TYPE 1 FRANGIBLE BOLLARD

See Note 7 (fixing arrangement similar to Detail 'B' except for the orientation of the mounting tube)

See detail 'A' and Note 7

25 I.D. x 3 thick galvanised mild steel tube
50 I.D. x 4.5 thick galvanised mild steel tube

6mm continuous fillet weld

Concrete footing Grade 20/20, size 300x300

TYPE 2 FRANGIBLE BOLLARD

See Note 7 (fixing arrangement similar to Detail 'B' except for the orientation of the mounting tube)

See detail 'B' and Note 7 to suit actual site condition

The number of bollards may be increased or decreased to suit actual site condition

Notes:
1. All dimensions are in millimetres.
2. Steel for frangible bollard shall be in accordance with Part 3, Section 11 of the General Specification.
3. Steel components forming frangible bollard shall be hot-dip galvanized in accordance with Section 18 of the General Specification.
4. Welding for frangible bollard shall be fillet welds and shall be ground smooth before treating with two coats of zinc rich paint.
5. All bolts shall be grade 4.6 complying with Section 18 of the General Specification.
6. All galvanized steel work shall be etch primed and painted to System D as specified in Section 18 of the General Specification.
7. TS109 shown shall be made of aluminium or equivalent approved by the Engineer. Refer to Transport Department Drawing No. CT174/51-1(1) for details. The "KEEP LEFT" arrow sign could be replaced by other sign if requested by or agreed with Transport Department.
8. Colour of frangible bollard shall be white unless otherwise agreed between HyD and TD. Subject to directive of HyD, certain straight portions shall be wrapped with retroreflective sheeting to class Ref. 1 to BSEN 12899.
9. a - Width required to be agreed with TD based on actual site condition.

Former Drg. No H2189A with Note 8 revised

5mm continuous fillet weld

10mm dia. bolt & nut & washer

260 dia. "KEEP LEFT" arrow plate (TS109)

DETAIL 'A'

DETAIL 'B'

CONCRETE FOOTING

GRADE 20/20

650

650

750 - 1100

6mm continuous fillet weld

50 I.D. x 3 thick galvanised mild steel tube

750 - 1100

260 dia. "KEEP LEFT" arrow plate (TS109)

50 I.D. x 3 thick galvanised mild steel tube

6mm continuous fillet weld

50 I.D. x 4.5 thick galvanised mild steel tube

Concrete footing Grade 20/20, size 300x300

Galvanised mild steel tube

300 x 300

Concrete footing Grade 20/20

Type 2 frangible bollard

Type 1 frangible bollard

Concrete footing Grade 20/20

Galvanised mild steel tube

300 x 300