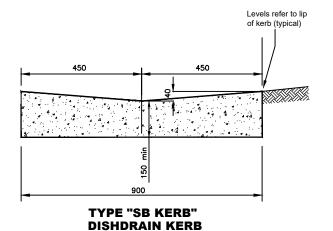
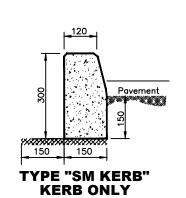
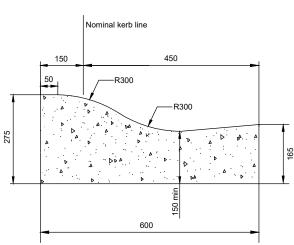
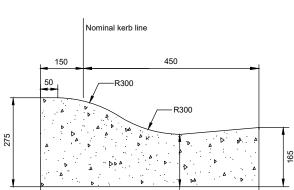
150 **SA TYPE KERB & GUTTER**

150 **STANDARD EDGE STRIP**

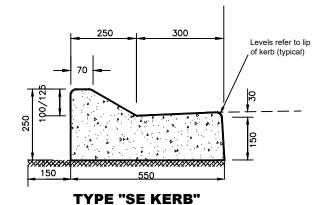


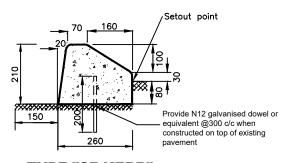






600mm ROLL KERB AND GUTTER





TYPE "SF KERB" MEDIAN KERB

NOTES:

- Construction shall be in accordance with Shellharbour Engineering Construction Code based on AUS-SPEC.
- 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. Road Sub-base to extend 150mm behind back of kerb.

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

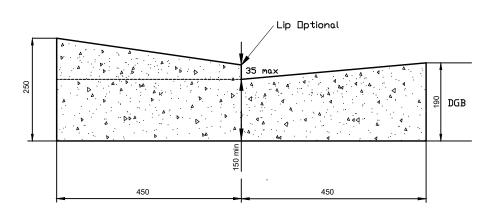
- Levels to lip

- 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

7. All dimensions in millimetres unless otherwise stated



TYPICAL LAYBACK CROSS-SECTION WITH OPTIONAL LIP

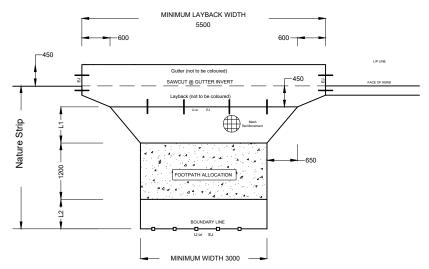
SCALES	REV. DATE OFFICER	MENDMENT DETAILS	APPROVED - Manager Technical Ser	rvices	LOCATIONS	RVICES LEGEND Gas: — G — —		STRATION CENTRE RBOUR CIVIC CENTRE	PLAN DETAILS	FILE:	REVISION
SURVEYED OFFICER: DATE: SURVEY MARKS:	A 19122019 BH B 17/06/2021 PW		DESIGNED: Edith Lume DATE: 14/12/2021	SEDIMENT AND EROSION CONTROL Provide sediment and	Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS,	Electricity: E	(Cnr Cygnet POST Loc SHELLHARBOUF	GNET AVENUE et & College Avenue) STAL ADDRESS icked Bag 155 JR CITY CENTRE NSW 2529	SCC STANDARD DRAWING	PLAN No:	SHEET:
			DRAWN: Edith Lume DATE: 14/12/2021	erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	for most recent service locations and precautions that may be necessary	TelComm Local Cable:	CITYCOUNCIL FAX:	: (02) 4221 6111 : (02) 4221 6016 LLHARBOUR CITY CENTRE	VEHICLE CROSSING - RESIDENTIAL	ASD 200	

LEGEND

- IJ Isolation Joint
- EJ Expansion Joint

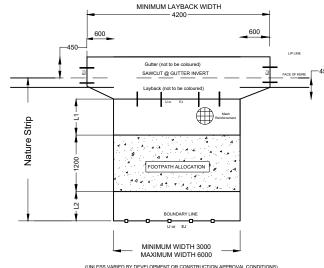
NATURE STRIP WIDTH in mm	L1	L2
2740	790	300
3050	1100	300
3350	1400	300
3660	1400	610
4570	1400	1520

STANDARD RESIDENTIAL DRIVEWAY AND FOOTPATH CROSSINGS WITH WINGS



(UNLESS VARIED BY DEVELOPMENT OR CONSTRUCTION APPROVAL CONDITIONS

STANDARD RESIDENTIAL DRIVEWAY AND FOOTPATH CROSSINGS WITHOUT WINGS



(UNLESS VARIED BY DEVELOPMENT OR CONSTRUCTION APPROVAL CONDITIONS

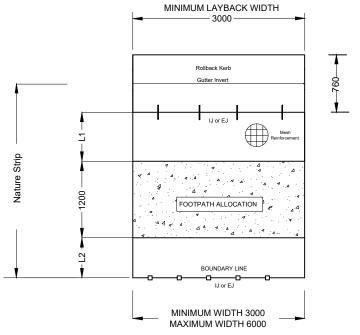
NOTES:

- A ROAD OPENING PERMIT UNDER SECTION 138 OF THE ROADS ACT MUST BE OBTAINED FROM COUNCIL. SEEK APPROVAL OF LOCATION AND LEVELS PRIOR TO EXCAVATION.
- 2. DRIVEWAY THICKNESS IS TO BE A MINIMUM 150mm SL72 STEEL MESH REINFORCED. INDUSTRIAL AND COMMERCIAL CROSSINGS MUST BE ENGINEER DESIGNED FOR EXPECTED TRAFFIC LOADS.
- 3. FOOTPATH SECTION TO VARY WHERE NECESSARY TO MATCH NEW DRIVEWAY. EARTHWORKS ADJOINING CONCRETE MUST BE WELL COMPACTED AND WITHOUT TRIP HAZARDS
- 4. CONCRETE SURFACE TOLERANCE TO BE $\pm 5 \text{mm}$ OVER 3 m SECTIONS
- 5. CONCRETE N25 IN ACCORDANCE WITH AS1379 & AS3600
- 6. REINFORCEMENT MESH TO AS1304, 50mm TOP AND EDGE COVER, LAP MESH 250mm
- 7. EXPANSION JOINTS TO BE 10mm THICK, FULL DEPTH CLOSED CELL CROSS LINKED POLYETHYLENE FOAM (150kg/m), INSTALLATION TO MANUFACTURERS INSTRUCTIONS. EXPANSION JOINTS TO BE DOWELED. SEE PAGE 1 FOR TYPICAL DOWEL DETAIL.
- 8. AFTER EXCAVATION FOR DRIVEWAY HAS BEEN CARRIED OUT ALL SOFT, YIELDING OR OTHER UNSUITABLE AREAS OF SUBGRADE MUST BE REPLACED WITH SOUND MATERIAL AND COMPACTED.
- 9. FOR RESIDENTIAL DRIVEWAYS A MINIMUM OF 50mm COMPACTED ROAD BASE LAYER IS TO BE PROVIDED. FOR INDUSTRIAL, COMMERCIAL AND DEVELOPMENTS WITH HIGH TRAFFIC LOADS, BASE AND DRIVEWAY IS TO BE ENGINEER DESIGNED.
- 10. WHERE CONSTRUCTING DRIVEWAY/LAYBACK INTO EXISTING KERB, THE FOLLOWING DETAILS ARE TO BE ADHERED TO
 SAW CUT IS TO BE CARRIED OUT AT INVERT OF GUTTER & AT BOTH ENDS OF LAYBACK WIDTH ACROSS KERB
 SAW CUT IS TO BE CARRIED OUT THROUGH DEPTH OF CONCRETE
 EXISTING KERB (BARRIER & MOUNTABLE) IS TO BE REMOVED

 - REPLACEMENT KERB TO HAVE DOWELLED EXPANSION JOINT AT EITHER END LAYBACK MUST BE CONSTRUCTED OF PLAIN CONCRETE

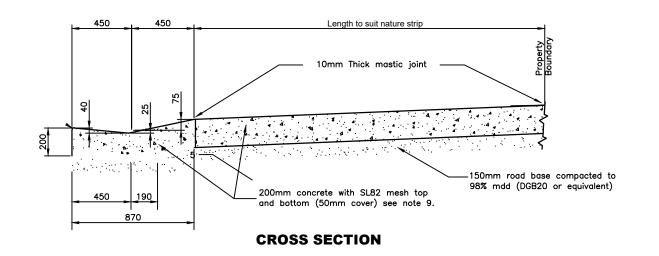
 - RESTORE ANY DAMAGED BITUMEN.
- 11. LIP BETWEEN EDGE OF LAYBACK AND THE GUTTER OPTIONAL, MAX 35mm
- 12. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE

STANDARD RESIDENTIAL DRIVEWAY AND FOOTPATH CROSSINGS - ROLL TYPE KERB



(UNLESS VARIED BY DEVELOPMENT OR CONSTRUCTION APPROVAL CONDITIONS)

SCALES	LIST OF REVISIONS REV. DATE OFFICER	1	APPROVED - Manager Technical Se	rvices	LOCATIONS SER	VICES LEGEND Gas: G	.11	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE	PLAN DETAILS	FILE:	REVISION
SURVEYED OFFICER: DATE: SURVEY MARKS:	A 39120219 BH B 17080021 PW		DESIGNED: Edith Lume DATE: 14/12/2021 DRAWN: Edith Lume DATE: 14/12/2021	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	Electricity	Shellharbour		SCC STANDARD DRAWING VEHICLE CROSSING - RESIDENTIAL	PLAN No: ASD 201	SHEET:



APPROVED - Manager Technical Services

DESIGNED: Edith Lume

14/12/2021

Edith Lume

SEDIMENT AND EROSION CONTROL

SCALES

LIST OF REVISIONS

REV. DATE OFFICER

AMENDMENT DETAILS

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. Width of crossing as approved by Council to suit turning movement.
- 6. Provision for services under slab to be investigated prior to construction.
- 7. Provide expansion joints at connections to kerbs and ramps.
- A Road Opening Permit under Section 138 of the Roads Act must be obtained from Council. Seek approval of location and levels prior to excavation.

LEGEND

PLAN DETAILS

SCC STANDARD DRAWING

VEHICLE CROSSING - INDUSTRIAL

- IJ Isolation Joint
- EJ Expansion Joint

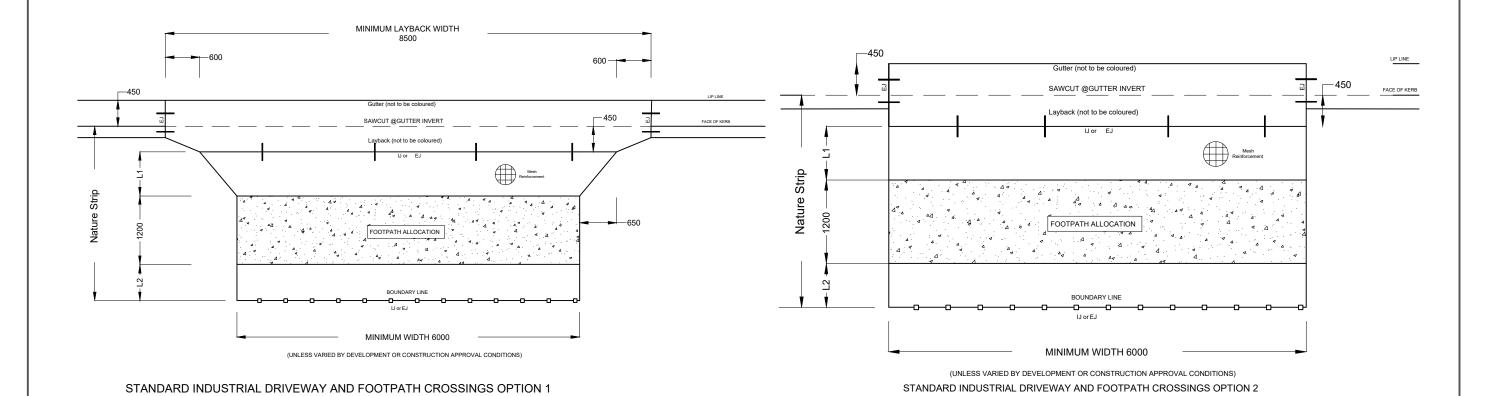
NATURE STRIP WIDTH	L1	L2
2740	790	300
3050	1100	300
3350	1400	300
3660	1400	610
4570	1400	1520
5490	1400	2440
6100	1400	3050

В

SHEET:

PLAN No:

ASD 202



ADMINISTRATION CENTRE

ADMINISTRATION CENTRE
SHELLHARBOUR CIVIC CENTRE
76 CYGNET AVENUE
(Cnr Cygnet & College Avenue)

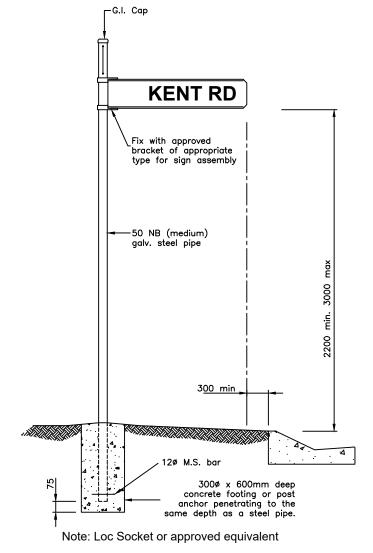
PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE

POSTAL ADDRESS Locked Bag 155 HARBOUR CITY CENTRE NSW 2529

SERVICES

LEGEND

Shellharbour CITYCOUNCIL

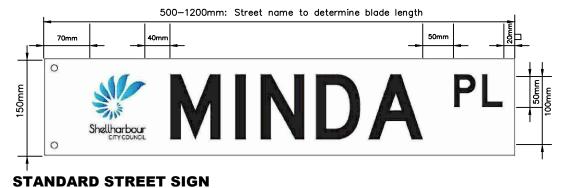


Optional Positioning

LOCATION OF SIGNS

NOTES

- Lettering for street name to be standard road sign lettering, as set out in AS AS 1744.
- Street blades 500mm up to 800mm to utilise series D font. All signs that exceed 800mm to utilise series C font as set out in AS 1744 with appropriate letter spacing.
- 3. Dimensions, legend, background as per requirements of AS 1742.5, AS 1743 and AS 1744.
- Legend to be 100% opacity Black.
- Background Class 1 White retroflective sheeting of that class as defined by in AS/NZ 1906.1.
- Signs up to 1200mm in length to be constructed from 150mm x 6mm Aluminium sheet.
- Double direction top mounted street blade to be constructed from Extruded "I" beam Aluminium.
- Sign to minimum length 500mm and a maximum length of 1200mm as set out in AS 1742.5.
- 9. Holes on sign to match 1-way (AL15 150mm) street blade mounting bracket.
- 10. Logo as per supplied.
- 11. Logo to be placed as per detail drawing and in conjunction AS 1742.5 with Appendix B. Located at support end, both sides. **Note:** lettering to be done as per general requirements and only include the logo if street name can be maintained with max sign length.
- 12. Bracket end to logo 70mm, between logo to street name 40mm, street name to sign end 20mm.
- 13. Street type abbreviation size to be half height as per AS1742.5.

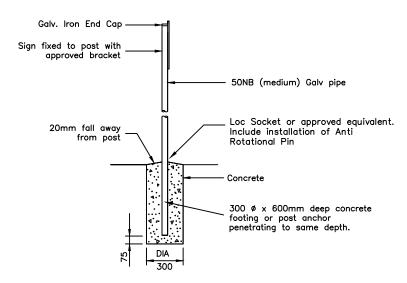


ELEVATION



DOUBLE DIRECTION TOP MOUNT SIGN

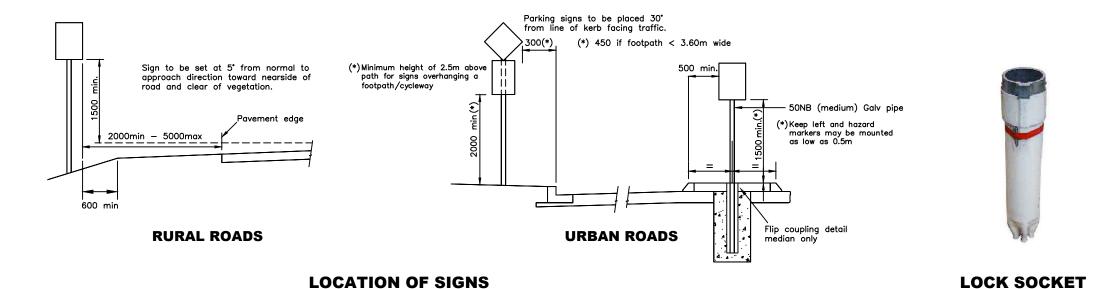
SCALES	LIST OF REVISIONS REV. DATE OFFICER	APPROVED - Manager Technical Se	ervices	LOCATIONS	VICES LEGEND Gas: ———————————————————————————————————	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE	PLAN DETAILS	FILE:	REVISION
SURVEYED OFFICER: DATE: SURVEY MARKS:	A. 39132019 BH. B 17692021 PW	DESIGNED: Edith Lume DATE: 14/12/2021 DRAWN: Edith Lume DATE: 14/12/2021	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the succession of the control guide by the NSW Office Environment & Heritage	Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	Electricity:	76 CYGNET AVENUE (Chr Cygnet & Coilege Avenue) POSTAL ADDRESS Locked Bag 155 Shellharbour CITY COUNCIL FAX: (02) 4221 6111 FAX: (02) 4221 6112 DX26402 3421 6016 DX26402 34ELLIARBOUR CITY CENTRE	STANDARD STREET SIGN INSTALLATION	PLAN No: ASD 203	SHEET:



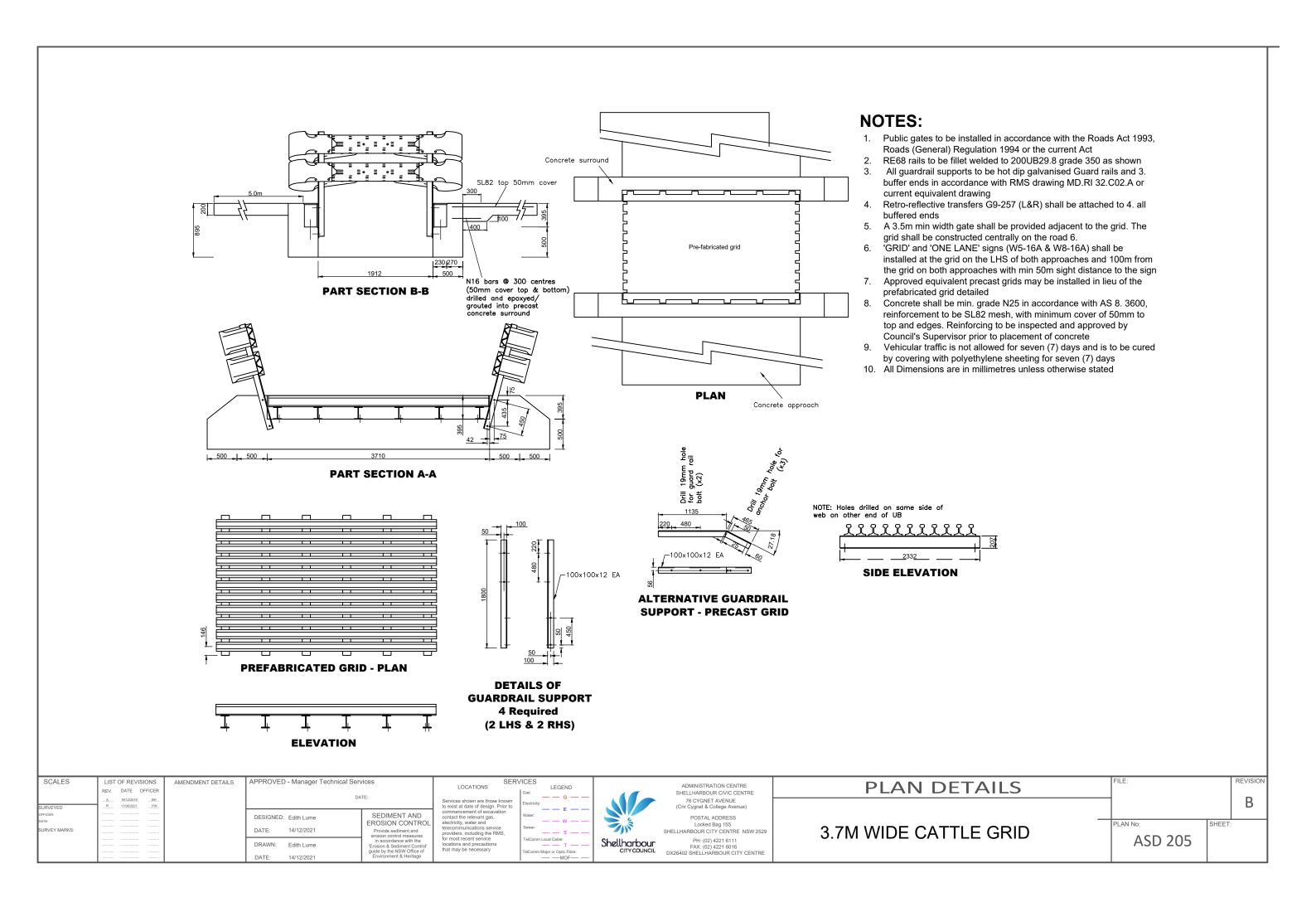
TYPICAL SIGN & FOOTING DETAIL (RURAL & URBAN ROADS)

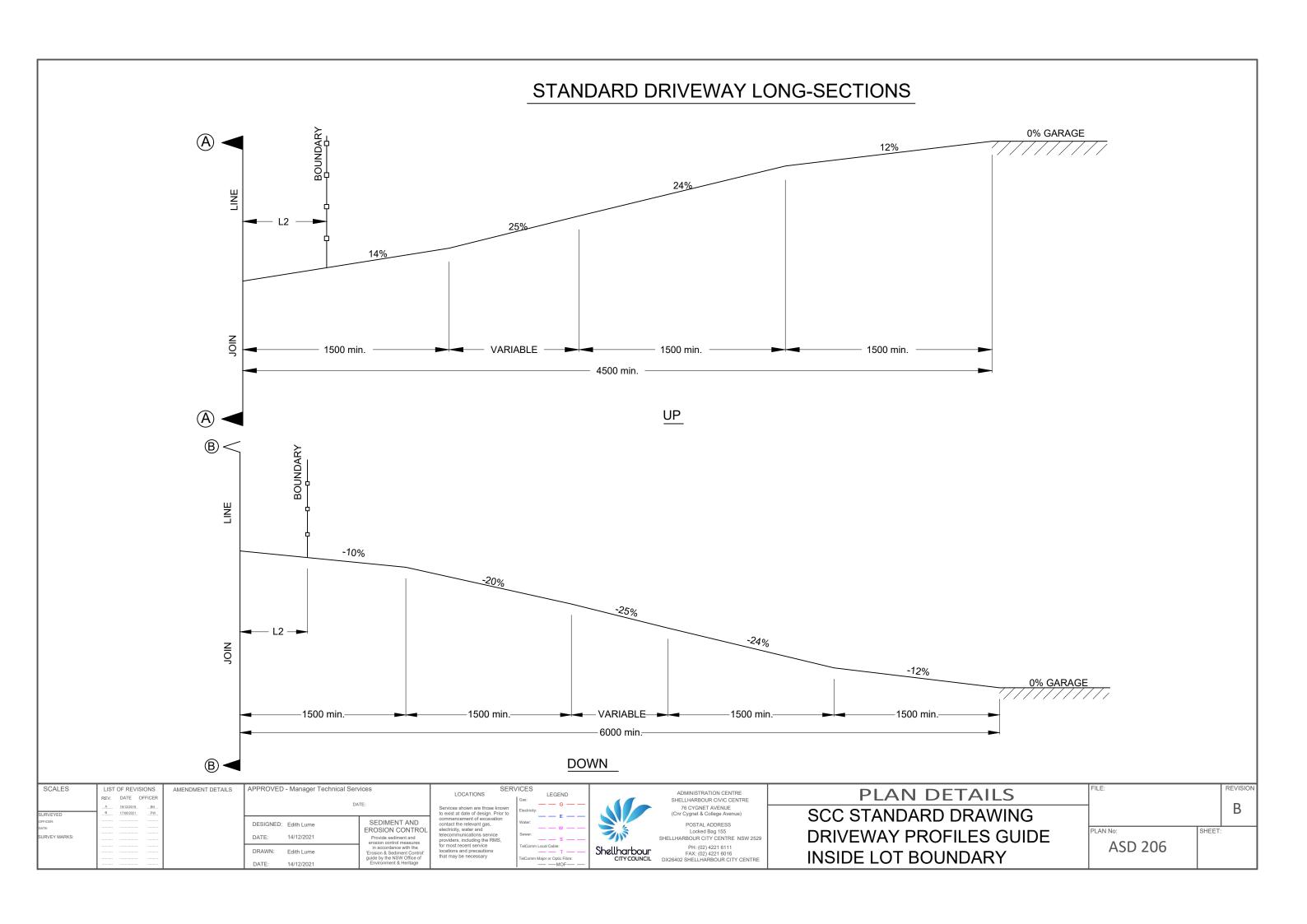
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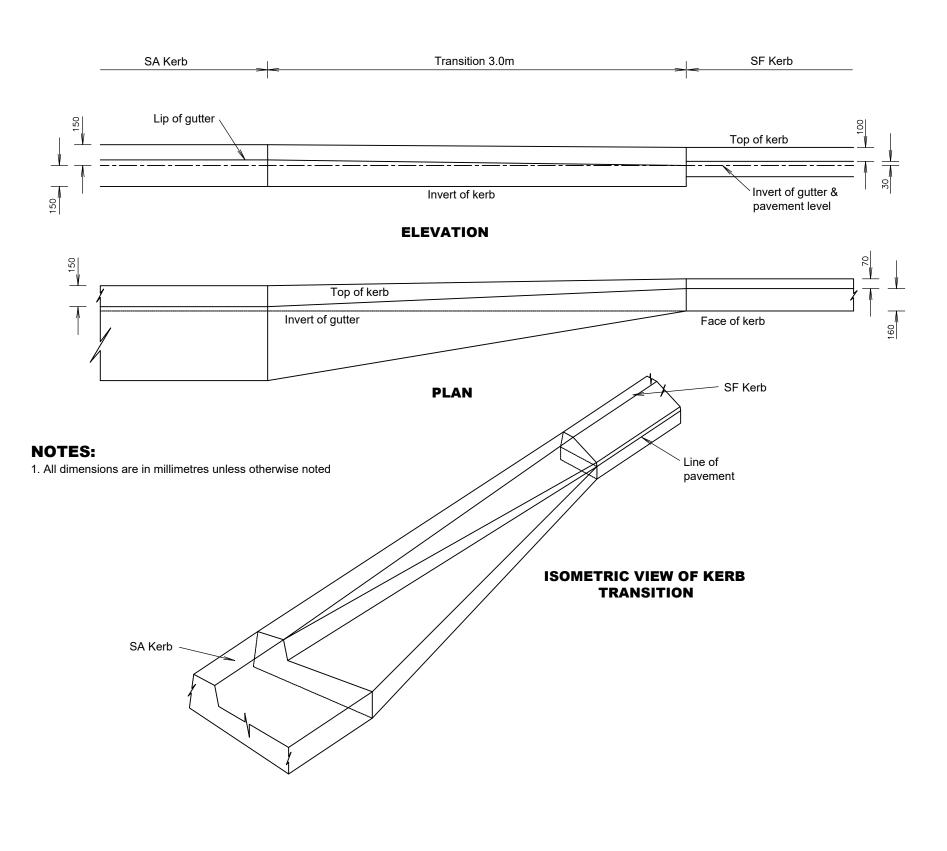
- All signs to be reflectorised Class 1 to AS1743 unless noted otherwise.
- All signs and sign post anchoring details are to be approved by Council prior to erection.
- All signs shall be in accordance with the AS1742 Manual of Uniform Traffic Control Devices be adopted.
- 4. Signs shall be aluminium alloy not less than 2mm thick to AS 2848.
- 5. Equivalent couplings of similar purpose may be used subject to Council approval.
- 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.



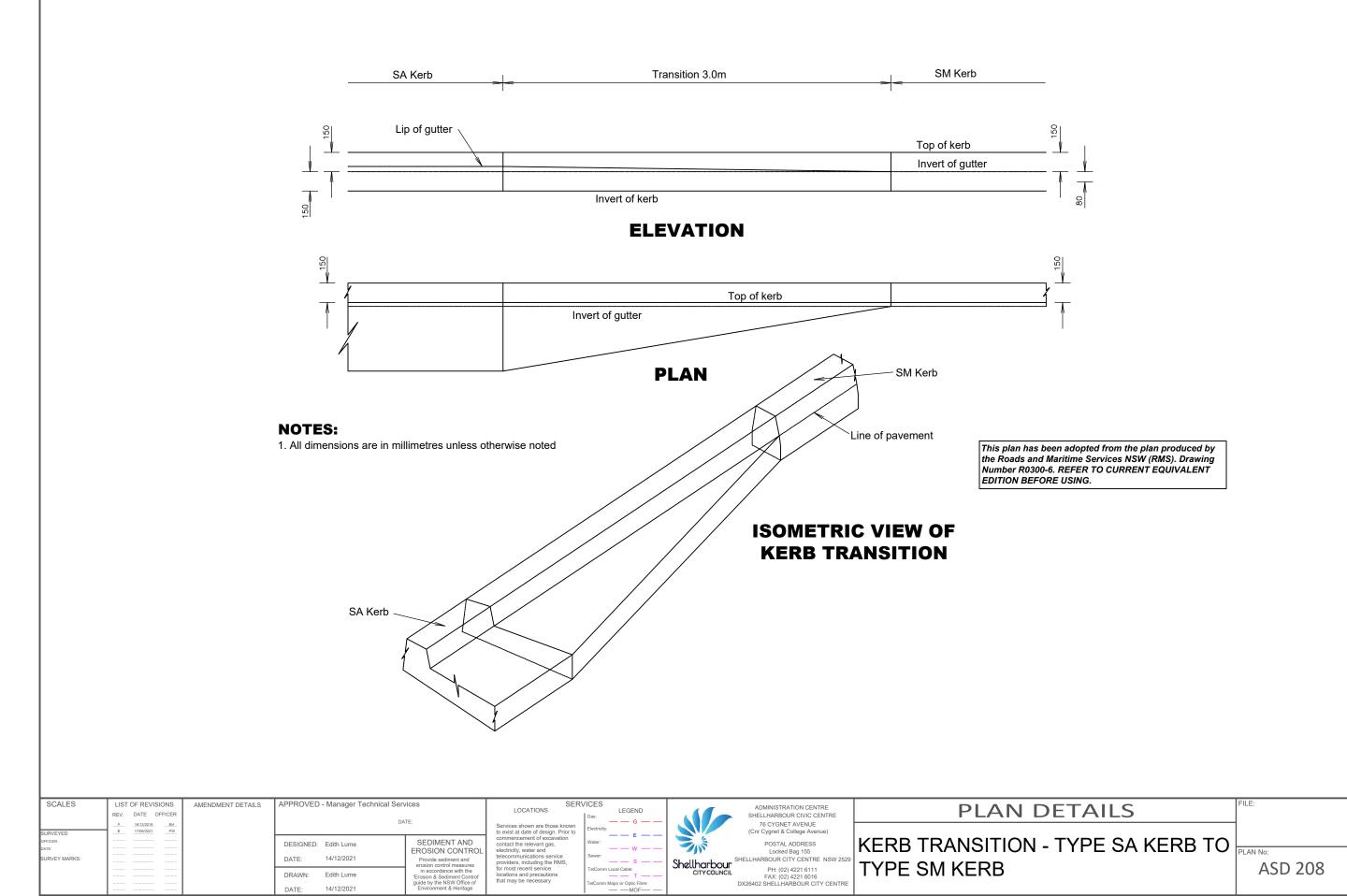
SCALES APPROVED - Manager Technical Services **SERVICES PLAN DETAILS** ADMINISTRATION CENTRE LOCATIONS LEGEND SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE r Cygnet & College Avenue) В SEDIMENT AND DESIGNED: Edith Lume POSTAL ADDRESS STANDARD RURAL SIGN Locked Bag 155
SHELLHARBOUR CITY CENTRE NSW 2529 PLAN No: **EROSION CONTROL** SHEET: 114/12/2021 **INSTALLATION ASD 204** Shellharbour DRAWN: Edith Lume







SCALES	REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Technical Se	ervices	LOCATIONS	RVICES LEGEND Gas: — — G — —	1110	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE	PLAN DETAILS	FILE:	REVISION
SURVEYED OFFICER: DATE: SURVEY MARKS:	A 1912/2019 BH B 1706/2021 PW		DESIGNED: Edith Lume DATE: 14/12/2021 DRAWN: Edith Lume DATE: 14/12/2021	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion A Sediment Control' guide by the NSW Office of Environment & Heritage	Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	Electricity:	Shellharbour	CHELLIA DROUD OUTVOENTDE NOW 0500	KERB TRANSITION - TYPE SA KERB TO TYPE SF KERB	PLAN No: ASD 207	SHEET:



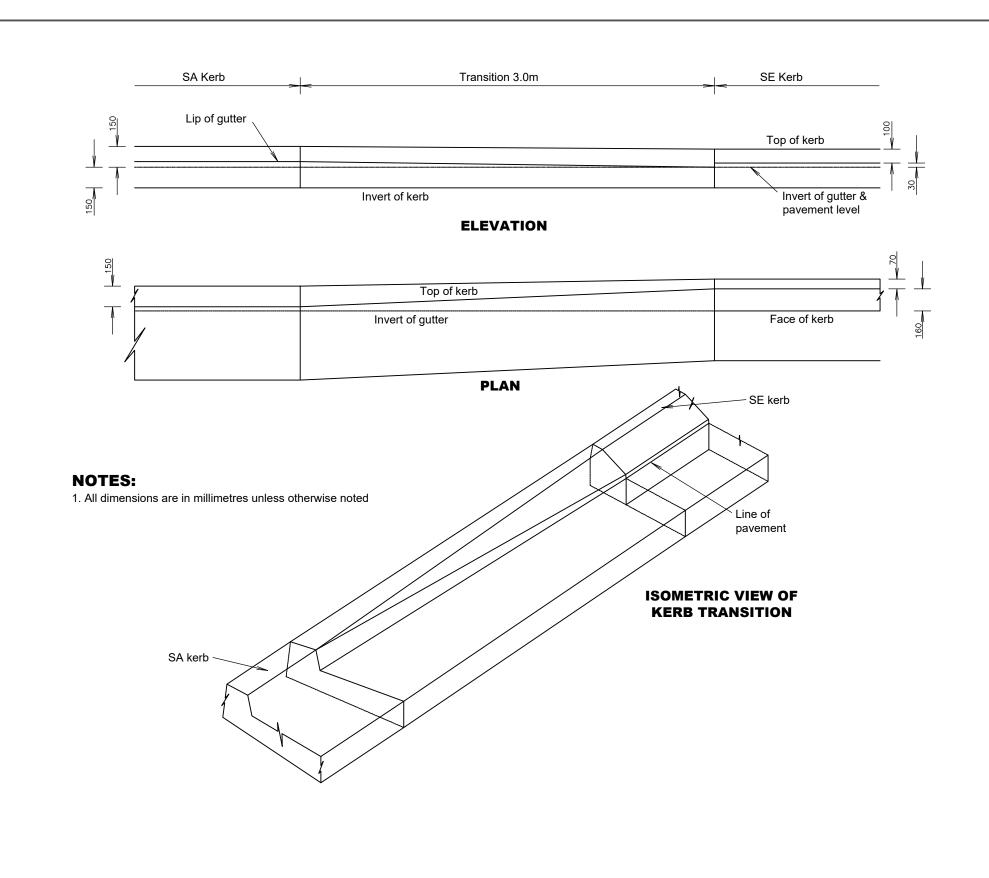
DRAWN:

Edith Lume

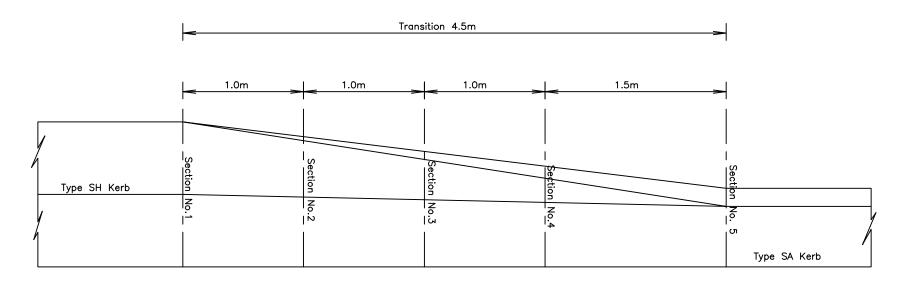
PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRI

SHEET:

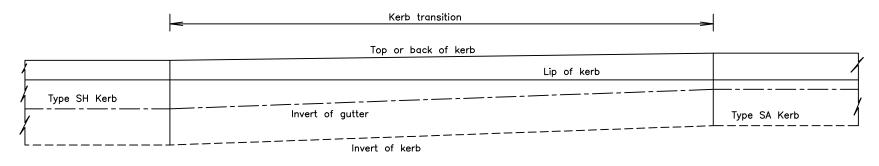
ASD 208



SCALES	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Technical Services	SERVICES LOCATIONS LEGEND Gas: ————————————————————————————————————	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE	PLAN DETAILS	FILE:	REVISION
SURVEYED OFFICER: DATE: SURVEY MARKS:	A 1912/2019 BH B 1706/2021 PW		DESIGNED: Edith Lume	Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions even the most recent service locations and precautions even the providers and precautions the providers are the providers and precautions the providers and precautions the providers are the providers and precautions the providers are the providers and precautions the providers are the providers and providers and providers and providers and providers are the providers and providers and providers and providers are the providers and providers a	POSTAL ADDRESS Locked Bag 155	KERB TRANSITION - TYPE SA KERB TO TYPE SE KERB	PLAN No: ASD 209	SHEET:



PLAN

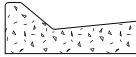


ELEVATION

This plan has been adopted from the plan produced by the Roads and Maritime Services NSW (RMS). Drawing Number R0300-09. REFER TO CURRENT EQUIVALENT EDITION BEFORE USING.



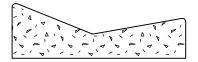
SECTION 5



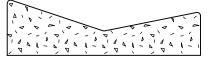
SECTION 4



SECTION 3

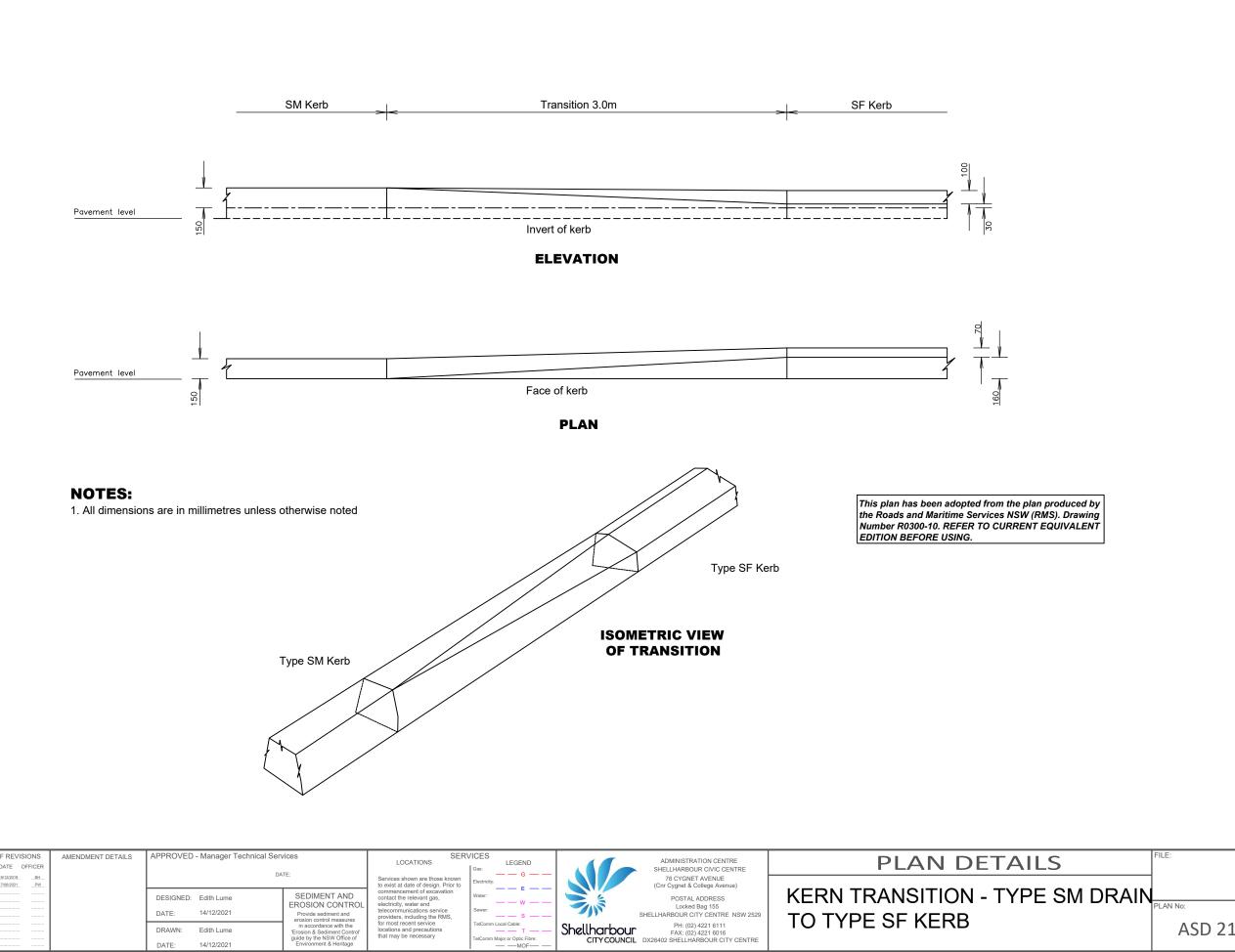


SECTION 2



SECTION 1

SCALES	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Technical Se	ervices	LOCATIONS	RVICES LEGEND Gas:		STRATION CENTRE RBOUR CIVIC CENTRE	PLAN DETAILS	FILE:	REVIS	3ION
SURVEYED OFFICER: DATE: SURVEY MARKS:	B 17709/2021 PW		DESIGNED: Edith Lume DATE: 14/12/2021 DRAWN: Edith Lume DATE: 14/12/2021	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	Electricity:	Shellharbour CITY COUNCIL SHELLHARBOU	GNET AVENUE et & College Avenue) STAL ADDRESS locked Bag 155 JR CITY CENTRE NSW 2529 E. (02) 4221 6111 E. (02) 4221 6016 LLHARBOUR CITY CENTRE	KERB TRANSITION - TYPE SH DRAIN TO TYPE SA KERB	PLAN NO: ASD 210	SHEET:	



Shellharbour PH: (02) 4221 6111
FAX: (02) 4221 6016
CITY COUNCIL DX26402 SHELLHARBOUR CITY CENTRE

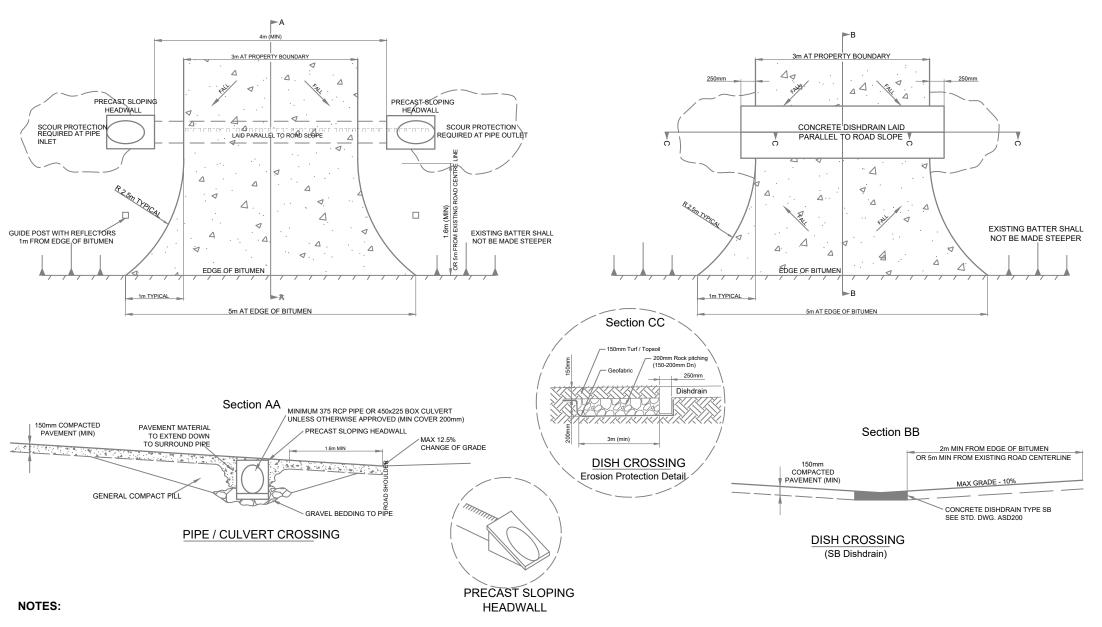
DRAWN:

Edith Lume

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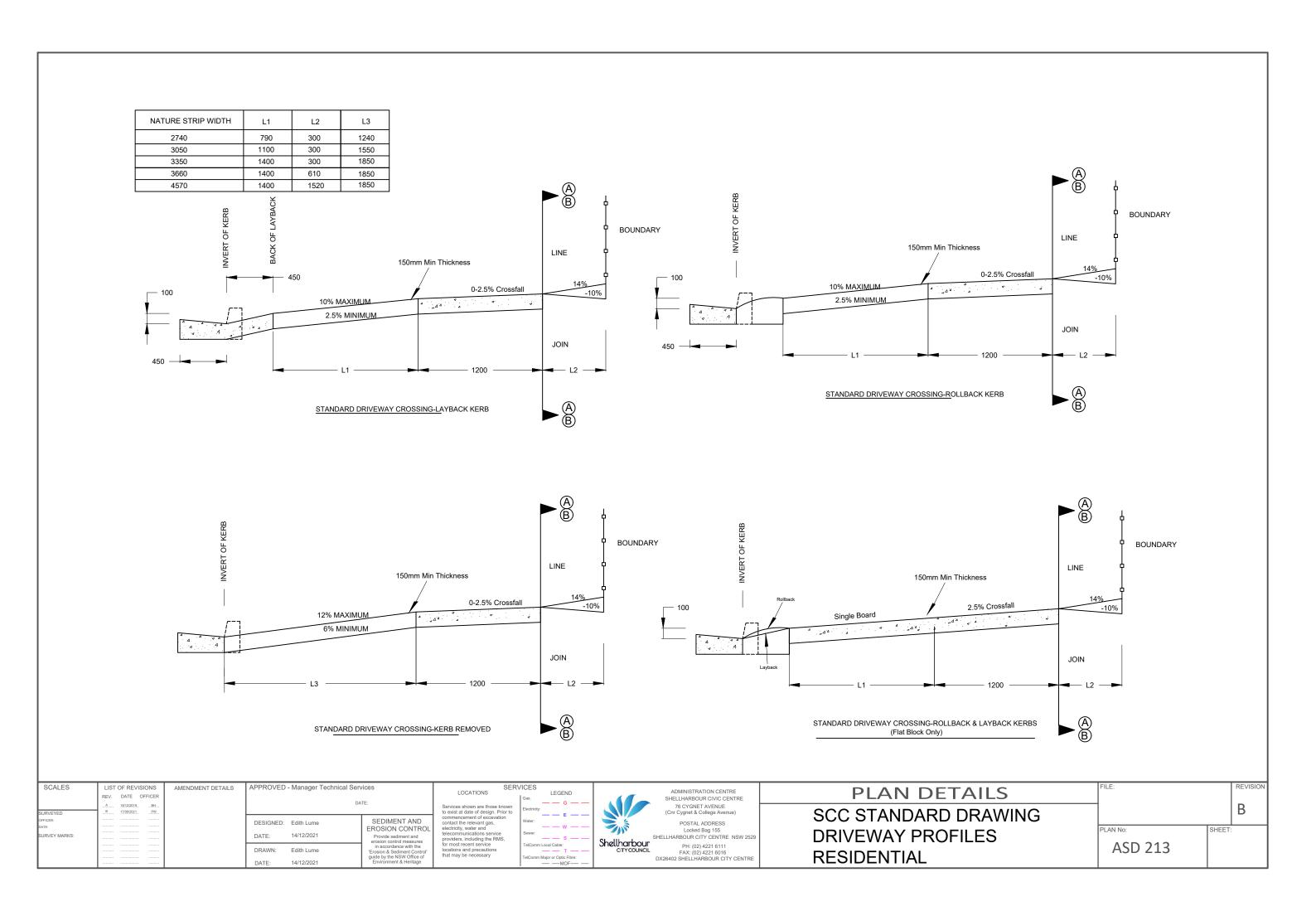
SHEET:

ASD 211

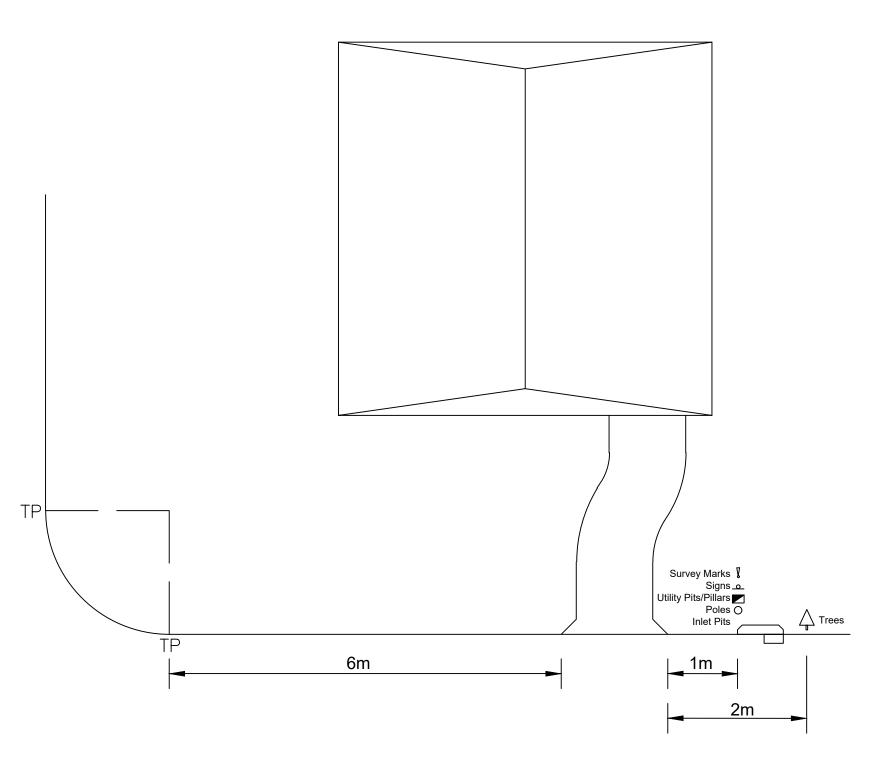


- 1. Maximum desirable longitudinal grade of 12%. Private access roads with longitudinal grade greater than 15% are to be sealed. Absolute maximum permissible grade is 25%.
- 2. Where the existing road is sealed the driveway is to be sealed to a minimum 3m within the property boundary.
- 3. For driveway 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.
- 8. Use appropriate pipe class for the situation

SCALES	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Technical Ser	rvices DATE:	LOCATIONS	VICES LEGEND Gas:	11/0	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE	PLAN DETAILS	FILE:	REVISION
SURVEYED OFFICER: DATE: SURVEY MARKS:	B 177092021 PW		DESIGNED: Edith Lume DATE: 14/12/2021 DRAWN: Edith Lume DATE: 14/12/2021	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	Electricity:	Shellharbour CITY COUNCIL	76 CYGNET AVENUE (Chr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	RURAL DRIVEWAY CONSTRUCTION DETAILS	PLAN No: ASD 212	SHEET:



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



SCALES	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Technica	Services DATE:	LOCATIONS	RVICES LEGEND Gas: — G — —		ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE	PLAN DETAILS	FILE:	REVISION
SURVEYED OFFICER:	A 19/12/2019 BH B 17/06/2021 PW		DESIGNED: Edith Lume	SEDIMENT AND	Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas.	Electricity: E — E — Water:		76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS	SCC STANDARD DRAWING		В
DATE: SURVEY MARKS:			DATE: 14/12/2021	EROSION CONTROL Provide sediment and erosion control measures	electricity, water and telecommunications service providers, including the RMS, for most recent service	W Sewer: S		Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529	DRIVEWAY LOCATION ON	PLAN No:	SHEET:
			DRAWN: Edith Lume DATE: 14/12/2021	in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	locations and precautions	TelComm Local Cable: — T — T TelComm Major or Optic Fibre: — MOF— —	Shellharbou citycounc	PH: (02) 4221 6111 FAX: (02) 4221 6016 L DX26402 SHELLHARBOUR CITY CENTRE	CORNERS	ASD 214	