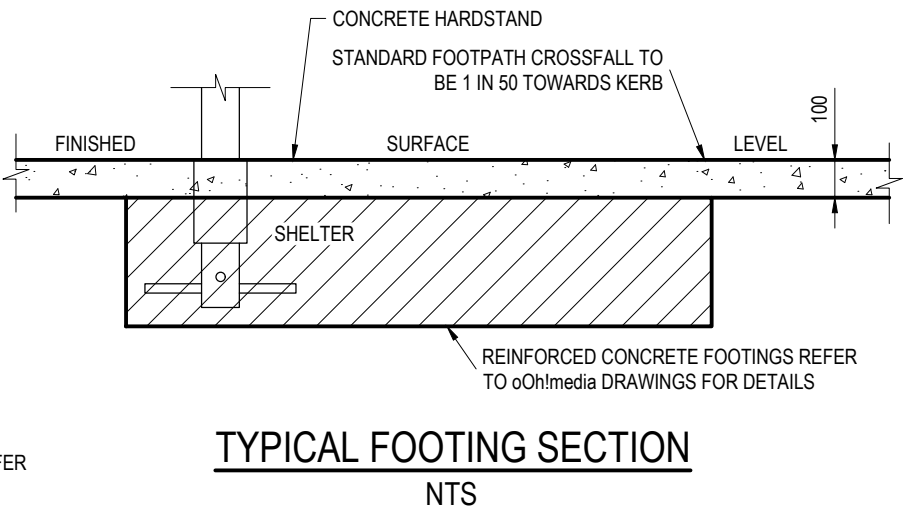
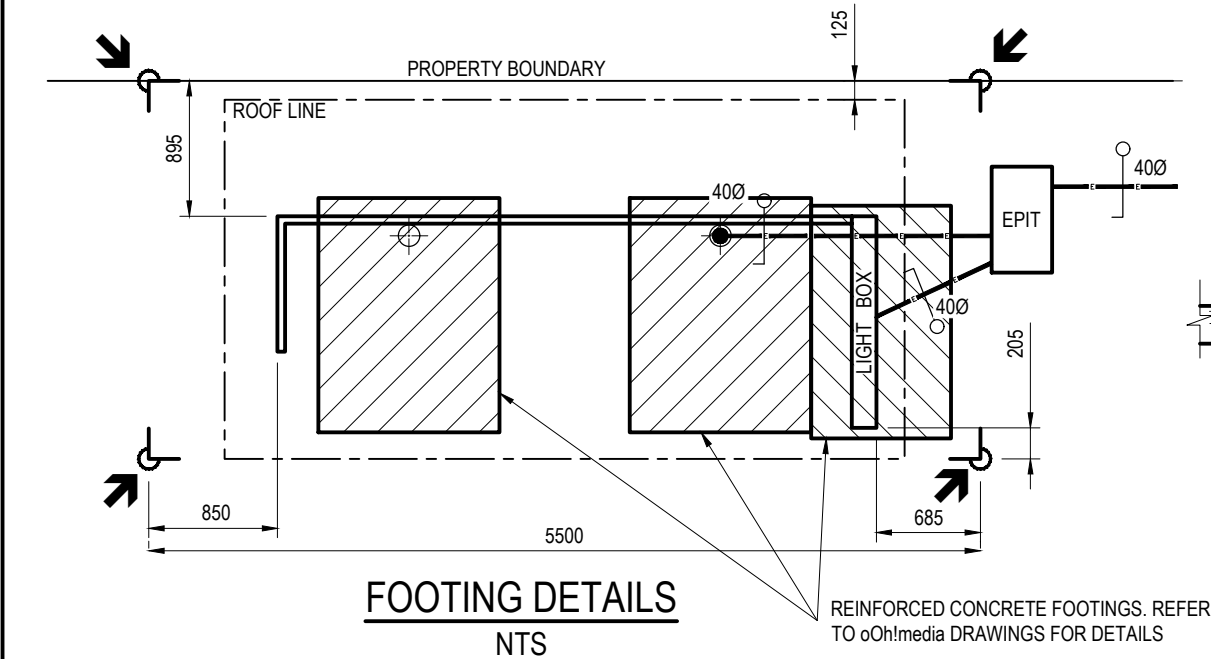
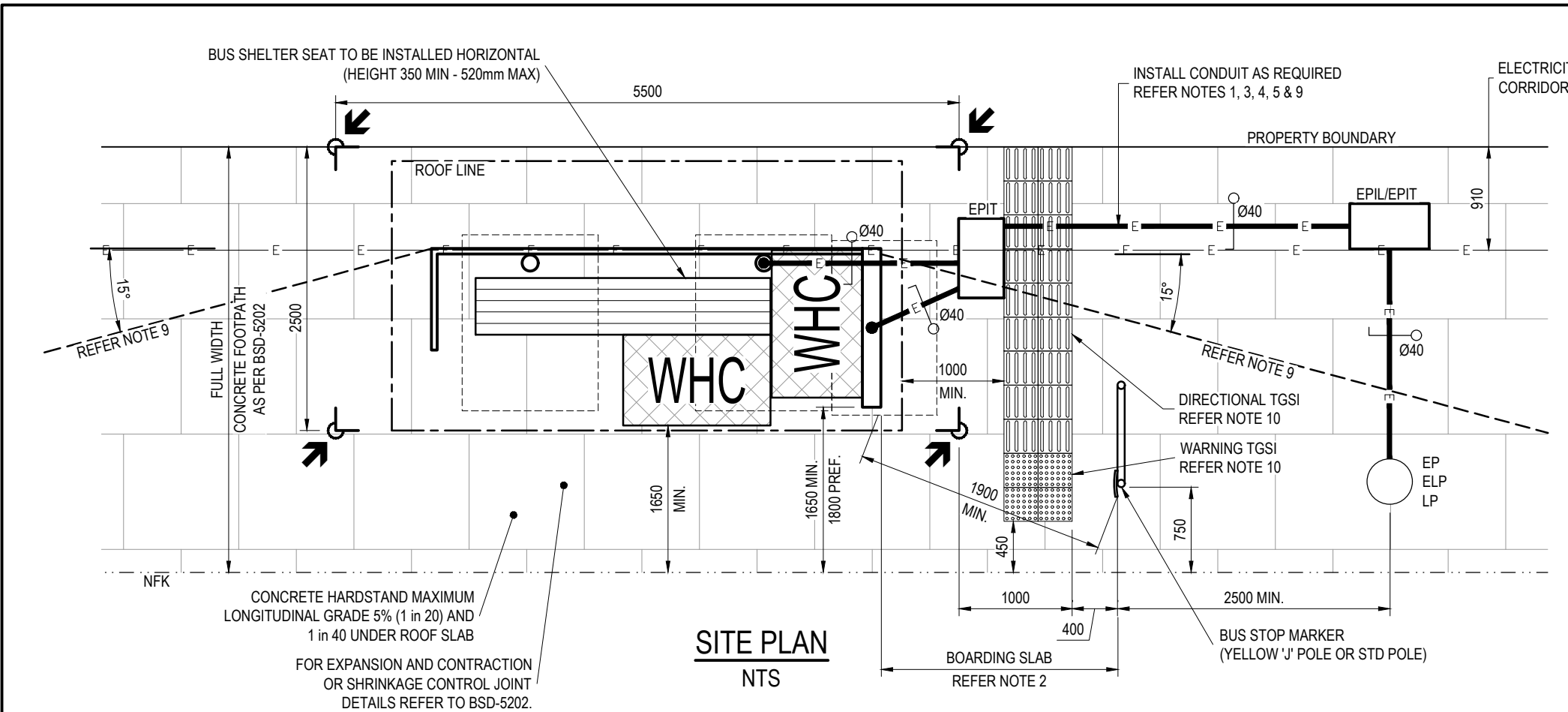


NOTES:

- TO BE READ IN CONJUNCTION WITH oOh!media DRAWINGS. oOh!media SHELTERS ARE INSTALLED AND MAINTAINED BY oOh!media UNDER A CONTRACT TO COUNCIL.
- 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 BRISBANE CITY COUNCIL PUBLIC TRANSPORT FACILITIES FOR DDA COMPLIANCE ADVICE.
- POWER SUPPLY MUST BE RATE 2. LIGHT BOX POWER SUPPLY MUST BE RATE 2 UNMETERED TARIF 21).
- 600 MIN. COVER TO CONDUITS.
- HARDSTANDS TO BE 150mm THICK BROOM FINISHED (FOR SLIP RESISTANCE) OR HONED PATTERNED FINISH TO BSD-5207 GRADE N32 CONCRETE. SL82 MESH PLACED CENTRALLY. LEVELS TO BE CONFIRMED PRIOR TO CONCRETE POUR.
- ALTERNATIVE SURFACE FINISHES (IE. EXPOSED AGGREGATE OR PAVERS) TO COMPLY WITH DISABILITY STANDARD FOR LUMINANCE CONTRAST AND/OR AESTHETICS FOR 'CITY SIGNATURE' REQUIREMENTS, AS REQUIRED.
- THE ALIGNMENT AND DEPTHS OF EXISTING SERVICES SHALL BE PROVEN ON SITE PRIOR TO ANY EXCAVATION. CONTACT "DIAL BEFORE YOU DIG" ON TEL. NO. 1100 FOR THE LOCATION OF SERVICE AUTHORITY ASSETS.
- POINT OF SUPPLY PRIORITY:
  - EP/ELP (ELECTRICITY POWER/LIGHT POLE)
  - EPIL (ELECTRICITY PILLAR)
  - EPIT (ELECTRICITY No.4 PIT)
  - LP (STREET LIGHT POLE)
- 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. PLANTINGS SHOULD NOT OBSTRUCT LINE OF SIGHT BETWEEN APPROACHING VEHICLES AND LIGHT BOX DISPLAY. (PUBLIC TRANSPORT FACILITIES TO APPROVE LAYOUT).
- TGSIs
  - TGSI MATERIALS, COLOURS AND INSTALLATION TO BSD-5218.
  - WHOLE TGSI TO BE PLACED AT END OF PAD. TGSIs TO BE CUT TO ENSURE THAT NO TGSI IS LESS THAN 150mm LONG.
  - TGSI TO EXTEND FULL WIDTH OF PATH (i.e. TO REAL PROPERTY BOUNDARY).
  - TACTILE MAT (POLYURETHANE OR SIMILAR) TGSIs MAY ONLY BE USED AT TEMPORARY BUS STOPS, AND FOR NO LONGER THAN 6 MONTHS.
- STORMWATER SOLUTION/DESIGN TO BE ASSESSED ON A SITE-BY-SITE BASIS.
- LONGITUDINAL GRADE TO MATCH ROAD.
- REFER INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY FOR LAYOUT AND ON-ROAD REQUIREMENTS.
- ALL DIMENSIONS ARE IN MILLIMETERS (U.N.O.).

LIGHTING NOTES:

- ILLUMINATION WITH THE BUS SHELTER TO COMPLY WITH *AS1158.3.1* - LIGHTING FOR ROADS AND PUBLIC SPACES - PART 3.1 - PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND DESIGN REQUIREMENTS SUB CATEGORY P6.
- THE LUMINAIRE 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.
- LUMINAIRE/LIGHT IS TO BE POSITIONED AT THE FRONT OF THE SHELTER FROM THE ROOF. LIGHTING IS TO NOT ADVERSELY IMPACT ON THE ADJACENT TRAFFIC.
- LUMINAIRE IS TO BE PRE-WIRED INTO THE SHELTER.
- 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.
- LIGHT SOURCE IS TO BE LED TECHNOLOGY WITH A CORRELATED COLOUR TEMPERATURE (CCT) OF 4000K AND A COLOUR RENDERING INDEX (CRI) Ra ≥80.
- LED LUMINAIRES OR LAMPS USED FOR BRISBANE CITY COUNCIL SHALL COMPLY WITH THE FOLLOWING MINIMUM ENERGY PERFORMANCE STANDARDS (MEPS) EFFICACY REQUIREMENTS. THE EFFICACY CALCULATION SHALL BE BASED ON INITIAL LUMINOUS FLUX MEASUREMENTS ACCORDING TO CIE S 025/E (OR IES LM-79).




LEGEND

- SETOUT POINTS (INCLUDING FINISHED SURFACE LEVELS) TO BE MARKED ON SITE FOR oOh!media TO CONSTRUCT FOOTINGS
- Ø40 uPVC ORANGE (HD) CONDUIT WITH CABLE PROTECTION COVER STRIP
- NFK NOMINAL FACE OF KERB
- HAZARD TACTILE GROUND SURFACE INDICATORS AS PER AS1428.4.1 (SEE NOTE 11)
- DIRECTIONAL TACTILE GROUND SURFACE INDICATORS AS PER AS1428.4.1 (SEE NOTE 11)
- WHC ALLOCATED WHEELCHAIR SPACE (1300x800)

TABLE 1: LED LUMINAIRES EFFICACY REQUIREMENTS

EFFICACY	LED LAMPS		LED LUMINAIRES (SMALL)	LED PLANAR, BATTENS & TROFFERS
	DIRECTIONAL & NON-DIRECTIONAL LAMPS	LINEAR LED (TUBE)	LUMINOUS FLUX ≥100 lm & <2,500 lm	
	≥65 lm/W (PRIOR TO 31/12/2019)	≥100 lm/W (PRIOR TO 31/12/2019)	≥65 lm/W (PRIOR TO 31/12/2019)	≥90 lm/W (PRIOR TO 31/12/2019)
	≥85 lm/W (FROM 01/01/2020)	≥110 lm/W (FROM 01/01/2020)	≥85 lm/W (FROM 01/01/2020)	≥110 lm/W (FROM 2020)

DRAWING AUTHORISED FOR PUBLICATION P. COTTON SIGNATURE ON ORIGINAL DATED 21/03/06 R.P.E.Q. 2 5 4 6				DESIGN	DBS [City Design]	DATE	May '04			<b>BRISBANE CITY COUNCIL STANDARD DRAWING</b>	
C	Dwg Title & Note 1 Amended (Adshel to oOh!media) 'Shelter Lighting Requirements Add.	JAN '19	APR '19	DRAWN	MAB [City Design]	DATE	May '04				
B	Dimensions Corrected, Note 10 Updated, Notes 11-13 Added	JUN '18	JUL '18	CHECKED	DJL [City Assests]	DATE	Nov '05				
A	Drawing Converted from UMS Series April 2014	APR '14	APR '14	DRAWING FILENAME	BSD-2108 (C) oOh!media 'Boulevard' bus shelter.dwg	ASSOCIATED PLANS	SUPERSEDES UMS-276				
PRINCIPAL ENGINEER STRATEGIC INFRASTRUCTURE MANGEMENT				oOh!media 'BOULEVARD' BUS SHELTER				SCALE NOT TO SCALE		DWG No. BSD-2108	
AMENDMENT				ORIGINAL SIZE A3				REVISION C			