

No payment will be made for individual adaptors. The cost of furnishing all materials and constructing adaptor as indicated will

be considered incidental to the pipe culvert.

The cost of removing and disposing, as directed, of any necessary headwall, wingwall or other concrete, shall be bid as "Removal of Existing Structures".

Type "C-1" and "C-2" adaptors shall be formed and constructed on the job site by methods approved by the Engineer.

Type "C-3" and "C-4" adaptors may be shop fabricated by a method approved by the Engineer for attaching a concrete collar (either tongue or groove end) to a standard section of corrugated pipe. Holes may be field drilled in corrugated pipe to match alignment with concrete pipe.

- (1) Thickness same as pipe thickness (T) but not less than 4 inches (except for corrugated pipe where 'T' may vary).
- 2 Opening between pipes shall be carefully grouted.
- 3 Minimum reinforcing shall be steel wire mesh 6" x 6" W2 No. 8 wire 30 lbs/100 sq. ft. Lap ends 6 inches.
- 4 Positive type joint coupling required.
- 5) Four bolts around each connection at equal intervals. 5/8" (min.) bolts in 7/8" (min.) holes.
- Thickness of wall of concrete pipe. See Standard Road plan RF-1.

| FOR "C-2" ADAPTORS | | | |
|--------------------------|----------|----------------------|---|
| Diameter, D inches | Concrete | Wire Mesh Ibs. | Concrete for Fillet ("C-2") cu. yds. |
| 15 | 0.1 | 2.0 | N.A. |
| 18 | 0.1 | 2.3 | N.A. |
| 21 | 0.1 | 2.6 | N.A. |
| 24 | 0.1 | 2.8 | N.A. |
| 30 | 0.2 | 3.4 | 0.1 |
| 36 | 0.2 | 4.0 | 0.1 |
| 42 | 0.2 | 4.5 | 0.1 |
| 48 | 0.3 | 5.1 | 0.1 |
| 54 | 0.3 | 5.7 | 0.1 |
| 60 | 0.4 | 6.2 | 0.1 |
| 66 | 0.5 | 6.9 | 0.1 |
| 72 | 0.6 | 7.5 | 0.1 |
| 78 | 0.6 | 8.1 | 0.1 |
| 84 | 0.7 | 8.7 | 0.1 |

Fillet

(2000 D and 3000 D Pipe)

Standard prefab corrugated

pipe elbow (if necessary)

CORRUGATED PIPE TO CONCRETE PIPE

TYPE "C-4"



STANDARD ROAD PLAN

REVISION 8 04-21-09

SHEET 1 of 1

Deanna Maifuld

CONSTRUCTION OF TYPE 'C' CONCRETE ADAPTORS FOR PIPE CULVERT CONNECTIONS