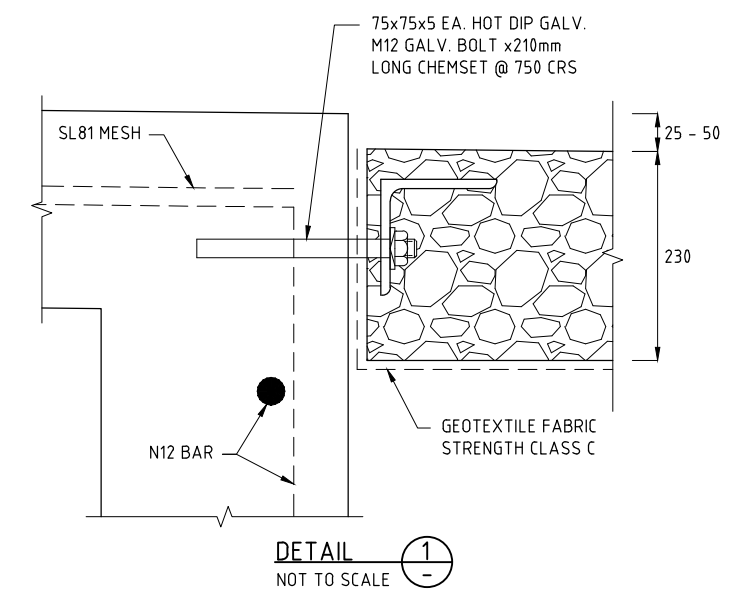
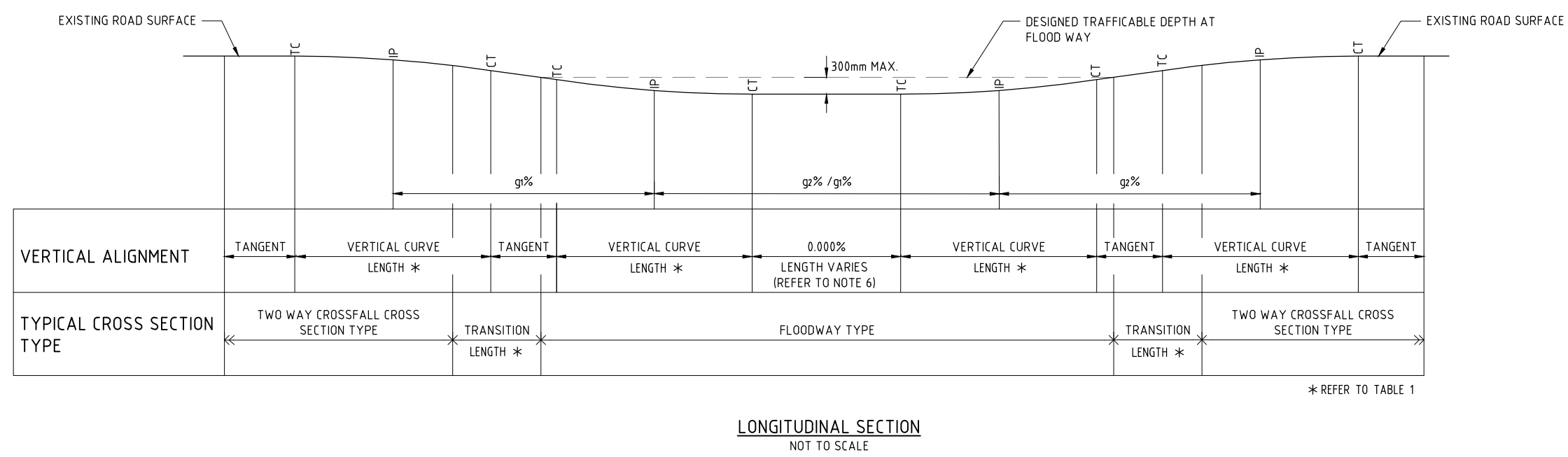
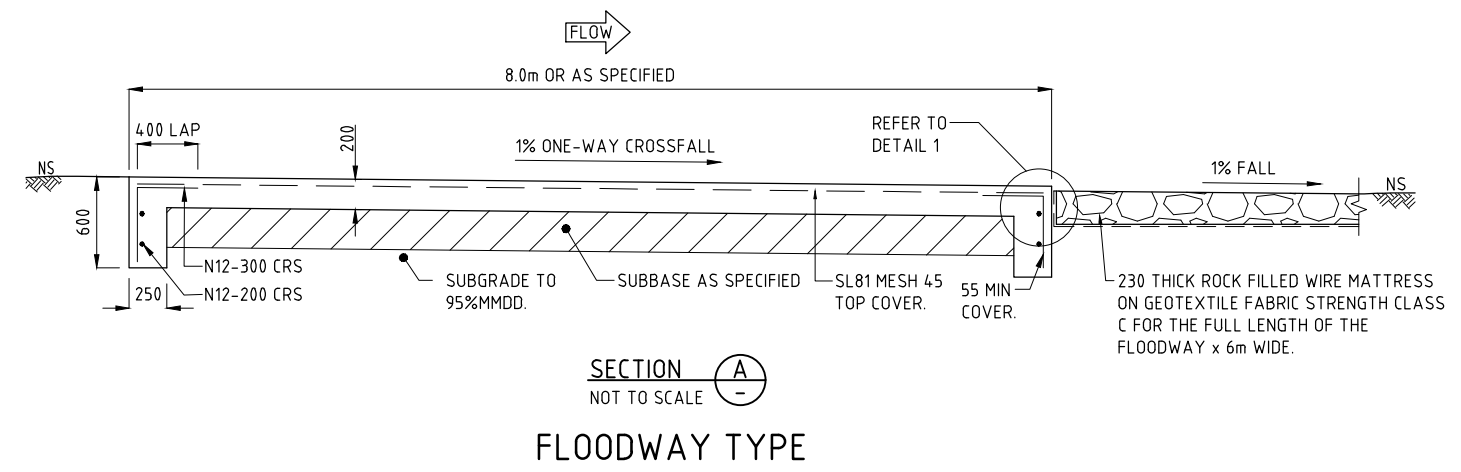


- NOTES:**
1. COMPLY WITH AS 3600-2009 AND AS 1379-2007.
  2. DESIGNED AS B1 EXPOSURE CATEGORY. USE N32 CONCRETE. 45mm TOP COVER AND 55mm SIDE COVER.
  3. VERTICAL CURVES ARE DESIGNED PER AUSTRROAD GUIDE ROAD DESIGN PART 3.
  4. REFER TO TABLE 1 FOR MINIMUM VERTICAL CURVE LENGTH.
  5. AGREE LAYOUT AND DETAILS WITH SUPERINTENDENT ON SITE.
  6. DESIGN LENGTH SHALL BE AS DIRECTED BY THE SUPERINTENDENT.
  7. TURN TABLE DRAINS AWAY FROM FLOODWAY AT LEAST 10m TO 20 m BEFORE FLOODWAY. AGREE DETAILS WITH SUPERINTENDENT.
  8. DO NOT PROVIDE CONSTRUCTION JOINTS OR EXPANSION JOINTS UNLESS OTHERWISE DIRECTED.
  9. CAST SLAB IN ALTERNATING TRANSVERSE STRIPS OF AGREED LENGTH TO ALLOW FOR SOME DRYING SHRINKAGE. ROUGHEN THE TRANSVERSE CONSTRUCTION JOINTS BETWEEN STRIPS BEFORE CASTING ABUTTING STRIP.
  10. PROVIDE FULL TENSILE LAP SPLICE IN MESH AND REINFORCEMENT ACROSS CONSTRUCTION JOINTS.
  11. CONCRETE TO HAVE A ROUGH SURFACE FINISH.
  12. IF FLOODWAY LIES WITHIN A HORIZONTAL CURVE, CONSULT DESIGNERS FOR SUITABLE TREATMENTS.
  13. PROJECT SPECIFIC DETAILS FOR THE VERTICAL ALIGNMENT - CHAINAGES, GRADES AND DESIGN CENTRELINE LEVELS SHOULD BE PREPARED SEPARATELY AND READ IN CONJUNCTION WITH THIS DRAWING.
  14. REFER TO STANDARD DRAWING CS-3100 FOR ALTERNATIVE APRON/PROTECTION DETAILS.
  15. THIS STANDARD DRAWING MAY BE USED FOR MINOR CHANNEL INVERT WITH CONSULTATION.
  16. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  17. PROVIDE ADVANCE WARNING SIGNAGE FOR FLOODWAY AS FOLLOWS:
    - (i) PROVIDE SIGN G9-9, "REDUCE SPEED", 300m PRIOR TO THE START OF THE CONCRETE FLOODWAY EDGE ON BOTH APPROACHES.
    - (ii) PROVIDE SIGN W5-7-1, "FLOODWAY", 300m PRIOR TO THE START OF THE CONCRETE FLOODWAY EDGE ON BOTH APPROACHES.
  18. PROVIDE FLOOD GAUGE POSTS IN ACCORDANCE WITH STANDARD DRAWING CS3501.



**TABLE 1: MINIMUM LENGTH VERTICAL CURVES (m) & STANDARD PAVEMENT CROSSFALL TRANSITION LENGTH**

OPERATING SPEED (km/h)	ALGEBRAIC CHANGE IN GRADE (g <sub>1</sub> %-g <sub>2</sub> %)										LENGTH OF PAVEMENT CROSSFALL TRANSITION TO 1% (m)	
	0.2	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0	3.5	3% TWO-WAY CROSS FALL	4% TWO-WAY CROSS FALL
	40	0	0	0	0	0	20	20	20	20	20	13
50	0	0	0	0	20	20	20	25	30	40	16	20
60	0	0	0	0	20	20	30	40	40	50	19	24
70	0	0	0	20	20	30	40	50	60	79	22	28
80	0	0	0	20	30	40	50	60	80	90	36	44
90	0	0	20	30	30	50	70	80	100	110	40	50
100	0	0	30	30	40	60	80	100	120	140	44	56
110	0	20	30	40	50	70	199	129	140	170	49	61
120	0	20	30	50	60	90	110	140	170	200	53	67



**WARNING**  
BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

DRAWN: J.LEESON  
DATE: AUG 2017  
DESIGNED: G.C.  
DATE: 15 MAR 2005  
DESIGN LEADER: S.HATZI  
DATE: 1/09/2017

CHECKED: S.HATZI  
DATE: AUG 2017  
CHECKED:  
DATE:  
DESIGN DIRECTOR: S.JACKSON  
DATE: 1/09/2017



STANDARD DRAWINGS DRAINAGE		REINFORCED CONCRETE FLOODWAY FOR LOW VOLUME RURAL ROADS	
FILE No.	ASSET No.	SHEET No.	DRAWING No.
-	-	1 OF 1	CS3124
AMEND.	SHEET SIZE		
1	A1		

No.	DESCRIPTION	DATE	NAME	DEPT/COMPANY
1	LENGTH DESIGN INFORMATION ADDED	MAR 2019	S.SHI	EES/DIPL
0	ISSUED AS A STANDARD DRAWING	SEPT 2017	J.LEESON	EES/DIPL
AMENDMENTS				