

SPECIFICATION

Modification to Council Infrastructure

Crossover Opening, Kerb & Gutter, Footpath Repair

Last Updated: October 2021

Note: *This specification is provided to assist authorised persons to meet the construction requirements of council in respect to the opening/closing or extension of driveway crossovers and entries on public roads and repairing damage caused to Council footpaths.*

1. The Local Government Act 1999 provides that a road extends from the property boundary and includes the carriageway, footpaths, and verges.
2. Council requires a minimum of **7 days'** notice prior to construction work commencing.
3. Crossovers - Driveways Construction Residential: -
Driveway crossovers are to be paved to match the existing footpath pavers. (Not Concrete.)
4. Where there are existing footpath pavers in a street the proposed replacement paver must match the existing pavers. New pavers for a new crossover must be the same type as the existing footpath pavers used by Council.
5. Where a new crossover is constructed to replace an existing crossover, the existing crossover must also be closed, in accordance with this specification.
6. Inverts and crossovers may not be constructed within 6 metres of an intersection except with express approval of the Council.
7. Other structures on the street (e.g., trees, power pole, signs, and services etc.) may not be moved, altered or interfered with in any way except with the express, written approval of the relevant authority and Council.
8. The Applicant is responsible for locating any underground services prior to commencement of works. Any costs incurred in repairing damage to services are charged to the person responsible for the damage. Please contact the relevant service authority.
9. Maximum length (along kerb) of inverts must not exceed: -
 - 4 metres for a single or one-way entrance or exit
 - 6 metres for a double or two-way combined entrance/exit
 - 8 metres Crossover for Commercial properties only subject to Council approval
10. Minimum distance of Crossover inverts is: -
 - 1.5 metres from trunk of any street tree no greater than 300mm in diameter at the base of the tree. For street trees greater than 300mm in diameter at the base of the tree, please contact Council's Arborist for guidelines and advice.
 - Crossover Inverts should be 1 metre from SA Power Network (ETSA) poles and Storm Water Side Entry Pits or at a distance otherwise recommended by Council.

11. Footpath and crossover Gradients: -

- Footpath levels must be approved by the Council prior to the start of excavation.
- Footpath and Crossover gradients should not exceed 1:40 (2.5%) for footpaths and pedestrian walkways and 1:20 (5%) for crossovers/driveways or match existing footpath and crossover gradients within the area of works. (Refer to attached drawings).
- Finished level on crossover at boundary must be a minimum of 75mm above level on top of adjacent kerb.

12. Invert profile must conform to AS2876. Inverts & kerbing must be poured integrally with water table i.e., the entire kerb and water table must be excavated prior to construction. The practice of breaking away the top kerb section of existing integral kerb and water table is unacceptable.

13. Concrete Kerbing and Commercial Crossovers: -

- Ready mix must comply with AS1379 and have a minimum compressive strength of 25 MPa and a maximum water/cement ratio of 0.5 or slump of 100mm.
- Hand mixed may not be used unless it complies with AS1480
- Surface finish: inverts - smooth steel trowel. Crossover - broom finish or wood float. A smooth steel trowel finish is not acceptable on crossovers.
- Colouring may be added in accordance with accepted concrete practices.
- Reinforcement need not be provided except in accordance with Clause 17 below.
- Minimum thickness must be 100mm except in accordance with Clause 17 below.
- Where a new crossover is to be constructed or new kerb & gutter is to be constructed to close of an existing crossover or repairs to any damage to kerb and gutter or bitumen footpath and roads. All edges of the excavation area must be cut with a straight clean and edge using the appropriate cutting saw.

14. Paving bricks or blocks: -

- Interlocking type bricks or blocks minimum 60mm thick only may be used, BEST LOK OR BORAL KEY PAVE, are the pavers used by the City of Unley. The correct type and colour paver must be used to match the particular street pavers where the reinstatement is required. Except in accordance with Clause 16 below.
- Bricks or blocks must be bedded in sand bedding minimum 20mm thick spread on a base of compacted quarry rubble minimum 75mm thick. Sweeping sand must be used when bedding in pavers, so to seal in between paver to prevent water seepage under pavers.
- In the case where the last row of new pavers laid are unable to tie into the existing pavers a brick cutting saw is required to cut the new and existing bricks, so they fit with a minimal amount of space between them. The practice of filling the gap with sand and mortar is unacceptable.
- Edges must be restrained by a concrete retainer in accordance with established good practice.

15. Hot mix: -

- Minimum thickness 25mm compacted except in accordance with Clause 17 below
- Hot mix must be AC10 laid at a temperature within 40°C of supply temperature and in accordance with established good practice.
- An approved bonding agent must be applied to base material and allowed to cure in accordance with supplier's recommendations, prior to laying.
- Base must be compacted quarry rubble minimum 100mm thick.

16. Compaction: -

- Any trench excavated on council property, footpath or road must be backfilled in accordance with AS1289.
- All excavation for the installation of underground electrical service must be compacted using a foot wacker compacter to meet compaction standards.
- All trenches are to be compacted and reinstated to council specification.

17. Special Conditions on Non-Residential Properties and Roads: -

- Concrete Work: All concrete must be a minimum of 25 m p a. and a minimum of 150mm thick. F72 reinforcing mesh must be provided 50mm above base of slab.
- Paving Blocks or Hot mix: Rubble base must be minimum 150mm thick. Pavers must be minimum 80mm thick. Hot mix must be minimum 40 mm compacted thicknesses.

18. Protection of Works: -

- During the progress of the work, the site must be always protected by suitable safety barriers in accordance with AS1742.3. If the works are left open overnight, at least 1 flashing amber safety light must be provided.
- Every attempt must be made to complete the work as quickly as possible.
- The site and adjoining roadway and footpath must be cleared of any excess material, spillage, form work and tools as they accumulate.
- No material may be stockpiled on the road or footpath.

19. Satisfactory Completion: -

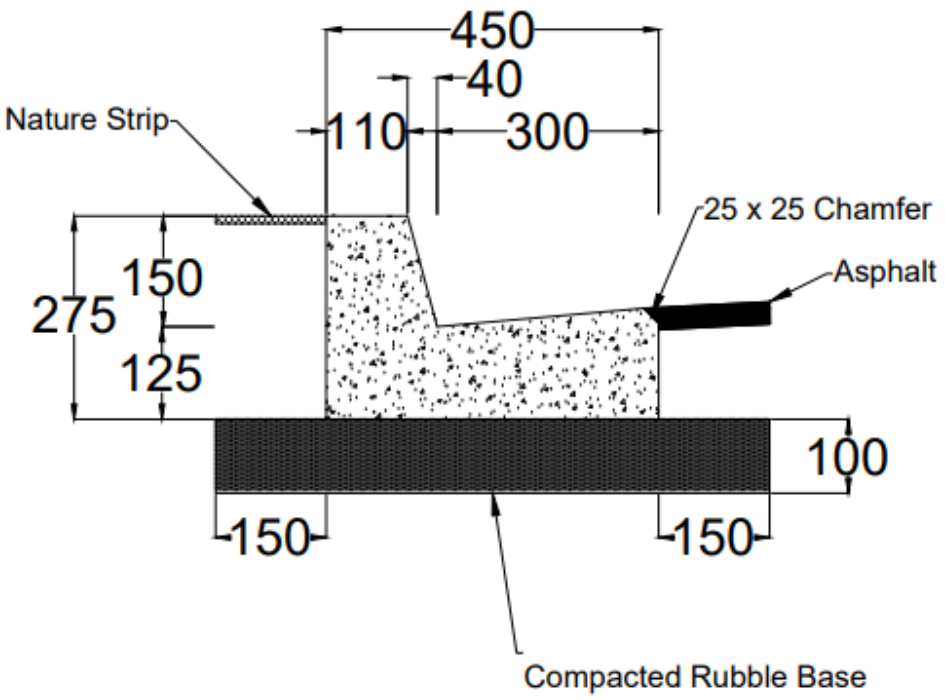
- Any cost incurred by the Council in reinstating the road footpath as a result of work done under this authorisation or work not completed in accordance with this authorisation that must be made good by Council will be charged to the owner, pursuant to Section 213 of the Local Government Act 1999.



B1 Barrier Kerb And Channel



Standard Drawing
Roadworks
Concrete Kerbing



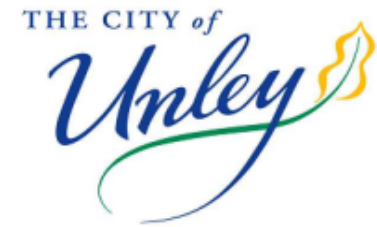
CITY-OF-UNLEY
DRAWN:
Design Engineer Approved: Name:
Manager Approved Name:
DATE: 20/01/2010
SCALE: NOT-TO-SCALE

CAPITAL-MAINTANANCE
DRAWING-1
DIMENSIONS-IN-MILLIMETRES

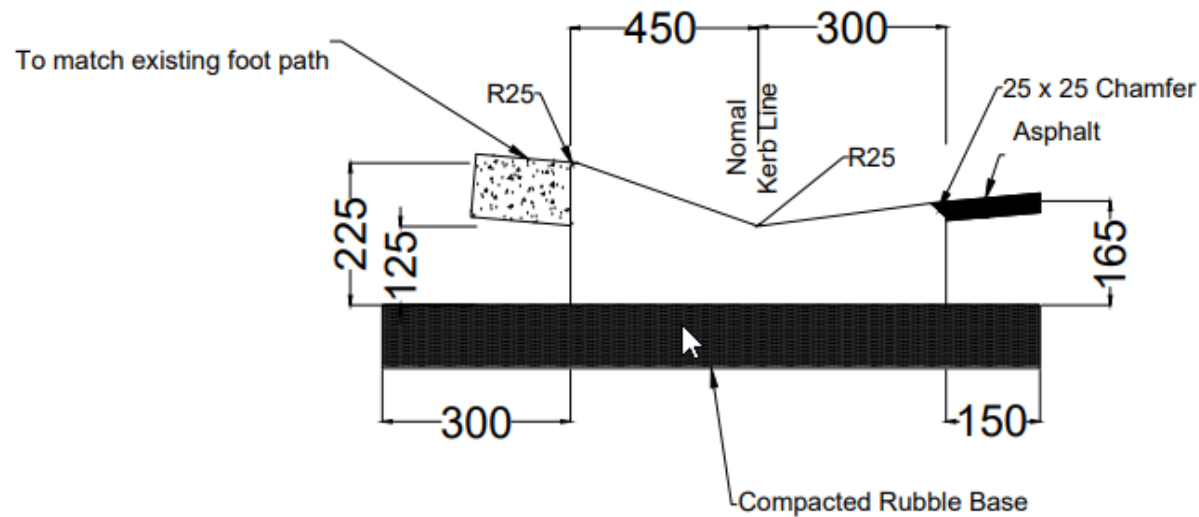
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JOB NUMBER	1				
SHEET NUMBER	1				
			A		20/01/2010
			REVISION	AMENDMENT / REASON FOR ISSUE	APPROVED DATE

POBox 1
Unley
South Australia 5061

VC 1 Vehicle Crossover



Standard Drawing
Roadworks
Concrete Kerbing



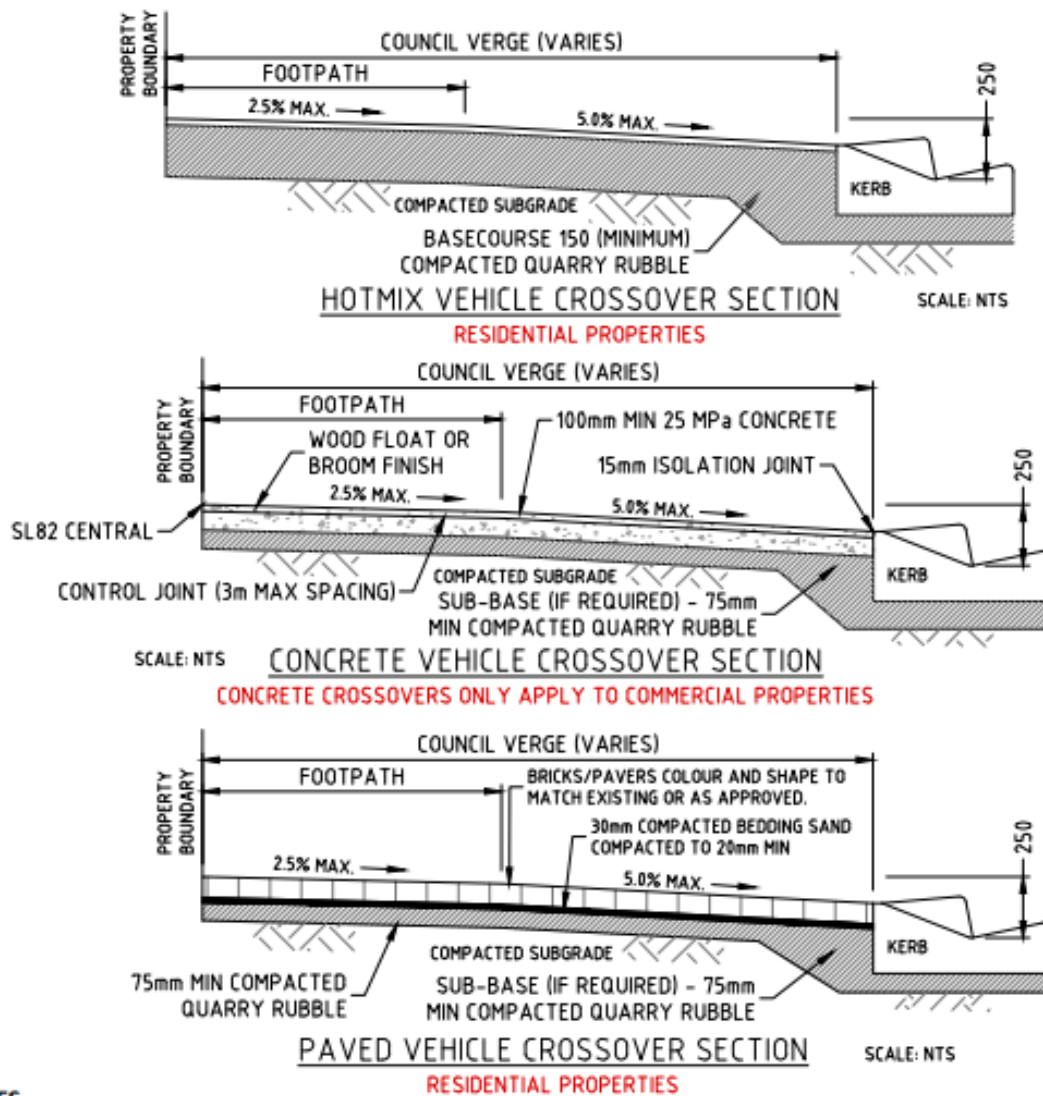
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DRAWN:
Design Engineer Approved: Name:
Manager Approved Name:
DATE: 17/02/2010
SCALE: NOT-TO-SCALE

CAPITAL-MAINTANANCE
DRAWING-1

FILE NAME:	VC1	NOTES				
JOB NUMBER	1					
SHEET NUMBER	1 of 2					
			A		17/02/2010	
			REVISION	AMENDMENT / REASON FOR ISSUE	APPROVED	DATE

POBox 1
Unley
South Australia 5061

Specification Footpath Crossfall Gradients 1

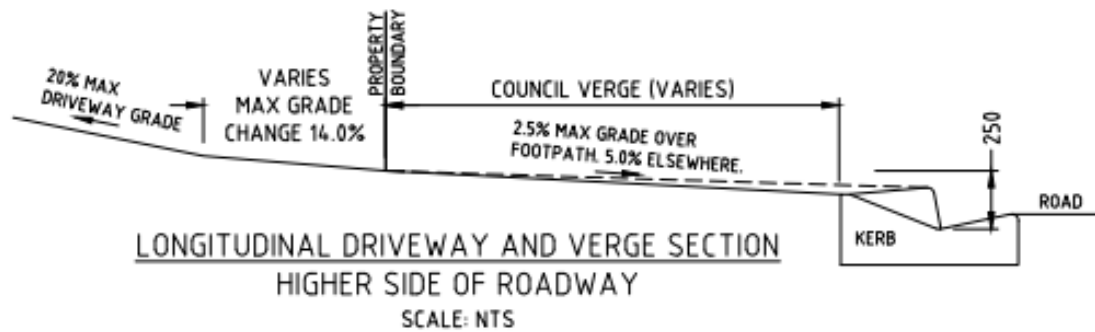
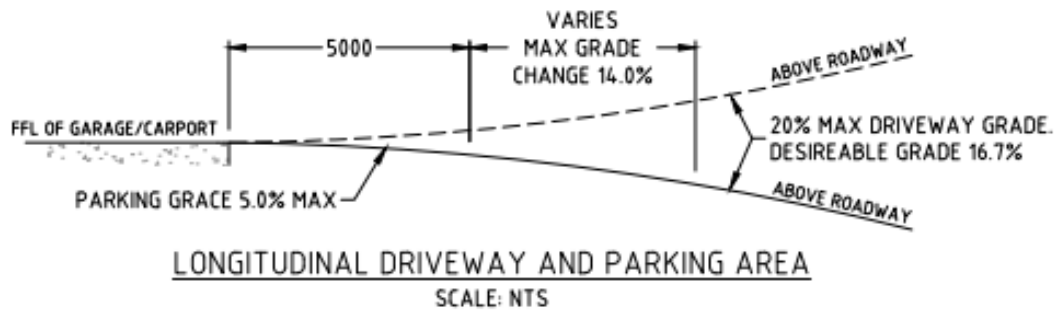
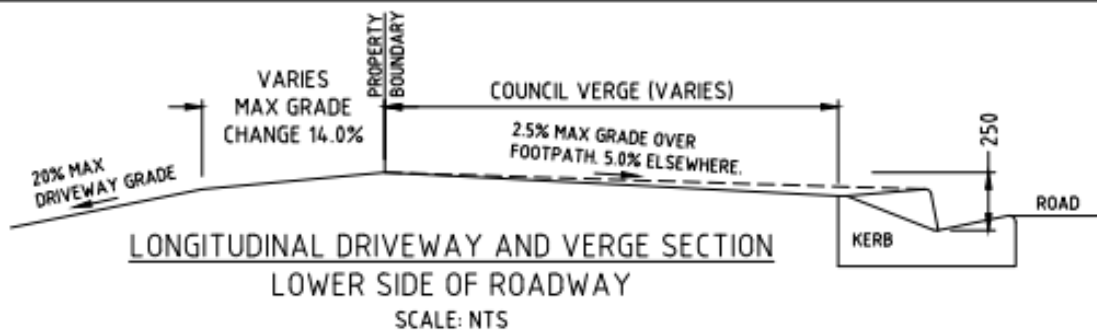


NOTES

- 250mm MINIMUM FREEBOARD FROM KERB INVERT (OR EDGE OF ROAD) TO BOUNDARY TO BE PROVIDED. UNLESS APPROVED OTHERWISE FROM COUNCIL.
- ALL KERBING TO BE IN ACCORDANCE WITH 28/6 - 2000 CONCRETE KERBS AND CHANNELS (GUTTERS).
- EXPANSION JOINT TO BE 12mm WIDE AND FILLED WITH BITUMEN IMPREGNATED CANITE OR SIMILAR APPROVED AT ALL INTERFACES BETWEEN NEW/EXISTING CONCRETE.
- CONCRETE TO BE 25 MPa UNLESS NOTED OTHERWISE.
- DRIVEWAY INVERT LOCATION TO BE APPROVED BY COUNCIL.
- DRIVEWAY INVERTS FOR CORNER ALLOTMENTS SHALL BE LOCATED NO CLOSER THAN 10m FROM THE INTERSECTION OF THE ROADS UNLESS APPROVED BY COUNCIL.
- DRIVEWAY INVERT TO BE LOCATED AT LEAST 10m FROM KERB RAMPS AND SIDE ENTRY PITS.
- EXISTING FOOTPATH TO BE RETAINED UNLESS APPROVED OTHERWISE FROM COUNCIL.
- IT IS THE RESPONSIBILITY OF THE INDIVIDUAL TO ENSURE THAT THEY ARE USING THE CURRENT VERSION OF THIS DRAWING. COUNCIL ACCEPTS NO RESPONSIBILITY FOR ISSUES ARISING FROM THE USE OF SUPERSEDED DRAWINGS.
- APPLICATION TO ENSURE THAT APPROVAL IS SOUGHT FROM COUNCIL TO UNDERTAKE WORKS ON COUNCIL LAND.
- ALL DIMENSIONS IN mm UNLESS SHOWN OTHERWISE.


	REVISIONS		STANDARD DETAILS DRIVEWAY INVERT AND CROSSOVER (RESIDENTIAL)	THE CITY OF UNLEY		
	1	A. MOLLOY COU		NOV 2021	SHEET	1 of 1
	0			2013	REVISION	1
	No.	BY		DATE	DRAWING No.	
				SCALE AS SHOWN		

Specification Footpath Crossfall Gradients 2



NOTES

1. MAXIMUM DRIVEWAY GRADE WITHIN THE PROPERTY IS 20% (1:5). DESIRABLE MAXIMUM IS 16.7% (1:6).
2. MAXIMUM VERGE AREA GRADE IS 5.0% (1:20) FROM KERB TO PROPERTY BOUNDARY.
3. WHERE A DRIVEWAY CROSS AN EXISTING FOOTPATH/BIKEPATH, THE MAXIMUM CROSSFALL SHALL BE 2.5%.
4. THE ABOVE DRIVEWAY GRADE DETAILS ARE BASED ON AS 2890.1-2004.
5. PROVIDE MINIMUM 250mm FREEBOARD FROM KERB INVERT TO BOUNDARY OR DWELLING FINISHED FLOOR LEVEL.

	REVISIONS		STANDARD DETAILS	THE CITY OF UNLEY
	1	A. MOLLOY COU	NOV 2021 2013	SHEET 1 of 1
	0			REVISION 1
	No.	BY	DATE	DRAWING No.

**COMPLYING DRIVEWAY LONGITUDINAL GRADES
GARAGE/CARPORT STANDING AREA**

SCALE: AS SHOWN