YW REF - S104-2025-022

This drawing is to be read in conjunction with all other relevant documentation.
**Do not Scale**
All setting out by contractor. Report all discrepancies to bdi Structural Solutions.
**Drawing Copyright of BDI Structural Solutions** ©
Client required to comply with requirements of Party Wall Act as required by nature of work.

## NOTES

| | | | | | |
|---|---|---|---|---|---|
| EX GROUND LEVEL | 206.300 | 206.459 | 206.924 | 208.200 | 207.653 | 208.049 |
| SW COVER LEVEL | 207.000 | | 207.000 | 207.860 | 207.940 | 208.165 |
| SW INVERT LEVEL | 205.300 | | 205.300 | 205.183 | 204.772 | 204.659 |
| SW PIPE DETAILS | 1.001A DIA 300mm, VC, CLASS 'S' BEDDING 2m | | 1.001 DIA 300mm, VC, 1:150 FALL, CLASS 'S' BEDDING 18.8m | | 1.002 DIA 300mm, VC, 1:150 FALL, CLASS 'S' BEDDING 39.2m | | 1.003 DIA 450mm, VC, 1:150 FALL, CLASS 'S' BEDDING 17m | |
| SW LENGTHS | | | 18800 | | 39200 | | 17000 | |
| FW COVER LEVEL | | | | | | | | |
| FW INVERT LEVEL | | | | | | | | |
| FW PIPE DETAILS | | | | | | | | |
| FW LENGTHS | | | | | | | | |

LONGITUDINAL SECTION
1:100

**YORKSHIRE WATER NOTES**

1- ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'CODE FOR ADOPTION'. THE RELEVANT BRITISH / EUROPEAN AND YORKSHIRE WATER'S STANDARDS / REQUIREMENTS / ADENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.

2- MANHOLE COVERS SHALL / MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.

3- FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.

4- YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN / LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR IN DIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION REGARDING THE DISPOSAL OF THE FILTER DRAIN / LAND DRAINAGE RUN-OFF.

5- THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES & SERVICE MARGINS.

6- SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HEDGES OR THE WIDTH OF THE CANOPY AT MATURE HEIGHT.

7- SEWERS TO BE LAID IN CLASS 'S' BEDDING (150mm GRANULAR BED AND SURROUND). WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 900mm IN NON-VEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.

8- BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2)

9- YORKSHIRE WATER POLICY IS THAT TYPE 'C' BRICK MANHOLES AND 1050mm DIA MANHOLE RINGS ARE NOT PREFERRED. INSTEAD , IT IS PREFERRED THAT YOU USE A TYPE 'B' MANHOLE WITH 1200mm DIA OR 1500mm DIA RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1-1.5m.

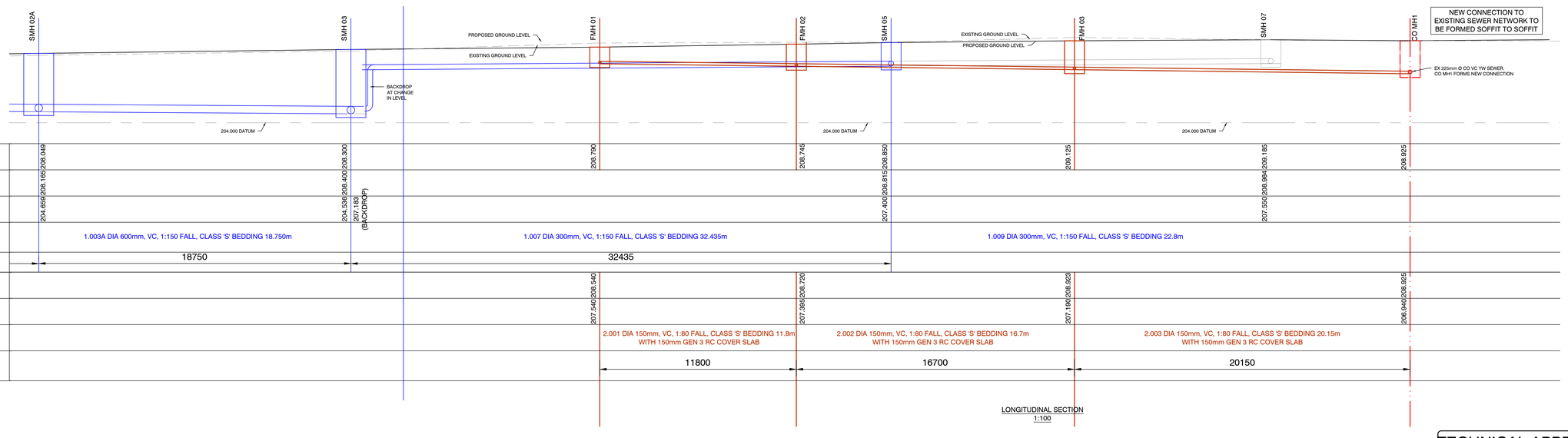
10- ADOPTABLE PLASTIC SEWER PIPES TO BE BSI KITEMARKED (CERTIFIED TO WIS-4-35-01 & BS/EN13476). ADOPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3m LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD REQUIRE CLAY WARE CHANNELS IN MANHOLES.

11- THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS; 100mm DIA 40KN/m, 150mm DIA 40KN/m, 225mm DIA 49KN/m AND 300mm DIA 72KN/m. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE - CLASS 120 TO EN 1916 / BS9911-1 2002). PLASTIC PIPES SHOULD CONFORM TO WIS 4-35-01 & BS EN13476.

12- WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.

13- THERE MUST BE ENOUGH CLEARANCE AT CROSSOVERS TO ACCOMMODATE BEDDING TO BOTH PIPES. APPROX 300mm. IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY NEED TO EB INCREASED.

**FOR ALL CLAUSE AND TABLE REFERENCES, PLEASE REFER TO DESIGN & CONSTRUCTION GUIDANCE CONTAINED WITHIN THE CODE FOR ADOPTION.**




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| EX GROUND LEVEL | 208.049 | 208.300 | 208.790 | 208.745 | 208.850 | 209.125 | 209.185 | 208.925 | |
| SW COVER LEVEL | 205.165 | 208.400 | | | | | 208.984 | | |
| SW INVERT LEVEL | 204.659 | 204.536 | | | 207.400 | | 207.550 | | |
| | | 207.183 (BACKDROP) | | | 208.815 | | | | |
| SW PIPE DETAILS | 1.003A DIA 600mm, VC, 1:150 FALL, CLASS 'S' BEDDING 18.750m | | 1.007 DIA 300mm, VC, 1:150 FALL, CLASS 'S' BEDDING 32.435m | | | 1.009 DIA 300mm, VC, 1:150 FALL, CLASS 'S' BEDDING 22.8m | | | |
| SW LENGTHS | 18750 | | 32435 | | | | | | |
| FW COVER LEVEL | | | 207.540 | 208.726 | | 208.923 | | 206.940 | 208.925 |
| FW INVERT LEVEL | | | | 207.395 | | 207.190 | | 206.940 | |
| FW PIPE DETAILS | | | 2.001 DIA 150mm, VC, 1:80 FALL, CLASS 'S' BEDDING 11.8m WITH 150mm GEN 3 RC COVER SLAB | | 2.002 DIA 150mm, VC, 1:80 FALL, CLASS 'S' BEDDING 16.7m WITH 150mm GEN 3 RC COVER SLAB | | 2.003 DIA 150mm, VC, 1:80 FALL, CLASS 'S' BEDDING 20.15m WITH 150mm GEN 3 RC COVER SLAB | | |
| FW LENGTHS | | | 11800 | | 16700 | | 20150 | | |

LONGITUDINAL SECTION
1:100

TECHNICAL APPROVAL

| Rev | Date | | Drawn | Apprd |
|---|---|---|---|---|
| A2 | 29.01.26 | AMENDS TO SUIT YW COMMENTS | JDH | SG |
| A1 | 18.09.25 | AMENDS TO SUIT YW COMMENTS | JDH | SG |
| A0 | 18.03.25 | FIRST ISSUE, FOR APPROVAL | JDH | JDH |

BDi Structural & Civil Engineering
8Di, Suite 8, Stafford Court, Walthway Road, Sale, M33 7PE
www.bdistructuralsolutions.co.uk
T: 0161 969 3886
E: bdi@bdistructuralsolutions.co.uk

Client: Sourced Co
Company Name

Project: Roughbirchworth Lane
Oxspring

Drawing Title: S104 Longitudinal Section (Sheet 1)

| Scale | Drg No. |
|---|---|
| As shown at A0 | 20218532 C1 11 |

| Drawn | Chk'd by | Rev |
|---|---|---|
| JDH | JDH | A2 |

| Date | Date Chk'd |
|---|---|
| 18.03.2025 | 18.03.2025 |