

NTABLE (NON BUS	600 NFK 75R 600 600 INVERT
OR EXTRUDED) CONCRETE TO BE GRADE S	32, MINIMUM CEMENT CONTENT
III - D AS PER THE INFRASTRUCTURE DESIGN PL SITU) CONCRETE TO BE GRADE N25.	ANNING SCHEME POLICY (IDPSP).
N SITU) CONCRETE MUST NOT EXCEED 20m CES AND KERB RAMPS).	IN CONTIGUOUS LENGTHS
PROVIDE A MINIMUM DEPTH OF 230mm CLEA	
INKAGE CONTROL JOINTS AT REGULAR INTE BY 6mm WIDE.	
IERE THE KERB AND CHANNEL ABUTS SUBST IRECTED. WHERE RELEVANT, LOCATE JOINT STRUCTURES SUCH AS RIGID PAVEMENTS ING 10mm THICK COMPRESSIBLE PACKING F	S TO LINE UP WITH THE AND CONCRETE SLABS.
KING STRIP MAY BE USED FOR KERB AND C	HANNEL WITH LANDSCAPING
N.O.).	
ING IS TO PROVIDE TYPICAL DETAILS THAT \$ 14 AND ASSOCIATED PLANNING SCHEME PO R A SPECIFIC PROJECT SHOULD BE ASSESS (OR REGISTERED PROFESSIONAL ENGINEER	LICIES. THE FITNESS FOR ED AND ACCEPTED BY AN
UNCIL STANDARD DRAWING	PUBLISH DATE SEP 2024
	SCALE NOT TO SCALE DRAWING NUMBER

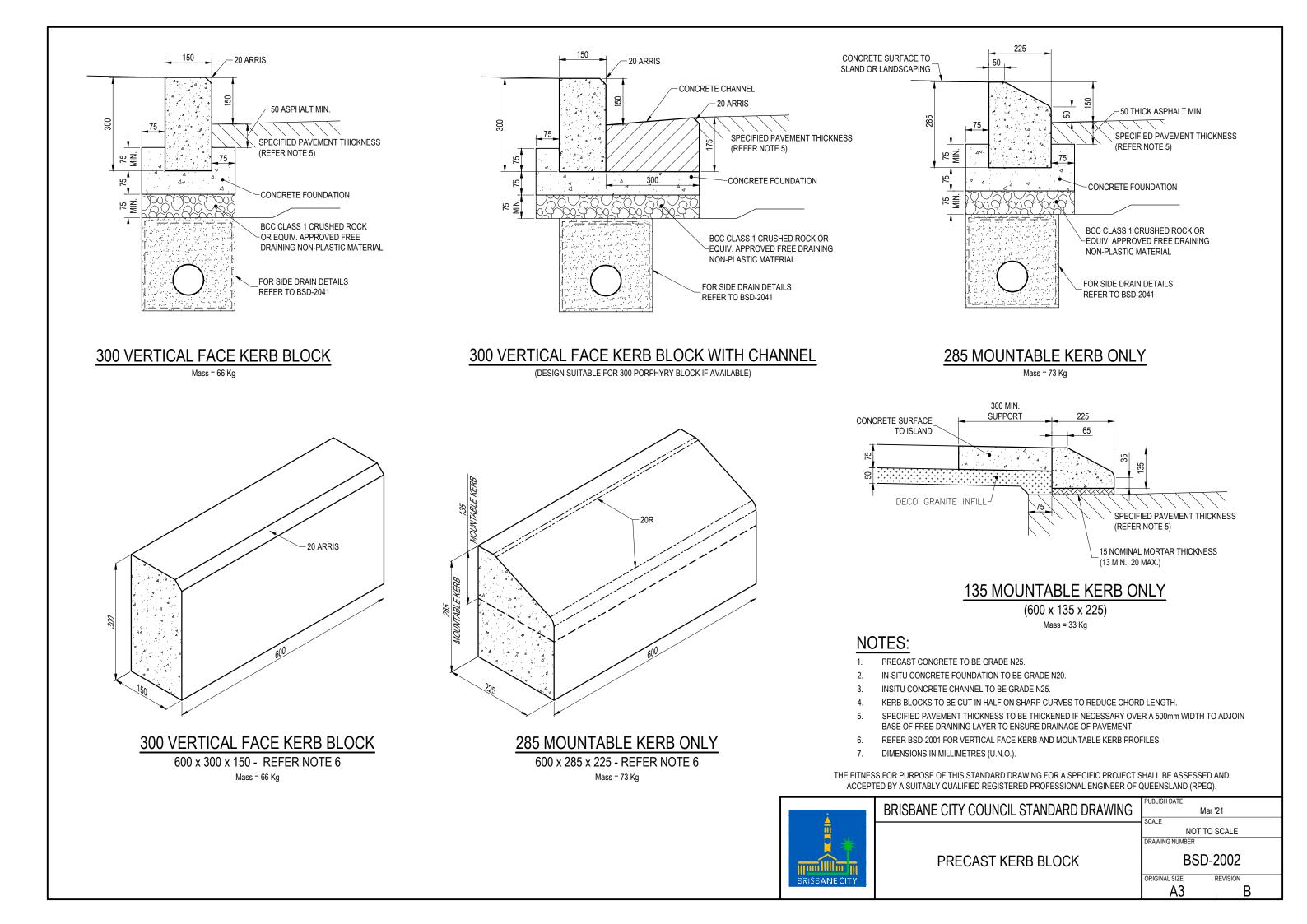
KERB PROFILES

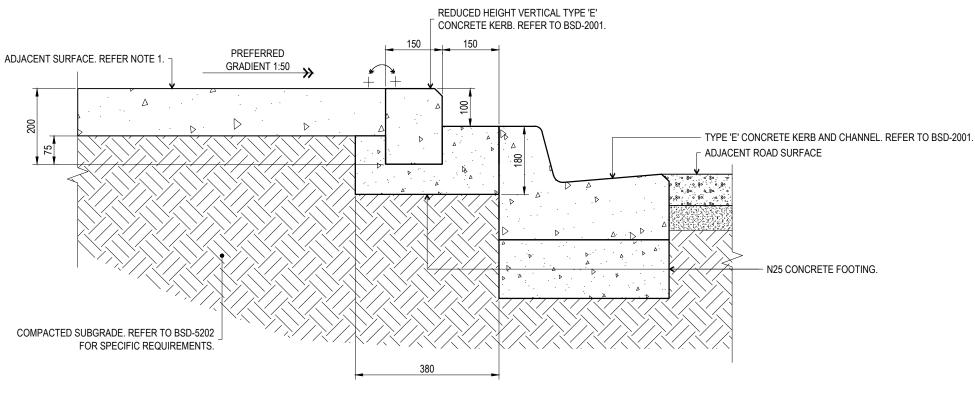
 DRAWING NUMBER

 BSD-2001

 ORIGINAL SIZE

 A3

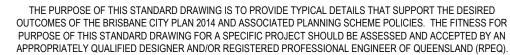




SECTION

GENERAL NOTES

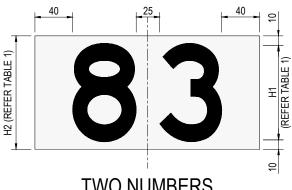
- REFER TO CHAPTER 3 AND CHAPTER 5 THE INFRASTRUCTURE DESIGN PLANNING 1. POLICY (IDPSP) FOR REQUIRED FOOTPATH SURFACE FINISH.
- 2. REFER TO BSD-5202 FOR STANDARD CONCRETE FOOTPATH DETAILS AND SPECIFICATIONS.
- 3. REFER TO BSD-5214 FOR ASPHALT PATHWAY DETAILS AND SPECIFICATION.
- 4. DOUBLE KERB TO BE 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 (U.N.O.).





R A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN OR REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).			
JNCIL STANDARD DRAWING		2024	
JBLE KERB FOOTPATH ONLY	DRAWING NUMBER	•2003	
	ORIGINAL SIZE		

40 40 ÷ (REFER TABLE 업 9 ONE NUMBER



TWO NUMBERS

⊢²⁵−

40

H1 (REFER TABLE 1)

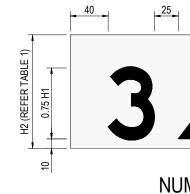
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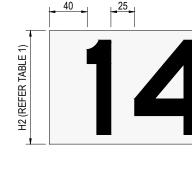
25

40

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

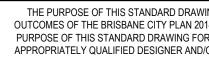
	NUMBERING HEIGHT					
NUMBERING LOCATION	DESIRABLE MININ		MUM MAXIMUM		MUM	
NUMBERING LOCATION	H1	H2	H1	H2	H1	H2
KERB FACE	100	120	80	100	110	130
DRIVEWAY APRON/WING	110	130	100	120	110	130



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

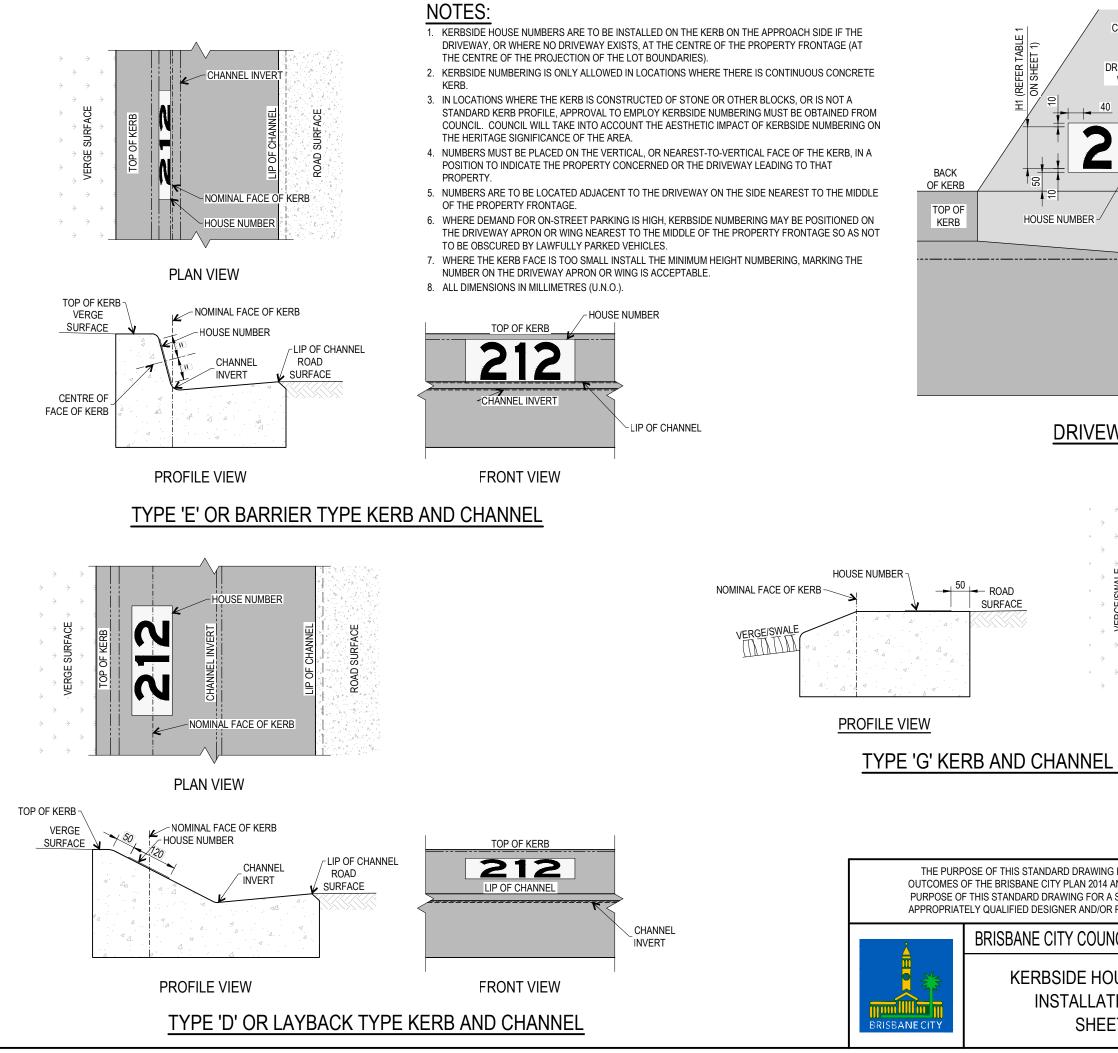
THREE NUMBERS

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

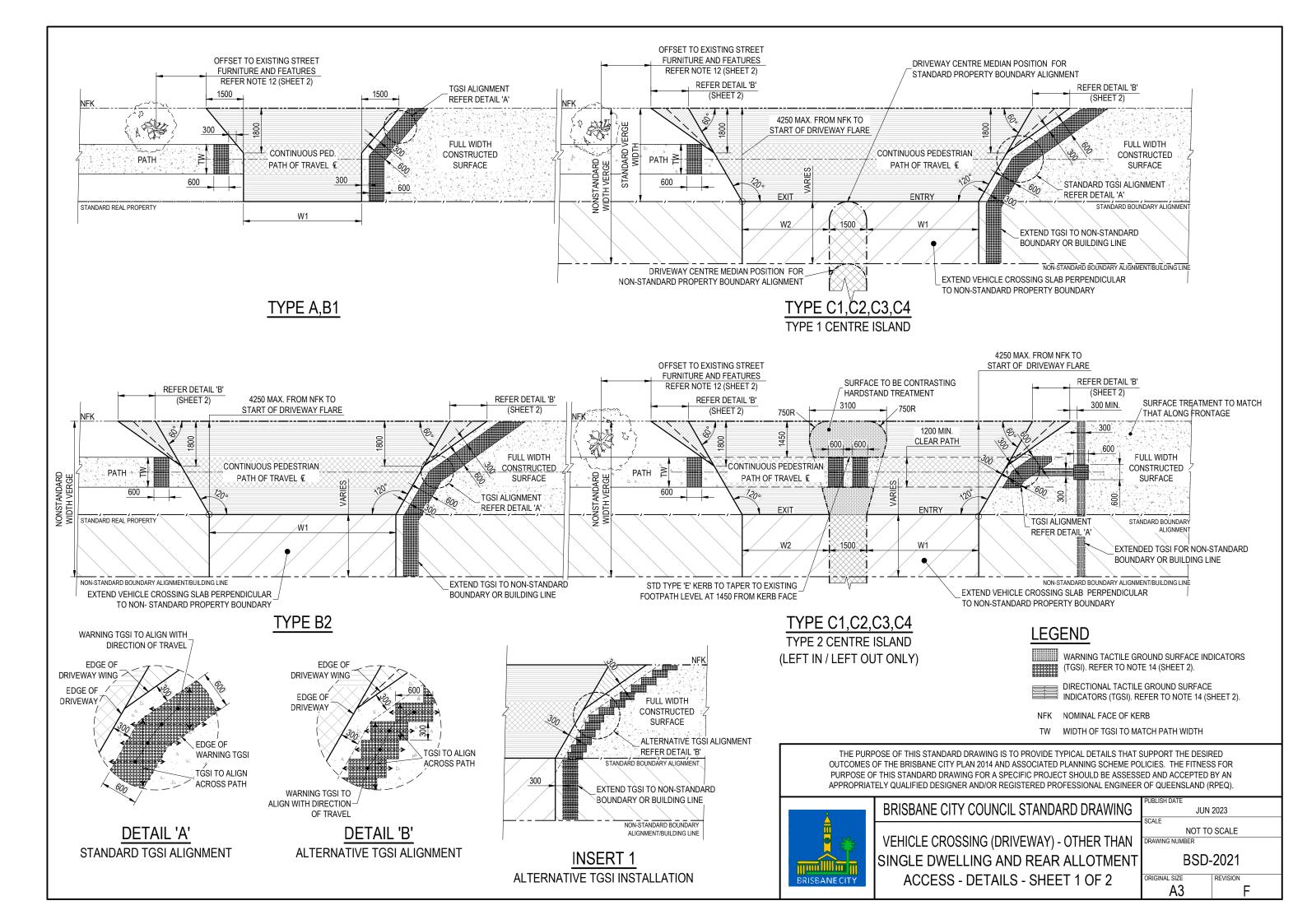


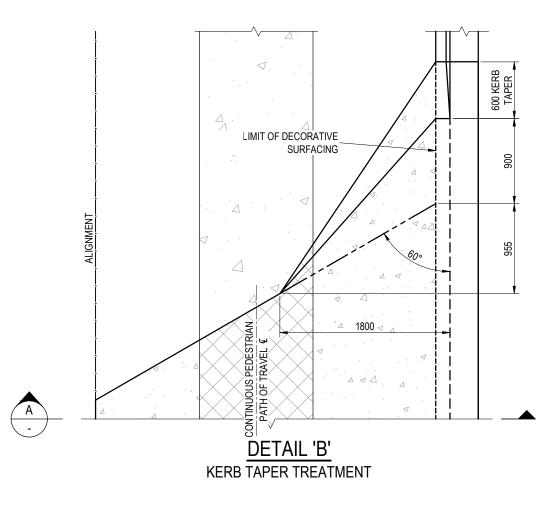


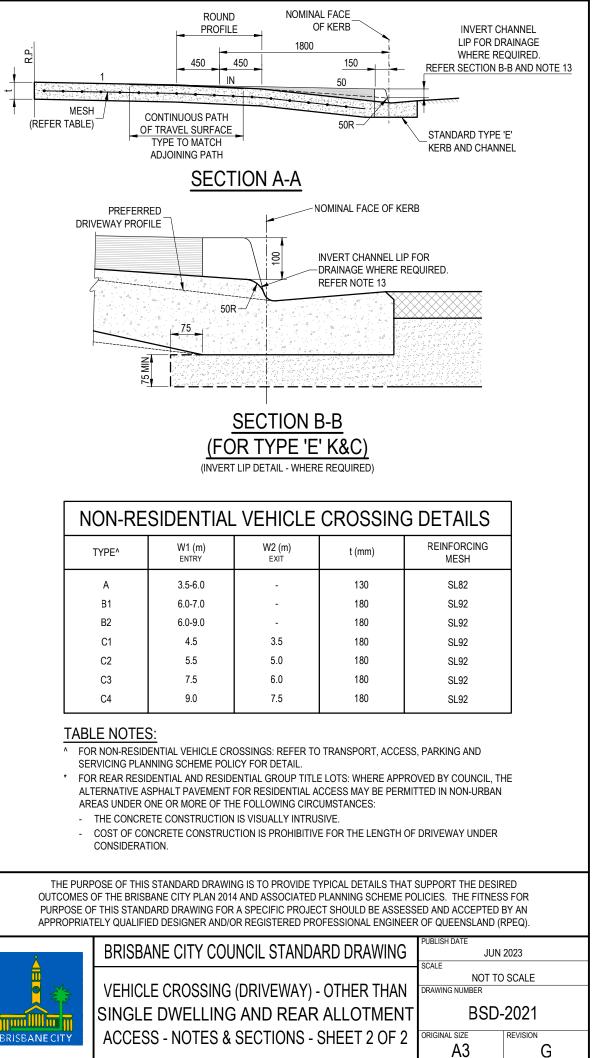
⁵ ²⁵ ⁴⁰	e
5 A	10 0.75 H1
BETICAL SUFFIX	
/ 15	H (RIFER TABLE 1)
<u>IBER PREFIX</u>	9
29	(REFER TABLE 1)
JR NUMBERS	6
NG IS TO PROVIDE TYPICAL DETAILS THAT 14 AND ASSOCIATED PLANNING SCHEME PC R A SPECIFIC PROJECT SHOULD BE ASSESS OR REGISTERED PROFESSIONAL ENGINEEI	DLICIES. THE FITNESS FOR SED AND ACCEPTED BY AN
JNCIL STANDARD DRAWING	PUBLISH DATE JUN 2023 SCALE
OUSE NUMBERING ER LAYOUTS	NOT TO SCALE DRAWING NUMBER BSD-2004
EET 1 OF 2	A3 REVISION

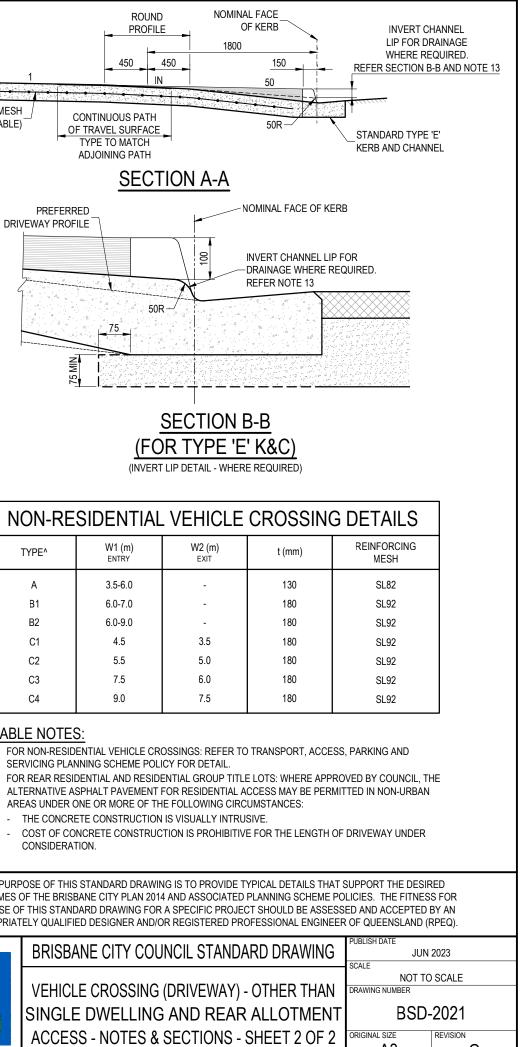


CREASE LINE DRIVEWAY WING 40 40 40 40 40 40 40 40 40 40 40 40 40	RIVEWAY	
NOMINAL FACE OF	KERB	
EWAY APRON/WING	ROAD FACE OF KERB ROAD SURFACE ROAD SURFACE	IUMBER FACE OF KERB
PLAN VIEW		
ING IS TO PROVIDE TYPICAL DETAILS THAT S 14 AND ASSOCIATED PLANNING SCHEME PO R A SPECIFIC PROJECT SHOULD BE ASSESS OR REGISTERED PROFESSIONAL ENGINEER	LICIES. THE FITNES ED AND ACCEPTED I	S FOR BY AN
JNCIL STANDARD DRAWING	JUN	2023
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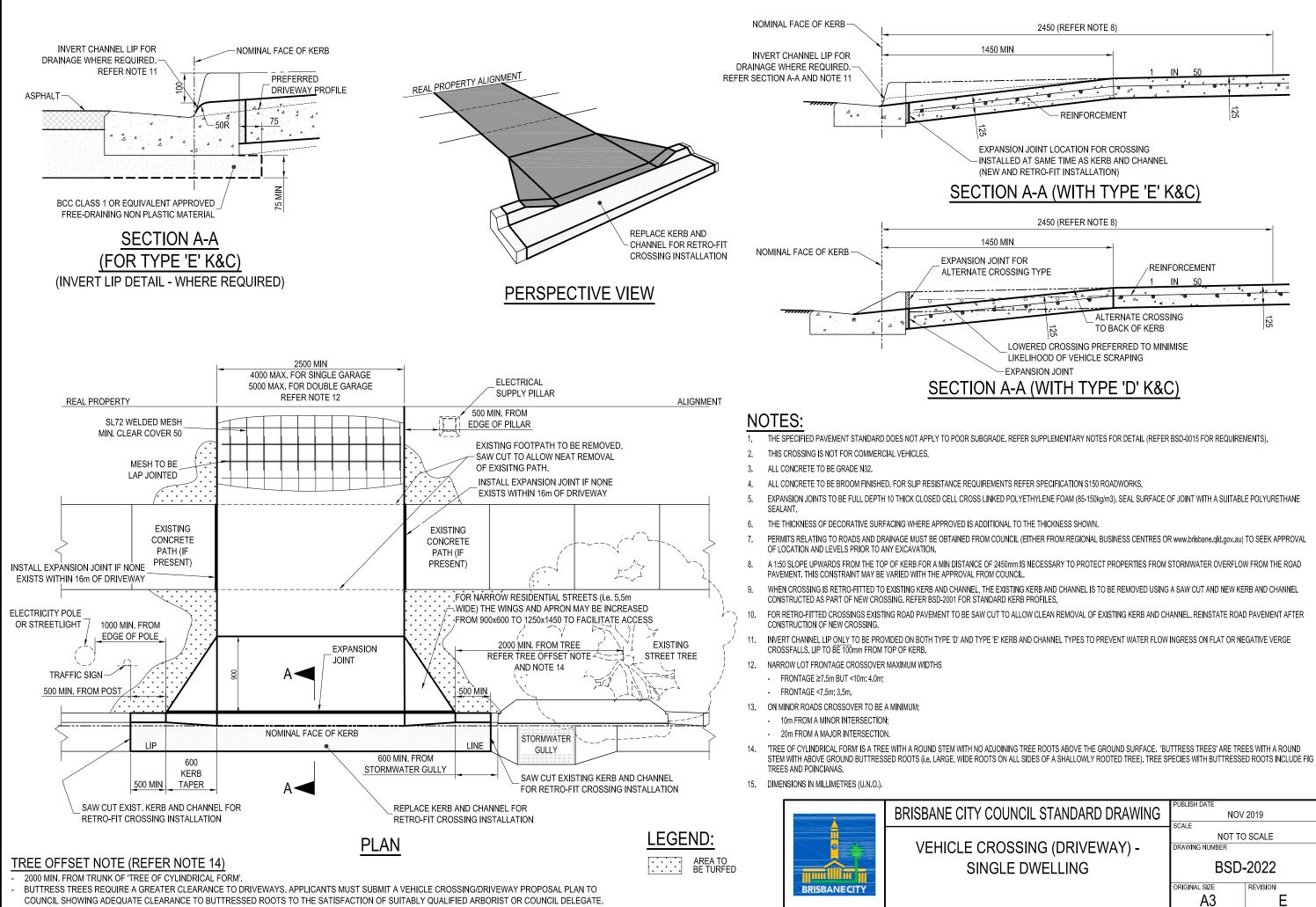


NON-RESIDENTIA		
TYPE^	W1 (m) ENTRY	
A	3.5-6.0	
B1	6.0-7.0	
B2	6.0-9.0	
C1	4.5	
C2	5.5	
C3	7.5	
C4	9.0	

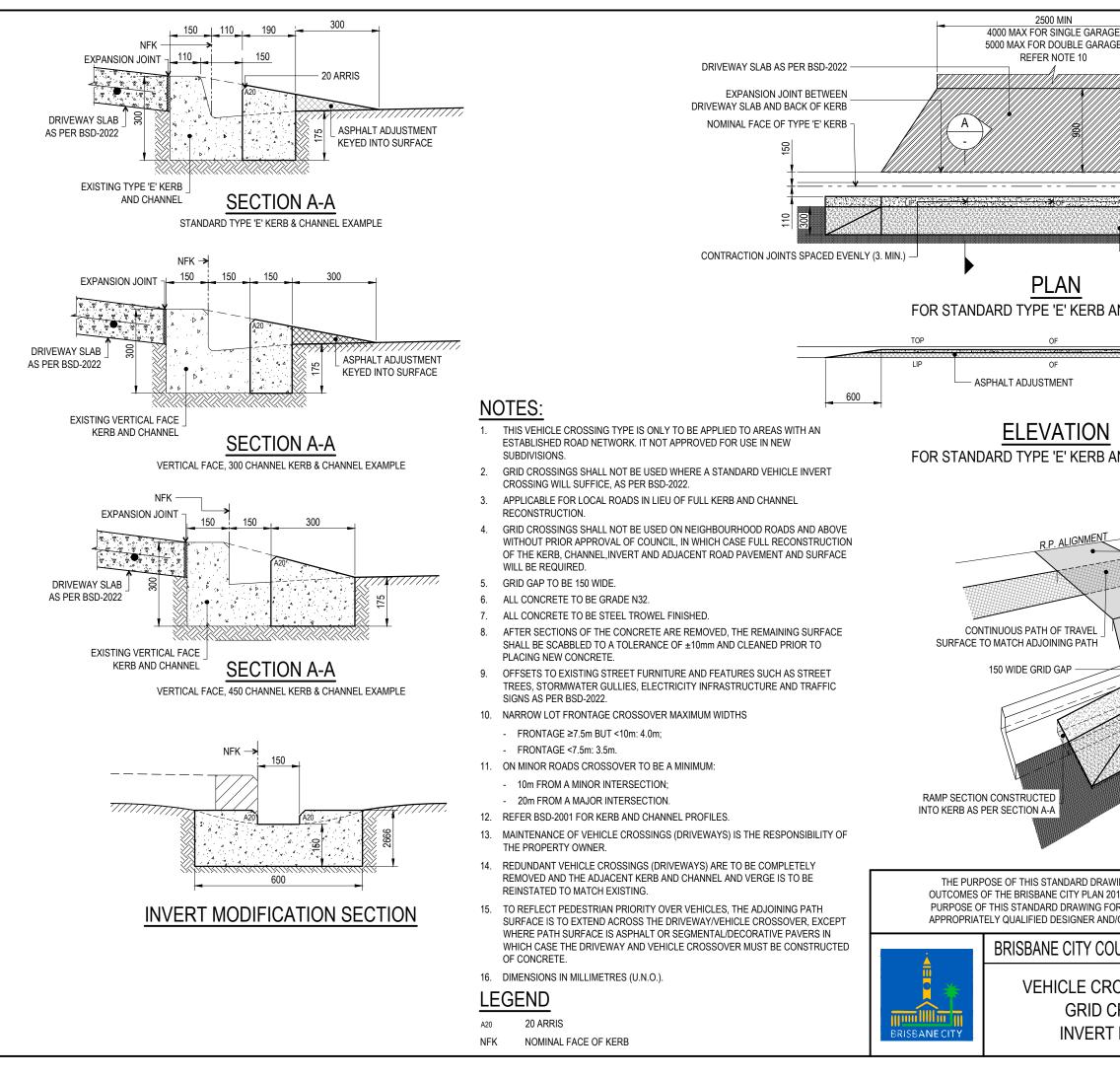


- THE SPECIFIED PAVEMENT STANDARD DOES NOT APPLY TO POOR SUBGRADE. REFER SUPPLEMENTARY NOTES (BSD-0019) FOR DETAIL.
- ALL CONCRETE TO BE GRADE N32. 2
- REINFORCEMENT AS PER TABLE, MIN. LAP 210MIN, MIN. CLEAR TOP COVER 50mm. 3.
- 4 ALL CONCRETE TO BE BROOM FINISHED FOR SLIP RESISTANCE REQUIREMENTS REFER 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.

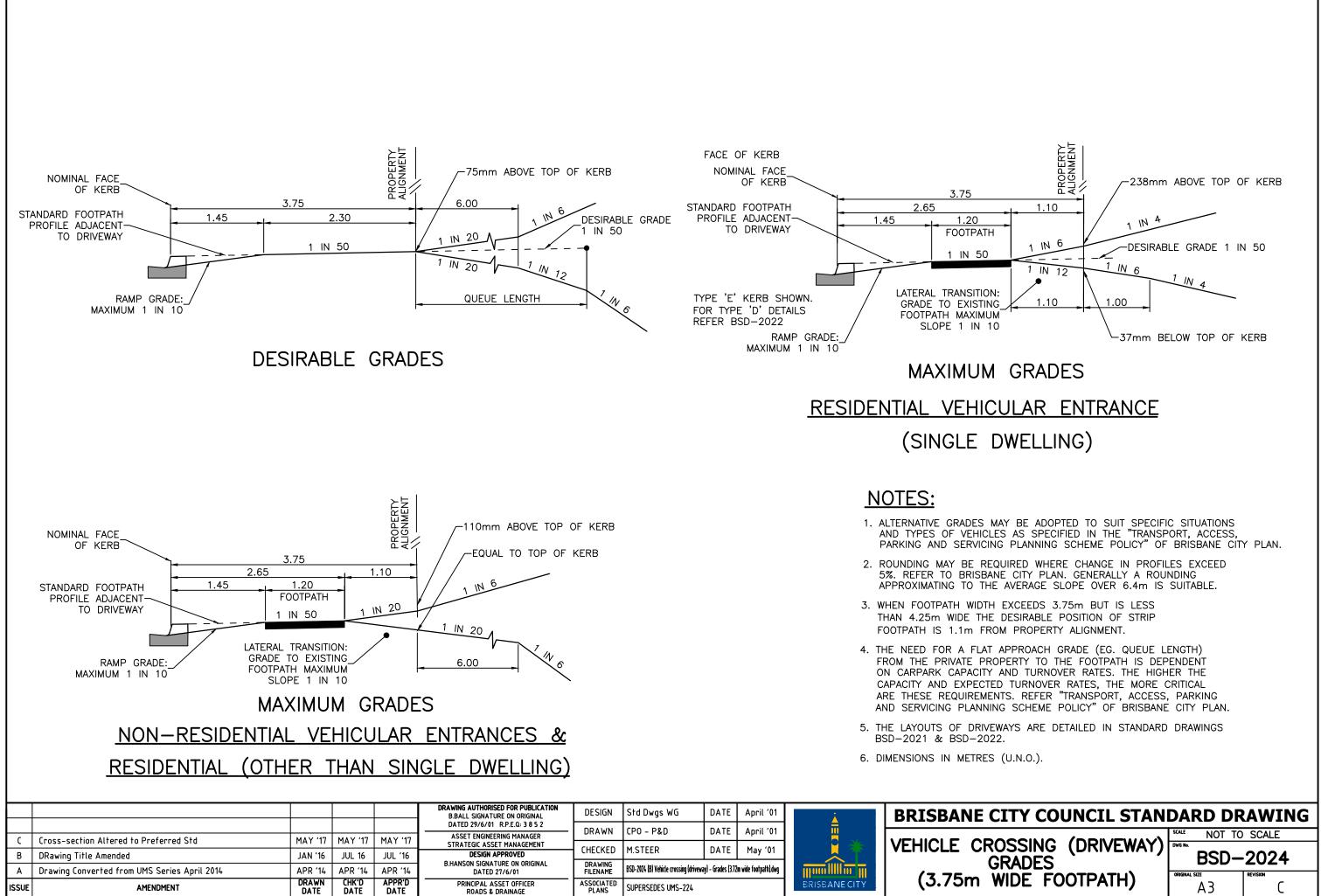
- 13. INVERT CHANNEL LIP ONLY TO BE PROVIDED ON BOTH TYPE 'D' AND TYPE 'E' KERB AND CHANNEL TYPES TO PREVENT WATER FLOW INGRESS ON FLAT OR NEGATIVE VERGE CROSSFALLS. LIP TO BE 100mm FROM TOP OF KERB
- 14. TGSI TYPE, COLOUR AND INSTALLATION AS PER BSD-5218. TGSI TO COMPLY WITH AS1428.4.1.
- 15. DESIGN 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.).

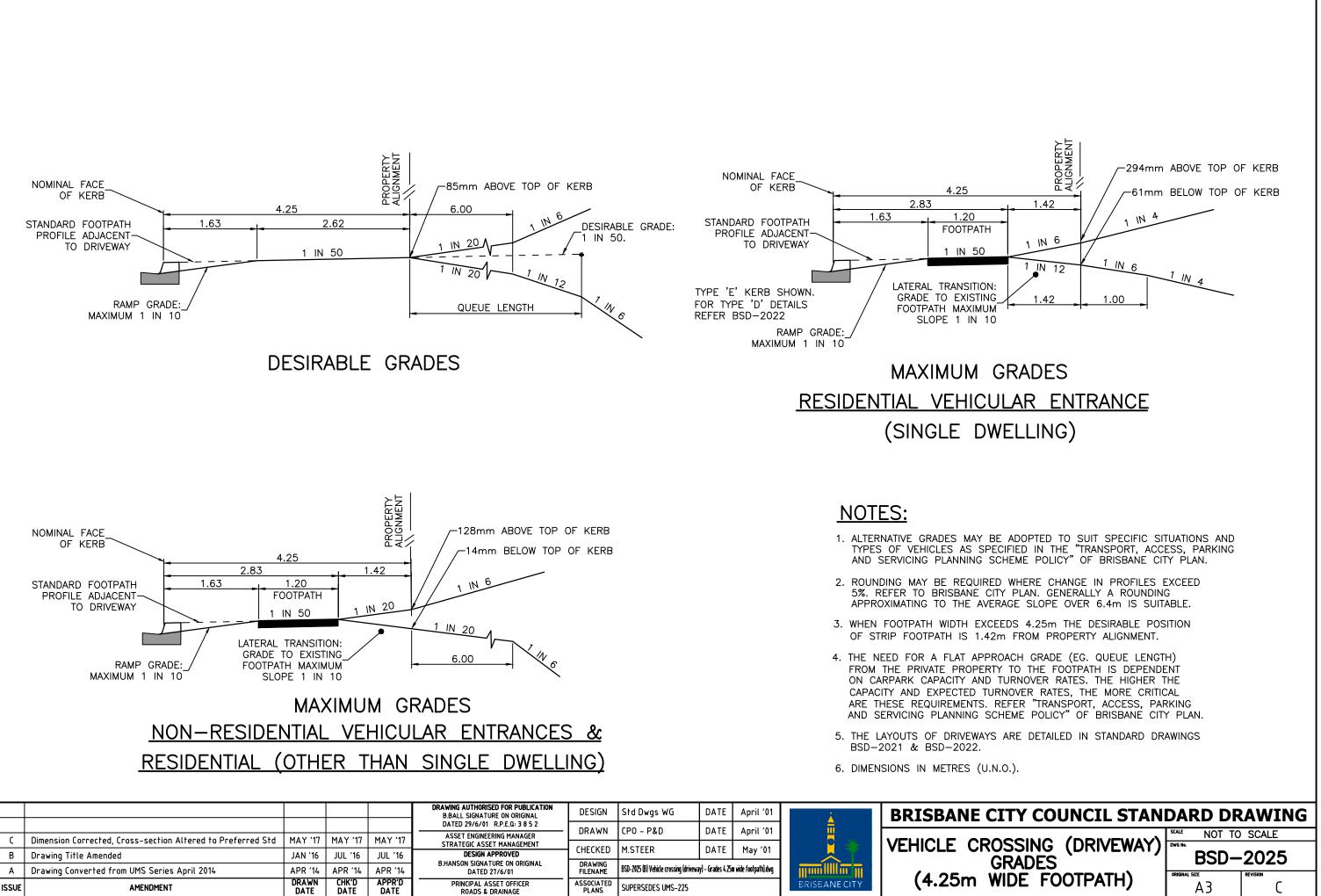


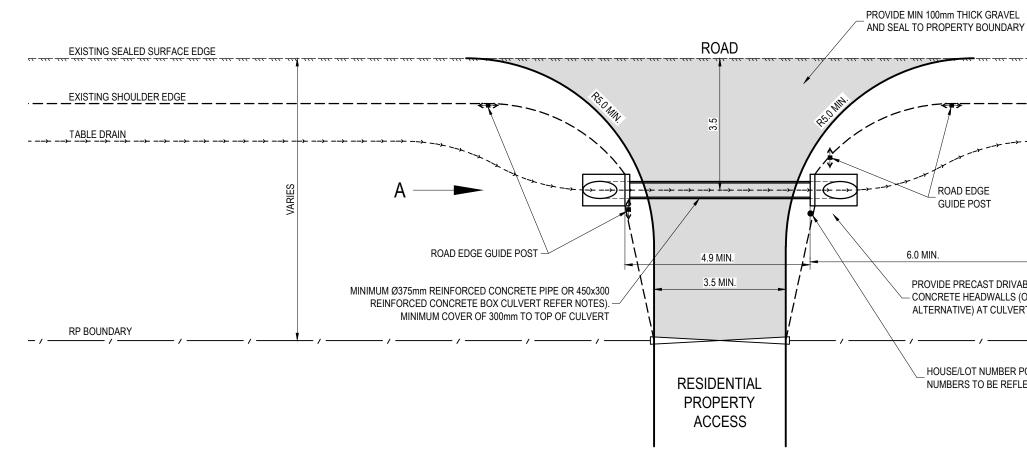
JNCIL STANDARD DRAWING		2019
	SCALE NOT TC	SCALE
SSING (DRIVEWAY) -	DRAWING NUMBER	
E DWELLING	BSD-	2022
	ORIGINAL SIZE	REVISION
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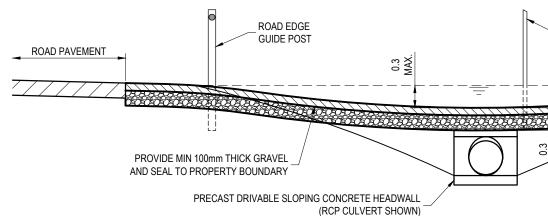
600 KERS TAPER FURNITURE A REFER	ND FEATURES NOTE 9 BACK OF KER	
	NOMINAL FACE OF	
ASPHALT ADJUSTMENT		
	WN TO CHANNEL	
KERB	_	
600		
ND CHANNEL		
DRIVEWA	Y SLAB AS PER BSD-	2022
		Marine -
A	gu-	
	ALT ADJUSTMENT K SURFACE AS PER S	
	ID CROSS TORIAL VI	
NG IS TO PROVIDE TYPICAL DETAILS THAT S	SUPPORT THE DESIG	RED
14 AND ASSOCIATED PLANNING SCHEME PO R A SPECIFIC PROJECT SHOULD BE ASSESS	LICIES. THE FITNES	S FOR
OR REGISTERED PROFESSIONAL ENGINEER		
JNCIL STANDARD DRAWING	SCALE	2024
DSSING (DRIVEWAY)	NOT TC DRAWING NUMBER	SCALE
ROSSING AND	BSD-	2023
MODIFICATION	ORIGINAL SIZE	







PLAN VIEW



END ELEVATION 'A'

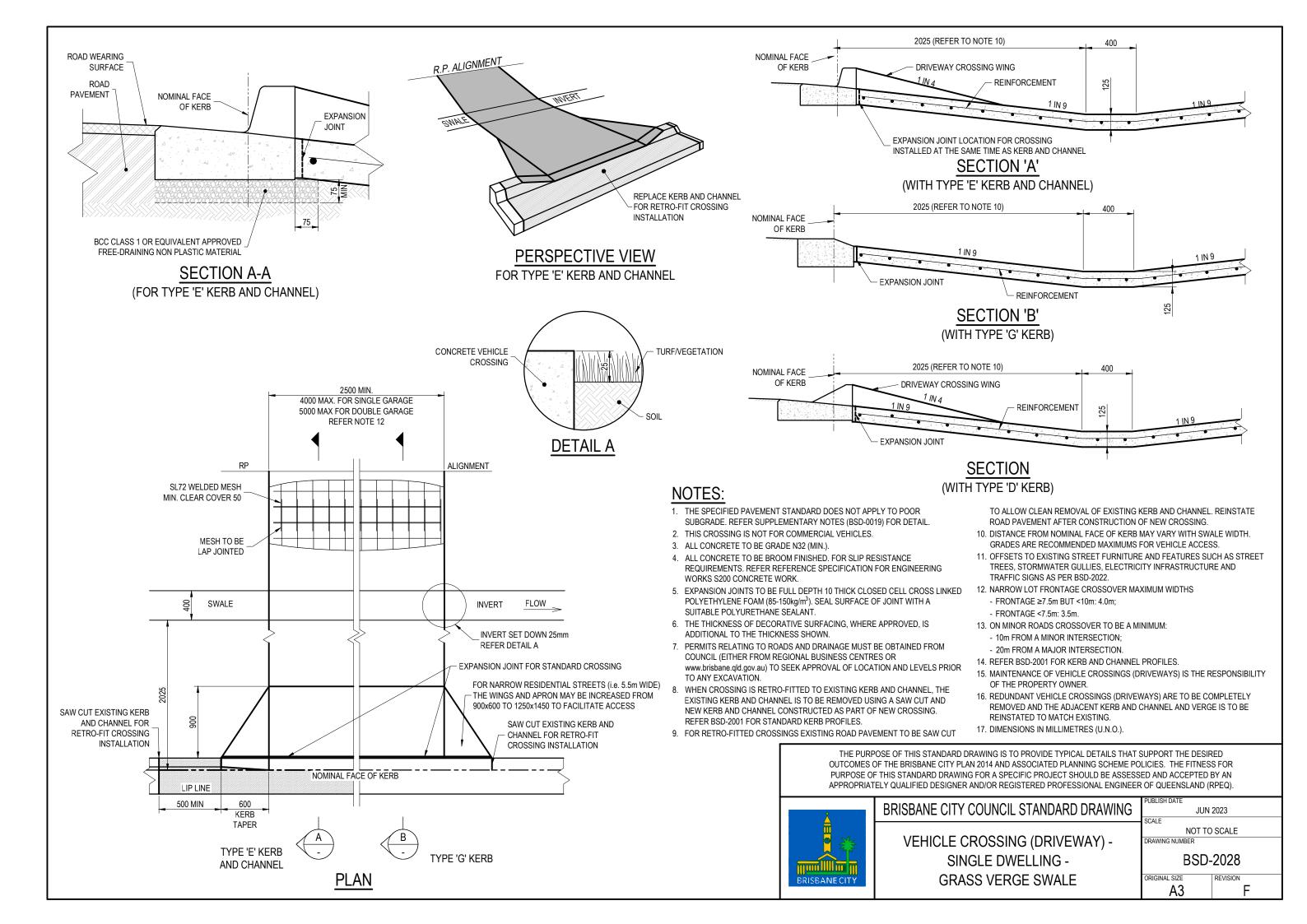
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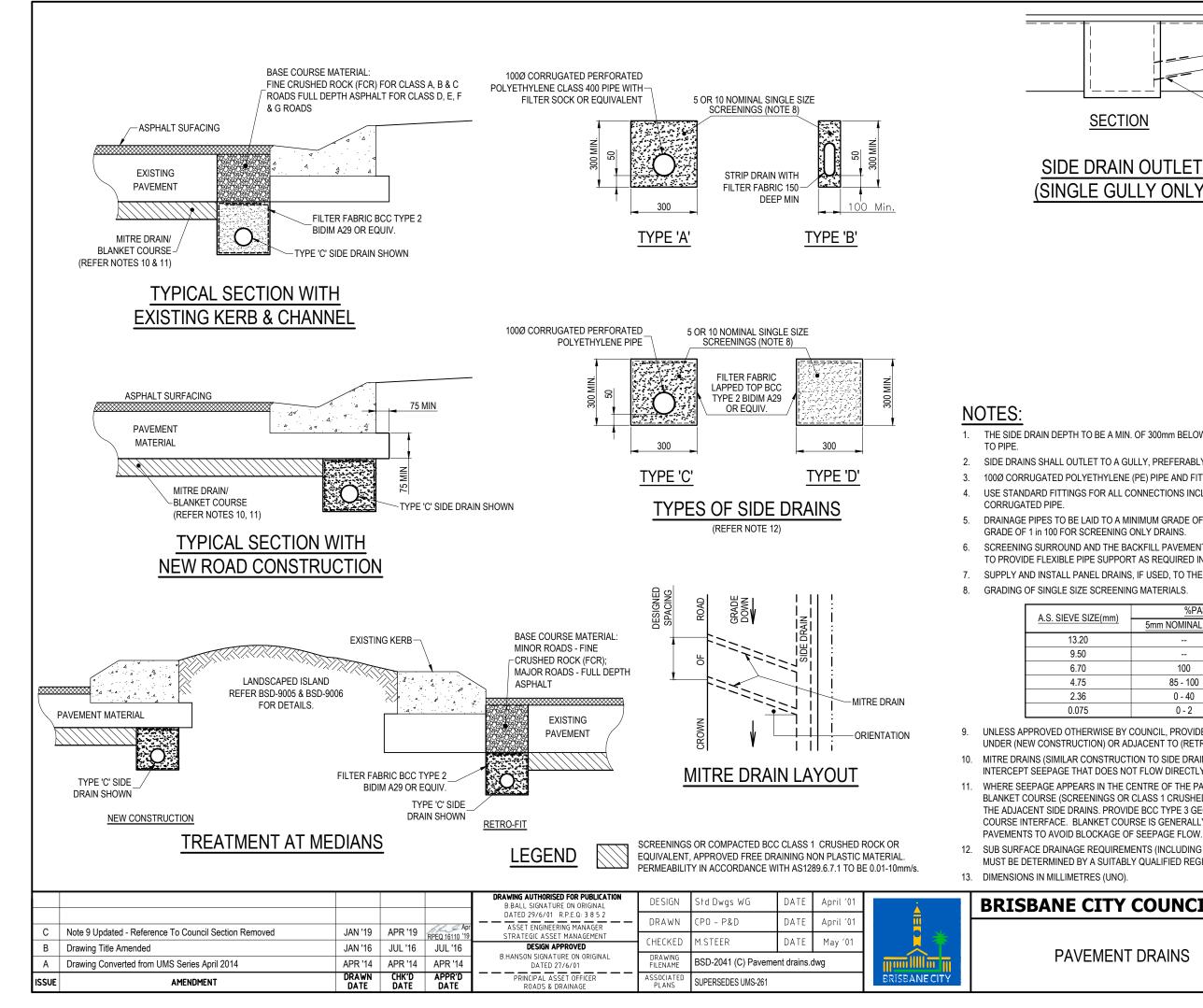
- 1. PIPE OR BOX CULVERT CROSSINGS ARE NOT TO BE INSTALLED ON ROADS THAT FALL TO THE SUBJECT PROPERTY OR WHERE STORM WATER CANNOT BE DIRECTED TO A NATURAL WATER COURSE OR DRAINAGE EASEMENT.
- 2. PROVIDE ROCK, CONCRETE OR STABILISED TURF PROTECTION TO TABLE DRAINS AND OUTLETS WHERE PRONE TO SCOUR.
- 3. 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.).

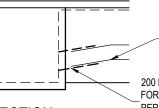
THE FITNESS FOR PURPOSE OF THIS STAND. ACCEPTED BY A SUITABLY QUALIFIED RE



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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				
ROAD EDGE GUIDE POST				
NIM		İ		
ARD DRAWING FO	OR A SPECIFIC PROJECT S	HALL BE ASSESSE) AND	
EGISTERED PROFE	ESSIONAL ENGINEER OF (QUEENSLAND (RPEG	λ).	
JNCIL STANE	DARD DRAWING	Ma	r '21	
OPERTY A	CCESS	DRAWING NUMBER) SCALE	
RT CROSSI			-2026	
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)			
_(11111)	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			
	SCALE NOT TO	SCALE	
IENT DRAINS	DWG NO. BSD-	-2041	
	ORIGINAL SIZE		

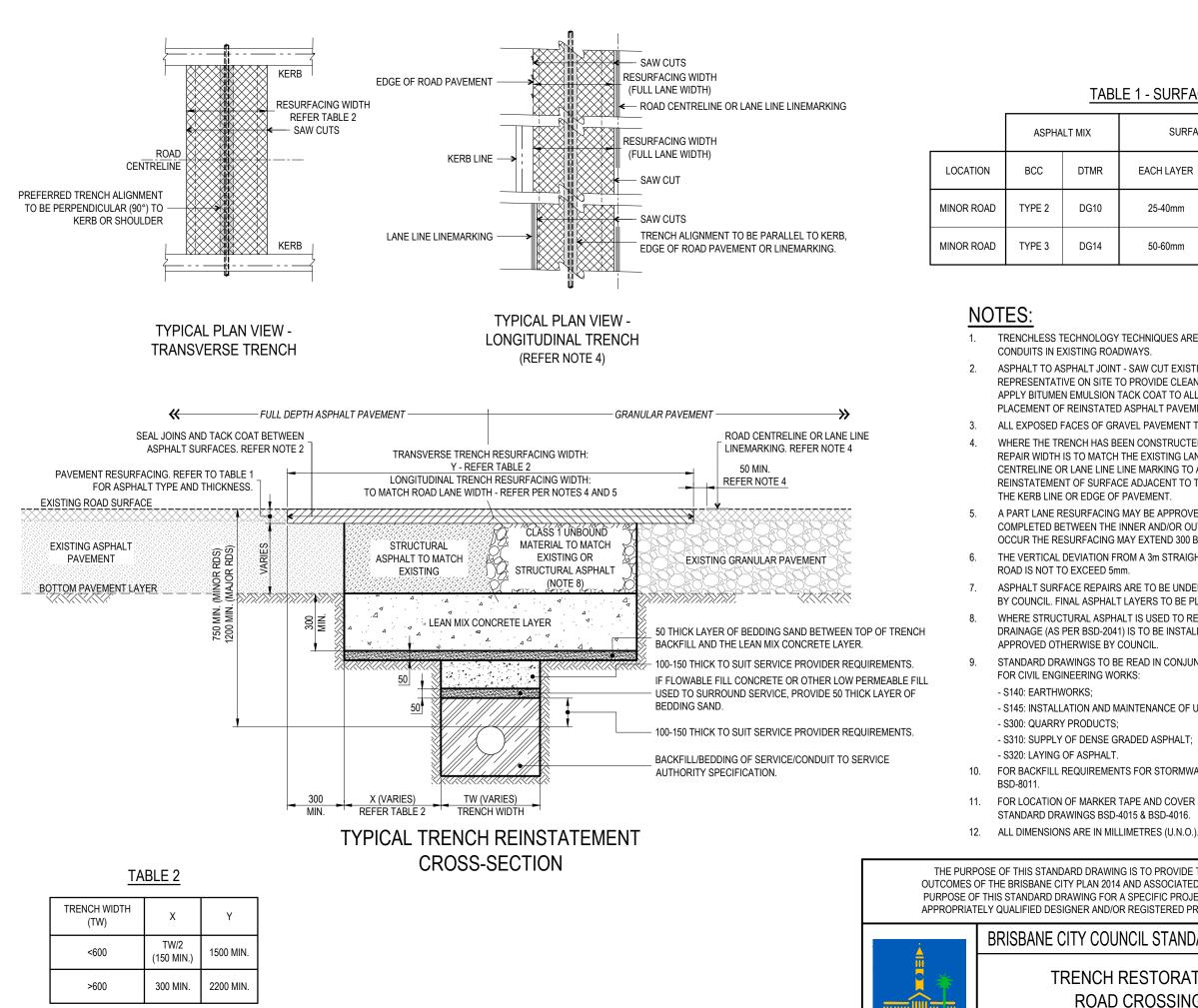


TABLE 1 - SURFACE LAYER

	SURFACE THICKNESS (EXCLUDING PAVEMENT)		
EACH LAYER		TOTAL	
	25-40mm	MIN. 50mm OR ADJACENT ASPHALT THICKNESS, WHICHEVER IS GREATER	
	50-60mm	MIN. 100mm OR ADJACENT ASPHALT THICKNESS, WHICHEVER IS GREATER	

TRENCHLESS TECHNOLOGY TECHNIQUES ARE THE PREFERRED METHOD FOR ROAD CROSSING SERVICES

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 SEALING OPERATIONS.

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

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

ASPHALT SURFACE REPAIRS ARE TO BE UNDERTAKEN WITHIN 24 HOURS UNLESS APPROVED OTHERWISE BY COUNCIL. FINAL ASPHALT LAYERS TO BE PLACED BY PAVING MACHINE.

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

STANDARD DRAWINGS TO BE READ IN CONJUNCTION WITH THE FOLLOWING REFERENCE SPECIFICATIONS

- S145: INSTALLATION AND MAINTENANCE OF UTILITY SERVICES;

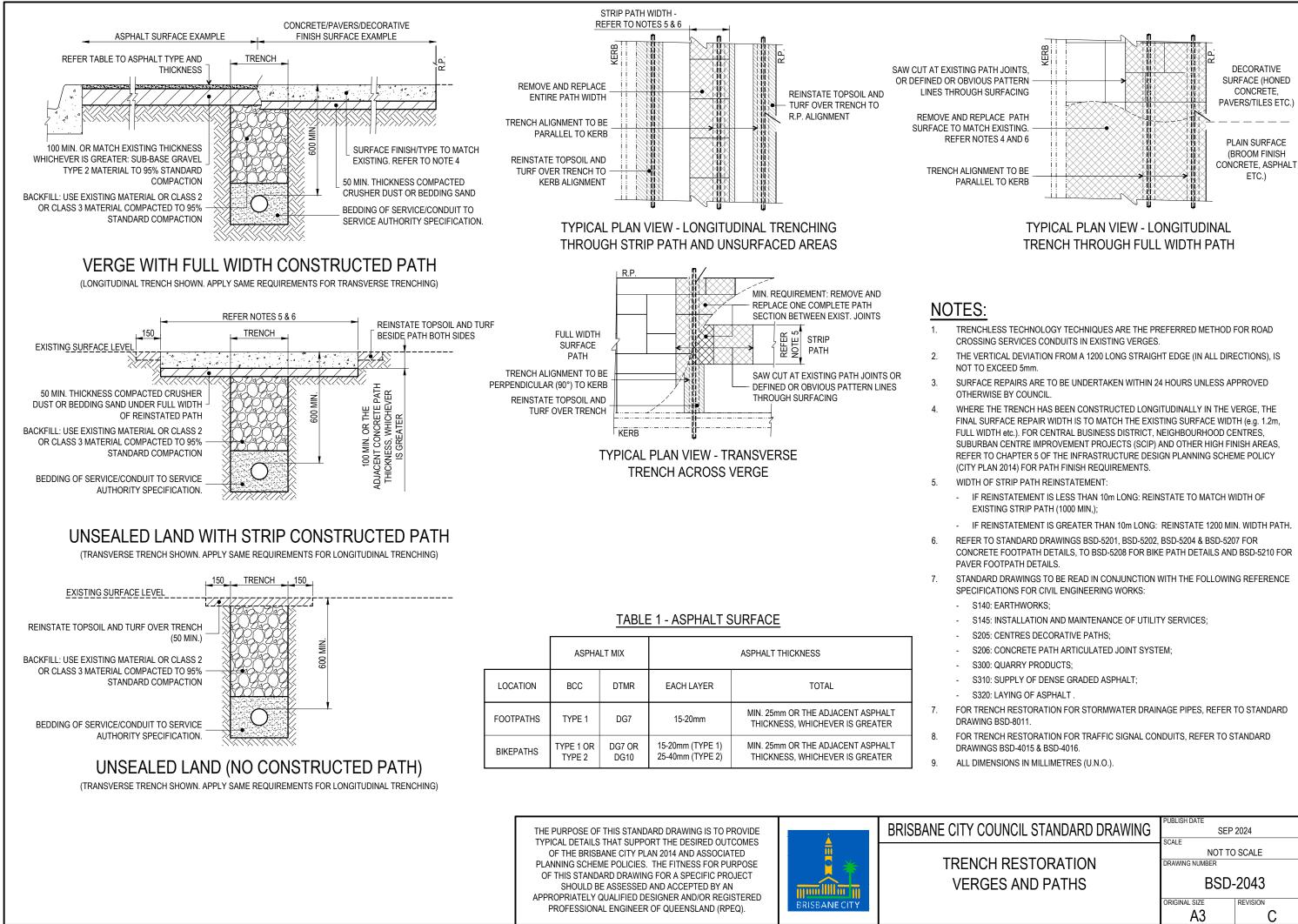
RISBANE CIT

FOR BACKFILL REQUIREMENTS FOR STORMWATER DRAINAGE PIPES, REFER TO STANDARD DRAWING

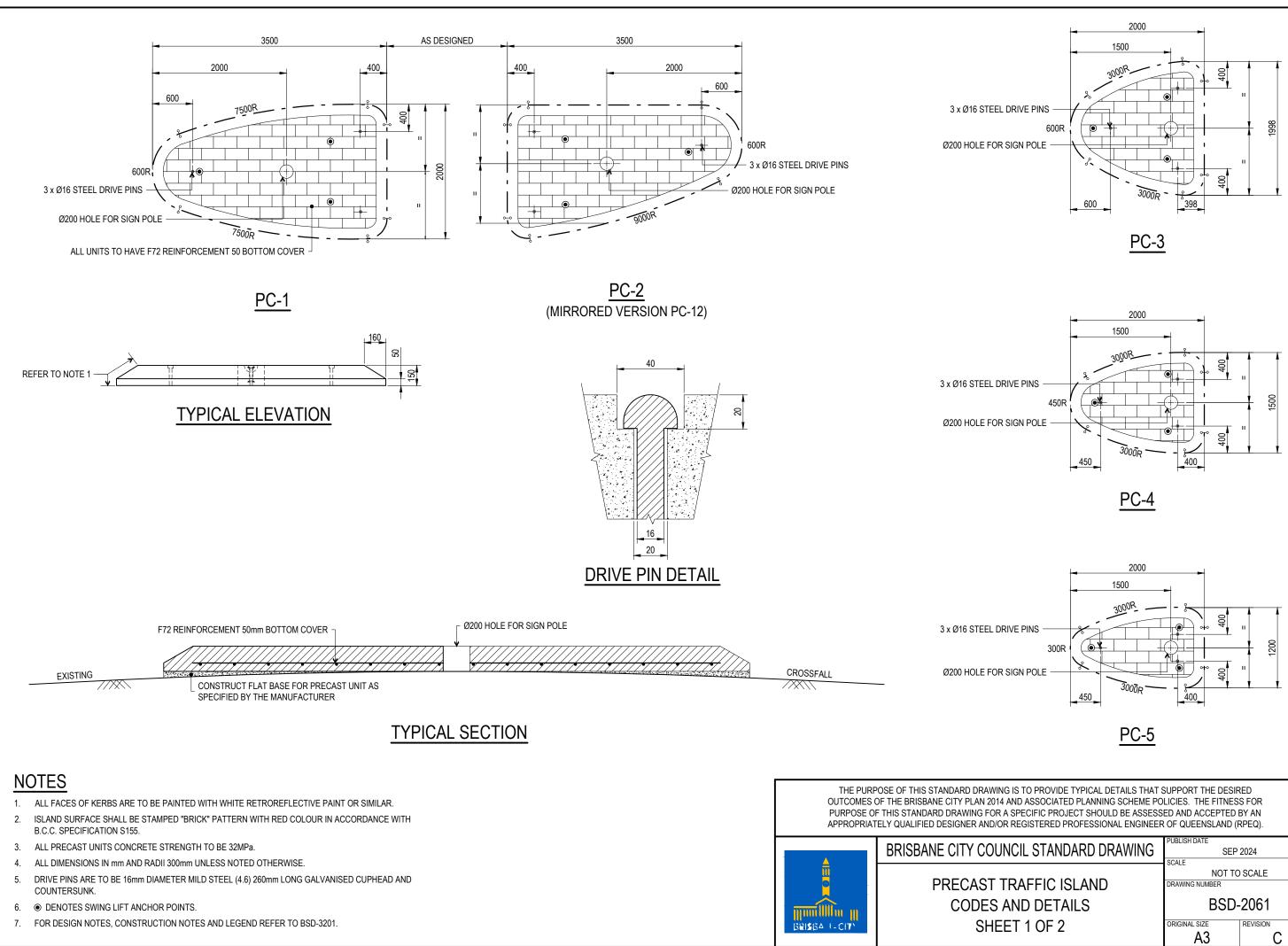
FOR LOCATION OF MARKER TAPE AND COVER STRIP FOR TRAFFIC SIGNAL CONDUITS, REFER TO

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).

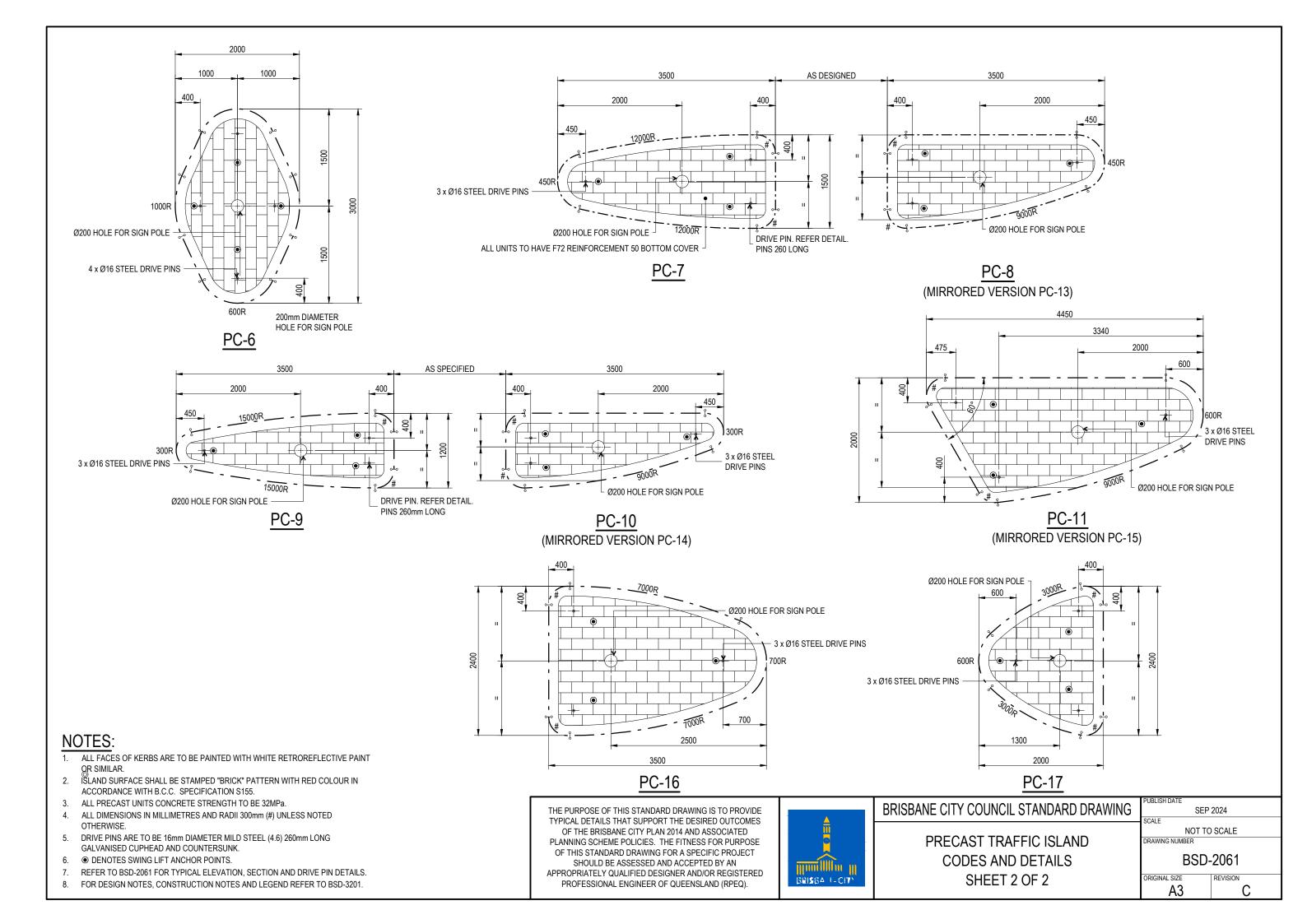
CITY COUNCIL STANDARD DRAWING	PUBLISH DATE	2024
	SCALE NOT TO	SCALE
TRENCH RESTORATION	DRAWING NUMBER	
ROAD CROSSING	BSD-	2042
FLEXIBLE PAVEMENTS	ORIGINAL SIZE	REVISION
	A3	С

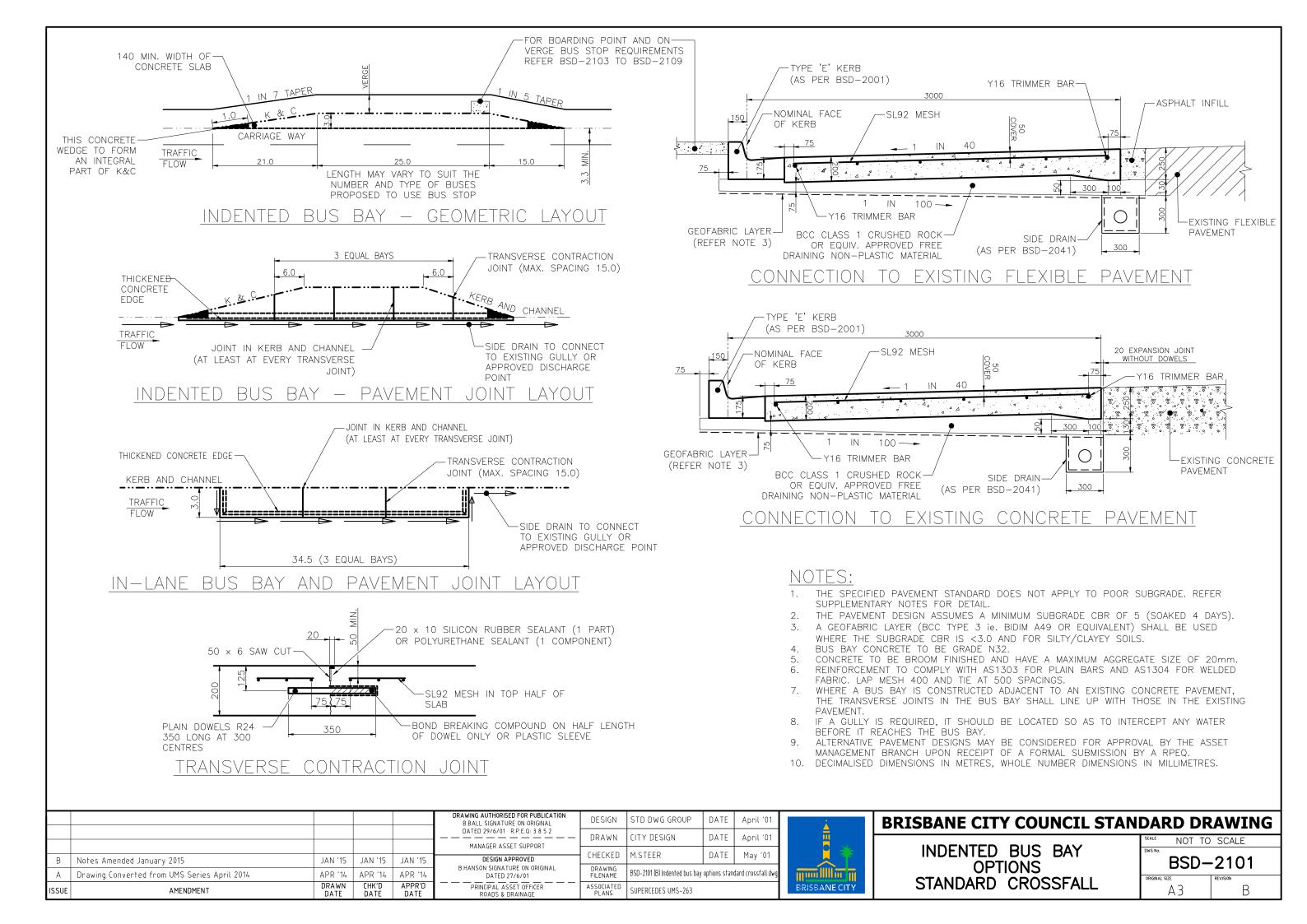


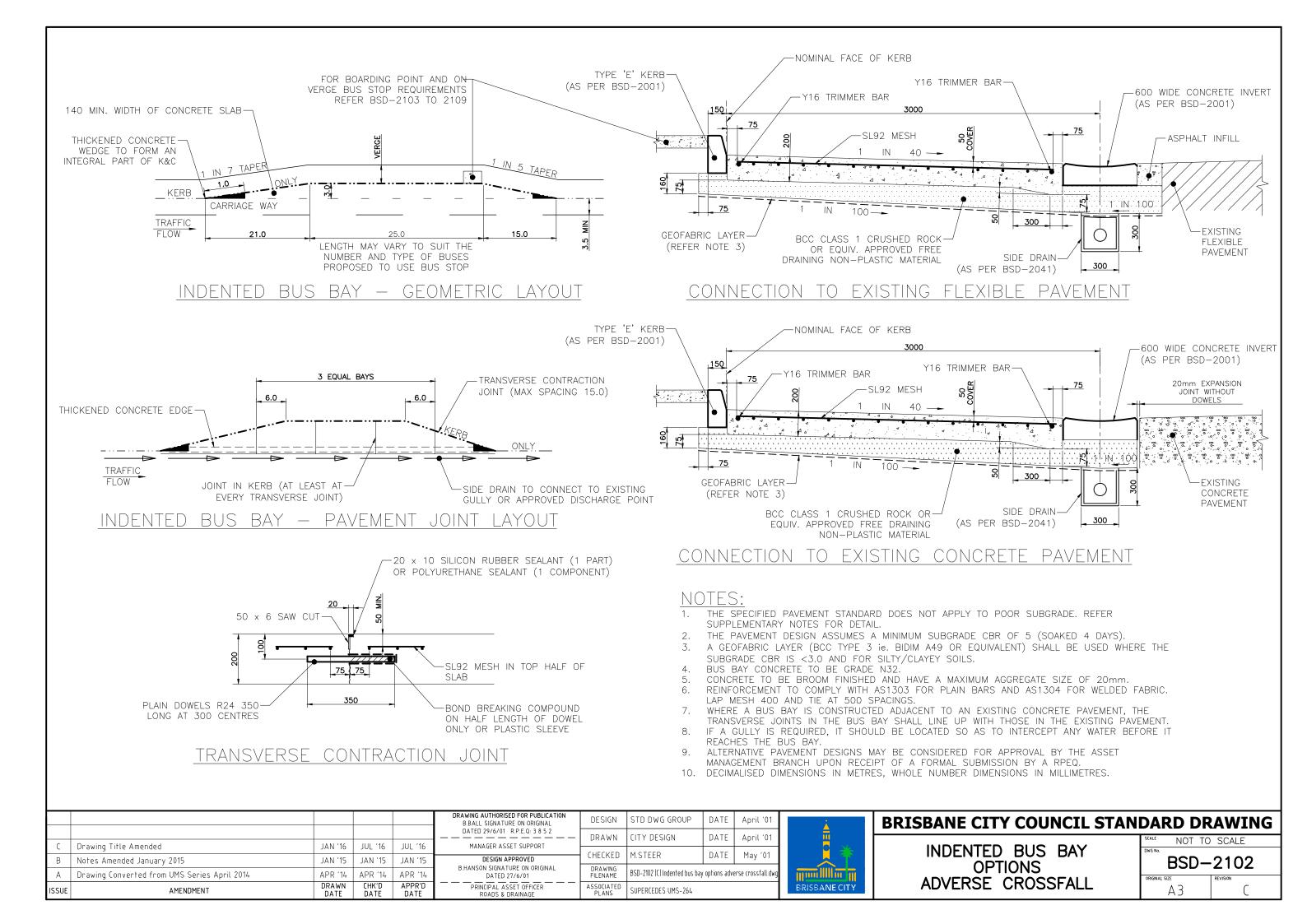
JNCIL STANDARD DRAWING	PUBLISH DATE SEP	2024
RESTORATION S AND PATHS	NOT TO SCALE DRAWING NUMBER BSD-2043	
	ORIGINAL SIZE	

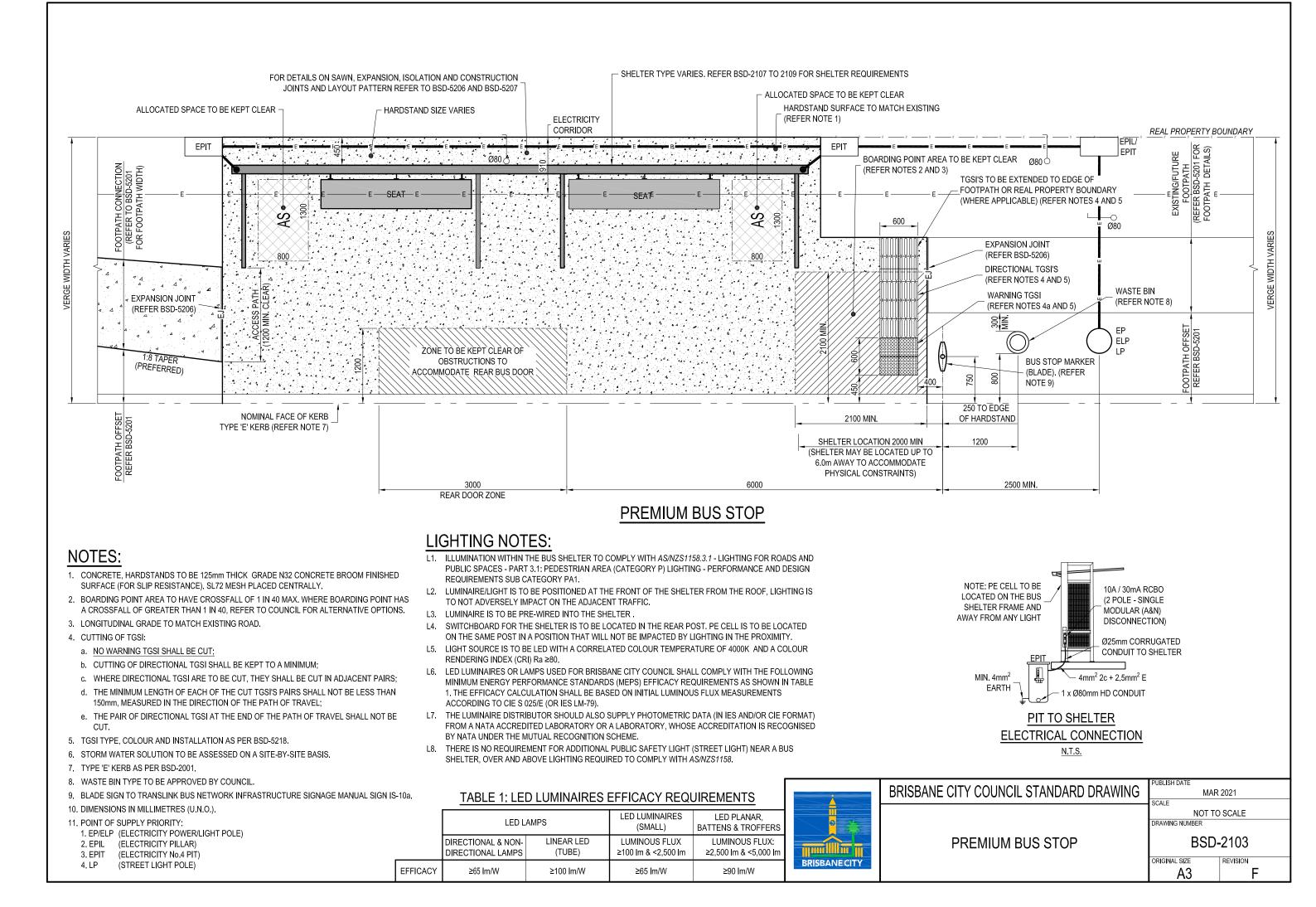


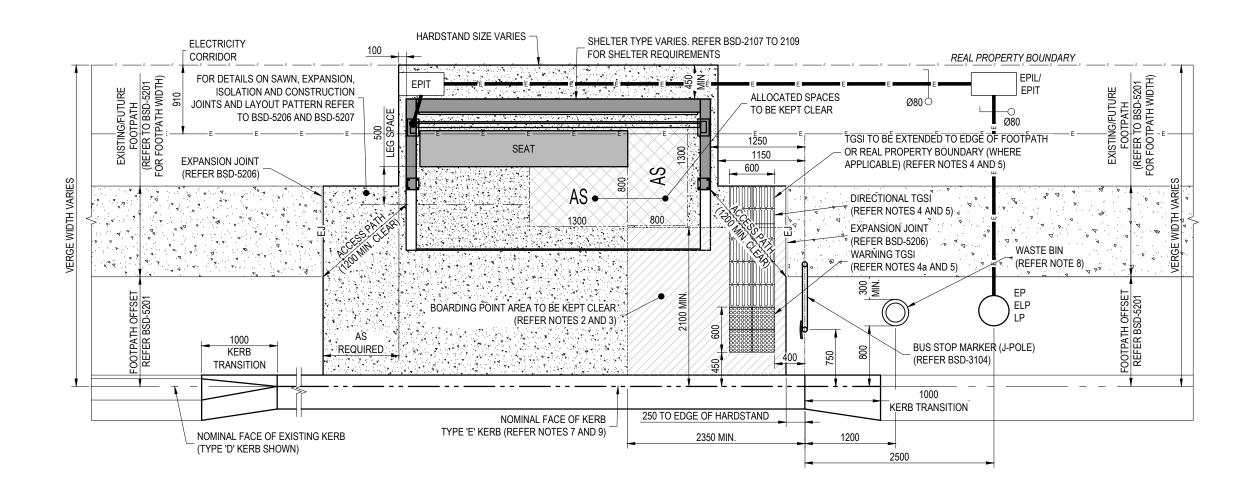
<u>PC-5</u>			
VING IS TO PROVIDE TYPICAL DETAILS THAT S 014 AND ASSOCIATED PLANNING SCHEME PO 0R A SPECIFIC PROJECT SHOULD BE ASSESS //OR REGISTERED PROFESSIONAL ENGINEER	LICIES. THE FITNESS FOR ED AND ACCEPTED BY AN & OF QUEENSLAND (RPEQ).		
UNCIL STANDARD DRAWING	PUBLISH DATE SEP 2024		
TRAFFIC ISLAND S AND DETAILS EET 1 OF 2	SCALE NOT TO SCALE DRAWING NUMBER BSD-2061 ORIGINAL SIZE REVISION A3 C		











- 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.
- 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*.

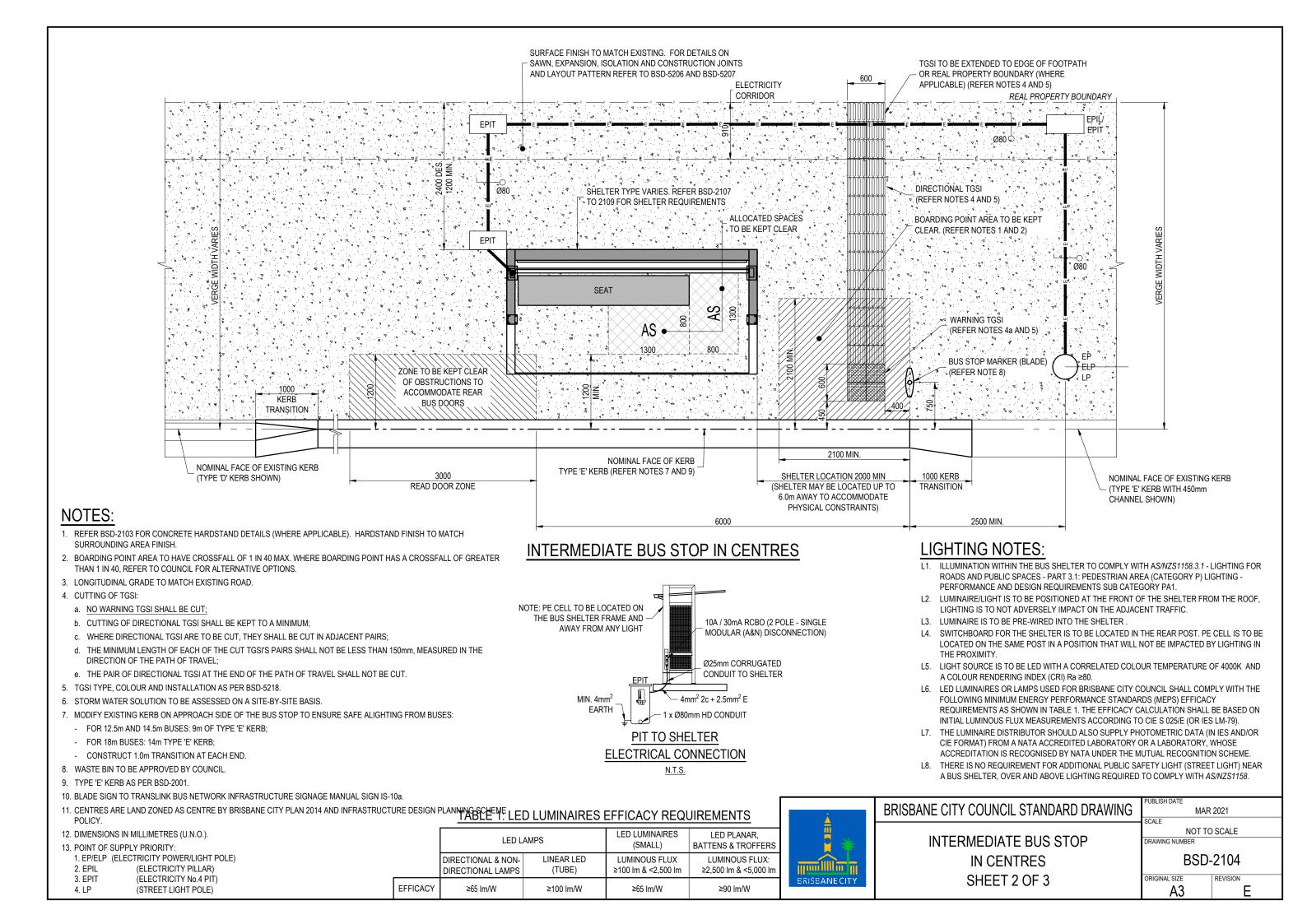
BRISBANE CITY COUL INTERMEDIA CONSTR SHEL

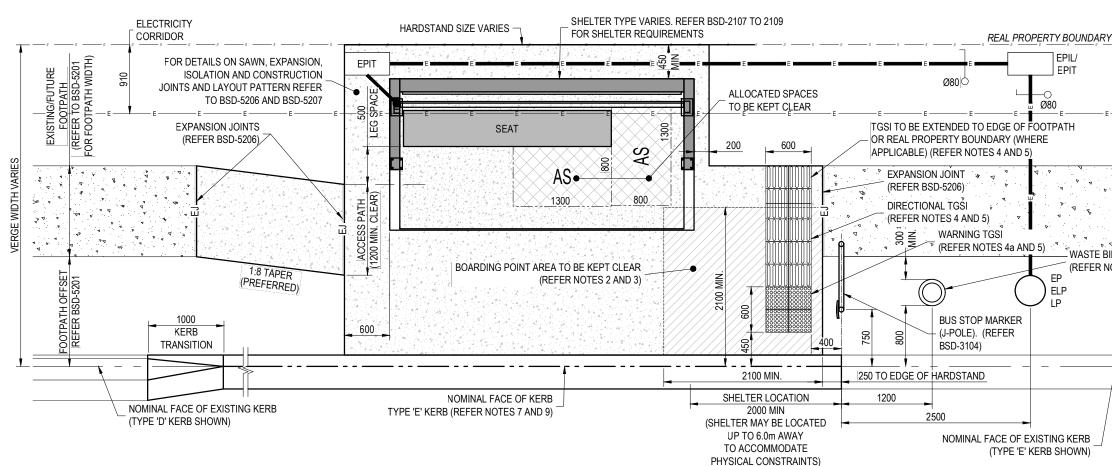
TABLE 1: LED LUMINAIRES EFFICACY REQUIREMENTS LED LUMINAIRES LED PLANAR, LED LAMPS (SMALL) **BATTENS & TROFFERS** DIRECTIONAL & NON-LINEAR LED LUMINOUS FLUX LUMINOUS FLUX: ≥2,500 lm & <5,000 lm na UULar (TUBE) ≥100 lm & <2 500 lm DIRECTIONAL LAMPS RISBANE CITY EFFICACY ≥65 lm/W ≥100 lm/W ≥65 lm/W ≥90 lm/W

NOTE: PE CELL TO BE LOCATED ON THE BUS SHELTER FRAME AND

AWAY FROM ANY LIGHT MODUL	IDUIT
COUNCIL STANDARD DRAWING	PUBLISH DATE MAR 2021
MEDIATE BUS STOP - NSTRAINED SITE SHEET 3 OF 3	SCALE NOT TO SCALE DRAWING NUMBER BSD-2104 ORIGINAL SIZE REVISION A3 E

10A / 30mA RCBO (2 POLE - SINGLE





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;
- 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.
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- 2. EPIL (ELECTRICITY PILLAR)
- 3. EPIT (ELECTRICITY No.4 PIT)
- (STREET LIGHT POLE) 4. LP

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.
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- 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.
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- 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

NOTE: PE CELL THE BUS SH AWA

BRISBANE CITY CO RME

			IN	TER
ł				PR

RISBANE CIT

PP MARKER (REFER 4) Image: Constrained of the second o	D 5) G TGSI NOTES 4a ANI	(REFER NOTE 8)		
ECELL TO BE LOCATED ON BUS SHELTER FRAME AND AWAY FROM ANY LIGHT IN A 30mA RCBO (2 POLE - SINGLE MODULAR (A&N) DISCONNECTION) 025mm CORRUGATED CONDUIT TO SHELTER ELECTRICAL CONNECTION N.T.S.	. (REFER	FD FD FD FD FD FD FD FD FD FD FD FD FD F		
(TYPE 'E' KERB SHOWN) E CELL TO BE LOCATED ON BUS SHELTER FRAME AND WAY FROM ANY LIGHT I OA / 30mA RCBO (2 POLE - SINGLE MODULAR (A&N) DISCONNECTION) Ø25mm CORRUGATED CONDUIT TO SHELTER EARTH I X 80mmØ HD CONDUIT <u>PIT TO SHELTER</u> ELECTRICAL CONNECTION <u>N.T.S.</u> PUBLISH DATE MAR 2021 SCALE NOT TO SCALE	<u>ND</u>			
BUS SHELTER FRAME AND AWAY FROM ANY LIGHT IGHT				
SCALE NOT TO SCALE	BUS SHELTER FRAME AND AWAY FROM ANY LIGHT IGHT			
	Y COUNC	CIL STANDARD DRAWIN	SCALE	
			DRAWING NUMBER	
REFERRED LAYOUTBSD-2104SHEET 1 OF 3ORIGINAL SIZEREVISIONREVISION			ORIGINAL SIZE	REVISION
A3 E			A3	

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

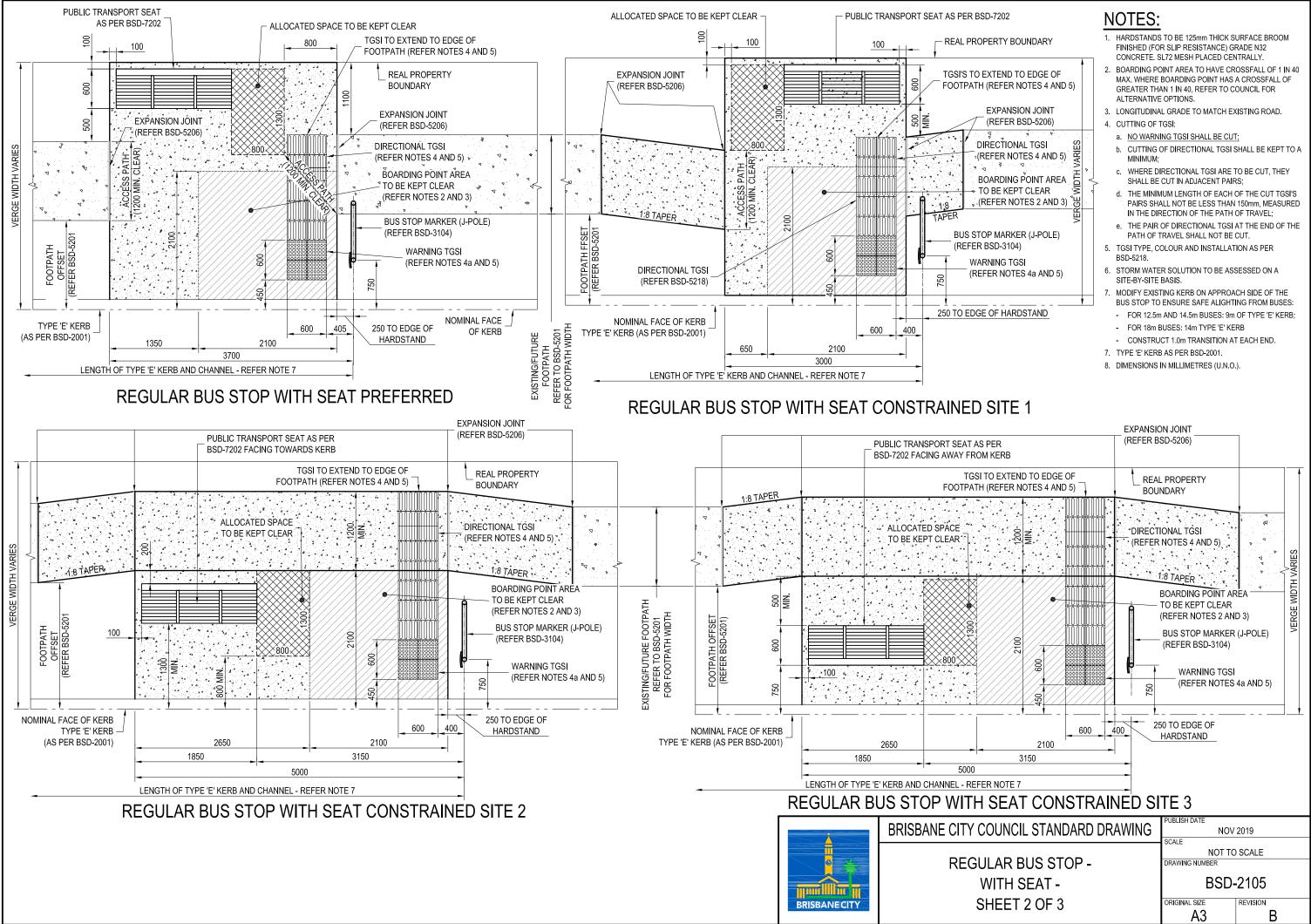
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EXIST

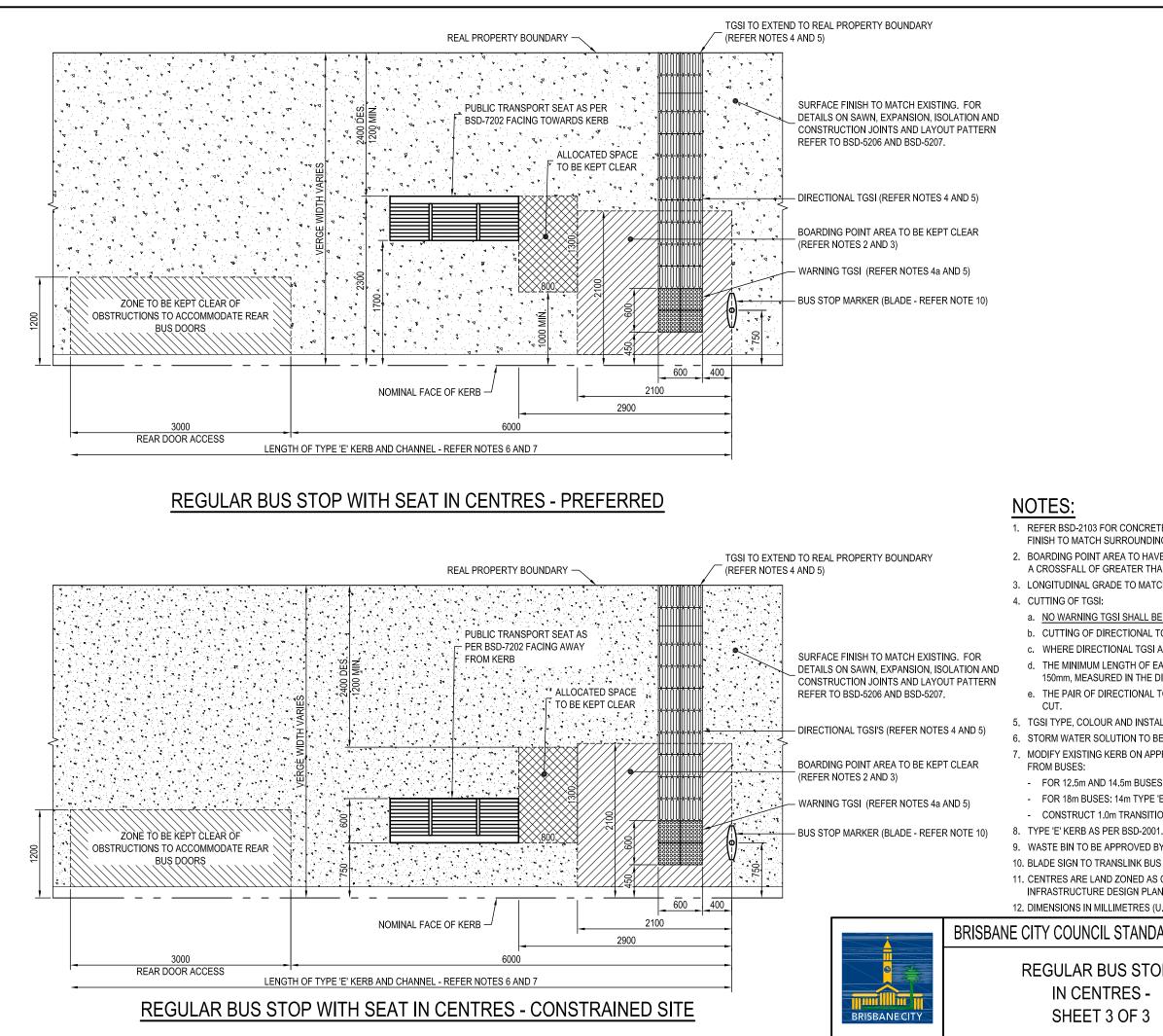
EPIL

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	



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

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CONSTRUCT 1.0m TRANSITION AT EACH END.

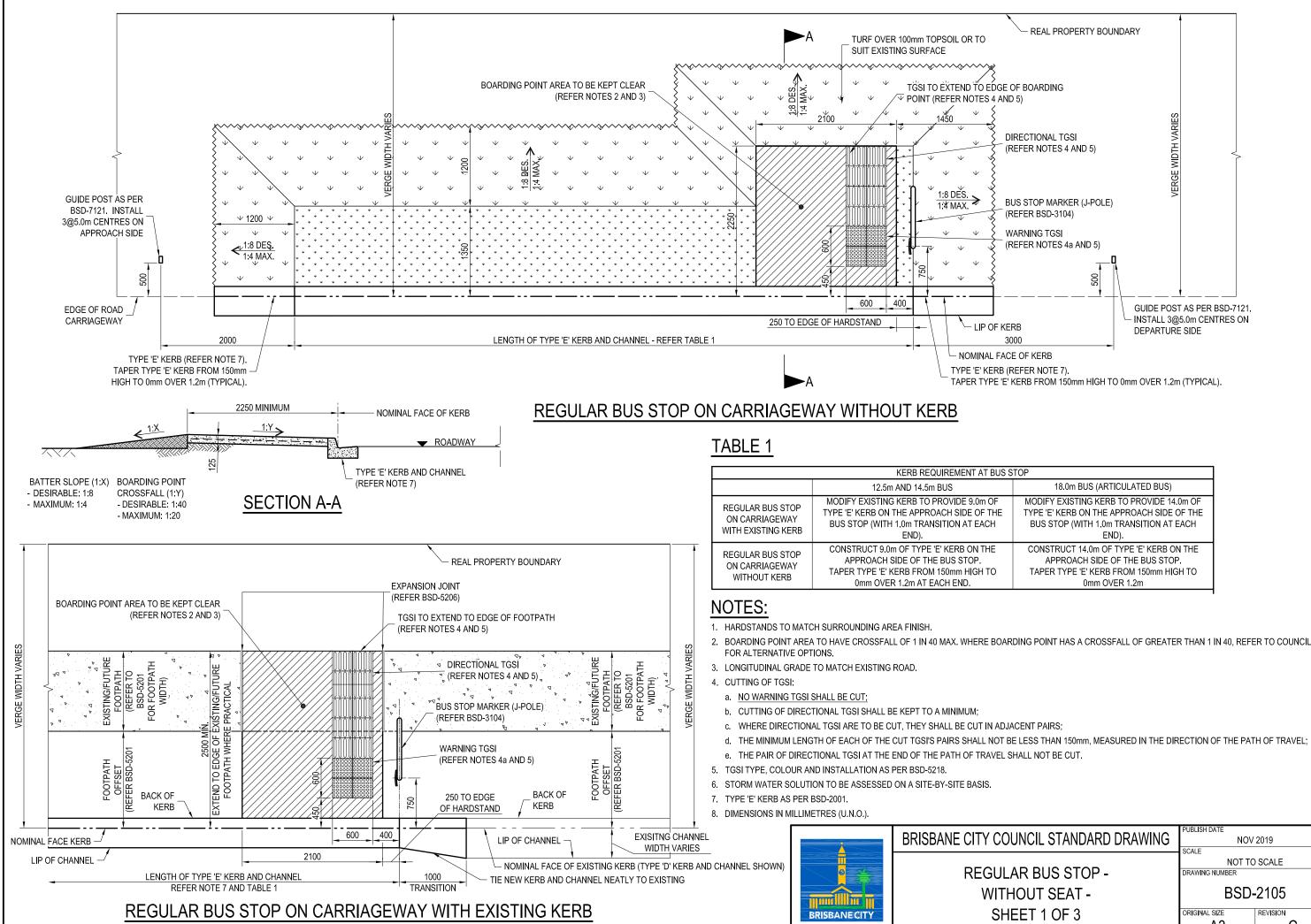
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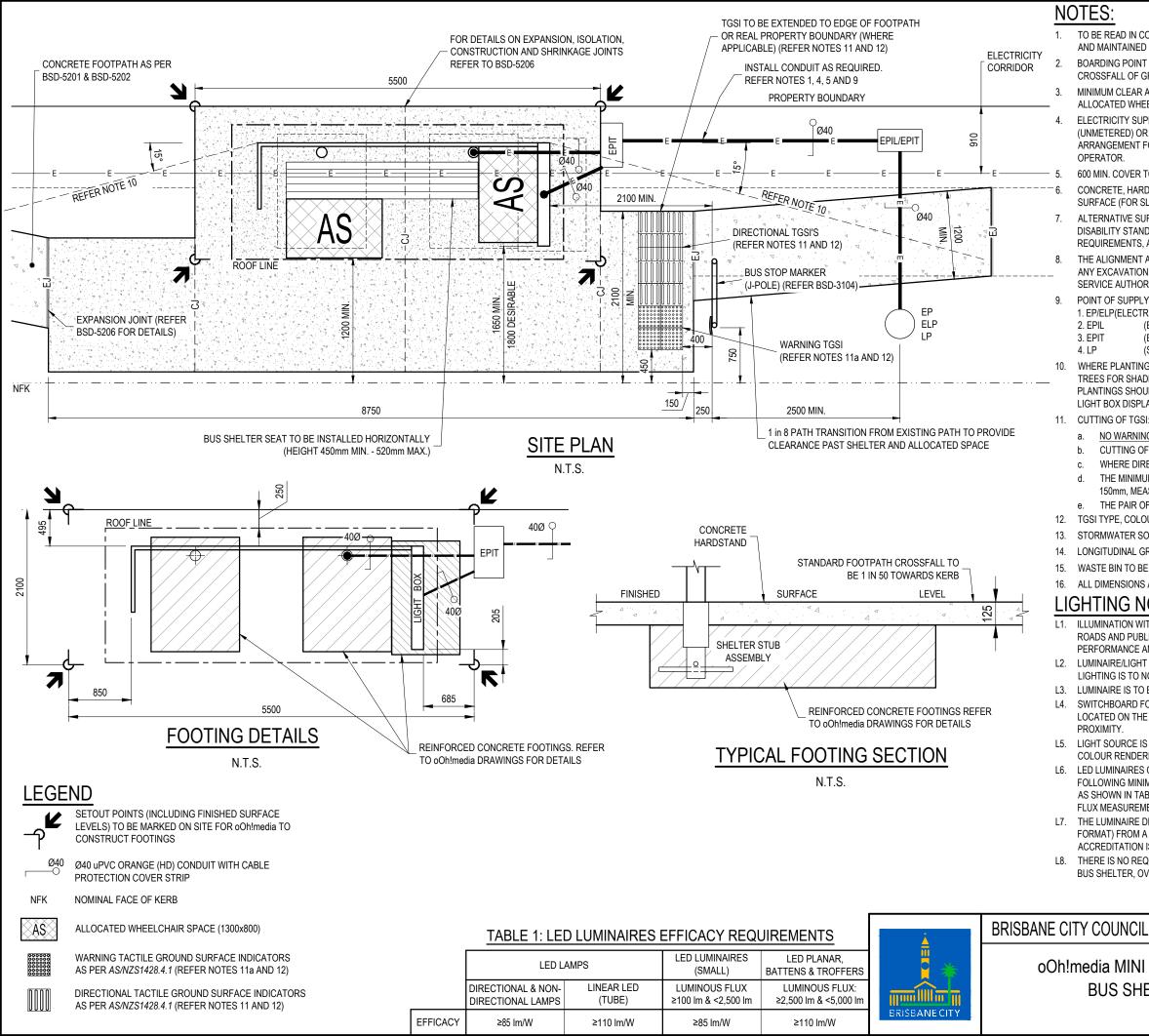
12. DIMENSIONS IN MILLIMETRES (U.N.O.).

• • • • • • • • • • • • • • • • • • • •		
JNCIL STANDARD DRAWING	PUBLISH DATE	2019
	SCALE NOT TC	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 TC	SCALE
OUT SEAT -	BSD-	2105
EET 1 OF 3	ORIGINAL SIZE	
	710	0



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.

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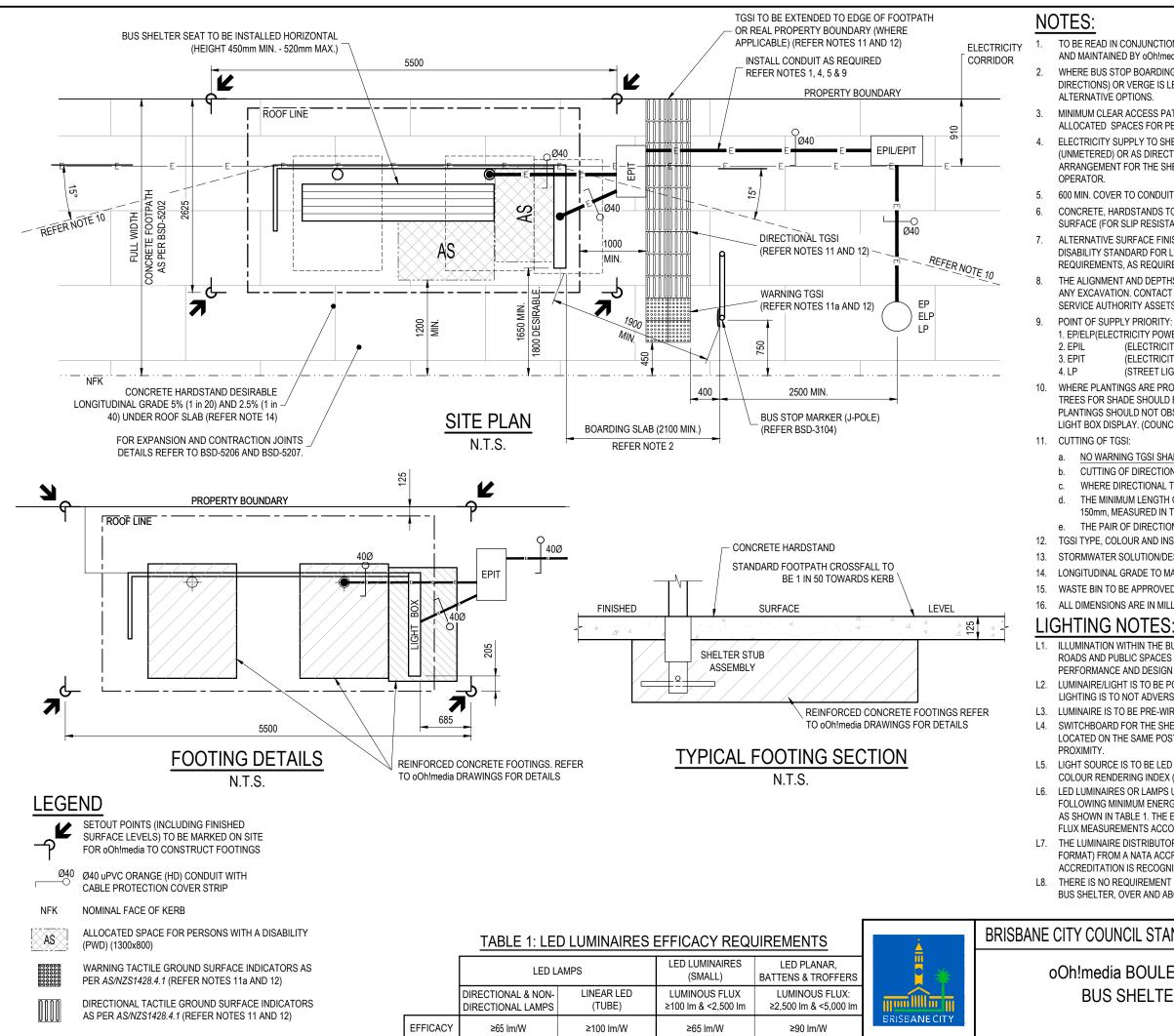
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JNCIL STANDARD DRAWING	PUBLISH DATE MAR SCALE	2021
MINI BOULEVARD	NOT TO DRAWING NUMBER	SCALE
S SHELTER	BSD-	2107
	ORIGINAL SIZE	REVISION
	A3	E



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

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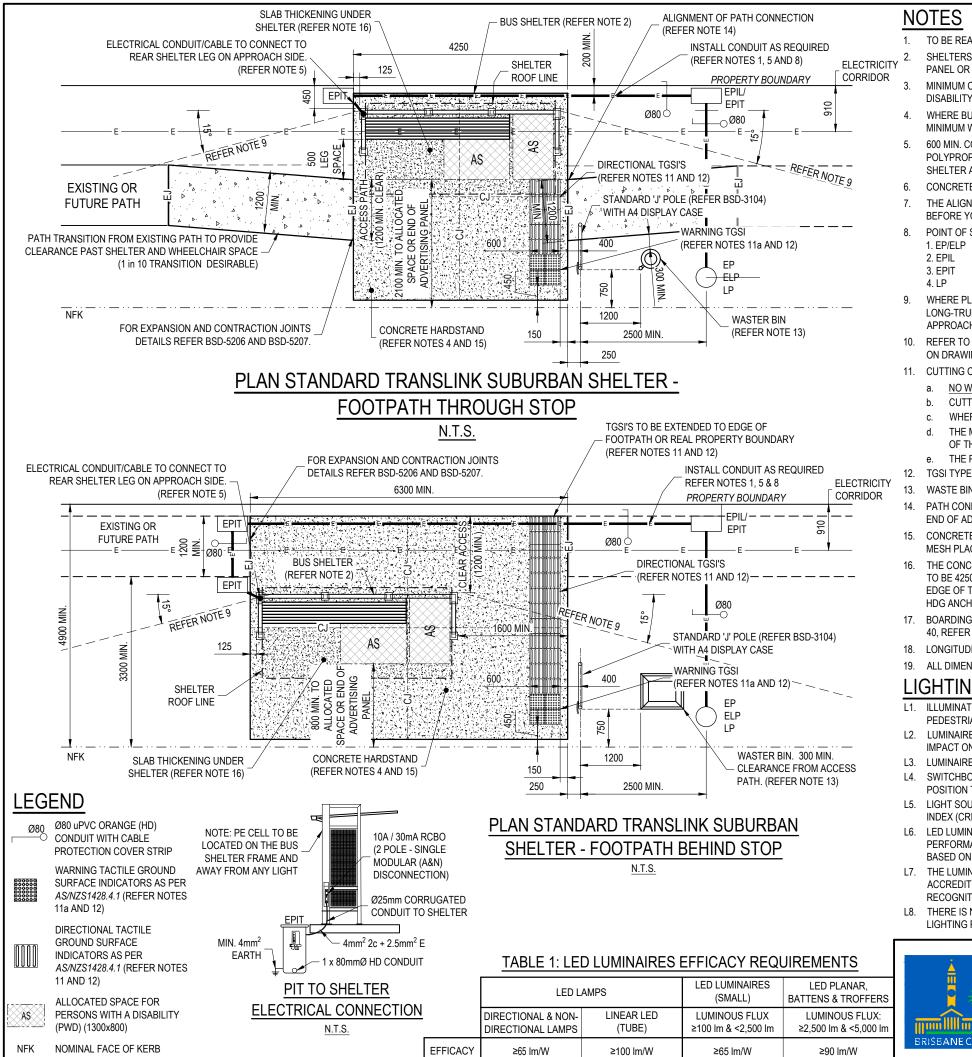
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JNCIL STANDARD DRAWING	PUBLISH DATE MAR SCALE	2021
lia BOULEVARD S SHELTER	NOT TO SCALE DRAWING NUMBER BSD-2108	
	ORIGINAL SIZE	REVISION



- 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;
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- 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 TO SCALE DRAWING NUMBER BSD-2109	
CAL LAYOUT	ORIGINAL SIZE	E

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

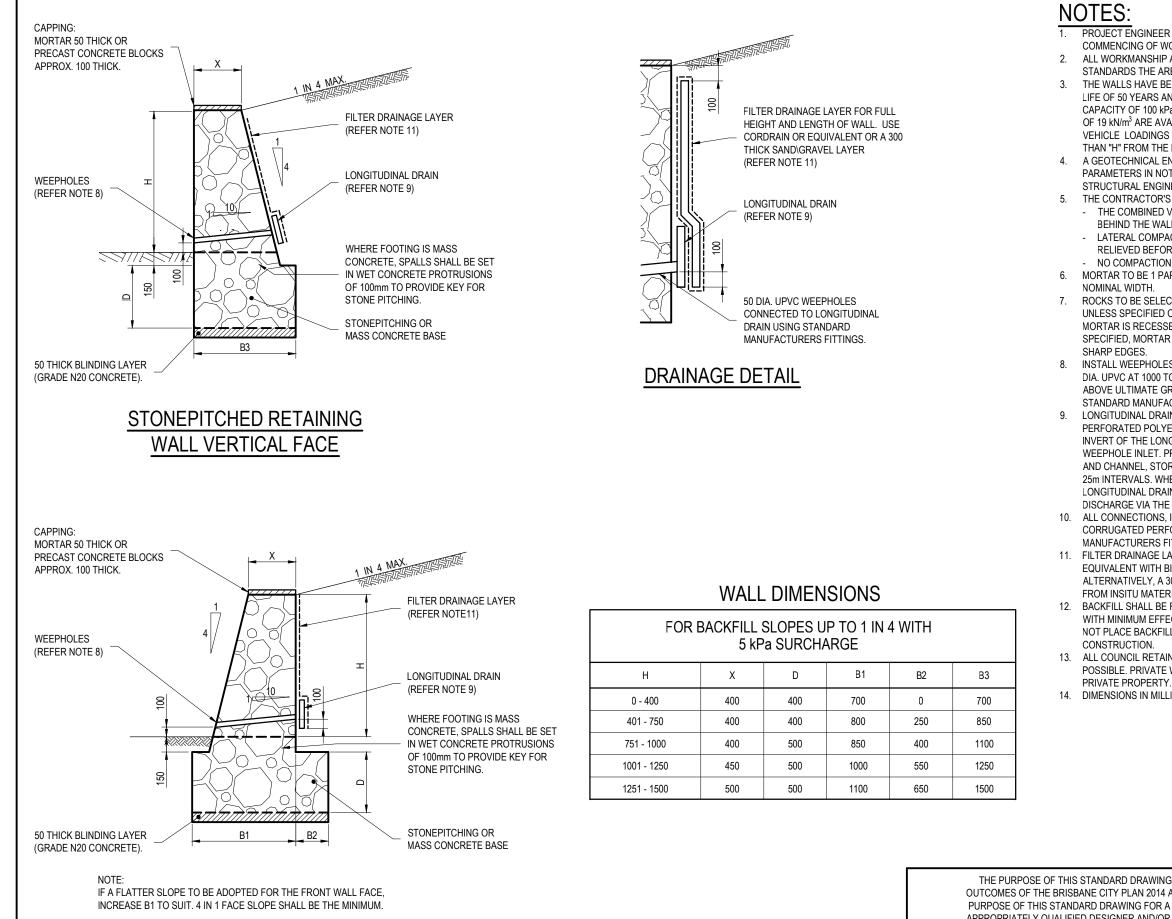
REFER TO BSD-5202 AND BSD-5206 FOR EXPANSION JOINT (EJ) AND CONTRACTION JOINT (CJ) CONSTRUCTION DETAILS. LOCATION

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





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).



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 SITE FOR FOUNDING MATERIAL. 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.

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. 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

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 MANUFACTURERS FITTINGS.

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.

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

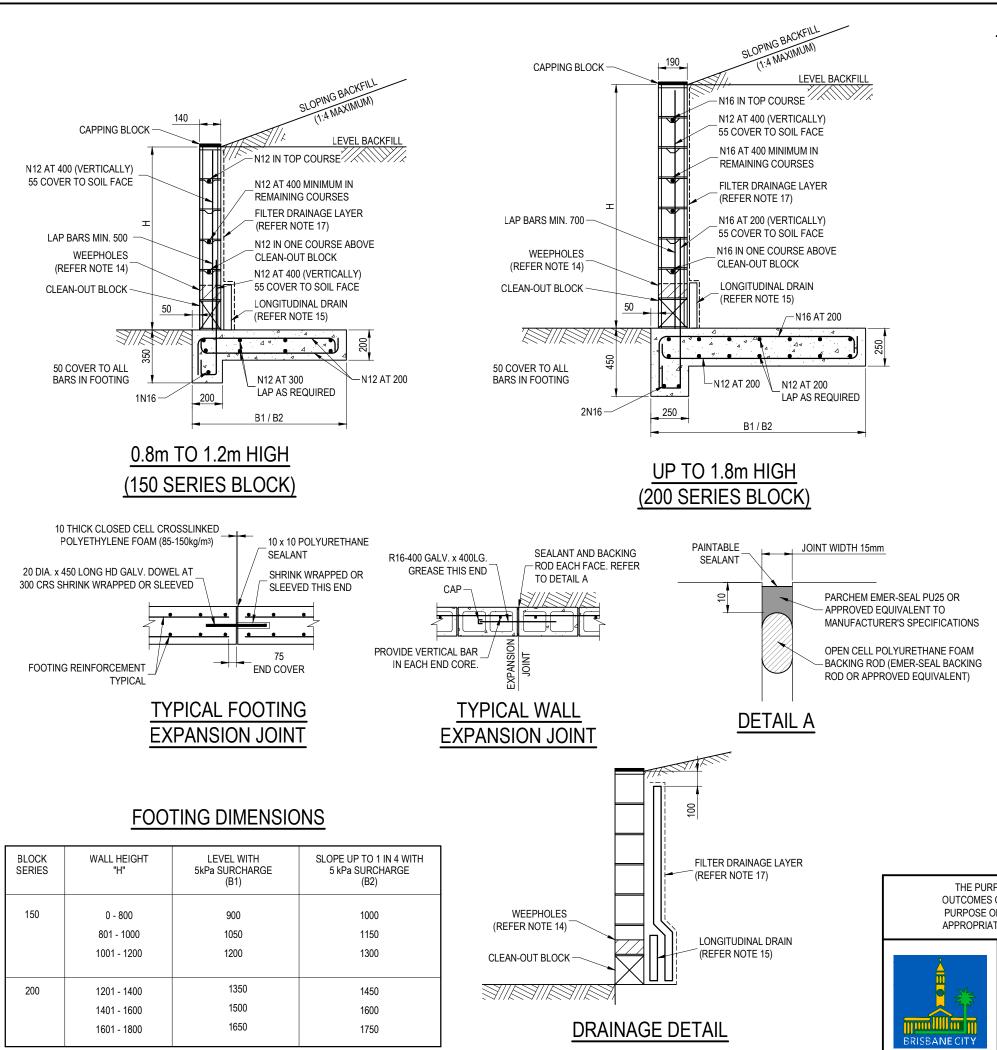
FILTER DRAINAGE LAYER FOR FULL HEIGHT AND LENGTH OF WALL TO BE CORDRAIN OR EQUIVALENT WITH BIDIM A24 GEOTEXTILE OR EQUIVALENT ADHERED TO BOTH SIDES. ALTERNATIVELY, A 300 THICK, FREE DRAINING FILTER SAND/GRAVEL LAYER SEPARATED FROM INSITU MATERIAL WITH A LAYER OF BIDIM A24 GEOTEXTILE.

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

ALL COUNCIL RETAINING WALLS TO BE CONSTRUCTED IN THE ROAD RESERVE WHERE POSSIBLE. PRIVATE WALLS INCLUDING FOOTING TO BE CONTAINED WHOLLY WITHIN

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

INCIL STANDARD DRAWING	PUBLISH DATE	2023
INING WALL	SCALE NOT TO SCALE DRAWING NUMBER	
IEPITCHED	BSD-2221	
	ORIGINAL SIZE	



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

 - END OF CONSTRUCTION; AND
- 7. 8
- AS3700
- 9.
- 10.
- 11.
- 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).



BLOCK SERIES	WALL HEIGHT "H"	LEVEL WITH 5kPa SURCHARGE (B1)	SLOPE UP TO 1 IN 4 WITH 5 kPa SURCHARGE (B2)
150	0 - 800	900	1000
	801 - 1000	1050	1150
	1001 - 1200	1200	1300
200	1201 - 1400	1350	1450
	1401 - 1600	1500	1600
	1601 - 1800	1650	1750

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.

12. 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.

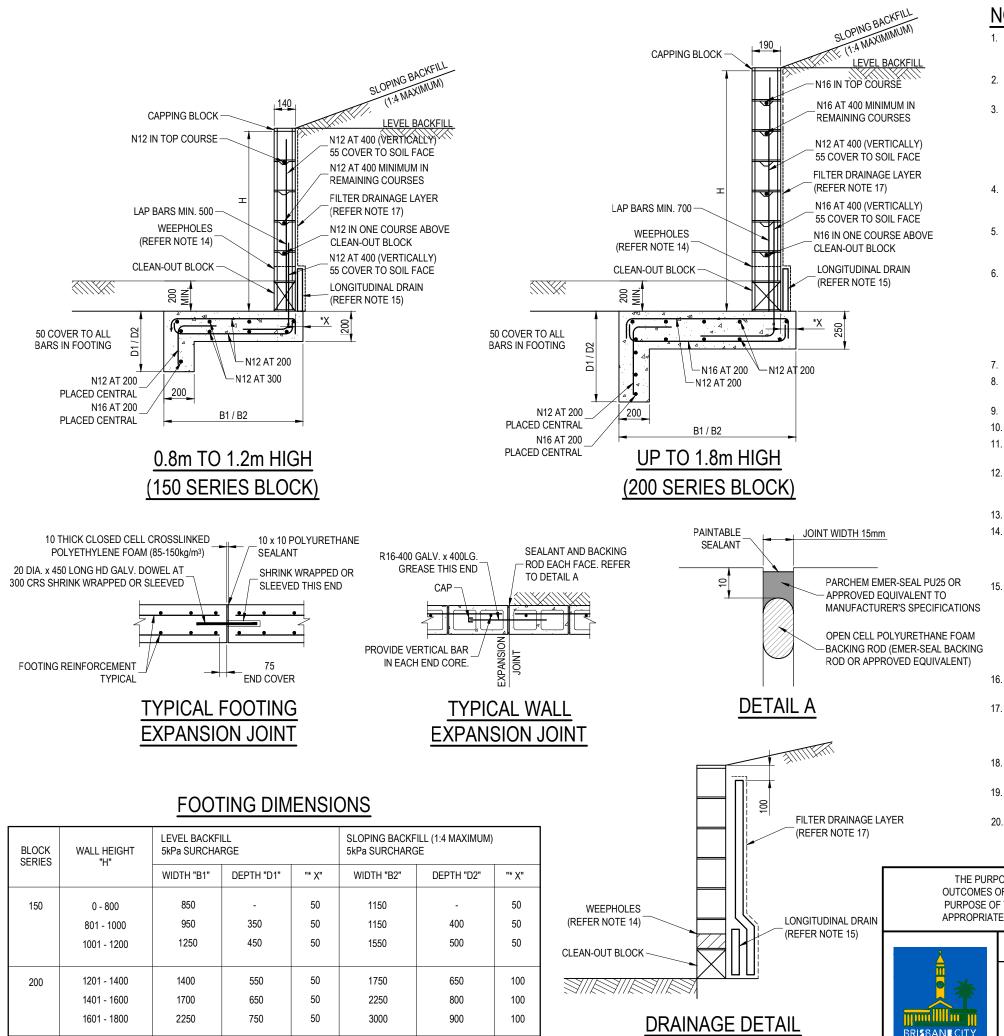
PROVIDE EXPANSION JOINTS IN WALLS AND FOOTINGS AT 12m MAX CRS. AND 6m MAX FROM CORNERS AND

ALL COUNCIL RETAINING WALLS TO BE CONSTRUCTED IN THE ROAD RESERVE WHERE POSSIBLE. PRIVATE WALLS INCLUDING FOOTING TO BE CONTAINED WHOLLY WITHIN PRIVATE PROPERTY.

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.
- 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



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.

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

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

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

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

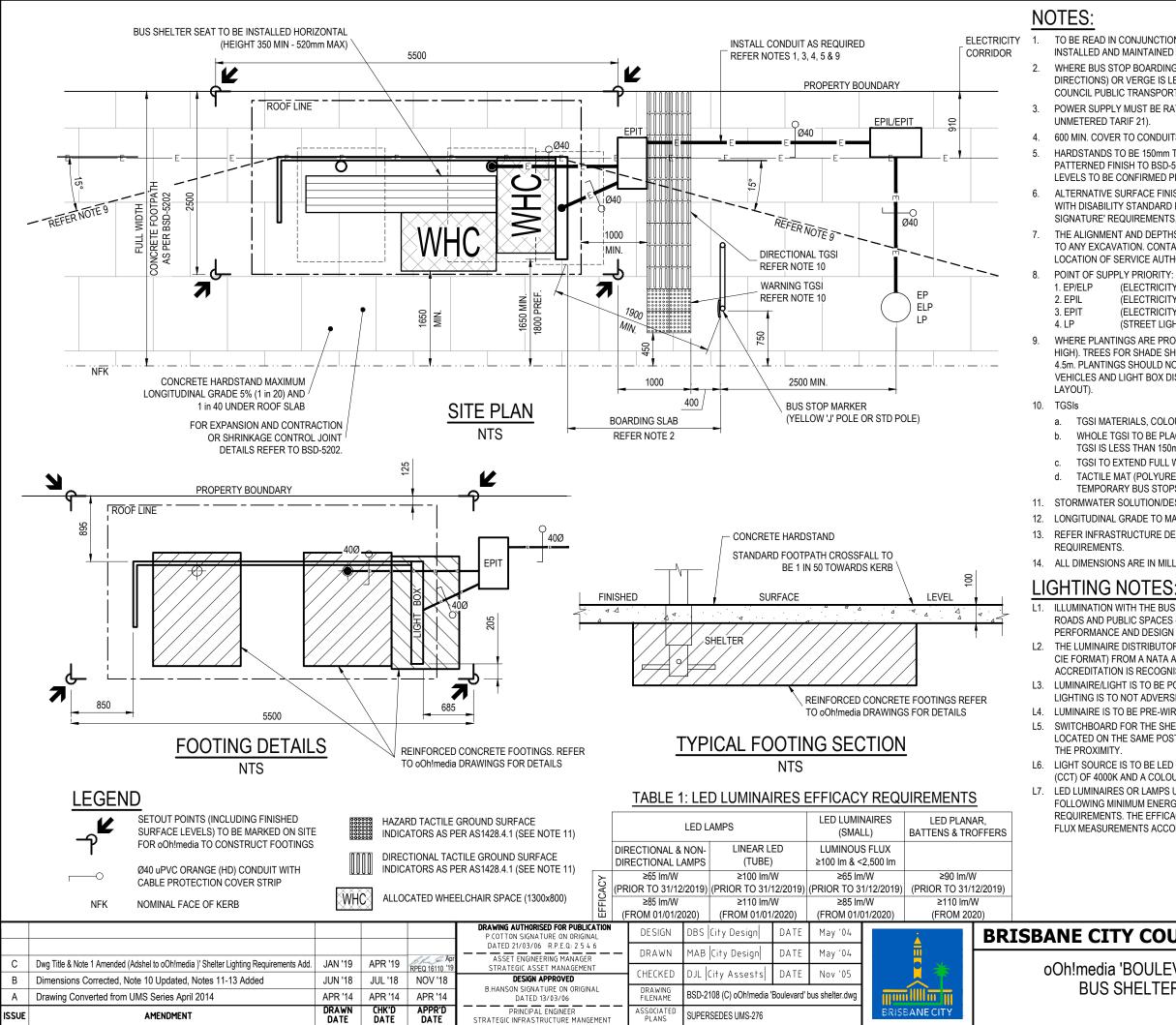
17. FILTER DRAINAGE LAYER FOR FULL HEIGHT AND LENGTH OF WALL SHALL BE CORDRAIN OR APPROVED EQUIVALENT WITH BIDUM A24 OR APPROVED EQUIVALENT ADHERED TO ONE SIDE ABUTTING THE BACKFILL. ALTERNATIVELY, A 300 THICK FREE DRAINING, FILTER SAND/GRAVEL LAYER SEPARATED FROM THE INSITU MATERIAL BY TYPE BIDUM A24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

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

ALL COUNCIL RETAINING WALLS TO BE CONSTRUCTED IN THE ROAD RESERVE WHERE POSSIBLE. PRIVATE WALLS INCLUDING FOOTING TO BE CONTAINED WHOLLY WITHIN PRIVATE PROPERTY.

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)

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 C	



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

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

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 DWG NO. BSD-2108	
a 'BOULEVARD' SHELTER		
	ORIGINAL SIZE	REVISION C