EQUAL APPROVED (DO NOT INSTALL IF INSTALLATION IS UNMETERED)
LIGHT CIRCUIT (MCB/RCD COMBO)	AMP RATING OF RCBO DEPENDENT ON LIGHTING DESIGN - COMBINATION RCD/MCB, 1 MODULE, 1P+N, 30mA, 6KA, C-CURVE, STANDARD TYPE - CLIPSAL OR APPROVED EQUIVALENT
AUTO / MANUAL CHANGEOVER SWITCH	ISOLATOR SWITCH, MANUAL CHANGEOVER SWITCH, 1 POLE, 1 MODULE, 40A, MARKED AUTO OFF MAN - DIN RAIL MOUNTED - CLIPSAL OR APPROVED EQUIVALENT
CONTROL CIRCUIT BREAKER (MCB)	10 AMP - DIN RAIL MOUNTED - 6kA - CLIPSAL OR EQUAL APPROVED
DIN RAIL MOUNT SOCKET OUTLET	250V 10A 3 PIN SOCKET OUTLET 4 MODULES WIDE - DIN RAIL MOUNTED
NEUTRAL LINK	INSULATED BASE TYPE - 16mm² SIZE TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING
EARTH LINK	16mm² SIZE TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING
CONTACTOR	MINIMUM 63 AMP - AC3 - 4 POLE - 240V - DIN RAIL MOUNTED - HAGER OR APPROVED EQUIVALENT
PE CELL	PHOTO MICROSWITCH - 1000 WATT OUTPUT - ATCO FM S220 BUTTON SIZE OR APPROVED EQUIVALENT
2x HASP & STAPLES	160mm HINGED HASP AND STAPLE - HOT DIP GALVANISED - LOCKWOOD OR APPROVED EQUIVALENT
2x PADLOCKS	BRISBANE CITY COUNCIL SUPPLIED AZ14 PADLOCKS
EXTERNAL SWITCHBOARD LABEL	TO BCC STANDARD - e.g. D1234S1, R0001C - CONTACT BCC ASSET SERVICES PARKS (IF SWITCHBOARD INSTALLED IN PARK) OR ASSET SERVICES CITY LIGHTING (IF SWITCHBOARD INSTALLED IN ROAD RESERVE) FOR SPECIFIC LABEL AND NUMBERING



TYPICAL PE CELL/TIME SWITCH LIGHTING CONTROL
SCALE: N.T.S.



TYPICAL SWITCHBOARD ENCLOSURE DIMENSIONS
SCALE: N.T.S.



UNDERGROUND SUPPLY FOR SWITCHBOARD



TYPICAL MOUNTED SWITCHBOARD



TYPICAL INTERNAL OF SWITCHBOARD

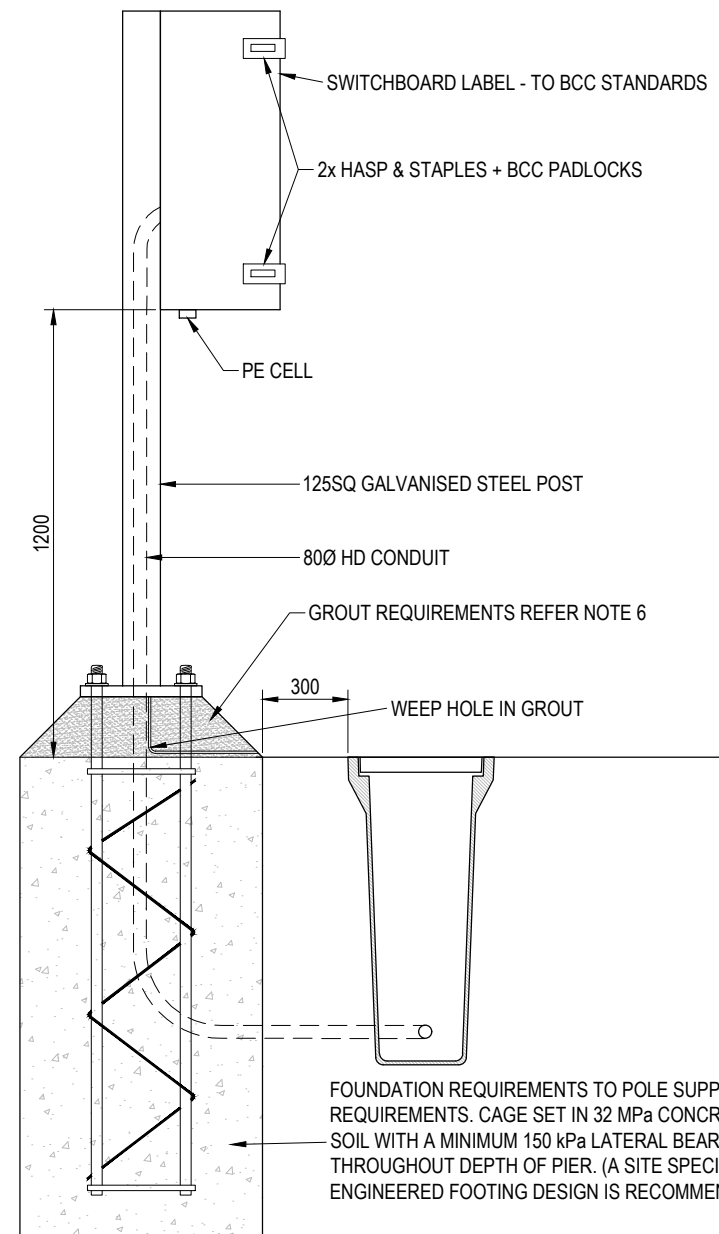
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

PARKS MAIN SWITCHBOARD UNDERGROUND SUPPLY - DETAILS SHEET 1 OF 4

PUBLISH DATE	March 2021
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-11101
ORIGINAL SIZE	A3
REVISION	A



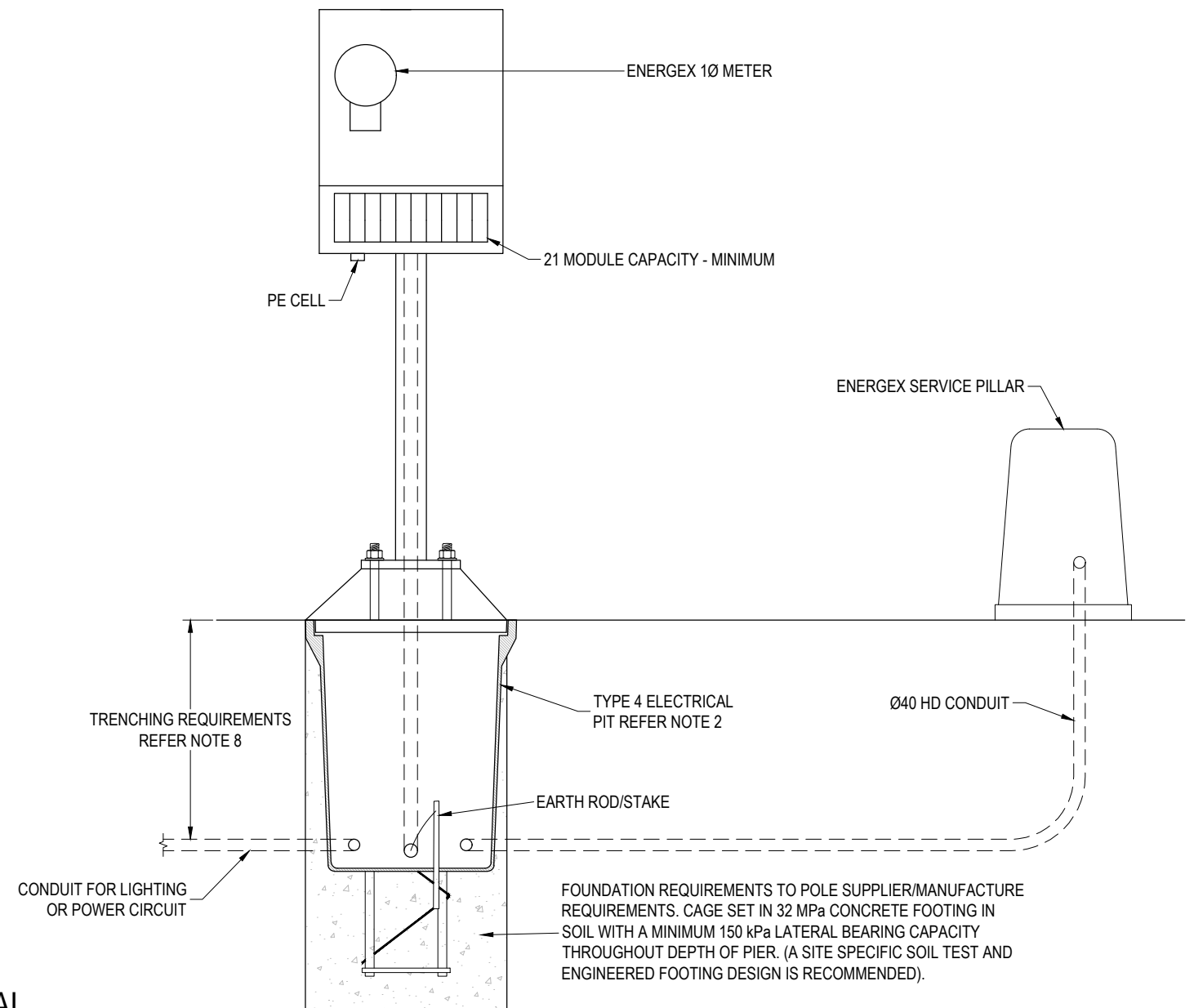
SIDE VIEW SECTION

MSB SWITCHBOARD & ELECTRICAL PIT/CONDUIT DETAIL

SCALE: N.T.S.

NOTES:

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS3000 (WIRING RULES).
2. TYPE 4 ELECTRICAL PIT WITH CONCRETE LID TO BE INSTALLED AT THE BASE OF THE SWITCHBOARD. FOR TYPE 4 ELECTRICAL PIT REFER TO BSD-1011 & BSD-1012. PIT LID TO BE LOAD RATED TO MINIMUM CLASS 'B' TO AS3996 .
3. THE ELECTRICAL CONDUIT TO BE INSTALLED INTERNALLY THROUGH THE STEEL POLE AND THEN UNDERGROUND TO TYPE 4 ELECTRICAL PIT.
4. CONTACT GM POLES TO FABRICATE POST TOP GALVANISED BRACKET - QUOTING PROJECT ID: 108670 or APPROVED EQUAL CAN BE FABRICATED.
5. SEAL END OF CONDUITS WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN.
6. SEAL EXTERNAL BASE OF POLES WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN. NON-SHRINK GROUT PLACED FLUSH WITH THE UNDERSIDE OF THE BASE PLATE & TAPER AWAY FROM POLE AT APPROXIMATELY 45°. A MINIMUM 12mm WEEP HOLE IS RECOMMENDED TO ALLOW FOR DRAINAGE OF CONDENSATION FROM INSIDE POLE.
7. ALL DIMENSIONS IN SHOWN ARE INDICATIVE ONLY.
8. FOR TRENCH DEPTHS/TRENCHING REQUIREMENTS REFER TO BSD-4015 AND S145 INSTALLATION AND MAINTENANCE OF UTILITY SERVICES.
9. ALL FIXINGS AND SUPPORTS TO BE GALVANIZED.



FRONT VIEW SECTION

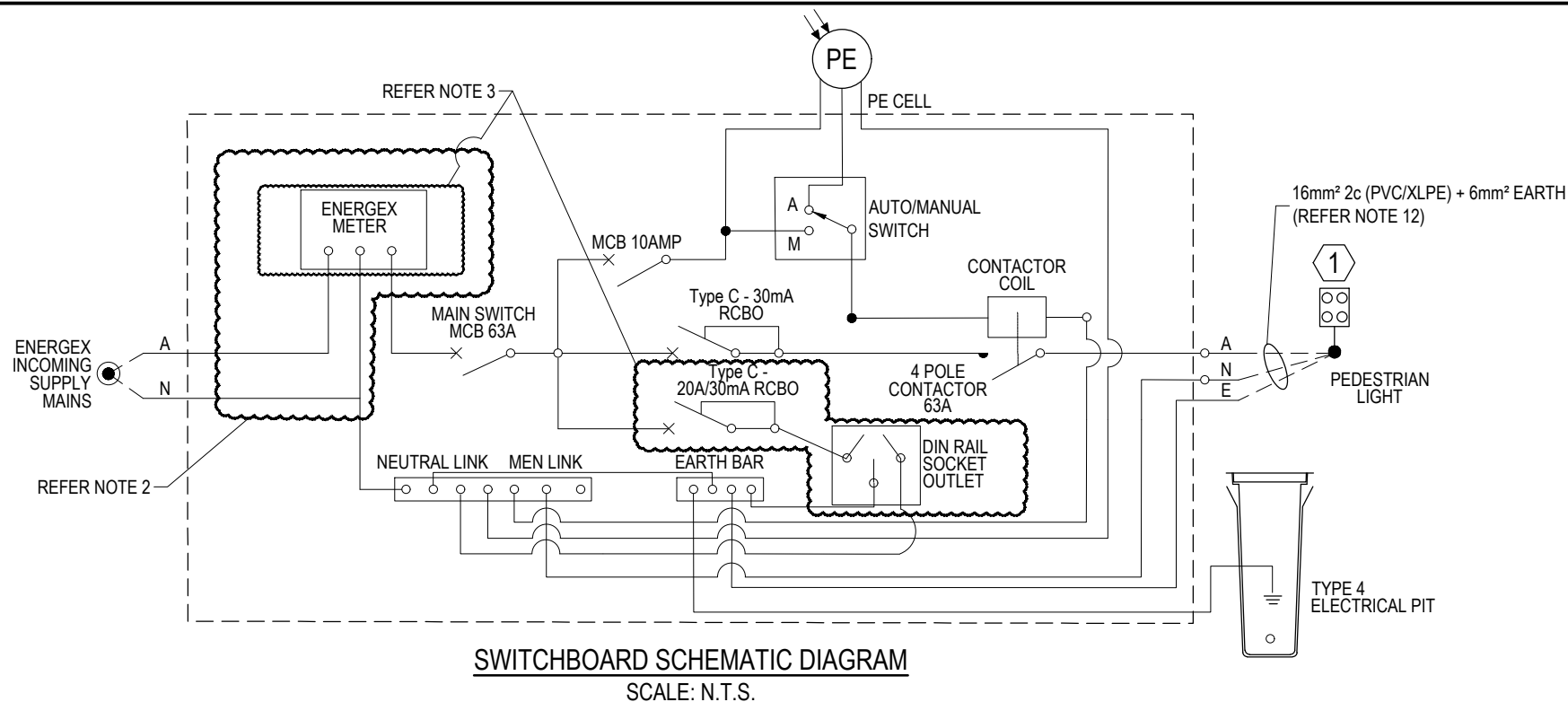
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BRISBANE CITY COUNCIL STANDARD DRAWING

PARKS MAIN SWITCHBOARD
UNDERGROUND SUPPLY - INSTALLATION
SHEET 2 OF 4

PUBLISH DATE	March 2021
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-11101
ORIGINAL SIZE	A3
REVISION	A

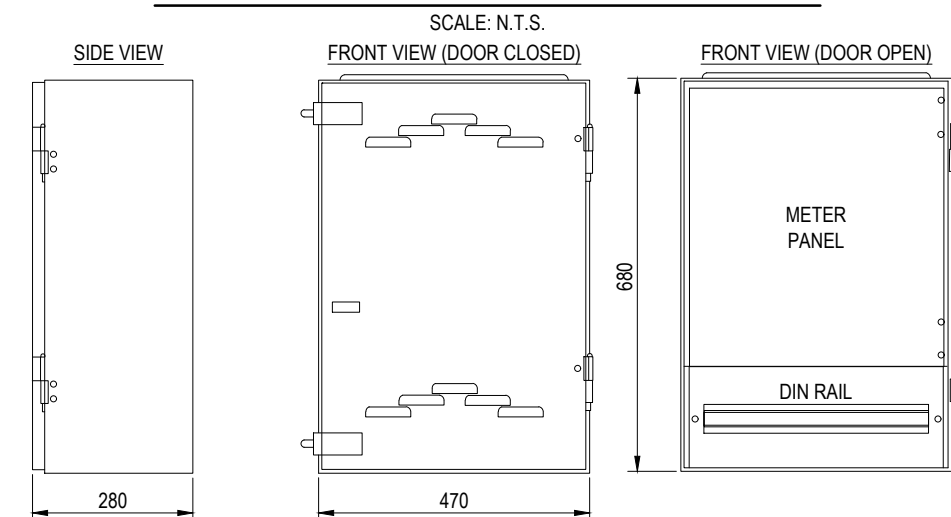
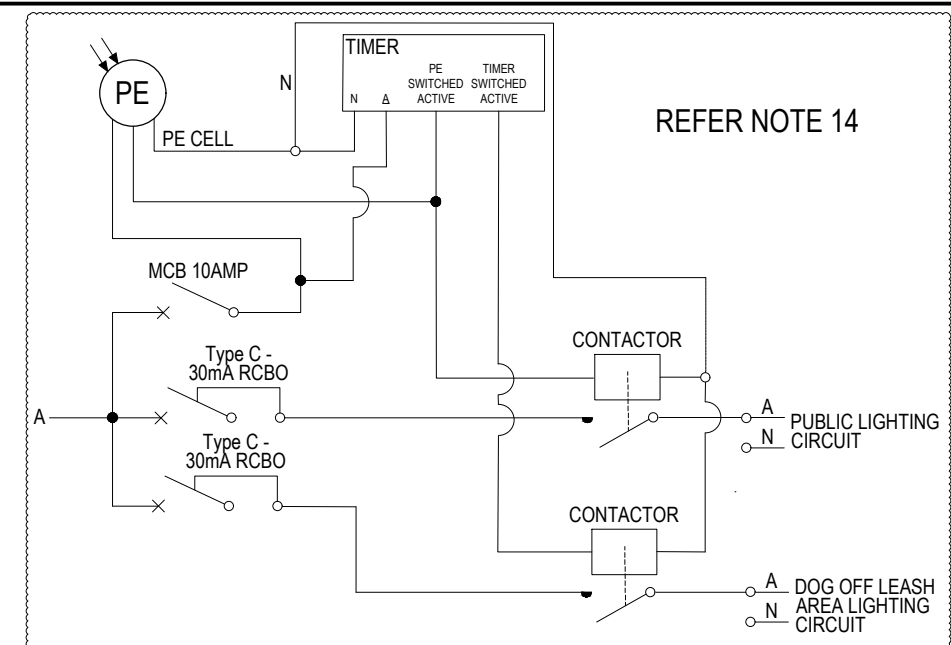


NOTES:

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- FOR UNMETERED LIGHTING INSTALLATIONS - REMOVE ENERGEX METER & POWER CIRCUIT FROM THE INSTALLATION.
- PE CELL TO BE INSTALLED EXTERNALLY AND TO BE MOUNTED UNDER SWITCHBOARD ENCLOSURE.
- THE ELECTRICAL CONDUIT FIXED TO TIMBER POLE SHALL BE MECHANICALLY PROTECTED BY A HOT DIP GALVANISED SURFACE MOUNT CABLE COVER.
- MAIN SWITCHBOARD AND CONTROL ARRANGEMENT SHALL BE AVAILABLE FROM ANY REPUTABLE ELECTRICAL WHOLESALER.
- SEAL ENDS OF CONDUITS WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN.
- SEAL EXTERNAL BASE OF STEEL POLES WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN.
- ALL DIMENSIONS SHOWN ARE INDICATIVE ONLY.
- IF TYPE B CIRCUIT BREAKERS ARE USED IN THE INSTALLATION, CLEARLY LABEL WITH MECHANICALLY AFFIXED TRAFFOLYTE LABEL OR EQUIVALENT ADJACENT TO THE CIRCUIT BREAKER.
- SWITCHBOARD TO BE LABELLED TO BCC STANDARD - SEE EQUIPMENT LIST.
- INSTALLATION SHALL COMPLY WITH BCC INFRASTRUCTURE INSTALLATION AND CONSTRUCTION REQUIREMENTS MANUAL (IICRM).
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- LIGHTING CONTROL IS TYPICALLY VIA PE CELL ONLY. PE CELL/TIME SWITCH CONTROL CAN BE INSTALLED ONLY IF APPROVED BY BCC.
- ALL FIXINGS AND SUPPORTS TO BE GALVANIZED.

EQUIPMENT LIST

ITEM	DESCRIPTION
SWITCHBOARD ENCLOSURE	METER BOX - METAL, 21 MODULE SWITCHBOARD AND METER BOX - CLIPSAL OR APPROVED EQUIVALENT
MAIN SWITCH	63 AMP CIRCUIT BREAKER - DIN RAIL MOUNTED - 6kA - CLIPSAL OR APPROVED EQUIVALENT
POWER CIRCUIT (MCB/RCD COMBO)	20A - COMBINATION RCD/MCB, 1 MODULE, 1P+N, 30mA, 6kA, C-CURVE, STANDARD TYPE - CLIPSAL OR APPROVED EQUIVALENT (DO NOT INSTALL IF INSTALLATION IS UNMETERED)
LIGHT CIRCUIT (MCB/RCD COMBO)	AMP RATING OF RCBO DEPENDENT ON LIGHTING DESIGN - COMBINATION RCD/MCB, 1 MODULE, 1P+N, 30mA, 6kA, C-CURVE, STANDARD TYPE - CLIPSAL OR APPROVED EQUIVALENT
AUTO / MANUAL CHANGEOVER SWITCH	ISOLATOR SWITCH, MANUAL CHANGEOVER SWITCH, 1 POLE, 1 MODULE, 40A, MARKED AUTO OFF MAN - DIN RAIL MOUNTED - CLIPSAL OR APPROVED EQUIVALENT
CONTROL CIRCUIT BREAKER (MCB)	10 AMP - DIN RAIL MOUNTED - 6kA - CLIPSAL OR APPROVED EQUIVALENT
DIN RAIL MOUNT SOCKET OUTLET	250V 10A 3 PIN SOCKET OUTLET 4 MODULES WIDE - DIN RAIL MOUNTED
NEUTRAL LINK	INSULATED BASE TYPE - 16mm ² SIZE TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING
EARTH LINK	16mm ² SIZE TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING
CONTACTOR	MINIMUM 63 AMP - AC3 - 4 POLE - 240V - DIN RAIL MOUNTED - HAGER OR APPROVED EQUIVALENT
PE CELL	PHOTO MICROSWITCH - 1000 WATT OUTPUT - ATCO FM S220 BUTTON SIZE OR APPROVED EQUIVALENT
2x HASP & STAPLES	160mm HINGED HASP AND STAPLE - HOT DIP GALVANISED - LOCKWOOD OR APPROVED EQUIVALENT
2x PADLOCKS	BRISBANE CITY COUNCIL supplied AZ14 PADLOCKS
EXTERNAL SWITCHBOARD LABEL	TO BCC STANDARD - e.g. D1234S1, R0001C - CONTACT BCC ASSET SERVICES PARKS (IF SWITCHBOARD INSTALLED IN PARK) OR ASSET SERVICES CITY LIGHTING (IF SWITCHBOARD INSTALLED IN ROAD RESERVE) FOR SPECIFIC LABEL AND NUMBERING



OVERHEAD SUPPLY FOR SWITCHBOARD



TYPICAL MOUNTED SWITCHBOARD



TYPICAL INTERNAL OF SWITCHBOARD

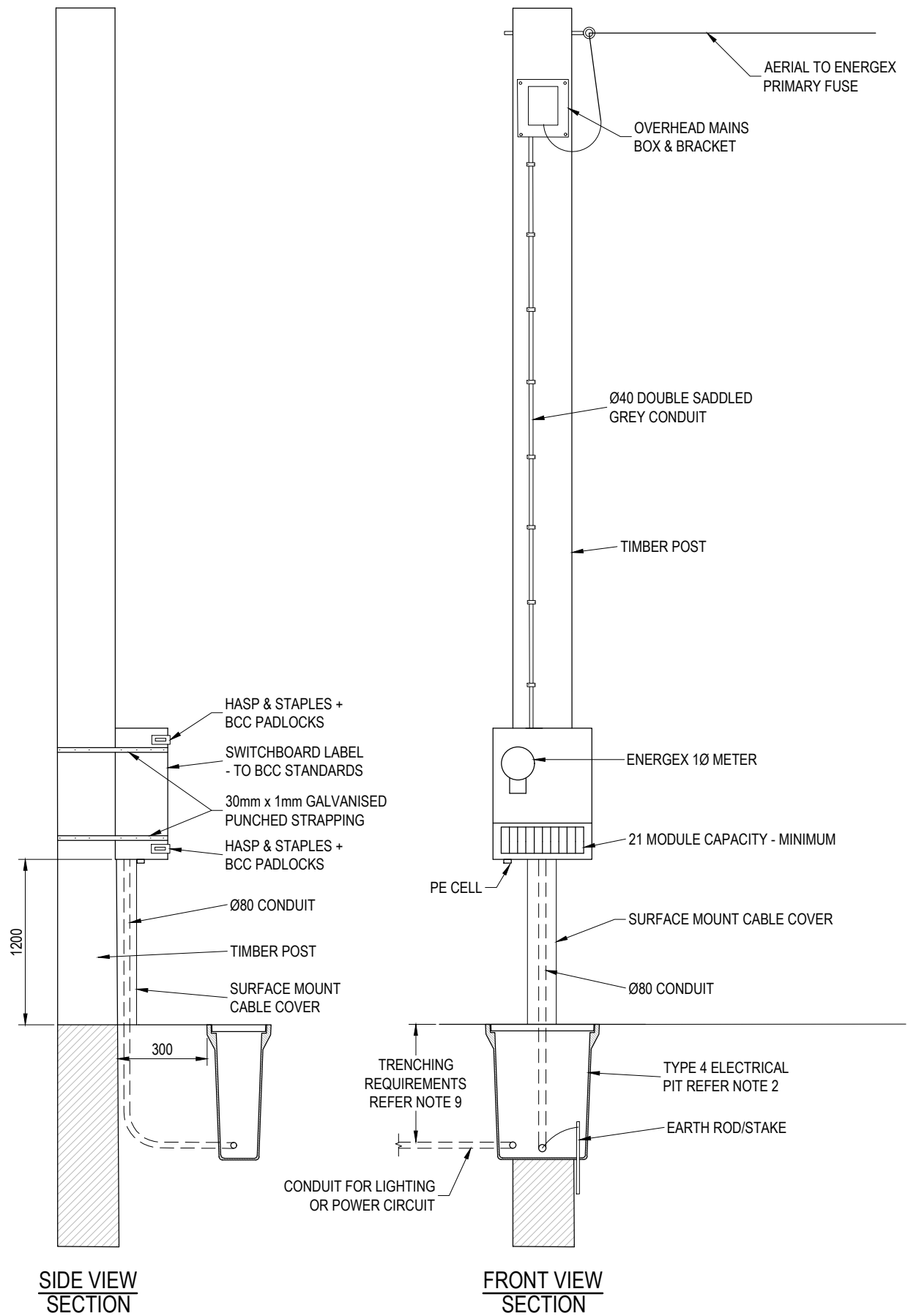
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BRISBANE CITY COUNCIL STANDARD DRAWING

PARKS MAIN SWITCHBOARD OVERHEAD SUPPLY - DETAILS SHEET 3 OF 4

PUBLISH DATE	March 2021
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-11101
ORIGINAL SIZE	A3
REVISION	A



SIDE VIEW
SECTION

FRONT VIEW
SECTION

**MSB SWITCHBOARD & ELECTRICAL
PIT/CONDUIT DETAIL**

SCALE: NTS

EQUIPMENT LIST	
ITEM	DESCRIPTION
EXTERNAL SWITCHBOARD LABEL	TO BCC STANDARD - e.g. D1234S1, R0001C - CONTACT BCC ASSET SERVICES PARKS (IF SWITCHBOARD INSTALLED IN PARK) OR ASSET SERVICES CITY LIGHTING (IF SWITCHBOARD INSTALLED IN ROAD RESERVE) FOR SPECIFIC LABEL AND NUMBERING
TYPE 4 ELECTRICAL PIT	PLASTIC TYPE 4 ELECTRICAL PIT WITH CONCRETE LID - ADCO OR APPROVED EQUIVALENT - REFER NOTE 2
Ø80 HD CONDUIT	1X 4M HEAVY DUTY (HD) CONDUIT FROM ELECTRICAL PIT TO SWITCHBOARD
Ø80 HD CONDUIT	1X Ø80 HEAVY DUTY (HD) SWEEP
COPPER PLATED EARTH ROD	SITE SPECIFIC EARTH STAKE/ROD
EARTH STAKE CLAMP	EARTH STAKE CLAMP SPECIFIC TO EARTH ROD
EARTH LABEL	'DO NOT DISCONNECT' EARTH TAG
MAINS BOX - SINGLE PHASE	SICAME MAINS BOX MCB1-2HAE OR APPROVED EQUIVALENT
MAINS BOX BRACKET	U SHAPE - SINGLE PHASE (TIMBER POLE MOUNT)
Ø40 MD CONDUIT	3 X Ø40 MEDIUM DUTY (MD) CONDUIT FROM MAINS BOX TO BOTTOM OF SWITCHBOARD ENTRY.
40mm DOUBLE SADDLES - GALVANISED	CLIPSAL 173HDGM SADDLE DOUBLE SIDED 40mm HEAVY DUTY GALVANISED OR APPROVED EQUIVALENT.
SURFACE MOUNT CABLE COVER	B&R 100mm x 1200mm SURFACE MOUNTED HAT SECTION (TIMBER POLE MOUNTING) OR APPROVED EQUIVALENT
GALVANISED PUNCHED STRAPPING	ABEY 30mm x 1mm GALVANISED PUNCHED STRAPPING (TO BRACE SWITCHBOARD TO TIMBER POLE) OR APPROVED EQUIVALENT

NOTES:

- ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS3000 (WIRING RULES).
- TYPE 4 ELECTRICAL PIT WITH CONCRETE LID TO BE INSTALLED AT THE BASE OF THE SWITCHBOARD. FOR TYPE 4 ELECTRICAL PIT REFER TO BSD-1011 & BSD-1012. PIT LID TO BE LOAD RATED TO MINIMUM CLASS 'B' TO AS3996.
- ALL CONDUITS SHALL BE FIXED VIA DOUBLE SADDLES.
- THE ELECTRICAL CONDUITS SHALL BE MECHANICALLY PROTECTED BY A HOT DIP GALVANISED SURFACE MOUNT CABLE COVER (HAT SECTION) TO PREVENT DAMAGE TO ELECTRICAL CONDUITS FROM MECHANICAL EQUIPMENT E.G. MOWERS, WHIPPER SNIPPERS ETC...
- SWITCHBOARD SHALL BE STRAPPED AT TOP AND BOTTOM TO THE POLE VIA GALVANISED PUNCHED STRAPPING PURCHASED FROM ELECTRICAL WHOLESALER.
- SEAL END OF CONDUITS WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN.
- SEAL EXTERNAL BASE OF STEEL POLES WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN. NON-SHRINK GROUT PLACED FLUSH WITH THE UNDERSIDE OF THE BASE PLATE & TAPER AWAY FROM POLE AT APPROXIMATELY 45°. A MINIMUM 12mm WEEP HOLE IS RECOMMENDED TO ALLOW FOR DRAINAGE OF CONDENSATION FROM INSIDE POLE.
- ALL DIMENSIONS IN SHOWN ARE INDICATIVE ONLY.
- FOR TRENCH DEPTHS/TRENCHING REQUIREMENTS REFER TO BSD-4015 AND S145 INSTALLATION AND MAINTENANCE OF UTILITY SERVICES.
- ALL FIXINGS AND SUPPORTS TO BE GALVANIZED.

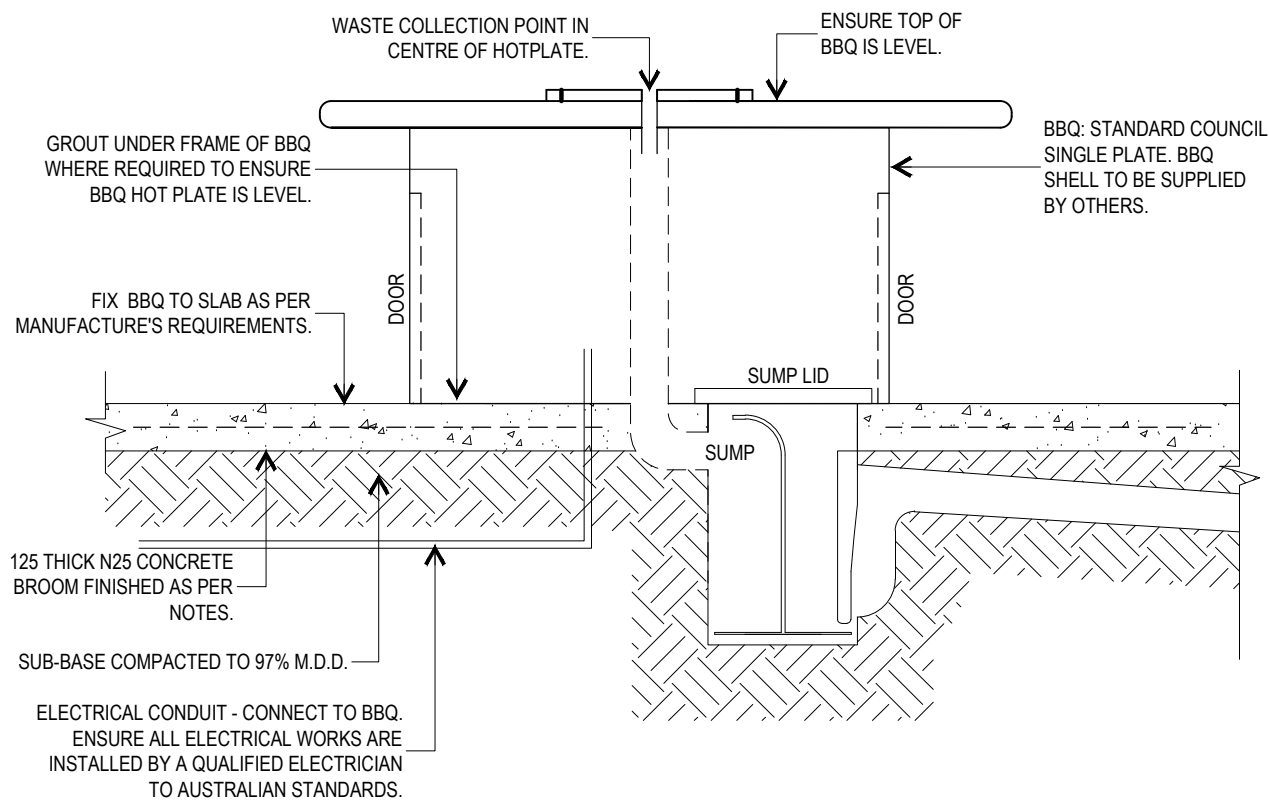
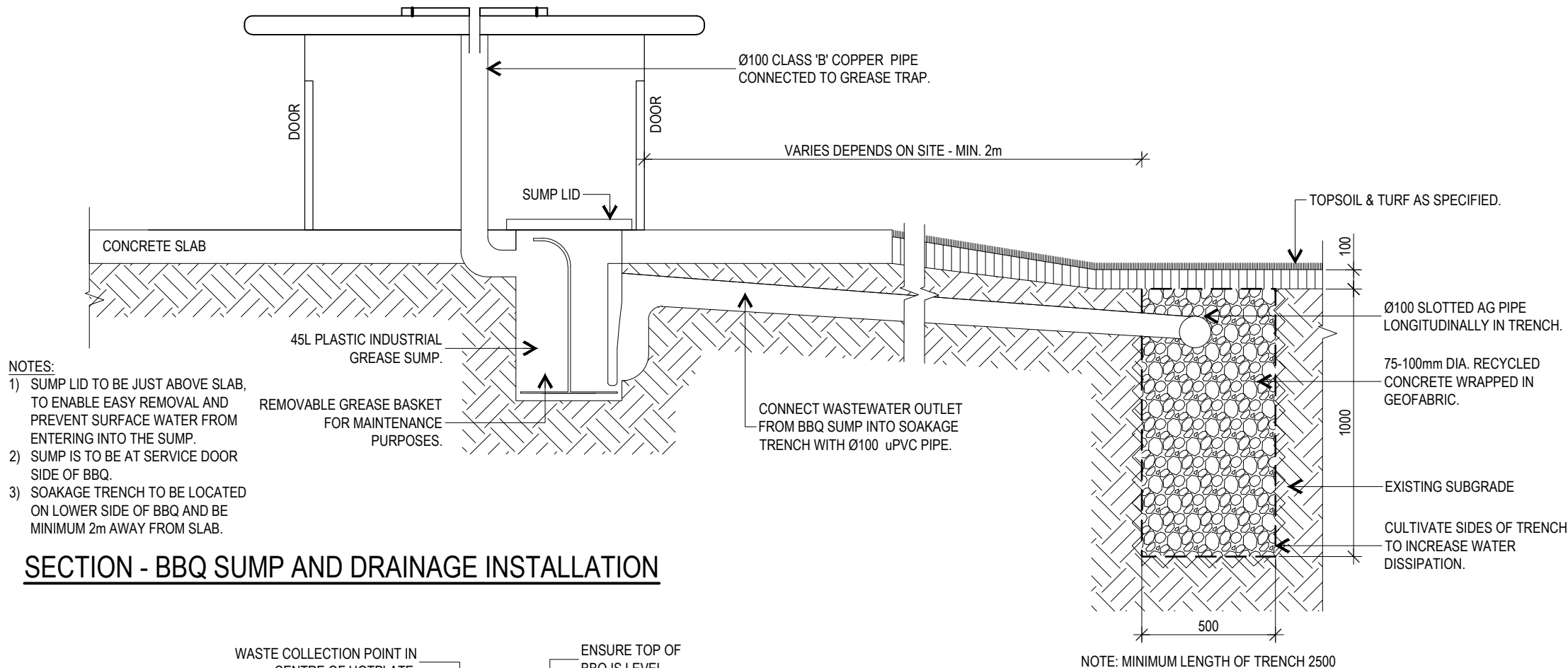
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BRISBANE CITY COUNCIL STANDARD DRAWING

**PARKS MAIN SWITCHBOARD
OVERHEAD SUPPLY - INSTALLATION
SHEET 4 OF 4**

PUBLISH DATE March 2021	
SCALE NOT TO SCALE	
DRAWING NUMBER BSD-11101	
ORIGINAL SIZE A3	REVISION A

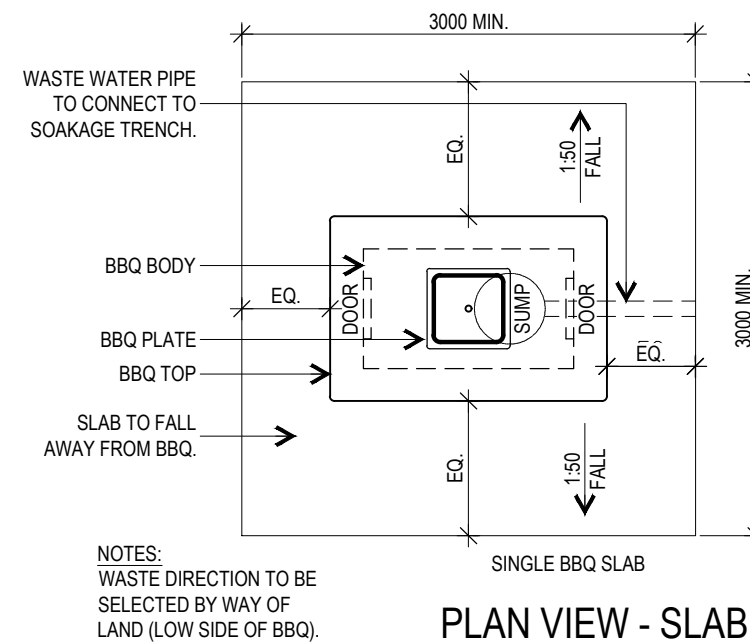


GENERAL NOTES:

1. AT A MINIMUM ALL CONCRETE TO BE GRADE N25 BROOM FINISHED 125mm MINIMUM THICKNESS. ALL CONCRETE WORKS TO BE REINFORCED MIN SL72 MESH. ENSURE MIN TOP AND BOTTOM COVER OF 50mm.
2. CARRY OUT WET PENDULUM TEST SLIP RESISTANCE TESTING ON BBQ SLAB TO AS/NZS4586 FOR ALL NEW SURFACES - LEVEL TO BE CLASSIFIED AS CLASS 'P5' (>44 MEAN BPN USING A SLIDER 55 (TRL) RUBBER PAD) TO AS/NZS4586.
NO ADDITIONAL APPLIED SLIP RESISTANCE TREATMENT IS PERMITTED. CONTRACTOR IS TO UNDERTAKE A SLIP RESISTANCE TEST TO NEW SURFACES IF REQUESTED BY THE SUPERINTENDENT AT NO ADDITIONAL COST.
3. SLIP RESISTANCE TESTING TO BE UNDERTAKEN WITH A BRITISH PENDULUM TEST USING A SLIDER 55 (TRL) RUBBER PAD AND RECORDED AND PRESENTED AS A BPN BY A SUITABLY ACCREDITED NATA LABORATORY. ALL CONCRETE AREAS TO HAVE 1:50 MINIMUM CROSSFALL AWAY FROM BBQ.
4. AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.
5. DIMENSIONS IN MILLIMETRES. (U.N.O.).

BBQ INSTALLATION:

- B1. SLAB SIZE IS SHOWN AS A MINIMUM. SIZE OF SLAB MAY INCREASE AT NODAL POINTS OR WHERE ADDITIONAL CIRCULATION SPACE AROUND BBQ IS REQUIRED.
- B2. PROVIDE LIGHTING WHERE SPECIFIED FOR BBQ PICNIC NODE.
- B3. CONSTRUCT GREASE TRAP AND SOAKAGE TRENCH AS SHOWN.
- B4. WASTE DIRECTION TO BE ON THE LOW SIDE AND SELECTED ON A SITE BY SITE BASIS.
- B5. SUMP AND COPPER PIPING TO BE INSTALLED BY QUALIFIED PLUMBER. COPPER PIPING TO BE CLASS 'B' Ø100mm.
- B6. ALL ELECTRICAL WORK TO BE UNDERTAKEN BY A QUALIFIED ELECTRICIAN. BBQ ELECTRICAL SUPPLY TO BE FROM A METERED SUPPLY - REFER TO MANUFACTURER'S SPECIFICATIONS FOR REQUIRED POWER SUPPLY.
- B7. CIRCUIT PROTECTION TO BE INSTALLED IN ACCORDANCE WITH AS/NZ60335.2.78-2005.2016, AS/NZ3000:2007 OR LATER.
- B8. ENSURE MOWN HEIGHT OF GRASS (TURF) AREAS FINISHES FLUSH WITH PAVEMENT AREA.
- B9. ENSURE GARDEN AREAS (MULCH) FINISH 25mm BELOW ADJACENT F.S.L'S OF PAVEMENT AREAS.
- B10. WHERE APPLICABLE - INCORPORATE BBQ AS PART OF INTEGRATED PICNIC SETTING NODES (REFER BSD-10101).
- B11. ENSURE BBQS ARE LOCATED AND LANDSCAPED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN, AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- B12. CABLE SIZE TO BE A MINIMUM OF 6mm².
- B13. FOR ALL ELECTRIC BBQ INSTALLATIONS COMMENCING MAY 2016 USING A PLUG'N'PLAY COOKING SYSTEM SUPPLIED BY THE BCC PANEL PROVIDER, A SINGLE 15 AMP WEATHERPROOF POWER POINT IS REQUIRED FOR EACH COOKING HOTPLATE.



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		PUBLISH DATE	March 2021
	BRISBANE CITY COUNCIL STANDARD ELECTRIC SINGLE BBQ		SCALE	NOT TO SCALE
	SHEET 1 OF 4		DRAWING NUMBER	BSD-11123
			ORIGINAL SIZE	A3
		REVISION		C

1. AT A MINIMUM ALL CONCRETE TO BE GRADE N25 BROOM FINISHED 125mm MINIMUM THICKNESS. ALL CONCRETE WORKS TO BE REINFORCED MIN SL72 MESH. ENSURE MIN TOP AND BOTTOM COVER OF 50mm.
2. CARRY OUT WET PENDULUM TEST SLIP RESISTANCE TESTING ON BBQ SLAB TO AS/NZS4586 FOR ALL NEW SURFACES - LEVEL TO BE CLASSIFIED AS CLASS 'P5' (>44 MEAN BPN USING A SLIDER 55 (TRL) RUBBER PAD) TO AS/NZS4586.

NO ADDITIONAL APPLIED SLIP RESISTANCE TREATMENT IS PERMITTED. CONTRACTOR IS TO UNDERTAKE A SLIP RESISTANCE TEST TO NEW SURFACES IF REQUESTED BY THE SUPERINTENDENT AT NO ADDITIONAL COST.
3. SLIP RESISTANCE TESTING TO BE UNDERTAKEN WITH A BRITISH PENDULUM TEST USING A SLIDER 55 (TRL) RUBBER PAD AND RECORDED AND PRESENTED AS A BPN BY A SUITABLY ACCREDITED NATA LABORATORY.
4. ALL CONCRETE AREAS TO HAVE 1:50 MINIMUM CROSSFALL AWAY FROM BBQ.
5. AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.
6. DIMENSIONS IN MILLIMETRES. (U.N.O.).

- B1. SLAB SIZE IS SHOWN AS A MINIMUM. SIZE OF SLAB MAY INCREASE AT NODAL POINTS OR WHERE ADDITIONAL CIRCULATION SPACE AROUND BBQ IS REQUIRED.
- B2. PROVIDE LIGHTING WHERE SPECIFIED FOR BBQ PICNIC NODE.
- B3. CONSTRUCT GREASE TRAP AND SOAKAGE TRENCH AS SHOWN.
- B4. WASTE DIRECTION TO BE ON THE LOW SIDE AND SELECTED ON A SITE BY SITE BASIS.
- B5. SUMP AND COPPER PIPING TO BE INSTALLED BY QUALIFIED PLUMBER. COPPER PIPING TO BE CLASS 'B' Ø100mm.
- B6. ALL ELECTRICAL WORK TO BE UNDERTAKEN BY A QUALIFIED ELECTRICIAN. BBQ ELECTRICAL SUPPLY TO BE FROM A METERED SUPPLY - REFER TO MANUFACTURER'S SPECIFICATIONS FOR REQUIRED POWER SUPPLY.
- B7. CIRCUIT PROTECTION TO BE INSTALLED IN ACCORDANCE WITH AS/NZ60335.2.78-2005:2016, AS/NZ3000:2007 OR LATER.
- B8. ENSURE MOWN HEIGHT OF GRASS (TURF) AREAS FINISHES FLUSH WITH PAVEMENT AREA.
- B9. ENSURE GARDEN AREAS (MULCH) FINISH 25mm BELOW ADJACENT F.S.L'S OF PAVEMENT AREAS.
- B10. WHERE APPLICABLE - INCORPORATE BBQ AS PART OF INTEGRATED PICNIC SETTING NODES (REFER BSD-10101).
- B11. ENSURE BBQS ARE LOCATED AND LANDSCAPED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN, AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.
- B12. CABLE SIZE TO BE A MINIMUM OF 6mm².
- B13. FOR ALL ELECTRIC BBQ INSTALLATIONS COMMENCING MAY 2016 USING A PLUG'N'PLAY COOKING SYSTEM SUPPLIED BY THE BCC PANEL PROVIDER, A SINGLE 15 AMP WEATHERPROOF POWER POINT IS REQUIRED FOR EACH COOKING HOTPLATE.



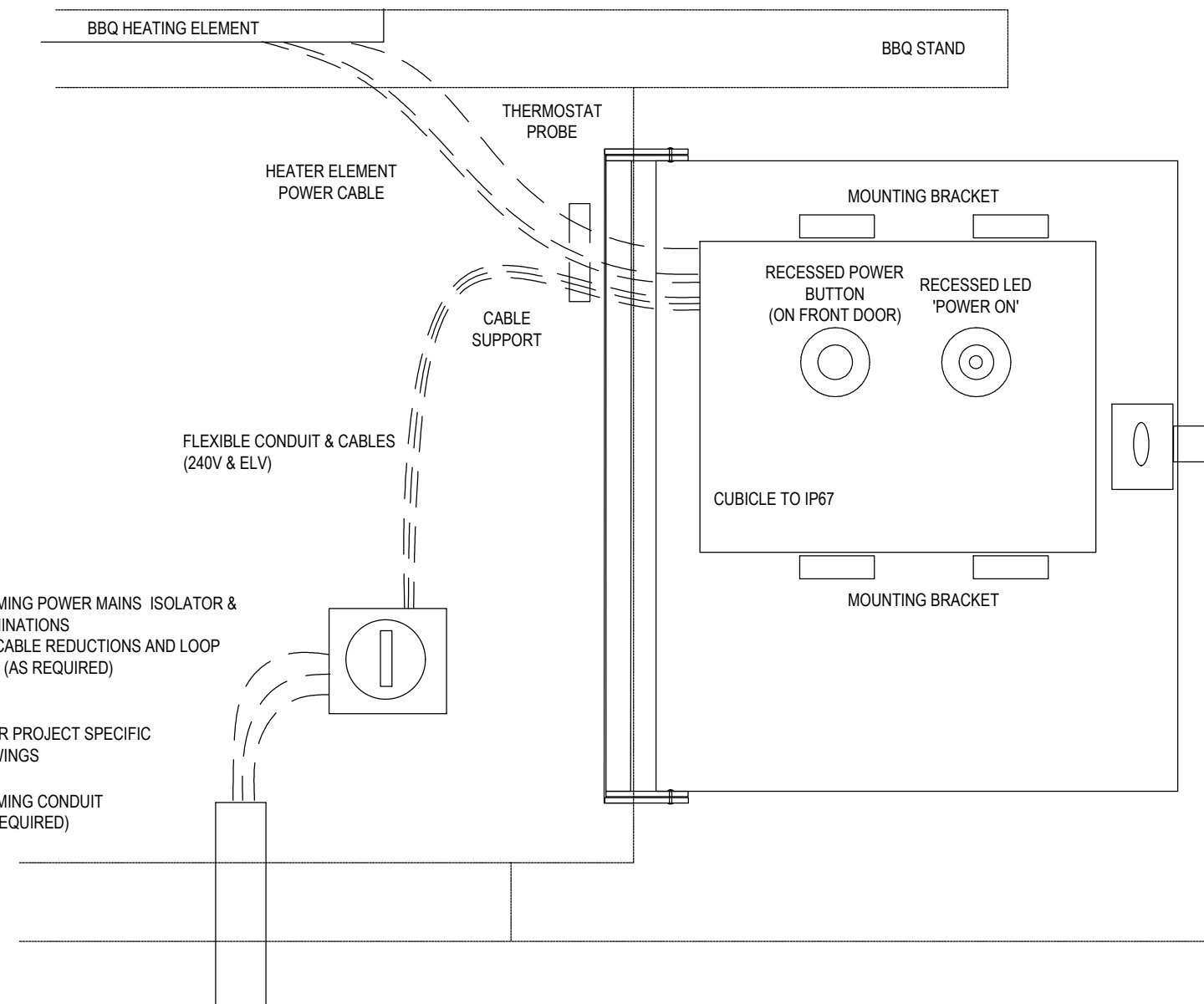
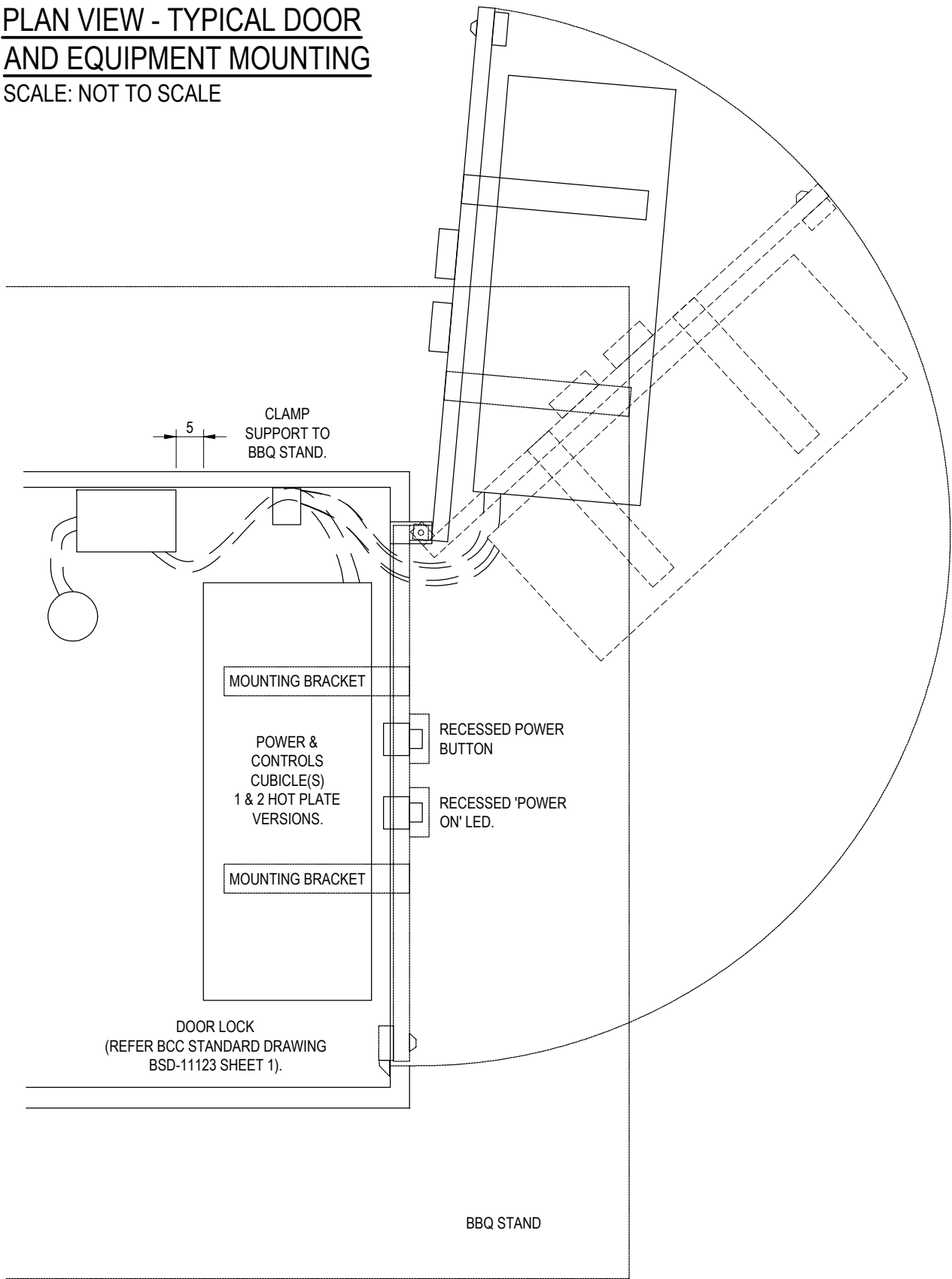
THE FITNESS FOR PURPOSE OF THIS STANDARD
DRAWING FOR A SPECIFIC PROJECT SHALL BE
ASSESSED AND ACCEPTED BY A SUITABLY
QUALIFIED REGISTERED PROFESSIONAL
ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD
ELECTRIC DOUBLE BBQ
SHEET 2 OF 4

PUBLISH DATE	
March 2021	
SCALE	
NOT TO SCALE	
DRAWING NUMBER	
BSD-11123	
ORIGINAL SIZE	REVISION
A3	C

PLAN VIEW - TYPICAL DOOR
AND EQUIPMENT MOUNTING
SCALE: NOT TO SCALE



SECTION VIEW - TYPICAL DOOR AND EQUIPMENT MOUNTING
SCALE: NOT TO SCALE

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).

FOR BBQ INSTALLATIONS
PRIOR TO MAY 2016



BRISBANE CITY COUNCIL STANDARD DRAWING

BRISBANE CITY COUNCIL STANDARD
BBQ SWITCH BOXES SECTION
& SIDE VIEW - SHEET 3 OF 4

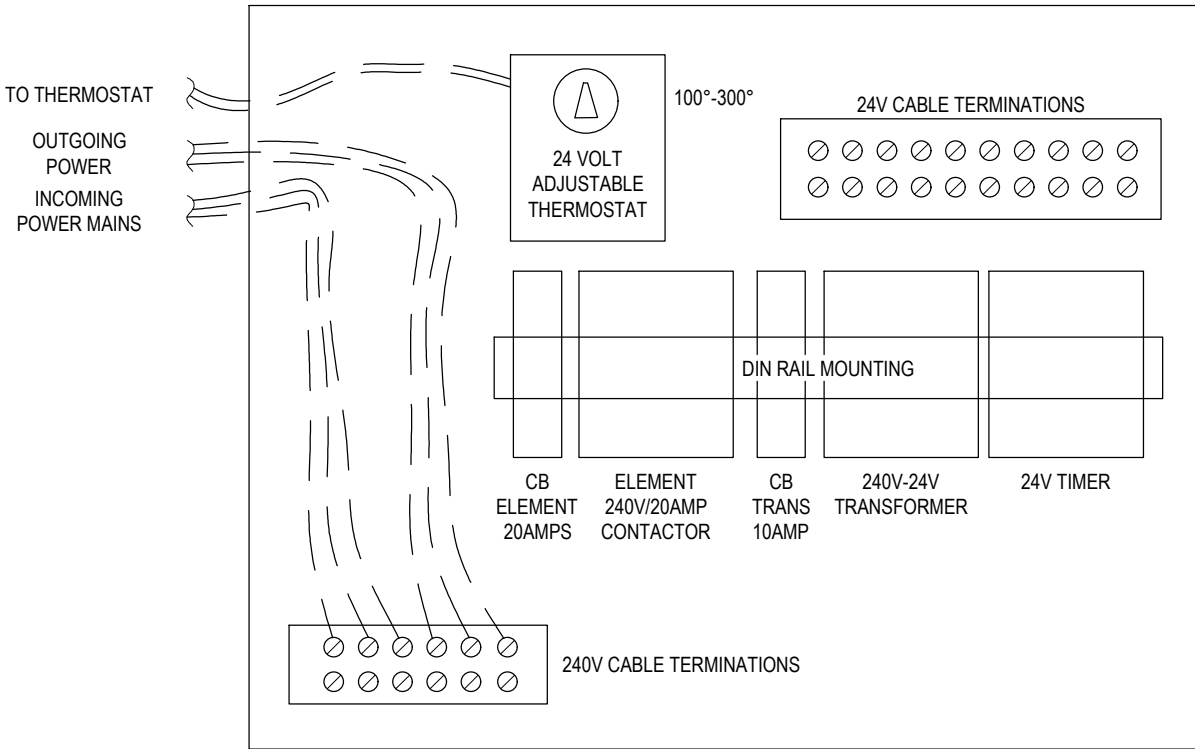
PUBLISH DATE	March 2021
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-11123
ORIGINAL SIZE	A3
REVISION	C

GENERAL NOTES:

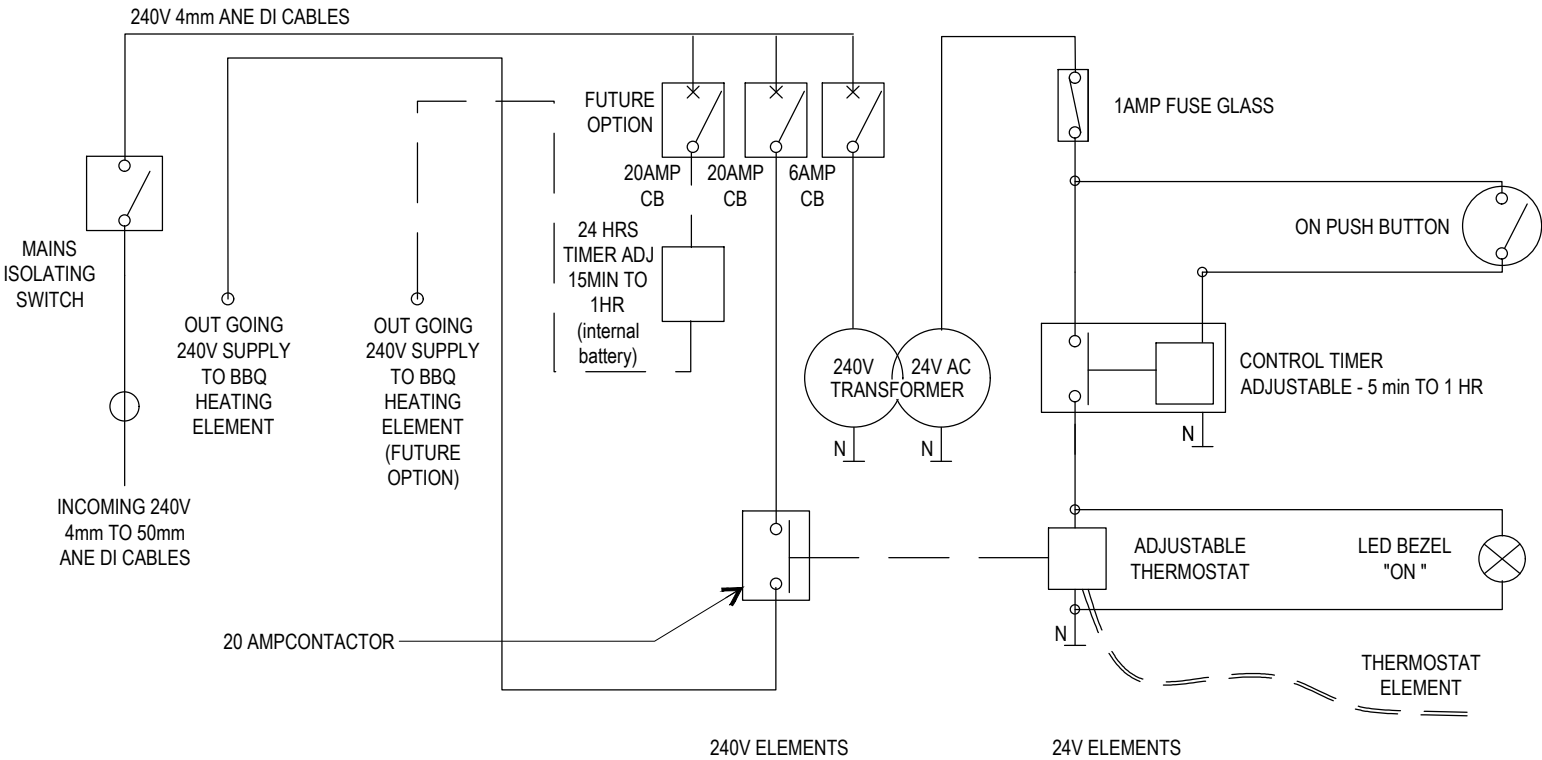
- 1. ALL HARDWARE AND BRACKETS TO BE STAINLESS STEEL MIN. "316" OR TO MATCH BBQ STAND CONSTRUCTION.
- 2. CUBICLE MOUNTING BRACKETS TO BE WELDED OR SECURELY ATTACHED WITH STAINLESS STEEL BOLTS TO BBQ DOOR OR STRUCTURE.
- 3. MOUNT ELECTRICAL CUBICLES INSIDE "ELECTRICAL ACCESS DOOR" (OPPOSITE END TO GREASE CLEANING ACCESS DOOR). EITHER ON HINGED BRACKET OR REAR OF DOOR. BOTH TO ALLOW CUBICLE TO WING OUT TO BE EXTERNAL TO BBQ STAND FOR DIRECT ACCESS. (120-180 DEG - REFER PLANS).
- 4. IF ON DOOR, MAINTAIN MINIMUM 20mm CLEARANCE TO INSIDE OF DOOR SURFACE OR REAR OF "EXTERNAL POWER BUTTON".
- 5. ELECTRICAL CUBICLES TO BE IP67 (PREFERRED IP68) RATED, INCLUDING CABLE GLANDS.
- 6. ELECTRICAL EQUIPMENT TO BE PROPRIETARY CLIPSAL OR EQUIV. AND DIN RAIL MOUNTED FOR EASY REPLACEMENT & MAINTENANCE.
- 7. BBQ INSTALLATION TO BE PROTECTED AT MSB/DB BY RCD OR RCBO
- 8. ALL ELECTRICAL INSTALLATION WORKS TO BE DONE IN ACCORDANCE WITH THE RELEVANT AS/NZS AND DRAWING GUIDELINES.

ELECTRICAL COMPONENT LIST

QTY	DESCRIPTION	MANUFACTURE	PART No.
1	CUBICLE	NLFP / OR APPROVED EQUIVALENT	
1	TRANSFORMER (240V/24V)	REFER TO FIELD SERVICES STANDARDS	
1	TERMINAL BLOCK (24V)	REFER TO FIELD SERVICES STANDARDS	
1	TERMINAL BLOCK (240V)	REFER TO FIELD SERVICES STANDARDS	
1	THERMOSTAT	REFER TO FIELD SERVICES STANDARDS	
1	CIRCUIT BREAKER (20A - ELEMENT)	CLIPSAL	
1	CIRCUIT BREAKER (10A - TRANSFORMER)	CLIPSAL	
1	CONTACTOR (20A ELEMENT)	CLIPSAL	
1	TIMER (24V)	REFER TO FIELD SERVICES STANDARDS	
1	ISOLATING SWITCH (MAINS)	CLIPSAL	
1	FUSE GLASS	REFER TO FIELD SERVICES STANDARDS	



TYPICAL CUBICLE EQUIPMENT LAYOUT (PER HOT PLATE)
SCALE: NOT TO SCALE



TYPICAL BBQ CONTROL CIRCUIT (PER HOT PLATE)
SCALE: NOT TO SCALE

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).

FOR BBQ INSTALLATIONS
PRIOR TO MAY 2016



BRISBANE CITY COUNCIL STANDARD DRAWING

BRISBANE CITY COUNCIL STANDARD
BBQ SWITCH BOXES EQUIPMENT
AND CIRCUIT LAYOUT - SHEET 4 OF 4

PUBLISH DATE	March 2021
SCALE	NOT TO SCALE
DRAWING NUMBER	BSD-11123
ORIGINAL SIZE	A3
REVISION	C