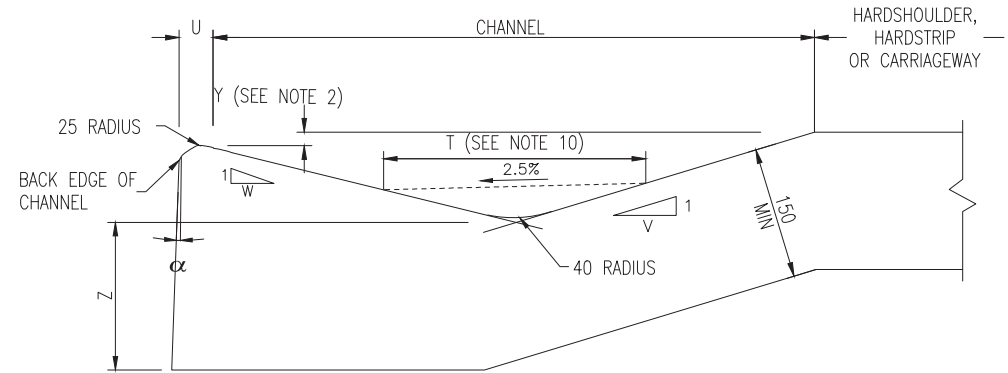


TYPE A

(CHANNEL CAST BEFORE OR AFTER PAVEMENT CONSTRUCTION) (DRAWN TO SUIT VERGE LOCATION)



TYPE B

(CHANNEL CAST IN ONE WITH THE PAVEMENT) (DRAWN TO SUIT CENTRAL RESERVE LOCATION)

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- DIMENSIONS T,U,V,W,X,Y & Z SHALL BE AS DESCRIBED IN APPENDIX 5/3. THE DIMENSION Y IS THE DIFFERENCE IN LEVEL BETWEEN THE BACK EDGE OF THE CHANNEL AND THE LEVEL OF THE CARRIAGEWAY, HARDSHOULDER OR HARDSTRIP ADJACENT TO THE CHANNEL. DIMENSION Y IS +VE WHEN THE CARRIAGEWAY EDGE OF THE CHANNEL IS ABOVE THE VERGE EDGE. DIMENSION Y IS -VE WHEN THE CHANNEL IS BELOW THE VERGE EDGE.
- THE EDGES OF THE CHANNEL SHOULD BE APPROXIMATELY VERTICAL BUT ANGLE α MAY LIE BETWEEN 0° AND 5° FOR EASE OF SLIPFORMING.
- CHANNEL TYPE B SHALL BE USED WHEN THE CARRIAGEWAY AND CHANNEL ARE SLIPFORMED SIMULTANEOUSLY. TYPE B CHANNELS SHALL BE DEEMED A CONTINUATION OF THE CARRIAGEWAY SLAB AND SHALL BE REINFORCED ACCORDINGLY. CONCRETE TO TYPE B CHANNELS SHALL BE AS SPECIFIED FOR THE CARRIAGEWAY SLAB. TYPE B CHANNELS SHALL HAVE TRANSVERSE JOINTS OF THE SAME TYPE AND SPACING AS IN THE CARRIAGEWAY SLAB, SEALED IN ACCORDANCE WITH MCDRW, CLAUSES 1016 AND 1017.
- CONCRETE TO TYPE A CHANNEL SHALL COMPLY WITH MCDRW CLAUSE 1103 AND SHALL BE A DESIGNED MIX, STRENGTH CLASS C28/35 TO IS EN 206-1.
- CONTRACTION JOINTS IN TYPE A CHANNELS SHALL BE SAWN OR WET FORMED. SAWN JOINTS SHALL BE CUT TO A MINIMUM DEPTH OF 25MM BELOW THE CHANNEL INVERT OR TO A MINIMUM DEPTH OF ONE QUARTER OF THE CHANNEL SECTION WHICHEVER IS THE GREATER. WET FORMED JOINTS SHALL BE CUT INTO THE CONCRETE WHILST IT IS STILL PLASTIC WITH A SHARP STEEL TROWEL TO SEPARATE COARSE AGGREGATE PARTICLES OVER NOT LESS THAN TWO THIRDS OF THE CROSS-SECTIONAL AREA AND FINISHED USING A KEELLED TROWEL OR EQUIVALENT TOOL, TO FORM A TAPERED SEALING GROOVE, NOT LESS THAN 13mm IN WIDTH AT THE SURFACE, TAPERING TO NOT LESS THAN 5mm AT A DEPTH OF 25mm.
- THE SPACING OF CONTRACTION JOINTS IN TYPE A CHANNELS SHALL BE 5000mm. WHEN REQUIRED BY MCDRW, CLAUSE 1103, EXPANSION JOINTS SHALL BE FORMED AT SPACINGS NOT EXCEEDING 40000mm IN ACCORDANCE WITH MCDRW, CLAUSE 1009. JOINTS SHALL BE SEALED IN ACCORDANCE WITH MCDRW, CLAUSE 1016 AND 1017.
- SEALING STRIP IS REQUIRED WHEN TYPE A CHANNELS ARE USED WITH RIGID CARRIAGEWAY CONSTRUCTION AND SHALL BE IN ACCORDANCE WITH CLAUSE 1014 OF SRW.
- THE 40mm FLAT SHOWN ON THE EDGE OF THE TYPE A CHANNEL IS INTENDED TO MINIMISE DAMAGE WHEN THE ADJACENT PAVEMENT LAYERS ARE BEING COMPACTED.
- TYPE A AND TYPE B CHANNELS INDICATE PROFILES OF TRIANGULAR SURFACE WATER CHANNELS IN SOLID LINES. BROKEN LINES OF WIDTH T AT CROSSFALL 1:40 DENOTE BASE PROFILE OF TRAPEZOIDAL SURFACE WATER CHANNEL.

NOT TO SCALE

TII PUBLICATION NUMBER: CC-SCD-00522



ROAD CONSTRUCTION
DETAILS

EDGE OF PAVEMENT
DETAILS

P4	03/15
P3	01/09
P2	10/07
Issue	Date

CROSS SECTION OF
CONCRETE SURFACE WATER CHANNEL

Drawing No.

RCD/
500/22