

RD3

CHAINAGE	-0.538 0.000 2.000	10.000	15.464 17.299	20.000 20.027
EXISTING GROUND LEVEL	126.755	126.851	126.924	126.925
ALIGNMENT LEVEL	126.773	126.888	126.993	126.993
VERTICAL ALIGNMENT	G= 1.250% 1: 60.0			
HORIZONTAL ALIGNMENT				
STORMWATER COVER LEVEL	126.758		126.973	
STORMWATER INVERT	125.381 Pipe 2.000 Dia 225 ESVC 1 in 150 17.840 S BED & SURR	125.900		
FOULWATER COVER LEVEL	126.622		126.912	
FOULWATER INVERT	124.858 Pipe 2.000 Dia 150 ESVC 1 in 135 14.470 S BED & SURR	124.965		

GROUND LEVEL	124.957	124.384	123.766	122.877	122.866
STORMWATER COVER LEVEL	125.098		124.200		122.661
STORMWATER INVERT	121.682 Pipe 1.003 Dia 1200 CONC 1 in 400 23.678 S BED & SURR	121.623 Pipe 1.004 Dia 300 ESVC 1 in 240 16.115 S BED & SURR	121.623	121.556	121.556
FOULWATER COVER LEVEL	125.041	124.200		122.567	
FOULWATER INVERT	121.082 Pipe 1.003 Dia 150 ESVC 1 in 135 27.444 S BED & SURR	120.879 Pipe 1.004 Dia 150 ESVC 1 in 135 35.860 S BED & SURR	120.879	120.762	120.762

GROUND LEVEL	125.065	
STORMWATER COVER LEVEL	125.150	125.098
STORMWATER INVERT	122.711 Pipe 3.000 Dia 225 ESVC 1 in 165 8.853 S BED & SURR	122.657

ALL COVER & INVERT LEVEL INFORMATION HAS BEEN TAKEN FROM AVAILABLE TOPOGRAPHICAL SURVEY DATA OR UNITED UTILITY RECORDS AND CCTV REPORT. EXISTING PUBLIC FOUL AND SURFACE WATER SEWERS ARE TO BE ABOVE GROUND. PROBED, ROUTED AND INTERNALLY SURVEYED WITH ALL INFORMATION PASSED TO SITE INFRASTRUCTURE SERVICES LTD FOR REVIEW PRIOR TO COMMENCEMENT ON SITE.

UNDER NO CIRCUMSTANCES SHALL ANY PROPOSED LEVELS BE AMENDED WITHOUT THE PRIOR CONSULTATION WITH SITE INFRASTRUCTURE SERVICES LTD.

**DESIGN NOTE**  
APPROVAL TO BE IN PLACE WITH UNITED UTILITIES BEFORE CONNECTION IS MADE TO THE PUBLIC SEWER SYSTEM

**DESIGN NOTE**  
REFER TO UTILITY SURVEY FOR EXACT POSITION OF THE EXISTING ELECTRICITY MAIN IN THIS VICINITY

**DESIGN NOTE**  
COVER LEVEL, INVERT LEVEL, CONDITION AND POSITION OF ALL EXISTING MANHOLES TO BE DETERMINED BEFORE COMMENCEMENT ONSITE.

- NOTE:**
- No dimensions are to be measured from this drawing.
  - All levels shown are in metres unless otherwise shown.
  - This drawing is to be read in conjunction with all relevant Architects, Planning and Infrastructure Design drawings.
  - The position and levels of all existing drains are to be confirmed on site prior to the commencement of the works and any discrepancies reported immediately to the engineer.
  - All private drainage is to be constructed in accordance with the latest edition of the Building Regulations Part H (Drainage & Waste Disposal) and to BS EN 752 (Building Drainage).
  - All adoptable drainage is to be in accordance with the requirements of Sewers for Adoption 6th Edition and the Sewerage Undertaker/Council.
  - All connections to existing public sewers are to be made to the satisfaction of the Sewerage Undertaker and the Local Authority.
  - Existing drains being abandoned are to be dealt with in the following manner:
    - Within 1.0m of proposed ground levels, drains are to be grubbed out.
    - Deeper than 1.0m of proposed ground levels drains are to be grouted with a 1:10 cement sand mix.
  - Any existing gully connections being abandoned are to be sealed with a concrete plug not less than 300mm thick at a level of 1.0m below ground.
  - Concrete protection of pipework is to be provided as follows:
    - All pipework within pedestrian / soft areas with a cover less than 600mm.
    - All pipework beneath areas subject to vehicular overrun with a cover less than 1.2m.
  - All pipework within manholes are to be laid soffit to soffit.
  - Any gradients of drains are indicative only and The Contractor shall install drains to the invert levels shown for each manhole.
  - Any co-ordinate information regarding manholes is to the centre of the manhole.
  - Cover levels of the manholes are provisional and subject to adjustment to suit the finished ground levels.
  - The use of short radius bends for changes in direction is not permitted, only long radius bends or 2 No. are to be used.
  - Connections to carrier drains are to be "Y" junctions.
  - Manhole covers and frames are to be in accordance with BS EN 124 and the following criteria:-

Vehicular areas : Class D400 double triangular 150mm (min) deep ductile iron cover & frame with three-point cover seating.  
Pedestrian areas only : Class B125 double triangular 100mm (min) deep ductile iron cover & frame with three-point cover seating.
  - Heavy duty cover slabs are to be used with Class D400 frames.
  - Gully gratings and channel covers are to be in accordance with BS EN 124 as follows:
    - Areas subject to vehicular overrun: Class D400 minimum. Class F900 within service yard.
    - Areas not subject to vehicular overrun: Class C250
  - Gully gratings are to be double triangular ductile iron with a non-rock design and a 100mm deep frame.
  - Outside of sewers to be 1.0m (min) from kerb line.
  - Outside of manholes to be 0.5m (min) from kerb line.
  - All non-adoptable foul and surface water pipes to be 100 diameter unless noted otherwise.
  - Proposed 225mm diameter inspection chambers to be laid at a maximum depth of 600mm below GL.
  - Proposed 450mm diameter inspection chambers to be laid at a maximum depth of 3000mm below GL.
  - Installation of all pipework, manholes, gullies & channels etc are to be laid to manufacturers specification.

Rev	Amendments	Date	Drawn
-	INITIAL ISSUE	13.05.2022	CML

PROVISIONAL Subject to UU Approval

Client

**gleeson**  
Building Homes. Changing Lives.

Project Title  
Ivy Mills  
CUMBRIA

Drawing Title	Scale
PHASE 2 LONGITUDINAL SECTIONS 2 OF 2	H=1:100 V=1:500 @ A1
Drawn	Date
CML	13.05.22
Ref	Rev
GHC-IM-C-P2-13-02	-

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