1. TO BE READ IN CONJUNCTION WITH oOh!media DRAWINGS. oOh!media SHELTERS ARE INSTALLED AND MAINTAINED BY oOh!media UNDER CONTRACT WITH BRISBANE CITY COUNCIL.

2. WHERE BUS STOP BOARDING SLAB HAS A CROSSFALL GREATER THAN 1 in 40 (IN BOTH DIRECTIONS) OR VERGE IS LESS THAN MINIMUM WIDTH SHOWN, REFER TO COUNCIL FOR ALTERNATIVE OPTIONS.

3. MINIMUM CLEAR ACCESS PATH OF 1.2m REQUIRED BETWEEN ALL INFRASTRUCTURE AND ALLOCATED SPACES FOR PERSONS WITH A DISABILITY (PWD).

4. ELECTRICITY SUPPLY TO SHELTER AND/OR LIGHT BOX TYPICALLY TARIFF 91 - OTHER (UNMETERED) OR AS DIRECTED BY THE SHELTER OPERATOR (oOh!media). BILLING ARRANGEMENTS FOR THE SHELTER ELECTRICITY SUPPLY TO BE AS ARRANGED BY SHELTER OPERATOR.

5. 550 MIN. COVER TO CONDUITS.

6. CONCRETE, HARDSTANDS TO BE 125mm THICK GRADE N32 CONCRETE BROOM FINISHED SURFACE (FOR SLIP RESISTANCE). SL72 MESH PLACED CENTRALLY.

7. ALTERNATIVE SURFACE FINISHES (i.e. EXPOSED AGGREGATE OR PAVED) TO COMPLY WITH DISABILITY STANDARD FOR LUMINANCE CONTRAST AND/OR AESTHETICS FOR 'CITY SIGNATURE' REQUIREMENTS, AS REQUIRED.

8. THE ALIGNMENT AND DEPTHS OF EXISTING SERVICES SHALL BE PROVEN ON SITE PRIOR TO ANY EXCAVATION. CONTACT "OAL BEFORE YOU DIG" ON TEL. 1100 FOR THE LOCATION OF SERVICE AUTHORITY ASSETS.

9. POINT OF SUPPLY PRIORITY:
   1. 1EPL (ELECTRICITY POWER LIGHT POLE)
   2. 2EPL (ELECTRICITY PILLAR)
   3. 3EPT (ELECTRICITY 4PT)
   4. 4LP (STREET LIGHT POLE)

10. WHERE PLANTINGS ARE PROVIDED, USE ONLY GROUND COVER OR LOW SHRUBS (<0.5m HIGH). TREES FOR SHADE SHOULD BE LONG-TRUNKED WITH MINIMUM BRANCH HEIGHT OF 4.5m, MEASURED IN THE DIRECTION OF THE PATH OF TRAVEL.

11. CUTTING OF TGSI:
   a. NO WARNING TGSI SHALL BE CUT;
   b. CUTTING OF DIRECTIONAL TGSI SHALL BE KEPT TO A MINIMUM;
   c. WHERE DIRECTIONAL TGSI ARE TO BE CUT, THEY SHALL BE CUT IN ADJACENT PAIRS;
   d. THE MINIMUM LENGTH OF EACH OF THE CUT TGSI'S PAIRS SHALL NOT BE LESS THAN 150mm, MEASURED IN THE DIRECTION OF THE PATH OF TRAVEL;
   e. THE PAIR OF DIRECTIONAL TGSI AT THE END OF THE PATH OF TRAVEL SHALL NOT BE CUT.

12. TGSI TYPE, COLOUR AND INSTALLATION AS PER BSD-5216.

13. STORMWATER SOLUTION DESIGN TO BE ASSESSED ON A SITE-BY-SITE BASIS.

14. LONGITUDINAL GRADE TO MATCH ROAD.

15. WASTE BIN TO BE APPROVED BY COUNCIL.

16. ALL DIMENSIONS ARE IN MILLIMETERS (U.N.O.).

**LIGHTING NOTES:**

17. ILLUMINATING THE BUS SHELTER TO COMPLY WITH AS/NZS1158.3.1 - LIGHTING FOR ROADS AND PUBLIC SPACES - PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND DESIGN REQUIREMENTS SUB CATEGORY P6.

18. LIGHTING IS TO BE POSITIONED AT THE FRONT OF THE SHELTER FROM THE ROOF, LIGHTING IS TO NOT ADVERSELY IMPACT ON THE ADJACENT TRAFFIC.

19. LUMINARIES IS TO PRE-VIOUS INTO THE SHELTER.

20. SWITCHBOARD FOR THE SHELTER IS TO BE LOCATED IN THE REAR POST. PE CELL IS TO BE LOCATED ON THE SAME POST IN A POSITION THAT WILL NOT BE IMPACTED BY LIGHTING IN THE PROXIMITY.

21. LIGHT SOURCE IS TO BE LED WITH A CORRELATED Colour TEMPERATURE OF 4000K AND A Colour RENDERING INDEX (CRI) Ra ≥80.

22. LED LUMINARIES OR LAMPS USED FOR BRISBANE CITY COUNCIL, SHALL COMPLY WITH THE FOLLOWING MINIMUM ENERGY PERFORMANCE STANDARDS (MEPS) EFFICACY REQUIREMENTS AS SHOWN IN TABLE 1. THE EFFICACY CALCULATION SHALL BE BASED ON INITIAL LUMINOUS FLUX MEASUREMENTS ACCORDING TO CIE S 025/E (OR IES LM-79).

23. THE LUMINARE DISTRIBUTOR SHOULD ALSO SUPPLY PHOTOMETRIC DATA (IN IES AND/OR CIE FORMAT) FROM A NATA ACCREDITED LABORATORY OR A LABORATORY, WHOSE ACCREDITATION IS RECOGNISED BY NATA UNDER THE MUTUAL RECOGNITION SCHEME.

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**TABLE 1: LED LUMINARIES EFFICIENCY REQUIREMENTS**

<table>
<thead>
<tr>
<th>LED LAMPS</th>
<th>LED LUMINARIES</th>
<th>LED PLANAR, BATTERY &amp; TRAPPERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIRECTIONAL NON-DIRECTIONAL</td>
<td>LUMINOUS FLUX (lm)</td>
<td>LUMINOUS FLUX (lm)</td>
</tr>
<tr>
<td>250 W/B (PRICED TO 31/10/2019)</td>
<td>1200 lm</td>
<td>4000 lm</td>
</tr>
<tr>
<td>200 W/B (PRICED TO 31/10/2019)</td>
<td>1200 lm</td>
<td>4000 lm</td>
</tr>
<tr>
<td>150 W/B (PRICED TO 31/10/2019)</td>
<td>1200 lm</td>
<td>4000 lm</td>
</tr>
<tr>
<td>100 W/B (PRICED TO 31/10/2019)</td>
<td>1200 lm</td>
<td>4000 lm</td>
</tr>
</tbody>
</table>