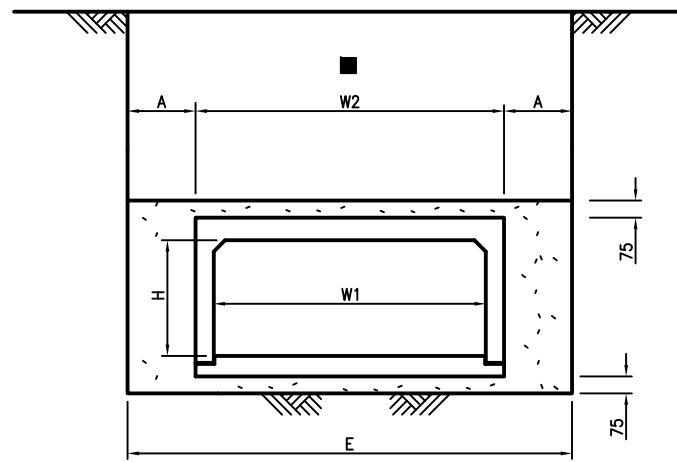
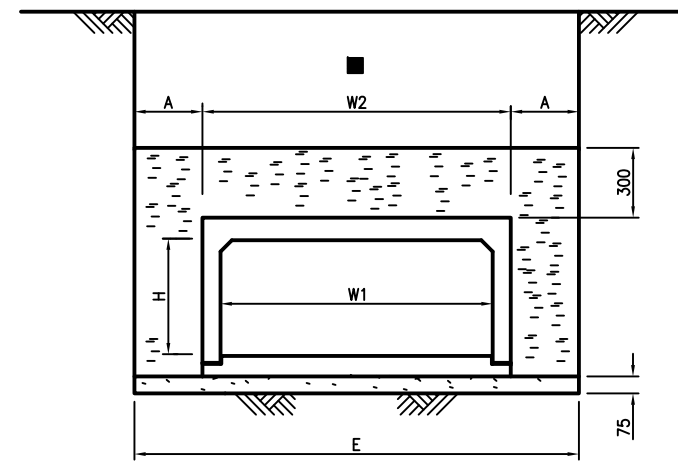


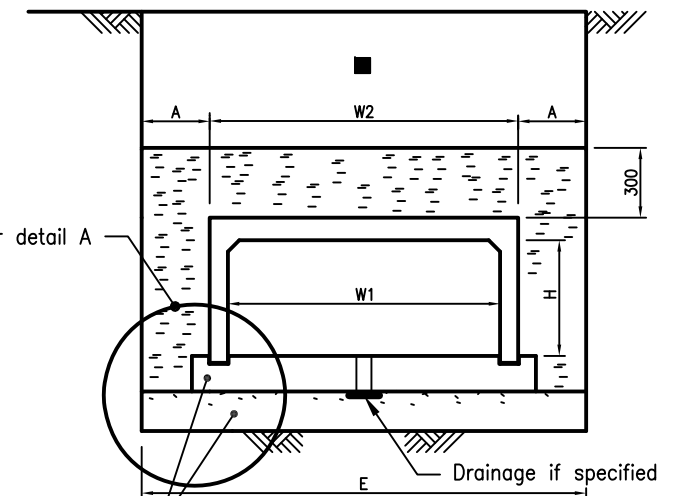
**TYPE 1  
NATURAL BEDDING**



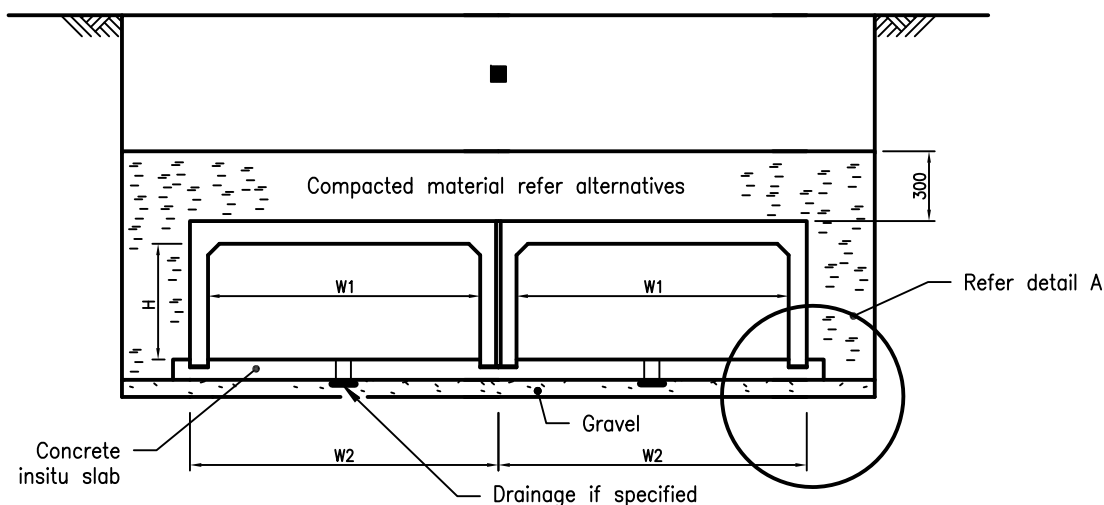
**TYPE 2  
SAND SURROUND**



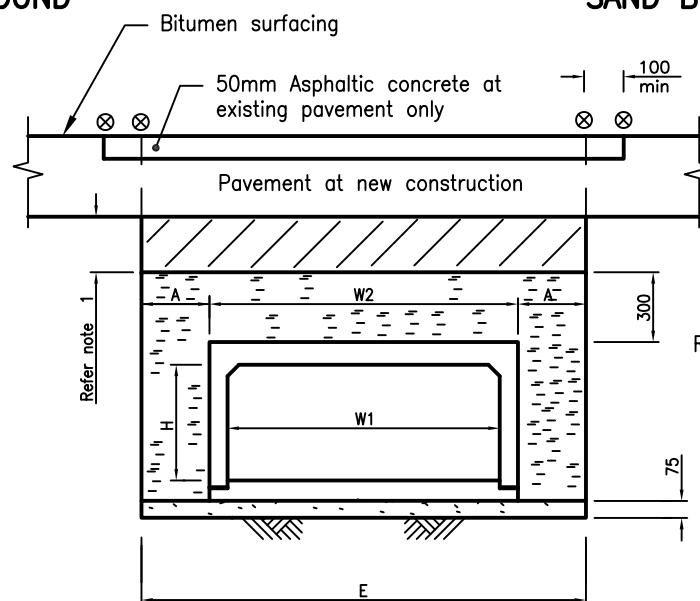
**TYPE 3  
SAND BEDDING**



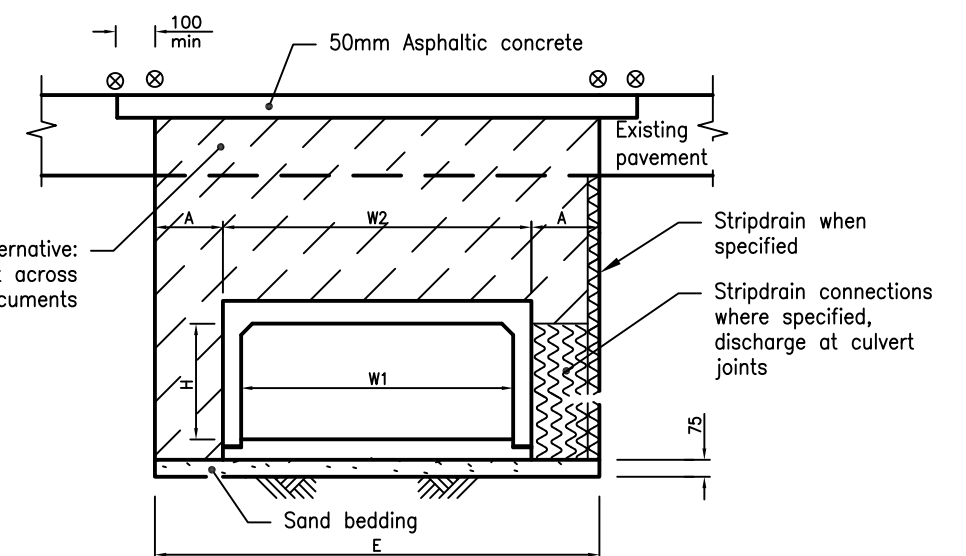
**TYPE 4  
INSITU BASE SLAB**



**MULTIPLE CULVERTS**



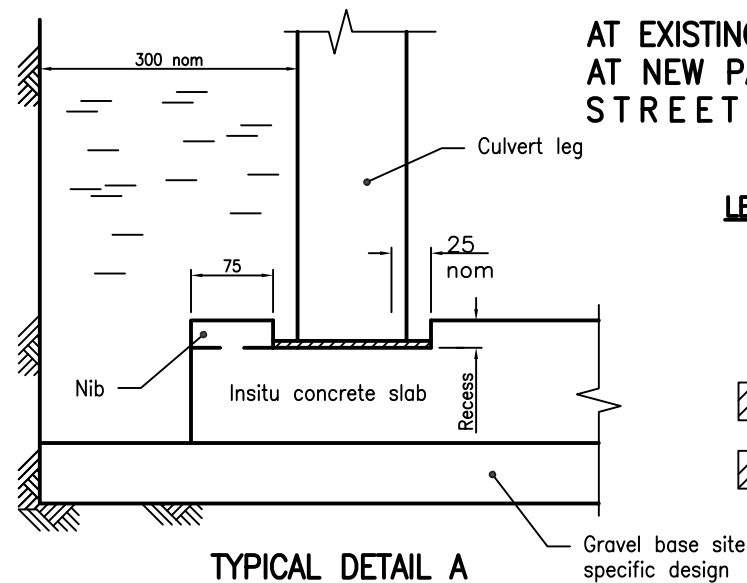
**ALTERNATIVE A  
AT EXISTING SURFACED PAVEMENTS OR  
AT NEW PAVEMENTS ON RESIDENTIAL  
STREETS & RURAL ROADS**



**ALTERNATIVE B  
AT EXISTING SURFACED PAVEMENTS OR  
ON INDUSTRIAL, TRUNK COLLECTOR,  
SUB-ARTERIAL STREETS/ROADS**

W1	W2	E nom
300	420	1000
375	500	1100
450	570	1200
600	730	1300
750	890	1500
900	1050	1700
1200	1360	2000
1520	1700	2300
1820	2010	2600
2130	2340	3000
2440	2670	3300

**EXCAVATION WIDTH**



**TYPICAL DETAIL A**

**LEGEND**

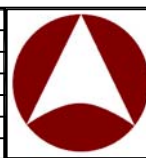
- A 300mm nom.
- Refer Alternative A for backfill requirements at new pavement
- ⊗ Saw cut at existing pavement
- ▨ Gravel (min CBR15) or 75mm crusher run backfill
- ▧ Lean mix concrete backfill (1:15 mix)
- ▩ 10mm Cement mortar bed, 1:3 mix

**NOTES:**

1. Backfill compaction: Approved fill/approved bedding/compacted backfill/CBR15 Gravel 90% Compacted gravel (300 layer) under road pavement 95% Compacted fill – at footpaths/private property 90% max densities determined by Standard Compaction tests to AS 1289.E5.1
2. Refer to DTMR Std. Dwg. 1316 for installation of of precast culverts.
3. Tape all joints with 75 wide Denso (600) Tape or equivalent,
4. All dimensions are in millimetres unless shown otherwise

These drawings have been developed in consultation between the participating Councils.  
BEFORE USE, the user shall confirm that the drawing has been adopted by the appropriate Council.

Rv.	DATE	REVISIONS
C	06/14	Review
B	03/14	Amended Drawing Number
A	10/12	ORIGINAL ISSUE



**INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA  
STANDARD DRAWINGS**

**EXCAVATION, BEDDING AND BACKFILLING PRECAST  
BOX CULVERTS**

**DS-031**

C  
B  
A  
Rv.