

NOTES:

- DRAWING IS TO BE READ IN CONJUNCTION WITH C.61 & C.62.

AS2890.1 - OFF-STREET PARKING CODE:

GRADIENTS WITHIN PARKING MODULES:

- MAXIMUM GRADIENT PARALLEL TO THE ANGLE OF PARKING 5%.
- MEASURED IN ANY OTHER DIRECTION 6%.
- WITHIN DISABLED SPACES REFER TO NOTES FROM AS2890.6.

STRAIGHT RAMPS - PUBLIC CARPARKS

- LONGER THAN 20m, MAXIMUM GRADIENT OF 16.7%.
- UP TO 20m IN LENGTH, MAXIMUM GRADIENT OF 20%.
- MAXIMUM LENGTH TO INCLUDE GRADE TRANSITIONS THAT EXCEED 16.7%.
- STEPPED RAMPS COMPRISING OF LENGTHS EXCEEDING 16.7% SHALL HAVE TWO SEPARATE LENGTHS SEPARATED BY A GRADE OF NO MORE THAN 12.5% FOR 10m.

STRAIGHT RAMPS - PRIVATE OR RESIDENTIAL CARPARKS (OTHER THAN DOMESTIC DRIVEWAYS)

- LONGER THAN 20m, 20% MAXIMUM.
- UP TO 20m LONG, 25% MAX.
- 10.1. THE ALLOWABLE 20m MAXIMUM SHALL INCLUDE ANY PARTS OF GRADE TRANSITIONS THAT EXCEED 20%.
11. A STEPPED RAMP COMPRISING OF LENGTHS EXCEEDING 20% SHALL HAVE TWO LENGTHS SEPARATED BY A GRADE OF NO MORE THAN 12.5% FOR 10m.

CURVED RAMPS

- AS FOR STRAIGHT RAMPS, EXCEPT THE GRADE SHALL BE MEASURED ALONG THE INSIDE EDGE.

CHANGES OF GRADE

- TRANSITIONS ARE REQUIRED WHERE GRADE CHANGES ARE IN EXCESS OF:
 - 12.5% FOR SUMMITS.
 - 15% FOR SACS.
- TRANSITIONS OF 2.0m IN LENGTH WILL BE GENERALLY SUFFICIENT FOR GRADE CHANGES UP TO 18%.
- THE MAY BE PROVIDED AS A SIMPLE CHORD WITH GRADE CALCULATED AS HALF THE SUM OF THE TWO ADJOINING GRADES.
- GRADE CHANGES SHALL BE CHECKED FOR VERTICAL CLEARANCE IN THE FOLLOWING SITUATIONS:
 - GRADE CHANGES IN EXCESS OF 18%.
 - WHERE SUCCESSIVE GRADE CHANGES ARE LESS THAN 3m APART.
 - WHERE VEHICLES WITH LOW GROUND CLEARANCE ARE TO BE ACCOUNTED FOR.

DOMESTIC DRIVEWAYS

- THE MAXIMUM GRADE OF A DOMESTIC DRIVEWAY SHALL BE 25%.
- THE MAXIMUM DRIVEWAY GRADIENT ACROSS A PROPERTY LINE OR BUILDING ALIGNMENT SHALL BE 5%.

ACCESS DRIVEWAYS

- MAX GRADE OF 5% BETWEEN EDGE OF FRONTAGE ROAD AND PROPERTY LINE, BUILDING ALIGNMENT AND PEDESTRIAN PATH (OVERRULED BY TCCS RULES IN ACT)
- MAX GRADE OF 5% FOR FIRST 6.0m ON-SITE.
- MAX GRADE MAY BE INCREASED TO 12.5% PROVIDING ALL THREE OF THE BELOW ARE MET:
 - THE GRADE IS DOWNGRADE FOR EXITTING TRAFFIC.
 - THE USER CLASS OF PARKING IS CLASS 1, 1A OR 2 ONLY.
 - THE MAXIMUM CAR PARK SIZE IS 25 SPACES FOR ARTERIAL ROADS OR 100 CARSPACES FOR LOCAL ROADS.

VEHICLE CONTROL POINTS

- MAX GRADE OF 5% FOR AT LEAST 6m PRIOR TO THE CONTROL POINT.

QUEUING AREA

- MAX 10% FOR 80% OF THE QUEUE LENGTH.

ACROSS FOOTPATHS

- MAX GRADE 2.5% OVER A MINIMUM LENGTH OF 1.0m THROUGH FOOTPATH.

AS2890.2 - OFF-STREET COMMERCIAL VEHICLE FACILITIES

GRADIENTS

- REFER TO EXTRACT FROM AS2890.2 TABLE 3.2 INCLUDED IN RELATION TO MAXIMUM GRADIENTS FOR COMMERCIAL VEHICLES.
- ANY GRADE CHANGE OF 2% OR LESS CAN TAKE PLACE INSTANTANEOUSLY.
- ALL OTHER GRADE CHANGES ARE TO TAKE PLACE AT THE RATES AS PER THE TABLE.
- ALTERNATIVELY VEHICLE CLEARANCE CAN BE CHECKED AS LONG AS 50mm CLEARANCE IS MAINTAINED THROUGHOUT.

DRIVEWAY GRADES

- MAX GRADE OF 5% FROM THE PROPERTY LINE FOR THE LENGTH OF THE LONGEST WHEELBASE.
- FOR ARTICULATED VEHICLES THE WHEELBASE TO BE CONSIDERED IS THE LONGEST SINGLE SPAN BETWEEN THE CENTERS OF ANY TWO SUCCESSIVE AXLES OR AXLE GROUPS.

SERVICE AREAS

- MAXIMUM GRADIENT OF 4% IN ANY DIRECTION IN ANY PART OF SERVICE BAYS.
- THE MAXIMUM GRADIENT IN SERVICE AREAS SHALL BE 15.4% WHERE ONLY FORWARD MOVEMENT TAKES PLACE OR 12.5% WHERE REVERSE MOVEMENTS OCCUR.

AS1428.1 DESIGN FOR ACCESS AND MOBILITY - PART 1 - GENERAL REQUIREMENTS

WALKWAY GRADIENTS AND LANDINGS

- WALKWAYS NO GREATER THAN 25m LENGTH, MAX GRADE 3% (LANDINGS AT 25m INTERVALS).
- WALKWAYS NO GREATER THAN 15m LENGTH, MAX GRADE 5% (LANDINGS AT 15m INTERVALS).
- MAX GRADES FOR LENGTHS BETWEEN 15m AND 25m TO BE LINEARLY INTERPOLATED. (LANDINGS AT INTERPOLATED INTERVALS).
- WALKWAYS LESS THAN 3%, NO LANDINGS REQUIRED.
- LANDING INTERVALS CAN BE INCREASED BY 30% WHERE AT LEAST ONE OF THE BELOW IS PROVIDED:
 - A KERB OR KERB RAIL AND HANDRAIL.
 - A WALL AND HANDRAIL.

RAMP GRADIENTS AND LANDINGS

- MAX GRADIENT OF A RAMP LONGER THAN 1.9m IS 7.14%.
- GRADIENT IS TO BE CONSTANT THROUGHOUT ENTIRE LENGTH
- RAMP GRADIENTS OF 7.14%, LANDINGS AT 9m INTERVALS.
- RAMP GRADIENTS STEEPER THAN 5%, LANDINGS AT 15m INTERVALS.
- LANDINGS TO BE PROVIDED AT INTERVALS OF GRADES IN BETWEEN >5% AND 7.14% AT INTERVALS VIA LINEAR INTERPOLATION.
- LANDINGS ON STRAIGHT RAMPS TO BE 1.2m MINIMUM LENGTH.

ACT DCC FOR BEST PRACTICE WASTE MANAGEMENT - 2019

MGB CARTING

- MAXIMUM GRADE OF 10% ON MGB CARTING ROUTES (BASED ON RESIDENTIAL REQUIREMENTS).

HOPPER CARTING

- HOPPER COLLECTION PADS, MAX GRADE 3%.
- MANUAL TRANSFER ROUTES, MAX GRADE 3%.

WASTE COLLECTION VEHICLE ACCESS

- GRADIENTS AS PER AS2890.2.
- LOADING AND UNLOADING ON RAMPS IS NOT PERMITTED.
- LOADING AREAS, MAX GRADE 3%.

LEGEND

SERVICE

SERVICE	EXISTING	PROPOSED
WATER MAIN	eW	W
SEWER MAIN	eS	S
SEWER RISING MAIN	eSRM	
STORMWATER MAIN	eSW	SW
GAS MAIN	eG	G
ELECTRICITY	eE	E
ELECTRICITY UG/HV	eUG/HV	
ELECTRICITY UG/LV	eUG/LV	
STREETLIGHT MAIN	eSL	
OPTUS MAIN	eOP	
TELSTRA MAIN	eT	
TRANSACT MAIN	eTA	
COMMUNICATIONS	eC	
ABANDONED SERVICE	-X-X-ØW-X-X-	-X-X-X-X-X-
BLOCK BOUNDARY	-----	

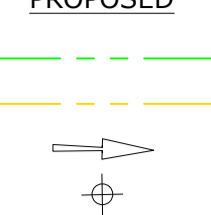
PROPOSED MAJOR CONTOUR (1.0m INTERVAL)

PROPOSED MINOR CONTOUR (0.25m INTERVAL)

PROPOSED FLOW DIRECTION

SPOT LEVEL

PROPOSED



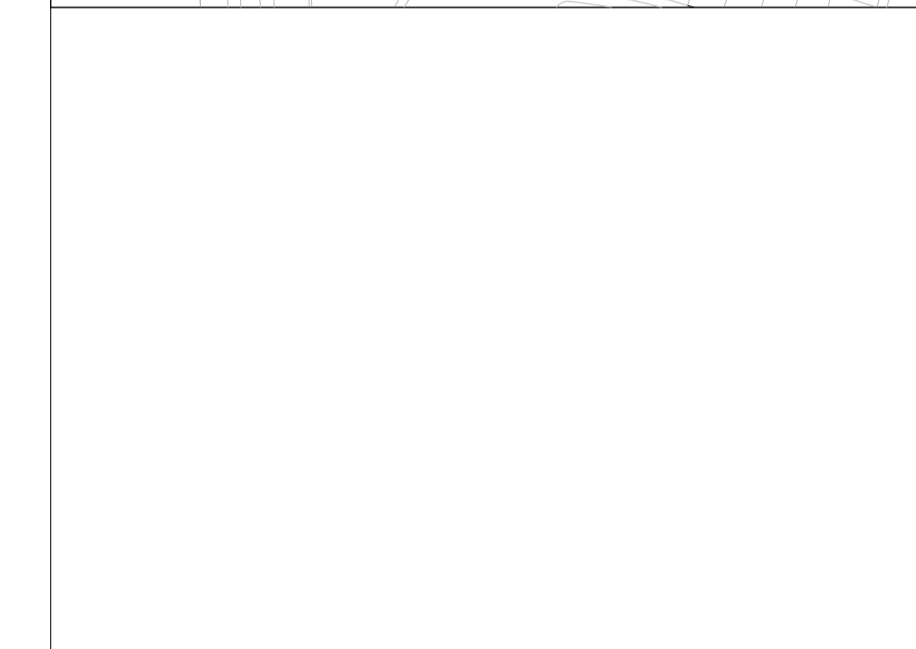
DISCIPLINE:

CIVIL SERVICES

REV	ISSUE	CHK'D	APP'D	DATE
1	PRELIMINARY	S.G.	S.G.	06/12/21
2	PRELIMINARY	S.G.	S.G.	24/02/22
3	PRELIMINARY	S.G.	S.G.	07/03/22
4	PRELIMINARY	S.S.	S.S.	16/03/22
5	PRELIMINARY	S.S.	S.S.	18/08/22

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IT IS THE CONTRACTORS' RESPONSIBILITY TO PRINT DRAWINGS IN COLOUR TO AVOID ANY POTENTIAL DISCREPANCIES IF DRAWINGS ARE PRINTED IN BLACK AND WHITE.



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ARCHITECT

CLIENT

PROJECT

**WESTON VILLAGE
BLOCK 1 SECTION 82
UNWIN STREET
WESTON ACT**

DRAWING TITLE

**SITE GRADING
NOTES AND DETAILS PLAN**

ALL DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORKS, ORDERING MATERIAL OR PRODUCING SHOP DRAWINGS.

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JOB REFERENCE
VS21063

DRAWING NUMBER
C.60

DESIGNED S.GWYNNE

DRAFTED E.PEARSON

SCALE

NTS

SCALE NTS

SIZE A1

ISSUE

**NOT FOR
CONSTRUCTION**

REVISION

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