



Drainage key
Proposed Surface Water Manhole
Proposed Surface Water Drainage pipe
Proposed Filter Drain with perforated pipe
Proposed Foul Water Manhole
Proposed Foul Water Drainage
Proposed Cellular Storage
Linear Drainage / threshold drain
Rodding Eye
Road Gully

- GENERAL NOTES**
- Do not scale this drawing. If in any doubt ask.
 - This drawing is to be read in conjunction with all relevant engineers and specialists drawings and specifications.
 - All setting out is to be checked on site prior to any works commencing.
 - Any discrepancies are to be reported to CDS immediately.
 - All dimensions are shown in millimetres unless otherwise noted.
 - All levels are shown in metres unless otherwise noted.
- CDS Standard Drainage Notes**
- The exact position, level, size and use of existing sewers to be confirmed on site. Any discrepancies to be reported to the Engineer **PRIOR TO COMMENCEMENT OF WORKS**.
 - All uncovered and shallow pipework to be protected against construction traffic as part of the Contractors temporary works requirements.
 - Pop-up positions for foul water appliances are shown approximate only for the purposes of underslab drainage. Exact locations to Archt's setting out to suit interior layouts etc.
 - All above ground and internal Surface and Foul Water pipework to specialist's design / detail. Not shown here.
 - See Architect's details for all setting out dimensions to buildings and boundaries etc.
 - All SVP's to be fitted with roddable access plates. All foul drains to have roddable access.
 - Connections to foul terminal fittings to be 100mm nominal bore pipework subject to confirmation of above ground pipe diameters and/or design flow. No pipe work to be downsized in the direction of flow.
 - All foul connections to be vented to atmosphere. All pop-up's located at the head of drains to be vented above ground. Above ground drainage details to be confirmed by the M+E contractor.
 - All un-noted buried foul pipework to be 100mm dia. unless subject to the notes above. All un-noted Storm buried pipework to be 100mm dia.
 - All buried pipework to be U-PVC type in accordance with WIs 4-35-01 unless otherwise noted.
 - All pipework entering and exiting manholes to be connected with pipe soffits level.
 - Pre-formed channels to be used at all manholes.
 - High strength concrete benching to be steel trowelled to a dense smooth face neatly shaped and finished to all branch connections and laid in accordance with the Specification.
 - Pipe bends to be provided to suit direction of flow.
 - All manhole covers and frames to be Ductile Iron Heavy Duty Grade D400 double triangular to BS EN 124 unless otherwise noted.
 - Gully tops and manhole covers to be provided in accordance with BS EN 124 unless otherwise noted.
- Group 2** (min. class B125).
Footways, pedestrian areas, car parks. NO HGV's.
Group 3 (min. class C250).
Lightly trafficked roads and small private car parks.- All soft spots encountered in the trench formation to be removed and replaced with graded granular material unless instructed otherwise.
- All pipework below road and car parking with less than 700mm cover (private) shall be protected with a 150mm min FND2 concrete surround with flexcell isolation joints @ 2.0m max. centres to coincide with pipe joints.
- All Specialist attenuation tanks, soakaways and water treatment units to be installed as per manufacturers installation details and specifications. Contractor to liaise with specialist suppliers for confirmation of bedding and surround requirements.
- The design of any temporary works required shall be the responsibility of the Contractor.

- Project Specified Notes:**
- Further survey of the existing drainage to be undertaken to investigate the wider existing drainage network at the school private road.
 - Foul Water of the new school to be connected to the existing foul network at the school private road.
 - For surface water, full assessment of drainage hierarchy to be undertaken to confirm the method of surface water disposal.
 - Soakaway assessment to be undertaken to confirm the viability of infiltration drainage.
 - This design only validates if infiltration drainage is not viable or no watercourse nearby available for connection.
 - Surface Water connection point to be confirmed.
 - Finish Floor Level of the building (104.000m) to be confirmed.
 - All levels shown in this drawing are subject to Finish Floor Level.

Manhole Reference	Manhole Type / diameter (mm) *	Cover Type	Cover Level	Invert Level
SW MH1	450Ø	B125	103.800	103.300 (100Ø)
SW MH2	450Ø	B125	103.850	103.230 (100Ø) / 103.180 (150Ø)
SW MH3	450Ø	B125	103.850	103.090 (150Ø)
SW MH4	450Ø	B125	103.850	102.980 (150Ø)
SW MH5	450Ø	B125	103.850	103.30 (100Ø) / 103.250 (150Ø)
SW MH6	450Ø	B125	103.800	103.120 (150Ø)
SW MH7	450Ø	B125	103.830	103.040 (150Ø)
SW MH8	450Ø	B125	103.730	103.030 (100Ø)
SW MH9	1200Ø Flow Control Chamber	C250	103.580	102.250 (150Ø)

Manhole Reference	Manhole Type / diameter (mm) *	Cover Type	Cover Level	Invert Level / (pipe diameter)
FW MH1	450Ø	B125	103.850	102.830 (100Ø)
FW MH2	450Ø	B125	103.850	102.770 (100Ø)
FW MH3	450Ø	B125	103.750	102.700 (100Ø)
FW MH4	450Ø	B125	103.850	102.530 (100Ø)
FW MH5	450Ø	B125	103.850	102.470 (100Ø)
FW MH6	450Ø	C250	103.675	102.380 (100Ø)

P02 WC: 04.04.25 Drainage updated
P01 WC: 03.04.25 First Issue - Preliminary work-in-progress for information

Rev	By	Date	Details	Chkd
Drawing Status For Tender				

Construction Design Solutions
Consulting Civil, Structural, Highway & Drainage Engineers
78 Willaton Road, Birston, Nottingham, NG9 2NZ.
Tel: 0115 922 9491
Fax: 0115 922 7451
General E-mail: design@cdsconsulting.co.uk
Web Site: www.cdsconsulting.co.uk

Client
**INCO construction & Development Consultants
Team Education Trust**

Project
SEN Nursery Building, Shirebrook

Title
Proposed Drainage Layout

Scale (A1) 1:125	Drawn by: WC	Drq. No.
Date: April 2025	Checked by: CC	2025-10734-5001-P02