

ESP WATER

DRAINAGE TECHNICAL APPROVAL (HIGH LEVEL)

The purpose of this document is to ensure consistent review of the drainage for each site and to highlight and recommendations, changes or actions that may be required. This is to include by the foul and surface water networks.

Review Information:	
Site Name:	Manchester College, Manchester, M23 0DD
ESP Reviewer:	Ryan O'Sullivan
External Reviewer:	TBC
Document Name & version:	131147_FO_2021-ADOPTABLE_DRAINAGE_LAYOUT-1808247_manchester_college.pdf
Date reviewed:	19/01/22

General Comments:

The sewer material on the plan states Clay, why is this being used? Are there soil / chemical degradation issues? Could Plastic pipe be used.

- There is a hydro brake located in the north central part of the development for surface water only along with a surface water pumping station
- The road gullies are going into the surface water network, there is not a separate highways drainage network – which has been confirmed.
- The notes on the left of the map state that numerous properties will soak away to private soakaways.
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1) **Do the plans provide all the detail you require** ☒

Comment – Yes

The as laid plans need to include the private laterals on as laid drawings

2) **Further input required from a SME (subject matter expert)** ☐

Comment – Yes full confirmation after external review TBC

3) **Are storage calculations available and reasonable** ☒

Comment – More information required on calculations for surface water pumping station and the hydrobrake which I circa 5m deep. Also review safety of maintenance of the hydrobrake.

4) **Is the site in a flood risk zone?** ☒

Comment

- Rivers and sea flooding = Very low Risk
- Surface water flooding = Very Low Risk, with two small areas of high risk

Recommendations:

The initial design / configuration would be acceptable to ESP water, This site to be reviewed by an external engineer to confirm calculations. Further details on the designed maintenance activities and alarms for the pumping station, this to be confirmed at a later stage.

Confirm if Highways agency are to maintain the highway gullies.