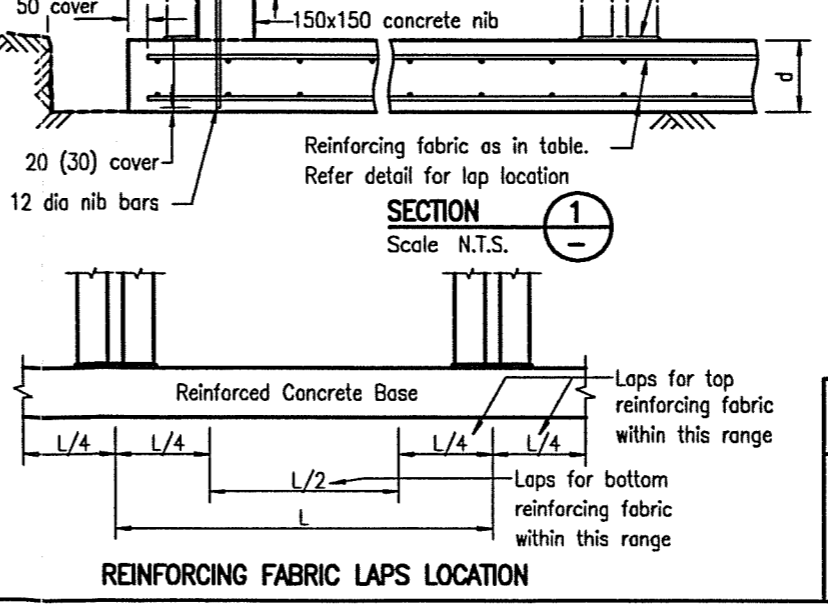
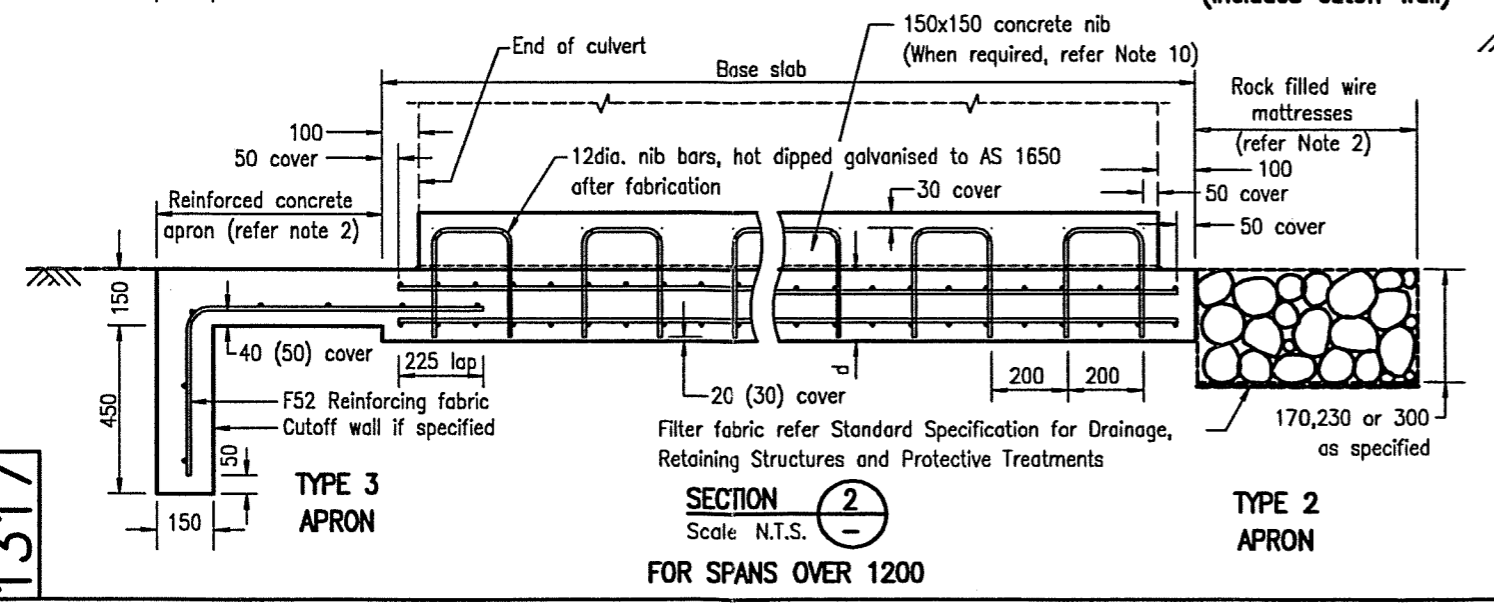
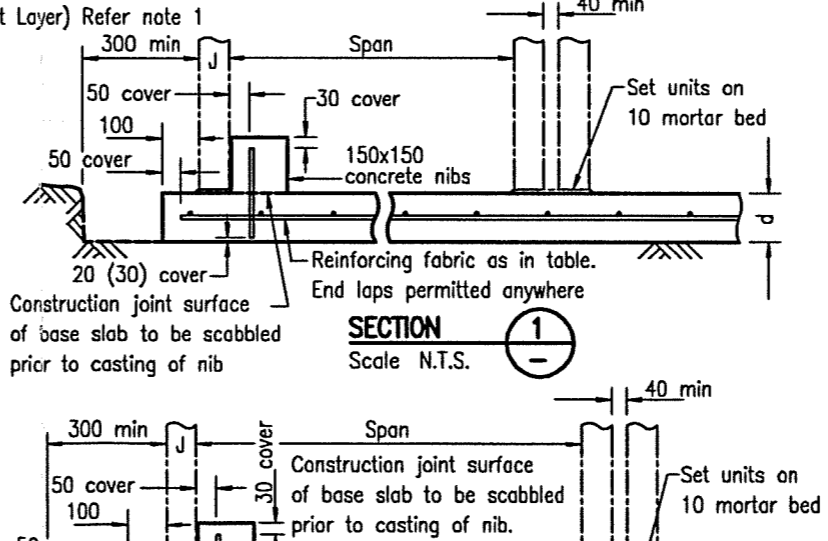
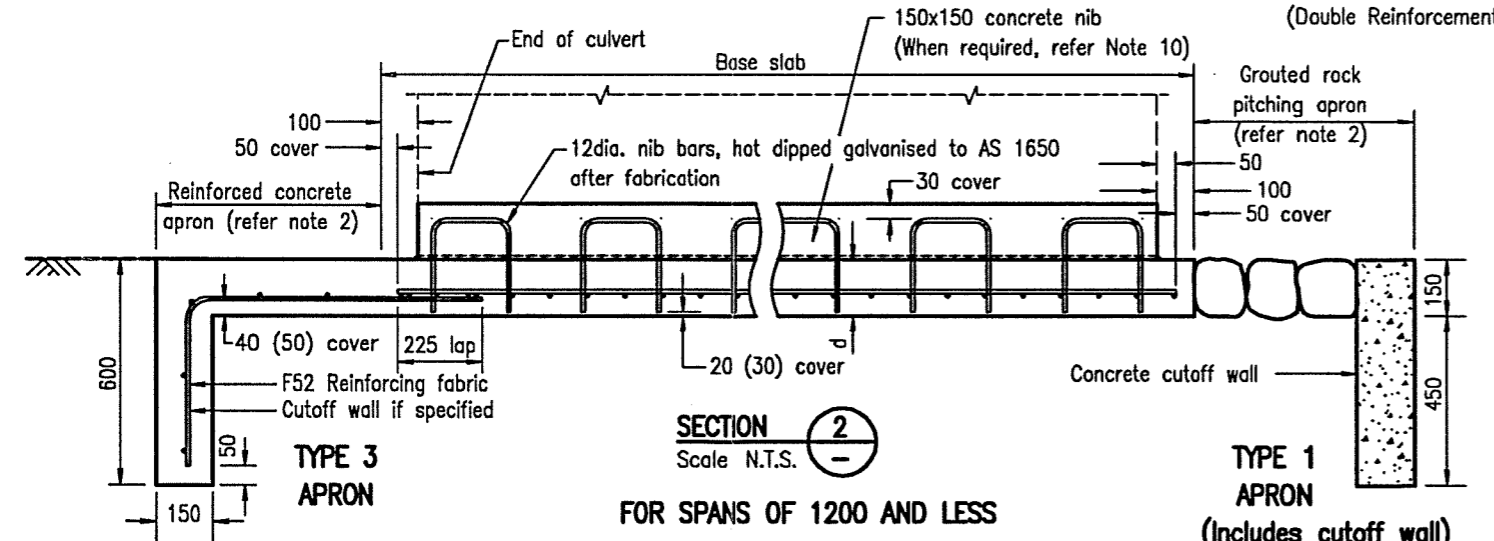
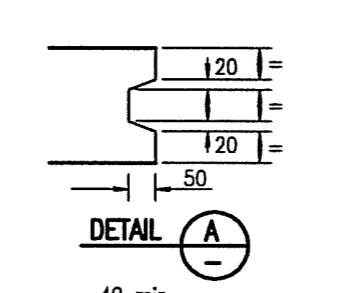
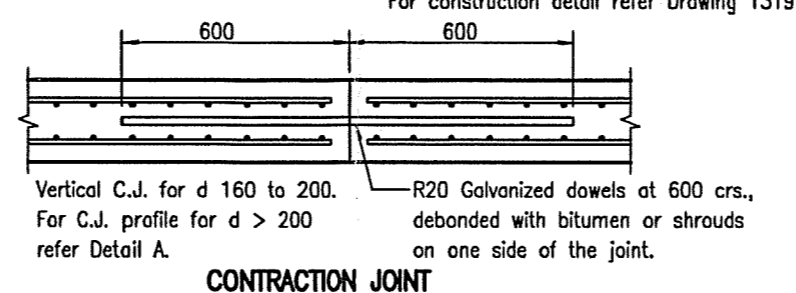
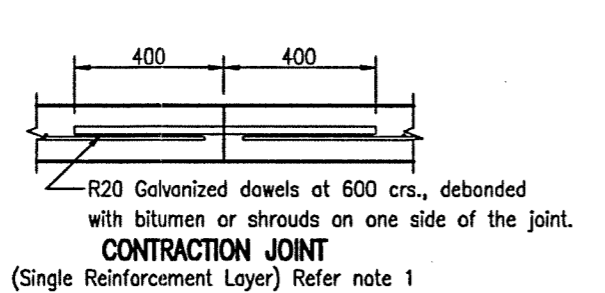
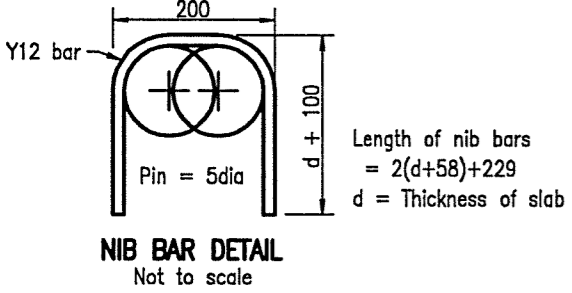


Span	Thickness of slab, d	Reinforcing fabric type	Position of fabric in slab	Length of nib bars
300	120	F 718	Single layer on centre line	N/A
375	120	"		N/A
450	120	"		N/A
600	120	"		N/A
750	130	F 818		605
900	140	F 1018	Single layer at top and bottom 40(50) cover	625
1200	150	F 1118		645
1520	160 (170)	F 818		665
1830	170 (180)	"		685
2130	180 (190)	F 918		705
2440	190 (200)	"		725
2740	200 (210)	F 1018		745
3050	210 (220)	"	765	
3350	220 (230)	F 1118	785	
3660	230 (240)	"	805	

TABLE 1 - SLAB DETAILS (Refer Notes 8 and 9)

NOTES:

- CONTRACTION JOINTS are to be provided where (a) the length of the base slab and/or (b) the width of the base slab exceed 20m. When contraction joints are required across the width of the base slab, they are to be located at 1/4 span points of crown units. Contraction joints across the width of the base slab are to be continued across the aprons. For apron contraction joints refer to detail for single reinforcement layer. 24 hours minimum is to be allowed between pours.
- APRONS where unreinforced wingwalls are used shall be grouted rock pitching (Type 1), rock filled wire mattresses (Type 2) or concrete reinforced with F52 fabric (Type 3). Where RC wingwalls are used, refer Standard Drawing 1303 for apron details. Protection works at outlets and inlets are typical and may be varied by the engineer to suit the conditions at the site. If aprons are specified, apron lengths shall be nominally between ends of the wings as drawn. Any extended or reduced length will be shown on the drawings.
- BASE DIMENSIONS given are applicable to a maximum fill height over the culvert crown of 1.5m. An on site check of the units dimensions should be made before setting out the base slab as there are variations between manufacturers.
- UNIT DIMENSIONS: H = Height of opening
J = Thickness of leg
Span = Internal width
- LAPS shall be made so that the two outermost wires of one fabric overlap the two outermost wires of the sheet being lapped.
- OVERLAPS - Where 4 sheets overlap, cut out cross wires to limit build up in thickness of fabric.
- DETAIL TO BE SHOWN ELSEWHERE IN THE DOCUMENTS: Apron type, depth of Type 2 apron (if required), Apron cutoff wall, U/S and/or D/S (if required), Aggressive environment treatment (if required), Culvert location (chainage) and base distance and height.
- AGGRESSIVE ENVIRONMENT - Dimensions indicating slab thickness, steel cover and concrete class are shown in brackets for aggressive environment.
- DESIGN LOADING - Design loading W7, T44 and HLP320.
- NIB DETAILS are as follows: Arrangements: for H < 600 - no nibs.
for RCBC H > 600 - nibs supporting external legs of external cells.
for SLBC H > 600 to 900 - nibs supporting external legs of external cells.
for SLBC H > 900 - nibs supporting both legs of external cells.
Installation: for H < 1500 - nibs cast before placement of units.
for H > 1500 - nibs cast after placement of units.
- CONCRETE: Reinforced concrete class 32 MPa/20 (50 MPa/20). Unreinforced concrete class 20 MPa/20.
- STEEL: Reinforcing bars to be grade 400Y to AS 1302. 20 dia. dowels to be grade 250R to AS 1302 and galvanized to AS/NZS 4680. Reinforcing fabric to AS 1304.
- DIMENSIONS are in millimetres unless shown otherwise.



R C BOX CULVERTS & SLAB LINK BOX CULVERTS

CONSTRUCTION OF BASES WITH NIBS AND APRONS

Size A3 Drawing No 1317
Scales as shown Date 9/99

1317