Northampton International Academy - Proposed Temporary Classrooms

Drainage Strategy

Project no: 2112  December 2015
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Revision  Date  Status
  -  18-12-2015  Final
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Introduction

This report describes a Drainage Strategy which has been prepared by Morph Structures. The report will support a planning application for temporary classrooms cabins at the former Royal Mail sorting office, Northampton. The benefit of this report is limited to our instructing client.

The former Royal Mail sorting office is located on Barrack Road, Northampton, as shown in Figure 1.1 below.

It is proposed that the former Royal Mail sorting office is redeveloped into Northampton International Academy. As part of this redevelopment, temporary classroom cabins are required to accommodate the first year intake. The temporary cabins are to be located across three sites as follows:

Northampton International Academy, 55 Barrack Road, Northampton, NN1 1AA
Castle Academy, St George’s Street, Northampton, NN1 2TR
NBA Gateway Centre, Mill Road, Northampton, NN2 6AX

The western block will comprise Year 7 cabins, a staff / admin cabin and a temporary hall. The southern block will accommodate the Reception class.
2.1 Introduction
A Flood Risk Assessment (FRA) has been prepared by SMP Consulting Engineers to support a planning application for the full permanent works of the proposed school, SMP report reference 6238-1-Rev B dated 12th June 2014, planning application number NCC app no: 14/00039/CCDFUL. The FRA also detailed the proposed drainage strategy for the full redevelopment.

2.2 Existing Drainage
There is a 900mm x 600mm combined sewer located to the west of the site and 225mm diameter foul and surface water sewers located to the north of the site, as shown on the plan enclosed in Appendix B obtained from the SMP FRA report.

All surface water from the existing site drains to a combined sewer located to the west of the site. Details of the existing on-site drainage are shown on the topographical and utility surveys enclosed in Appendix C and Appendix D.

2.3 Proposed Surface Water Drainage Strategy
It is proposed that surface water runoff from the full permanent works of the new school will discharge to the existing combined sewer located to the west of the site. Surface water runoff for the permanent works will be limited to a rate of 76 l/s as specified by Anglian Water.

To be consistent with the drainage proposals for the full permanent works, surface water runoff from the temporary classroom cabins will also discharge to the existing combined sewer located to the west of the site.
Drainage Strategy

3.1 Surface Water
The locations of the two blocks of temporary cabins are currently areas of hard-standing. Therefore, the impermeable area will not increase as a result of the temporary cabins. The topographical and utility survey showing the existing surface water on-site drainage is enclosed within Appendix D.

Surface water from both blocks of temporary cabins will drain to the nearest existing available drains located on the site. These existing surface water drains ultimately discharge to the combined sewer located to the west of the site. This drainage strategy is consistent with the strategy detailed within the FRA for the full permanent works.

Surface water drainage of the full redevelopment of the site will be carried out in line with the approved FRA.

3.2 Foul Water
The topographical and utility survey showing the existing foul water on-site drainage is enclosed within Appendix D.

Foul water from both blocks of temporary cabins will drain to the nearest existing available drains located on the site. These existing foul water drains ultimately discharge to the combined sewer located to the west of the site. This drainage strategy is consistent with the strategy detailed within the FRA for the full permanent works.

Foul water drainage of the full redevelopment of the site will be carried out in line with the approved FRA.
Appendix A

Temporary Accommodation Proposed Site Plan - Architecture Initiative drawing no. AI-2223/NIA-003
Appendix E

Topographical and Utility Survey - Mantra drawing no. 562_006_1 and 562_007_1
1. This drawing is to be read in connection with all relevant specifications, service providers' records, recent ground surveys and other existing plans and drawings if any.memo

2. All dimensions are to be checked on site prior to commencement of works.

3. Ensure location and setting-out is agreed on site.

4. Do not scale from this drawing.

5. A single line indicating a service location does not indicate the number of services in that location.

6. Electromagnetic and Ground Penetrating Radar methods are employed to confirm locations on service routes. All data can be referred to in conjunction with ground surface surveys. All depths should be checked on site and all proposed services checked at commencement of works.

7. Any revisions should be carried out in accordance with RSD20 by PFI UK.

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Nettledale Primary School

Topographical & Utility Survey Sheet 2

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