

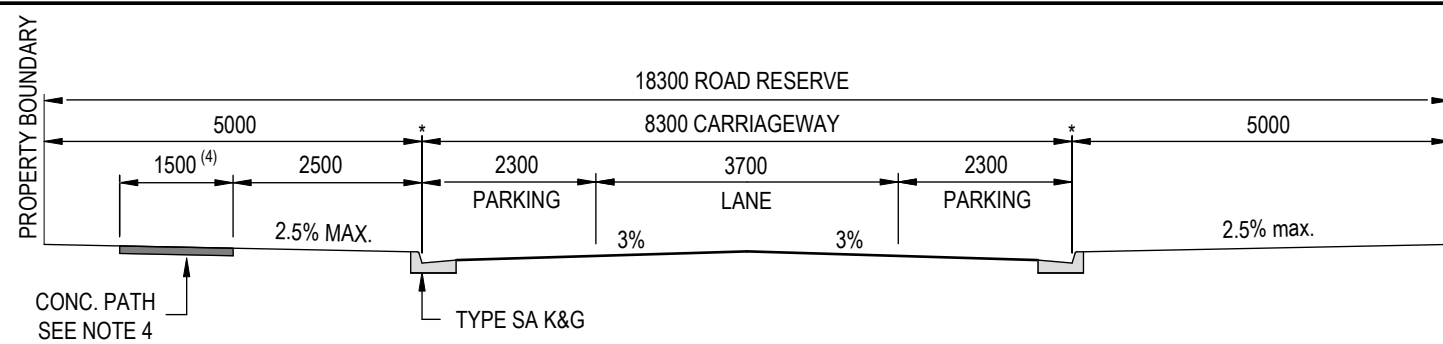


STANDARD DRAWINGS FOR ROADWORKS

DISCLAIMER The City shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or anticipatory profits, or consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as the equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional.

NOTE: THESE STANDARD DRAWINGS REPLACE ALL PREVIOUS ISSUES

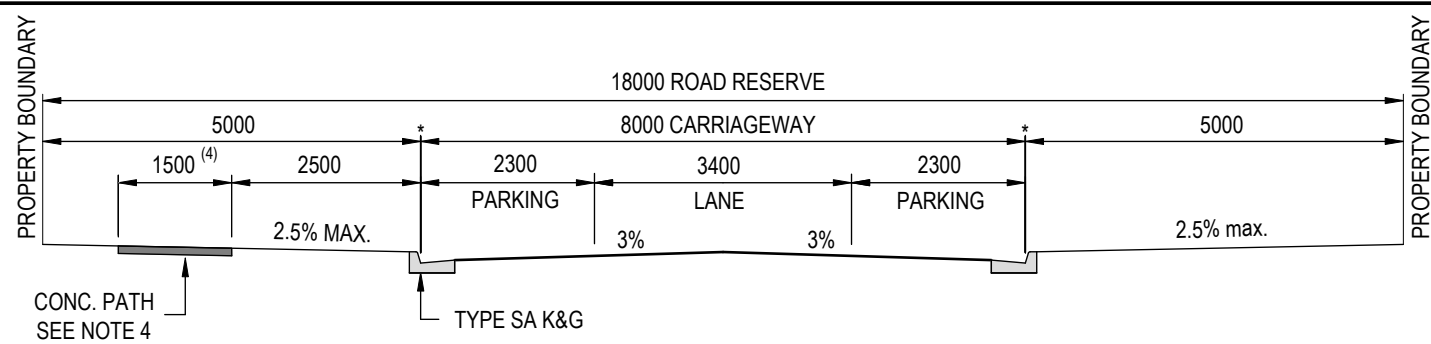
DWG No.	CROSS SECTIONS	REVISION	DWG No.	FOOTPATHS AND CYCLEWAYS	REVISION
R - 200 - 01	DRAWING INDEX - ROADWORKS	Rev 1 12/2024	R - 240 - 01	FOOTPATH / SHARED PATH GENERAL NOTES	Rev 1 12/2024
R - 200 - 02	TYPICAL SECTION - RESIDENTIAL / INDUSTRIAL / COMMERCIAL ROADS	Rev 1 12/2024	R - 240 - 02	CONCRETE PATH DETAILS - TYPE 1 LIGHT DUTY LOADING	Rev 1 12/2024
R - 200 - 03	TYPICAL URBAN ROAD - RESIDENTIAL ROADS	Rev 1 12/2024	R - 240 - 03	CONCRETE PATH DETAILS - TYPE 2 INTERMEDIATE DUTY LOADING	Rev 1 12/2024
R - 200 - 04	TYPICAL RURAL RESIDENTIAL ROADS	Rev 1 12/2024	R - 240 - 04	CONCRETE PATH DETAILS - TYPE 3 HEAVY DUTY LOADING	Rev 1 12/2024
R - 200 - 05	TYPICAL RURAL ROADS CHARACTERISTICS AND GUIDE POST DETAILS	Rev 1 12/2024	R - 240 - 05	TYPICAL CONCRETE PATH DETAILS	Rev 1 12/2024
R - 200 - 06	TYPICAL RURAL ROAD SECTION - CLASS 3 OR 4 - COLLECTOR & LOCAL ROAD	Rev 1 12/2024	R - 240 - 06	VALVE & HYDRANT COVERS IN CONCRETE PATH	Rev 1 12/2024
R - 200 - 07	TYPICAL RURAL ROAD SECTION - CLASS 5 - RURAL ACCESS	Rev 1 12/2024	R - 240 - 07	TYPICAL KERB PRAM RAMP FOR SA KERB - TYPE 1	Rev 1 12/2024
R - 200 - 08	CONTAINMENT SAFETY BARRIER SYSTEMS	Rev 1 12/2024	R - 240 - 08	TYPICAL KERB PRAM RAMP FOR RT KERB - TYPE 2	Rev 1 12/2024
R - 200 - 09	TYPICAL CUL-DE-SAC - RESIDENTIAL ROADS	Rev 1 12/2024	R - 240 - 09	TYPICAL KERB PRAM RAMP AT INTERSECTION KERB RETURN - TYPE 3 & 4	Rev 1 12/2024
	PUBLIC UTILITIES		R - 240 - 10	TYPICAL TACTILE INDICATORS (T.G.S.I.) INSTALLATION DETAILS	Rev 1 12/2024
R - 210 - 01	PUBLIC UTILITIES - PLAN OF TYPICAL SERVICE CORRIDORS		R - 240 - 11	CYCLEWAY KERB PRAM RAMP WITH HAND RAIL	Rev 1 12/2024
R - 210 - 02	PUBLIC UTILITIES - TYPICAL ROAD CROSSING	Rev 1 12/2024	R - 240 - 12	SHARED PATH, KERB RAMP LINEMARKING	Rev 1 12/2024
R - 210 - 03	WATER AND SEWER PIPE ROAD CROSSING	Rev 1 12/2024	R - 240 - 13	PEDESTRIAN & SHARED PATHS FENCING & HAZARD REQUIREMENTS	Rev 1 12/2024
R - 210 - 04	TYPICAL SERVICE ALLOCATIONS - LOCAL ROAD	Rev 1 12/2024	R - 240 - 14	PEDESTRIAN CROSSINGS	Rev 1 12/2024
R - 210 - 05	TYPICAL SERVICE ALLOCATIONS - COLLECTOR ROAD WITH SHARED PATH	Rev 1 12/2024	R - 240 - 15	PEDESTRIAN REFUGE MID BLOCK CROSSING - SHEET 1 OF 2	Rev 1 12/2024
R - 210 - 06	EXISTING PAVEMENT TRENCHING & WIDENING DETAILS	Rev 1 12/2024	R - 240 - 16	PEDESTRIAN REFUGE MID BLOCK CROSSING - SHEET 2 OF 2	Rev 1 12/2024
R - 210 - 07	EXISTING PAVEMENT TIE IN	Rev 1 12/2024	R - 240 - 17	PEDESTRIAN REFUGE TYPICAL DETAILS - SHEET 1 OF 2	Rev 1 12/2024
R - 210 - 08	EXISTING PAVEMENT HEAVY ASPHALT PATCH	Rev 1 12/2024	R - 240 - 18	PEDESTRIAN REFUGE TYPICAL DETAILS - SHEET 2 OF 2	Rev 1 12/2024
	KERB AND CHANNEL			FENCING	
R - 220 - 01	TYPICAL KERB TYPES	Rev 1 12/2024	R - 250 - 01	2.4m HIGH CHAIN WIRE SECURITY FENCING	
R - 220 - 02	KERB TRANSITION - TYPE SA KERB TO TYPE RT KERB	Rev 1 12/2024	R - 250 - 02	2.29m HIGH, 3 BARBED WIRE SECURITY CHAIN WIRE FENCING	Rev 1 12/2024
R - 220 - 03	KERB TRANSITION - TYPE SA KERB TO TYPE SF KERB	Rev 1 12/2024	R - 250 - 03	TYPICAL WELDMESH FULL PEDESTRIAN BARRIER FENCING	Rev 1 12/2024
R - 220 - 04	KERB TRANSITION - TYPE SA KERB TO TYPE SM KERB	Rev 1 12/2024	R - 250 - 04	PARTIAL & FULL BARRIER PEDESTRIAN FENCE	Rev 1 12/2024
R - 220 - 05	KERB TRANSITION - TYPE SM KERB TO TYPE SF KERB	Rev 1 12/2024	R - 250 - 05	PARTIAL & FULL BARRIER CYCLIST FENCE	Rev 1 12/2024
	DRIVEWAYS		R - 250 - 06	PEDESTRIAN RAMP HANDRAIL	Rev 1 12/2024
R - 230 - 01	STANDARD ACCESSIBLE VEHICULAR DRIVEWAY VEHICULAR CROSSING SHEET 1 OF 2	Rev 1 12/2024		TRAFFIC MANAGMENT	Rev 1 12/2024
R - 230 - 02	STANDARD ACCESSIBLE VEHICULAR DRIVEWAY VEHICULAR CROSSING SHEET 2 OF 2	Rev 1 12/2024	R - 260 - 01	RAISED FLAT TOP SPEED HUMP	
R - 230 - 03	RESIDENTIAL DRIVEWAY & LAYBACK VEHICULAR CROSSING SHEET 1 OF 2	Rev 1 12/2024	R - 260 - 02	REGULATORY SIGN DETAILS	Rev 1 12/2024
R - 230 - 04	RESIDENTIAL DRIVEWAY TYPICAL JOINTING DETAILS SHEET 2 OF 2	Rev 1 12/2024	R - 260 - 03	STANDARD STREET NAME SIGN	Rev 1 12/2024
R - 230 - 05	COMMERICAL DRIVEWAY & LAYBACK VEHICULAR CROSSING SHEET 1 OF 2	Rev 1 12/2024	R - 260 - 04	STREET SIGN FOOTING DETAILS	Rev 1 12/2024
R - 230 - 06	COMMERICAL DRIVEWAY TYPICAL JOINTING DETAILS SHEET 2 OF 2	Rev 1 12/2024	R - 260 - 05	PAVEMENT LINEMARKING & DIMENSIONS	Rev 1 12/2024
R - 230 - 07	INDUSTRIAL DRIVEWAY & LAYBACK VEHICULAR CROSSING SHEET 1 OF 2	Rev 1 12/2024	R - 260 - 06	TYPICAL BUS ZONE, J POLE SIGNAGE & DIRECTIONAL T.G.S.I.	Rev 1 12/2024
R - 230 - 08	INDUSTRIAL DRIVEWAY TYPICAL JOINTING DETAILS SHEET 2 OF 2	Rev 1 12/2024		MISCELLANEOUS	
R - 230 - 09	RURAL DRIVEWAY VEHICULAR CROSSING	Rev 1 12/2024	L - 600 - 02	STREET TREE PLANTING	Rev 1 12/2024
R - 230 - 10	TYPICAL RESIDENTIAL DRIVEWAY PROFILES	Rev 1 12/2024			
R - 230 - 11	B85 & B99 PASSENGER VEHICLE VERTICAL CLEARANCE PROFILE	Rev 1 12/2024			



RESIDENTIAL LOCAL ROAD

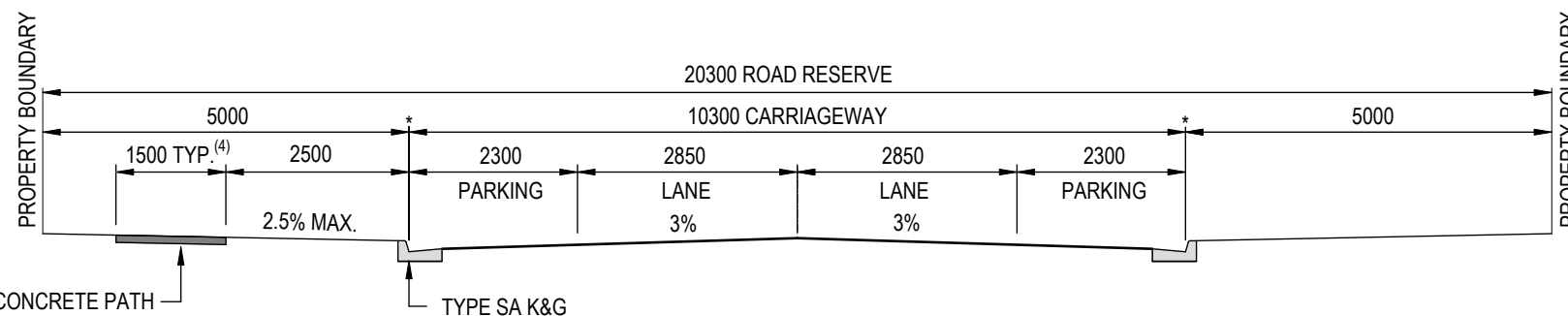
LOW VOLUME AADT (<1000 VPD)

(PROVIDE ADDITIONAL ROAD RESERVE WIDTH WHERE CYCLEWAY REQUIRED)



RESIDENTIAL ACCESS ROAD

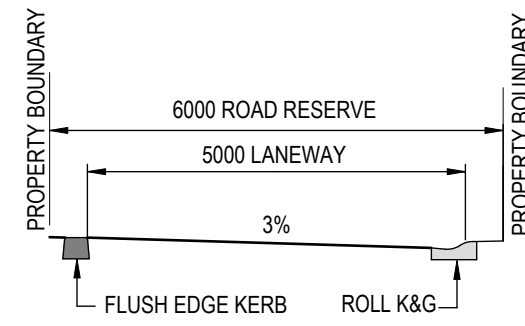
(PROVIDE ADDITIONAL ROAD RESERVE WIDTH WHERE CYCLEWAY REQUIRED)



RESIDENTIAL LOCAL ROAD

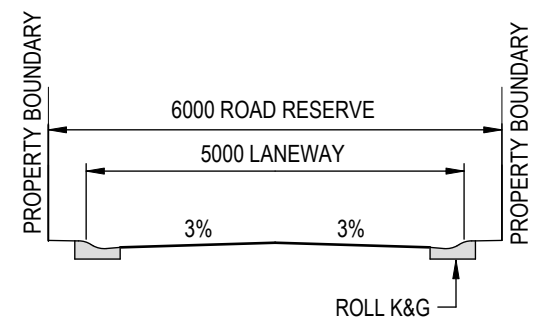
HIGH VOLUME AADT (>1000, <3000 VPD)

CONCRETE PATH
1500 WIDE PATH TYPICAL FOR LOW DEMAND USAGE. PROVIDE 1800 WIDE PATH FOR MEDIUM DEMAND IN ACCORDANCE WITH TECHNICAL SPECIFICATION TABLE 2-D AS REQUIRED



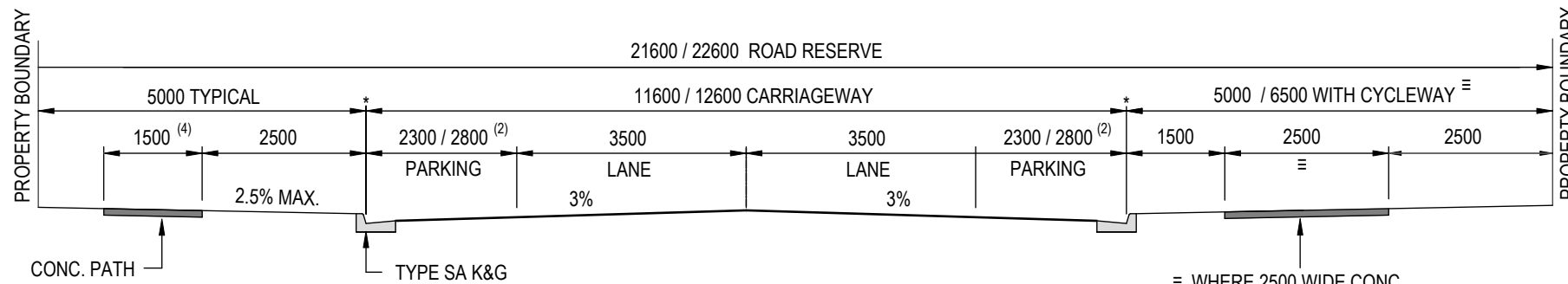
LANEWAY - ONEWAY CROSSFALL

FOR UP TO 200VPD



LANEWAY - CROWNED

FOR UP TO 200VPD

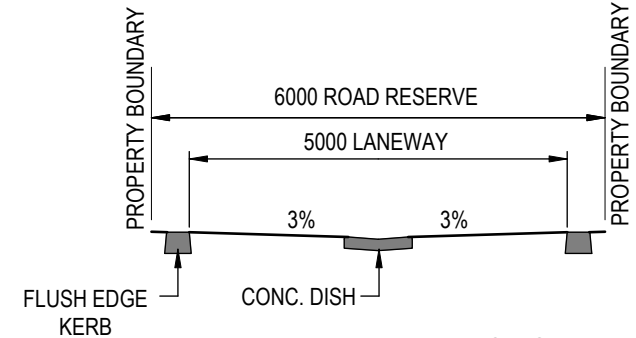


RESIDENTIAL COLLECTOR ROAD

(> 3000 VPD)

≡ (PROVIDE ADDITIONAL ROAD RESERVE WIDTH WHERE CYCLEWAY REQUIRED)

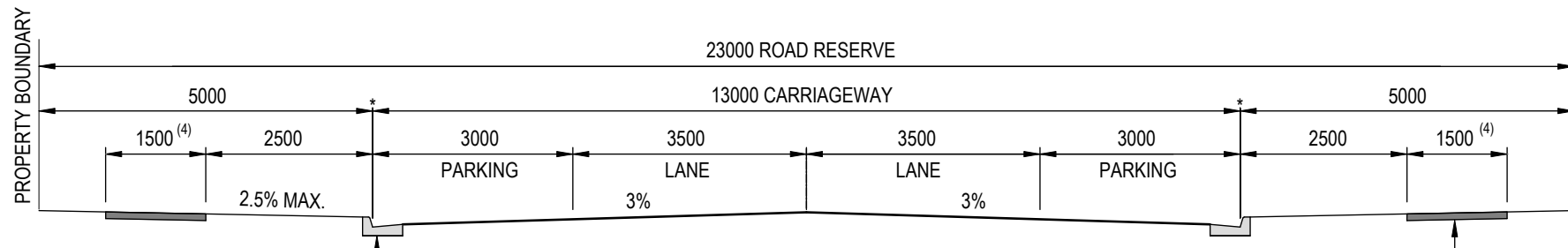
≡ WHERE 2500 WIDE CONC. CYCLEWAY IS REQUIRED INCREASE VERGE TO 6500



LANEWAY - INVERTED CROWN

FOR UP TO 200VPD

- NOTES
- (1) SINGLE DWELLING ALLOTMENT GENERATING TRAFFIC RATE OF 7.4 VEHICLES PER DAY (VPD / ALLOTMENT, REFERENCE AUSTRROADS AGTM-12).
 - (2) ADOPT 2800 PARKING LANE ON BUS ROUTES & 2300 PARKING LANES ELSEWHERE
 - (3) CHECK SWEEPED PATHS & PROVIDE ROAD WIDENING ON CURVES TO ACCOMMODATE PARKING AS REQUIRED.
 - (4) CONCRETE PATH WIDTH SUBJECT TO PEDESTRIAN USAGE DEMAND. REFER TO CITY TECHNICAL SPECIFICATION, TABLE 2-D FOR DETAILS. MINIMUM PATH WIDTH 1500 FOR LOW DEMAND NEW SUBDIVISION WORKS.



INDUSTRIAL / COMMERCIAL ROAD

CONC. PATH ON BOTH VERGES FOR COMMERCIAL AREA ONLY, FOR INDUSTRIAL ESTATES PATH ONLY REQUIRED ON ONE SIDE OF ROAD

DESCRIPTION	VEHICLES / DAY (VPD) ⁽¹⁾	CARRIAGEWAY WIDTH (m)	INTENDED OPERATING SPEED (km/h)	MINIMUM PAVEMENT DESIGN TRAFFIC ESAs
LANE	200	5000	30	8 x 10 ³
ACCESS ROAD (CUL-DE-SAC)	150	8000	30	8 x 10 ³
LOCAL ROAD (LOW VOLUME)	<1000	8300	30	1.5 x 10 ⁵
LOCAL ROAD (HIGH VOLUME)	>1000, <3000	10300	50	1.5 x 10 ⁵
COLLECTOR ROAD ⁽²⁾⁽³⁾	>3000	11600 / 12600 ⁽²⁾⁽³⁾	50/60	2 x 10 ⁶
INDUSTRIAL ROAD	-	13000	50	2 x 10 ⁷
COMMERCIAL ROAD	-	13000	50	5 x 10 ⁶

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

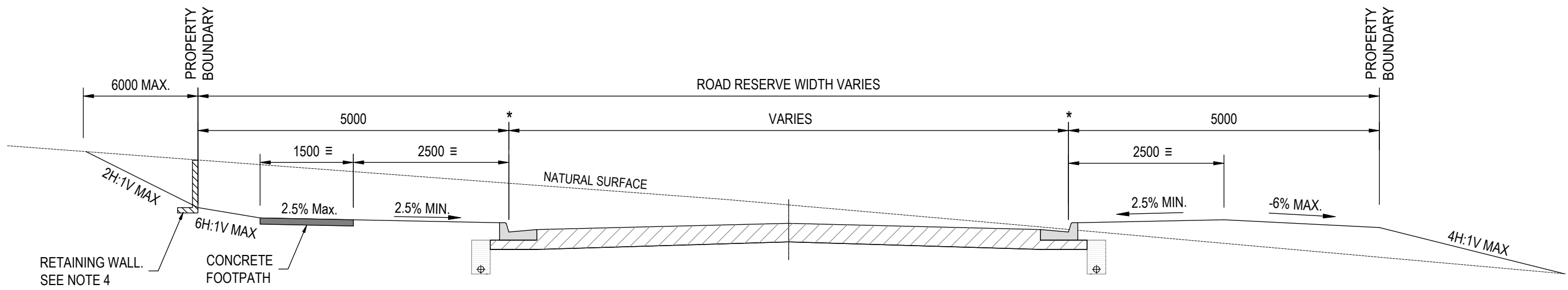
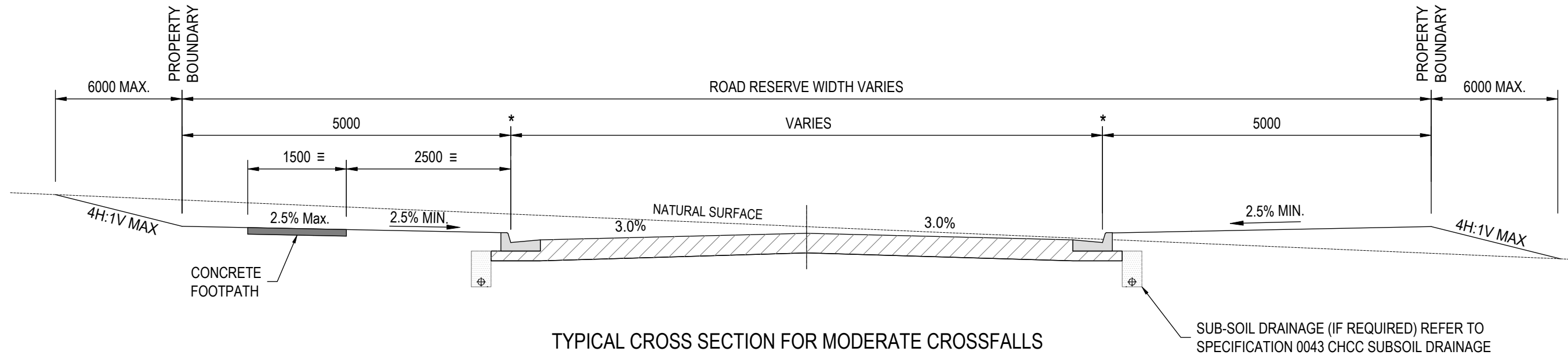
STANDARD DRAWINGS

TYPICAL SECTIONS

RESIDENTIAL / INDUSTRIAL / COMMERCIAL ROADS

Council Plan No.
R-200-02

Orig. Size	Revision
A3	1



KEY

- * NOMINAL KERB LINE.
- ≡ FOR LOW DEMAND PATHWAY SEE TABLE 2-D OF THE TECHNICAL SPECIFICATION FOR INFRASTRUCTURE DESIGN

NOTES

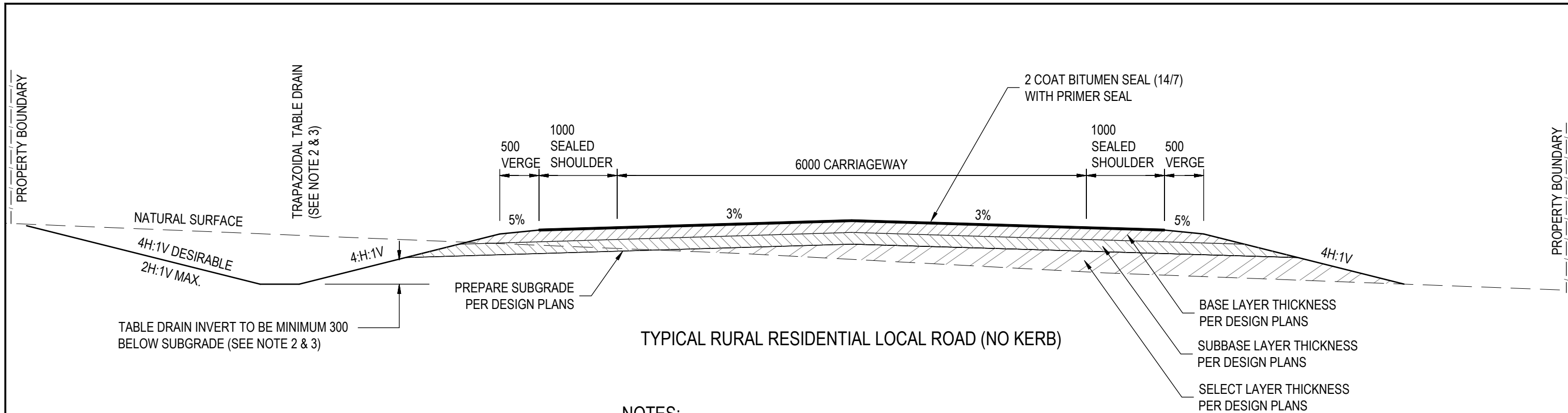
1. FOR PAVEMENT DESIGN REQUIREMENTS REFER TO THE CITY'S TECHNICAL SPECIFICATION
2. SUBSOIL DRAINS IN ACCORDANCE WITH THE CITY'S TECHNICAL SPECIFICATION.
3. CONCRETE FOOTPATH OR CYCLEWAY MAY BE REQUIRED AND SHALL BE CONSTRUCTED PARALLEL TO THE KERB & GUTTER.
4. FOR SITES ON STEEP CROSSFALLS THAT REQUIRE THE CONSTRUCTION OF RETAINING WALLS, THE RETAINING WALL IS TO BE CONSTRUCTED WITHIN PRIVATE PROPERTY AND NOT WITHIN THE ROAD RESERVE.
5. ALL DIMENSIONS ARE IN MILLIMETERS.

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	A	ISSUED FOR USE	B.P.S	D.S	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour, NSW, 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.
TYPICAL RESIDENTIAL ROAD SECTION FOR MODERATE & STEEP TERRAIN		R-200-03
Orig. Size	Revision	
A3	1	



TYPICAL RURAL RESIDENTIAL LOCAL ROAD (NO KERB)

NOTES:

1. AADT TO BE BASED ON ACTUAL COUNTS, OR IF NOT AVAILABLE USE, 7.4 VEHICLES PER DAY PROJECTED TOTAL DWELLINGS
2. MINIMUM SLOPE OF TABLE DRAIN INVERTS SHALL BE 1% (1 IN 100). TRAPAZOIDAL SHAPE TABLE DRAIN ARE PREFERRED WITH A NOMINAL MINIMUM WIDTH OF BASE OF 500mm SUBJECT TO DESIGN.
3. TABLE DRAINS STEEPER THAN 5% SHOULD HAVE LONG TERM EROSION PROTECTION MEASURES INSTALLED.
4. ROADS SHALL BE CONSTRUCTED WITH TRANSVERSE DRAINAGE STRUCTURES IN ACCORDANCE WITH THE CITY'S TECHNICAL SPECIFICATION FOR INFRASTRUCTURE DESIGN.

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



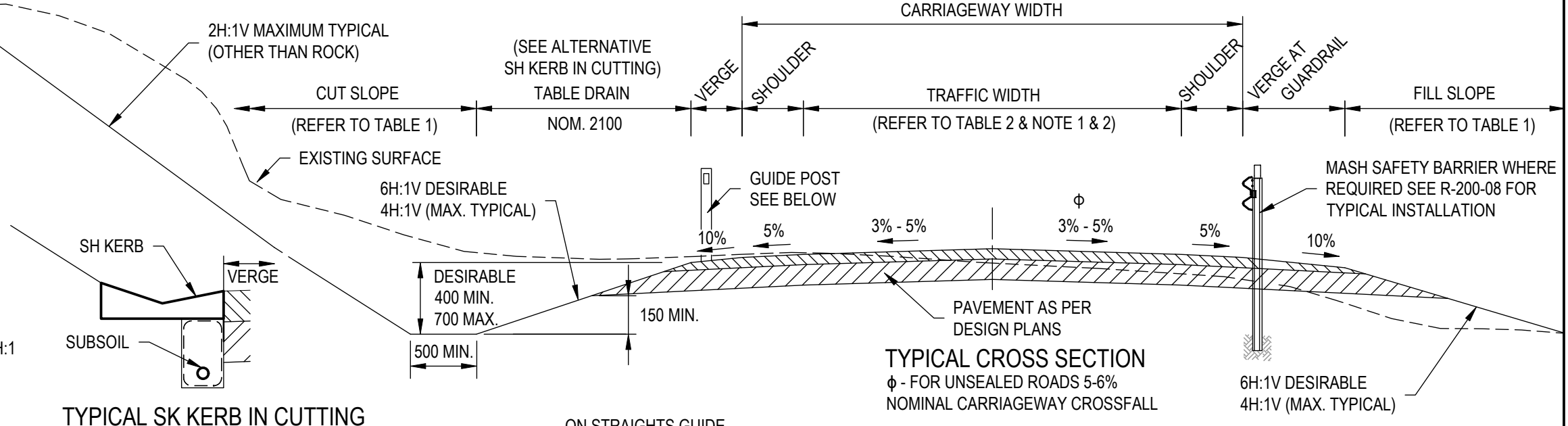
Locked Bag 155
 Coffs Harbour, NSW. 2450
 Ph. (02)66484000
 www.coffsharbour.nsw.gov.au
 coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.
LARGE LOT RURAL RESIDENTIAL ROAD		R-200-04
Orig. Size	Revision	
A3	1	

TABLE 1

SOIL / ROCK TYPE	FILL **	CUTTING
SOLID ROCK	N/A	0.25H : 1V
LOOSE ROCK	2H : 1V	1.33H : 1V
SAND	3H : 1V	3H : 1V
STIFF CLAY	2H : 1V	2H : 1V *
SOFT CLAY	3H : 1V	2H : 1V *

* SLOPE MAY BE INCREASE SUBJECT TO GEOTECH
 ** MAXIMUM FILL SLOPE. USE SUBJECT TO APPROVAL IN CONSTRAINED SITE WHERE DESIREABLE MAXIMUM 4H:1 SLOPE NOT ACHIEVABLE

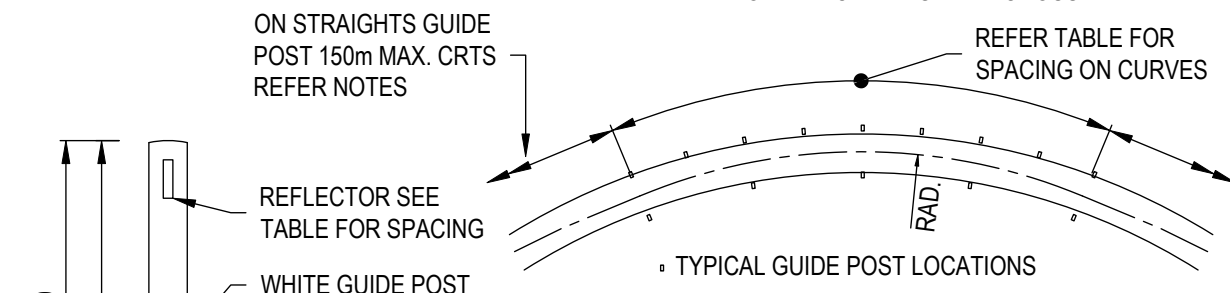


TYPICAL SK KERB IN CUTTING

TABLE 2

ROAD CLASS (6)	AADT (VPD)	LANE WIDTH (W) (7)	SEALED SHOULDER	GRAVEL SHOULDER	CARRIAGE WAY WIDTH	VERGE (TYPICAL)	
						GUIDE POST	SAFETY BARRIER
ARTERIAL RURAL ROAD							
CLASS 3	1000 - 3000	2 x 3.5	2.0	N/A	11.0	1.0	1.5
COLLECTOR & LOCAL RURAL ROAD							
CLASS 3 OR 4	> 500	2 x 3.5	1.0	N/A	9.0	1.0	1.5
CLASS 3 OR 4	150 - 500	2 x 3.1	1.0	N/A	8.2	0.5	1.0
SEALED RURAL ACCESS							
CLASS 5B	80 - 150	2 x 3.0	N/A	0.5	7.0	0.5	1.5
CLASS 5	< 150	3.7 (S)	-	2.5	8.7	0.5	1.0 ⁽⁴⁾
UNSEALED RURAL ACCESS (INCL. NATIONAL PARKS, FORESTRY ACCESS)							
CLASS 5C	40 - 80	2 x 3.0	N/A	0.5	7.0	0.5	1.0
CLASS 5D	< 40	5.5 (D)	N/A	N/A	5.5	0.5	1.0

- PROVIDE FOR CARRIAGEWAY WIDENING ON CURVES.
- (S) DENOTES SINGLE LANE & (D) DENOTES DUAL LANE IN TABLE 2
- PROVISION FOR WIDENING OR PASSING BAYS MAY BE REQUIRED WHERE SIGHT DISTANCE REQUIREMENTS CANNOT BE MET OR THERE ARE LIMITED OPTIONS FOR VEHICLES TO PULL OFF THE ROAD.
- FOR SINGLE LANE BRIDGE, GUARDRAIL SHALL BE 4.5m BETWEEN FACE OF RAILS.
- REFER TO AUSTRROADS "AGRD06-22: PART 6 ROADSIDE DESIGN, SAFETY AND BARRIERS".
- REFER TO AUSTRROADS "AGRD02-19, TABLE 2.2. FOR FUNCTIONAL CLASSIFICATION OF RURAL ROADS
- LANE & SHOULDER DIMENSIONS SHOWN IN ACCORDANCE WITH AUSTRROADS AGRD03-16, TABLE 4.5. FOR CONSTRAINED SITES APPLY EXTENDED DESIGN DOMAIN (EDD) PRINCIPLES.
- UNSEALED SEAL DESIGN IN ACCORDANCE WITH & ARRB UNSEALED DESIGN MANUAL FOR UNSEALED ROADS
- UNSEALED ROADS SHALL BE DESIGNED USING PARAMETERS SET OUT IN ARRB UNSEALED ROADS DESIGN MANUAL. THE ROAD IS TO BE SEALED FOR LONGITUDINAL LONGITUDINAL GRADES GREATER THAN OR EQUAL TO 10% AND OTHER HIGH MAINTENANCE AREAS SUCH AS OVERLAND FLOW PATHS. (MIN. 30m SEAL)
- ROADSIDE TABLE DRAINS, CUT OFF DRAINS AND CULVERTS TO BE INSTALLED TO SUIT TOPOGRAPHY.



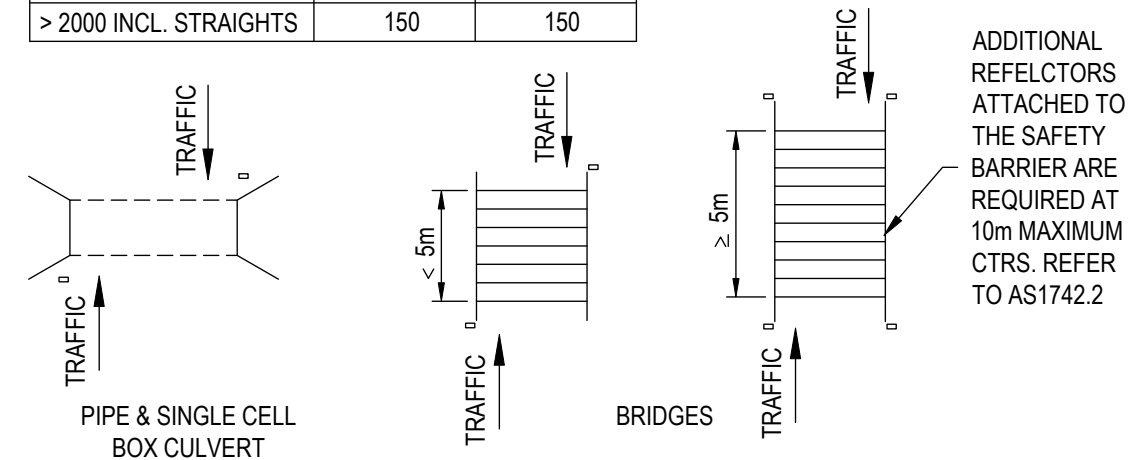
- NOTES - GUIDE POSTS**
- REFER TO AUSTRROADS AGRS09 - 08 ROADSIDE HAZARD MANAGEMENT & AS1742.2 FOR FURTHER DETAILS AS REQUIRED.
 - LOCATION FOR STRAIGHT ALIGNMENT - SPACING OF GUIDE POSTS SHALL GENERALLY BE 150m WITH THE POST IN PAIRS (i.e. ONE EACH SIDE OF THE ROAD). REDUCE TO 60m IN AREAS SUBJECT TO FREQUENT FOG.
 - LOCATION ON HORIZONTAL CURVES - REFER TO TABLE 3. LOCATE FIRST POST AT THE TANGENT POINT OF CURVE. POST ON THE INSIDE OF A CURVE SHALL BE LOCATED OPPOSITE POSTS ON THE THE OUTSIDE OF THE CURVE, WHEREVER PRACTICAL, COMMENCING AT THE T.P.
 - PROVIDE GUIDE POST AT CULVERT HEADWALLS AS PER THE PLAN ARRANGEMENT ON THIS SHEET.

TABLE 3 - GUIDE POST SPACINGS

CURVE RADIUS (m)	SPACING (m)	
	OUTSIDE OF CURVE	INSIDE OF CURVE
<100	6	12
100 - 199	10	20
200 - 299	15	30
300 - 399	20	40
400 - 599	30	60
600 - 799	40	60
800 - 1199	60	60
1200 - 2000	90	90
> 2000 INCL. STRAIGHTS	150	150

DETAIL GUIDE POST REFLECTOR COLOURS

ROAD TYPE	COLOUR	
	LEFT	RIGHT
ONE WAY	RED	YELLOW
TWO WAY	RED	WHITE



ADDITIONAL REFLECTORS ATTACHED TO THE SAFETY BARRIER ARE REQUIRED AT 10m MAXIMUM CTRS. REFER TO AS1742.2

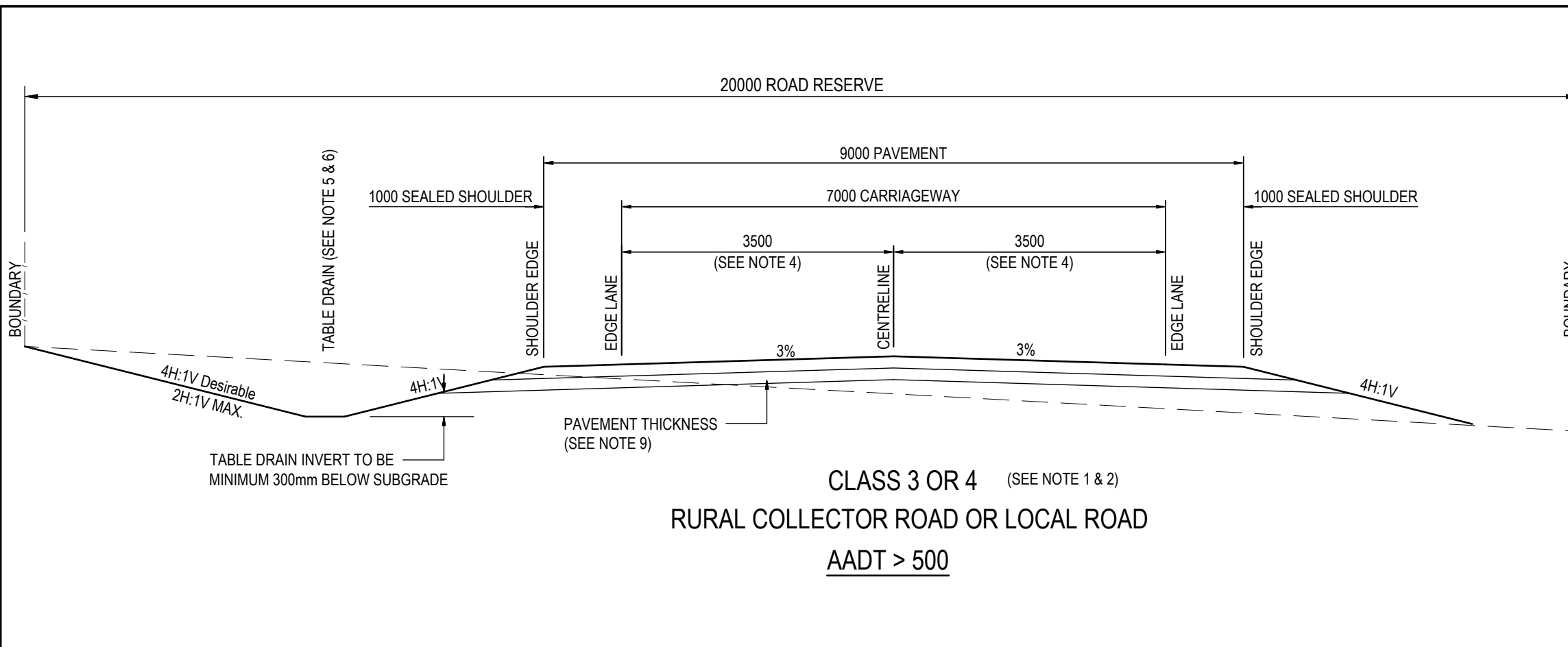
Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR COMMENT	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Aprd.	Date

Locked Bag 155
 Coffs Harbour, NSW. 2450
 Ph. (02)66484000
 www.coffsharbour.nsw.gov.au
 coffs.council@chcc.nsw.gov.au

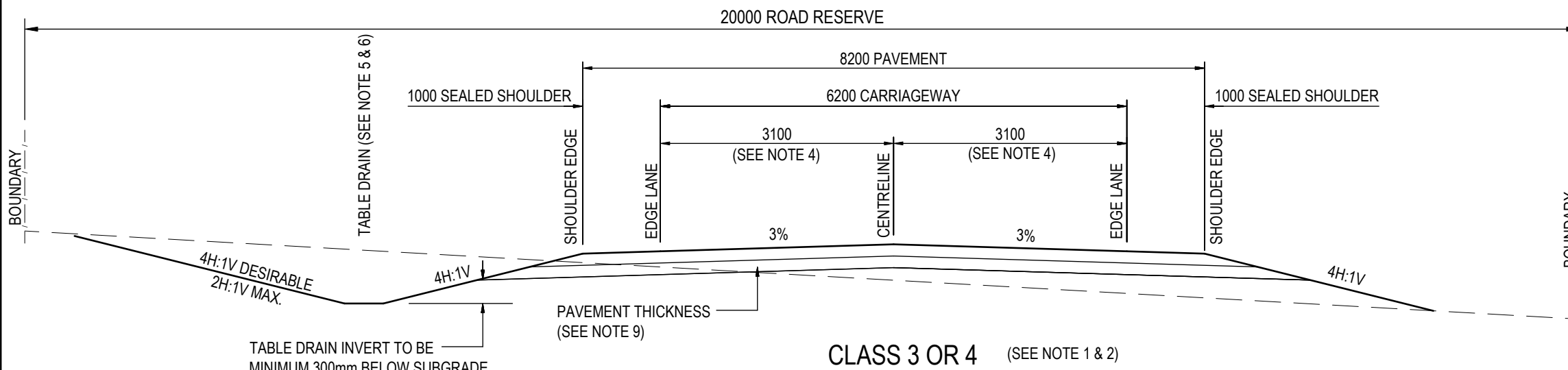
STANDARD DRAWINGS

RURAL ROAD CHARACTERISTICS AND GUIDE POST DETAILS

Council Plan No.	
R-200-05	
Orig. Size	Revision
A3	1



CLASS 3 OR 4 (SEE NOTE 1 & 2)
 RURAL COLLECTOR ROAD OR LOCAL ROAD
 AADT > 500



CLASS 3 OR 4 (SEE NOTE 1 & 2)
 RURAL COLLECTOR ROAD OR LOCAL ROAD
 AADT 150 - 500

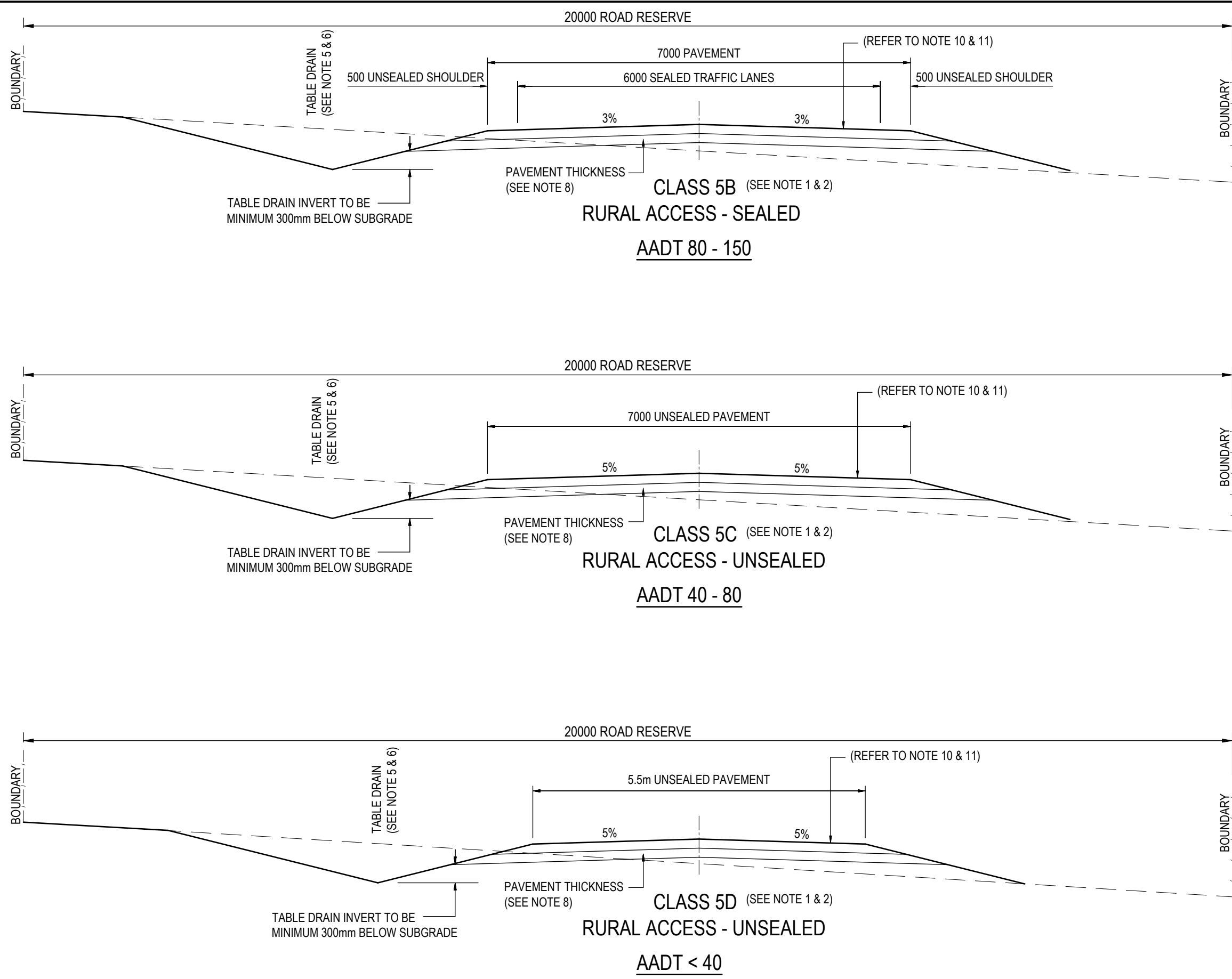
NOTES:

1. CLASS 4 ROADS CONNECT TO CLASS 1, 2 & 3 ROADS. CLASS 4 ROAD MAIN FUNCTION IS TO PROVIDE ACCESS TO ABUTTING PROPERTY (INCLUDING PROPERTY WITHIN A TOWN IN A RURAL AREA). CLASS 1, 2 & 3 ROADS MAIN FUNCTION IS TO FORM AN AVENUE OF MOVEMENT & COMMUNICATION BETWEEN IMPORTANT CENTRES & SERVES THE PURPOSE COLLECTION AND DISTRIBUTION OF TRAFFIC FROM LOCAL AREA TO WIDER ROAD NETWORK.
2. REFER TO AUSTRROADS GUIDE TO ROAD DESIGN, PART 2, DESIGN CONSIDERATIONS, TABLE 2.2 - AUSTRROADS FUNCTIONAL CLASSIFICATION OF RURAL ROADS
3. AADT TO BE BASED ON ACTUAL COUNTS, OR IF NOT AVAILABLE USE, 10 VEHICLES PER DAY PROJECTED TOTAL DWELLINGS
4. CURVE WIDENING TO BE DETERMINED BY ROAD DESIGNER
5. MINIMUM SLOPE OF TABLE DRAIN INVERTS SHALL BE 1% (1 IN 100). TRAPEZOIDAL SHAPE TABLE DRAIN ARE PREFERRED WITH A NOMINAL MINIMUM WIDTH OF BASE OF 500mm SUBJECT TO DESIGN.
6. TABLE DRAINS STEEPER THAN 5% SHOULD HAVE EROSION PROTECTION MEASURES LONG TERM MEASURES INSTALLED.
7. ROADS SHALL BE CONSTRUCTED WITH CROSS ROAD DRAINAGE CULVERTS/FLOODWAYS DESIGN IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN - PART 5 (DRAIANGE DESIGN)
8. FOR PAVEMENT DESIGN REFER TO PROJECT SPECIFIC DESIGN PLANS
9. SEAL DESIGN IN ACCORDANCE WITH AUSTRROADS SPRAY SEAL DESIGN MANUAL
10. SUBSOIL DRAINS MAY BE REQUIRED - REFER TO DRAWING SW-300-16 FOR DETAILS.
11. ALL DIMENSIONS IN MILLIMETERS UNLESS SHOWN OTHERWISE.

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
 Coffs Harbour. NSW. 2450
 Ph. (02)66484000
 www.coffsharbour.nsw.gov.au
 coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.
TYPICAL RURAL ROAD SECTION		R-200-06
CLASS 3 OR 4 - COLLECTOR & LOCAL ROAD		Orig. Size Revision
		A3 1



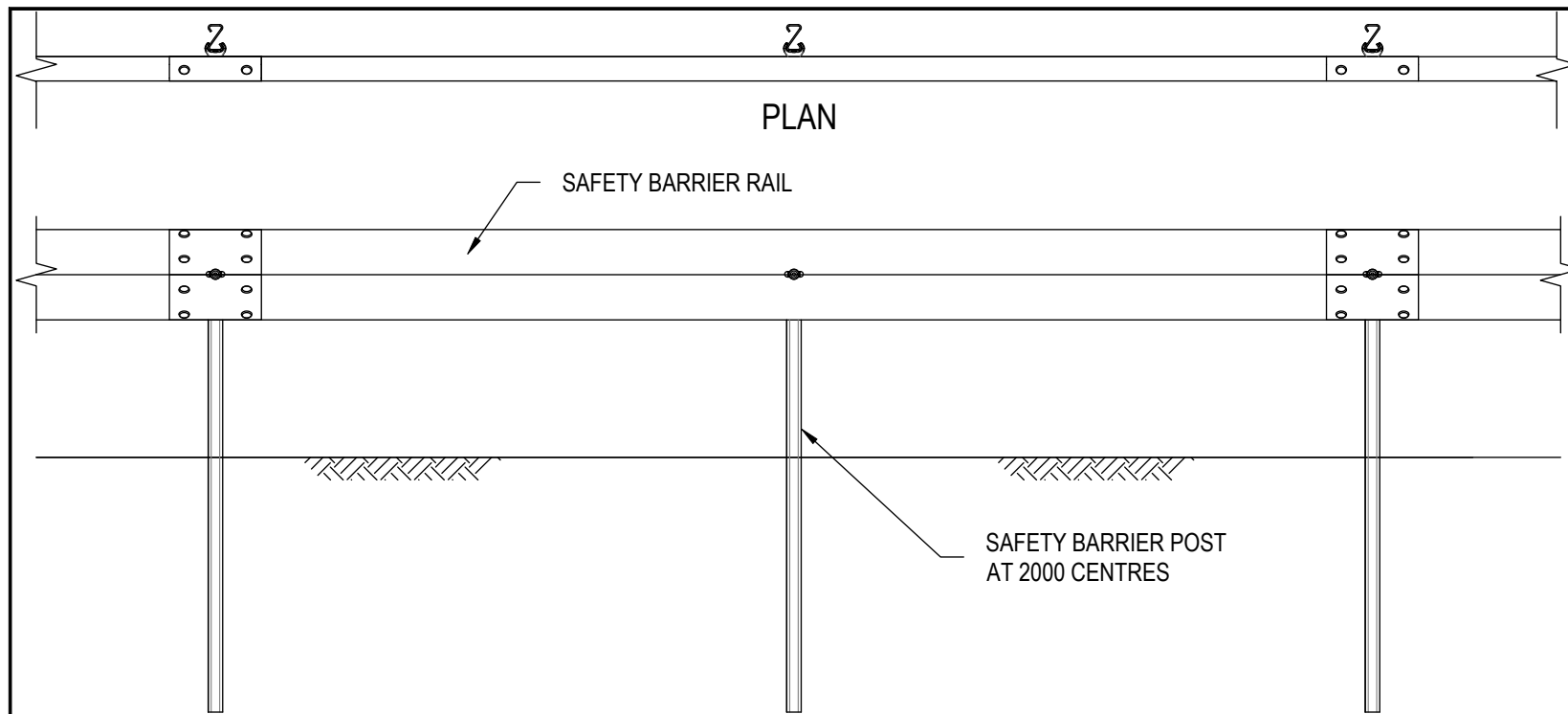
- NOTES:**
- CLASS 5 ROADS FUNCTION TO PROVIDE ACCESS TO RURAL PROPERTIES OR TO PROVIDE ALMOST EXCLUSIVE FUNCTION TO ONE ACTIVITY, ie. ACCESS TO NATIONAL PARKS, FORESTRY ROADS, MINING ETC.
 - REFER TO AUSTRROADS GUIDE TO ROAD DESIGN, PART 2, DESIGN CONSIDERATIONS, TABLE 2.2 - AUSTRROADS FUNCTIONAL CLASSIFICATION OF RURAL ROADS
 - AADT TO BE BASED ON ACTUAL COUNTS, OR IF NOT AVAILABLE USE, 10 VEHICLES PER DAY PROJECTED TOTAL DWELLINGS
 - CURVE WIDENING TO BE DETERMINED BY ROAD DESIGNER
 - MINIMUM SLOPE OF TABLE DRAIN INVERTS SHALL BE 1% (1 IN 100)
 - TABLE DRAINS STEEPER THAN 5% SHOULD HAVE LONG TERM EROSION PROTECTION MEASURES INSTALLED.
 - ROADS SHALL BE CONSTRUCTED WITH CROSS ROAD DRAINAGE CULVERTS/FLOODWAYS DESIGNED IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN - PART 5 (DRAINAGE DESIGN)
 - FOR PAVEMENT DESIGN REFER TO PROJECT SPECIFIC DESIGN PLANS
 - SEAL DESIGN IN ACCORDANCE WITH AUSTRROADS SPRAY SEAL DESIGN MANUAL.
 - UNSEALED SEAL DESIGN IN ACCORDANCE WITH AARB UNSEALED DESIGN MANUAL FOR UNSEALED ROADS.
 - UNSEALED ROADS SHALL BE DESIGNED USING PARAMETERS SET OUT IN AARB UNSEALED ROADS DESIGN MANUAL. THE ROAD IS TO BE SEALED FOR LONGITUDINAL GRADES GREATER THAN OR EQUAL TO 10% AND OTHER HIGH MAINTENANCE AREAS SUCH AS OVERLAND FLOW PATHS (MINIMUM 30m SEAL)
 - ALL DIMENSIONS IN MILLIMETERS UNLESS SHOWN OTHERWISE.

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

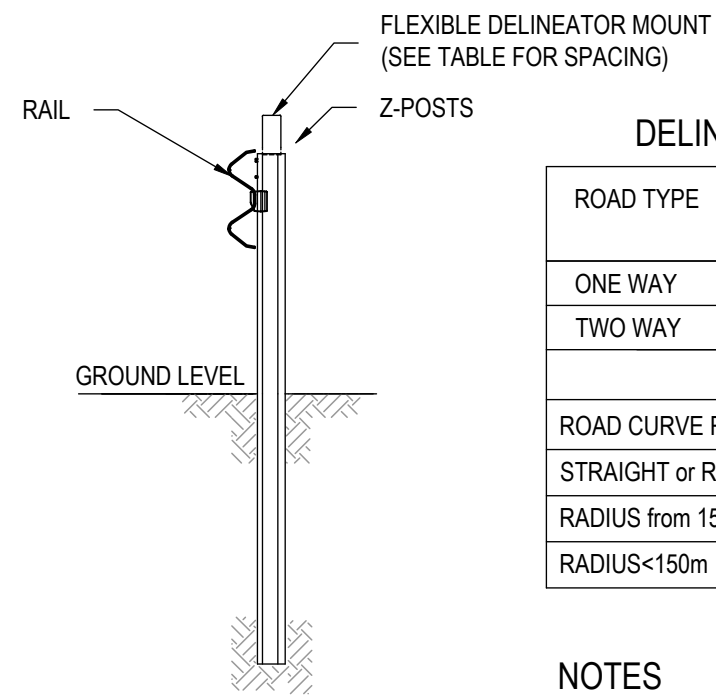


Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.
TYPICAL RURAL ROAD SECTION		R-200-07
CLASS 5 RURAL ACCESS		Orig. Size A3
		Revision 1



ELEVATION - SAFETY BARRIER ASSEMBLY

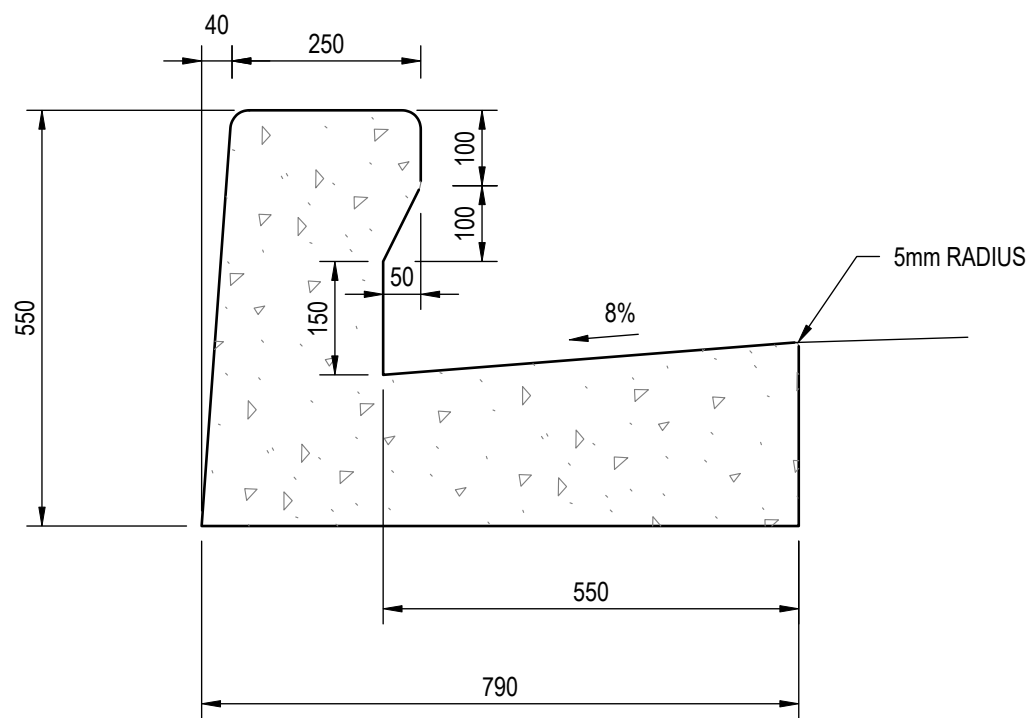


DELINEATOR INSTALLATION

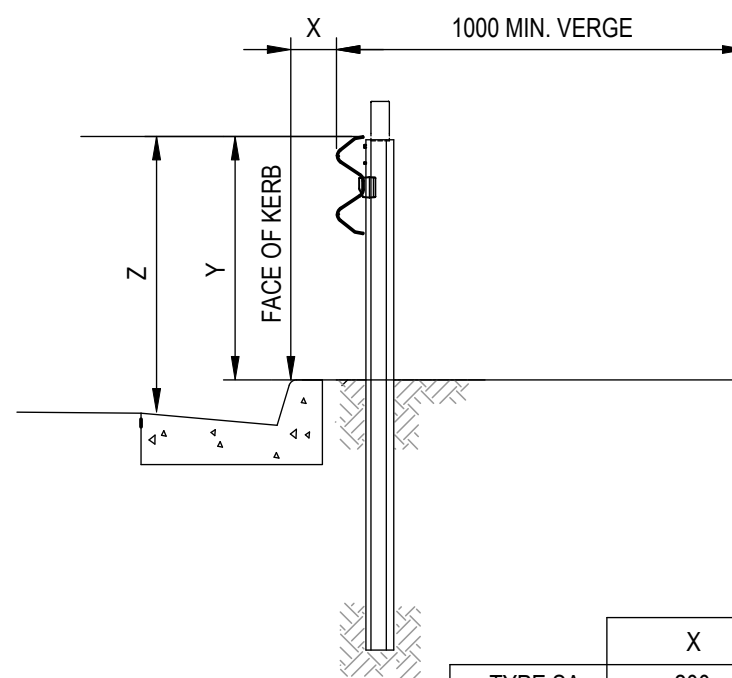
ROAD TYPE	COLOUR	
	LEFT	RIGHT
ONE WAY	RED	YELLOW
TWO WAY	RED	WHITE
SPACINGS		
ROAD CURVE RADIUS	STEEL BEAM	
STRAIGHT or RADIUS>300m	32m	
RADIUS from 150m-300m	20m	
RADIUS<150m	8m	

NOTES

1. PLANS SHOW TYPICAL ARRANGEMENTS FOR "W BEAM" GUARDRAIL WITH "Z POST" FOR INFORMATION PURPOSES ONLY.
2. FOR TYPICAL GUARDRAIL DETAILS. REFER TO AUSTRROADS "AGRD06-22 : PART 6 ROADSIDE DESIGN, SAFETY AND BARRIERS".
3. ALL COMPONENTS HOT DIPPED GALVANISED.
4. DELINEATOR TYPE AS REQUIRED FOR Z POST INSTALLATION TO MANUFACTURES SPECIFICATION.

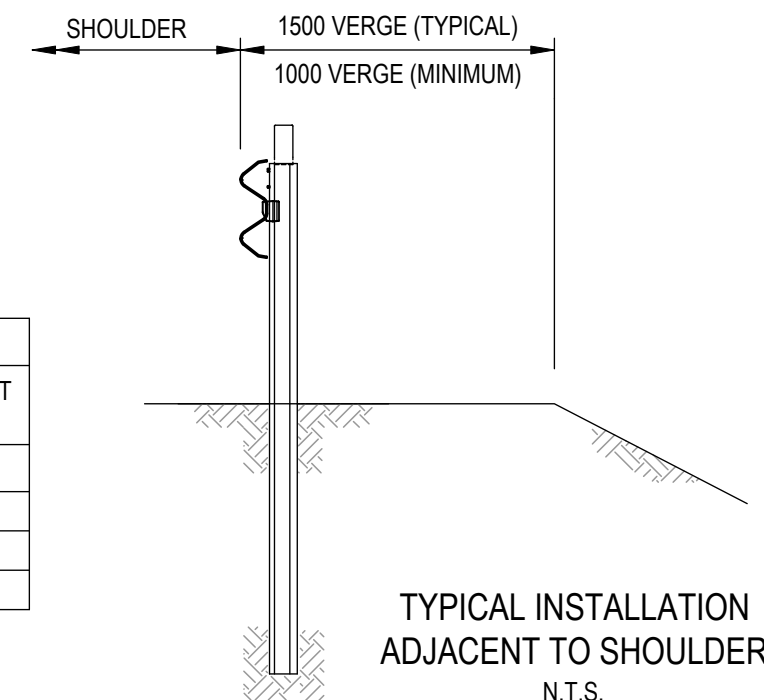


HIGH PROFILE REDIRECTION KERB (HPRK)
N.T.S.



TYPICAL INSTALLATION ADJACENT TO KERB
N.T.S.

	REFERENCE SURFACE		
	X	Y	Z
TYPE SA	200	-	700
TYPE SA	> 2500 min	700	-
TYPE RT	> 2500 min	700	-



TYPICAL INSTALLATION ADJACENT TO SHOULDER
N.T.S.

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR COMMENT	B.P.S	D.S	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

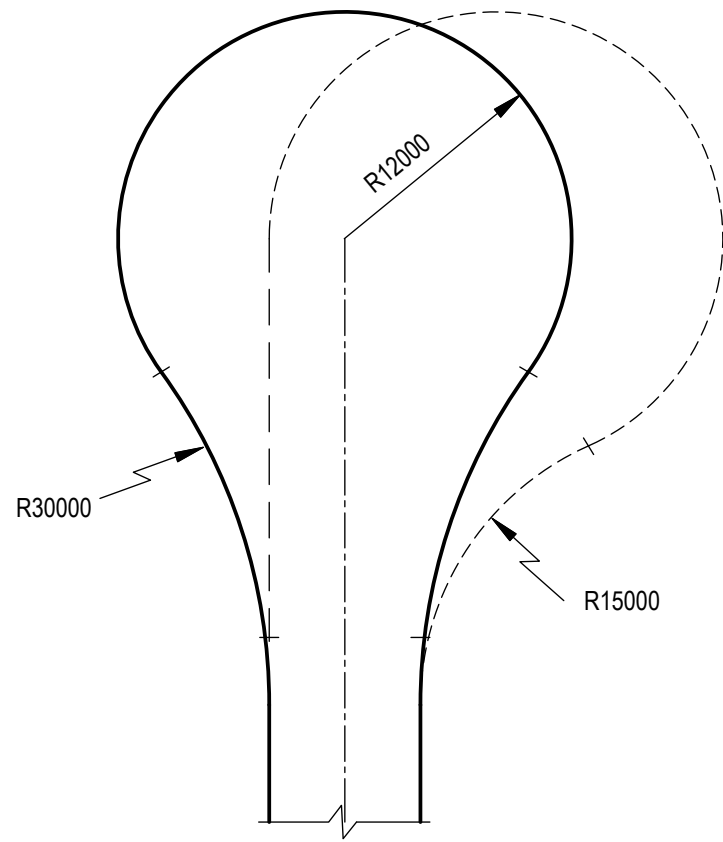


Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS
CONTAINMENT SAFETY BARRIER SYSTEMS

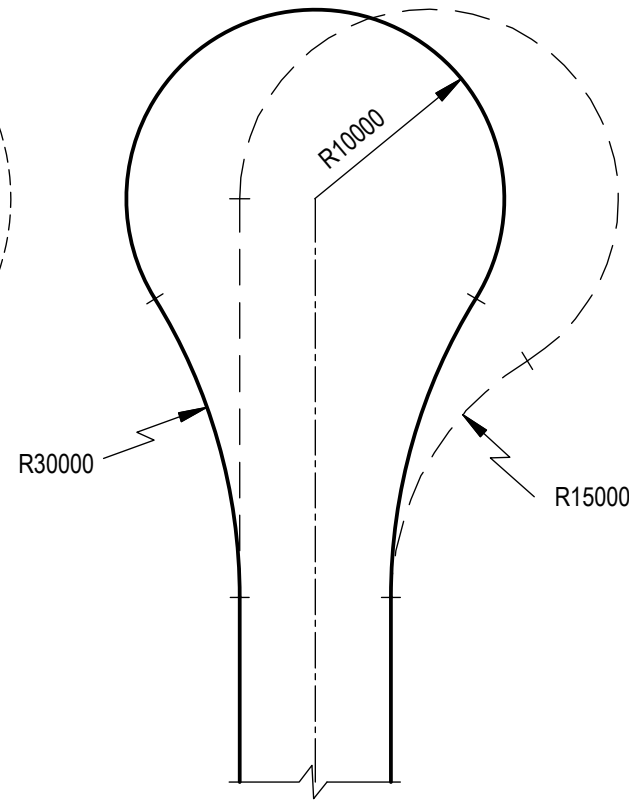
Council Plan No.	
R-200-08	
Orig. Size	Revision
A3	1

TYPICAL CUL-DE-SAC



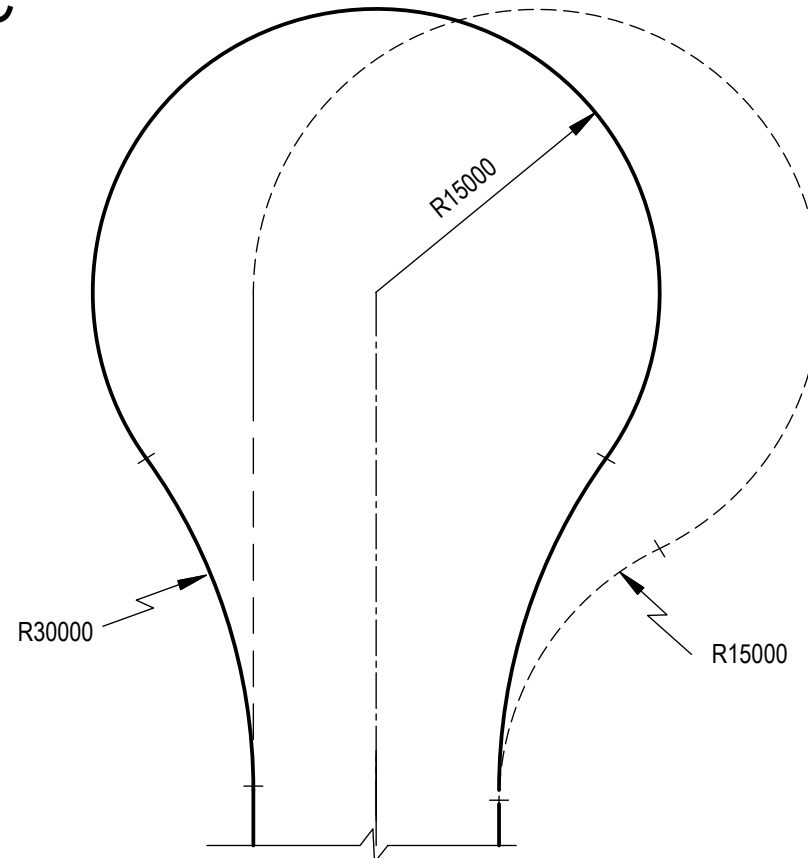
CIRCULAR HEAD

RESIDENTIAL DEVELOPMENT AREA SUBJECT TO FIRE REGULATION REQUIREMENT
SEE NOTE 1



CIRCULAR HEAD

RESIDENTIAL DEVELOPMENT

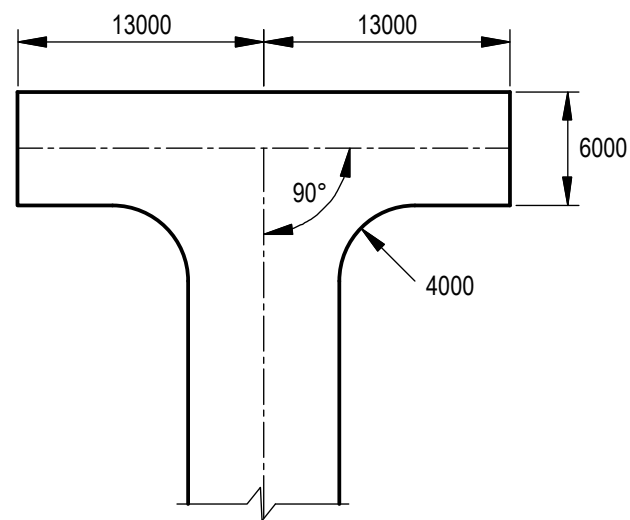


CIRCULAR HEAD

INDUSTRIAL DEVELOPMENT

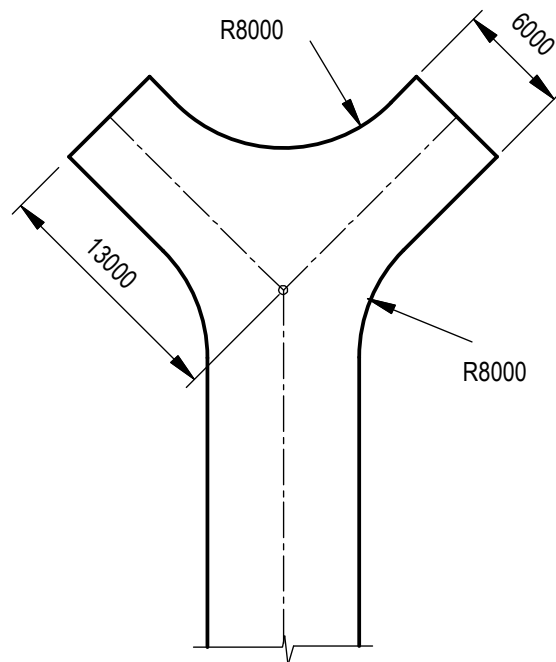
NOTES

1. TYPICAL MINIMUM CIRCULAR HEAD CUL-DE-SAC SHOWN FOR URBAN & RURAL RESIDENTIAL AREAS ARE SUBJECT TO FIRE REGULATION REQUIREMENTS TABLE A3.2 OF THE "PLANNING FOR BUSHFIRE PROTECTION 2019". FOR CUL-DE-SACS WITHIN AN IDENTIFIED FIRE ZONE, A MINIMUM RADIUS OF 12m IS REQUIRED.
2. PERMANENT T-HEAD, Y-HEAD & MODIFIED T-HEAD IN RESIDENTIAL AREAS IS NOT PREFERRED AND IS SUBJECT TO CITY APPROVAL. PRIMARY USE FOR T-HEAD, Y-HEAD & MODIFIED T-HEAD IS FOR TEMPORARY CUL-DE-SAC END FOR FUTURE SUBDIVISION ROAD EXTENSION IN STAGED DEVELOPMENT, OR FOR USE IN COMMUNITY TITLE ROADWAY END SUBJECT TO CITY APPROVAL.
3. APPROACHING ROAD SHALL BE DETERMINED BY ROAD CATEGORIES SETOUT IN THE CITY'S "TECHNICAL SPECIFICATION FOR INFRASTRUCTURE DESIGN".
4. NOTWITHSTANDING THE ABOVE DIMENSIONING, AUSTRALIAN STANDARD AS 2890.2 - PARKING FACILITIES PART 2: OFF-STREET COMMERCIAL VEHICLE FACILITIES SHALL BE USED TO VERIFY AN ADEQUATE MANOEUVRING AREA IS ACHIEVED.
5. ALTERNATIVE LAYOUTS MAY BE CONSIDERED BY THE CITY.



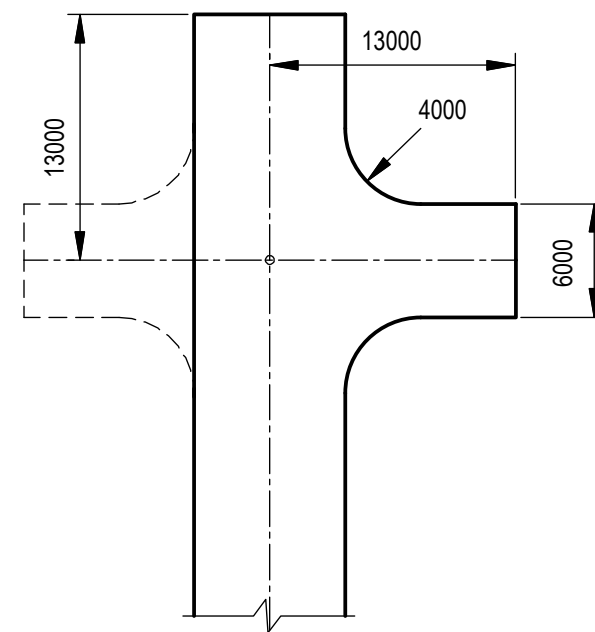
T-HEAD

(SEE NOTE 2)



Y-HEAD

(SEE NOTE 2)



MODIFIED T-HEAD

(SEE NOTE 2)

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

TYPICAL CUL-DE-SAC
RESIDENTIAL ROADS

Council Plan No.

R-200-09

Orig. Size

Revision

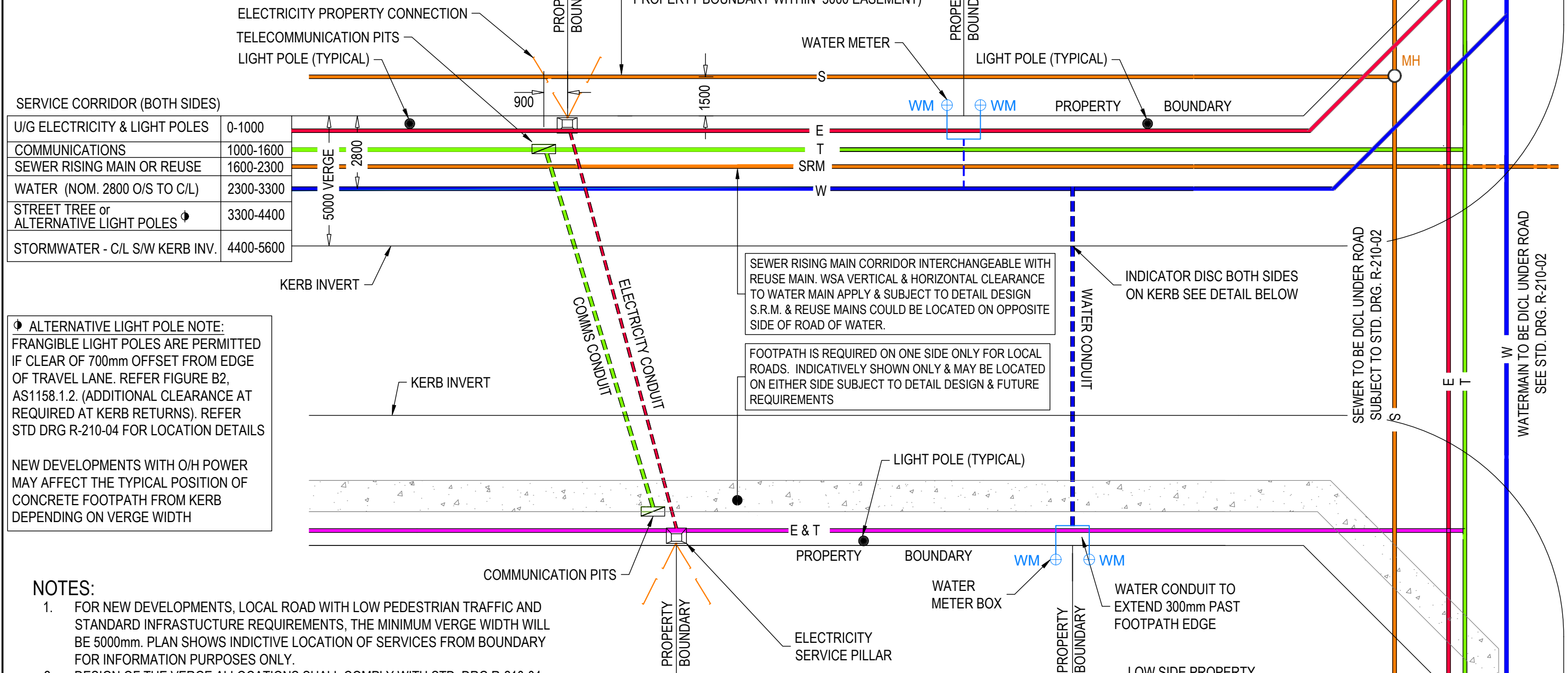
A3

1

LOCAL ROAD - 5000mm WIDE VERGE

REFER TO STD. DRG. R-210-04 FOR TYPICAL SECTION FOR U/G POWER

HIGH SIDE PROPERTY.
SEE NOTE 6



ALTERNATIVE LIGHT POLE NOTE:
FRANGIBLE LIGHT POLES ARE PERMITTED IF CLEAR OF 700mm OFFSET FROM EDGE OF TRAVEL LANE. REFER FIGURE B2, AS1158.1.2. (ADDITIONAL CLEARANCE AT REQUIRED AT KERB RETURNS). REFER STD DRG R-210-04 FOR LOCATION DETAILS

NEW DEVELOPMENTS WITH O/H POWER MAY AFFECT THE TYPICAL POSITION OF CONCRETE FOOTPATH FROM KERB DEPENDING ON VERGE WIDTH

- NOTES:**
- FOR NEW DEVELOPMENTS, LOCAL ROAD WITH LOW PEDESTRIAN TRAFFIC AND STANDARD INFRASTRUCTURE REQUIREMENTS, THE MINIMUM VERGE WIDTH WILL BE 5000mm. PLAN SHOWS INDICATIVE LOCATION OF SERVICES FROM BOUNDARY FOR INFORMATION PURPOSES ONLY.
 - DESIGN OF THE VERGE ALLOCATIONS SHALL COMPLY WITH STD. DRG R-210-04.
 - FOR CIRCUMSTANCES WHERE SHARED PATHS OR LARGE TRUNK INFRASTRUCTURE IS REQUIRED, SPECIFIC DESIGN IS REQUIRED AND A WIDER VERGE SHALL BE PROVIDED AS PER STD. DRG R-210-05.
 - GRAVITY SEWER IS GENERALLY LOCATED WITHIN THE LOT BOUNDARY AT 1500 OFFSET.
 - SEWER RISING MAINS & REUSE MAINS ARE TO BE LOCATED IN THE VERGE. DESIGN TO COMPLY WITH WSA03-2011 TABLE 5.5 FOR MINIMUM OFFSETS VERTICALLY AND HORIZONTALLY TO ADJACENT SERVICES. CONSIDERATION TO BE GIVEN TO LOCATING S.R.M OR REUSE ON OPPOSITE VERGE TO WATER MAINS IF PRACTICAL.
 - HIGH SIDE PROPERTY:** WATER MAIN LOCATION SHOULD CONSIDER RISK OF A MAINS BREAK & RISK OF FLOODING PRIVATE PROPERTY. LOCATING MAINS ON FOOTPATH SIDE WHERE PRIVATE PROPERTY GRADE TO KERB IS PREFERRED.

LEGEND

WATER	W	---
SEWER	S	---
SEWER RISING MAIN	SRM	---
TRUNK TELECOMMUNICATIONS	T	---
ELECTRICITY / TELECOMMUNICATIONS	E & T	---
ELECTRICITY (HV & LV)	E	---

CONDUITS SHOWN BY DASHED LINES

LOCATE MARKER DISCS DIRECTLY OVER SERVICE CONDUITS

100

55

35 NOM.

SECTION A-A

PLAN

SERVICE MARKERS

- W - WATER SERVICE
- WM - WATER MAIN
- E - ELECTRICAL SERVICE
- T - TELECOMMUNICATION SERVICE
- S - SEWERAGE MAIN

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

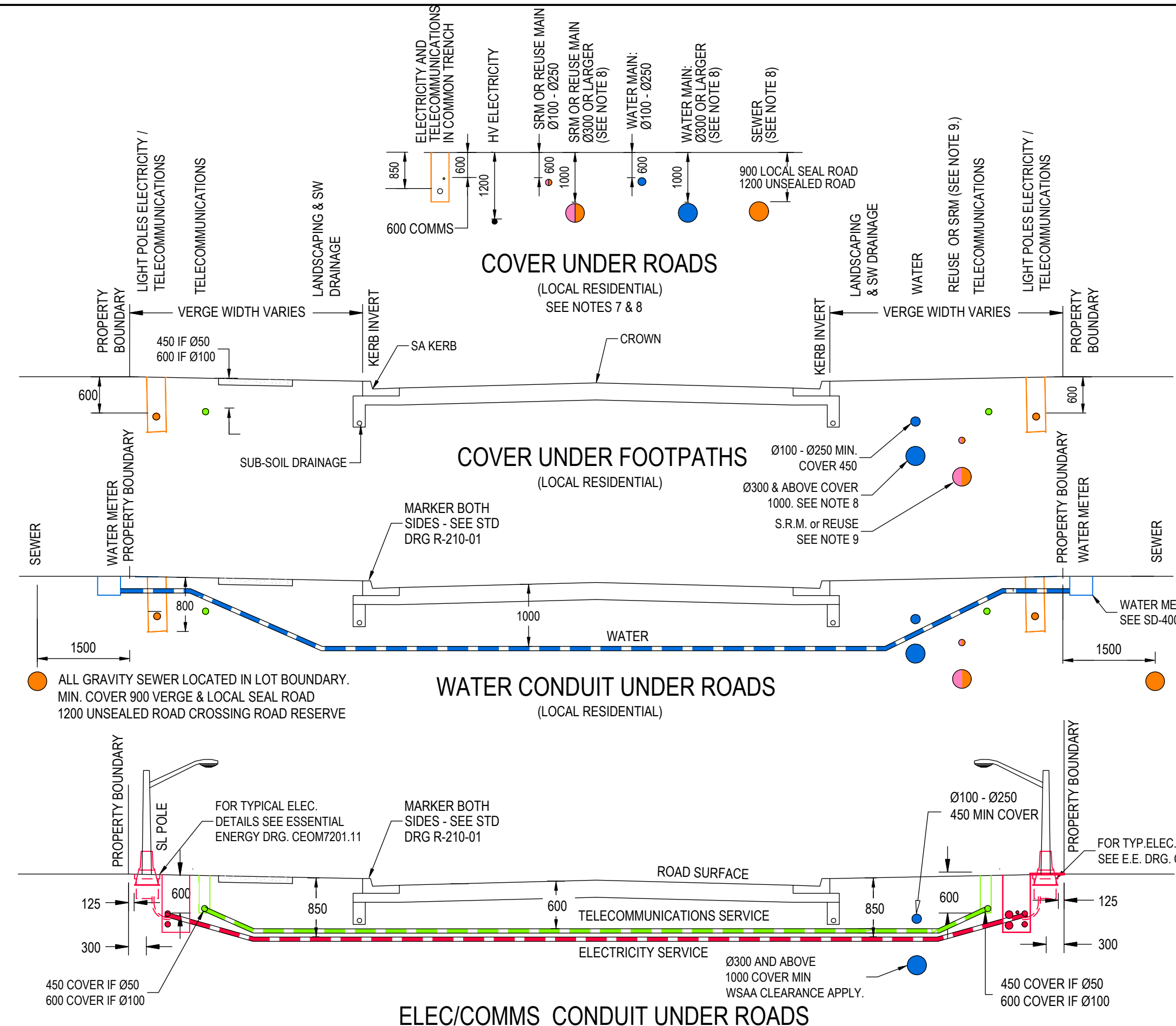
STANDARD DRAWINGS

PUBLIC UTILITIES
PLAN OF TYPICAL SERVICE CORRIDORS
LOCAL ROADS

Council Plan No.
R-210-01

Orig. Size
A3

Revision
1



LEGEND

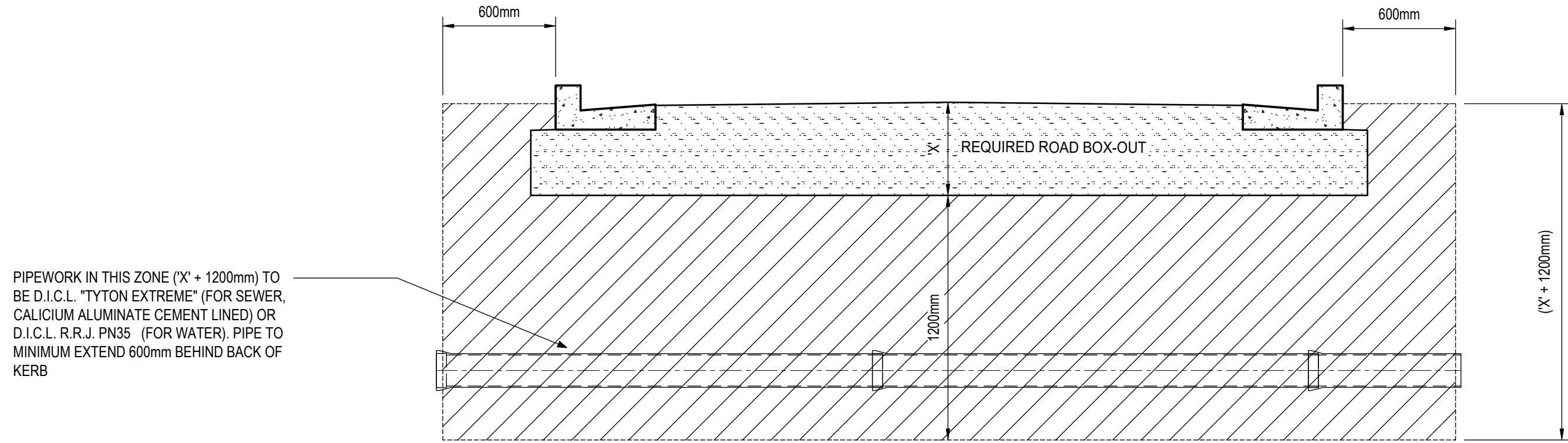
WATER	W	---
REUSE WATER	REW	---
SEWER	S	---
SEWER RISING MAIN	SRM	---
TELECOMMUNICATIONS	T	---
ELECTRICITY / TELECOMMUNICATIONS	E & T U/G	---

- ### NOTES
1. PLAN SHOWS NOMINAL DEPTHS OF SERVICES UNDER ROADS & FOOTPATH IN RESIDENTIAL AREAS AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
 2. MINIMUM COVERS SHOWN ON THIS PLAN ARE FOR TYPICAL RESIDENTIAL STREETS. FOR MAJOR ROADWAYS AND UNSEALED ROADS REFER TO STD. DRG. No. T-550-02 FOR MINIMUM COVER REQUIREMENTS FOR WATER & SEWER MAINS.
 3. REFER TO STD. DRG. R-210-01 FOR PLAN OF TYPICAL SERVICE CORRIDORS AND ALIGNMENTS.
 4. FOR TYPICAL ELECTRICITY TRENCHING DETAILS ADJACENT PARALLEL PROPERTY BOUNDARIES REFER TO ESSENTIAL ENERGY DRAWING CEOM7201.11. ELECTRICITY CONDUITS ADOPTED ARE TYPICALLY:
 - 40Ø FOR STREET LIGHTING
 - 80Ø FOR LV, 100Ø FOR 11kV
 - 100Ø /125Ø FOR HIGH VOLTGLE, 33kV
 5. VERTICAL CLEARANCES BETWEEN WATER MAINS & SEWER MAINS, STORMWATER, ELEC. & TELECOMMUNICATIONS TO BE IN ACCORDANCE WITH WSA02.2011-3.1 TABLE 5.5.
 6. BRASS INDICATOR DISCS TO BE PLACED IN KERB OVER ALL CONDUITS.
 7. SERVICE PROVIDERS SHALL BE CONSULTED PRIOR TO ESTABLISHING SERVICE LOCATION WITHIN THE ROAD RESERVE.
 8. THE CITY OF COFFS HARBOUR STANDARD ROAD CROSSINGS TYPICALLY REQUIRES WATER / REUSE / SEWER & SEWER RISING MAINS ABOVE DN100 TO BE DICL FOR WATER OR CALCIUM ALUMINATE CEMENT LINED DICL FOR SEWER (TYTON EXTREME). EXEMPTION IS FOR MAINS DEEPER THAN 1200mm BELOW SUBGRADE. REFER TO STD. DRG. R-210-03 FOR DETAILS.
 9. SEWER RISING MAINS & REUSE ARE TO BE LOCATED IN THE VERGE. DESIGN TO COMPLY WITH WSA03-2011 TABLE 5.5, MINIMUM OFFSETS VERTICALLY AND HORIZONTALLY TO WATER MAINS. CONSIDERATION TO BE GIVEN TO LOCATING S.R.M OR REUSE ON OPPOSITE VERGE TO WATER MAINS IF PRACTICAL.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Aprd.	Date

Locked Bag 155
Coffs Harbour, NSW, 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

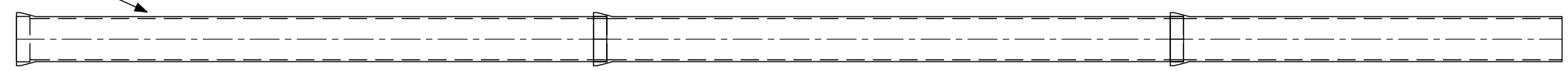
STANDARD DRAWINGS		Council Plan No.	
		R-210-02	
PUBLIC UTILITIES TYPICAL ROAD CROSSING		Orig. Size	Revision
		A3	1



PIPEWORK IN THIS ZONE ('X' + 1200mm) TO BE D.I.C.L. "TYTON EXTREME" (FOR SEWER, CALICIUM ALUMINATE CEMENT LINED) OR D.I.C.L. R.R.J. PN35 (FOR WATER). PIPE TO MINIMUM EXTEND 600mm BEHIND BACK OF KERB

FOR PIPEWORK IN THIS ZONE (DEEPER THAN 'X' + 1200mm), D.I.C.L. RECOMMENDED BUT PVC SN8 FOR GRAVITY SEWERS AND OPVC PN16 OR MPVC PN16 FOR PRESSURE MAINS WOULD BE ACCEPTABLE SUBJECT TO CITY OF COFFS APPROVAL

PVC COLLARS NOT TO BE USED ON DICL PIPE SPIGOTS SEE DETAIL BELOW

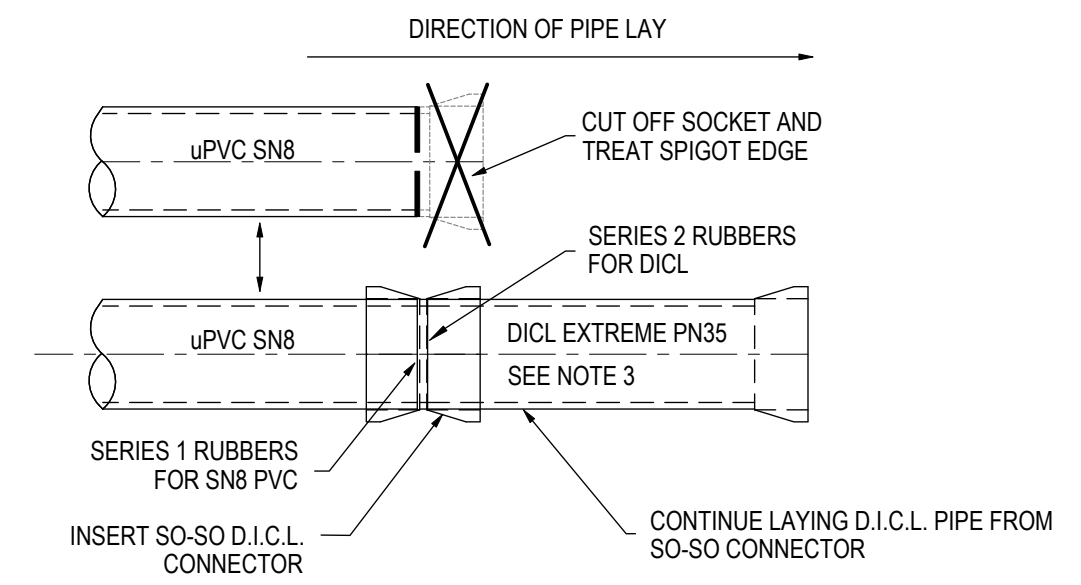


PIPE TYPES UNDER ROADS

NOT TO SCALE

NOTE :

1. PLAN SHOWS ALLOWABLE PIPE TYPES FOR WATER & SEWER, SUBJECT TO APPROVAL, FOR USE UNDER ROADWAYS AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
2. PVC COLLARS NOT TO BE USED ON DICL PIPE SPIGOTS. PROVIDE A DICL SOC-SOC CONNECTOR WHERE REQUIRED WHEN JOINING PVC TO DICL.
3. FOR SEWER LINES ONLY DICL MAINS TO BE CALCIUM ALUMINATE LINED.



TYPICAL CONNECTION OF D.I.C.L. PIPE TO PVC DETAIL

(uPVC SN8 SEWER SHOWN, OPVC, MPVC PN16 WITH DN35 DICL SIMILAR)

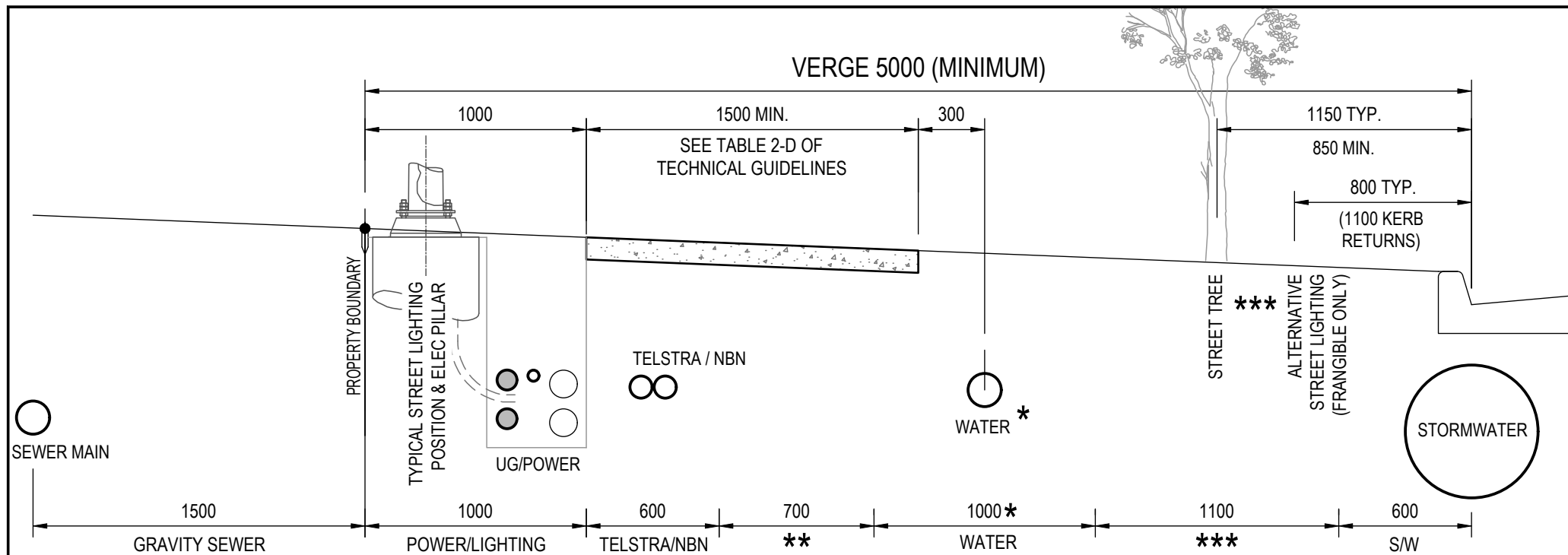
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

WATER / SEWER PIPE TYPES UNDER ROADS
MINIMUM REQUIREMENTS

Council Plan No.	
R-210-03	
Orig. Size	Revision
A3	1



GENERAL NOTES:

1. PLANS SHOWS TYPICAL SERVICE CORRIDORS FOR LOCAL ROADS IN NEW DEVELOPMENTS, WITH UNDERGROUND POWER AND STREET TREE LANDSCAPING & SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
2. FOR CIRCUMSTANCES WHERE WIDER PEDESTRIAN PATHS ARE REQUIRED, OR LARGE TRUNK INFRASTRUCTURE IS REQUIRED SPECIFIC DESIGN IS REQUIRED TO DETERMINE THE APPROPRIATE VERGE WIDTH.
3. BRASS INDICATORS DISCS TO BE PLACED IN KERB OVER ALL CONDUITS.
4. FOR DETAIL ON WATER MAIN MINIMUM COVER SEE STD. DRG. T-550-02
5. REFER TO ESSENTIAL ENERGY DRG. CEOM7201.11 FOR TYPICAL UNDERGROUND POWER DETAILS.
6. FOR TYPICAL STREET TREE PLANTING REFER STD. DRG. LS-600-02.
7. IF A SEWER RISING MAINS IS REQUIRED IT IS TO BE LOCATED IN THE VERGE WIDTH. DESIGN TO COMPLY WITH WSA03-2011 TABLE 5.5, MINIMUM OFFSETS VERTICALLY AND HORIZONTALLY TO WATER MAINS. CONSIDERATION TO BE GIVEN TO LOCATING THE SRM ON OPPOSITE VERGE TO WATER MAINS IF PRACTICAL.
8. GRAVITY SEWER IS GENERALLY LOCATED WITHIN THE LOT BOUNDARY AT NOMINAL MINIMUM 1.5m OFFSET. REFER TO TECHNICAL SPECIFICATION FOR SEWER EASEMENT REQUIREMENTS.
9. SERVICE PROVIDERS SHALL BE CONSULTED PRIOR TO ESTABLISHING SERVICE LOCATIONS WITHIN THE ROAD RESERVE.

CONCRETE PATH & WATER MAIN NOTES:

10. CONCRETE FOOTPATH IS ONLY REQUIRED ON ONE SIDE OF LOCAL STREETS. PLANS SHOW PATH AT A TYPICAL 1.0m OFFSET FROM BOUNDARY AS INDICATIVELY SHOWN. CONCRETE FOOTPATH LOCATION IS NOT LIMITED TO THIS LOCATION SUBJECT TO CITY APPROVAL.
11. THE CITY'S PREFERENCE IS FOR CONCRETE PATH NOT TO BE PLACED OVER WATER MAINS FOR MAINTENANCE ACCESS REASONS & POSSIBLE NEED FOR FUTURE TAPPINGS. THE WATERMAIN IS PREFERRED TO BE LOCATED ON OPPOSITE SIDE OF ROAD RESERVE TO CONCRETE PATH FOR LOCAL ROADS. ADDITIONALLY IT IS PREFERRED THE WATER MAIN BE LOCATED ON THE HIGH SIDE OF THE TERRAIN TOPOGRAPHY IN THE EVENT OF A MAINS BREAK (THIS IS TO MITIGATE THE RISKS OF A MAINS BREAK INUNDATING PRIVATE PROPERTY ON LOW SIDE OF ROAD RESERVE).

- * DENOTES CORRIDOR WIDTH FOR MAINS UP TO 3000. WHERE ADJACENT TO STREET TREE PROVIDE 1000mm CLEARANCE. WHERE WATER MAIN REQUIRES THRUST ANCHORAGE IN ACCORDANCE WITH STD. DRG. T-550-11, THE ANCHOR BLOCK CAN EXTEND INTO THE ADJACENT ALLOCATED SERVICE CORRIDOR IF NOT CONSIDERED REQUIRED FOR FUTURE USE, OTHERWISE ALTERNATIVE THRUST RESTRAINT DESIGN IS REQUIRED.
- ** DENOTES CORRIDOR FOR MINOR SEWER RISING OR REUSE MAINS WHERE REQUIRED (≤ 1500)
- *** DENOTES CORRIDOR FOR LANDSCAPING AND ALTERNATIVE FRANGIBLE LIGHT POLE LOCATION IN ACCORDANCE WITH AS1158.1 SUBJECT TO CITY APPROVAL.

**LOCAL ROAD
TYPICAL VERGE 5000mm WIDE**
(TYPICAL VERGE FOR NEW DEVELOPMENTS WITH STREET TREES & U/G POWER ONLY)

DRIVEWAY SIGHT DISTANCE NOTES:

12. PATH USER SPEED 5km/hr WALKING SPEED, PEDESTRIAN PATH ONLY ON URBAN STREETS IN ACCORDANCE WITH DRAFT AS2890.1, TABLE 3.4.
13. IN ACCORDANCE WITH REFERENCE DRAFT AS2890.1, FIGURE 3.2 & TABLE 3.4, MINIMUM SIGHT DISTANCE ALONG FRONTAGE PATH FROM ACCESS DRIVEWAY DIMENSION ARE AS SHOWN IN FIGURE. 3.2.;
 - DOMESTIC DRIVEWAY: X= 2500 & Y=3000
 - OTHER DRIVEWAY: X= 5000 & Y=3000
 ANY OBJECT PERMANENTLY LOCATED WITHIN THE VISIBILITY TRIANGLE SHOWN IN FIG 3.2 SHALL BE:
 - (a) LESS THAN 800mm HIGH OR ABOVE 2m HIGH; OR
 - (b) VISUALLY PERMEABLE SO AN OBJECT, 800mm IN HEIGHT AND 150mm IN DIAMETER, CAN BE IDENTIFIED FROM A DRIVERS VIEW.
 - (c) WHERE THE ABOVE REQUIREMENTS OF (a) & (b) CANNOT BE MET, SUITABLE MITIGATION MEASURES SHALL BE USED AND MAY INCLUDE:
 - DEVICES TO REDUCE VEHICLE SPEED ON THE DRIVEWAY
 - MEASURES TO REDUCE THE SPEED OF THE PATH USER OR MEASURES TO ALERT USERS OF APPROACHING VEHICLES.
14. IN ACCORDANCE WITH REFERENCE DRAFT AS2890.1, CI.3.2.5;
 - (a) DRIVERS LEAVING TYPICALLY HAVE AN EYE HEIGHT OF 1.1m.
 - (b) THE ADJACENT PATH USER TYPICAL HEIGHT IS 0.8m FOR A SMALL CHILD.
15. FOR PATH USER SPEEDS OF 10km/h, DETAILED DESIGN AND COUNCIL APPROVAL IS REQUIRED FOR DETERMINING THE APPROPRIATE VERGE AND PATH WIDTH (TYPICALLY 10km/hr JOGGING SPEED OR CHILD CYCLIST) TYPICALLY 1.8 - 2m WIDE PATH NEAR SCHOOLS, SHOPPING CENTRES, RECREATIONAL FACILITIES, PATH USED BY CYCLIST OR MOBILITY DEVICES.

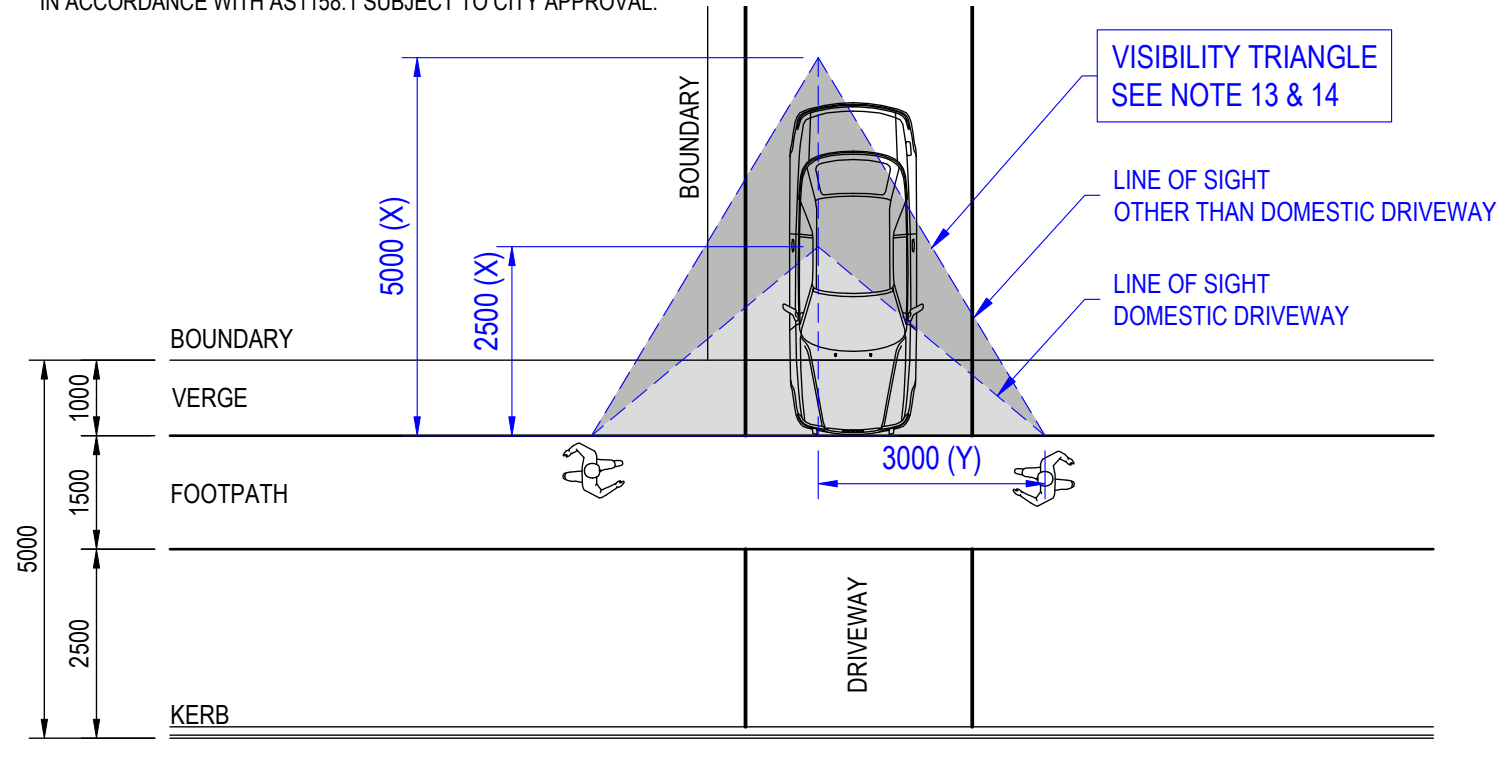
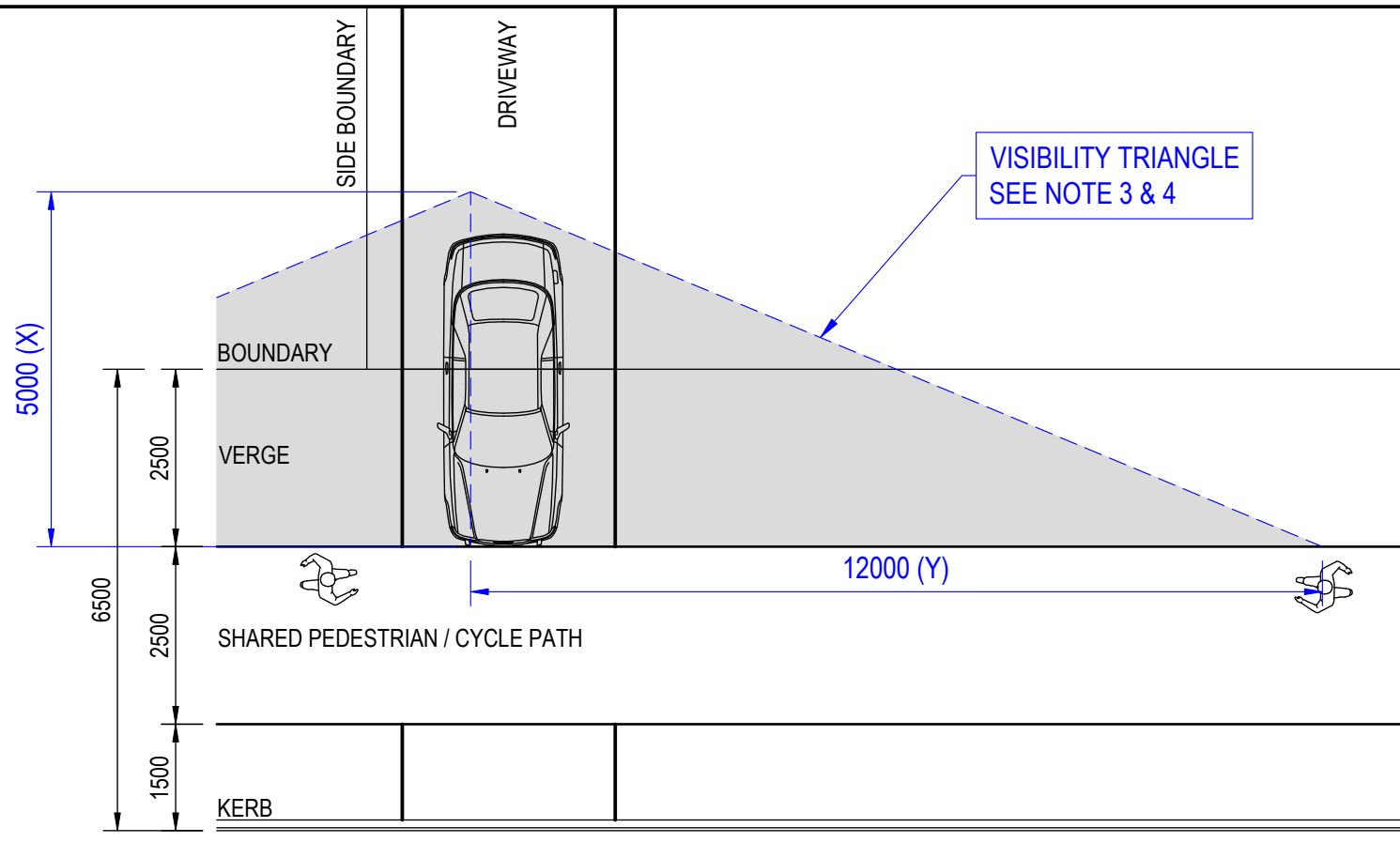


FIGURE 3.2 - ILLUSTRATION OF SIGHT DISTANCES TO PATH
(REFERENCE DRAFT AS2890.1 FIGURE 3.2)

Drawn	B.P.S						<p>Locked Bag 155 Coffs Harbour. NSW. 2450 Ph. (02)66484000 www.coffsharbour.nsw.gov.au coffs.council@chcc.nsw.gov.au</p>	<p>STANDARD DRAWINGS</p> <p>TYPICAL SERVICE ALLOCATIONS</p> <p>LOCAL ROADS</p>		Council Plan No.	
Checked	C.B.					R-210-04					
Approved	D.S.					Orig. Size		Revision			
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024		A3	1		
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date					



NOTES:

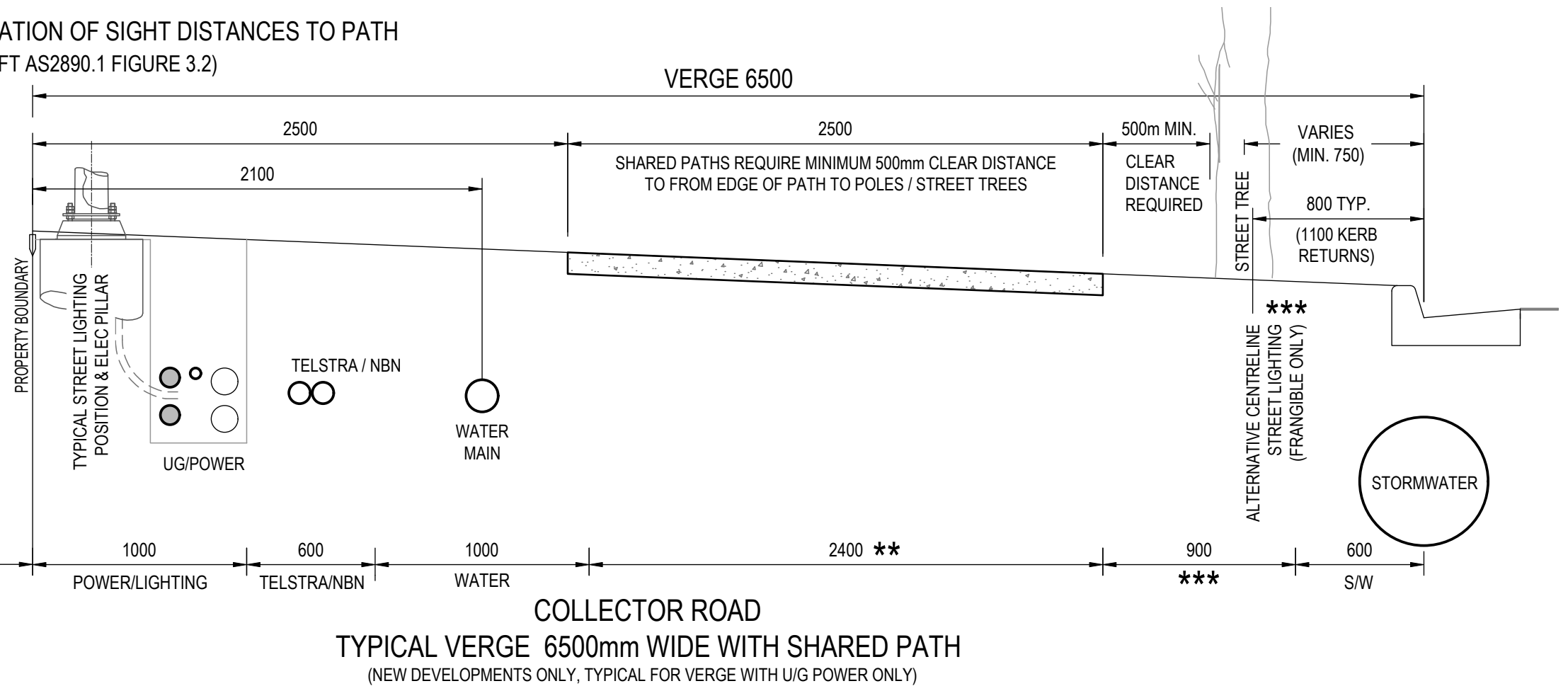
1. PLANS SHOWS TYPICAL SERVICE CORRIDORS & SHARED PEDESTRIAN / CYCLEWAY PATH FOR COLLECTOR ROADS IN NEW DEVELOPMENTS, WITH UNDERGROUND POWER AND STREET TREE LANDSCAPING & SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
2. PATH USER SPEED 15km/hr INTERRUPTED CYCLING FLOW - FORMAL SHARED PATH ON URBAN STREETS WITH HIGH LEVEL OF ROADSIDE DEVELOPMENT AND FREQUENT INTERSECTING STREETS IN ACCORDANCE WITH DRAFT AS2890.1, TABLE 3.4.
3. IN ACCORDANCE WITH REFERENCE DRAFT AS2890.1, FIGURE 3.2 & TABLE 3.4, MINIMUM SIGHT DISTANCE ALONG FRONTAGE PATH FROM ACCESS DRIVEWAY DIMENSION ARE (X)= 5000 & (Y)=12000 AS SHOWN IN FIGURE. 3.2.
 ANY OBJECT PERMANENTLY LOCATED WITHIN THE VISIBILITY TRIANGLE SHOWN IN FIG 3.2 SHALL BE:
 (a) LESS THAN 800mm HIGH OR ABOVE 2m HIGH; OR
 (b) VISUALLY PERMEABLE SO AN OBJECT, 800mm IN HEIGHT AND 150mm IN DIAMETER, CAN BE IDENTIFIED FROM A DRIVERS VIEW.
 (c) WHERE THE ABOVE REQUIREMENTS OF (a) & (b) CANNOT BE MET, SUITABLE MITIGATION MEASURES SHALL BE USED AND MAY INCLUDE:
 - DEVICES TO REDUCE VEHICLE SPEED ON THE DRIVEWAY
 - MEASURES TO REDUCE THE SPEED OF THE PATH USER OR MEASURES TO ALERT USERS OF APPROACHING VEHICLES.
4. IN ACCORDANCE WITH REFERENCE DRAFT AS2890.1, CI.3.2.5;
 (a) DRIVERS LEAVING TYPICALLY HAVE AN EYE HEIGHT OF 1.1m.
 (b) THE ADJACENT PATH USER TYPICAL HEIGHT IS 0.8m FOR A SMALL CHILD.
5. FOR PATH SPEEDS GREATER THAN 15km/h, DETAILED DESIGN AND CITY APPROVAL IS REQUIRED FOR DETERMINING THE APPROPRIATE VERGE WIDTH AND PATH POSITION WITH REGARDING APPROPRIATE SIGHT DISTANCES IN ACCORDANCE WITH DRAFT AS2890.1, TABLE 3.4.
6. FOR ADDITIONAL GENERAL NOTES REFER TO PLAN R-210-04.

FIGURE 3.2 - ILLUSTRATION OF SIGHT DISTANCES TO PATH
(REFERENCE DRAFT AS2890.1 FIGURE 3.2)

- * DENOTES CORRIDOR WIDTH FOR MAINS UP TO 300Ø, WHERE WATER MAIN REQUIRES THRUST ANCHORAGE IN ACCORDANCE WITH STD. DRG. T-550-11-16, THE ANCHOR BLOCK WALL CAN EXTEND INTO THE ADJACENT CORRIDOR IF NOT CONSIDERED REQUIRED FOR FUTURE USE.
- ** DENOTES CORRIDOR FOR MAJOR SEWER RISING MAINS WHERE REQUIRED
- *** DENOTES CORRIDOR FOR LANDSCAPING AND ALTERNATIVE FRANGIBLE LIGHT POLE LOCATION IN ACCORDANCE WITH AS1158.1.2005 SUBJECT TO CITY APPROVAL



GRAVITY SEWER 1500



COLLECTOR ROAD
TYPICAL VERGE 6500mm WIDE WITH SHARED PATH
(NEW DEVELOPMENTS ONLY, TYPICAL FOR VERGE WITH U/G POWER ONLY)

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

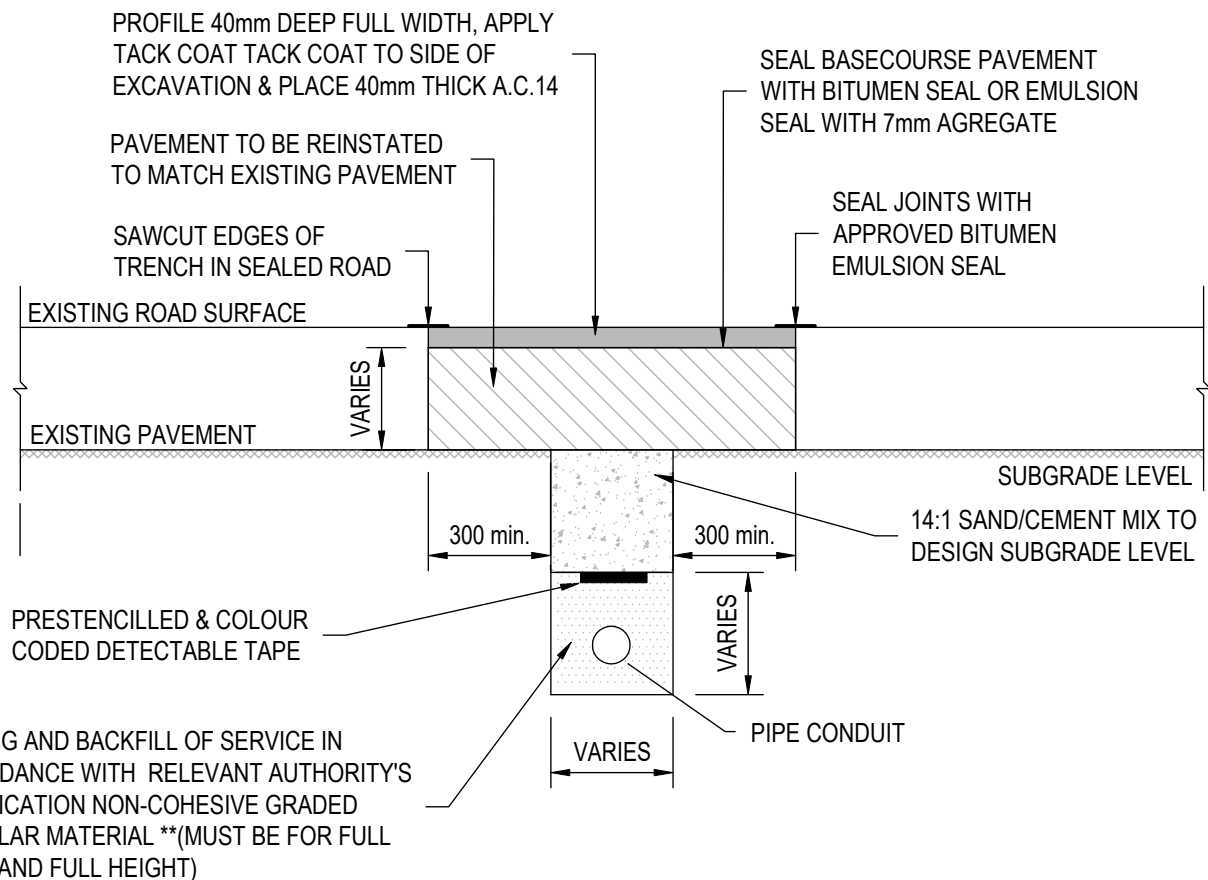


Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

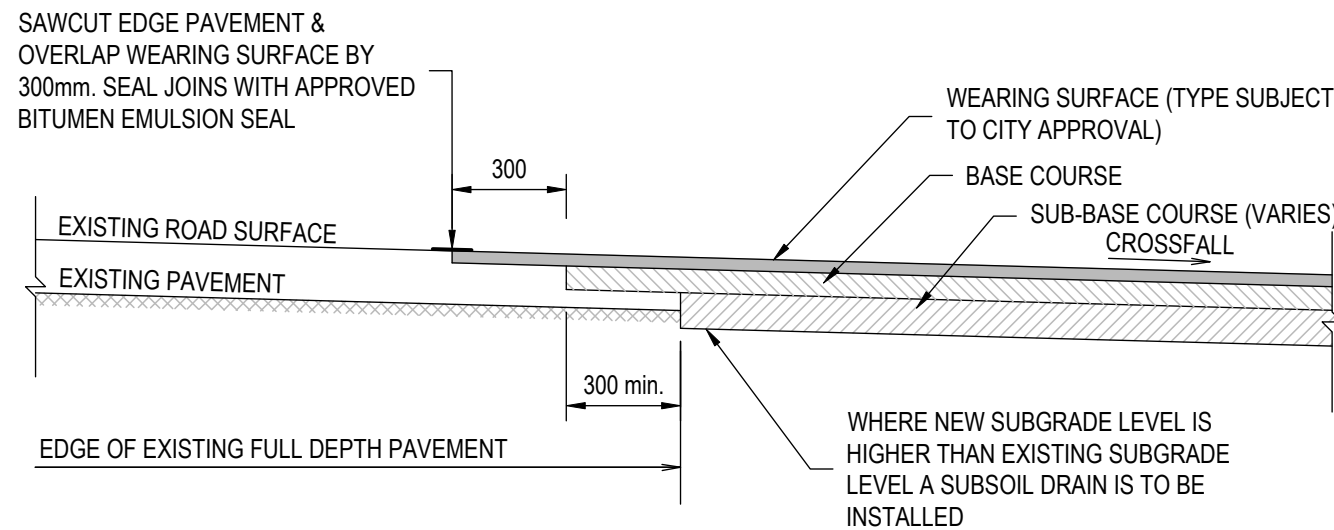
STANDARD DRAWINGS

TYPICAL SERVICE ALLOCATIONS
COLLECTOR ROAD WITH SHARED PATH

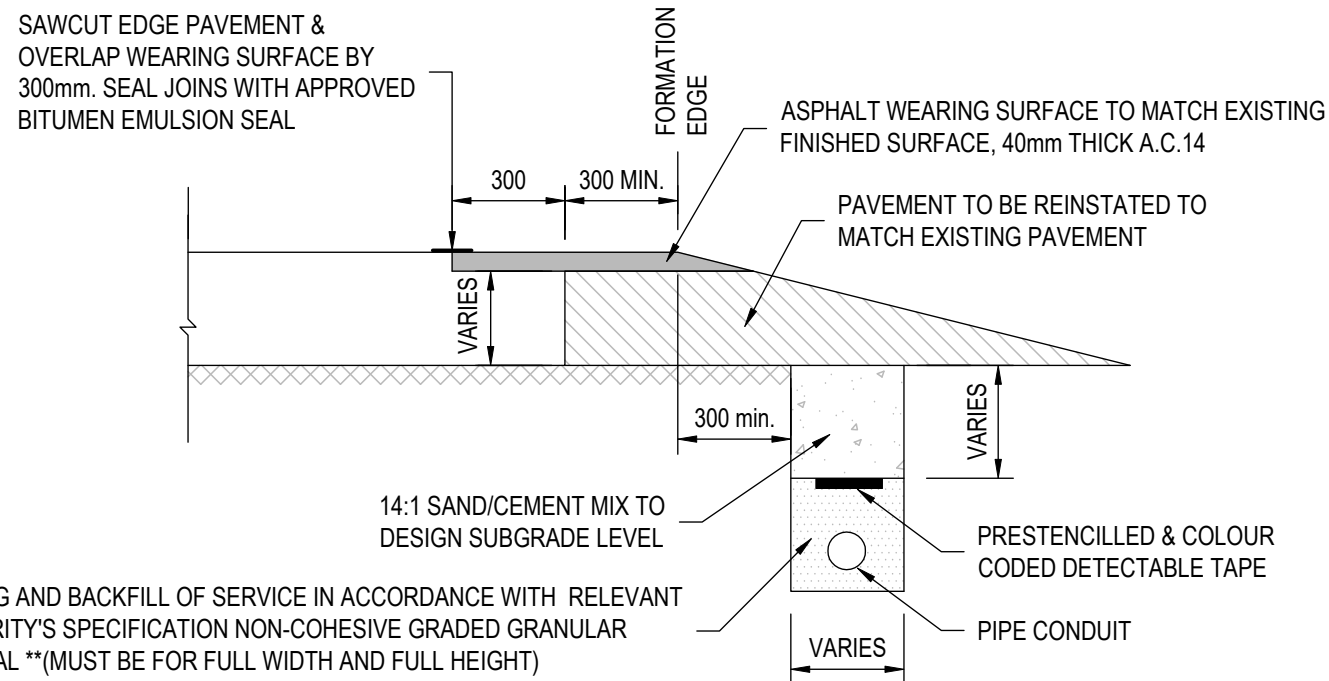
Council Plan No.	
R-210-05	
Orig. Size	Revision
A3	1



TRENCHING THROUGH EXISTING PAVEMENT



PAVEMENT WIDENING



PARALLEL LONGITUDINAL SECTION

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

EXISTING PAVEMENT TRENCHING & WIDENING
TYPICAL SECTIONS

Council Plan No.

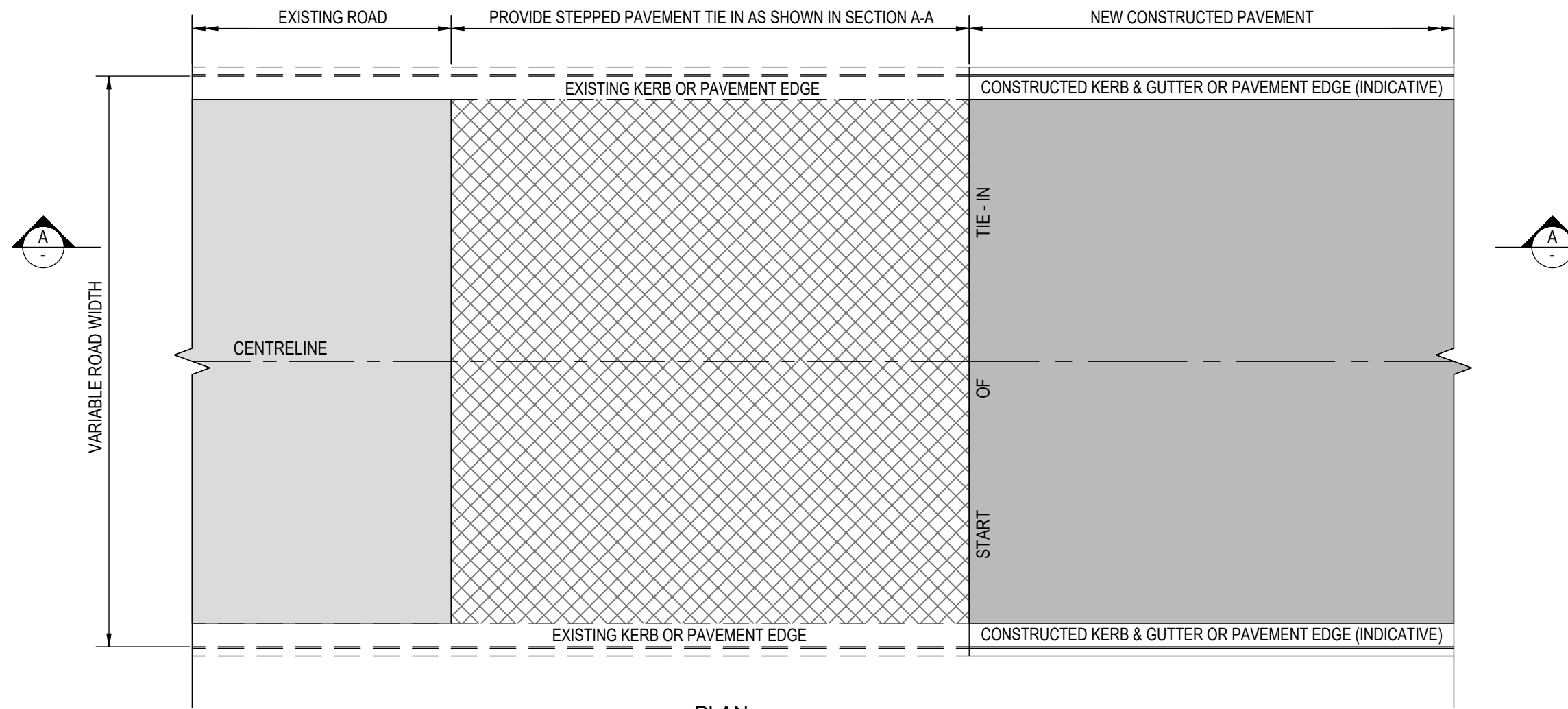
R-210-06

Orig. Size

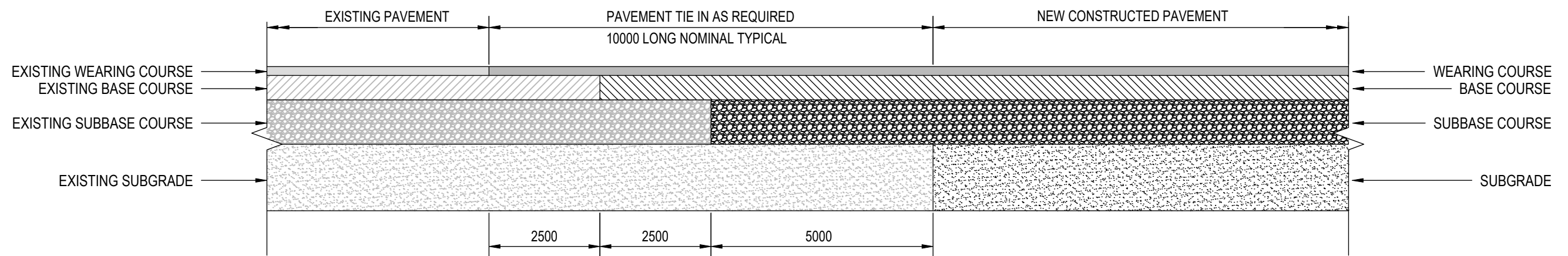
A3

Revision

1



PLAN
SCALE 1:100



SECTION A
SCALE H 1:100
V 1:20

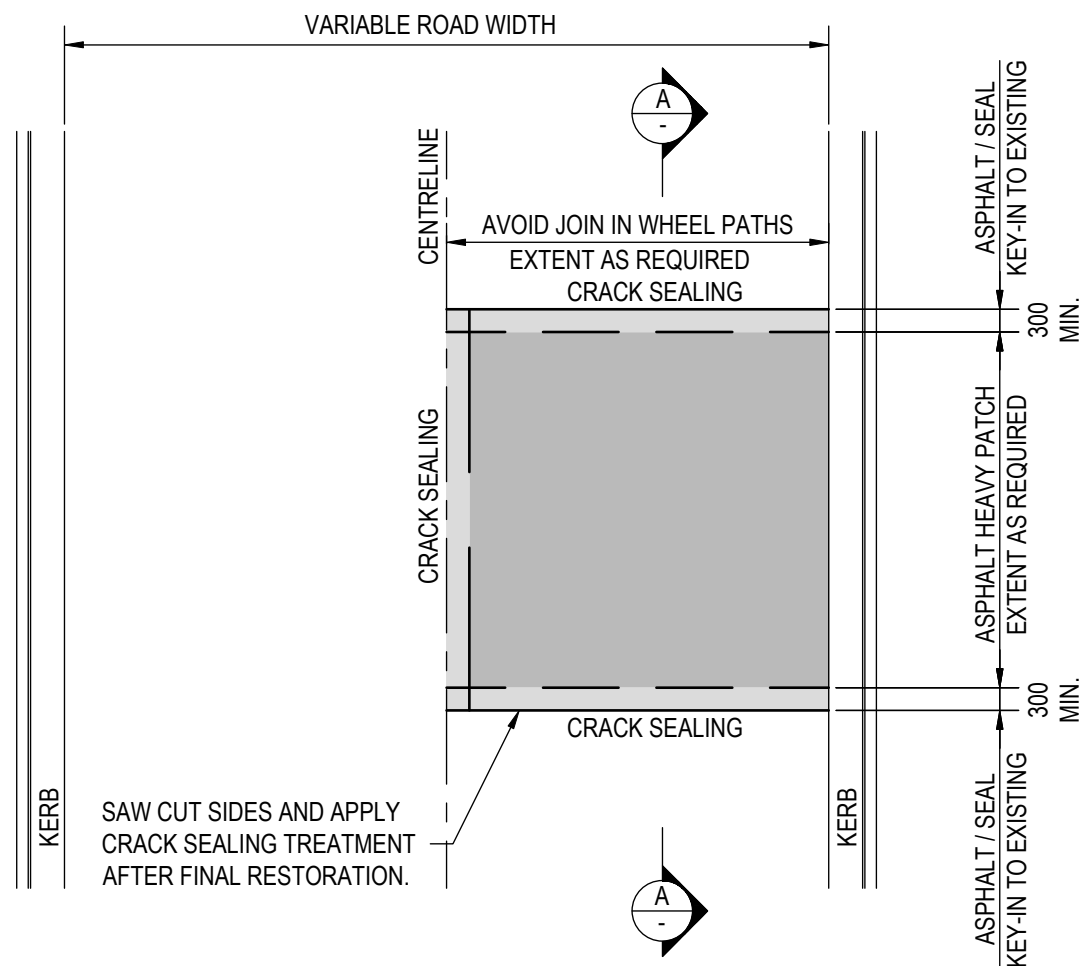
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



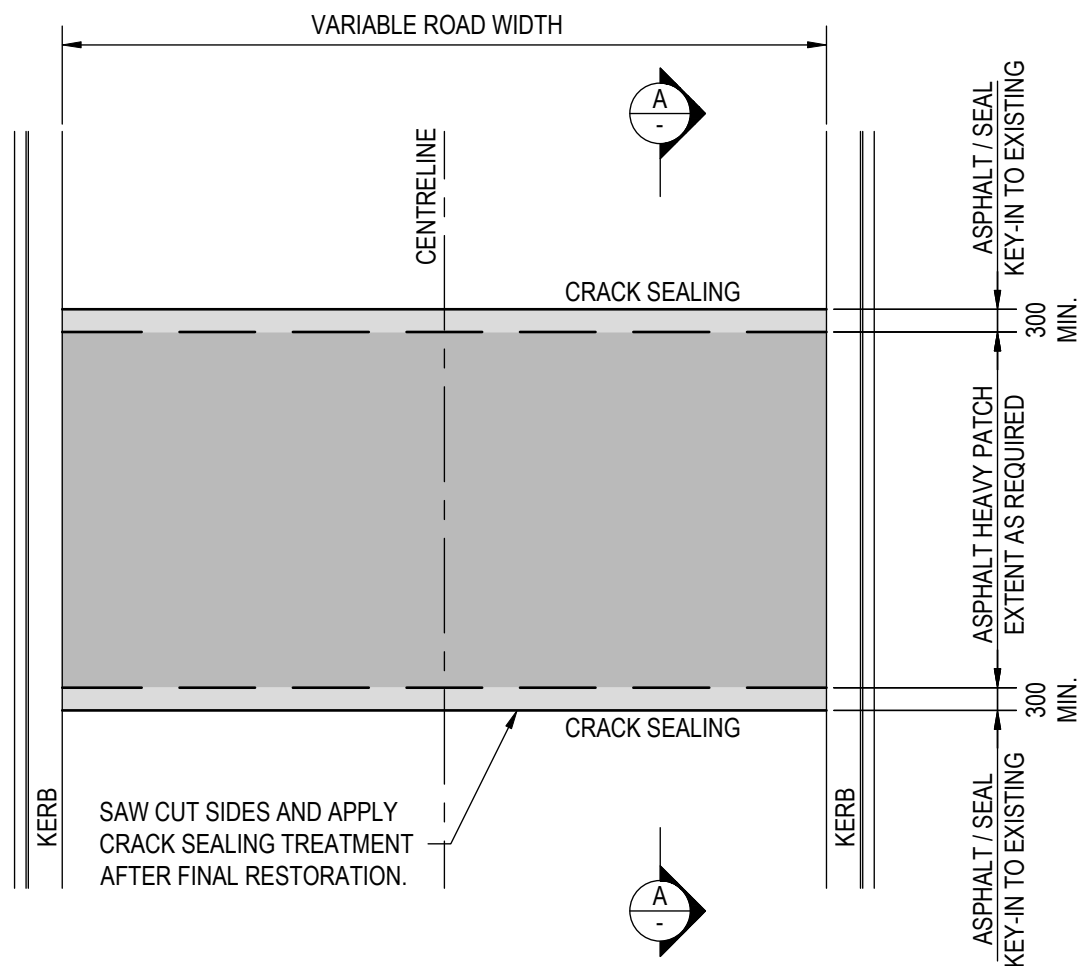
Locked Bag 155
Coffs Harbour, NSW, 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS	
EXISTING PAVEMENT TIE IN	
Orig. Size	Revision
A3	1

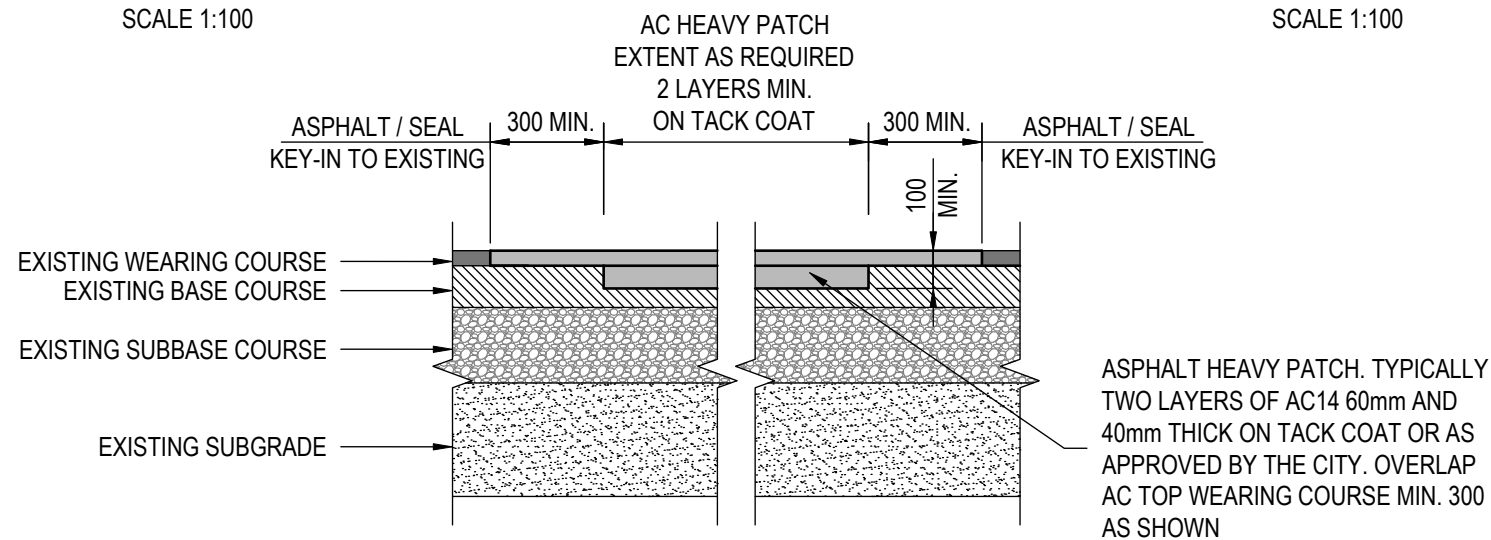
Council Plan No.	R-210-07
------------------	----------



TYPICAL HALF ROAD HEAVY PATCH
SCALE 1:100



TYPICAL FULL ROAD HEAVY PATCH
SCALE 1:100



TYPICAL ASPHALT HEAVY PATCH

SECTION A
SCALE 1:100

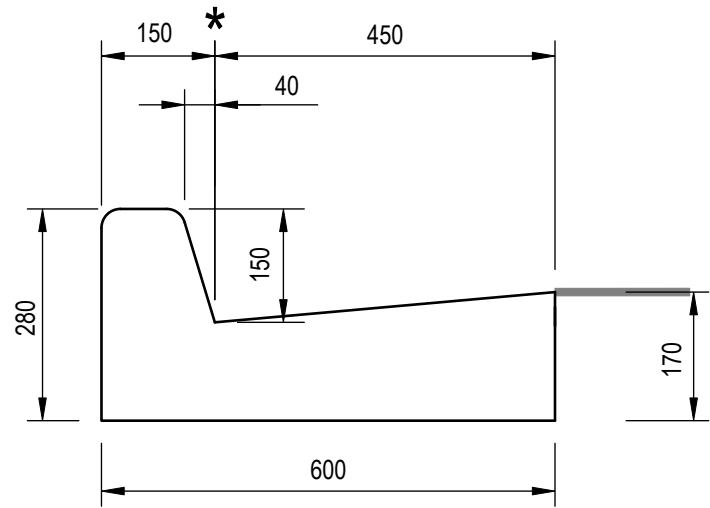
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



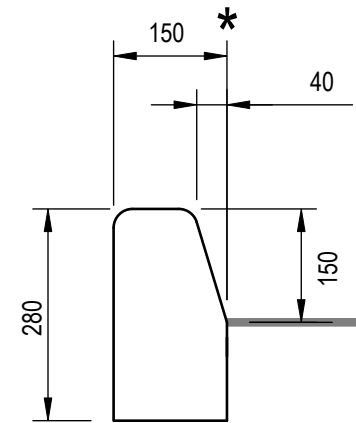
Locked Bag 155
Coffs Harbour, NSW, 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS	
EXISTING PAVEMENT HEAVY ASPHALT PATCH TYPICAL SECTIONS	

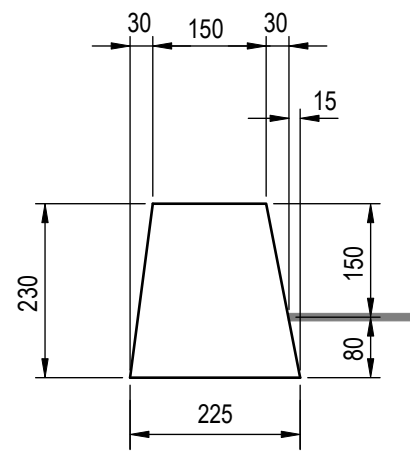
Council Plan No.	
R-210-08	
Orig. Size	Revision
A3	1



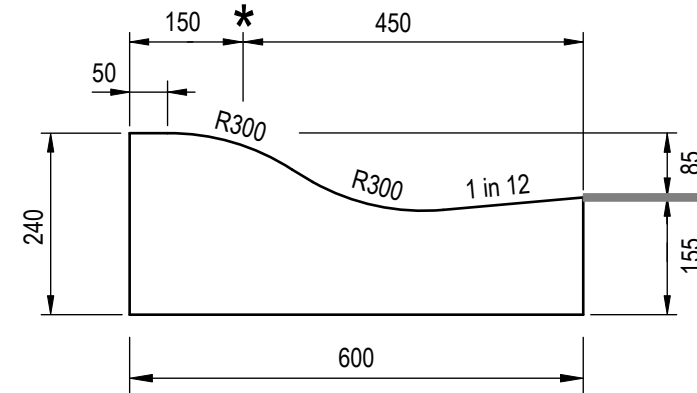
MODIFIED 'SA' TYPE
KERB & GUTTER



'SA' TYPE
KERB ONLY

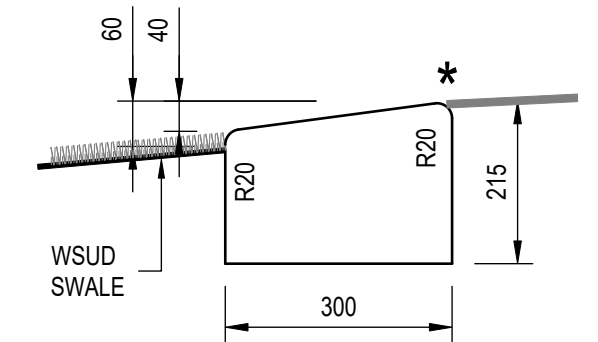


'SM' TYPE KERB

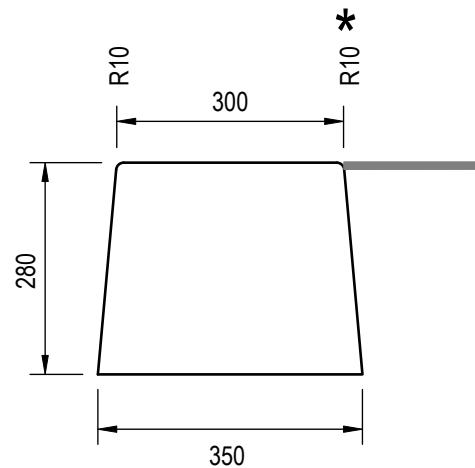


MODIFIED 'RT' KERB

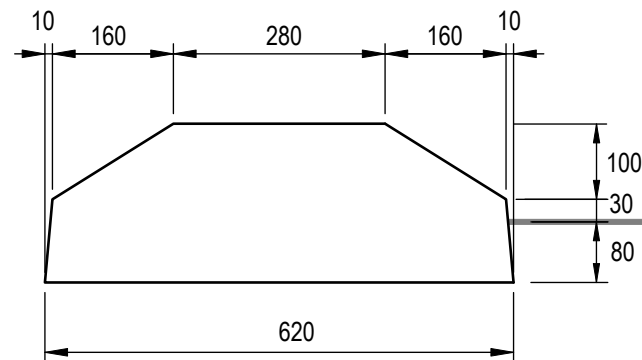
USED FOR WATER SENSITIVE URBAN DESIGN
(WSUD ONLY)



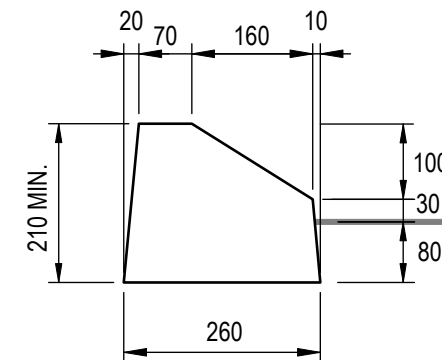
'M6' TYPE KERB (WSUD)



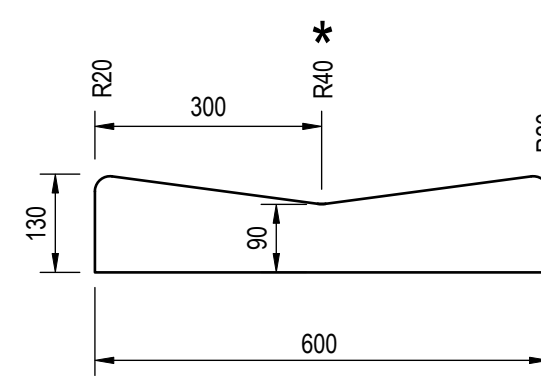
FLUSH KERB



MEDIAN



'SF' TYPE KERB



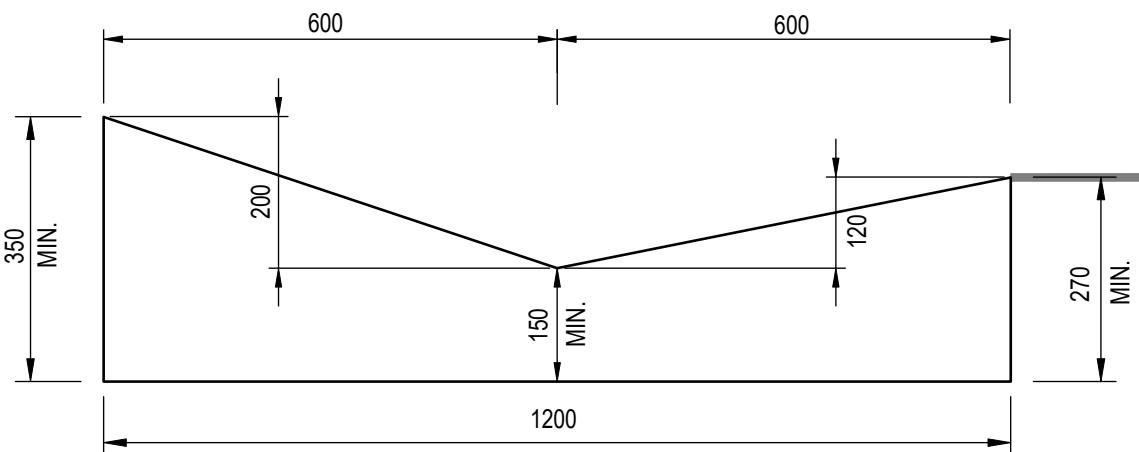
600mm DISH DRAIN

NOTES

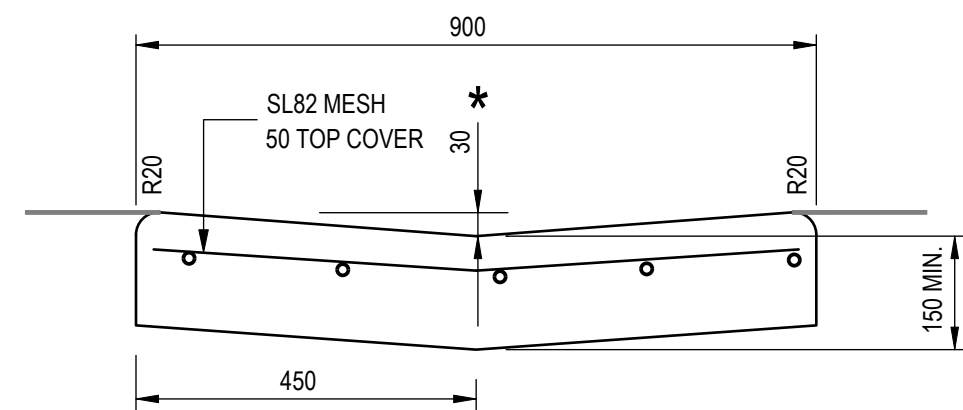
1. ALL CONCRETE TO BE GRADE N32 MINIMUM IN ACCORDANCE WITH AS1379 AND AS3600.
2. ALL MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH AS 2876
3. REINFORCEMENT BARS TO AS 1302, MESH FABRIC TO AS 1304
4. PROVIDE TOOLED CONTRACTION JOINTS BY FORMING GROOVES, 40mm DEEP BY 5mm WIDE AT REGULAR INTERVALS, NOMINALLY 3m INTERVALS BUT NOT EXCEEDING 4m.
5. PROVIDE EXPANSION JOINTS WHERE THE KERB JOINS EXISTING STRUCTURES BY INSTALLING 10mm THICK COMPRESSIBLE PACKING FOR FULL DEPTH & WIDTH.
6. PROVIDE 15mm WIDE BITUMINOUS FIBREBOARD EXPANSION JOINTS AT 15m CENTRES.

KEY

* NOMINAL KERB LINE FOR SETOUT



TYPE SK KERB
(FOR USE IN RURAL ROAD CUTTING)



900mm DISH DRAIN

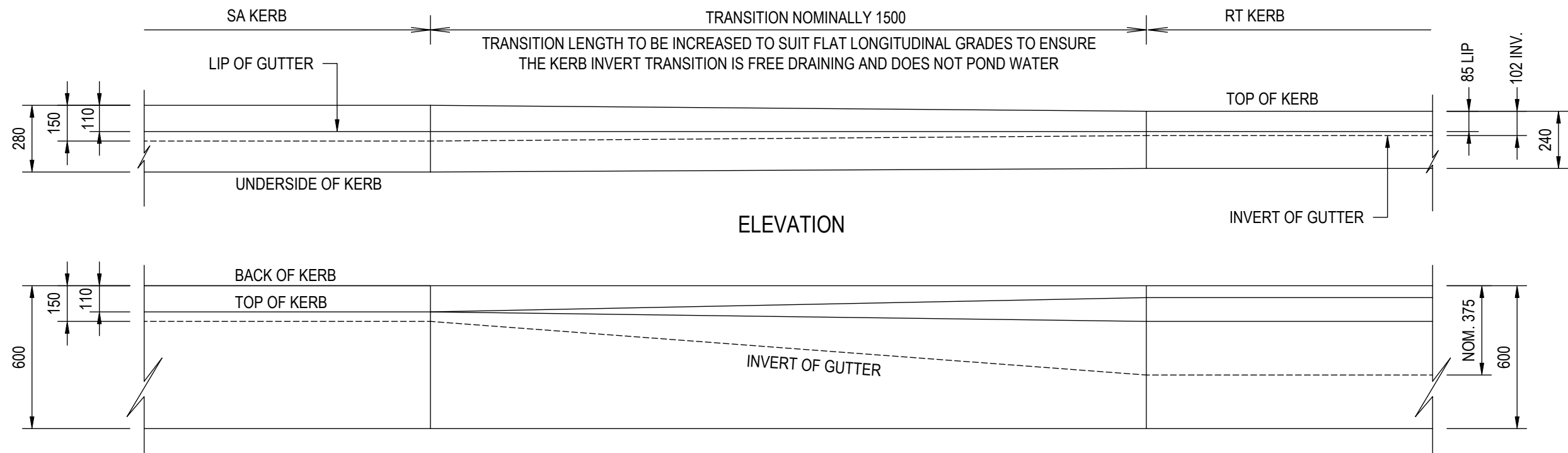
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

TYPICAL KERB TYPES

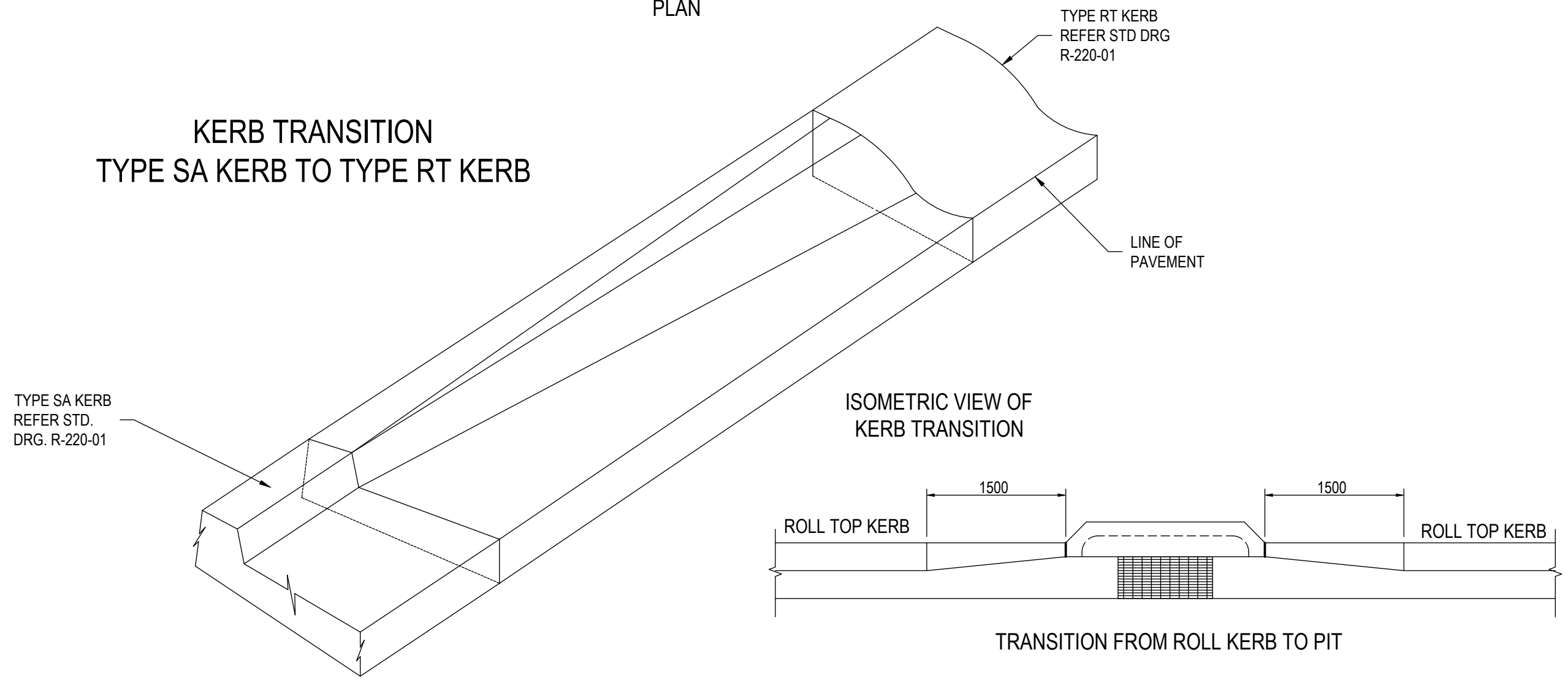
Council Plan No.	
R-220-01	
Orig. Size	Revision
A3	1



ELEVATION

PLAN

**KERB TRANSITION
TYPE SA KERB TO TYPE RT KERB**



ISOMETRIC VIEW OF
KERB TRANSITION

TRANSITION FROM ROLL KERB TO PIT

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

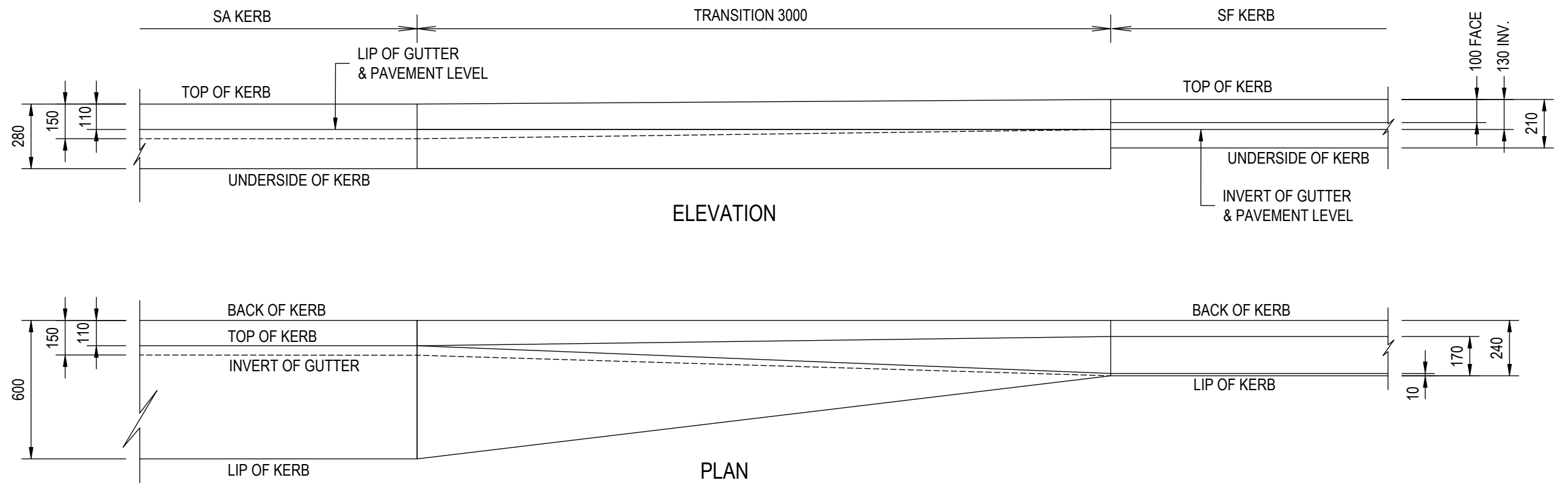


Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

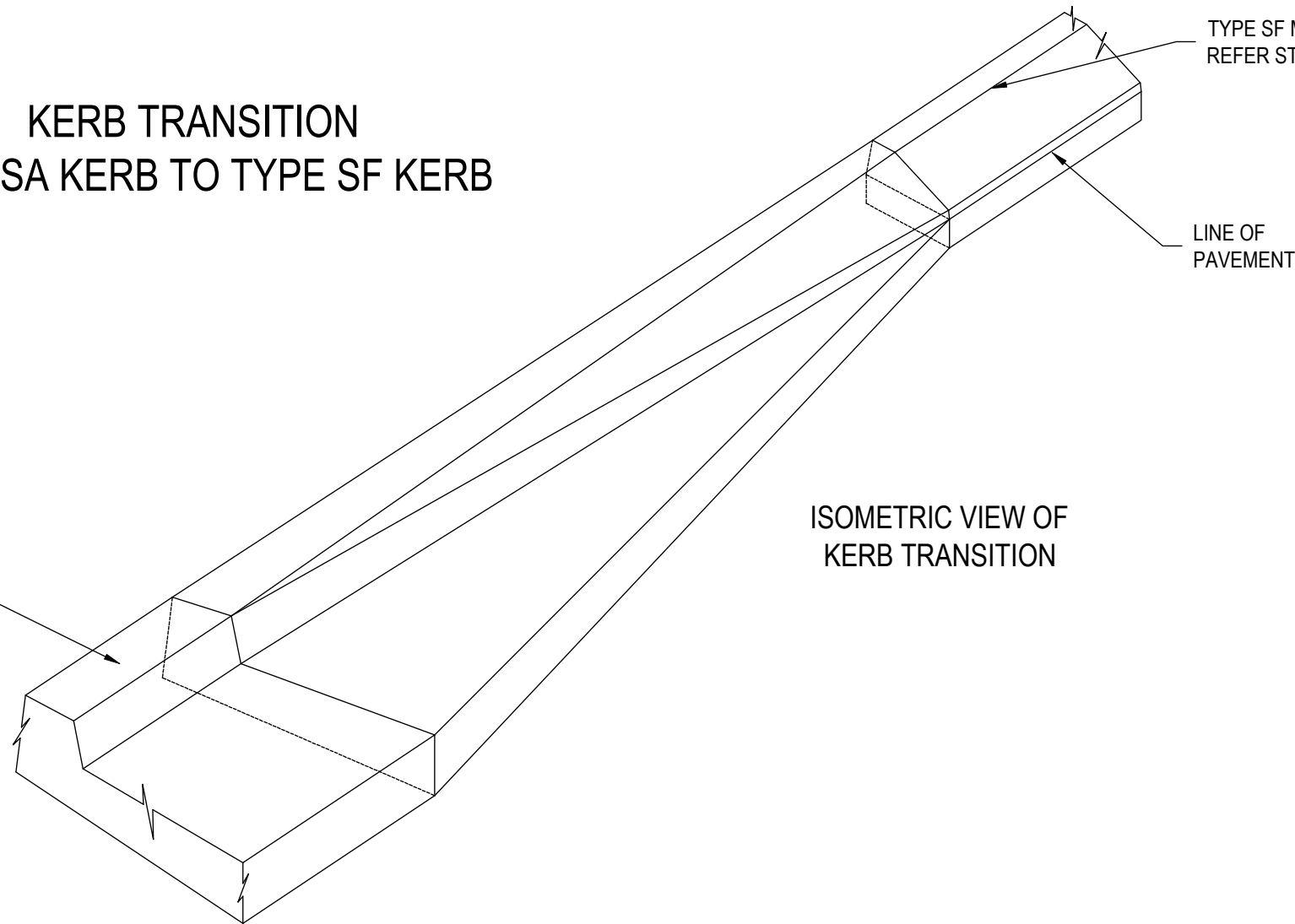
**KERB TRANSITION
TYPE SA KERB TO TYPE RT KERB**

Council Plan No.	
R-220-02	
Orig. Size	Revision
A3	1



**KERB TRANSITION
TYPE SA KERB TO TYPE SF KERB**

SA KERB
REFER STD.
DRG. R-220-01



ISOMETRIC VIEW OF
KERB TRANSITION

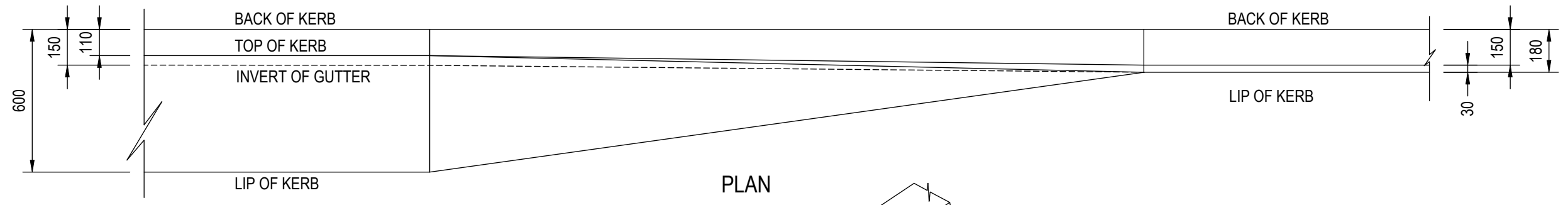
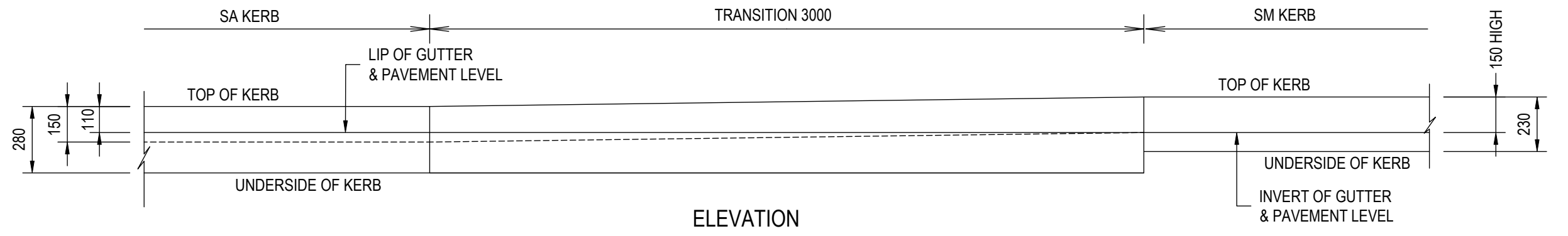
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



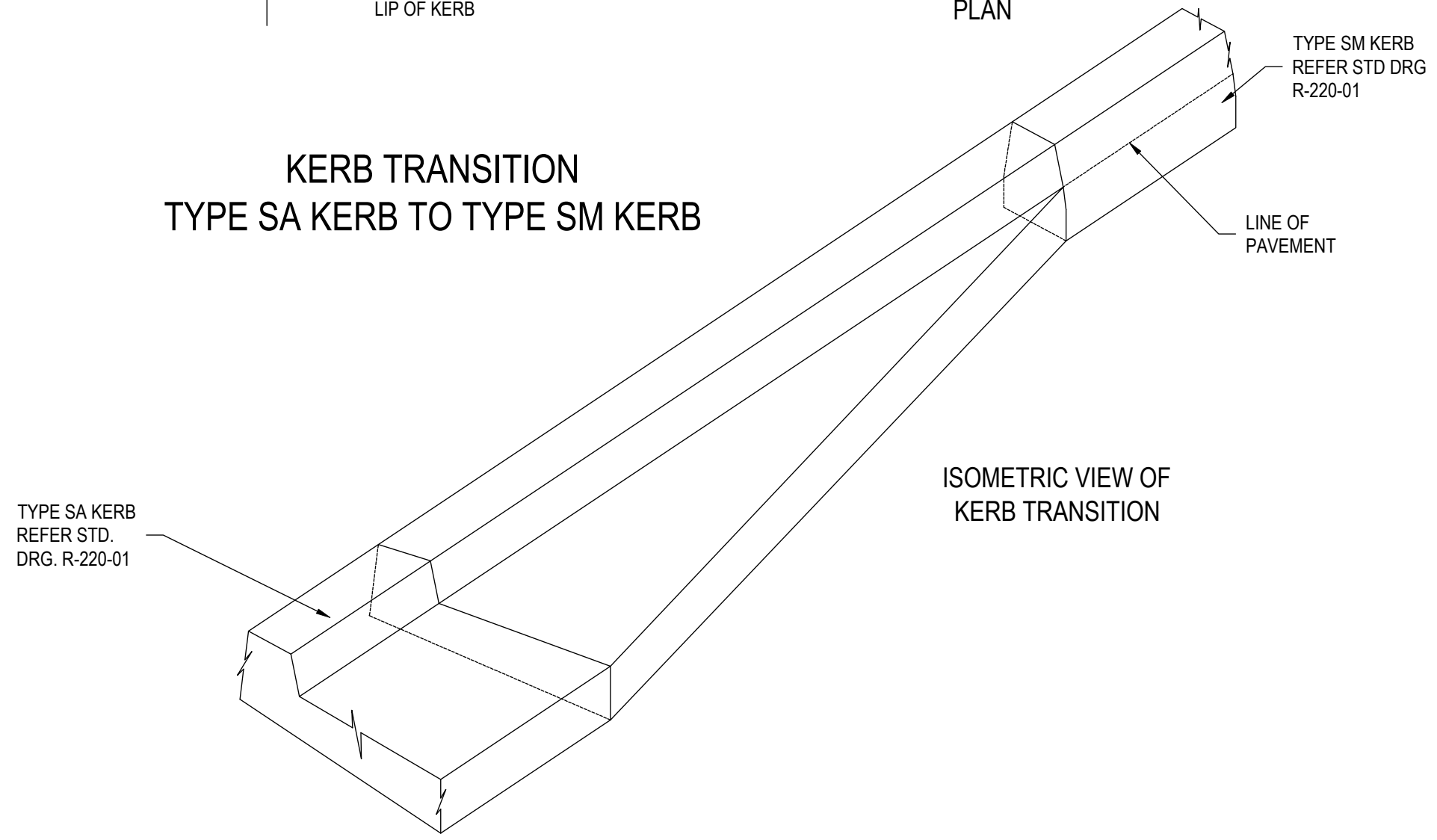
Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS
KERB TRANSITION
TYPE SA KERB TO TYPE SF KERB

Council Plan No.
R-220-03
Orig. Size
A3
Revision
1



**KERB TRANSITION
TYPE SA KERB TO TYPE SM KERB**



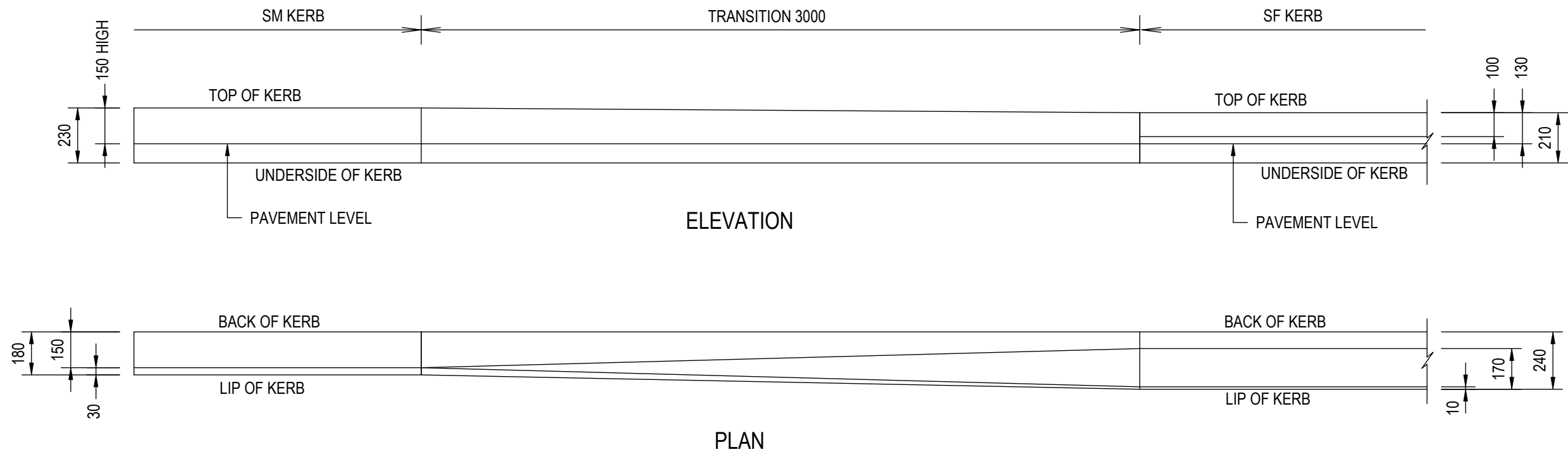
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

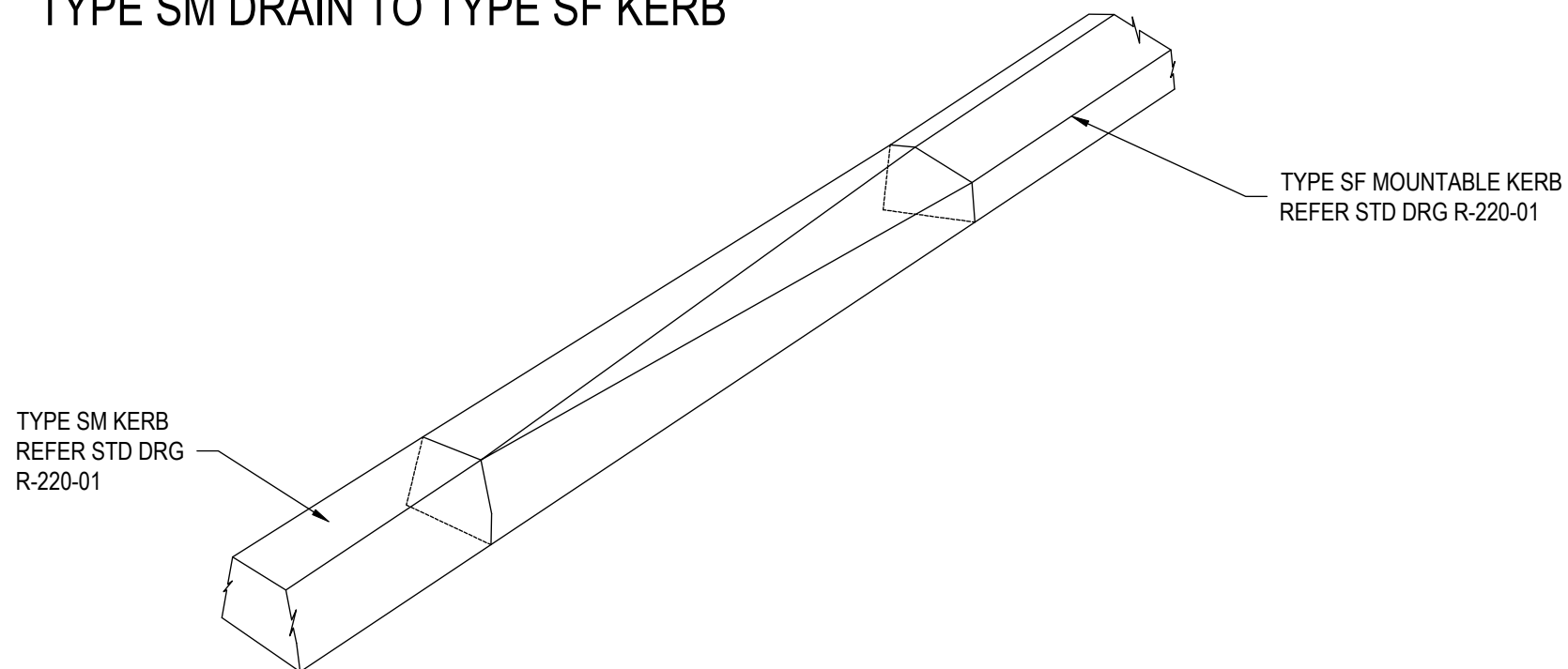
STANDARD DRAWINGS

**KERB TRANSITION
TYPE SA KERB TO TYPE SM KERB**

Council Plan No.	
R-220-04	
Orig. Size	Revision
A3	1



**KERB TRANSITION
TYPE SM DRAIN TO TYPE SF KERB**



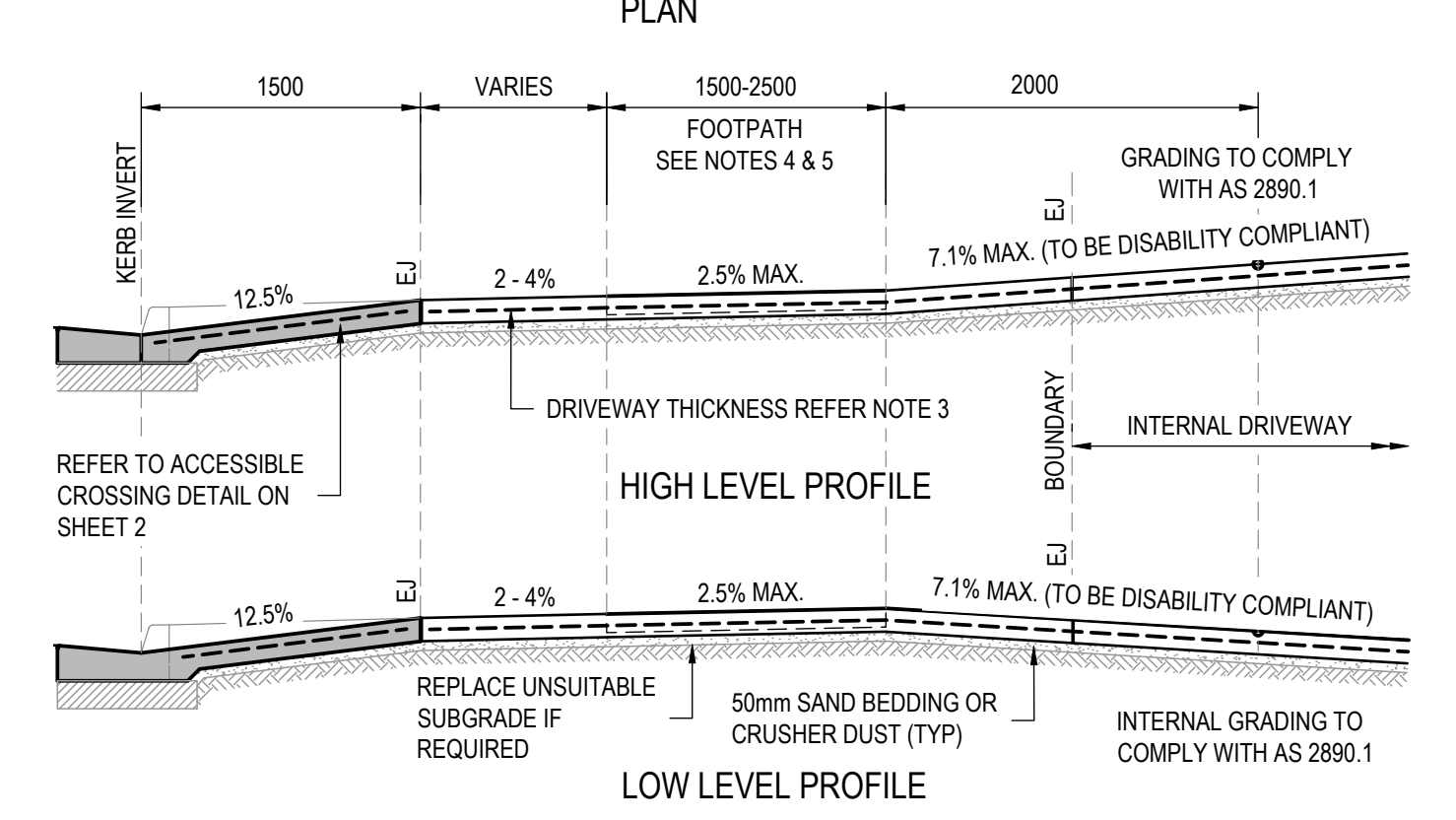
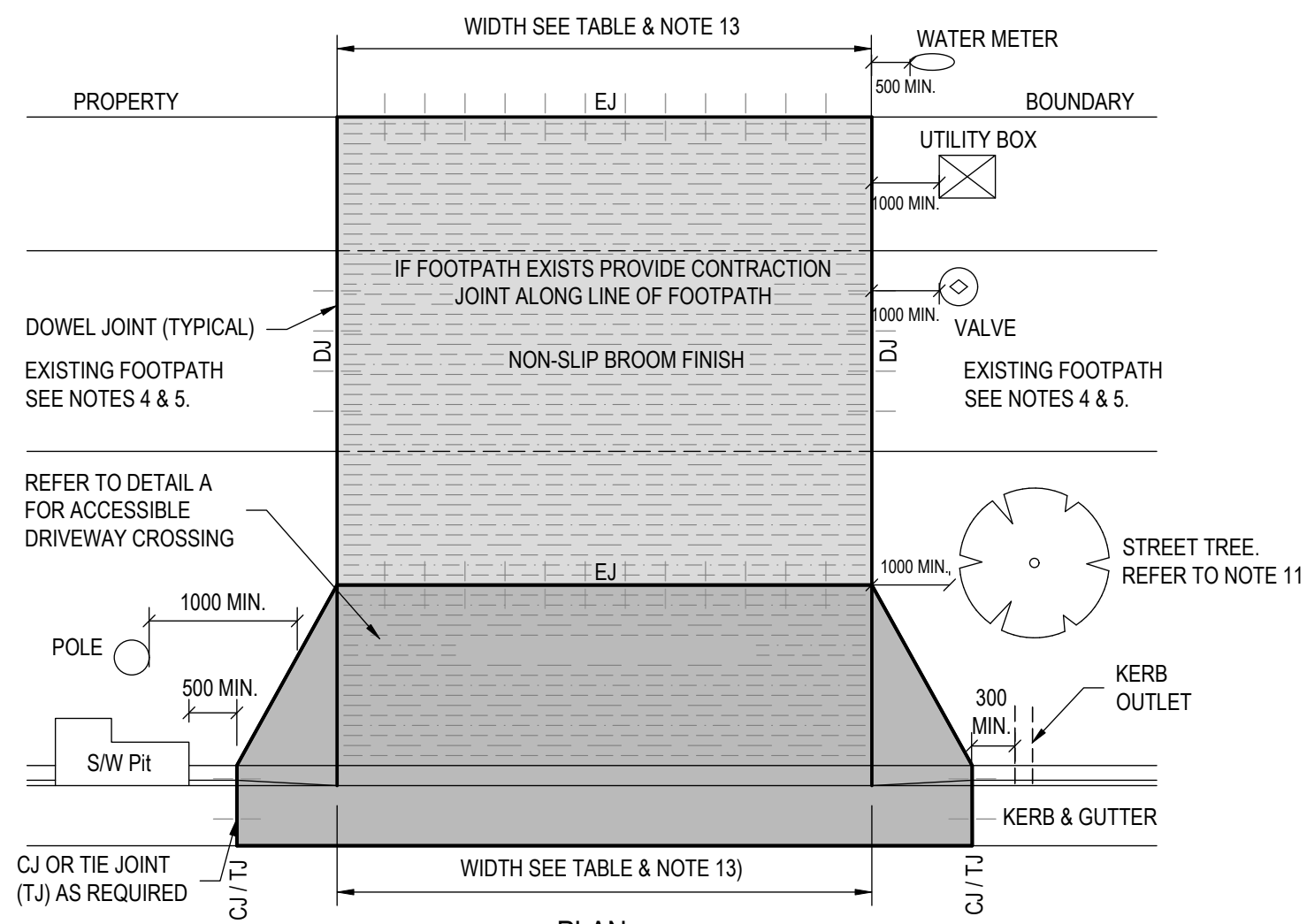
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

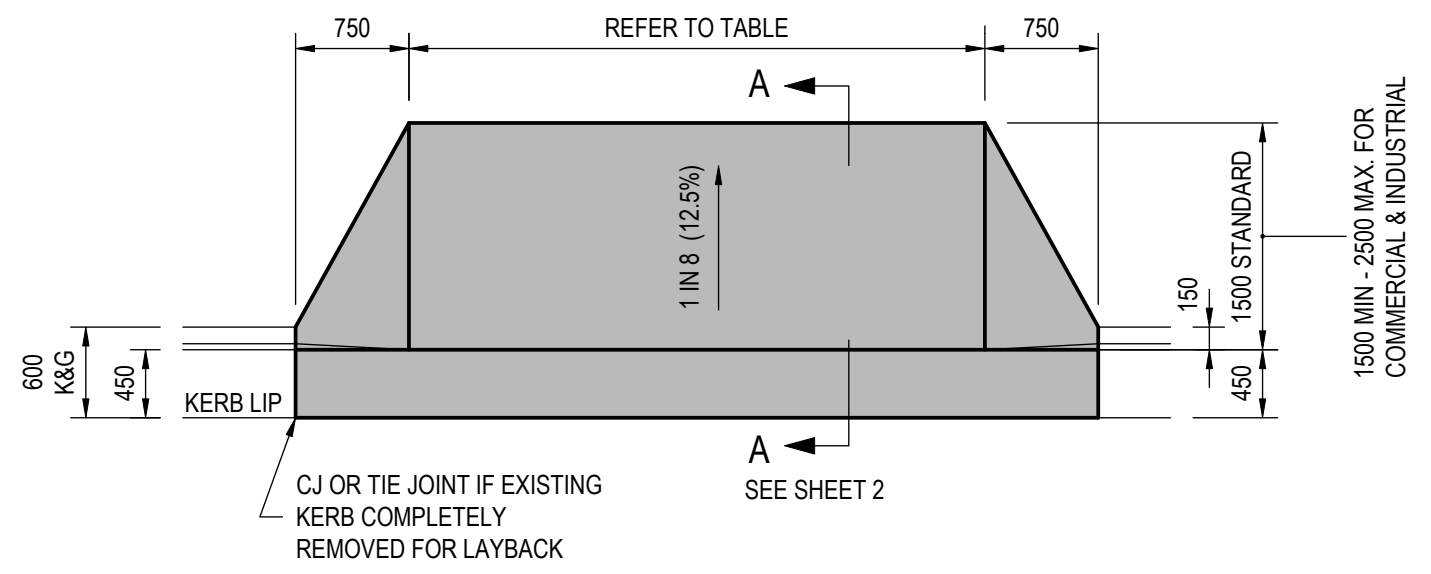
STANDARD DRAWINGS
KERB TRANSITION
TYPE SM KERB TO TYPE SF KERB

Council Plan No.	
R-220-05	
Orig. Size	Revision
A3	1



DRIVEWAY WIDTH	
RESIDENTIAL	3000 MIN. - 6000 MAX.
COMMERCIAL	4000 MIN. - AS APPROVED
INDUSTRIAL	4000 MIN. - AS APPROVED

MAXIMUM WIDTH SUBJECT TO DESIGN
VEHICLE SWEEP PATH ANALYSIS

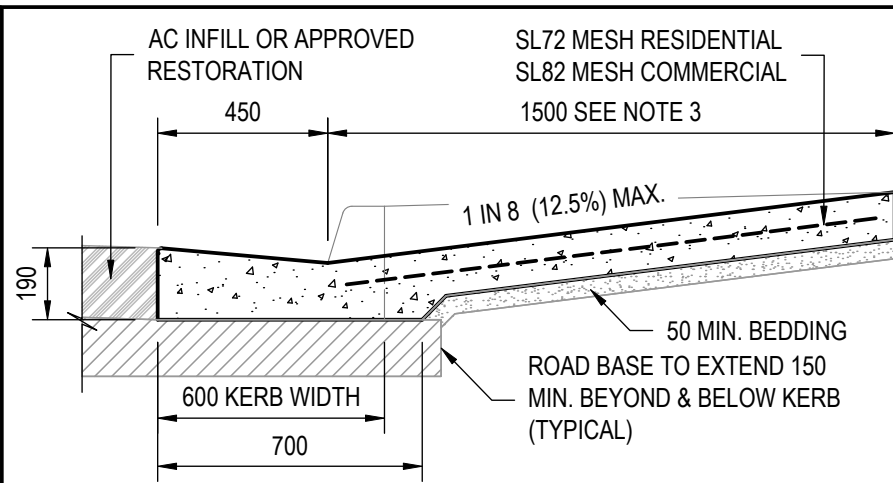


- NOTES:
- THIS DRAWING IS TO BE USED AS A GUIDE ONLY. RESIDENTIAL, COMMERCIAL & INDUSTRIAL VEHICLE ACCESS CROSSING ARE TO BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH AS2890.1, AS3727.1 AND AS3600
 - ALL CONCRETE SHALL BE 32MPa MINIMUM STRENGTH AT 28 DAYS.
 - RESIDENTIAL DRIVEWAY - 125mm THICK WITH SL72 MESH.
COMMERCIAL DRIVEWAY - 150mm THICK WITH SL82 MESH.
INDUSTRIAL DRIVEWAY - 180mm THICK WITH SL81 MESH TOP & BOTTOM.
 - IF EXISTING FOOTPATH ENCOUNTERED, FOOTPATH IS TO BE REMOVED AND REPLACED WITH REINFORCED CONCRETE IN ACCORDANCE WITH CONCRETE THICKNESS IN NOTE 3. PROVIDE EXPANSION JOINT AS PER DETAIL WHERE DRIVEWAY MEETS FOOTPATH.
 - WHERE FOOTPATH IS ENCOUNTERED DRIVEWAY GRADE SHALL NOT EXCEED 2.5%.
 - CROSSING MUST BE PERPENDICULAR TO ROAD UNLESS OTHERWISE APPROVED.
 - LOCATION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT RELEVANT AUTHORITIES IF IN NEED OF ASSISTANCE.
 - EXPOSED BATTERS TO BE TOPSOILED AND TURFED ON A UNIFORM GRADE NO GREATER THAN 4 HORIZ TO 1 VERT (4H:1V).
 - INSPECTION BY THE CITY IS REQUIRED WHEN ALL FORMWORK, SAND BEDDING, REINFORCEMENT MESH AND EXPANSION JOINTS ARE IN PLACE.
 - DRIVEWAYS ON ROADS WITH NO KERB AND GUTTER MUST MATCH BITUMEN LEVEL. BITUMEN TO BE SAW CUT TO PROVIDE NICE EVEN EDGE.
 - STREET TREES ARE NOT TO BE REMOVED UNLESS AUTHORISED BY THE CITY'S DEVELOPMENT ENGINEERING TEAM PRIOR TO CONSTRUCTION.
 - DRIVEWAYS ARE NOT TO IMPACT SERVICE PITS, VALVES OR ACCESS CHAMBERS AND ARE TO HAVE MIN. 1000 CLEARANCE FROM EDGE OF NEW DRIVEWAY. IF PROBLEM OCCURS PLEASE CONTACT THE CITY OR RELEVANT AUTHORITY TO ARRANGE INSPECTION.
 - DRIVEWAY WIDTH AS PER APPROVED STAMPED PLANS. MAXIMUM WIDTH SHOWN IN TABLE IS A GUIDE ONLY. WIDTH WILL BE ASSESSED FOR EACH DRIVEWAY INDIVIDUALLY.

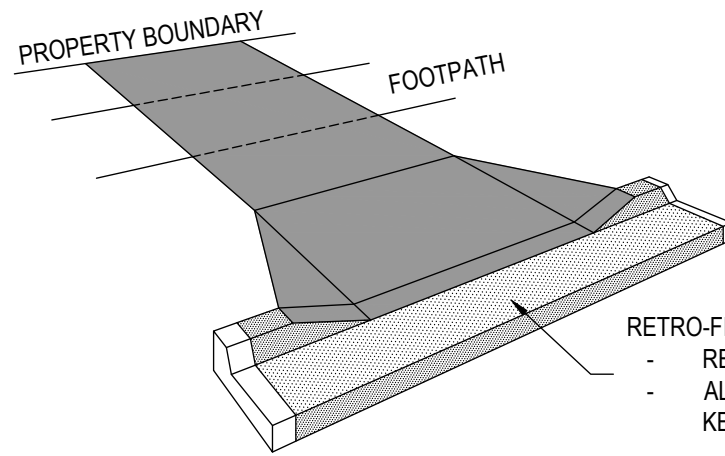
Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

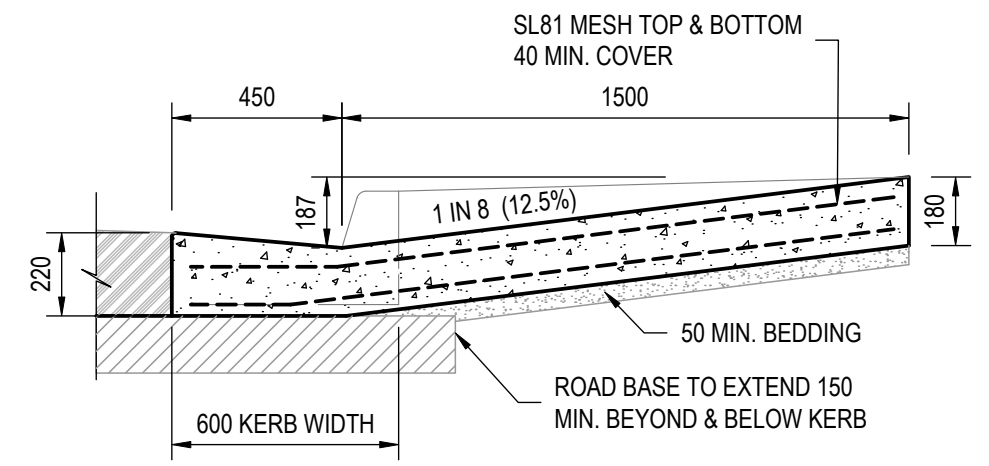
STANDARD DRAWINGS		Council Plan No.	
		R-230-01	
ACCESSIBLE DRIVEWAY LAYBACK VEHICULAR CROSSING		Orig. Size	Revision
SHEET 1 OF 2		A3	1



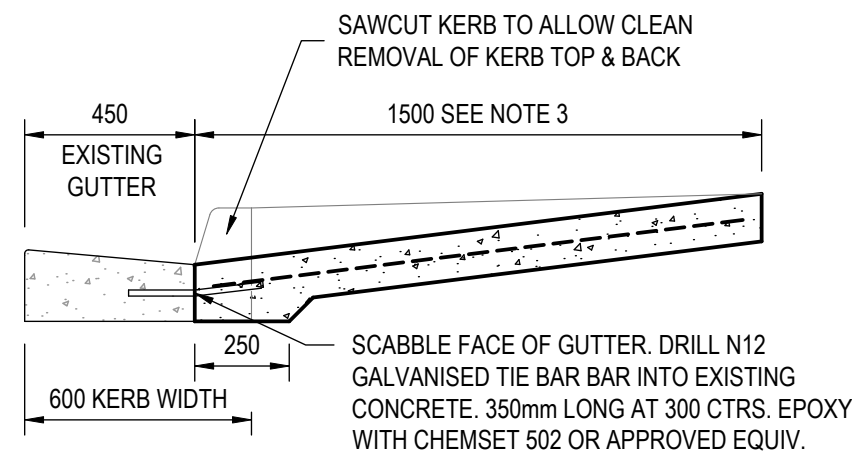
SECTION A-A
ALTERNATIVE ACCESSIBLE CROSSING DETAIL
 (FULL REMOVAL OF TYPE SA KERB SHOWN IN EXISTING ROAD)



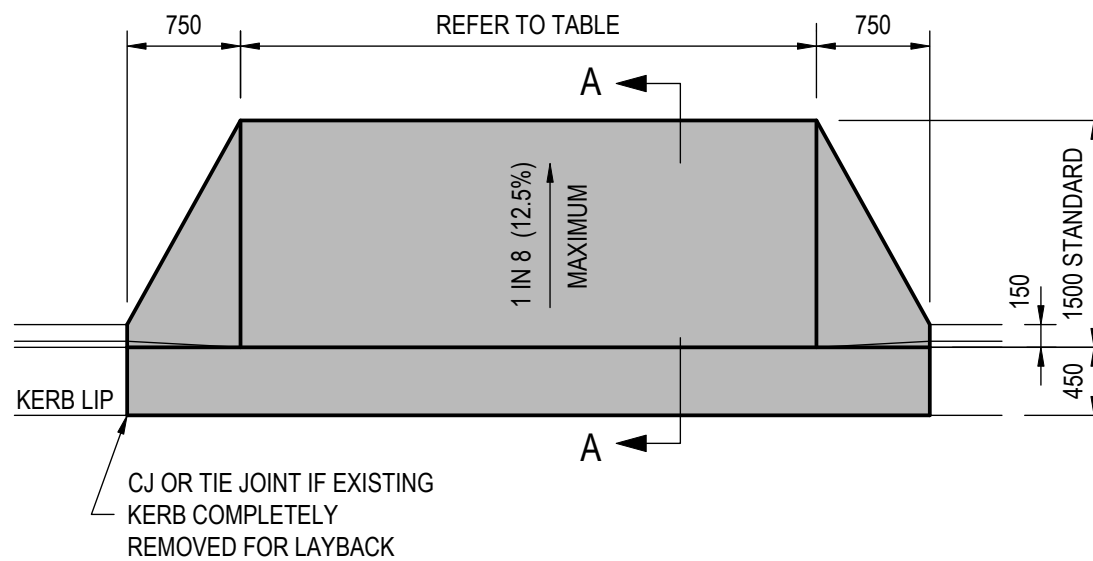
PERSPECTIVE VIEW



SECTION A-A
STANDARD ACCESSIBLE CROSSING DETAIL
 (FULL REMOVAL OF TYPE SA KERB SHOWN IN EXISTING ROAD)



STANDARD RETROFITTED LAYBACK TO EXISTING SA KERB
 (REMOVAL OF KERB GUTTER ONLY)
RESIDENTIAL / COMMERCIAL STANDARD



DETAIL A
STANDARD ACCESSIBLE DRIVEWAY

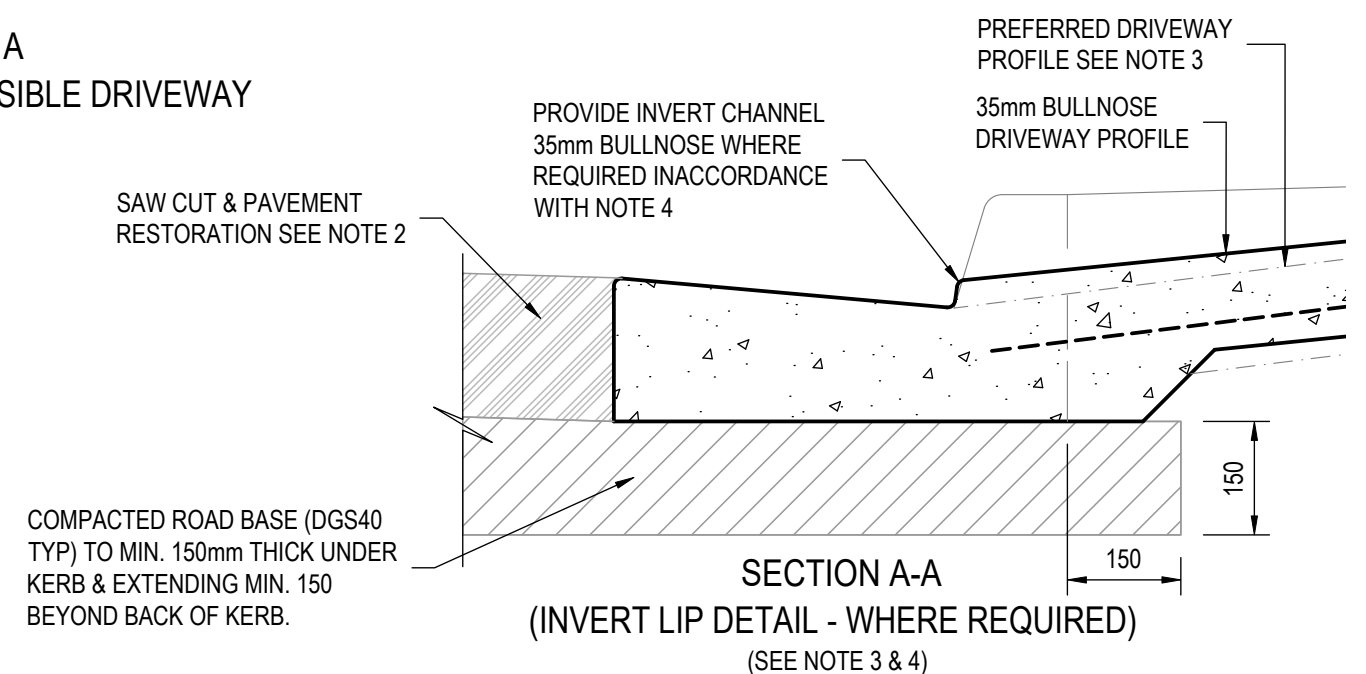
NOTES:

1. REMOVE AND REPLACE POOR SUBGRADE MATERIALS TO THE SUPERINTENDENT'S SATISFACTION
2. WHERE RETRO-FITTING CROSSING OF EXISTING ROADS THE TYPICAL STANDARD SHALL BE SAW CUT & REMOVAL OF EXISTING KERB ONLY WITH TIE BAR AS SHOWN. WHERE THE FULL KERB & GUTTER IS REMOVED THE PAVEMENT IS TO BE SAW CUT TO ALLOW CLEAN REMOVAL OF EXISTING KERB & GUTTER. REINSTATE ROAD PAVEMENT AFTER CONSTRUCTION OF NEW CROSSING.
3. PREFERRED PROFILE EXCLUDES 35mm LIP BULLNOSE FOR COMFORT ALSO ENABLING DISABILITY ACCESS COMPLIANCE FROM ROADWAY TO PROPERTY. FOR DISABILITY ACCESS COMPLIANCE THE RAMP MUST BE MAXIMUM 1500mm LONG AT 12.5% MAX. GRADE. LONGER ACCESS RAMPS MAY BE ACCEPTED AT FLATTER GRADES SUBJECT TO CITY APPROVAL.
4. INVERT CHANNEL LIP ONLY TO BE PROVIDED ON TYPE SA KERB & GUTTER TO PREVENT WATER FLOW INGRESS ON FLAT OR NEGATIVE VERGE CROSSFALLS. LIP BULLNOSE TO BE 35mm
5. A 2.5% POSITIVE CROSSFALL FROM THE TOP OF KERB IS REQUIRED A MINIMUM DISTANCE OF 2500 TO PROTECT PROPERTIES FROM STORMWATER OVERFLOW FROM THE ROADWAY UNLESS NOTED OTHERWISE.
6. PLAN NOT TO BE USED FOR TYPE RT KERB

INDUSTRIAL STANDARD

DRIVEWAY WIDTH	
RESIDENTIAL	3000 MIN. - 6000 MAX.
COMMERCIAL	4000 MIN. - AS APPROVED
INDUSTRIAL	4000 MIN. - AS APPROVED

MAXIMUM WIDTH SUBJECT TO DESIGN
 VEHICLE SWEEP PATH ANALYSIS

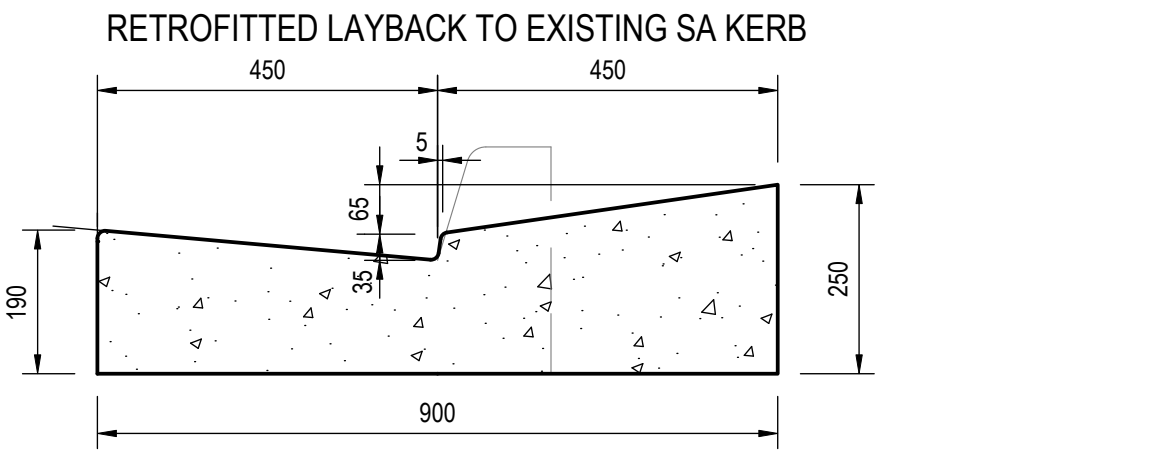
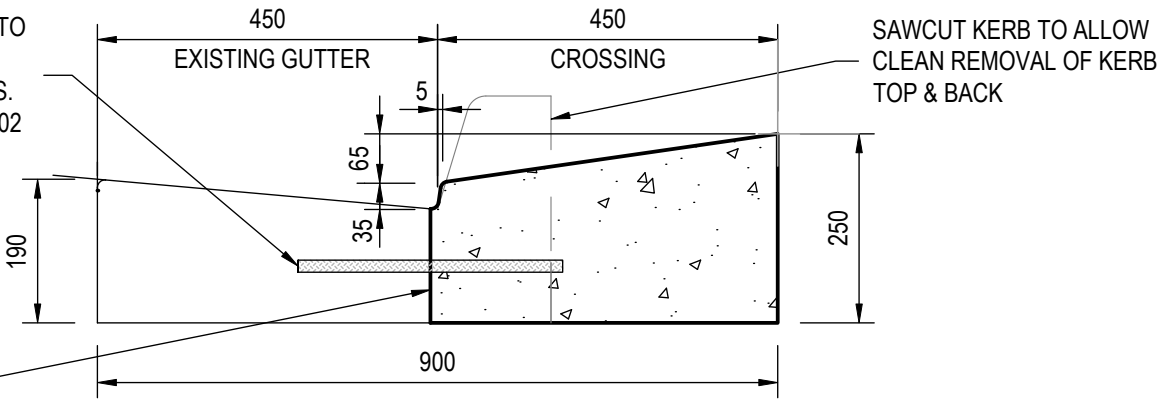
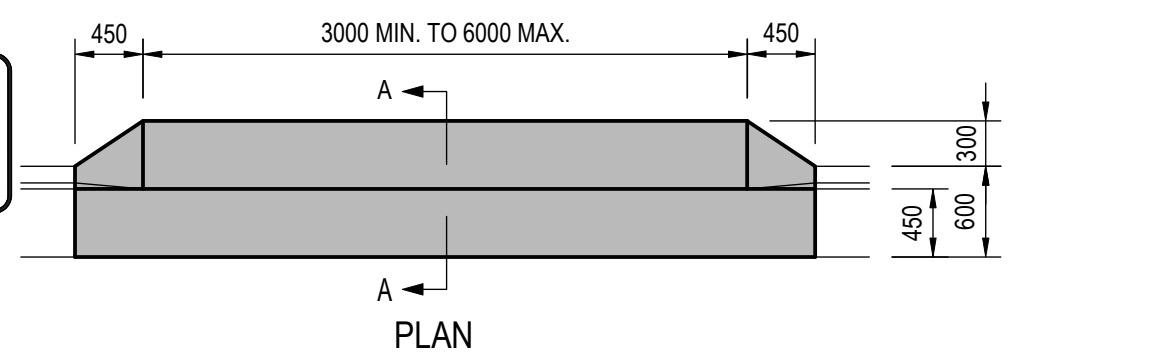
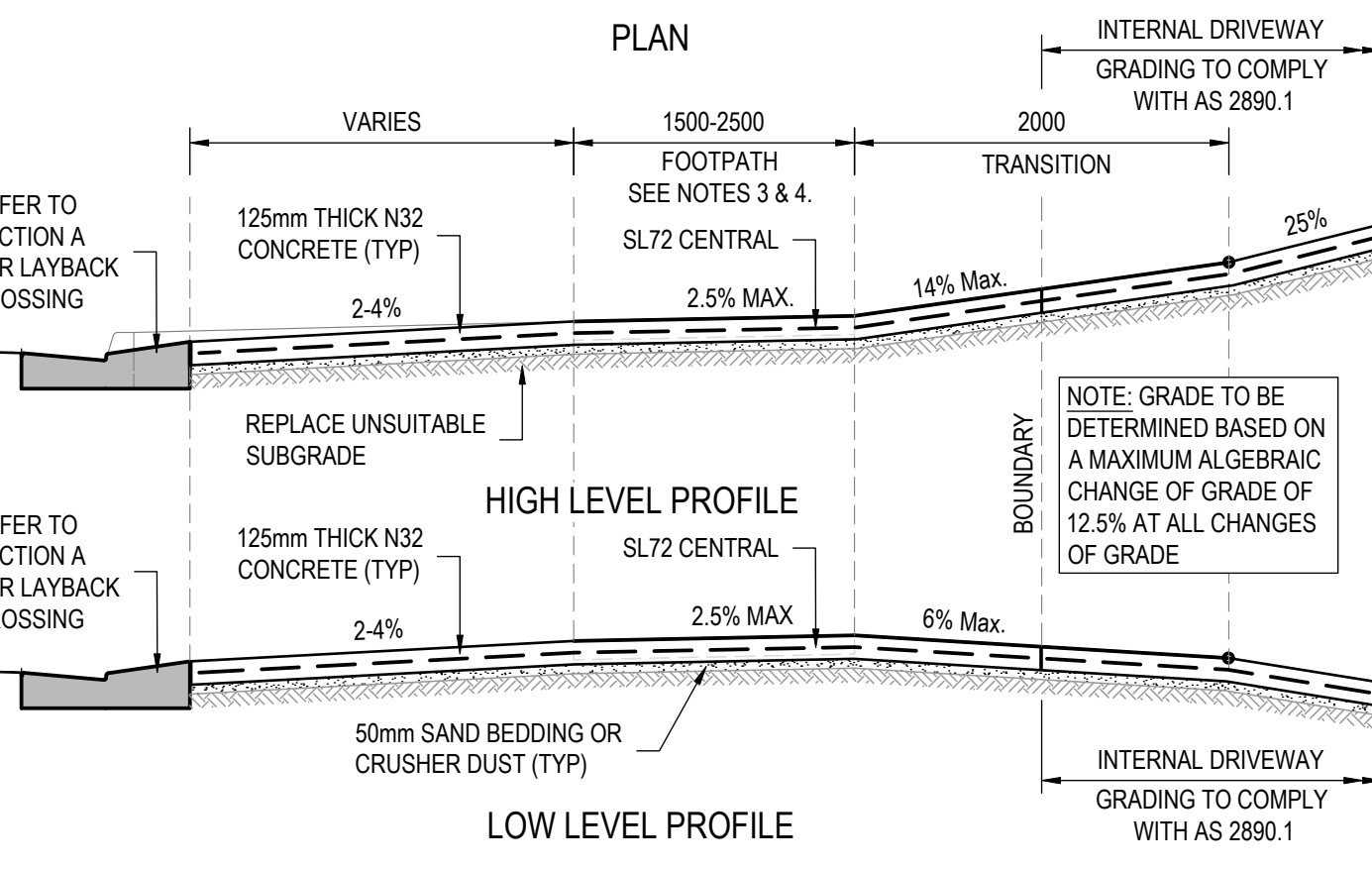
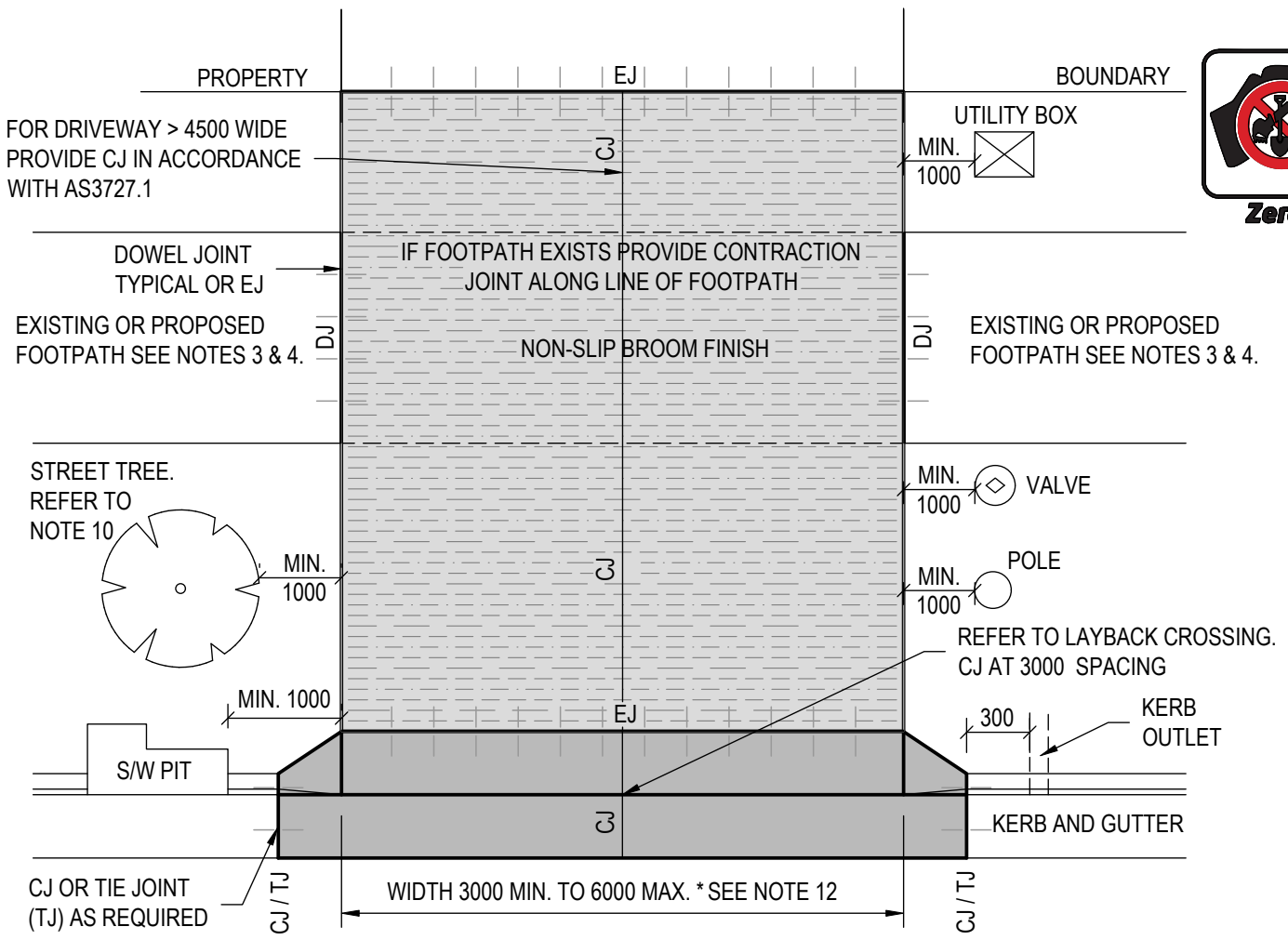


SECTION A-A
(INVERT LIP DETAIL - WHERE REQUIRED)
 (SEE NOTE 3 & 4)

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
 Coffs Harbour, NSW. 2450
 Ph. (02)66484000
 www.coffsharbour.nsw.gov.au
 coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.	
		R-230-02	
URBAN ROADS STANDARD ACCESSIBLE VEHICULAR CROSSING SHEET 2 OF 2		Orig. Size	Revision
		A3	1



DRILL N12 (HOT DIPPED GALVANISED) TIE BAR INTO EXISTING CONCRETE. 350mm LONG @ 300 CTRS. EPOXY WITH CHEMSET 502 OR APPROVED EQUIV.

SCABBLE FACE OF CONCRETE AS A CONSTRUCTION JOINT

NOTES:

1. THIS DRAWING IS TO BE USED AS A GUIDE ONLY. RESIDENTIAL VEHICLE ACCESS CROSSING ARE TO BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH AS2890.1, AS3727.1 AND AS3600
2. ALL CONCRETE SHALL BE 32MPa MINIMUM STRENGTH AT 28 DAYS.
3. IF EXISTING FOOTPATH ENCOUNTERED, FOOTPATH IS TO BE REMOVED AND REPLACED WITH 125mm THICK REINFORCED CONCRETE. PROVIDE DOWEL EXPANSION JOINT AS PER DETAIL ON STD DRG R-230-04 WHERE DRIVEWAY MEETS FOOTPATH.
4. WHERE FOOTPATH IS ENCOUNTERED DRIVEWAY GRADE SHALL NOT EXCEED 2.5%.
5. CROSSING MUST BE PERPENDICULAR TO ROAD UNLESS OTHERWISE APPROVED.
6. LOCATION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT RELEVANT AUTHORITIES IF IN NEED OF ASSISTANCE.
7. EXPOSED BATTERS TO BE TOPSOILED AND TURFED ON A UNIFORM GRADE NO GREATER THAN 4 HORIZ TO 1 VERT (4H:1V)
8. INSPECTION BY THE CITY IS REQUIRED WHEN ALL FORMWORK, SAND BEDDING, REINFORCEMENT MESH AND EXPANSION JOINTS ARE IN PLACE.
9. DRIVEWAYS ON ROADS WITH NO KERB AND GUTTER MUST MATCH BITUMEN LEVEL. BITUMEN TO BE SAW CUT TO PROVIDE NICE EVEN EDGE.
10. STREET TREES ARE NOT TO BE REMOVED UNLESS AUTHORISED BY THE CITY. CONTACT CITY'S DEVELOPMENT ENGINEERING TEAM PRIOR TO CONSTRUCTION.
11. DRIVEWAYS ARE NOT TO IMPACT SERVICE PITS, VALVES OR ACCESS CHAMBERS AND ARE TO HAVE MIN. 1000 CLEARANCE FROM EDGE OF NEW DRIVEWAY. IF PROBLEM OCCURS PLEASE CONTACT THE CITY OR RELEVANT AUTHORITY TO ARRANGE INSPECTION.
12. DRIVEWAY WIDTH AS PER APPROVED STAMPED PLANS. MAXIMUM WIDTH SHOWN IN PLAN IS A GUIDE ONLY. WIDTH WILL BE ASSESSED FOR EACH DRIVEWAY INDIVIDUALLY.

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

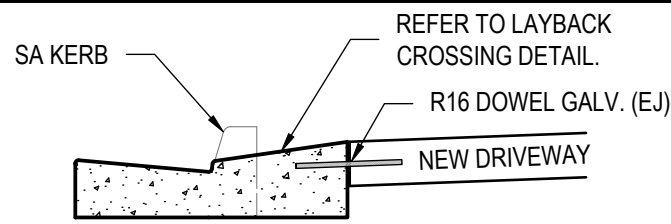
STANDARD DRAWINGS

URBAN RESIDENTIAL DRIVEWAY AND LAYBACK VEHICULAR CROSSING

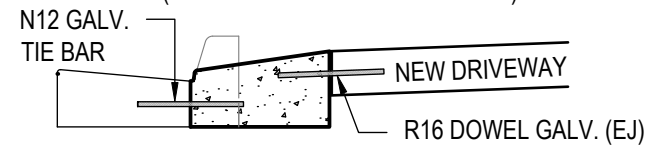
SHEET 1 OF 2

Council Plan No.
R-230-03

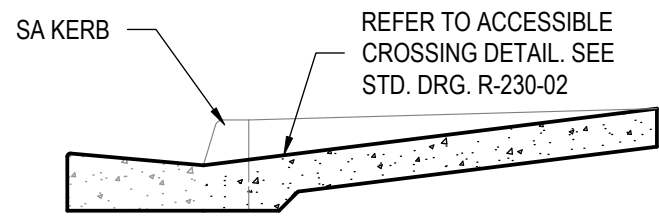
Orig. Size	Revision
A3	1



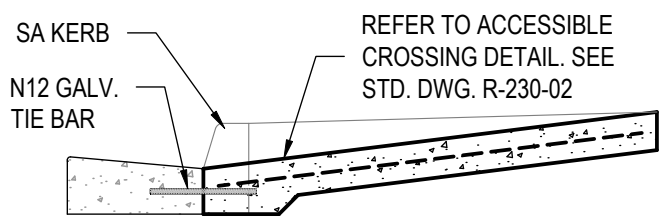
SA KERB WITH STANDARD LAYBACK
(FOR KERB & GUTTER REMOVED)



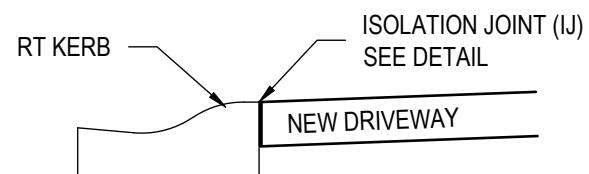
SA KERB WITH STANDARD LAYBACK
(FOR KERB CHANNEL REMOVED ONLY)



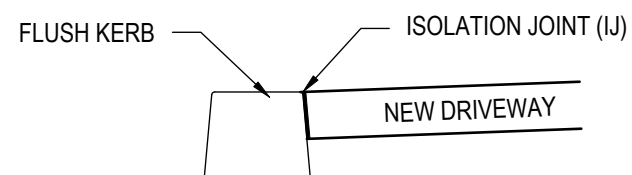
SA KERB WITH ACCESSIBLE LAYBACK
(FOR KERB & GUTTER REMOVED)



SA KERB WITH ACCESSIBLE LAYBACK
(FOR KERB CHANNEL REMOVED ONLY)

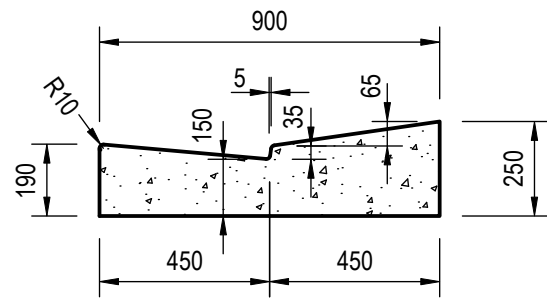


ROLL KERB

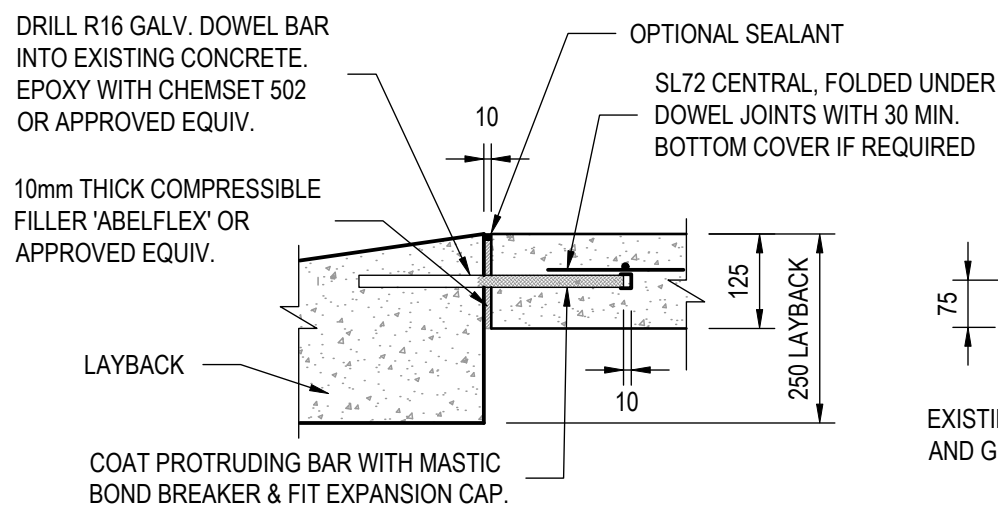


EDGE STRIP

TYPICAL DRIVEWAY TO KERB INTERFACE

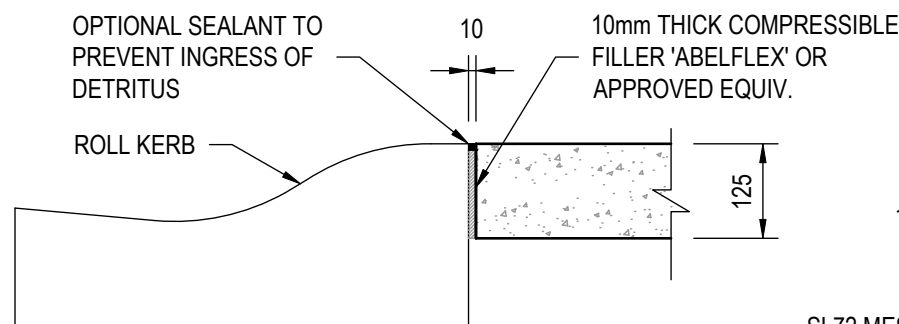


STANDARD LAYBACK CROSSING DETAIL
SCALE 1:20



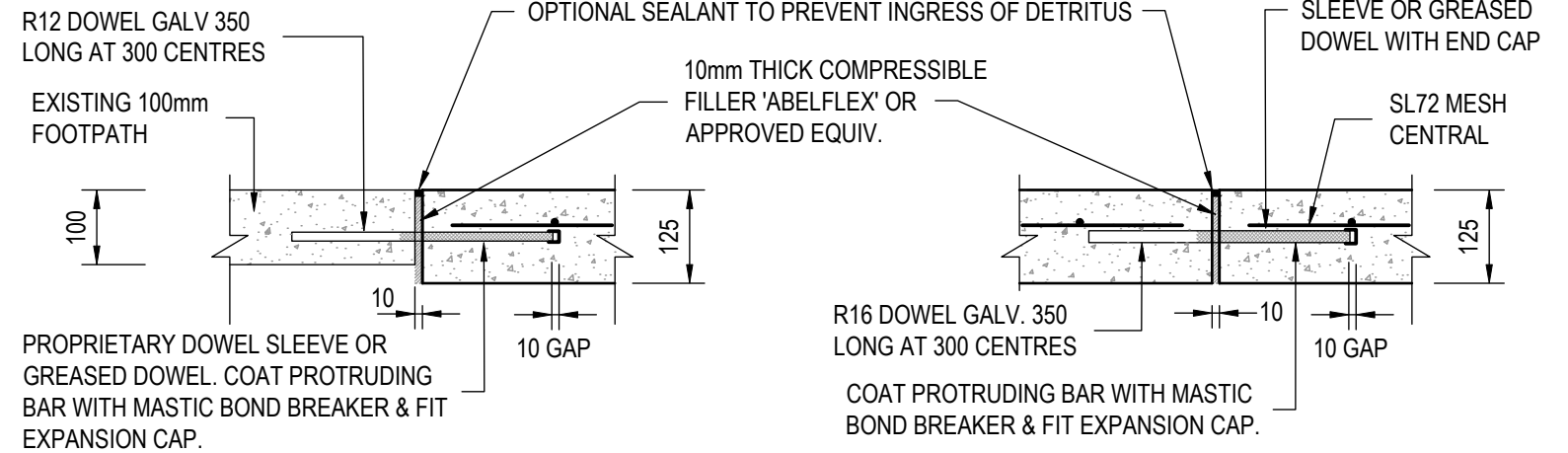
EXPANSION JOINT (EJ) LAYBACK TO VEHICLE ACCESS CROSSING

SCALE 1:10



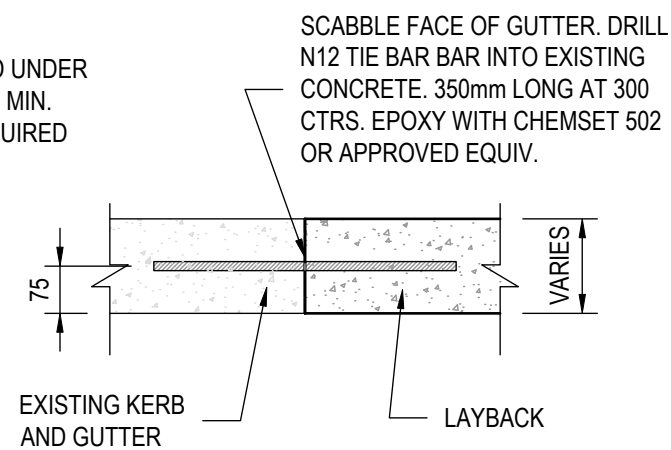
ISOLATION JOINT (IJ) ROLL KERB TO VEHICLE ACCESS CROSSING
(FLUSH KERB SIMILAR)

SCALE 1:10



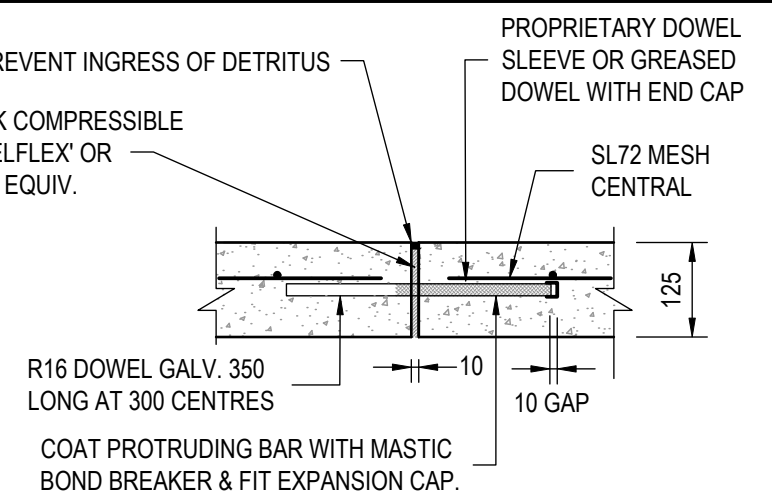
DOWEL JOINT (DJ) 125mm VEHICLE ACCESS CROSSING TO FOOTPATH

SCALE 1:10



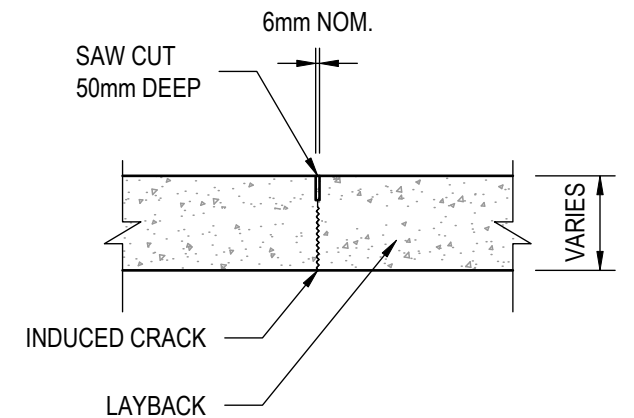
TIE JOINT (TJ) IN KERB & GUTTER TO COMPLETELY RETROFITTED LAYBACK

SCALE 1:10



EXPANSION JOINT (EJ) 125mm

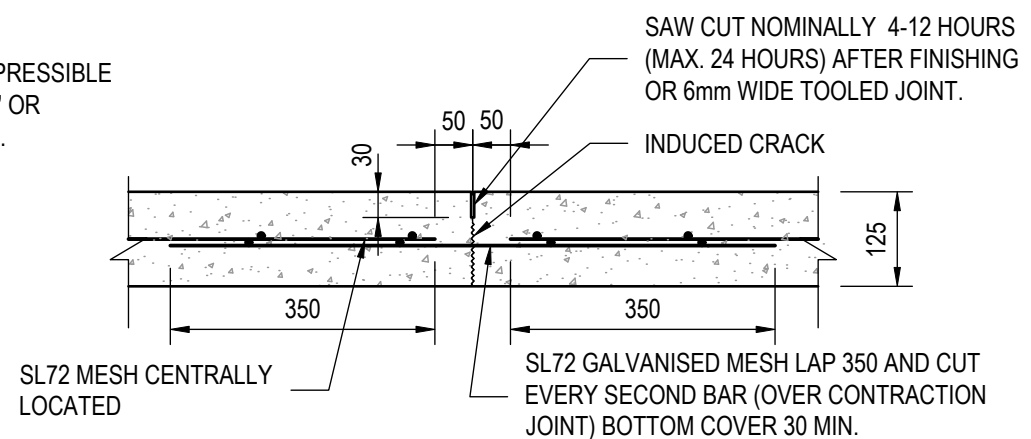
SCALE 1:10



CONTROL JOINT IN LAYBACK

SCALE 1:10

(TYPICALLY AT 3000 CENTRES)



CONTROL JOINT IN DRIVEWAY

SCALE 1:10

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour, NSW, 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS
RESIDENTIAL DRIVEWAY
TYPICAL JOINTING DETAILS
SHEET 2 OF 2

Council Plan No.

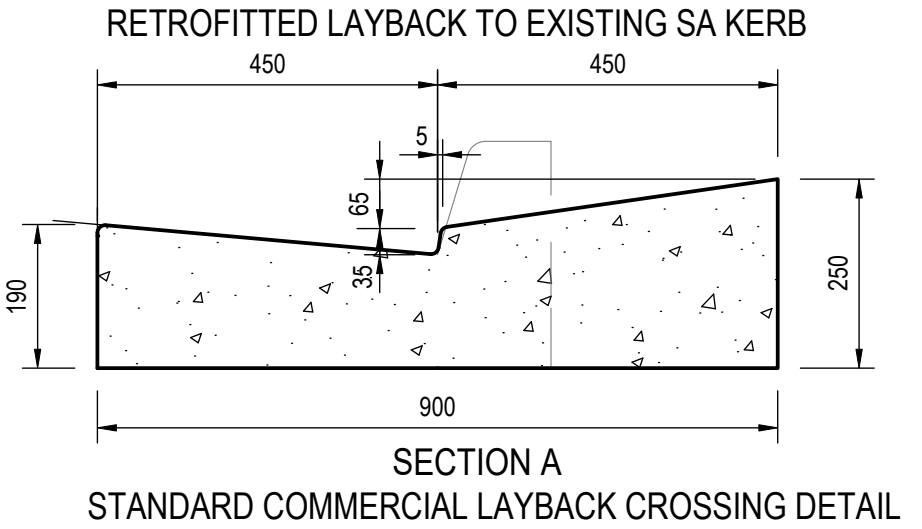
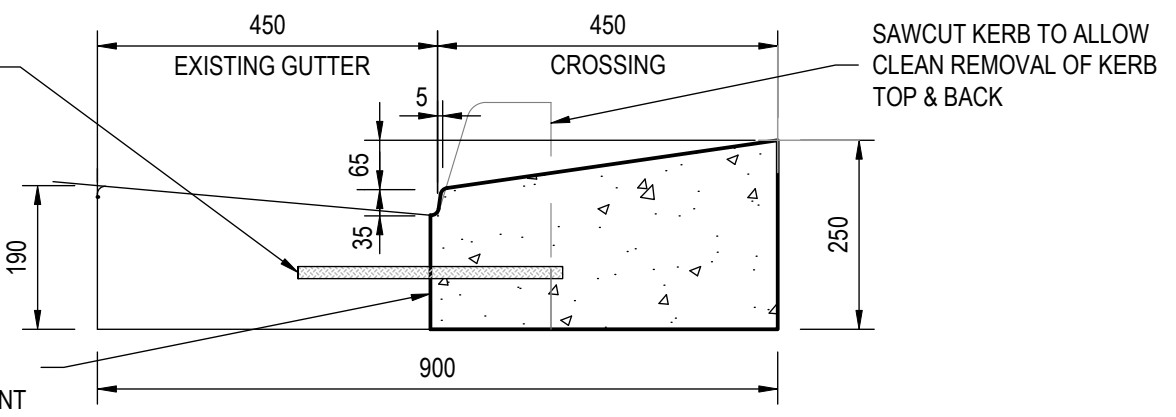
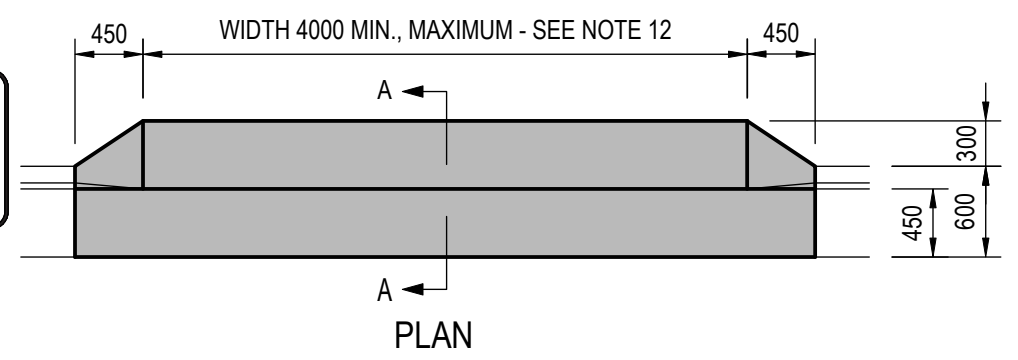
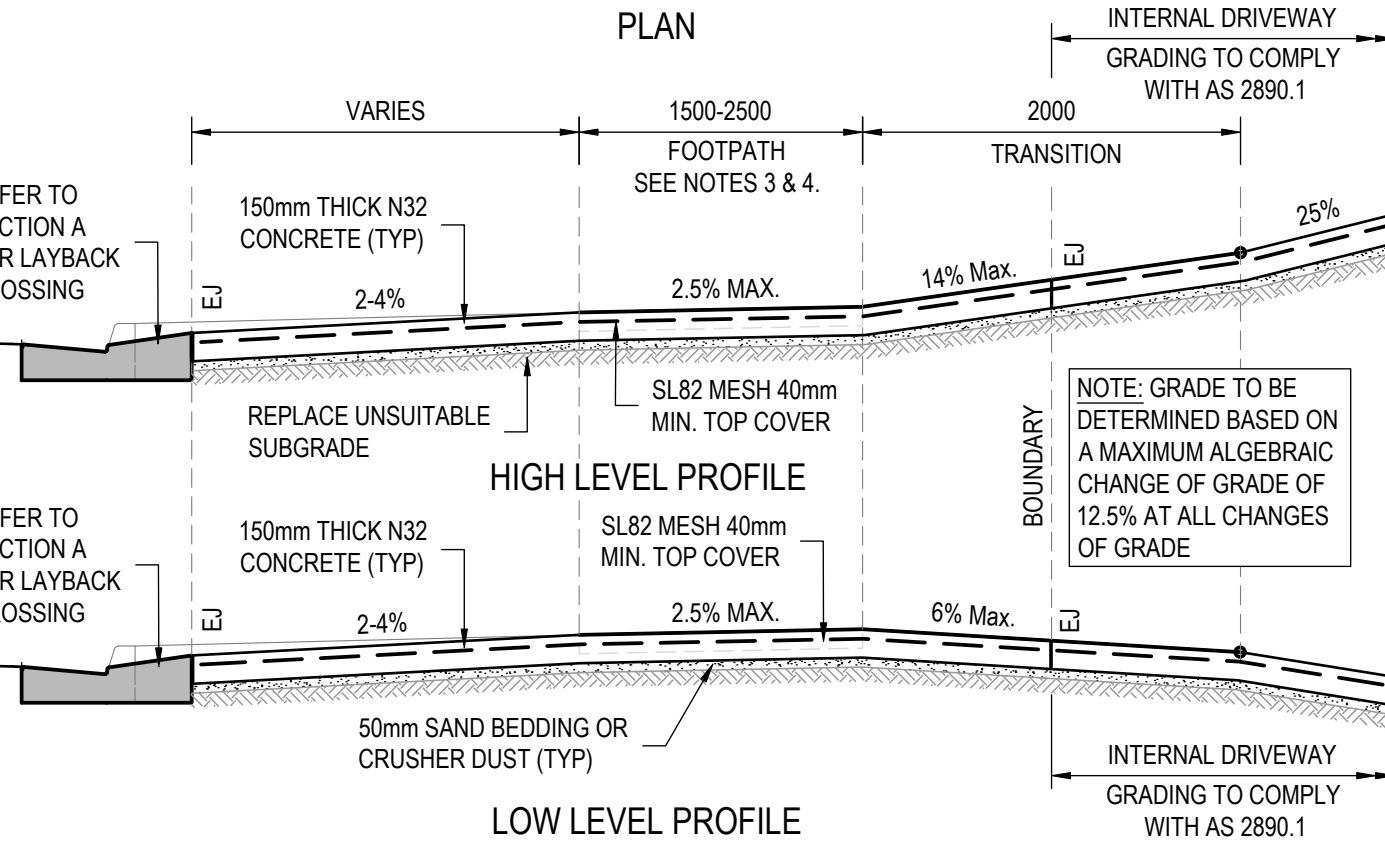
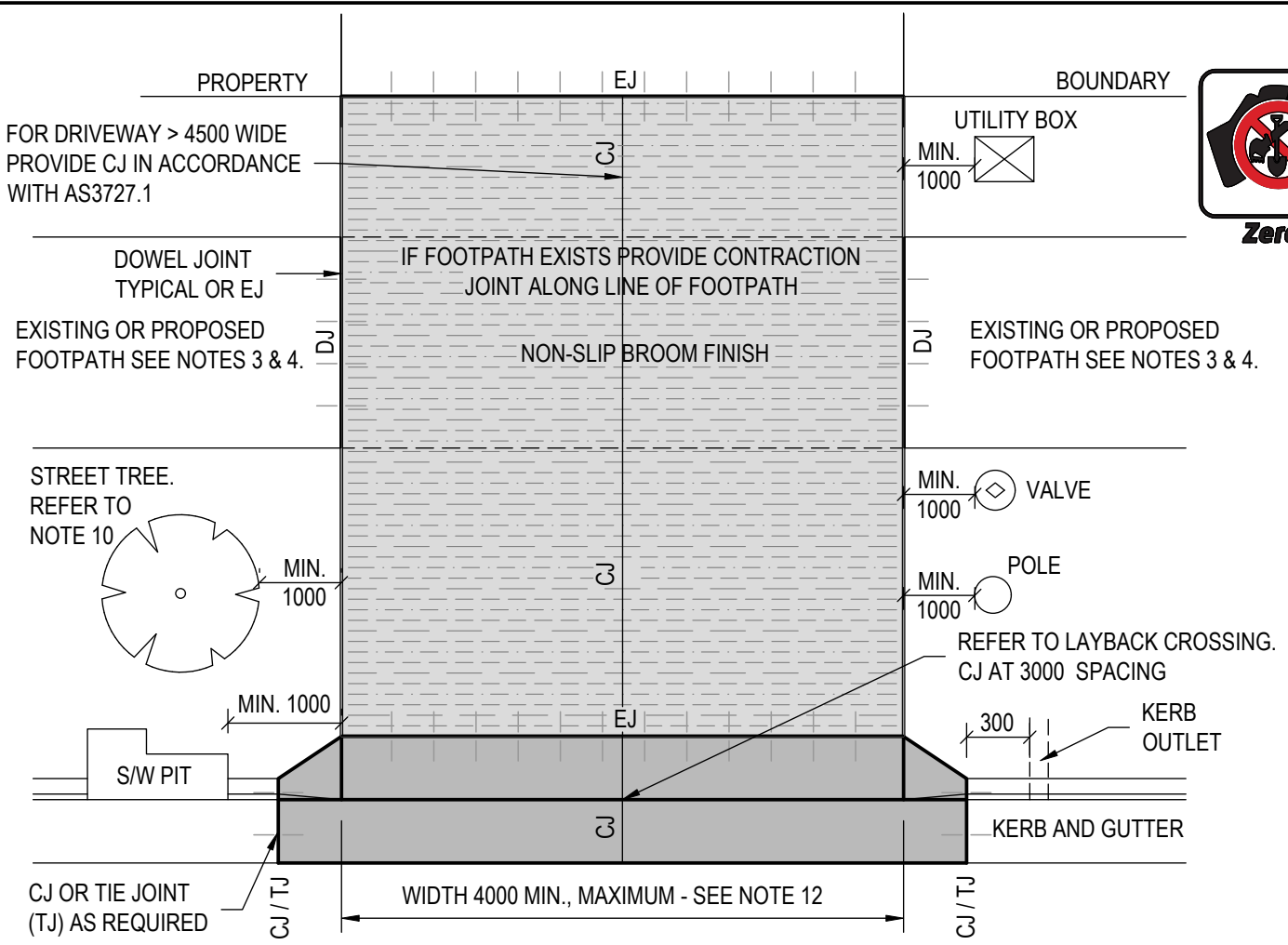
R-230-04

Orig. Size

A3

Revision

1

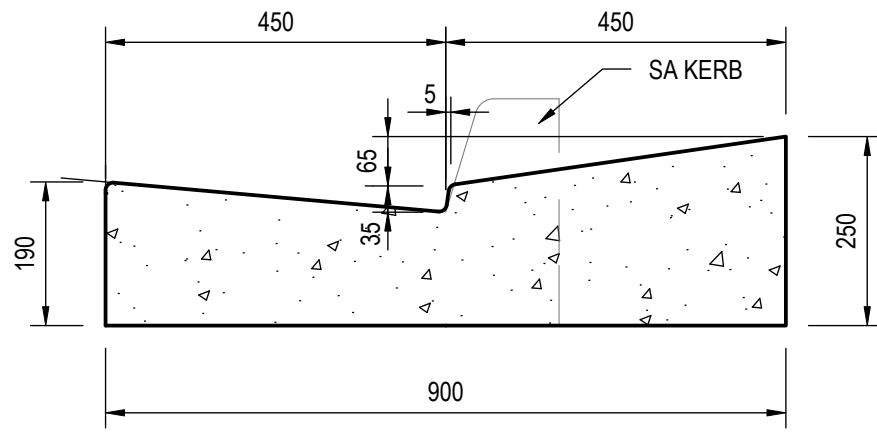


- NOTES:**
1. THIS DRAWING IS TO BE USED AS A GUIDE ONLY. COMMERCIAL VEHICLE ACCESS CROSSING ARE TO BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH AS2890.1, AS3727.1 AND AS3600
 2. ALL CONCRETE SHALL BE 32MPa MINIMUM STRENGTH AT 28 DAYS.
 3. IF EXISTING FOOTPATH ENCOUNTERED, FOOTPATH IS TO BE REMOVED AND REPLACED WITH 150mm THICK REINFORCED CONCRETE. PROVIDE DOWEL EXPANSION JOINT AS PER DETAIL ON STD. DRG. R-230-06 WHERE DRIVEWAY MEETS FOOTPATH.
 4. WHERE FOOTPATH IS ENCOUNTERED DRIVEWAY GRADE SHALL NOT EXCEED 2.5%.
 5. CROSSING MUST BE PERPENDICULAR TO ROAD UNLESS OTHERWISE APPROVED.
 6. LOCATION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT RELEVANT AUTHORITIES IF IN NEED OF ASSISTANCE.
 7. EXPOSED BATTERS TO BE TOPSOILED AND TURFED ON A UNIFORM GRADE NO GREATER THAN 4 HORIZ TO 1 VERT (4H:1V)
 8. INSPECTION BY THE CITY IS REQUIRED WHEN ALL FORMWORK, SAND BEDDING, REINFORCEMENT MESH AND EXPANSION JOINTS ARE IN PLACE.
 9. DRIVEWAYS ON ROADS WITH NO KERB AND GUTTER MUST MATCH BITUMEN LEVEL. BITUMEN TO BE SAW CUT TO PROVIDE NICE EVEN EDGE.
 10. STREET TREES ARE NOT TO BE REMOVED UNLESS AUTHORISED BY THE CITY. CONTACT THE CITY'S DEVELOPMENT ENGINEERING TEAM PRIOR TO CONSTRUCTION.
 11. DRIVEWAYS ARE NOT TO IMPACT SERVICE PITS, VALVES OR ACCESS CHAMBERS AND ARE TO HAVE MIN. 1000 CLEARANCE FROM EDGE OF NEW DRIVEWAY. IF PROBLEM OCCURS PLEASE CONTACT THE CITY OR RELEVANT AUTHORITY TO ARRANGE INSPECTION.
 12. MAXIMUM DRIVEWAY WIDTH AS PER APPROVED STAMPED PLANS. WIDTH WILL BE ASSESSED FOR EACH DRIVEWAY INDIVIDUALLY TAKING INTO ACCOUNT OF VEHICLE SWEEP PATHS ANALYSIS.

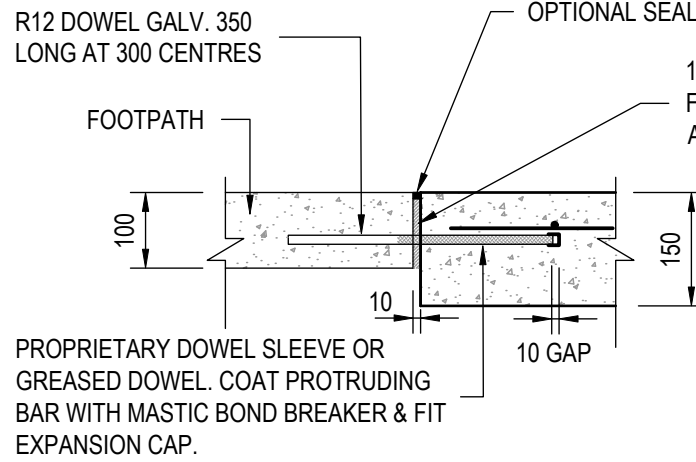
Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



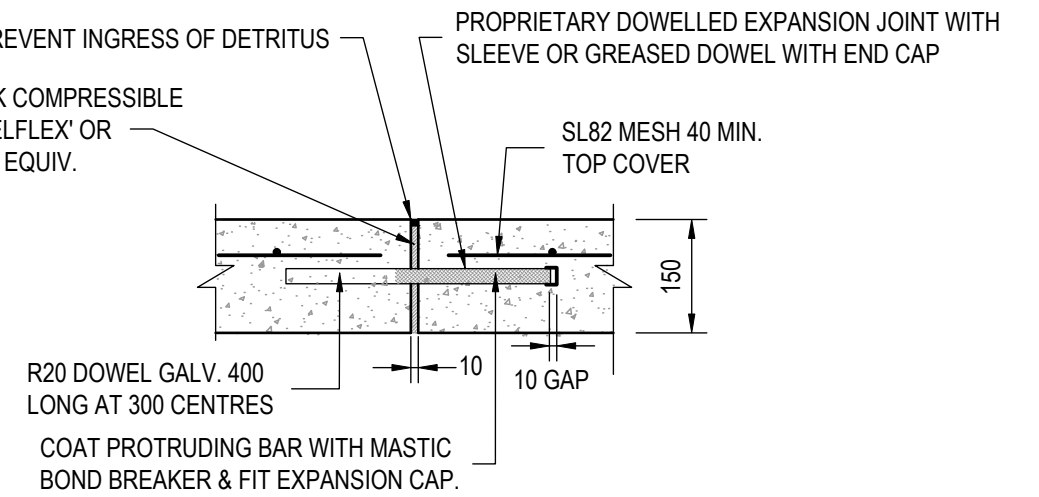
STANDARD DRAWINGS		Council Plan No.
COMMERCIAL DRIVEWAY AND LAYBACK VEHICULAR CROSSING		R-230-05
SHEET 1 OF 2	Orig. Size	Revision
	A3	1



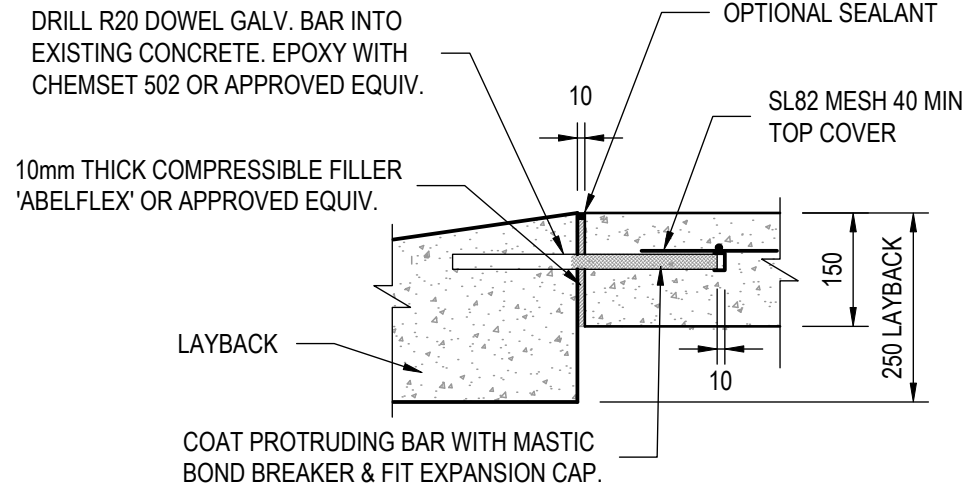
STANDARD COMMERCIAL LAYBACK CROSSING DETAIL
SCALE 1:10



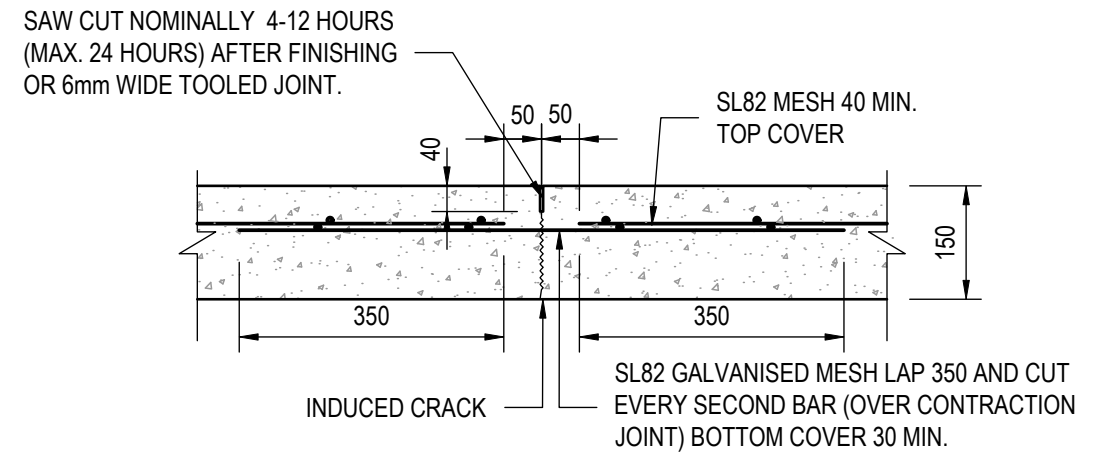
DOWEL JOINT (DJ) 150mm VEHICLE ACCESS CROSSING TO FOOTPATH
SCALE 1:10



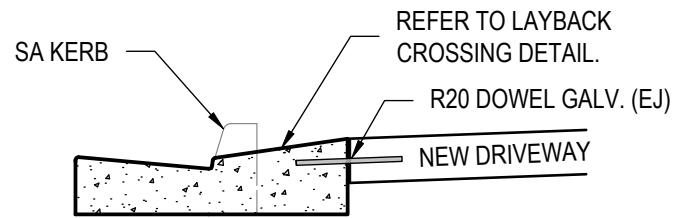
EXPANSION JOINT (EJ) 150mm
SCALE 1:10



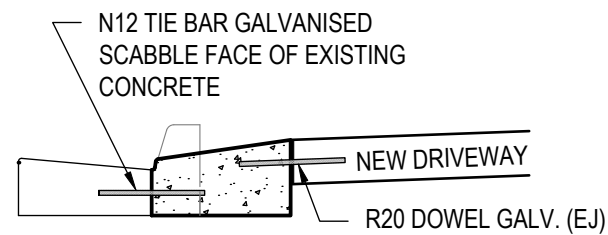
EXPANSION JOINT (EJ) LAYBACK TO COMMERCIAL VEHICLE ACCESS CROSSING
SCALE 1:10



CONTROL JOINT IN DRIVEWAY
SCALE 1:10

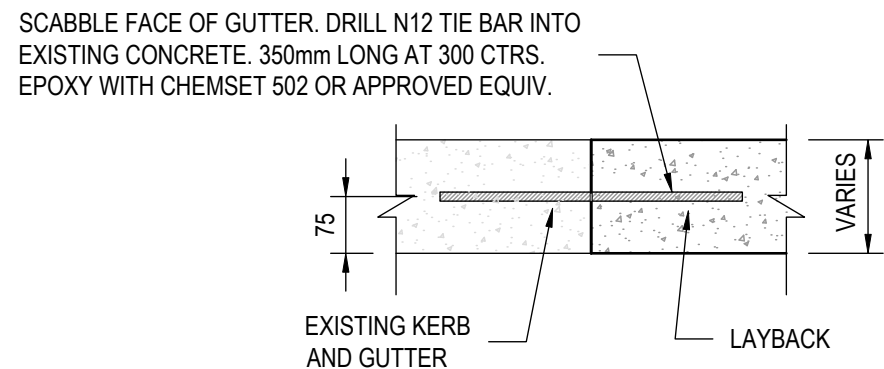


SA KERB WITH STANDARD LAYBACK (FOR KERB & GUTTER REMOVED)

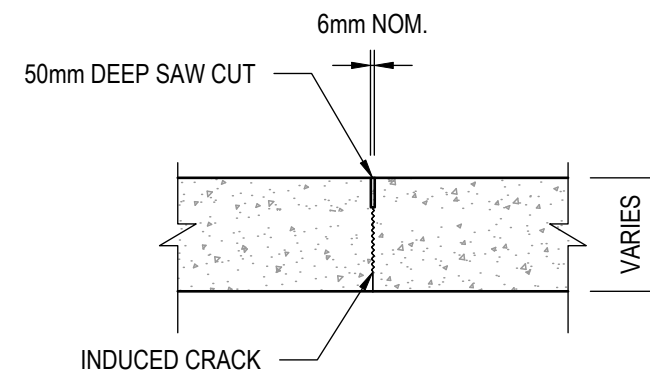


SA KERB WITH STANDARD LAYBACK (FOR KERB CHANNEL REMOVED ONLY)

TYPICAL DRIVEWAY TO KERB INTERFACE



TIE JOINT (TJ) IN KERB & GUTTER TO COMPLETELY RETROFITTED LAYBACK
SCALE 1:10



CONTROL JOINT IN LAYBACK
SCALE 1:10 (TYPICALLY AT 3000 CENTRES)

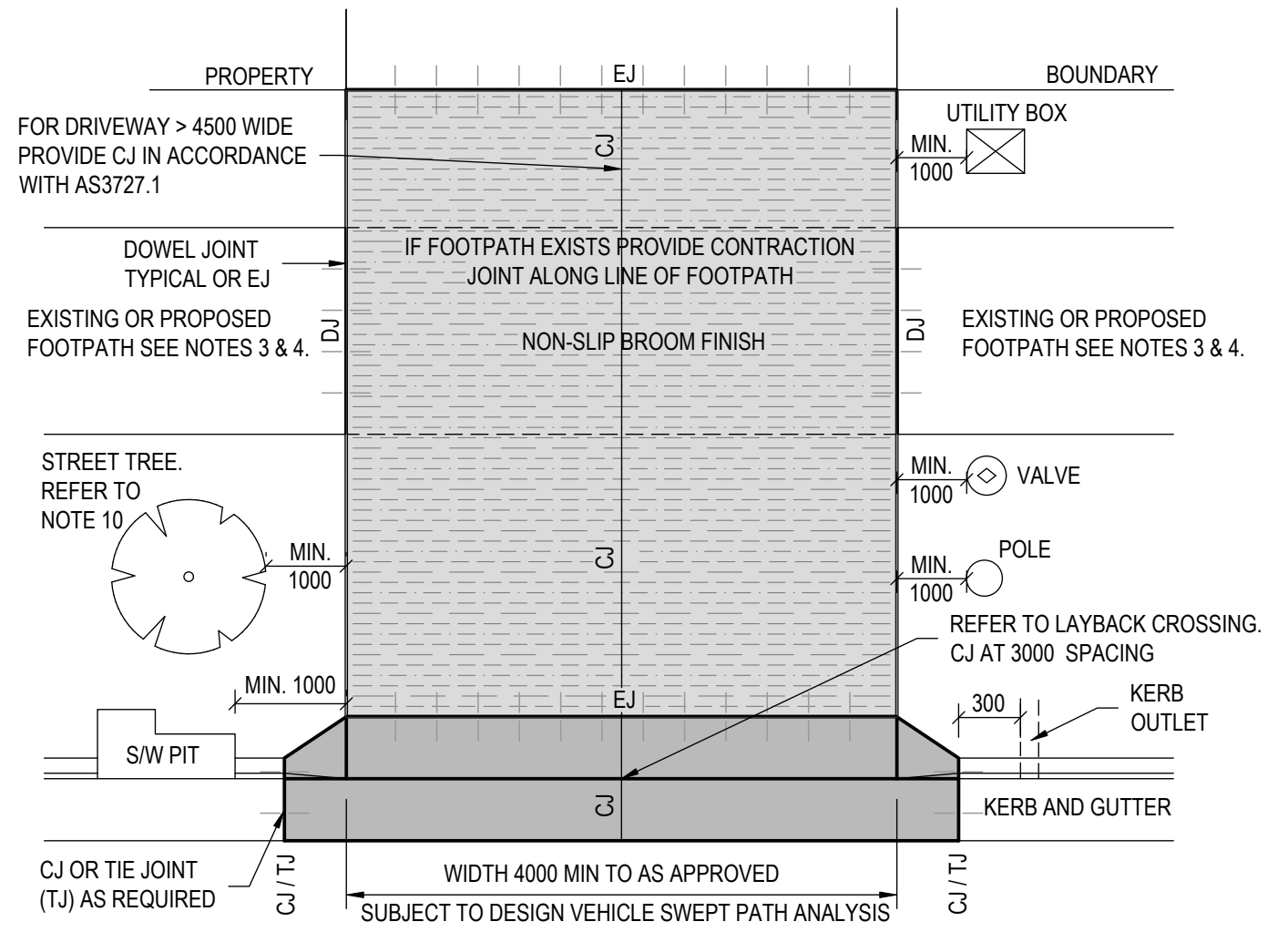
Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



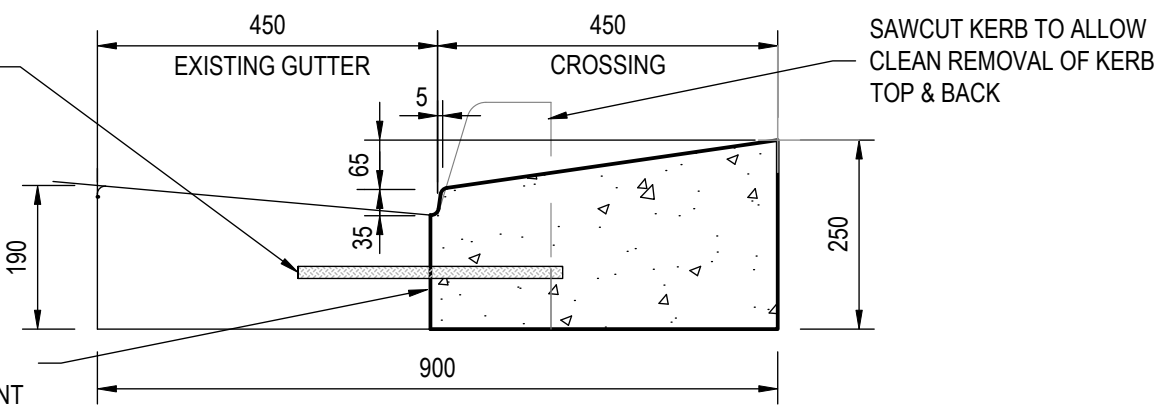
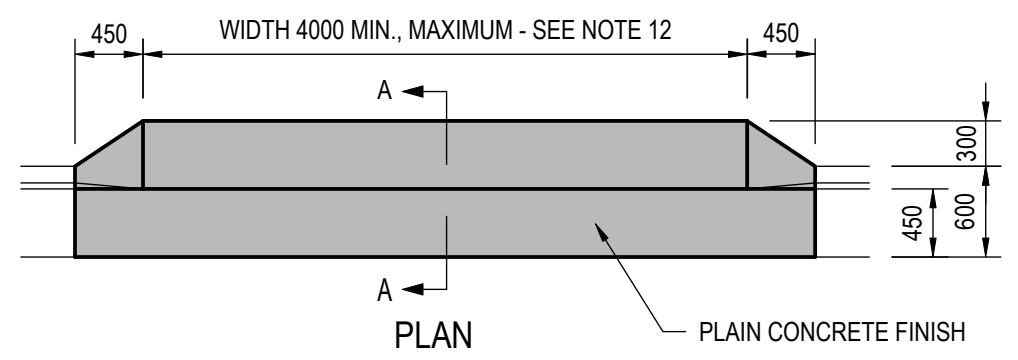
Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS
COMMERCIAL DRIVEWAY
TYPICAL JOINTING DETAILS
SHEET 2 OF 2

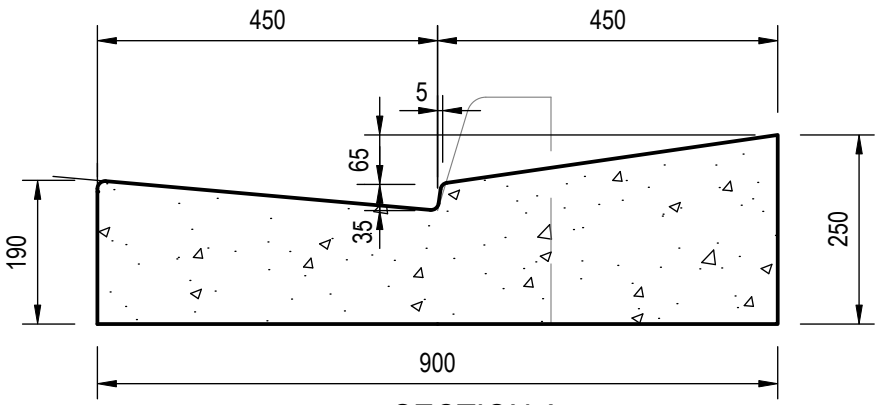
Council Plan No.
R-230-06
Orig. Size
A3
Revision
1



DRILL N12 GALV. TIE BAR INTO EXISTING CONCRETE. 350mm LONG @ 300 CTRS. EPOXY WITH CHEMSET 502 OR APPROVED EQUIV.



RETROFITTED LAYBACK TO EXISTING SA KERB

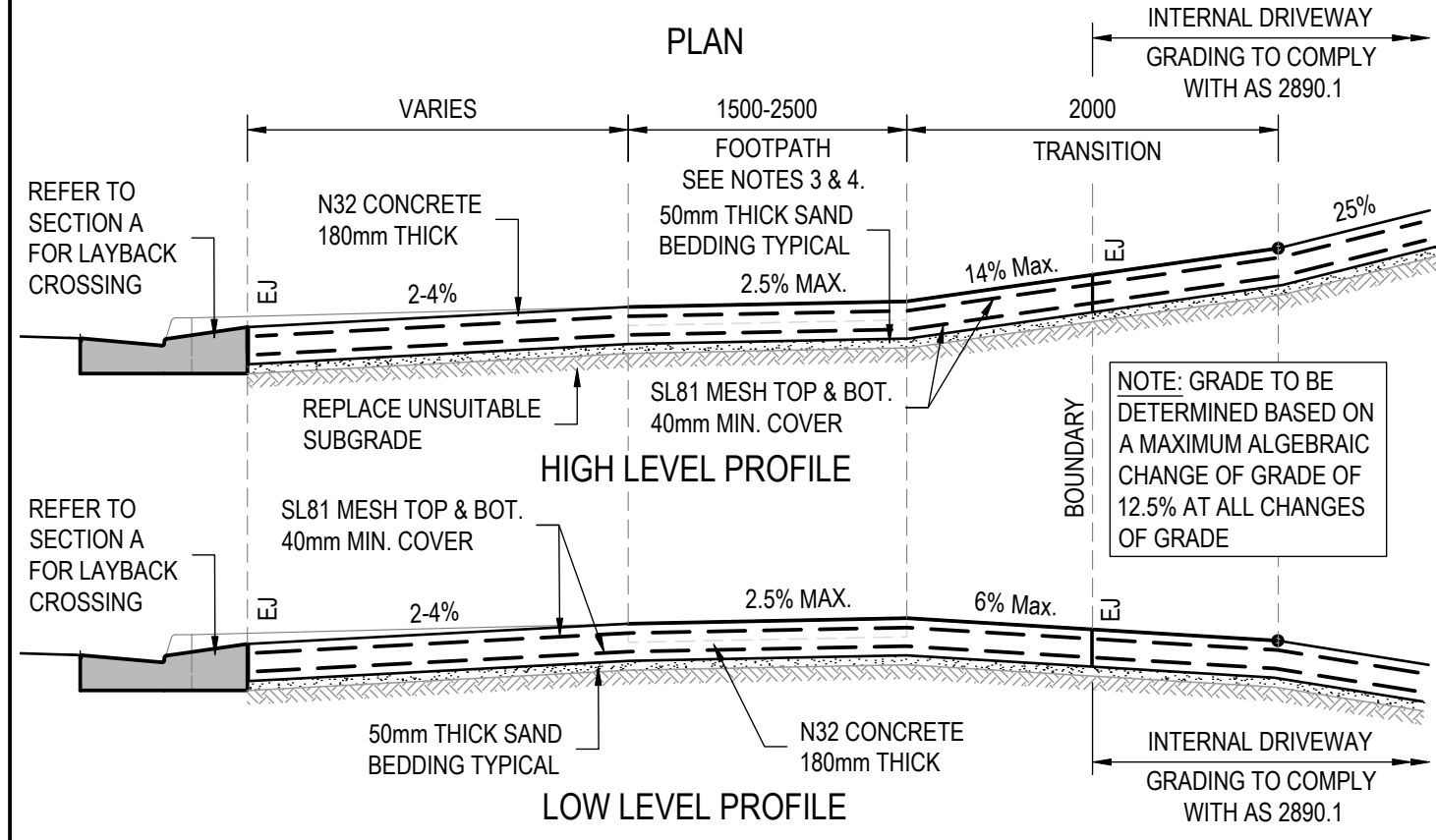


SECTION A

STANDARD INDUSTRIAL LAYBACK CROSSING DETAIL

PLAN

INTERNAL DRIVEWAY GRADING TO COMPLY WITH AS 2890.1



HIGH LEVEL PROFILE

LOW LEVEL PROFILE

NOTES:

- THIS DRAWING IS TO BE USED AS A GUIDE ONLY. INDUSTRIAL VEHICLE ACCESS CROSSING ARE TO BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH AS2890.1, AS3727.1 AND AS3600 FOR A 19m LONG 3 AXLE & 6 AXLE SEMI TRAILER AND PRIME MOVER AND A MINIMUM BEARING CAPACITY OF 50kPa WITH DLA>1.1 AND LIVE LOAD FACTOR = 1.5.
- ALL CONCRETE SHALL BE 32MPa MINIMUM STRENGTH AT 28 DAYS.
- IF EXISTING FOOTPATH ENCOUNTERED, FOOTPATH IS TO BE REMOVED AND REPLACED WITH 180mm THICK REINFORCED CONCRETE. PROVIDE DOWEL EXPANSION JOINT AS PER DETAIL ON STD. DRG. R-230-08 WHERE DRIVEWAY MEETS FOOTPATH.
- WHERE FOOTPATH IS ENCOUNTERED DRIVEWAY GRADE SHALL NOT EXCEED 2.5%.
- CROSSING MUST BE PERPENDICULAR TO ROAD UNLESS OTHERWISE APPROVED.
- LOCATION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT RELEVANT AUTHORITIES IF IN NEED OF ASSISTANCE.
- EXPOSED BATTERS TO BE TOPSOILED AND TURFED ON A UNIFORM GRADE NO GREATER THAN 4 HORIZ TO 1 VERT (4H:1V)
- INSPECTION BY THE CITY IS REQUIRED WHEN ALL FORMWORK, SAND BEDDING, REINFORCEMENT MESH AND EXPANSION JOINTS ARE IN PLACE.
- DRIVEWAYS ON ROADS WITH NO KERB AND GUTTER MUST MATCH BITUMEN LEVEL. BITUMEN TO BE SAW CUT TO PROVIDE NICE EVEN EDGE.
- STREET TREES ARE NOT TO BE REMOVED UNLESS AUTHORISED BY THE CITY. CONTACT THE CITY'S DEVELOPMENT ENGINEERING TEAM PRIOR TO CONSTRUCTION.
- DRIVEWAYS ARE NOT TO IMPACT SERVICE PITS, VALVES OR ACCESS CHAMBERS AND ARE TO HAVE MIN. 1.0m CLEARANCE FROM EDGE OF NEW DRIVEWAY. IF PROBLEM OCCURS PLEASE CONTACT THE CITY OR RELEVANT AUTHORITY TO ARRANGE INSPECTION.
- MAXIMUM DRIVEWAY WIDTH AS PER APPROVED STAMPED PLANS. WIDTH WILL BE ASSESSED FOR EACH DRIVEWAY INDIVIDUALLY TAKING INTO ACCOUNT OF VEHICLE SWEEP PATHS ANALYSIS.

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

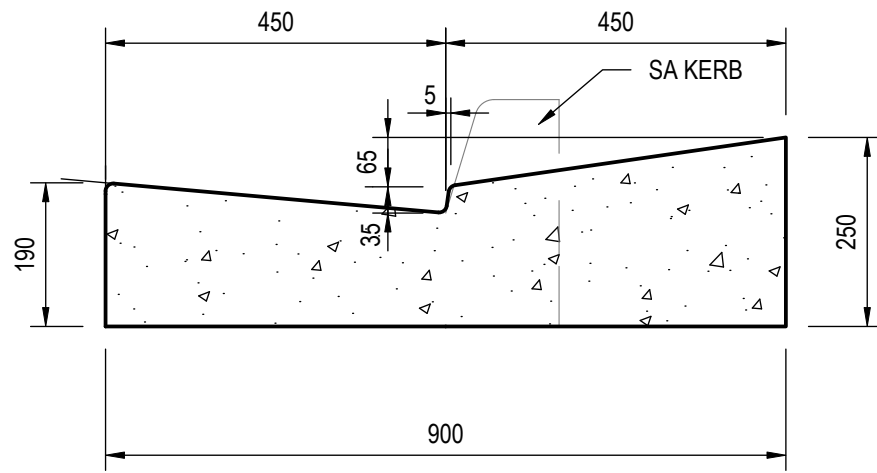
INDUSTRIAL DRIVEWAY AND LAYBACK VEHICULAR CROSSING

SHEET 1 OF 2

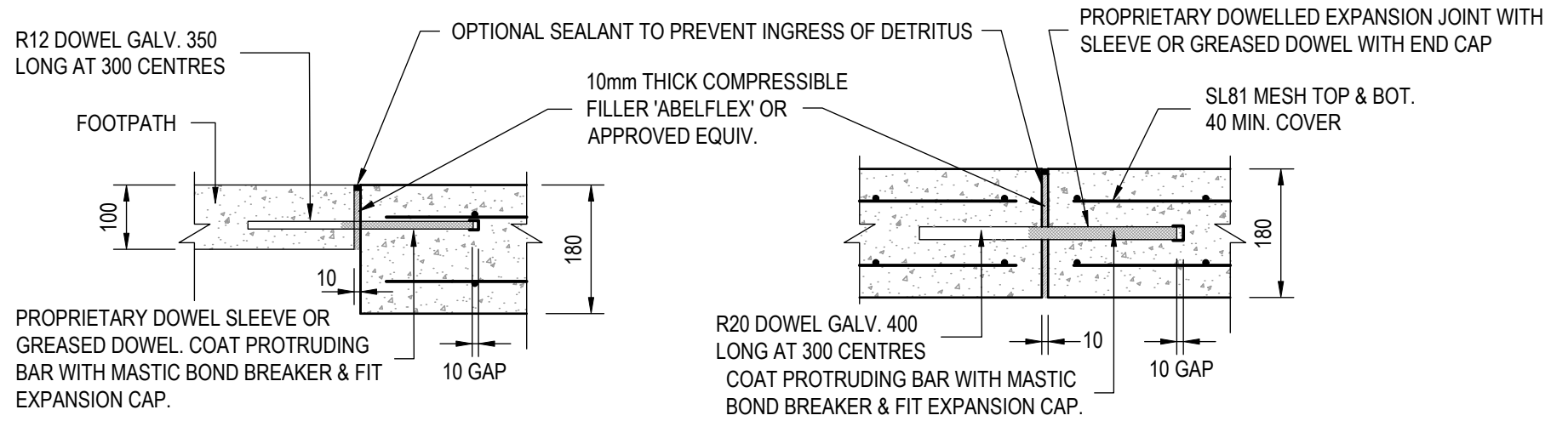
Council Plan No. R-230-07

Orig. Size A3

Revision 1

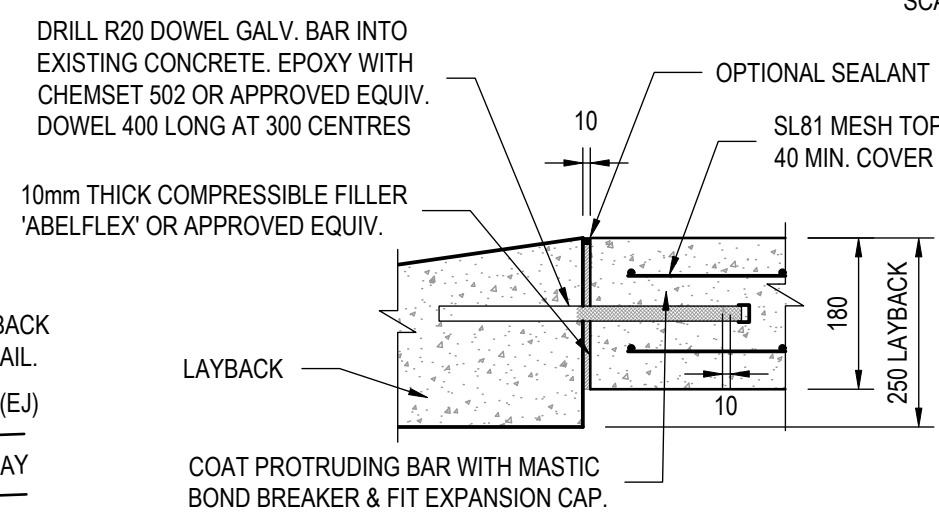


STANDARD INDUSTRIAL LAYBACK CROSSING DETAIL
SCALE 1:10

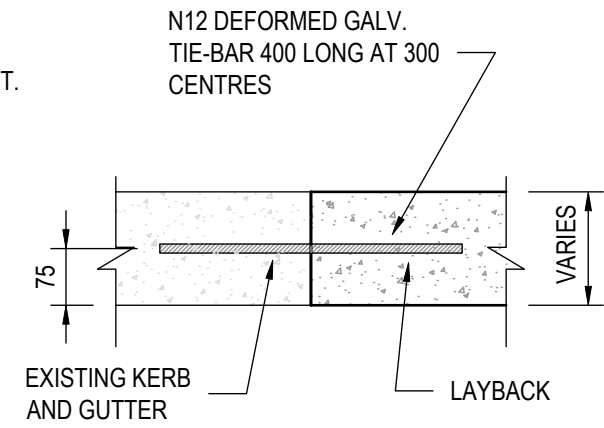


DOWEL JOINT (DJ) 200mm VEHICLE ACCESS CROSSING TO FOOTPATH
SCALE 1:10

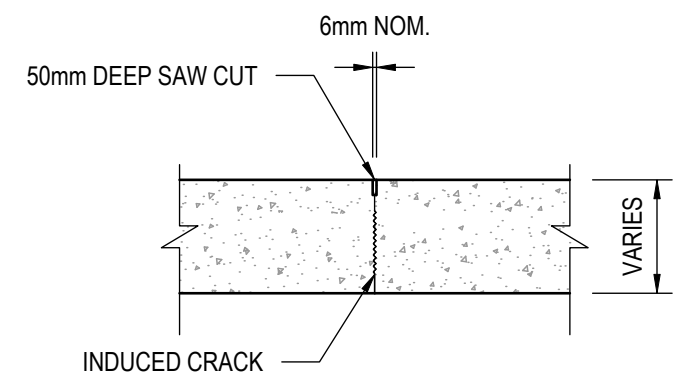
EXPANSION JOINT (EJ) 200mm
SCALE 1:10



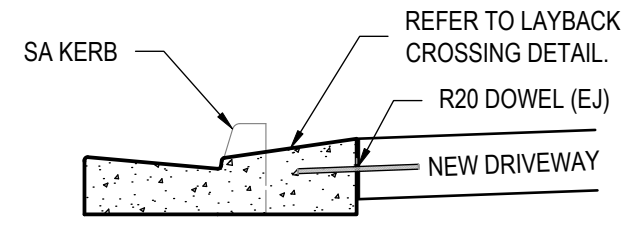
EXPANSION JOINT (EJ) LAYBACK TO COMMERCIAL VEHICLE ACCESS CROSSING
SCALE 1:10



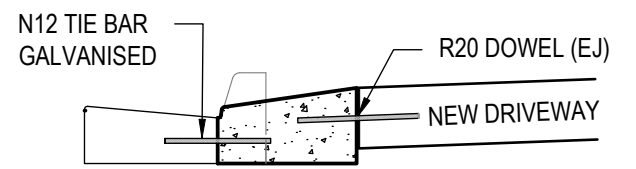
TIE JOINT (TJ) IN KERB & GUTTER TO COMPLETELY RETROFITTED LAYBACK
SCALE 1:10



CONTROL JOINT IN LAYBACK
SCALE 1:10
(TYPICALLY AT 3000 CENTRES)

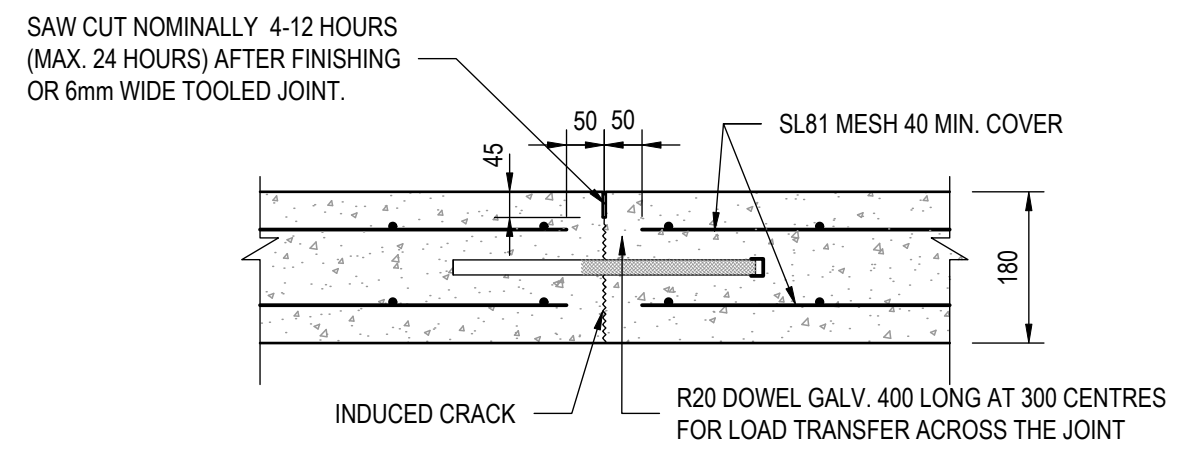


SA KERB WITH STANDARD LAYBACK (FOR KERB & GUTTER REMOVED)



SA KERB WITH STANDARD LAYBACK (FOR KERB CHANNEL REMOVED ONLY)

TYPICAL INDUSTRIAL DRIVEWAY TO KERB INTERFACE



CONTROL JOINT IN DRIVEWAY
SCALE 1:10

Drawn	B.P.S.					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S.	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

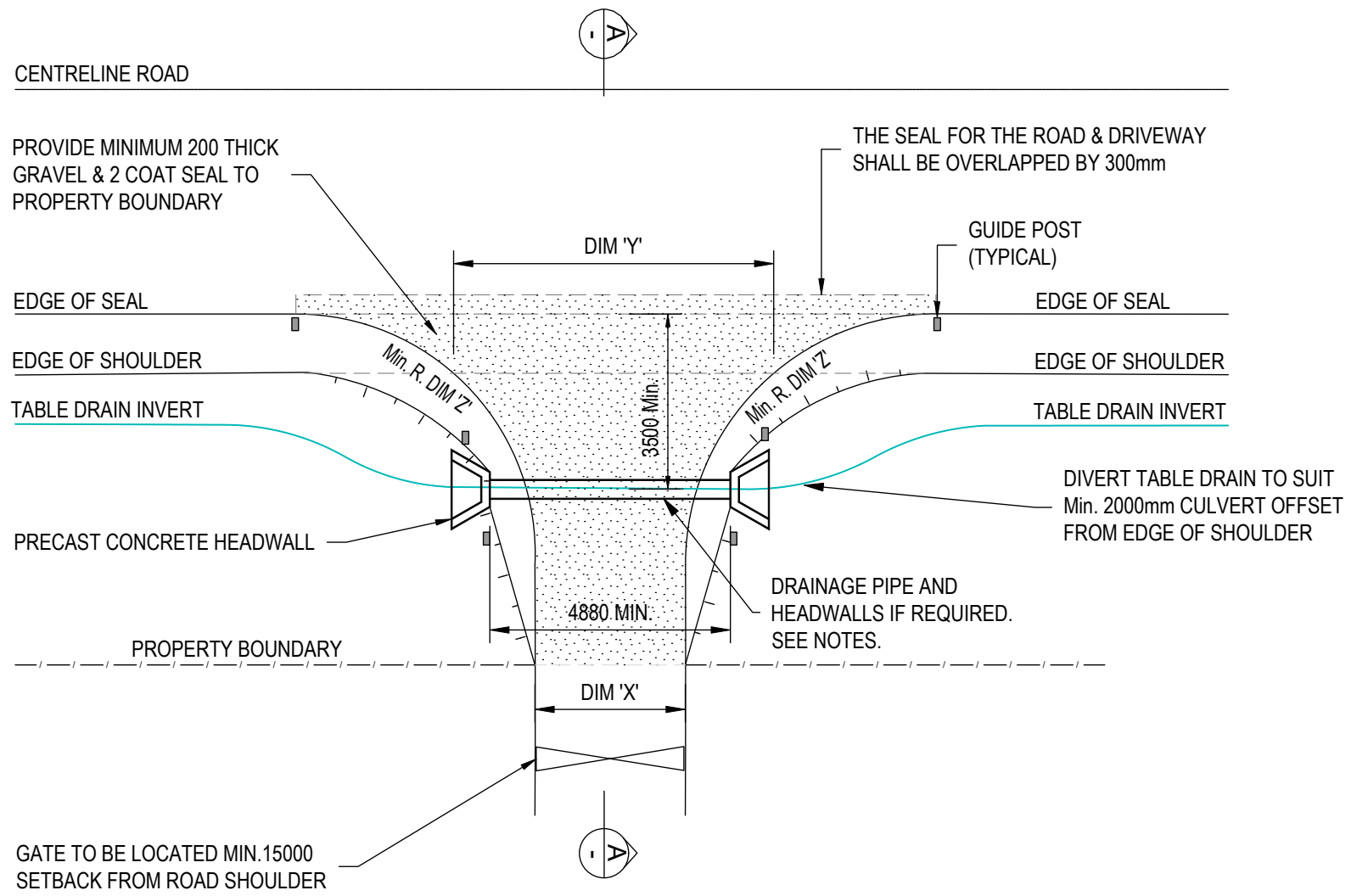
Locked Bag 155
Coffs Harbour, NSW, 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

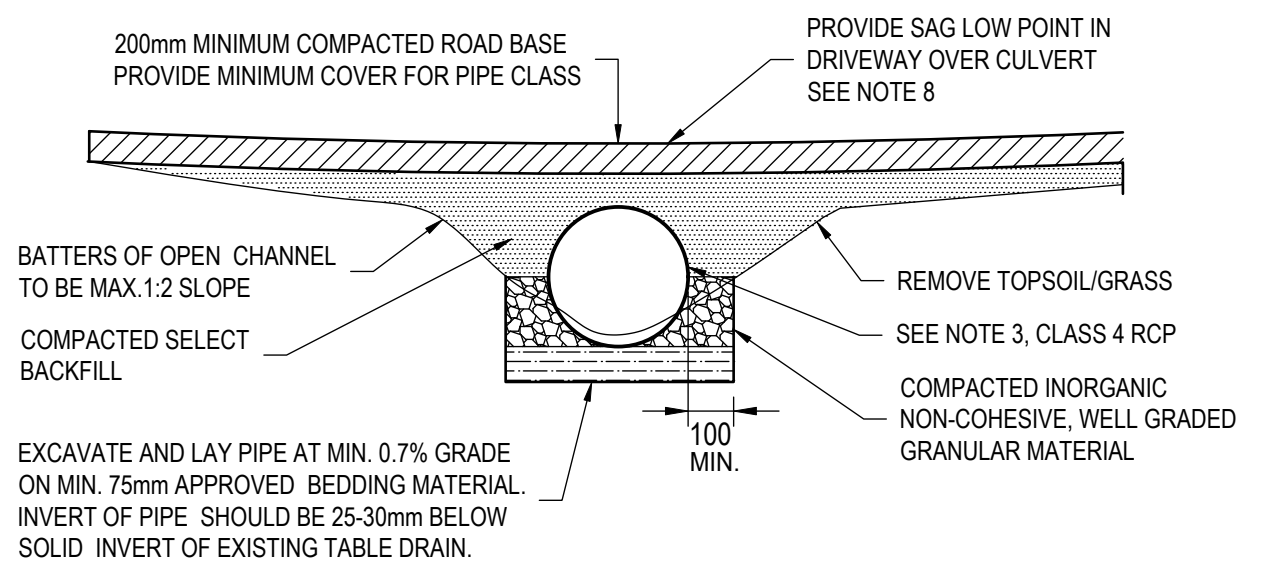
INDUSTRIAL DRIVEWAY TYPICAL JOINTING DETAILS

SHEET 2 OF 2

Council Plan No.	
R-230-08	
Orig. Size	Revision
A3	1



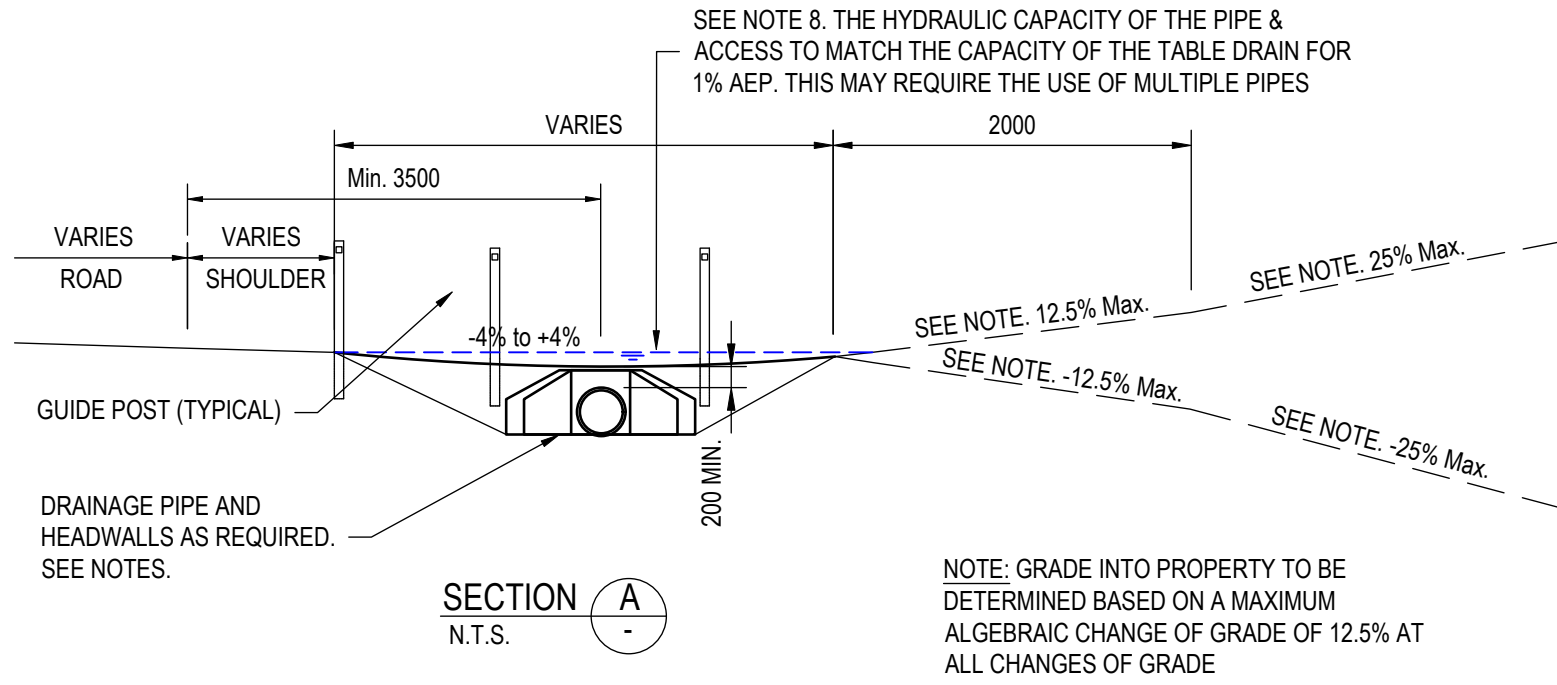
PLAN
NOT TO SCALE



TYPICAL CULVERT SECTION

TYPE OF DRIVEWAY	WIDTH 'X' (mm) AT BOUNDARY	WIDTH 'Y' (mm) AT SHOULDER	RADIUS 'Z' (m)	PAVEMENT THICKNESS
DWELLING	3000 MIN. 6000 MAX.	N/A	5m FOR ≤ 60km/h 10m FOR > 60km/h	200mm BASE COURSE
*COMMERCIAL/ INDUSTRIAL	7000	13000	TO BE DETERMINED BY DESIGN VEHICLE	SITE SPECIFIC DESIGN REQUIRED

* THESE WIDTHS ARE INDICATIVE ONLY AND SUBJECT TO SITE SUITABILITY. DIFFERENT WIDTHS MAY BE SPECIFIED IN SECTION 138 APPROVALS.



SECTION A
N.T.S.

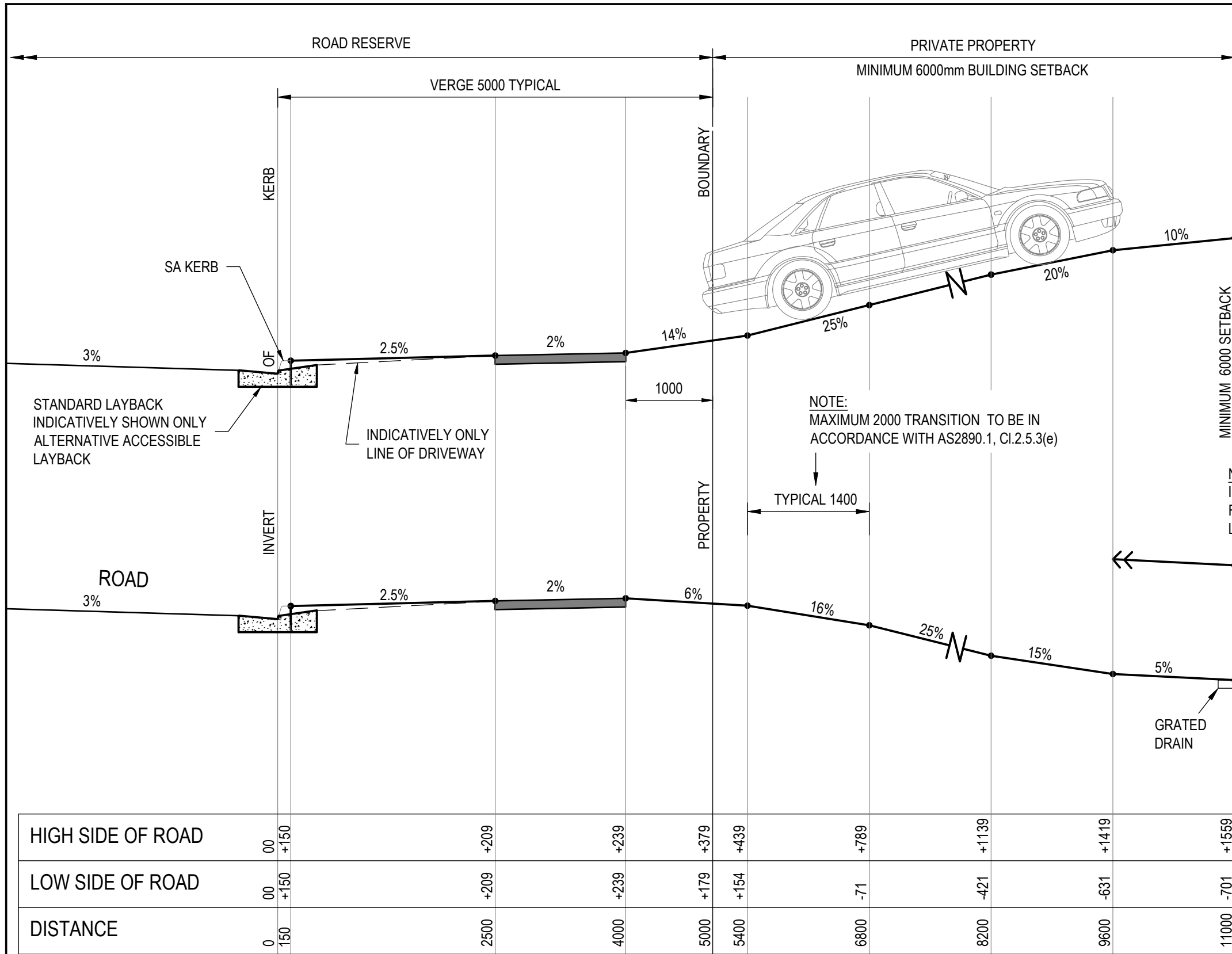
NOTES:

1. DRIVEWAYS MUST BE PERPENDICULAR TO THE ROAD OR STREET UNLESS APPROVED BY THE CITY.
2. IF OPEN TABLE DRAIN GREATER THAN 200mm DEEP IS TO BE CROSSED THEN PIPE CULVERT TO BE INSTALLED. PIPE TO MATCH INVERT LEVELS OF TABLE DRAIN AND ENSURE COVER OVER PIPE IS SUITABLE FOR THE ADOPTED PIPE CLASS.
3. MINIMUM DRAINAGE PIPE SIZE TO BE 3750mm RCP CLASS 4. PIPE SIZE TO BE INCREASED AS REQUIRED TO SUIT THE DESIGN FLOW IN THE TABLE DRAIN.
4. HEADWALLS FOR DRAINAGE PIPE ENDS TO BE PRECAST.
5. DRIVEWAYS CONSTRUCTED ADJACENT TO SEALED ROADS SHALL BE BITUMEN SEALED TO THE BOUNDARY WITH A MINIMUM 2 COAT SEAL AND 14mm/7mm AGGREGATE WITH MINIMUM 300mm OVERLAP OF SEALS. FOR UNSEALED ROADS, THE DRIVEWAY MAY BE UNSEALED IF THE GRADIENT IS LESS THAN 10%. FOR GRADIENTS 10% OR GREATER, THE DRIVEWAY SHALL BE SEALED WITH TWO COAT BITUMEN SEAL.
6. MAINTENANCE OF DRIVEWAYS, INCLUDING THE PIPE CULVERT & HEADWALLS, REMAINS THE RESPONSIBILITY OF THE BENEFITING PROPERTY OWNER.
7. PROVIDE ROCK, GROUTED ROCK OR CONCRETE PROTECTION TO TABLE DRAINS & OUTLETS WHERE PRONE TO SCOUR.
8. DRIVEWAY CROSSFALL SHALL BE ENGINEERED TO ENSURE THAT RUNOFF DOES NOT DISCHARGE ONTO OR ACROSS THE ROAD PAVEMENT. TYPICALLY PROVIDE A SAG POINT OVER CULVERT AS SHOWN ON SECTION A. MAXIMUM 300mm WATER DEPTH OF SURCHARGE AT SAG. CULVERT MAY BE OFFSET FROM DRIVEWAY SAG TO ACHIEVE COVER
9. UNDER NO CIRCUMSTANCES MAY THE DRIVEWAY PROTRUDE BEYOND THE OUTER EDGE OF THE ROAD SHOULDER.

Drawn	B.P.S					
Checked	C.B					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.	
		R-230-09	
RURAL DRIVEWAY VEHICULAR CROSSING		Orig. Size	Revision
		A3	1



NOTES:

1. THIS STANDARD IS A GUIDE ONLY FOR TYPICAL DRIVEWAY PROFILES WITH A TYPICAL MAXIMUM GRADE OF 25% AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. VARIATIONS TO THIS STANDARD DETAIL REQUIRE DETAILED LONGITUDINAL SECTIONS TO BE SUBMITTED.
2. REFER TO STD DRG R-230-01, 03, 05 & 07 FOR PLAN LAYOUTS
3. WHERE INCREASED CHANGES OF GRADE OF INTERNAL DRIVEWAY GRADING IS REQUIRED, THE GRADING SHALL BE IN ACCORDANCE WITH AS2890.1-2004., CLAUSE 2.5.3(d), MAXIMUM CHANGE OF GRADE 12.5% FOR CREST, 15% FOR SAG. GROUND CLEARANCE TO COMPLY WITH AS2890.1-2004 APPENDIX C.
4. CONSIDERATION SHOULD BE GIVEN TO CHECK EXISTING ROAD CROSSFALL TO ENSURE GROUND CLEARANCE ARE ADEQUATE.
5. GARAGE BELOW THE ROAD MUST HAVE OVERLAND FLOW PATH DOWN THE SIDE OF THE GARAGE AND HOUSE

HIGH & LOW DRIVEWAY PROFILE
(FOR 6000mm MINIMUM BUILDING SETBACK)

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

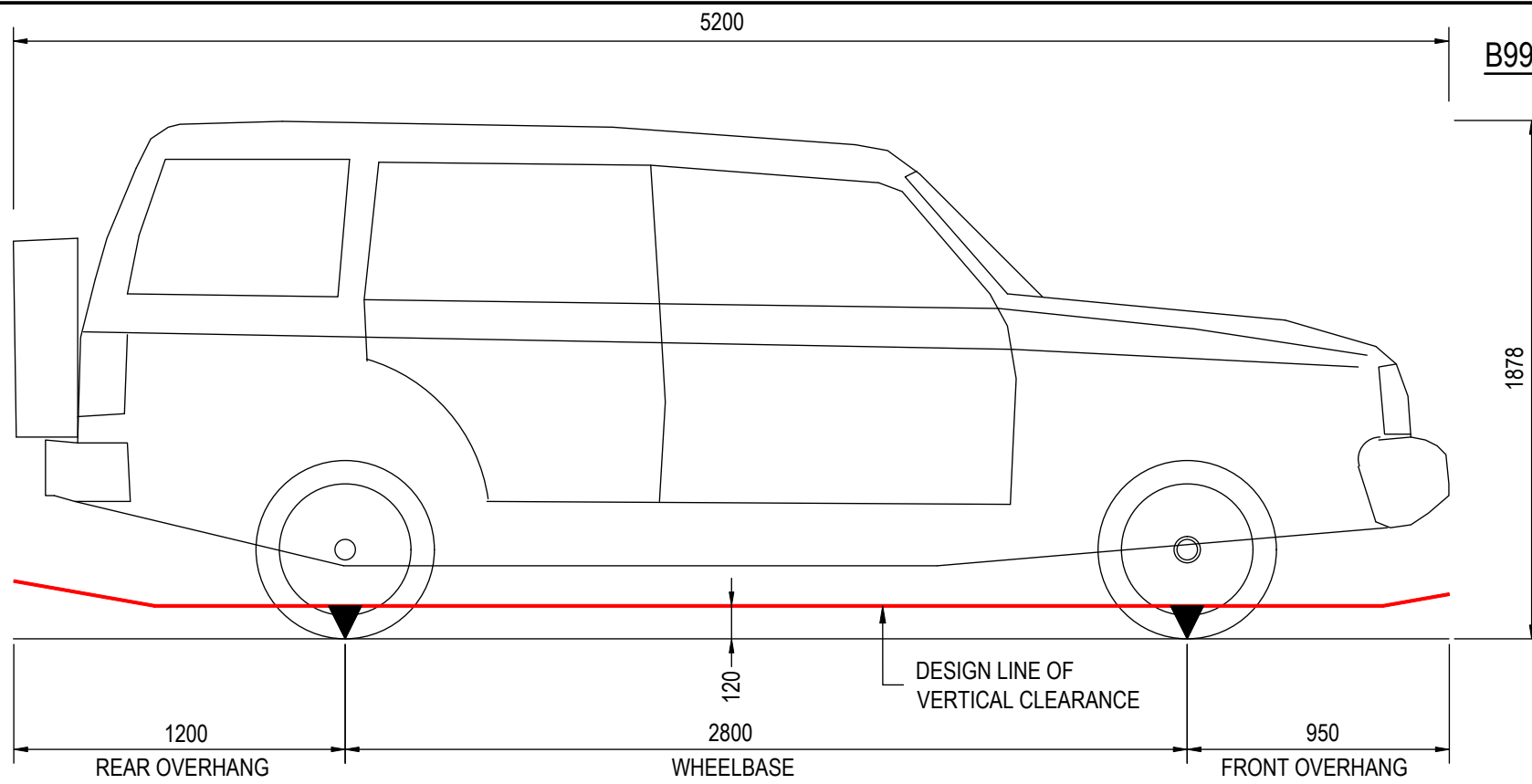
Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS
TYPICAL DRIVEWAY PROFILES

Council Plan No.
R-230-10

Orig. Size
A3

Revision
1



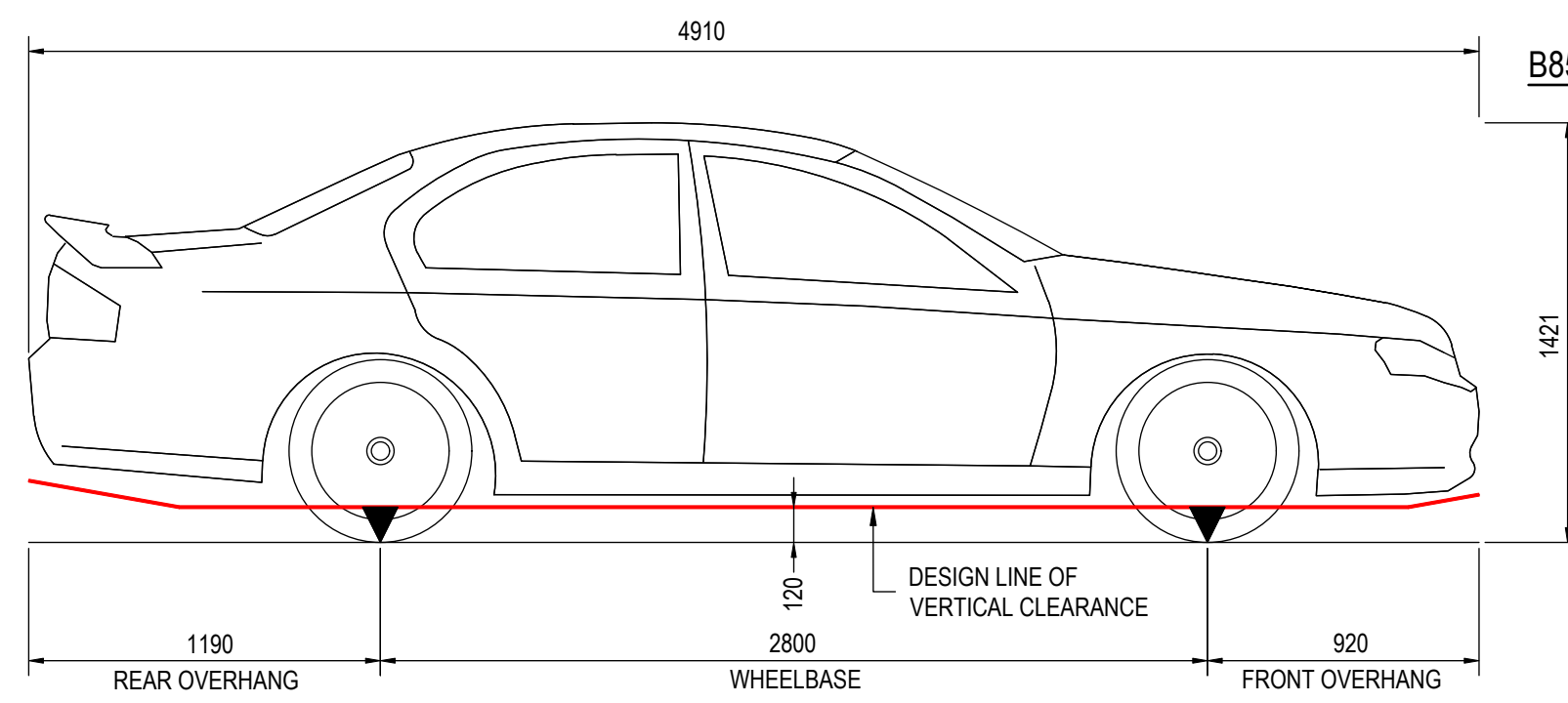
B99 PASSENGER CAR DIMENSIONS FOR VERTICAL CLEARANCE

OVERALL LENGTH	5200mm
OVERALL WIDTH	1940mm
OVERALL BODY HEIGHT	1878mm
MINIMUM BODY GROUND CLEARANCE	272mm
DESIGN MINIMUM GROUND CLEARANCE	120mm
TRACK WIDTH	1840mm

NOTES:

1. PLAN SHOWS B85 & B99 VEHICLE IN ACCORDANCE WITH 'APPENDIX C', AS2890.1-2004 FOR CHECKING VERTICAL CLEARANCE PROFILES AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
2. B85 PERCENTILE VEHICLE VERTICAL CLEARANCE TO BE USED FOR DOMESTIC DRIVEWAYS ONLY.
3. B99 PERCENTILE VEHICLE VERTICAL CLEARANCE TO BE USED IN ALL CASES EXCEPT DOMESTIC DRIVEWAYS.
4. FOR BROWNFILED SITES CONSIDERATION SHOULD BE GIVEN TO CHECK EXISTING ROAD CROSSFALL TO ENSURE GROUND CLEARANCE ARE ADEQUATE.

B99 VEHICLE AS2890.1.2004



B85 PASSENGER CAR DIMENSIONS FOR VERTICAL CLEARANCE

OVERALL LENGTH	4910mm
OVERALL WIDTH	1870mm
OVERALL BODY HEIGHT	1421mm
MINIMUM BODY GROUND CLEARANCE	159mm
DESIGN MINIMUM GROUND CLEARANCE	120mm
TRACK WIDTH	1770mm

B85 VEHICLE AS2890.1.2004

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

TYPICAL DRIVEWAY PROFILES
B85 & B99 PASSENGER VEHICLE
VERTICAL CLEARANCE PROFILE

Council Plan No.	
R-230-11	
Orig. Size	Revision
A3	1

GENERAL NOTES

- ALL FOOTPATHS AND SHARED PATH SHALL BE DESIGNED IN ACCORDANCE WITH AS3600-2009, AS3727.1, RELEVANT AUSTROADS GUIDELINE & TRANSPORT FOR NSW SUPPLEMENTS AND BICYCLE GUIDELINES.
- CONCRETE PATHS FOR NEW DEVELOPMENTS SHALL BE MINIMUM 1500 WIDE & SHARED PATHS MINIMUM 2500 WIDE. FOR EXISTING ESTABLISHED AREAS MATCH EXISTING WIDTHS WITH MINIMUM OF 1200 WIDE PATHS.
- CONCRETE PATH SHALL HAVE A MINIMUM THICKNESS BASED ON TRAFFIC LOADING (SEE TABLE 1):
 - 100mm THICK (PEDESTRIANS & LIGHT VEHICLE, MAX 3 TONNES LOAD)
 - 125mm THICK (PEDESTRIANS & UTILITY VEHICLE, MAX 5 TONNES LOAD)
 - 150mm THICK (PEDESTRIANS & COMMERCIAL VEHICLE, MAX 10 TONNES LOAD)
- WATERPROOF MEMBRANE SHALL BE A 1mm THICK PLASTIC MEMBRANE BETWEEN THE UNDERSIDE OF THE SLAB AND THE BEDDING.
- AT CHANGES IN GRADE GREATER THAN 8% (1:12) PROVIDE A STRIP OF CONTRASTING COLOUR OR TEXTURE FOR THE
- CONSTRUCT FOOTPATH/CYCLEWAY TO HEIGHT OF ADJACENT TELSTRA PITS. ADJUST WATER VALVE COVERS AND BOXES TO MATCH NEW FOOTPATH/CYCLEWAY LEVEL. PROVIDE CONCRETE THICKENING FOR HYDRANT & VALVE COVERS, SEE DETAIL B ON STD DRG. R-240-06
- CITY OF COFFS HARBOUR TO LOCATE WATER SERVICE LINES FOR CONTRACTOR TO SUPPLY AND INSTALL PATH BOXES AS PER DETAIL ON STD DRG. R-240-06
- TRIM ALL TREES WITH OVERHANGING LIMBS 2.4m ABOVE FOOTPATH TO PROVIDE ADEQUATE HEADROOM CLEARANCE AND TO CLEAR EDGE OF FOOTPATH BY MINIMUM 500mm.
- WHERE THE NEW FOOTPATH CROSSES AN EXISTING PROPERTY ACCESS WITHOUT A VEHICULAR CROSSING, THE FOOTPATH THICKNESS IS TO BE ADJUSTED TO :
 - 125mm FOR DOMESTIC DRIVEWAYS. THE FABRIC IS TO BE SL72
 - 150mm FOR COMMERCIAL DRIVEWAYS. THE FABRIC IS TO BE SL82.
 - 180mm FOR INDUSTRIAL DRIVEWAYS. THE FABRIC IS TO BE SL81 TOP AND BOTTOM.

STEEL REINFORCEMENT

- REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON PLASTIC CHAIRS AT NOT GREATER THAN 600mm CENTRES BOTH WAYS IN ACCORDANCE WITH AS2425.2015.
- REINFORCEMENT SHALL BE LAPPED SO THAT A MINIMUM OF TWO CROSS BARS SHALL BE OVERLAPPED AS SHOWN ON STD. DRG. R-240-05, DETAIL E.
- RE-ENTRANT CORNERS SHALL BE REINFORCED WITH TRIMMING BARS TYPICALLY 2 x N12 BARS AT 1000mm LONG AS SHOWN ON STD. DRG. R-240-05, DETAIL D.
- STEEL REINFORCEMENT MESH SHALL BE TERMINATED EITHER SIDE OF THE CONTROL JOINT OR EXPANSION JOINT.

CONCRETE NOTES

- CONCRETE 28 DAY STRENGTH & COVER SHALL BE AS FOLLOWS & IN ACCORDANCE WITH AS3600-2009
 - N32 B1 (1km to 50km FROM COASTLINE); COVER 40 TOP & SIDES, BOTTOM COVER 30 MIN - (A2 EXPOSURE CLASS. FOR THIS FACE)
 - N40 B2 (WITHIN 1km FROM COASTLINE); COVER 45 TOP & SIDES, BOTTOM COVER 30 MIN - (A2 EXPOSURE CLASS. FOR THIS FACE)
- CURING ON ALL CONCRETE IS TO BE ACHIEVED BY KEEPING THE SURFACES CONTINUALLY WET FOR A PERIOD OF THREE DAYS & PREVENTION FOR LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED. CONCRETE SHALL BE PROTECTED FROM TRAFFIC FOR 7 DAYS.
- CONCRETE PATH TO HAVE WOODEN FLOAT & LIGHTLY BROOMED FINISHED PERPENDICULAR TO PEDESTRIAN TRAFFIC WITH TYPICALLY A 50mm SMOOTH EDGE PERIMETER FINISH OR MATCH EXISTING ESTABLISHED AREA PERIMETER EDGE FINISH.
- ALL EXPOSED EDGES TO BE ROUNDED TO A 10mm RADIUS.

CONTRACTION JOINTS

- CONTROL JOINTS SHALL BE FORMED BY EITHER PROPRIETARY FORMED KEY JOINT (FJ) OR SAW CUT/TOOLED CONTROL JOINTS (SC) AS PER DETAILS SHOWN ON PLANS
- CONTROL JOINTS (SC) SHALL BE DESIRABLY MAX. 1.5 x PATH WIDTH CENTRES TO INDUCE CONTROLLED CRACKING. THE JOINTS SHALL BE FORMED IN THE FRESHLY PLACED CONCRETE PERPENDICULARLY (WITHIN 24 HOURS OF THE POUR FOR SAW CUTS.) ALTERNATIVE PROPRIETARY CRACK INDUCERS PROVIDED IN TOP OF SLAB ARE ALSO ACCEPTED.
- CONTROL JOINT & EXPANSION JOINT SPACING NOMINATED ON PLANS IS BASED ON 6000x2400mm STANDARD MESH SIZE.

EXPANSION JOINTS

- EXPANSION SHALL BE CONSTRUCTED FLUSH WITH THE TOP OF CONCRETE. PRIOR TO THE INITIAL SET OF THE CONCRETE THE JOINT SHALL BE SPONGED TO REMOVE ANY CONCRETE SLURRY THAT HAS ACCUMULATED ACROSS THE JOINT.
- DOWELS SHALL BE GRADE 250 SMOOTH BAR WITH BAR DIAMETER, SPACING & LENGTH TO SUIT LOADING AS SHOWN ON PLANS.
- DOWEL DEBOND-BREAKING COMPOUND AND END CAP FOR 10mm EXPANSION MAY BE REPLACED WITH A PROPRIETARY DOWEL SLEEVE. PROPRIETARY EXPANSION JOINT SHALL BE VERTICAL TYPE.

ISOLATION JOINTS

- ISOLATION JOINTS SHALL BE PROVIDED WHERE THE PATHS ADJOIN ANOTHER STRUCTURAL ELEMENT.

EARTHWORKS

- SUBGRADE: ANY SOFT, WEAK, SATURATED OR OTHERWISE UNSUITABLE MATERIAL SHOULD BE REMOVED AND REPLACED BY APPROVED SUITABLY COMPACTED MATERIAL FROM THE SITE OR BY IMPORTED ROAD BASE. IT SHALL BE COMPACTED IN LAYERS USING A RAMMER PLATE OR UPRIGHT COMPACTOR.
- EARTHWORKS :
 - FILL MATERIAL SHALL BE CLEAN, WELL GRADED (ALD>50mm) WITH LIMITED PLASTICITY (PI<20), & FREE OF ORGANIC MATTER.
 - FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 200mm LOOSE THICKNESS AND COMPACTED TO 95% STANDARD.
 - SIDE BATTER SLOPES ARE TO BE TYPICALLY 6H:1V, WITH MAXIMUM 4H:1V FOR MAINTENANCE MOWING.
 - THE TOP 100mm OF ANY FILL AREA OUTSIDE OF THE FOOTPATH SHALL BE TOPSOILED.
- RESTORATION :
 - ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL LINE AND LEVEL.
 - THE RESTORED SURFACE SHALL BE FREE OF ALL STONES (EXCEEDING 20mm ALD)
 - ALL DISTURBED SURFACES OR AREAS OF FILL ARE TO BE TURFED OR SEEDED WITH THE FOLLOWING MIXTURE OF GRASS AND FERTILIZER PER 100m² : COUCH 1 Kg, TURF RYE 2 Kg, FERTILIZER 5 Kg (G5/ ANCHOR OR SIMILAR APPROVED). TURF OR GRASS TO FINISH FLUSH TO ADJACENT PATH AS SHOWN ON DETAIL B, STD DRG. R-240-05

EXPOSURE CLASSIFICATION & CONCRETE STRENGTH TABLE 4.3, AS3600

EXPOSURE CLASSIFICATION	CONCRETE STRENGTH GRADE	LOCATION
B1	N32	1 TO 50km FROM COASTLINE
B2	N40	WITHIN 1km OF COASTLINE

COVER TO COMPLY WITH TABLE 4.10.3.2, AS3600

AS3600 (EXP. CLASS)	REQUIRED COVER (mm) CHARACTERISTIC STRENGTH	
	32Mpa	40Mpa
B1	40	30
B2		45

SLUMP	AGG. MAX. SIZE	CEMENT TYPE	AS3600 (EXP. CLASS)	ADMIX.
80	20	A	32 Mpa (B1) 40 Mpa (B2)	NIL

TABLE 1 - PATH THICKNESS, REINFORCEMENT DETAILS & MAXIMUM LOAD

SLAB (T)mm THICKNESS	DOWEL SIZE (mm)	Max. DOWEL SPACING (mm)	Min. DOWEL LENGTH (mm)	MESH	MAXIMUM LOAD CRITERIA REFERENCE: AS3727.1
100	R12Ø	400	300	SL72	PEDESTRIANS / LIGHT VEHICLE (3t. Max)
125	R16Ø	300	350	SL72	PEDESTRIANS & UTILITY VEHICLE (5t. Max)
150	R20Ø	300	400	SL82	PEDESTRIANS & COMM. VEHICLE (10t. Max)

FOOPATHS AND SHARED PATH GRADIENTS

PATHS IN ROAD RESERVES				PATHS NOT IN ROAD RESERVES			
CROSSFALL		LONGITUDINAL GRADE		CROSSFALL		LONGITUDINAL GRADE	
MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
2%	2.5%	NEW ROADS		2%	2.5%	1%	5% *
		1%	5%			LANDING SPACING	
		ADOPT GRADE OF EXISTING ROADS				< 3%	N/A
		1% DESIRABLE 0.3% ABSOLUTE	10% DESIRABLE 15% ABSOLUTE			3%	25m MAX.
						5%	15m MAX.
						7%+	9m MAX.

* PATHS WITH GRADIENTS STEEPER THAN 5% ARE TO BE CONSIDERED AS RAMPS FOR DESIGN PURPOSES. CONSIDER THE USE OF HANDRAILS FOR PATHS NOT IN ROAD RESERVE, WHICH ARE CONSIDERED AS RAMPS, IN ACCORDANCE WITH AS1428.1

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

CONCRETE PATH GENERAL NOTES

Council Plan No.

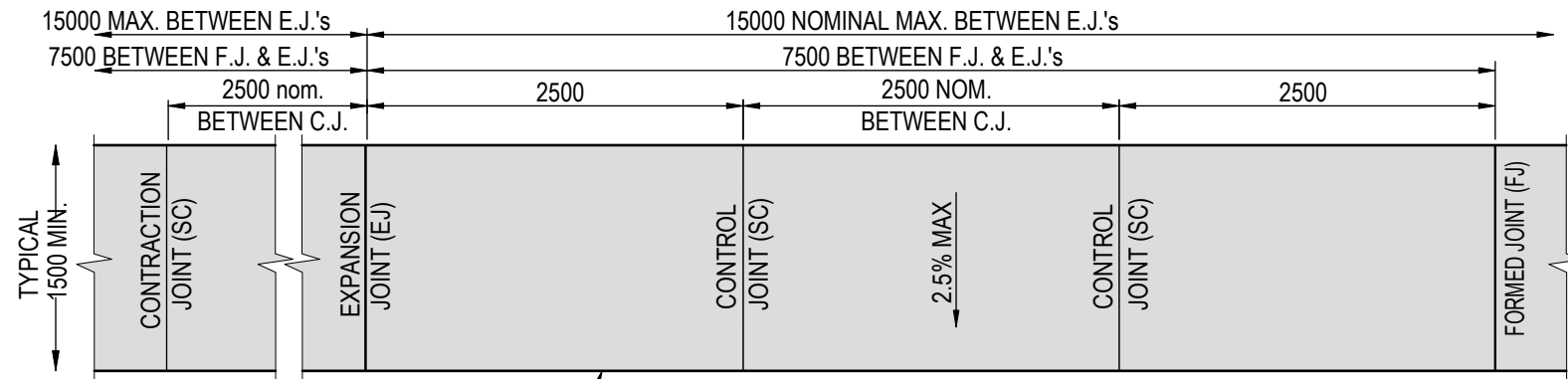
R-240-01

Orig. Size

Revision

A3

1

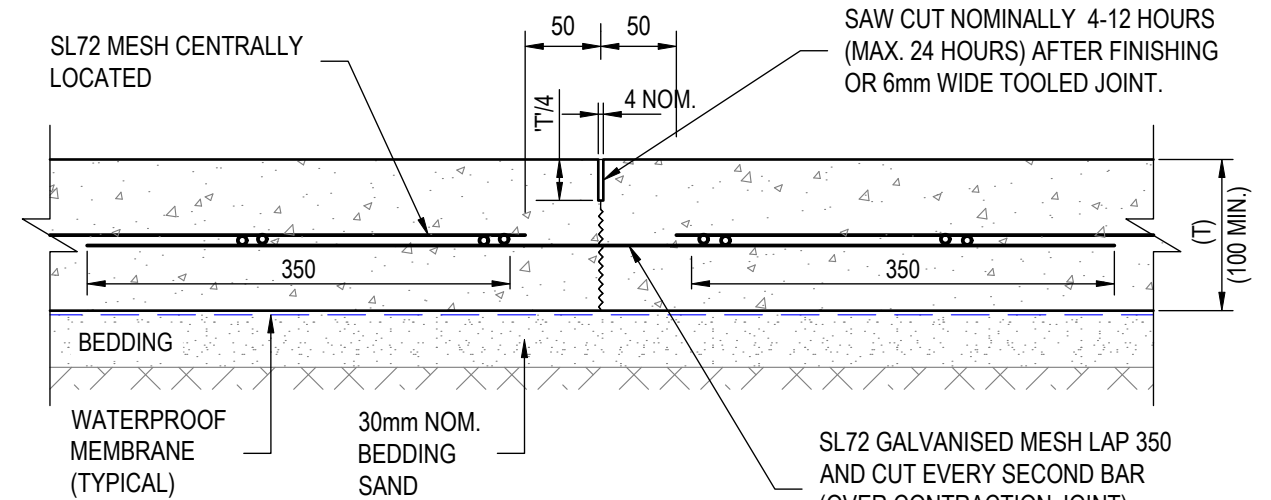


TYPICAL 50mm SMOOTH EDGE PERIMETER FINISH OR MATCH EXISTING ESTABLISHED AREA PERIMETER EDGE FINISH

1500 WIDE PATH

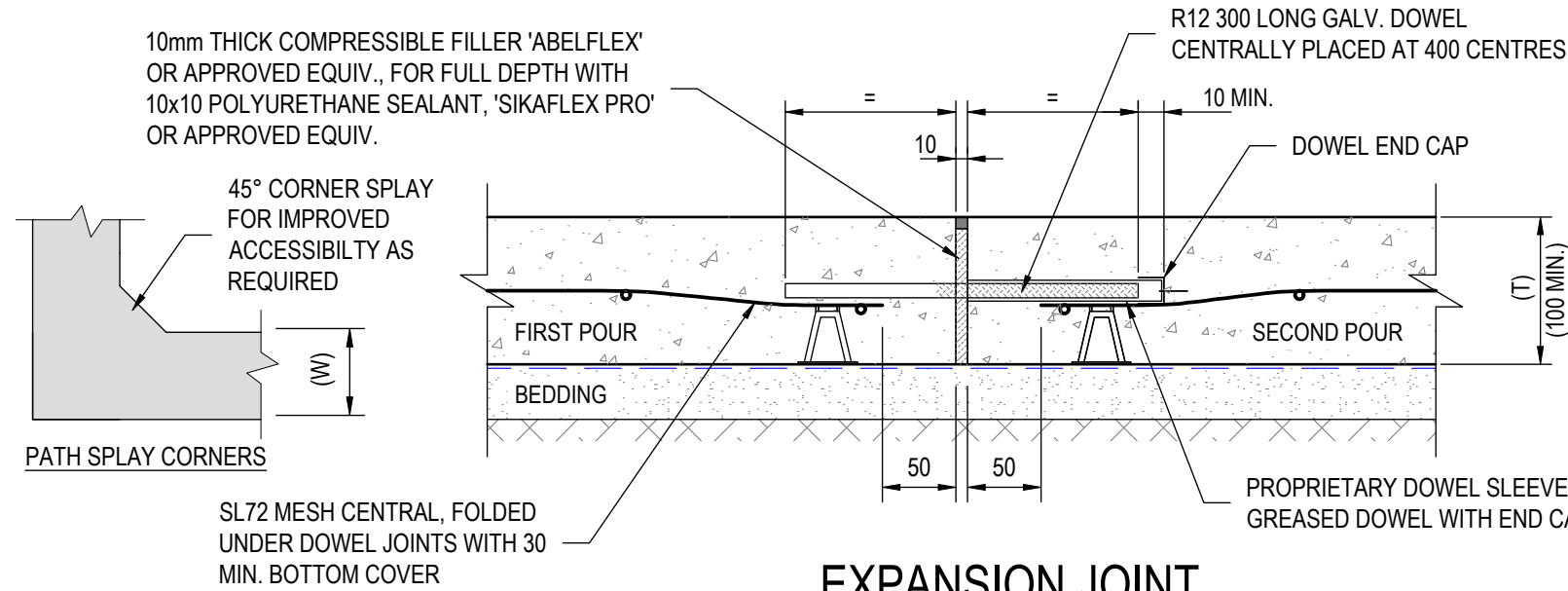
(SEE TABLE 1 FOR JOINT SPACINGS FOR OTHER PATH WIDTHS)

JOINT SPACING FOR PATH HAS BEEN ADOPTED BASED ON OPTIMISING A STANDARD 6000x2400mm MESH SIZE

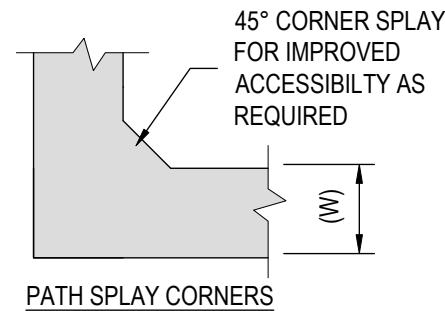


CONTROL JOINT (SC)

SAW CUT NOMINALLY 4-12 HOURS (MAX. 24 HOURS) AFTER FINISHING OR 6mm WIDE TOOLED JOINT.
SL72 GALVANISED MESH LAP 350 AND CUT EVERY SECOND BAR (OVER CONTRACTION JOINT) BOTTOM COVER 30 MIN.

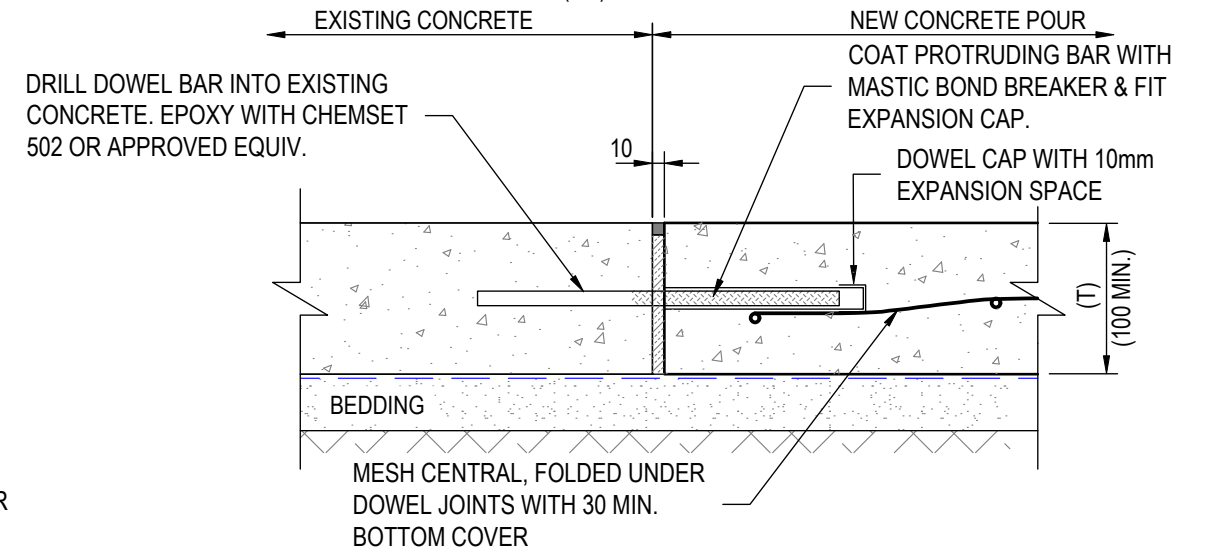


EXPANSION JOINT (EJ)



PATH SPLAY CORNERS

SL72 MESH CENTRAL, FOLDED UNDER DOWEL JOINTS WITH 30 MIN. BOTTOM COVER



DOWEL JOINT TO EXISTING CONCRETE (DJ)

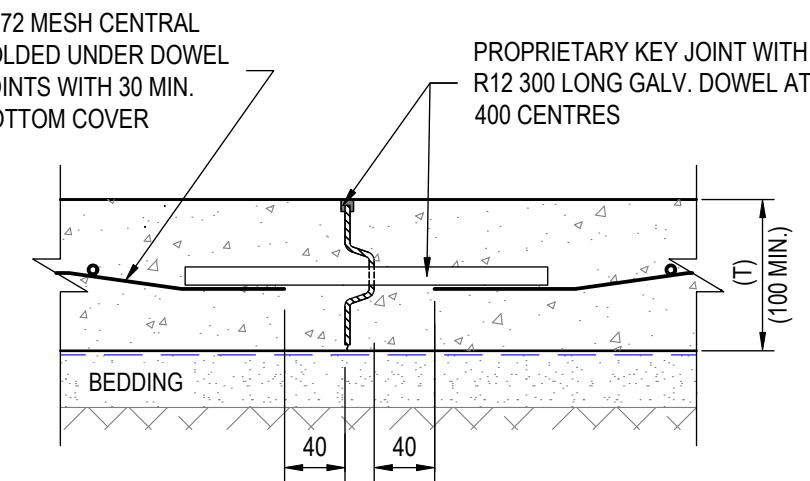
TABLE 1 - NOMINAL CONCRETE JOINT SPACINGS

PATH WIDTH (W)	CONTRACTION JOINTS		EXPANSION (EJ) JOINT SPACING
	CONTROL JOINT (SC)	FORMED JOINT (FJ)	
1200 *	2000 nom.	6000	12000
1500	2500 nom.	7500	15000
2000	2500 nom.	7500	15000

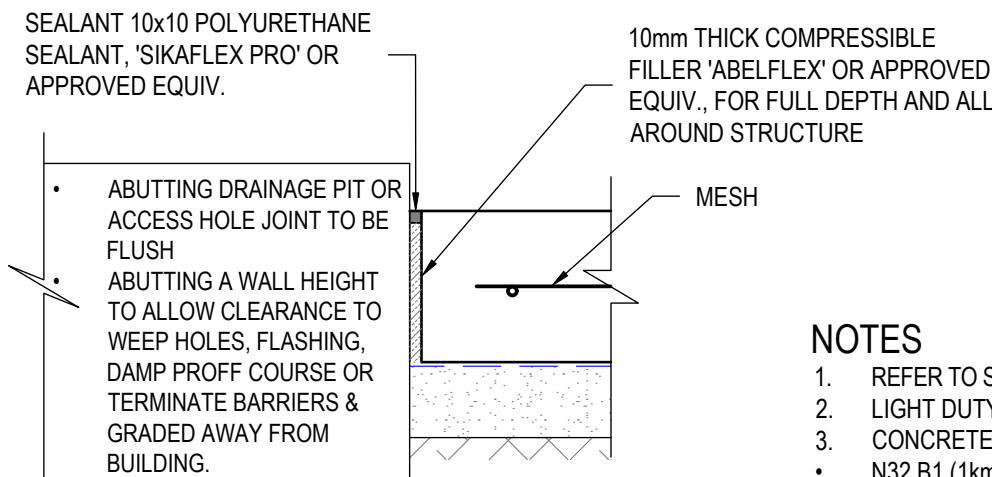
* 1200 MINIMUM PATH WIDTH FOR INFILL OF EXISTING PATHS IN ESTABLISHED AREAS

NOTES

- REFER TO STD. DRG. R-240-01 FOR GENERAL CONCRETE PATH NOTES
- LIGHT DUTY LOADING IS FOR PEDESTRIAN USE ONLY AND LIGHT VEHICLES UP TO 3 TONNES.
- CONCRETE 28 DAY STRENGTH & COVER SHALL BE AS FOLLOWS & IN ACCORDANCE WITH AS3600-2009
 - N32 B1 (1km to 50km FROM COASTLINE); COVER 40 TOP & SIDES, BOTTOM COVER 30 MIN.
 - N40 B2 (WITHIN 1km FROM COASTLINE); COVER 45 TOP & SIDES, BOTTOM COVER 30 MIN.



FORMED JOINT (FJ)



TYPICAL ISOLATION JOINT (IJ)

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

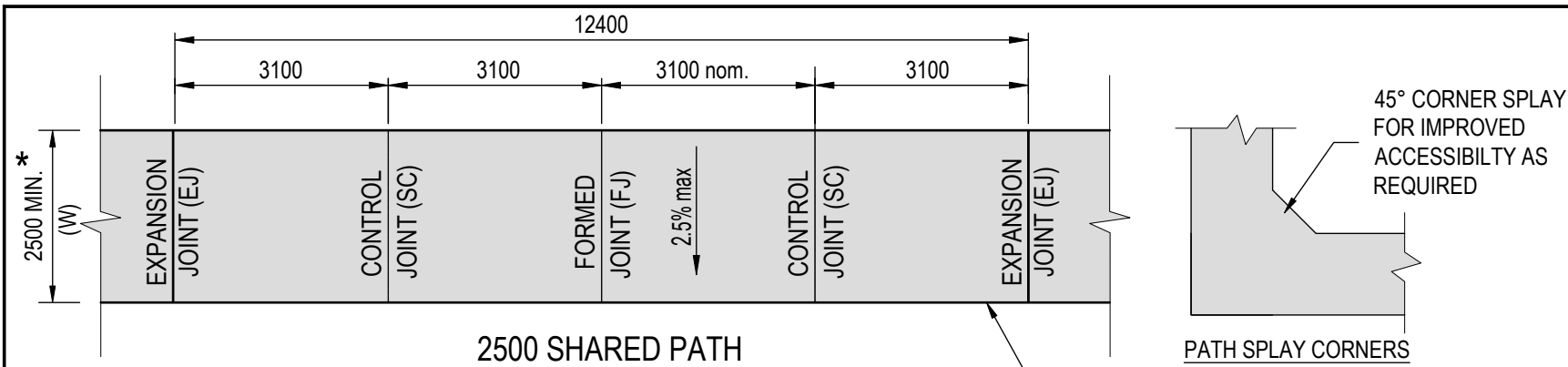


Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

CONCRETE PATH DETAILS
TYPE 1 - LIGHT DUTY LOADING

Council Plan No.	
R-240-02	
Orig. Size	Revision
A3	1



2500 SHARED PATH

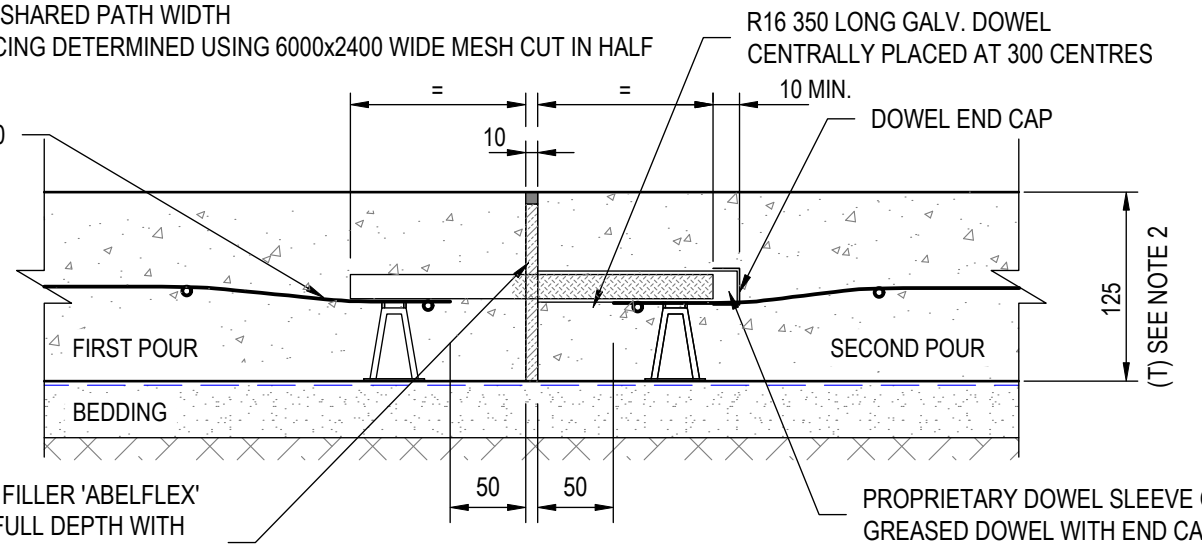
TABLE 1 - NOMINAL CONCRETE JOINT SPACINGS

PATH WIDTH (W)	CONTRACTION JOINTS		EXPANSION (EJ) JOINT SPACING
	CONTROL JOINT (SC)	FORMED JOINT (FJ)	
2500 *	3100 nom. **	6200	12400
3000 ⁽³⁾	4500 max.	9000	18000
3500 ⁽³⁾	5000 max.	10000	20000

* 2500 MINIMUM SHARED PATH WIDTH

** NOMINAL SPACING DETERMINED USING 6000x2400 WIDE MESH CUT IN HALF

SL72 MESH CENTRAL, FOLDED UNDER DOWEL JOINTS WITH 30 MIN. BOTTOM COVER



EXPANSION JOINT (EJ)

10mm THICK COMPRESSIBLE FILLER 'ABELFLEX' OR APPROVED EQUIV., FOR FULL DEPTH WITH 10x10 POLYURETHANE SEALANT, 'SIKAFLEX PRO' OR APPROVED EQUIV.

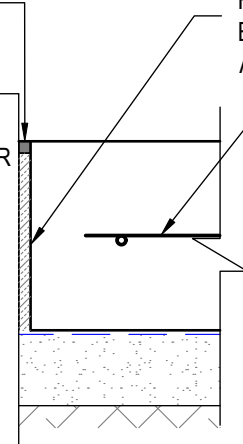
SEALANT 10x10 POLYURETHANE SEALANT, 'SIKAFLEX PRO' OR APPROVED EQUIV.

10mm THICK COMPRESSIBLE FILLER 'ABELFLEX' OR APPROVED EQUIV., FOR FULL DEPTH AND ALL AROUND STRUCTURE

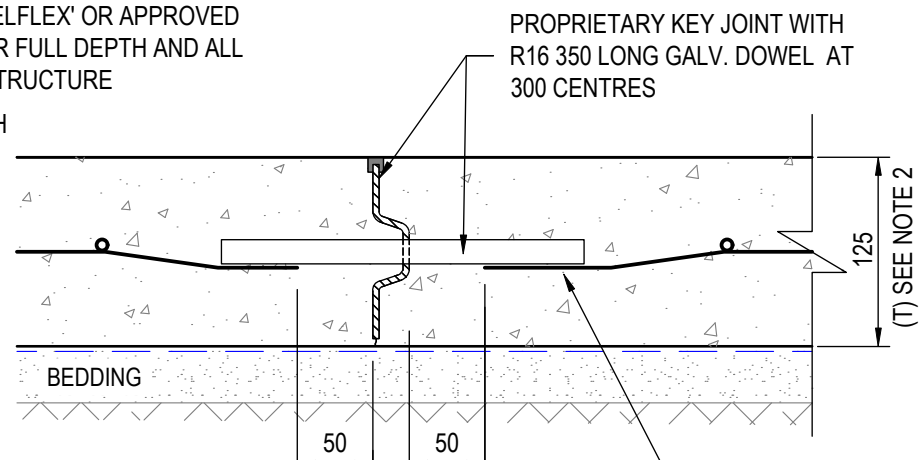
PROPRIETARY KEY JOINT WITH R16 350 LONG GALV. DOWEL AT 300 CENTRES

TYPICAL ISOLATION JOINT (IJ)

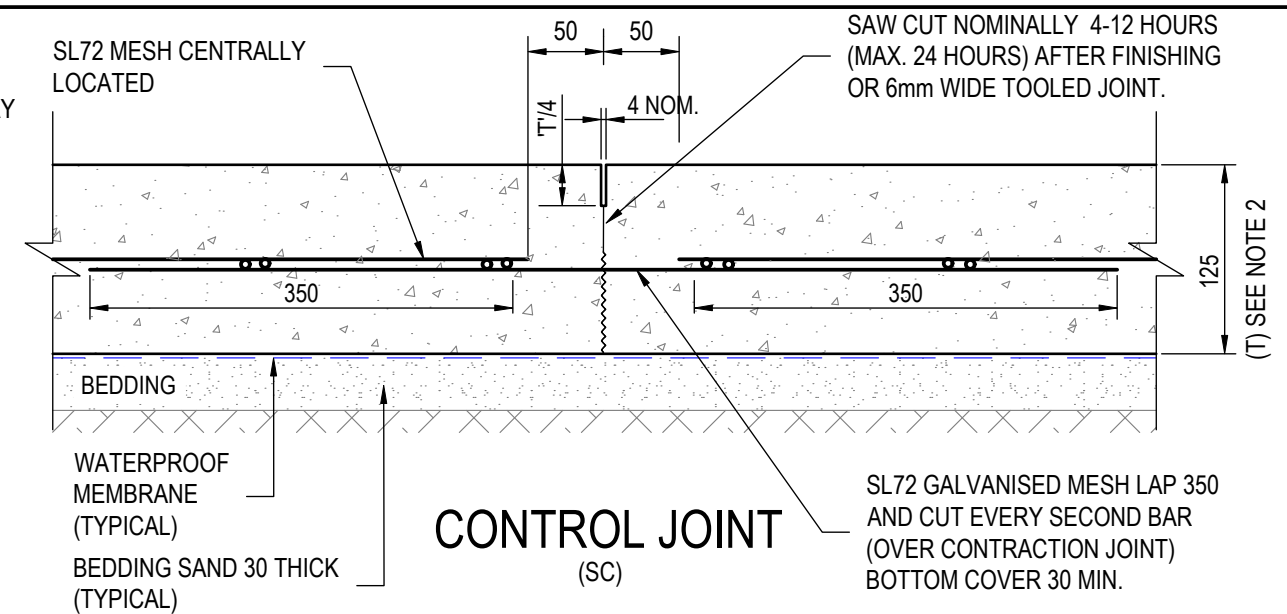
ABUTTING DRAINAGE PIT OR ACCESS HOLE JOINT TO BE FLUSH
ABUTTING A WALL HEIGHT TO ALLOW CLEARANCE TO WEEP HOLES, FLASHING, DAMP PROFF COURSE OR TERMINATE BARRIERS & GRADED AWAY FROM BUILDING.



FORMED JOINT (FJ)

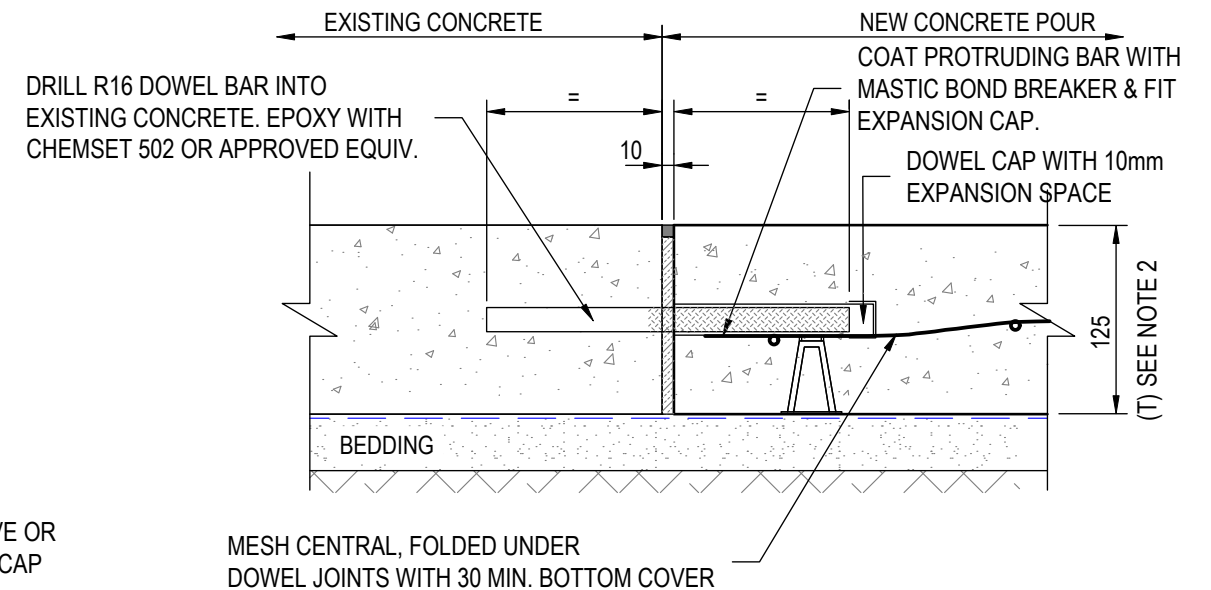


SL72 MESH CENTRAL FOLDED UNDER DOWEL JOINTS WITH 30 MIN. BOTTOM COVER



CONTROL JOINT (SC)

SL72 GALVANISED MESH LAP 350 AND CUT EVERY SECOND BAR (OVER CONTRACTION JOINT) BOTTOM COVER 30 MIN.



DOWEL JOINT TO EXISTING CONCRETE (DJ)

TABLE 1 - PATH THICKNESS, REINFORCEMENT & MAX. LOADING

SLAB (T)mm THICKNESS	DOWEL TYPE	DOWEL SIZE (mm)	Max. DOWEL SPACING (mm)	Min. DOWEL LENGTH (mm)	MAXIMUM LOAD CRITERIA	MESH	BEDDING mm
125 (SEE NOTE 2)	ROUND	16Ø	300	350	PEDESTRIANS & UTILITY VEHICLE (5t. Max)	SL72	30mm MIN

NOTES

- REFER TO STD. DRG. R-240-01 FOR GENERAL CONCRETE PATH NOTES
- INTERMEDIATE DUTY LOADING IS FOR PEDESTRIANS AND VEHICLES UP TO 5 TONNES.
- REFER TO TABLE 2-D TO THE CITY'S TECHNICAL SPECIFICATION FOR MINIMUM PATHS WIDTHS FOR REGIONAL & RECREATIONAL PATHS.
- CONCRETE 28 DAY STRENGTH & COVER SHALL BE AS FOLLOWS & IN ACCORDANCE WITH AS3600-2009
 - N32 B1 (1km to 50km FROM COASTLINE); COVER 40 TOP & SIDES, BOTTOM COVER 30 MIN.
 - N40 B2 (WITHIN 1km FROM COASTLINE); COVER 45 TOP & SIDES, BOTTOM COVER 30 MIN.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Aprd.	Date

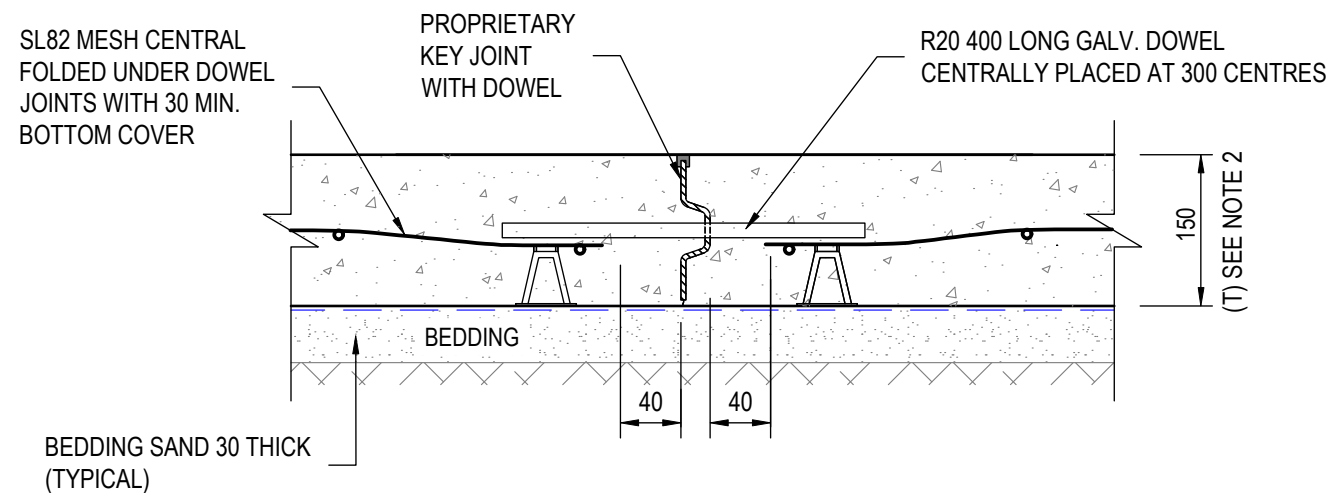


Locked Bag 155
Coffs Harbour, NSW, 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

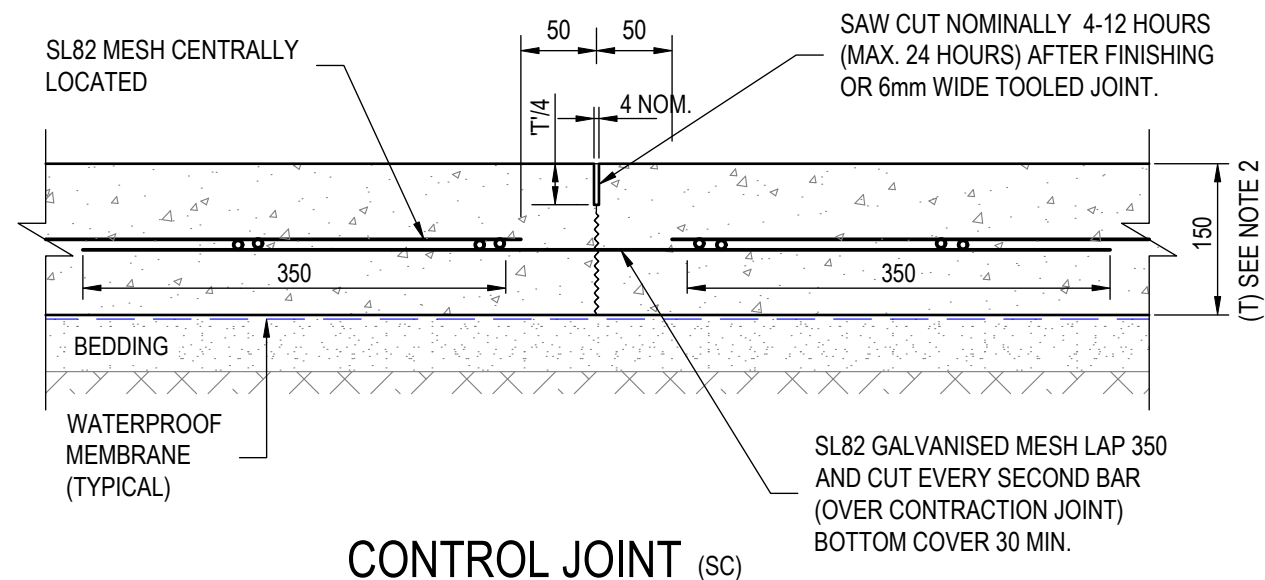
STANDARD DRAWINGS

CONCRETE PATH DETAILS
TYPE 2 - INTERMEDIATE DUTY LOADING

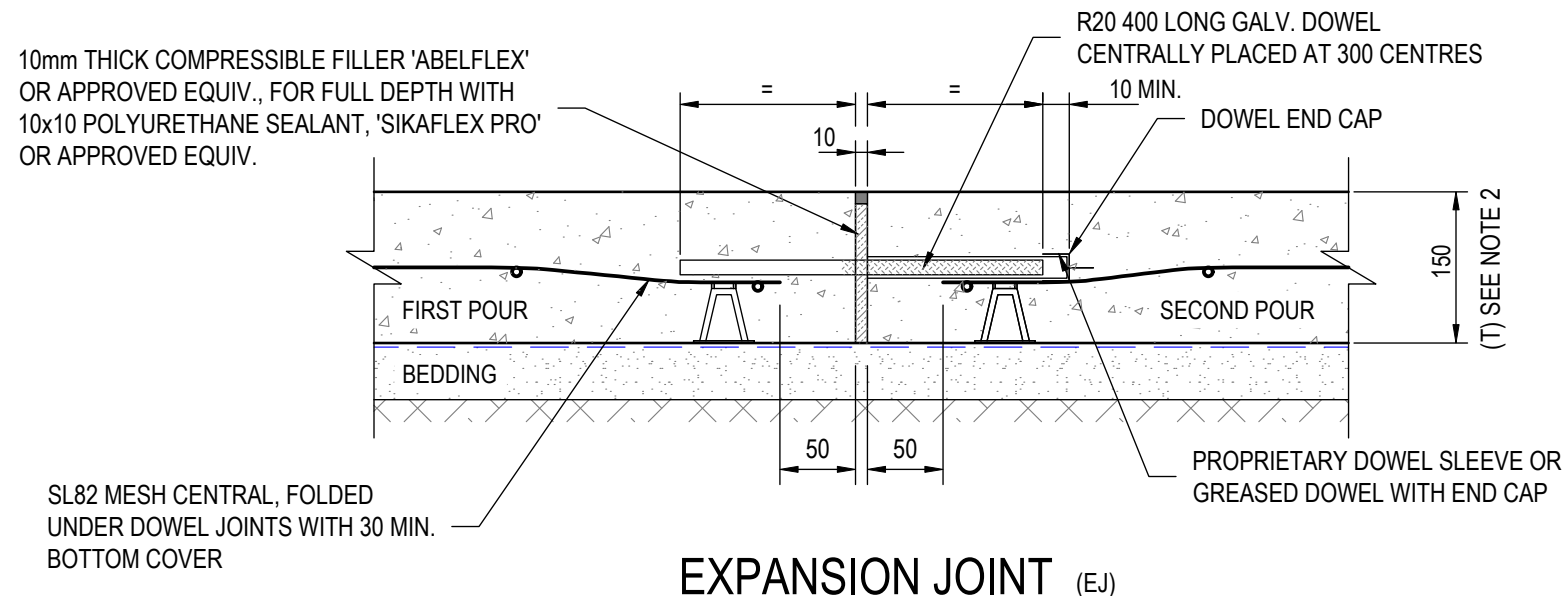
Council Plan No.	
R-240-03	
Orig. Size	Revision
A3	1



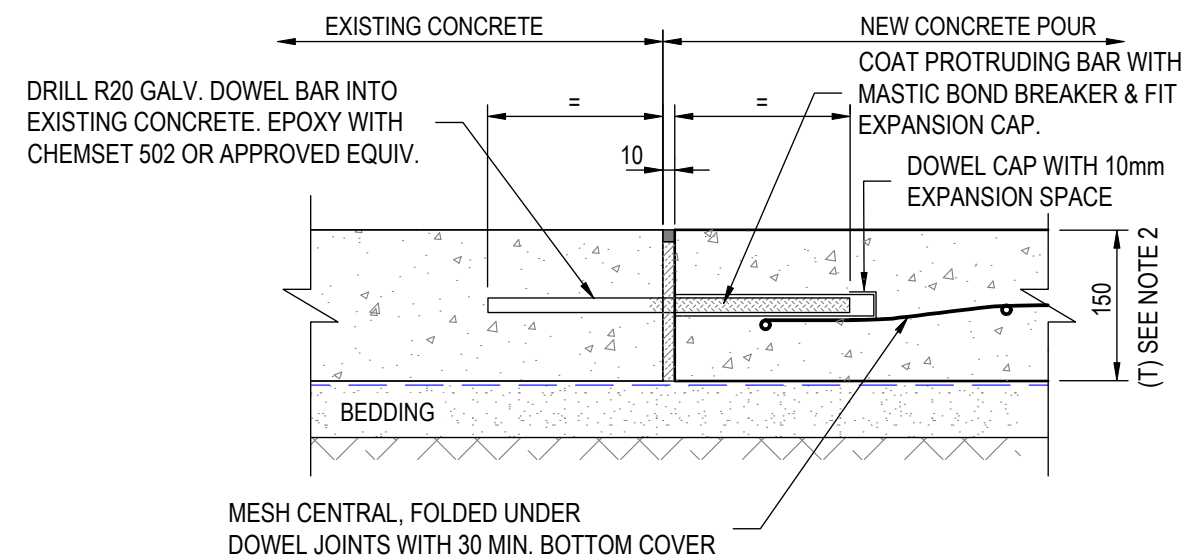
FORMED JOINT (FJ)



CONTROL JOINT (SC)



EXPANSION JOINT (EJ)



DOWEL JOINT TO EXISTING CONCRETE (DJ)

NOTES

- REFER TO STD. DRG. R-240-01 FOR GENERAL CONCRETE PATH NOTES
- HEAVY DUTY LOADING IS FOR COMMERCIAL VEHICLES UP TO 10 TONNES.
- CONCRETE 28 DAY STRENGTH & COVER SHALL BE AS FOLLOWS & IN ACCORDANCE WITH AS3600-2009
 - N32 B1 (1km to 50km FROM COASTLINE); COVER 40 TOP & SIDES, BOTTOM COVER 30 MIN.
 - N40 B2 (WITHIN 1km FROM COASTLINE); COVER 45 TOP & SIDES, BOTTOM COVER 30 MIN.

TABLE 1 - PATH THICKNESS, REINFORCEMENT & MAX. LOADING

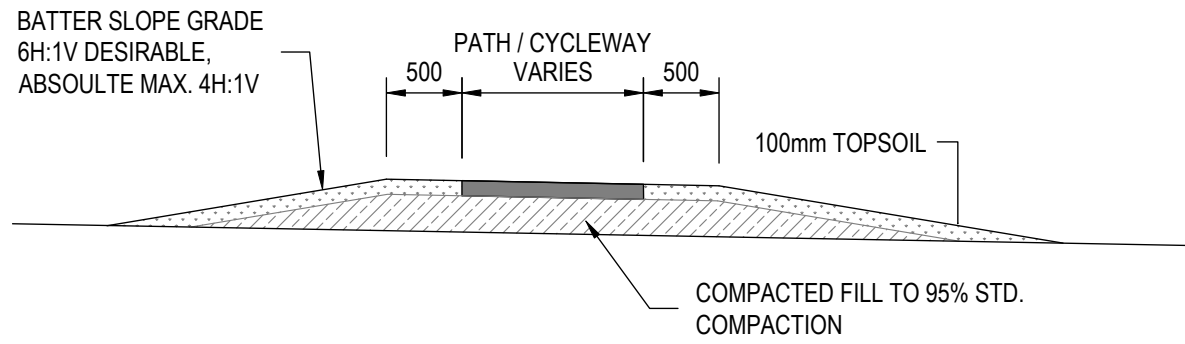
SLAB (T)mm THICKNESS	DOWEL TYPE	DOWEL SIZE (mm)	Max. DOWEL SPACING (mm)	Min. DOWEL LENGTH (mm)	MAXIMUM LOAD CRITERIA	MESH	BEDDING mm
150 (SEE NOTE 2)	ROUND	20Ø	300	400	PEDESTRIANS & COMMERCIAL VEHICLE (10t. Max)	SL82	30 MIN.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Aprd.	Date



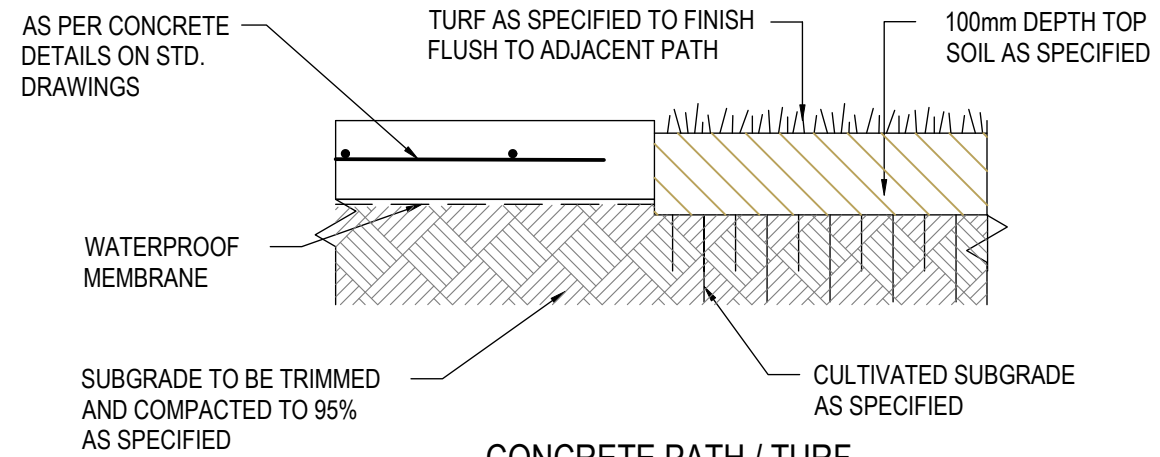
STANDARD DRAWINGS
CONCRETE PATH DETAILS
TYPE 3 - HEAVY DUTY LOADING

Council Plan No.	
R-240-04	
Orig. Size	Revision
A3	1



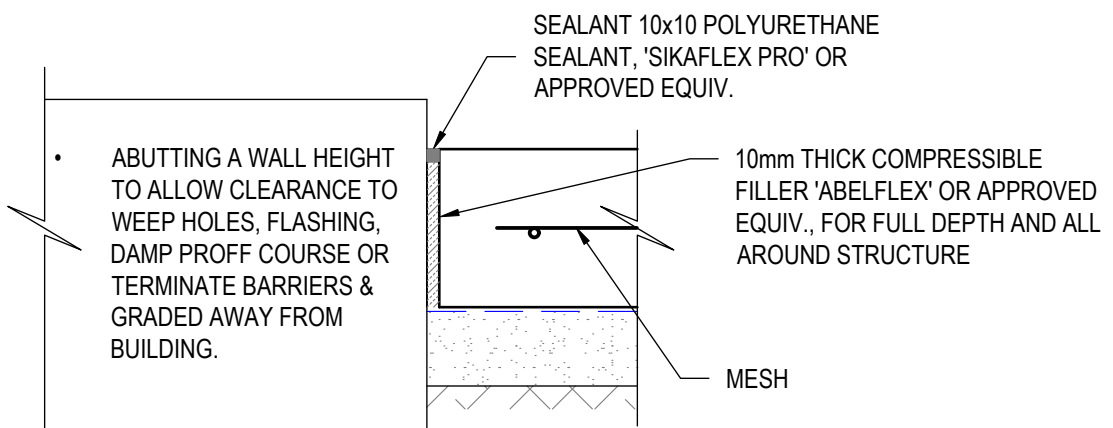
TYPICAL FOOTPATH CROSS-SECTION
(WHERE NO KERB & GUTTER EXIST.)

DETAIL A
N.T.S.



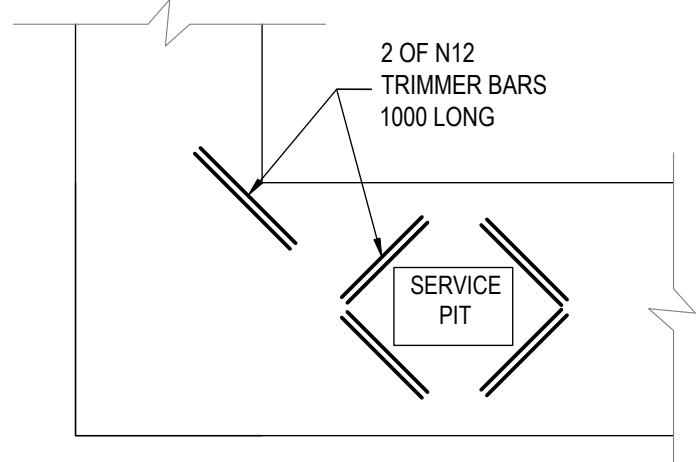
CONCRETE PATH / TURF

DETAIL B
SCALE 1:10



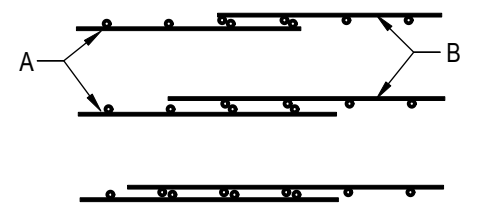
TYPICAL FOOTPATH ISOLATION JOINT ADJOINING BUILDING

DETAIL C
N.T.S.



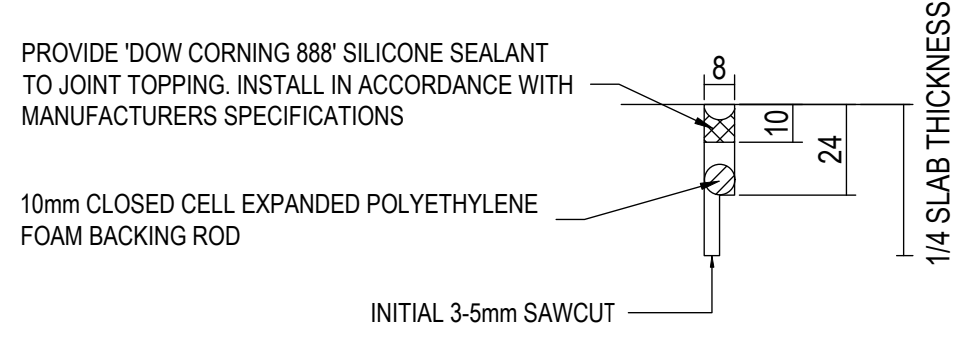
TYPICAL TRIMMER BARS AT RE-ENTRANT CORNERS & SERVICE PITS

DETAIL D
N.T.S.



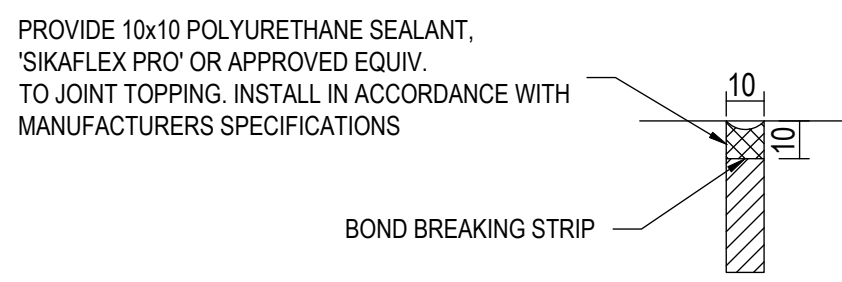
LAPPING STEEL REINFORCEMENT MESH
MINIMUM OF TWO CROSS BARS SHALL BE OVERLAPPED

DETAIL E
N.T.S.



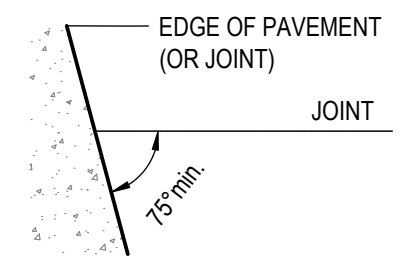
TYPICAL SAW JOINT SEALANT

DETAIL F
N.T.S.



TYPICAL EXPANSION JOINT SEALANT

DETAIL G
N.T.S.



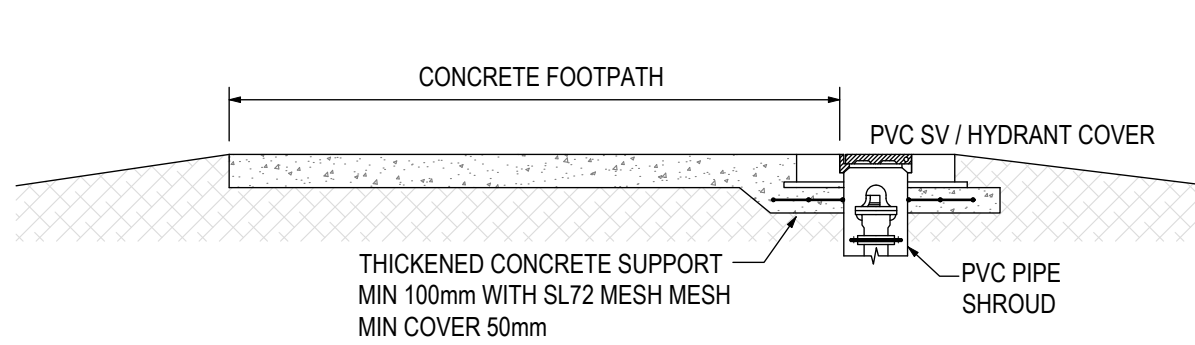
TYPICAL MINIMUM ANGLE OF JOINTS

Drawn	B.P.S.					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

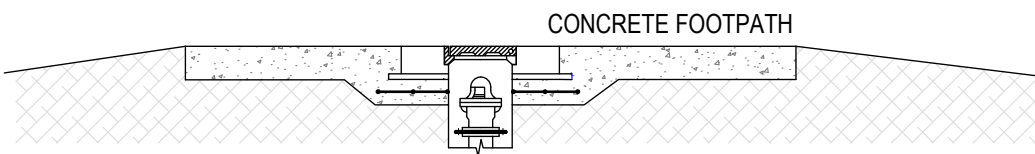
Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS
TYPICAL CONCRETE PATH DETAILS

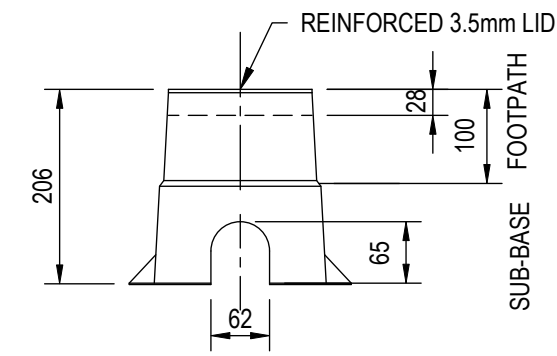
Council Plan No.	
R-240-05	
Orig. Size	Revision
A3	1



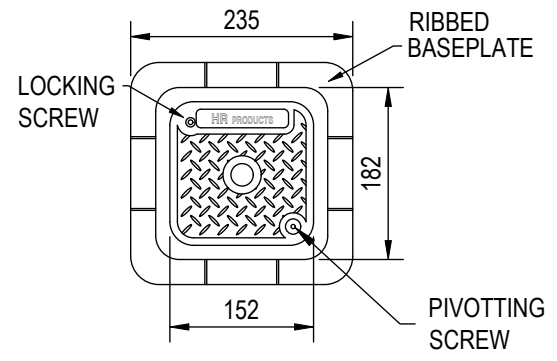
PROVIDE THICKENING FOR SV or HY COVERS AS SHOWN



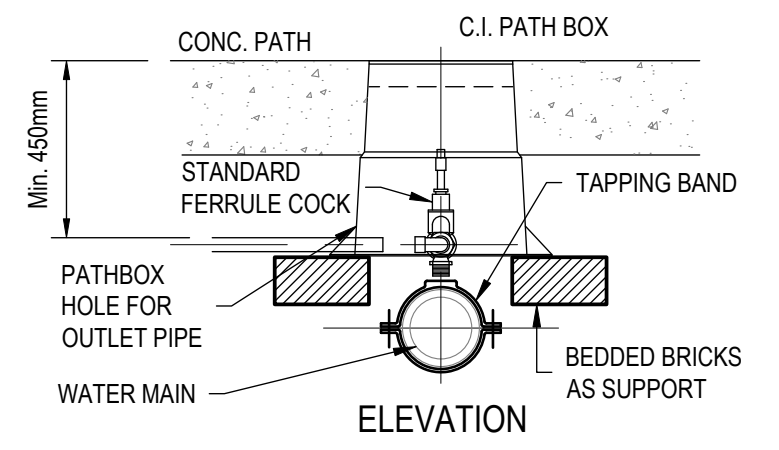
HYDRANT OR VALVE IN CONCRETE FOOTPATHS
DETAIL B



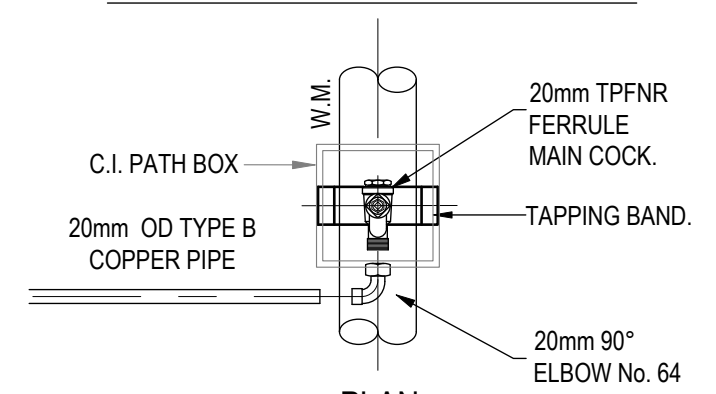
ELEVATION



PLAN
TYPICAL PATH BOX
DETAIL A



ELEVATION



PLAN
WATER SERVICE - TYPICAL (20mm)
CONNECTION UNDER CONC. PATH

NOTES

1. REFER TO STD. DRG. W-400-04 FOR TYPICAL STOP VALVE DETAILS.
2. REFER TO STD. DRG. W-400-06 FOR TYPICAL HYDRANT DETAILS
3. THE CITY OF COFFS TO LOCATE ALL WATER SERVICE LINES IMPACTED BY CONCRETE WORKS. THE CONTRACTOR TO SUPPLY AND INSTALL PATH BOXES AS PER DETAIL.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

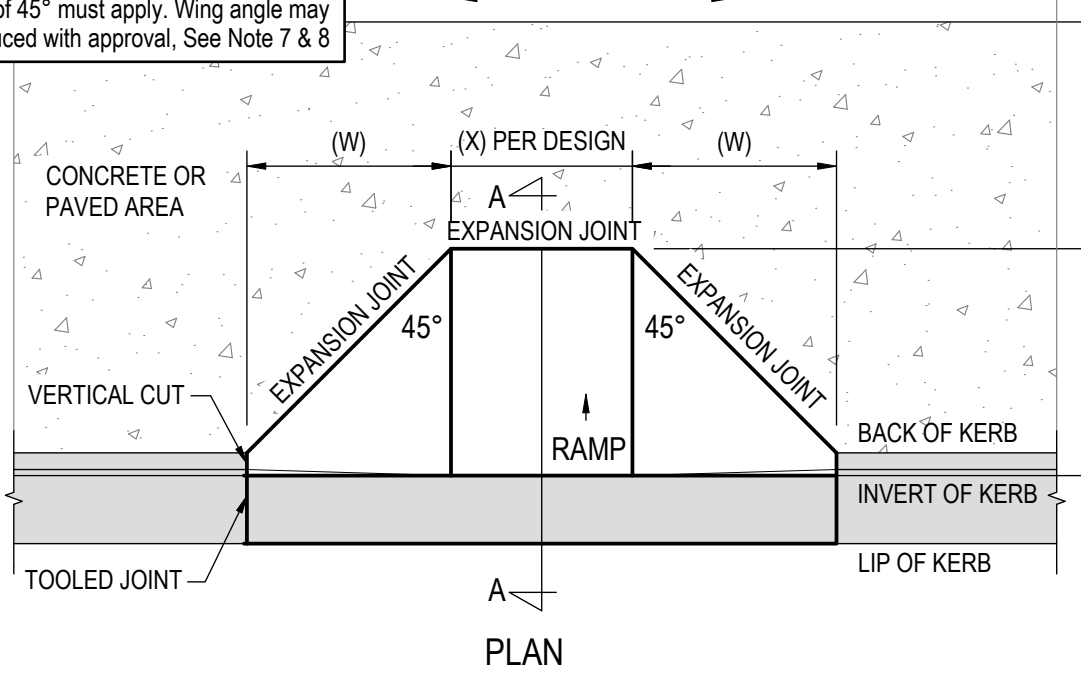
STANDARD DRAWINGS

VALVE & HYDRANT COVERS IN CONCRETE PATH

Council Plan No.	
R-240-06	
Orig. Size	Revision
A3	1

Example 1. Where area is concreted from back of kerb to boundary and pedestrian movements are typically parallel to kerb line, the maximum wing angle of 45° must apply. Wing angle may only be reduced with approval. See Note 7 & 8

MINIMUM 1500 FROM TOP OF RAMP TO ANY OBSTRUCTION (AS 1428.1)
2000 AREA FREE OF OBSTRUCTION

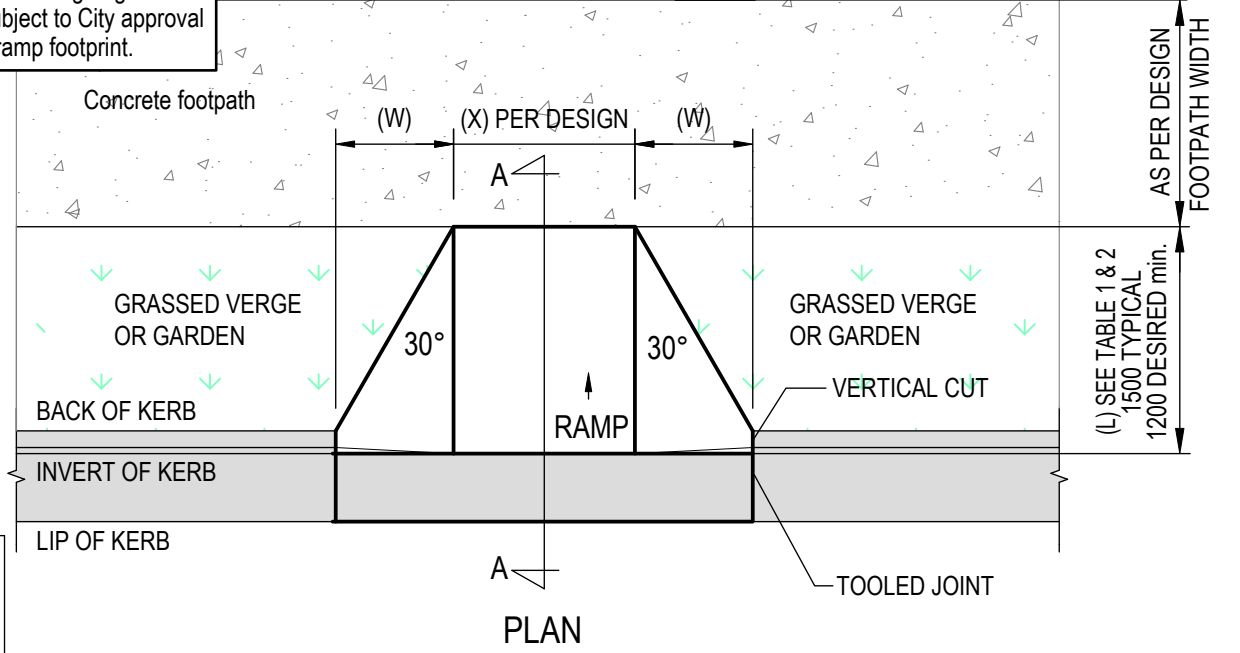


STANDARD KERB RAMP - TYPE 1

TACTILE INDICATORS ARE ONLY REQUIRED IF RAMP IS LESS THAN 1:8.5 (11.76%) OR THE CHANGE OF GRADE AT TOP OF RAMP AND LANDING IS < 10.5%, SEE STD DRG R-240-11 FOR INSTALLATION DETAILS OF TGSi.

Example 2. In residential areas only, where concrete path is offset from back of kerb and separated by grass verge or garden, a minimum wing angle of 30° may be applied subject to City approval to reduce ramp footprint.

2000 AREA FREE OF OBSTRUCTION
MINIMUM 1500 FROM TOP OF RAMP TO ANY OBSTRUCTION (AS 1428.1)



MINIMUM KERB RAMP - TYPE 1

(SUBJECT TO CITY APPROVAL)

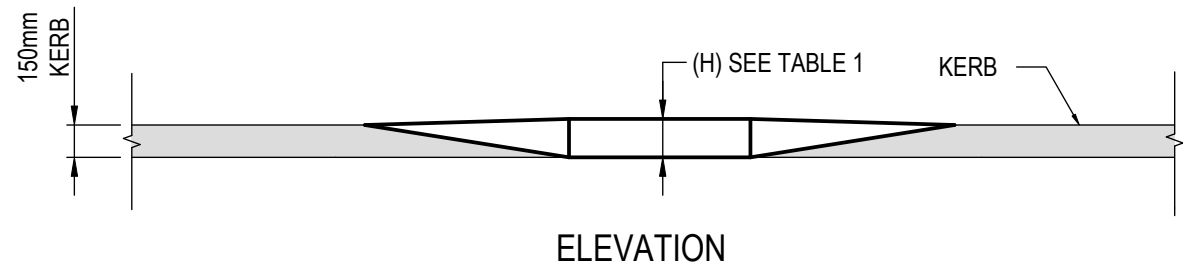
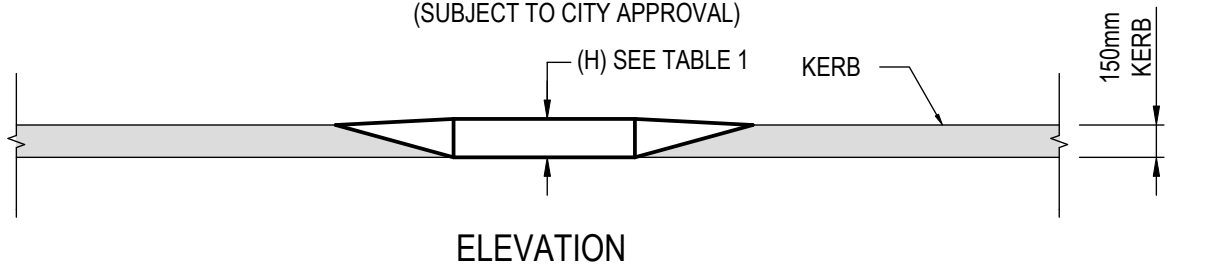
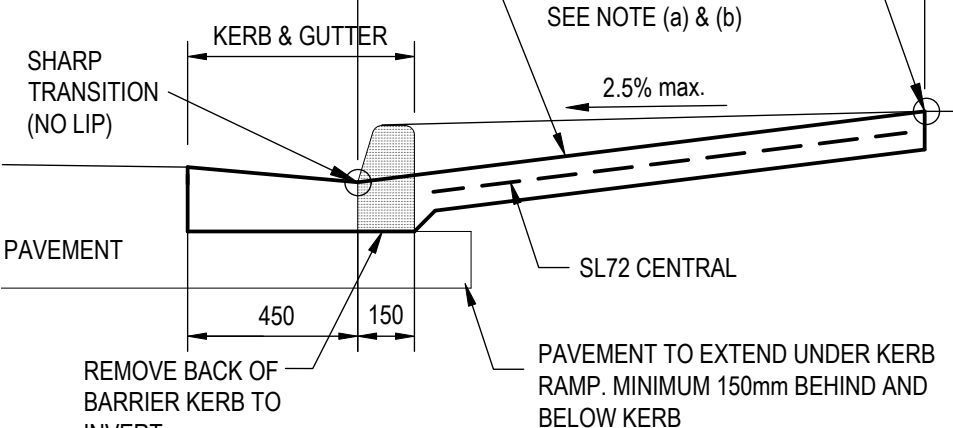


TABLE 1.
KERB RAMP LENGTH (L) VERSUS (H) ABOVE INVERT KERB AT 12.5%

LENGTH (L) mm	(H) mm
1000 ABSOLUTE MINIMUM	125
1100	137
1200 DESIRED MINIMUM	150
1300	162
1400	175
1500 STANDARD RAMP	190



RAMP 1:8 MAX. FOR RAMPS FLATTER THAN 1:8.5 PROVIDE T.G.S.I. SEE STD. DRG. R200-11 FOR TGSi INSTALLATION DETAIL



KERB RAMP FOR SA KERB & GUTTER TYPICAL SECTION

TABLE 2
DESIRABLE KERB RAMP DIMENSION FOR SA KERB & GUTTER:

RAMP GRADE	DESIRABLE	(H) HEIGHT ABOVE KERB INVERT (mm)	(W) WING WIDTH (mm) FOR ANGLE SEE NOTE 8 & 9	
			45°	30°
1: 8 (12.5%), SEE (a) & (b)	1500	187	1350	780
1: 8 (12.5%), SEE (a) & (b)	1200	150	1050	600
1:10 (10%) (TGSi REQUIRED)	1500	150	1350	780
1:12 (8.33%) (TGSi REQUIRED)	1500	125	1350	780

- NOTES:
- (a) WHERE EVER POSSIBLE, RAMPS SHALL BE CONSTRUCTED FOR A GRADE 1:8, GRADES NOT EXCEEDING 1:8.5 DO NOT REQUIRE TACTILE INDICATORS (TGSi)
 - (b) LENGTH (L) FOR 150mm HIGH BARRIER KERB
 - MAXIMUM RAMP LENGTH (L) = 1500mm.
 - DESIRED MINIMUM LENGTH (L) = 1200mm
 - AN ABSOLUTE MINIMUM LENGTH (L) = 1000mm IS PERMITTED IF SITE GRADING CONSTRAINTS EXIST OR TO PROVIDE ADEQUATE LANDING AND CLEARANCE TO OBSTRUCTIONS.

NOTES:

1. RAMP END CLEARANCE - THERE SHALL BE A MINIMUM WHEELCHAIR TURN AROUND DISTANCE OF 1500mm BEYOND THE END OF THE RAMP AND FREE OF ANY OBSTRUCTION.
2. FOR DETAILS OF WARNING AND DIRECTIONAL TGSi's, REFER TO AS 1428.4.1. - 2009
3. MAXIMUM RAMP SLOPE FOR WHEELCHAIR ACCESS SHALL BE 1 IN 8. THE INCLUDED ANGLE BETWEEN THE RAMP AND THE ROADWAY SHALL NOT BE LESS THAN 166° TO PROVIDE EASE OF ACCESS FOR WHEELCHAIR USERS.
4. RAMP LOCATION - KERB RAMPS SHOULD PREFERABLY BE DIRECTED AT 90° TO THE DIRECTION OF THE ROAD TO ENABLE VISION IMPAIRED PEDESTRIANS TO WALK DIRECTLY ACROSS THE ROAD BY THE SHORTEST ROUTE
5. CONCRETE TO BE CLASS N32.
6. ALL CONCRETE TO BE BROOM FINISHED PENDENDICULAR TO PEDESTRIAN TRAFFIC SURFACE OF RAMP AND SLOPING SIDES SHALL BE SLIP RESISTANT AND OF A COLOUR THAT CONTRASTS WITH THE ADJOINING SURFACES TO MEET THE REQUIREMENTS OF AS 1428.
7. KERB RAMP WING ANGLES MAY BE REDUCED AT LESS THAN 45° IF REQUIRED TO BE CLEAR OF SIGNALS HARDWARE, OTHER KERB RAMP OR UTILITY PITS / MANHOLES.
8. KERB RAMP WINGS MAY ALSO BE REDUCED ON OBTUSE ANGLED INTERSECTION AND KERB RETURNS, WINGS SHALL HAVE A WIDTH OF BETWEEN 600 - 1500mm. SEE STD. DRG. R-240-09 FOR DETAILS.
9. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Aprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

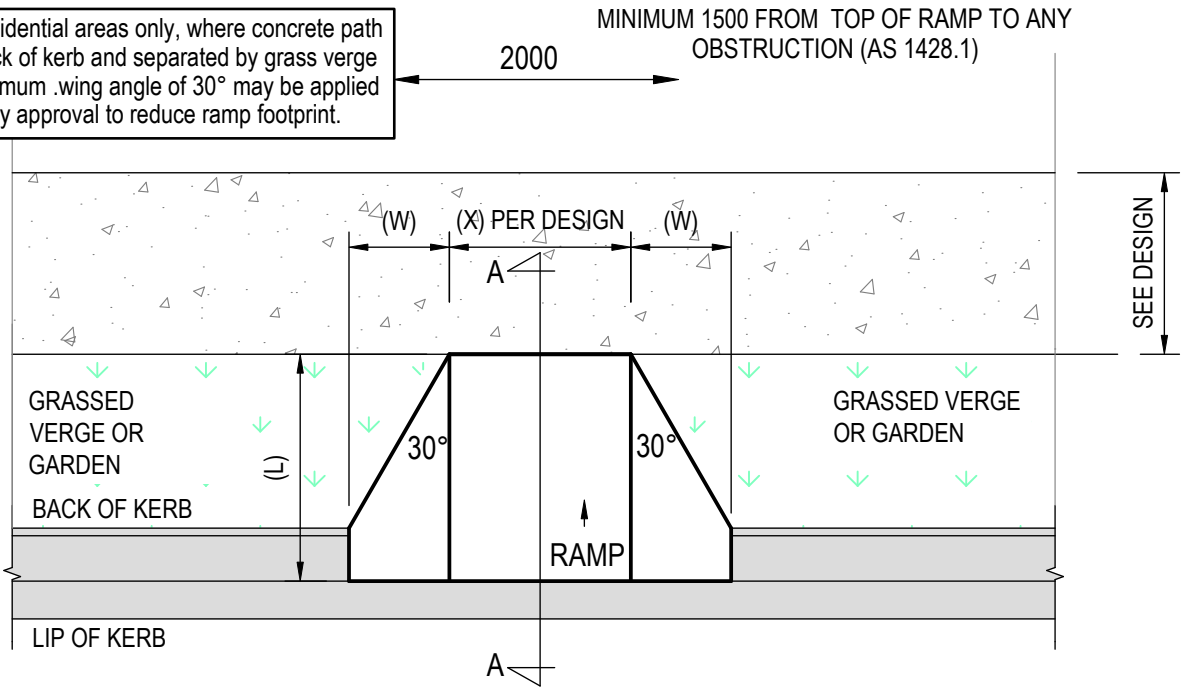
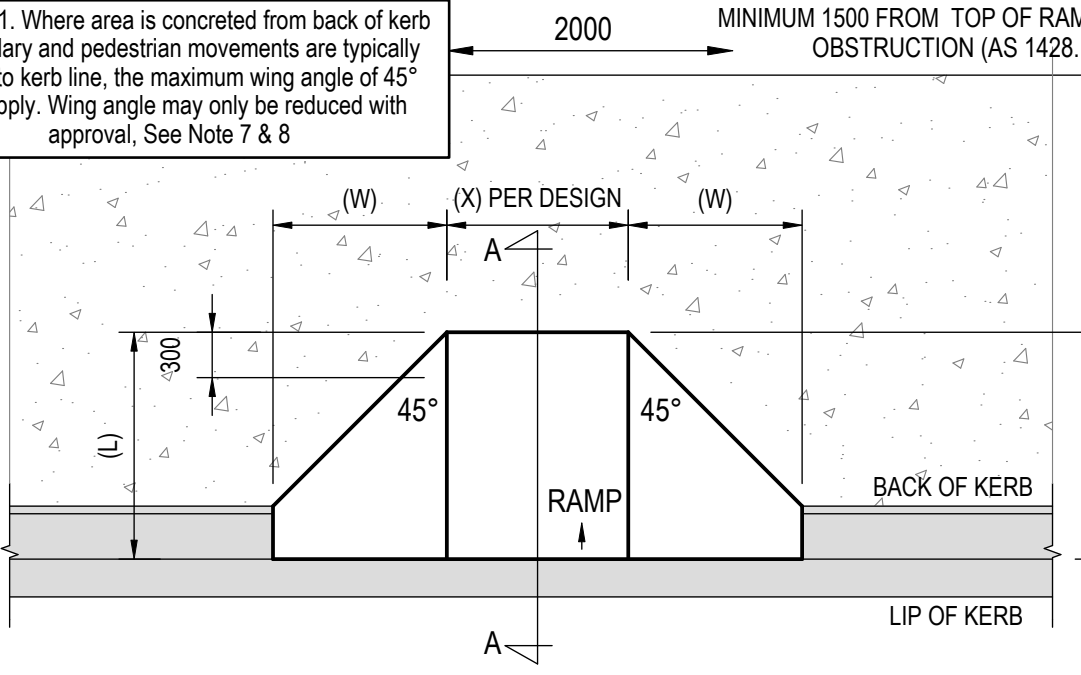
TYPICAL KERB RAMP FOR SA KERB AND GUTTER TYPE 1

Council Plan No. **R-240-07**

Orig. Size **A3** Revision **1**

Example 1. Where area is concreted from back of kerb to boundary and pedestrian movements are typically parallel to kerb line, the maximum wing angle of 45° must apply. Wing angle may only be reduced with approval, See Note 7 & 8

Example 2. In residential areas only, where concrete path is offset from back of kerb and separated by grass verge or garden, a minimum wing angle of 30° may be applied subject to City approval to reduce ramp footprint.



(L) SEE TABLE 1 & 2
1200 DESIRED
1500 MAX.
VARIES TO SUIT CROSSFALL OF VERGE
(SEE TABLE 2 BELOW FOR DESIRABLE
AND MINIMUM LENGTHS)

TACTILE INDICATORS ARE ONLY REQUIRED IF RAMP IS LESS THAN 1:8.5 (11.76%) OR THE CHANGE OF GRADE AT TOP OF RAMP AND LANDING IS < 10.5%, STD DRG R-240-11 FOR INSTALLATION DETAILS OF TG.S.I.

STANDARD KERB RAMP - TYPE 2 FOR ROLL KERB

MINIMUM KERB RAMP - TYPE 2 FOR ROLL KERB

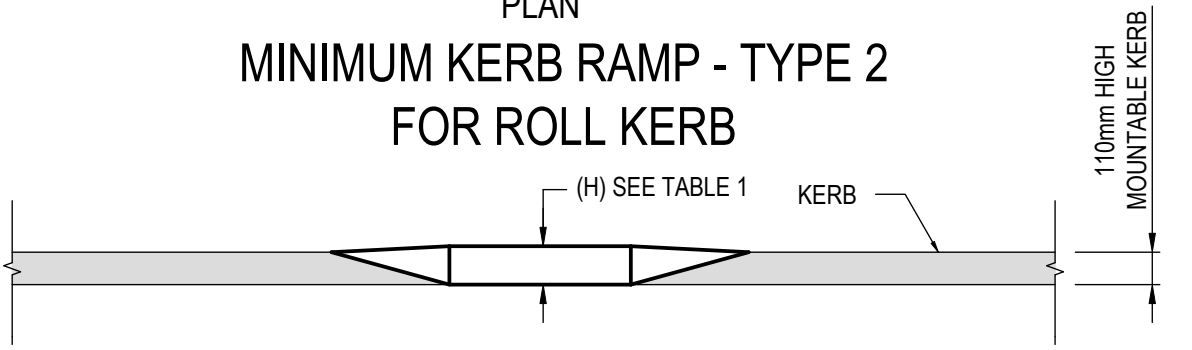
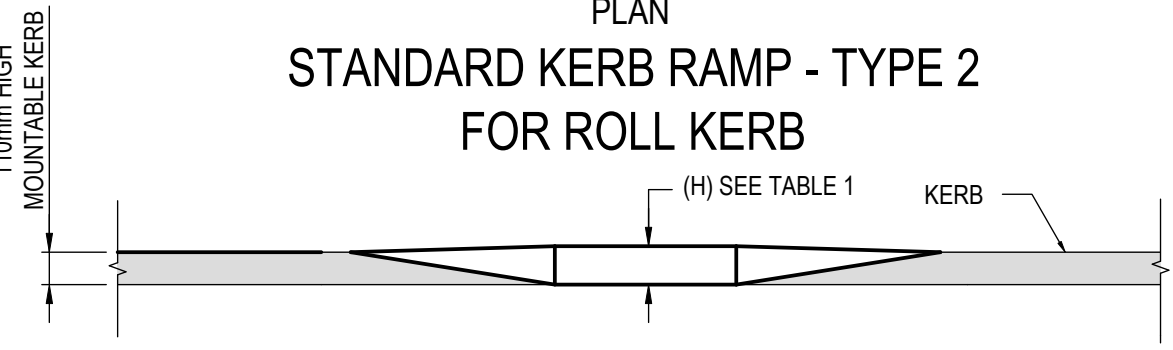


TABLE 1.

KERB RAMP LENGTH (L) VERSUS (H) ABOVE INVERT KERB AT 12.5%	
LENGTH (L) mm	(H) mm
1000 MINIMUM	125
1100	140
1200 DESIREABLE	150
1300	165
1400	175
1500 MAXIMUM	187

TABLE 2.

DESIRABLE KERB RAMP DIMENSIONS FOR ROLL KERB & GUTTER:

RAMP GRADE	DESIRABLE	"H" HEIGHT ABOVE KERB INVERT (mm)	"W" WING WIDTH (mm) FOR ANGLE SEE NOTE 8 & 9	
			45°	30°
1: 8 (12.5%)	1000	125	650	375
1: 8 (12.5%)	1200	150	850	500
1: 8 (12.5%)	1500	187	1150	650
1:10 (10%) (TGSi Required)	1200	120	850	500
1:12 (8.33%) (TGSi Required)	1500	125	1150	650

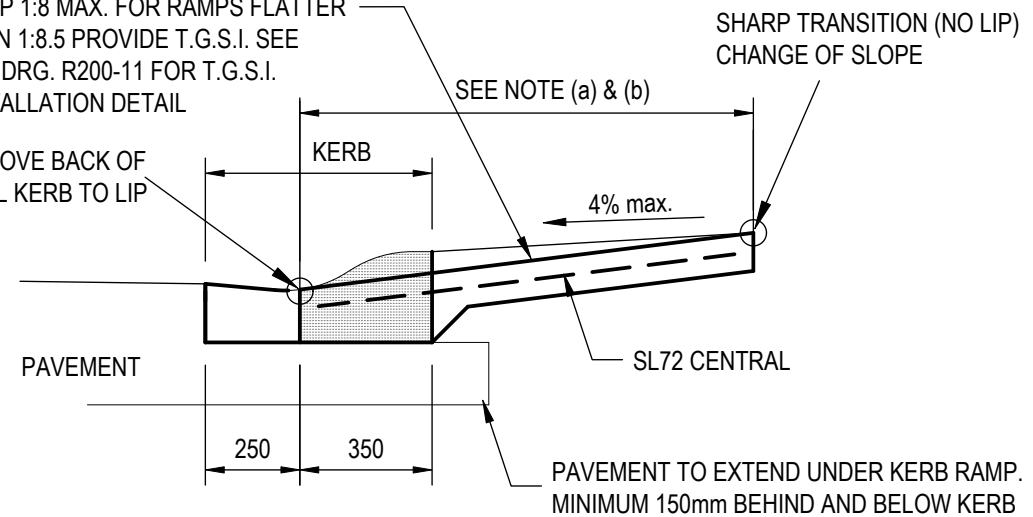
NOTES:
 (a) WHERE EVER POSSIBLE RAMPS SHALL BE CONSTRUCTED FOR A GRADE 1:8, GRADES NOT EXCEEDING 1:8.5 DO NOT REQUIRE TACTILE INDICATORS (TGSi)
 (b) LENGTH (L) FOR 110mm HIGH ROLL KERB:
 - DESIRABLE RAMP LENGTH (L) = 1200mm.
 - MAXIMUM RAMP LENGTH (L) = 1500mm
 - AN ABSOLUTE MINIMUM LENGTH (L) = 900mm IS PERMITTED IF SITE GRADING CONSTRAINTS EXIST OR TO PROVIDE ADEQUATE LANDING AND CLEARANCE TO OBSTRUCTIONS.

NOTES:

1. RAMP END CLEARANCE. THE SHALL BE A MINIMUM WHEELCHAIR TURNAROUND DISTANCE OF 1500mm BEYOND THE END OF THE RAMP AND FREE OF ANY OBSTRUCTION.
2. FOR DETAILS OF WARNING AND DIRECTIONAL TGSi's, REFER TO AS 1428.4.1. - 2009
3. MAXIMUM RAMP SLOPE FOR WHEELCHAIR ACCESS SHALL BE 1 IN 8. THE INCLUDED ANGLE BETWEEN THE RAMP AND THE ROADWAY SHALL NOT BE LESS THEN 166° TO PROVIDE EASE OF ACCESS FOR WHEELCHAIR USERS.
4. RAMP LOCATION - KERB RAMPS SHOULD PREFERABLY BE DIRECTED AT 90° TO THE DIRECTION OF THE ROAD TO ENABLE VISION IMPAIRED PEDESTRIANS TO WALK DIRECTLY ACROSS THE ROAD BY THE SHORTEST ROUTE
5. CONCRETE TO BE CLASS 32MPa N32)
6. ALL CONCRETE TO BE BROOM FINISHED PENDENDICULAR TO PEDESTRIAN TRAFFIC SURFACE OF RAMP AND SLOPING SIDES SHALL BE SLIP RESISTANT AND OF A COLOUR THAT CONTRASTS WITH THE ADJOINING SURFACES TO MEET THE REQUIREMENTS OF AS 1428.
7. KERB RAMP WING ANGLES MAY BE REDUCED AT LESS THAN 45° IF REQUIRED TO BE CLEAR OF SIGNALS HARDWARE, OTHER KERB RAMP OR UTILITY PITS / MANHOLES.
8. KERB RAMP WINGS MAY ALSO BE REDUCED ON OBTUSE ANGLED INTERSECTION AND KERB RETURNS, WINGS SHALL HAVE A WIDTH OF BETWEEN 600 - 1500mm. SEE STD. DRG. R-240-09 FOR DETAILS.
9. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

RAMP 1:8 MAX. FOR RAMPS FLATTER THAN 1:8.5 PROVIDE T.G.S.I. SEE STD.DRG. R200-11 FOR T.G.S.I. INSTALLATION DETAIL

REMOVE BACK OF ROLL KERB TO LIP

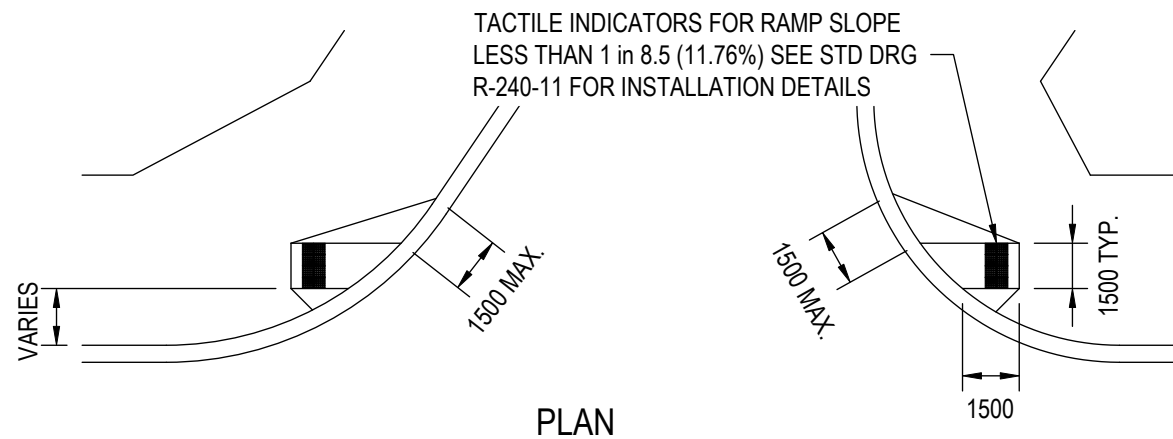


KERB RAMP FOR ROLL KERB TYPICAL SECTION

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

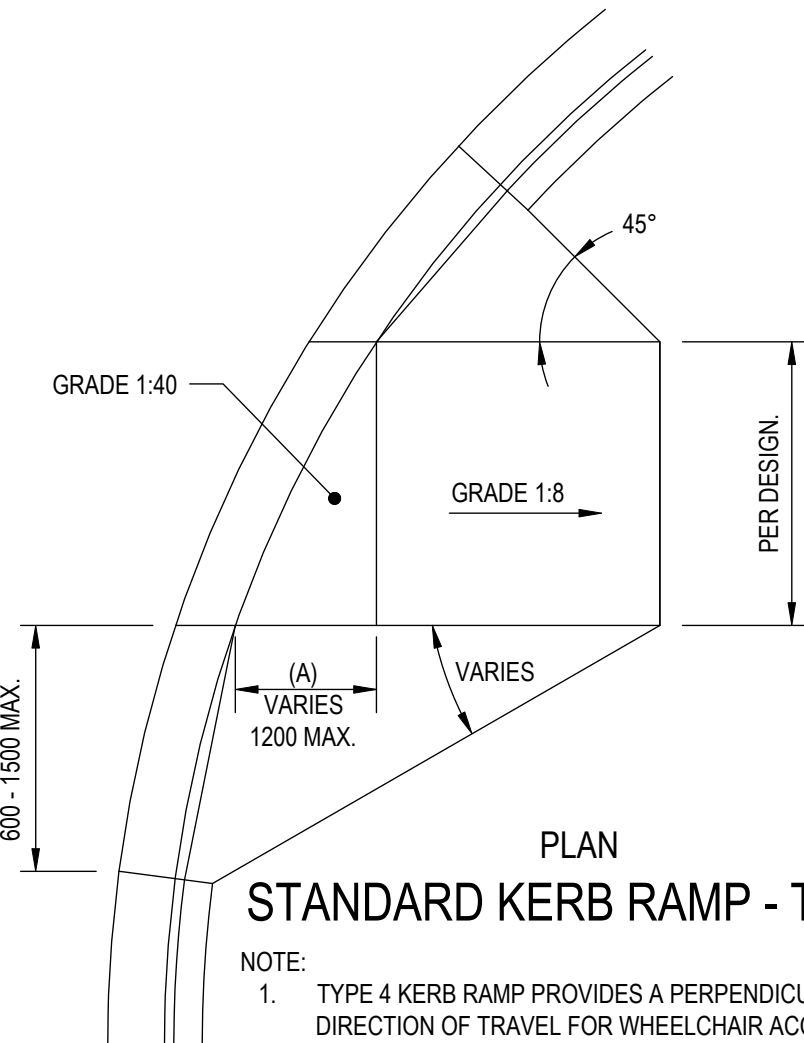
STANDARD DRAWINGS		Council Plan No.
TYPICAL KERB RAMP FOR ROLL KERB TYPE 2		R-240-08
Orig. Size	Revision	
A3	1	



STANDARD KERB RAMP - TYPE 3

NOTE:

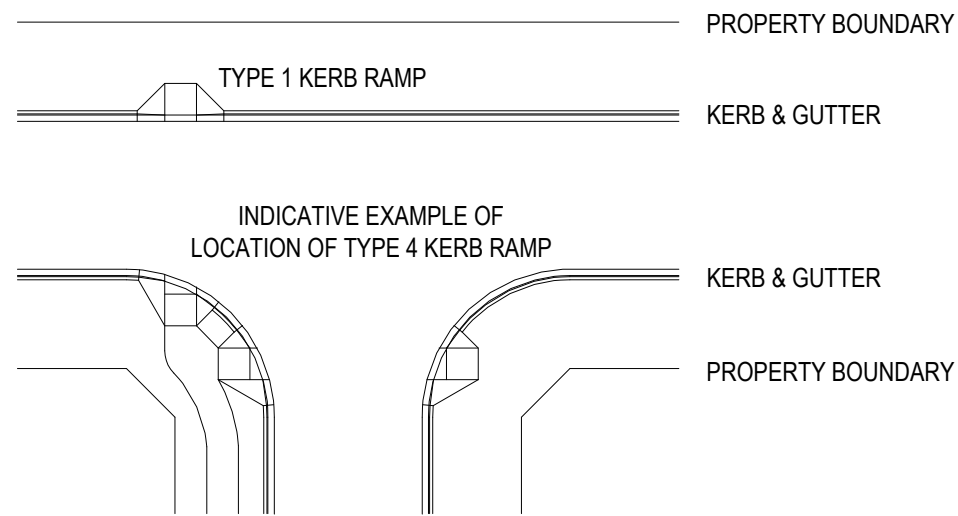
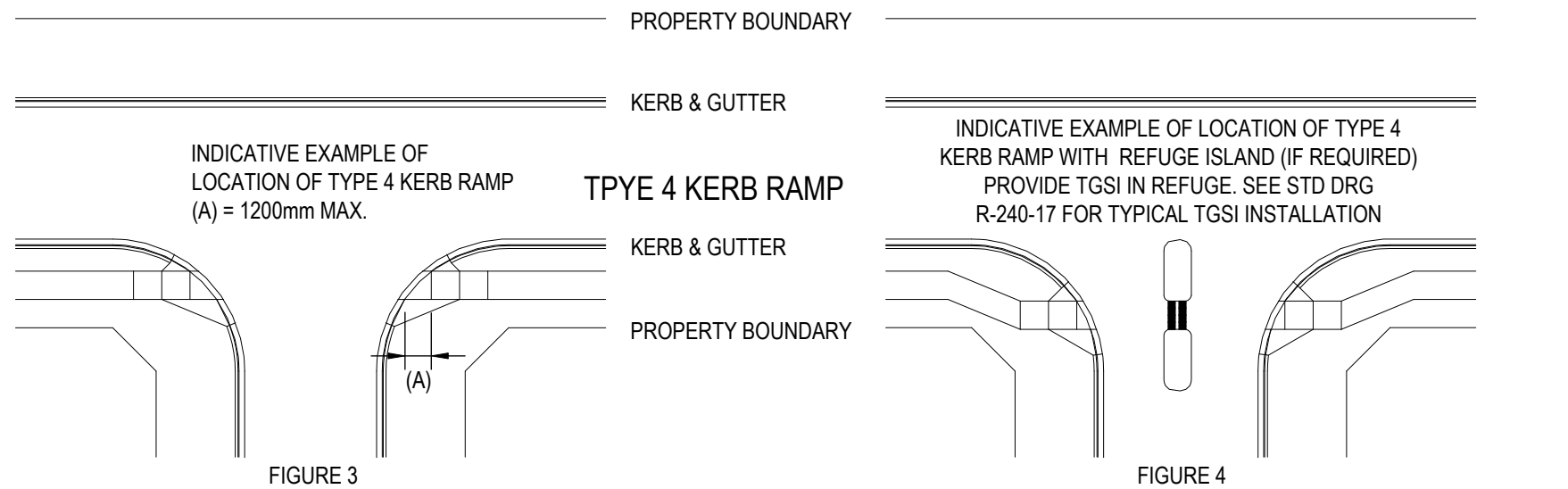
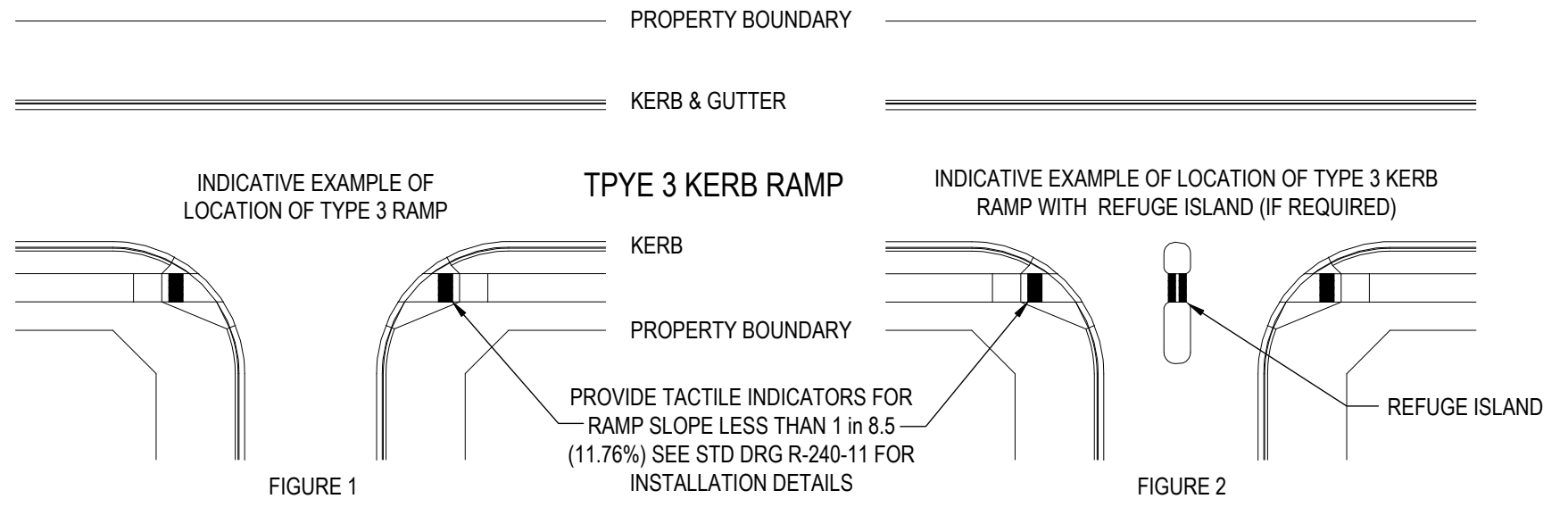
1. TYPE 3 RAMP TO BE ADOPTED WHERE THE DESIRE TRAVEL PATH IS DIRECTLY IN LINE WITH FOOTPATH PARALLEL TO ROAD AS SHOWN IN FIGURE 1 & 2
2. TACTILE INDICATORS ARE REQUIRED IF RAMP IS LESS THAN 1:8.5.(11.76%).



STANDARD KERB RAMP - TYPE 4

NOTE:

1. TYPE 4 KERB RAMP PROVIDES A PERPENDICULAR & UNIFORM RAMP GRADE TO DIRECTION OF TRAVEL FOR WHEELCHAIR ACCESS, ALIGN FOOTPATH TO SUIT RAMP LOCATION ON KERB RETURN AS SHOWN IN FIGURE 3 & 4.
2. RAMP GRADE OF 1:8 IS TO BE PROVIDED & TACTILE INDICATORS ARE NOT TO BE USED.
3. DIMENSION (A) OF 1:40 GRADED AREA TO KERB INVERT VARIES WITH A MAXIMUM LENGTH OF 1200mm. (SEE FIGURE 3)



TYPICAL KERB LAYOUTS
KERB RAMPS MUST ALWAYS ALIGN WITH THE OPPOSITE KERB RAMP & MEDIAN/ISLAND CUT THROUGHS

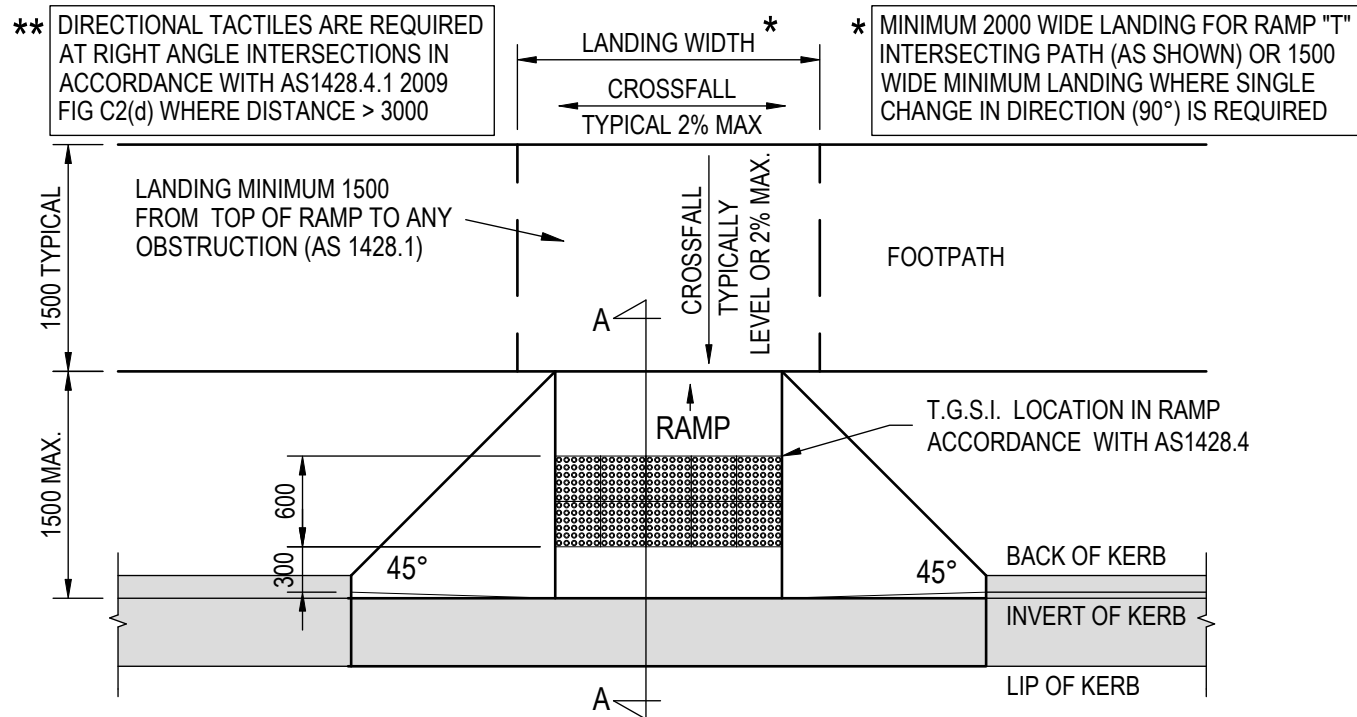
NOTES

1. TACTILE INDICATORS ARE REQUIRED IF RAMP IS LESS THAN 1:8.5.(11.76%) WHERE WARNING AND DIRECTIONAL TSGI'S ARE REQUIRED, REFER TO AS 1428.4.1-2009.
2. KERB RAMP WINGS AT ANGLES AT LESS THAN 45° MAY BE APPROVED, IF REQUIRED TO BE CLEAR OF SIGNALS HARDWARE, OTHER KERB RAMPS OR UTILITY PITS OR MANHOLES.
3. KERB RAMP WINGS MAY ALSO BE REDUCED AT OBTUSE ANGLED INTERSECTIONS, WINGS SHALL HAVE A WIDTH OF BETWEEN 600mm MIN. AND 1500mm MAXIMUM.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

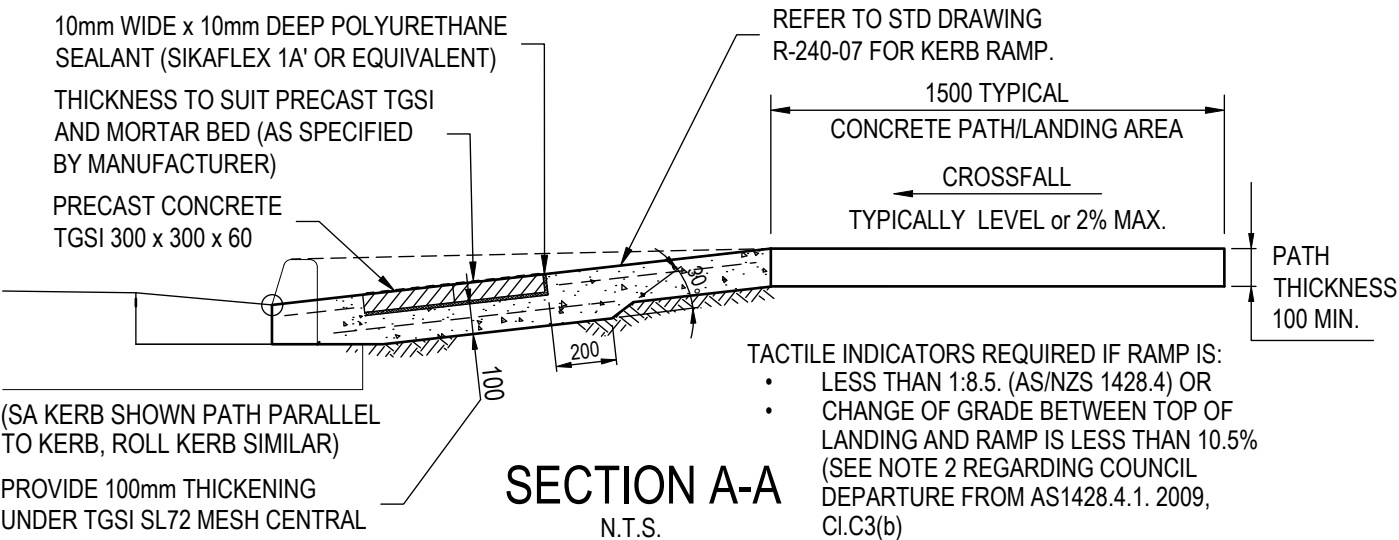
Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.
TYPICAL KERB RAMP LOCATIONS AT INTERSECTION KERB RETURNS TYPE 3 & 4		R-240-09
Orig. Size	Revision	
A3	1	

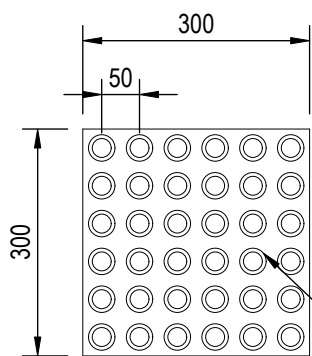


TYPICAL TGSi RAMP LOCATION

(TGSi LOCATION IN RAMP ACCORDANCE WITH AS1428.4)

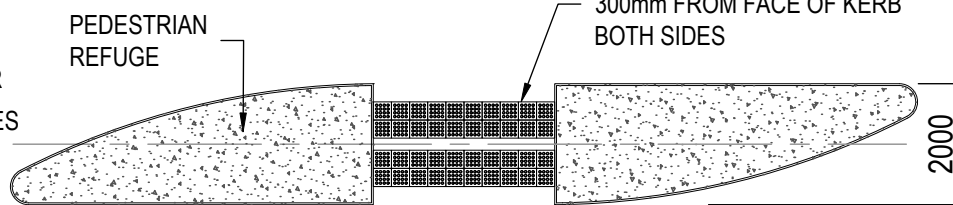
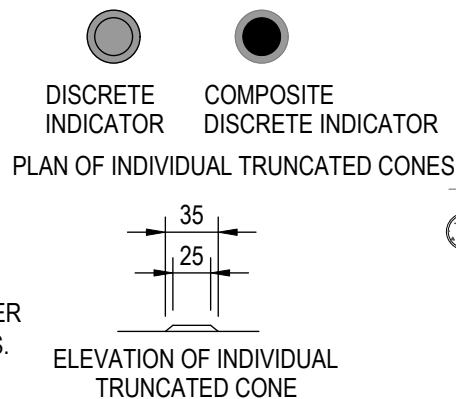


KERB RAMP TGSi INSTALLATION



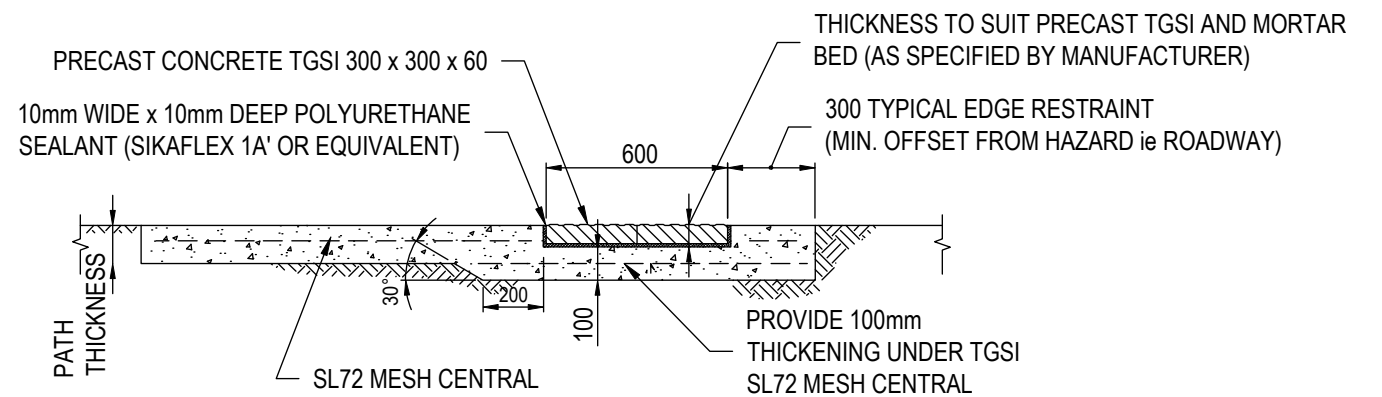
TYPICAL TGSi TILE

- PERMANENT INSTALLATIONS: CONCRETE PAVER TGSi;
 - RETROFIT INSTALLATIONS: RIGID POLYMER COMPOSITE OR PRESSED SINGLE SHEET METAL TGSi
 TYPICAL TGSi TILE. INSTALL AS PER MANUFACTURERS SPECIFICATIONS. COLOURS AS PER DESIGN PLANS

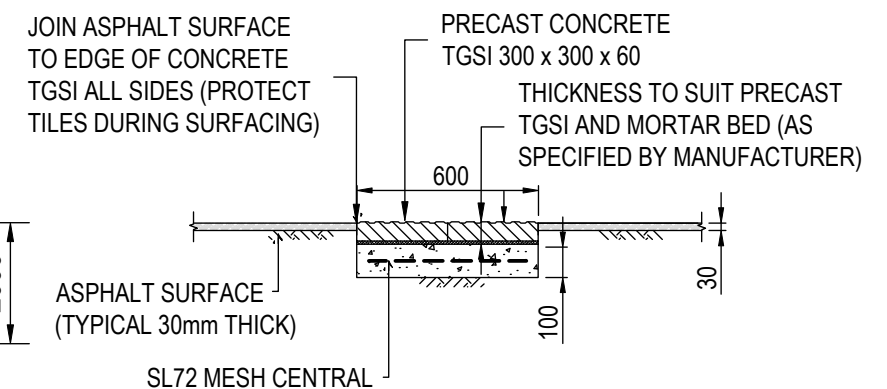


TYPICAL TGSi FOR REFUGE 2000 WIDE & GREATER

(REFER TO STD DRG R-240-18 FOR PEDESTRIAN REFUGE DETAILS)



TYPICAL CONCRETE THICKENING FOR TGSi



ASPHALT SURFACE

(NEW CONSTRUCTION WORKS)

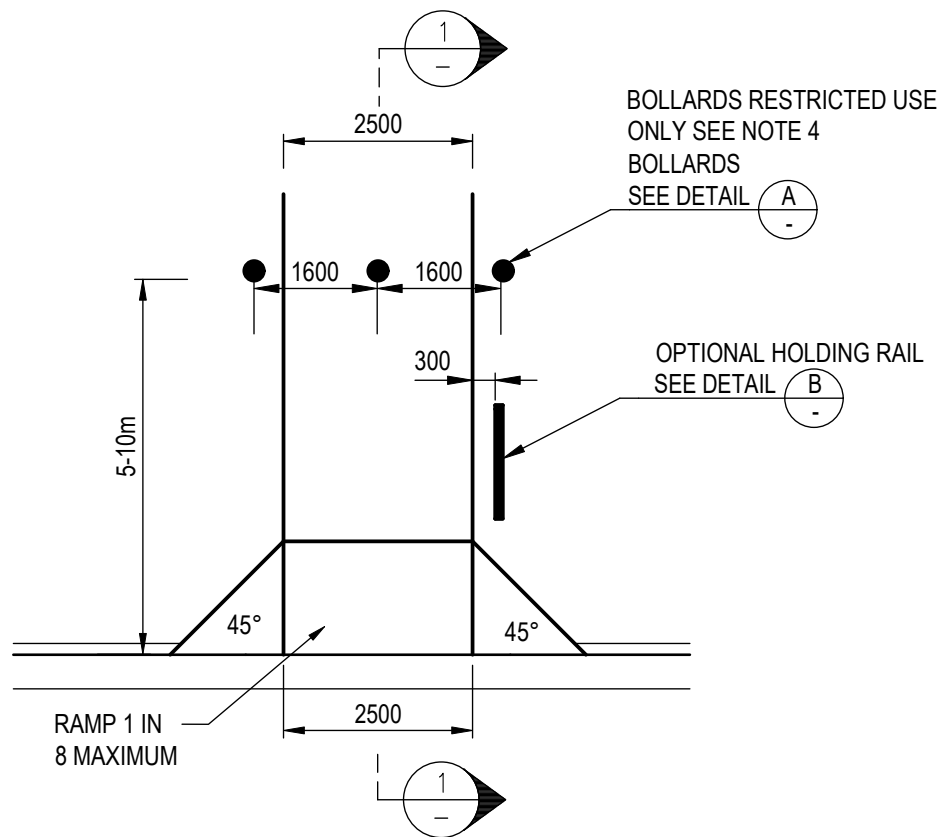
NOTES:

- TGSi TYPES SHALL BE ACCORDING TO INSTALLATION TYPE:
 - PERMANENT INSTALLATIONS: CONCRETE PAVER TGSi;
 - RETROFIT INSTALLATIONS: RIGID POLYMER COMPOSITE OR PRESSED SINGLE SHEET METAL TGSi
- FOR KERB RAMP IN ACCORDANCE WITH AS1428.4.1. 2009 Cl. C3(b), WARNING TGSis ARE NOT REQUIRED TO BE INSTALLED IF:
 "THE CHANGE IN GRADIENT BETWEEN THAT OF THE PEDESTRIAN SURFACE AT THE TOP AND THE GRADIENT OF THE RAMP SURFACE LIES BETWEEN 1 IN 8 TO 1 IN 8.5". TO COMPLY WITH C3(b), THE SUBSEQUENT RAMP LANDING TYPICALLY MUST BE BUILT LEVEL. COUNCIL WILL ACCEPT A DEPARTURE FROM Cl C3(b) IF:
 (a) THE PATH CROSSFALL IS 2% AT THE INTERSECTION WITH THE KERB RAMP
 (b) THE KERB RAMP IS CONSTRUCTED ON A GRADE OF 1 IN 8
 (c) THERE IS AN ANGULAR CHANGE IN GRADE AT THE TOP OF KERB RAMP AND FOOTPATH (I.E. NOT ROUNDED) AND
 (d) THE KERB RAMPS ON EITHER SIDE OF THE ROAD ARE PERPENDICULAR (IE DIRECTIONAL RAMP)
- WARNING INDICATORS SHOULD BE PLACED AT RIGHT ANGLES TO THE DIRECTION OF TRAVEL ACROSS THE ROADWAY, A MINIMUM OF 600mm DEEP (2 x 300mm TACTILE TILES) AND 300mm BACK FROM THE FACE OF KERB.
- FOR PERMANENT INSTALLATION OF PROPRIETARY TGSi INLAY TILES PROVIDE THICKENING OF THE CONCRETE PATH AS SHOWN IN DETAILS FOR INSTALLATION OF TILE TO MANUFACTURERS SPECIFICATIONS. CONCRETE THICKENING NOT REQUIRED WHERE INDIVIDUAL TRUNCATED CONES ARE USED)
- FOR RETROFIT INSTALLATIONS, RIGID POLYMER COMPOSITE, PRESSED SINGLE SHEET METAL AND POLYURETHANE TGSi TO BE INSTALLED TO MANUFACTURERS/SUPPLIERS REQUIREMENTS.
- TYPICAL TGSi COLOUR SELECTION FOR PLAIN CONCRETE SHALL BE CCS VOODOO & FOR ASPHALT CCS PEWTER UNLESS NOTED OTHERWISE ON DESIGN PLANS. REQUIREMENTS FOR THE BACKGROUND PAVEMENTS/SURFACES FOR OTHER SURFACE COLOUR TO BE IN ACCORDANCE WITH THE METHODOLOGY SETOUT IN APPENDIX E OF AS1428.4.1.
- FOR SINGALISED INTERSECTIONS UNDER THE AUTHORITY OF TRANSPORT NEW SOUTH WALES, KERB RAMPS SHALL BE CONSTRUCTED TO TrNSW STANDARD DRAWING & GUIDELINES. SEE EXTRACT OF RTA'S PEDESTRIAN FACILITIES GUIDE VERSION DATED 5 JAN. 2005. " It is RTA policy not to have tactile indicators on kerb intervention. This is due to the complex environment that may occur on footpath (road furniture, service pits, surface imperfection through to drainage pits) and the increase risk that sight impaired pedestrians may be directed into opposing vehicle traffic. Therefore tactile indicators must not be installed at kerb ramps."

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

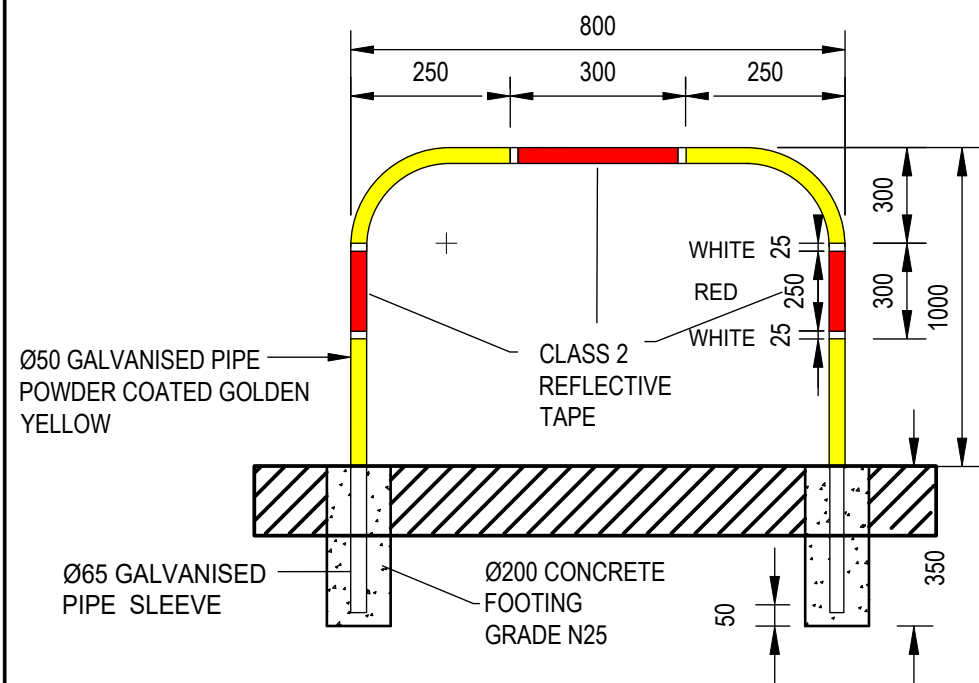
Locked Bag 155
 Coffs Harbour. NSW. 2450
 Ph. (02)66484000
 www.coffsharbour.nsw.gov.au
 coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.
TACTILE INDICATORS		R-240-11
TYPICAL INSTALLATION DETAILS		Orig. Size Revision
		A3 1



CYCLE RAMP DETAIL

NOT TO SCALE

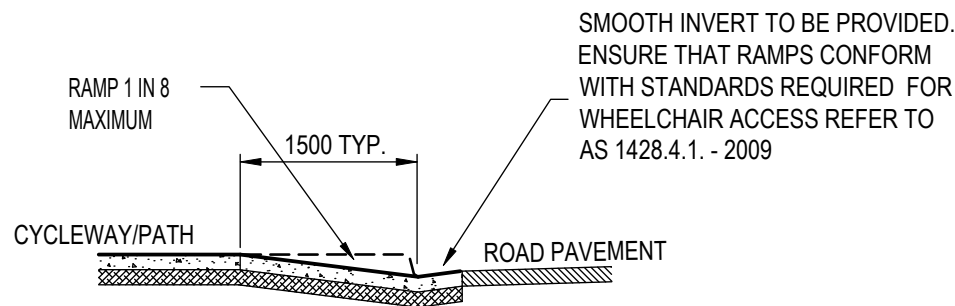


CYCLE HOLDING RAIL

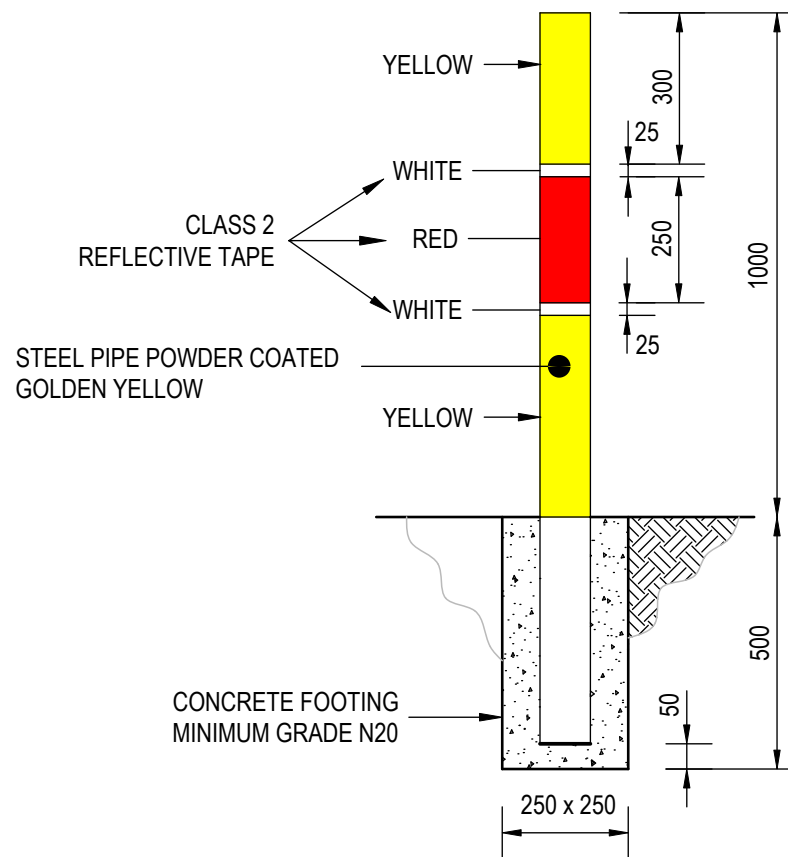
(SEE NOTE 3)

DETAIL B

NOT TO SCALE



SECTION 1



CYCLE TRACK BOLLARD

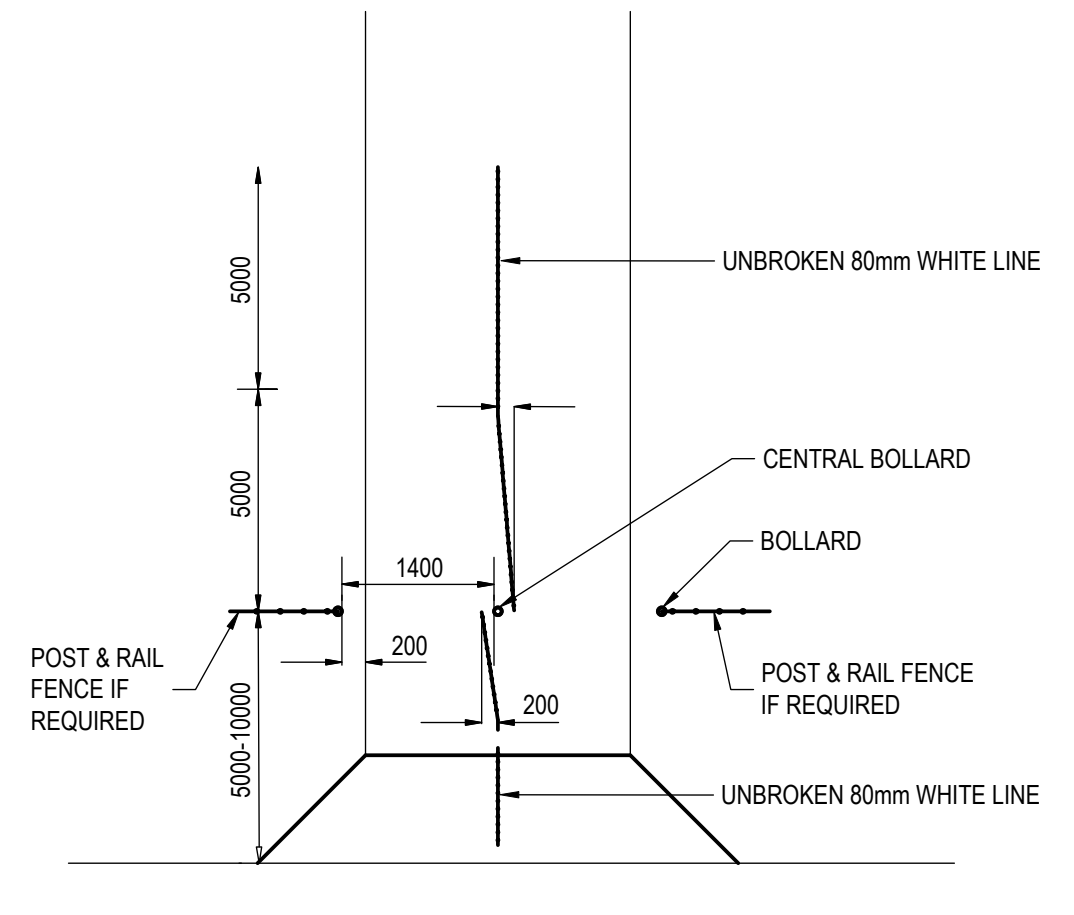
DETAIL A

NOT TO SCALE

(RESTRICTED USE ONLY SEE NOTE 4)

NOTE:

- FOR TYPICAL CYCLEWAY DETAILS. REFER TO AUSTRROADS "AGRD06A : PART 6A PATHS FOR WALKING & CYCLING".
- FOR TYPICAL CYCLEWAY CONSTRUCTION DETAILS FOR CONCRETE REFER TO STD. DRG. R-240-03.
- 50DIA. HOLDING RAIL OPTIONAL AND USE IS SUBJECT TO NEED AT DESIGN STAGE. PROVIDE RAIL ON LHS OF PATH ON APPROACH TO ROADS & INTERSECTIONS AT 300mm OFFSET FROM TOP OF RAMP AND 300mm FROM EDGE OF CONCRETE PATH.
- BOLLARDS: RESTRICTED USE ONLY & IN THE FOLLOWING CIRCUMSTANCES :
 - WHERE THERE IS A NEED TO RESTRICT MOTOR VEHICLE ACCESS TO PATH.
 - USE OF BOLLARDS ARE SUBJECT TO CITY APPROVAL.
 - THE CITY MAY PREFER A SEPARATED ENTRY AND EXIT TERMINAL WITH WIDER RAMP WIDTH AS SHOWN ON FIG 7.5, AUSTRROADS "AGRD06A : PART 6A, AS AN ALTERNATIVE TO THE USE OF BOLLARDS.



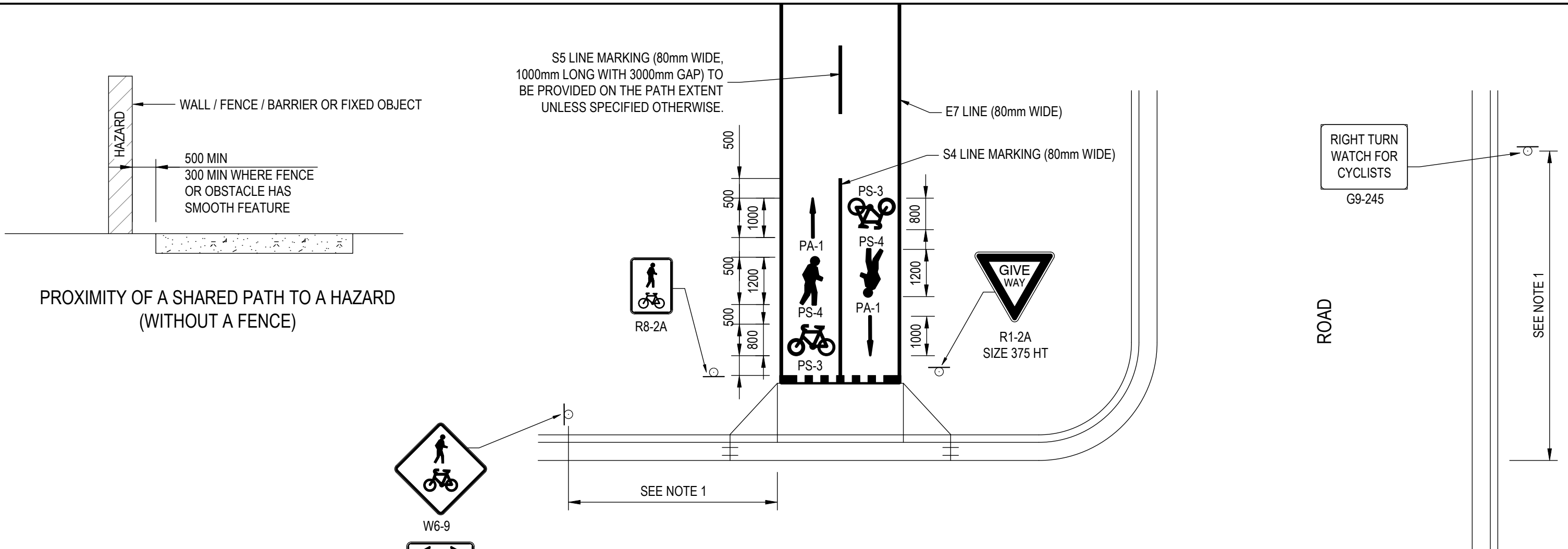
LINEMARKING FOR BOLLARDS

(RESTRICTED USE ONLY SEE NOTE 4)

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

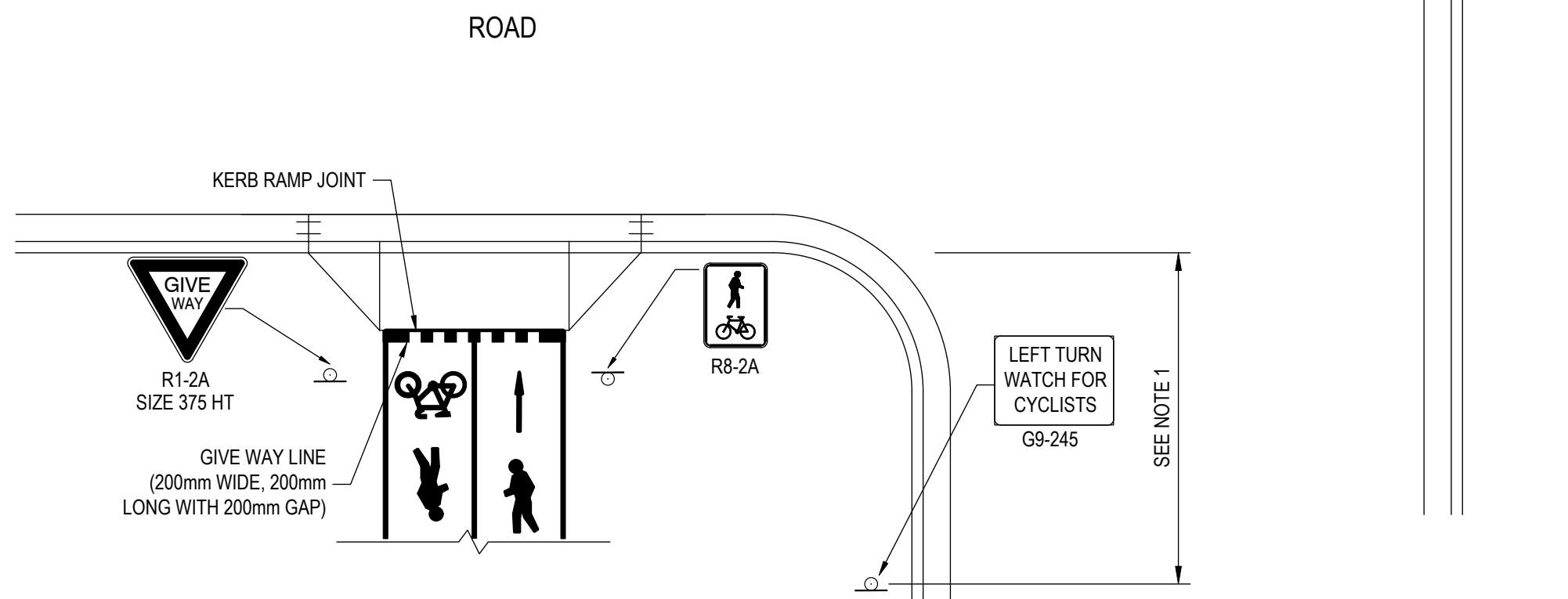
Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.
		R-240-11
CYCLEWAY KERB RAMP WITH HOLDING RAIL		Orig. Size
		A3
		Revision
		1



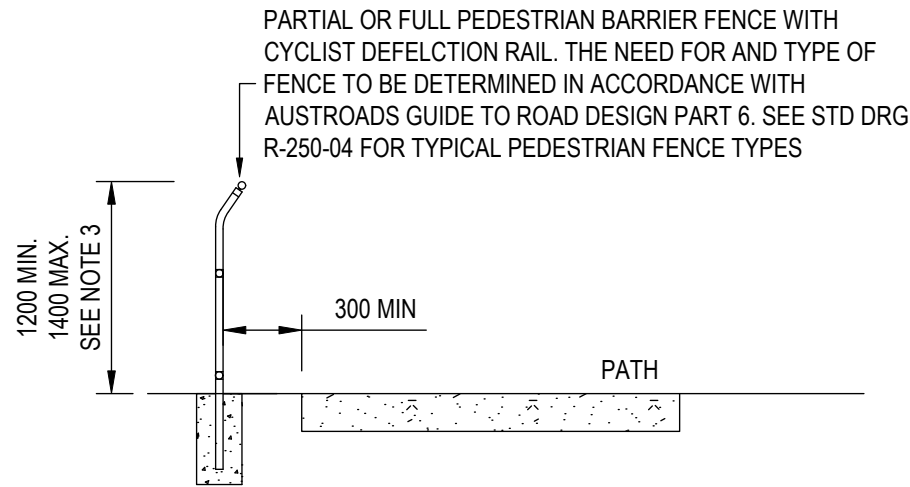
PROXIMITY OF A SHARED PATH TO A HAZARD (WITHOUT A FENCE)

- NOTES:
1. THE LOCATION OF THE W8-23A, W6-9 AND G9-245 SIGNS SHALL BE DETERMINED BY THE DESIGNER AND ARE TYPICALLY LOCATED 50m FROM THE PATH CROSSING
 2. WHERE THERE ARE SPACE OR SERVICES CONSTRAINTS ON EITHER SIDE OF THE KERB RAMPS, THE R8-2A AND R1-2A SIGNS MAY BE COMBINED ON A SINGLE POLE
 3. G9-58 CYCLIST DISMOUNT SIGNS SHALL BE PROVIDED ADJACENT TO THE PATH WHERE THE PATH WIDTH REDUCES TO LESS THAN 2000mm OR WHERE A PEDESTRIAN REFUGE IS PROVIDED TO CROSS THE ROAD.
 4. PROVIDE SHARED PATH REGULATORY SIGNS AT THE START OF ALL SHARED PATHS AND PROVIDE REPEATED SIGNS EVERY 500m AND SHARED PATH PAVEMENT MARKERS AT 200m MAXIMUM INTERVALS.
 5. PATH PAVEMENT MARKINGS TO BE WHITE REFLECTORISED ROAD MARKING PAINT UNLESS OTHERWISE SPECIFIED WHERE THERMOPLASTIC PAVEMENT MARKING ARE SPECIFIED. THE CONCRETE SURFACE SHALL BE PRIMED PRIOR TO PLACING MARKINGS
 6. FOR TYPICAL REQUIRMENTS FOR PROVISION OF CYCLIST BARRIER FENCING SEE STD DRG R-250-05

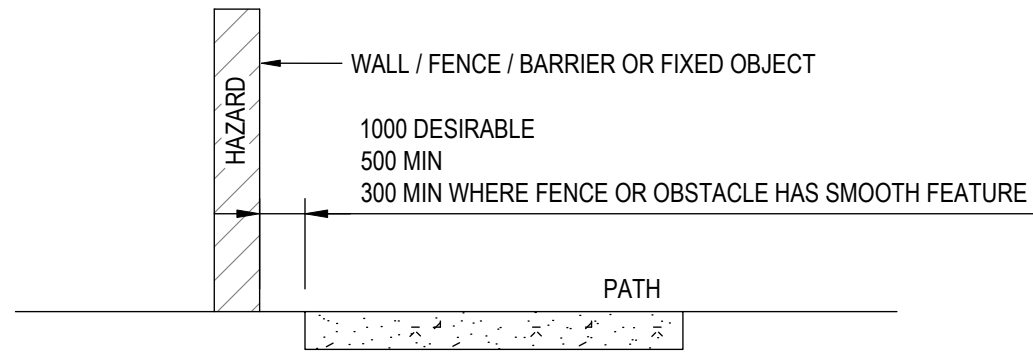


TYPICAL SHARED PATH LINEMARKING

Drawn	B.P.S						<p>Locked Bag 155 Coffs Harbour, NSW. 2450 Ph. (02)66484000 www.coffsharbour.nsw.gov.au coffs.council@chcc.nsw.gov.au</p>	<p>STANDARD DRAWINGS</p> <p>SHARED PATH KERB RAMP LINEMARKING & HAZARD CLEARANCES</p>		Council Plan No.	
Checked	C.B.									R-240-12	
Approved	D.S.								Orig. Size	Revision	
Date	DEC 2024	1	ISSUED FOR USE		B.P.S	D.S.	12/2024		A3	1	
Issue	FIRST ISSUE	Rev.	Amendments		Drawn	Apprd.	Date				



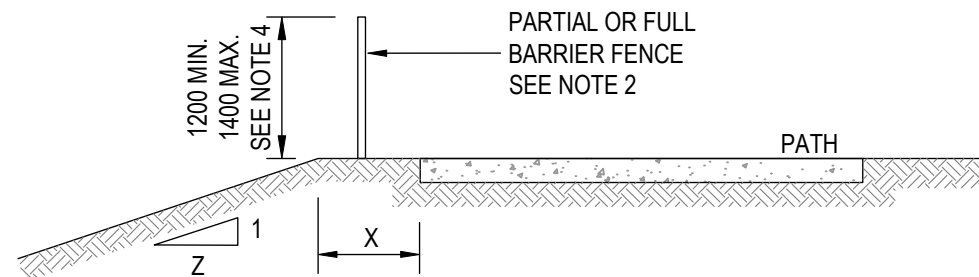
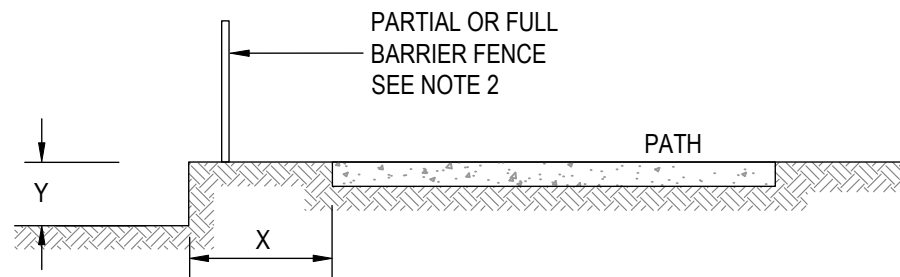
PROXIMITY OF A SHARED PATH TO A PEDESTRIAN BARRIER FENCE



PROXIMITY OF A SHARED PATH TO A HAZARD (WITHOUT A PEDESTRIAN BARRIER FENCE)

NOTES:

1. REFERENCE AUSTRROAD GUIDE TO ROAD DESIGN PART6A PATHS FOR WALKING AND CYCLING.
2. BARRIER FENCING IS TO BE INSTALLED IN ACCORDANCE WITH THE CRITERIA AS SHOWN ON THE SHEET. WHERE A PARTIAL BARRIER FENCE IS LOCATED WITHIN THE CLEAR ZONE ADJACENT TO A ROAD A FULL BARRIER FENCE SHALL BE PROVIDED AS PER THE DETAIL SHOWN ON STD DRG R- 250-03 USING WELDED WIRE MESH (WELDMESH) TYPE SIMILAR TO A.R.C. FENCES TYPE 'WATTLE' WITH 8mm WIRES.
3. PARTIAL BARRIER FENCE & FULL BARRIER FENCE SHALL BE IN ACCORDANCE WITH FIGURE 5.11 & FIGURE 5.12 OF AUSTRROAD AGRD06A-17. AND FIGURE 4.8 & FIGURE 4.7 OF AUSTRROAD AGRD06B-15.
4. PEDESTRIAN BARRIER FENCE TO BE MINIMUM 1200mm HIGH. FOR CYCLIST THE BARRIER FENCE HEIGHT SHALL BE 1400mm. WHERE THE PEDESTRIAN FENCE IS PROTECTING THE USER FROM A VERY SEVERE HAZARD, THE FENCE HEIGHT SHALL BE INCREASED TO 1400mm OR HIGHER IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6.
5. REFER TO R-250-04 FOR TYPICAL PARTIAL & FULL PEDESTRIAN BARRIER FENCING.
6. REFER TO R-250-05 FOR TYPICAL PARTIAL & FULL BICYCLE BARRIER FENCING.
7. POST & HORIZONTAL RAIL BARRIER FENCING ADJACENT TO ROADWAYS SHOULD BE AVOIDED BUT IS ACCEPTABLE IF LOCATED OUTSIDE THE DESIRABLE 'CLEAR ZONE' AS DETERMINED BY RISK ASSESSMENT. WHERE WITHIN THE CLEAR ZONE REFER STD DRG R-250-03 FOR REQUIRED PEDESTRIAN FENCE TYPE.



	X (m)	Y (m)
PARTIAL BARRIER FENCE REQUIRED	> 1, <5 < 1	0.5 TO 2 < 0.5
FULL BARRIER FENCE REQUIRED	> 1, <5 < 1	> 2 > 0.5

WHEN THE ABOVE CRITERIA DO NOT OCCUR A FENCE IS NOT REQUIRED

VERTICAL FALL / DROP

	X (m)	Z
PARTIAL BARRIER FENCE REQUIRED	< 5	STEEPER THAN 4
FULL BARRIER FENCE REQUIRED	< 5	STEEPER THAN 1

WHEN THE ABOVE CRITERIA DO NOT OCCUR A FENCE IS NOT REQUIRED

BATTER SLOPE

REQUIREMENTS FOR PEDESTRIAN BARRIER FENCE AT BATTER & VERTICAL DROPS

AMENDED BY THE CITY BASED ON AUSTRROAD FIGURE 5.10: AGRD06A-17 GUIDE TO ROAD DESIGN PART6A PATHS FOR WALKING AND CYCLING.

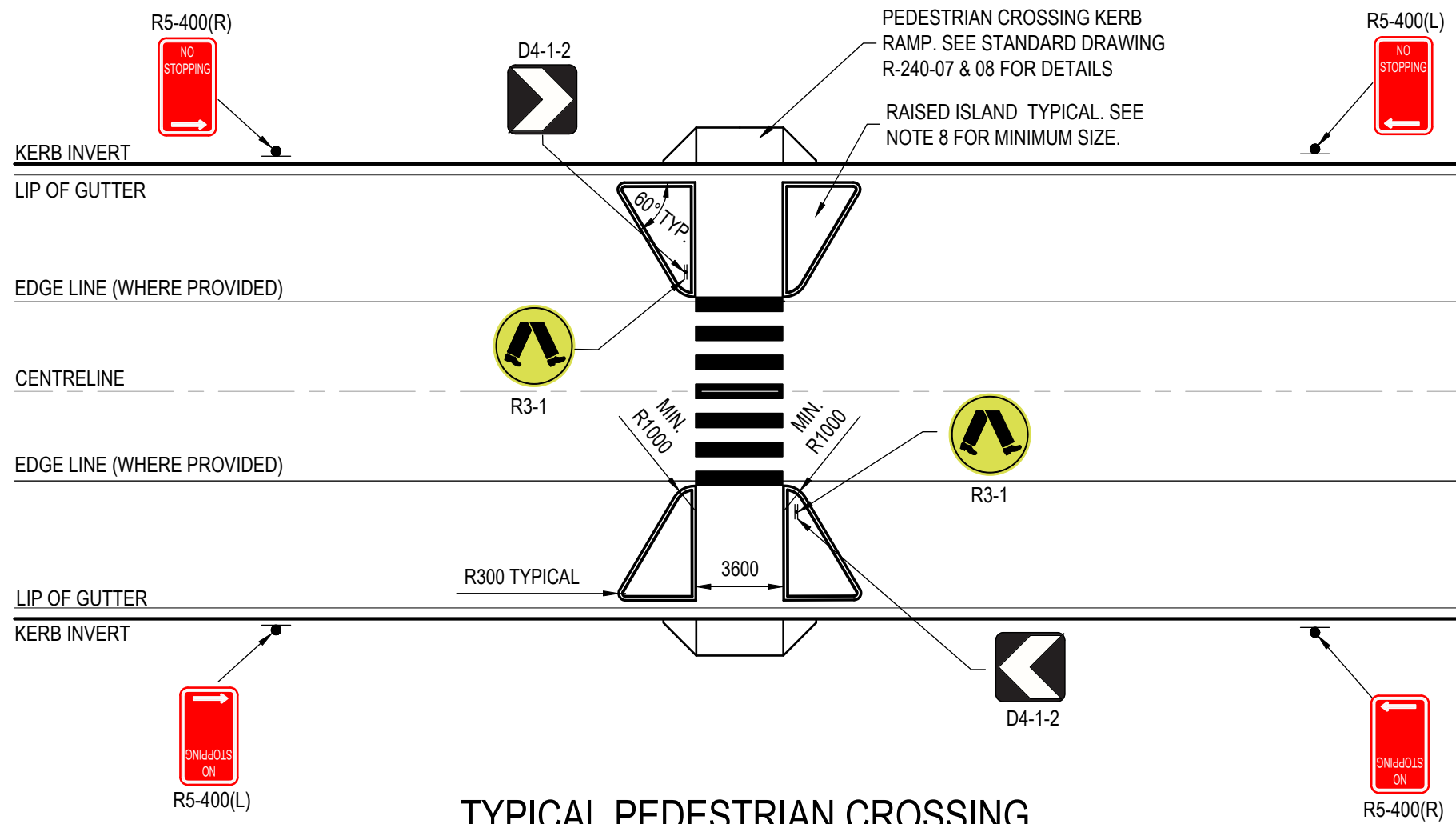
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

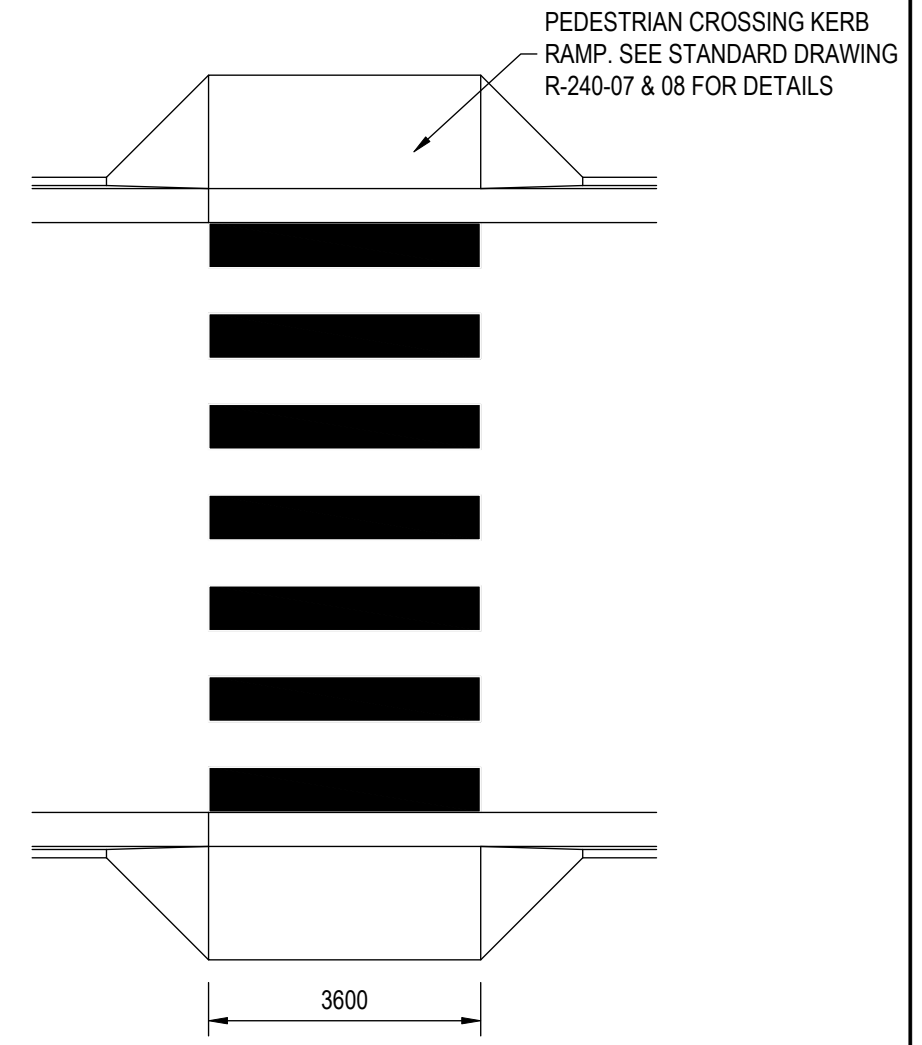
STANDARD DRAWINGS
PEDESTRIAN & SHARED PATHS
FENCING & HAZARD REQUIREMENTS

Council Plan No.
R-240-13
Orig. Size
A3
Revision
1



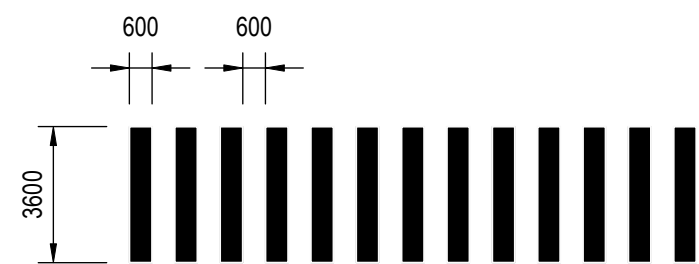
TYPICAL PEDESTRIAN CROSSING

RETROFIT KERB EXTENSIONS SHOWN
MID BLOCK PEDESTRIAN CROSSING



TYPICAL PEDESTRIAN CROSSING

(CROSSING ONLY PERMITTED TO CROSS TWO TRAFFIC LANES.)



PEDESTRIAN CROSSING
3600mm WIDE (WHITE), 600 LONG WITH 600 GAP
PEDESTRIAN CROSSING LINEMARKING

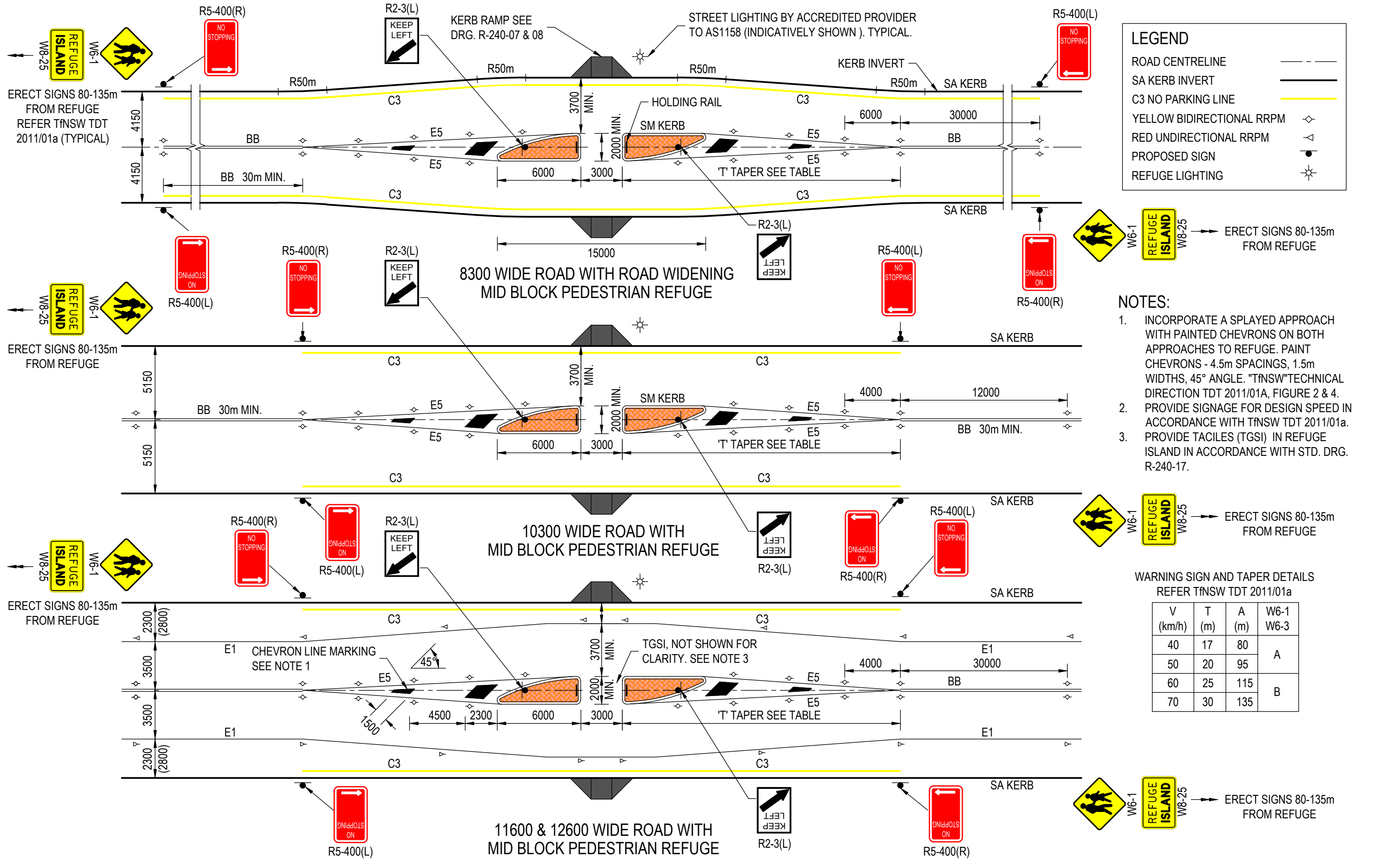
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. THE 28 DAY CONCRETE STRENGTH FOR CONCRETE BLISTERS, REFUGES ISLANDS AND INFILL SLABS SHALL BE MIN 25MPa (N25)
3. THE DISTANCE OF NO STOPPING SIGNS FROM KERB RAMPS SHALL BE DETERMINED IN ACCORDANCE WITH TfNSW TECHNICAL DIRECTIONS
4. STREET LIGHTING MUST BE PROVIDED AT PEDESTRIAN CROSSINGS IN ACCORDANCE WITH AS 1158
5. WHERE UNDERGROUND STORMWATER INFRASTRUCTURE IS PROVIDED, RAISED ISLANDS MAY CONTINUE TO THE KERB LINE PROVIDED AN INLET PIT IS LOCATED ON THE UPSTREAM SIDE OF THE RAISED ISLAND.
6. THE TOP SURFACE OF CONCRETE ON RAISED ISLANDS SHALL HAVE AN APPROPRIATE APPEARANCE TREATMENT, AND SHALL BE DETERMINED IN CONSULTATION WITH CITY OF COFFS HARBOUR. STENCILING SHALL NOT EXTEND PAST THE REAR TOP OF KERB
7. THE INSTALLATION OF REGULATORY TRAFFIC SIGNS IS THE RESPONSIBILITY OF CITY OF COFFS HARBOUR COUNCIL AND REQUIRES APPROVAL FROM THE LOCAL TRAFFIC COMMITTEE.
8. THE PLAN AREA OF THE RAISED ISLAND WITHIN URBAN AREAS SHALL BE A MINIMUM OF 8m² UNLESS AGREED WITH CITY OF COFFS HARBOUR.
9. SEMI MOUNTABLE KERB MAY BE USED IN LIEU OF A BARRIER KERB WHEN THE REFUGE ISLAND IS IN CLOSE PROXIMITY TO AN INTERSECTION OR IN SPEED ZONES HIGHER THAN 50km/h SUBJECT TO AGREEMENT WITH CITY OF COFFS HARBOUR.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.
TYPICAL PEDESTRIAN CROSSINGS		R-240-14
Orig. Size	Revision	
A3	1	



LEGEND

ROAD CENTRELINE	---
SA KERB INVERT	—
C3 NO PARKING LINE	—
YELLOW BIDIRECTIONAL RRPM	◇
RED UNIDIRECTIONAL RRPM	△
PROPOSED SIGN	●
REFUGE LIGHTING	☼

- NOTES:**
- INCORPORATE A SPLAYED APPROACH WITH PAINTED CHEVRONS ON BOTH APPROACHES TO REFUGE. PAINT CHEVRONS - 4.5m SPACINGS, 1.5m WIDTHS, 45° ANGLE. "TNSW" TECHNICAL DIRECTION TDT 2011/01A, FIGURE 2 & 4.
 - PROVIDE SIGNAGE FOR DESIGN SPEED IN ACCORDANCE WITH TNSW TDT 2011/01a.
 - PROVIDE TACILES (TGS) IN REFUGE ISLAND IN ACCORDANCE WITH STD. DRG. R-240-17.

WARNING SIGN AND TAPER DETAILS
REFER TNSW TDT 2011/01a

V (km/h)	T (m)	A (m)	W6-1 W6-3
40	17	80	A
50	20	95	B
60	25	115	
70	30	135	

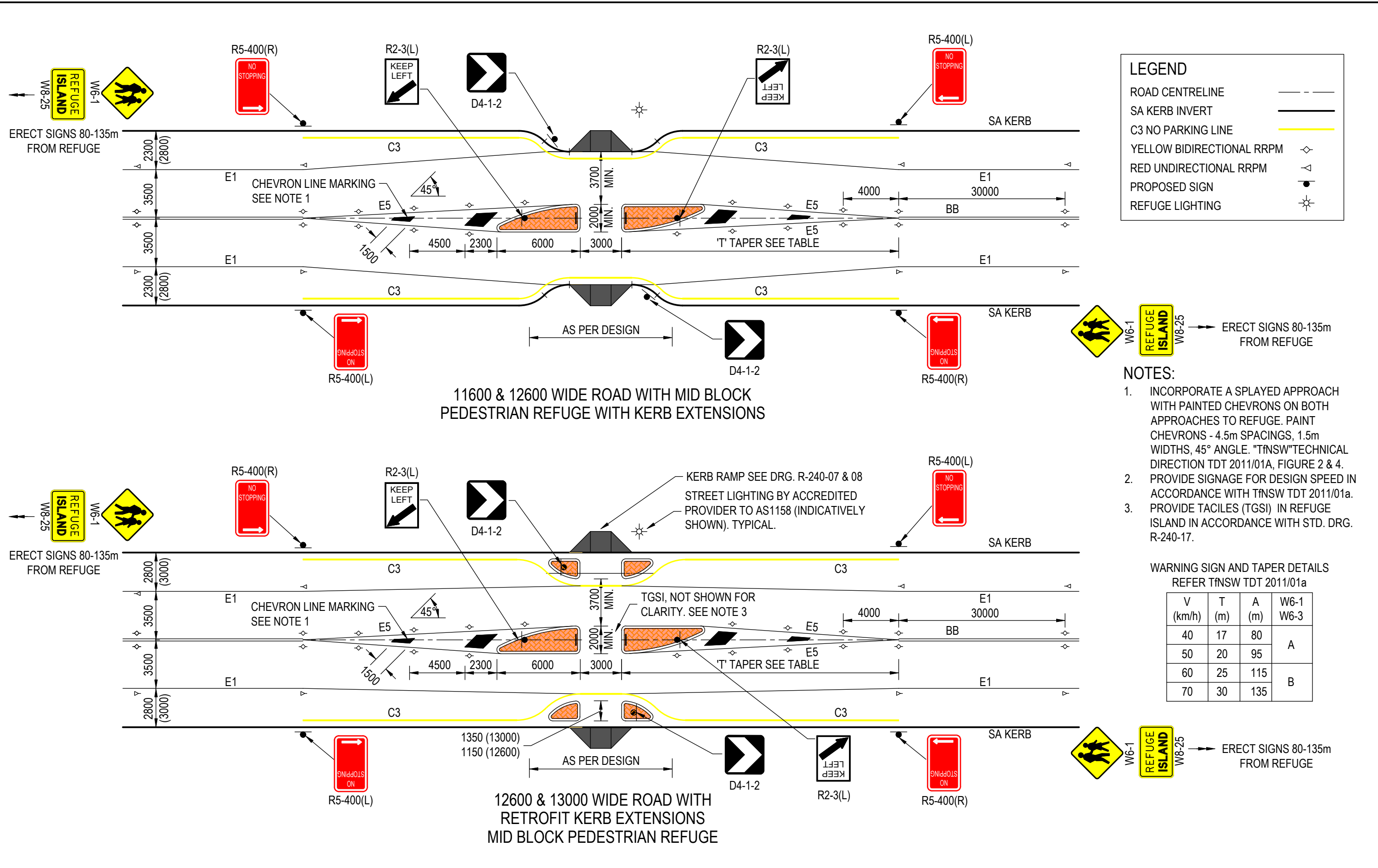
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Aprd.	Date

Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

PEDESTRIAN REFUGE
MID BLOCK CROSSING
SHEET 1 OF 2

Council Plan No.	
R-240-15	
Orig. Size	Revision
A3	1



LEGEND

ROAD CENTRELINE	---
SA KERB INVERT	—
C3 NO PARKING LINE	—
YELLOW BIDIRECTIONAL RRPM	◇
RED UNIDIRECTIONAL RRPM	▷
PROPOSED SIGN	●
REFUGE LIGHTING	☼

- NOTES:**
- INCORPORATE A SPLAYED APPROACH WITH PAINTED CHEVRONS ON BOTH APPROACHES TO REFUGE. PAINT CHEVRONS - 4.5m SPACINGS, 1.5m WIDTHS, 45° ANGLE. "TNSW" TECHNICAL DIRECTION TDT 2011/01A, FIGURE 2 & 4.
 - PROVIDE SIGNAGE FOR DESIGN SPEED IN ACCORDANCE WITH TNSW TDT 2011/01a.
 - PROVIDE TACILES (TGS) IN REFUGE ISLAND IN ACCORDANCE WITH STD. DRG. R-240-17.

WARNING SIGN AND TAPER DETAILS
REFER TNSW TDT 2011/01a

V (km/h)	T (m)	A (m)	W6-1 / W6-3
40	17	80	A
50	20	95	B
60	25	115	
70	30	135	

Drawn	B.P.S.					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

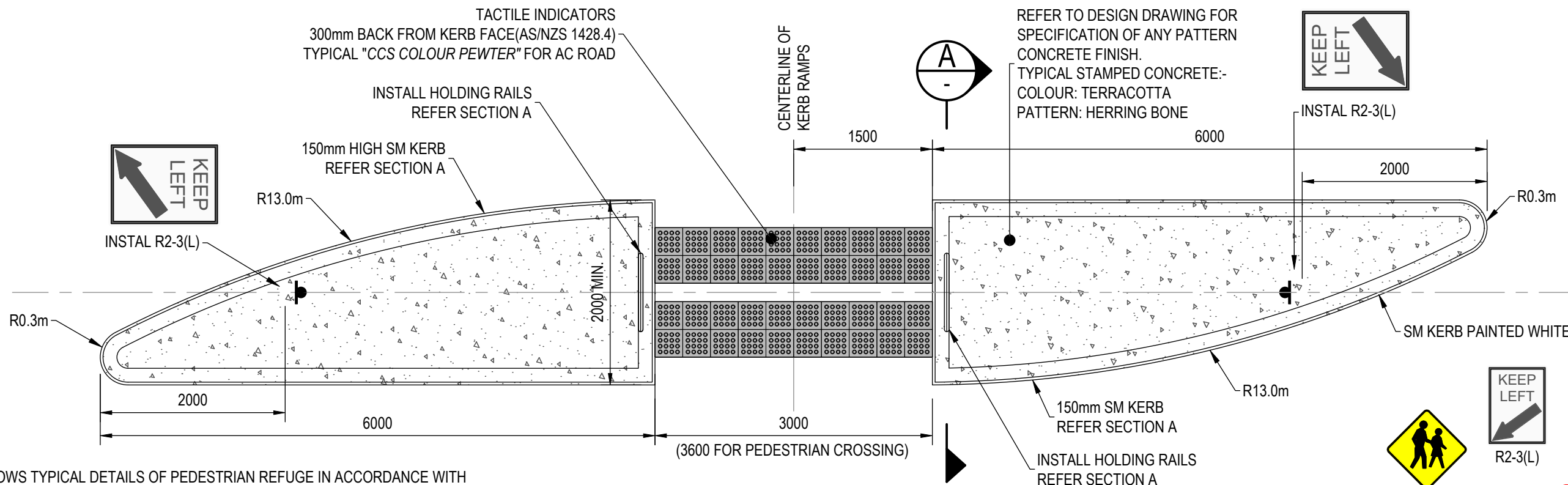
Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

PEDESTRIAN REFUGE
MID BLOCK CROSSING
SHEET 2 OF 2

Council Plan No. R-240-16

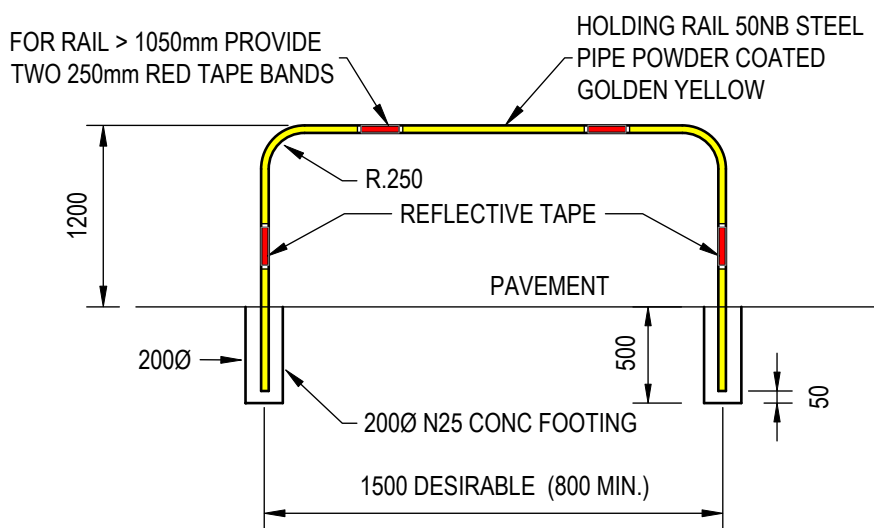
Orig. Size A3
Revision 1



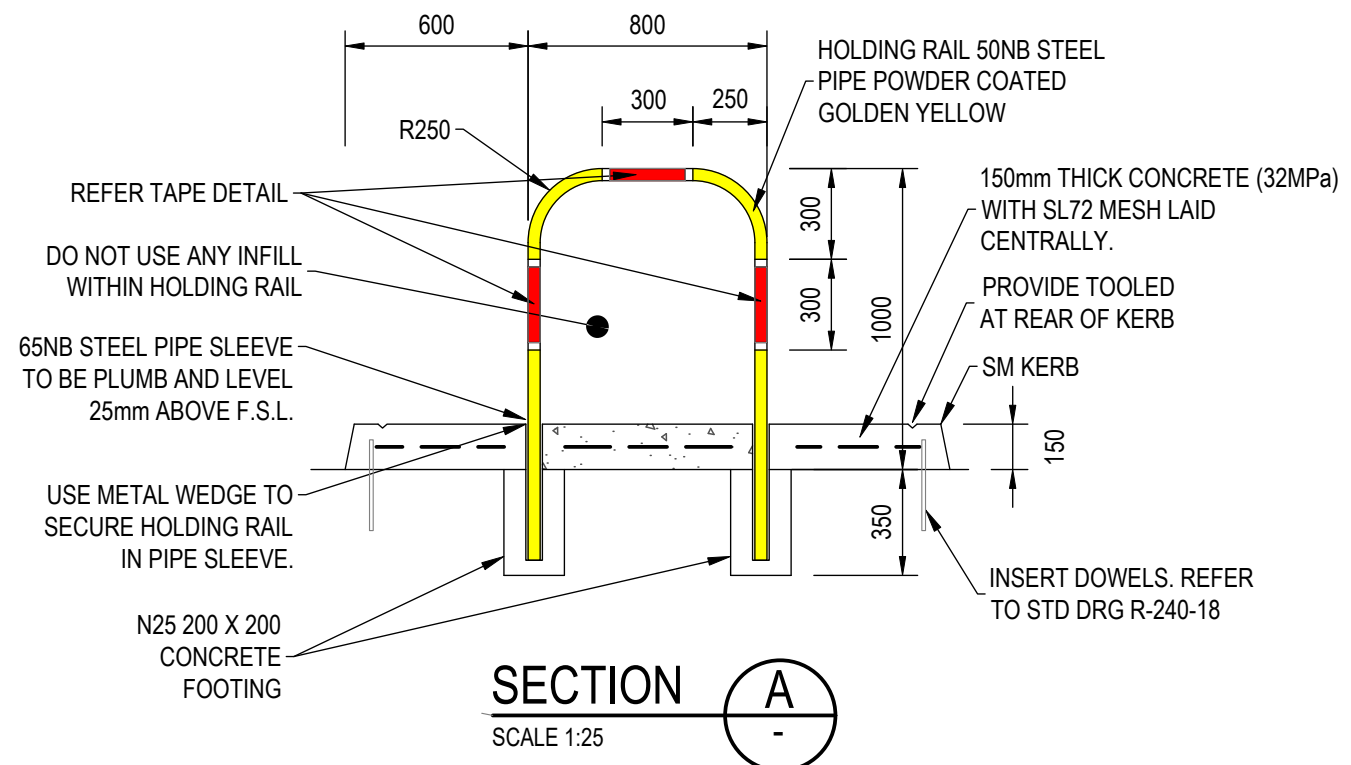
PEDESTRIAN REFUGE DETAIL
SCALE 1:50

- NOTES:**
1. PLANS SHOWS TYPICAL DETAILS OF PEDESTRIAN REFUGE IN ACCORDANCE WITH "TfNSW" TECHNICAL DIRECTION TDT 2011/01a, FIGURE 2 & 4.
 2. SUBJECT TO DETAIL DESIGN ROAD WIDENING OR KERB EXTENSION MAY BE REQUIRED.
 3. REFUGE ISLAND AT END NEAREST AN INTERSECTION OR DRIVEWAY MAYBE REDUCED TO 2m LONG. IF REQUIRED TO SUIT SWEEP PATHS.
 4. INCORPORATE A SPLAYED APPROACH WITH PAINTED CHEVRONS ON BOTH APPROACHES TO CENTRAL. PAINT CHEVRONS - 4.5m SPACINGS, 1.5m WIDTHS, 45° ANGLE. REFER TO TECHNICAL DIRECTION TfNSW TDT 2011/01A, FIGURE 2 & 4.
 5. PROVIDE SIGNAGE FOR DESIGN SPEED IN ACCORDANCE WITH TDT 2011/01a

(PROVIDE SIGNAGE & CHEVRON LINEMARKING FOR DESIGN SPEED IN ACCORDANCE TDT 2011/01a)

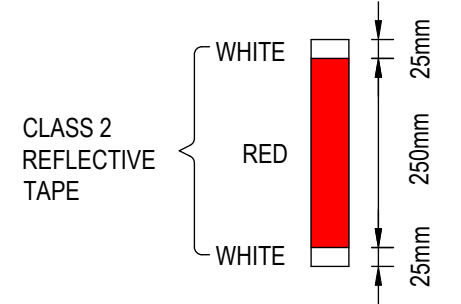


CYCLEWAY REFUGE HOLDING RAIL
DETAIL 1
SCALE N.T.S.



SECTION A
SCALE 1:25

(SHOWN FOR TYPICAL INTEGRAL POUR OF KERB PROFILE AND REFUGE ISLAND IN EXISTING AC ROAD)



TAPE DETAIL
NOT TO SCALE

NOTE: HOLDING RAIL MAY BE INCREASED UP TO A MAXIMUM OF 1500mm LONG FOR A WIDER REFUGE OR CYCLEWAY AS SHOWN ON DETAIL 1. CENTRALLY FIX REFLECTIVE TAPE BAND ON TOP OF ALL HOLDING RAILS. FOR RAIL WIDTHS > 1050mm, USE TWO 250mm WIDE RED TAPE BANDS

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

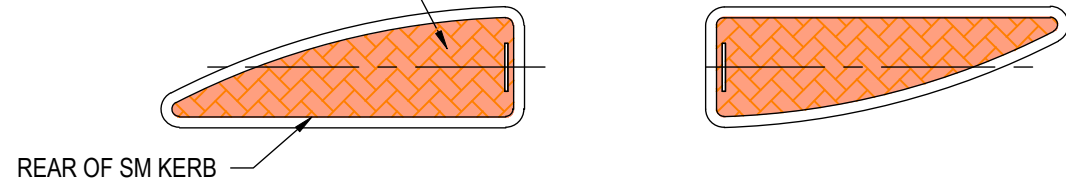
Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

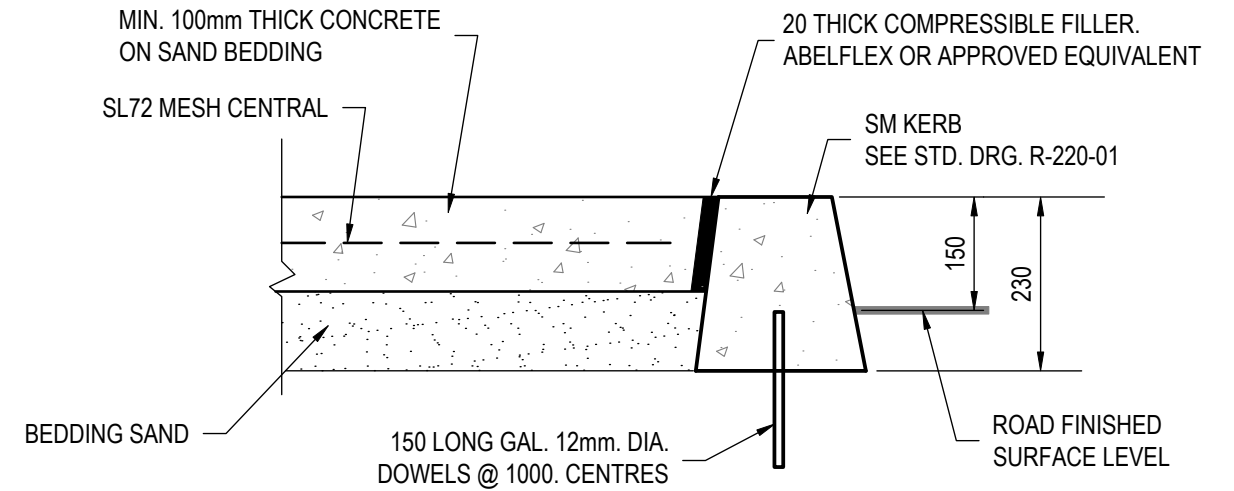
PEDESTRIAN REFUGE
TYPICAL DETAILS
SHEET 1 OF 2

Council Plan No.	
R-240-17	
Orig. Size	Revision
A3	1

STAMPED "PATTERN" TYPE CONCRETE
STENCIL IF SPECIFIED ON DESIGN PLAN
TYPICAL STAMPED CONCRETE:-
COLOUR: TERRACOTTA
PATTERN: HERRING BONE



STAMPED REFUGE ISLANDS

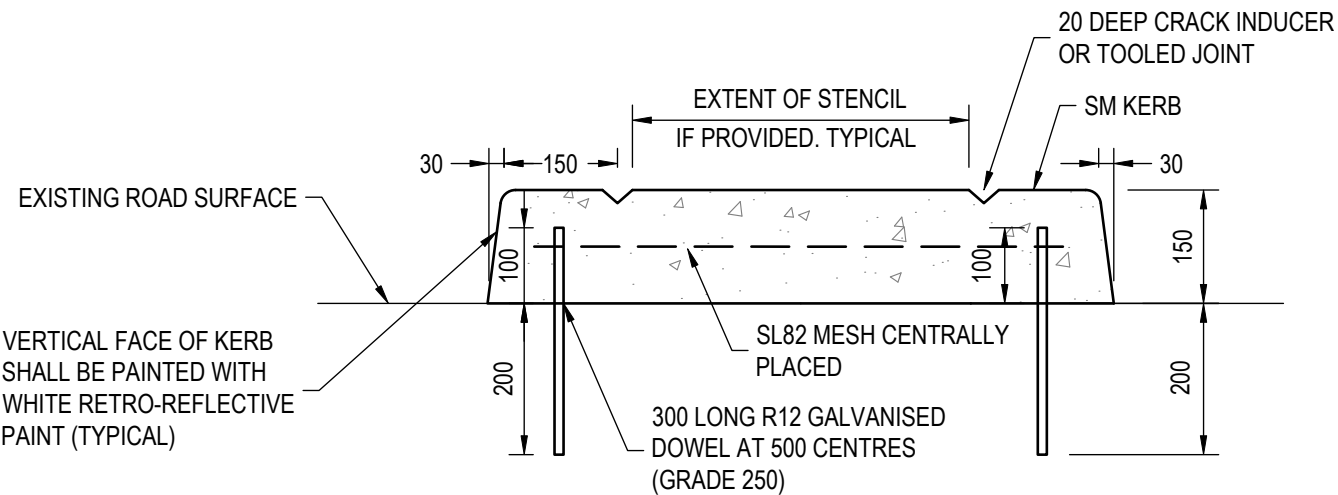


KERB PROFILE DETAIL FOR PEDESTRIAN REFUGE

(DETAIL SHOWN TYPICAL FOR NEW ROADS WORKS)

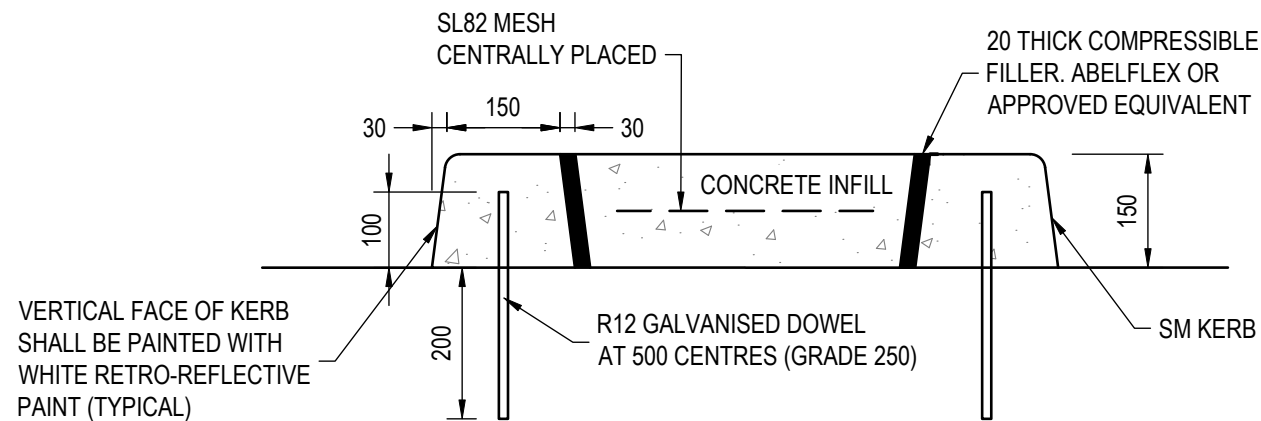
- PLACE ANCHOR SPIKES AT 1000mm INTERVAL IN ROAD TO FIX CONCRETE KERBING.
- DOWELS AND SPIKES ARE TO BE OFFSET 500mm TO EACH OTHER.
- ALL CONCRETE TO BE 32Mpa @ 28 DAYS.

ALTERNATE : Min. 200mm THICK CONCRETE INTEGRATING 'SM' TYPE KERB PROFILE



CAST IN-SITU BLISTER AND REFUGE ISLAND - ALTERNATIVE DETAIL

(DETAIL SHOWN TYPICAL FOR EXISTING ROAD)



CAST IN-SITU BLISTER AND REFUGE ISLAND

(DETAIL SHOWN TYPICAL FOR EXISTING ROAD)

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

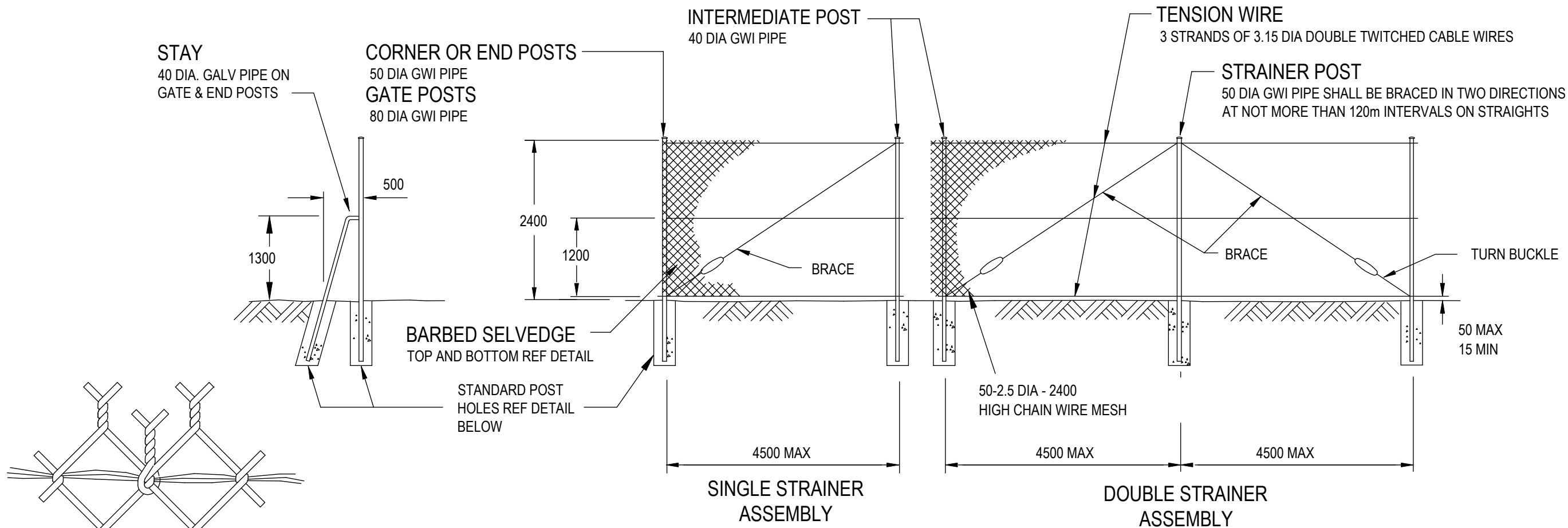
PEDESTRIAN REFUGE
TYPICAL DETAILS
SHEET 2 OF 2

Council Plan No.

R-240-18

Orig. Size Revision

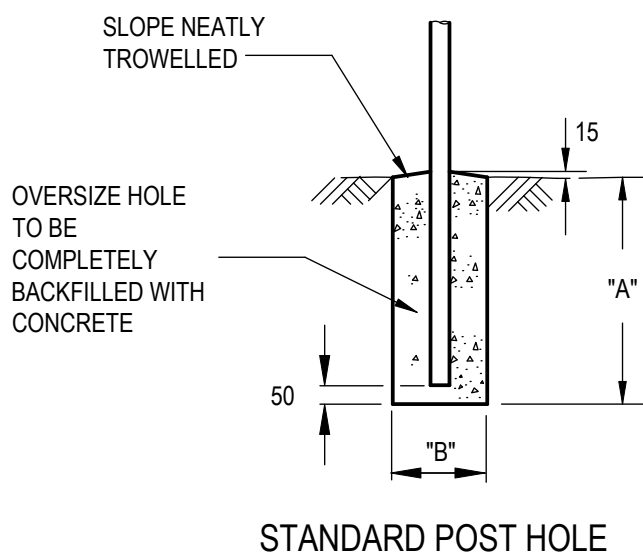
A3 1



GENERAL ARRANGEMENT

BARBED SELVEDGE DETAIL

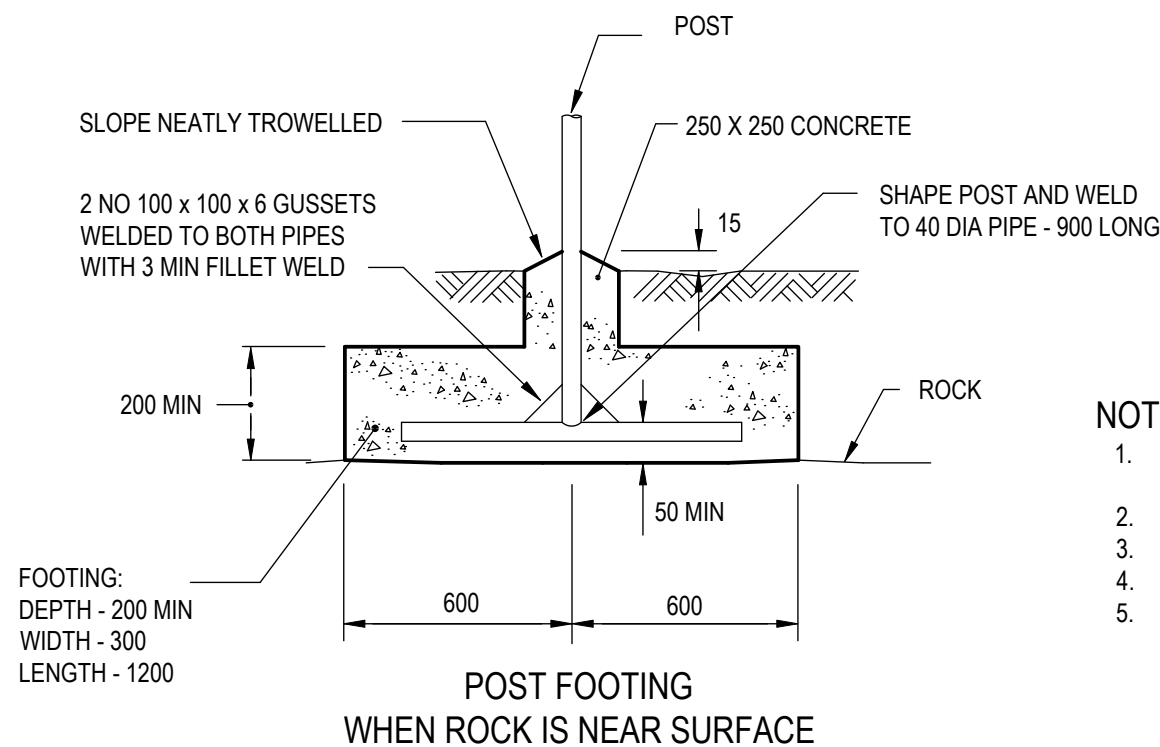
CHAIN WIRE SHALL BE TIGHTENED AND SECURELY FASTENED TO POSTS AT NOT MORE THAN 400mm INTERVALS AND TENSION WIRES AT NOT MORE THAN 500mm INTERVALS WITH 2.5Ø DIA GALVANIZED TIE WIRE OR APPROVED CLIPS.



STANDARD POST HOLE

POST HOLE DIMENSIONS TABLE

POSTS	"A"	"B"
INTERMEDIATE	600	250 DIA
CORNER, END OR STRAINER	750	250 DIA
GATE	1000	300 DIA



POST FOOTING WHEN ROCK IS NEAR SURFACE

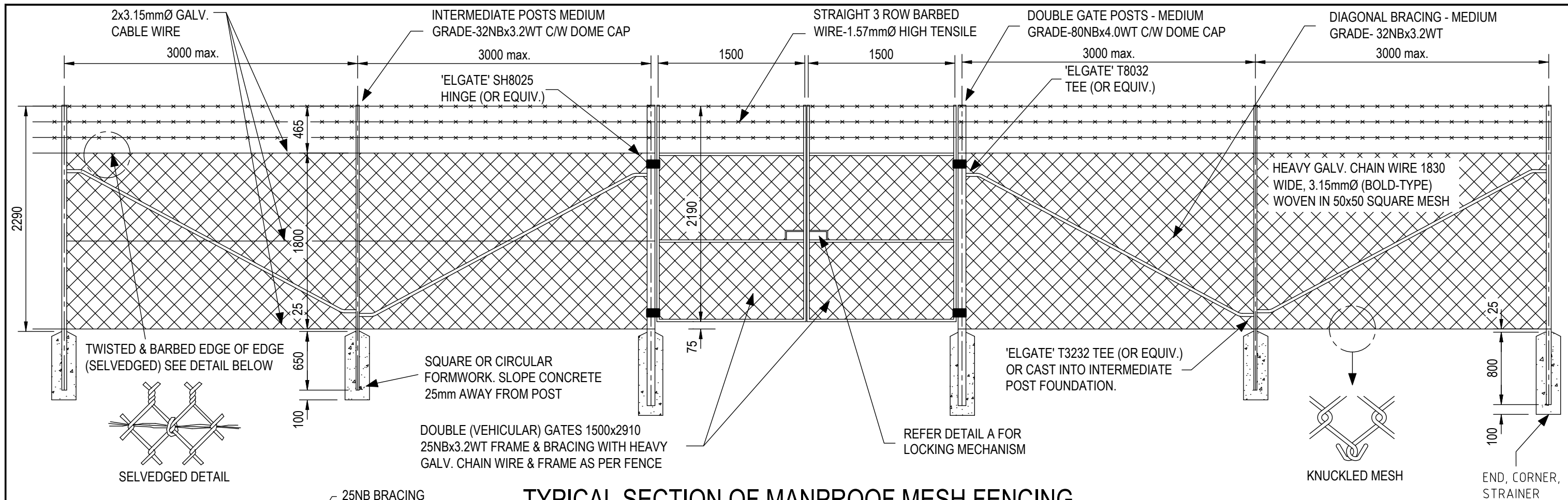
NOTES:

1. WHERE SPECIFIED A 300 WIDE x 50 THICK CONCRETE STRIP SHALL BE LAID AFTER ERECTION OF THE POSTS ALONG LINE OF FENCE FOR MAINTENANCE PURPOSES.
2. ALL PIPE DIAMETERS ARE NOMINAL BORE.
3. ALL FENCE FITTINGS SHALL BE APPROVED STANDARD FITTINGS. REFER AS 1725-2003.
4. BRACE - 10 DIA GALVANISED MS ROD AND TURNBUCKLE OR 4 CABLED 4Ø DIA WIRES.
5. PROVIDE ELECTRICAL INSULATION FOR FENCES IN THE VICINITY OF TRANSMISSION LINES AND TOWERS IN ACCORDANCE WITH ESSENTIAL ENERGY REQUIREMENTS.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Aprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

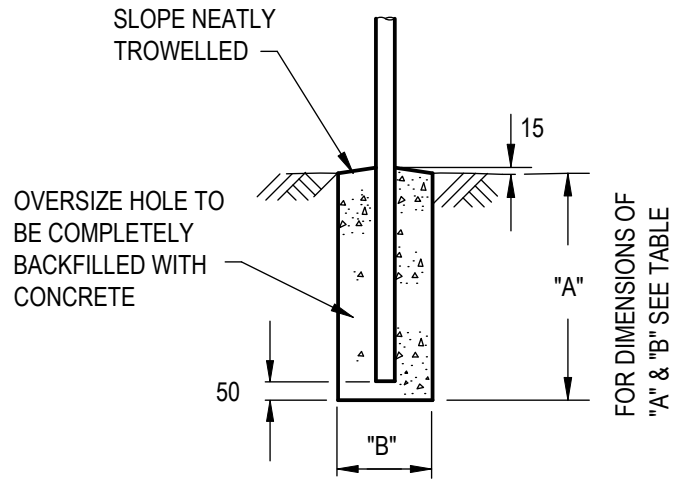
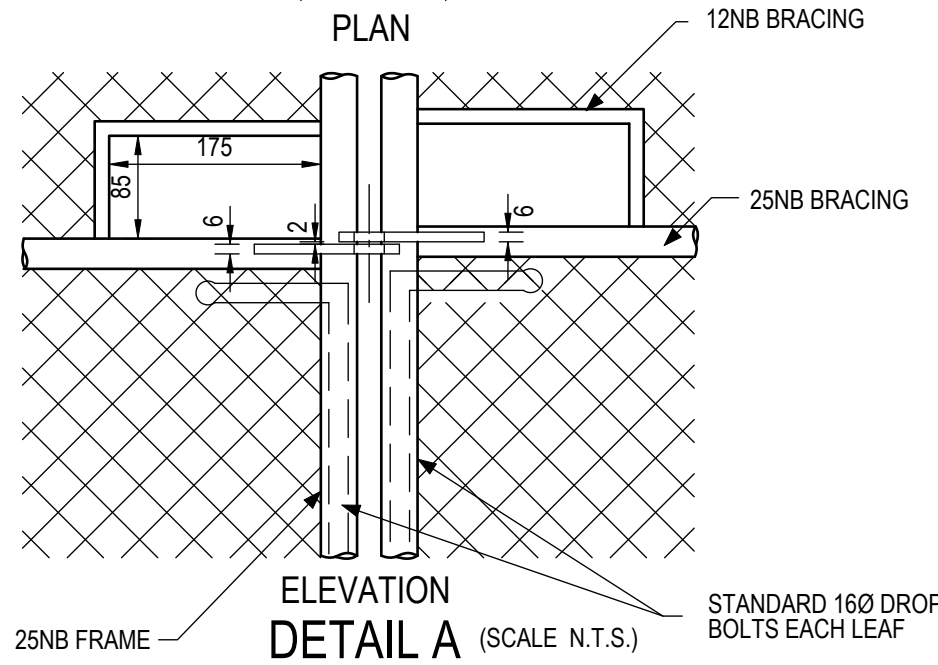
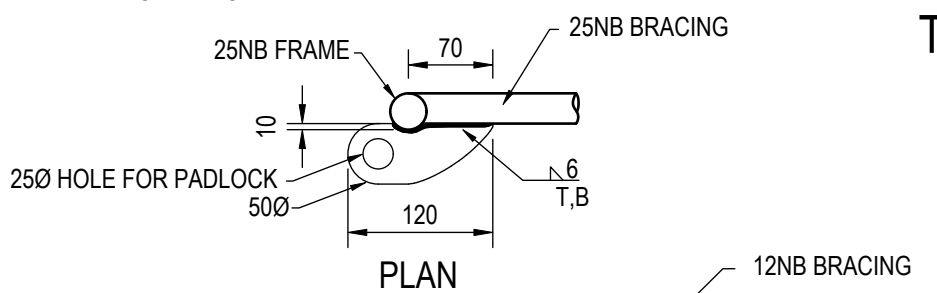
STANDARD DRAWINGS		Council Plan No.
2.4m HIGH MANPROOF CHAIN WIRE FENCE		R-250-01
Orig. Size	Revision	
A3	1	



TYPICAL SECTION OF MANPROOF MESH FENCING

POST HOLE DIMENSIONS TABLE

POSTS	"A"	"B"
INTERMEDIATE	600	250 DIA
CORNER, END OR STRAINER	750	250 DIA
GATE	1000	300 DIA



NOTES:

1. THE GATES FOR THE MANPROOF MESH FENCING SHALL BE OF HEAVY GALVANISED STEEL CONSTRUCTION.
2. THE MESH INFILLS SHALL BE CONSTRUCTED FROM HEAVY GALVANISED CHAIN WIRE MESH, 1830 WIDE, 3.15mmØ WOVEN TO A 50x50 SQUARE MESH.
3. BARBED WIRE INCLUDING BARBS SHALL BE 1.57mmØ GALVANISED HIGH TENSILE STEEL WIRE WITH CLUSTERS OF BARBS SPACED AT 90mm MAXIMUM.
4. CABLE WIRE SHALL CONSIST OF THREE PAIRS OF 2x3.15mmØ GALVANISED IRON WIRE TIGHTLY TWISTED AROUND POSTS
5. TIE WIRE SHALL BE 2mmØ GALVANISED WIRE OR PROPRIETARY CLIPS.
6. ALL GATES SHALL BE ERECTED SO THAT THEY SWING INWARD.
7. WHERE SPECIFIED, OR SHOWN ON THESE DRAWINGS, CHAIN WIRE MESH SHALL BE ERECTED ON THE OUTSIDE OF THE POSTS AND FASTENED WITH TWO TURNS OF THE WIRE TO EACH CABLE WIRE ON BOTH SIDES OF EACH POST AND AT INTERVALS OF NOT MORE THAN 900mm BETWEEN POSTS AND TO EACH POST MIDWAY BETWEEN CABLE WIRES.

WELDED LOCKING LUGS FOR VEHICLE GATES

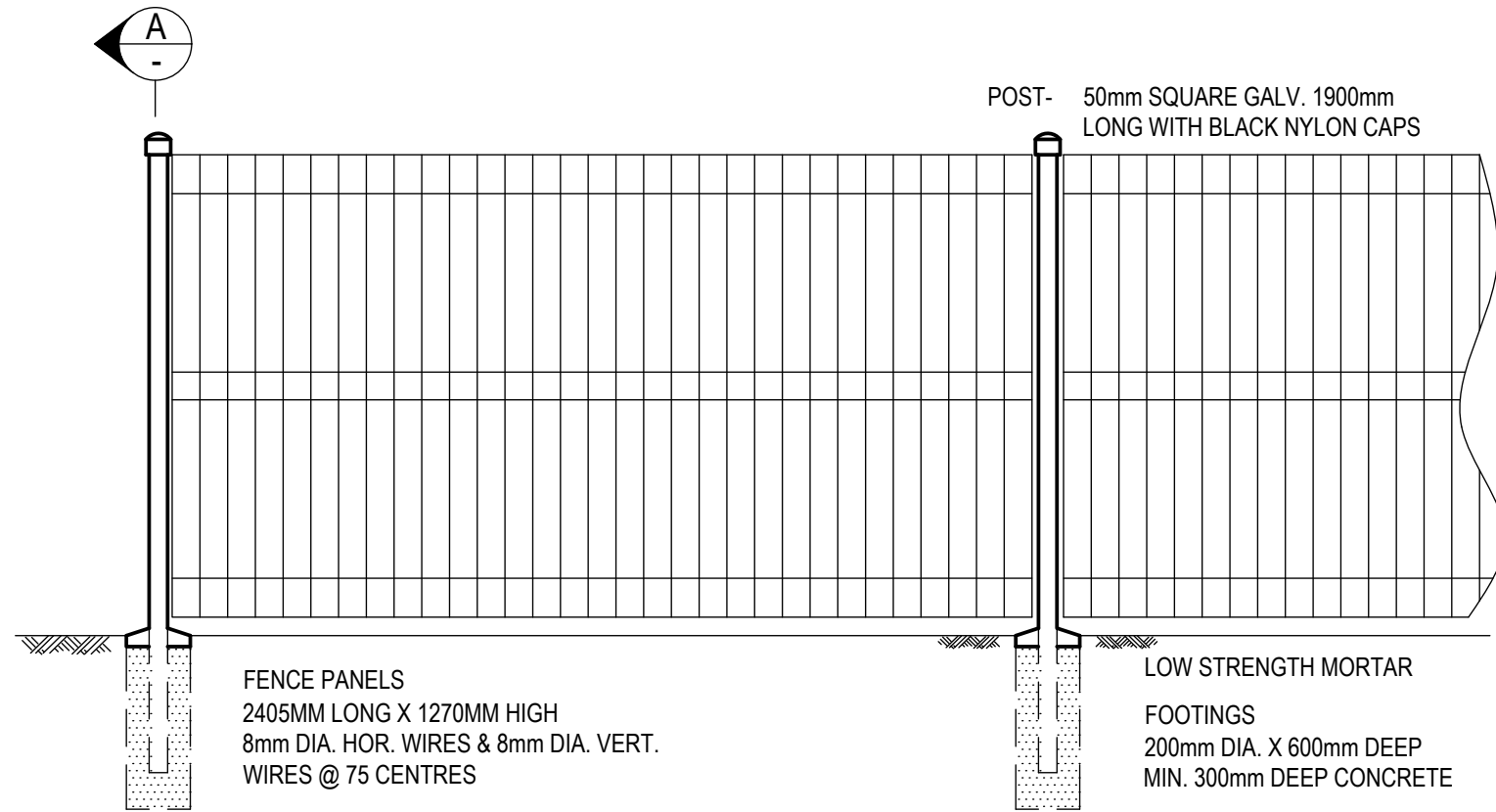
Drawn	B.P.S.					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

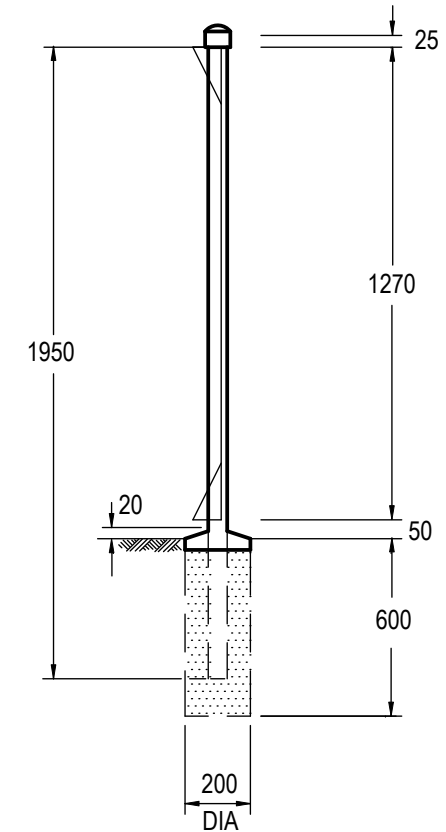
2.29m HIGH, 3 BARBED WIRE, MANPROOF CHAIN WIRE FENCE
TYPICAL DETAILS

Council Plan No.	
R-250-02	
Orig. Size	Revision
A3	1



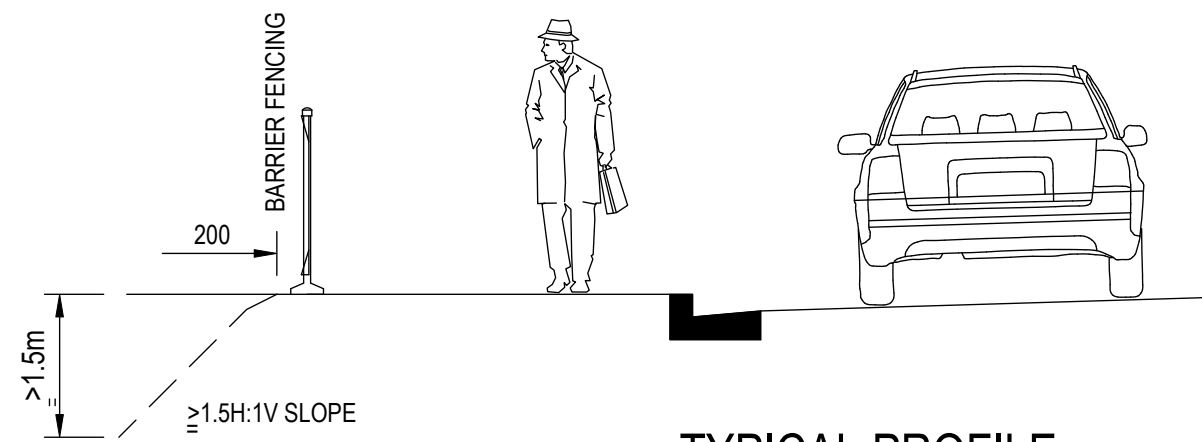
GENERAL ARRANGEMENT

SCALE 1:20



SECTION A-A

SCALE 1:20



TYPICAL PROFILE

SCALE 1:50

e.g. HEADWALL, STEEP DROP OFF OR EXCAVATION, LARGE OPEN DRAIN OR DEEP WATER

NOTES

1. BARRIER FENCING IS TO BE INSTALLED IN ACCORDANCE WITH THE CRITERIA AS SHOWN ON STD DRG R-250-13. WHERE A PARTIAL BARRIER FENCE IS LOCATED WITHIN THE CLEAR ZONE ADJACENT TO A ROAD A FULL BARRIER FENCE SHALL BE PROVIDED AS PER THE DETAIL SHOWN ON THE SHEET USING WELDED WIRE MESH (WELDMESH) TYPE SIMILAR TO A.R.C. FENCES TYPE 'WATTLE' WITH 8mm WIRES.
2. POST & HORIZONTAL RAIL BARRIER FENCING NEAR ROADWAYS SHOULD BE AVOIDED BUT IS ACCEPTABLE IF LOCATED OUTSIDE THE DESIRABLE 'CLEAR ZONE'.
3. THE LENGTH OF BARRIER FENCING IS TO EXTEND AT LEAST ONE PANEL BEYOND THE HAZARD & TURNED IN TO AVOID ACCESS BEHIND THE BARRIER & INTO THE HAZARD AREA.
4. WELDMESH PEDESTRIAN FENCING IS APPROPRIATE AT INTERSECTIONS WHERE PEDESTRIANS ARE TO BE DIRECTED TO CROSSING POINTS & TO PREVENT THEM FROM CROSSING AT HAZARDOUS LOCATIONS.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

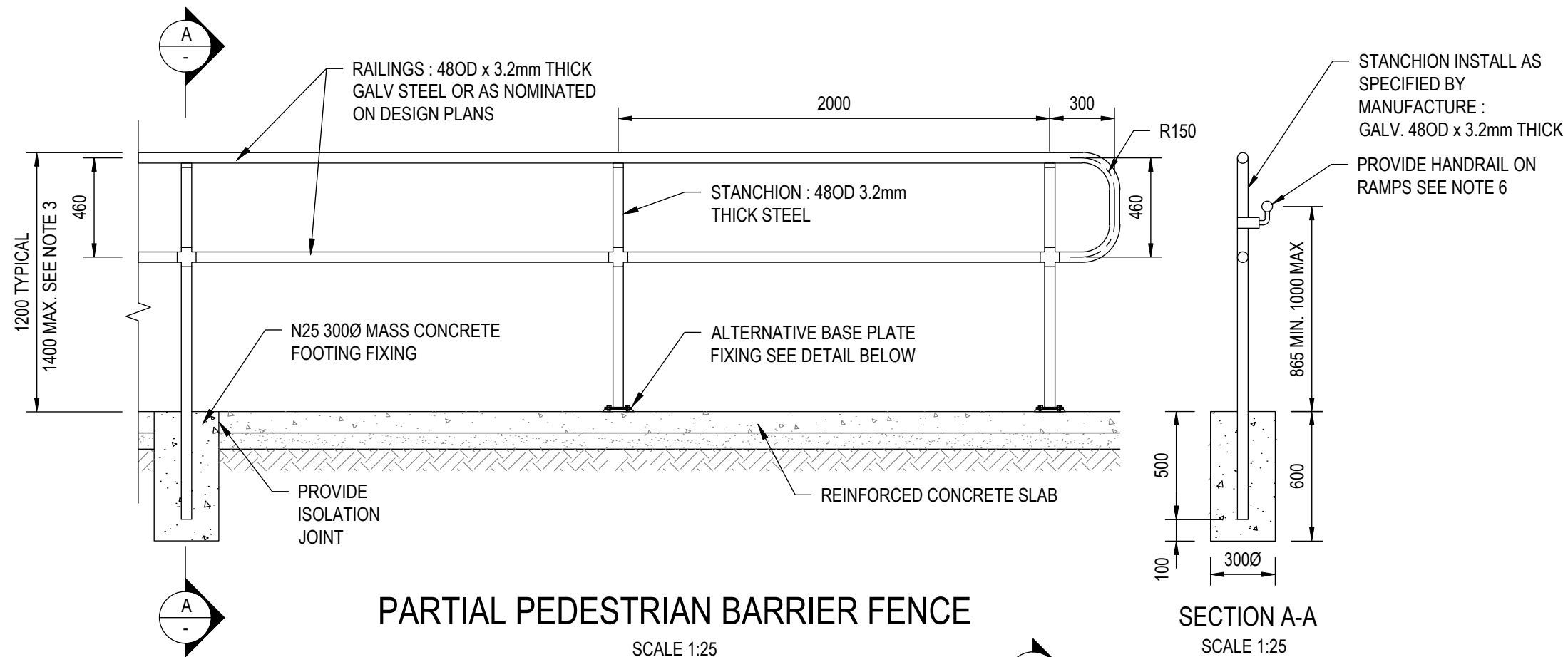
STANDARD DRAWINGS

TYPICAL WELDMESH FULL PEDESTRIAN BARRIER FENCING

Council Plan No.
R-250-03

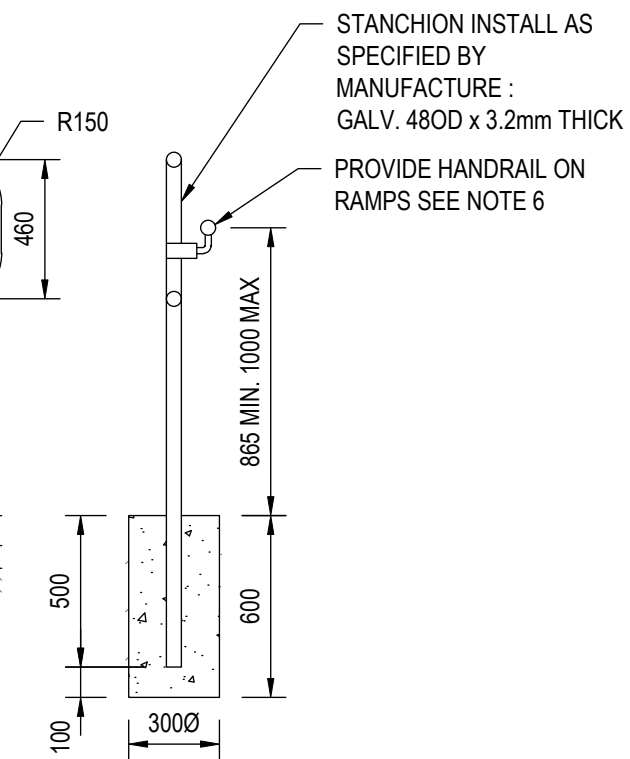
Orig. Size
A3

Revision
1



PARTIAL PEDESTRIAN BARRIER FENCE

SCALE 1:25

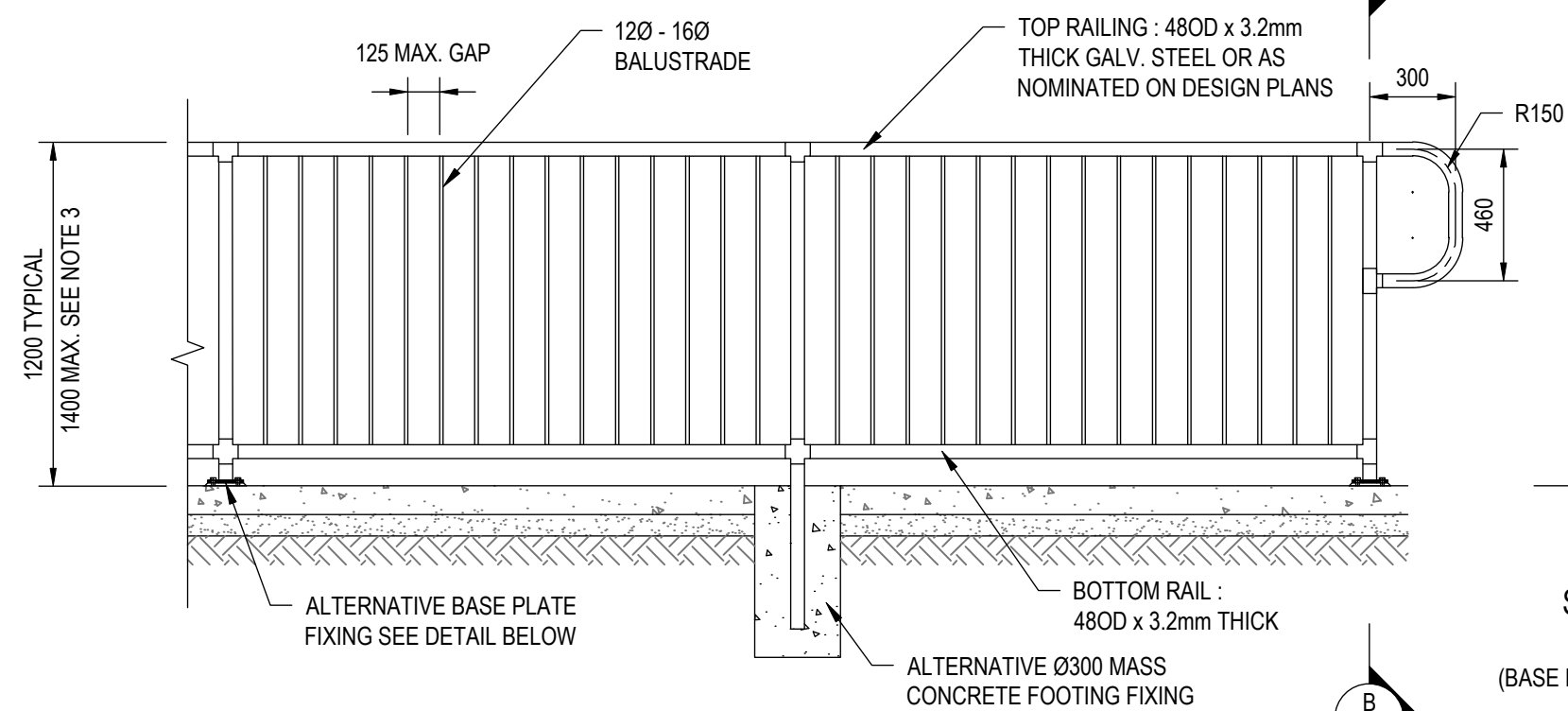


SECTION A-A

SCALE 1:25
(MASS CONC. FOOTING SHOWN)

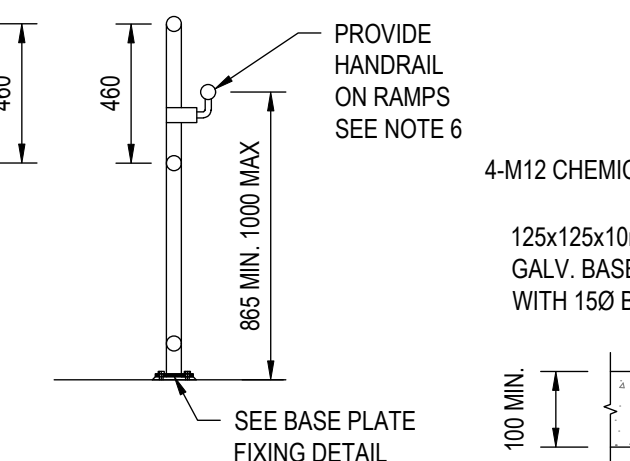
NOTES

1. PLAN SHOWS DETAIL FOR A TYPICAL PEDESTRIAN PATH PARTIAL & FULL BARRIER FENCING . OTHER TYPES OF PARTIAL & FULL FENCING MAY BE ADOPTED SUBJECT TO CITY APPROVAL.
2. REFER TO STANDARD DRAWING R-240-13 FOR TYPICAL FENCING & HAZARD REQUIREMENTS ADJACENTS BATTERS AND VERTICAL DROPS.
3. WHERE THE FENCE IS PROTECTING THE USER FROM A VERY SEVERE HARZARD THE FENCE HEIGHT SHALL BE 1400mm HIGH.
4. REFER AS1428.1, FIG 15A FOR ALTERNATIVE HANDRAIL TERMINATIONS.
5. REFER TO DESIGN PLANS FOR PEDESTRIAN FENCING MATERIALS. ALL STEEL OR ALUMINIUM COMPONENTS SHALL BE HOT DIPPED GALVANISED TO AS1214, AS4680 AND AS4792. CONSIDERATION SHALL BE GIVEN FOR THE USE OF STAINLESS STEEL COMPONENTS IN MARINE ENVIRONMENTS. COLOUR POWDER COATING MAY BE ACCEPTABLE SUBJECT TO CITY APPROVAL.
6. PATHS WITH GRADIENTS STEEPER THAN 5% ARE TO BE CONSIDERED AS RAMPs FOR DESIGN PURPOSES. PROVIDE DISABILITY ASSITING HANDRAILS ON RAMPs IN ACCORDANCE WITH AS1428.1. PROVIDE RAMP LANDINGS IN ACCORDANCE WITH AS1428.1.
7. WHERE A PARTIAL BARRIER FENCE IS LOCATED WITHIN THE CLEAR ZONE ADJACENT TO A ROAD A FULL BARRIER FENCE SHALL BE PROVIDED AS PER THE DETAIL SHOWN ON STD DRG R-250-03.



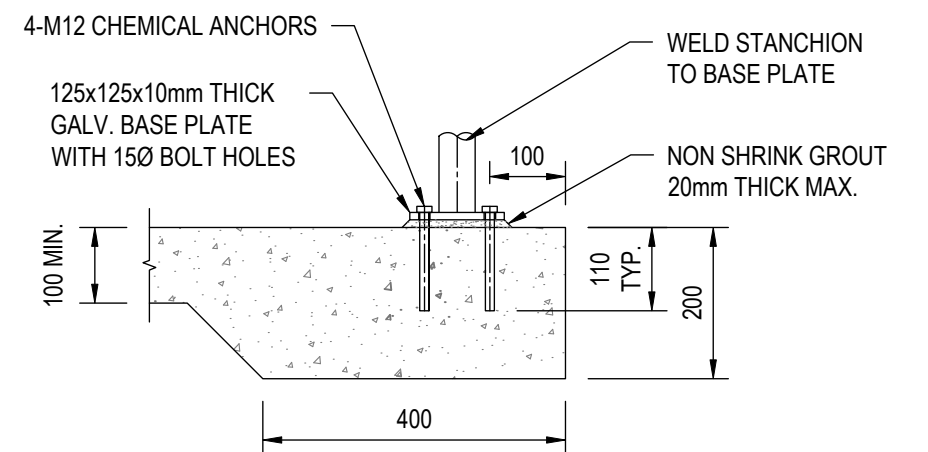
FULL PEDESTRIAN BARRIER FENCE

SCALE 1:25



SECTION B-B

SCALE 1:25
(BASE PLATE FIXING SHOWN)



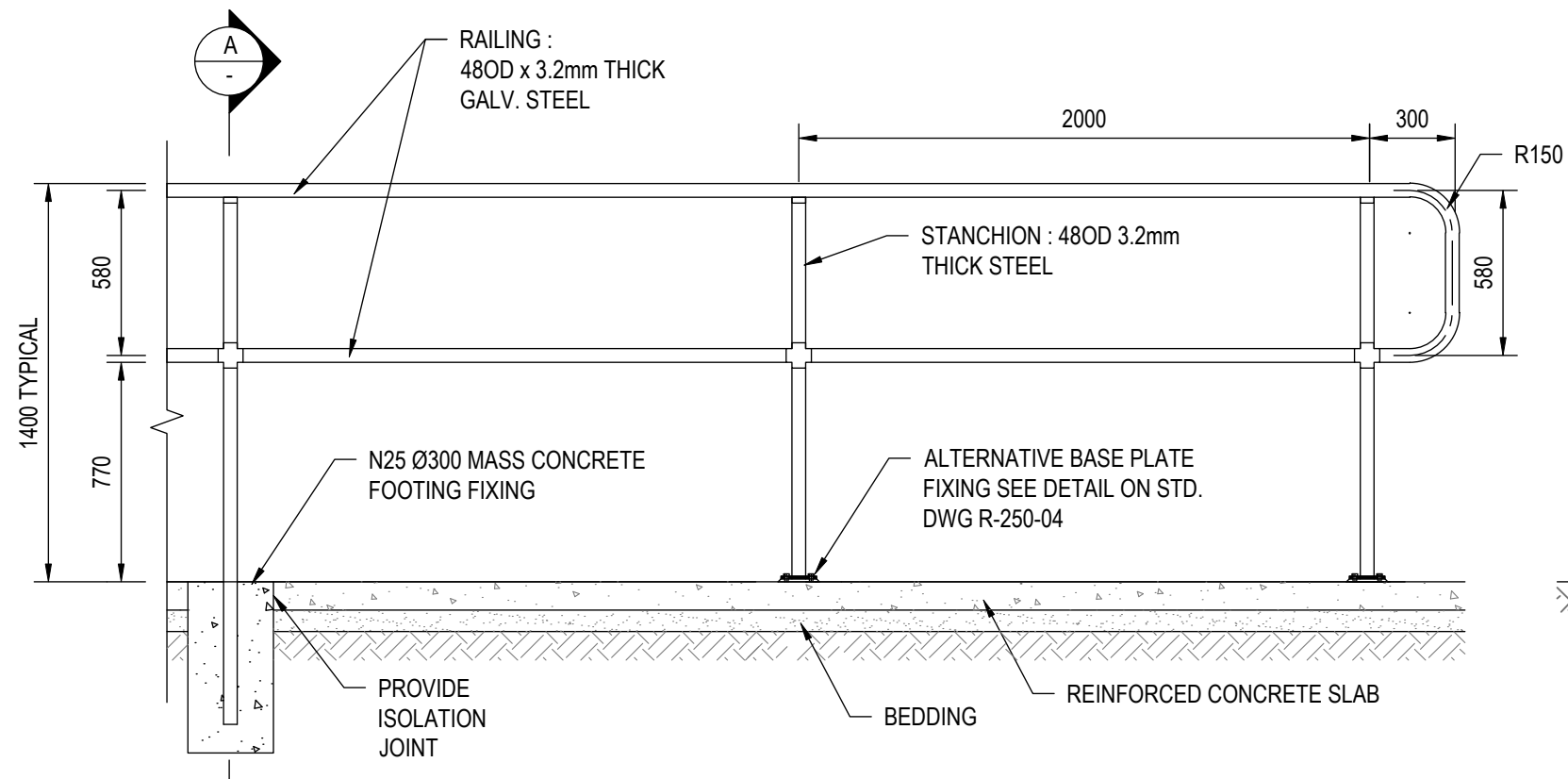
BASE PLATE FIXING DETAILS

SCALE 1:10

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

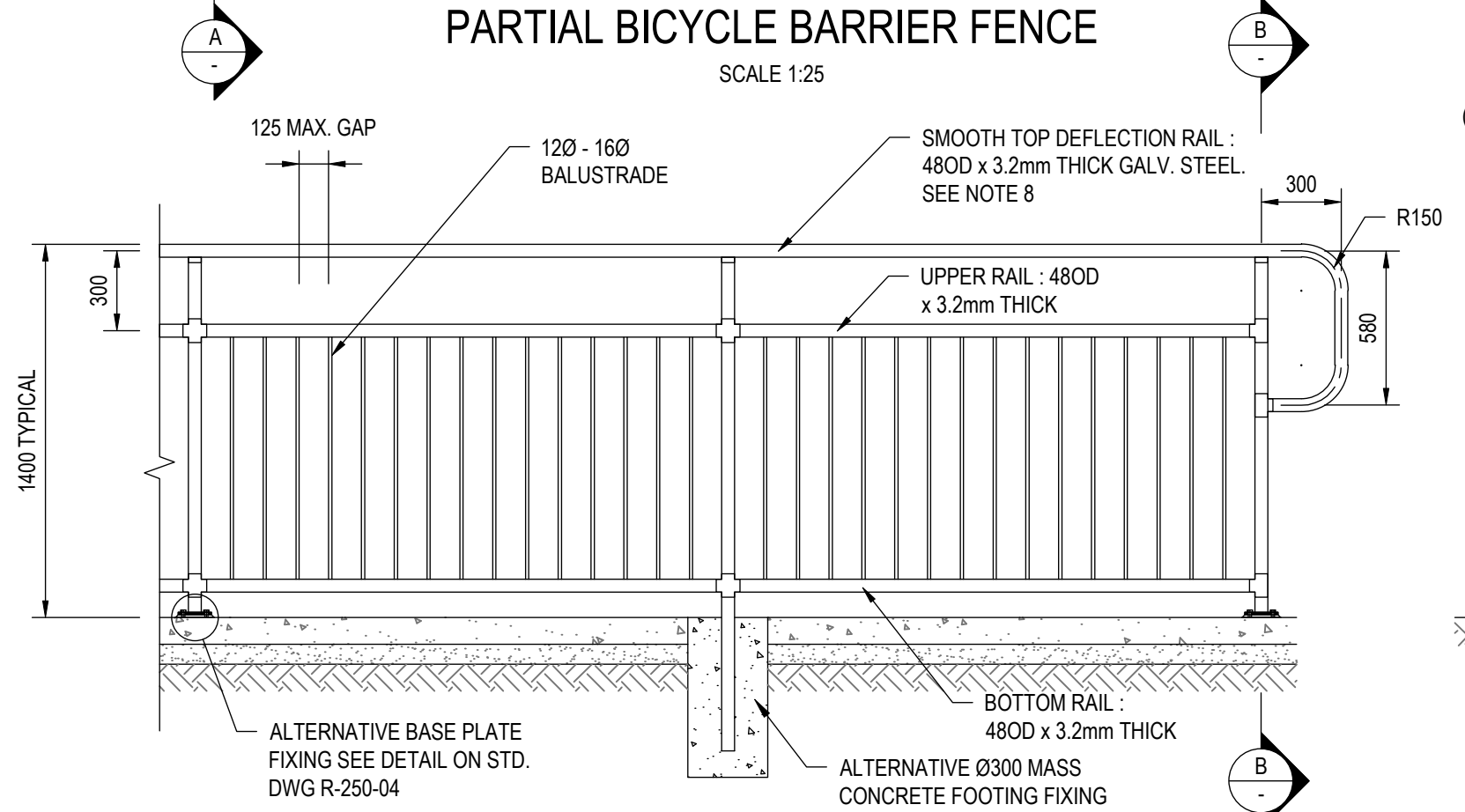
Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.
FULL AND PARTIAL BARRIER PEDESTRIAN FENCE		R-250-04
Orig. Size	Revision	
A3	1	



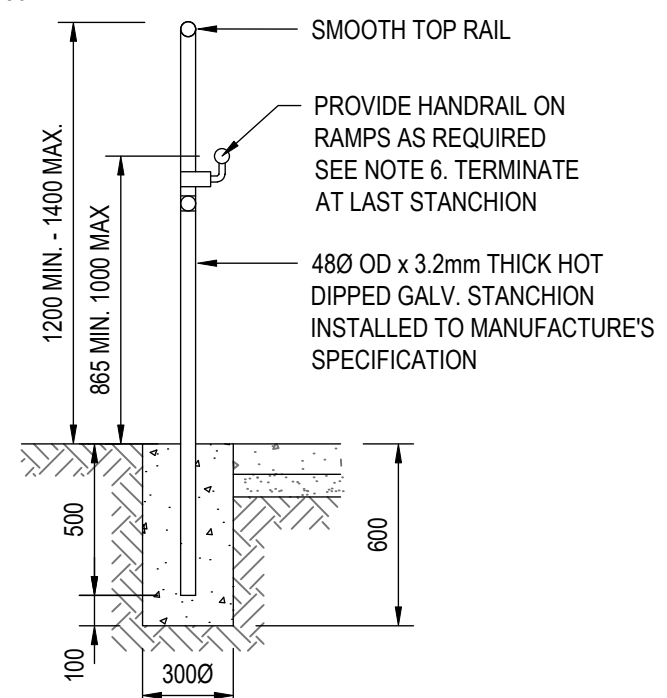
PARTIAL BICYCLE BARRIER FENCE

SCALE 1:25



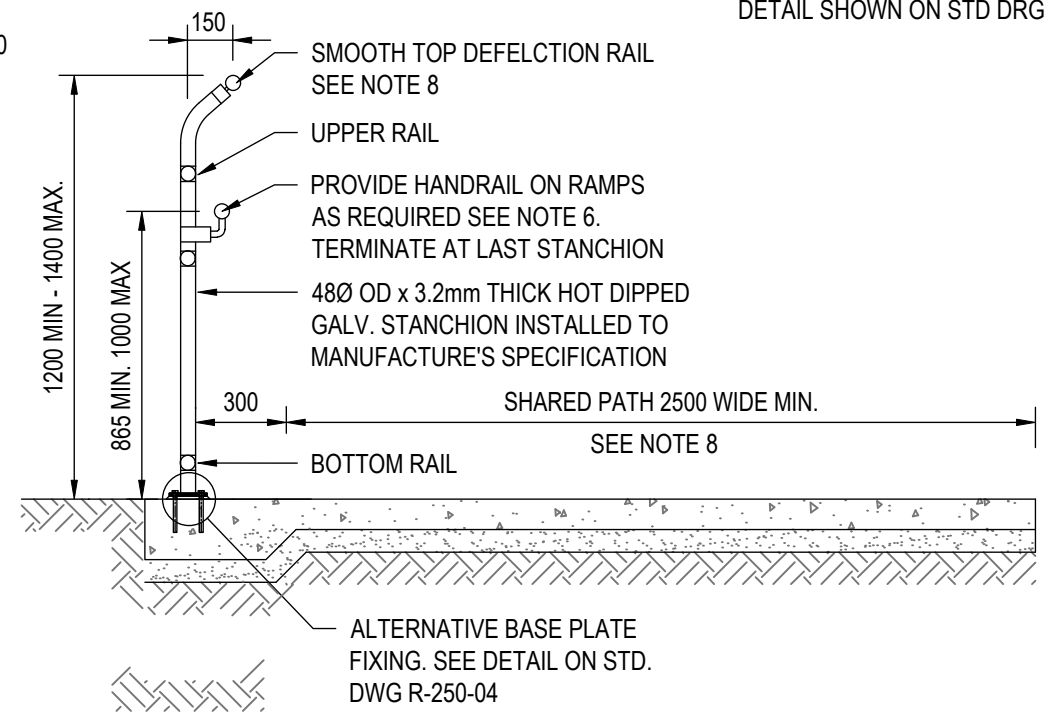
FULL BICYCLE BARRIER FENCE WITH DEFLECTION RAIL

SCALE 1:25



SECTION A-A

SCALE 1:25
(MASS CONC. FOOTING SHOWN)



SECTION B-B

SCALE 1:25

NOTES

1. PLAN SHOWS DETAIL FOR A TYPICAL SHARED / BICYCLE PATH PARTIAL & FULL BARRIER FENCING . OTHER TYPES OF PARTIAL & FULL FENCING MAY BE ADOPTED SUBJECT TO CITY APPROVAL.
2. REFER TO STANDARD DRAWING R-250-13 FOR THE CRITERIA USED TO DETERMINE THE TYPE OF FENCING ADJACENT BATTERS AND VERTICAL DROPS.
3. WHEN THE FENCE REQUIRES CONTAINMENT OF A CYCLIST THE FENCE HEIGHT SHALL BE 1400mm.
4. PROVIDE 5m FLARED BICYCLE RAIL TERMINAL IN ACCORDANCE WITH AGRD06A-17, FIGURE 5.13
5. REFER TO DESIGN PLANS FOR PEDESTRIAN FENCING MATERIALS. ALL STEEL COMPONENTS SHALL BE HOT DIPPED GALVANISED TO AS1214, AS4680 AND AS4792. CONSIDERATION SHALL BE GIVEN FOR THE USE OF STAINLESS STEEL OR ALUMINUM COMPONENTS IN MARINE ENVIRONMENTS. COLOUR POWDER COATING MAY BE ACCEPTABLE SUBJECT TO APPROVAL.
6. PATHS WITH GRADIENTS STEEPER THAN 5% ARE TO BE CONSIDERED AS RAMPS FOR DESIGN PURPOSES. PROVIDE DISABILITY PEDESTRIAN ASSITING HANDRAILS ON RAMPS IN ACCORDANCE WITH AS1428.1. PROVIDE RAMP LANDINGS IN ACCORDANCE WITH AS1428.1.
7. PROVIDE FULL BARRIER FENCE BICYCLE DEFLECTION RAILS WHERE FENCE IS 300mm MINIMUM OFFSET FROM EDGE OF SHARED PATH.
8. WHERE A PARTIAL BARRIER FENCE IS LOCATED WITHIN THE CLEAR ZONE ADJACENT TO A ROAD A FULL BARRIER FENCE SHALL BE PROVIDED AS PER THE DETAIL SHOWN ON STD DRG R-250-03.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour, NSW, 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

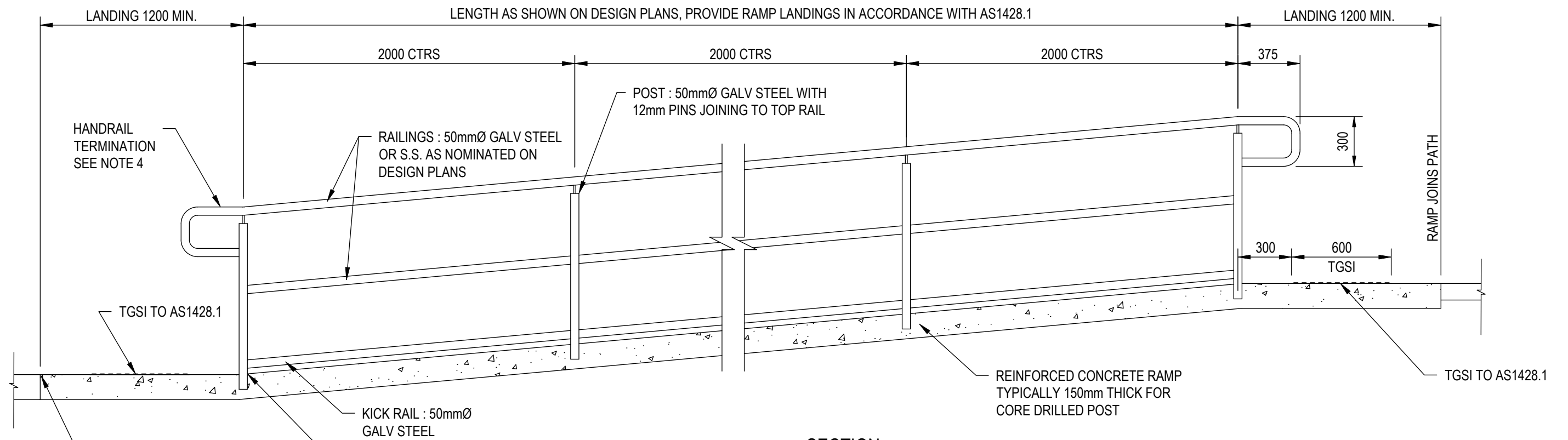
STANDARD DRAWINGS

FULL AND PARTIAL BARRIER BICYCLE FENCE

Council Plan No.
R-250-05

Orig. Size
A3

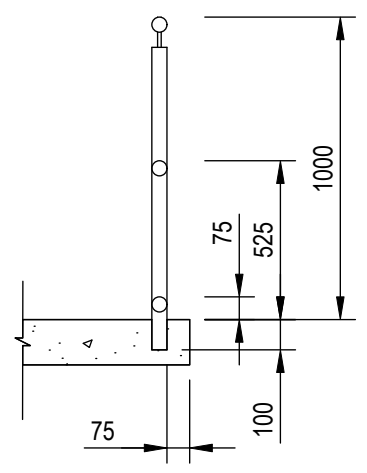
Revision
1



SECTION
RAMP HANDRAIL DETAIL
 SCALE 1:25

FOOPATHS GRADIENTS AND LANDING SPACING		
CROSSFALL		LONGITUDINAL GRADE
MIN.	MAX.	MAX.
1%	2.5%	5% (SEE NOTE 2)
* LANDING SPACING		
		< 3% N/A
		3% 25m MAX.
		5% 15m MAX.
		7.14% 9m MAX.

* INTERPERATION LANDING SPACING FOR GRADES BETWEEN 5% - 7.14%



ELEVATION
 SCALE 1:25

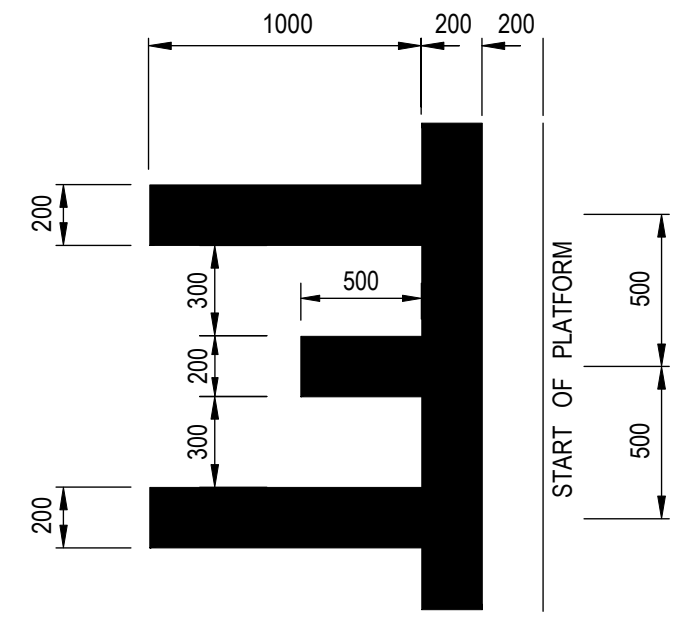
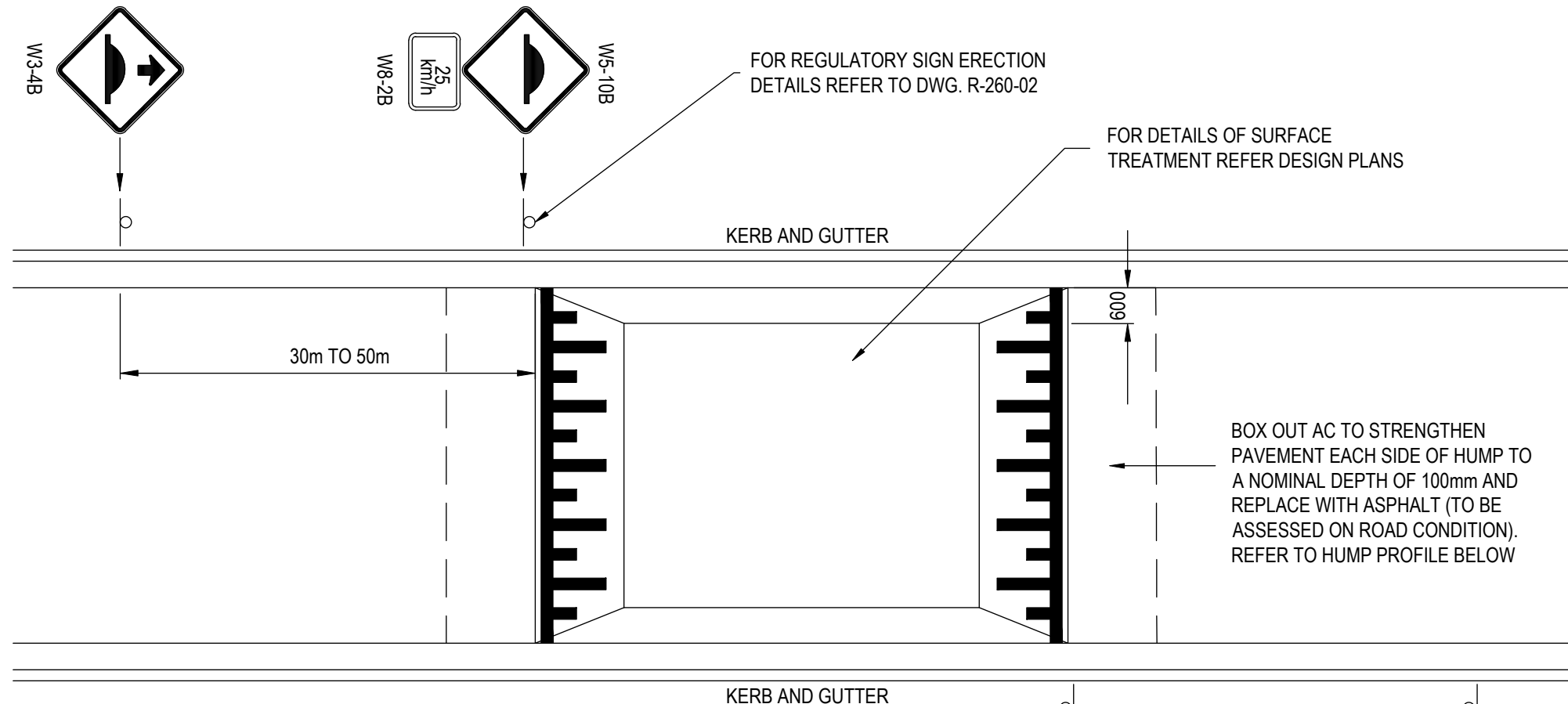
- NOTES**
1. PLAN SHOWS INDICATIVE DETAIL FOR TYPICAL PEDESTRIAN RAMP HANDRAIL.
 2. PATHS WITH GRADIENTS STEEPER THAN 5% ARE TO BE CONSIDERED AS RAMPS FOR DESIGN PURPOSES. CONSIDER THE USE OF HANDRAILS FOR PATHS NOT IN ROAD RESERVE, WHICH ARE CONSIDERED AS RAMPS, IN ACCORDANCE WITH AS1428.1.
 3. PROVIDE RAMP LANDINGS IN ACCORDANCE WITH AS1428.1. SEE TABLE ABOVE.
 4. REFER AS1428.1, FIG 15A FOR ALTERNATIVE HANDRAIL TERMINATIONS
 5. REFER TO DESIGN PLANS FOR PEDESTRIAN FENCING MATERIALS. ALL STEEL COMPONENTS SHALL BE HOT DIPPED GALVANISED TO AS1214, AS4680 AND AS4792. CONSIDERATION SHALL BE GIVEN FOR THE USE OF STAINLESS STEEL OR ALUMINIUM COMPONENTS IN MARINE ENVIRONMENTS. COLOUR POWDER COATING MAY BE ACCEPTABLE SUBJECT TO CITY APPROVAL.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
 Coffs Harbour. NSW. 2450
 Ph. (02)66484000
 www.coffsharbour.nsw.gov.au
 coffs.council@chcc.nsw.gov.au

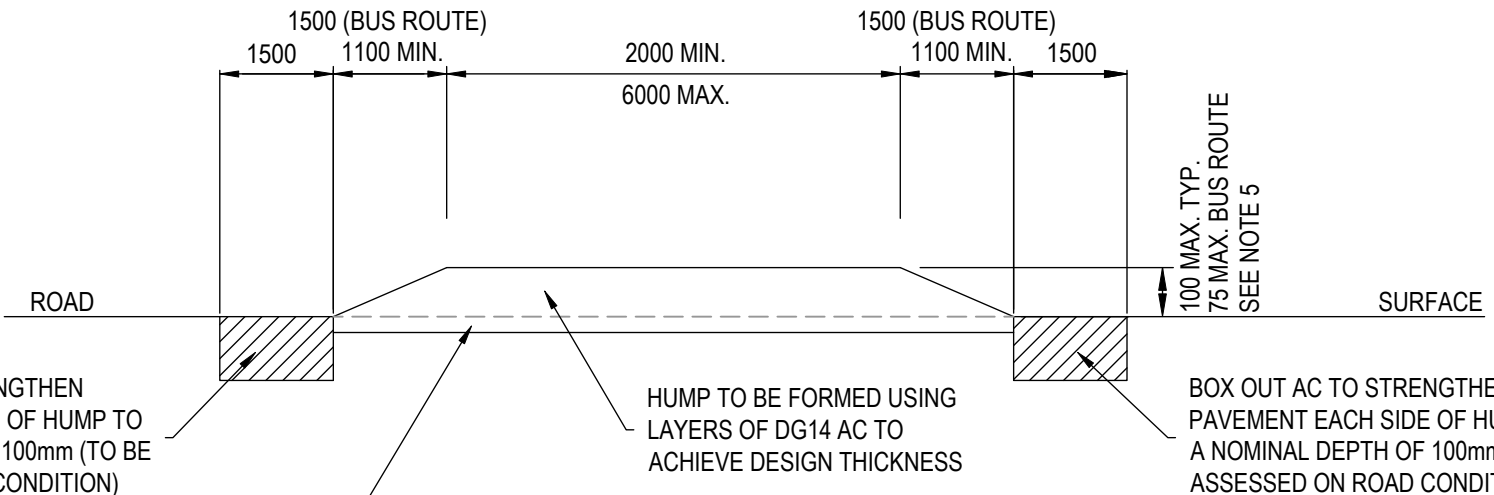
STANDARD DRAWINGS
PEDESTRIAN RAMP HANDRAIL

Council Plan No.	
R-250-06	
Orig. Size	Revision
A3	1



LINE MARKING DETAIL

PLAN
NOT TO SCALE



ELEVATION
NOT TO SCALE

NOTES

1. TAPER THE LAST 600mm AT EACH END TO BE FLUSH TO THE LIP OF KERB TO PROVIDE FOR DRAINAGE.
2. LINE MARKING TO BE IN ACCORDANCE WITH AS1742.
3. SIGN W3-4B & SIGN ASSEMBLIES W5-10B/W8-2B ARE NOT GENERALLY REQUIRED WHEN THE DEVICE IS PART OF AN AREA WIDE SCHEME.
4. THE MINIMUM & MAXIMUM DIMENSIONS SHOWN IN THE HUMPS PROFILE ARE SITE SPECIFIC. FURTHER INSTRUCTIONS ARE TO BE SOUGHT FROM THE ASSET OWNER TO DETERMINE THE REQUIRED PROJECT DIMENSIONS PRIOR TO CONSTRUCTION.
5. WHERE THE RAISED PLATFORM IS LOCATED ON A BUS ROUTE THE HEIGHT SHALL BE A MAXIMUM 75mm AND A LENGTH OF 6000mm ADOPTED FOR THE TOP OF THE PLATFORM.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

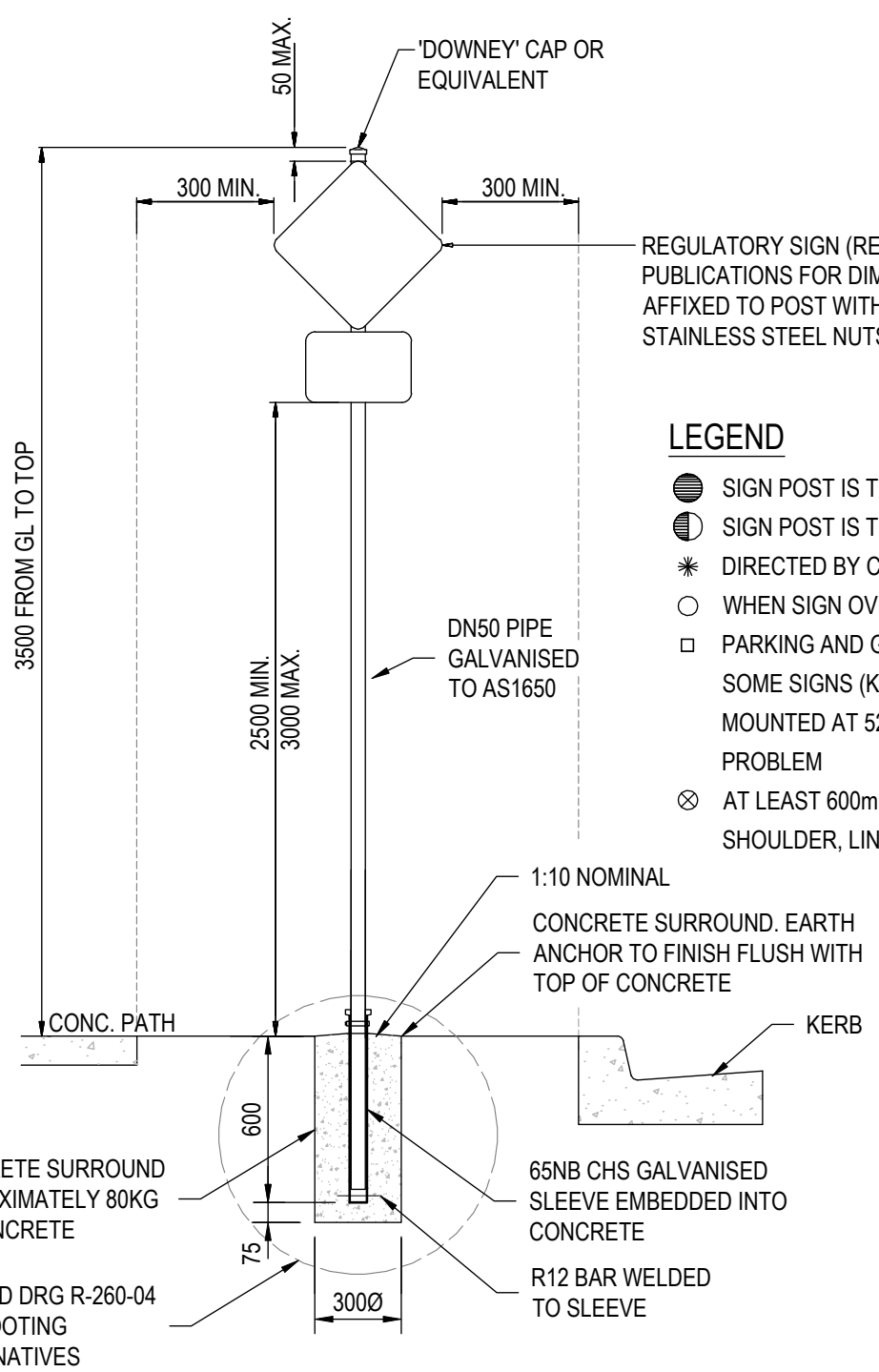
STANDARD DRAWINGS

RAISED PLATFORM
TYPICAL DETAILS

Council Plan No.
R-260-01

Orig. Size
A3

Revision
1



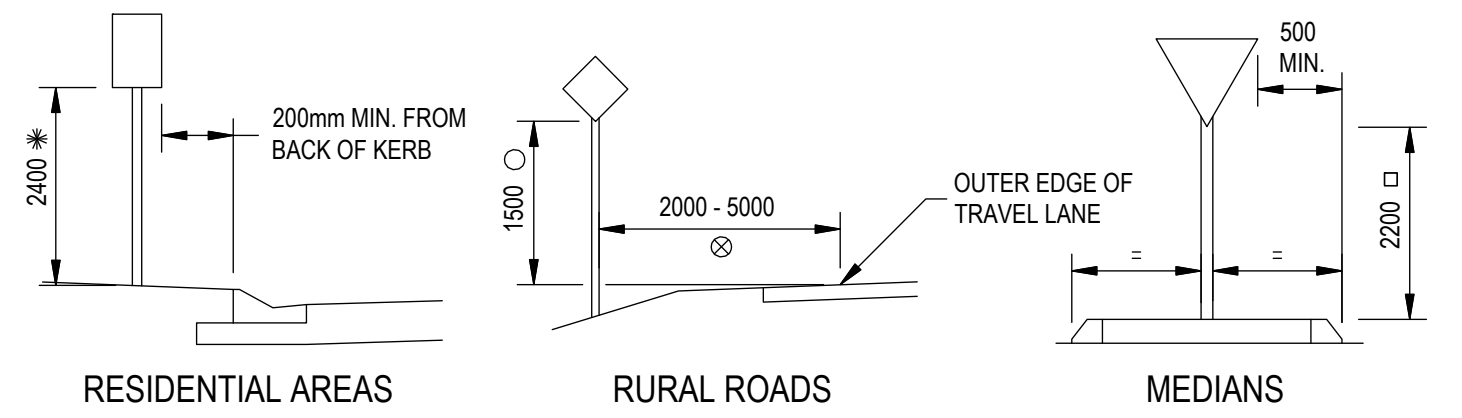
REGULATORY SIGN (REFER TO TfNSW PUBLICATIONS FOR DIMENSIONS) AFFIXED TO POST WITH GALVANIZED OR STAINLESS STEEL NUTS & BOLTS

LEGEND

- SIGN POST IS TO BE LOCATED 750mm BEHIND NOMINAL KERB LINE
- ◐ SIGN POST IS TO BE LOCATED 2000mm FROM EDGE OF SEAL, OR AS
- * DIRECTED BY COUNCIL.
- WHEN SIGN OVERHANGS A FOOTPATH, DIMENSION TO BE 2500mm.
- PARKING AND GUIDE SIGNS TO BE 2200 ABOVE ROAD SURFACE. SOME SIGNS (KEEP LEFT, NO U-TURN, D4 HAZARD SERIES) TO BE MOUNTED AT 525. HEIGHT CAN BE ADJUSTED IF THERE IS A VISIBILITY PROBLEM
- ⊗ AT LEAST 600mm CLEARANCE TO BE PROVIDED TO OUTER EDGE OF SHOULDER, LINE OF GUIDE POSTS OR GUARDRAIL

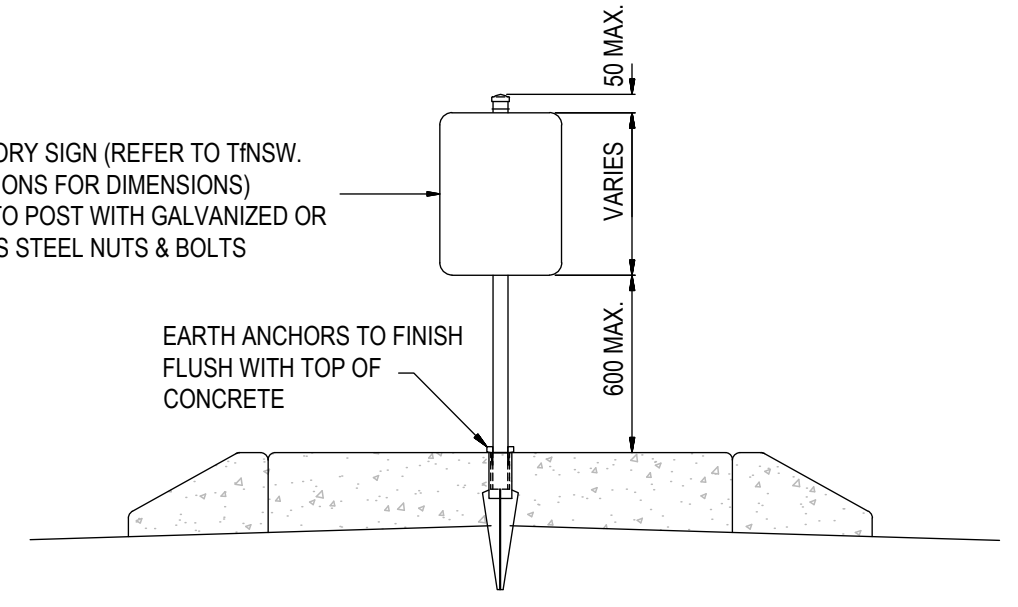
ROAD SIGNS

- NOTES:
- ALL SIGNS SHALL COMPLY WITH A.S.1742.5
 - CONCRETE SURROUND TO BE N20 IN ACCORDANCE WITH AS1379 & AS3600



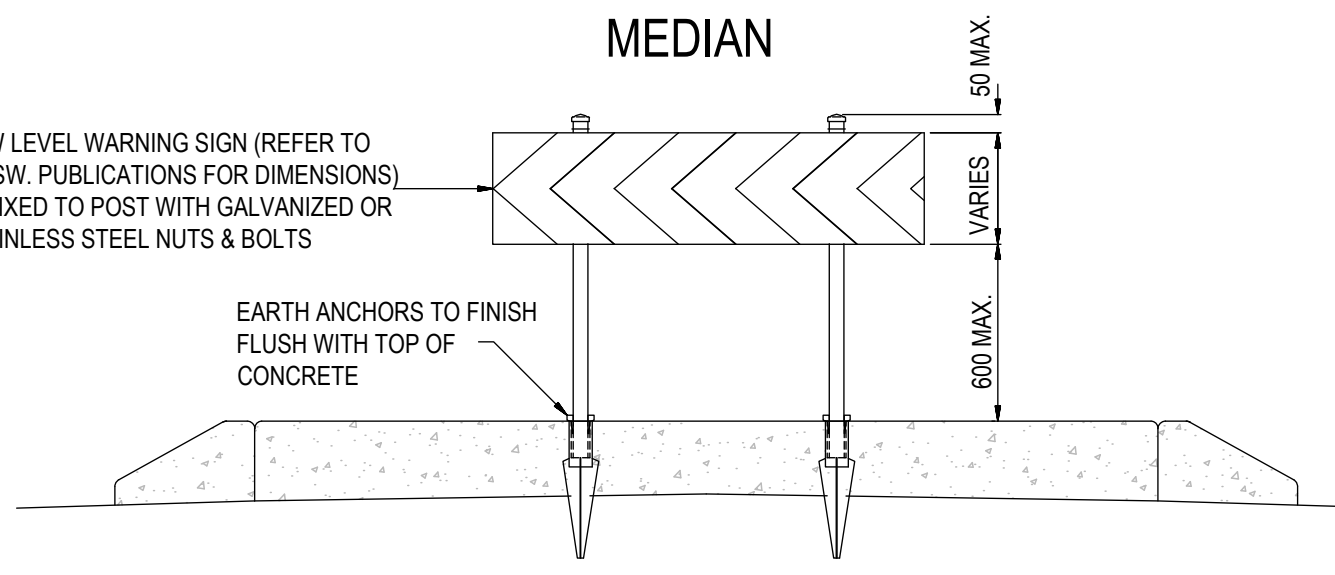
LOCATION OF SIGNS

REGULATORY SIGN (REFER TO TfNSW. PUBLICATIONS FOR DIMENSIONS) AFFIXED TO POST WITH GALVANIZED OR STAINLESS STEEL NUTS & BOLTS



MEDIAN

LOW LEVEL WARNING SIGN (REFER TO TfNSW. PUBLICATIONS FOR DIMENSIONS) AFFIXED TO POST WITH GALVANIZED OR STAINLESS STEEL NUTS & BOLTS



ROUNDBOUT

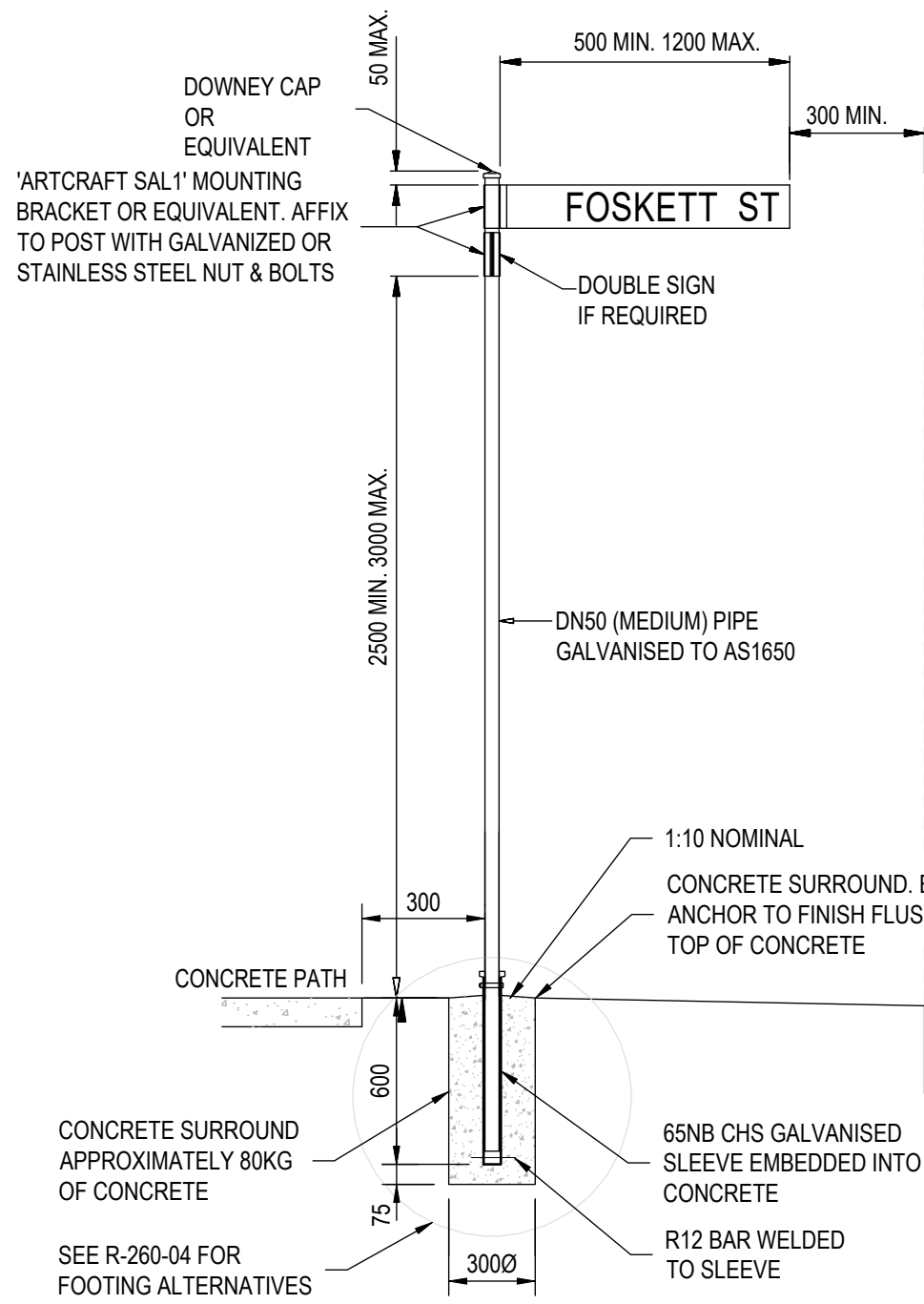
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

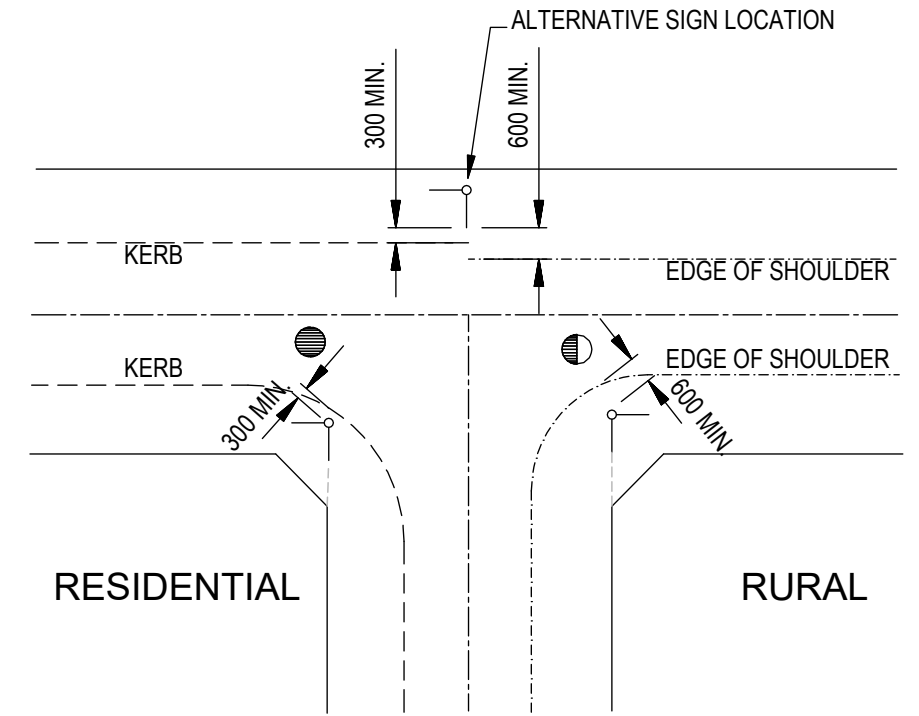
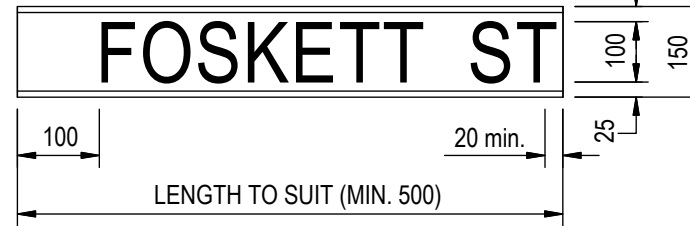
STANDARD DRAWINGS

REGULATORY SIGN ERECTION DETAILS

Council Plan No.	
R-260-02	
Orig. Size	Revision
A3	1



TYPICAL STREET SIGNS ELEVATION
(FOR ALTERNATIVE FOOTING DETAILS REFER TO R-260-04)



SIGN LOCATIONS

LEGEND

- SIGN POST IS TO BE LOCATED 750mm BEHIND NOMINAL KERB LINE
- ◐ SIGN POST IS TO BE LOCATED 2000mm FROM EDGE OF SEAL, OR AS DIRECTED BY COUNCIL.
- * WHEN SIGN OVERHANGS A FOOTPATH, DIMENSION TO BE 2500mm.
- PARKING AND GUIDE SIGNS TO BE 2200 ABOVE ROAD SURFACE.
- SOME SIGNS (KEEP LEFT, NO U-TURN, D4 HAZARD SERIES) TO BE MOUNTED AT 525. HEIGHT CAN BE ADJUSTED IF THERE IS A VISIBILITY PROBLEM
- ⊗ AT LEAST 600mm CLEARANCE TO BE PROVIDED TO OUTER EDGE OF SHOULDER, LINE OF GUIDE POSTS OR GUARDRAIL

TABLE OF ABBREVIATIONS

AVENUE	AV
BOULEVARDE	BVD
CIRCUIT	CIR
CLOSE	CL
COURT	CT
CRESCENT	CR
DRIVE	DR
ESPLANADE	ESP
LANE	LN
PARADE	PDE
PLACE	PL
ROAD	RD
STREET	ST
TERRACE	TCE

OTHER ABBREVIATIONS TO BE APPROVED BY COUNCIL

NOTES

1. ALL SIGNS SHALL COMPLY WITH A.S.1742.5.
2. NAME PLATES TO BE 150mm WIDE, 6 mm THICK P.V.C FLEXIBOARD. (WIDTH SHALL BE INCREASED TO 200mm WHERE STREET NUMBERS ARE REQUIRED).
3. LETTERS & NUMBERS TO BE CLASS 1 BLACK ON CLASS 1 WHITE REFLECTORISED BACKGROUND BOTH SIDES TO A.S.1743.2.
4. LETTERS & NUMBERS TO BE SERIES 'D' TO TO A.S.1744.
5. ROAD NAME LETTERS TO BE 100mm HIGH.
6. STREET NUMBERS TO BE 50mm HIGH, & SIGN DEPTH INCREASED TO 200mm WHERE APPLICABLE.
7. SIGNS SHALL BE PLACED ON THE SIDE OF THE ROAD WHICH PROVIDES THE BEST VISIBILITY.
8. STREET NAMES SHALL BE SUBMITTED TO C.H.CC. FOR APPROVAL.
9. CONCRETE SURROUND TO BE N20 IN ACCORDANCE WITH AS1379 & AS3600.

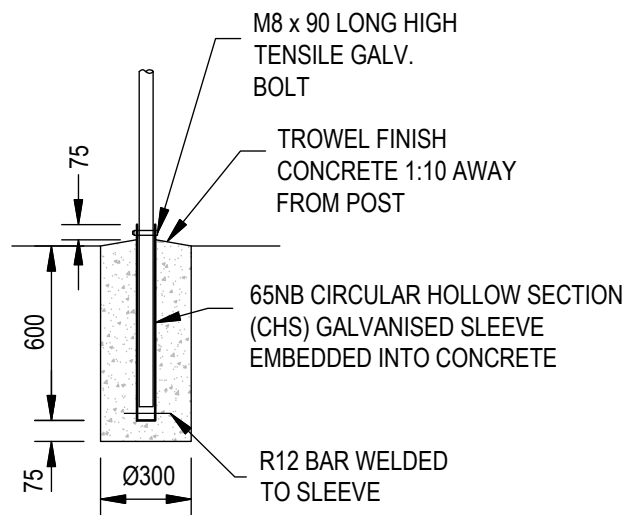
Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Aprd.	Date



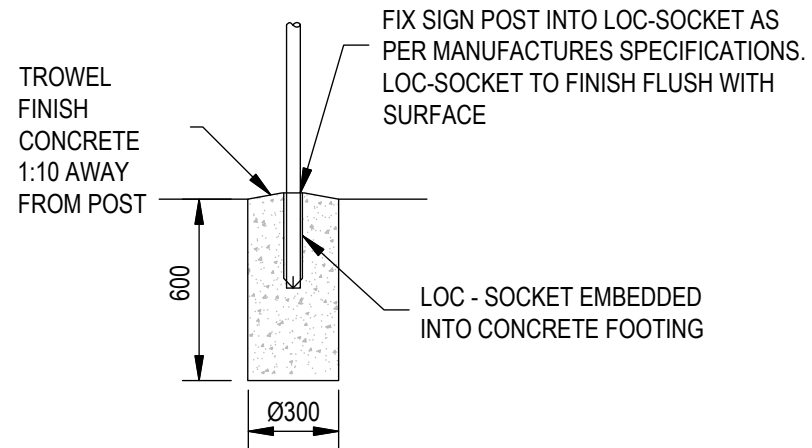
Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS
STANDARD STREET NAME SIGN

Council Plan No.
R-260-03
Orig. Size
A3
Revision
1



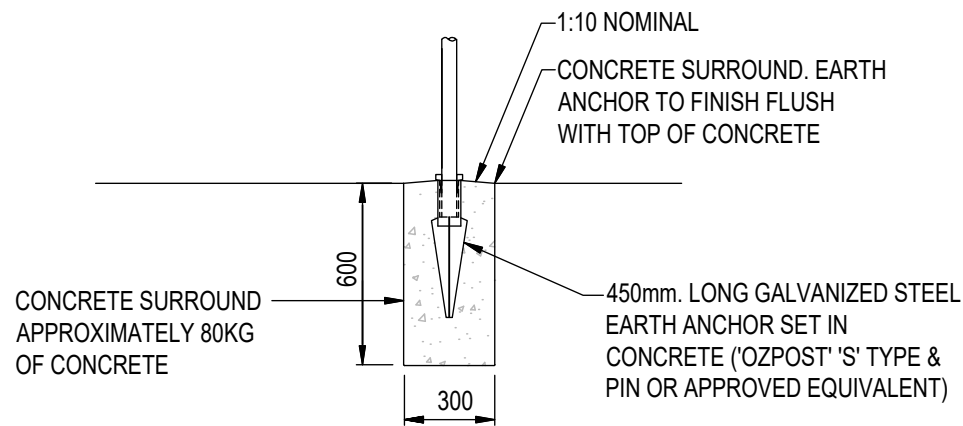
STANADRD TYPICAL SLEEVE



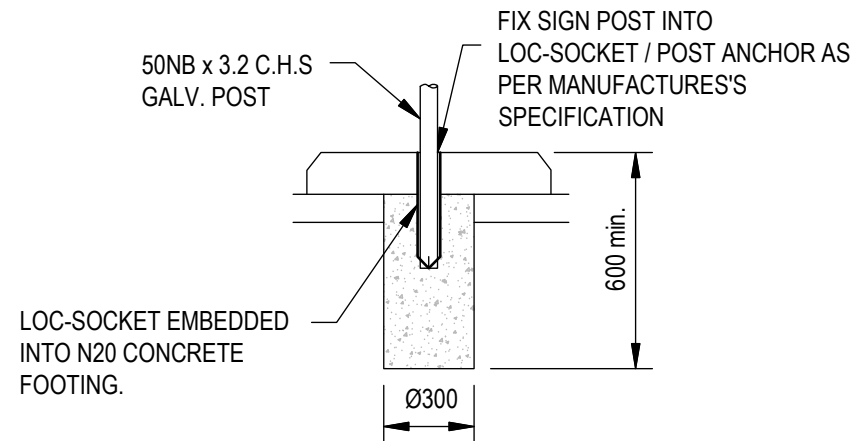
LOC-SOCKET (OR SIMIALAR)

NOTES

1. REFER TO STD DRG R-260-02 AND R-260-03 FOR WARNING SIGN AND STREET SIGN LOCATIONS.
2. ALL SIGNS SHALL COMPLY WITH A.S.1742.5.
3. SIGNS TO BE POSITIONED ON THE SIDE OF THE STREET / ROAD THAT PROVIDES BEST VISIBILITY.
4. UNDERGROUND SERVICES ARE TO BE LOCATED PRIOR TO INSTALLATION.
5. CONCRETE SURROUND TO BE N20 IN ACCORDANCE WITH AS1379 & AS3600.
6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE



STEEL EARTH ANCHOR



MEDIANS

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour. NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS
REGULATORY & STREET SIGN
ALTERNATIVE FOOTING DETAILS

Council Plan No.	
R-260-04	
Orig. Size	Revision
A3	1

LINE TYPE	USE	DIMENSIONS (m) (FOR DIMENSIONS SHOWN BY * SEE MARKER SPACING COLUMN)	COLOUR	RAISED MARKER TYPE	MARKER SPACING (m) *	
					NORMAL SPACING (SEE NOTE 1)	ALTERNATIVE SPACING (SEE NOTE 2)
SEPARTION LINES						
S1	DIVIDING (SEPARATION) LINE ON 2 LANE ROAD		WHITE	YY	12	12
S6	DIVIDING (SEPARATION) LINE ON MULTI LANE ROAD		WHITE	YY	12	12
BARRIER LINES						
BS	REPLACES SEPARATION LINE IF RESTRICTED SIGHT DISTANCE IN ONE DIRECTION OR CLIMBING LANE		WHITE	YY	24	12
BB	REPLACES SEPARATION LINE IF RESTRICTED SIGHT DISTANCE IN BOTH DIRECTIONS / OR APPROACH TO MEDIAN ISLAND / OR PEDESTRIAN CROSSING		WHITE	YY	24	12
LANE LINES						
L1	LANE LINE ON MULTI LANE ROADS INCLUDING MOTORWAYS AND DUAL-CARRIAGEWAYS		WHITE	W	24	12
L2	LANE LINE (PROFILE) ON MOTORWAYS, DUAL CARRIAGEWAYS OR ON SPECIAL LOCATIONS SUCH AS BRIDGES (APPROVAL NEEDED OF GM, TRAFFIC MANAGEMENT)		WHITE	W	24	12
L3	LANE LINE ON MULTI LANE ROAD		WHITE	W	24	12
L4	EXIT LANE LINE ON MULTILANE ROUNDABOUTS		WHITE	W	12	12
L5	LANE LINE (APPROVAL NEEDED OF GM TRAFFIC MANAGEMENT)		WHITE	W	12	12
L6	DEFINES THE EDGE OF A BUS LANE AND BUS ONLY LANE ADJACENT TO GENERAL TRAFFIC LANE		WHITE	NO MARKER REQUIRED		
L7	DEFINES THE EDGE OF A BICYCLE LANE ADJACENT TO GENERAL TRAFFIC LANE		WHITE	NO MARKER REQUIRED		
CONTINUITY LINES						
C1	DEFINES EDGE OF THROUGH CARRIAGEWAY LANE ADJACENT TO TURNING LANE, FREEWAY RAMP, BUS BAY AND START & FINISH OF AUXILLARY LANE		WHITE	W	12	12

LINE TYPE	USE	DIMENSIONS (m) (FOR DIMENSIONS SHOWN BY * SEE MARKER SPACING COLUMN)	COLOUR	RAISED MARKER TYPE	MARKER SPACING (m) *	
					NORMAL SPACING (SEE NOTE 1)	ALTERNATIVE SPACING (SEE NOTE 2)
TURN LINES						
T1	DEFINES TURNING PATHS AT COMPLEX INTERSECTIONS		WHITE	-	-	-
EDGE LINES						
E1	LEFT HAND EDGE LINE ON GENERAL PURPOSE ROAD		RED	R	24	12
E2	LEFT HAND EDGE LINE ON MOTORWAY		RED	R	24	12
E3	RIGHT HAND EDGE LINE ON DIVIDED CARRIAGWAY		YELLOW	Y	24	12
E4	OUTLINE OF TRAFFIC ISLAND OR FREEWAY RAMP GORE		YELLOW RED	Y R	12	12
E5	OUTLINE OF PAINTED MEDIAN		YELLOW YELLOW	YY YY	12	12
E6	LINE APPLIED TO INCLINE FACE OF MEDIAN KERB		NOT REQUIRED	-	-	-
E7	BICYCLE EDGE LINE FOR OFF ROAD BIKE PATHS AND SHARED PATHS		NOT REQUIRED	-	-	-

NW : DENOTES NON RETRO REFLECTIVE WHITE
W : DENOTES MONO-DIRECTIONAL RETRO-REFLECTIVE WHITE
Y : DENOTES MONO-DIRECTIONAL RETRO-REFLECTIVE YELLOW
YY : DENOTES BI-DIRECTIONAL RETRO-REFLECTIVE YELLOW
R : DENOTES MONO-DIRECTIONAL RETRO-REFLECTIVE RED

WHEN PAVEMENT MARKERS ARE USED TO SUPPLEMENT LINES, TWO DIFFERENT SPACING MAY BE USED DEPENDANT ON STREET LIGHTING AND TRAVEL SPEED:-

- NORMAL SPACING APPLIES WHEN THERE IS NO STREET LIGHTING AND TRAVEL SPEED IS GREATER THAN OR EQUAL TO 75km/hr.
- ALTERNATIVE SPACING MAY BE REQUIRED ON SHARP CRESTS OR CURVES TO ENSURE THAT AT LEAST TWO MARKERS ARE IN THE DRIVERS FIELD OF VIEW AT ALL TIMES
- RRPMs SHOULD BE USED TO SUPPLEMENT THE DIVIDING LINE IF THE ANNUAL AVERAGE DAILY TRAFFIC (AADT) IS IN ACCESS OF THE FOLLOWING:
(a) 3,000 VEHICLES ON RURAL ROADS
(b) 6,000 VEHICLES ON URBAN ROADS
RRPMs SHOULD BE USED TO SUPPLEMENT THE EDGE LINE IF THE ANNUAL AVERAGE DAILY TRAFFIC (AADT) IS IN ACCESS OF THE FOLLOWING:
(a) 5,000 VEHICLES ON RURAL ROADS
(b) 10,000 VEHICLES ON URBAN ROADS

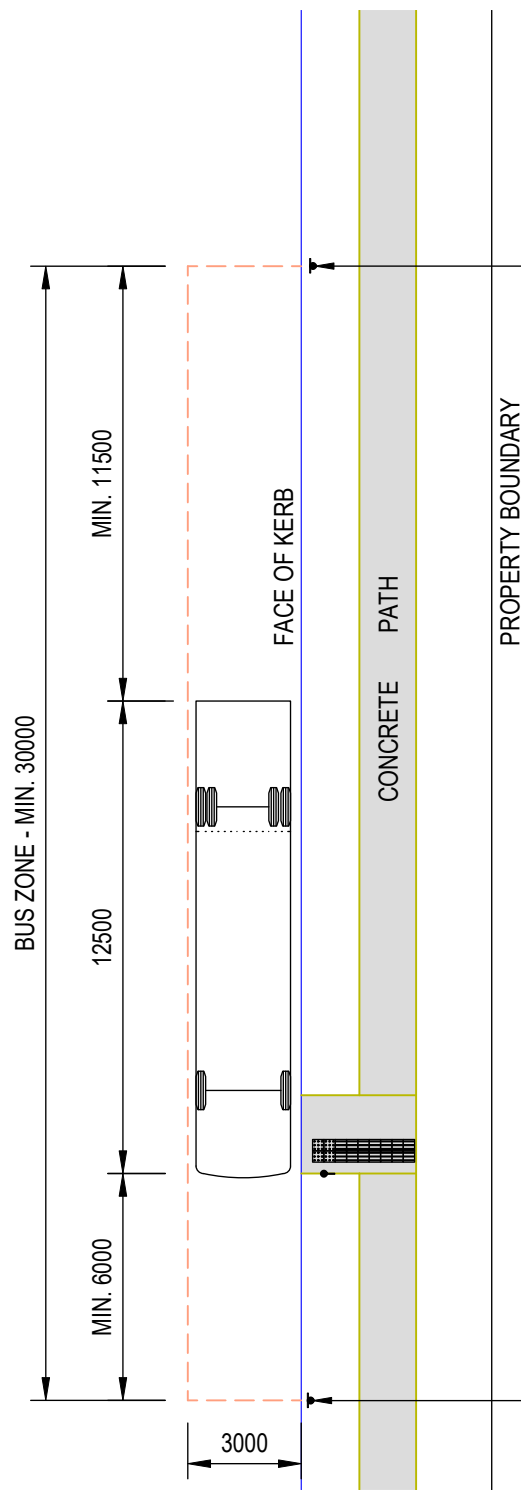
THIS PLAN HAS BEEN DERIVED FROM RMS SECTION 4 - LONGITUDINAL MARKINGS (Version 1.2 Feb 15) & SECTION 15 - RAISED PAVEMENT MARKERS REFER TO CURRENT EQUIVALENT EDITION BEFORE USING.

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

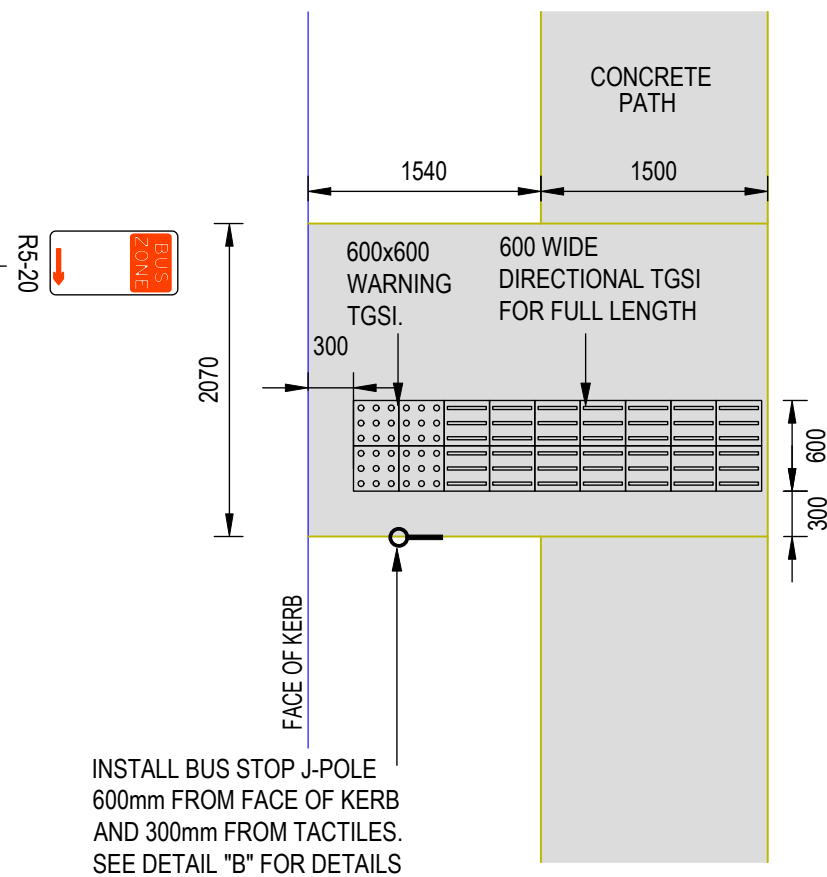


Locked Bag 155
Coffs Harbour, NSW, 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS		Council Plan No.
PAVEMENT LINEMARKING & DIMENSIONS		R-260-05
Orig. Size	Revision	
A3	1	



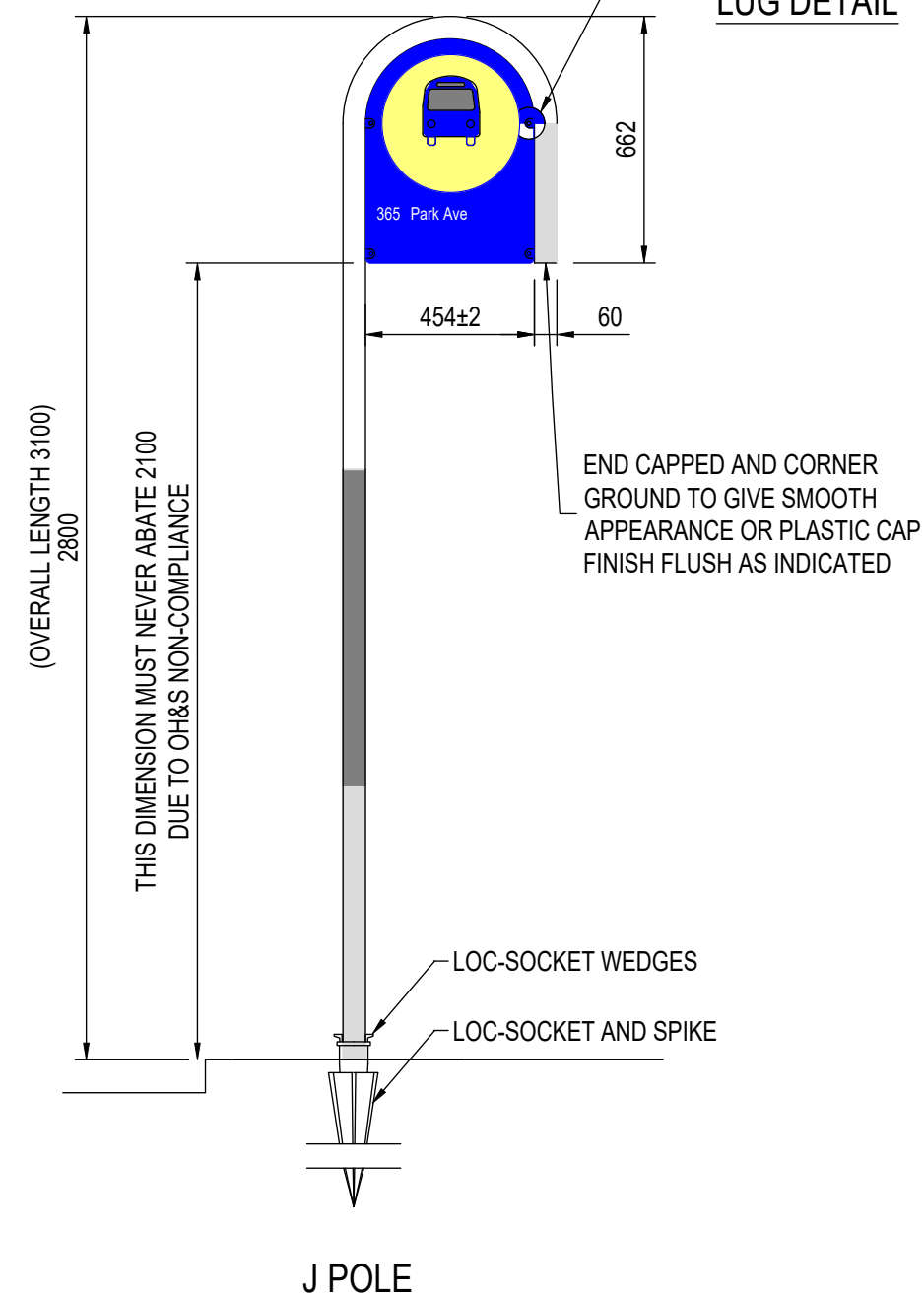
LAYOUT PLAN
SCALE 1 : 200



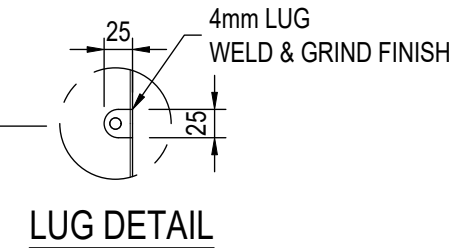
INSTALL BUS STOP J-POLE
600mm FROM FACE OF KERB
AND 300mm FROM TACTILES.
SEE DETAIL "B" FOR DETAILS

DETAIL A
SCALE 1:50

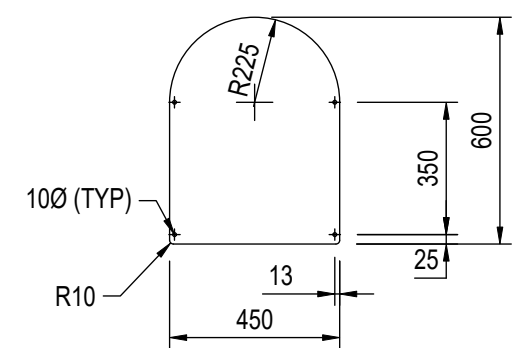
DIRECTIONAL TGSi
SEE DETAIL **A**



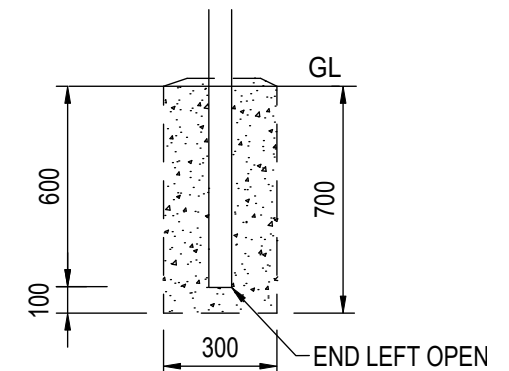
DETAIL B
SCALE 1:50



LUG DETAIL



HEAD PLATE DETAIL



**ALTERNATIVE FOOTING
CONCRETE FOOTING DETAIL**
CONCRETE 25 Mpa

Drawn	B.P.S					
Checked	C.B.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	D.S.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date

Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWINGS

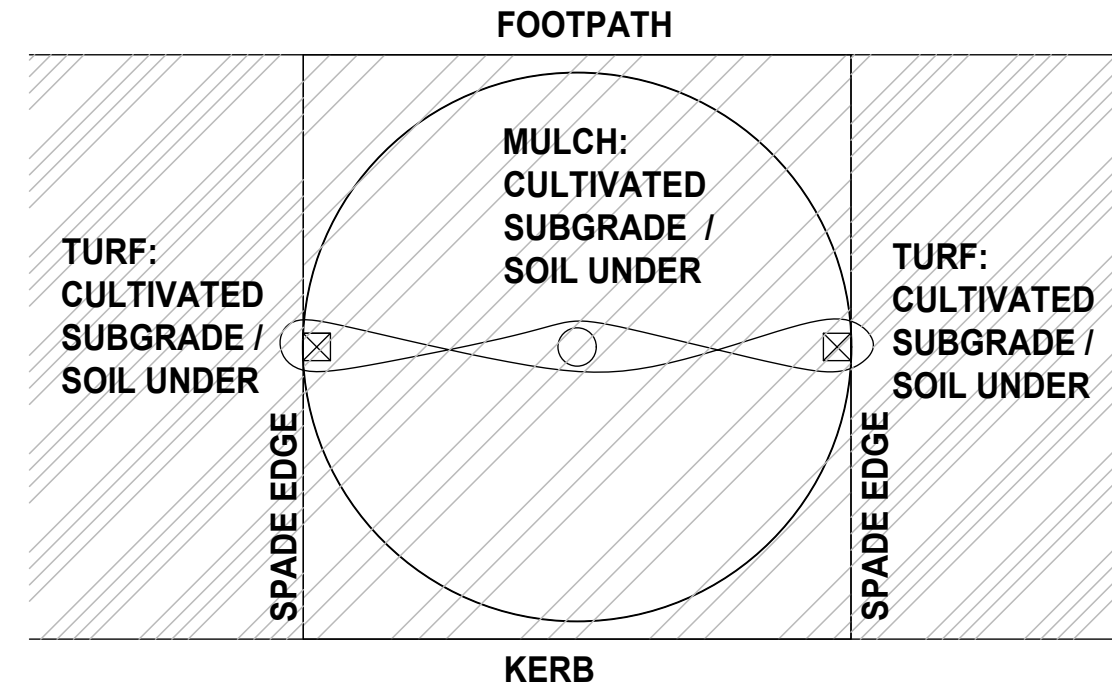
TYPICAL BUS ZONE

J POLE SIGNAGE & DIRECTIONAL T.G.S.I.

Council Plan No.	
R-260-06	
Orig. Size	Revision
A3	1

STREET TREE LOCATION FROM CENTRE OF TREE:

- STREET TREE LOCATION SHALL BE IN ACCORDANCE WITH THE ALLOCATION SHOWN ON STD DRG R-210-04 & 05
- MINIMUM 1000mm FROM CENTRELINE OF STORMWATER AND WATER MAIN
- MINIMUM 500mm FROM RESIDENTIAL ROOF DRAINAGE
- ROOTBARRIER REQUIRED WHEN ADJACENT SERVICES ARE WITHIN 1500 CL-CL OFFSET FROM TREE. FOR NEW DEVELOPMENT REFER TO APPROVAL CONDITIONS.
- STRUCTURAL SOIL /SYSTEMS MAY BE REQUIRED UNDER PATHS TO PROVIDE SUFFICIENT ROOT ZONE
- WHERE SPACE IS LIMITED, DISTANCES AND SPECIES MAY BE VARIED TO ACCOMMODATE CONDITIONS. CITY APPROVAL IS REQUIRED. WHERE SERVICES CONFLICT WITH PLANTING, ALTERNATIVE LOCATIONS MAY BE CONSIDERED.
- FOR TABLE OF SPECIES NOT RECOMMENDED TO BE PLANTED NEAR SEWER MAINS, REFER TO APPENDIX A OF THE CITY'S CONSTRUCTION IN THE VICINITY OF AND PROTECTION OF COUNCIL UNDERGROUND ASSETS PROCEDURE



PLANTING:

TOP OF ROOT BALL FLUSH WITH FINAL SOIL LEVEL. FORM SHALLOW DEPRESSION. ENSURE BASE OF TRUNK IS CLEAR OF MULCH. TREE HOLE DIAMETER MINIMUM 3x ROOTBALL. DIAMETER IN POOR SOILS/WIND PRONE AREAS MAY BE LARGER.

TOPSOIL:

PLANTING BED RAISED ABOVE ADJACENT SURFACE LEVELS. EXISTING SOIL AREA CAN BE UTILISED OUTSIDE TREE HOLE PROVIDED NO CONTAMINATION OF THE SOIL. MIX THE EXISTING WITH IMPORTED SOIL AND/OR CULTIVATE. SOIL MIX AS SPECIFIED IN NOTES. COMPACTED SOIL GENTLY BY FOOT.

TREE STOCK:

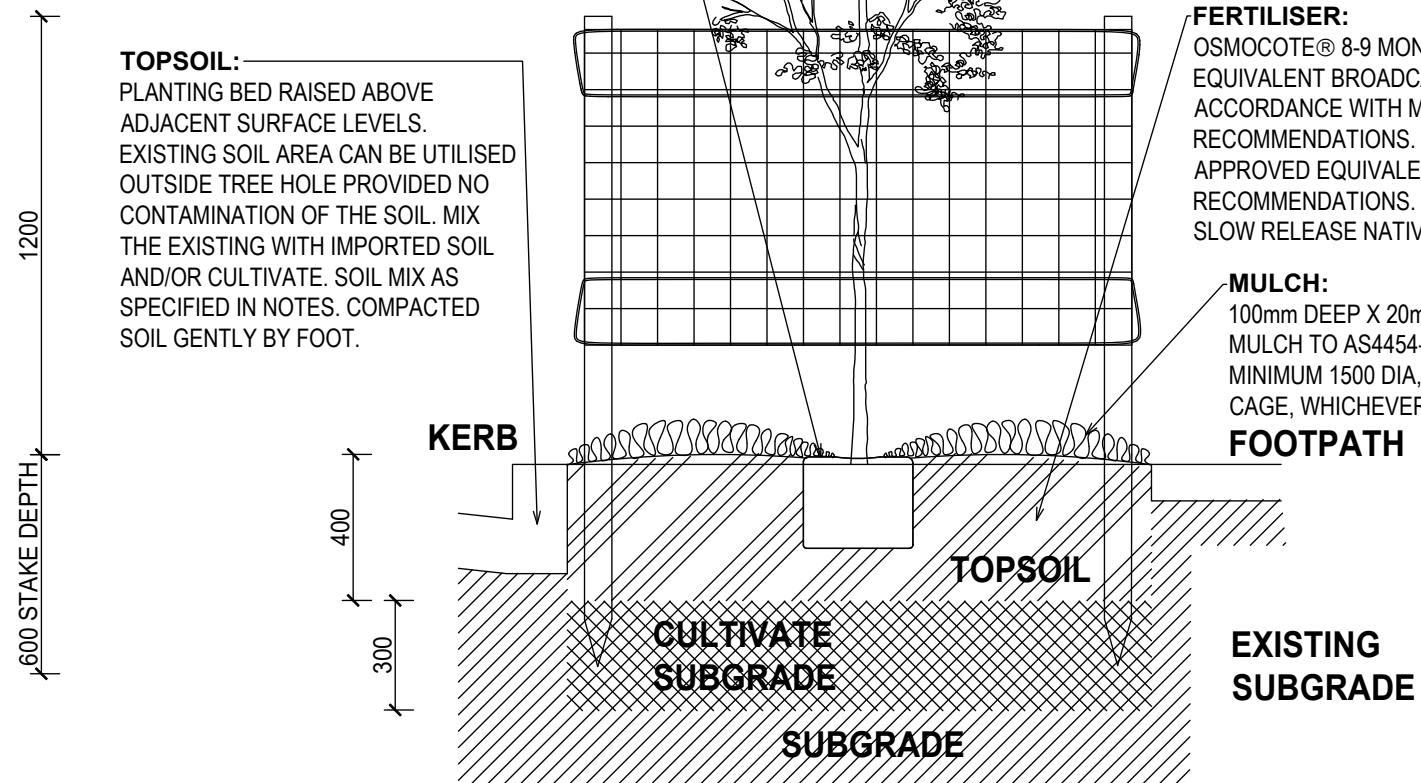
25L STOCK: 300mmDIA x 250mmH. TRUNK CALLIPER 10-15mm. HEIGHT 1-1.5m. SPREAD APPROX 0.6m. SPECIES AS PER STREET TREE MASTER PLAN

FERTILISER:

OSMOCOTE® 8-9 MONTHS OR APPROVED EQUIVALENT BROADCAST UNDER MULCH IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. TERRACOTTEM® OR APPROVED EQUIVALENT TO MANUFACTURERS' RECOMMENDATIONS. NOTE: NATIVES ENSURE SLOW RELEASE NATIVE FERTILISER

MULCH:

100mm DEEP X 20mm HARDWOOD MULCH TO AS4454-2003. MINIMUM 1500 DIA, OR EDGE OF TREE CAGE, WHICHEVER IS MORE.



2: PATH / KERB SECTION
GENERAL STREET TREE PLANTING DETAIL

PLANTING NOTES

ALL MATERIALS TO BE INSPECTED AND APPROVED BY SUPERINTENDENT PRIOR TO INSTALLATION. MAINTENANCE PERIOD: 12 WEEKS FROM PRACTICAL COMPLETION.

1. EXISTING TURF:

TURF TO BE REMOVED, TOPSOIL TO BE STOCKPILED FOR REUSE, AS PER STRIPPING AND STOCKPILING NOTES.ALL

2. STREET TREE SOIL ZONE

MEDIUM TREES REQUIRE SOIL ZONES AND TREE SPACINGS THAT ENSURE ENSURE MINIMUM 18m³ SOIL ZONE PER TREE IS AVAILABLE. LARGE TREES REQUIRE MINIMUM 32m³. SOIL ZONES CAN INCLUDE EXISTING SOILS, PROVIDED THEY ARE NOT CONTAMINATED, COMPACTED, OR ENCROACHED OVER BY HARD SURFACES. VERGE WITH PATH OR SERVICES CAN REDUCE AVAILABLE SOIL VOLUME BY HALF. IN THESE SITUATIONS STRUCTURAL SOILS AND APPROPRIATE SPACINGS SHALL BE UTILISED TO PROVIDE IMPROVED SOIL ZONES. THE CONTRACTOR SHALL PROVIDE DETAILS DEMONSTRATING ACHIEVEMENT OF MINIMUM ROOT ZONE.

3. LEVELS, DRAINAGE AND FALLS

ALL LEVELS TO BE VERIFIED ON SITE. REFER SURVEY, ARCHITECTURAL DRAWINGS, AND ENGINEERING DOCUMENTATION. INCLUDING LOCATION OF EXISTING SERVICES AND SERVICE EASEMENTS, HOSE COCKS, FIELD GULLIES, AND STORMWATER. NOTE: ENSURE FIELD GULLIES, STRIP DRAINS AND OVERLAND FLOW GRAVEL PATHS ARE KEPT CLEAR OF DEBRIS AND SILT, TO ENSURE UNIMPEDED FLOW OF SURFACE RUN-OFF. ALLOW MINIMUM 2% FALLS ALL TURF AREAS: AWAY FROM CAR PARK AND WALKWAY.

4. SERVICES

ENSURE CONDUIT UNDER PATHS AND HARD PAVING IS PROVIDED FOR ALL SERVICES AS NECESSARY, INCLUDING POWER AND WATER FOR EXTERNAL TAPS, EXTERNAL LIGHTING, FUTURE IRRIGATION.

Drawn	B.P.S					
Checked	A.V.					
Approved	D.S.					
Date	DEC 2024	1	ISSUED FOR USE	B.P.S	C.B.	12/2024
Issue	FIRST ISSUE	Rev.	Amendments	Drawn	Apprd.	Date



Locked Bag 155
Coffs Harbour, NSW. 2450
Ph. (02)66484000
www.coffsharbour.nsw.gov.au
coffs.council@chcc.nsw.gov.au

STANDARD DRAWING

LANDSCAPING
GENERAL TREE PLANTING DETAIL & NOTES

Council Plan No.

L-600-02

Orig. Size Revision

A3 1