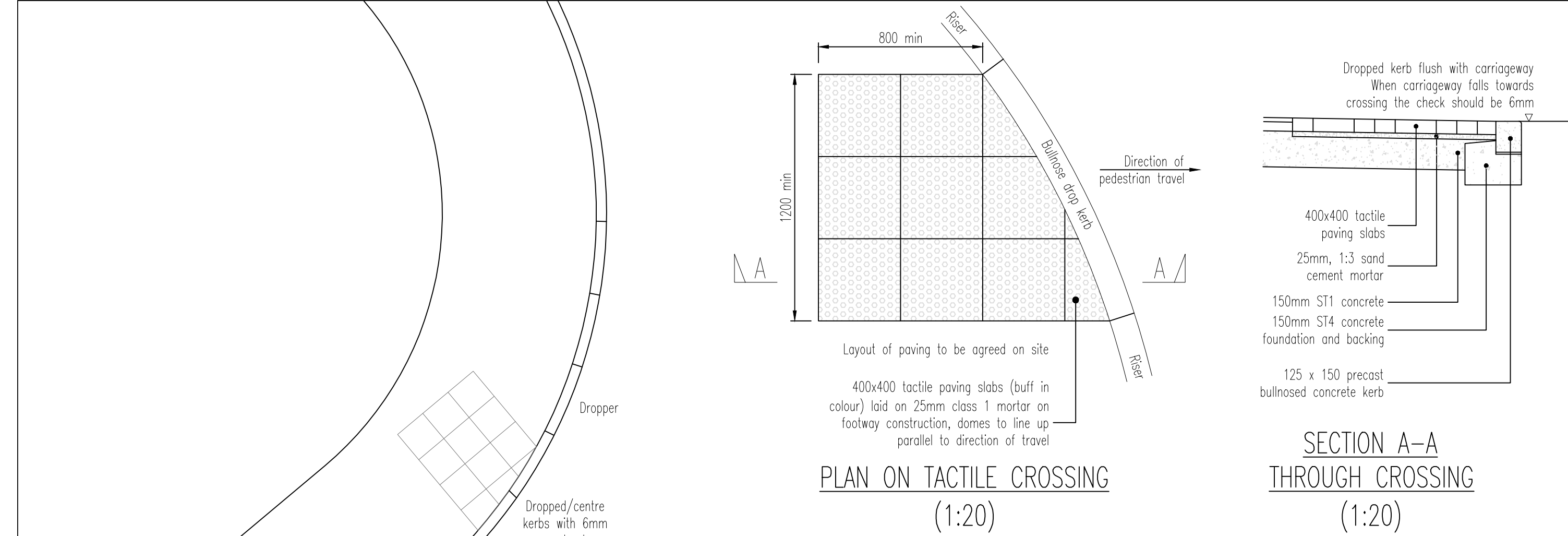
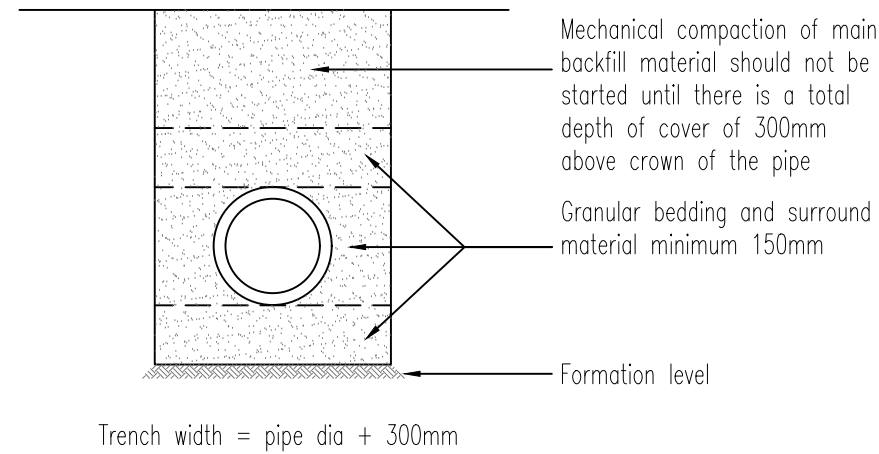




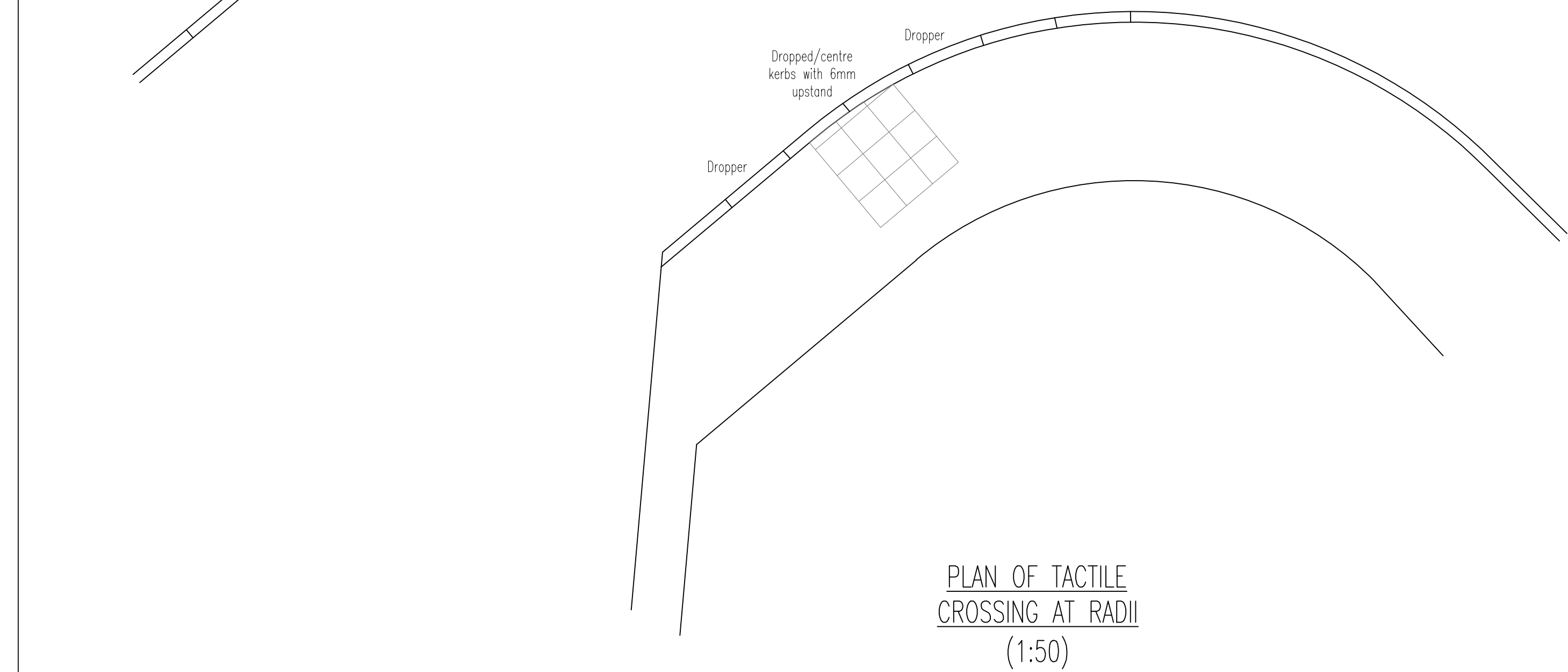
Any trench box/sheeting to terminate 150mm above crown of pipe to prevent displacement of granular material. Boxing/sheeting to be removed progressively during placement of main backfill

Sidefill material to be placed evenly on both sides of pipes taking care to work the material under the lower quadrant of the pipe ensuring the pipe is not lifted. Both sides of the trench should be filled simultaneously to avoid horizontal movement of the pipe

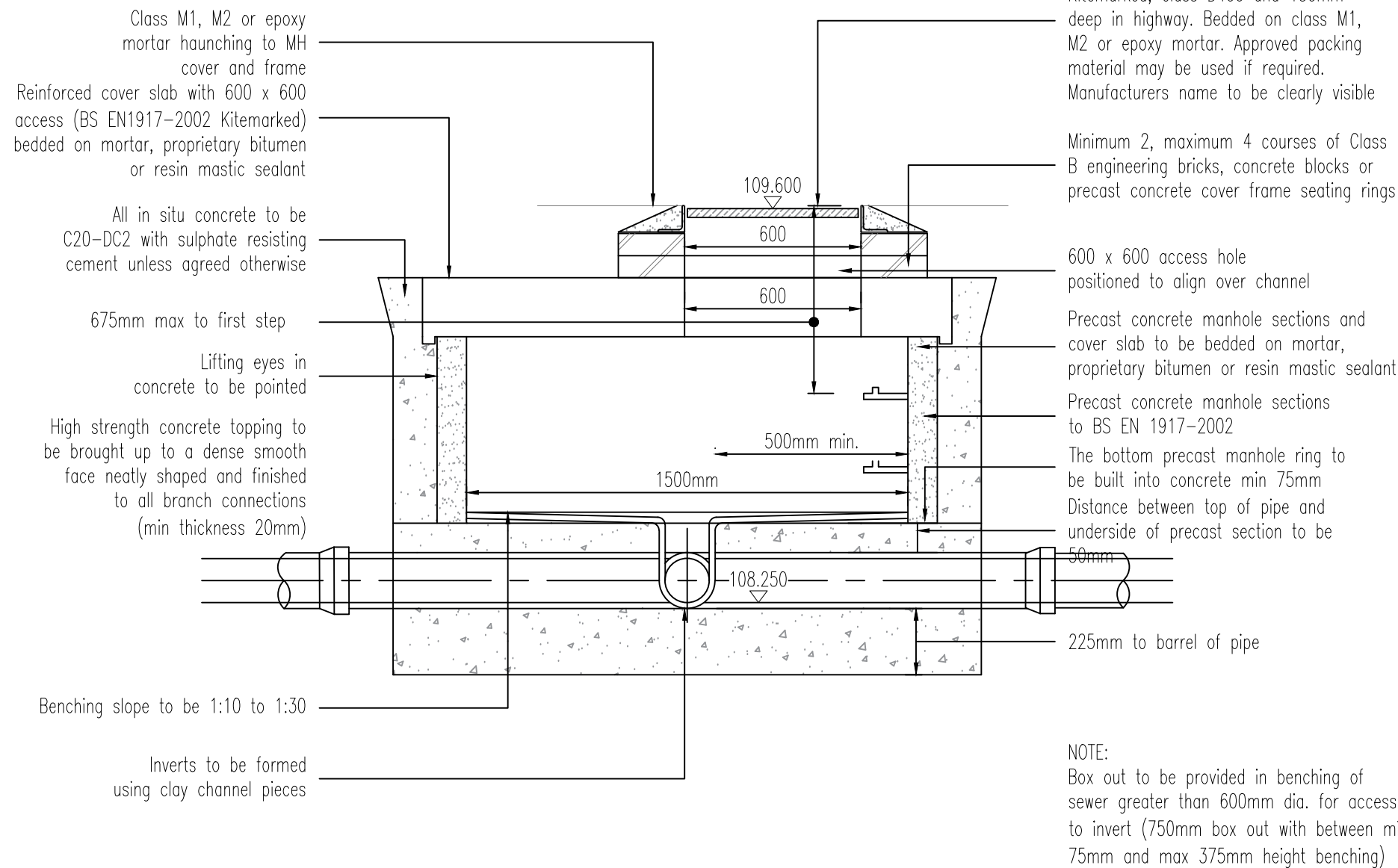


TYPICAL DETAIL THROUGH CLASS S1 BEDDING (1:20)

- N O T E S
- All highway works are to be constructed in accordance with the Kirklees Metropolitan Council Highways Standard Details.
 - All highway works are to be subject of a Section 38 Agreement of the Highways Act 1980.
 - All public sewers to be in accordance with "Code for Adoption". The Relevant British/European and Yorkshire Water's standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked and together with any additional specific requirements of the drainage authority.
 - All public sewers are to be subject of a Section 104 Agreement of the Water Industry Act 1991. With the exception of highway only drainage.
 - Any coated base material in the carriageway left exposed for more than seven days to be sealed using bituminous sealing grit.
 - Highway boundary to be indicated by back edgings laid flush or change of material on private drives.
 - All vertical faces of joints involving flexible materials shall be treated with "Oxy-bit" or other approved joint sealant. This includes ironwork and precast products. Overbanding shall not be accepted by Kirklees Metropolitan Council.
 - Any final surfacing to be discussed with Kirklees Metropolitan Council.
 - Unsealed and loose material such as crushed stone, gravel or pebbles is not acceptable to the adoptable highway.
 - Do not scale from this drawing.



NOTE:
When chamber size increases to 1500mm or larger then double twin covers will be required.
A 1220 x 675mm clear opening (central or eccentric) sited over the channel with double duty twin 600 x 600 or twin 610 x 675 double triangular covers must be provided

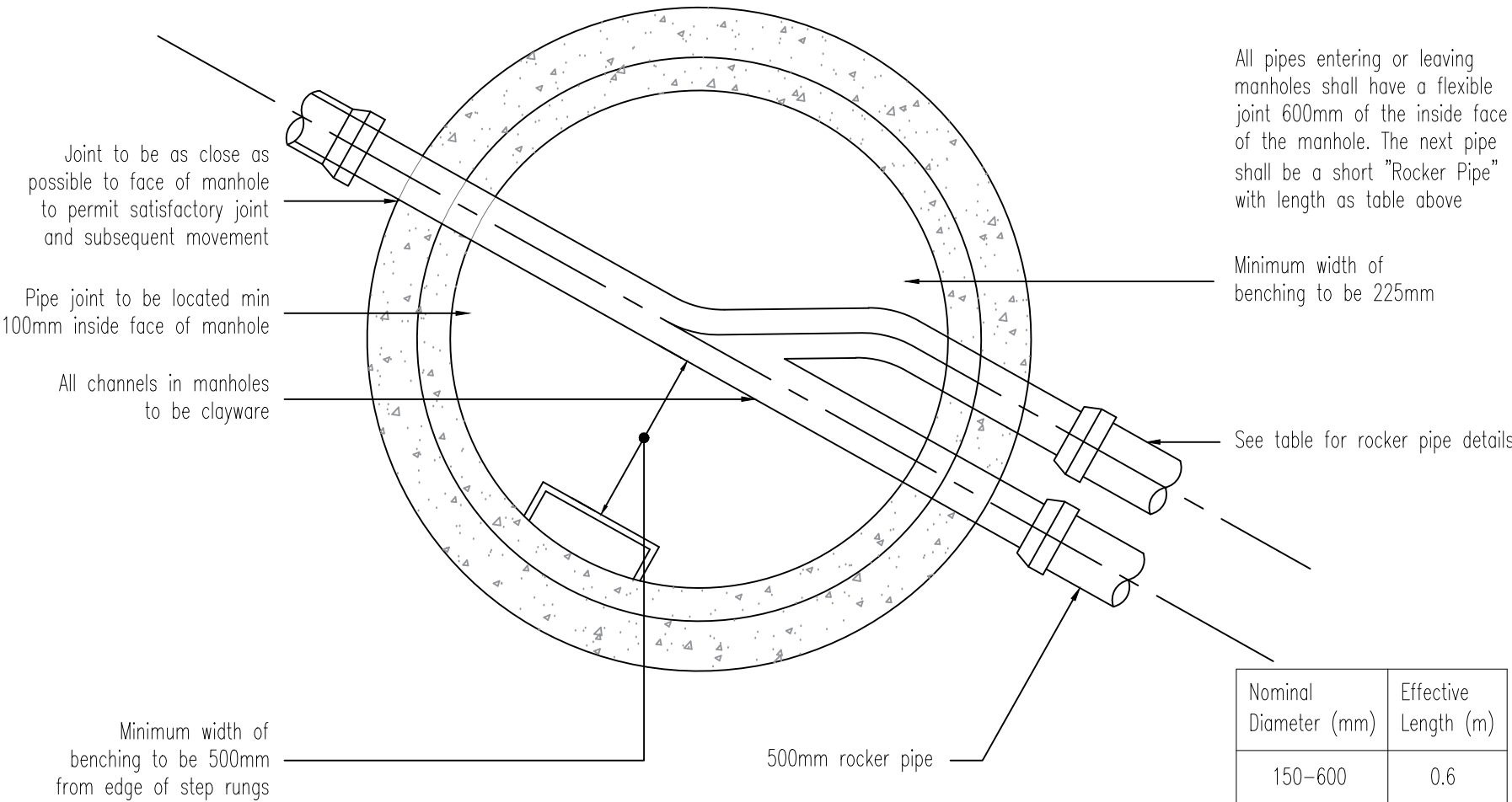
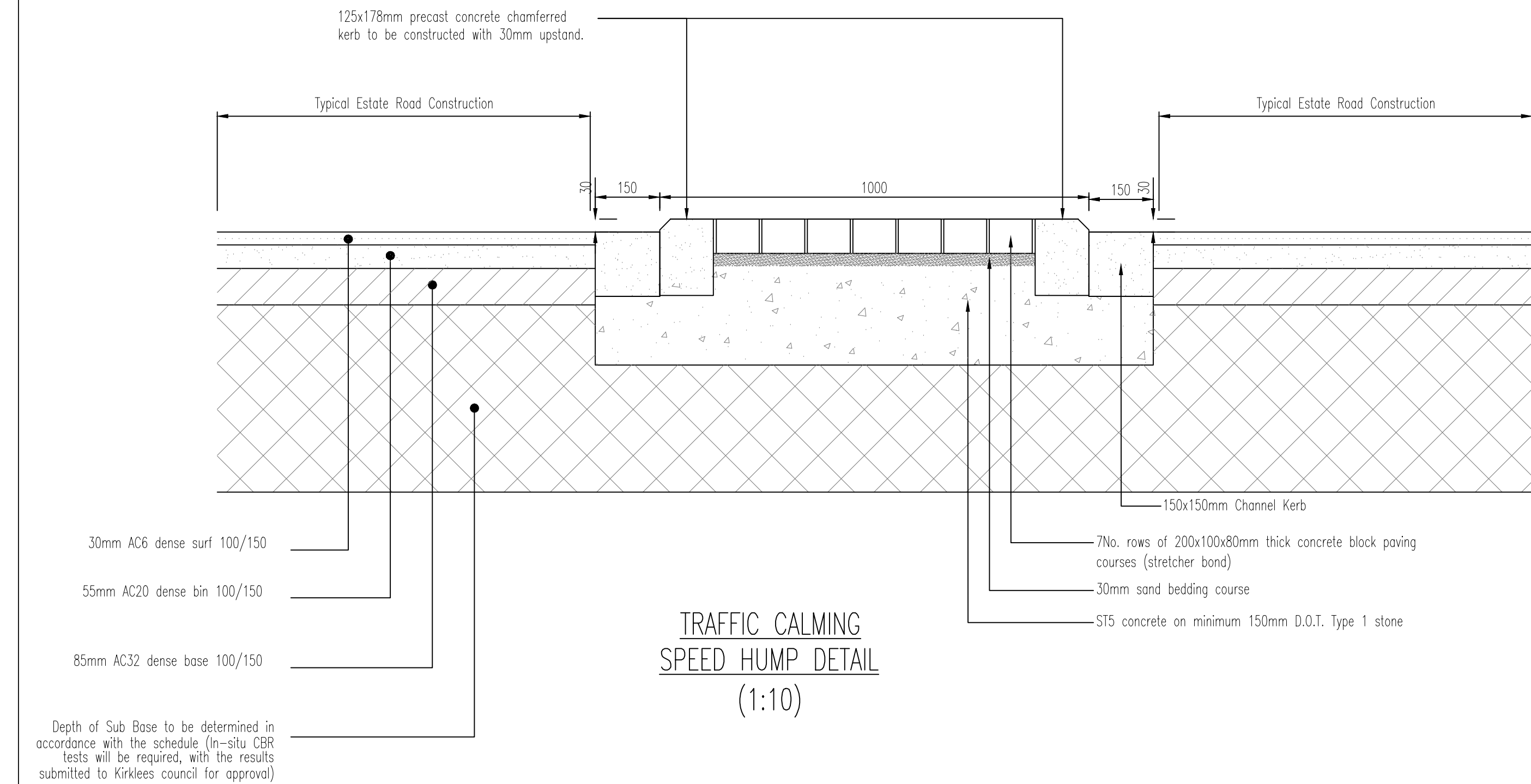


Processed granular bedding and sidefill materials for flexible pipes.

Pipe nominal bore (mm) see note (d)	Nominal maximum particle size (mm)	Materials specified in British Standards see note (a)
100	10	10mm nominal single size
Over 100 to 150	15	10-14mm nominal single size or 14mm to 5mm graded
Over 150 to 300	20	10-14mm or 20mm nominal single size or 14mm to 5mm graded or 20mm to 5mm graded
Over 300 to 500	20	14 or 20mm nominal single size or 14mm to 5mm graded or 20mm to 5mm graded
Over 550	40	14 - 20mm or 40mm nominal single size or 14mm to 5mm graded or 20mm to 5mm graded or 40mm to 5mm graded

Notes:

- (a) Processed granular materials to include aggregates to BS 882, air-cooled blast furnace slag to BS1047 and lightweight aggregates to BS 3797
- (b) For the purpose of this table, PE pipe of 630mm O.D. can be regarded as having nominal bores of over 550mm, irrespective of wall thickness.
- (c) Nominal bore is used in preference to DN because of the different nominal size classifications for flexible pipes



TYPICAL MANHOLE DETAIL-TYPE C SHALLOW MANHOLE

CODE FOR ADOPTION (2020)

Max depth from ground level to soffit of pipe less than 1.5m
The design of the manhole will need to comply with the undertakers safety policy

D	MD	17.04.25	Amended to S38 comments, HW MH added	MD	MI
C	MD	25.02.25	Amended to Kirklees Council comments	MD	MI
B	JC	23.09.24	Amended to Kirklees Council comments	MD	MI
A	MB	04.11.21	Amended to suit section 104 comments	MI	MI
/	RJ	19.04.21	Issued for approval	MI	MI
Rev	By	Date	Revision	Chk	Apvd

ARP ARP ASSOCIATES
Chartered Consulting Engineers

Northwest House ● 5 & 6 Northwest Business Park ● Servia Hill, Leeds ● LS6 2QH
0113 245 8498 0113 244 3864 leeds@arpassociates.co.uk www.arpassociates.co.uk
ARP Associates is a trading division of ARP Geotechnical Ltd, a company registered in England and Wales with company number 3771811, whose registered office is at 5/6 Northwest Business Park, Servia Hill, Leeds LS6 2QH

TITLE TYPICAL HIGHWAY CONSTRUCTION DETAILS SHEET 2 OF 2

PROJECT PLANE STREET, HUDDERSFIELD

CLIENT UNITY HOUSING ASSOCIATION

DRAWING STATUS PRELIMINARY

Scale	Date	Drawn	RJ
AS SHOWN @ A1	APR 21	Chk.	MI

Drg. No.	257/02/04.02	Rev	D
----------	--------------	-----	---

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES