

SPECIFIC MANHOLE DETAIL - SW33

Depth from cover level to soffit of pipe less than 1.356m.

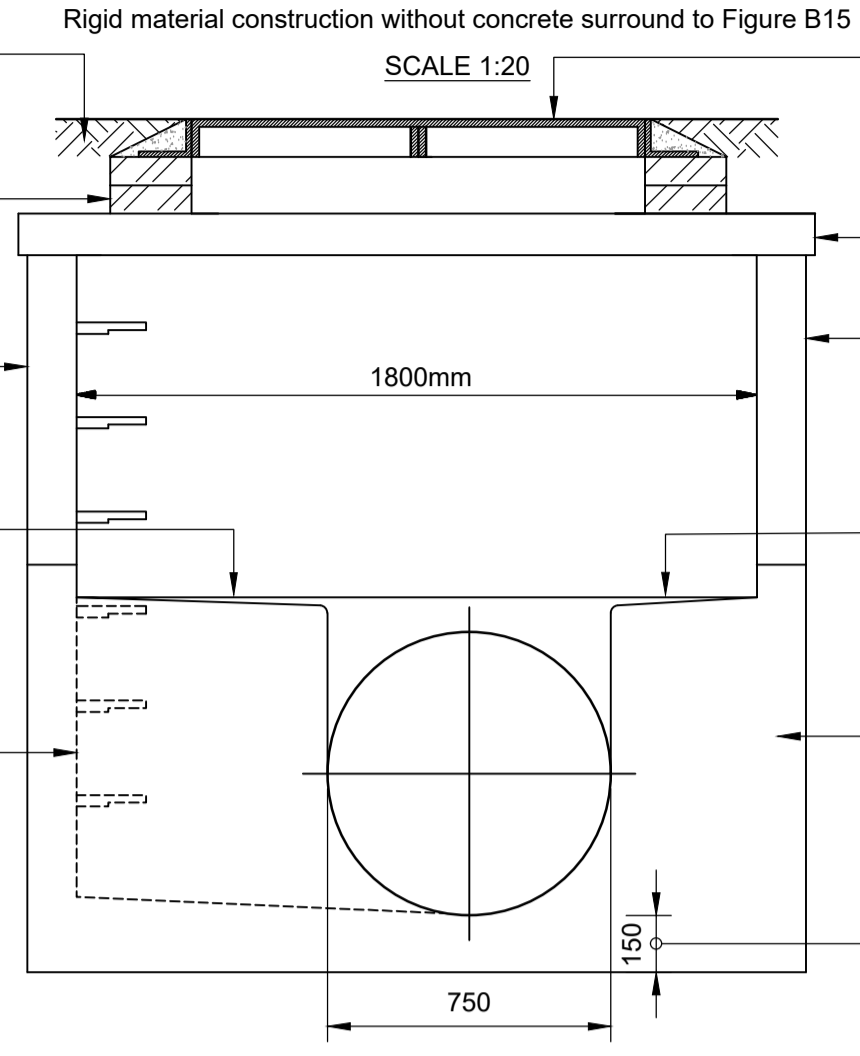
Mortar bedding and haunching to cover and frame to clause E6.7.

Minimum 1 course of Class B engineering bricks or precast concrete cover frame seating rings.

All lifting eyes in concrete to be pointed

Surface of benching channel formed monolithically with high strength concrete base or a proprietary liner.

Where channel exceeds 600 wide a box out shall be formed to invert level and the step rungs continued down.



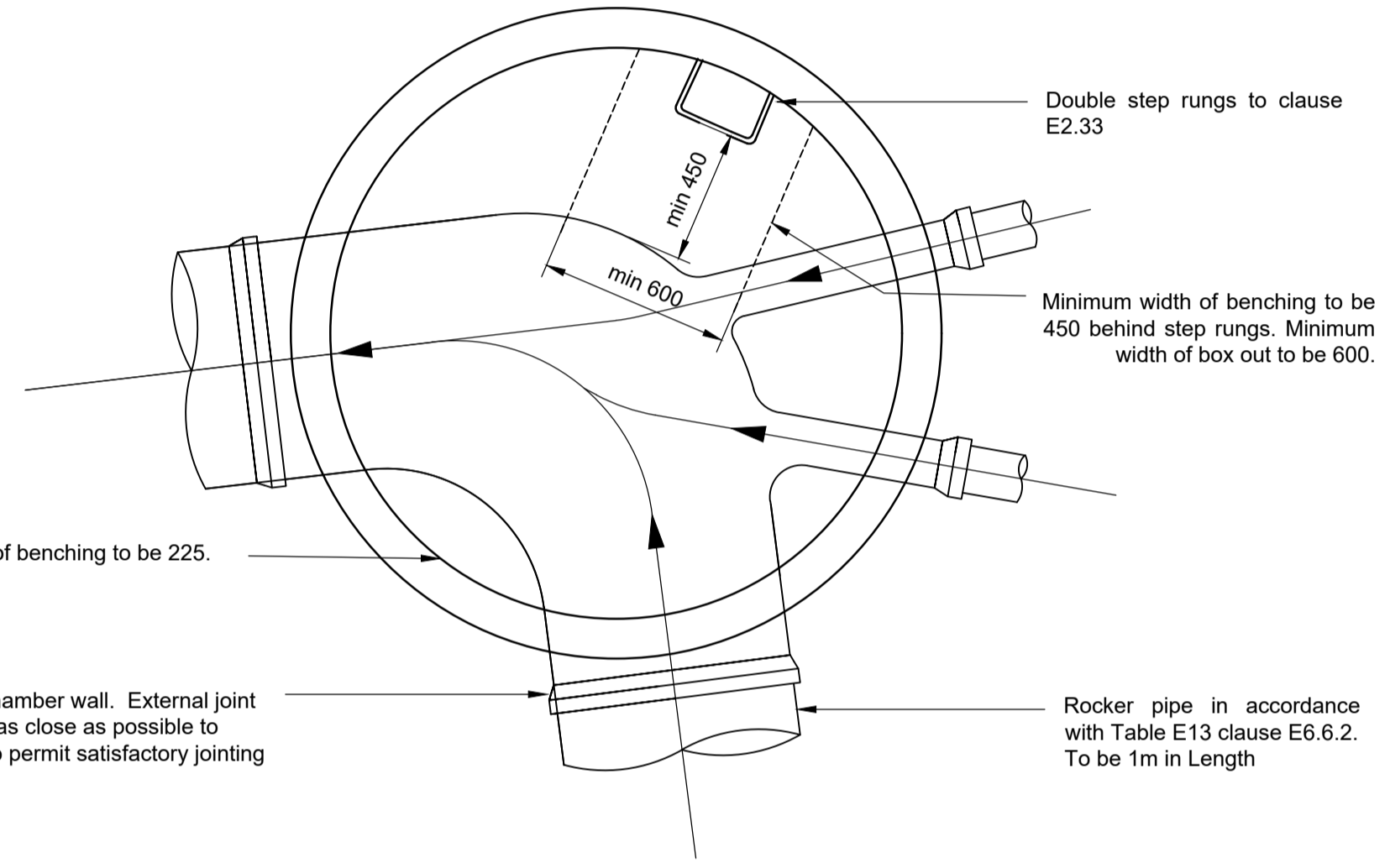
Rigid material construction without concrete surround to Figure B15
SCALE 1:20
D400 1220 x 685 multiple ductile iron cover and frame to clause E2.32. Frame depth to be 150.

Precast concrete cover slab to clause E2.30.
Precast concrete chamber sections to clause E2.29 jointed with mortar, elastomeric or plastomeric seals. Chamber wall sections to be min. 125 wide.

Benching slope to be 1:10 to 1:30

Precast concrete base unit

Min 150 to underside of channel



Double step rungs to clause E2.33

Minimum width of benching to be 450 behind step rungs. Minimum width of box out to be 600.

Minimum width of benching to be 225.

Pipe through chamber wall. External joint to rocker to be as close as possible to chamber wall to permit satisfactory jointing

Rocker pipe in accordance with Table E13 clause E6.6.2. To be 1m in Length

ALL MANHOLES ARE TO BE DESIGNED IN ACCORDANCE WITH DCG SPECIFIED DETAIL UNLESS OTHERWISE STATED

Precast concrete manhole rings will not be cut under any circumstances. Other options, manholes built up with concrete or brickwork to the top of the pipe.

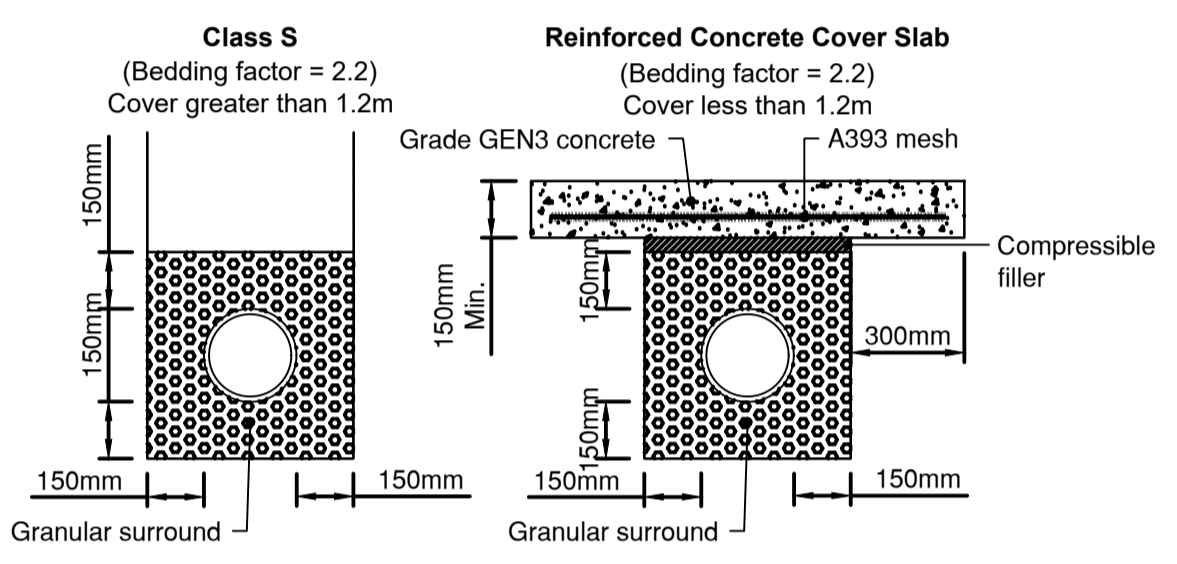
All materials used are to be BS kite marked

Typical Pipe Bedding Details

N.T.S

Notes:

- Any suitable excavated material used as backfill to be approved on site by engineer.
- Granular surround to be single sized aggregate, 10 or 14mm in size.
- Trench in Public Highway: Where depth from GL to crown of pipe is less than 1.2m Grade GEN3 concrete cover slab is to be used.
- Trench in Private Land: Where depth from GL to crown of pipe is less than 0.9m in vehicle trafficked areas and less than 0.6m in soft landscaped areas, bed and surround in C20 concrete is to be used.
- Compressible filler to be bitumen impregnated insulating board to BS1142 or similar approved.



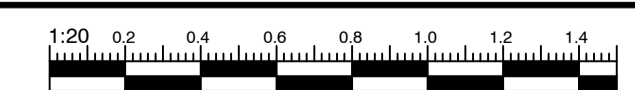
UNTIL TECHNICAL APPROVAL HAS BEEN GRANTED BY THE RELEVANT LOCAL AUTHORITIES AND STATUTORY UNDERTAKER, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS FOR APPROVAL AND NOT FOR CONSTRUCTION. ANY WORKS TO COMMENCE PRIOR TO APPROVAL BEING GIVEN, IS AT THE CLIENT'S RISK.

GENERAL NOTES

- Do not scale this drawing. If in doubt, ask.
- This drawing is to be read in conjunction with all other relevant Engineers, Architects and specialist design drawings and details.
- All dimensions are in metres unless noted otherwise. All levels are in metres unless noted otherwise.
- Any discrepancies noted on site are to be reported to the Engineer immediately.
- The Contractor shall check all tie-ins for line and level with existing before commencing any works. The Engineer shall be notified immediately in writing, should any errors be found.
- It is the responsibility of the Contractor to locate any service apparatus in the vicinity of the works. Rodgers Leak will accept no claims whatsoever in respect of any losses or damage caused in respect of such apparatus, however caused.
- It is the responsibility of the Contractor to execute the works at all times in strict accordance with the requirements of the Health And Safety At Work Act 1974, and the C.D.M. Regulations 2015. The Contractor will be deemed to have allowed for full compliance, including full liaison with the Principal Designer within his rates.
- The Contractor is responsible for ensuring that all works are to the satisfaction of the site Engineer, and shall be deemed to have included within his rates for any necessary testing.
- The Contractor will be responsible for providing all necessary de-watering and trench support to execute the works in a satisfactory manner, and shall be deemed to have allowed for the same within his rates.
- All buried concrete products and mortar shall be made using sulphate resisting cement.
- No deep rooted trees or shrubs to be planted within 5m of a public or prospective public sewer.
- All highway works to be carried out in accordance with NCC Design guide and Specifications.
- Traffic signs and road markings shall comply with the requirements of chapters 3, 4 & 5 of the Traffic Signs Manual as modified by the Traffic Signs Regulations and General Directions 2016.
- All road markings shall be laid in thermoplastic screed with added ballast and shall comply with the requirements of cl. 1212 of the Specification for Highway Works.
- Sewers shall be constructed to the satisfaction of Severn Trent Water and in accordance with the Design and Construction Guidance (DCG) with no variation allowed.
- All pipes 300mm dia or less shall be Extra Strength Vitrified Clay. Pipe joints shall be spigot and socket flexible joints. Sleeve type joints will not be permitted. Above 300mm to be class 120 concrete.
- All pipes shall be laid with soffits level unless stated otherwise.
- Design subject to approval by Nottinghamshire County Council and Severn Trent Water.
- Where pipe crossing, plastic membrane to be used for protection to eliminate any chances of cross contamination.
- Infill covers and frames within block paved areas are not to be used.
- Easements at any change of width should be 2.5m either side of pipes up to 300mm Ø, and 5m either side of pipes greater than 300mm Ø.
- All manhole covers to be 675mm x 675mm cover and frame to maintain 600x600mm clear opening, unless otherwise stated, in accordance with the BS EN 124 Class D400 and embossed FW or SW as appropriate.
- Covers and frames to be kitemarked.
- Protective concrete cover slabs to be used on pipes in non-trafficked areas which don't achieve 900mm cover and in trafficked areas that don't achieve 1200mm cover.
- Precast concrete manhole rings are not to be cut under any circumstances.
- Sewers or lateral drains should not be located closer to trees/bushes/shrubs than the canopy width at mature height, except where special protection measures are provided, in accordance with B7.6.
- All drainage offered for adoption has been designed to not attenuate flows in excess of 1:30 year storm return period.
- No backdrop connections to the adoptable network.

WARNING TO PURCHASERS. Property Misdescriptions Act 1991
Images and site layout are intended for illustrative purposes only and should be treated as general guidance only.

Rev	Description	Initial	Date
A	Revised to suit STW comments - DCG specified chambers taken off	JZ	28.05.21
B	Additional notation	MJA	30.11.21
C	Additional notation	MJA	16.12.21



S104 STANDARD DETAILS SHEET 1

STONEBRIDGE

BARRATT HOMES

DAVID WILSON HOMES
WHERE QUALITY LIVES

Drwg No. **H8064-329-01** Rev **C**
Scale 1:20 @ A1 Date 12.02.21
Drawn by MJA Checked by NMF

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