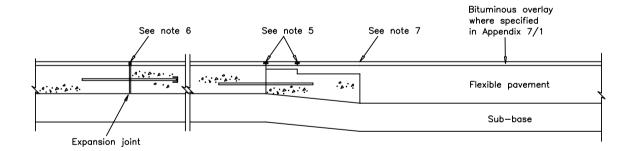


RIGID URC OR JRC TO FLEXIBLE CONSTRUCTION (SURFACE SLABS)



RIGID TO FLEXIBLE CONSTRUCTION (SURFACE SLAB WITH BITUMINOUS OVERLAY)

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- At underbridges the base adjacent to the structure shall be a minimum of 5m of flexible base.
- At buried structures the base and sub-base shall be continued over the structure.
 The sub-base shall be isolated from the structure by not less than 150mm of granular fill.
- 4. The depth of transition slab shall not be less than 200. If necessary, the thickness of the last bay of rigid pavement shall be tapered to match, so that the sub-base surface level is continuous without steps.
- Bituminous construction to be saw-cut and sealed in accordance with Clause 713.
- If concrete pavement is overlaid, this shall be 80mm to 180mm thick bituminous surfacing, the overlay shall be saw—cut and sealed at the concrete pavement joint in accordance with Clause 713, except that the groove shall be 25mm wide for the full depth of the bituminous overlay.
- Bituminous overlay to be saw—cut and sealed in accordance with Clause 713. where existing surfacing is cracked.
- 8. Tie bars shall conform to Clause 1012.

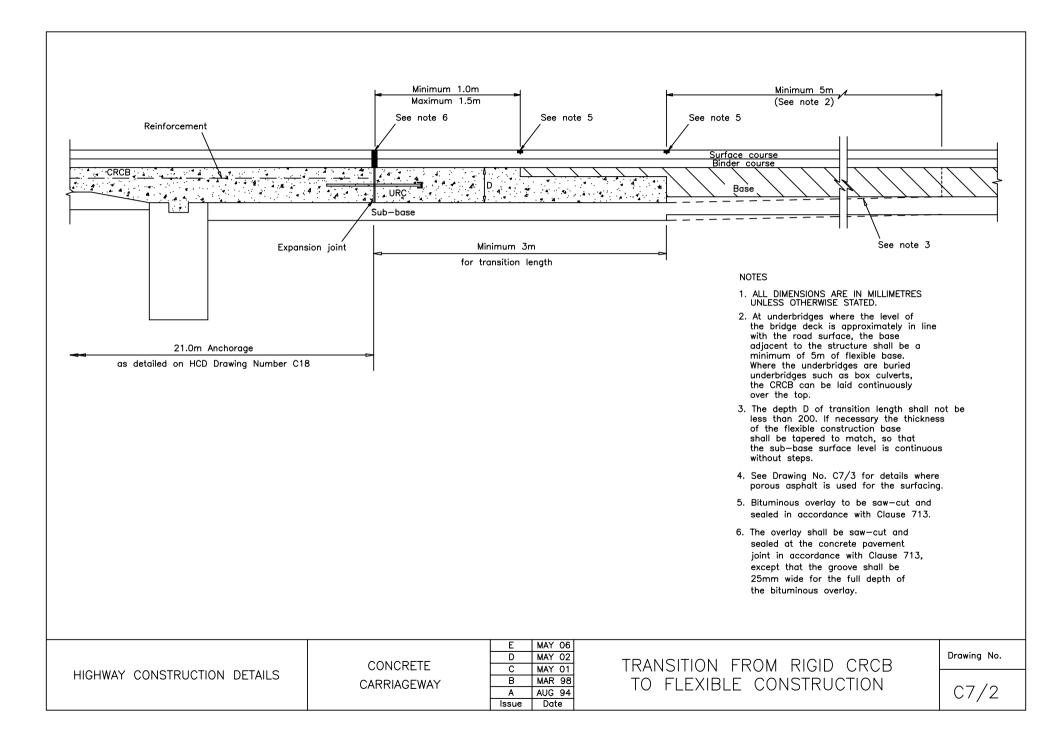
HIGHWAY CONSTRUCTION DETAILS

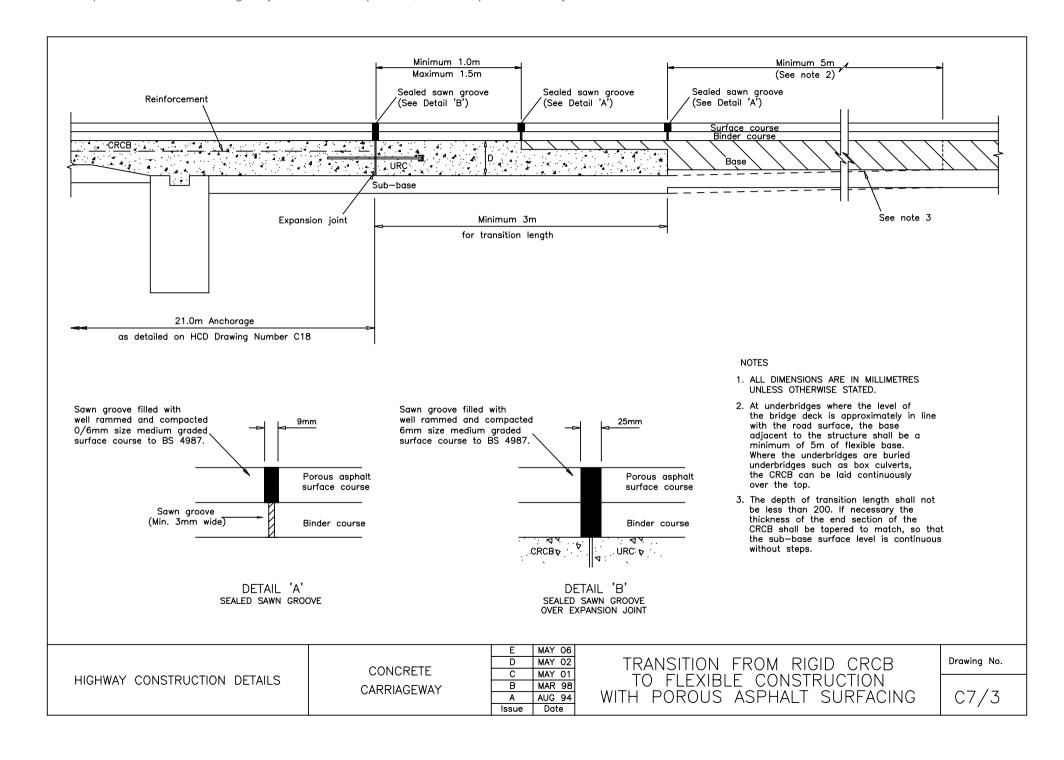
CONCRETE CARRIAGEWAY E MAY 06
D MAY 02
C MAY 01
B MAR 98
A DEC 91
Issue Date

TRANSITION FROM RIGID URC OR JRC TO FLEXIBLE CONSTRUCTION

Drawing No.

C7/1

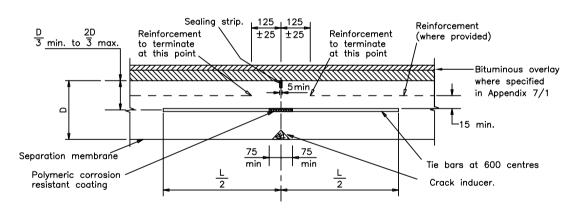




Reinforcement to terminate at this point ±25 ±25 Sealing strip or seal $\frac{D}{3}$ min. to $\frac{2D}{3}$ max. Reinforcement to terminate at this point -Bituminous overlay where specified in Appendix 7/1 ام Reinforcement (where provided) 75 Tie bars at 600 centres Separation membrane min min Polymeric corrosion resistant coating TYPE 1 Longitudinal construction joint between two separately constructed unreinforced or jointed reinforced slabs

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. Tie bars shall conform to Clause 1012.



| TIE BARS | | | | | | | |
|----------|-------------|----------------|--|--|--|--|--|
| Dia | Length L | Grade | | | | | |
| 12 | 750 | B500B or B500C | | | | | |
| 16 | 600 | B500B or B500C | | | | | |
| 20 | 500 | B500B or B500C | | | | | |

TYPE 2
Wet formed longitudinal joint for slabs more than one lane width constructed in one operation

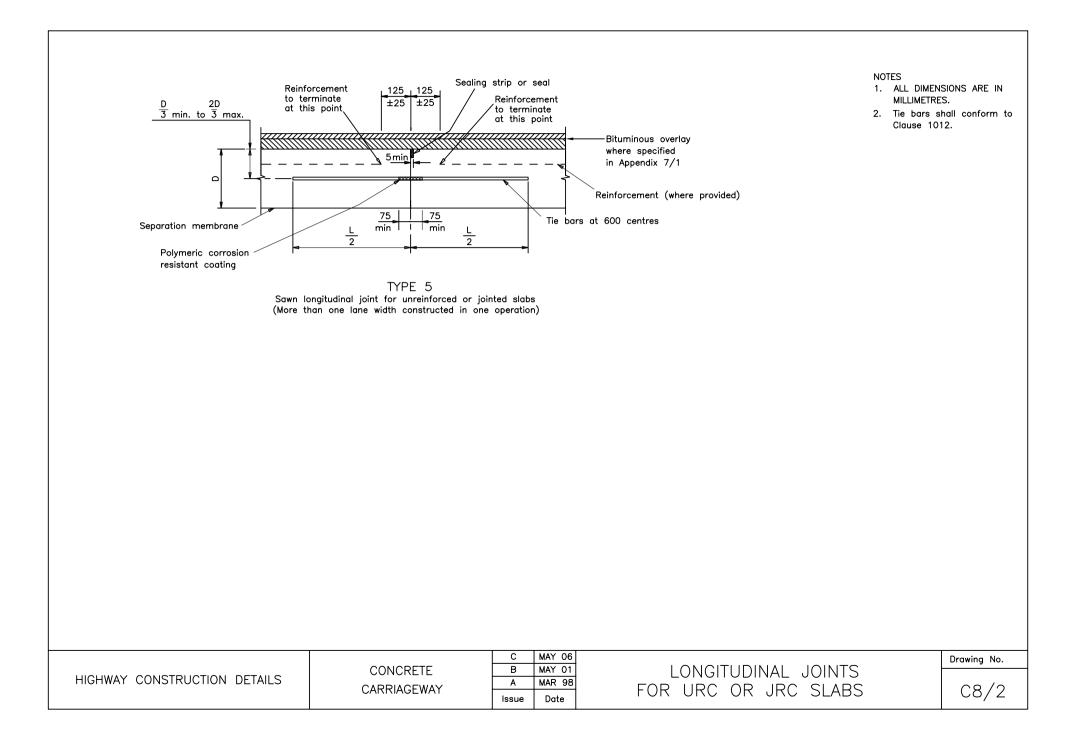
| HIGHWAY | CONSTRUCTION | DETAILS | | |
|---------|--------------|---------|--|--|
| | | | | |

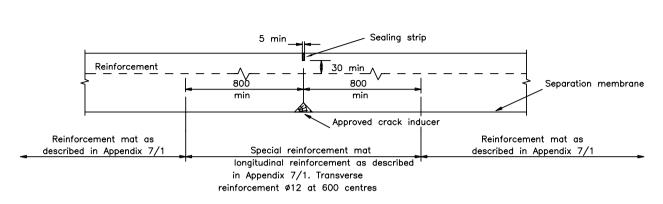
| CONCRETE |
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| CARRIAGEWAY |

| С | MAY 06 |
|-------|--------|
| В | MAY 01 |
| Α | MAR 98 |
| Issue | Date |

LONGITUDINAL JOINTS FOR URC OR JRC SLABS

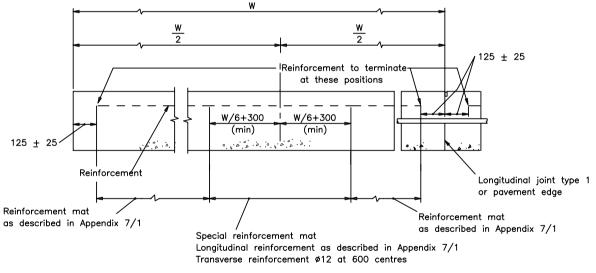
C8/1





LONGITUDINAL JOINT TYPE 3 (Alternative to TYPE 2)

Formed longitudinal joint for slabs constructed in more than one lane width in one operation.



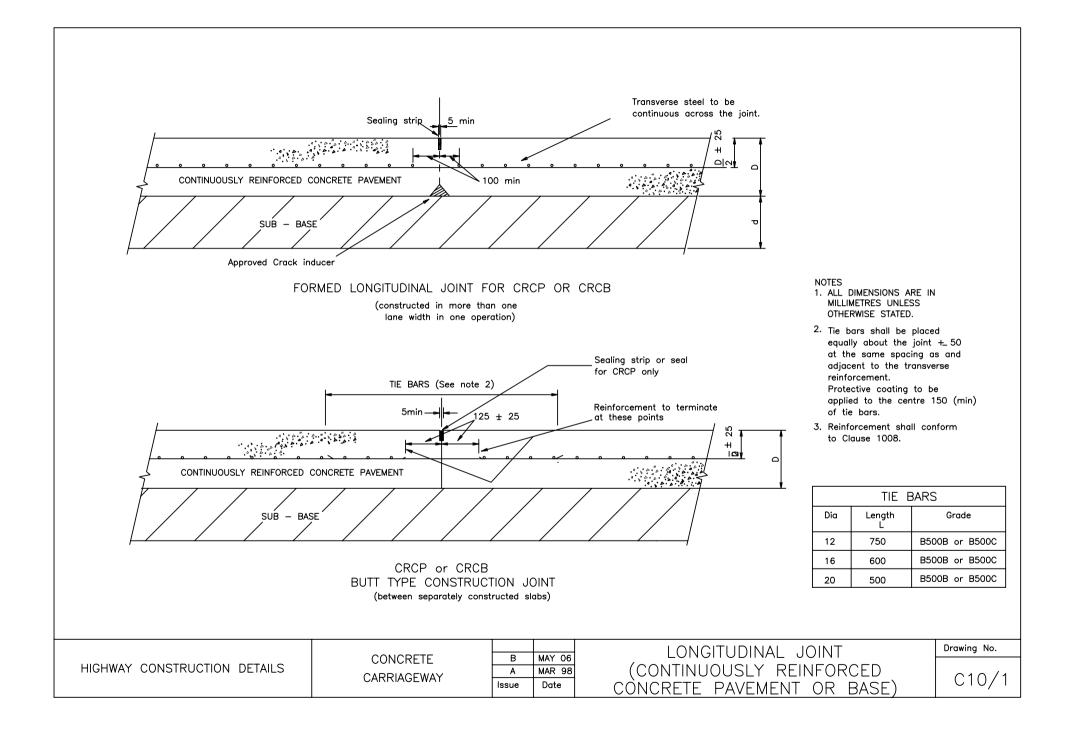
TYPE 4

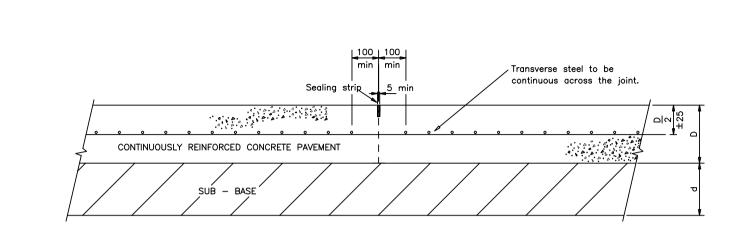
Alternative to a longitudinal joint for wide reinforced slabs up to 6m width

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- W equals slab width laid in one operation between 4m and 6m.
- The special transverse reinforcement shall be lapped with or be continuous with the normal specified transverse reinforcement.
- 4. Reinforcement shall conform to Clause 1008.

| HIGHWAY CONSTRUCTION DETAILS | CONCRETE CARRIAGEWAY | | MAY 06 DEC 91 | LONGITUDINAL JOINTS JOINTED REINFORCED | Drawing No. |
|------------------------------|-------------------------|-------|------------------|-------------------------------------------|-------------|
| | | Issue | Date | CONCRETE SLABS | |





SAWN LONGITUDINAL JOINT FOR CRCP OR CRCB

(constructed in more than one lane width in one operation)

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- Tie bars shall be placed equally about the joint +_ 50 at the same spacing as and adjacent to the transverse reinforcement.
 Protective coating to be applied to the centre 150 (min) of tie bars.
- 3. Reinforcement shall conform to Clause 1008.

| TIE BARS | | | | | | | |
|----------|-------------|----------------|--|--|--|--|--|
| Dia | Length L | Grade | | | | | |
| 12 | 750 | B500B or B500C | | | | | |
| 16 | 600 | B500B or B500C | | | | | |
| 20 | 500 | B500B or B500C | | | | | |

HIGHWAY CONSTRUCTION DETAILS

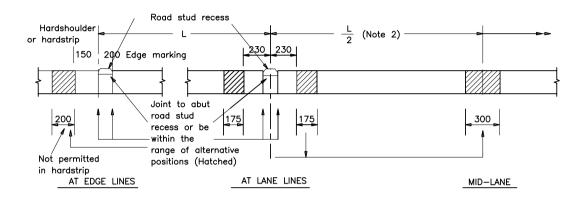
CONCRETE CARRIAGEWAY

| В | MAY 06 |
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| Α | MAR 98 |
| Issue | Date |

LONGITUDINAL JOINT
(CONTINUOUSLY REINFORCED
CONCRETE PAVEMENT OR BASE)

Drawing No.

C10/2



PERMITTED ALTERNATIVE LONGITUDINAL JOINT POSITIONS

Longitudinal joint positions.

Joints shall be positioned beside or close to edge or lane markings, road studs or their recesses, or in mid-lane so that the maximum slab width is not exceeded (see note 3).

Permitted alternative joint positions are shown by arrows above. Tolerances for alternative joint positions are shown by shading. Joints in CRC pavement shall only be construction joints at positions agreed by the Engineer, to suit the method of construction, avoiding positions under the wheeltracks.

Lane markings and reflecting road studs Lane and edge markings shall be placed as shown on the Drawings. Reflecting road studs shall be placed centrally in lane markings or adjacent to edge markings unless otherwise shown on the Drawings.

Minor adjustments to the lane line position of up to 100mm may be made where the joint and lane line would conflict or otherwise fall outside the permitted tolerances, provided that there are no offset discontinuities in the markings and the adjustments are approved by the Engineer.

NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- L= Lane width. For dual carriageways joint position may be at L/2. For position of joints in single carriageways see drawing no. C12 to C17.
- 3. Maximum slab widths:

| Aggregate- | Limestone | All others |
|-----------------|-----------|------------|
| URC | 5.0m | 4.2m |
| JRC 7 CRCP.{ | 7.3m | 6.0m |

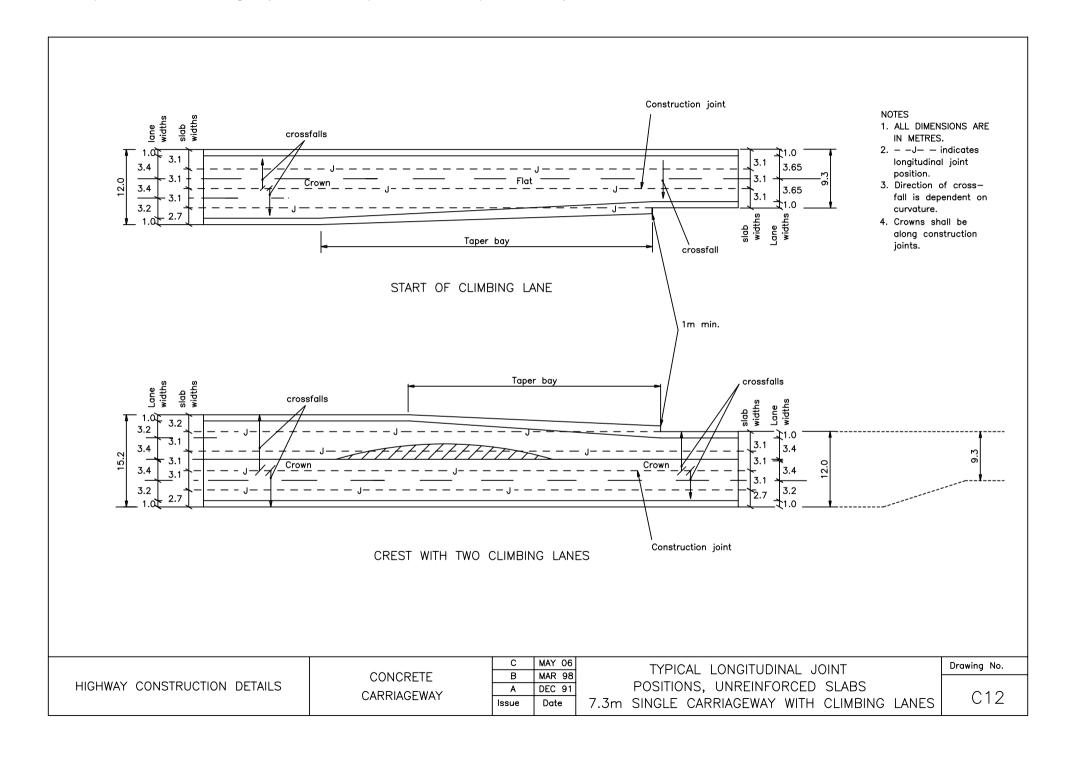
- 4. For transverse joint arrangements in hardstrips see drg no C26.
- Road stud recesses not to be within 150 min of transverse joints.

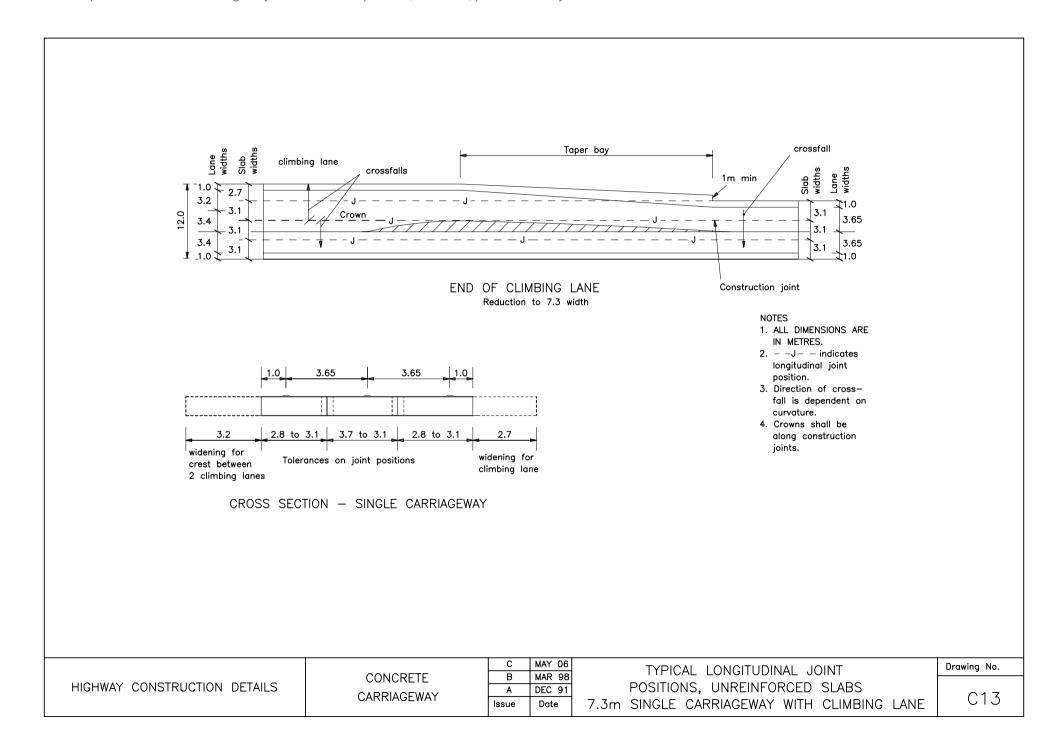
HIGHWAY CONSTRUCTION DETAILS

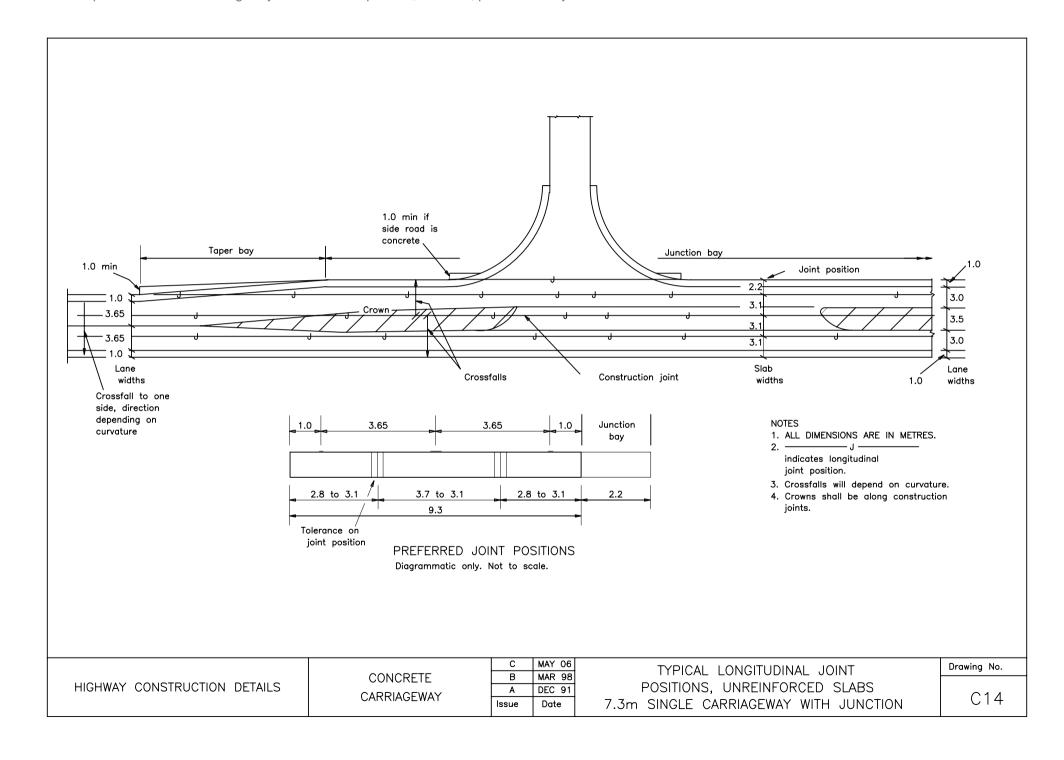
CONCRETE CARRIAGEWAY A DEC 91 Issue Date PERMITTED ALTERNATIVE LONGITUDINAL JOINT POSITIONS & TOLERANCES

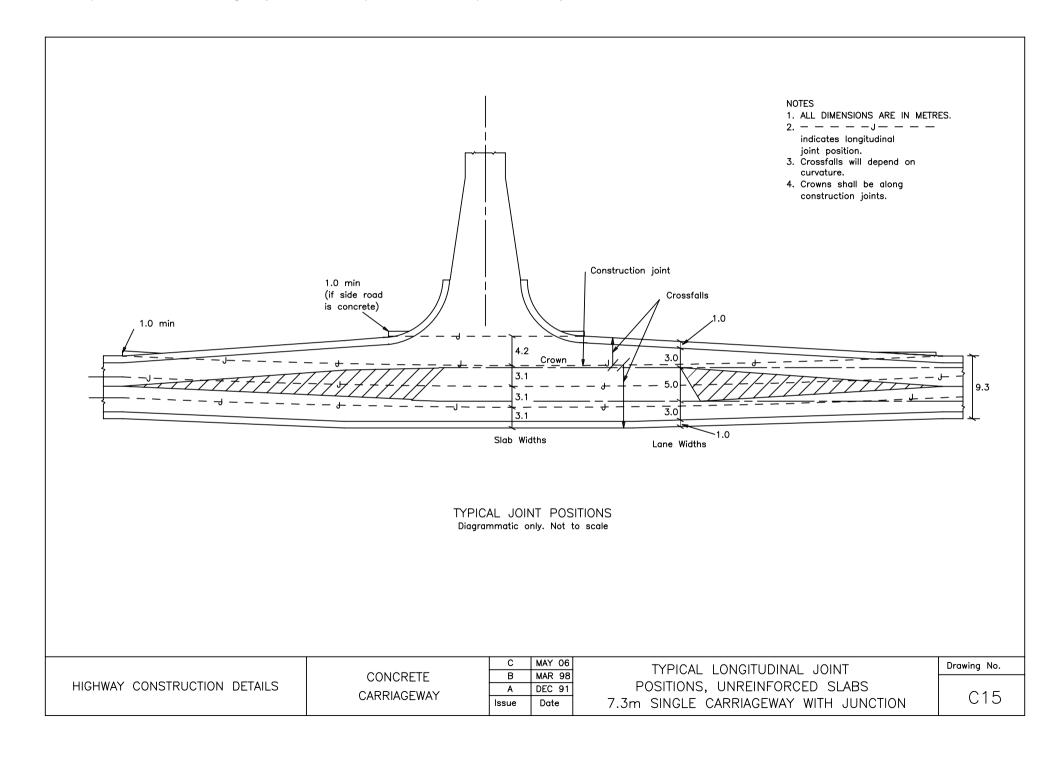
Drawing No.

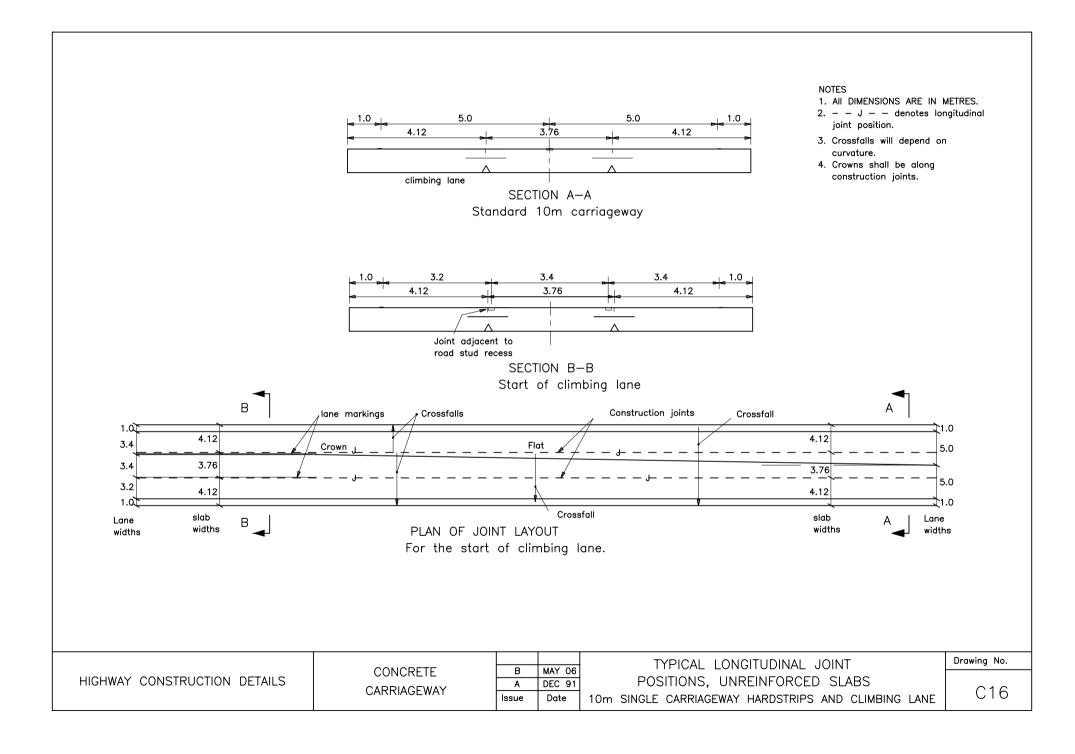
C11

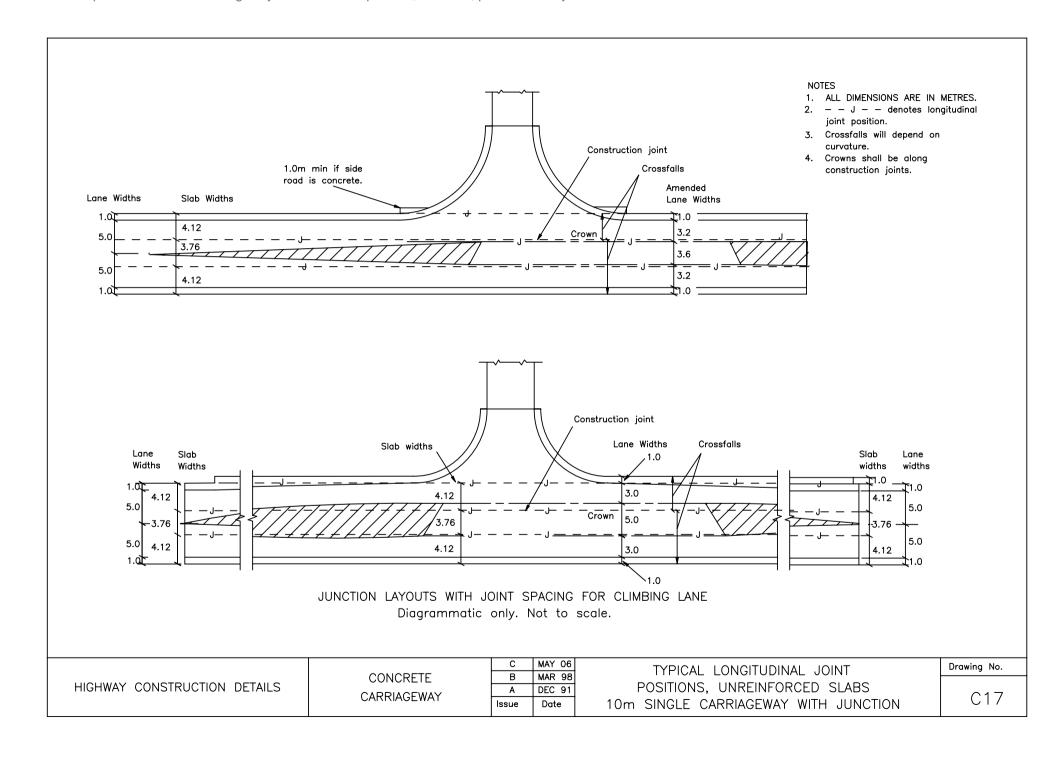


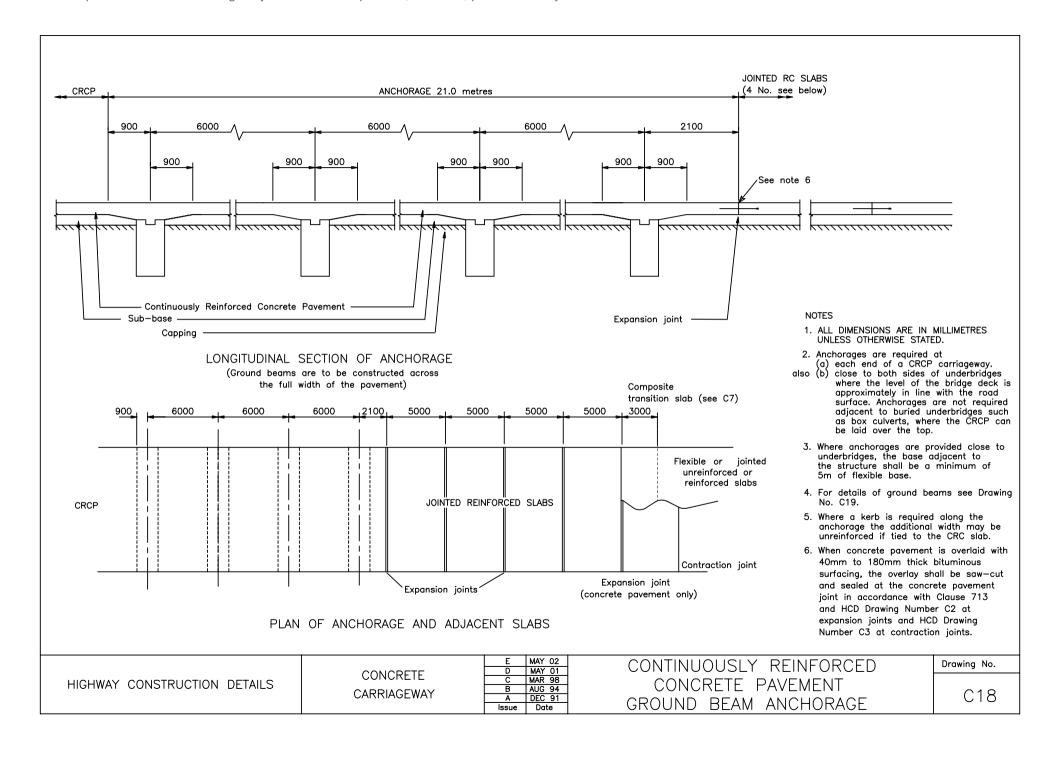


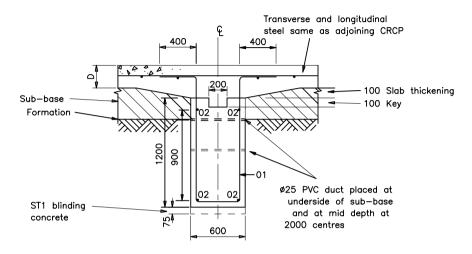












GROUND BEAM (4 No. in anchorage)

BAR SCHEDULE FOR REINFORCEMENT

| MEMBER | BAR Mk | TYPE & SIZE | No.OF Mbrs | No.IN EACH | TOTAL No. | LENGTH OF EACH # | SHAPE CODE | A* | в* | c* | D* | E* |
|--------|-----------|-------------------|---------------|---------------|--------------|---------------------------|---------------|-----|------|-----|------|----|
| BEAMS | 01 | H16 | 4 | ** | ** | 3900 | 44 | 400 | 1375 | 480 | 1375 | - |
| BEAMS | 02 | H16 | 4 | 4 | 16 | ** | 00 | ** | - | - | ı | - |

- ** Varies with width of anchorage
- Specified to nearest 5mm
- # Specified to nearest 25mm

NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- Concrete in ground beams to be strength class C25/30 cast in trench below formation level or sub-base surface.
- 3. Reinforcement shall conform to Clause 1008.
- 4. Beam reinforcement cover to be 60 ± 10 .

HIGHWAY CONSTRUCTION DETAILS

CONCRETE CARRIAGEWAY C MAY 06

B FEB 04

A DEC 91

Issue Date

CONTINUOUSLY REINFORCED
CONCRETE PAVEMENT
GROUND BEAM ANCHORAGE DETAILS

Drawing No.

C19

