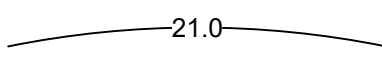

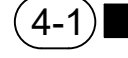

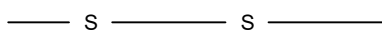

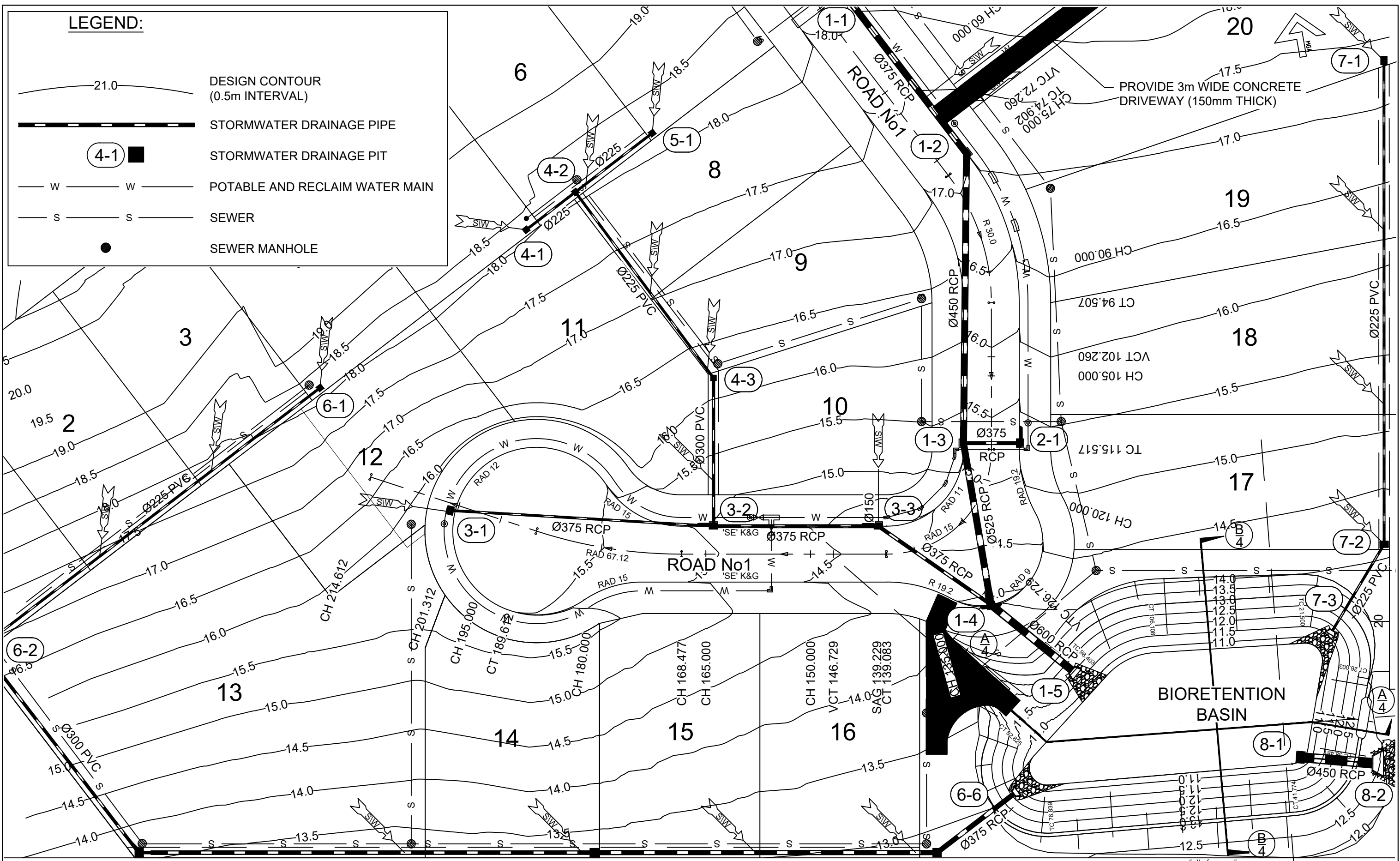


LEGEND:

-  DESIGN CONTOUR (0.5m INTERVAL)
-  STORMWATER DRAINAGE PIPE
-  STORMWATER DRAINAGE PIT
-  POTABLE AND RECLAIM WATER MAIN
-  SEWER
-  SEWER MANHOLE



PROVIDE 3m WIDE CONCRETE DRIVEWAY (150mm THICK)

www.dialbeforeyoudig.com.au



NOT TO SCALE

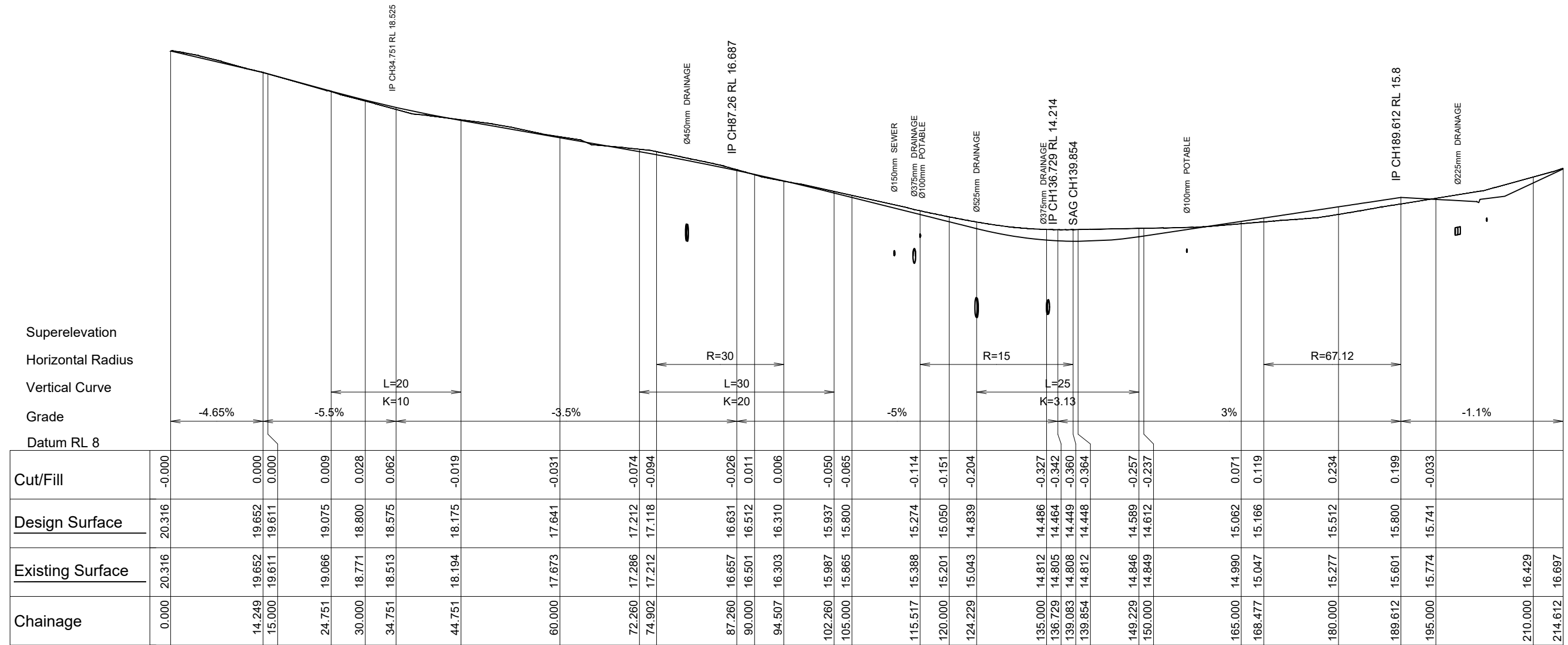
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GENERAL LAYOUT PLAN

SD-RD-001




Horizontal Scale 1:500
Vertical Scale 1:100

LONGITUDINAL SECTION ROAD No1

NOT TO SCALE

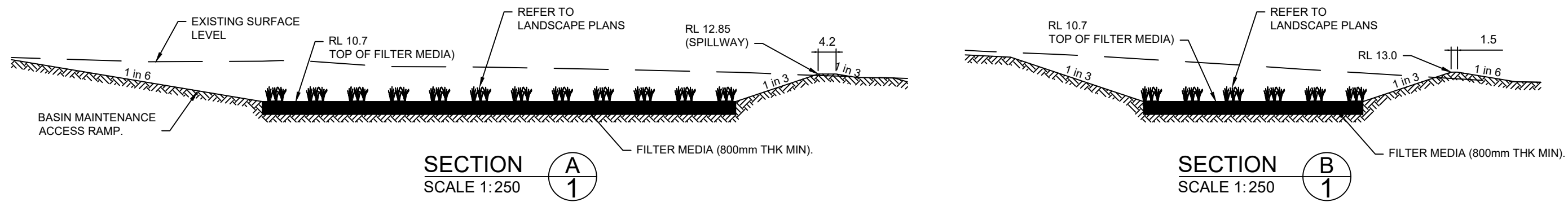
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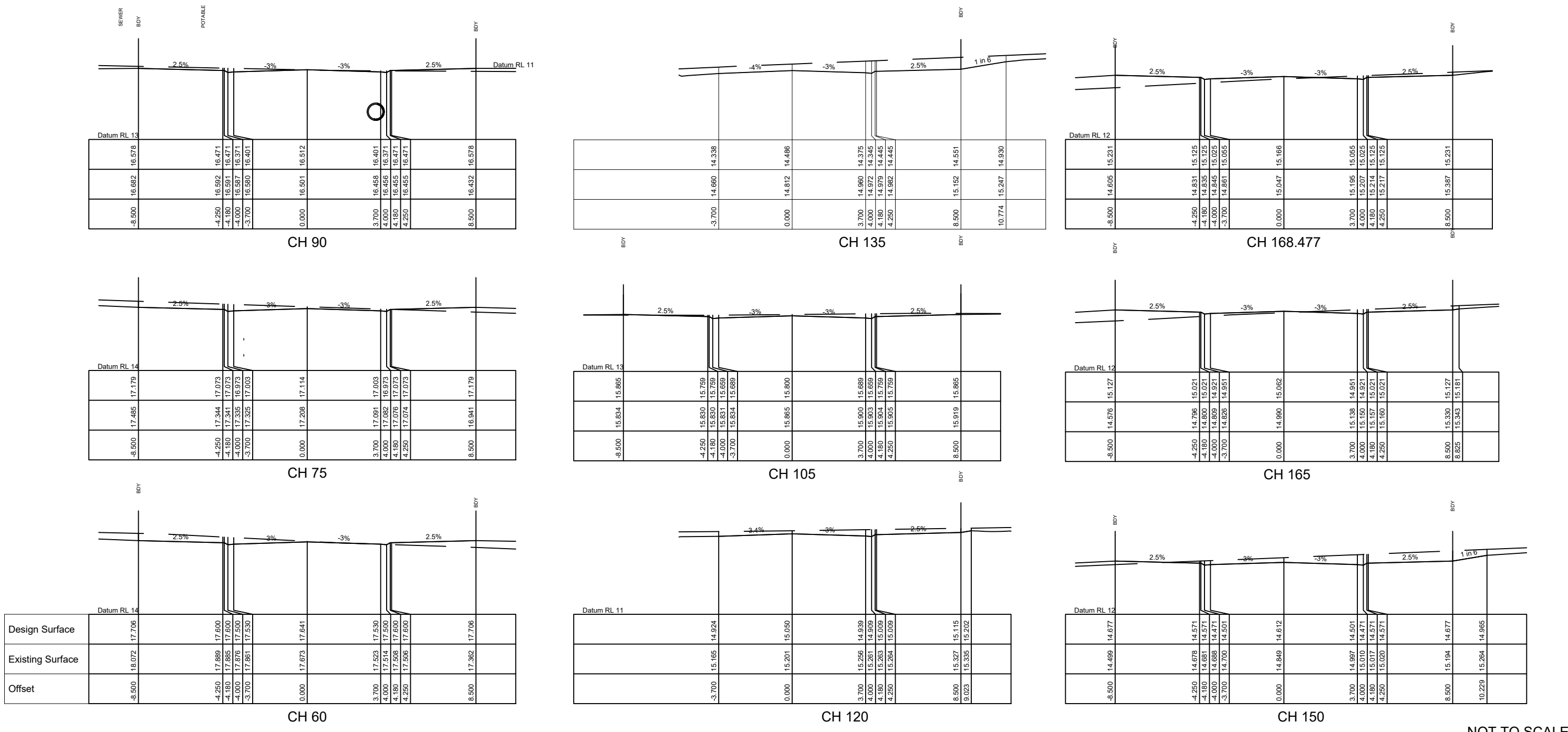
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ROAD LONGITUDINAL SECTION

SD-RD-002



BIORETENTION BASIN CROSS SECTIONS



NOT TO SCALE

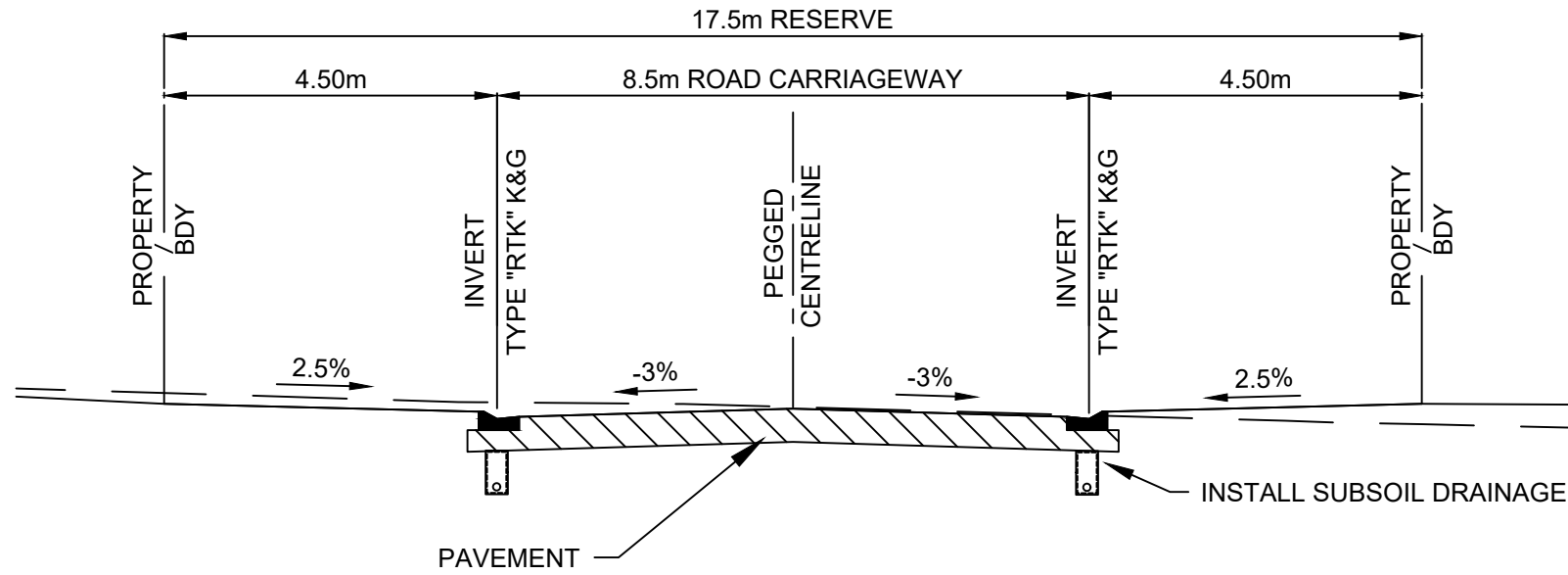
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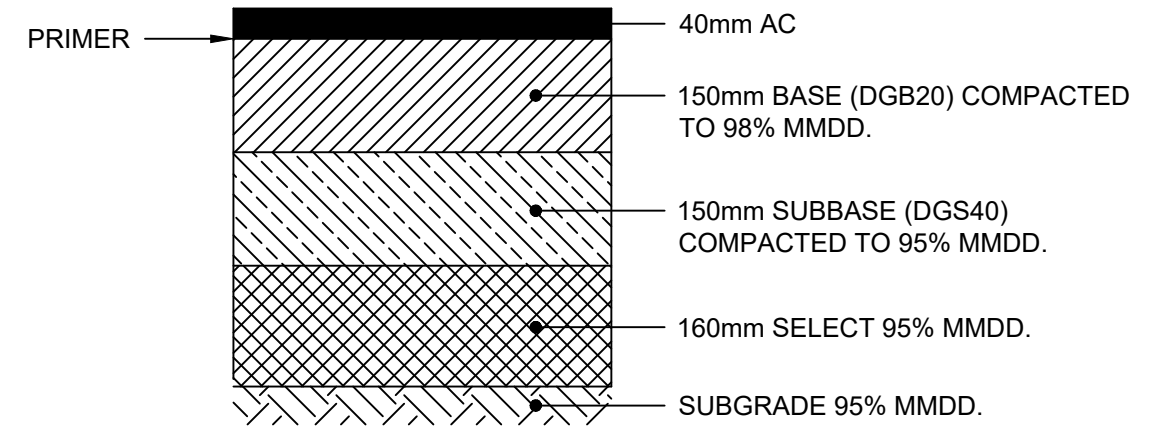
ROAD & BIORETENTION BASIN CROSS SECTIONS

SD-RD-003

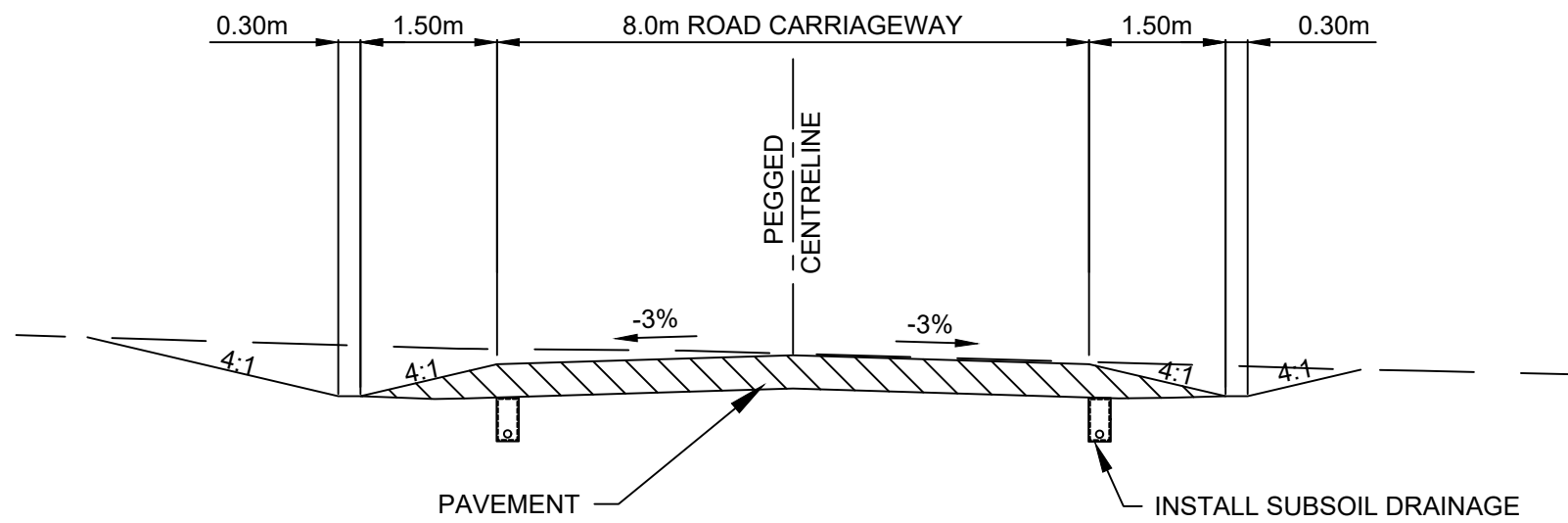


TYPICAL CROSS SECTION- URBAN
ROAD No1
 SCALE 1:100

Note:
 Pavement detail sample only (subject to specific geotechnical information and design).

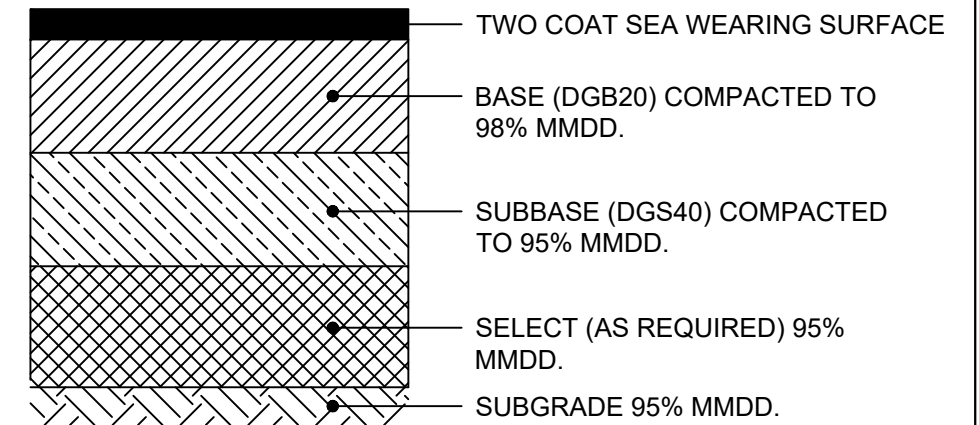


EXAMPLE- 500mm (inc. AC) PAVEMENT DETAIL
 GENERAL MINIMUM REQUIREMENTS



TYPICAL CROSS SECTION- RURAL
ROAD No2
 SCALE 1:100

Note:
 Pavement detail sample only (subject to specific geotechnical information and design).



EXAMPLE- RURAL PAVEMENT DETAIL
 GENERAL MINIMUM REQUIREMENTS

NOT TO SCALE

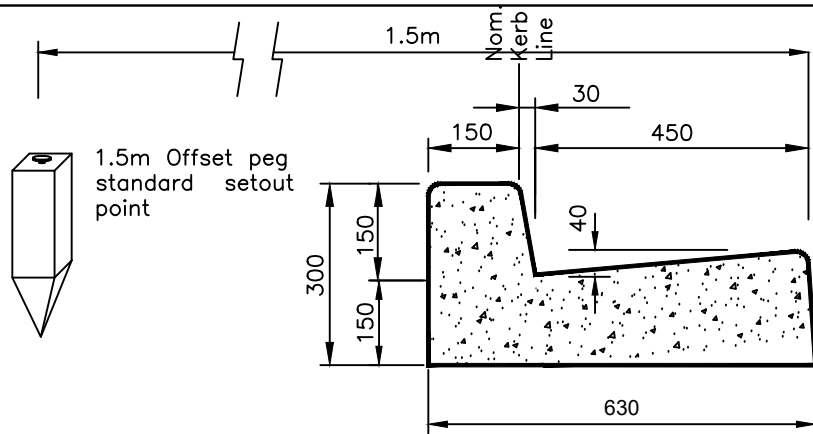
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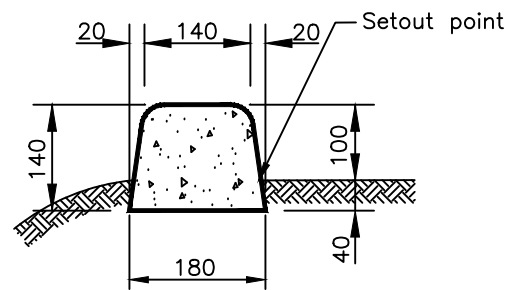
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TYPICAL ROAD CROSS SECTION & PAVEMENT DETAILS

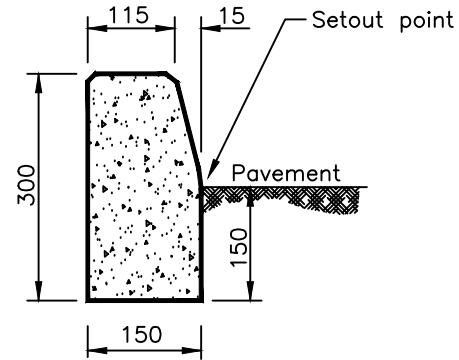
SD-RD-004



MODIFIED SA TYPE KERB & GUTTER



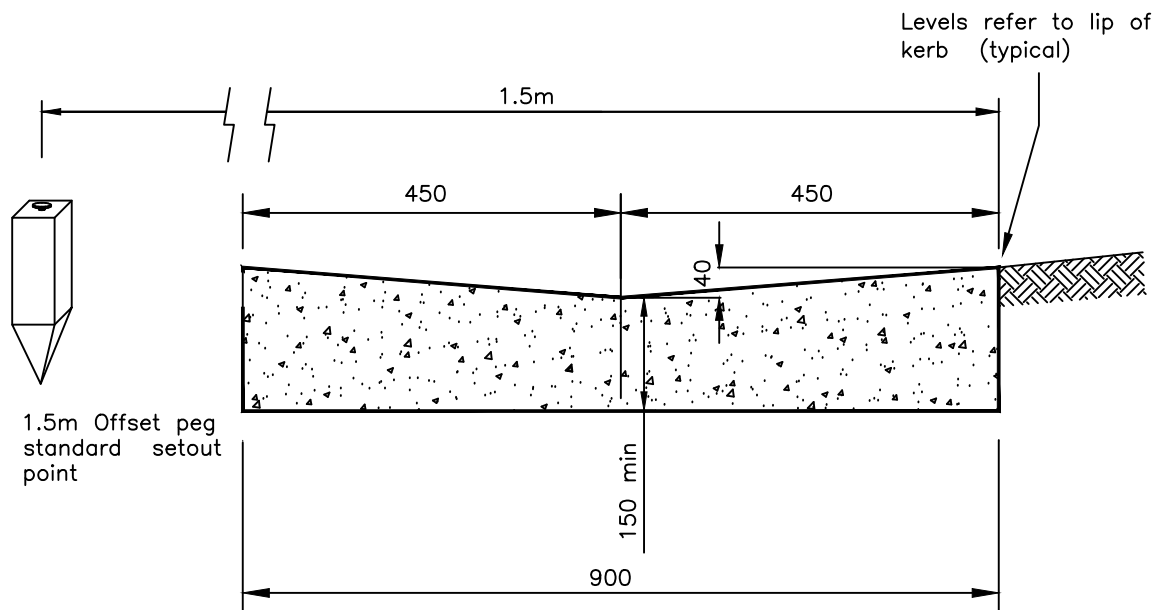
**MODIFIED TYPE "SG KERB"
STANDARD GUARDFENCE KERB**



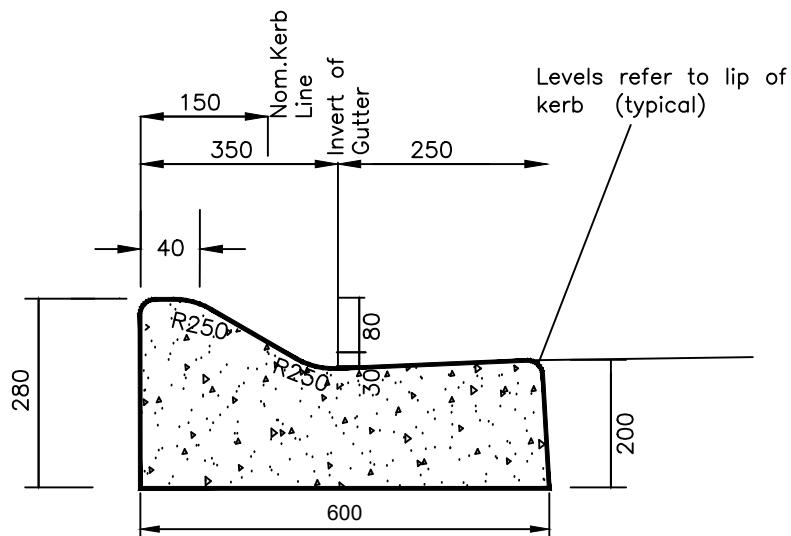
**MODIFIED TYPE "SM KERB"
KERB ONLY**

NOTES:

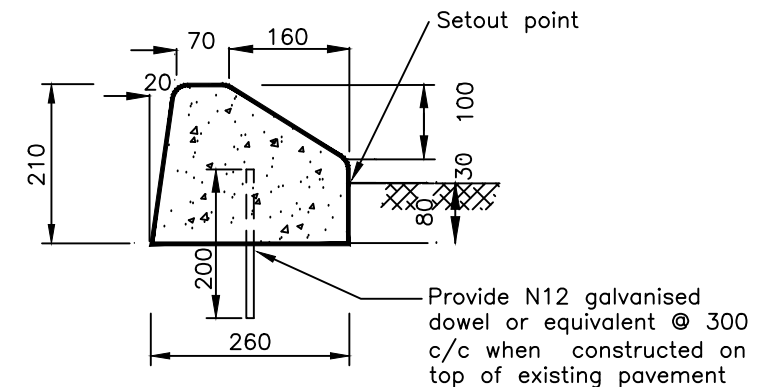
- Kerb and gutter and dish drain kerb shall be constructed in accordance with Aus-Spec 1121 - Open Drains.
- Concrete strength to be N32 at 28 days
- Gravel thickness below kerb:
New Road Works: Road Sub-base to be extended under kerbs, gutters, aprons & dish drains
Kerb & Gutter retrofit to existing roads: Provide Sub-base equivalent to existing Sub-base under pavement. Where existing Sub-base depth cannot be determined provide min. 200mm roadbase compacted to 98% standard dry density
- Setout requirements, unless shown otherwise shall be
Kerb & Gutter - Setout 1.50m behind lip of kerb
- Setout radii less than 1m at centre points
- Levels to lip of kerb
Dish Drains - Setout 1.50m behind lip of kerb
- Setout to radii less than 1m at centre points
- Levels to lip
- Backfill behind kerb to full height of kerb.
- Radius < 2.0m - CP & TP
Radius > 2.0m & < 5m - TP & mid point
Radius > 5m - TP & 3m segments
- All dimensions in millimetres unless otherwise stated



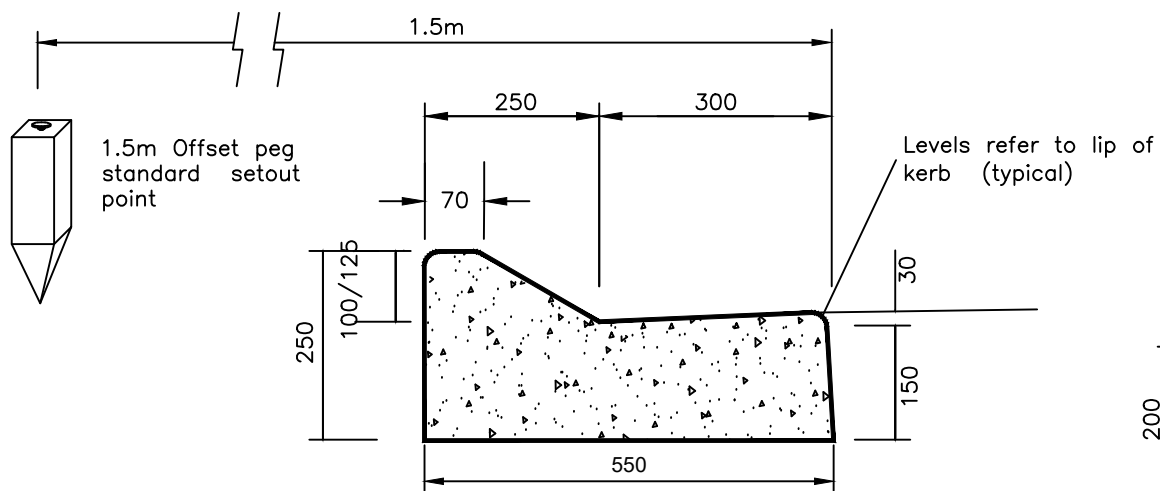
**MODIFIED TYPE "SB KERB"
DISHDRAIN KERB**



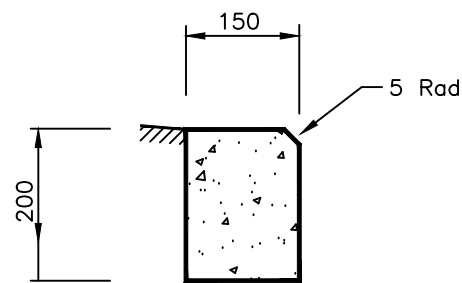
**MODIFIED TYPE "RT KERB"
ROLL TOP KERB & GUTTER**



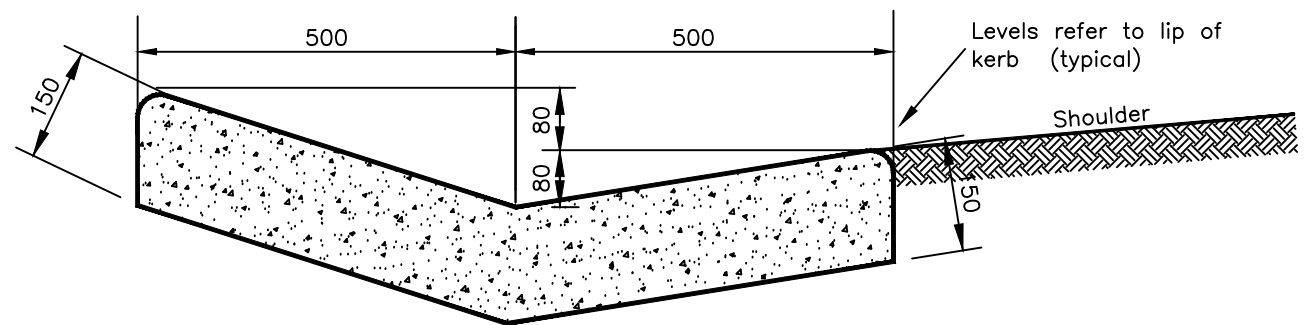
**MODIFIED TYPE "SF KERB"
MEDIAN KERB**



**MODIFIED TYPE "SE KERB"
STANDARD LAYBACK KERB & GUTTER**



**STANDARD
EDGE STRIP**



**MODIFIED TYPE "SH KERB"
DISHDRAIN KERB**

NOT TO SCALE

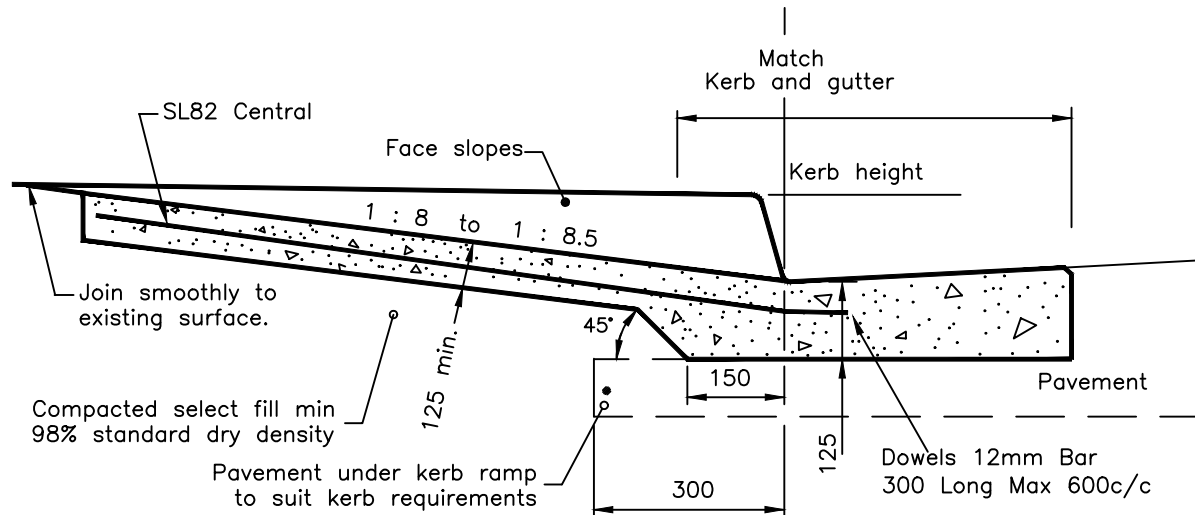
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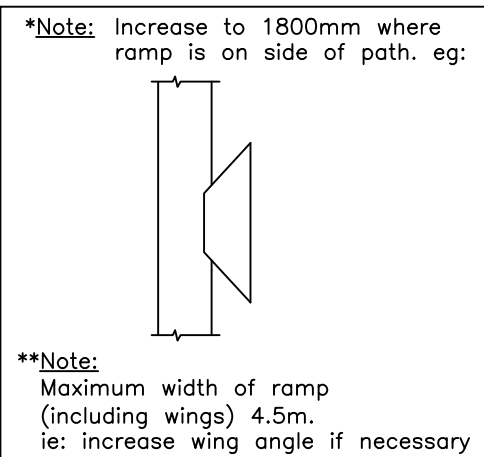
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**STANDARD KERB PROFILES
AND SETOUT**

SD-RD-005

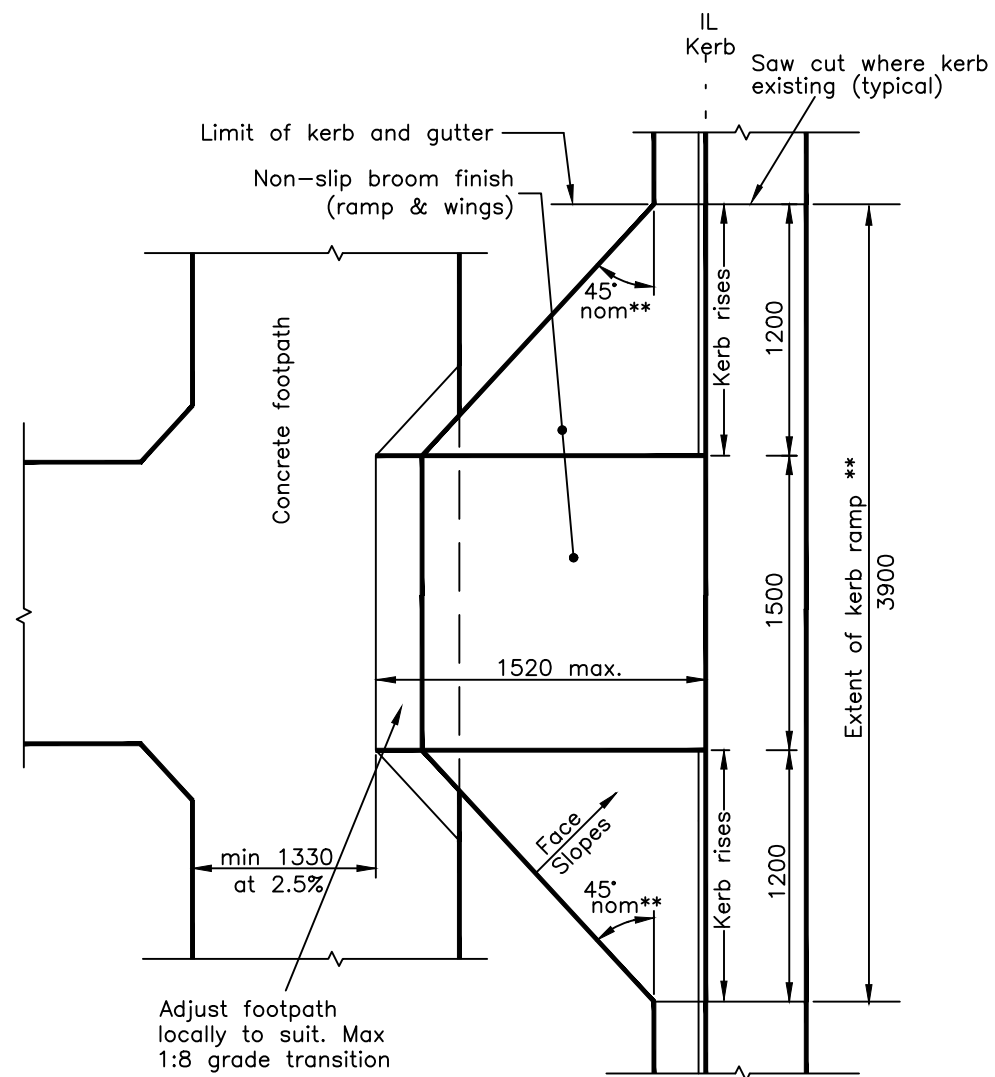


SECTION AT BARRIER KERB

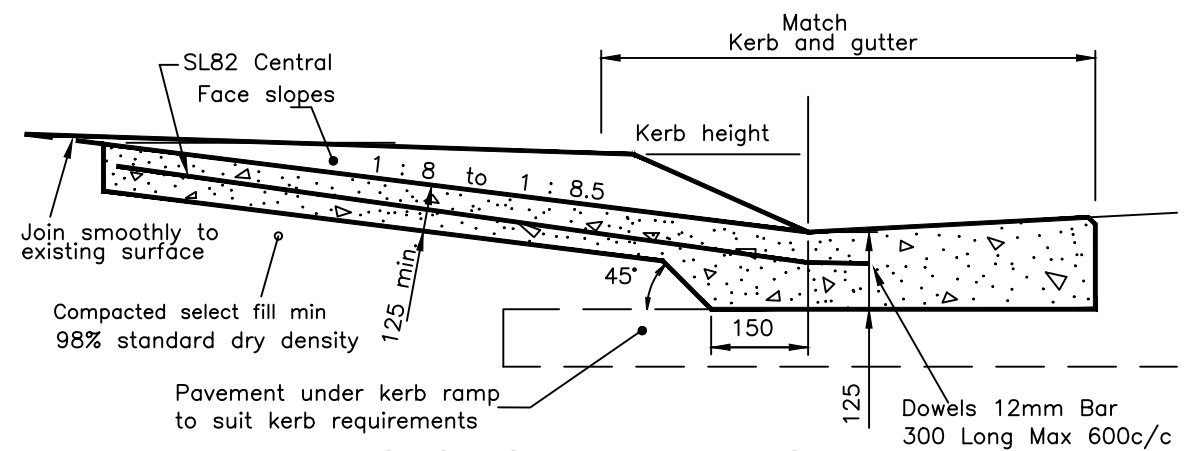


NOTES:

1. Concrete shall be min grade N32 in accordance with AS3600
2. Construction shall be in accordance with Aus-Spec 0319 - Auxiliary concrete works.
3. Refer SD-RD-005 for kerb and gutter details
4. Where hand rail used provide min clear width 800mm
5. 10mm thick compressible filler. full depth, closed cell, cross linked polyethylene foam, 85-150g/m or compressed granulated cork board
6. All kerb ramps are to be aligned with the desired direction of pedestrian travel and to be a minimum of 1500 wide.
7. For marked foot crossings (shared pedestrian/bicycle crossing) sloping face of ramp should be as wide as the inside of the paint lines with a push button on it at a practical width no less than 1500.
8. At marked foot crossings (pedestrian only crossings) the sloping face of the ramp should be as wide as the inside of the paint lines. Where this is not possible, locate the ramp close to post with a push button on it, at a practical width no less than 1500.
9. Expansion joints to be provided where ends of kerb ramp abuts kerb and gutter.
10. All dimensions in millimetres unless otherwise stated.



PLAN KERB RAMP



SECTION AT LAYBACK KERB

NOT TO SCALE

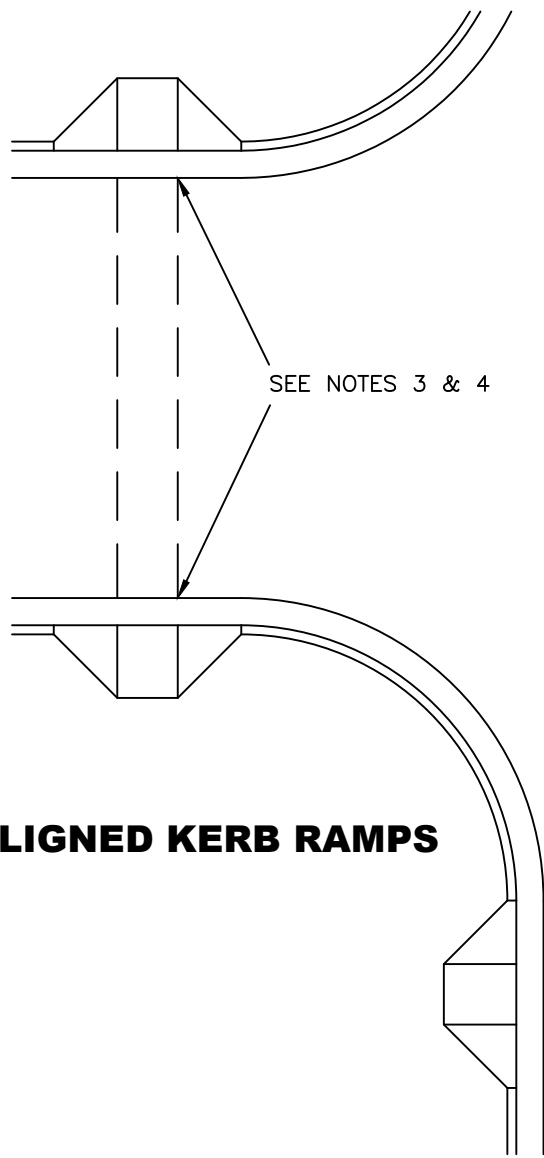
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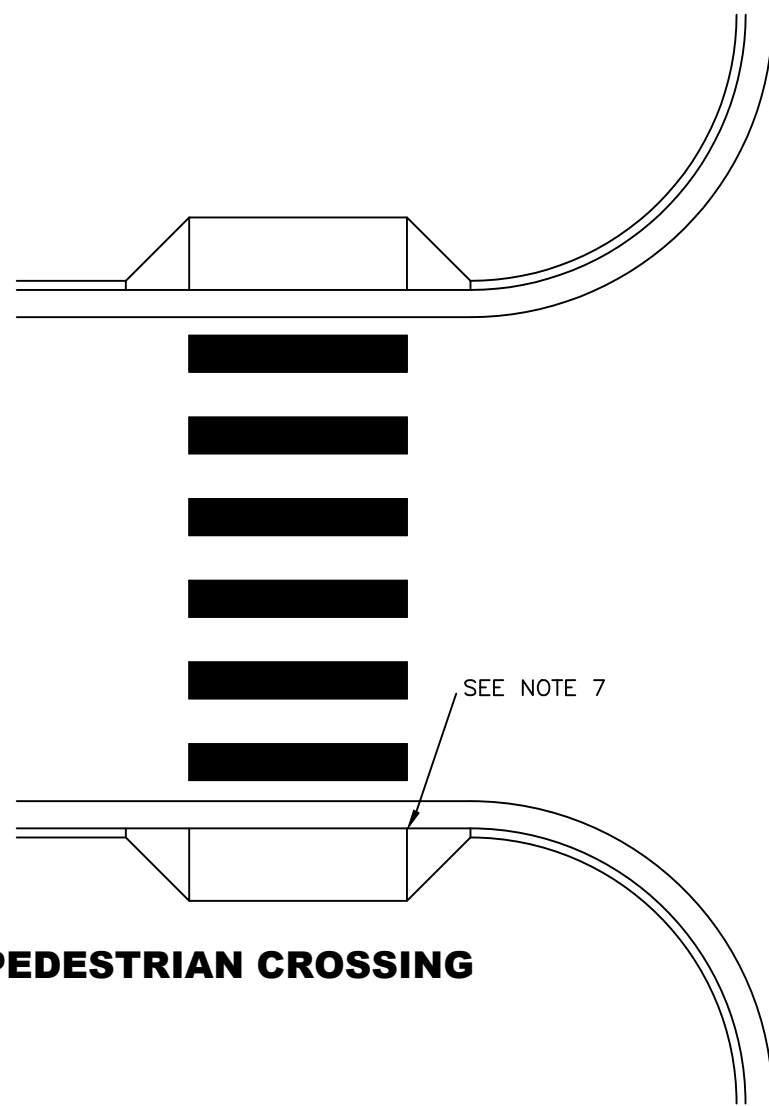
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STANDARD PEDESTRIAN KERB RAMP

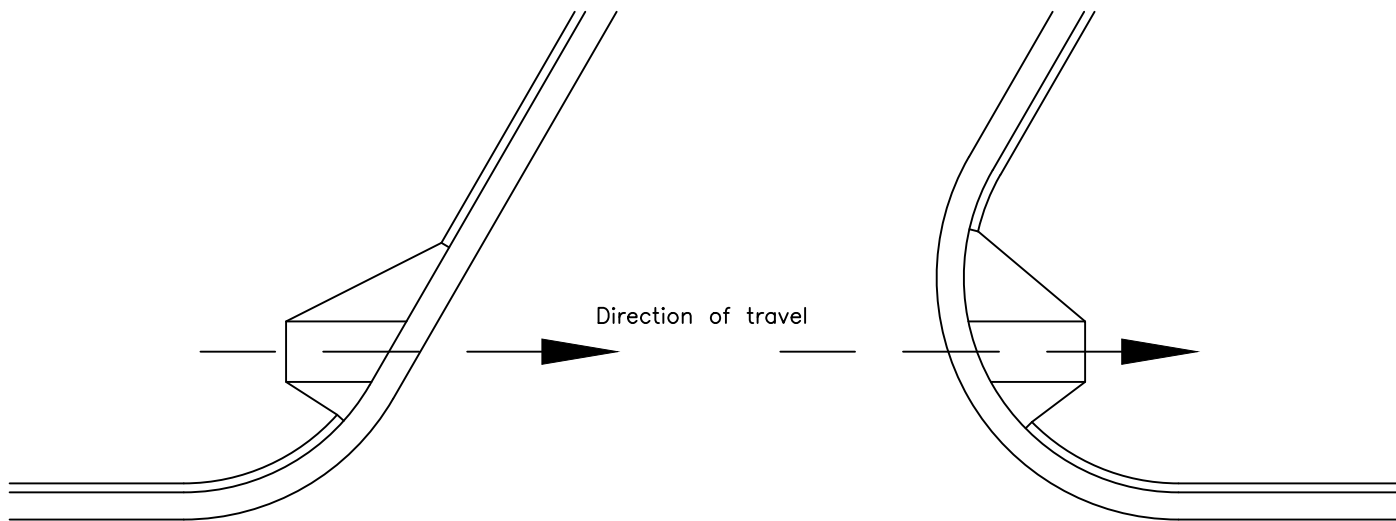
SD-RD-006



ALIGNED KERB RAMPS



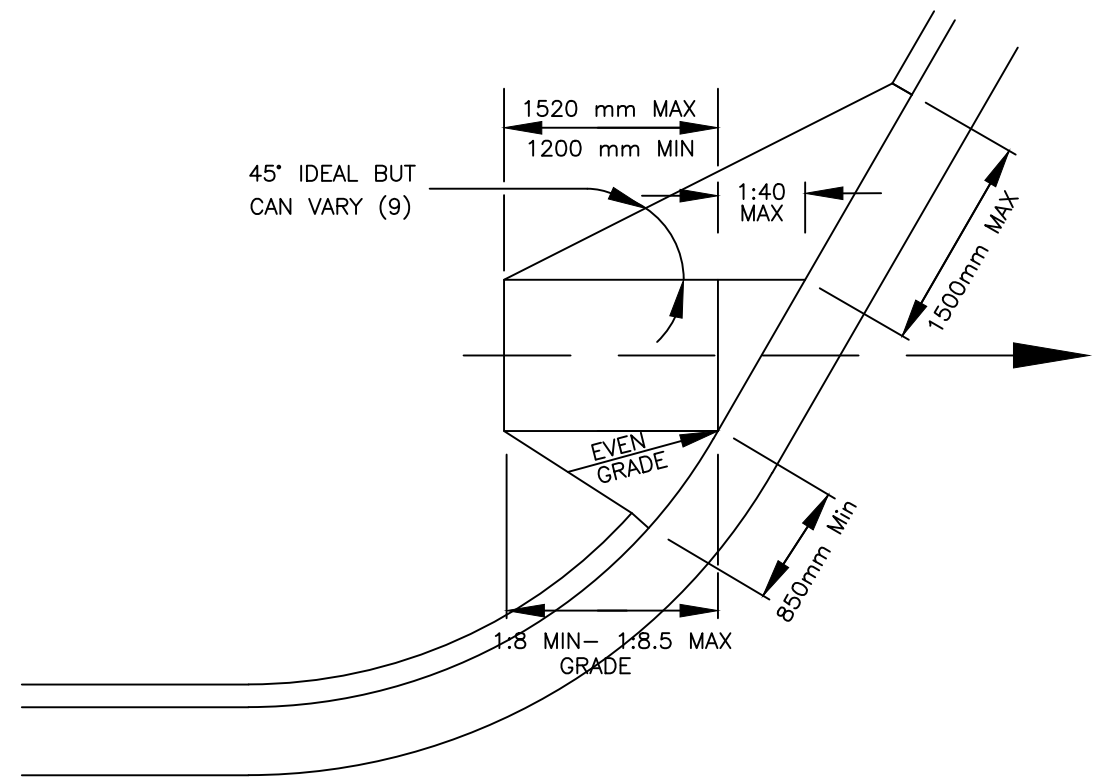
PEDESTRIAN CROSSING



KERB RAMPS FOR ACUTE / OBTUSE INTERSECTION

NOTES:


1. Construction shall be in accordance with Aus-Spec Aus-Spec 0319 - Auxiliary concrete works.
2. All kerb ramps are to be aligned with the desired direction of pedestrian travel and to be a minimum of 1500 wide.
3. At pedestrian crossings and marked foot crossings, ramps shall line up with crossing and corresponding crossing on other side of road.
4. For marked foot crossings (shared pedestrian/bicycle crossing) sloping face of ramp should be as wide as the inside of the paint lines with a push button on it at a practical width no less than 1500.
5. At pedestrian crossings (zebra) the sloping face of the ramp should be as wide as the outside edge of the zebra strips. Where this is not possible, the ramp should be at a practical width no less than 1500 wide
6. Separate kerb ramp must be used for adjacent crossings at intersections.
7. Refer to AS1428.4 for alignment of kerb ramps at intersections.
8. Gutter longitudinal grade $\geq 1\%$
9. 17° minimum.
10. All non-standard kerb ramp variations shall be submitted to Council for approval prior to construction.



KERB RAMPS FOR OBTUSE INTERSECTION

NOT TO SCALE

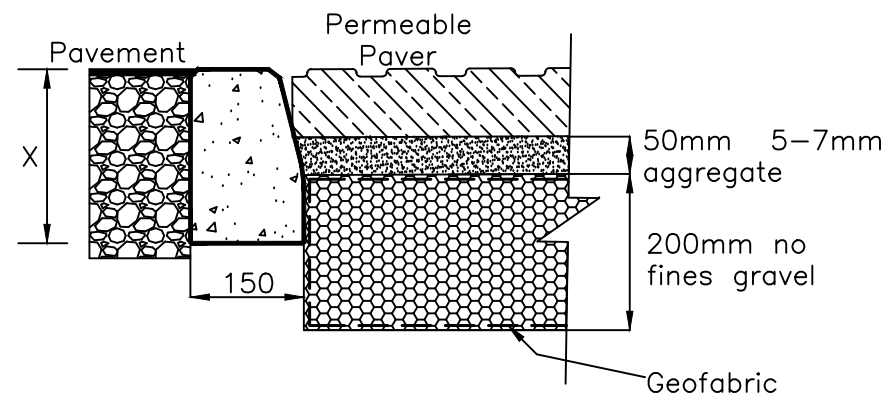
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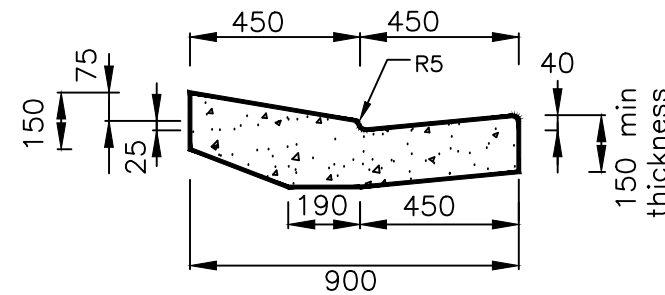
KERB RAMP ALIGNMENTS

SD-RD-007

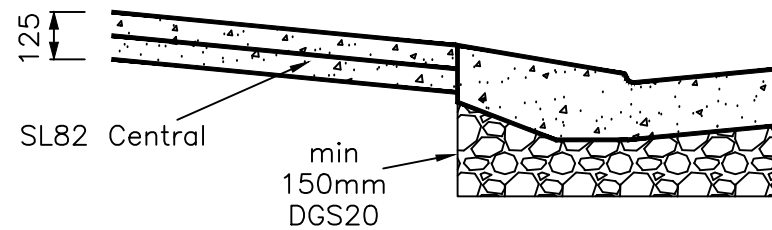


$$X = \frac{2}{3} (\text{Paver} + 50 + 200)$$

PERMEABLE PAVER AND PAVEMENT WITH SM KERB INTERFACE



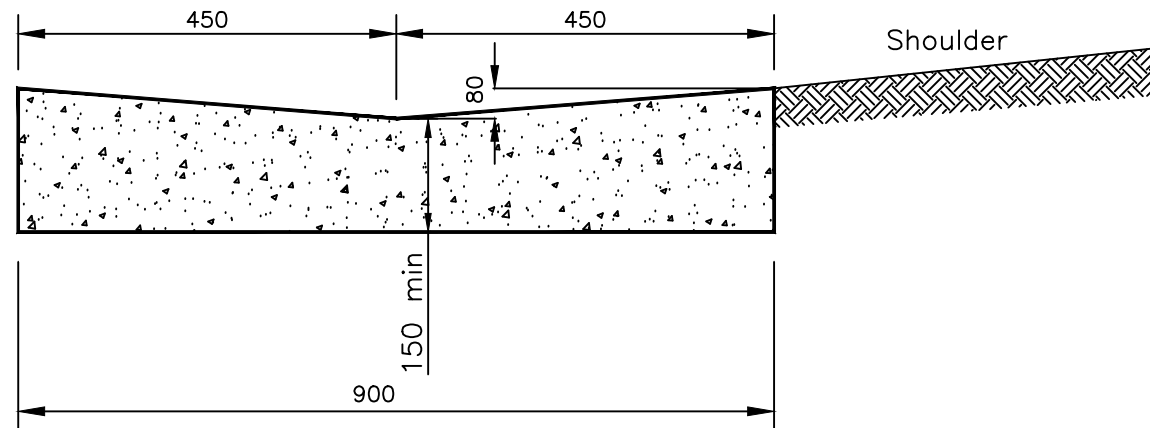
STANDARD VEHICLE CROSSING SECTION



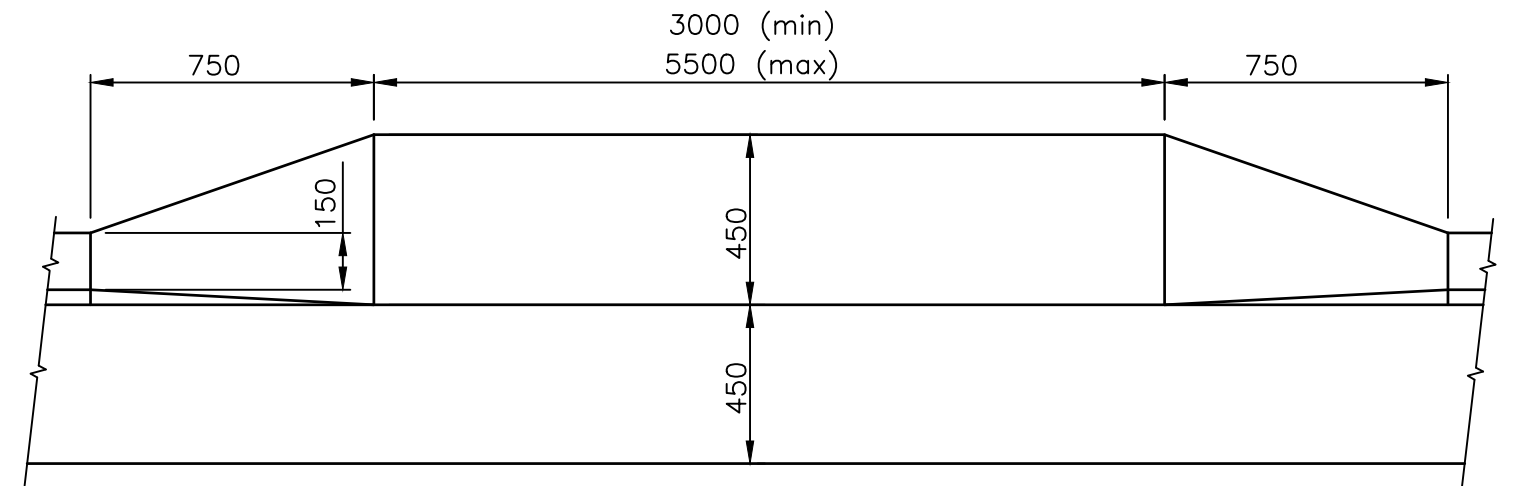
STANDARD VEHICLE CROSSING SECTION AND FOOTPATH SLAB

NOTES:

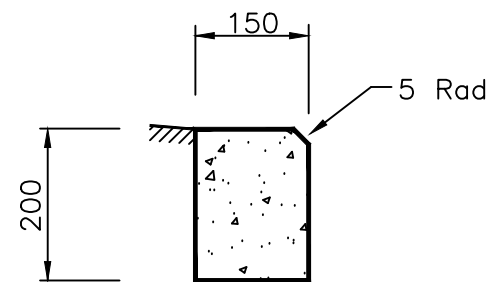
1. Kerbs and dish drain kerbs shall be constructed in accordance with Aus-Spec Aus-Spec 1121 - Open Drains.
2. Concrete strength to be N32 at 28 days
3. Extend base behind back of kerb a minimum of 300mm with a minimum 150mm of base course material below base of kerb compacted to min 98% standard dry density
4. Backfill behind kerb to full height of kerb
5. All dimensions in millimetres unless otherwise stated
6. Fibrecrete may be used subject to approval of Council. All fibrecrete shall be as recommended by the fibre manufacturer for a loading of a 10- tonne truck as a minimum. Minimum Portland cement content of 250kg/m³ and maximum flyash content of 70kg/m³.



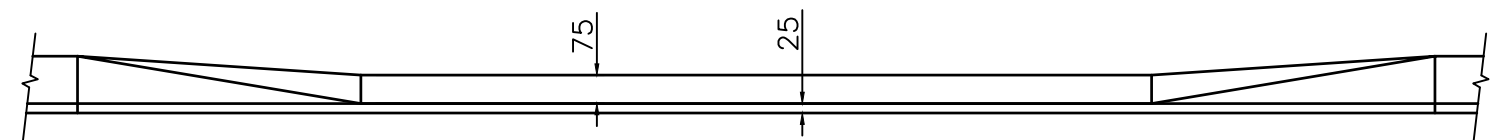
TYPE "SC KERB" STANDARD DISHDRAIN KERB



STANDARD VEHICLE CROSSING PLAN



STANDARD EDGE STRIP



STANDARD VEHICLE CROSSING ELEVATION

NOT TO SCALE

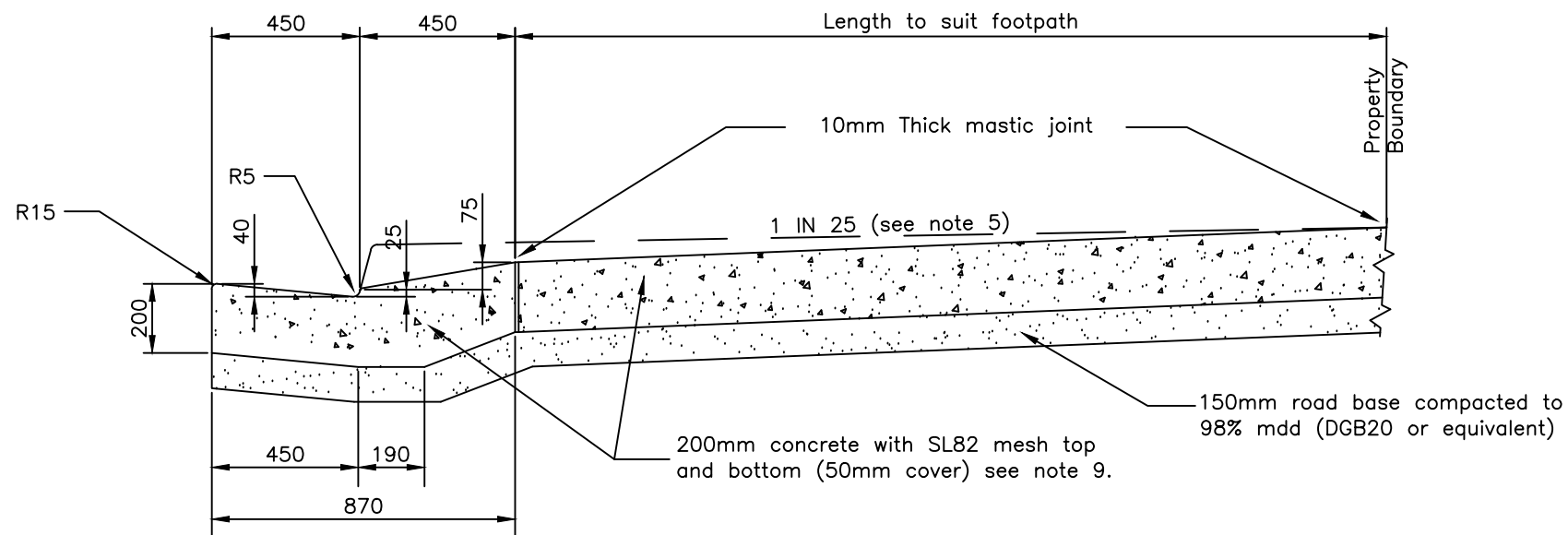
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VEHICLE CROSSING - RESIDENTIAL

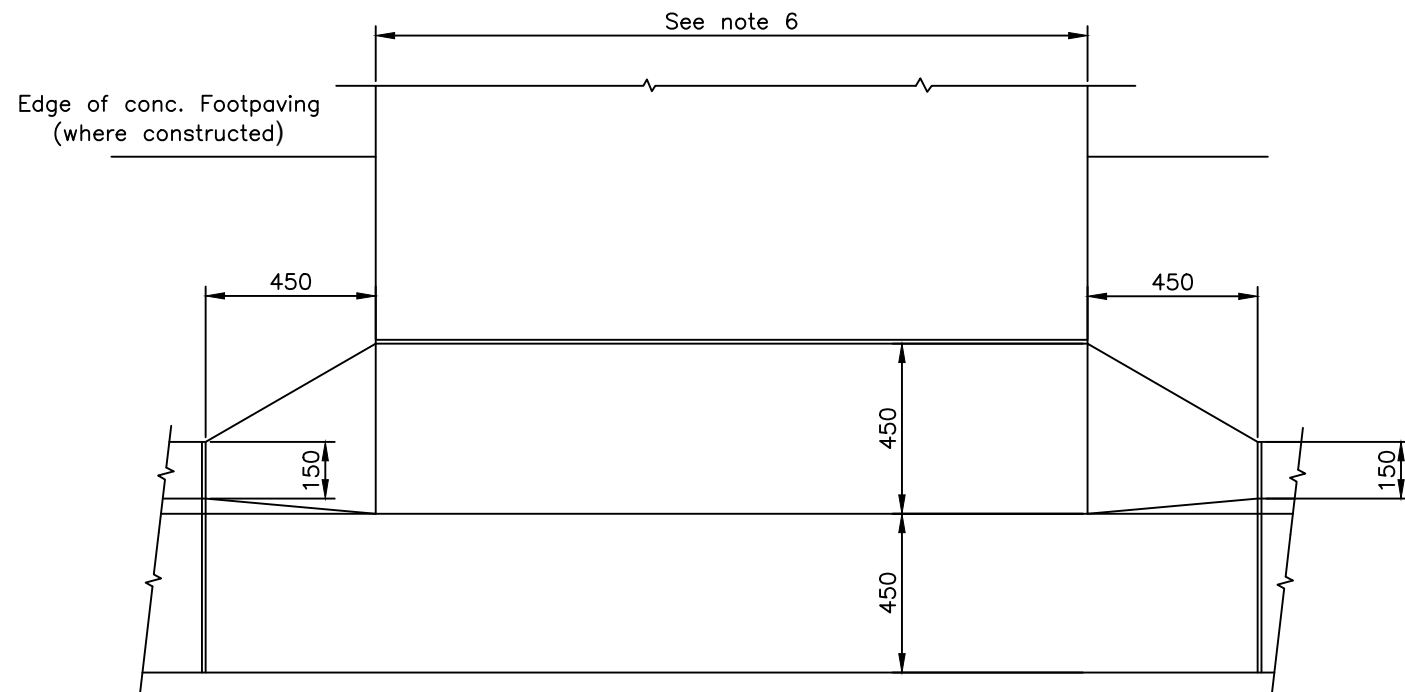
SD-RD-008



CROSS SECTION

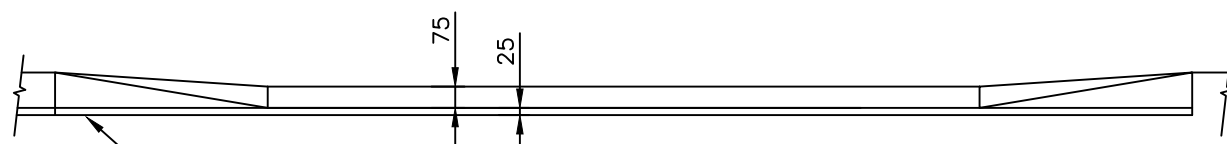
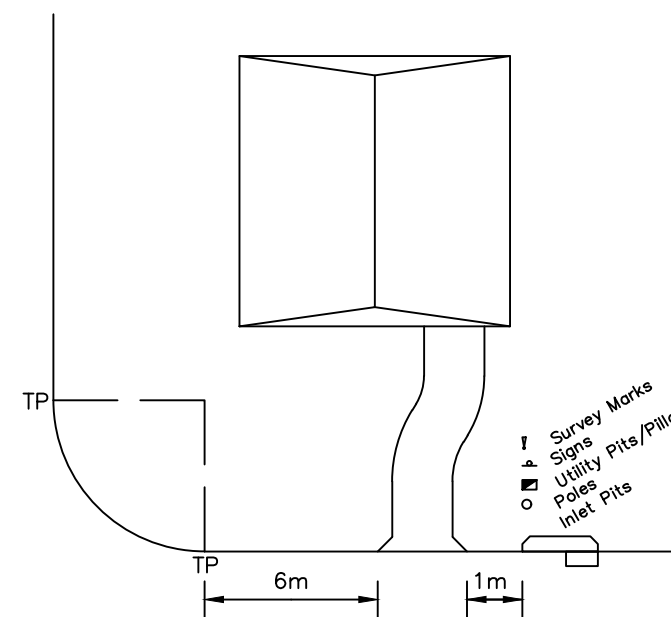
NOTES:

1. All dimensions in millimetres unless otherwise stated
2. Concrete strength to be N32 at 28 Days.
3. All edges to be shaped with an edging tool
4. Joints to be placed at 4.0m to 6.0m centres
5. Variations to footpath crossfall to be approved by Council prior to construction
6. Width of crossing as approved by Council to suit turning movement
7. Provision for services under slab to be investigated prior to construction
8. Provide expansion joints at connections to kerbs and ramps
9. Fibrecrete may be used subject to approval of Council. All fibrecrete shall be as recommended by the fibre manufacturer for a loading of a 42.5-tonne truck as a minimum. Minimum portland cement content of 250kg/m³ and maximum flyash content of 70kg/m³



STANDARD INDUSTRIAL VEHICULAR CROSSING PLAN

Driveways minimum of 6m from tangent point of street curve (corner sites)




FRONT VIEW

Invert of kerb & gutter

NOT TO SCALE

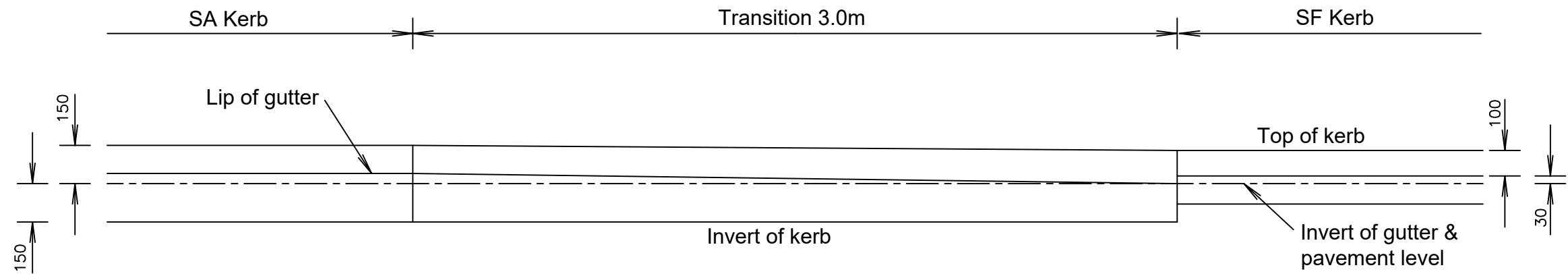
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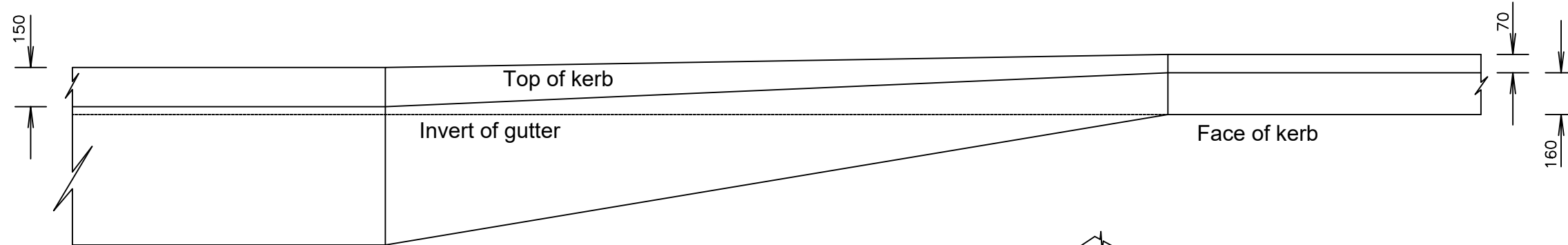
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VEHICLE CROSSING - HEAVY DUTY

SD-RD-009



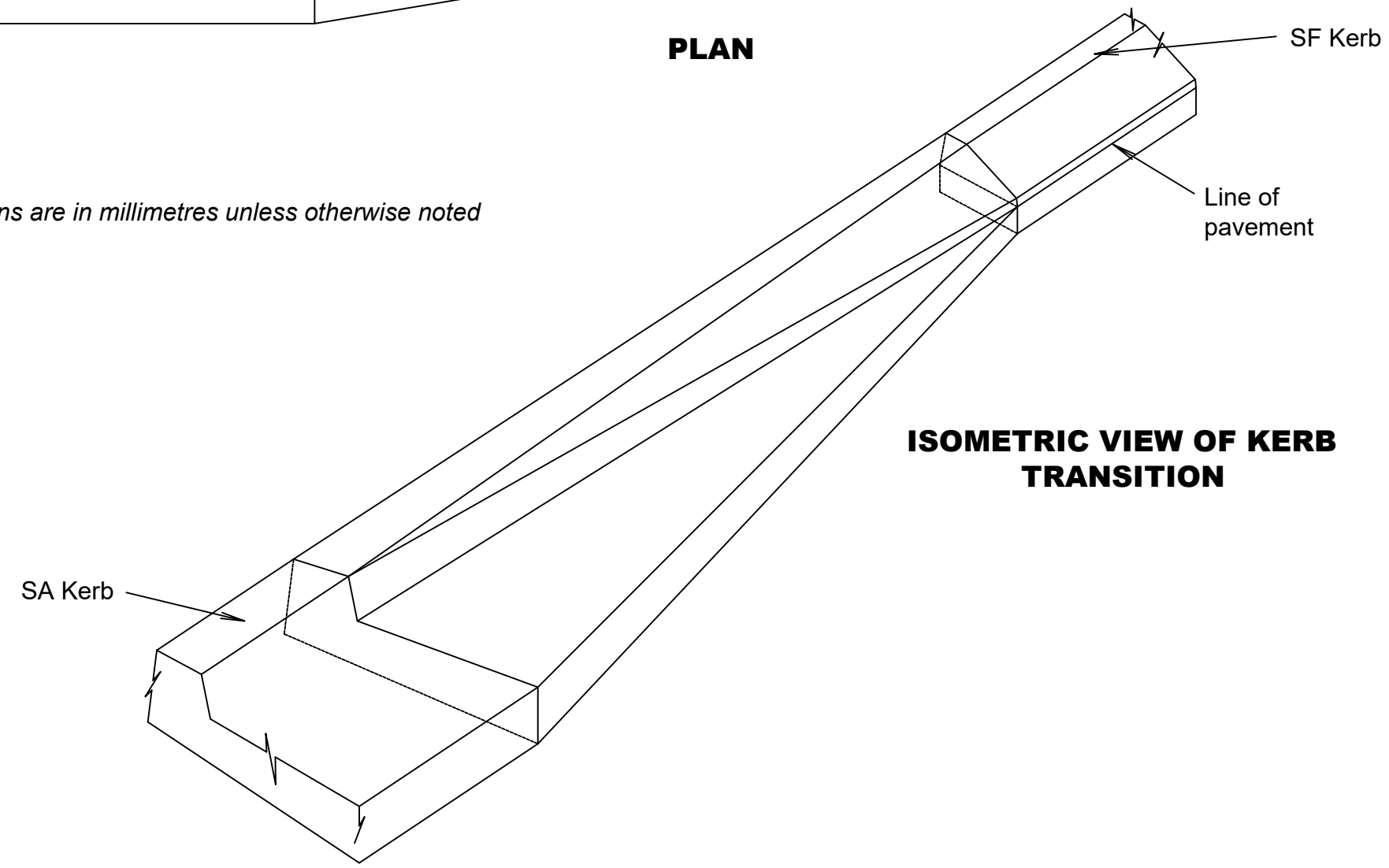
ELEVATION



PLAN

NOTES:

- 1. All dimensions are in millimetres unless otherwise noted



ISOMETRIC VIEW OF KERB TRANSITION

NOT TO SCALE

REV.	DATE	REVISION
1	JAN 2024	INITIAL ISSUE - CCC DRAWING SET
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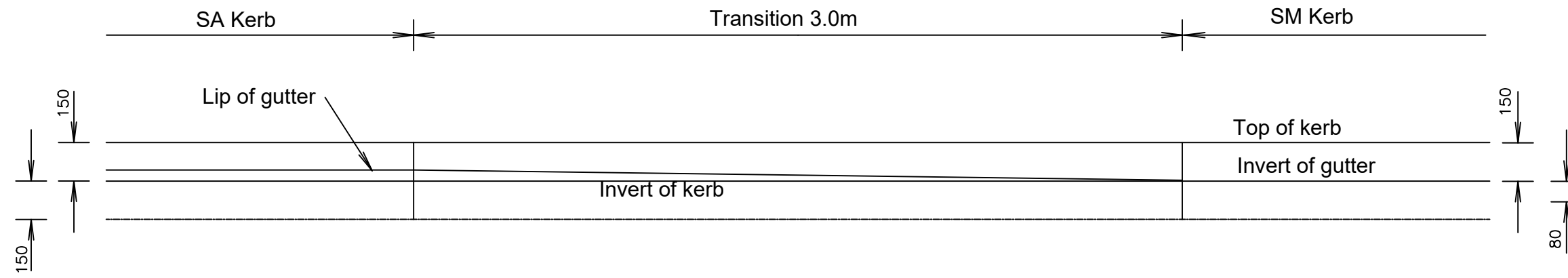

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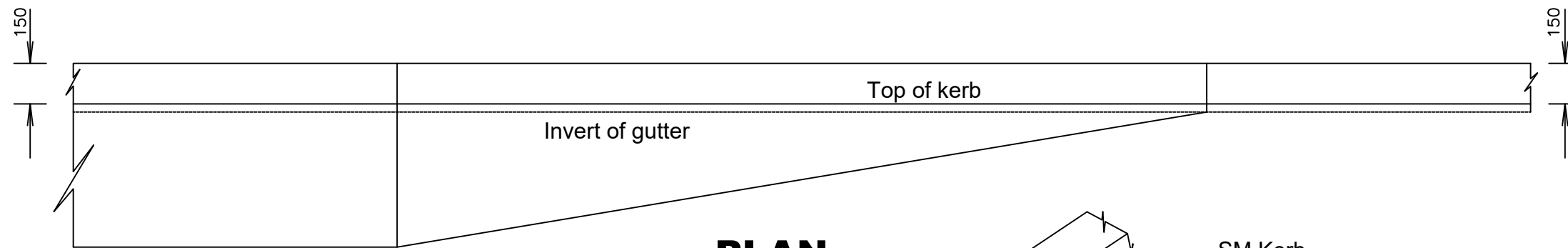
**KERB TRANSITION -
TYPE SA KERB TO TYPE SF KERB**

SD-RD-010

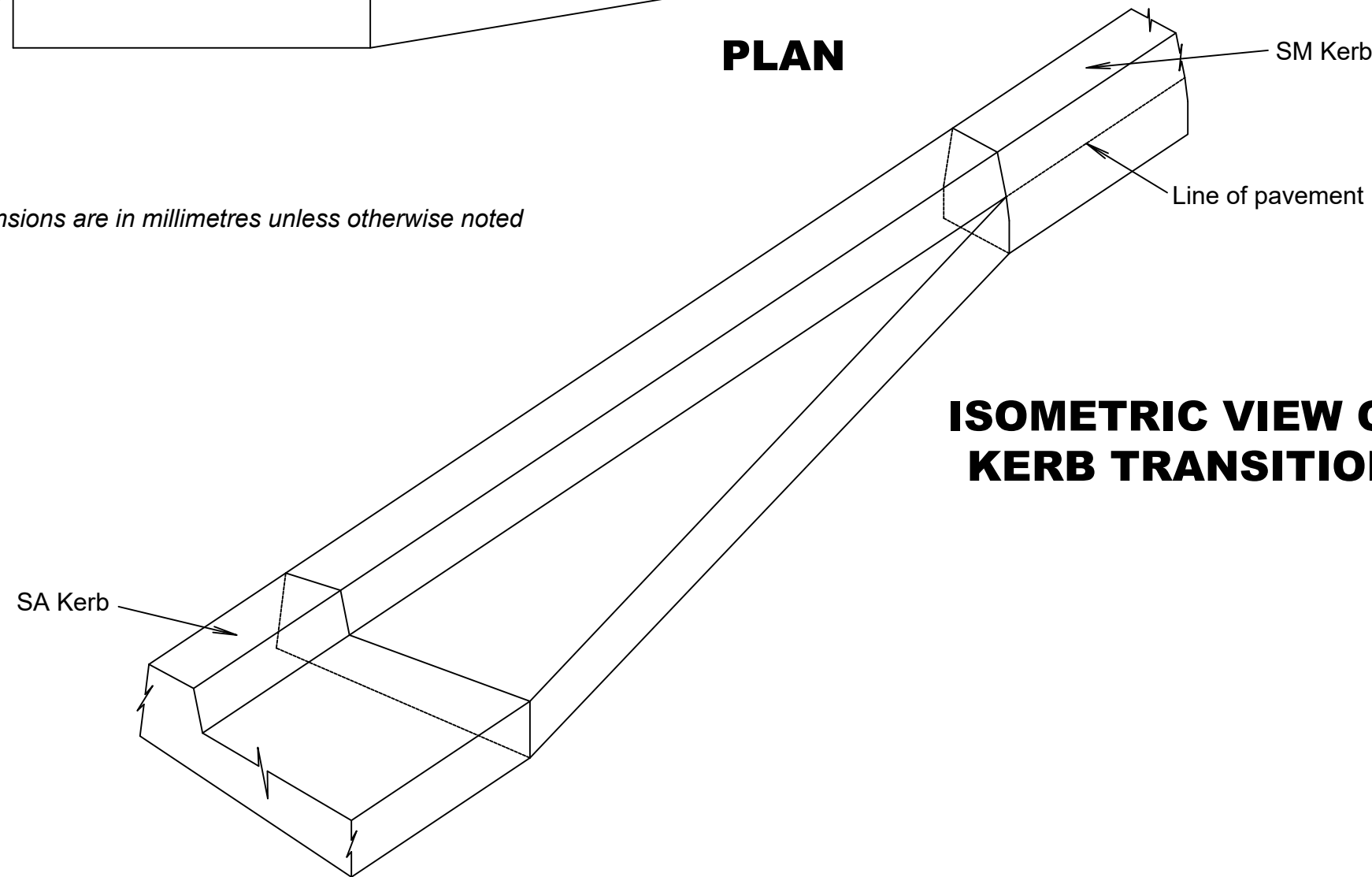
1	REV.
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ELEVATION



PLAN



ISOMETRIC VIEW OF KERB TRANSITION

NOTES:

1. All dimensions are in millimetres unless otherwise noted

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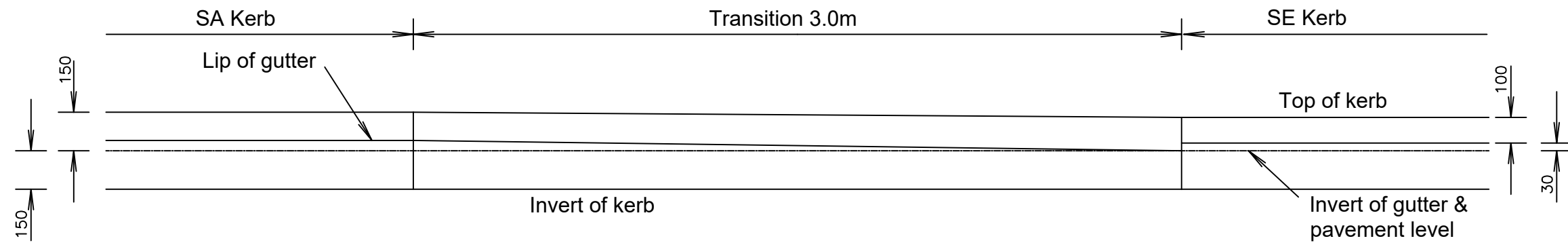

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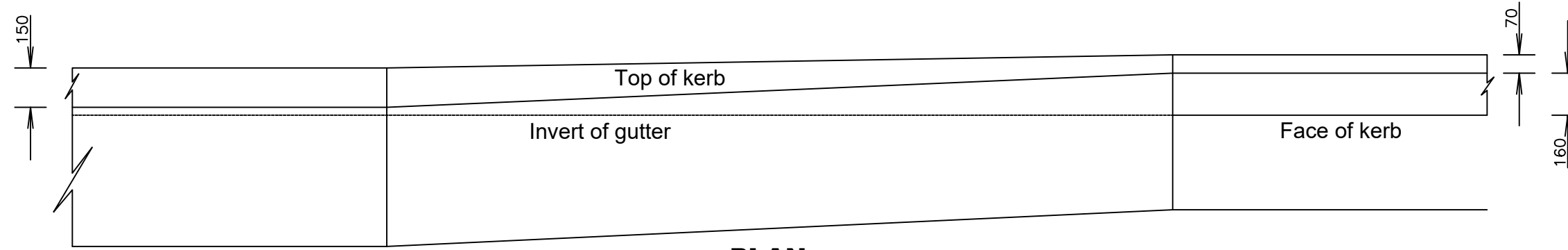
**KERB TRANSITION -
TYPE SA KERB TO TYPE SM KERB**

SD-RD-011

1
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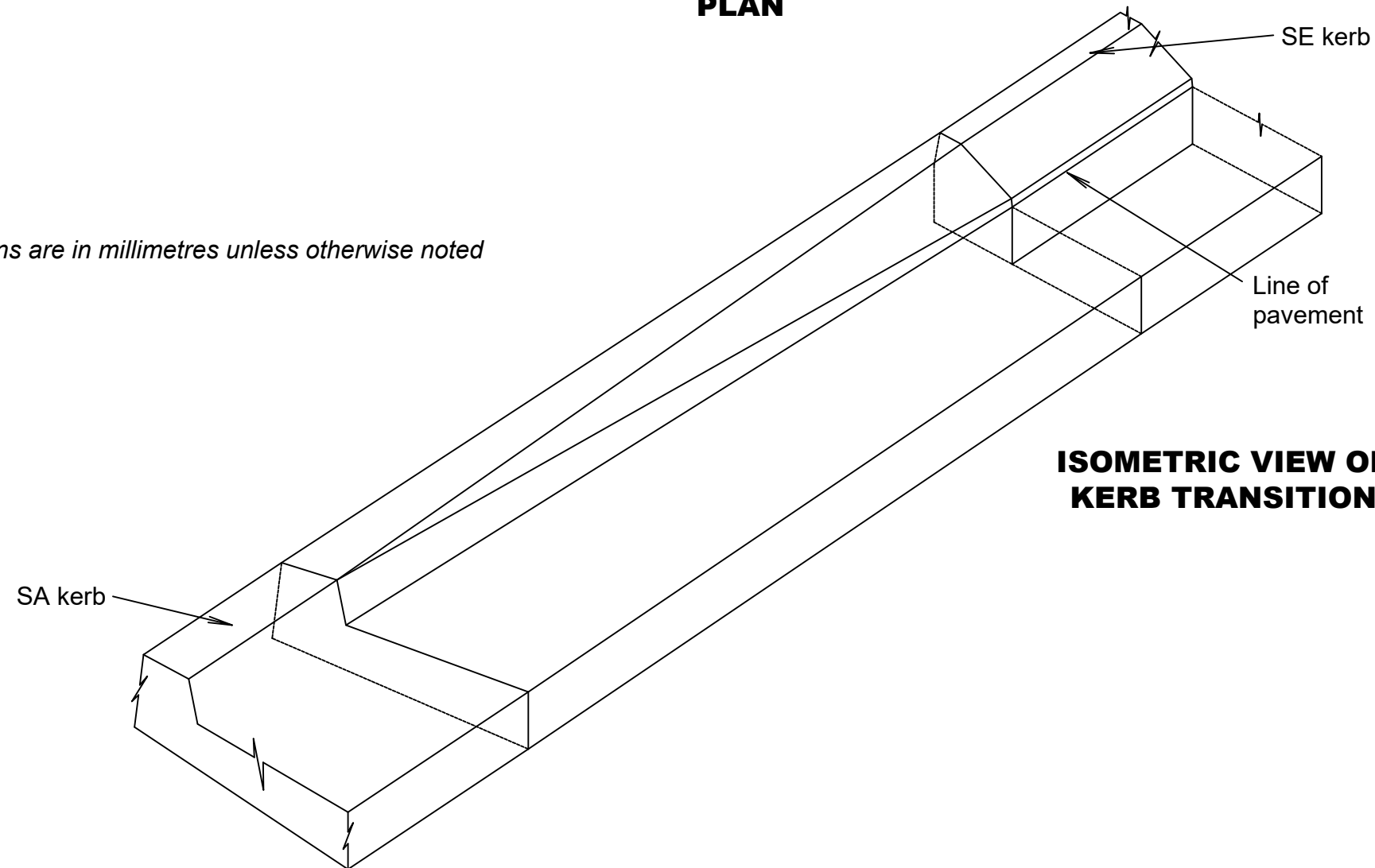
ELEVATION



PLAN

NOTES:


1. All dimensions are in millimetres unless otherwise noted



ISOMETRIC VIEW OF KERB TRANSITION

NOT TO SCALE

REV.	DATE	REVISION
1	JAN 2024	INITIAL ISSUE- CCC DRAWING SET
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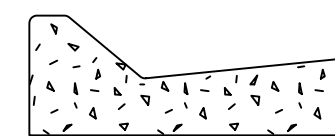
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**KERB TRANSITION -
TYPE SA KERB TO TYPE SE KERB**

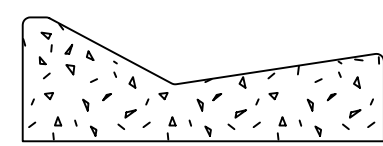
SD-RD-012



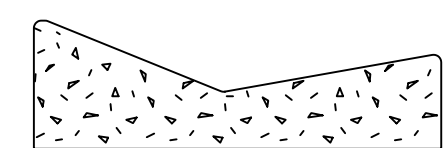
SECTION 5



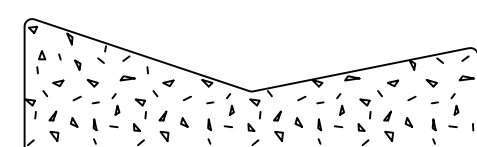
SECTION 4



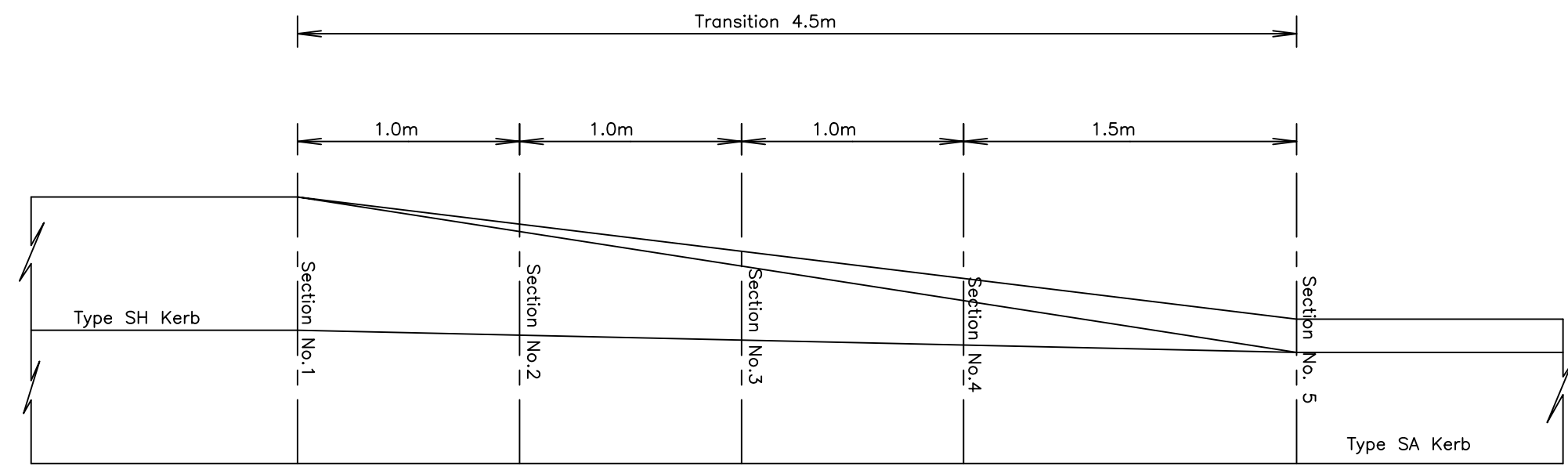
SECTION 3



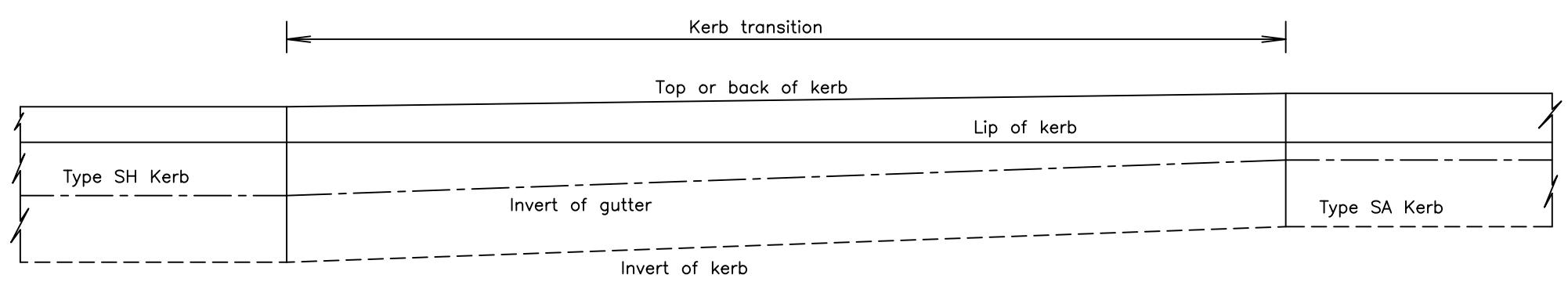
SECTION 2



SECTION 1



PLAN




ELEVATION

This plan has been adopted from the plan produced by the Transport for NSW, issued in 2017. Drawing Number R0300-09. REFER TO CURRENT EQUIVALENT EDITION BEFORE USE.

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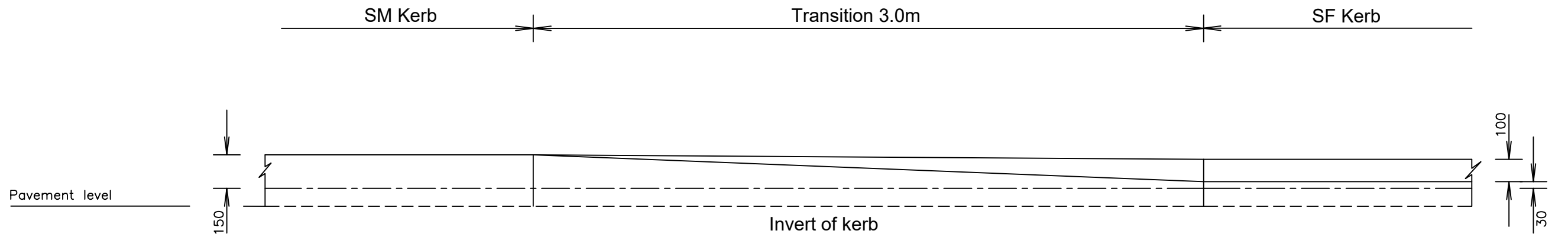
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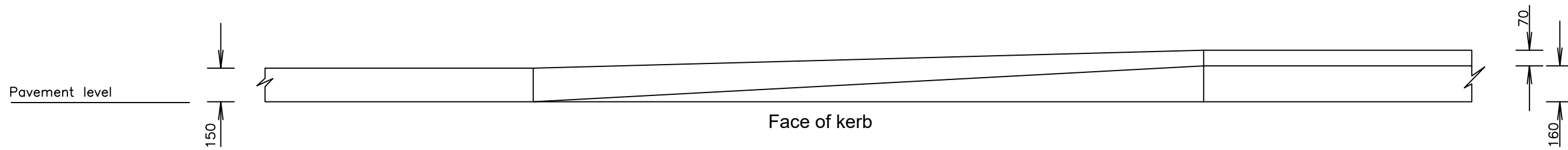
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**KERB TRANSITION -
TYPE SH DRAIN TO TYPE SA KERB**

SD-RD-013



ELEVATION

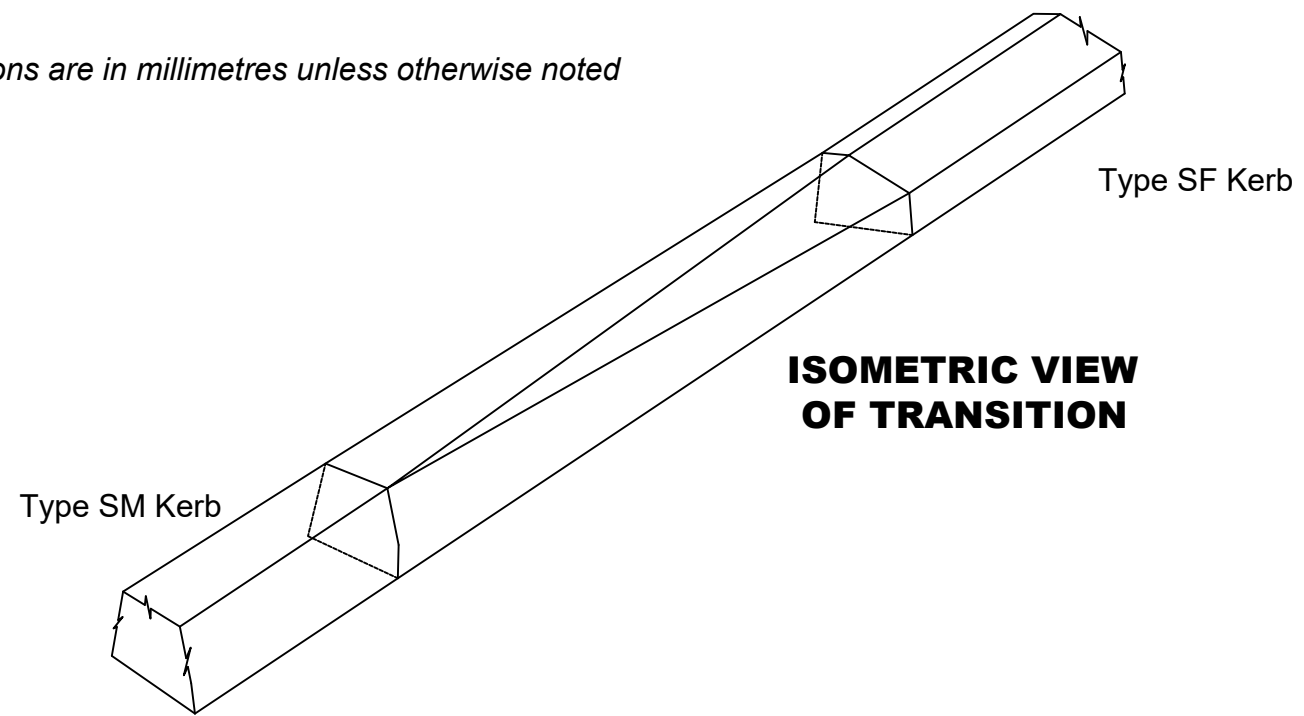


PLAN

NOTES:

1. All dimensions are in millimetres unless otherwise noted

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ISOMETRIC VIEW OF TRANSITION

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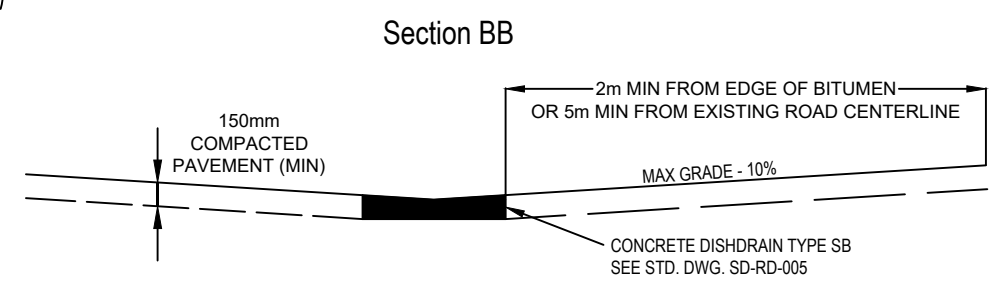
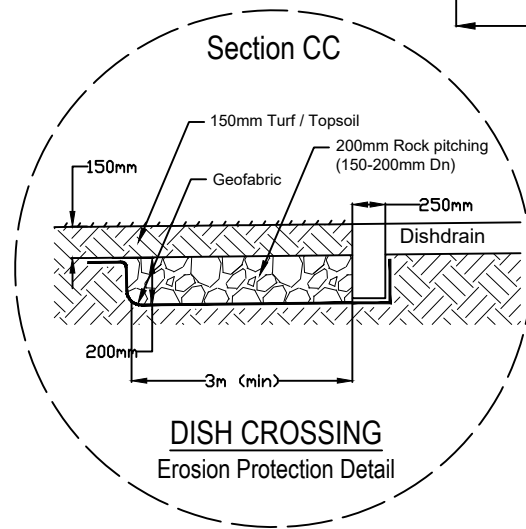
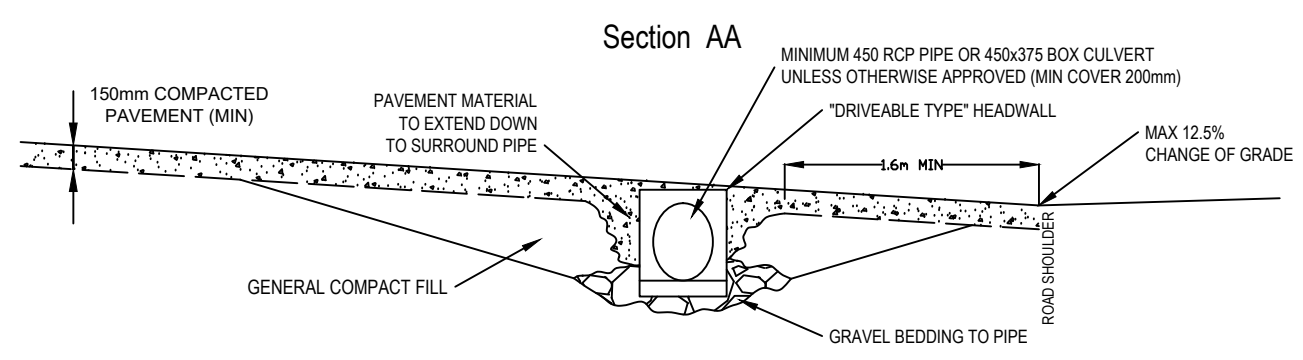
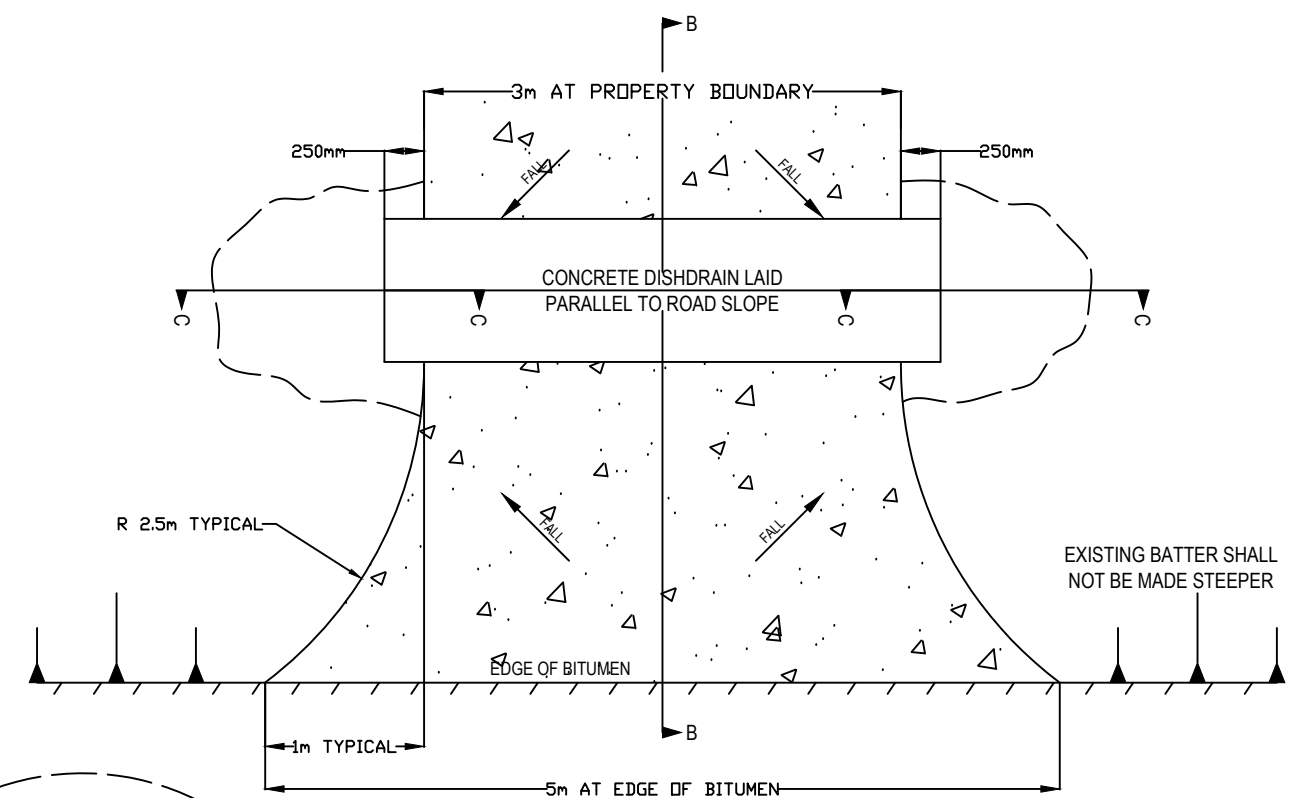
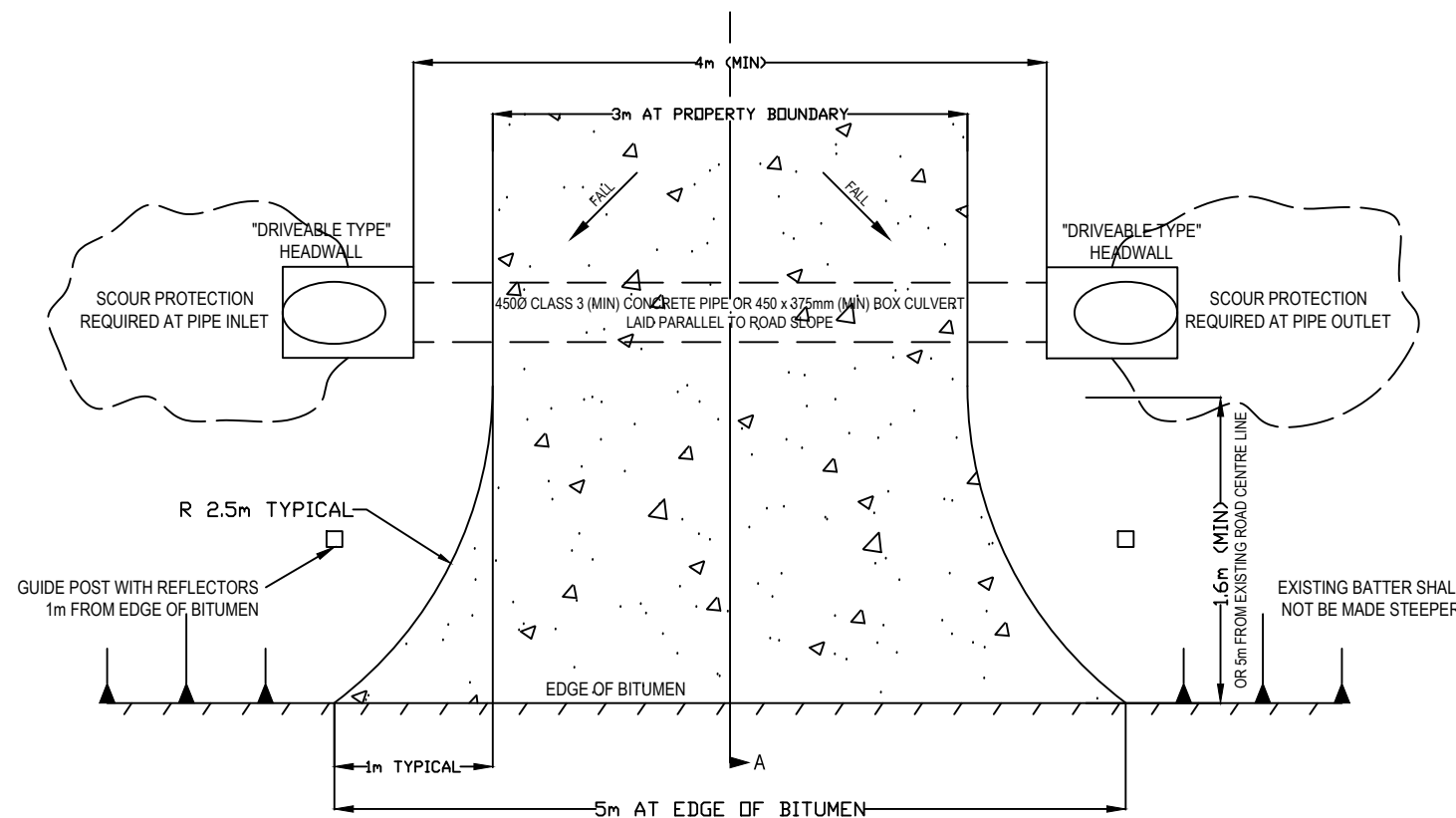

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**KERB TRANSITION -
TYPE SM DRAIN TO TYPE SF KERB**

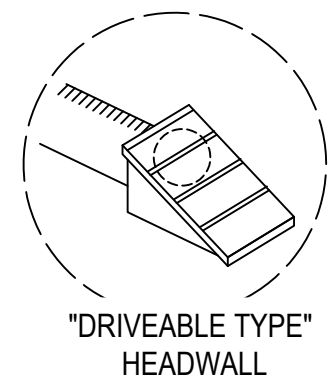
SD-RD-014

1
REV.



PIPE / CULVERT CROSSING


DISH CROSSING (SB Dishdrain)



- NOTES:**
1. Maximum desirable longitudinal grade of 12%. Private access roads with longitudinal grade greater than 15% are to be sealed. Absolute maximum permissible grade is 25%.
 2. Where the existing road is sealed the driveway is to be sealed to a minimum 3m within the property boundary.
 3. For driveway change of grade greater than 12.5% provide 3.0m transition.
 4. Driveway profiles are to conform to the requirements of AS 2890.1 Parking Facilities - Off - Street Car Parking.
 5. All dimensions in millimetres unless otherwise noted.
 6. Where standard designs cannot be implemented, eg. due to natural surface levels, low points in the road, etc, alternative design should be submitted to Council for consideration. Particular attention shall be made to ensure properties which are below the road level do not create a stormwater overland flow path.
 7. Provide scour protection at pipe inlet & outlet.

NOT TO SCALE

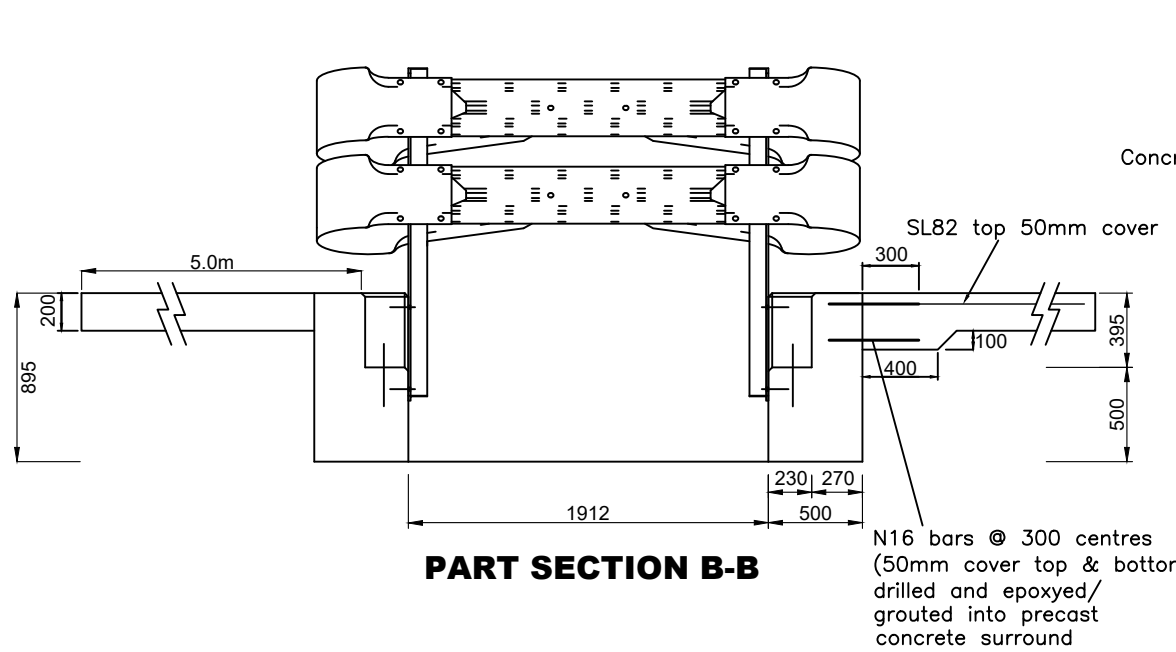
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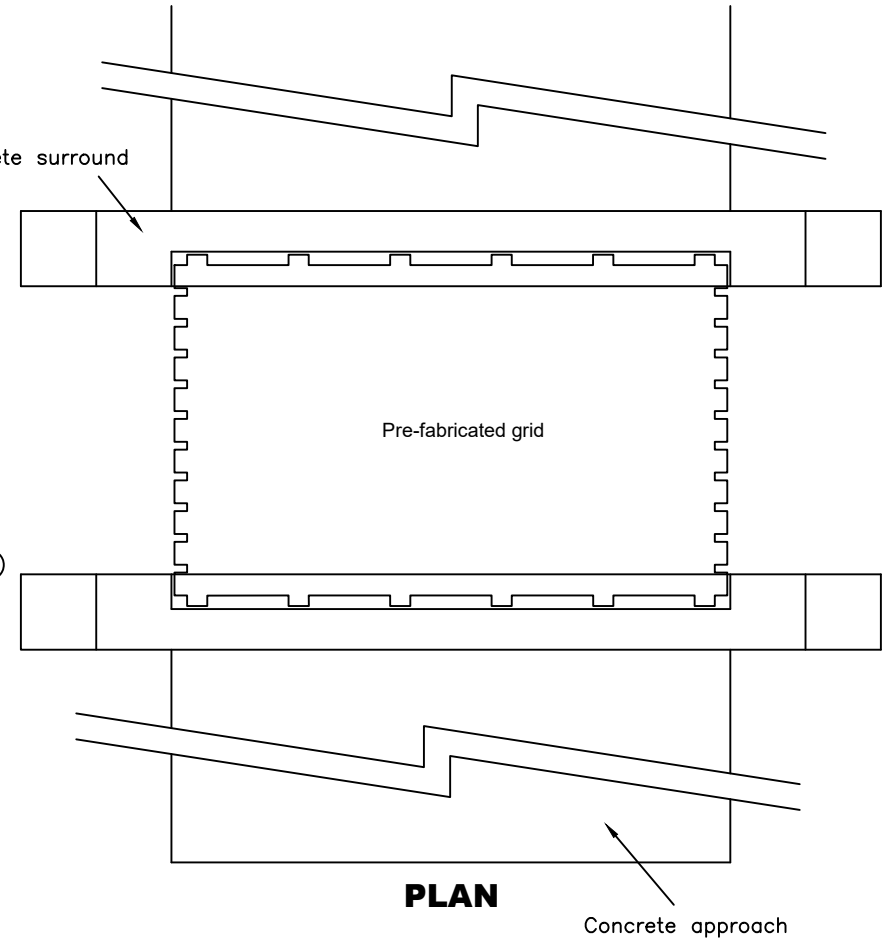
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RURAL DRIVEWAY

SD-RD-016



PART SECTION B-B



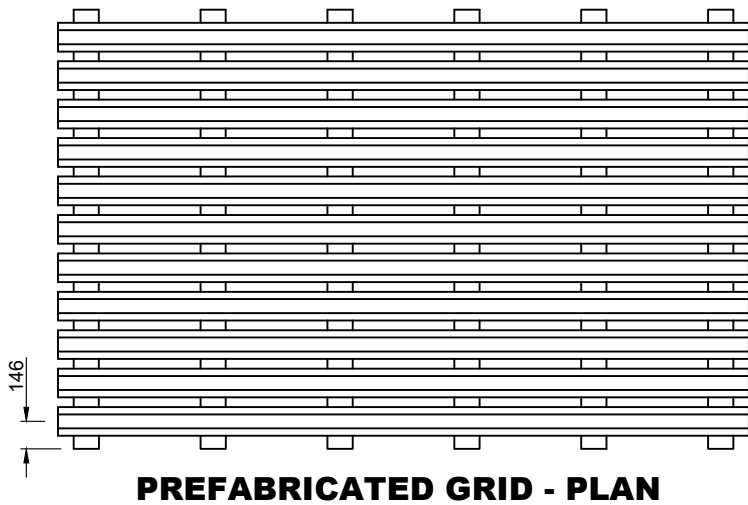
PLAN



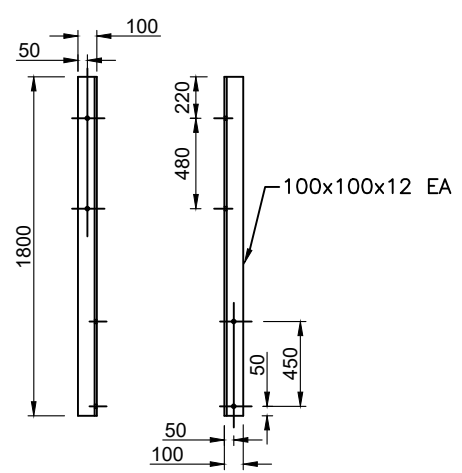
PART SECTION A-A

NOTES:

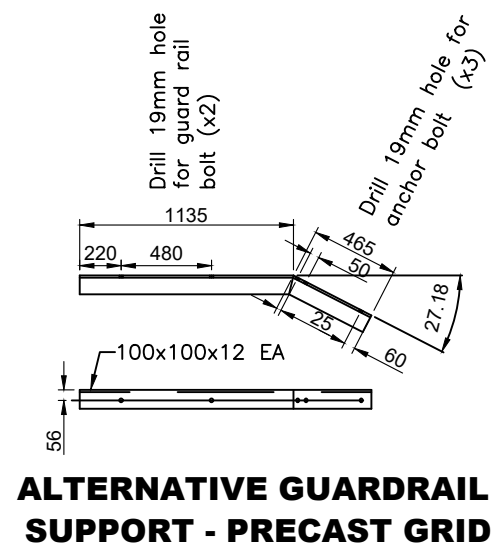
1. Public gates to be installed in accordance with the Roads Act 1993, Roads (General) Regulation 1994 or the current Act
2. RE68 rails to be fillet welded to 200UB29.8 grade 350 as shown
3. All guardrail supports to be hot dip galvanised Guard rails and buffer ends in accordance with RTA drawing MD.RI 32.C02.A or current equivalent drawing
4. Retro-reflective transfers G9-257 (L&R) shall be attached to all buffered ends
5. A 3.5m min width gate shall be provided adjacent to the grid. The grid shall be constructed centrally on the road
6. 'GRID' and 'ONE LANE' signs (W5-16A & W8-16A) shall be installed at the grid on the LHS of both approaches and 100m from the grid on both approaches with min 50m sight distance to the sign
7. Approved equivalent precast grids may be installed in lieu of the prefabricated grid detailed
8. Concrete shall be min. grade N25 in accordance with AS 3600, reinforcement to be SL82 mesh, with minimum cover of 50mm to top and edges. Reinforcing to be inspected and approved by Council's Supervisor prior to placement of concrete
9. Vehicular traffic is not allowed for seven (7) days and is to be cured by covering with polyethylene sheeting for seven (7) days
10. All Dimensions are in millimetres unless otherwise stated



PREFABRICATED GRID - PLAN

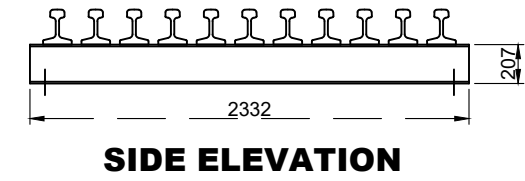


**DETAILS OF GUARDRAIL SUPPORT
4 Required
(2 LHS & 2 RHS)**



ALTERNATIVE GUARDRAIL SUPPORT - PRECAST GRID

NOTE: Holes drilled on same side of web on other end of UB



SIDE ELEVATION

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CATTLE GRID

SD-RD-017