ISO FULL BLEED A3 420 X 297 MM

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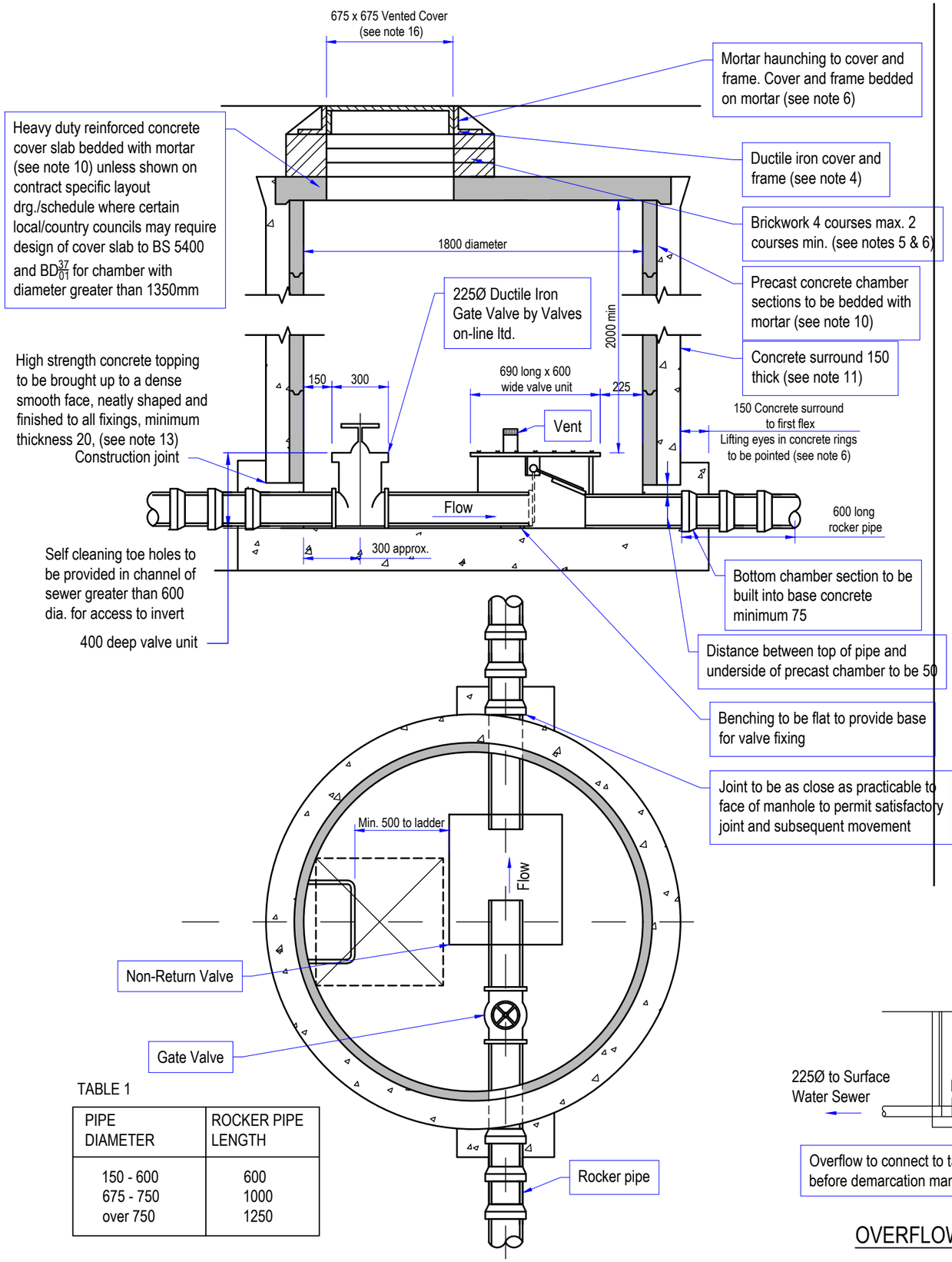
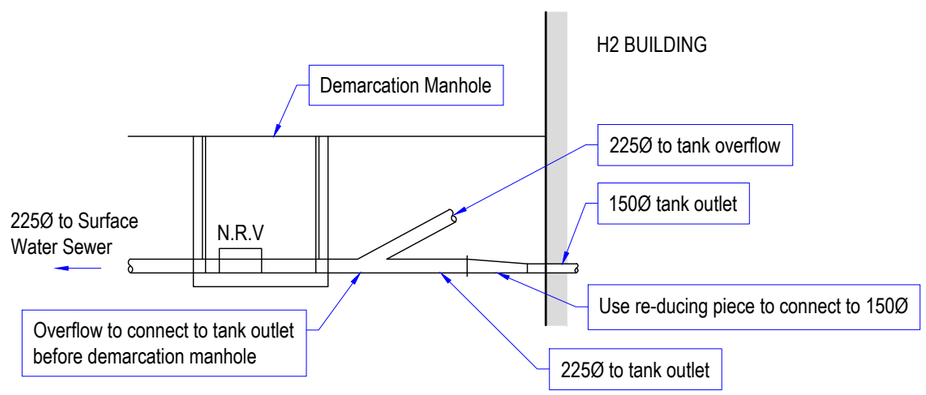


TABLE 1

PIPE DIAMETER	ROCKER PIPE LENGTH
150 - 600	600
675 - 750	1000
over 750	1250

NOTES

1. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. For undated references, the latest edition of the publication referred to applies.
2. This drawing is to be read in conjunction with all other relevant drawings and specification.
3. Do not scale from this drawing, use figured dimensions only. All dimensions are in millimetres.
4. MANHOLE COVERS AND FRAMES - shall comply with the relevant provisions of BS EN 124. They shall be of a non-rocking design which does not rely on the use of cushion inserts. Class D400 covers shall be used in carriageways of roads (including pedestrian streets), hard shoulders and parking areas used by all types of road vehicle. Class B125 shall in footways, pedestrian areas and comparable locations. Minimum frame depths for NRSWA road categories I to IV shall be 150mm (except residential cul-de-sacs where the minimum frame depth shall be 100mm). All manholes covers shall be the non-ventilating type and have closed keyways. In verges covers shall be positioned on the side furthest from the carriageway.
5. BRICKS - shall be Class B Engineering complying with the relevant provisions of BS 3921. All bricks shall be frost resistant category F.
6. MORTAR - shall be mixed only as and when required, in the proportion 1:3 cement: sand by volume. All mortar shall be conveyed fresh to the Works as required for use. Mortar which has begun to set or which has been mixed for a period of more than 1 hour shall not be used.
7. SANDS FOR MORTAR - shall be washed sand, complying with BS 1200 and graded in accordance with Table 1 of that Standard.
8. CEMENT (for in-situ concrete and mortar) - shall be sulphate resisting Portland cement (SRPC) complying with BS 4027.
   CEMENT (for precast concrete pipes or manholes) -
   shall be a combination of cement conforming to BS 12 and g.g.b.s or p.f.a or cement conforming to BS 4027 alone to meet up to and including Design Sulphate Class DS-3 as defined in BRE Special Digest 1, 2001.
9. WATER FOR USE WITH CEMENT - shall be of potable quality.
10. PRECAST CONCRETE MANHOLE COMPONENTS - shall comply with the relevant provisions of BS 5911-200 Units which bed into bases shall be manufactured so that imposed vertical loads are transmitting directly via the full wall thickness of the unit. For joints between units and underside of slabs, joint profiles shall be capable of withstanding applied loadings from such slabs, and spigot-ended sections shall only be used where the soffitt of the slab is recessed to received them.
11. IN SITU CONCRETE - standardised prescribed concrete mix ST4 (un-reinforced) in accordance with BS 8500-2 and BS EN 206-1 shall be used with a 20mm nominal maximum size of aggregate and a class S2 (75mm) slump. Admixtures (including calcium chloride and pigments) shall not be used in the production of concrete. Compressive strength testing shall not be used to judge the compliance of a concrete, but where required by the adopting authority, the contractor shall provide evidence of the batch masses used to produce any concrete.
    NB: Standardised prescribed concrete produced using sulphate-resisting Portland cement is not intended to produce sulphate-resisting concrete. Where the design sulphate class is higher than Design Chemical Class DS-2, in-situ (and precast concrete, where applicable) shall be as designated on the contract specific drainage layout drawing, manhole schedule or specification.
12. AGGREGATES FOR CONCRETE - shall comply with the relevant provisions of BS 882*.
13. HIGH STRENGTH CONCRETE TOPPING - shall be produced, laid and finished in accordance with the relevant provisions of BS 8024 Part 2 and the following approximate mix proportions by weight shall be used: 1 part cement,1 part natural sand and 2 parts single sized coarse aggregate.
14. AGGREGATE FOR HIGH STRENGTH CONCRETE TOPPING - shall comply with BS 882* and be 10mm nominal size, graded in accordance with Table 6 of that Standard. *When this standard is superseded by EN 12620, the aggregates shall follow the recommendations in the UK national guidance to EN 12620.
15. Outgoing pipes shall be fitted with guard bars, safety chains or other safety devices in accordance with the adopting authority's policy. Stainless steel safety chains shall be manufactured from Grade 316S31 steel complying with BS 970-1. Chain links shall be welded and have an internal length not exceeding 45mm and an internal width of between 12mm and 16mm. The fins caused by welding shall be removed and the weld shall be smoothly finished all round. When tested in accordance with Clause 7.3 of BS 4942-2, each chain shall withstand a breaking force of 30kN and a proof force of 15kN.
16. Minimum clear opening shall be in accordance with the adopting authority's policy.
17. The adopting authority's standard details, where they exist, shall be used in preference to this standard detail.
18. All adoptable works shall be carried out in accordance with Sewers for Adoption 6th Edition.
19. All the above requirements shall apply unless otherwise stated in the drainage layout drawing, manhole schedule or specification. In the event of a contradiction the contract specific documents shall be deemed to prevail.
20. Gate valve and non-return valve to be set in concrete base to half depth or bolted to base, as manufacturer's recommendations.
21. Gate valve to be left open on handover.



OVERFLOW CONNECTION CONFIGURATION

REV	DATE	REVISION DESCRIPTION / DETAILS	DRN BY	CHKD BY	APRVD BY

Southwark Council
southwark.gov.uk
160 TOOLEY STREET LONDON SE1P 5LX

PROJECT: SOUTHWARK STREETSCAPE DESIGN MANUAL STANDARD DETAILS

TITLE: DEMARCATION MANHOLE WITH NON-RETURN VALVE

STATUS: DRAFT		DRAWN	SR
		DESIGNED	-
SCALE: N.T.S.		CHECKED	GL
		APPROVED	-
DRAWING NO: LBS/500/26		REV: R0	
DATE DRAWN: AUGUST 2017	DATE ISSUED: 20 Feb 2019		

S:\HIGHWAYS\MAINTENANCE\SSDM\02-SSDM_CONTENT_ARCHIVE\REVISION OF SSDM\TECH DRWGS\STD DETAILS\SERIES 500\DRAINAGE & SERVICE DUCTS\DWG\LBS-500-26 DEMARCATION MANHOLE WITH NONRETURN VALVE.DWG