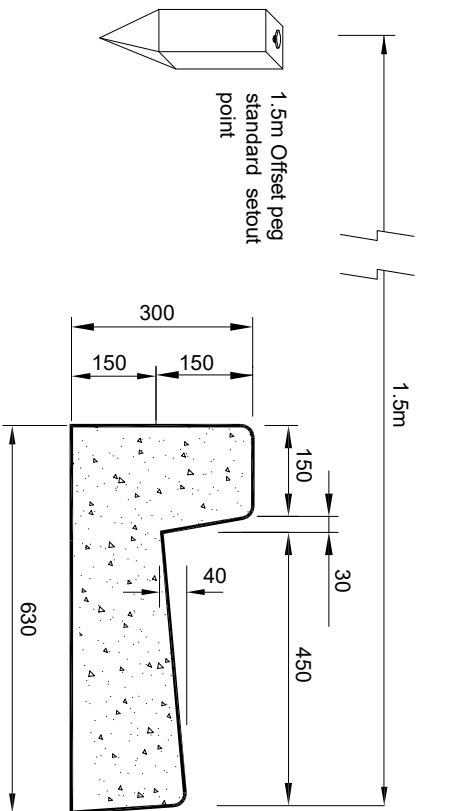
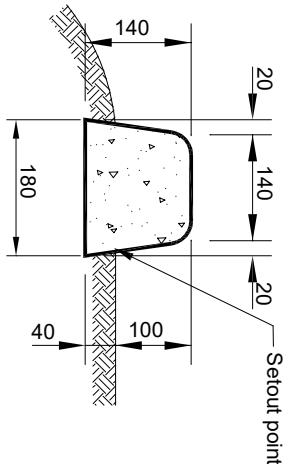
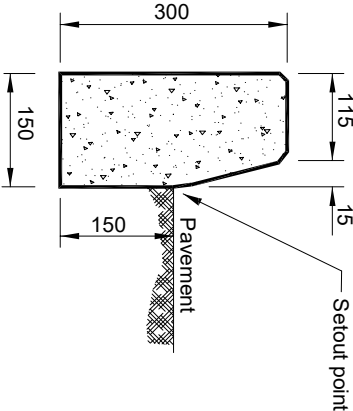




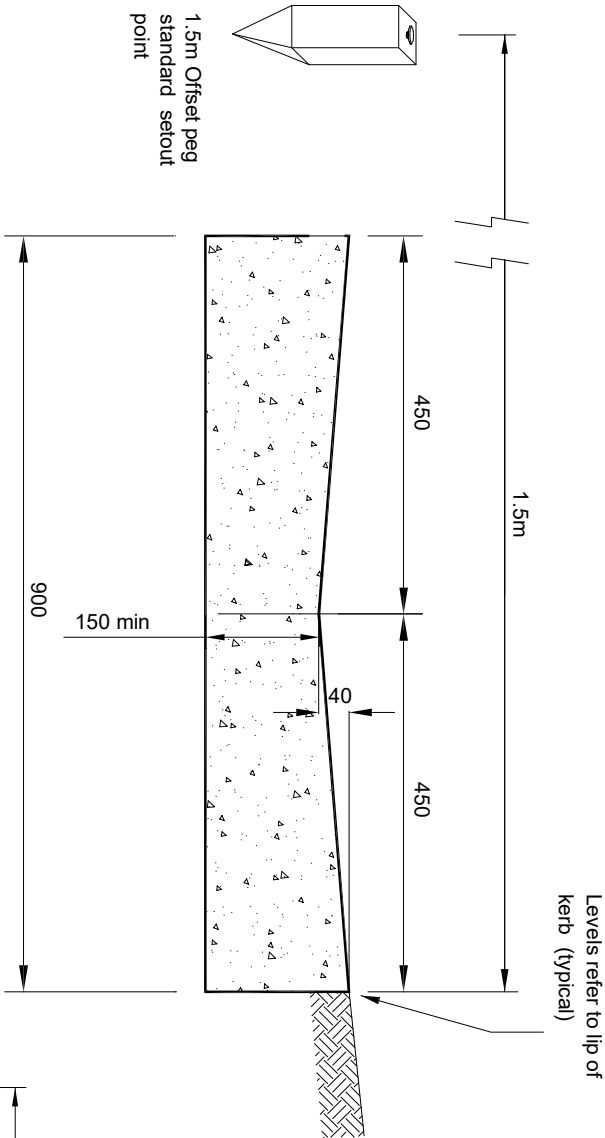
SA TYPE KERB & GUTTER



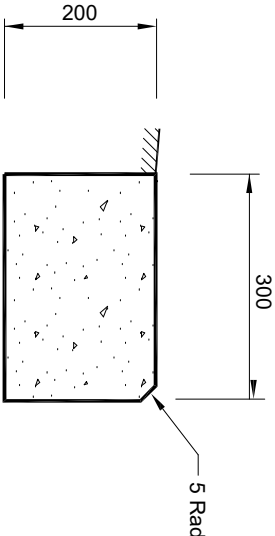
TYPE "SG KERB"
STANDARD GUARDFENCE KERB



TYPE "SM KERB"
KERB ONLY

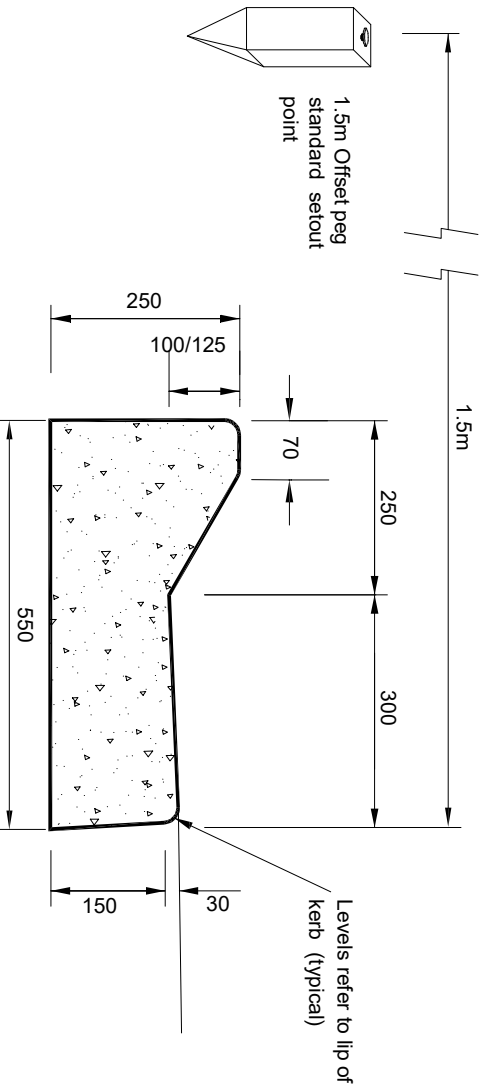
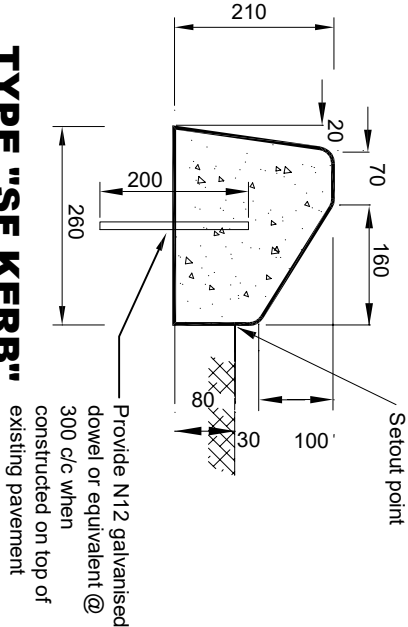


TYPE "SB KERB"
DISHDRAIN KERB



STANDARD
EDGE STRIP

TYPE "SF KERB"
MEDIAN KERB



TYPE "SE KERB"
STANDARD LAYBACK KERB & GUTTER

lip permitted at invert

NOTES:

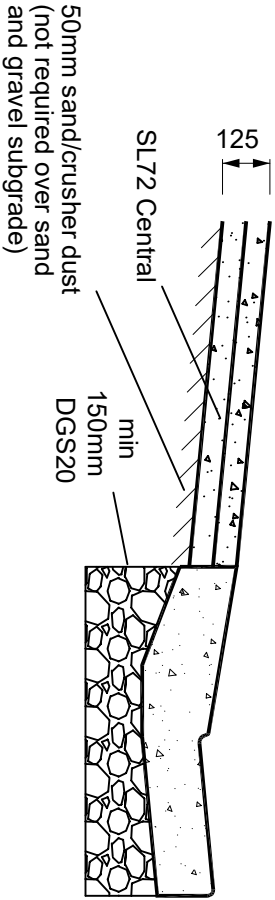
- Kerb and gutter and dish drain kerb shall be constructed in accordance with Aus-Spec # 1 C224 - Open Drains including Kerb & Gutter.
- Concrete strength to be N32 at 28 days
- Gravel thickness below kerb:
New Road Works: Road Sub-base to be extended under kerbs, gutters, aprons & dish drains
Kerb & 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
 - Setout 1.50m behind lip of kerb
 - Setout to radii less than 1m at centre points
 - Levels to lipDish Drains
 - Backfill behind kerb to full height of kerb.
 - Radius < 2.0m - CP & TP
 - Radius > 2.0m & < 5m - TP & mid point
 - Radius > 5m - TP & 3m segmentsAll dimensions in millimetres unless otherwise stated
No fines concrete may be used as subbase under kerb, however must be adequately drained to a suitable system.

REVISION	DESCRIPTION	INITIAL	DATE
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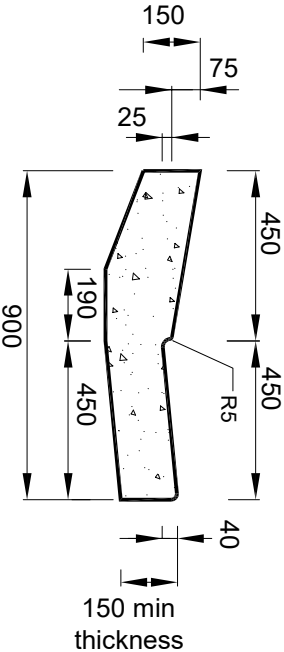


KSC STANDARD DRAWING
STANDARD KERB PROFILES AND SETOUT

NOT TO SCALE

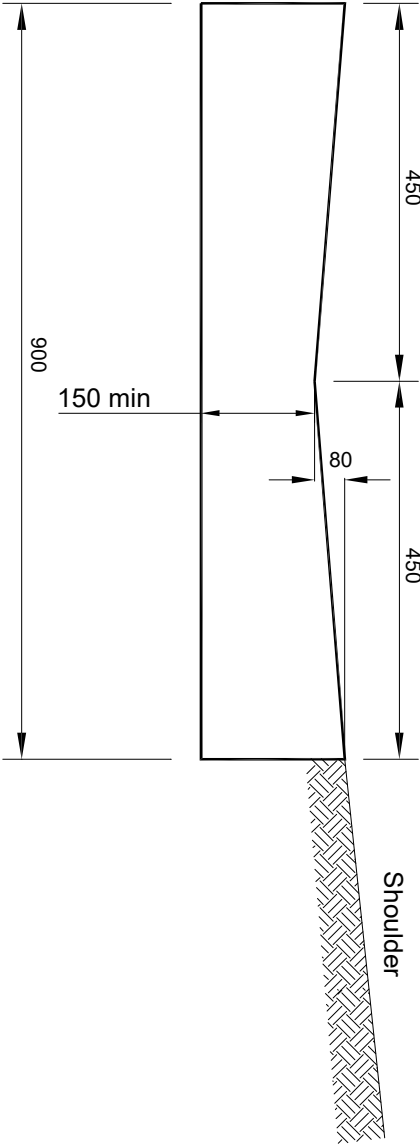


STANDARD VEHICLE CROSSING SECTION AND FOOTPATH SLAB



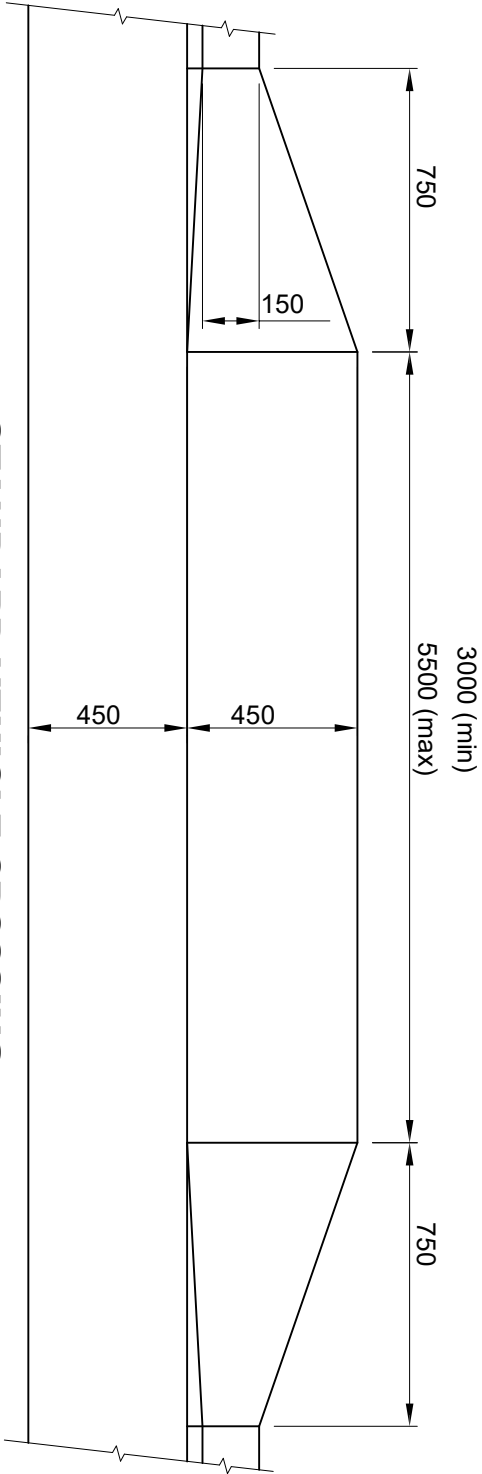
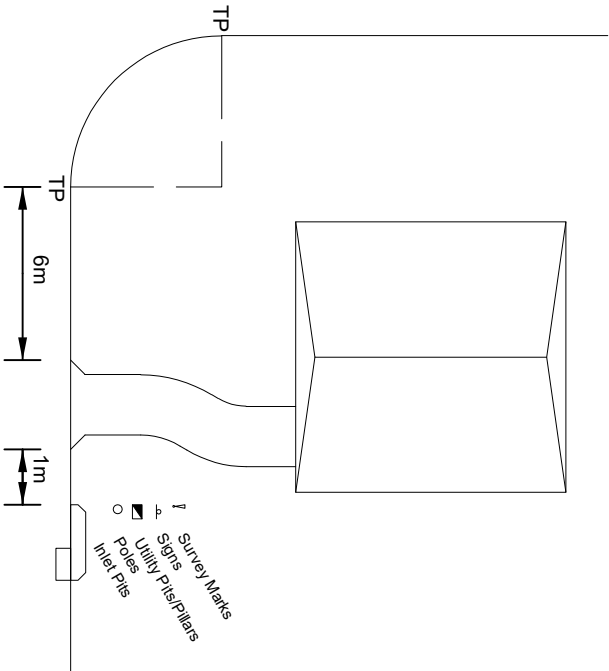
STANDARD VEHICLE CROSSING SECTION

- NOTES:**
1. Kerbs and dish drain kerbs shall be constructed in accordance with Aus-Spec #2 Section C224
 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.
 7. Any pavement work or sealing required between the layback and the existing edge of seal is the responsibility of the applicant and must be carried out in accordance with Auspec requirements.



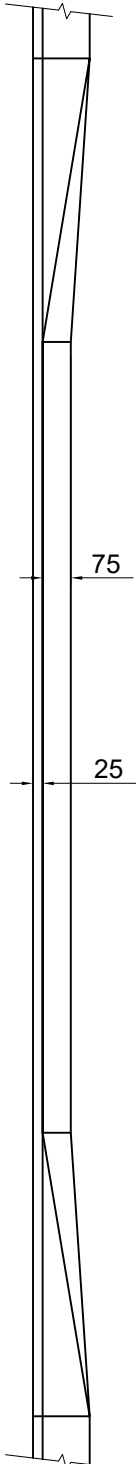
TYPE "SC KERB" STANDARD DISHDRAIN KERB

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



STANDARD VEHICLE CROSSING PLAN

STANDARD VEHICLE CROSSING ELEVATION

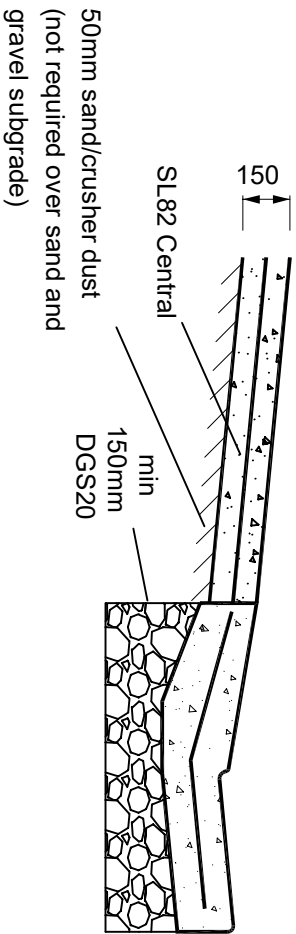


REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx

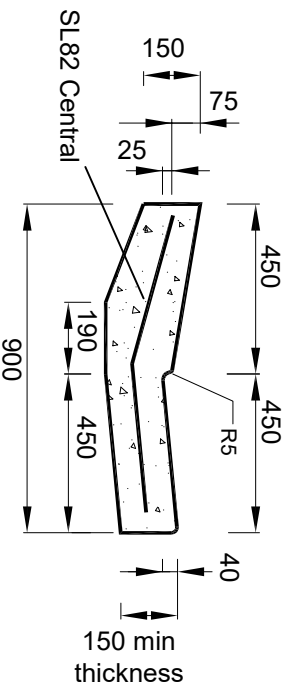


KSC STANDARD DRAWING
VEHICLE CROSSING - RESIDENTIAL

NOT TO SCALE



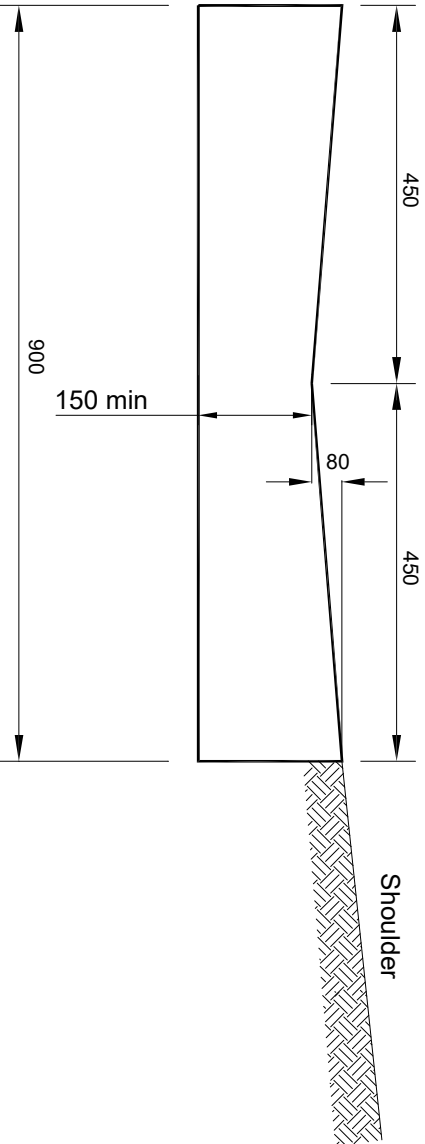
MEDIUM VEHICLE
CROSSING SECTION
AND FOOTPATH SLAB



MEDIUM VEHICLE
CROSSING SECTION

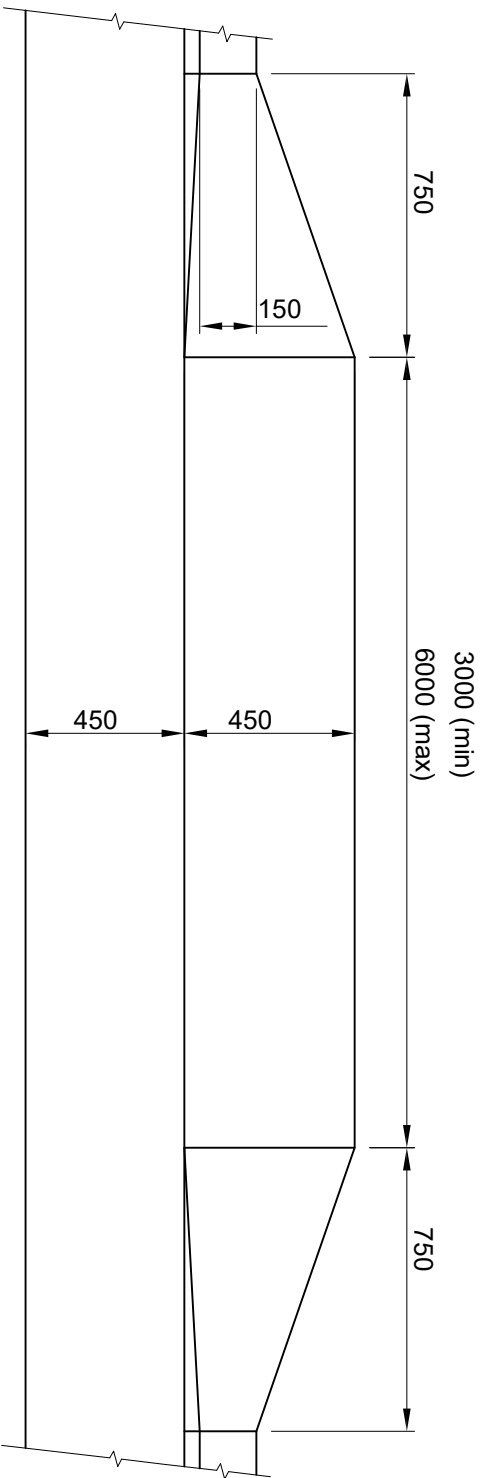
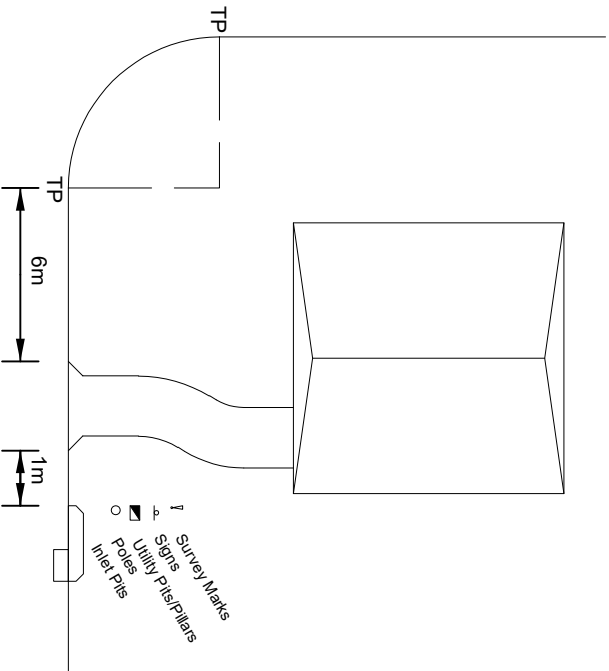
NOTES:

1. Kerbs and dish drain kerbs shall be constructed in accordance with Aus-Spec #2 Section C224
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.
7. Any pavement work or sealing required between the layback and the existing edge of seal is the responsibility of the applicant and must be carried out in accordance with Auspec requirements.

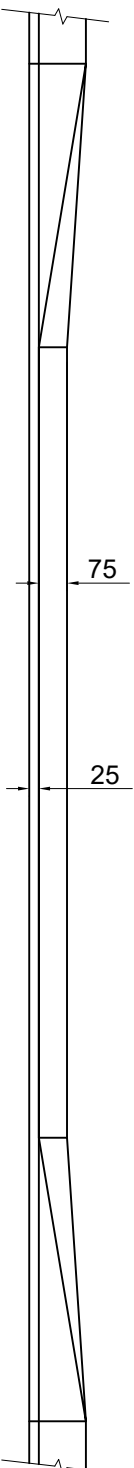


TYPE "SC KERB"
MEDIUM DISHDRAIN KERB

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



MEDIUM VEHICLE CROSSING
PLAN



MEDIUM VEHICLE CROSSING
ELEVATION

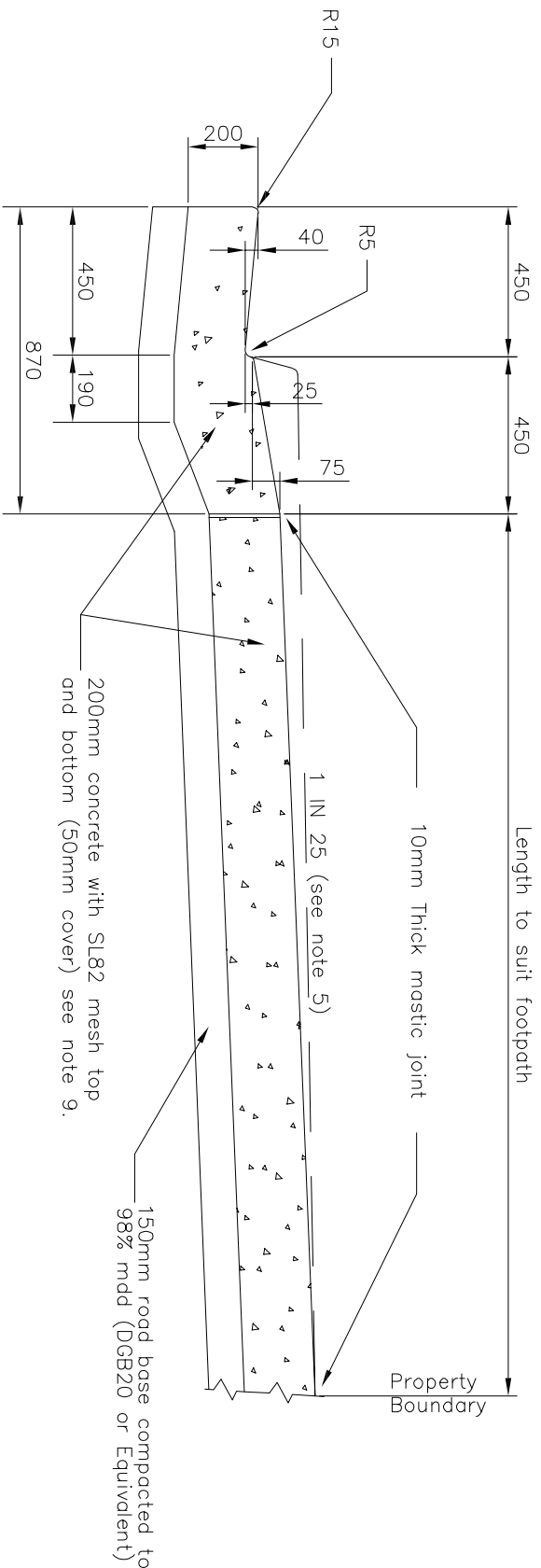
REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx



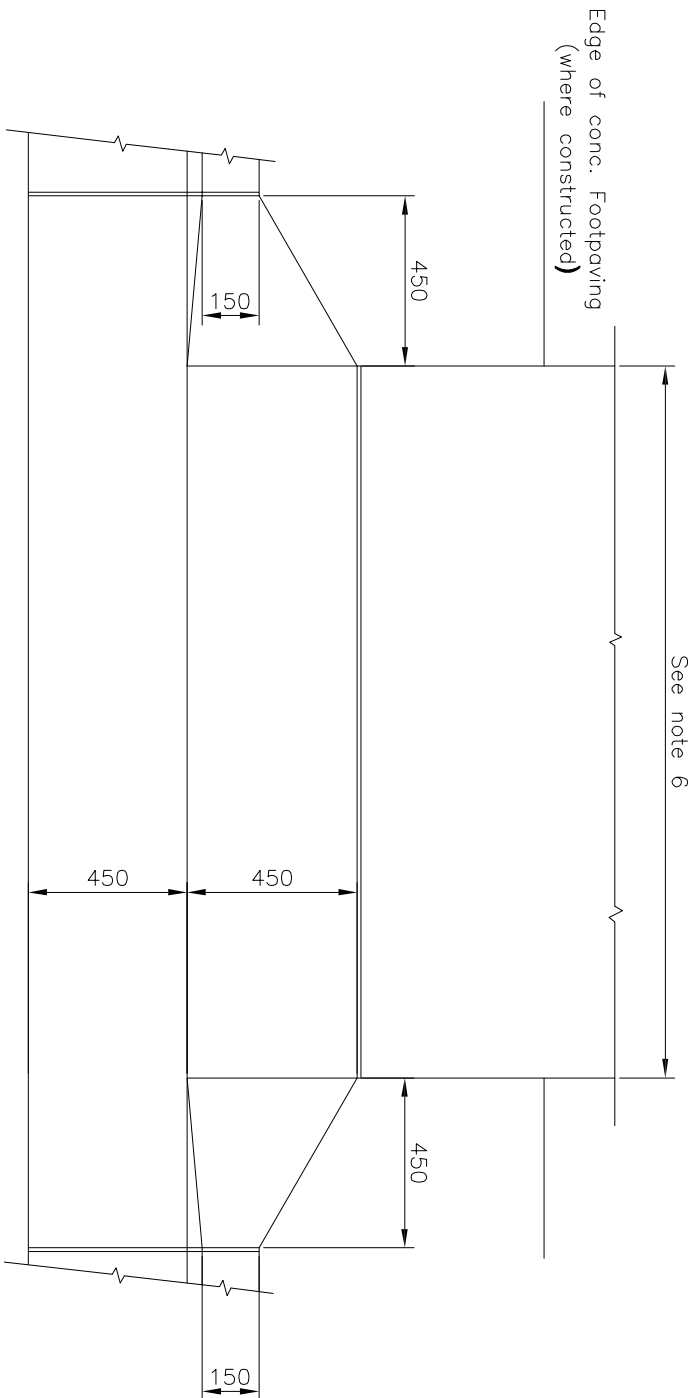
KSC STANDARD DRAWING VEHICLE
CROSSING - MEDIUM DUTY

NOT TO SCALE

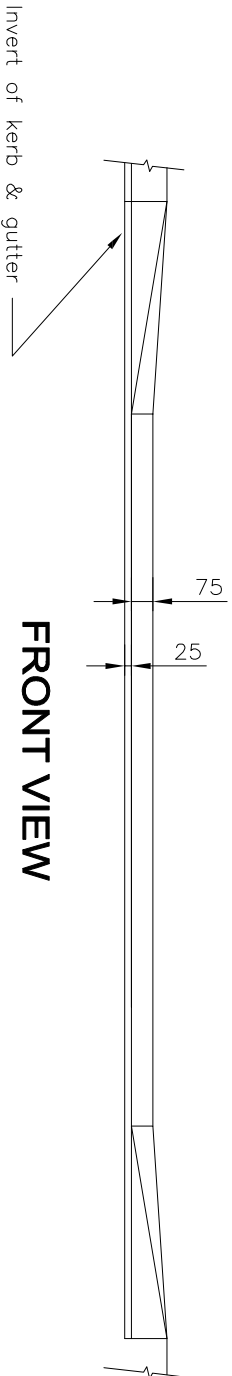
ASD 201(a)



CROSS SECTION



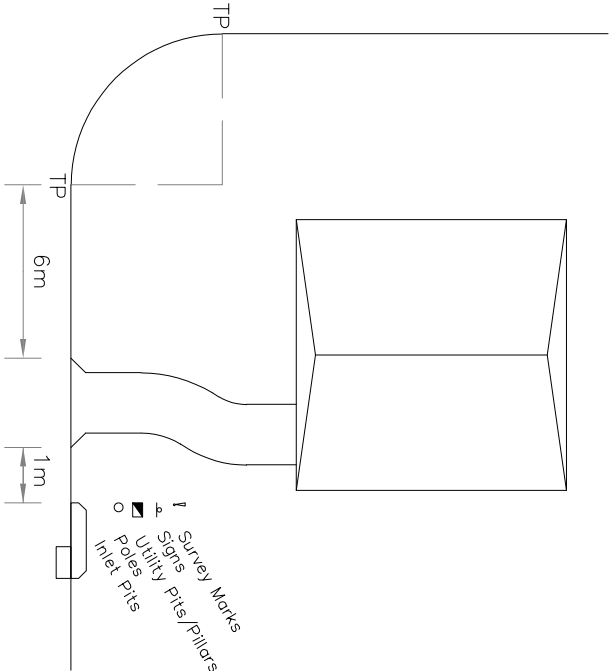
STANDARD INDUSTRIAL VEHICULAR CROSSING
PLAN



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
10. Any pavement work or sealing required between the layback and the existing edge of seal is the responsibility of the applicant and must be carried out in accordance with Auspec requirements.

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



REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx

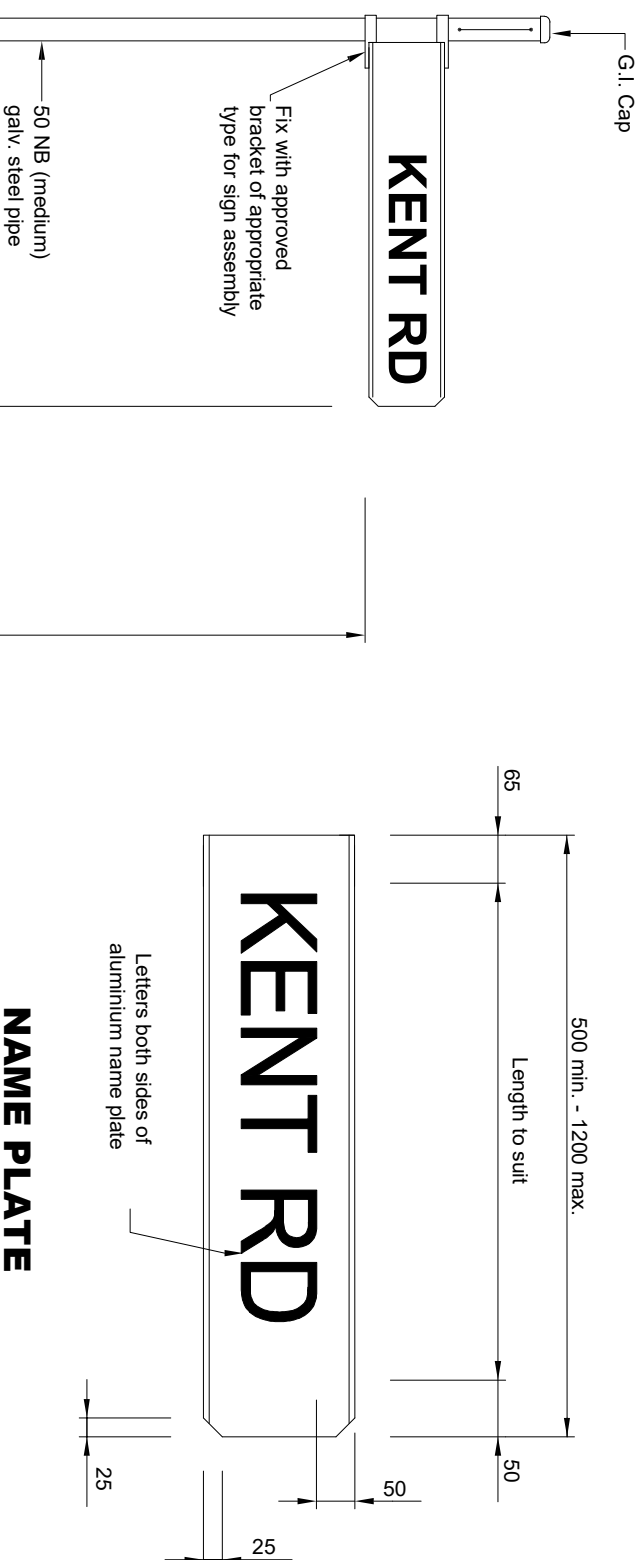


KSC STANDARD DRAWING
VEHICLE CROSSING - HEAVY DUTY

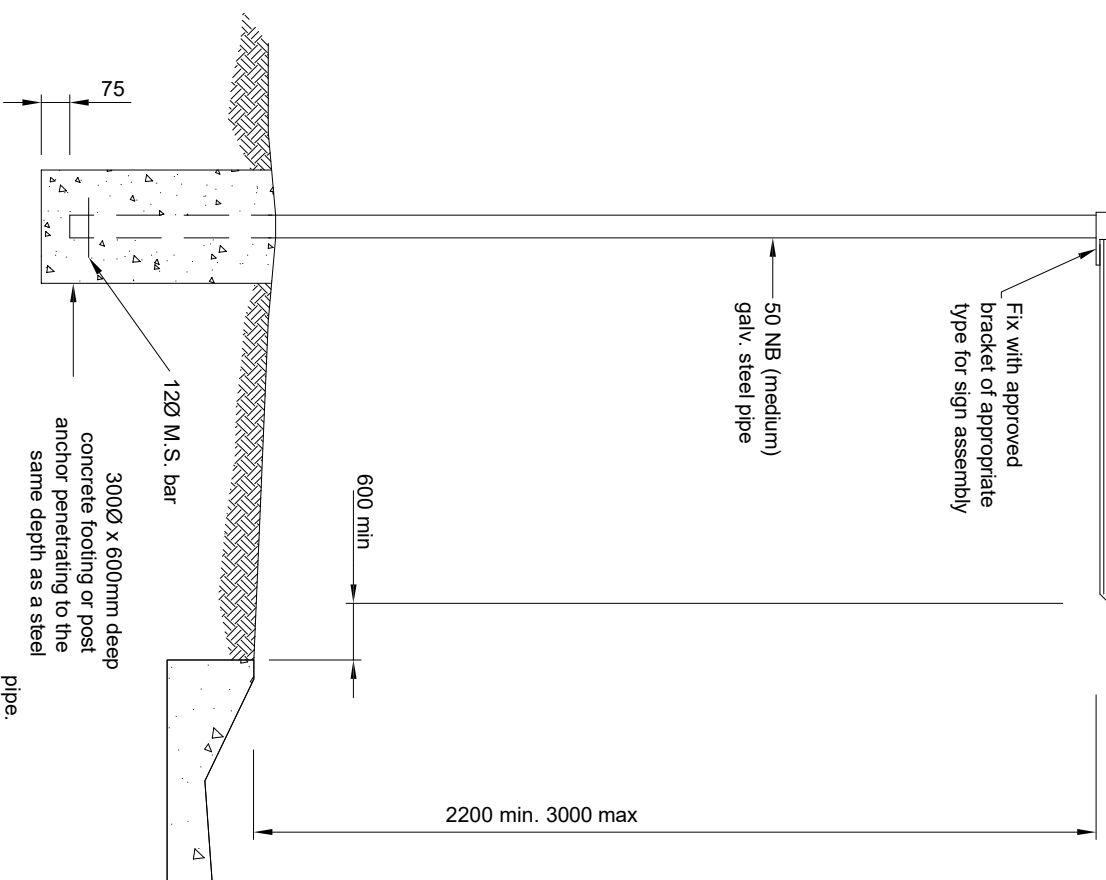
NOT TO SCALE

NOTES

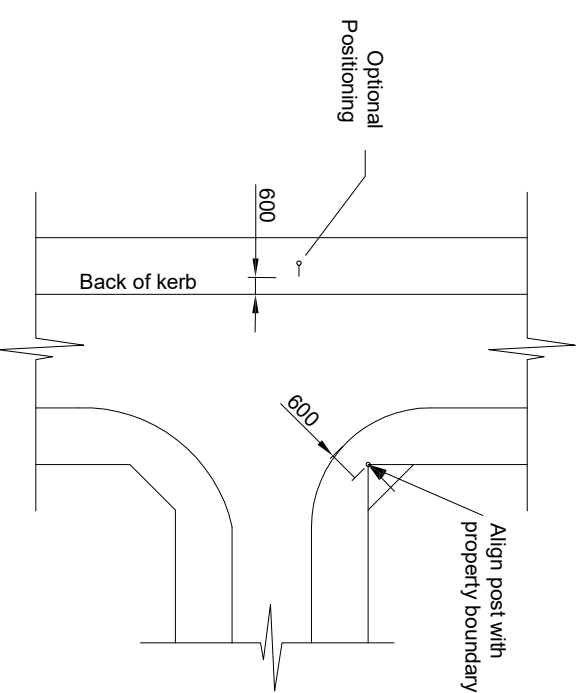
1. Name plates: 150mm wide x 3.2 mm "I" beam extruded aluminium section. 200mm wide plate are required for signs with two (2) lines
2. Letters: Black on Class 2 white reflectorised background (both sides) to AS1743
- Road Names: - 100mm high, Series B, medium spacing
 - 60mm high, for two (2) line signs
- All text to AS 1744
3. All signs to be approved by Council prior to erection
4. Signs to be positioned on the side of street that provides best visibility
5. Concrete N25 in accordance with AS 1379 and AS3600
6. Concrete footing to be used or wide blade post anchors for non cohesive soils such as sand
7. All fasteners shall be tamper / vandal resistant
8. All dimensions are in millimetres unless otherwise stated



NAME PLATE



ELEVATION



LOCATION OF SIGNS

REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx



KEMPSEY
Shire Council



KEMPSEY
Shire Council

KSC STANDARD DRAWING STANDARD STREET SIGN INSTALLATION

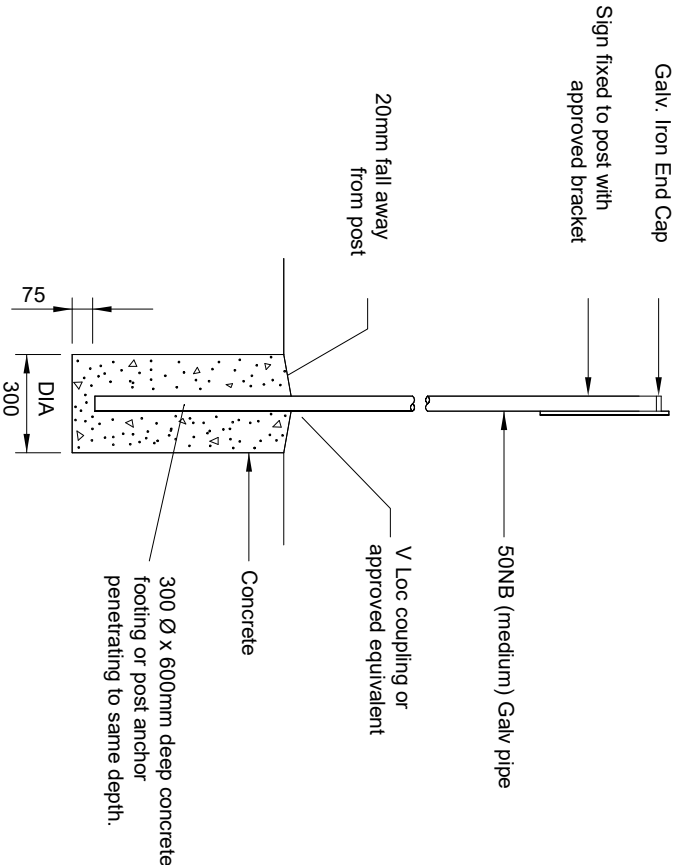
NOT TO SCALE

STANDARD ABBREVIATIONS

Street - ST
Road - RD
Close - CL
Place - PL
Drive - DR
Avenue - AV
Parade - PDE
Esplanade - ESP
Crescent - CR
Terrace - TCE
Court - CT
Grove - GR
Lane - LA
Boulevard - BVD

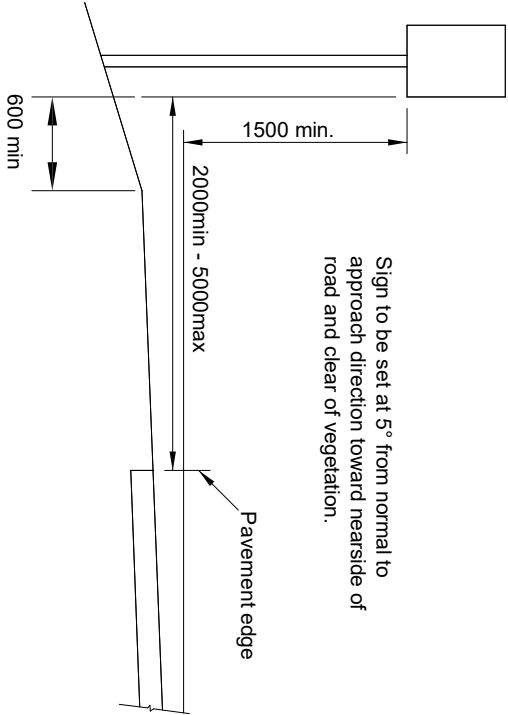
Refer to AS 1742.5 for further Standard Abbreviations.
Other Abbreviations to be approved By Council.

ASD 203

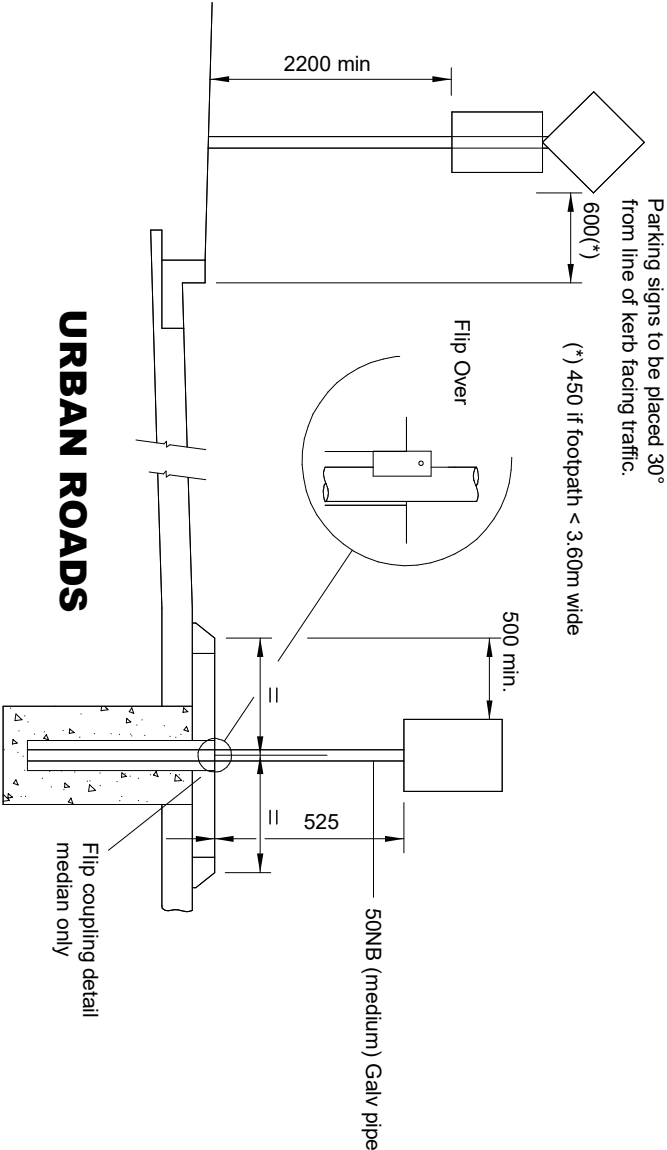


TYPICAL SIGN & FOOTING DETAIL
 (RURAL & URBAN ROADS)

- NOTES:**
1. All signs to be reflectorised Class 1 to AS1743 unless noted otherwise.
 2. All signs and sign post anchoring details are to be approved by Kempsey Shire Council prior to erection.
 3. All signs shall be in accordance with the AS1742 Manual of Uniform Traffic Control Devices be adopted.
 4. Signs shall be aluminium alloy not less than 2mm thick to AS 2848.
 5. Equivalent couplings of similar purpose may be used subject to Kempsey Shire Council approval.
 6. All pipes to be galvanised. Steel pipe to AS 1074. Galvanising to AS 1650.
 7. Concrete minimum N25 in accordance with AS 3600.
 8. All fasteners shall be Tamper / Vandal resistant.
 9. Proprietary couplings shall be installed in accordance with manufacturers recommendations.
 10. All dimensions in millimetres unless otherwise stated.



RURAL ROADS



URBAN ROADS

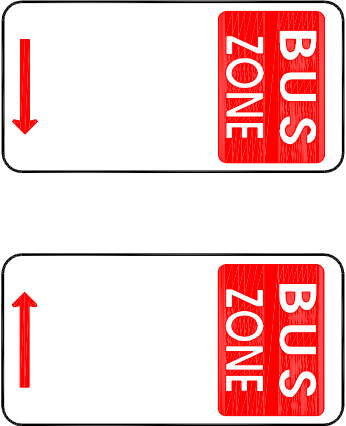
LOCATION OF SIGNS

REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx



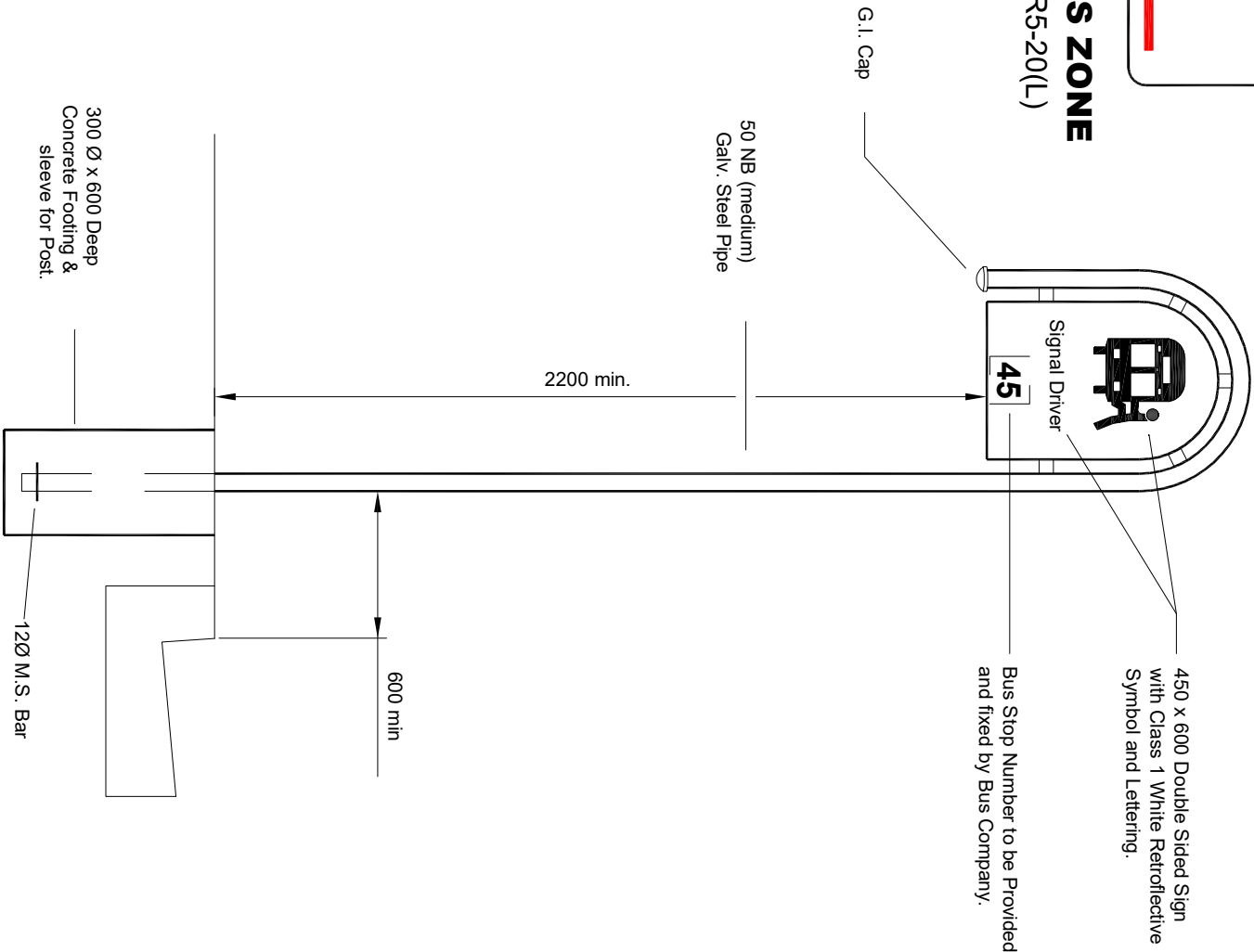
KSC STANDARD DRAWING
 STANDARD SIGN INSTALLATION

NOT TO SCALE



THESE SIGN TO BE POSITIONED WHERE REQUIRED IN THE COMMERCIAL AREAS OF THE MUNICIPALITY FOR BOTH INDENTED AND KERBSIDE BUS BAYS OR WHERE APPROVED BY TRAFFIC ADVISORY COMMITTEE.

REGULATORY BUS ZONE
SIGNS (R5-20(R) & R5-20(L))



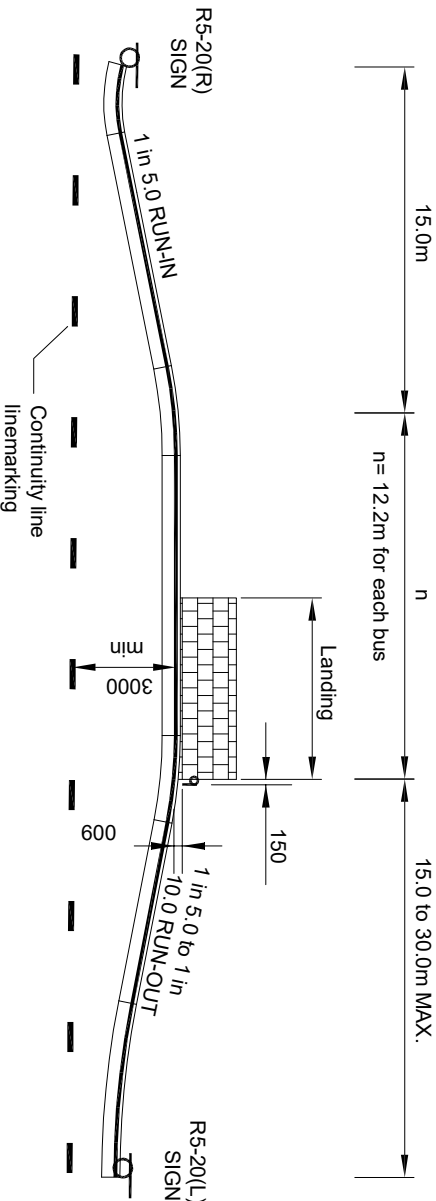
TYPICAL SIGN & FOOTING DETAIL

REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx

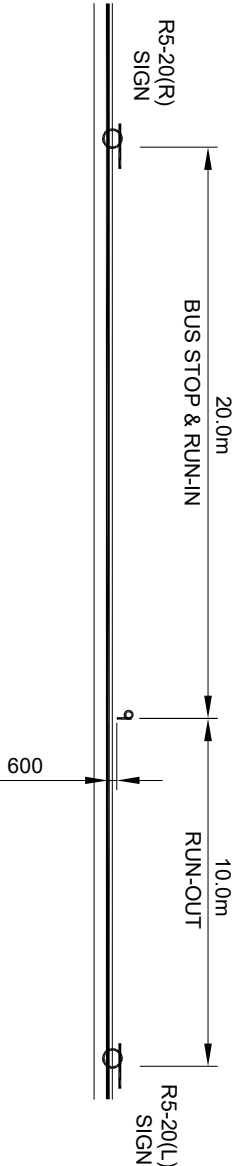


NOTES:

1. Sign Post, Sign Board and Fittings to be Powder Coated (Dulux "Wizard Blue")
2. Concrete N25 in accordance with AS1379 and AS3600.
3. All Signs to be retroreflective Class 1 to AS 1743 unless noted otherwise.
4. Linemarking for Kerbside Bus Bays to be accordance with AS1742.11
5. Indented Bus Bays to be provided as per Austroads Guide, Part 11 - Parking
6. Regulatory Bus Zone Signs to be positioned as shown in Commercial Areas for both Indented and Kerbside Bus Bays and shall be approved by the Traffic Advisory Committee. Times to suit specific location.
7. Landing shall be a minimum of 3.0m long by 1.20m wide unless specified otherwise. Landing to be 100mm thick concrete with 'Cobblestone' texture and 'Terracotta' colouring.
8. Where Tactile ground surface indicators are required for kerb ramps refer to Australian Standard AS1428.4 for detail.
9. All Dimensions are in millimetres unless otherwise stated.



SIGN POSITION FOR INDENTED BUS BAYS



SIGN POSITION FOR KERBSIDE BUS BAYS

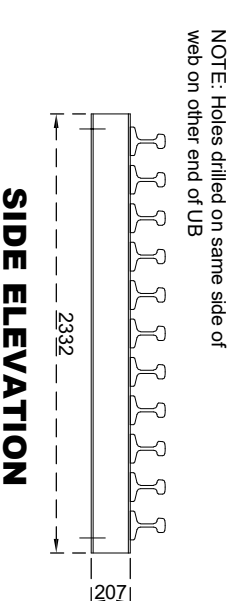
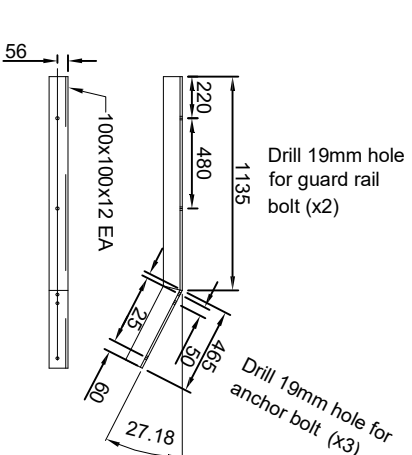
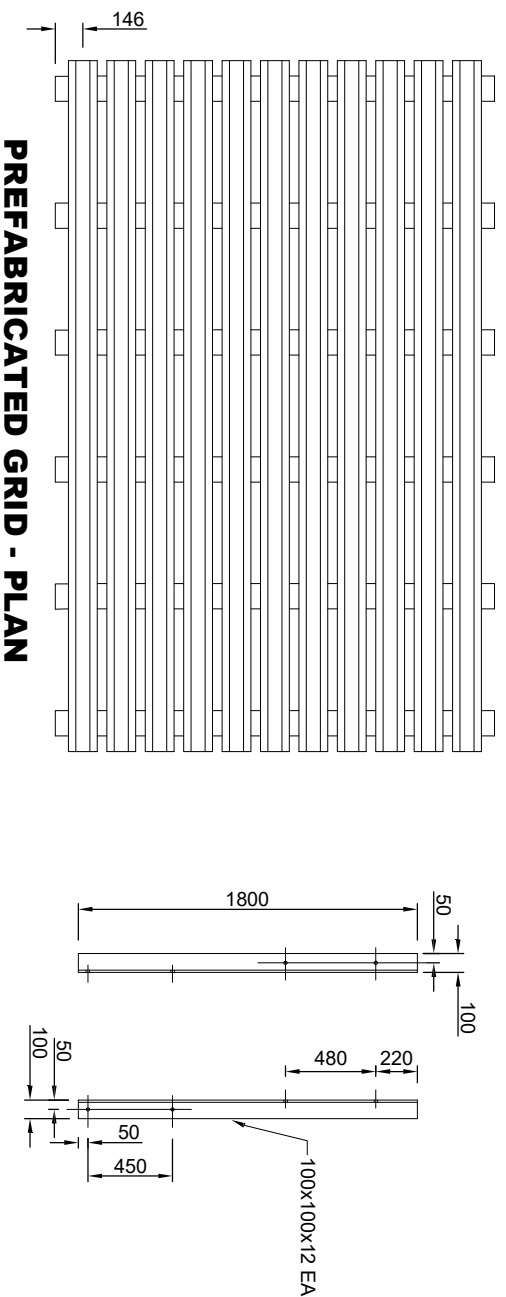
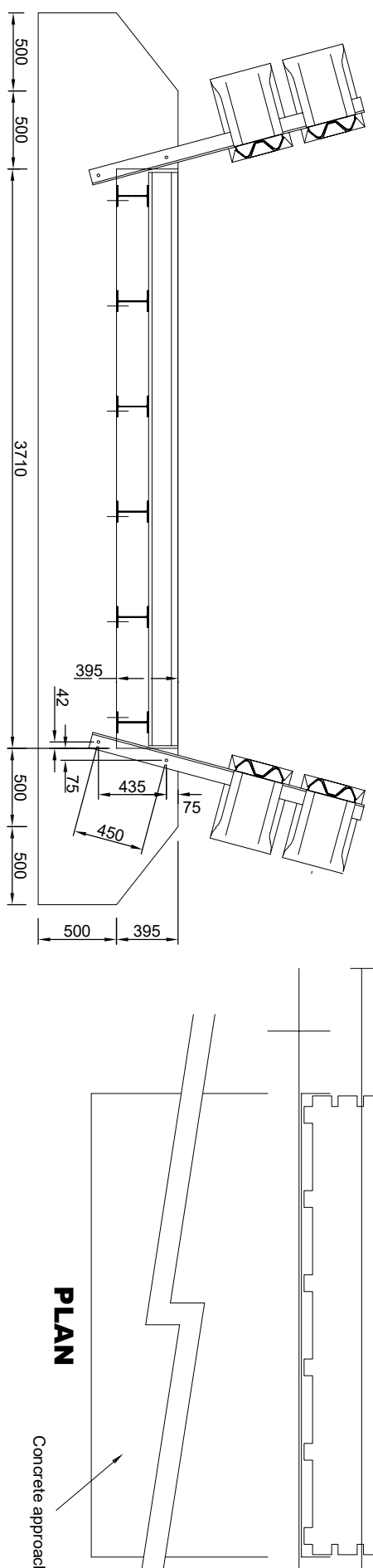
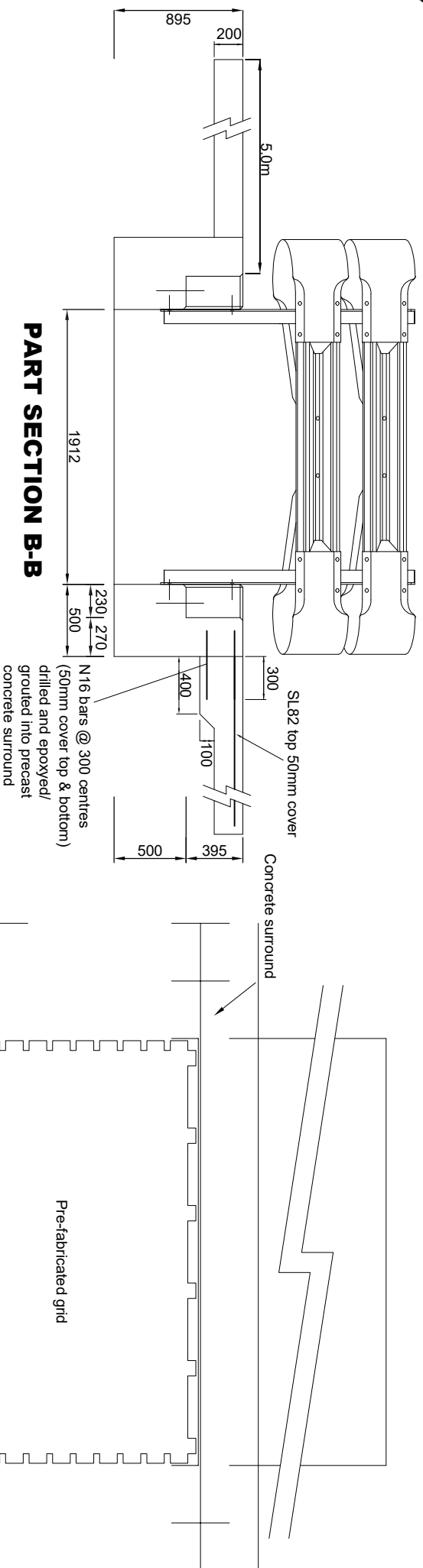
KSC STANDARD DRAWING BUS
STOP STANDARD DETAILS

NOT TO SCALE

ASD 205

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.R1 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



REVISION	DESCRIPTION	INITIAL	DATE
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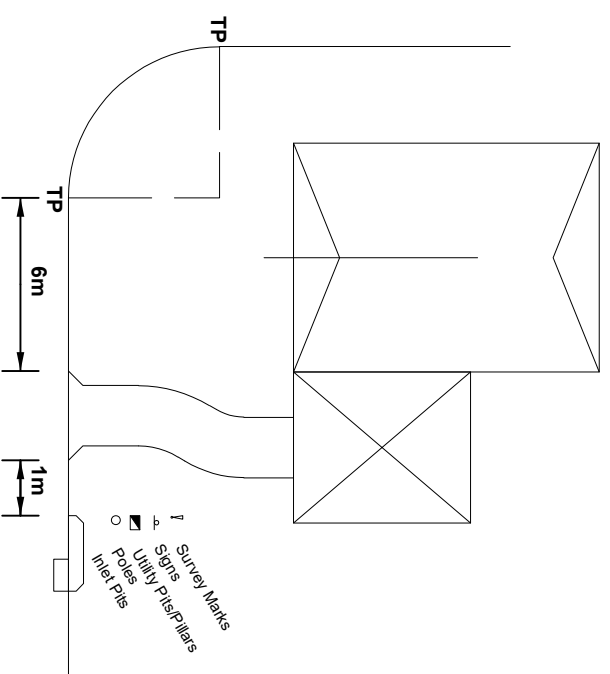


KEMPSEY
Shire Council

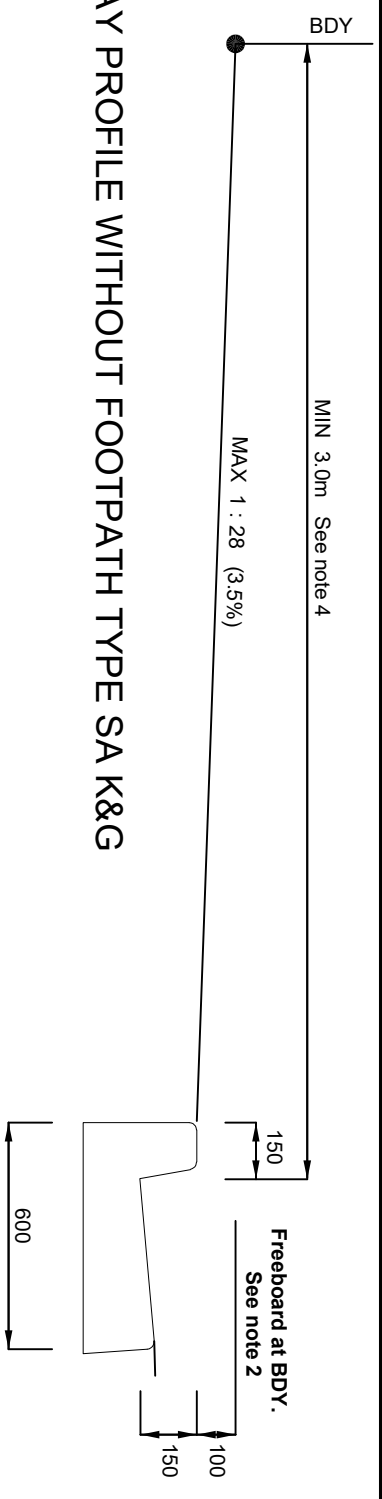
KSC STANDARD DRAWING 3.7m WIDE CATTLE GRID

NOT TO SCALE

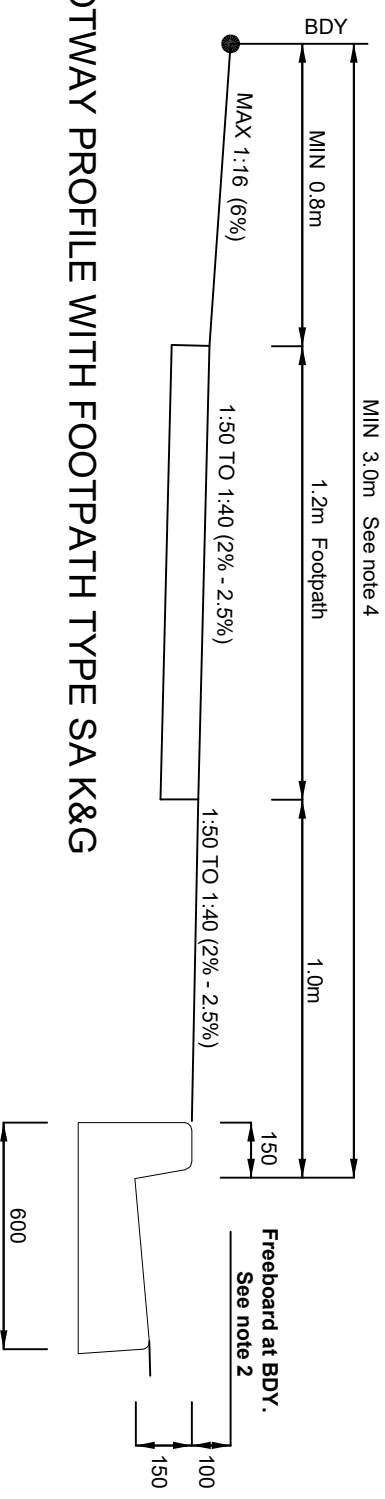
Driveways minimum of 6m from tangent point of street curve (corner sites)



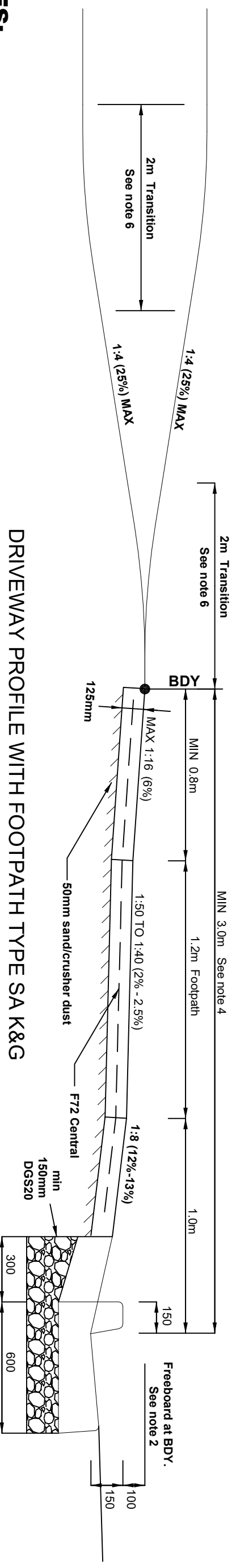
FOOTWAY PROFILE WITHOUT FOOTPATH TYPE SAK&G



FOOTWAY PROFILE WITH FOOTPATH TYPE SAK&G



DRIVEWAY PROFILE WITH FOOTPATH TYPE SA K&G



NOTES:

1. Survey marks are to be located and indicated on design plans prior to construction. Refer to the Surveying Act 2002 Sect. 24.
2. Driveway profiles are applicable to 1:100 yr ARI flows designed to be contained within the kerb and gutter and provide 100mm freeboard in accordance with AUS-SPEC 1 - D5.
3. Where designed flow depth for major event (1:100 yr ARI) exceeds kerb height, minimum 100mm freeboard is to be provided at boundary line. Details to be submitted to Council for approval prior to construction.
4. For driveway change of grade greater than 12.5% provide 3.0m transition. Transition must not start until the 100mm freeboard has been attained.
5. Standard footway & driveway profiles have been based on a typical footway of minimum width 3.0m. For footway width less than 3.0m typical driveway and footway long sections are to be submitted to Council for approval.
6. Driveway profiles are to conform to the requirements of AS/NZS 2890.1 Parking Facilities - Off - Street Car Parking.
7. All dimensions in millimetres unless otherwise noted.
8. 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.

REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx



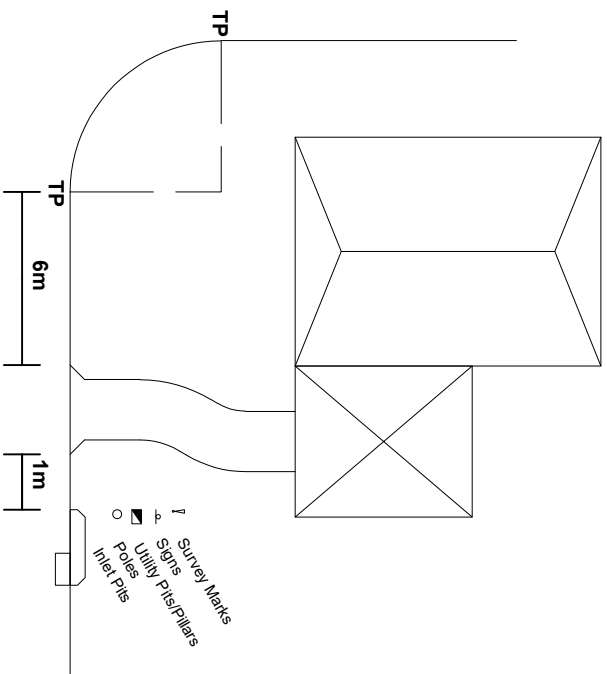
KEMPSEY
Shire Council



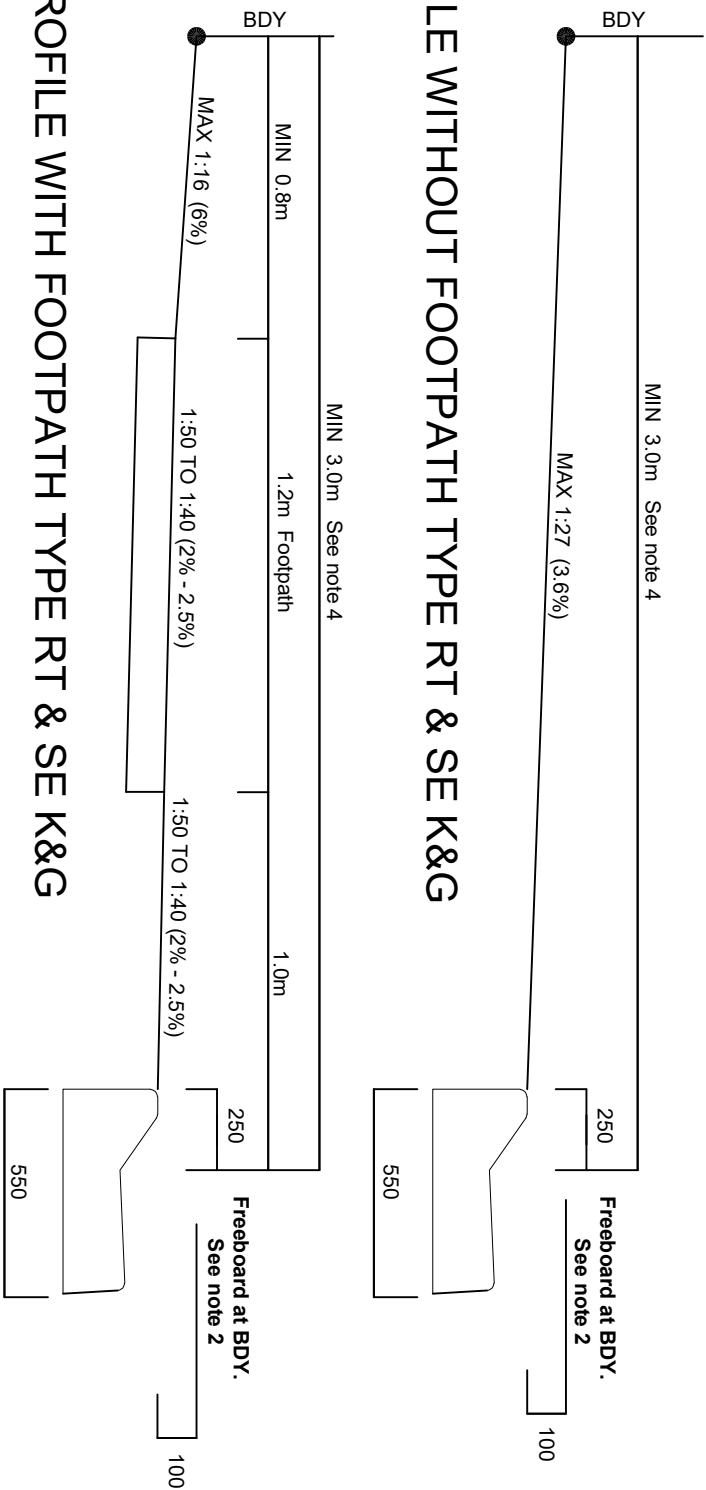
KSC STANDARD DRAWING FOOTWAY AND DRIVEWAY PROFILES FOR SA KERB AND GUTTER

ASD 207

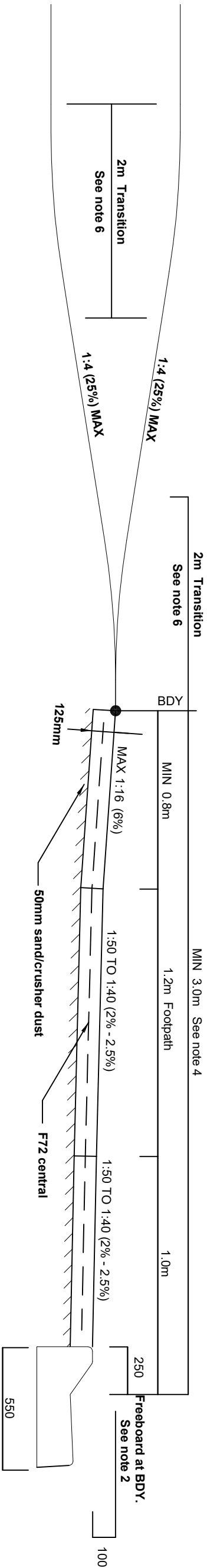
Driveways minimum of 6m from tangent point of street curve (corner sites)



FOOTWAY PROFILE WITHOUT FOOTPATH TYPE RT & SE K&G



FOOTWAY PROFILE WITH FOOTPATH TYPE RT & SE K&G



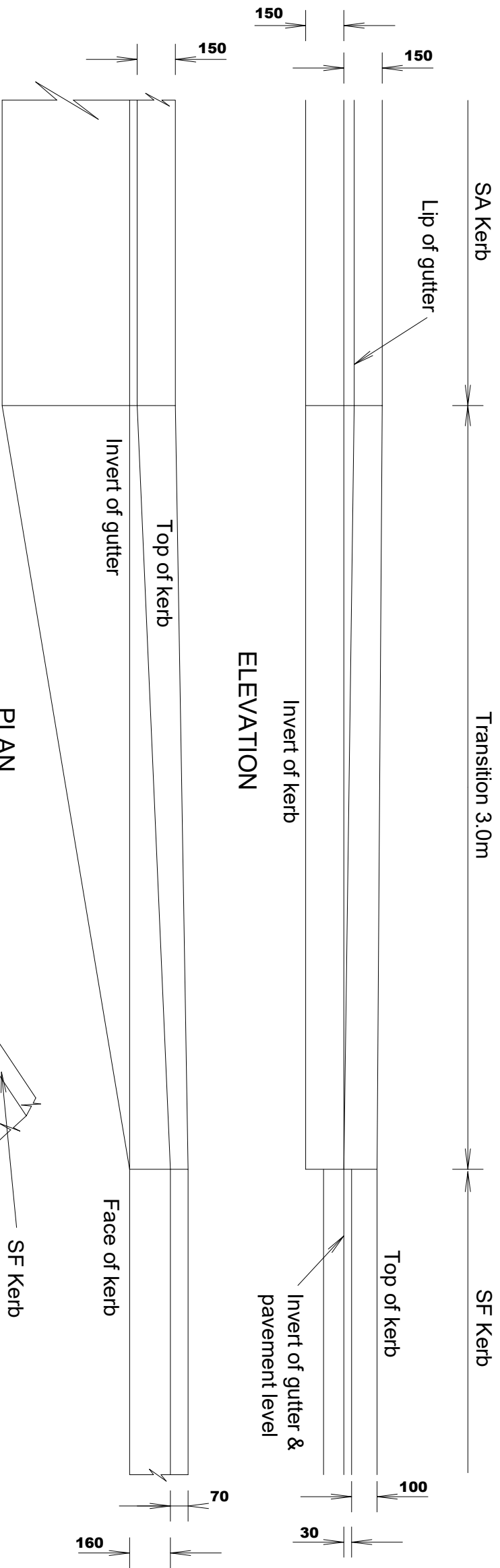
DRIVEWAY PROFILE WITH FOOTPATH TYPE RT & SE K&G

- NOTES:**
- Survey marks are to be located and indicated on design plans prior to construction. Refer to the Surveying Act 2002 Sect. 24.
 - Driveway profiles are applicable to 1:100 yr ARI flows designed to be contained within the kerb and gutter and provide 100mm freeboard in accordance with AUS-SPEC 1 - D5.
 - Where designed flow depth for major event (1:100 yr ARI) exceeds kerb height, minimum 100mm freeboard is to be provided at boundary line. Details to be submitted to Council for approval prior to construction.
 - For driveway change of grade greater than 12.5% provide 3.0m transition. Transition must not start until the 100mm freeboard has been attained.
 - Standard footway & driveway profiles have been based on a typical footway of minimum width 3.0m. For footway width less than 3.0m typical driveway and footway long sections are to be submitted to Council for approval.
 - Driveway profiles are to conform to the requirements of AS/NZS 2890.1 Parking Facilities - Off - Street Car Parking.
 - All dimensions in millimetres unless otherwise noted.
 - Where standard designs cannot be implemented, eg. due to natural surface levels, low points in the road, etc, NOT TO SCALE 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.

REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx

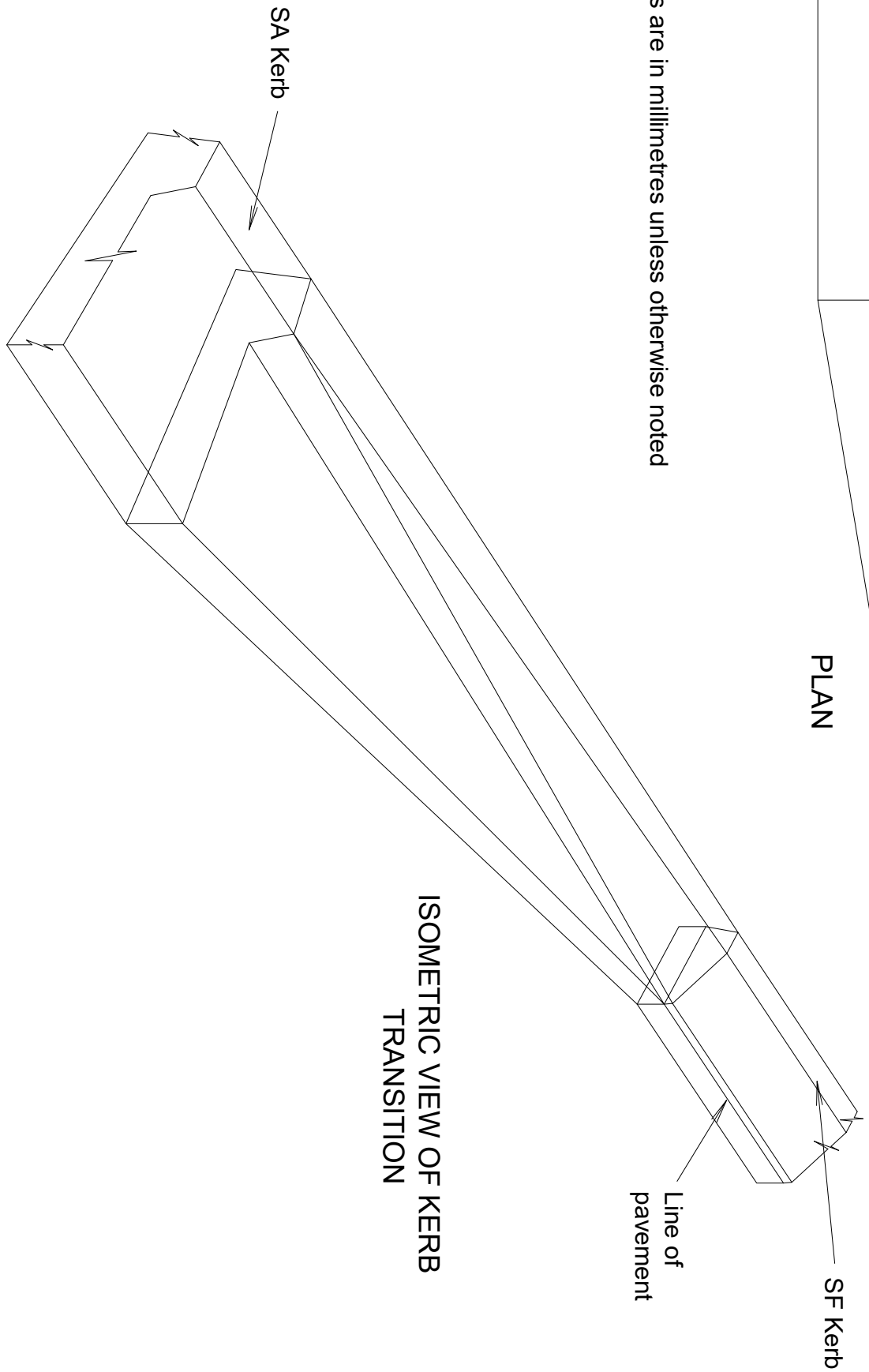


KSC STANDARD DRAWING FOOTWAY
AND DRIVEWAY PROFILES
FOR SE KERB AND GUTTER
NOT TO SCALE



NOTES:

- 1. All dimensions are in millimetres unless otherwise noted

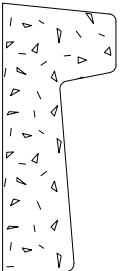
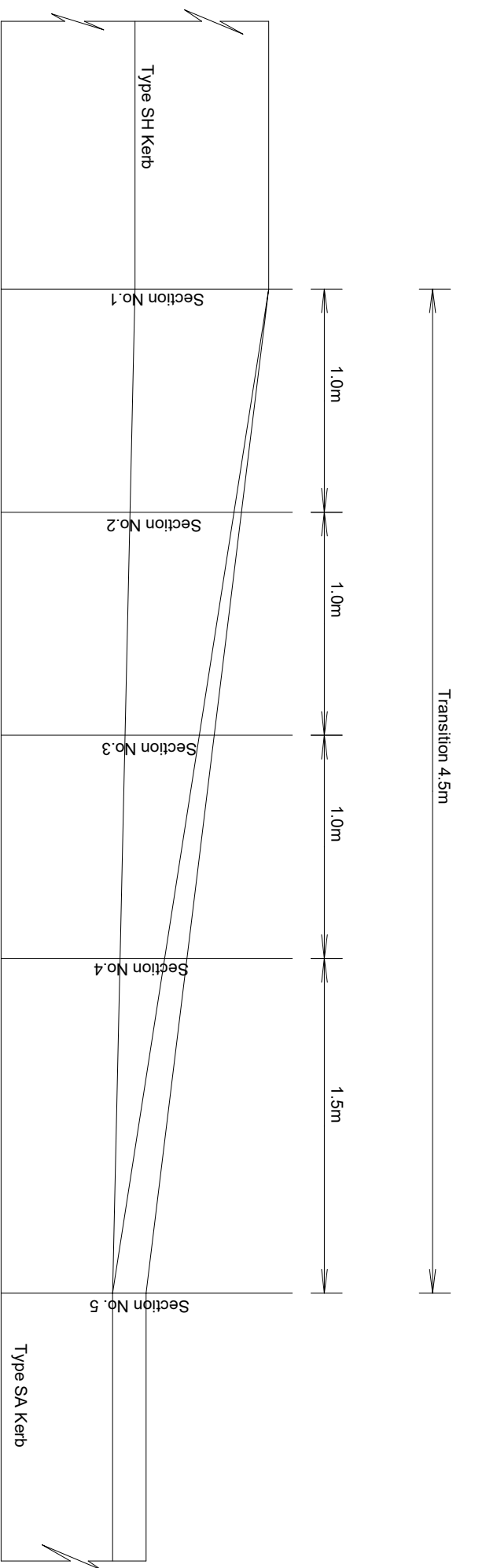


REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx

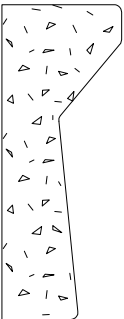


KSC STANDARD DRAWING
KERB TRANSITION - TYPE SA KERB TO TYPE SF KERB

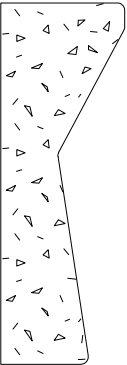
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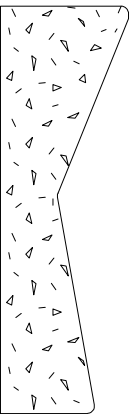
SECTION 5



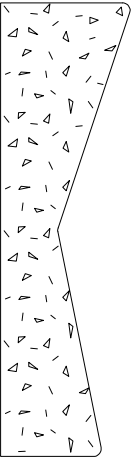
SECTION 4



SECTION 3

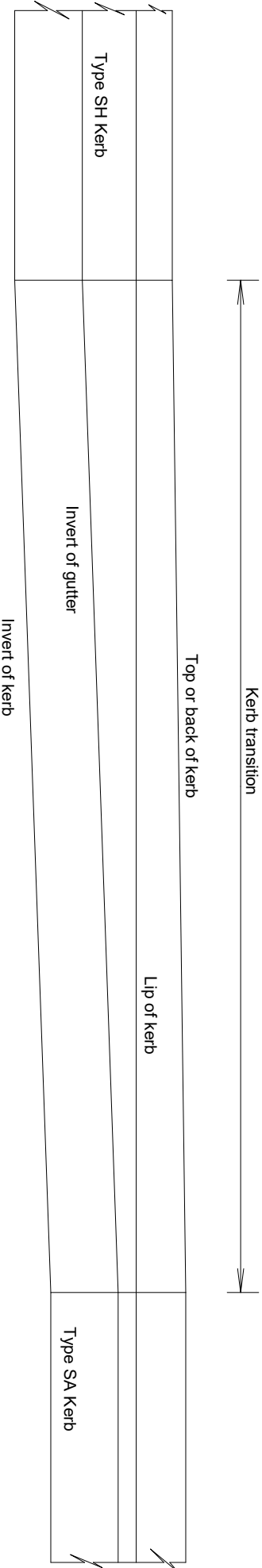


SECTION 2



SECTION 1

PLAN



ELEVATION

This plan has been adopted from the plan produced by the Roads and Traffic Authority NSW (RTA), first issued June, 1998. Drawing Number MD.R15.B08.A. REFER TO CURRENT EQUIVALENT EDITION BEFORE USING.

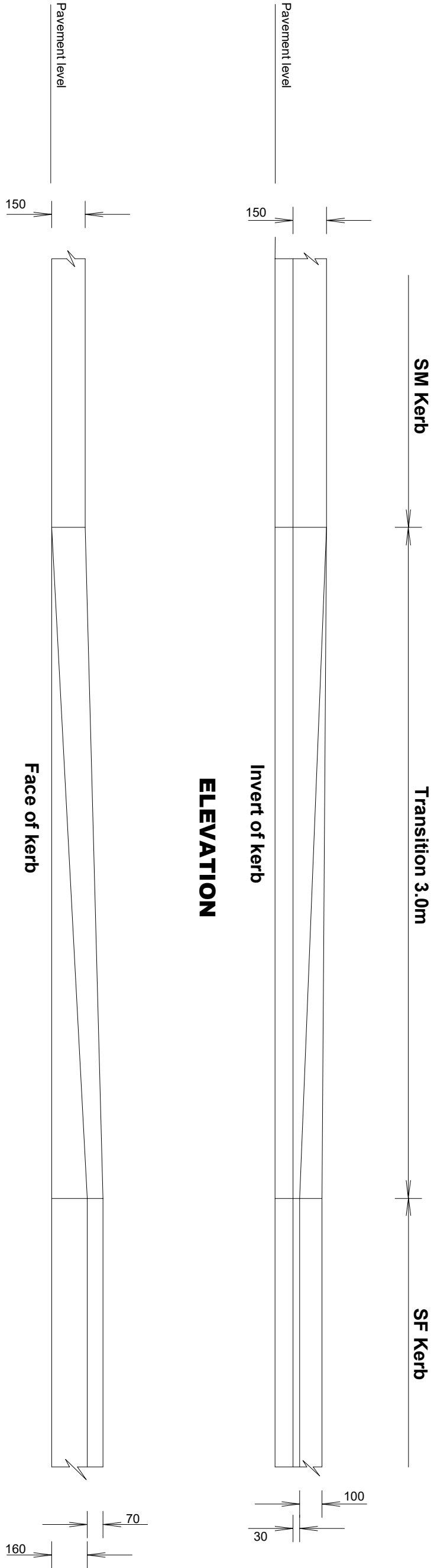
REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx



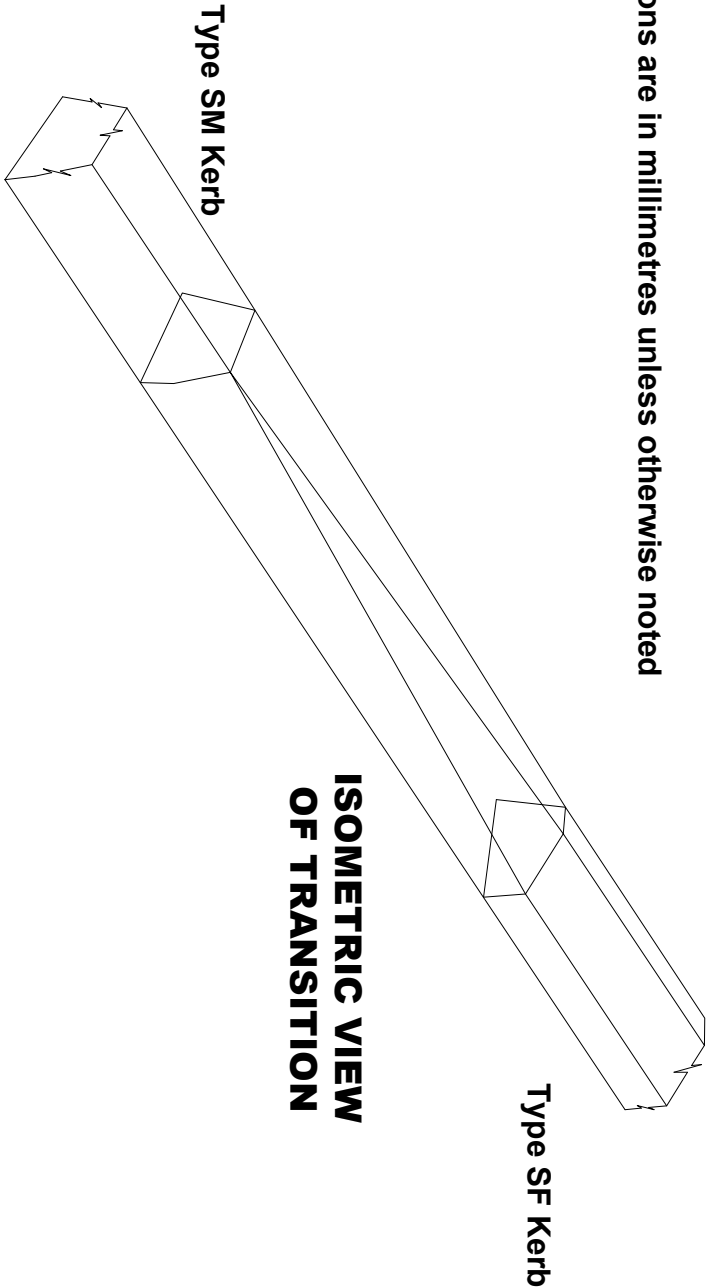
KSC STANDARD DRAWING
KERB TRANSITION - TYPE SH DRAIN TO TYPE SA KERB

NOT TO SCALE

ASD 212



PLAN



NOTES:

- 1. All dimensions are in millimetres unless otherwise noted

This plan has been adopted from the plan produced by the Roads and Traffic Authority NSW (RTA), first issued June, 1998. Drawing Number MD.R15.B09.A. REFER TO CURRENT EQUIVALENT EDITION BEFORE USING.

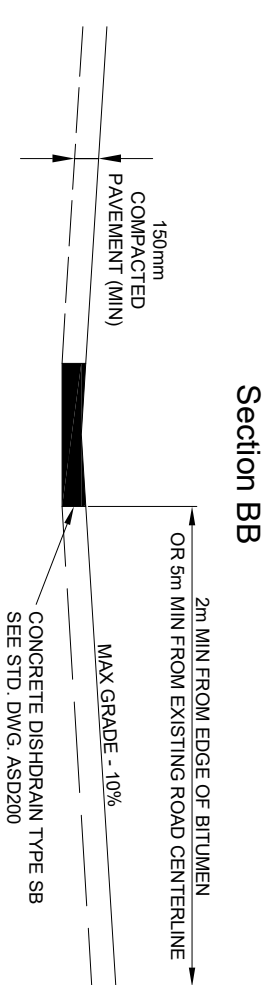
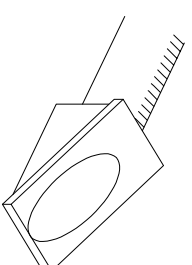
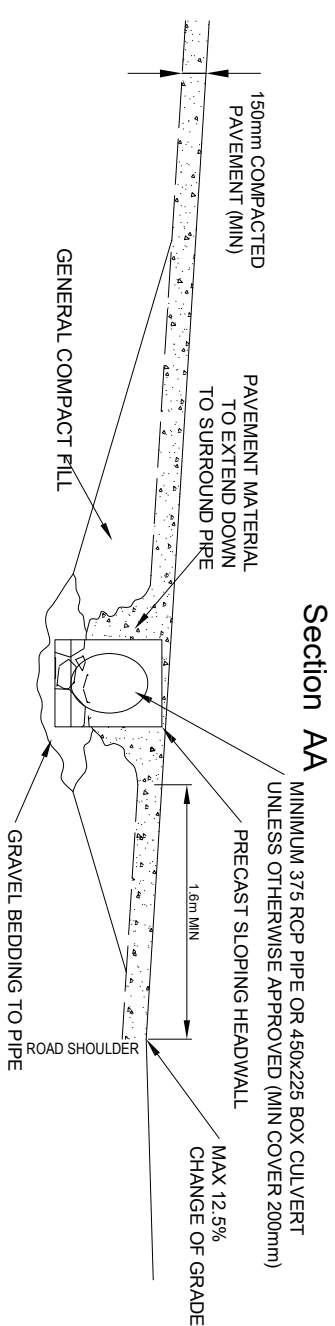
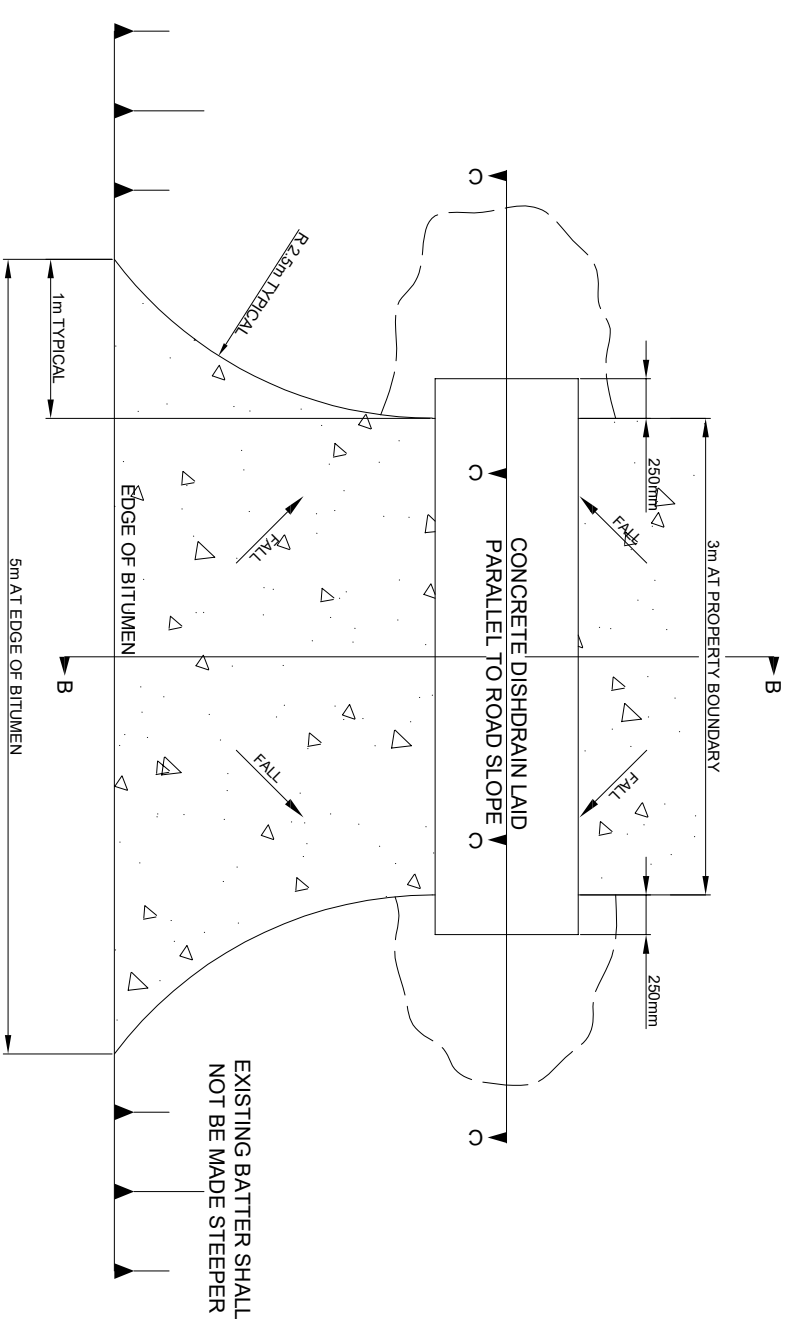
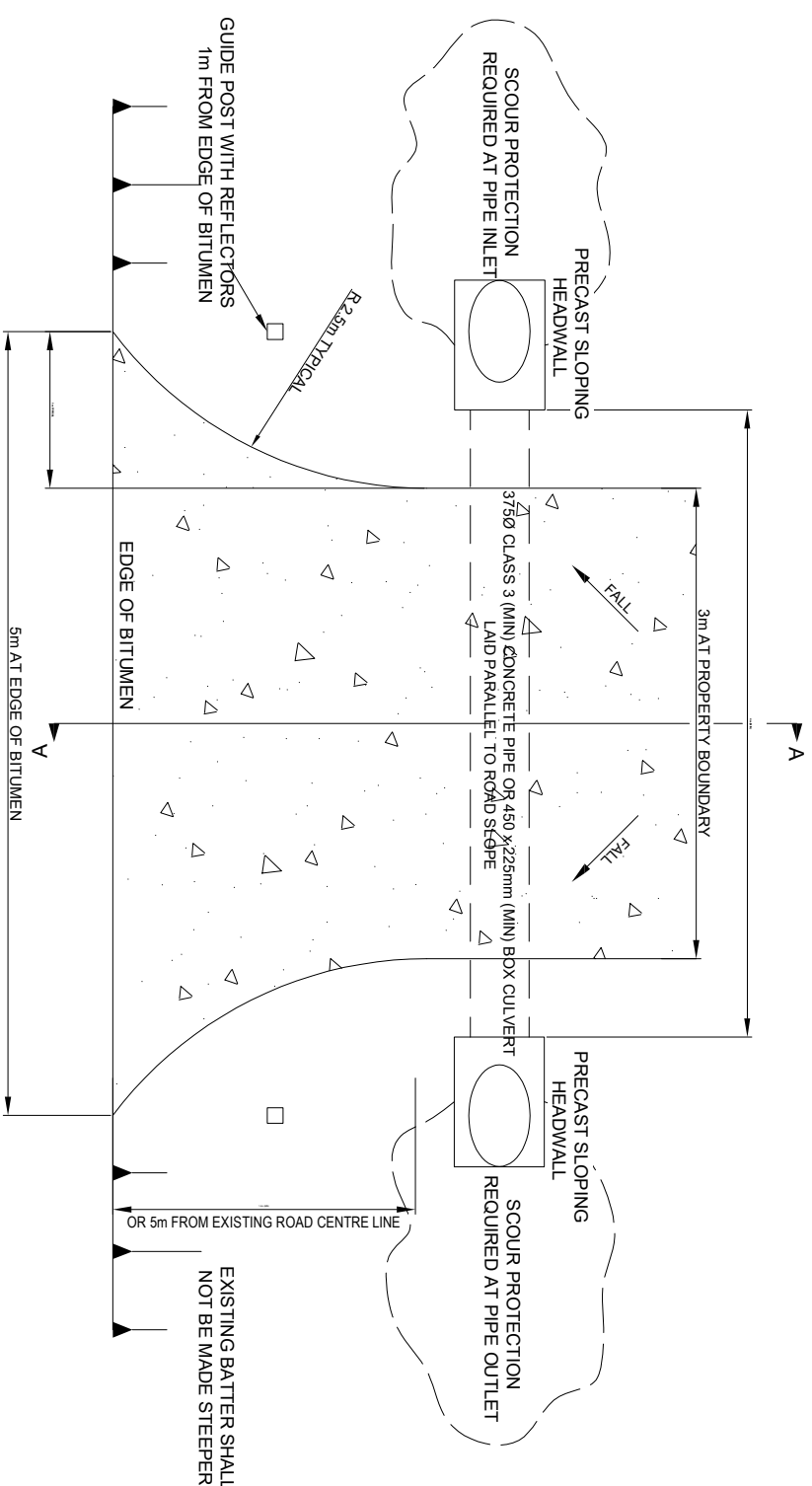
REVISION	DESCRIPTION	INITIAL	DATE
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KSC STANDARD DRAWING
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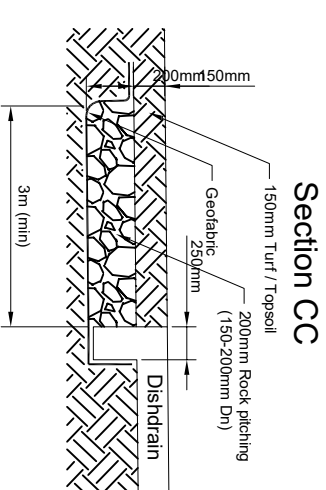
NOT TO SCALE

ASD 213



PRECAST SLOPING HEADWALL

DISH CROSSING (SB Dishdrain)



DISH CROSSING Erosion Protection Detail

NOTES:

- 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%.
- Where the existing road is sealed the driveway is to be sealed to a minimum 3m within the property boundary.
- For driveway change of grade greater than 12.5% provide 3.0m transition.
- Driveway profiles are to conform to the requirements of AS 2890.1 Parking Facilities - Off - Street Car Parking.
- All dimensions in millimetres unless otherwise noted.
- 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.
- Provide scour protection at pipe inlet & outlet.

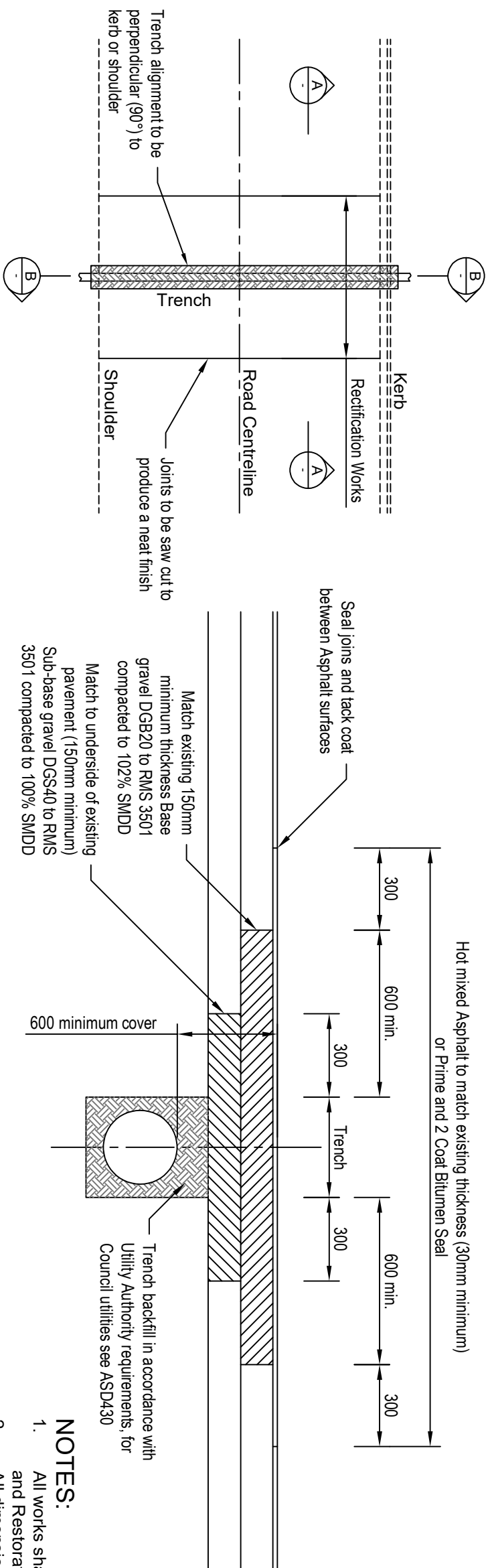
REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx



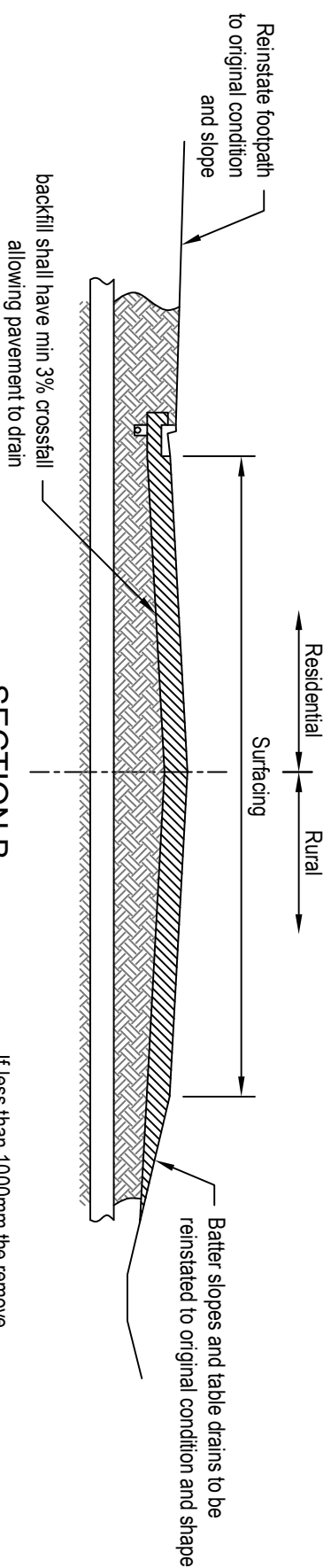
KSC STANDARD DRAWING RURAL DRIVEWAY CONSTRUCTION DETAILS

NOT TO SCALE

ASD 214



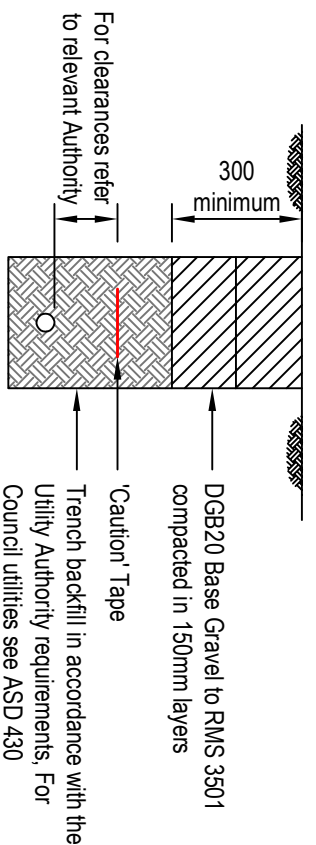
TYPICAL ROAD CROSSING PLAN



SECTION A

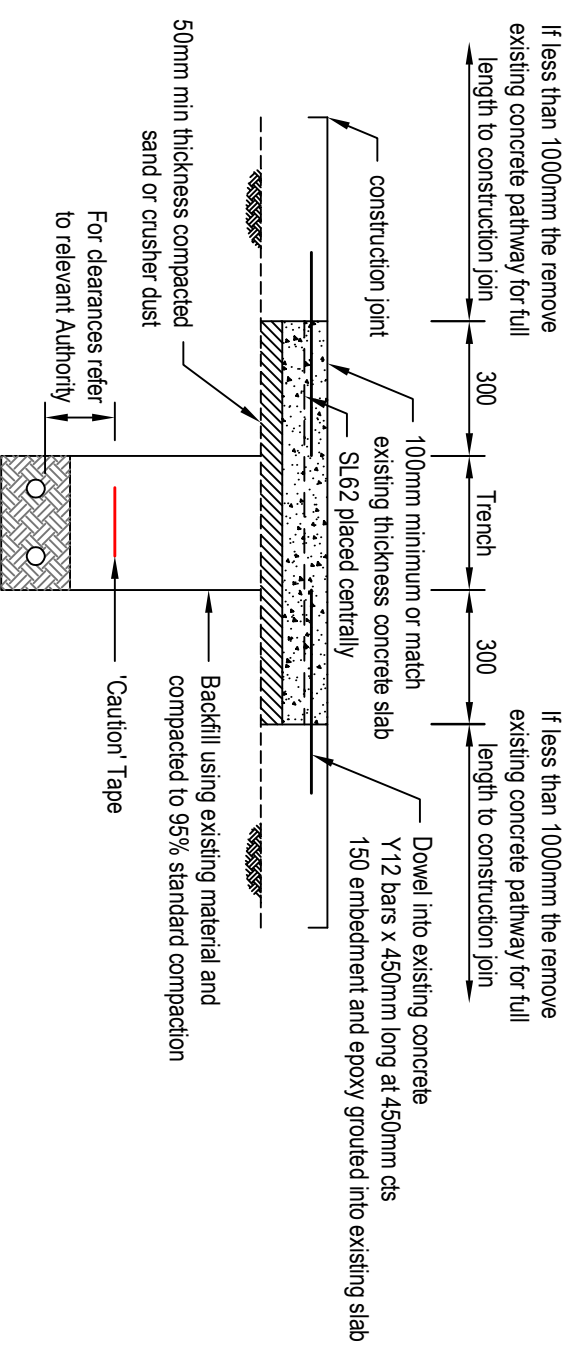
- ## NOTES:
1. All works shall comply with Specification C249 - Road Openings and Restoration.
 2. All dimensions are in millimeters unless noted otherwise.
 3. All batter slopes, table drains and verges are to be reinstated to original condition including vegetation where necessary.
 4. Existing seal shall be neatly cut with Diamond Saw to form the excavation.
 5. Pavement shall be replaced to a minimum depth of 300mm or match the existing which ever is greater.
 6. Pavement layers shall be compacted in max 150mm layers (min 75mm).
 7. Compaction test results in accordance with C249 shall be submitted to Council for approval.
 8. Council inspection required of compacted base prior to wearing surface being placed.

SECTION B



UNSEALED ROAD

TRENCHING ACROSS ROADS IS ONLY PERMITTED WITH THE WRITTEN APPROVAL OF COUNCIL. UNAPPROVED WORKS WITHIN THE ROAD RESERVE ARE ILLEGAL. SECTION 138 ROADS ACT 1993



CONCRETE FOOTPATH

REVISION	DESCRIPTION	INITIAL	DATE
REV 0	REVISION 0	XX	xx/xx/xxxx



KEMPSEY
Shire Council



KSC STANDARD DRAWING

ROAD CROSSING AND FOOTPATH RESTORATION DETAILS

ASD 215

NOT TO SCALE

ASD 215