

DRAINAGE STATEMENT TO SUPPORT PLANNING APPLICATION

For

**Proposed Extension to Provide Integrated Specialist SEND Provision & Associated
Facilities**

At

**Edgar Wood Academy,
Heywood Old Road,
Heywood,
OL10 2QN.**



On behalf of

**Altus Education Partnership
Suite F4, No. 2 The Esplanade
Rochdale
OL16 1AE**

1.0 Introduction

This Drainage Statement has been prepared to accompany a planning application for a proposed extension to provide an integrated specialised SEND provision (operated by Redwood School) along with associated facilities to provide dedicated inclusion provision and new student entrance for the wider Edgar Wood Academy school.

Reference should be made to drawings/supporting documents that accompany the Planning Application.

2.0 The Site & Existing Drainage System

Edgar Wood Academy is a recently constructed 11–16 secondary school, located to the Southeast side of Heywood Old Road (A6045), just south of the junction with Whittle Lane, bounded by Bowlee Park to the South and playing fields to the West.

Surface Water Drainage: –

The existing surface water drainage for the site discharges the surface water flows into the local water course, Whittle Brook to the north of the site, via previous agreement of the Lead Local Flood Authority's approval (Rochdale Borough Council) under an 'Application for Discharge to an Ordinary Watercourse'.

The discharge rates, drainage design and strategy have previously been agreed with the LLFA at part of the original construction of the school site. In line with planning policy and best practice, that the surface water drainage strategy incorporates Sustainable Urban Drainage Systems (SuDS) to manage surface water runoff to agreed rates and incorporates attenuation using below ground geo-cellular tanks; permeable surfacing used to enhance quality of runoff water and sub-base can provide 'source' storage and reduces the volume of storage downstream; swales; rain gardens etc.

Foul Drainage: –

The existing foul drainage for the site falls to a foul water pumping station to pump the foul water flows via a new manhole/drainage connection which will then connects via gravity into the nearest foul sewer which is located in Tudor Grove via previous approvals with United Utilities etc. In line with Building Control requirements, storage capacity has been provided for the expected flows over a 24hrs period in case of the pumps failing.

Details on the existing onsite drainage designs are included with Appendix A of this supporting document.

3.0 Proposal

Surface Water Drainage:–

The location of the new extension is constructed on the existing hardstanding forecourt/plaza areas alongside the sport hall, which is current drained via the exiting surface water drainage system, incorporating SUD, attenuation as per the original design outlined above.

The new proposed extension building/roof areas will be drained via localised rainwater pipes/outlets and discharge to existing connection locally providing no impact/increased loading to the existing SUDs drainage system.

As part of the proposals remodelling of the external site areas, utilising a small section of the school field will provide a modest increase in car parking area to provide an additional 12 parking spaces to accommodate the extended provision. The proposed new car parking area/surfaces are to comprise permeable surfacing (permeable asphalt / block paving), and sub-base to provide 'source' storage and reduces the volume of storage required downstream. These proposals will again have no impact/increased loading to the existing SUDs drainage system.

Foul Drainage: –

The proposed extension introduces a very small/modest increase comprising five w.c.'s and associated wash hand basins. These will be directed to existing foul drainage connections locally to connect into the existing wider site foul drainage systems. The very limited increase capacity can be accommodated via the existing foul water pumping station, and onsite storage capacity and therefore have limited or no impact on the overall site foul drainage system.

4.0 Conclusion

The proposed new drainage schemes both foul and surface water serving the new building extension and wide site remodelling has been designed and will be constructed to connect to existing site drainage connections locally and have minimal or no impact on the existing site drainage strategy.

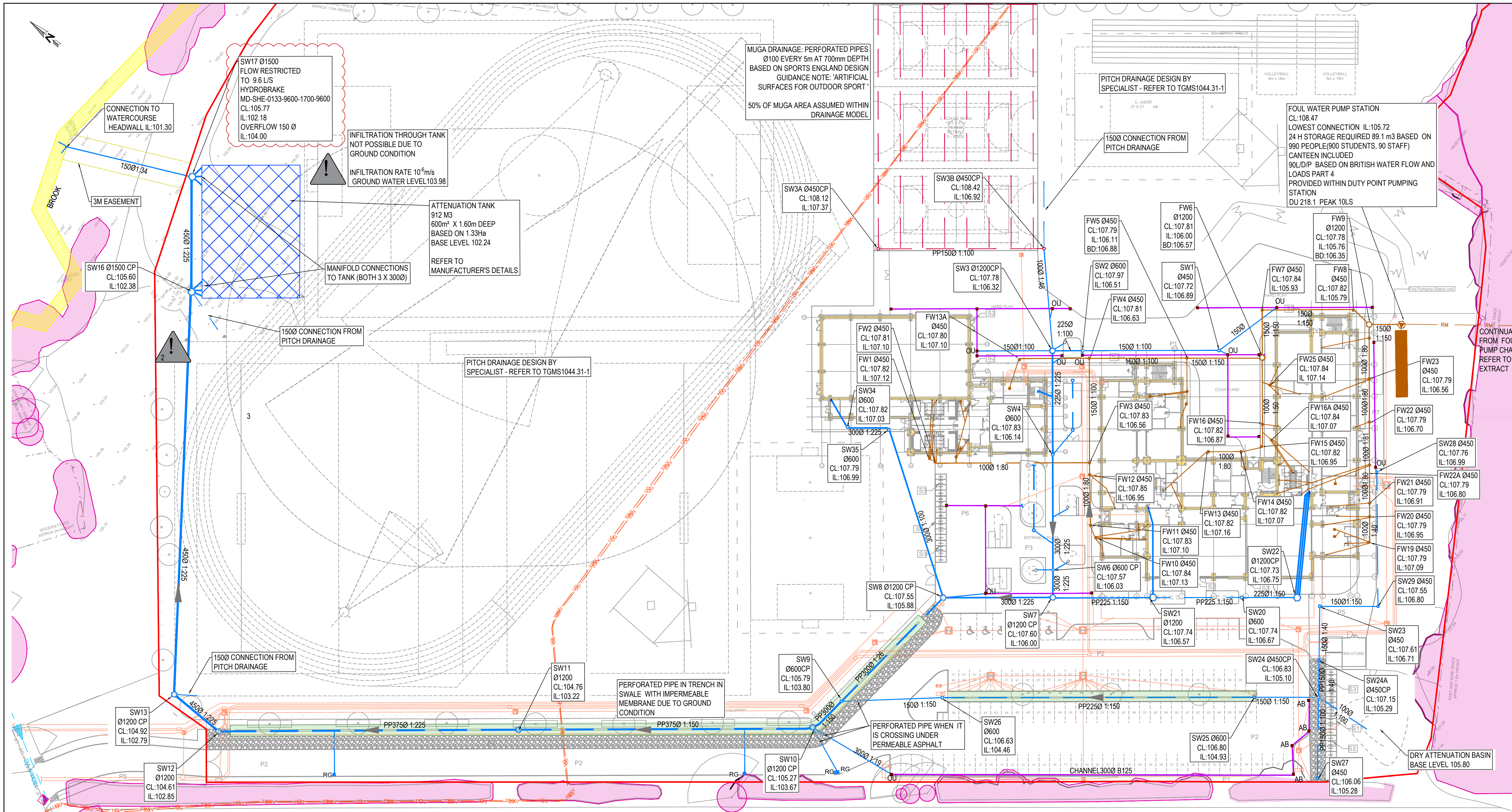
Surface water from the new building will connect to the existing drainage system having previous comprising hard surfaces forecourt areas and new car parking surface comprising permeable surfacing with no change to the overall loading/impact of the existing SUD's system.

The very small/limited increase of the existing foul drainage connections can be accommodated within the existing foul drainage pumping station, and onsite storage capacity.

Although every effort has been made to provide a full account of the proposed development within this statement, the applicant would be happy to discuss the proposal with the planning authority and provide any additional information as required to assist with the consideration of the application.

Appendix A –

Existing Site Drainage System –
Drawing Ref: – EWA-CUR-00-XX-DR-C-92500_C02 – Drainage Layout (Issued for Construction)



GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING EWA-CUR-XX-00-DR-C-92502.
- FINAL DESIGN IS SUBJECT TO CONTRACTOR'S DESIGN PORTION.
- FURTHER CO-ORDINATION REQUIRED BETWEEN EXTERNAL SERVICES AND THE PROPOSED DRAINAGE.

LEGEND:

- CP BOUNDARY
- ROOT PROTECTION
- RM FOUL WATER RISING MAIN
- PP SURFACE WATER PIPE
- PP SURFACE WATER PERFORATED PIPE
- PP SURFACE WATER PERFORATED PIPE WITHIN SPORT FIELDS
- PP PROPOSED FOUL WATER PIPE
- PP EXTERNAL SERVICES
- PP EXISTING ELECTRIC CABLES
- 3M EASEMENT
- PROPOSED PUMP STATION
- NEW MANHOLE
- CP CATCHPIT
- RG ROAD GULLY
- ROU OUTLET FROM RAINGARDEN
- OSC OUTLET FROM SHOWER CHANNELS
- AB CHANNEL-GATIC WITH ACCESS/OUTLET BOX
- SWALE
- PERMEABLE ASPHALT

DRAWING BASED ON:

- TOPOGRAPHICAL SURVEY GM11081-002 Rev A
- ADDITIONAL TOPOGRAPHICAL SURVEY RECEIVED MAY 2021
- UNITED UTILITIES RECORDS
- ROOT PROTECTION AREA GM11081-008-B
- GRP SURVEY GM11081-004-C
- EWA-ALA-00-XX-DR-0003 C01 LANDSCAPE GA
- FOUNDATIONS RECEIVED 14.05.21
- 1184-CSD-EX-XX-DR-ME-S0001 P01 EXTERNAL SERVICES
- MAINTENANCE ROUTE BASED ON EWA-SRA-XX-00-DR-A-79500, P02
- POP-UP LOCATIONS, 1184-CSD-SB-00-DR-SK-00001 CP1 AND 1184-CSD-TB-00-DR-SK-00001 CP1, RECEIVED 11.05.21
- EWA-SRA-XX-00-DR-A-20700, P01. GROUND FLOOR SETTING OUT
- EWA-SAP-XX-00-DR-0001 SYPHONIC DRAINAGE

RESIDUAL HAZARD REGISTER		
HAZARD REF No.	ITEM	RESIDUAL HAZARD
2	CONSTRUCTION	EXCAVATION DEEPER THAN 3M REQUIRED FOR THE SURFACE WATER NETWORK.
3	CONSTRUCTION	HIGH GROUND WATER LEVEL LOCATED IN PROXIMITY OF THE PROPOSED SURFACE WATER TANK LOCATION.

C02	HYDROBRAKE SPEC CHANGED	20/05/21	MW	MW
C01	ISSUED FOR CONSTRUCTION	18/05/21	ATL	MW
CP5	FOUL RISING MAIN ROUTE MODIFIED	29.04.21	MW	MW
CP4	ISSUED FOR CP- REMOVED DRAINAGE ON JUNCTION	23.02.21	MW	MW
CP3	ISSUED FOR CP- GULLY ADDED, RISING MAIN MOVED	15.02.21	MW	MW
CP2	ISSUED FOR CP- BOUNDARY UPDATED	13.02.21	MW	MW
CP1	ISSUED FOR CONTRACTORS PROPOSALS	12.02.21	MW	MW
Rev:	Description:	Date:	By:	Chkd:

curtins

Merchant Exchange, 17-19 Whitworth Street West, Manchester, M1 5WG
0161 235 2394
manchester@curtins.com
www.curtins.com

Civils & Structures • Transport Planning • Environmental • Infrastructure • Geotechnical • Conservation & Heritage • Principal Designer
Birmingham • Bristol • Cambridge • Cardiff • Douglas • Edinburgh • Glasgow • Kenton • Leeds • Liverpool • London • Manchester • Nottingham

Status: **CONSTRUCTION**

Project: **EDGAR WOOD SCHOOL**

Dig Title: **PROPOSED DRAINAGE LAYOUT**

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	09.11.20	MW	MW	MW

Scale: 1:500

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
EWA - CUR - 00 - XX - DR - C -						92500 - C02	

