

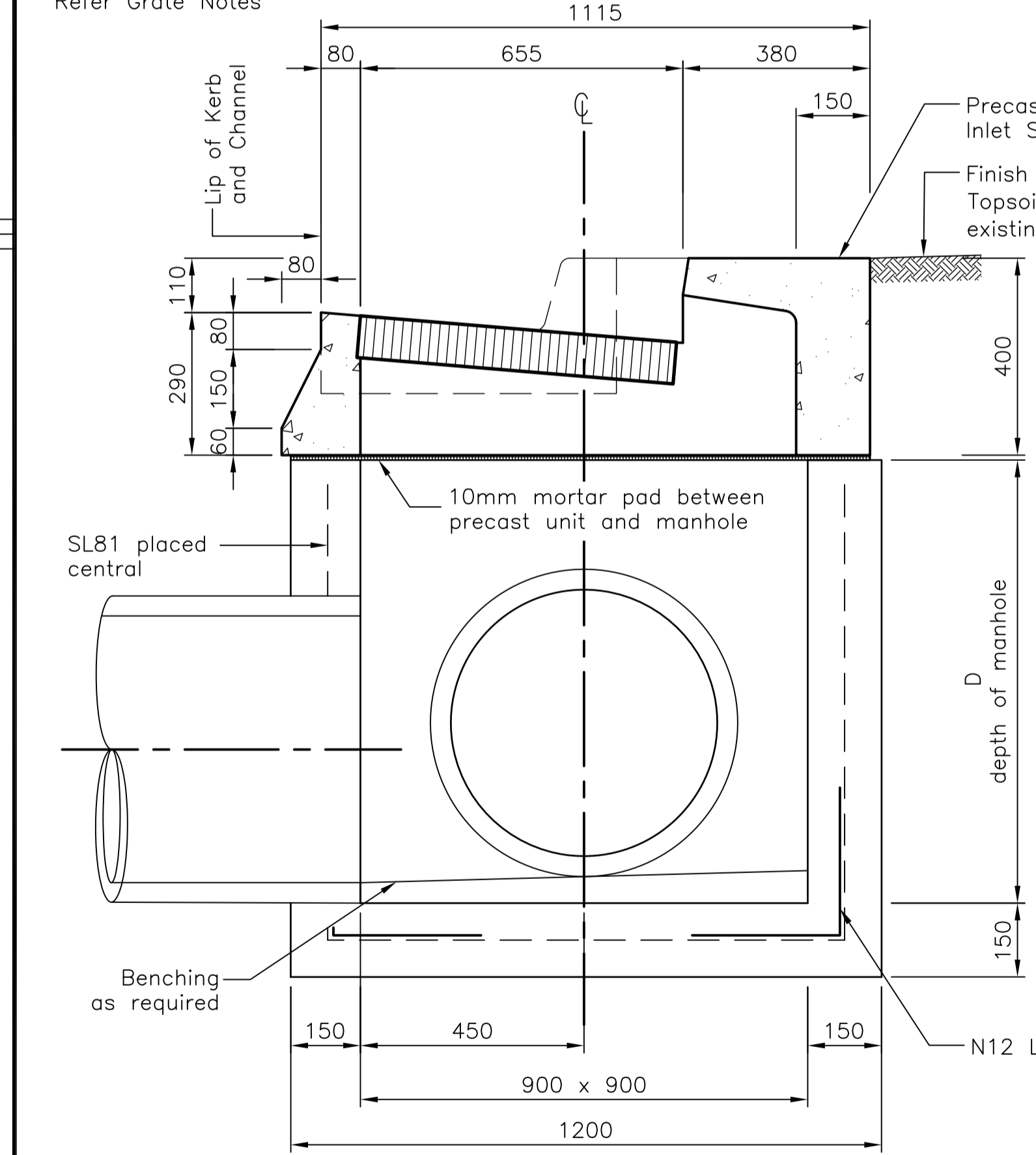
Where Inlet in sag Kerb Transition 1500mm L&R

All precast lintels shall be pre-stamped with the message "DUMP NO WASTE - FLOWS TO CREEK". Orientation of message to read from the footpath.

PLAN VIEW

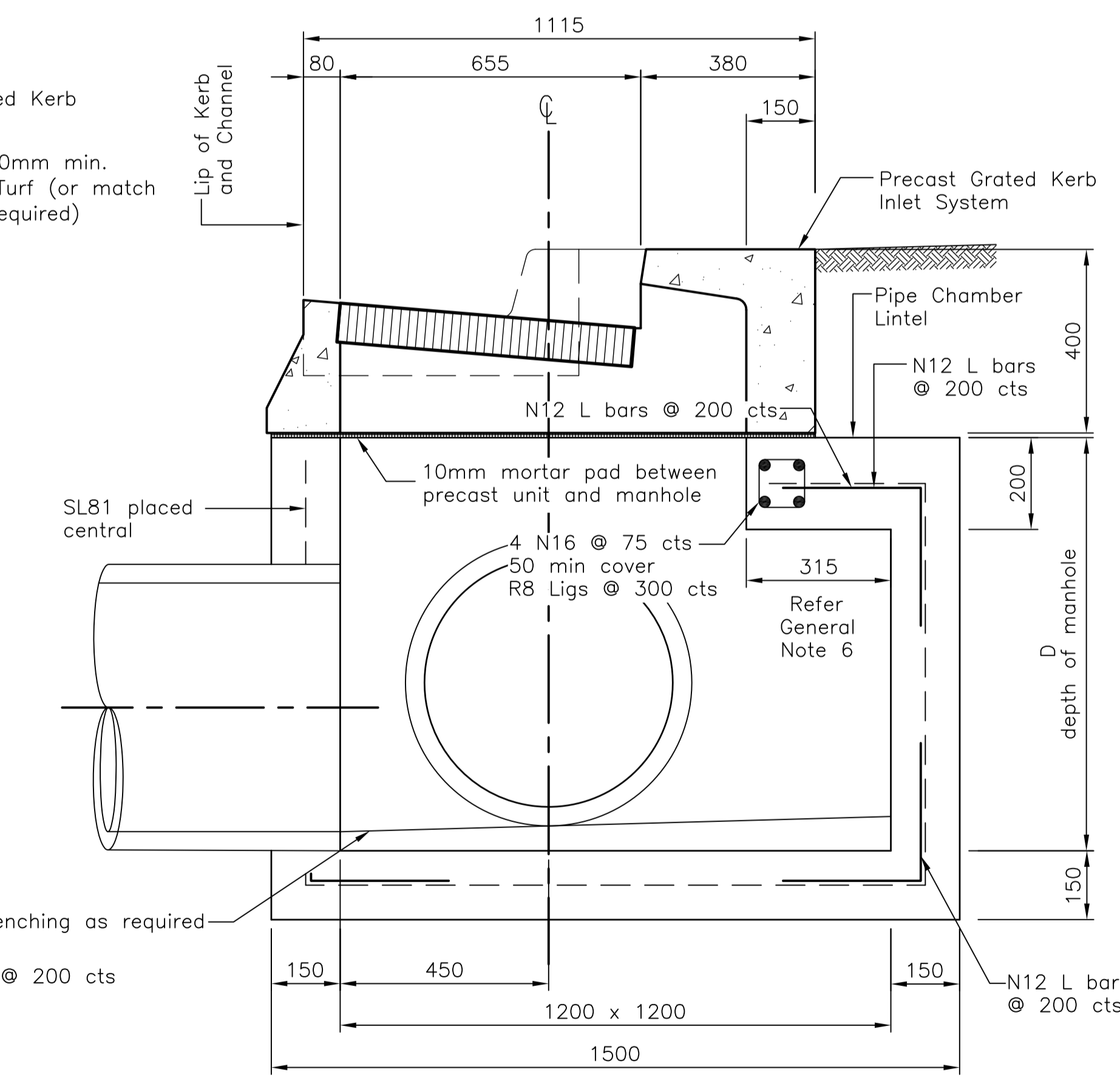
PRECAST GRATED KERB INLET TYPE 2400R SHOWN

Gully grate to be hinged, Class D, and Bike Safe in all directions Refer Grate Notes



SECTION A MANHOLE TYPE 1

Where D is less than 1200mm FOR PIPES UP TO 750mm INTERNAL DIAMETER (for box culverts up to 750mm internal width)



SECTION A MANHOLE TYPE 2

Where D is greater than or equal to 1200mm FOR PIPES UP TO 1050mm INTERNAL DIAMETER (for box culverts up to 900mm internal width)

INLET PIT CONFIGURATION

COMBINATION TYPE	CONFIGURATION	LINTEL LENGTH
1200C		L = 1200mm
2400C		L = 2400mm
2400R		
2400L		
3600C		L = 3600mm
3600R		
3600L		

GENERAL NOTES

- All dimensions are in millimetres unless noted otherwise.
- Refer Standard Drawing SD-205 for standard manhole details.
- Exposure Classification B1. This drawing does not apply to exposure classifications more severe than B1.
- Where manhole depth is greater than 3500mm and/or internal dimensions are greater than 1500mm, the manhole walls and slab top shall be independently designed by the RPEQ Engineer.
- Where the manhole top opening is greater than 1200mm x 1200mm, the slab top shall be independently designed by the RPEQ Engineer.
- Where pipe chamber lintel is greater than 315mm, lintel shall be independently designed by the RPEQ Engineer.
- Refer to project drawings for location of manhole, design levels, grades of pipes, and grades of kerb and channel.

CONCRETE NOTES

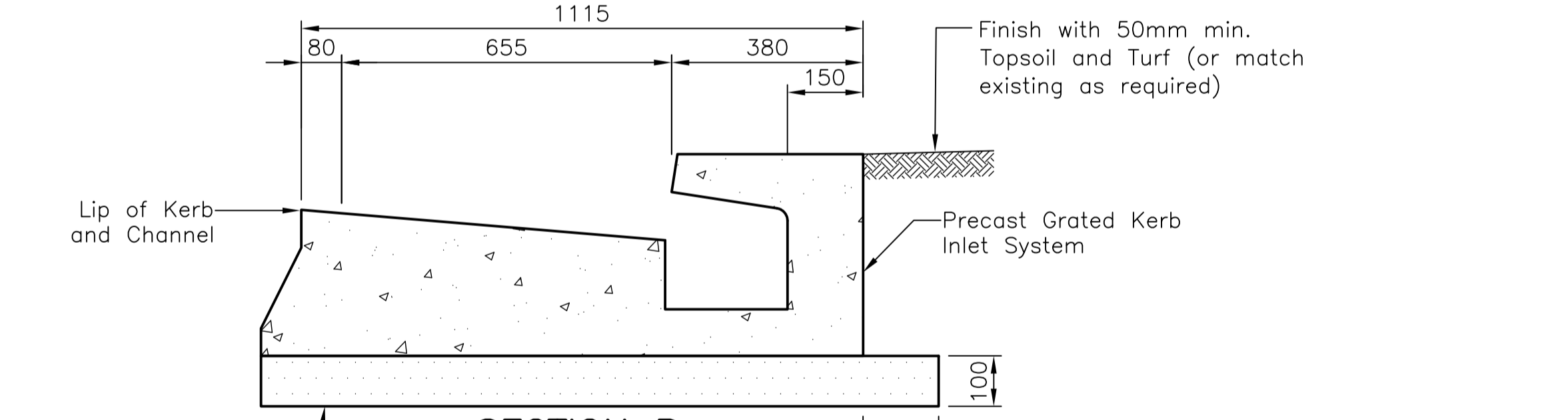
- All concrete to be in accordance with AS 1379 and AS 3600.
- Concrete for walls and base:
 - S32 Standard
 - S50 Aggressive Environments
- Concrete for precast slab top S32 min.
- Formwork in accordance with AS 3610.
- Design loads as per Austroads Bridge Code:
 - W7 wheel load
 - Dynamic factor 0.4
- All concrete shall be mechanically vibrated. Hand held vibrators must be held upright. Concrete must not be spread using vibrator.
- Mass concrete benching shall be formed as directed by the RPEQ Engineer.
- Kerb and channel infill and transition sections to be constructed after completion of adjacent standard kerb and channel, manhole, top and troughs. Infill and transition sections to be formed as necessary to match faces and edges of completed work.

REINFORCEMENT NOTES

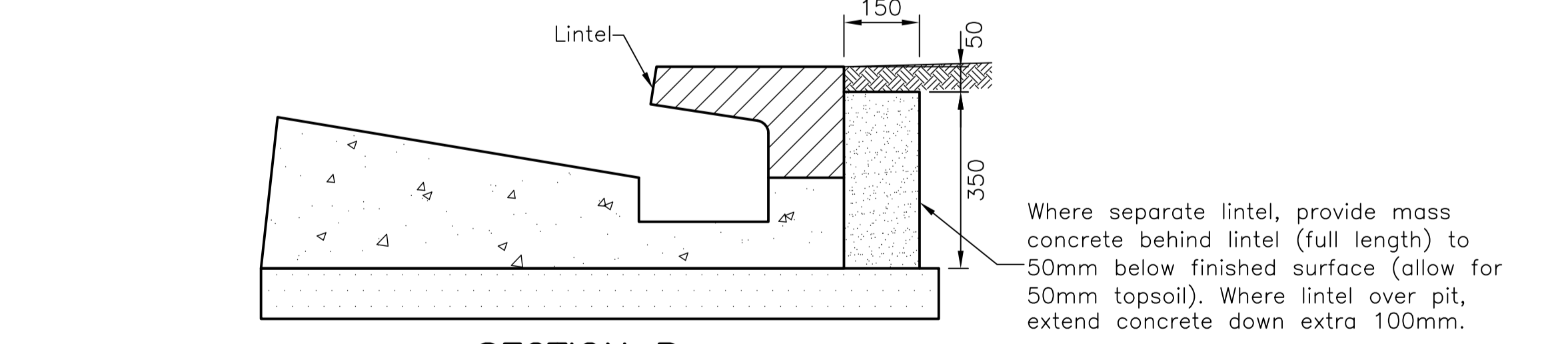
- Fabric - grade 500 to AS 1304.
- Bars - grade 500 to AS 1302.
- Laps in reinforcement unless noted otherwise:
 - N12 - 300mm
 - N16 - 400mm
 - Fabric - overlap 2 transverse wires
- Minimum cover to reinforcing steel:
 - 50mm Standard
 - 70mm Aggressive Environments
- Cog length = 150mm
- Wall reinforcing at pipe entries to be cut and/or bent around openings as approved by the Engineer.
- All reinforcing steel to be held rigidly together, either by welding or tying, prior to placing concrete.
- All wire to be hard drawn wire.
- Starter bars in base slab shall be hot dipped galvanised.
- Reinforcement in manholes shall not be replaced with fibre reinforced concrete.

GRATE NOTES

- Grate shall be Grade 300 structural steel to AS 3679.1



SECTION B ONE PIECE ENTRY UNIT



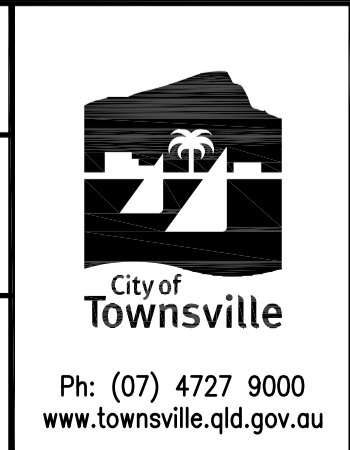
SECTION B TWO PIECE KERB ENTRY UNIT - SEPARATE LINTEL

No.	DATE	DESCRIPTION	AP'D
C	02/02/2012	Two Piece Kerb Entry Unit Added	
B	23/12/2010	Precast Grated Kerb Inlet amended	
A	21/07/2009	Original Issue	
REVISIONS			

NOTES:
Refer drawing SD-205 Stormwater Manhole Details

Full Size A1
Not to scale

DRAWN: DESIGN OFFICE
CHECKED: WJP
Design Engineer Approved: Original signed by J.CLARKE
Date: 7/2/12
Manager Approved: Original signed by J.CLARKE
Date: 7/2/12



PRECAST GRATED KERB INLET SYSTEM & CAST INSITU STORMWATER MANHOLE

STANDARD DRAWING DRAINAGE
SD-200 C