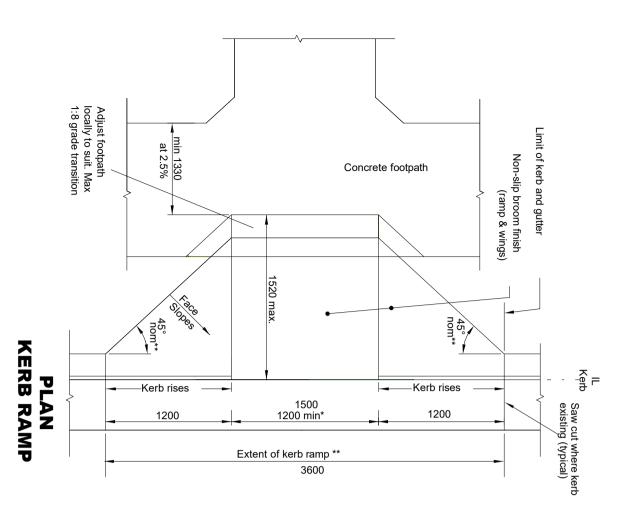


SECTION AT BARRIER KERB



* Note:

Increase to 1800mm where ramp is on side of path. eg:

NOTES:

- Concrete shall be min grade N25 in accordance with AS3600
- Construction shall be in accordance with Aus-Spec #1, C271 Minor Concrete Works.
- Refer ASD200 for kerb and gutter details
- Where possible use ramp grades less than maximum

ω 4. σ

- Where hand rail used provide min clear width 800mm
- Provide full depth bituminous fibreboard expansion joints at connections to kerbs and paths
- minimum of 2400 wide. All kerb ramps are to be aligned with the desired direction of pedestrian travel and to be a
- be as wide as the inside of the paint lines with a push button on it at a practical width no For marked foot crossings (shared pedestrian/bicycle crossing) sloping face of ramp should less than 2400.
- 85-150g/m or compressed granulated cork board. 10mm thick compressible filler. full depth, closed cell, cross linked polyethylene foam,

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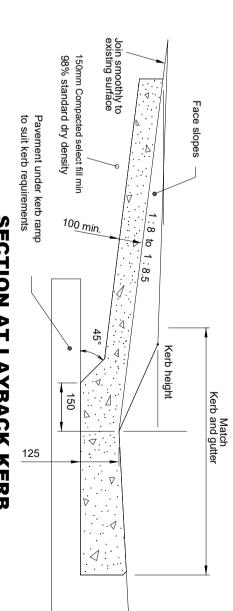
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6.

- Maximum width of ramp (including wings) 4.5m. ie: increase wing angle if necessary
- 12. All dimensions in millimetres unless otherwise stated
- 50mm of compacted sand or crusher dust to be provided under slab
- (not required over sand and gravel subgrade)

3

pedestrian areas in accordance with AS1428.1 TGSI's should be provided for non-complying ramps and heavy



SECTION AT LAYBACK KERB

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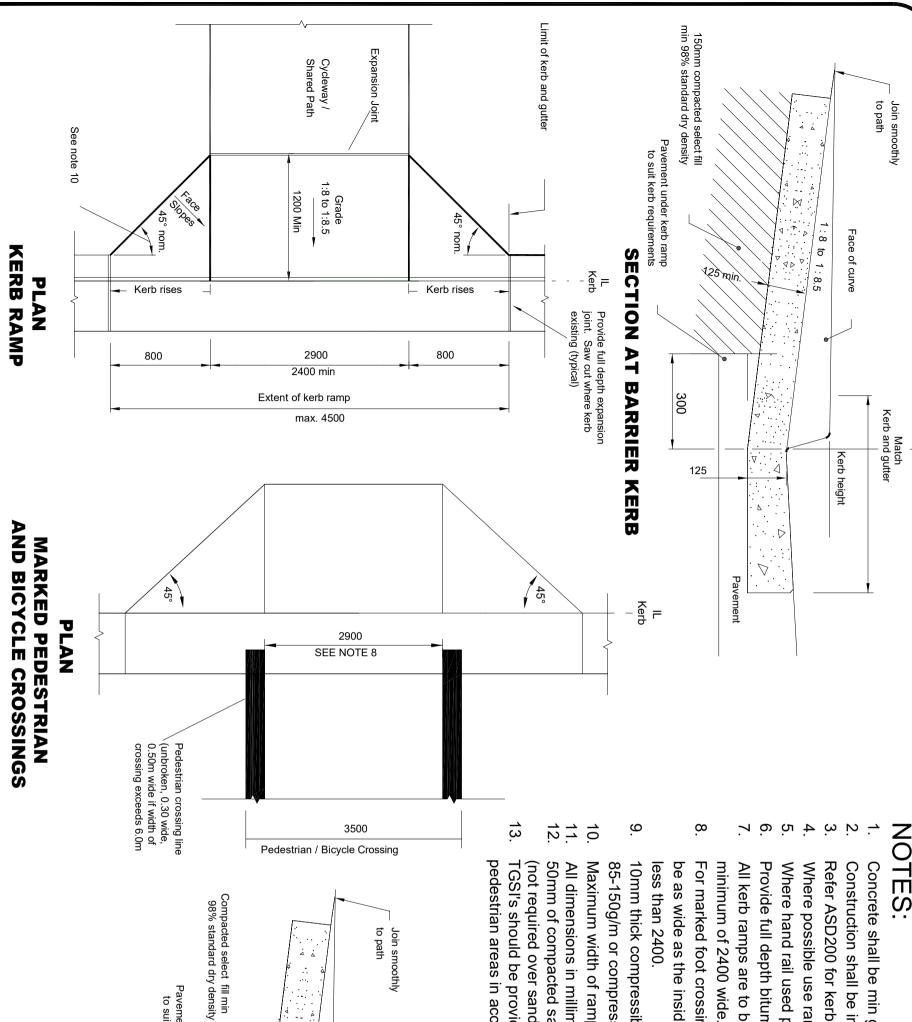


NOT TO SCALE

(including wings) 4.5m. ie: increase wing angle if necessary

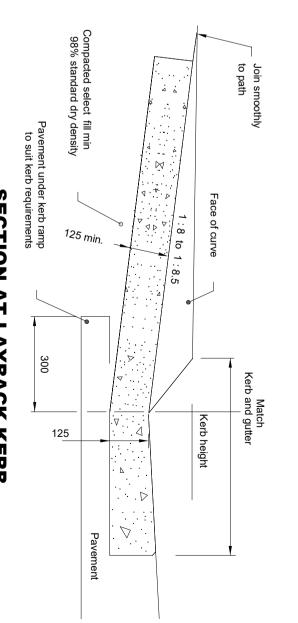
Maximum width of ramp

STANDARD PEDESTRIAN KERB KSC STANDARD DRAWING RAMP



- Concrete shall be min grade N25 in accordance with AS3600
- Construction shall be in accordance with Aus-Spec #1, C271 Minor Concrete Works.
- Refer ASD200 for kerb and gutter details
- Where possible use ramp grades less than maximum

- Provide full depth bituminous fibreboard expansion joints at connections to kerbs and paths Where hand rail used provide min clear width 800mm
- All kerb ramps are to be aligned with the desired direction of pedestrian travel and to be a
- be as wide as the inside of the paint lines with a push button on it at a practical width no For marked foot crossings (shared pedestrian/bicycle crossing) sloping face of ramp should ess than 2400.
- 85-150g/m or compressed granulated cork board. 10mm thick compressible filler. full depth, closed cell, cross linked polyethylene foam,
- Maximum width of ramp (including wings) 4.5m. ie: increase wing angle if necessary
- All dimensions in millimetres unless otherwise stated
- 50mm of compacted sand or crusher dust to be provided under slab
- (not required over sand and gravel subgrade)
- TGSI's should be provided for non-complying ramps and heavy pedestrian areas in accordance with AS1428.1



SECTION AT LAYBACK KERB

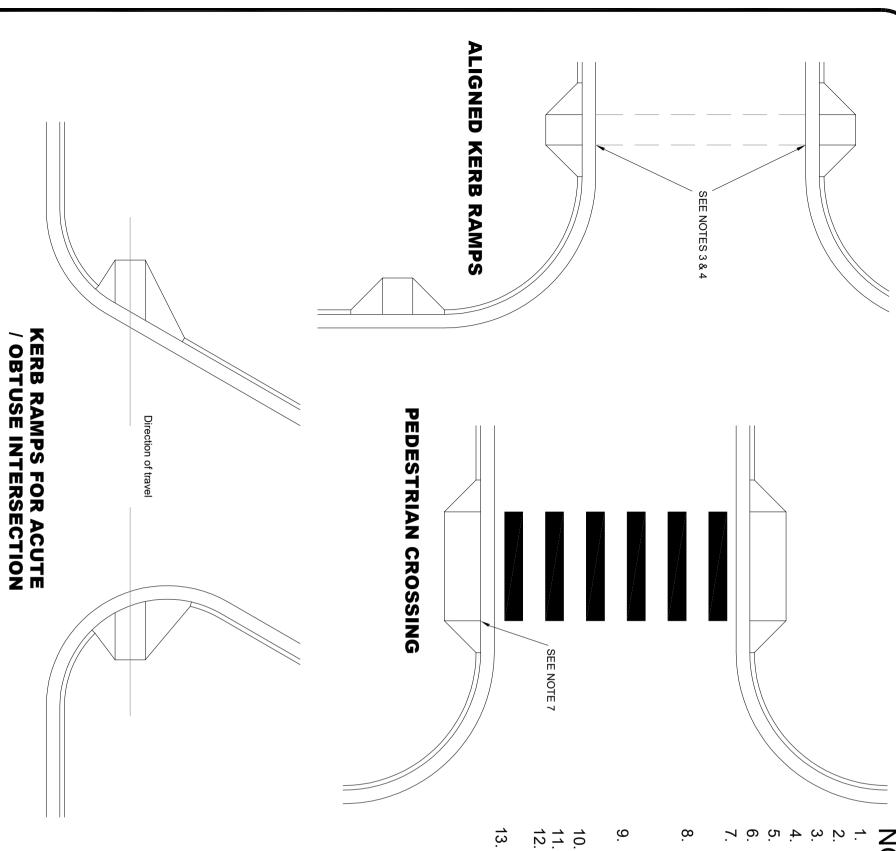
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> MARKED PEDESTRIAN & BICYCLE CROSSING KSC STANDARD DRAWING KERB RAMP

ASD 101

NOT TO SCALE

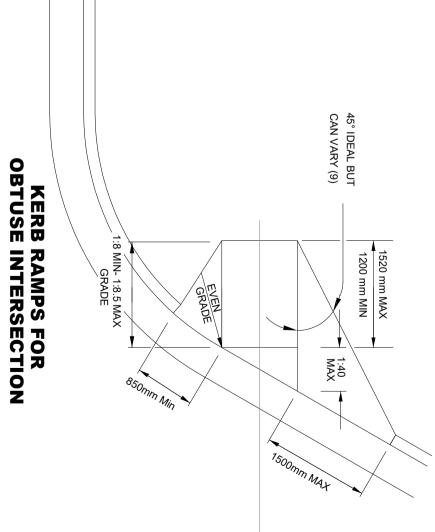
KEMPSEY



- Concrete shall be min grade N25 in accordance with AS3600
- Construction shall be in accordance with Aus-Spec #1, C271 Minor Concrete Works.
- Refer ASD200 for kerb and gutter details
- Where possible use ramp grades less than maximum
- Where hand rail used provide min clear width 800mm
- Provide full depth bituminous fibreboard expansion joints at connections to kerbs and paths
- minimum of 2400 wide. All kerb ramps are to be aligned with the desired direction of pedestrian travel and to be a
- 10mm thick compressible filler. full depth, closed cell, cross linked polyethylene foam, less than 2400.

be as wide as the inside of the paint lines with a push button on it at a practical width no For marked foot crossings (shared pedestrian/bicycle crossing) sloping face of ramp should

- 85-150g/m or compressed granulated cork board.
- Maximum width of ramp (including wings) 4.5m. ie: increase wing angle if necessary All dimensions in millimetres unless otherwise stated
- (not required over sand and gravel subgrade) 50mm of compacted sand or crusher dust to be provided under slab
- TGSI's should be provided for non-complying ramps and heavy pedestrian areas in accordance with AS1428.1



KSC STANDARD DRAWING KERB RAMP ALIGNMENTS

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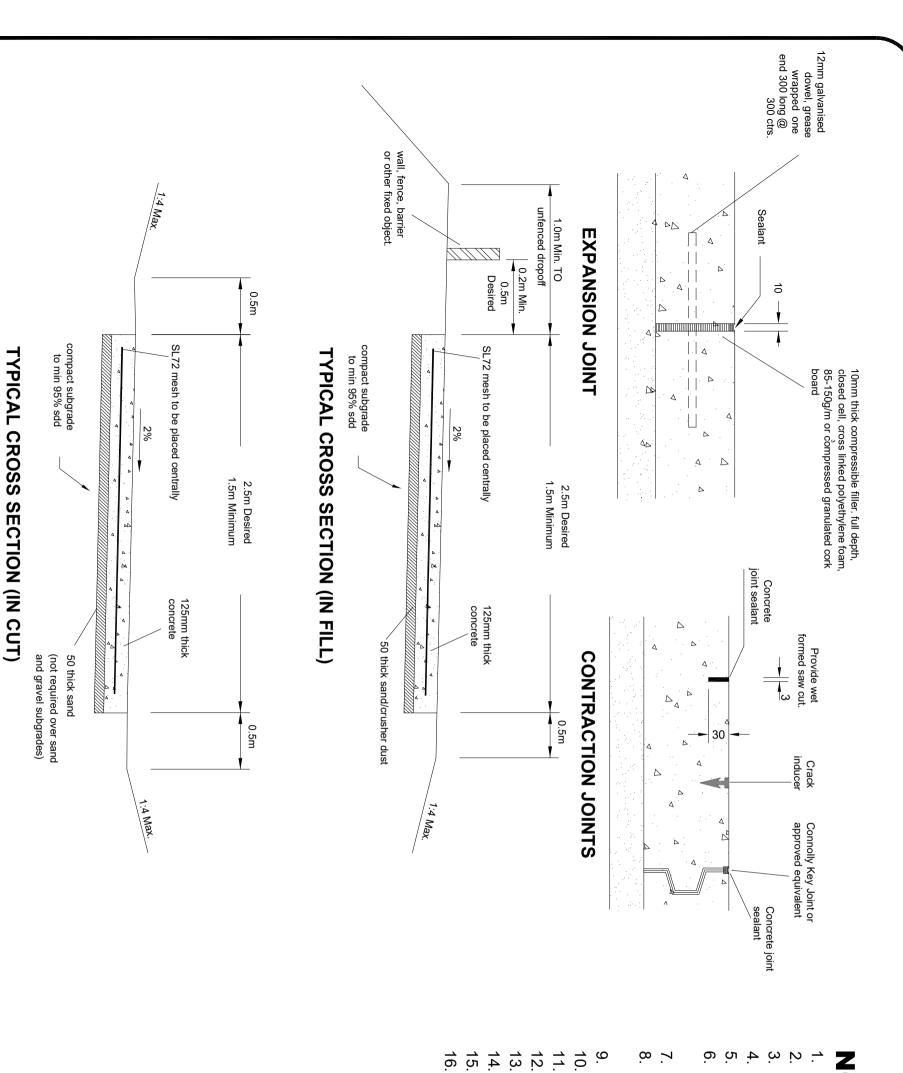
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KEMPSEY



- Concrete to be min N25 to AS3600
- Construction shall be accordance with Aus-Spec #1,
- 20mm Aggregate size with an 80mm slump
- Provide expansion joints at max. 12m centres
- Provide contraction joints at 2m to 3m centres
- structures. Provide expansion joints at connections to kerbs and
- Path surface shall be non slip trowel or broom finished
- Make smooth connection to existing paths, max step +3mm above, -0mm below existing. Round all edges.
- Clearance to obstructions from path shall be min 0.2m
- Provide expansion joint both sides of vehicle crossing.
- For industrial vehicle crossings refer to ASD 202

For residential vehicle crossings refer to ASD 201

- <u>1</u>3. Path crossfall shall be max 1:50
- All dimension are in millimetres unless otherwise stated
- heavy pedestrian areas in accordance with AS1428.1 Refer to AS 1428.2 for gradients of ramps and landings. TGSI's should be provided for non-complying ramps and

KSC STANDARD DRAWING STANDARD FOOTPATH DETAILS

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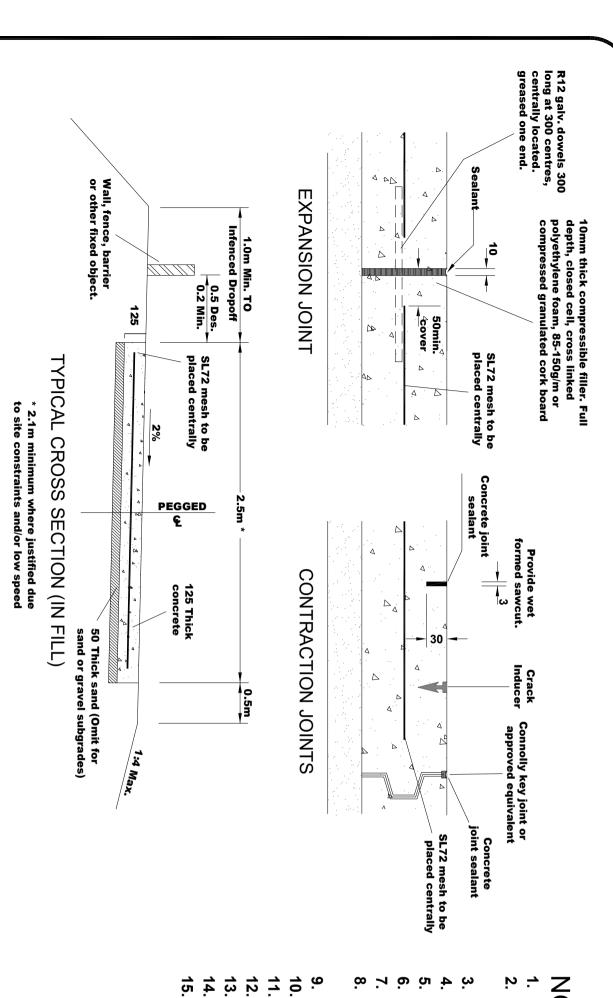
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KEMPSEY

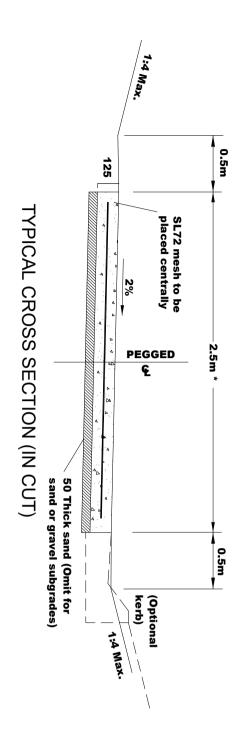
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- Concrete to be min N25 t to AS3600
- Construction shall be accordance with Aus-Spec #1, C271 Minor Concrete Works.
- 20mm Aggregate size with an 80mm slump
- 4. Provide expansion joints at max. 12m centres
- 5 Provide contraction joints at 2m to 3m centres
- Path surface shall be non slip trowel finished. Provide expansion joints at connections to kerbs and structures.
- Make smooth connection to existing paths, max step +3mm above, -0mm below existing. Round all edges.
- Clearance to obstructions from path shall be min 0.2m
- Provide expansion joint both sides of vehicle crossing.
- For industrial vehicle crossings refer to ASD 202
- For residential vehicle crossings refer to ASD 201
- Path crossfall shall be max 1:50
- All dimensions in millimetres unless otherwise stated
- pedestrian areas in accordance with AS1428.1 TGSI's should be provided for non-complying ramps and heavy

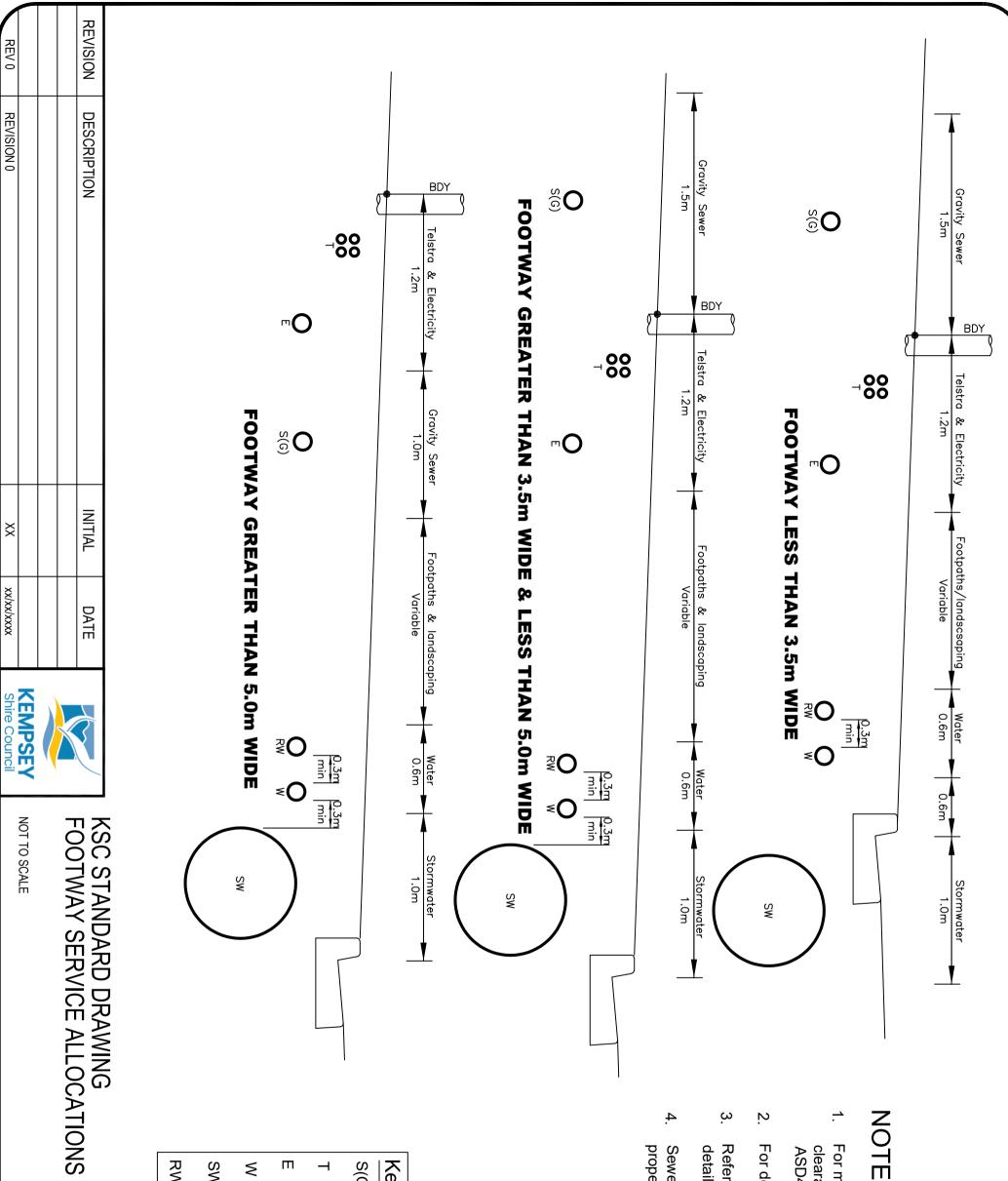


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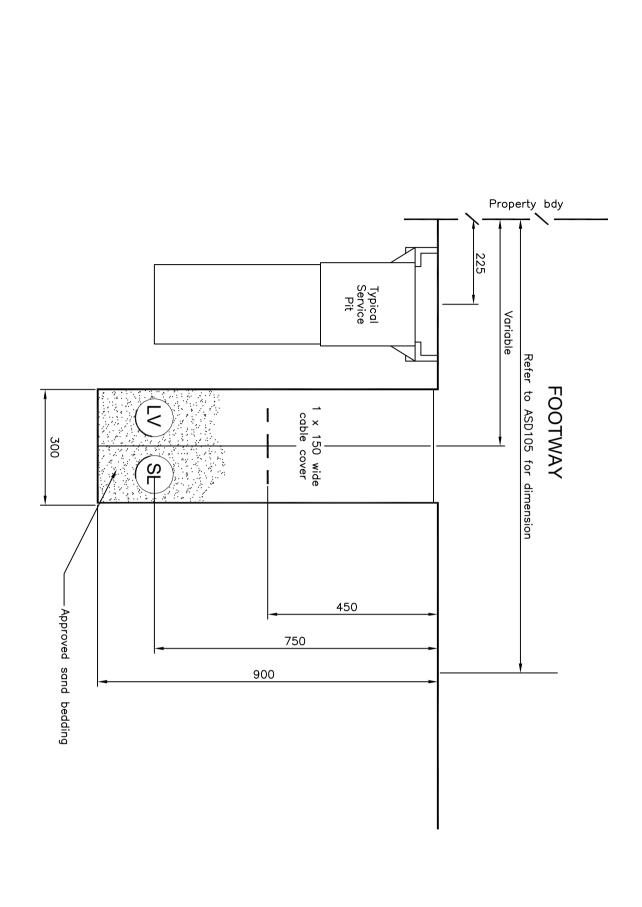
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STANDARD CYCLEWAY DETAILS KSC STANDARD DRAWING



- clearance & cover see ASD405 & ASD406 For more detail on water main location,
- For details on tree planting see ASD808
- Refer to ASD106 for underground power
- Sewer Rising mains to be located outside property. Subject to approval by council.

WS S(G) = Sewer (gravity main only) Key RW = ≶ Ш II П Electricity Cable/pole Reclaimed Water Stormwater pipe Water Pipe Telstra cable



- LV = Low voltage power conduit.
- SL = Streetlight power conduit.
- All dimensions shown are in millimetres.

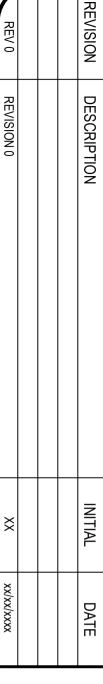
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- ground is to be topsoiled & turfed upon backfilling of trench. Where trenching occurs in existing footway, area of disturbed
- Refer to ASD105 for footway allocation.

9

TRENCHING REQUIREMENTS FOR **UNDERGROUND POWER** IN ROAD OPENINGS





KSC STANDARD DRAWING
TRENCHING REQUIREMENTS FOR LOW VOLTAGE
UNDERGROUND POWER IN ROAD OPENINGS
ASD 107

Type Use	
(for dimensions shown * see marker spacing column)	Dimensions (m)
Colour	
Marker Type	Raised
Normal spacing	* Marker S
Alternate spacing	pacing (m)

SEPARATION LINES

S2	\$1
Sęparation line on multi lane road	S1 Separation line on 2 lane road
	3 9 3 9 0.10
White	White
⋨	YY
24	24
12	12

BARRIER LINES

BS	BB	
1. Replaces separation line if restricted sight distance in one direction. 2. Approach to median or 3. Approach to a pedestrian crossing	1. Replaces separation line if restricted sight distance for both directions. Or 2. Approach to median Island.	
0.02 0.08	0.08	
White	White	
TYY TY	 → 	
12	12	
12	12	

LANE LINES

				-		
_	24	Ť	VVIII (e	0.02		
ò	2		14/6/th		Lane line on multi lane road	L3
12	24	□	White		Lane line on multi lane road	L2
12	24	₹	White	1 3 4 9 4 3 9 0.08 1 4 4 9 0.08	Lane line on multi lane road	
						֓֞֟֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֝֟֝֟֝֟֝֟֝֟֝֟֝֝֟֝

Line Type	
Use	
Dimensions (m) (for dimensions shown * see marker spacing column)	
Colour	
Raised Marker Type	
* Marker S Normal spacing	

pacing (m)

Alternate spacing

CONTINUITY LINES

EDGE LINES

! !	E5	E4	E3	E2	E1
	Outline of painted median	Outline of traffic island or freeway ramp gore	Right hand edge line on divided carriageway	Left hand edge line on freeway	Left hand edge line on general purpose road
			- * - - * - - * - - - - -		0.02
	White	White	White	White	White
	⋠	\$	Y	R	
	12	12	24	24	24
	12	12	12	12	12

TURN LINES

T1
Defines turning paths at complex intersections
0.6 0.6 0.6 0.6 0.6 0.6 0.6
White
I
I
I

RAISED PAVEMENT MARKERS

When pavement markers are used to supplement lines, two different spacings may be employed:-

- Normal spacing applies when their is no street lighting and travel speed is greater than or equal to 75 km/h.
- Alternative spacing is adopted when either street lighting exists or travel speed is less than 75 km/h. Closer spacing may be required on sharp crests or curves to ensure that at least two markers are in a driver's field of view at all times.

This plan has been adopted from the plan produced by the Roads and Traffic Authority NSW (RTA) Drawing Number MD.R60.A01.A Amended January 1996 (RTA) (Edge Line (E1) Continuous Line). REFER TO CURRENT EQUIVALENT EDITION BEFORE USING.

KSC STANDARD DRAWING PAVEMENT
LINEMARKING & DIMENSIONS



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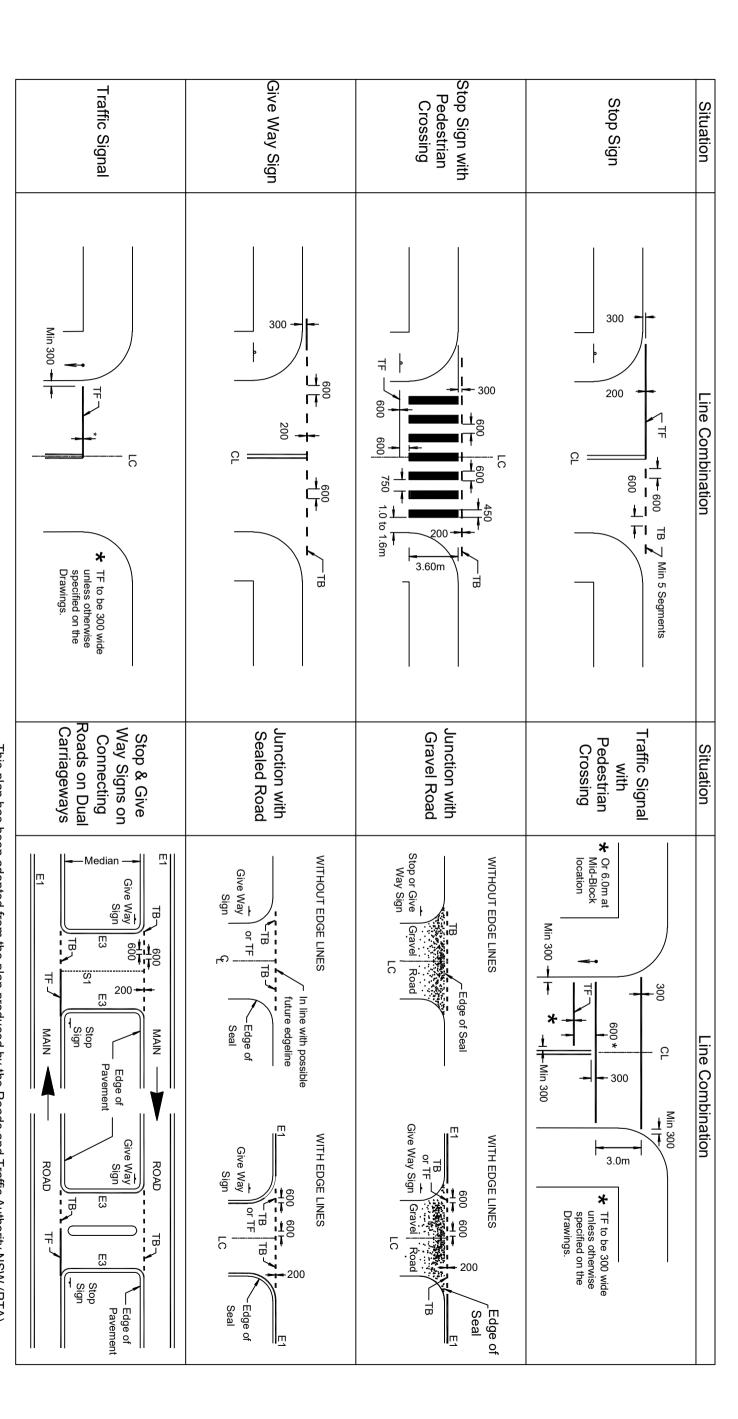
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NOT TO SCALE



TRANSVERSE LINES

Two forms of transverse lines are painted across road pavements :-

- Stop lines TF (Unbroken line)
- Holding lines TB (Broken line with 600mm segments separated by 600 gaps)

All Dimensions are in millimetres

This plan has been adopted from the plan produced by the Roads and Traffic Authority NSW (RTA) Drawing Number MD.R60.A02.A. REFER TO CURRENT EQUIVALENT EDITION BEFORE USING.

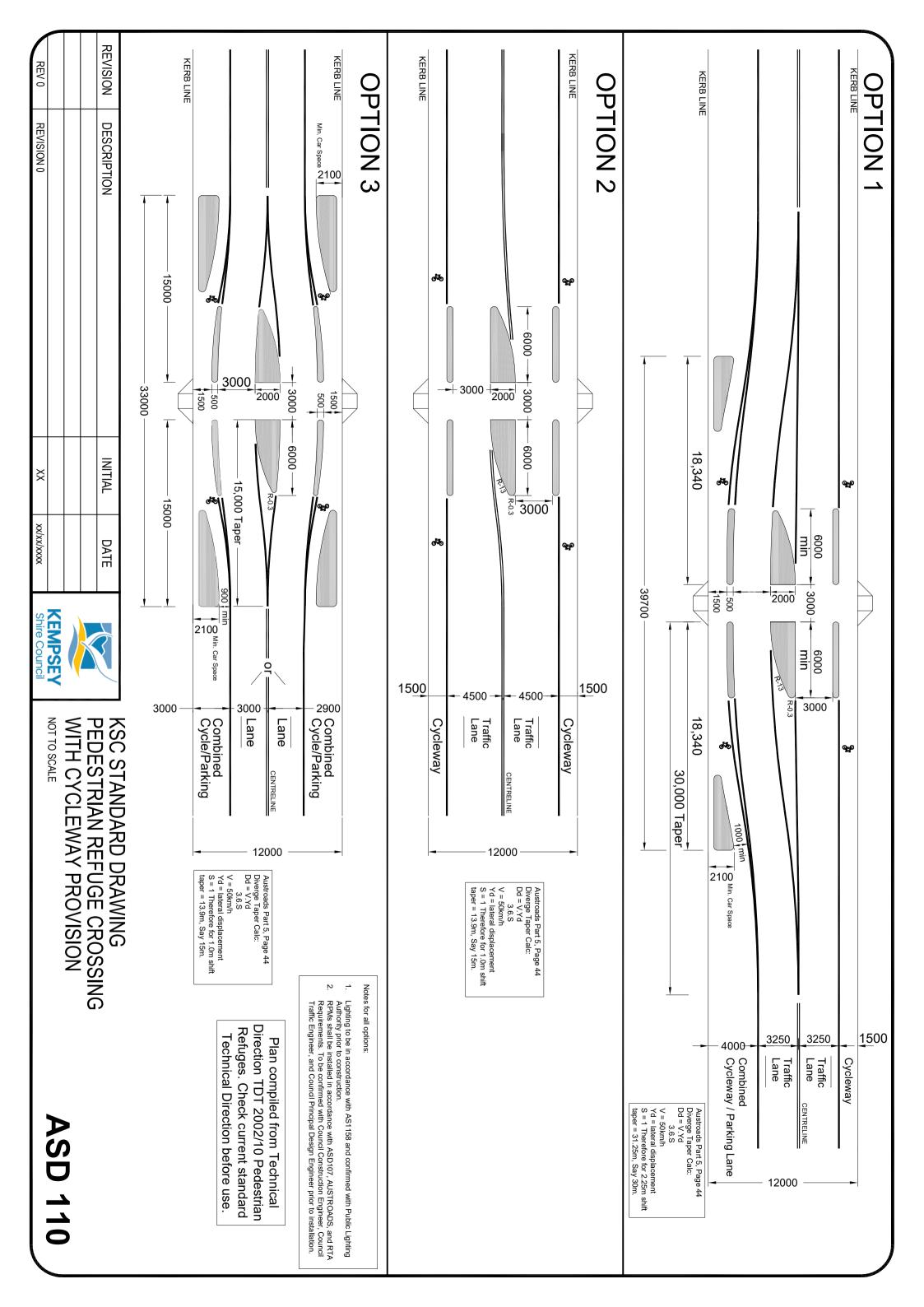
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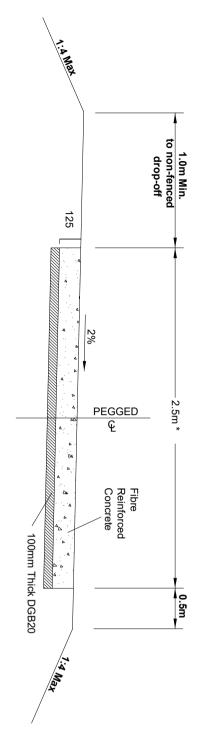
KSC STANDARD DRAWING DETAILS OF TRANSVERSE LINES

ASD 109

NOT TO SCALE

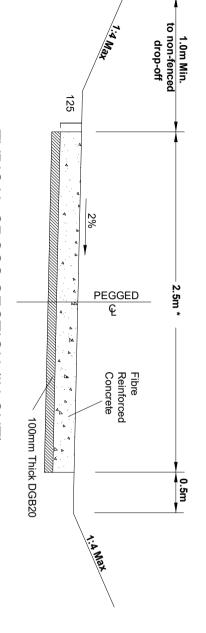


Sealant **EXPANSION JOINT** 10mm thick compressible filler. Full depth, closed cell, cross linked polyethylene foam, 85-150g/m or compressed granulated cork board 0 Δ Concrete joint Provide wet formed sawcut. **CONTRACTION JOINTS**



TYPICAL CROSS SECTION (IN FILL)

to site constraints and/or low speed * 2.1m minimum where justified due



TYPICAL CROSS SECTION (IN CUT)

to site constraints and/or low speed * 2.1m minimum where justified due

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NOTES:

Concrete to be min N25 to AS3600

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- Construction shall be accordance with Aus-Spec #1, C271 Minor Concrete Works
- 20mm Aggregate size with an 30mm slump
- Provide expansion joints at max. 36m centres
- Provide contraction joints at 2.5m to 3m centres
- Provide expansion joints at connections to kerbs and structures
- Path surface shall be non slip trowel finished
- below existing. Round all edges Make smooth connection to existing paths, max step +3mm above, -0mm
- Provide expansion joint both sides of vehicle crossing
- For industrial vehicle crossings refer to ASD 202 For residential vehicle crossings refer to ASD 201
- Path crossfall shall be max 1:50
- All dimensions in millimetres unless otherwise stated

<u>3</u> 12. <u>1</u>

- Machine clearances: 0.6m - Track Side
- 1.6m St tring Line Side
- Fibre @ 0.9 kg/m³ (Typical)
- Excavate 0.15m each side of path width

16.

Extend grade of 2% for minimum of 0.5m each side of path

STANDARD CYCLEWAY DETAILS - SLIPFORMED CONSTRUCTION KSC STANDARD DRAWING NOT TO SCALE