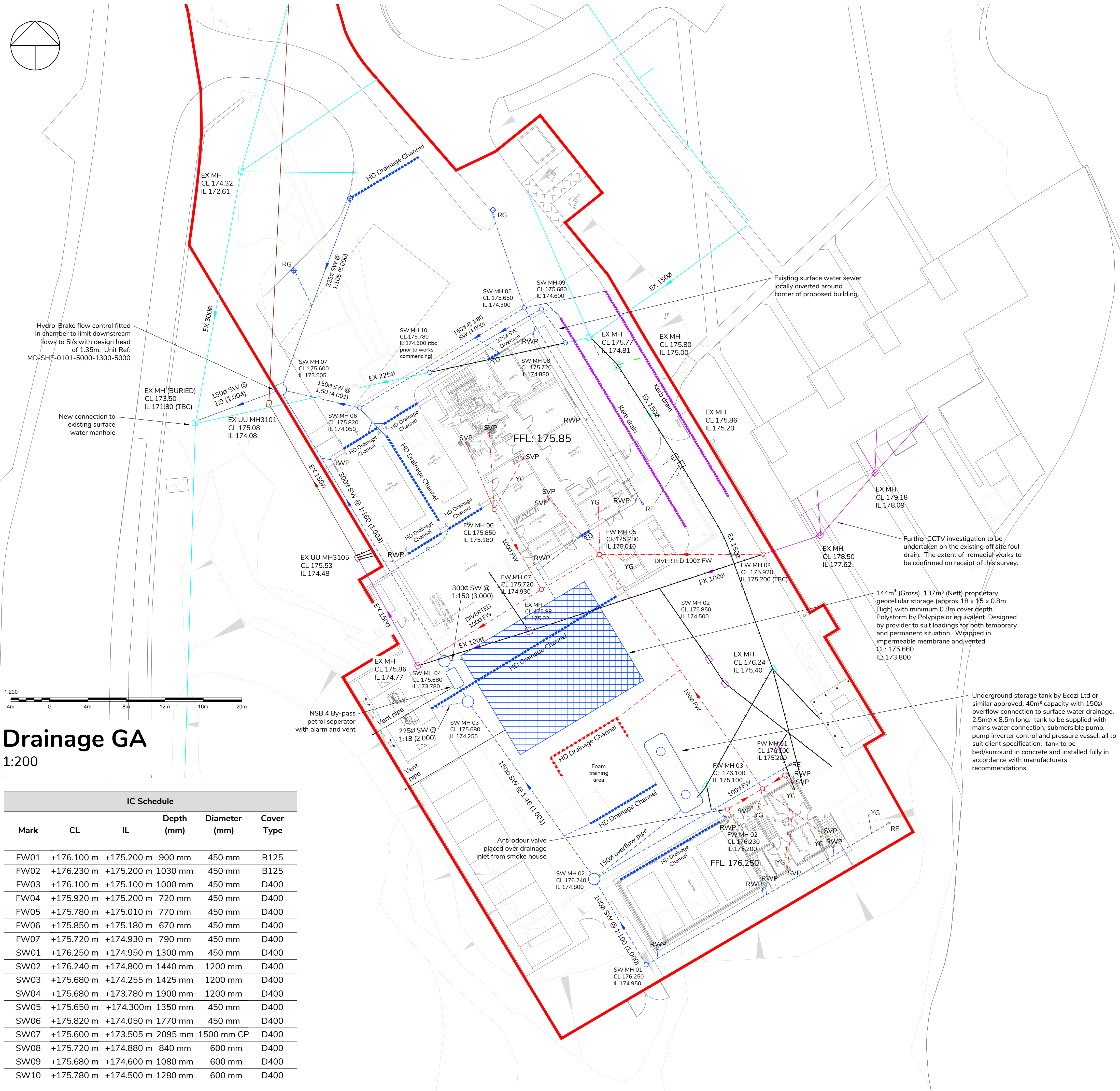
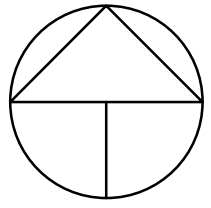




Drainage GA

1:200

IC Schedule					
Mark	CL	IL	Depth (mm)	Diameter (mm)	Cover Type
FW01	+176.100 m	+175.200 m	900 mm	450 mm	B125
FW02	+176.230 m	+175.200 m	1030 mm	450 mm	B125
FW03	+176.100 m	+175.100 m	1000 mm	450 mm	D400
FW04	+175.920 m	+175.200 m	720 mm	450 mm	D400
FW05	+175.780 m	+175.010 m	770 mm	450 mm	D400
FW06	+175.850 m	+175.180 m	670 mm	450 mm	D400
FW07	+175.720 m	+174.930 m	790 mm	450 mm	D400
SW01	+176.250 m	+174.950 m	1300 mm	450 mm	D400
SW02	+176.240 m	+174.800 m	1440 mm	1200 mm	D400
SW03	+175.680 m	+174.255 m	1425 mm	1200 mm	D400
SW04	+175.680 m	+173.780 m	1900 mm	1200 mm	D400
SW05	+175.650 m	+174.300m	1350 mm	450 mm	D400
SW06	+175.820 m	+174.050 m	1770 mm	450 mm	D400
SW07	+175.600 m	+173.505 m	2095 mm	1500 mm CP	D400
SW08	+175.720 m	+174.880 m	840 mm	600 mm	D400
SW09	+175.680 m	+174.600 m	1080 mm	600 mm	D400
SW10	+175.780 m	+174.500 m	1280 mm	600 mm	D400

Above ground storage

- Southern main yard area to retain 8m³ on the surface adjacent the drainage channel for the extreme 100yr + 40% CC peak storm event.
- ## Attenuation
- The proposed attenuation tank has been designed to accommodate a 1in100 year + 40% storm event.
 - Chamber to be owned and maintained by Derbyshire Fire & Rescue Service

SuDS Maintenance Requirements

- ### Monthly
- Litter management: pick up all litter in landscaped areas.
 - Grass maintenance: mow all grass verges and paths.
 - Inlets and outlets: Inspect and remove silt and leaves from gullies and channels.
 - Hard surfaces: sweep regularly.
- ### Yearly
- Gutters: clear out gutters of leaves and debris.

Occasional

- Inspection chambers: Annual inspection remove silt and check free flow.
- Carrier drain runs: Annual inspection to check free flowing. Rod as required and remove silt.
- Attenuation: Annual inspection to check silt. Clean and remove silt as required in accordance with manufacturers recommendations.

Drainage notes

- This drawing is subject to change depending on further development of the site layout, detailed design development and coordination with the Architect. It is the contractor's responsibility to confirm presence and location of services prior to commencing works.
- The proposed building outlines shown on this drawing are for information only. Refer to Architects drawings for precise setting out information and details including locations of all popups and gullies.
- Cover levels shown on this drawing are approximate and shall be adjusted to suit finished pavement levels on site by Contractor. Covers shall be orientated to suit pavement finishes where appropriate. All existing drainage shall be assumed to be 'live' and shall be maintained at all times during the works. Existing drainage shall be reconnected to the new drainage system unless proven to be redundant for abandonment. All existing drainage to be fully removed.
- Upon completion all new drainage installation together with any existing drainage retained shall be jetted and CCTV surveyed upon completion. Contractor to ensure that the drainage system is fully operational, free of excess debris/silt and all identified faults rectified.

Outline specification

- All drainage to comply with BS EN 16933-2:2017 Drain and sewer systems outside buildings together with parts H1, 2 and 3 of the current Building Regulations.
- All rain water gullies to be access gullies with integral back inlets for rodding installed to manufacturer's recommendations.
- All underslab drainage shall be clear of foundations unless shown otherwise with long radius bends kept to a minimum and used where shown when unavoidable.
- At least one soil pipe at the head of each foul run shall be vented to the atmosphere.
- Proposed pipework with <1.2m depth to soffit in roads to <0.9m in pedestrian/landscaped areas require a concrete surround.
- Where new drainage is situated within 5 metres of new or existing trees the pipework shall be encased in Z Class concrete surround to reduce the risk of root ingress.
- Concrete encasement of the pipework shall be required where the vertical clearance between two pipes crossing is less than 300mm. All external carrier drains to be vitreous clay pipework. Jointing shall be either UPVC pushfit couplings or by sealing rubber 'O' rings in polyester moldings.
- All carrier drains which are located within 2000mm of external walls or pass under buildings are to be encased in min. 150mm concrete of full width of trench.
- Manhole covers to be seated in rebated steel frames and sealed with grease on 100mm thick concrete frame base with 600mm minimum openings.

Residual Risks

These drawings should be read in conjunction with the designer's risk assessment (DRA) which communicates significant residual design risks that have been identified and suggests mitigating actions.

General Notes

- All dimensions are in millimetres unless noted otherwise.
- These drawings should be read in conjunction with all other relevant drawings, specifications, schedules and other information including all other consultants drawings.
- The contractor is responsible for the temporary stability of all structure including ground during the works and is to undertake the necessary temporary. All works are subject to all necessary approvals.
- Setting out information to be co-ordinated by lead designer.

Drainage Legend

- Existing combined water sewer
- Existing foul water sewer
- Existing foul water drainage
- Existing surface water drainage
- Proposed foul water (private)
- Existing drainage to be abandoned
- Proposed surface water (private)
- Proposed drainage channel
- Proposed kerb drain
- Proposed mini PPIC (Depth 600mm)
- Proposed 450ø PPIC
- Proposed PCC Manhole
- RWP Roddable rain water gully
- SVP Soil and vent pipe
- SS Substack
- RE Rodding eye
- RG Road gully
- YG Yard gully
- TD Threshold drain at doorways
- Geocellular attenuation
- site boundary

P08	03/08/23	Issued for Planning	PG	MS	JOY	JOY
P07	19/06/23	Issued for Planning	PG	MS	JOY	JOY
P06	03/05/23	Site plan updated	PG	MS	JOY	JOY
P05	22/03/23	Tank position revised	PG	MS	JOY	JOY
P04	27/02/23	Site plan updated	PG	MS	JOY	JOY
P03	12/12/22	Minor updates	PG	MS	JOY	JOY
P02	15/06/22	Issued for Tender	PG	MS	JOY	JOY
P01	10/06/22	First Issue	PG	MS	JOY	JOY
Rev	Date	Description	Drw	Chk	Rev'd	App

Status:

PLANNING

Client:

Derbyshire Fire & Rescue Service

Project:

Glossop Fire Station

Drawing:

Drainage GA

Drawing Number:	Revision:
LM21003-DYSE-XX-ZZ-DR-C-1002	P08

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STRUCTURAL ENGINEERS