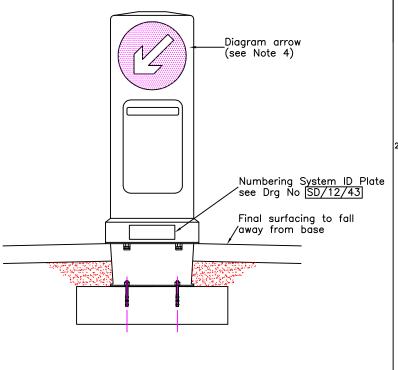
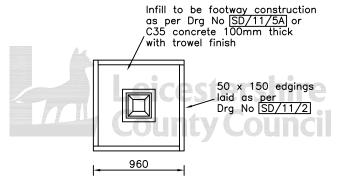
SECTIONAL ELEVATION Haldo MK 2 Baselite Reflex Bodyshell or similar Direction Haldo MK II of Traffic Baselite box or similar Footway Surfacing Granular Sub-base 50mm diameter 50 PVC duct No M10 x 100 600 x 600 x 150 aalvanised indented insitu concrete bolts cast into block, C20 grade concrete

SECTIONAL ELEVATION





PLAN SHOWING HARD STANDING AROUND
BOLLARD IN UNSURFACED AREAS
(see Note 5)

NOTES:

- The one piece moulded bollard shell shall be made from soft, translucent white, UV stabilised, butyl vinyl acetate capable of withstanding hard impacts at temperatures down to -23°C. The bollard shell shall provide good yield characteristics in both face on and diagonal impacts without major damage to shell or base assembly.
- The bollard shall achieve, when new, a mean average light output of 100cd/m2 at the diagram arrow. It shall through design provide outstanding levels of lighting at the upper portion of the bollard head regardless of vehicular approach angle.
- It shall be fixed to the hinged platform of the enclosure by 4 No stainless steel threaded Hex Sets with stainless nuts used on the inside of the shell to prevent bollard theft or loss.
- 2. The base light enclosure shall be manufactured in cast aluminium LM6 aluminium alloy, base flanges to include holes for ragbolts if required. The base light lid shall retain and seal a 5.0mm thick UV stabilized polycarbonate domed lens to a protection factor of IP67 (BS 5490). Base light units shall contain a removable gear tray with a bonded incoming supply plug which shall engage in the order:
- which shall engage in the order:
 earth-neutral—live and disconnect in the
 reverse order. The gear tray shall be fitted
 with two independently fused circuits each
 comprising a Harvard DK13 digital ballast
 supplying an 11watt 4 pin compact
 flourescent lamp, with both circuits controlled
 by a single Zodion F4200 low—light infra-red
 photo-electric control unit, complying with
 BSEN 50081/50082. Each base light unit
 shall be fitted with an integral fixed
 plug/socket arrangement that isolates the
 bollard electrical circuits upon removal of the
 light/gear tray and shall be fitted with
 internally accessible cable glands that, when
 tightened, maintains an IP68 rating for the
 base unit and an additional cable gland hole
 plug, for use where a single cable access is
 required and that, when fitted, also maintains
 the IP rating.
- The foundation incorporating the ducting should be as per the manufacturers recommendations.
- The diagram arrow or sign as specified by the Engineer, to be in accordance with the Traffic Signs Regulations and General Directions 2002.
- Where the bollard is installed in an unsurfaced verge, island or refuge, the bollard base must be surrounded by an area of hard surfacing as shown.
- 6. The bollard should be positioned in splitter islands and refuges so that the front face is 0.45m to 1m from the nose of the island and the clearance from the carriageway to the side faces shall be 0.45m to 0.6m or as agreed with the Engineer.

PLAN SHOWING BOLT CENTRES

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TRANSPORTATION AND

WASTE MANAGEMENT

STANDARD DRAWING

TRAFFIC SIGNS

BASE ILLUMINATED DEFORMABLE BOLLARD - TYPE B

PRAWING NUMBER DATE					
SD/12/20 ^C	OCTOBER 2000		O	AUG 2009	Notes 1 and 2 amended
		SCALE	В	APRIL 2007	Numbering System ID Plate added
			Α	APRIL 2001	Note 2 amended
		NOT TO SCALE	Rev	Date	Notes on Revision