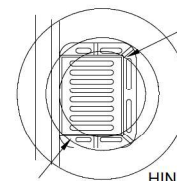
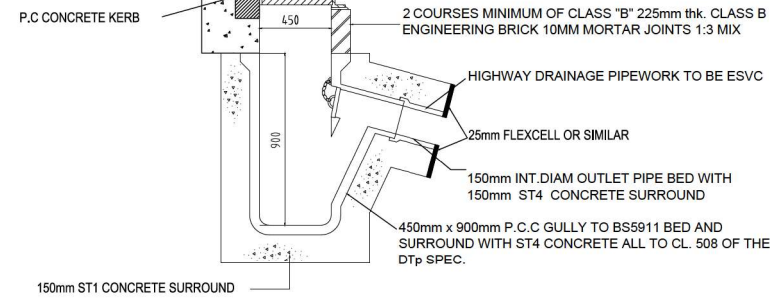


TK - 125X255/150mm HALF
BATTERED TRANSITION KERB

NOTE ALL MATERIALS ARE TO BE AS SPECIFIED BY THE DOT SPECIFICATION FOR HIGHWAY WORKS, 1986. ALL KERBS ARE TO COMPLY WITH BS 7263. ALL DROPPED KERBS ARE TO COMPLY WITH MCC STANDARD DROPPED KERB DETAIL.

GULLY GRATING AND FRAME TO BE HINGED AND NON ROCK, DUCTILE IRON, EN 124 CLASS D400 (APPROVED TESTER KITE MARK OR LRQA) SET IN 3:1 CEMENT MORTAR



HEAVY DUTY DUCTILE IRON GULLY GRATING AND FRAME TO BE BS 479 1976 REF. GA2 450 (EN 124 REF. D400) SINGLE PIECE GRATING, ANTI- THEFT CAPTIVE HINGE, BLACK BITUMEN COATED. MINIMUM WEIGHT 31KG BEDDED IN ACCORDANCE WITH SPECIFICATION IN PART 5 HA 104/02

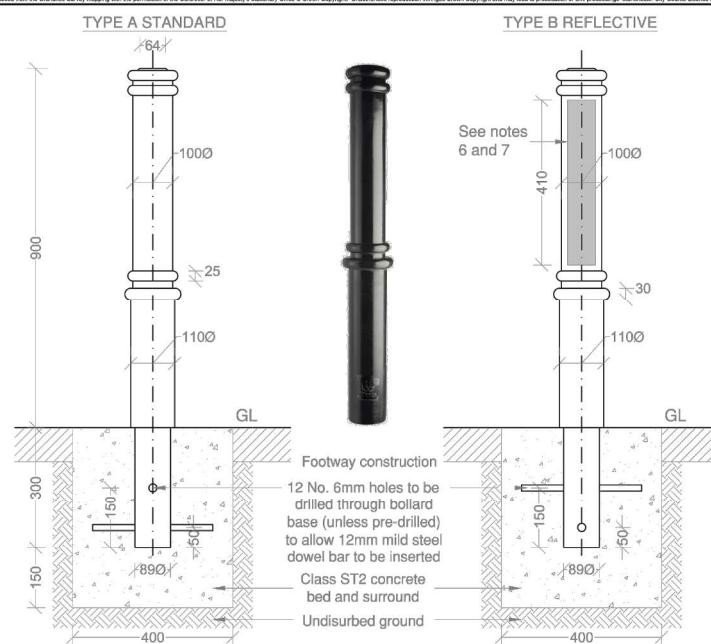
FILLETS TO BE FILLED AND POINTED WITH CLASS 1 MORTAR

HINGED & LOCKABLE GULLY GRATE AND FRAME TYPE GA1. GRADE D400 TO BSEN124, BED AND HAUNCHED WITH A 1:3 CEMENT TO SHARP SAND MORTAR MIX TO A LEVEL OF 6mm BELOW FRL. THE THICKNESS OF THE BED SHALL BE 10-25mm, ANY ADJUSTMENT SHALL BE MADE BY MODIFYING THE BRICKWORK

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES
- ALL DETAILS TO BE AS PER MCC HIGHWAYS TYPICAL DETAILS
- ALL KERBING AND PAVEMENT THICKNESSES TO BE AS SET OUT ON S278 PLAN 12851-102, AND AS AGREED WITH MCC HIGHWAYS DEPARTMENT.
- TACTILE PAVING FLAGS TO BE LAID IN ACCORDANCE WITH DETR PUBLICATION 'GUIDANCE ON THE USE OF TACTILE PAVING SURFACES'
- DROP KERBS ON CROSSING TO ALIGN WITH CROSSING ON OPPOSITE SIDE OF ROAD. BLISTERS ON TACTILE PAVING MUST ALIGN WITH BLISTERS ON PAVERS ON OPPOSITE SIDE OF ROAD.
- FOR NON-STANDARD UNCONTROLLED DROP CROSSINGS WHERE TACTILES ARE NOT DIRECTLY OPPOSITE EACH OTHER A MINIMUM OF 2 No. FULL PAVERS (800MM) ARE TO BE LAID TO THE REAR OF THE KERB AT THE MOST NARROW POINT OF THE TACTILE CROSSING.
- CONCRETE TO COMPLY WITH BS EN206-1/BS 8500
- ALL PRECAST CONCRETE KERBS & QUADRANTS SHALL BE TO DOT SPEC. CLAUSE 1101 & BS7263, IN PRESSED CONCRETE WITH HARDSTONE AGGREGATE
- MIN KERB LENGTH TO BE 450mm
- CBR TESTS TO BE CARRIED OUT WHERE NEW HIGHWAY WORKS ARE PROPOSED TO DETERMINE SUITABLE SUB BASE/ CAPPING, AS PER THE FEATURED TABLE, AND AS AGREED WITH MCC HIGHWAYS ENGINEER.

ROAD GULLY DETAIL



The Morpeth bollard is constructed of polyurethane cast around a steel core to provide strength and stability, whilst achieving the aesthetics of a cast iron bollard. It is to be used to deter motorists driving and/or parking on footways. See standard detail L23 for alternative passive safety bollard.

NOTES:

- All dimensions in millimetres
- Bollard to be ferrocast steel central core
- Polyurethane casting material to be through coloured to match final colour
- All concrete to clause 2602 table 26/1
- Colour to be black unless otherwise stated
- Recess for band to be 2 to 3mm depth 64mm wide and 410mm long
- Tap to be retro-reflective white one side, red reverse of bollard
- Available from - or similar approved - Broxap and Corby (www.broxap.com) Rowhurst Industrial Estate, Chesterton, Newcastle-under-Lyme, Staffordshire, ST5 6BD. Tel: 01782 564411



MANCHESTER CITY COUNCIL

Highway Services

PART OF NEIGHBOURHOOD SERVICES

Town Hall

PO Box 532

Manchester M60 2LA

PROJECT TITLE
Standard Details
Landscape

DRAWING TITLE
Morpeth Bollard

REV
A
10/10

SCALE
A4
NTS

DATE
Aug 10

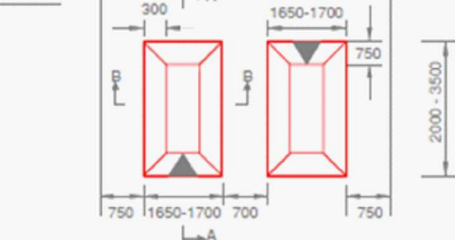
DRAWN
ST

CHECKED
APPROVED

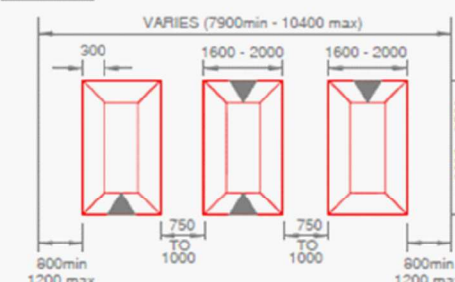
DRAWING NUMBER
STANDARD DETAIL L13

REV
B

TWIN



TRIPLE



SURFACE COURSE



CROSS SECTION A-A



TRANVERSE SECTION B-B



CONSTRUCTION

- SAW CUT AREA OF CUSHION
- SCARIFY OUT AREA
- BS90 BITUMEN SPRAY TACK COAT
- 140mm D.B.M BASECOURSE SHAPED TO FORM
- 35mm DBM WITH 14mm NOMINAL SIZE (AS DETAILED) BS EN 13108 AC8 DENSE SURFACE
- RED ZEBRAFLEX TO LEADING EDGE OF CUSHION
- DEPTH BELOW CARRIAGEWAY SURFACE TO BE A MAXIMUM OF 100mm OR AS DISCUSSED ON SITE SUBJECT TO EXISTING CONSTRUCTION
- DIMENSIONS OF CUSHION TO BE AS DETAILED IN BILL OF QUANTITIES.
- ALL MEASUREMENTS IN MILLIMETRES
- Tolerance on level measured longitudinally to be +12mm. Height of humps to be 75mm +3mm
- For pre-built cushions and build out details see standard detail C16

GUIDELINES

- Gradients:
 - Side ramp Max 1:4
 - ON/OFF ramp Max 1:10
 - ON/OFF ramp (curved) Max 1:5
- Width:
 - STD 1650mm - 2000mm
 - Bus routes 1700mm Maximum
 - Width is governed by:
 - Carriageway overall width
 - Type of traffic use
- Length:
 - STD 2000mm
 - Mini bus and/or dedicated ambulance routes 3500mm
- Gap:
 - STD gap between cushions 750mm

NOTE

For carriageway widths between 7400mm and 7900mm, adjust carriageway width if feasible to accommodate cushions twin or triple



MANCHESTER CITY COUNCIL

Highways Services

PART OF NEIGHBOURHOOD SERVICES

PO Box 532

Town Hall

Manchester M60 2LA

PROJECT TITLE
Standard Details
Carriageway

DRAWING TITLE
Instu Speed Cushions

REV
A
10/10

SCALE
A4
NTS

DATE
Aug 10

DRAWN
ST

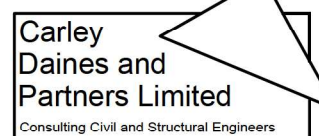
CHECKED
APPROVED

DRAWING NUMBER
STANDARD DETAIL C15

REV
B

REV.	DATE	DESCRIPTION
B	05.04.23	BOLLARD DETAIL ADDED.
A	26.01.23	REVISED TO ENGINEERS COMMENTS.

CLIENT
GREAT PLACES HOUSING GROUP
BOWKER SADLER ARCHITECTURE



11 Bridgewater Road Walkden
Worsley Manchester M28 3JE
Tel 0161 799 2720 Fax 0161 790 3474
E-mail mail@carleydaines.co.uk

TITLE
CHAIN ROAD
BLACKLEY, MANCHESTER
S278 DRAWINGS
CONSTRUCTION DETAILS 2

Drawn	M.HOLE	Checked
Date	DEC 2022	Date
Scale	1:100	
Drawing No.	21-B-12851-106	B

APPROVED

By Colin Cromar at 12:06 pm, Jun 20, 2023