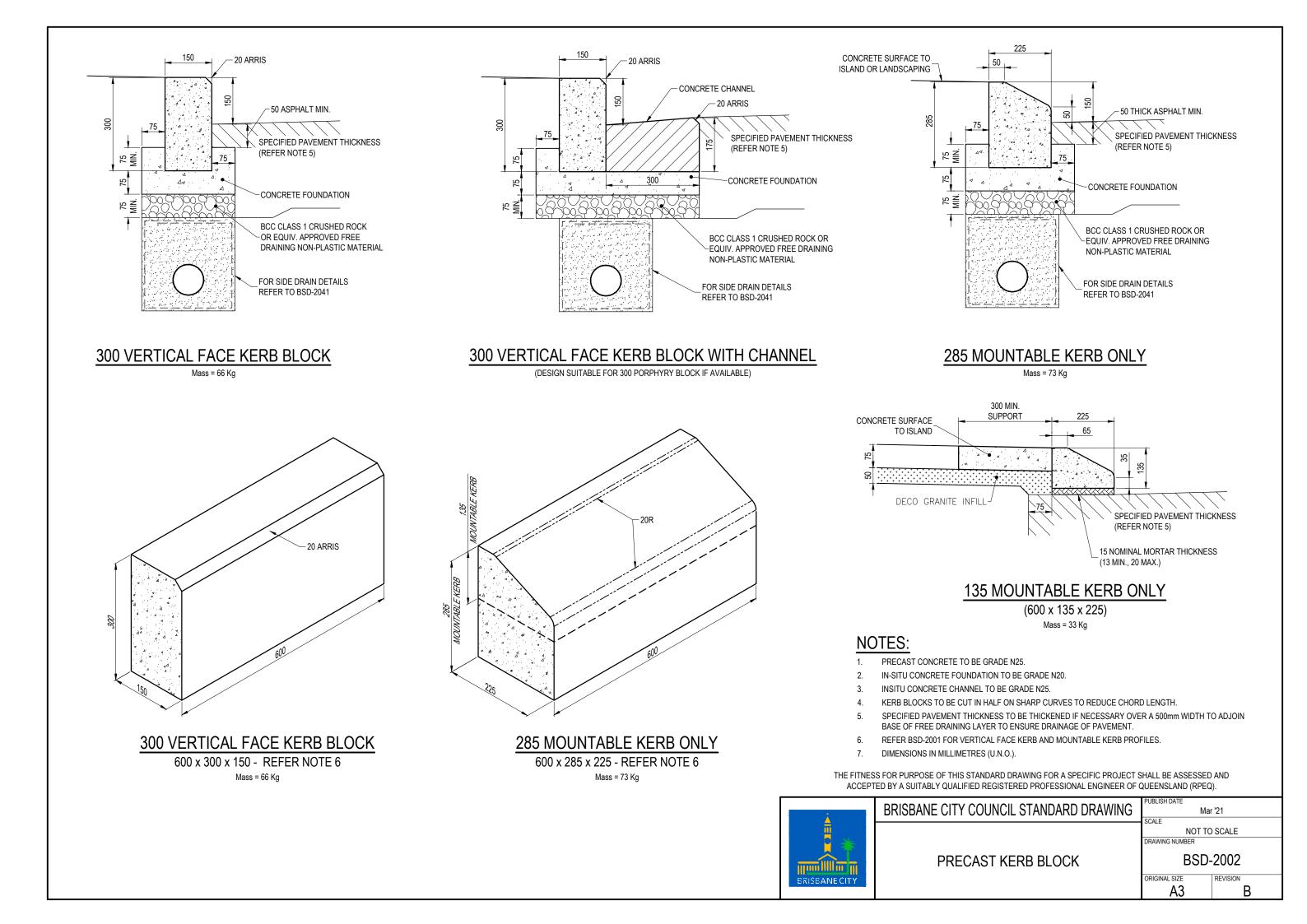
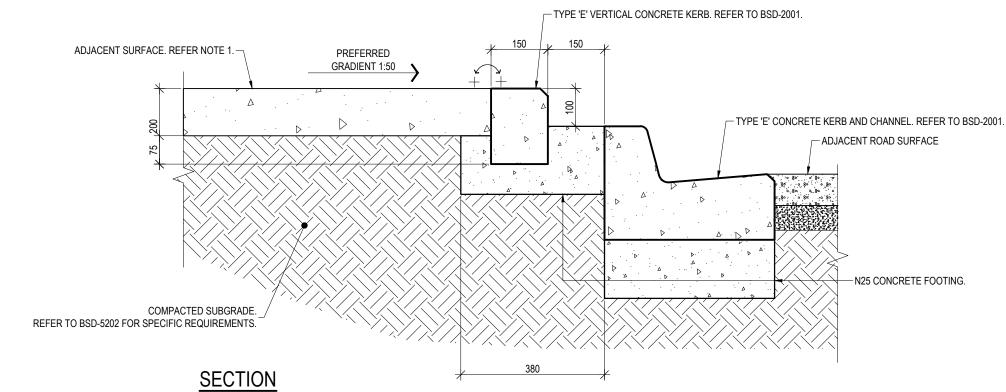


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GENERAL NOTES

- 1. REFER TO CHAPTER 3 AND CHAPTER 5 THE INFRASTRUCTURE DESIGN PLANNING POLICY (IDPSP) FOR REQUIRED FOOTPATH SURFACE FINISH.
- 2. REFER TO BSD-5202 FOR STANDARD CONCRETE FOOTPATH DETAILS AND SPECIFICATIONS.
- 3. REFER TO BSD-5214 FOR ASPHALT PATHWAY DETAILS AND SPECIFICATION.
- 4. DOUBLE KERB TO BE USED ONLY WHERE CROSSFALL FROM PROPERTY BOUNDARY TO STANDARD KERB IS GREATER THAN 1:40. APPROVAL FROM BRISBANE CITY COUNCIL TO BE OBTAINED PRIOR TO INSTALLATION.
- 5. ALL DIMENSIONS IN MILLIMETERS (UNO).



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

_ L												
F						DRAWING AUTHORISED FOR PUBLICATION P.COTTON SIGNATURE ON ORIGINAL	DESIGN	BAS	DATE	JUN '10		BRISBANE CIT
┟	0	Notes Reference Updated to IDPSP, Note 4 Updated	JAN '19	APR '19	6 Apr	R.P.E.Q: 2 5 4 6	DRAWN	PRM	DATE	JUN '10	<u> </u>	
ł	B	Drawing Title Amended	JAN 19 JAN 16	JUL '16	API RPEQ 16110 '19 JUL '16	STRATEGIC ASSET MANAGEMENT DESIGN APPROVED	CHECKED	D.K. SIGNATURE ON ORIGINAL 28-07-10	DATE	JUN '10	j 🕴 📜 🏄 🗌	DOUB
ł	А	Drawing Converted from UMS Series April 2014	APR '14	APR '14	APR '14	V.MARTIN SIGNATURE ON ORIGINAL DATED 06/9/10	DRAWING FILENAME	BSD-2003 (C) Double kerb -	Asphaltic for	otpath only.dwg	The second se	ASPHALT FC
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N25 CONCRETE FOOTING.

TY COUNCIL STANDARD DRAWING

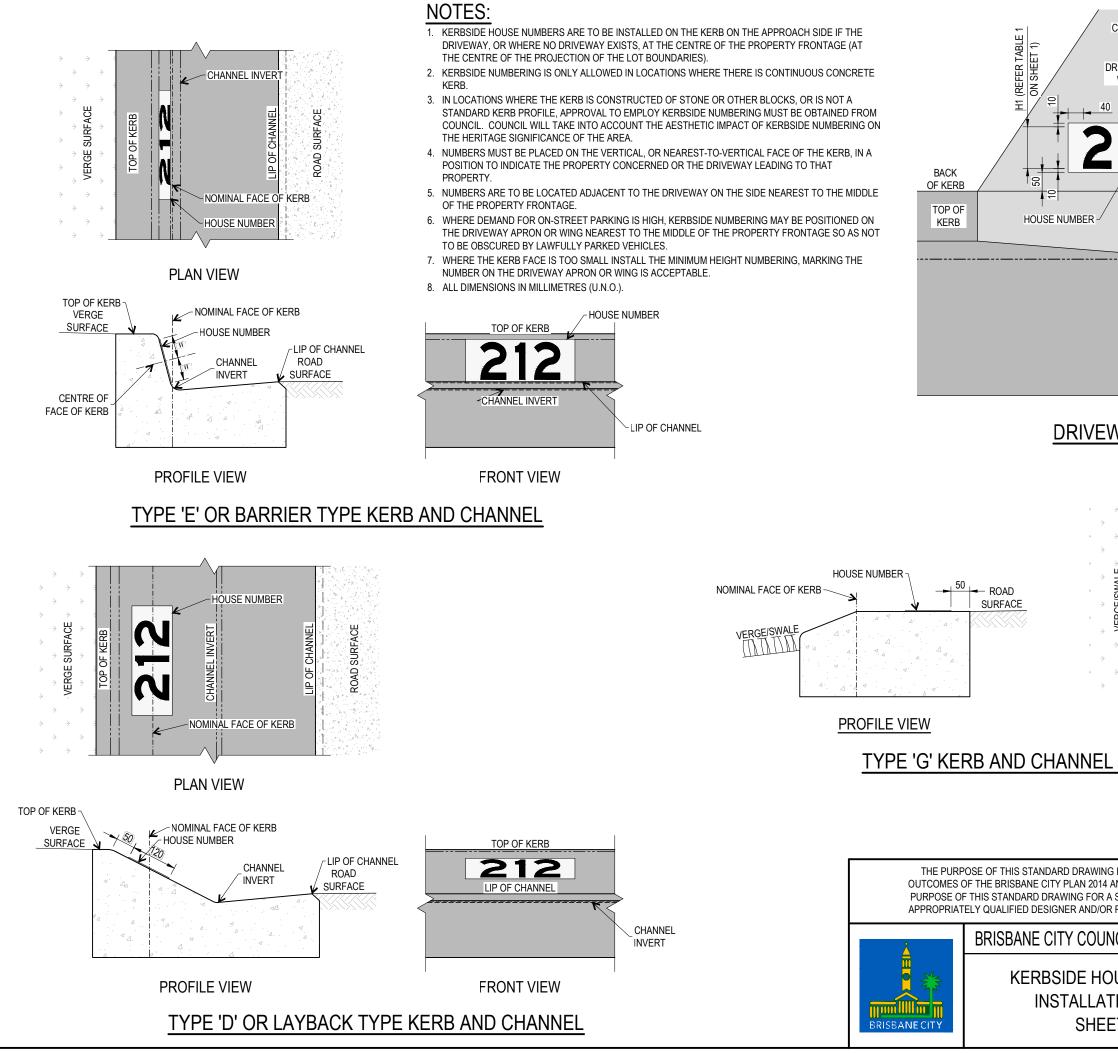
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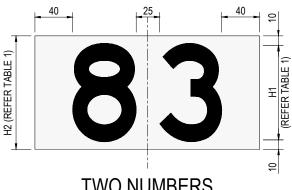
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CREASE LINE DRIVEWAY WING 40 40 40	RIVEWAY	
P12	KERB	
LIP OF CHANNEL		
EWAY APRON/WING		
212	ROAD FACE OF KERB ROAD SURFACE	IUMBER FACE OF KERB
EL OR EDGE STRIP		
ING IS TO PROVIDE TYPICAL DETAILS THAT S 14 AND ASSOCIATED PLANNING SCHEME PO R A SPECIFIC PROJECT SHOULD BE ASSESS OR REGISTERED PROFESSIONAL ENGINEER	LICIES. THE FITNES ED AND ACCEPTED B OF QUEENSLAND (F	S FOR BY AN
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40 40 ÷ (REFER TABLE 업 9 ONE NUMBER



TWO NUMBERS

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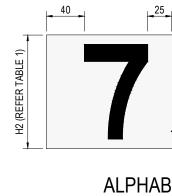
H1 (REFER TABLE 1)

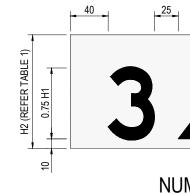
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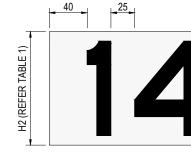
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H2 (REFER TABLE 1)









FOL



- 1. KERBSIDE HOUSE NUMBERS ARE TO BE INSTALLED ON THE KERB ON THE APPROACH SIDE IF THE DRIVEWAY, OR WHERE NO DRIVEWAY EXISTS, AT THE CENTRE OF THE PROPERTY FRONTAGE (AT THE CENTRE OF THE PROJECTION OF THE LOT BOUNDARIES).
- 2. REFER TABLE 1 FOR KERBSIDE HOUSE NUMBERS HEIGHT.
- 3. FONT TO COMPLY WITH SERIES 'D' AS PER AS1744
- 4. ALL NUMBERS AND LETTERS ARE TO APPEAR UPRIGHT WHEN VIEWED F ROM THE ROAD.
- 5. THE BACKGROUND IS TO BE RECTANGULAR, AND MUST NOT EXTEND MORE THAN 40mm FROM THE OUTER EDGE OF THE NUMBER OR LETTER.
- 6. NUMBERS ARE TO BE LOCATED CENTRALLY WITHIN THE BACKGROUND
- 7. WHERE A NUMBER PREFIX OR ALPHABETICAL SUFFIX IS REQUIRED (FOR EXAMPLE, 2/36, 24A), THE PREFIX OR SUFFIX MUST BE THREE-QUARTER THE HEIGHT OF THE MAIN NUMBER.
- 8. ALL ALPHABETICAL CHARACTERS MUST BE CAPITALS.
- 9. MATERIALS: WATERBORNE ROAD MARKING PAINT IN ACCORDANCE WITH AS4095.3 OR OTHER SUITABLE ROAD MARKING MATERIAL. LUMINESCENT MATERIAL IS PREFERRED.
- 10. MAINTENANCE AND RESPONSIBILITY:
- MAINTENANCE OF THE KERB NUMBER IS THE SOLE RESPONSIBILITY OF THE PROPERTY -OWNER.
- THE PROPERTY OWNER SHALL ENSURE THE CORRECT HOUSE NUMBER IS MARKED ON THE KERB.
- 12. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

TABLE 1: NUMBERING HEIGHT

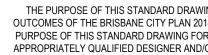
	NUMBERING HEIGHT					
NUMBERING LOCATION	DESIRABLE MINIM		MUM	MAXIMUM		
NUMBERING LOCATION	H1	H2	H1	H2	H1	H2
KERB FACE	100	120	80	100	110	130
DRIVEWAY APRON/WING	110	130	100	120	110	130



NUMBERS/LETTERS: BLACK TO N61 BLACK IN ACCORDANCE WITH AS2700.

THREE NUMBERS

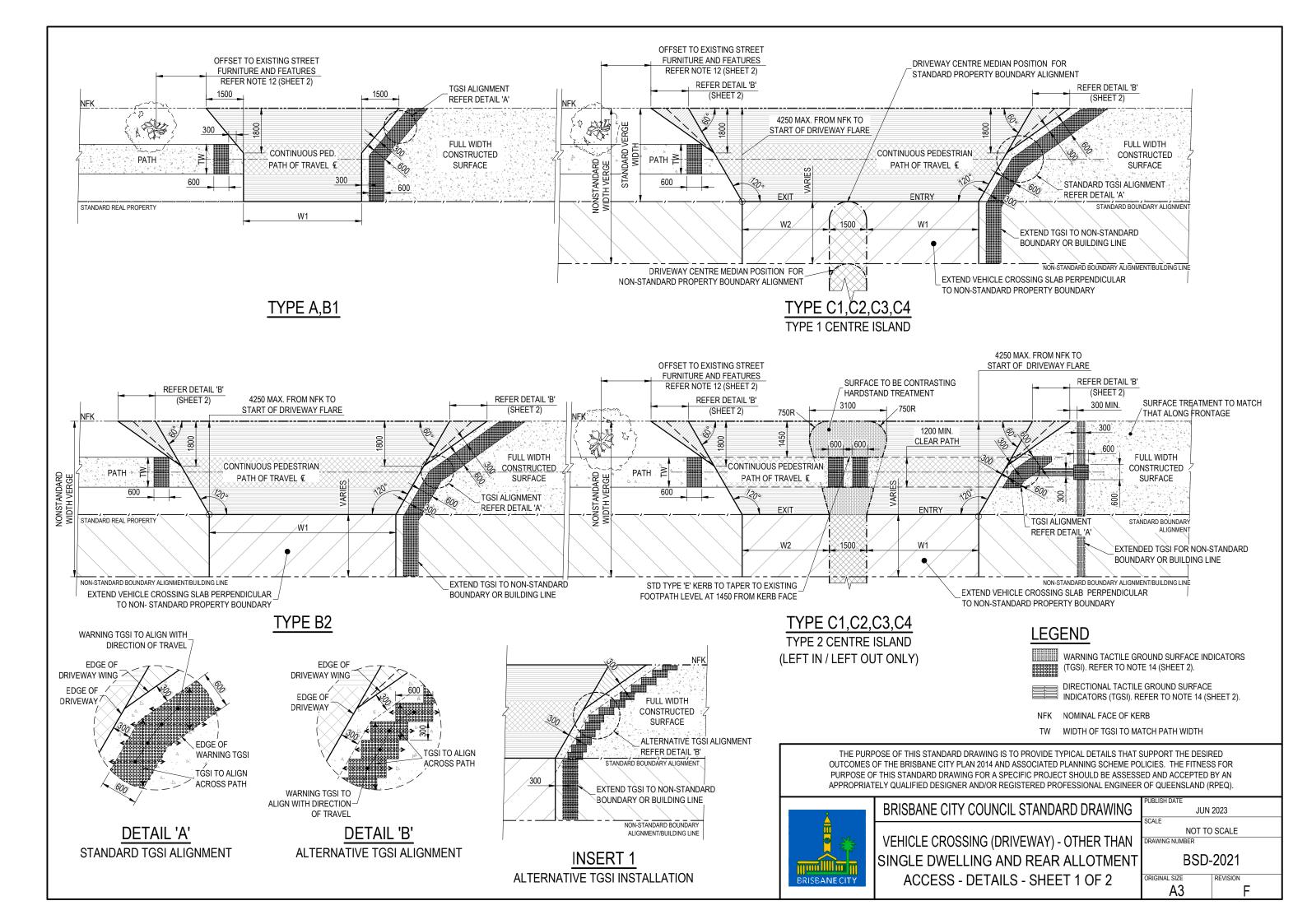
BACKGROUND: WHITE TO N11 PEARL GREY OR Y35 OFF WHITE IN ACCORDANCE WITH AS2700.

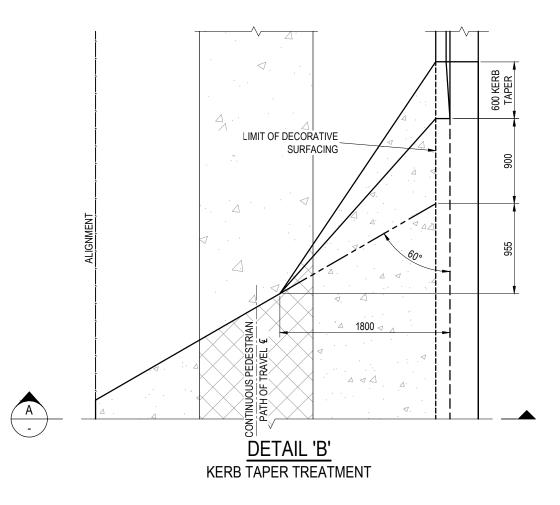


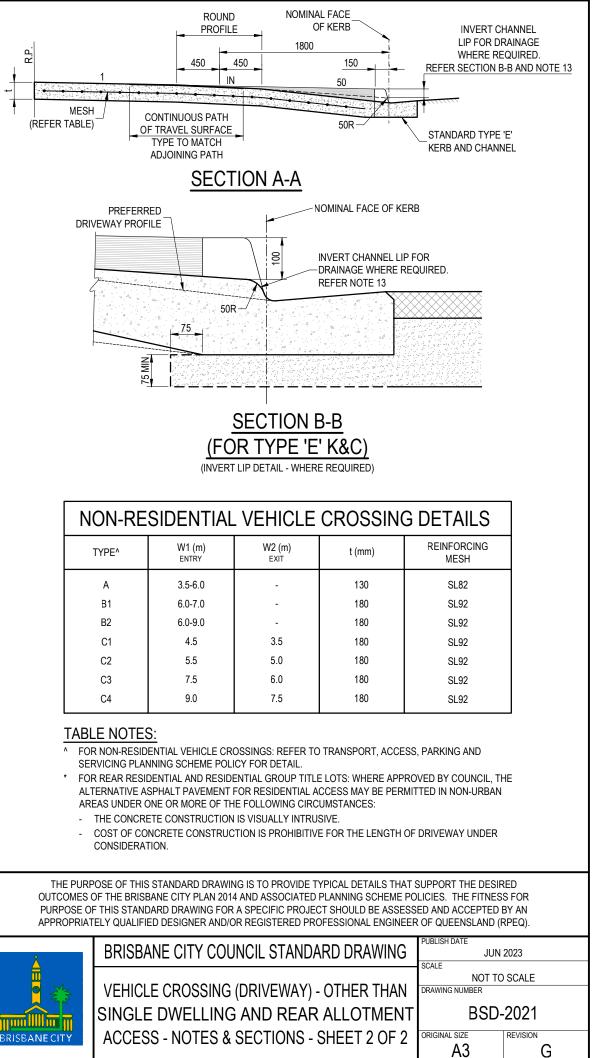


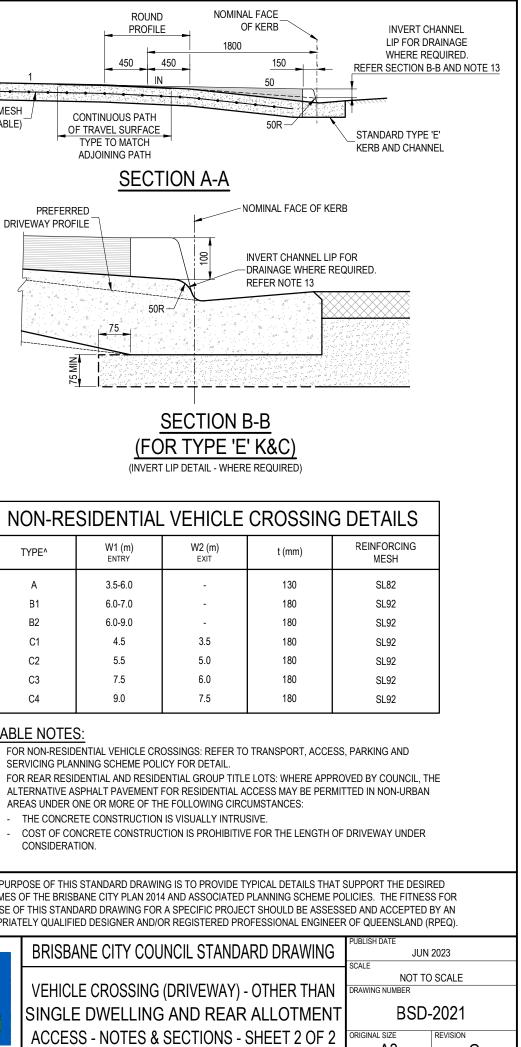
	- - -			
5 A	10 - 0.75 H1			
BETICAL SUFFIX				
/ 15	H (RIFER TABLE 1)			
IBER PREFIX	9			
- ²⁵ - - ²⁵ -				
.29	(REFER TABLE 1)			
JR NUMBERS	10			
NG IS TO PROVIDE TYPICAL DETAILS THAT 14 AND ASSOCIATED PLANNING SCHEME PC R A SPECIFIC PROJECT SHOULD BE ASSESS OR REGISTERED PROFESSIONAL ENGINEEF	LICIES. THE FITNESS FOR ED AND ACCEPTED BY AN			
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OUSE NUMBERING ER LAYOUTS	NOT TO SCALE DRAWING NUMBER BSD-2004			
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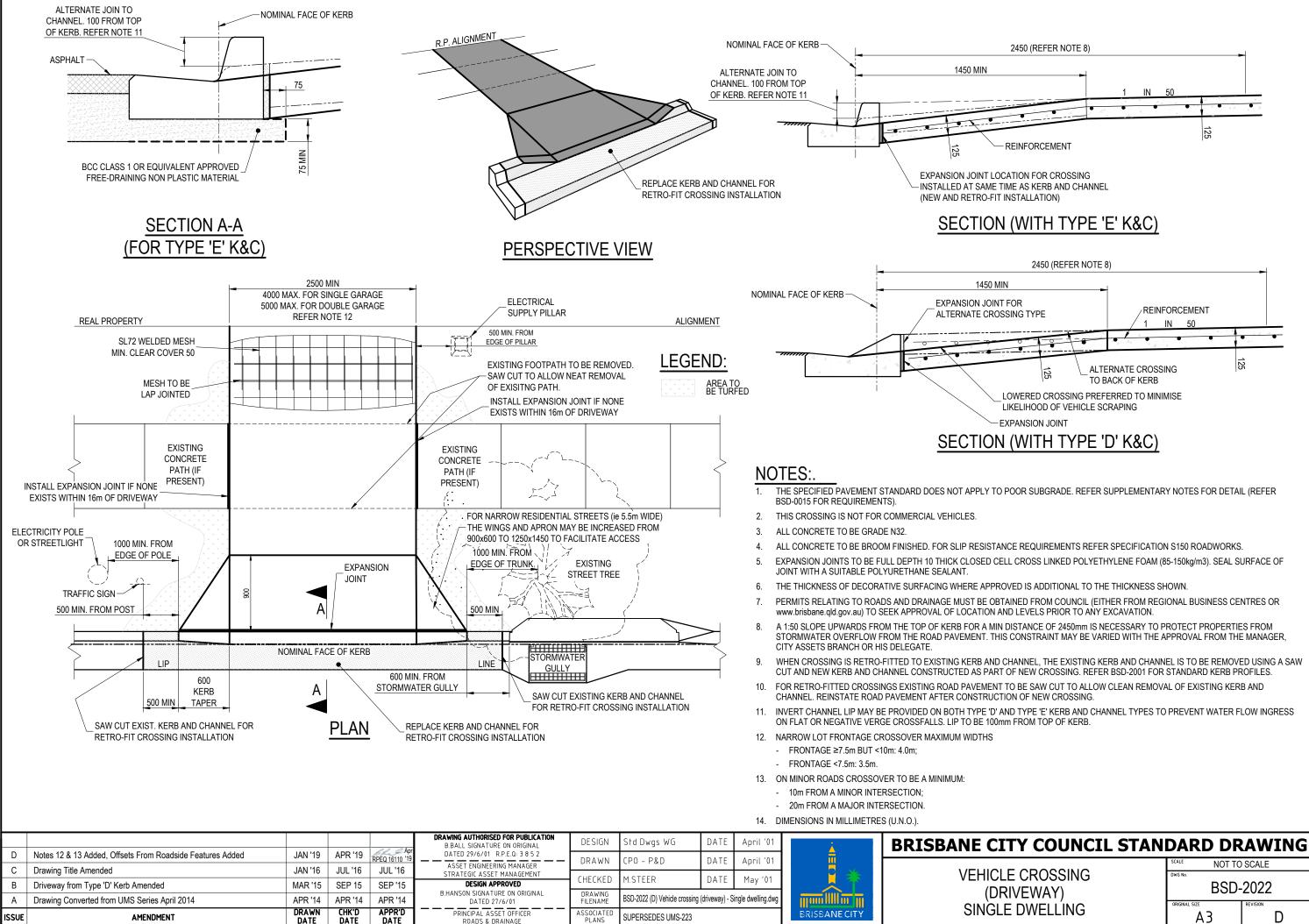


NON-RESIDENTIA				
TYPE^	W1 (m) ENTRY			
А	3.5-6.0			
B1	6.0-7.0			
B2	6.0-9.0			
C1	4.5			
C2	5.5			
C3	7.5			
C4	9.0			



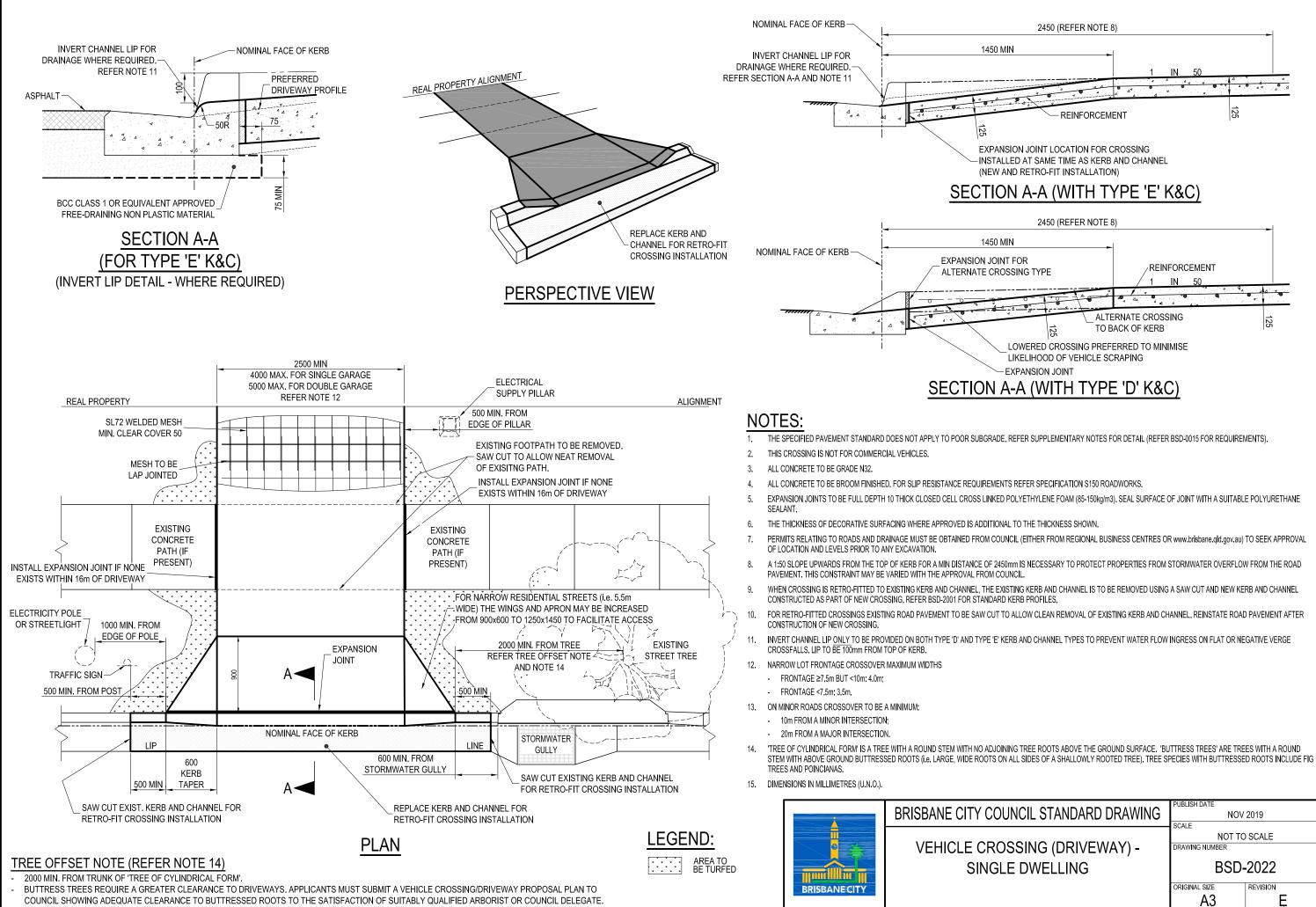
- THE SPECIFIED PAVEMENT STANDARD DOES NOT APPLY TO POOR SUBGRADE. REFER SUPPLEMENTARY NOTES (BSD-0019) FOR DETAIL.
- ALL CONCRETE TO BE GRADE N32. 2
- REINFORCEMENT AS PER TABLE, MIN. LAP 210MIN, MIN. CLEAR TOP COVER 50mm. 3.
- 4 ALL CONCRETE TO BE BROOM FINISHED FOR SLIP RESISTANCE REQUIREMENTS REFER REFERENCE SPECIFICATION FOR ENGINEERING WORKS S200 CONCRETE WORK
- THE THICKNESS OF DECORATIVE SURFACING WHERE APPROVED IS ADDITIONAL 5. TO THE CONCRETE THICKNESS SPECIFIED.
- ALL EXISTING ASPHALT OR CONCRETE PAVEMENTS TO BE SAW CUT PRIOR TO 6. ALLOW FOR NEAT REMOVAL AND REINSTATEMENT.
- ROADWAY MATERIAL EXCAVATED ALONG THE FRONT OF THE CROSSING MUST BE 7. REINSTATED TO ORIGINAL PAVEMENT STANDARD - ADDITIONALLY, A BASE 75 THICK DRAINAGE LAYER CONNECTED TO THE SIDE DRAIN IS REQUIRED.
- PERMITS RELATING TO ROADS AND FOOTPATH MUST BE OBTAINED FROM 8. COUNCIL (EITHER FROM REGIONAL BUSINESS CENTRES OR www.brisbane.qld.gov.au) SPECIFYING CROSSING TYPE, LOCATION, LEVELS AND DIMENSIONS PRIOR TO ANY EXCAVATION.
- TGSI AT DRIVEWAY CROSSING POINT TO BE INSTALLED SO AS TO ALIGN USERS 9 ON CONTINUOUS PATH OF TRAVEL AND TO BSD-5218.
- MAX. CROSSFALL ON VERGE/PATH SHOULD NOT BE EXCEEDED. 10.
- CLEAR PATH WIDTH TO BE MAINTAINED ACROSS DRIVEWAY. 11
- OFFSETS TO EXISTING STREET FURNITURE AND FEATURES SUCH AS STREET 12. TREES, STORMWATER GULLIES, ELECTRICITY INFRASTRUCTURE AND TRAFFIC SIGNS AS PER BSD-2022.

- 13. INVERT CHANNEL LIP ONLY TO BE PROVIDED ON BOTH TYPE 'D' AND TYPE 'E' KERB AND CHANNEL TYPES TO PREVENT WATER FLOW INGRESS ON FLAT OR NEGATIVE VERGE CROSSFALLS. LIP TO BE 100mm FROM TOP OF KERB
- 14. TGSI TYPE, COLOUR AND INSTALLATION AS PER BSD-5218. TGSI TO COMPLY WITH AS1428.4.1.
- 15. DESIGN STANDARDS FOR CROSSINGS SUCH AS LOCATION (DISTANCE FROM INTERSECTIONS AND TRAFFIC MANAGEMENT DEVICES) AND SITE DISTANCE REQUIREMENTS AS PER THE TRANSPORT, ACCESS, PARKING AND SERVICING PLANNING SCHEME POLICY.
- 16. MAINTENANCE OF VEHICLE CROSSINGS (DRIVEWAYS) IS THE RESPONSIBILITY OF THE PROPERTY OWNER
- REDUNDANT VEHICLE CROSSINGS (DRIVEWAYS) ARE TO BE COMPLETELY 17. REMOVED AND THE ADJACENT KERB AND CHANNEL AND VERGE IS TO REINSTATED TO MATCH EXISTING
- WIDTH AND MATERIALS FOR ACCESS REQUIREMENTS TO REAR RESIDENTIAL 18. LOTS AND RESIDENTIAL GROUP TITLE LOTS AS PER THE TRANSPORT, ACCESS, PARKING AND SERVICING PLANNING SCHEME POLICY
- TO REFLECT PEDESTRIAN PRIORITY OVER VEHICLES, THE ADJOINING PATH 19. SURFACE IS TO EXTEND ACROSS THE DRIVEWAY/VEHICLE CROSSOVER. EXCEPT WHERE PATH SURFACE IS ASPHALT OR SEGMENTAL/DECORATIVE PAVERS IN WHICH CASE THE DRIVEWAY AND VEHICLE CROSSOVER MUST BE CONSTRUCTED OF CONCRETE.
- 20. DIMENSIONS IN MILLIMETRES (U.N.O.).

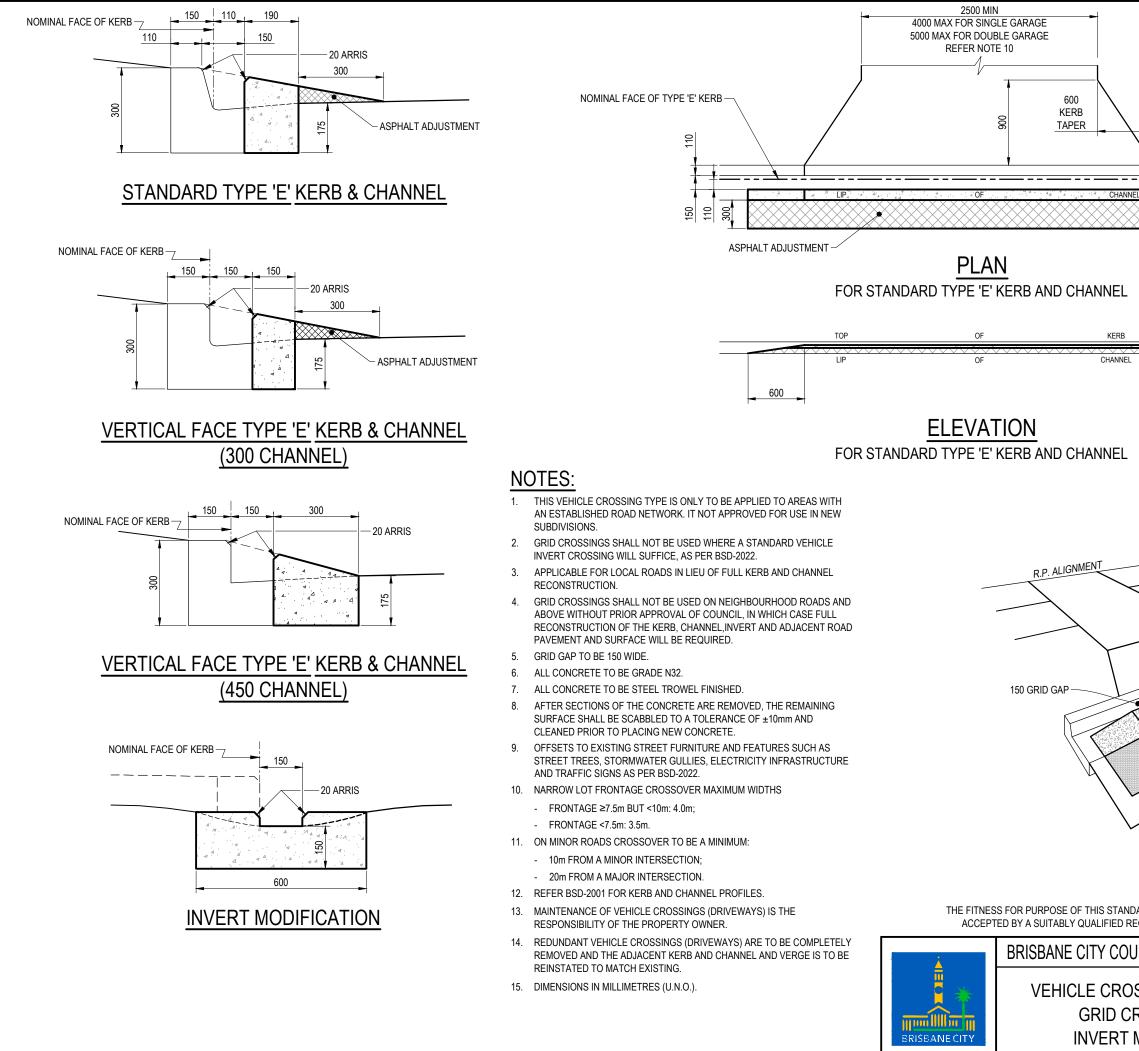


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DWELLÍNG	

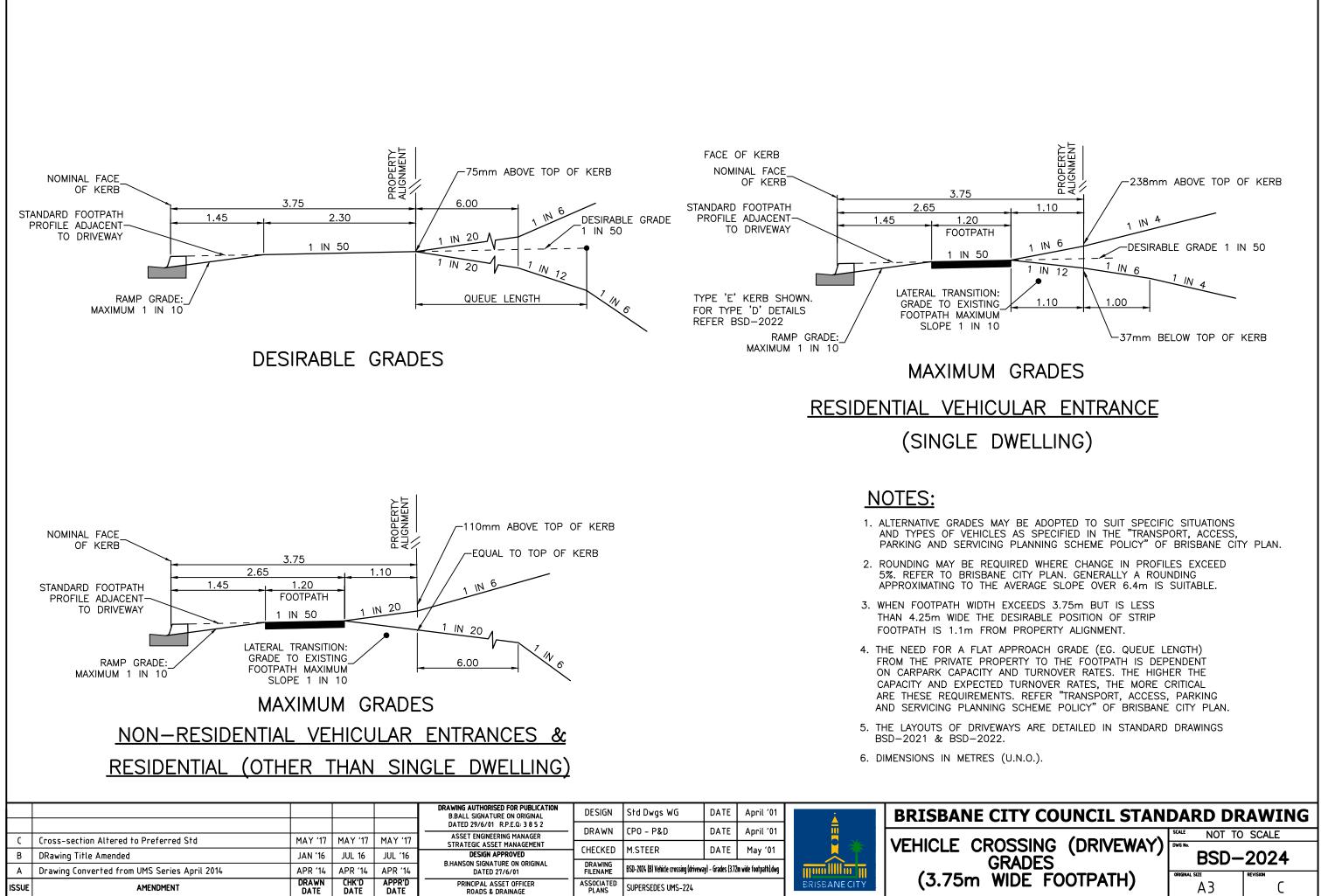
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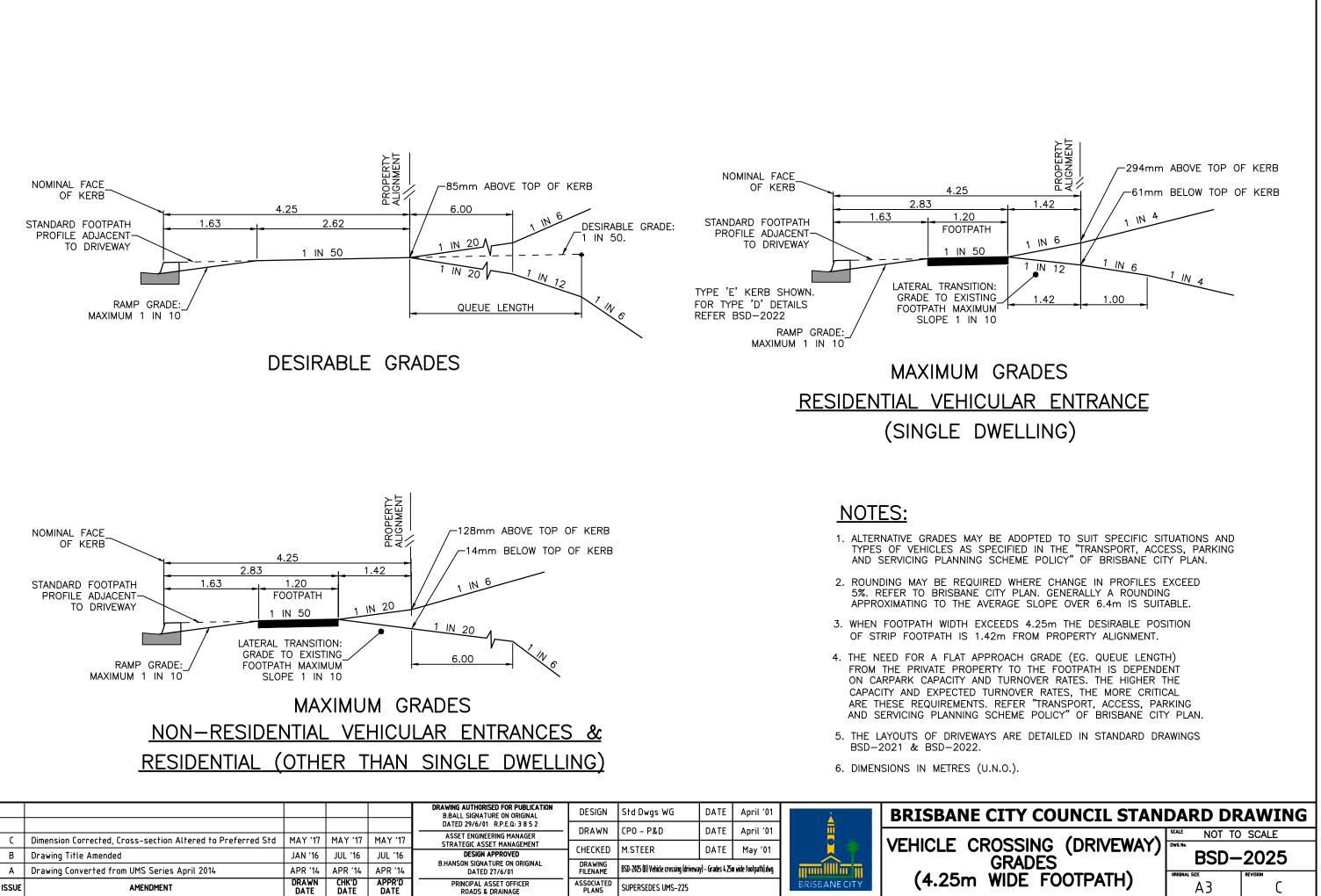


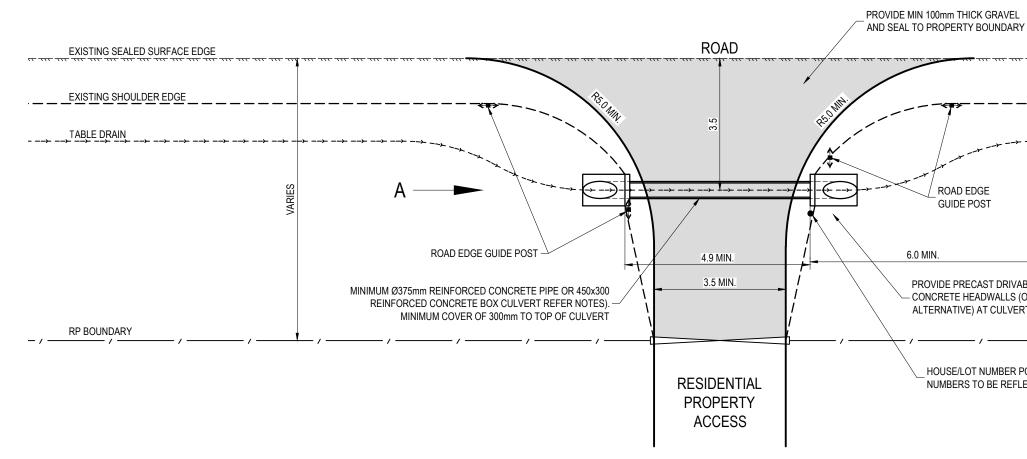
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E DWELLING	BSD-2022		
	ORIGINAL SIZE	REVISION	
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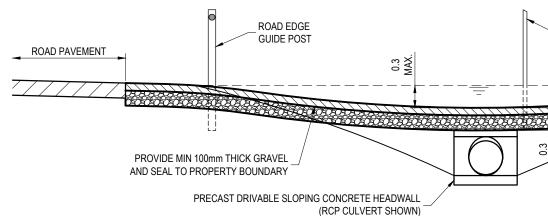
OFFSET TO EXISTING STREET FURNITURE AND FEATURES REFER NOTE 9 BACK OF KERE	<u> </u>		
600			
	\bigcirc	>	
	ASPHALT ADJUSTMENT		
GRID CR	OSSING		
PICTORIA			
DARD DRAWING FOR A SPECIFIC PROJECT S REGISTERED PROFESSIONAL ENGINEER OF C	HALL BE ASSESSED QUEENSLAND (RPEQ PUBLISH DATE	AND).	
UNCIL STANDARD DRAWING	Mar SCALE NOT TO		
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PLAN VIEW



END ELEVATION 'A'

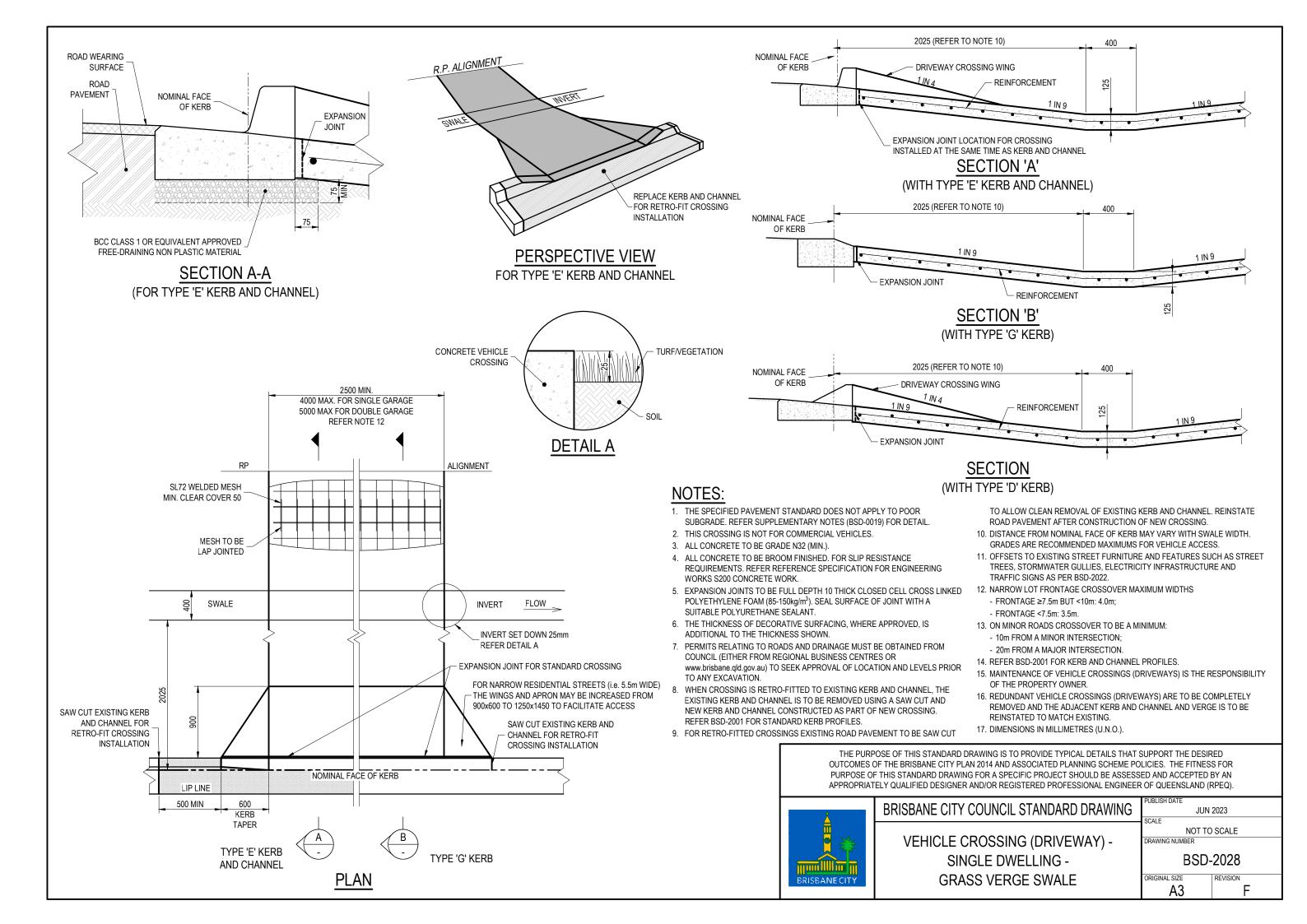
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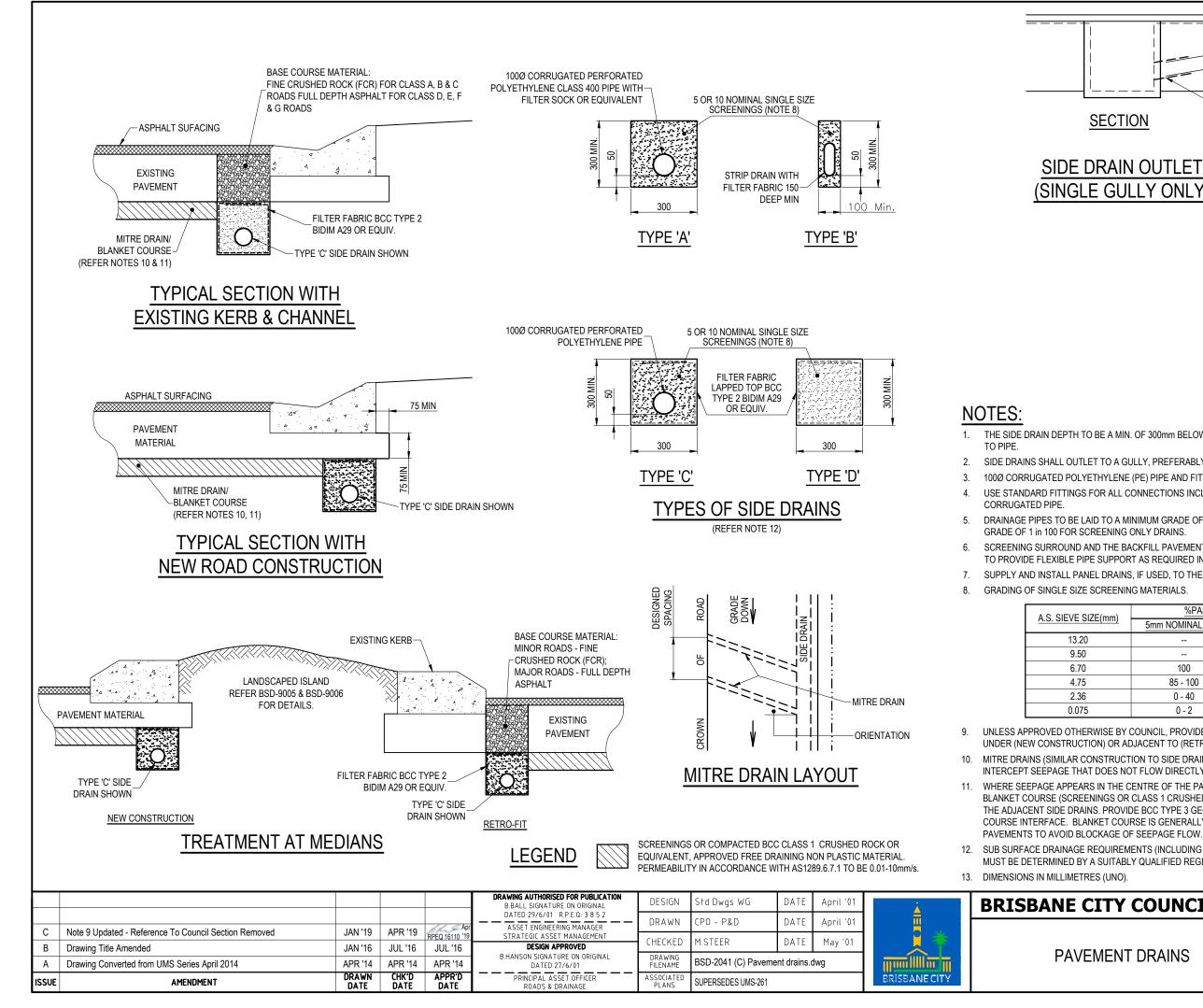
- 1. PIPE OR BOX CULVERT CROSSINGS ARE NOT TO BE INSTALLED ON ROADS THAT FALL TO THE SUBJECT PROPERTY OR WHERE STORM WATER CANNOT BE DIRECTED TO A NATURAL WATER COURSE OR DRAINAGE EASEMENT.
- 2. PROVIDE ROCK, CONCRETE OR STABILISED TURF PROTECTION TO TABLE DRAINS AND OUTLETS WHERE PRONE TO SCOUR.
- 3. MINIMUM GRADE THROUGH PIPE IS TO BE 1%.
- 4. ROAD EDGE GUIDE POSTS TO BE LOCATED AT PIPE ENDS AND BE IN ACCORDANCE WITH BSD-7121.
- 5. WHERE PIPE IS USED FOR CULVERT, PIPE TO BE MINIMUM CLASS 3 REINFORCED CONCRETE PIPE (FIBRE OR STEEL REINFORCED).
- 6. MINIMUM HYDRAULIC CAPACITY OF PIPE AND ACCESS TO MATCH THE CAPACITY OF THE TABLE DRAIN. THIS MAY REQUIRE THE USE OF MULTIPLE BARRELS.
- 7. CULVERT INVERTS TO MATCH TABLE DRAIN INVERTS.
- 8. REDUNDANT PROPERTY ACCESSES ARE TO BE COMPLETELY REMOVED AND THE ADJACENT ROAD PAVEMENT, KERB AND CHANNEL (IF PRESENT) AND VERGE (INCLUDING TABLE DRAIN) IS TO BE REINSTATED TO MATCH EXISTING.
- 9. ALL DIMENSIONS IN METRES (U.N.O.).

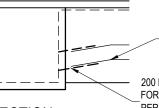
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DEDGE E POST) BE LOCATED AND OW SMOOTH FLOW DUGH CULVERT		
RECAST DRIVABLE HEADWALLS (OR IVE) AT CULVERT E	APPROVED	/		
LOT NUMBER POS RS TO BE REFLEC				
COAD EDGE GUIDE POST		UNDARY -		
		RP BOUND		
NIM		İ		
ARD DRAWING FO	OR A SPECIFIC PROJECT S	HALL BE ASSESSE) AND	
EGISTERED PROFE	ESSIONAL ENGINEER OF (QUEENSLAND (RPEG	λ).	
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LE DRAINS		ORIGINAL SIZE	REVISION	







200 LONG uPVC STUB. FOR TYPE 'D', ADD 1000 LONG CORRUGATED PERFORATED POLYETHYLENE PIPE WITH FILTER SOCK OR END CAP

100 FALL

SIDE DRAIN OUTLET (SINGLE GULLY ONLY)

THE SIDE DRAIN DEPTH TO BE A MIN. OF 300mm BELOW THE SUBGRADE. PROVIDE A MIN. 300 COVER

SIDE DRAINS SHALL OUTLET TO A GULLY. PREFERABLY. OR STORMWATER PIPE.

100Ø CORRUGATED POLYETHYLENE (PE) PIPE AND FITTINGS TO BE CLASS 400 TO AS 2439.

USE STANDARD FITTINGS FOR ALL CONNECTIONS INCLUDING THE JOINING OF LENGTHS OF

DRAINAGE PIPES TO BE LAID TO A MINIMUM GRADE OF 1 in 250 FOR PIPE DRAINS AND TO A MINIMUM

SCREENING SURROUND AND THE BACKFILL PAVEMENT MATERIAL MUST BE ADEQUATELY COMPACTED TO PROVIDE FLEXIBLE PIPE SUPPORT AS REQUIRED IN ACCORDANCE WITH AS 2566.

SUPPLY AND INSTALL PANEL DRAINS, IF USED, TO THE MANUFACTURERS SPECIFICATIONS.

E(mm)	%PASSING (% BY WEIGHT)		
<u>=(11111)</u>	5mm NOMINAL SIZE	10mm NOMINAL SIZE	
		100	
		85 - 100	
	100		
	85 - 100	0 - 20	
	0 - 40	0 - 5	
	0 - 2	0 - 2	

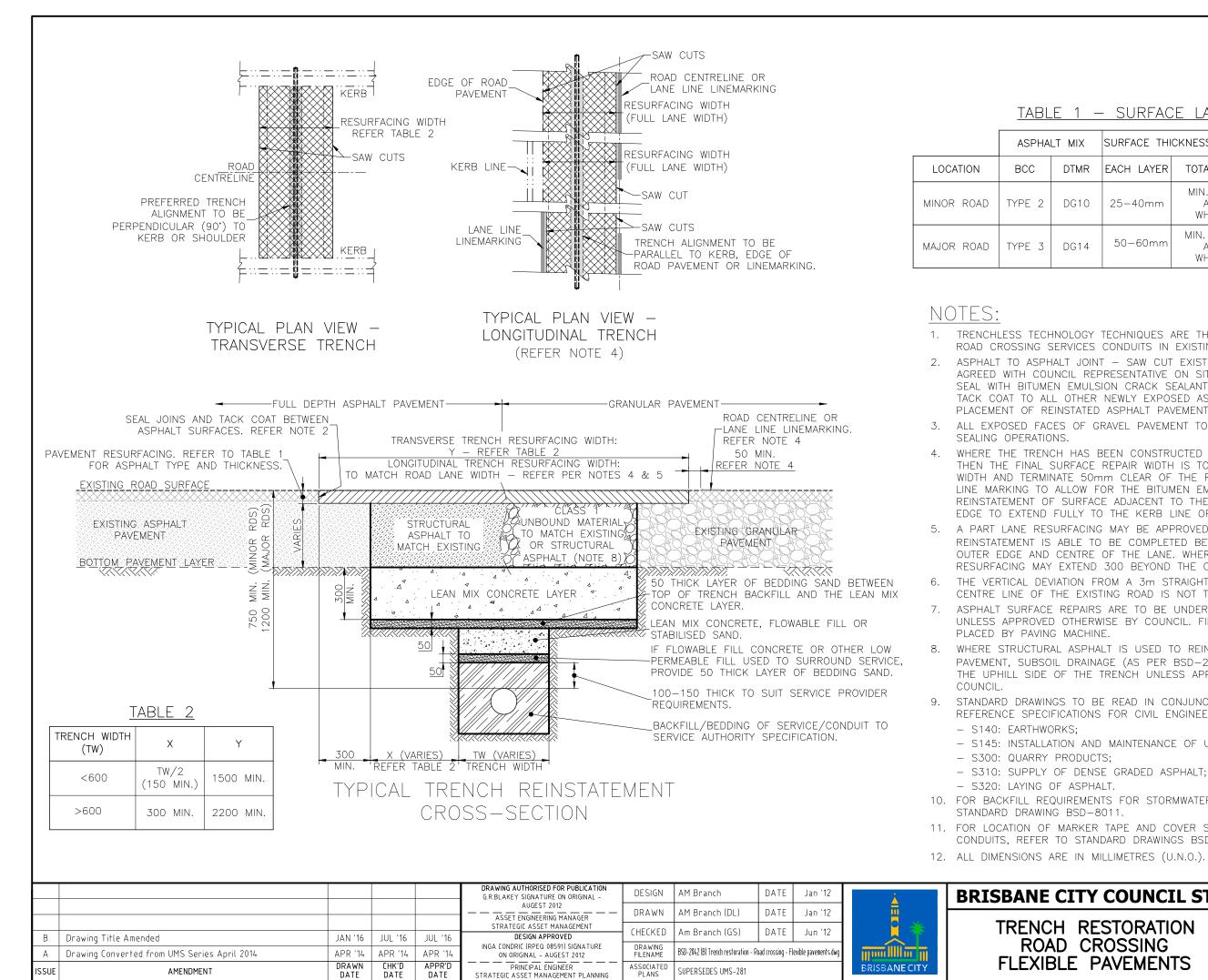
UNLESS APPROVED OTHERWISE BY COUNCIL, PROVIDE SIDE DRAINS ON BOTH SIDES OF THE ROAD UNDER (NEW CONSTRUCTION) OR ADJACENT TO (RETROFIT) THE KERB AND CHANNEL

MITRE DRAINS (SIMILAR CONSTRUCTION TO SIDE DRAINS) ARE REQUIRED ACROSS THE ROAD TO INTERCEPT SEEPAGE THAT DOES NOT FLOW DIRECTLY TO THE SIDE DRAIN.

WHERE SEEPAGE APPEARS IN THE CENTRE OF THE PAVEMENT, PROVIDE 75 THICK FULL WIDTH BLANKET COURSE (SCREENINGS OR CLASS 1 CRUSHED ROCK) TO INTERCEPT SEEPAGE AND DRAIN TO THE ADJACENT SIDE DRAINS. PROVIDE BCC TYPE 3 GEOTEXTILE FABRIC AT THE SUBGRADE/BLANKET COURSE INTERFACE. BLANKET COURSE IS GENERALLY REQUIRED UNDERNEATH FULL DEPTH ASPHALT

12. SUB SURFACE DRAINAGE REQUIREMENTS (INCLUDING TYPE, LOCATION, SPACING AND ORIENTATION) MUST BE DETERMINED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER.

TY COUNCIL STANDARD DRAWING			
IENT DRAINS	SCALE NOT TO	SCALE	
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	ORIGINAL SIZE		



SUPERSEDES UMS-281

ISSUE

AMENDMENT

DATE

DATE

ЛIX	SURFACE THI	CKNESS (EXCLUDING PAVEMENT
TMR	EACH LAYER	TOTAL SURFACE THICKNESS
G10	25–40mm	MIN. 50mm OR ADJACENT ASPHALT THICKNESS, WHICHEVER IS GREATER
G14	50-60mm	MIN. 100mm OR ADJACENT ASPHALT THICKNESS, WHICHEVER IS GREATER

TABLE 1 – SURFACE LAYER

TRENCHLESS TECHNOLOGY TECHNIQUES ARE THE PREFERRED METHOD FOR ROAD CROSSING SERVICES CONDUITS IN EXISTING ROADWAYS.

ASPHALT TO ASPHALT JOINT - SAW CUT EXISTING AC WHERE SHOWN OR AS AGREED WITH COUNCIL REPRESENTATIVE ON SITE TO PROVIDE CLEAN CUT AND SEAL WITH BITUMEN EMULSION CRACK SEALANT. APPLY BITUMEN EMULSION TACK COAT TO ALL OTHER NEWLY EXPOSED ASPHALT SURFACES PRIOR TO PLACEMENT OF REINSTATED ASPHALT PAVEMENT OR SURFACE. ALL EXPOSED FACES OF GRAVEL PAVEMENT TO BE TO BE PRIMED DURING

WHERE THE TRENCH HAS BEEN CONSTRUCTED LONGITUDINALLY IN THE ROAD, THEN THE FINAL SURFACE REPAIR WIDTH IS TO MATCH THE EXISTING LANE WIDTH AND TERMINATE 50mm CLEAR OF THE ROAD CENTRELINE OR LANE LINE LINE MARKING TO ALLOW FOR THE BITUMEN EMULSION JOINT SEAL. REINSTATEMENT OF SURFACE ADJACENT TO THE KERB OR ROAD PAVEMENT EDGE TO EXTEND FULLY TO THE KERB LINE OR EDGE OF PAVEMENT. A PART LANE RESURFACING MAY BE APPROVED WHERE THE FULL REINSTATEMENT IS ABLE TO BE COMPLETED BETWEEN THE INNER AND/OR OUTER EDGE AND CENTRE OF THE LANE. WHERE THIS IS TO OCCUR THE RESURFACING MAY EXTEND 300 BEYOND THE CENTRE OF THE LANE. THE VERTICAL DEVIATION FROM A 3m STRAIGHT EDGE PARALLEL TO THE CENTRE LINE OF THE EXISTING ROAD IS NOT TO EXCEED 5mm. ASPHALT SURFACE REPAIRS ARE TO BE UNDERTAKEN WITHIN 24 HOURS UNLESS APPROVED OTHERWISE BY COUNCIL. FINAL ASPHALT LAYERS TO BE

WHERE STRUCTURAL ASPHALT IS USED TO REINSTATE EXISTING GRANULAR PAVEMENT, SUBSOIL DRAINAGE (AS PER BSD-2041) IS TO BE INSTALLED ON THE UPHILL SIDE OF THE TRENCH UNLESS APPROVED OTHERWISE BY

STANDARD DRAWINGS TO BE READ IN CONJUNCTION WITH THE FOLLOWING REFERENCE SPECIFICATIONS FOR CIVIL ENGINEERING WORKS:

- S145: INSTALLATION AND MAINTENANCE OF UTILITY SERVICES;

10. FOR BACKFILL REQUIREMENTS FOR STORMWATER DRAINAGE PIPES, REFER TO

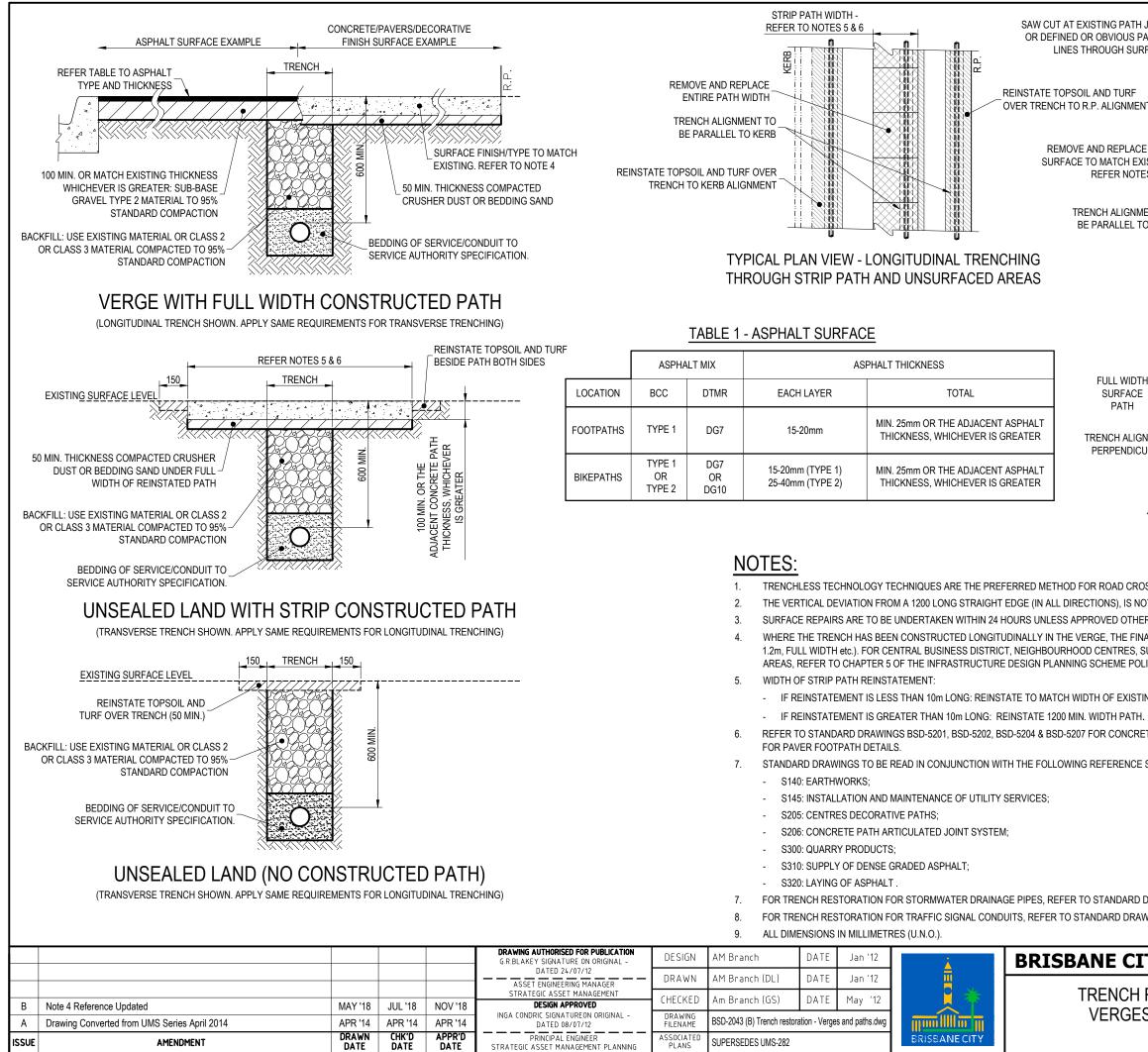
11. FOR LOCATION OF MARKER TAPE AND COVER STRIP FOR TRAFFIC SIGNAL CONDUITS, REFER TO STANDARD DRAWINGS BSD-4015 & BSD-4016.

BRISBANE CITY COUNCIL STANDARD DRAWING

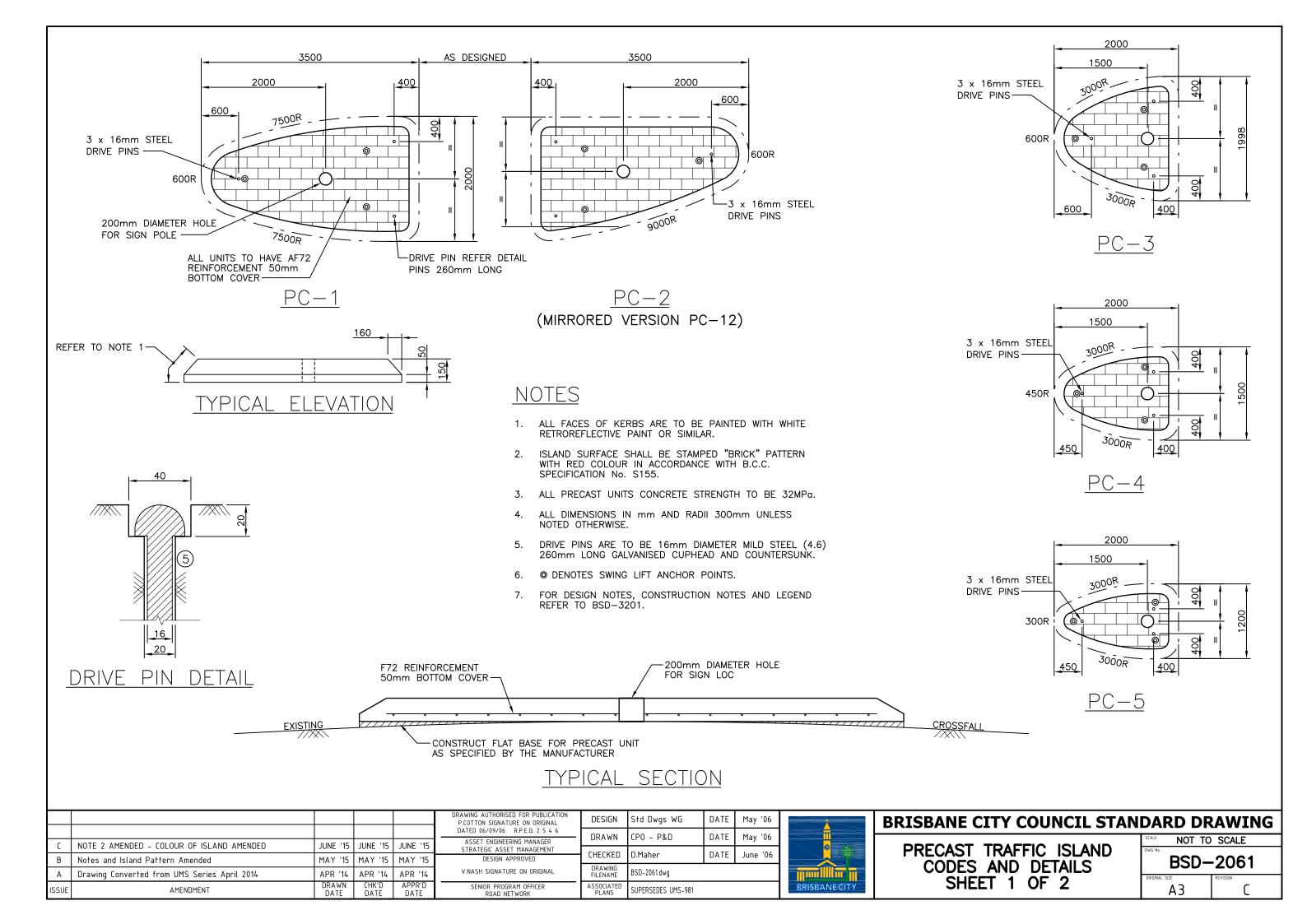
TRENCH RESTORATION ROAD CROSSING FLEXIBLE PAVEMENTS

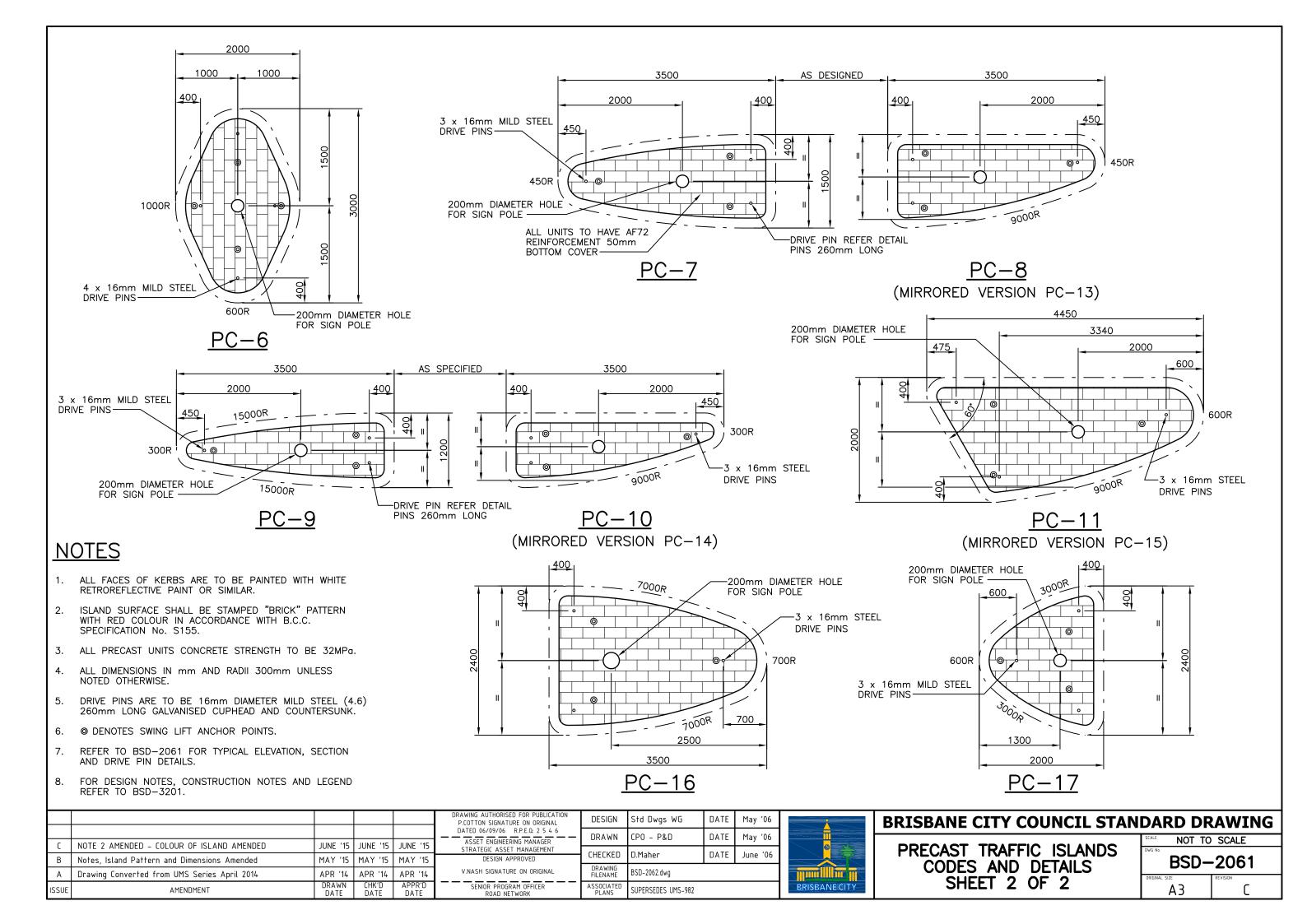
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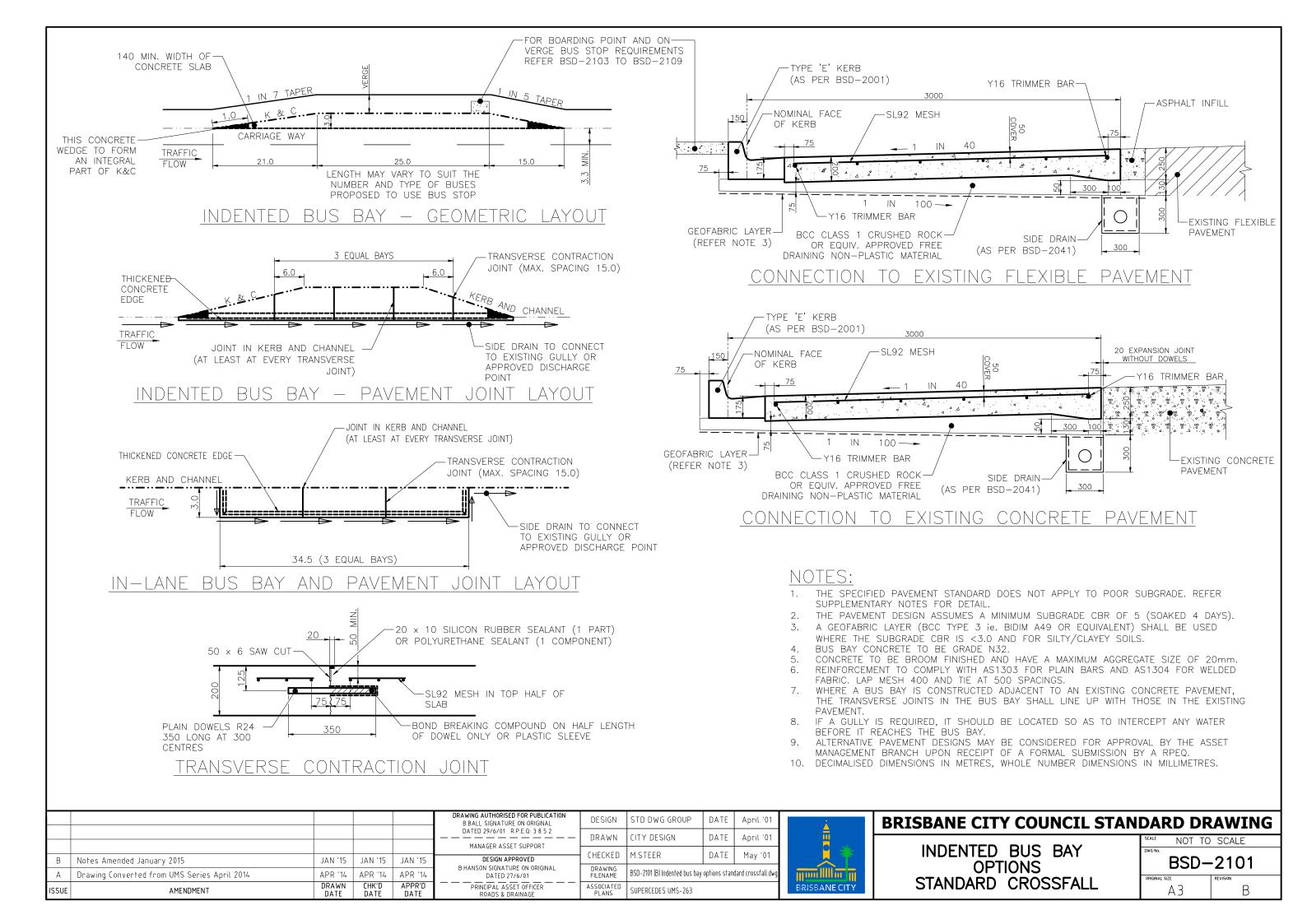
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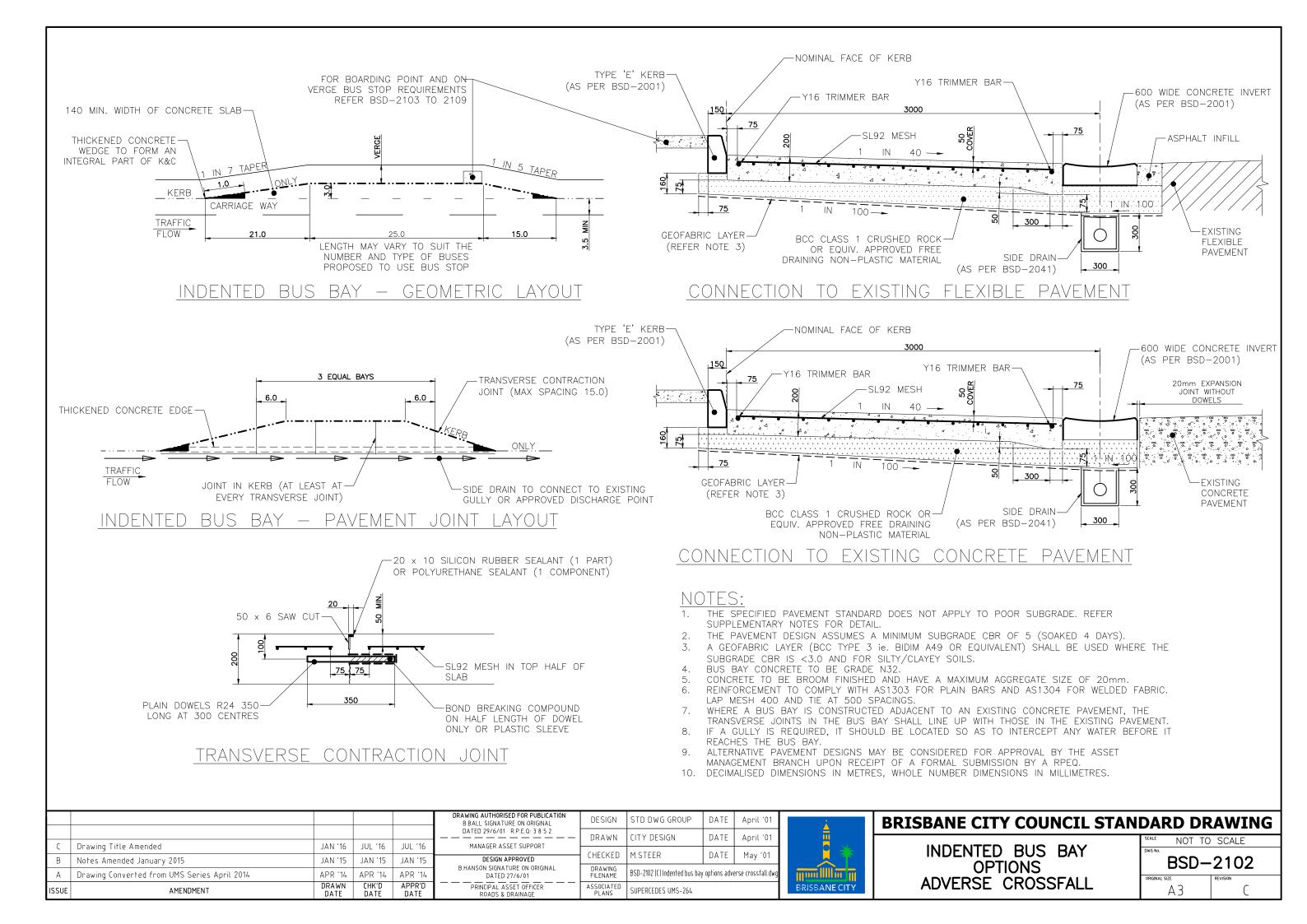


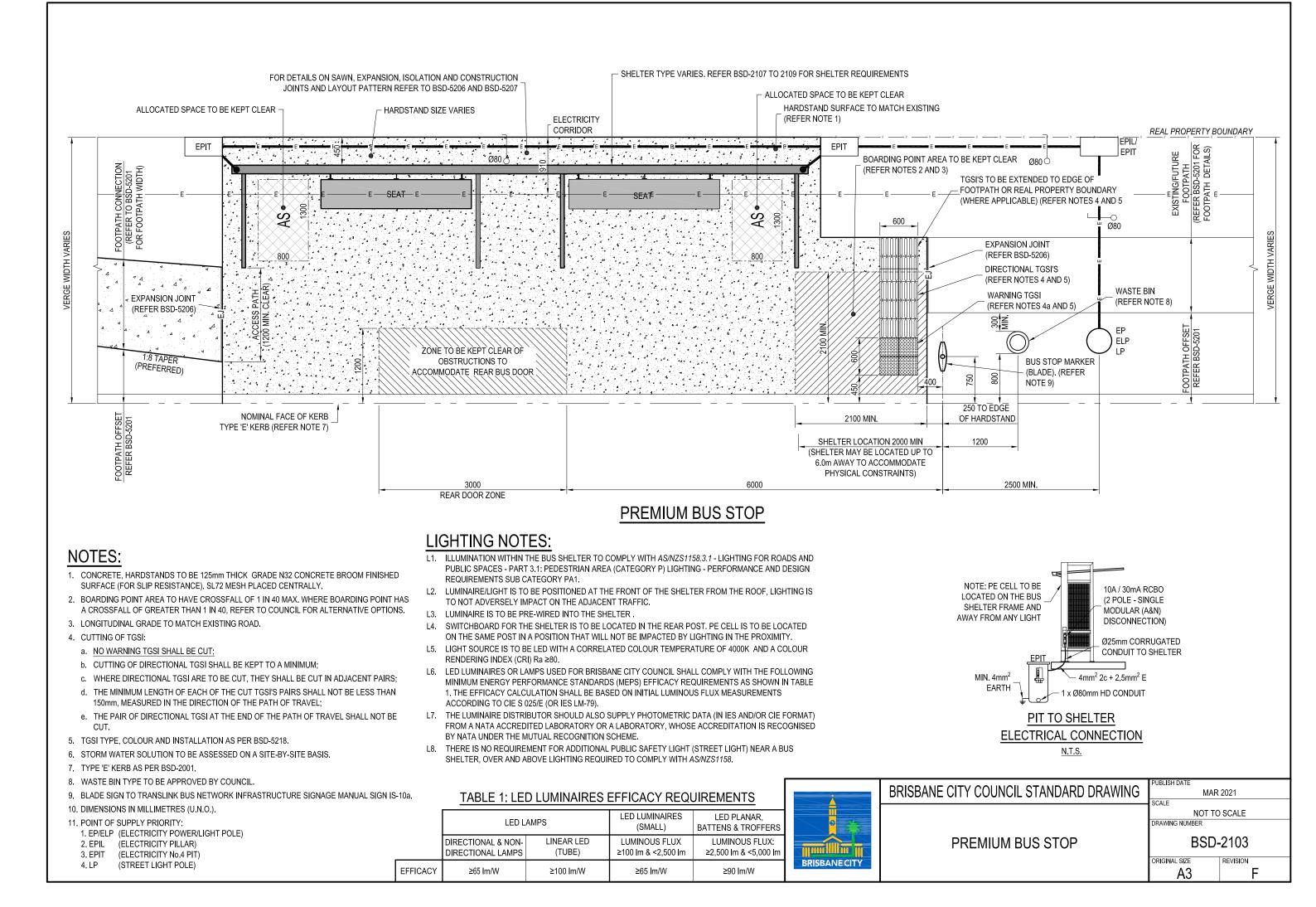
JOINTS,	
RFACING NT E PATH KISTING ES 4 & 6 MENT TO O KERB	DECORATIVE SURFACE (HONED CONCRETE, PAVERS/TILES ETC.) PLAIN SURFACE (BROOM FINISH CONCRETE, ASPHALT ETC.)
TYPICAL PLAN VIEW - LC TRENCH THROUGH FULL	
H SNMENT TO BE HI AP (002) TO	GE ERGES. THE EXISTING SURFACE WIDTH (e.g. CTS (SCIP) AND OTHER HIGH FINISH QUIREMENTS.
ESPECIFICATIONS FOR CIVIL ENGINEERING	WORKS:
DRAWING BSD-8011. WINGS BSD-4015 & BSD-4016.	
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RESTORATION S AND PATHS	BSD-2043
	ORIGINAL SIZE REVISION

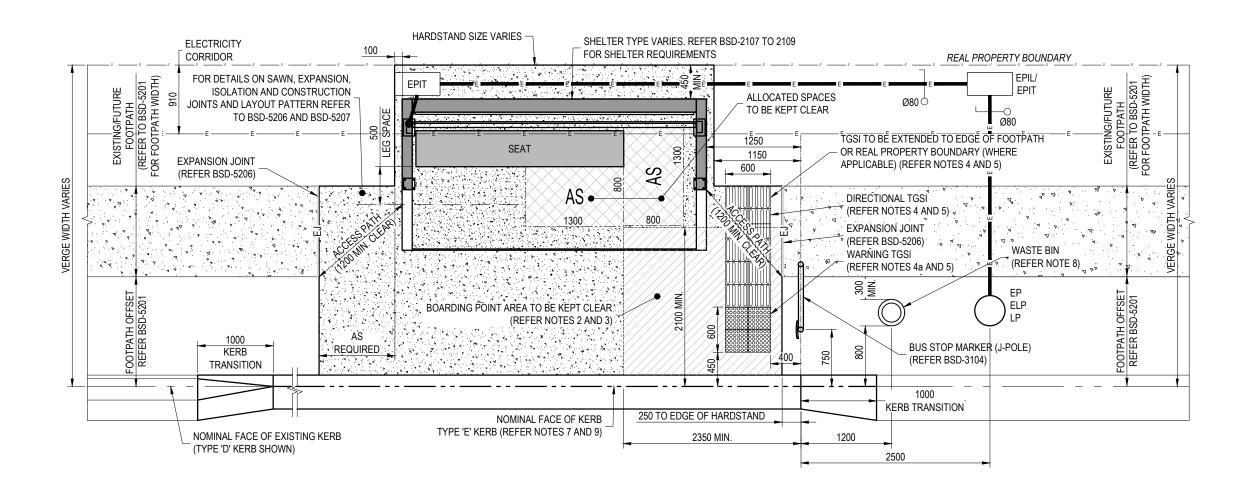












- 1. REFER BSD-2103 FOR CONCRETE HARDSTAND DETAILS (WHERE APPLICABLE). HARDSTAND FINISH TO MATCH SURROUNDING AREA FINISH.
- 2. BOARDING POINT AREA TO HAVE CROSSFALL OF 1 IN 40 MAX. WHERE BOARDING POINT HAS A CROSSFALL OF GREATER THAN 1 IN 40, REFER TO COUNCIL FOR ALTERNATIVE OPTIONS.
- 3. LONGITUDINAL GRADE TO MATCH EXISTING ROAD
- 4. 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.
- 5. TGSI TYPE, COLOUR AND INSTALLATION AS PER BSD-5218.
- 6. STORM WATER SOLUTION TO BE ASSESSED ON A SITE-BY-SITE BASIS.
- 7. MODIFY EXISTING KERB ON APPROACH SIDE OF THE BUS STOP TO ENSURE SAFE ALIGHTING FROM BUSES:
- FOR 12.5m AND 14.5m BUSES: 9m OF TYPE 'E' KERB;
- FOR 18m BUSES: 14m TYPE 'E' KERB;
- CONSTRUCT 1.0m TRANSITION AT EACH END.
- 8. WASTE BIN TO BE APPROVED BY COUNCIL.
- 9. TYPE 'E' KERB AS PER BSD-2001.
- 10. BLADE SIGN TO TRANSLINK BUS NETWORK INFRASTRUCTURE SIGNAGE MANUAL SIGN IS-10a.

EFFICACY

≥65 lm/W

≥100 lm/W

11. CENTRES ARE LAND ZONED AS CENTRE BY BRISBANE CITY PLAN 2014 AND

INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.

12. DIMENSIONS IN MILLIMETRES (U.N.O.).

- 13. POINT OF SUPPLY PRIORITY:
- 1. EP/ELP (ELECTRICITY POWER/LIGHT POLE)
- 2. EPIL (ELECTRICITY PILLAR)
- 3. EPIT (ELECTRICITY No.4 PIT)
- 4. LP (STREET LIGHT POLE)

INTERMEDIATE BUS STOP - CONSTRAINED SITE

LIGHTING NOTES:

- L1. ILLUMINATION WITHIN 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 PA1.
- L2. 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.
- L3. LUMINAIRE IS TO BE PRE-WIRED INTO THE SHELTER
- L4. 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.
- L5. LIGHT SOURCE IS TO BE LED WITH A CORRELATED COLOUR TEMPERATURE OF 4000K AND A COLOUR RENDERING INDEX (CRI) Ra ≥80.
- L6. LED LUMINAIRES 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).
- L7. 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.
- L8. THERE IS NO REQUIREMENT FOR ADDITIONAL PUBLIC SAFETY LIGHT (STREET LIGHT) NEAR A BUS SHELTER, OVER AND ABOVE LIGHTING REQUIRED TO COMPLY WITH *AS/NZS1158*.

≥90 lm/W

BRISBANE CITY COUL INTERMEDIA CONSTR

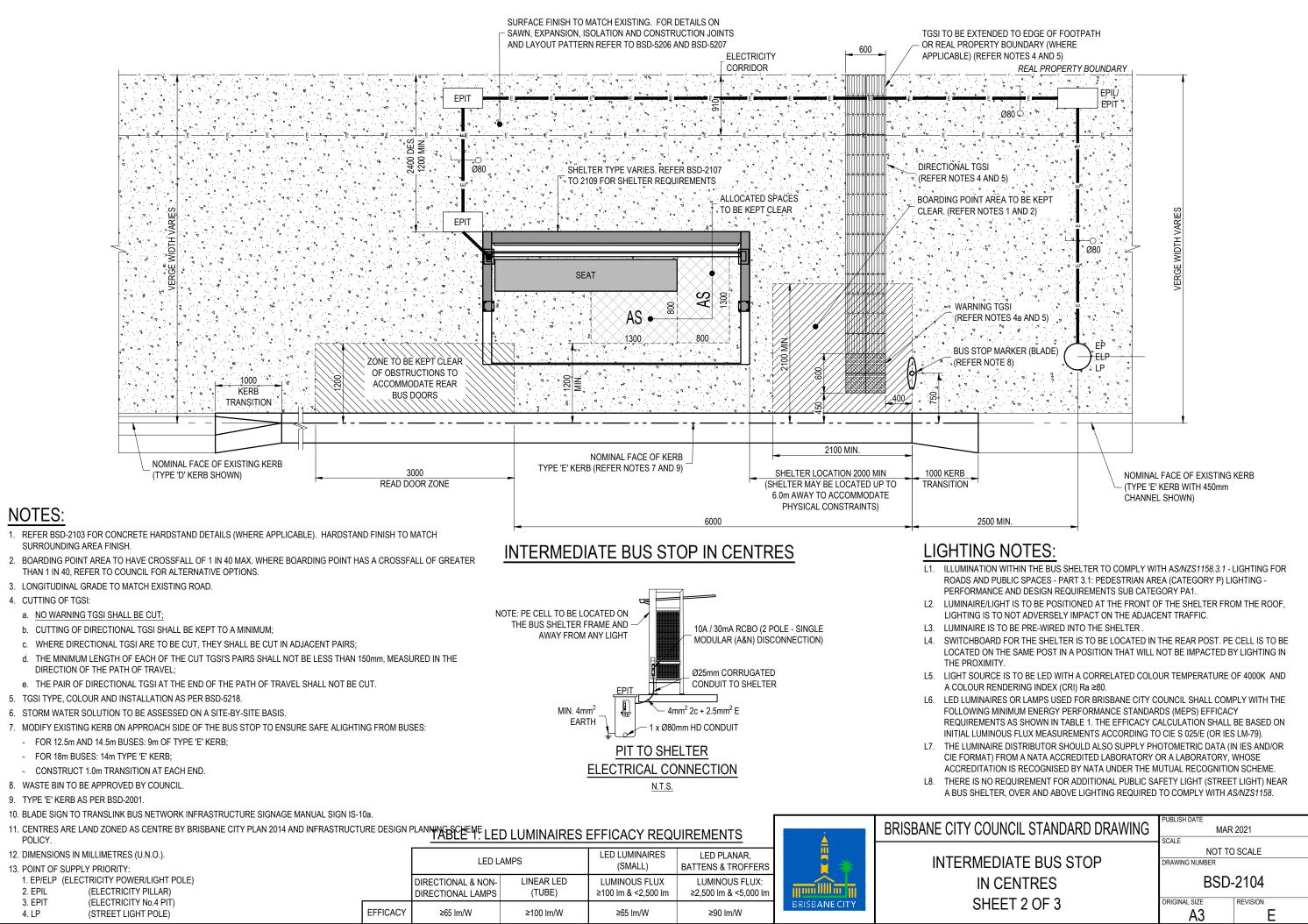
TABLE 1: LED LUMINAIRES EFFICACY REQUIREMENTS LED LUMINAIRES LED PLANAR, LED LAMPS (SMALL) **BATTENS & TROFFERS** DIRECTIONAL & NON-LINEAR LED LUMINOUS FLUX LUMINOUS FLUX: ≥2,500 lm & <5,000 lm na UULar (TUBE) ≥100 lm & <2 500 lm DIRECTIONAL LAMPS RISBANE CITY

≥65 lm/W

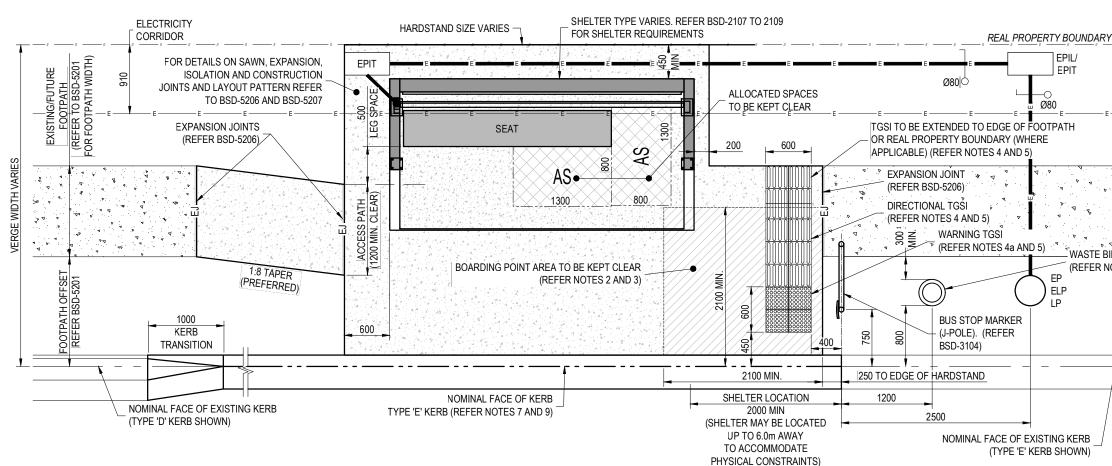
NOTE: PE CELL TO BE LOCATED ON THE BUS SHELTER FRAME AND AWAY FROM ANY LIGHT

AWAY FROM ANY LIGHT MODUL	IDUIT	
COUNCIL STANDARD DRAWING	PUBLISH DATE MAR	2021
MEDIATE BUS STOP -	NOT TO DRAWING NUMBER	SCALE
NSTRAINED SITE	BSD-	2104
SHEET 3 OF 3	ORIGINAL SIZE	REVISION

10A / 30mA RCBO (2 POLE - SINGLE



IRES	DSD-2104	
2 OF 3	ORIGINAL SIZE	REVISION
	A3	E



INTERMEDIATE BUS STOP - PREFERRED

NOTES:

- 1. REFER BSD-2103 FOR CONCRETE HARDSTAND DETAILS (WHERE APPLICABLE). HARDSTAND FINISH TO MATCH SURROUNDING AREA FINISH
- 2. BOARDING POINT AREA TO HAVE CROSSFALL OF 1 IN 40 MAX. WHERE BOARDING POINT HAS A CROSSFALL OF GREATER THAN 1 IN 40, REFER TO COUNCIL FOR ALTERNATIVE OPTIONS.
- 3. LONGITUDINAL GRADE TO MATCH EXISTING ROAD.
- 4. CUTTING OF TGSI:
- a. NO WARNING TGSI SHALL BE CUT;
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- 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.
- 5. TGSI TYPE, COLOUR AND INSTALLATION AS PER BSD-5218
- 6. STORM WATER SOLUTION TO BE ASSESSED ON A SITE-BY-SITE BASIS.
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- FOR 18m BUSES: 14m TYPE 'E' KERB;
- CONSTRUCT 1.0m TRANSITION AT EACH END.
- 8. WASTE BIN TO BE APPROVED BY COUNCIL.
- 9. TYPE 'E' KERB AS PER BSD-2001.
- 10. BLADE SIGN TO TRANSLINK BUS NETWORK INFRASTRUCTURE SIGNAGE MANUAL SIGN IS-10a.
- 11. CENTRES ARE LAND ZONED AS CENTRE BY BRISBANE CITY PLAN 2014 AND INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.

12. DIMENSIONS IN MILLIMETRES (U.N.O.).

- 13. POINT OF SUPPLY PRIORITY:
- 1. EP/ELP (ELECTRICITY POWER/LIGHT POLE)
- 2. EPIL (ELECTRICITY PILLAR)
- 3. EPIT (ELECTRICITY No.4 PIT)
- 4. LP (STREET LIGHT POLE)

LIGHTING NOTES:

- L1. ILLUMINATION WITHIN 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 PA1.
- L2. 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 L3.

TABLE 1: LED LUMINAIRES EFFICACY REQUIREMENTS

LED LAMPS

LINEAR LED

(TUBE)

≥100 lm/W

DIRECTIONAL & NON-

DIRECTIONAL LAMPS

≥65 lm/W

EFFICACY

LED LUMINAIRES

(SMALL)

LUMINOUS FLUX

≥100 lm & <2,500 lm

≥65 lm/W

- L4. 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
- L5. LIGHT SOURCE IS TO BE LED WITH A CORRELATED COLOUR TEMPERATURE OF 4000K AND A COLOUR RENDERING INDEX (CRI) Ra ≥80.
- LED LUMINAIRES OR LAMPS USED FOR BRISBANE CITY COUNCIL SHALL COMPLY WITH THE L6. 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).
- 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.
- THERE IS NO REQUIREMENT FOR ADDITIONAL PUBLIC SAFETY LIGHT (STREET LIGHT) NEAR L8. A BUS SHELTER, OVER AND ABOVE LIGHTING REQUIRED TO COMPLY WITH AS/NZS1158.

LED PLANAR,

BATTENS & TROFFERS

LUMINOUS FLUX:

≥2,500 lm & <5,000 lm

≥90 lm/W

RISBANE

NOTE: PE CELL THE BUS SH AWA

BRISBANE CITY CO

ANA A	INTERMEI
	PREFEI
ITY	SHE

AY FROM ANY LIGHT MODUL	DUIT	
OUNCIL STANDARD DRAWING		2021
EDIATE BUS STOP	SCALE NOT TC DRAWING NUMBER) SCALE
RRED LAYOUT		2104
IEET 1 OF 3	ORIGINAL SIZE	REVISION

EXISTING/FUTURE FOOTPATH (REFER TO BSD-5201 FOR FOOTPATH WIDTH)

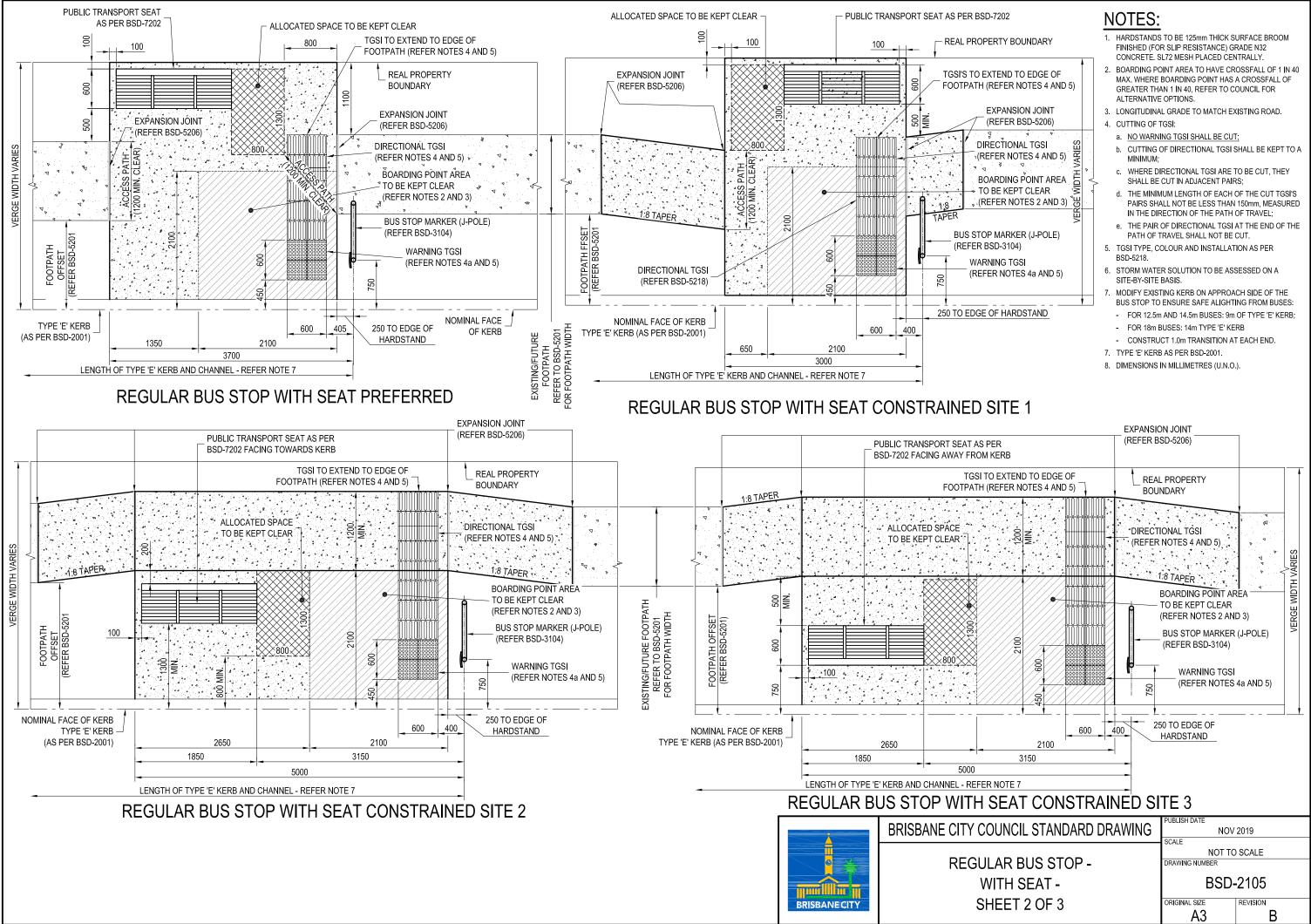
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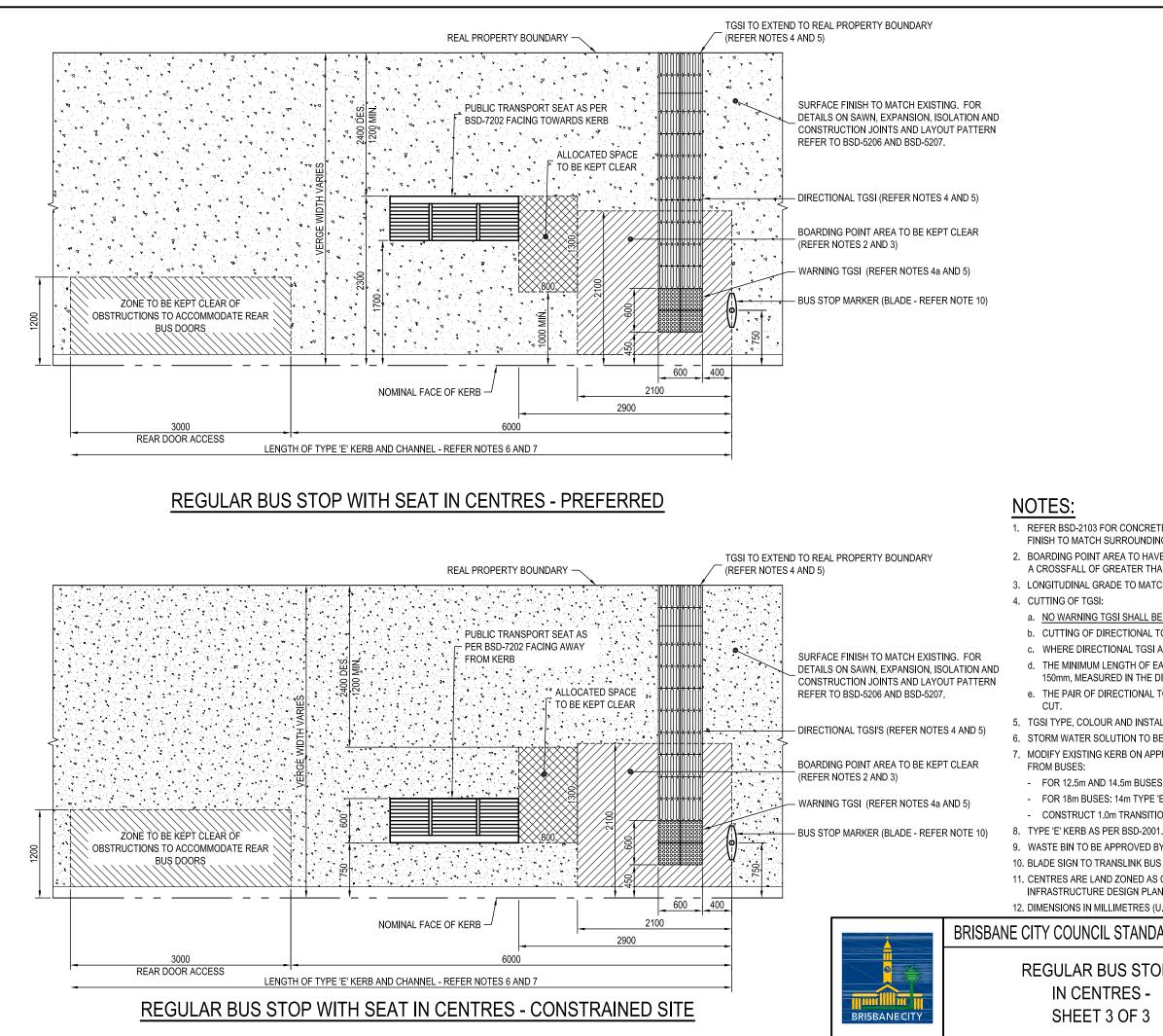
EPIL

EPIT

Ø80



END TO EDGE OF FER NOTES 4 AND 5)	
PANSION JOINT FER BSD-5206)	
TIONAL TGSI SIN R NOTES 4 AND 5) DING POINT AREA E KEPT CLEAR	~ <
ER NOTES 2 AND 3) [*] 渋	:•
当 IARKER (J-POLE) I-3104)	
IG TGSI NOTES 4a AND 5)	
HARDSTAND	



1. REFER BSD-2103 FOR CONCRETE HARDSTAND DETAILS (WHERE APPLICABLE). HARDSTAND FINISH TO MATCH SURROUNDING AREA FINISH.

2. BOARDING POINT AREA TO HAVE CROSSFALL OF 1 IN 40 MAX. WHERE BOARDING POINT HAS A CROSSFALL OF GREATER THAN 1 IN 40, REFER TO COUNCIL FOR ALTERNATIVE OPTIONS. 3. LONGITUDINAL GRADE TO MATCH EXISTING ROAD.

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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

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5. TGSI TYPE, COLOUR AND INSTALLATION AS PER BSD-5218.

6. STORM WATER SOLUTION TO BE ASSESSED ON A SITE-BY-SITE BASIS.

7. MODIFY EXISTING KERB ON APPROACH SIDE OF THE BUS STOP TO ENSURE SAFE ALIGHTING

FOR 12.5m AND 14.5m BUSES: 9m OF TYPE 'E' KERB;

- FOR 18m BUSES: 14m TYPE 'E' KERB.

CONSTRUCT 1.0m TRANSITION AT EACH END.

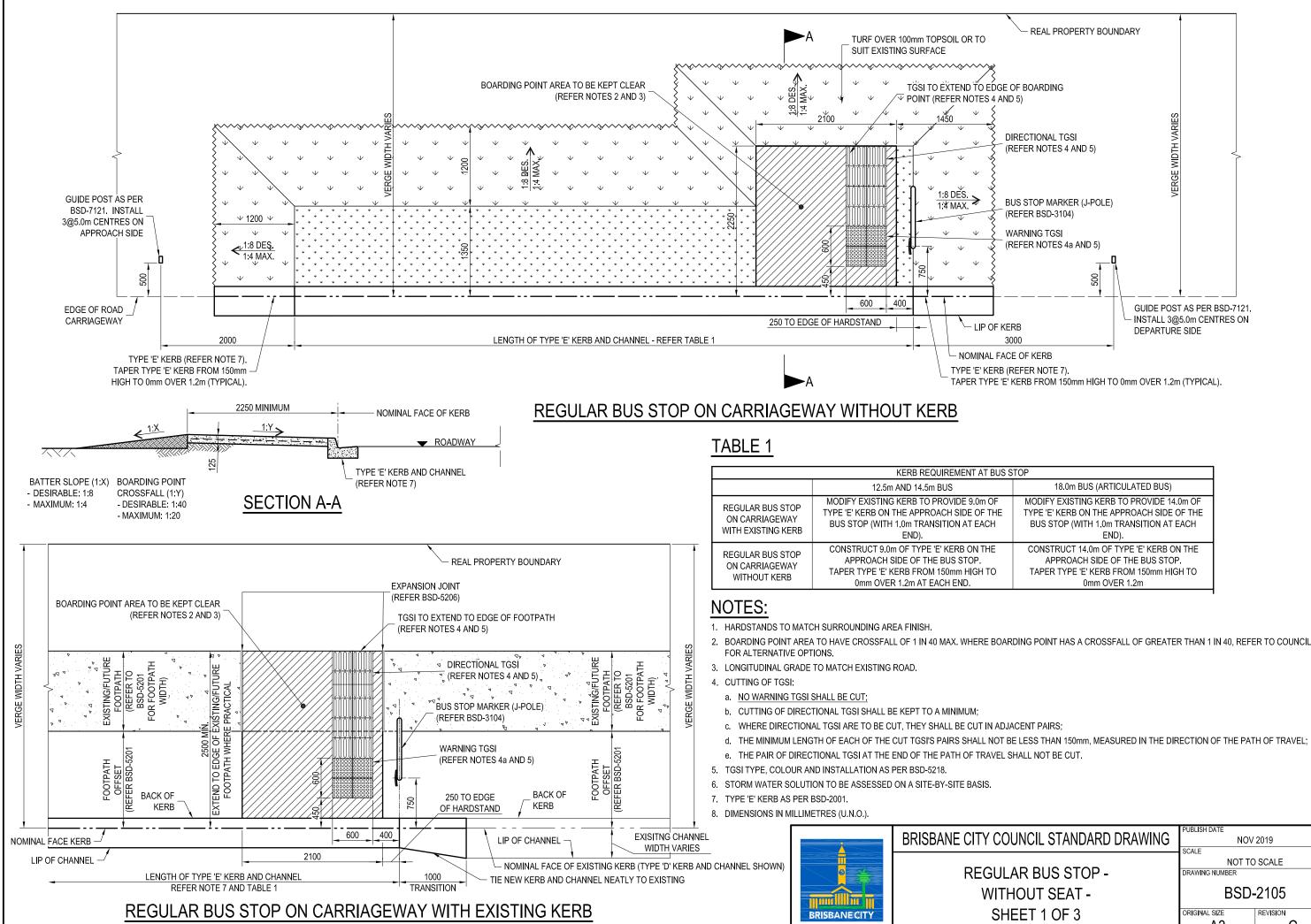
9. WASTE BIN TO BE APPROVED BY COUNCIL.

10. BLADE SIGN TO TRANSLINK BUS NETWORK INFRASTRUCTURE SIGNAGE MANUAL SIGN IS-10a. 11. CENTRES ARE LAND ZONED AS CENTRE BY BRISBANE CITY PLAN 2014 AND

INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY.

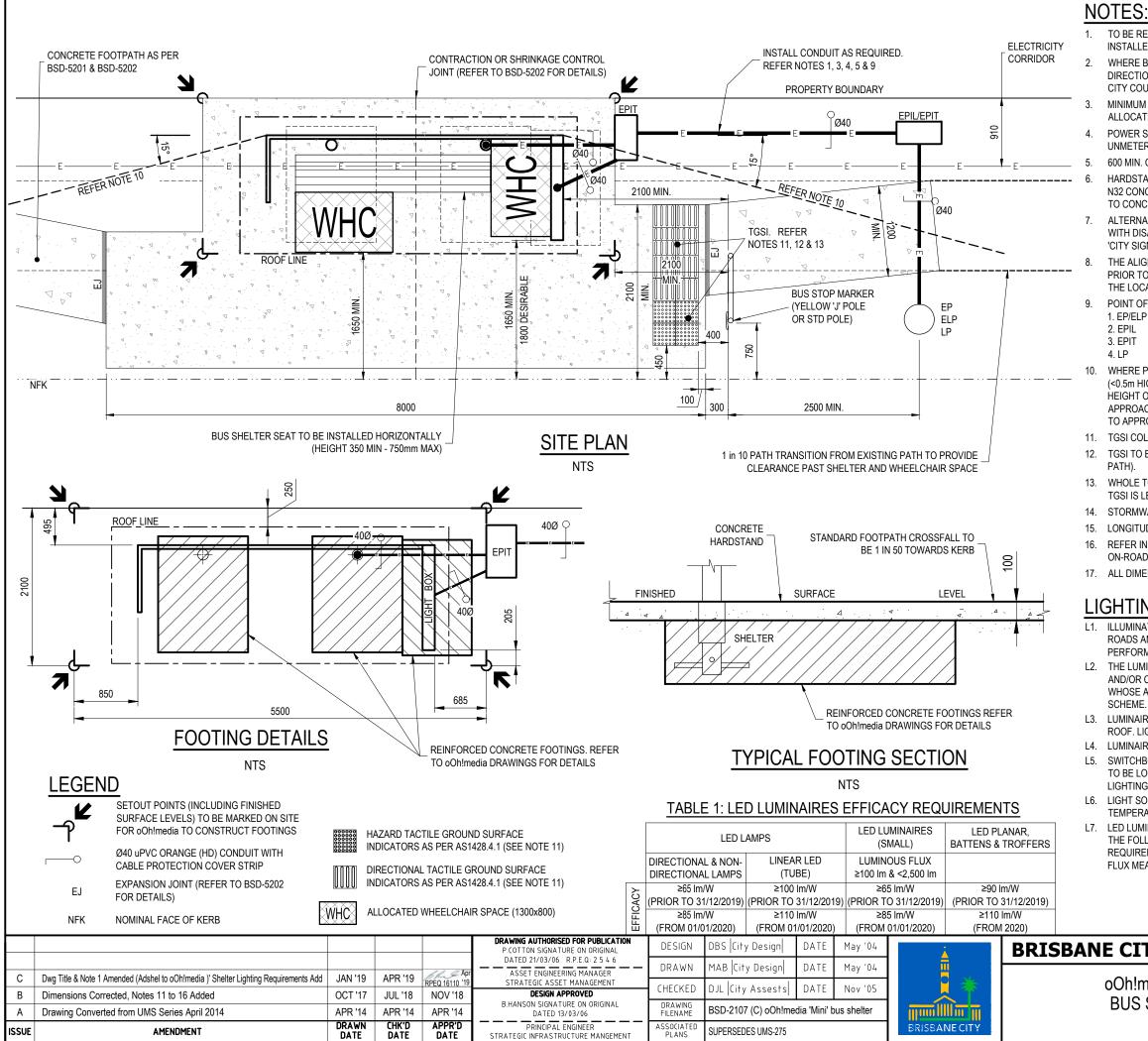
12. DIMENSIONS IN MILLIMETRES (U.N.O.).

JNCIL STANDARD DRAWING	PUBLISH DATE	2019	
	NOT TO SCALE		
AR BUS STOP -	DRAWING NUMBER		
CENTRES -	BSD-2105		
EET 3 OF 3	ORIGINAL SIZE	REVISION	
	A3	С	



TOP
18.0m BUS (ARTICULATED BUS)
MODIFY EXISTING KERB TO PROVIDE 14.0m OF
TYPE 'E' KERB ON THE APPROACH SIDE OF THE
BUS STOP (WITH 1.0m TRANSITION AT EACH
END).
CONSTRUCT 14.0m OF TYPE 'E' KERB ON THE
APPROACH SIDE OF THE BUS STOP.
TAPER TYPE 'E' KERB FROM 150mm HIGH TO
0mm OVER 1.2m

JNCIL STANDARD DRAWING	PUBLISH DATE NOV SCALE	2019
AR BUS STOP -	NOT TO SCALE	
OUT SEAT -	BSD-2105	
EET 1 OF 3	ORIGINAL SIZE	
	710	0



TO BE READ IN CONJUNCTION WITH oOh!mediaDRAWINGS. oOh!mediaSHELTERS ARE INSTALLED AND MAINTAINED BY oOh!mediaUNDER 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.

MINIMUM CLEAR ACCESS OF 1.2m REQUIRED BETWEEN ALL INFRASTRUCTURE PAST ALLOCATED WHEELCHAIR SPACES.

POWER SUPPLY MUST BE RATE 2. LIGHT BOX POWER SUPPLY MUST BE RATE 2 UNMETERED (TARIFF 21).

600 MIN. COVER TO CONDUITS.

HARDSTANDS TO BE 150mm THICK BROOM FINISHED (FOR SLIP RESISTANCE) GRADE N32 CONCRETE. SL82 MESH PLACED CENTRALLY. LEVELS TO BE CONFIRMED PRIOR TO CONCRETE POUR.

ALTERNATIVE SURFACE FINISHES (i.e. 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:

(ELECTRICITY POWER/LIGHT POLE)

(ELECTRICITY PILLAR) (ELECTRICITY No.4 PIT)

(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).

11. TGSI COLOURS AND INSTALLATION TO BSD-5218.

12. TGSI TO EXTEND TO EDGE OF PATH OR REAL PROPERTY BOUNDARY (FULL WIDTH

WHOLE TGSI TO BE PLACED AT END OF PAD. TGSI'S TO BE CUT TO ENSURE THAT NO TGSI IS LESS THAN 150mm LONG.

14. STORMWATER SOLUTION/DESIGN TO BE ASSESSED ON A SITE-BY-SITE BASIS. 15. LONGITUDINAL GRADE TO MATCH ROAD.

REFER INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY FOR LAYOUT AND ON-ROAD REQUIREMENTS

17. 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.

L2. 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

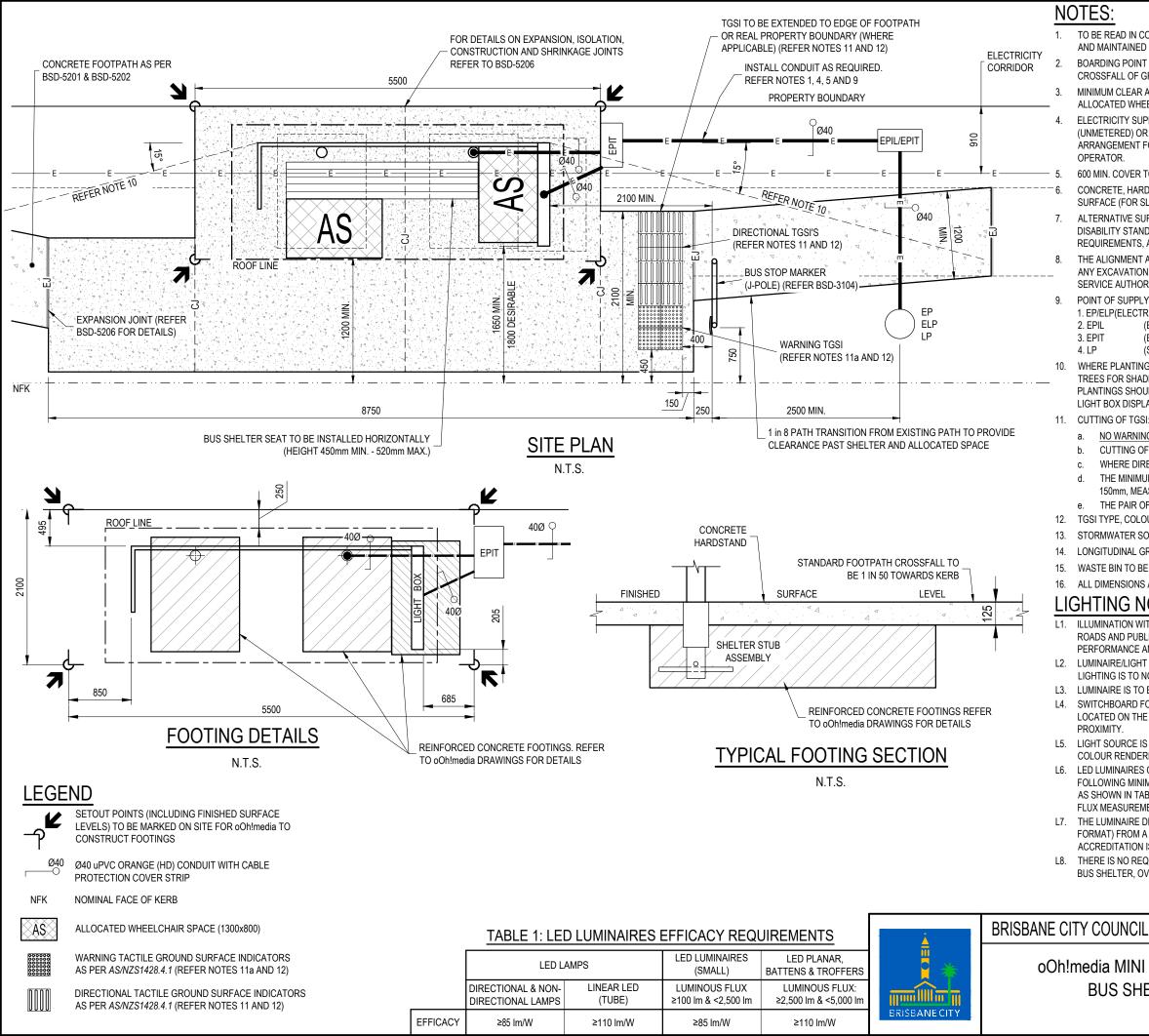
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SWITCHBOARD FOR THE SHELTER IS TO BE LOCATED IN THE REAR POST. PE CELL IS TO BE LOCATED ON THE SAME POST IN A POSITION THAT WILL NOT BE IMPACTED BY LIGHTING IN THE PROXIMITY.

L6. LIGHT SOURCE IS TO BE LED TECHNOLOGY WITH A CORRELATED COLOUR TEMPERATURE (CCT) OF 4000K AND A COLOUR RENDERING INDEX (CRI) Ra ≥80. L7. 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)

	(00	
TY COUNCIL STAN	DARD DR	AWING
		SCALE
media 'MINI' S SHELTER	BSD-2107	
	ORIGINAL SIZE	REVISION



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.

BOARDING POINT AREA TO HAVE CROSSFALL OF 1 IN 40 MAX. WHERE BOARDING POINT HAS A CROSSFALL OF GREATER THAN 1 IN 40, REFER TO COUNCIL FOR ALTERNATIVE OPTIONS. MINIMUM CLEAR ACCESS PATH OF 1.2M REQUIRED BETWEEN ALL INFRASTRUCTURE AND ALLOCATED WHEELCHAIR SPACES.

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

600 MIN. COVER TO CONDUITS.

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

ALTERNATIVE SURFACE FINISHES (i.e. 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:

1. EP/ELP(ELECTRICITY POWER/LIGHT POLE)

(ELECTRICITY PILLAR)

(ELECTRICITY No.4 PIT)

(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. (COUNCIL TO APPROVE LAYOUT).

NO WARNING TGSI SHALL BE CUT;

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WHERE DIRECTIONAL TGSI ARE TO BE CUT, THEY SHALL BE CUT IN ADJACENT PAIRS; 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;

THE PAIR OF DIRECTIONAL TGSI AT THE END OF THE PATH OF TRAVEL SHALL NOT BE CUT TGSI TYPE, COLOUR AND INSTALLATION AS PER BSD-5218.

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

LONGITUDINAL GRADE TO MATCH ROAD.

WASTE BIN TO BE APPROVED BY COUNCIL.

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

LIGHTING NOTES:

ILLUMINATION WITHIN THE BUS SHELTER TO COMPLY WITH AS/NZS1158.3.1 - LIGHTING FOR ROADS AND PUBLIC SPACES - PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING -

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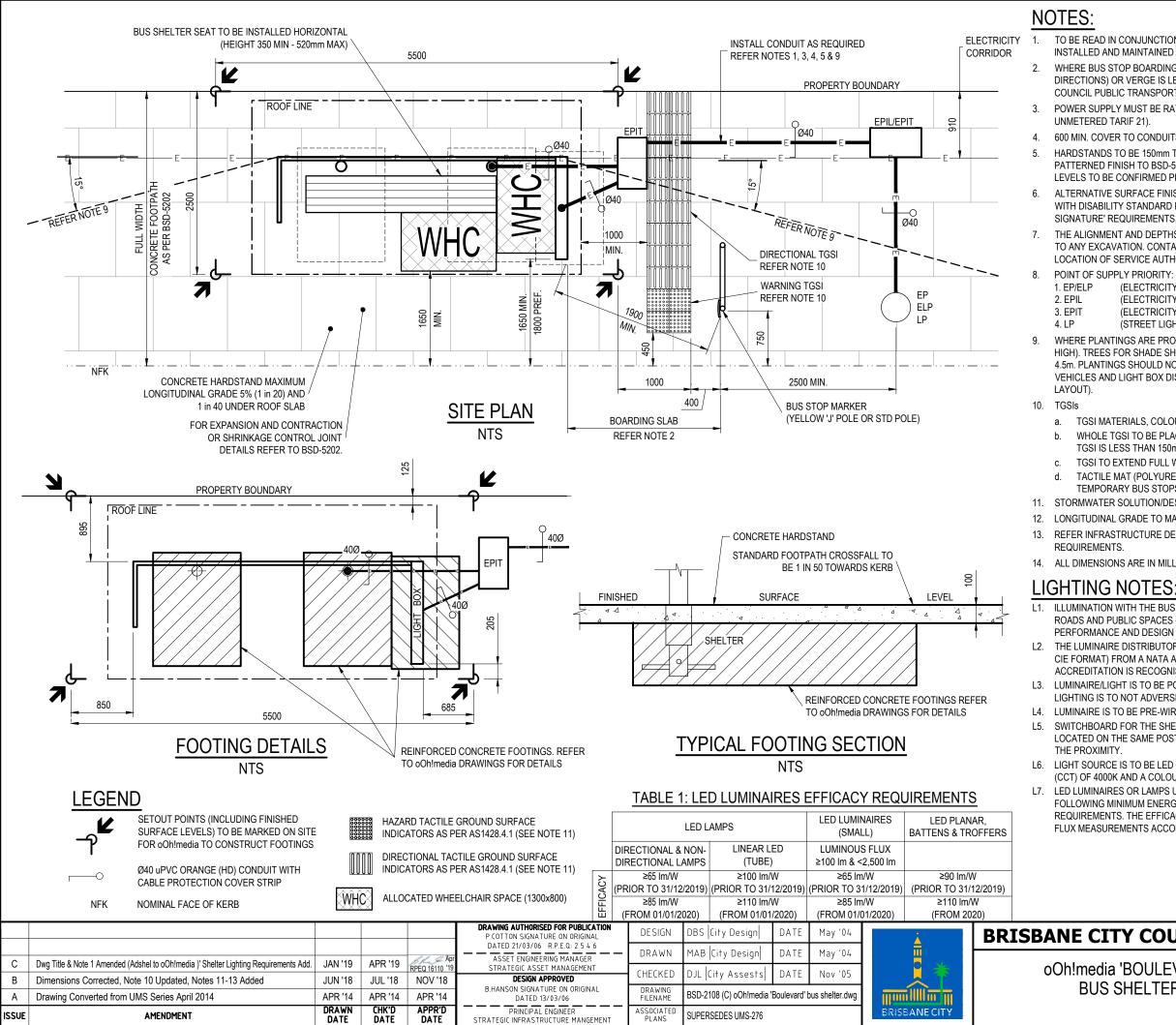
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BUS SHELTER, OVER AND ABOVE LIGHTING REQUIRED TO COMPLY WITH AS/NZS1158.

JNCIL STANDARD DRAWING	PUBLISH DATE MAR SCALE	2021
MINI BOULEVARD	NOT TO DRAWING NUMBER	SCALE
S SHELTER	BSD-2107	
	ORIGINAL SIZE	REVISION
	A3	E



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

600 MIN. COVER TO CONDUITS.

HARDSTANDS TO BE 150mm THICK BROOM FINISHED (FOR SLIP RESISTANCE) OR HONED PATTERNED FINISH TO BSD-5207 GRADE N32 CONCRÈTE. 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

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(ELECTRICITY POWER/LIGHT POLE) (ELECTRICITY PILLAR)

(ELECTRICITY No.4 PIT)

(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

a. TGSI MATERIALS, COLOURS AND INSTALLATION TO BSD-5218.

WHOLE TGSI TO BE PLACED AT END OF PAD. TGSI'S 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

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

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.

L3. 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.

L4. LUMINAIRE IS TO BE PRE-WIRED INTO THE SHELTER.

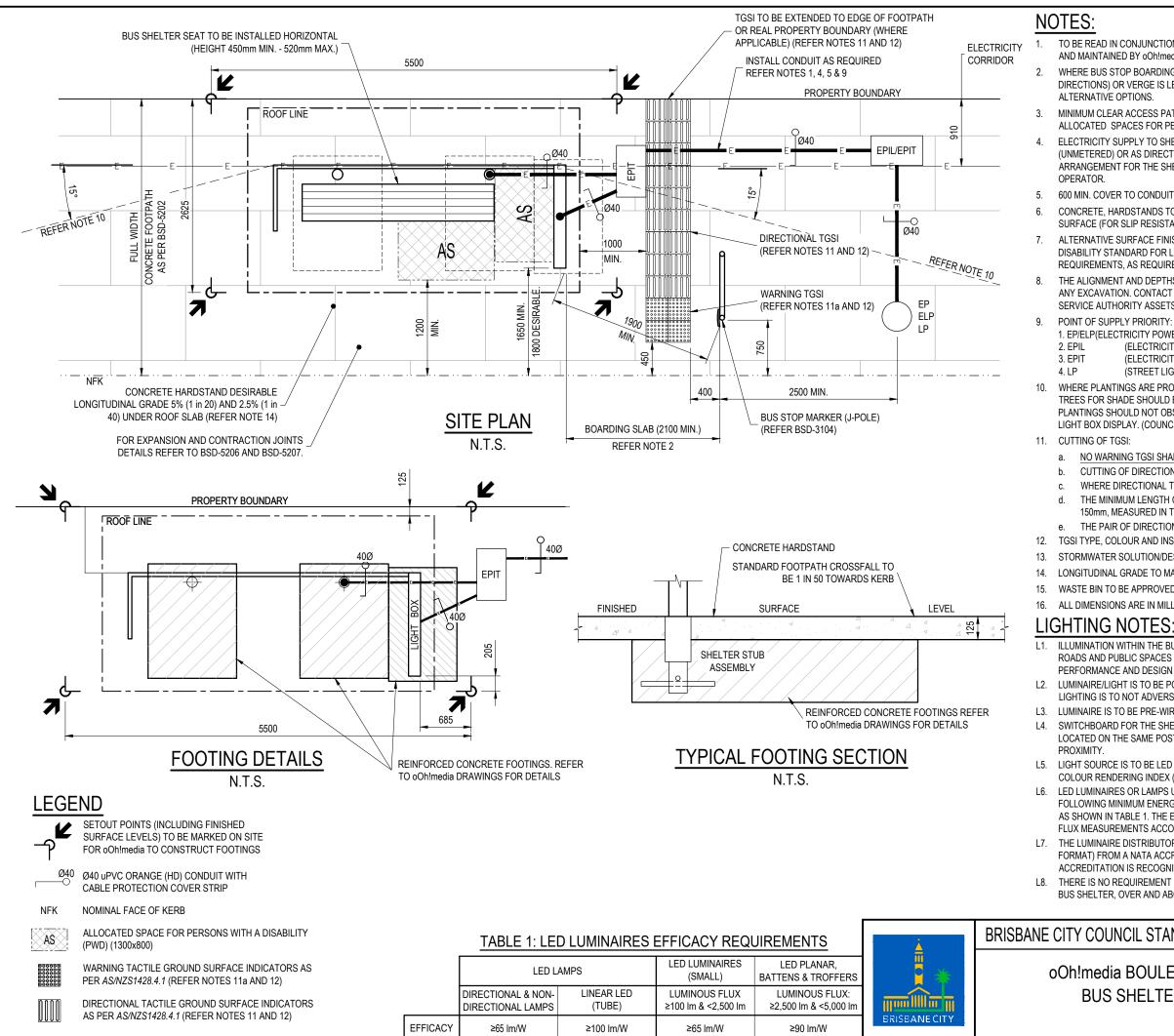
SWITCHBOARD FOR THE SHELTER IS TO BE LOCATED IN THE REAR POST. PE CELL IS TO BE LOCATED ON THE SAME POST IN A POSITION THAT WILL NOT BE IMPACTED BY LIGHTING IN

L6. 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).

TY COUNCIL STAN	DARD DR	AWING
	SCALE NOT TO	SCALE
a 'BOULEVARD' SHELTER	BSD-2108	
	ORIGINAL SIZE	REVISION C



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.

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

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

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

600 MIN. COVER TO CONDUITS.

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

ALTERNATIVE SURFACE FINISHES (i.e. 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:

1. EP/ELP(ELECTRICITY POWER/LIGHT POLE) (ELECTRICITY PILLAR) (ELECTRICITY No.4 PIT)

(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. PLANTINGS SHOULD NOT OBSTRUCT LINE OF SIGHT BETWEEN APPROACHING VEHICLES AND LIGHT BOX DISPLAY. (COUNCIL TO APPROVE LAYOUT).

NO WARNING TGSI SHALL BE CUT;

CUTTING OF DIRECTIONAL TGSI SHALL BE KEPT TO A MINIMUM;

WHERE DIRECTIONAL TGSI ARE TO BE CUT, THEY SHALL BE CUT IN ADJACENT PAIRS; 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;

THE PAIR OF DIRECTIONAL TGSI AT THE END OF THE PATH OF TRAVEL SHALL NOT BE CUT. TGSI TYPE, COLOUR AND INSTALLATION AS PER BSD-5218.

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

LONGITUDINAL GRADE TO MATCH ROAD.

WASTE BIN TO BE APPROVED BY COUNCIL.

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

ILLUMINATION WITHIN 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 PA1

L2. 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

L4. 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

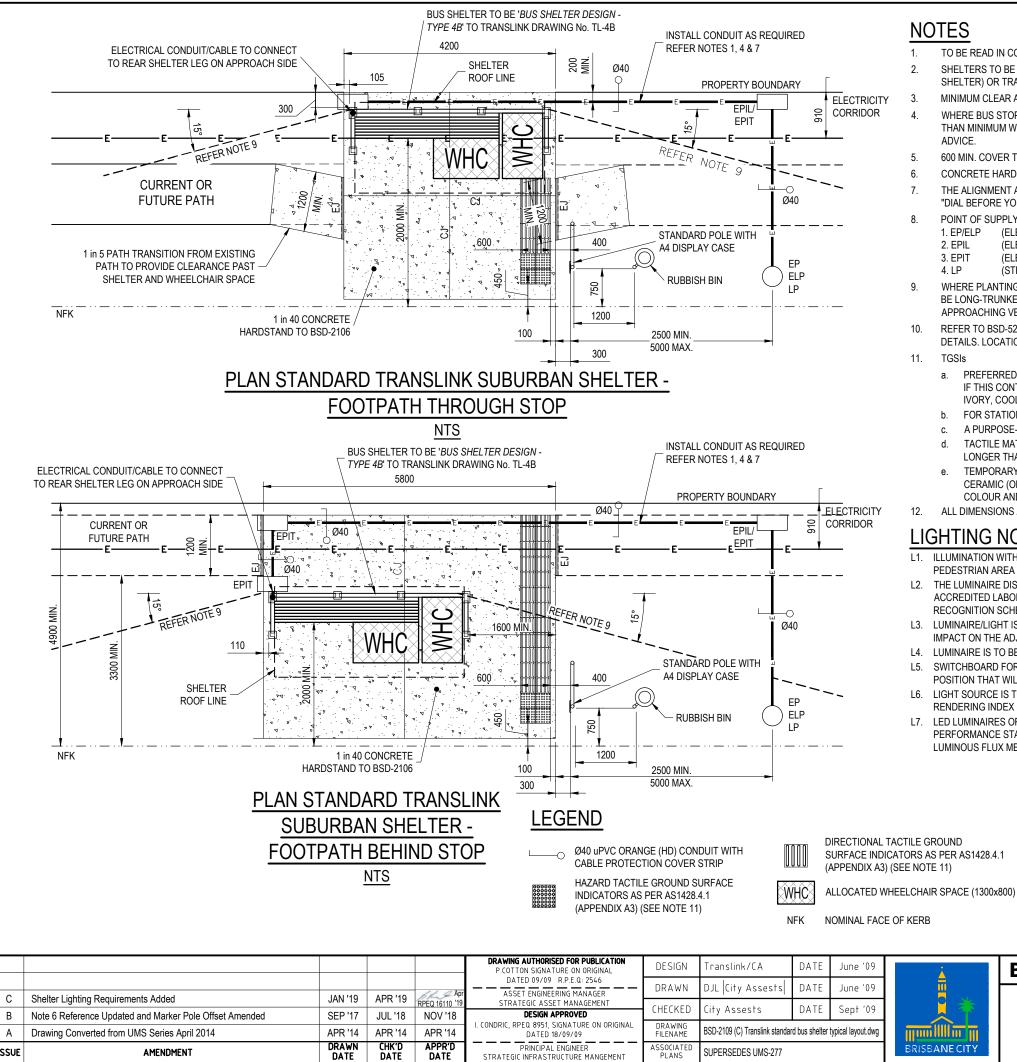
L5. LIGHT SOURCE IS TO BE LED WITH A CORRELATED COLOUR TEMPERATURE OF 4000K AND A COLOUR RENDERING INDEX (CRI) Ra ≥80.

LED LUMINAIRES OR LAMPS USED FOR BRISBANE CITY COUNCIL SHALL COMPLY WITH THE FOLLOWING MINIMUM ENERGY PERFORMANCE STANDARDS (MEPS) EFFICACY REQUIREMENTS 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).

L7. 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. L8. THERE IS NO REQUIREMENT FOR ADDITIONAL PUBLIC SAFETY LIGHT (STREET LIGHT) NEAR A BUS SHELTER, OVER AND ABOVE LIGHTING REQUIRED TO COMPLY WITH AS/NZS1158.

JNCIL STANDARD DRAWING	PUBLISH DATE MAR SCALE	2021
lia BOULEVARD S SHELTER	NOT TO SCALE DRAWING NUMBER BSD-2108	
	ORIGINAL SIZE	REVISION



DATE

DATE

DATE

ISSUE

AMENDMENT

NOTES

- TO BE READ IN CONJUNCTION WITH TRANSLINK DRAWINGS.
- SHELTER) OR TRANS1000-AD-001 (AD BOX SHELTER)
- ADVICE.
- 600 MIN. COVER TO CONDUITS.
- CONCRETE HARDSTANDS TO BE CONSTRUCTED TO BSD-2104.
- POINT OF SUPPLY PRIORITY:
 - (ELECTRICITY POWER/LIGHT POLE) 1 FP/FIP (ELECTRICITY PILLAR) 2 FPII
 - 3. EPIT (ELECTRICITY No.4 PIT
 - 4. LP (STREET LIGHT POLE)

- TGSIs

SUPERSEDES UMS-277

- a. IVORY, COOL GREY, GREY, SILVER OR STAINLESS STEEL
- b.
- h LONGER THAN 6 MONTHS
- COLOUR AND LUMINANCE (SEE a).
- ALL DIMENSIONS ARE IN MILLIMETERS (U.N.O.)

LIGHTING NOTES:

- RECOGNITION SCHEME
- IMPACT ON THE ADJACENT TRAFFIC
- LUMINAIRE IS TO BE PRE-WIRED INTO THE SHELTER.
- POSITION THAT WILL NOT BE IMPACTED BY LIGHTING IN THE PROXIMITY.
- RENDERING INDEX (CRI) Ra ≥80.
- LUMINOUS FLUX MEASUREMENTS ACCORDING TO CIE S 025/E (OR IES LM-79).

TABLE 1: LED LUMINAIRES EFFICACY REQUIREMENTS

DIRECTIONAL & DIRECTIONAL L ≥65 lm/W (PRIOR TO 31/12 ≥85 lm/W (FROM 01/01/20

- EFFICACY
 - TRANSLI BUS

SHELTERS TO BE CONSTRUCTED AND INSTALLED TO TRANSLINK DRAWINGS TRANS1000-NON AD-001 (NON-AD BOX

MINIMUM CLEAR ACCESS OF 1.2m REQUIRED BETWEEN ALL INFRASTRUCTURE PAST ALLOCATED WHEELCHAIR SPACES. 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

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.

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 TO APPROVE LAYOUT).

REFER TO BSD-5202 FOR EXPANSION JOINT (EJ) AND CONTRACTION OR SHRINKAGE CONTROL JOINT (CJ) CONSTRUCTION DETAILS. LOCATION ON DRAWING IS INDICATIVE ONLY AND TO BE CONFIRMED BY THE SUPERINTENDENT ON SITE.

PREFERRED TGSI COLOUR IS BLACK. LUMINANCE CONTRAST BETWEEN TGSI AND PAVEMENT MUST BE AT LEAST 30%. IF THIS CONTRAST IS NOT POSSIBLE USING BLACK, AN ALTERNATIVE COLOUR FROM THE FOLLOWING MAY BE USED:

FOR STATIONS AND HIGH-PATRONAGE STOPS, CERAMIC (OR SIMILAR) TGSI TILES MUST BE USED.

A PURPOSE-DESIGNED 'PATHFINDING' SYSTEM MAY BE USED AS AN ALTERNATIVE TO TGSIS.

TACTILE MAT (POLYURETHANE OR SIMILAR) TGSIS MAY ONLY BE USED AT TEMPORARY BUS STOPS, AND FOR NO

TEMPORARY TACTILE MAT (POLYURETHANE OR SIMILAR) TGSIS MAY BE USED ON SERVICE PIT LIDS ON WHICH CERAMIC (OR SIMILAR) TILES CANNOT BE USED. THE MAT MUST MEET THE SPECIFICATIONS FOR CONTRASTING

L1. 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

LUMINAIRE/LIGHT IS TO BE POSITIONED AT THE FRONT OF THE SHELTER FROM THE ROOF. LIGHTING IS TO NOT ADVERSELY

SWITCHBOARD FOR THE SHELTER IS TO BE LOCATED IN THE REAR POST. PE CELL IS TO BE LOCATED ON THE SAME POST IN A

LIGHT SOURCE IS TO BE LED TECHNOLOGY WITH A CORRELATED COLOUR TEMPERATURE (CCT) OF 4000K AND A COLOUR

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

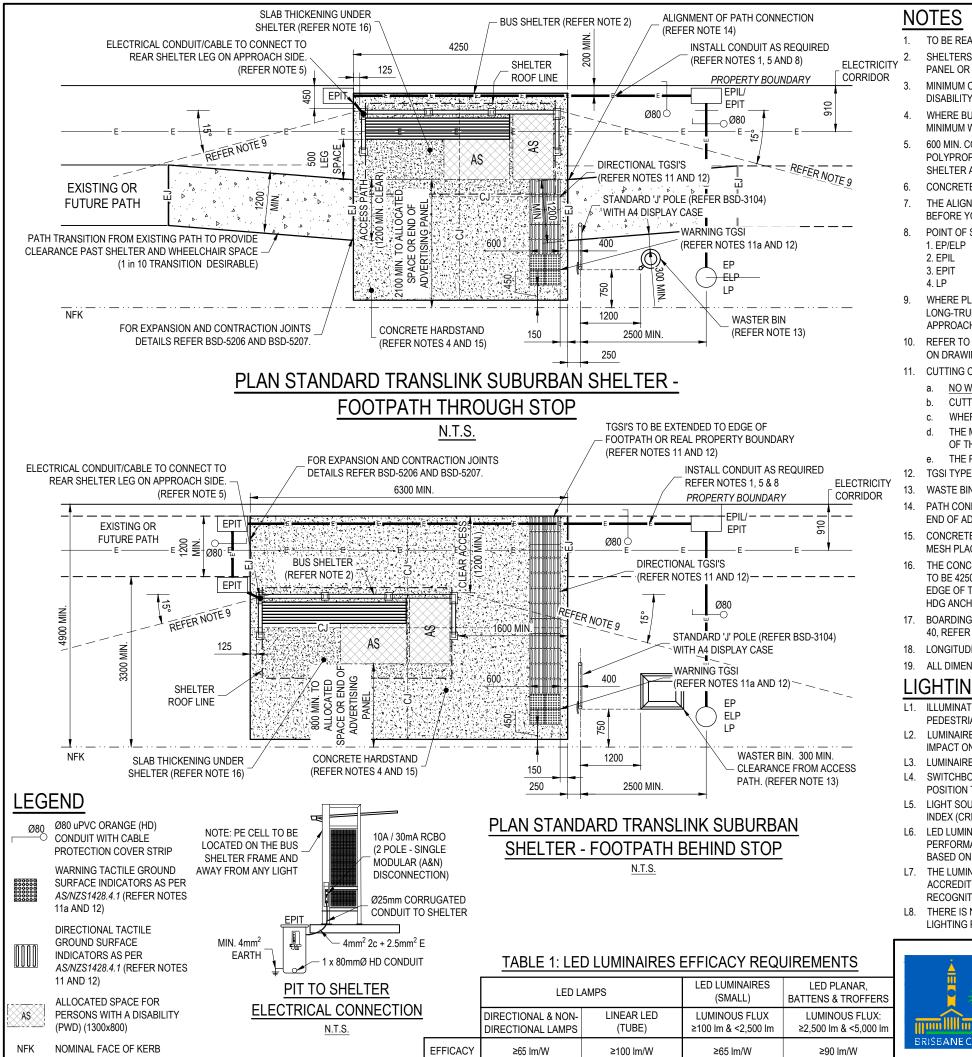
LED LAMPS		LED LUMINAIRES (SMALL)	LED PLANAR, BATTENS & TROFFERS
& NON- _AMPS	LINEAR LED (TUBE)	LUMINOUS FLUX ≥100 lm & <2,500 lm	
	≥100 lm/W	≥65 lm/W	≥90 lm/W
2/2019)	(PRIOR TO 31/12/2019)	(PRIOR TO 31/12/2019)	(PRIOR TO 31/12/2019)
	≥110 lm/W	≥85 lm/W	≥110 lm/W
2020)	(FROM 01/01/2020)	(FROM 01/01/2020)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

BRISBANE CITY COUNCIL STANDARD DRAWING

ANSLINK STANDARD
BUS SHELTER
TYPICAL LAYOUT

DWG No.	
B	SD-2109
ORIGINAL SIZE	REVISION
Α3	C C

NOT	10	SCA



- TO BE READ IN CONJUNCTION WITH TRANSLINK DRAWINGS.
- PANEL OR 5-0401 (SUBURBAN SHELTER WITH ADVERTISING PANEL).
- DISABILITY.

- CONCRETE HARDSTANDS TO BE CONSTRUCTED TO BSD-2104
- BEFORE YOU DIG" ON TEL. NO. 1100 FOR THE LOCATION OF SERVICE AUTHORITY ASSETS.
- POINT OF SUPPLY PRIORITY:
 - 1. EP/ELP (ELECTRICITY POWER/LIGHT POLE)
 - (ELECTRICITY PILLAR)
 - 3. EPIT (ELECTRICITY No.4 PIT)
 - 4 I P (STREET LIGHT POLE)
- APPROACHING VEHICLES AND LIGHT BOX DISPLAY. (PUBLIC TRANSPORT TO APPROVE LAYOUT).
- ON DRAWING IS INDICATIVE ONLY AND TO BE CONFIRMED BY THE SUPERINTENDENT ON SITE
- CUTTING OF TGSI
 - NO WARNING TGSI SHALL BE CUT;
- CUTTING OF DIRECTIONAL TGSI SHALL BE KEPT TO A MINIMUM;
- WHERE DIRECTIONAL TGSI ARE TO BE CUT, THEY SHALL BE CUT IN ADJACENT PAIRS;
- OF THE PATH OF TRAVEL
- 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-5218.
- WASTE BIN TO BE APPROVED BY COUNCIL
- END OF ADVERTISING PANEL ON SUBURBAN SHELTERS WITH ADVERTISING PANEL
- MESH PLACED CENTRALLY.
- HDG ANCHORS
- 40, REFER TO COUNCIL FOR ALTERNATIVE OPTIONS.
- LONGITUDINAL GRADE TO MATCH EXISTING ROAD.

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

- LIGHTING NOTES:
- ILLUMINATION WITHIN THE BUS SHELTER TO COMPLY WITH AS/NZS1158.3.1 LIGHTING FOR ROADS AND PUBLIC SPACES PART 3.1:
- IMPACT ON THE ADJACENT TRAFFIC.
- 1.3 I UMINAIRE IS TO BE PRE-WIRED INTO THE SHELTER
- POSITION THAT WILL NOT BE IMPACTED BY LIGHTING IN THE PROXIMITY.
- INDEX (CRI) Ra ≥80
- BASED ON INITIAL LUMINOUS FLUX MEASUREMENTS ACCORDING TO CIE S 025/E (OR IES LM-79)
- RECOGNITION SCHEME
- LIGHTING REQUIRED TO COMPLY WITH AS/NZS1158



JNCIL STANDARD DRAWING	PUBLISH DATE MAR SCALE	2021
ANSLINK SUBURBAN UT ADVERTISING PANEL	NOT TC DRAWING NUMBER BSD-	2109
CAL LAYOUT	ORIGINAL SIZE	REVISION

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 THERE IS NO REQUIREMENT FOR ADDITIONAL PUBLIC SAFETY LIGHT (STREET LIGHT) NEAR A BUS SHELTER, OVER AND ABOVE

L6. LED LUMINAIRES 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

L5. LIGHT SOURCE IS TO BE LED WITH A CORRELATED COLOUR TEMPERATURE OF 4000K AND A COLOUR RENDERING

SWITCHBOARD FOR THE SHELTER IS TO BE LOCATED IN THE REAR POST. PE CELL IS TO BE LOCATED ON THE SAME POST IN A

PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND DESIGN REQUIREMENTS SUB CATEGORY PA1. LUMINAIRE/LIGHT IS TO BE POSITIONED AT THE FRONT OF THE SHELTER FROM THE ROOF, LIGHTING IS TO NOT ADVERSELY

BOARDING POINT AREA TO HAVE CROSSFALL OF 1 IN 40 MAX. WHERE BOARDING POINT HAS A CROSSFALL OF GREATER THAN 1 IN

THE CONCRETE SLAB UNDER THE SHELTER SHALL BE THICKENED FROM 125mm TO 150mm FOR UPLIFT AND FIXING. MINIMUM ARE TO BE 4250 (ALONG THE REAR PANEL OF THE SHELTER) x 2000m. THE SHELTER SHALL BE CENTRALLY LOCATED ALONG THE LONG EDGE OF THE SLAB WITH THE REAR PANEL AT 250mm FROM THE EDGE OF THE SLAB (U.N.O.). FIXINGS SHALL BE N12 CHEMSET 801

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

PATH CONNECTION TO ALIGN WITH ALLOCATED SPACE ON SUBURBAN SHELTERS WITHOUT ADVERTISING PANEL OR WITH THE

THE MINIMUM LENGTH OF EACH OF THE CUT TGSI'S PAIRS SHALL NOT BE LESS THAN 150mm, MEASURED IN THE DIRECTION

REFER TO BSD-5202 AND BSD-5206 FOR EXPANSION JOINT (EJ) AND CONTRACTION JOINT (CJ) CONSTRUCTION DETAILS. LOCATION

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

600 MIN. COVER TO CONDUITS. ALL CONDUITS TO Ø80mm (U.N.O.). EACH CONDUIT TO BE FITTED WITH 6mm BRAID POLYPROPYLENE ROPE TO PULL IN HAUL ROPE WITH BREAKING STRAIN OF 1.0kN. AT THE EPIT ON THE APPROACH SIDE OF THE SHELTER A Ø25mm CORRUGATED CONDUIT IS TO BE PROVIDED COMPLETE WITH 6mm BRAID POLYPROPYLENE ROPE. THE ALIGNMENT AND DEPTHS OF EXISTING SERVICES SHALL BE PROVEN ON SITE PRIOR TO ANY EXCAVATION. CONTACT "DIAL

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.

SHELTERS TO BE CONSTRUCTED AND INSTALLED TO TRANSLINK DRAWINGS 5-0402 (SUBURBAN SHELTER WITHOUT ADVERTISING MINIMUM CLEAR ACCESS OF 1.2m REQUIRED BETWEEN ALL INFRASTRUCTURE PAST ALLOCATED SPACES FOR PERSONS WITH A

2

- 3. SITE FOR FOUNDING MATERIAL

NOTE THE FOLLOWING DESIGN LOAD LIMITATIONS:

- DIFFERENCE

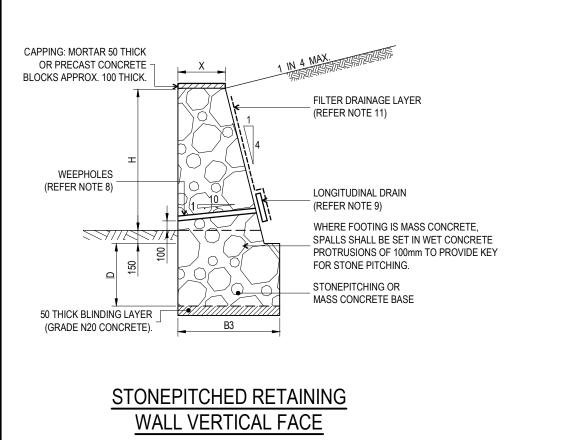
- 6 NOMINAL WIDTH.
- 7.

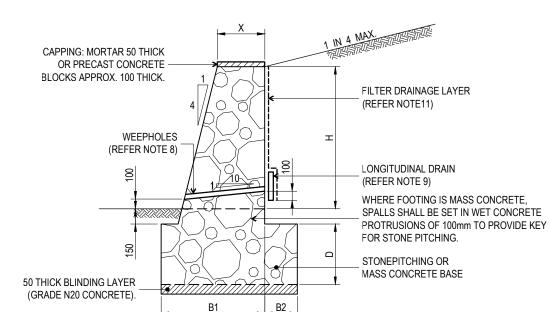
8.

- MANUFACTURERS FITTINGS
- 9
- 10

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







NOTE IF A FLATTER SLOPE TO BE ADOPTED FOR THE FRONT WALL FACE, INCREASE B1 TO SUIT. 4 IN 1 FACE SLOPE SHALL BE THE MINIMUM.

STONEPITCHED RETAINING WALL 4 IN 1 FACE SLOPE

WALL DIMENSIONS

EOR BACKELL SLOPES UP TO 1 IN / WITH 5 kPa

FILTER DRAINAGE LAYER FOR FULL

HEIGHT AND LENGTH OF WALL. USE

CORDRAIN OR EQUIVALENT OR A 300 THICK SAND\GRAVEL LAYER

(REFER NOTE 11)

LONGITUDINAL DRAIN

50 DIA UPVC WEEPHOLES

DRAIN USING STANDARD

MANUFACTURERS FITTINGS.

CONNECTED TO LONGITUDINAL

(REFER NOTE 9)

8

DRAINAGE DETAIL

SURCHARGE						
Н	Х	D	B1	B2	B3	
0-400	400	400	700	0	700	
401-750	400	400	800	250	850	
751-1000	400	500	850	400	1100	
1001-1250	450	500	1000	550	1250	
1254-1500	500	500	1100	650	1500	

PROJECT ENGINEER (RPEQ) TO VERIFY LOCATIONS OF ALL SERVICES PRIOR TO COMMENCING OF WORK AND AVOID OVERSTRESSING SERVICES FROM RETAINING WALL.

ALL WORKMANSHIP AND MATERIAL SHALL COMPLY WITH THE APPROPRIATE AUSTRALIAN STANDARDS THE ARE CURRENT AT THE TIME OF CONSTRUCTION.

THE WALLS HAVE BEEN DESIGNED IN ACCORDANCE WITH AS4678 - 2002 FOR A DESIGN LIFE OF 50 YEARS AND ON THE ASSUMPTION THAT A MINIMUM ALLOWABLE BEARING CAPACITY OF 100 kPa, A MINIMUM EFFECTIVE FRICTION ANGLE OF 32° AND BULK DENSITY OF 19 kN/m³ ARE AVAILABLE ON

- THE DESIGN IS NOT FOR VEHICLE LOADINGS HENCE A VEHICLE LOAD ON THE UPHILL LEVEL SHALL BE NO CLOSER THAN A DISTANCE WHERE A 45 DEG LINE TAKEN FROM THE REAR BOTTOM OF THE BASE INTERSECTS THE SURFACE LEVEL BEHIND THE WALL.

- THE DESIGN DOES NOT ACCOUNT FOR LOADING FROM OTHER WALLS BEHIND THE PROPOSED WALL HENCE THE PROPOSED NEW RETAINING WALL FOOTING SHALL BE SEPARATED FROM ANY EXISTING WALL FOOTINGS BY A CLEAR DISTANCE NOT LESS THEN THEIR BASE LEVEL

4. A GEOTECHNICAL ENGINEER (RPEQ) TO CERTIFY THAT THE ASSUMED GEOTECHNICAL PARAMETERS IN NOTE 3 CAN BE ACHIEVED ON SITE. IF THEY CANNOT BE ACHIEVED, A STRUCTURAL ENGINEER (RPEQ) TO BE CONSULTED TO REDESIGN THE FOOTINGS.

5. THE CONTRACTOR'S GEOTECHNICAL ENGINEER (RPEQ) SHALL CERTIFY THAT:

- THE COMBINED VERTICAL COMPACTION PRESSURES AND CONSTRUCTION SURCHARGE BEHIND THE WALL DO NOT EXCEED 5.0 kPa PRESSURE DURING CONSTRUCTION.

LATERAL COMPACTION INDUCED PRESSURES ON THE BACK OF THE WALL ARE RELIEVED BEFORE THE END OF CONSTRUCTION

- NO COMPACTION IS TO OCCUR WITHIN 300mm FROM THE BACK OF THE WALL.

MORTAR TO BE 1 PART CEMENT TO 3 PARTS SAND (BY VOLUME). FACE JOINTS TO BE 25mm

ROCKS TO BE SELECTED SPALLS SET IN CEMENT MORTAR BEDS IN HORIZONTAL LAYERS. UNLESS SPECIFIED OTHERWISE OPEN FACE STONEPITCHING TO BE USED WHERE THE MORTAR IS RECESSED 50 BEHIND THE STONE FACING. IF CLOSED FACE STONEPITCHING IS SPECIFIED, MORTAR TO BE FLUSH WITH THE STONE FACING. SELECT SPALLS TO AVOID SHARP EDGES.

INSTALL WEEPHOLES IN ADDITION TO THE LONGITUDINAL DRAIN. WEEPHOLES TO BE 50 DIA UPVC AT 1000 TO 1400 CENTRES. POSITIONED AT APPROX. 100 CONSTANT HEIGHT ABOVE ULTIMATE GROUND LEVEL AND CONNECTED TO THE LONGITUDINAL DRAIN USING STANDARD

LONGITUDINAL DRAIN SHALL BE 300x50 MEGAFLOW OR 100 DIA CORRUGATED PERFORATED POLYETHYLENE PIPE, ENCASED WITH BIDIM A24 OR EQUIVALENT. THE INVERT OF THE LONGITUDINAL DRAIN SHALL BE 100 BELOW THE INVERT OF THE WEEPHOLE INLET. PREFERABLY THE LONGITUDINAL DRAIN SHALL OUTLET TO THE KERB AND CHANNEL, STORMWATER PIPE OR GULLY AT A MINIMUM SLOPE OF 1 IN 200 AND AT 25m INTERVALS. WHERE SUCH AN OUTLET IS NOT ACHIEVABLE, THE INVERTS OF THE LONGITUDINAL DRAIN AND THE WEEPHOLE INLET SHALL BE ALIGNED TO ALLOW DIRECT DISCHARGE VIA THE WEEPHOLE.

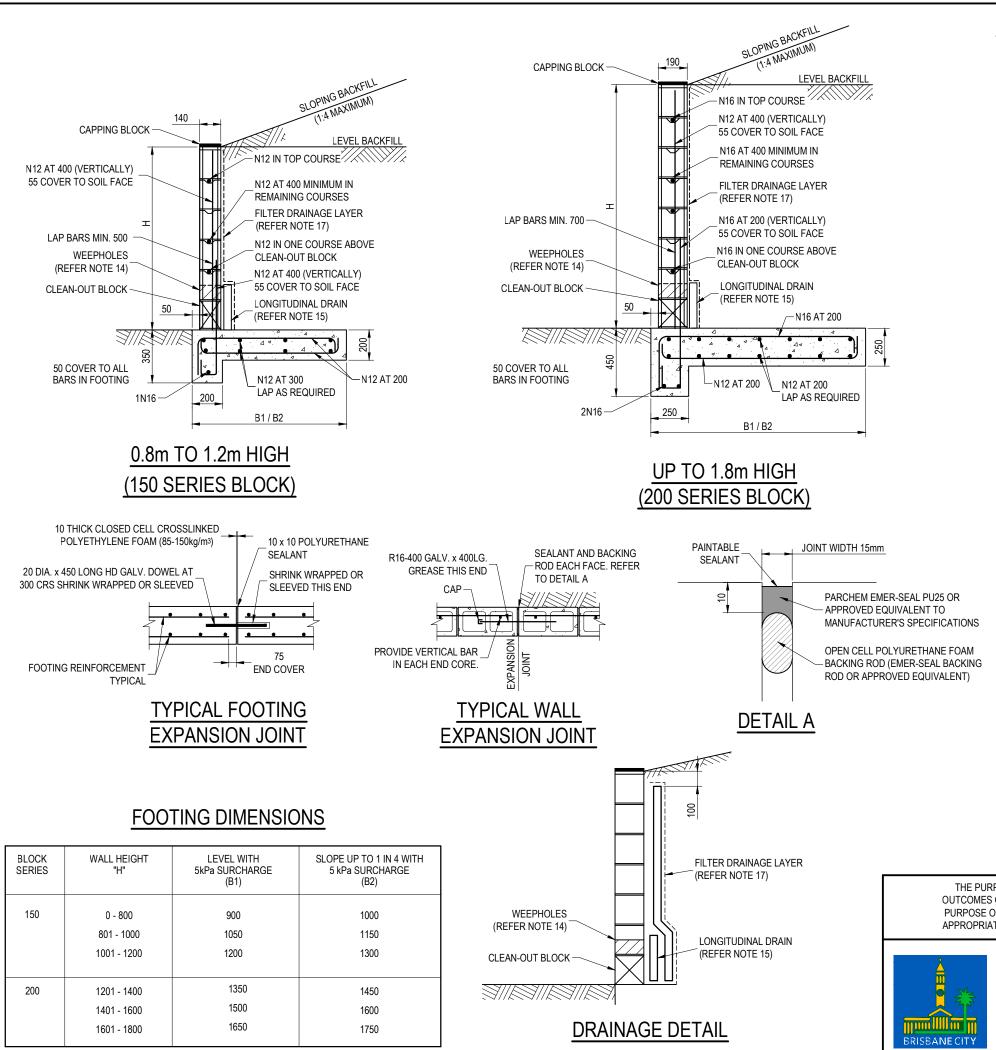
ALL CONNECTIONS. INCLUDING THE JOINING OF LENGTHS OF MEGAFLOW OR CORRUGATED PERFORATED POLYETHYLENE PIPE, SHALL BE MADE USING STANDARD MANUFACTURERS FITTINGS.

11. FILTER DRAINAGE LAYER FOR FULL HEIGHT AND LENGTH OF WALL TO BE CORDRAIN OR EQUIVALENT WITH BIDIM A24 GEOTEXTILE OR EQUIVALENT ADHERED TO BOTH SIDES. ALTERNATIVELY, A 300 THICK, FREE DRAINING FILTER SAND/GRAVEL LAYER SEPARATED FROM INSITU MATERIAL WITH A LAYER OF BIDIM A24 GEOTEXTILE.

12. BACKFILL SHALL BE FREE DRAINING, NON PLASTIC PREDOMINANTLY GRANULAR MATERIAL WITH MINIMUM EFFECTIVE FRICTION ANGLE OF 32° AND BULK DENSITY OF 19 kN/m³. DO NOT PLACE BACKFILL BEHIND THE WALL UNTIL AT LEAST 10 DAYS AFTER WALL CONSTRUCTION.

13. ALL COUNCIL RETAINING WALLS TO BE CONSTRUCTED IN THE ROAD RESERVE WHERE POSSIBLE. PRIVATE WALLS INCLUDING FOOTING TO BE CONTAINED WHOLLY WITHIN PRIVATE PROPERTY. 14. DIMENSIONS IN MILLIMETRES (U.N.O.).

JNCIL STANDARD DRAWING	PUBLISH DATE DEC 2023 SCALE		
INING WALL	NOT TO SCALE		
NEPITCHED	BSD-2221		
	ORIGINAL SIZE	REVISION	
	A3	D	



- THE TIME OF CONSTRUCTION.
- 2
- 3
- 4
- 6

 - END OF CONSTRUCTION; AND
- 7.
- 8 AS3700
- 9.
- 10.
- 11.
- 12.
- 13. REINFORCING STEEL SHALL BE GRADE D500N TO AS4671.
- 14. ULTIMATE GROUND LEVEL
- WEEPHOLE
- STANDARD MANUFACTURER FITTINGS.
- 18 FNDS TYP
- 19.
- 20. 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).



ALL WORKMANSHIP AND MATERIAL SHALL COMPLY WITH AS3600.AS3700 AND ALL OTHER RELEVANT AUSTRALIAN STANDARDS AND WORKPLACE HEALTH AND SAFETY REGULATIONS THAT ARE CURRENT AT

VERIFY LOCATIONS OF ALL SERVICES PRIOR TO COMMENCING WORK AND AVOID OVERSTRESSING AND DESTABILISING SERVICES AND EXISTING STRUCTURES DUE TO RETAINING WALL CONSTRUCTION.

THE WALLS HAVE BEEN DESIGNED IN ACCORDANCE WITH AS4678 - 2002 FOR A DESIGN LIFE OF 50 YEARS AND ON THE ASSUMPTION THAT A MINIMUM ALLOWABLE BEARING CAPACITY OF 100 KPa, A MINIMUM EFFECTIVE FRICTION ANGLE OF 32° AND BULK DENSITY OF 19 kN/m3 ARE AVAILABLE ON SITE FOR FOUNDING MATERIAL. A GEOTECHNICAL ENGINEER (RPEQ) SHALL CERTIFY THAT THE ASSUMED GEOTECHNICAL PARAMETERS IN NOTE 1 COULD BE ACHIEVED ON SITE. IF THEY CANNOT BE ACHIEVED, A STRUCTURAL ENGINEER (RPEQ) SHALL BE CONSULTED TO REDESIGN THE FOOTINGS.

THE DESIGN IS NOT FOR VEHICLE LOADINGS HENCE A VEHICLE LOAD ON THE UPHILL LEVEL SHALL BE NO CLOSER THAN "H" FROM THE REAR CAPPING EDGE. THE DESIGN DOES NOT ALLOW FOR FENCES/BALUSTRADES OR OTHER BARRIERS TO BE FIXED TO THE WALL.

BACKFILL SHALL BE FREE DRAINING, NON-PLASTIC PREDOMINANTLY GRANULAR MATERIAL WITH MINIMUM EFFECTIVE FRICTION ANGLE OF 32° AND BULK DENSITY OF 19 kN/m³. DO NOT PLACE BACKFILL BEHIND THE WALL UNTIL COREFILL REACHES A MINIMUM OF 20 MPa.

THE CONTRACTOR'S GEOTECHNICAL ENGINEER (RPEQ) SHALL CERTIFY THAT:

THE COMBINED VERTICAL COMPACTION PRESSURES AND CONSTRUCTION SURCHARGE BEHIND THE WALL DO NOT EXCEED 5.0 kPa PRESSURE DURING CONSTRUCTION;

LATERAL COMPACTION INDUCED PRESSURES ON THE BACK OF THE WALL ARE RELIEVED BEFORE THE

NO COMPACTION IS TO OCCUR WITHIN 300mm FROM THE BACK OF THE WALL

ALL CONCRETE BLOCKWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH AS3700.

BLOCKS SHALL HAVE A MINIMUM STRENGTH OF 15MPa, MORTAR IS TO BE CLASS M3 IN ACCORDANCE WITH

MORTAR FINS PROTRUDING INTO CORES TO BE REMOVED BEFORE GROUTING

ALL CORES SHALL BE FILLED WITH GROUT. WHETHER REINFORCED OR NOT.

GROUT FOR FILLING BLOCKWORK SHALL HAVE A MINIMUM CHARACTERISTIC STRENGTH OF 25 MPa (REFER AS3700) WITH A SLUMP OF 230 +/- 30. MAXIMUM AGGREGATE SIZE SHALL BE 10mm.

CONCRETE FOOTINGS ARE BASED ON EXPOSURE CLASSIFICATION A2 IN ACCORDANCE WITH AS3600. CONCRETE GRADE SHALL BE N25 MINIMUM. A STRUCTURAL ENGINEER (RPEQ) SHALL BE CONSULTED TO REDESIGN THE FOOTINGS IF A WORSE EXPOSURE CLASSIFICATION IS FOUND ON SITE.

INSTALL WEEPHOLES IN ADDITION TO THE LONGITUDINAL DRAIN FOR MAINTENANCE AND OVERFLOW PURPOSES. WEEPHOLES TO BE A VERTICAL JOINT VOID OF MORTAR ON THE LOWER HALF OF THE JOINT. SPACED AT 1000 MAX. CENTRES, AND POSITIONED AT A CONSTANT HEIGHT OF APPROXIMATELY 200 ABOVE

15. LONGITUDINAL DRAIN SHALL BE 300x50 MEGAFLOW OR STRIP DRAIN OR 100 DIA. CORRUGATED PERFORATED POLYETHYLENE PIPE. ENCASED WITH BIDUM A24 OR EQUIVALENT. THE INVERT OF THE LONGITUDINAL DRAIN SHALL BE 200 BELOW THE INVERT OF THE WEEPHOLE INLET. THE LONGITUDINAL DRAIN SHALL OUTLET TO THE KERB AND CHANNEL, STORMWATER PIPE OR GULLY AT A MINIMUM SLOPE OF IN 200 AND AT 25m INTERVALS. WHERE SUCH AN OUTLET IS NOT ACHIEVABLE, THE INVERTS OF THE LONGITUDINAL DRAIN AND THE WEEPHOLE INLET SHALL BE ALIGNED TO ALLOW DIRECT DISCHARGE VIA THE

16. ALL CONNECTIONS, INCLUDING THE JOINING OF LENGTHS OF STRIP DRAIN, SHALL BE MADE USING

17. FILTER DRAINAGE LAYER FOR FULL HEIGHT AND LENGTH OF WALL SHALL BE CORDRAIN OR APPROVED EQUIVALENT WITH BIDUM A24 OR APPROVED EQUIVALENT ADHERED TO ONE SIDE ABUTTING THE BACKFILL ALTERNATIVELY, A 300 THICK FREE DRAINING, FILTER SAND/GRAVEL LAYER SEPARATED FROM THE INSITU MATERIAL BY TYPE BIDUM A24 OR EQUIVALENT IS ACCEPTABLE.

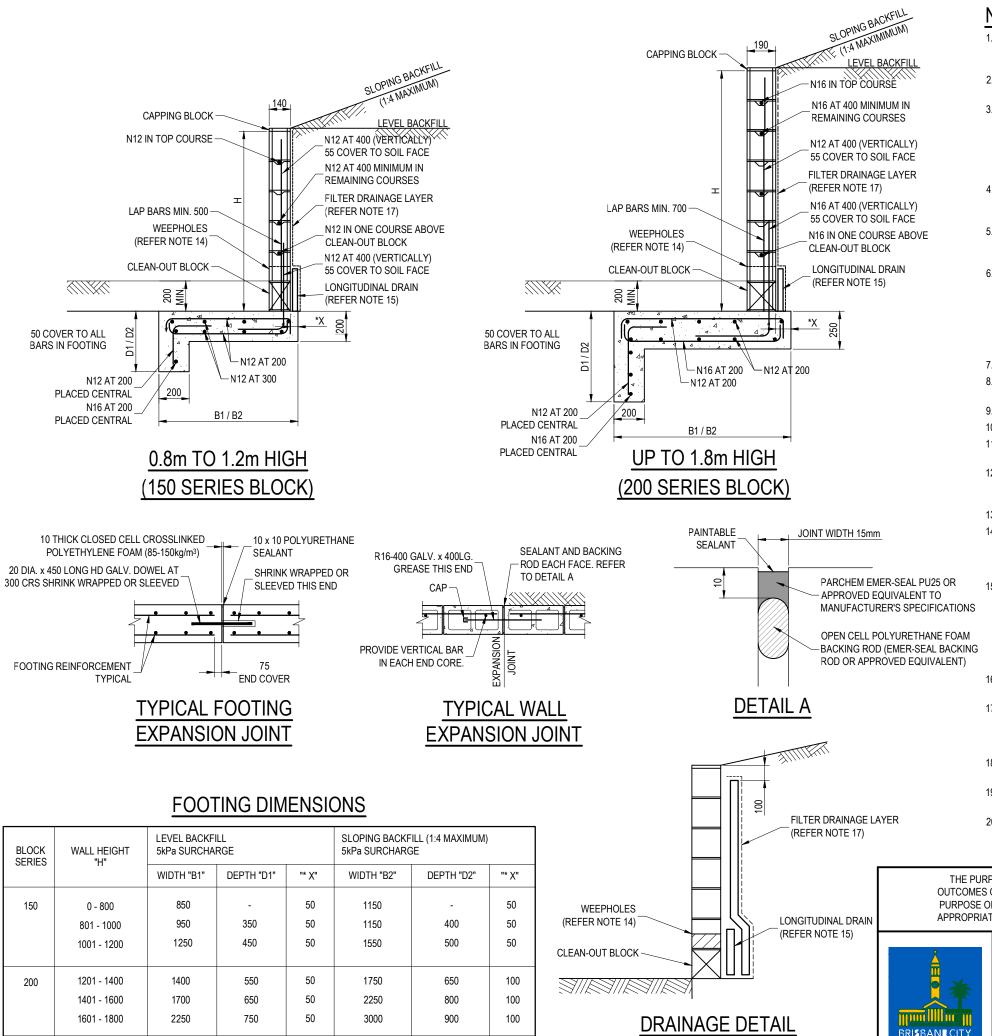
PROVIDE EXPANSION JOINTS IN WALLS AND FOOTINGS AT 12m MAX CRS. AND 6m MAX FROM CORNERS AND

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JNCIL STANDARD DRAWING	PUBLISH DATE JUN 2023	
	SCALE NOT TO SCALE	
INING WALL	DRAWING NUMBER	
RETE BLOCK	BSD-2222	
1 FOOTING	ORIGINAL SIZE	REVISION
	A3	С

- THE TIME OF CONSTRUCTION.
- 2.
- 4
- 6.

 - END OF CONSTRUCTION; AND
- 7.
- WITH AS3700.
- 9
- 10
- 11 12.
- 13. REINFORCING STEEL SHALL BE GRADE D500N TO AS4671. 14
- 200 ABOVE ULTIMATE GROUND LEVEL
- 15 THE WEEPHOLE.
- 16. STANDARD MANUFACTURER FITTINGS.
- AND ENDS TYPICALLY
- 19
- 20. DIMENSIONS IN MILLIMETRES (U.N.O.).
- BRISBANE CITY COL RETA CONC



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TY COUNCIL STANDARD DRAWING	PUBLISH DATE JUN 2023	
	SCALE NOT TO SCALE	
RETAINING WALL	DRAWING NUMBER	
CONCRETE BLOCK	BSD-2223	
TYPE 2 FOOTING	ORIGINAL SIZE	REVISION
	A3	С