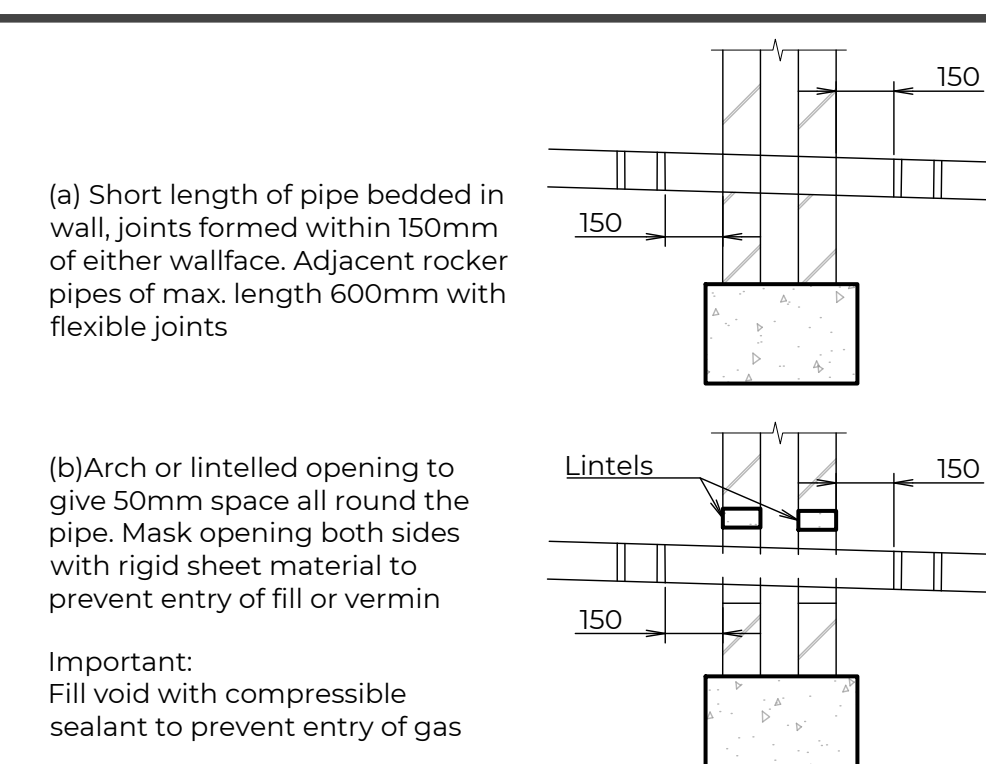
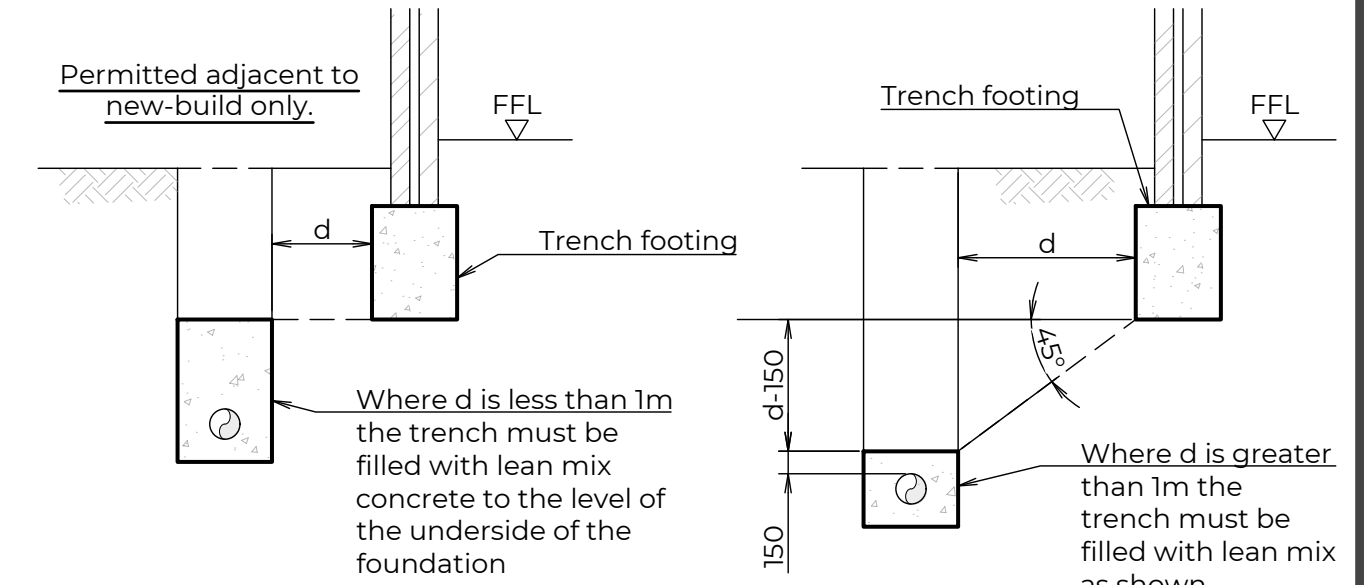


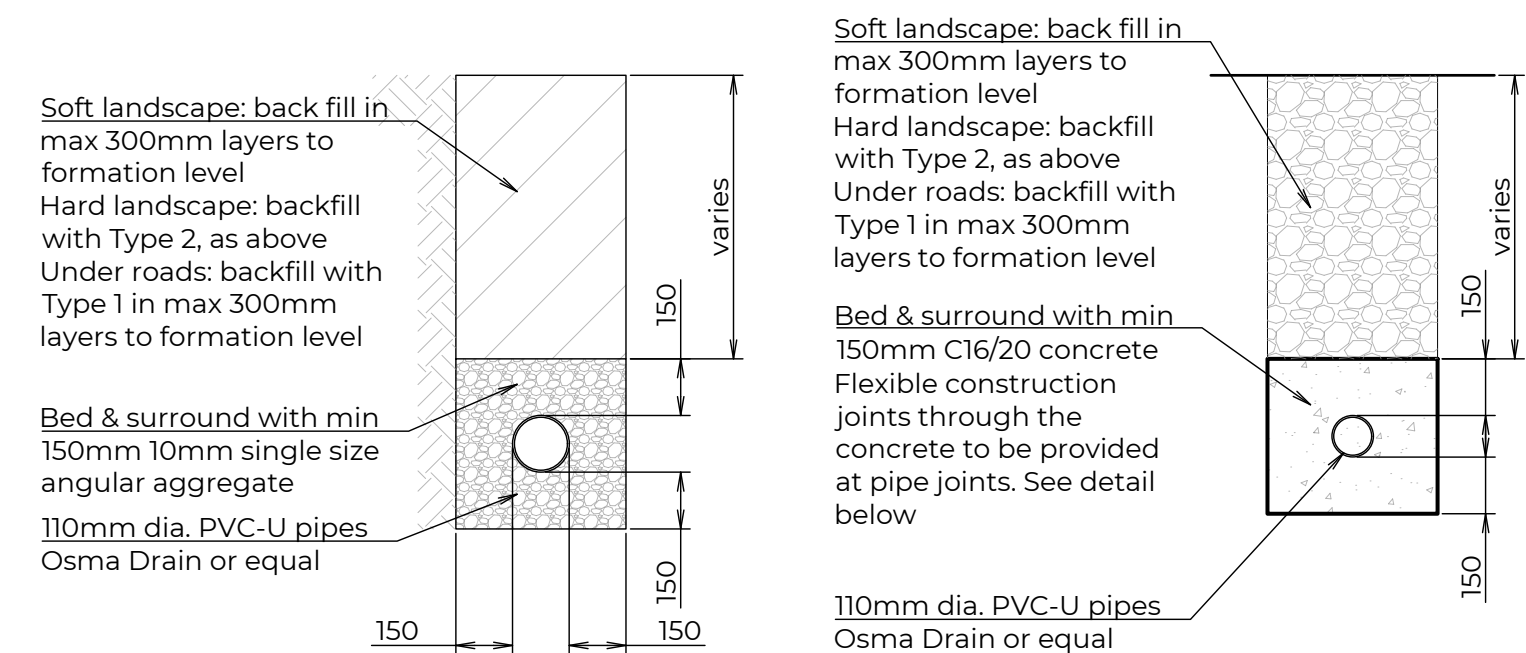


Where a trench excavation is less than 1m from a wall foundation, or more than 1m but within a 45° spread line then a concrete bed and surround, and concrete trench backfill will be required to comply with the following details:

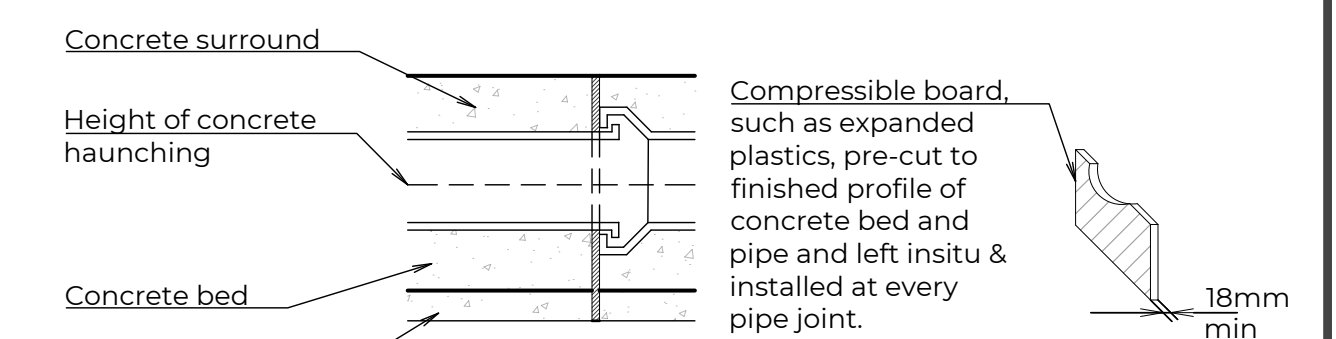
the concrete filling must have movement joints at a maximum of 5m centres, and preferably every pipe joint.



PIPES PASSING THROUGH STRUCTURES



PRIVATE DRAINAGE - 1100
CLASS 7 BEDDING



Soft landscape reinstated - cover not suitable for vehicle trafficking

100mm thick coarse sand to sides and overlay

Aquacell® Core-R (or equal) modular system suitable for traffic loading, to be brick bonded and sealed with Geosynthetic Aquablock membrane (or equal) with taped joints, all wrapped in Ekotex 07 geotextile (or equal) protection layer

Ground level

150 cover

3 crates (1.2m)

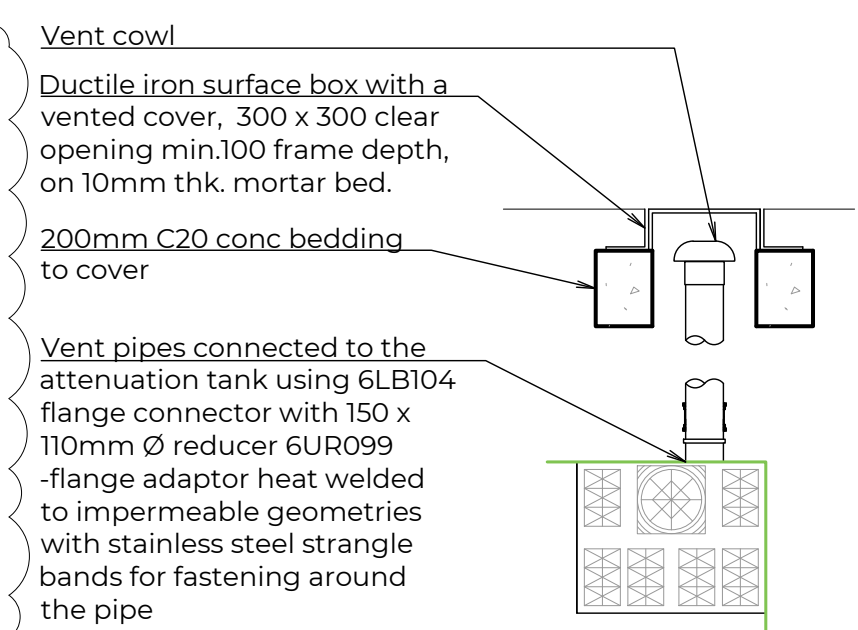
Central line of inspectable Aquacell® Plus R units to facilitate CCTV access and jetting

Units bed on 100mm thick coarse sand

Out

AQUACELL ATTENUATION CRATES

120



Lever locking stopper attached to MH wall with chain and staple

IL varies - see table

Socket adaptor cut to suit

Curved square junction

Pipe cut to suit

Half channel

IL varies - see table

Soft landscape: backfill in max 300mm layers to formation level

Hard landscape: backfill with Type 2, as above Under drains: backfill with Type 1 in max 300mm layers to formation level

Bed & surround with min 150mm 10mm single size angular aggregate

110mm dia. PVC-U pipes
Osma Drain or equal

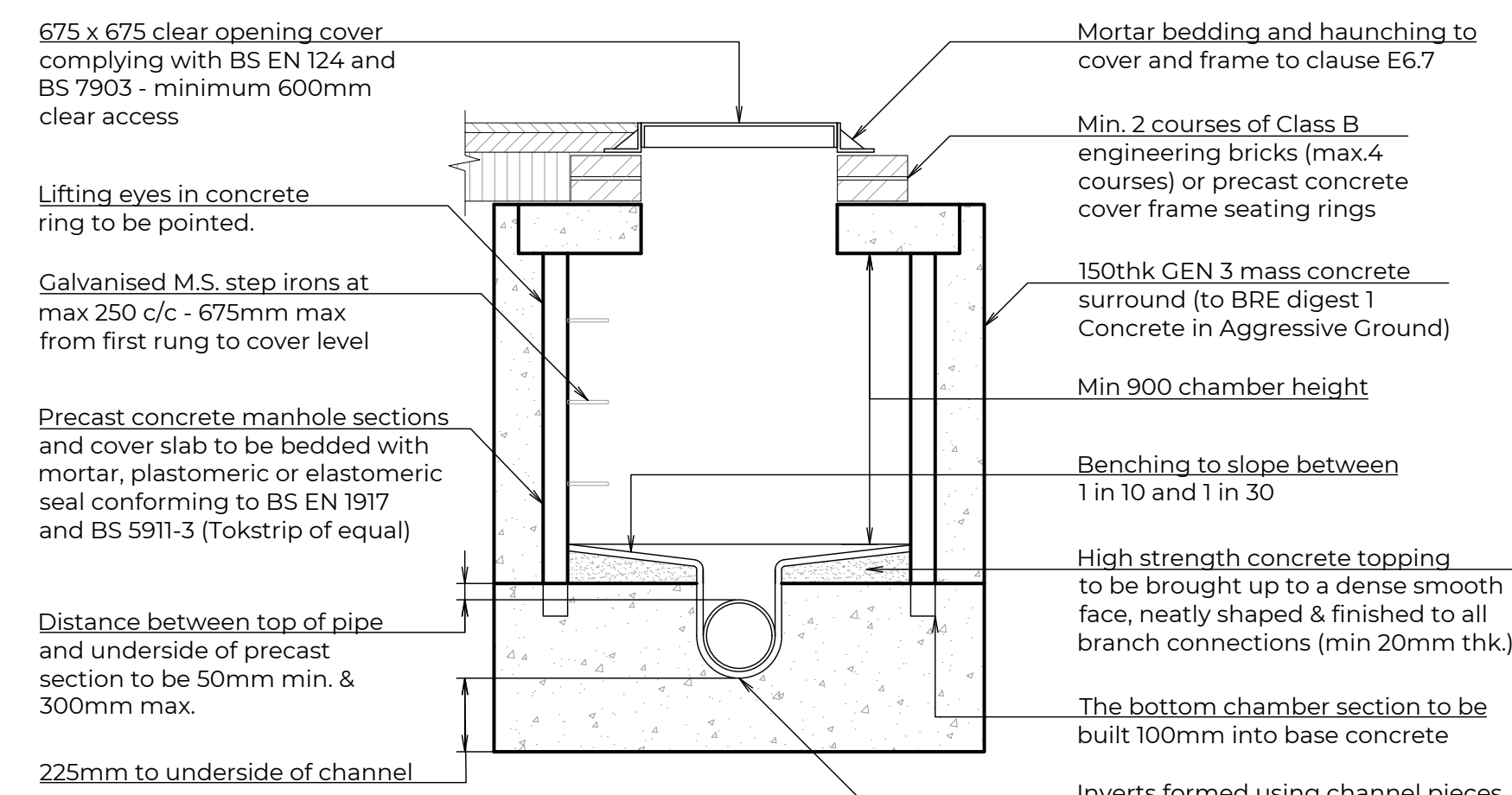
150

150

150

varies

PRIVATE DRAINAGE - 110Ø
CLASS S BEDDING



Concrete bedding to extend to the length of 1 no. pipe in each direction

150

100

50

Concrete surround, form joints in surround at flexible joints in pipe, with 18mm compressible board.

150

100

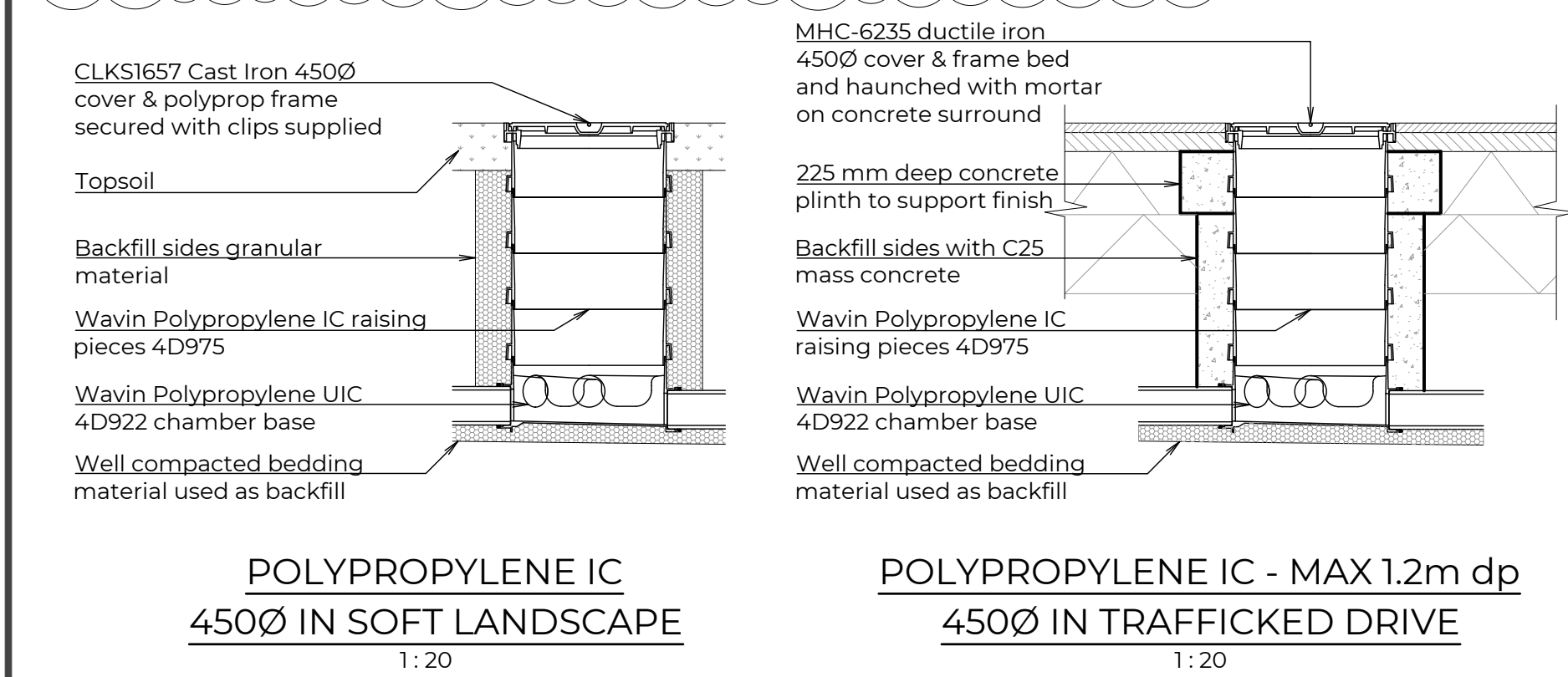
50

25mm Blinding concrete material to BS 882.

Lay pipes on folded wedges of compressible board.

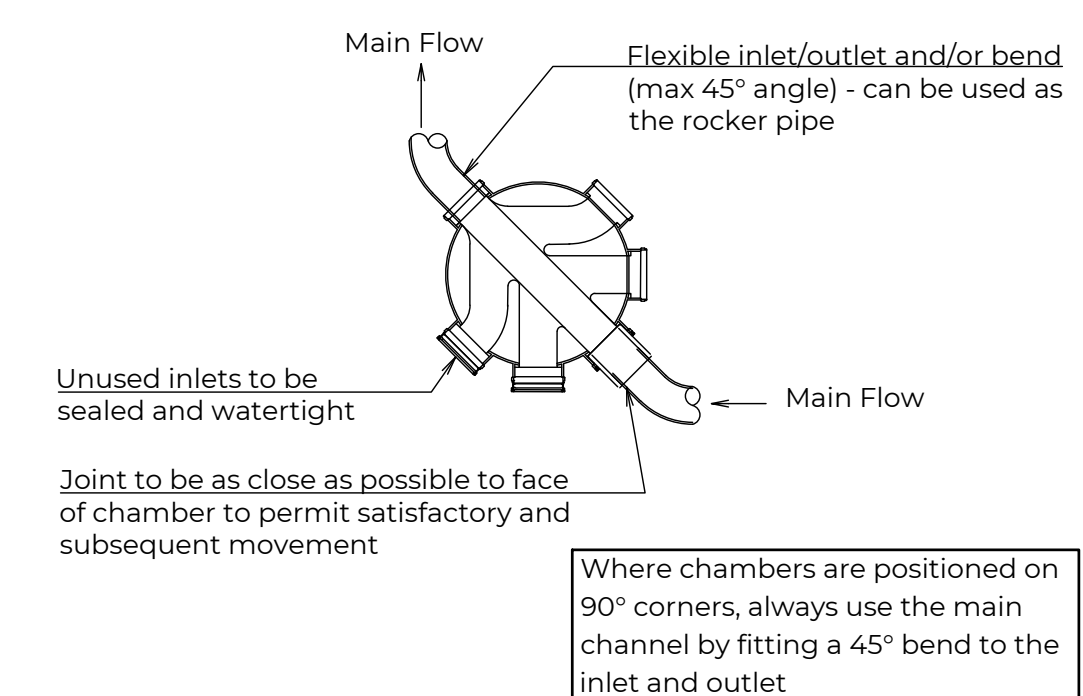
PIPE BEDDING AND SURROUND WHERE PIPES CROSS

NOTE: This detail is to be used where pipes cross with less than 300mm clear distance. where clear distance is greater than 300mm use standard beddings & surrounds as shown above.

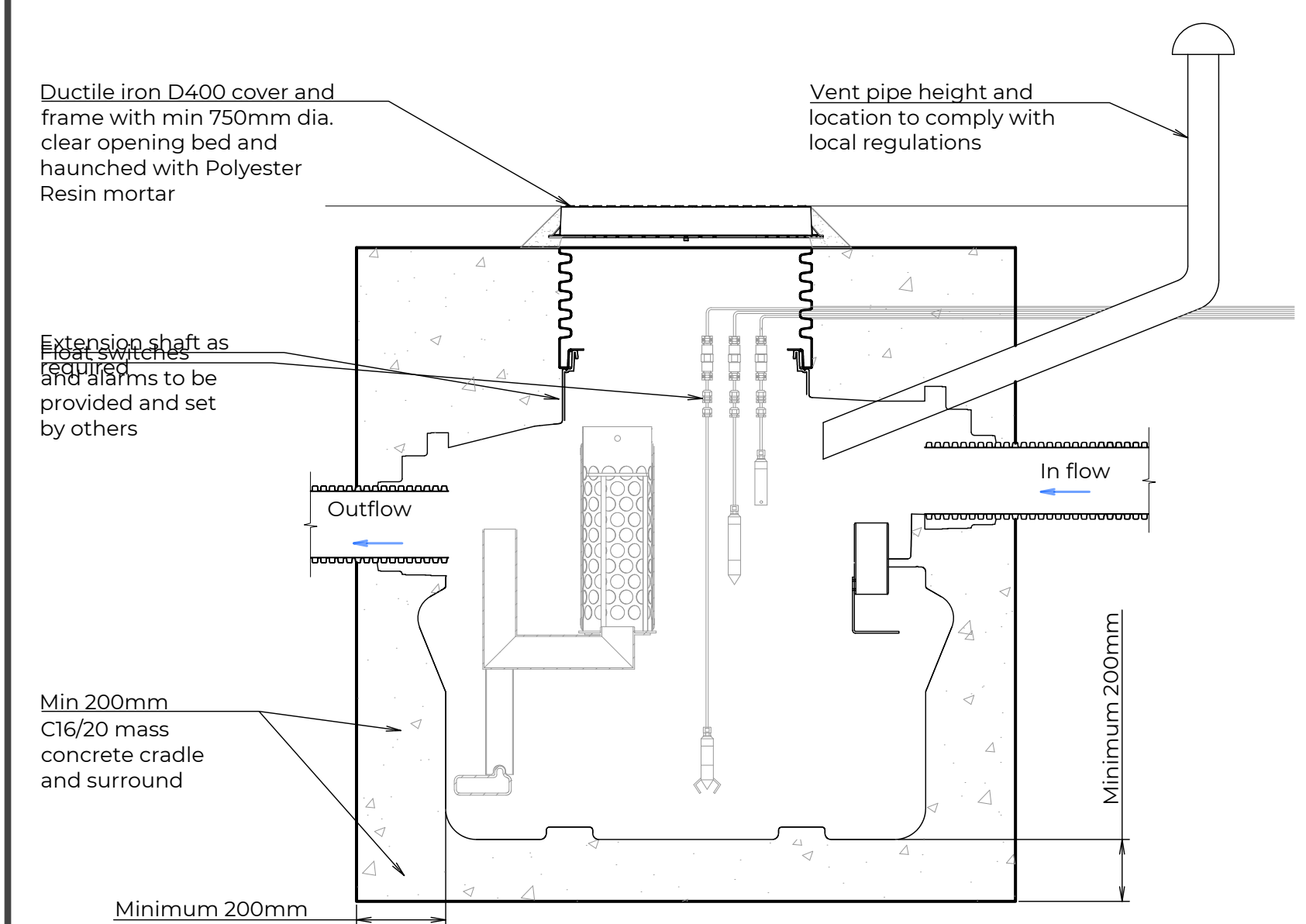


POLYPROPYLENE IC
450Ø IN SOFT LANDSCAPE

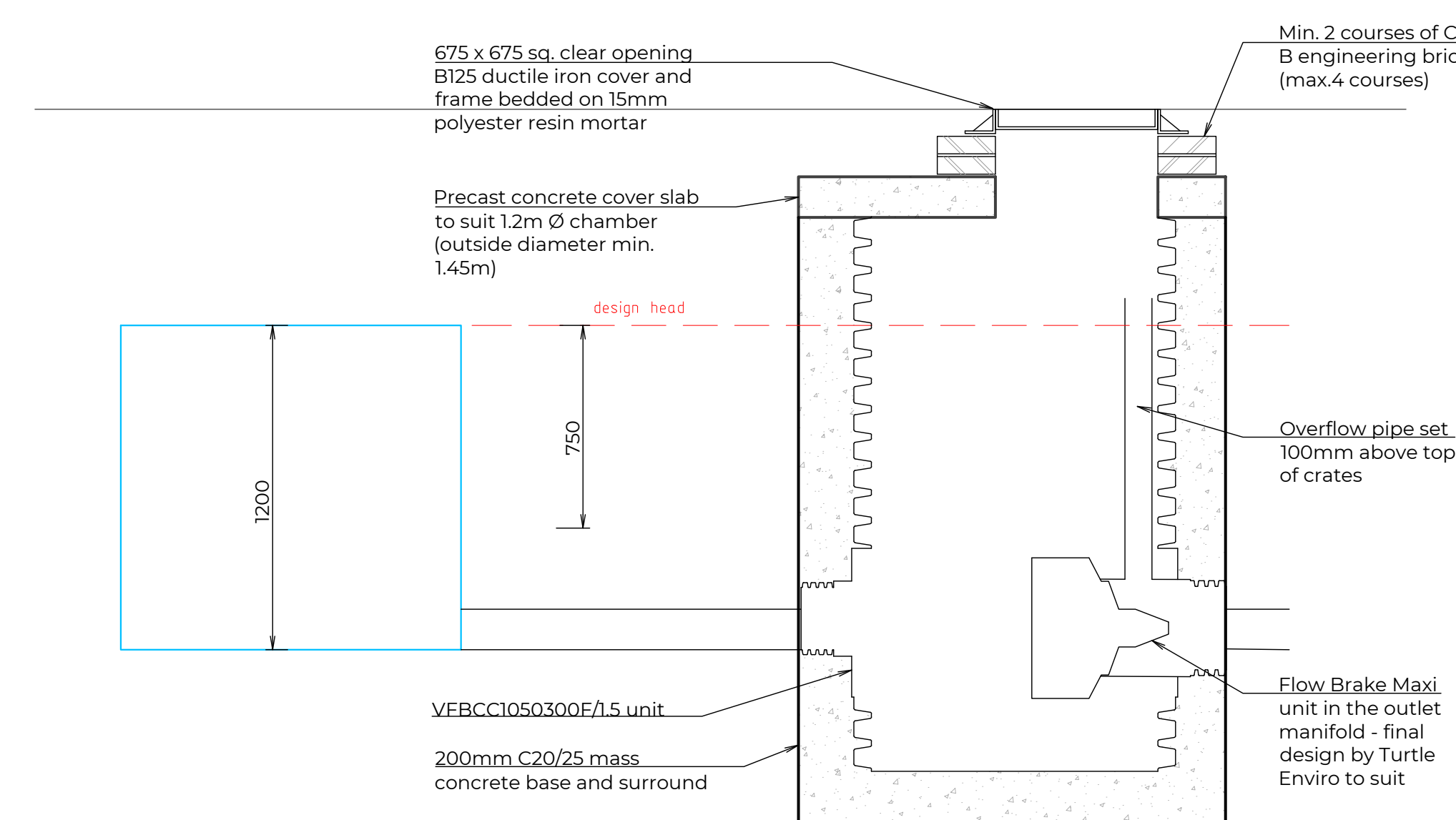
POLYPROPYLENE IC - MAX 1.2m dp
450Ø IN TRAFFICKED DRIVE



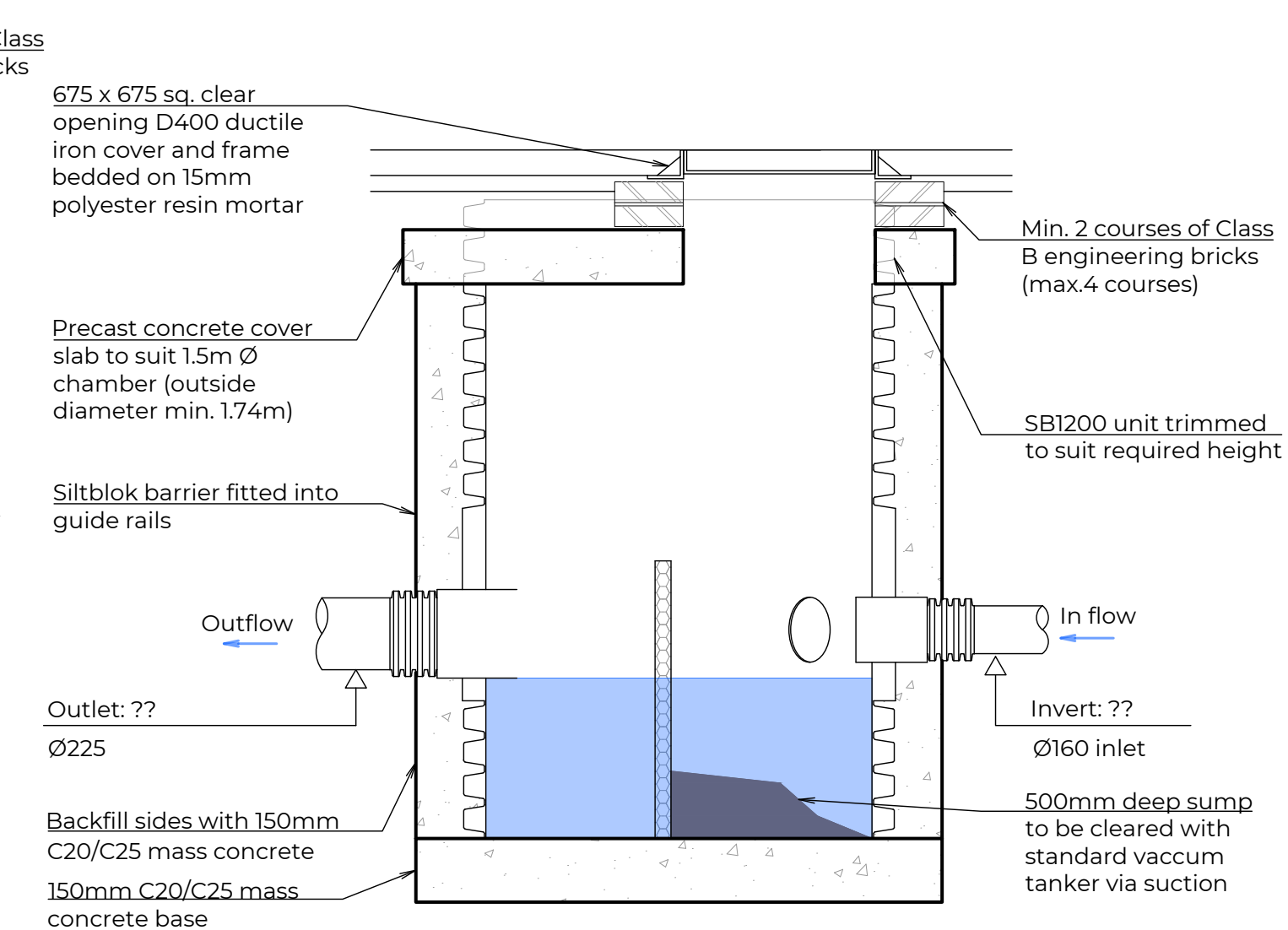
PLASTIC IC BASE LAYOUT PRICIPLES



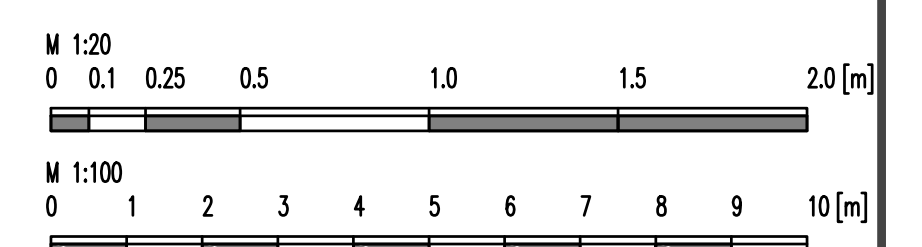
INDICATIVE SECTION THROUGH
ACO Q-CEPTOR BY-PASS SEPARATOR



TURTLE ENVIRO VORTIFLO Ø1200 FLOW CONTROL CHAMBER



TURTLE ENVIRO SILT BLOK 1200 SILT CONTROL CHAMBER



P2	28/11/24	Crate attenuation moved	CB	CJB
P1	28/11/24		CB	CJB
REV	DATE	REVISIONS	REV BY	CHK BY
This drawing is the copyright of Andrew Warrings Associates. It may not be copied, altered or reproduced in any way without their written authority. Dimensions must be checked on site and not assumed from this drawing. © COPYRIGHT  Consulting Engineers STRUCTURAL - CIVIL - MARINE Engineering, Hampshire - Bath, Somerset 0796 15427 01252 251888 email@warringshamp.com www.warringshamp.com				
ARCHITECT CLIENT JOB TITLE DWG TITLE STATUS				
EXL Project Management Wildwood Land Group Ltd WILWOOD MACHINERY, EAST HORTON GOLF COURSE - DRAINAGE DRAINAGE DETAILS PRELIMINARY				
DWG NO 13815-102			REV P2	
SCALE 1:100 & 1:20 @ A1		DATE NOVEMBER 2024	DRAWN BY CJB	CHECKED BY CJB