

NOTES

REFER TO NOTE 16.

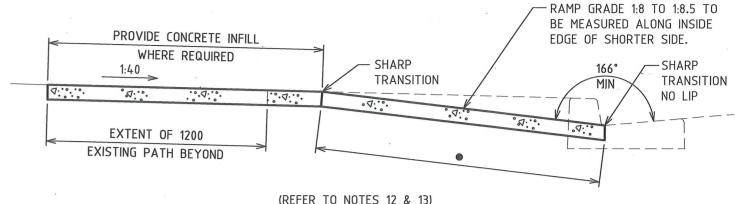
- 1. KERB RAMPS TO BE CONSTRUCTED IN ACCORDANCE WITH THIS DRAWING AND RELEVANT SECTIONS OF AS1428 PARTS 1 & 4.1 2009.
- 2. EACH RAMP TO POINT IN THE DIRECTION OF TRAVEL AND TO ALIGN WITH RAMP ON OPPOSITE SIDE OF CARRIAGEWAY.
- 3. THE POSITION OF A RAMP MAY BE CHANGED FROM THE PREFERRED LOCATION WHERE THERE ARE MAJOR OBSTRUCTIONS (EG. POLES, UTILITY PITS, DRAINAGE PITS ETC). CHANGES TO BE APPROVED BY COUNCIL'S INFRASTRUCTURE PLANNING BUSINESS UNIT.
- 4. WIDTH OF RAMP WING MAY BE DECREASED IF NECESSARY TO CLEAR POLES, UTILITY PITS, DRAINAGE PITS ETC. MINIMUM WIDTH 600mm. FOR VERY SHORT RAMPS ADOPT A 45° WING ANGLE.

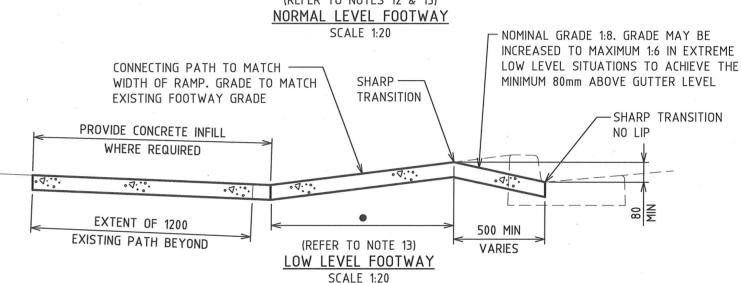
 5. ALL KERB RAMPS TO BE 1200 WIDE
- 6. A VERTICAL KERB AND BARRIER RAIL MAY BE USED WHERE THERE IS NO SCOPE TO INSTALL A WING DUE TO THE POSITION OF POLES, UTILITY PITS, DRAINAGE PITS ETC. BARRIER RAIL TO COMPLY WITH AUSTRALIAN STANDARD 2312 2002 "GUIDE TO THE PROTECTION OF STRUCTURAL STEEL AGAINST ATMOSPHERIC CORROSION BY THE USE OF PROTECTIVE COATINGS". IF REQUIRED AT A SIGNALISED INTERSECTION APPROVAL OF THE ROADS AND TRAFFIC AUTHORITY MUST BE OBTAINED BARRIER RAIL MUST NOT OBSTRUCT THE CROSSING ACTIVATOR BUTTON.
- 7. LEVELS OF FIRE HYDRANTS, GAS SYPHONS ETC, THAT FALL WITHIN A RAMP OR RAMP WING, SHOULD BE ADJUSTED TO MATCH THE FINISHED LEVELS OF THE RAMP.
- 8. A RAMP MUST NOT BE LOCATED OUTSIDE THE LINE OF A MARKED FOOT CROSSING OR ZEBRA CROSSING (WITH THE EXCEPTION OF THE RAMP WING).
- 9. STREET NAME SIGNS, PARKING SIGNS ETC. TO BE RELOCATED CLEAR OF RAMP.
- 10. RAMPS TO BE 80mm THICK AND TO BE CONSTRUCTED USING MINIMUM 25 MPA GRADE CONCRETE. RAMPS MUST NOT BE CONSTRUCTED USING ASPHALTIC CONCRETE OR BRICK PAVERS.

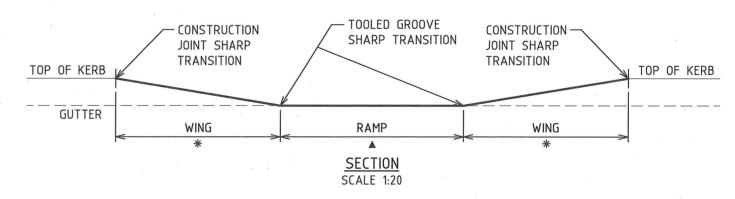
 11. A RAMP SHALL HAVE A BROOM, WOOD FLOAT OR COVING TROWEL FINISH CARRIED TO THE EDGE OF ALL SLOPED SURFACES PLUS A TOOLED GROOVE ALONG THE TWO INSIDE EDGES.

 12. RAMP GRADE TO BE IN THE RANGE 1 IN 8 TO 1 IN 8.5 MEASURED ALONG SHORTER INSIDE EDGE OF RAMP (GRADE ON LONGER INSIDE EDGE MAY BE FLATTER). NOMINATED GRADE RANGE IS TO ENABLE PEOPLE WITH A VISION IMPAIRMENT TO PHYSICALLY DETECT THE CHANGE IN GRADE BETWEEN FOOTWAY AND RAMP. FLATTER GRADES TO BE AVOIDED IF POSSIBLE AS THIS WOULD REQUIRE THE PLACEMENT OF TACTILE GROUND SURFACE INDICATORS (TGSI) WITHIN THE RAMP -
- 13. FOOTWAY LEVELS TO BE ADJUSTED WHERE FEASIBLE TO ACHIEVE A RAMP GRADE OF 1 IN 8 TO 1 IN 8.5.
- 14. USE OF TACTILE GROUND SURFACE INDICATORS (TGSI) IN CONJUNCTION WITH KERB RAMPS: AS1428.4.1 2009 SETS OUT REQUIREMENTS FOR THE INSTALLATION OF TGSI.
- A) TGSI TO BE PROVIDED: i) AT MID-BLOCK PEDESTRIAN CROSSINGS, REFUGES AND MEDIAN CUT-THROUGHS ii) WHERE DISTANCE FROM PROPERTY BOUNDARY TO TOP OF RAMP EXCEEDS 3.0 METERS iii) WHERE RAMPS ARE PLACED "AROUND THE CORNER". iv) WHERE RAMP GRADE IS FLATTER THAN 1 IN 8.5. REFER TO AS1428.4.1 FOR DETAILS.
- B) FLEXIBLE TGSI WHICH CAN BE GLUED DIRECTLY ONTO FOOTWAY SURFACE TO BE USED. CERAMIC TGSI WHICH NEED TO BE SET INTO THE PAVEMENT ARE NOT RECOMMENDED. TGSI TO BE INSTALLED TO THE MANUFACTURER'S SPECIFICATIONS.
- C) THE FOLLOWING TGSI COLORS TO BE USED TO ACHIEVE LUMINANCE CONTRAST: "CHARCOAL" ON PLAIN CONCRETE SURFACES AND "IVORY" ON ASPHALTIC CONCRETE OR COLORED PAVER SURFACES.
- D) WHERE THE LAYOUT OF TGSI NEEDS TO BE VARIED FROM THE EXAMPLES SHOWN DUE TO SITE CONSTRAINTS VARIATIONS TO BE APPROVED BY COUNCIL'S INFRASTRUCTURE PLANNING BUSINESS
- 15. LUMINANCE CONTRAST TO AID PEOPLE WITH A VISION IMPAIRMENT TO BE ACHIEVED BY:

 A) APPLYING "CHARCOAL" COLOUR HARDENER TO THE RAMP AND WINGS, BY HAND
 BROADCASTING, AT LOCATIONS WHERE THE EXISTING FOOTWAY IS CONSTRUCTED IN FULL-WIDTH PLAIN CONCRETE.
- B) RAMP AND WINGS BEING FINISHED IN PLAIN CONCRETE WHERE THE EXISTING FOOTWAY IS PAVED FULL-WIDTH IN ASPHALTIC CONCRETE OR COLORED PAVERS.
- C) AT STRIP-PAVING SITES RAMP AND WINGS TO BE FINISHED IN PLAIN CONCRETE AS THERE IS LUMINANCE CONTRAST BETWEEN THE RAMP/PATH AND THE ADJACENT TURF.
- 16. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.







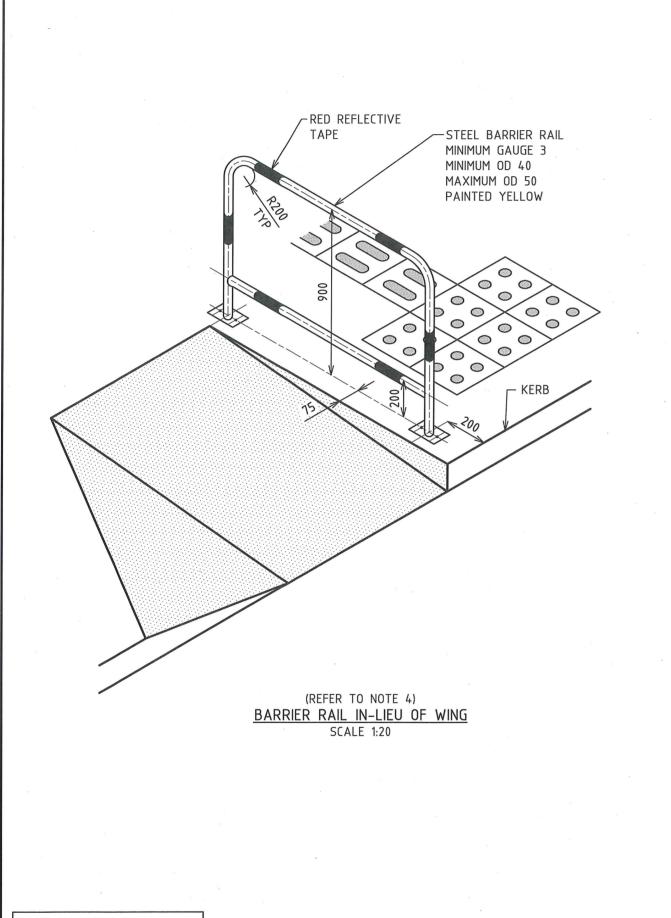
RAMP DIMENSIONS							
DIMENSIONS	INTEGRAL KERB & GUTTER (mm)						
DIIILINOIUNO	150 HIGH	200 HIGH					
▲ WIDTH	1200	1200					
• LENGTH	1500	2000					
* WING	900	1200					

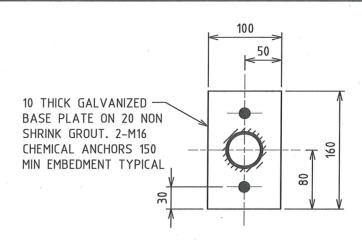
▲ DENOTES REFER TO DIAGRAMS FOR CORRECT WIDTH

FOOTWAY CROSSFALL OF 2.5%.

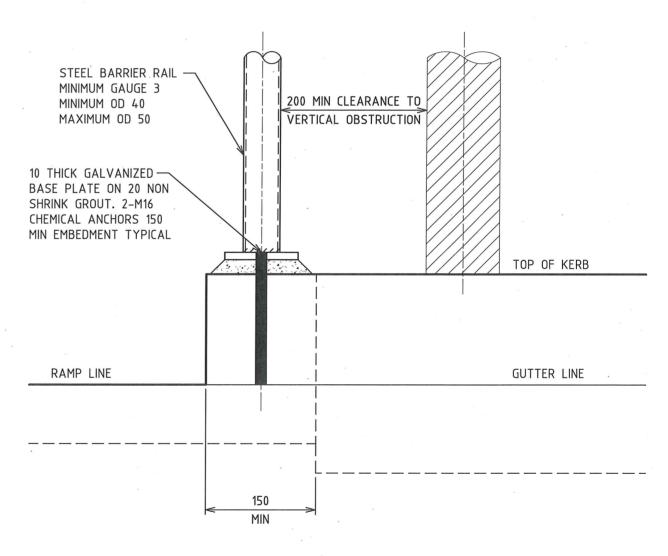
- DENOTES LENGTH OF RAMP TO BE DETERMINED ON SITE.
 LENGTH WILL VARY DEPENDING ON KERB HEIGHT AND
 FOOTWAY GRADIENT. NOMINATED LENGTHS ARE FOR A
- DENOTES WIDTH OF WING FOR NON-STANDARD KERB HEIGHTS TO BE DETERMINED ON SITE. RATIO OF KERB HEIGHT TO SPLAY WIDTH TO BE 1:6. WIDTH MAY BE DECREASED IF NECESSARY (TO 600mm MINIMUM) TO CLEAR PUBLIC UTILITIES, ETC.

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				SCALE		APPROVED:	THE CITY OF NEWCASTLE	NCC PLAN No.	SHEET No.
					The City of MANAGEMENT SERVICES	1 19	FOOTWAY KERB RAMPS	1	3
1	GENERAL REVISION	05.07.16	T.A.	AS SHOWN	Newcastle	SIGNED:INFRASTRUCTURE MANAGEMENT SERVICES MANAGER	FUUTWAT KERD KAMPS	A1201	05
0	CONSTRUCTION	29.04.14	T.A.	1					Ur I
No.	AMENDMENT DETAILS	DATE	INITIALS		REVIEWED: J.C.				4
A3 ORIGINAL THIS SHEET WAS PREPARED IN COLOUR AND WILL BE INCOMPLETE IF COPIED			ETE IF COPIE	COORDINATE SYSTEM: HEIGHT DATUM: AHD	REVIEWED: J.C.	DATE:		AMENDMENT No.	SHEETS





TYPICAL BASEPLATE PLAN DETAIL SCALE 1.5



TYPICAL BASEPLATE ELEVATION DETAIL

SCALE 1:5

REFER TO SHEET 3 FOR NOTES

				SCALE			APPBØVEØ:	THE CITY OF NEWCASTLE	NCC PLAN No.	SHEET No.
	GENERAL REVICION	05.07.16	T.4	AS SHOWN		The Gity of Newcastle	SIGNED:INFRASTRUCTURE MANAGEMENT SERVICES MANAGER DATE:	FOOTWAY KERB RAMPS	A1201	4
0	GENERAL REVISION CONSTRUCTION	29.04.14	T.A.						AIZUI	OF
No.	AMENDMENT DETAILS IGINAL THIS SHEET WAS PREPARED IN COLOUR AND	DATE	INITIALS	COORDINATE SYSTEM: HEIGHT DATUM: AHD		REVIEWED: J.C.			AMENDMENT No.	4 SHEETS