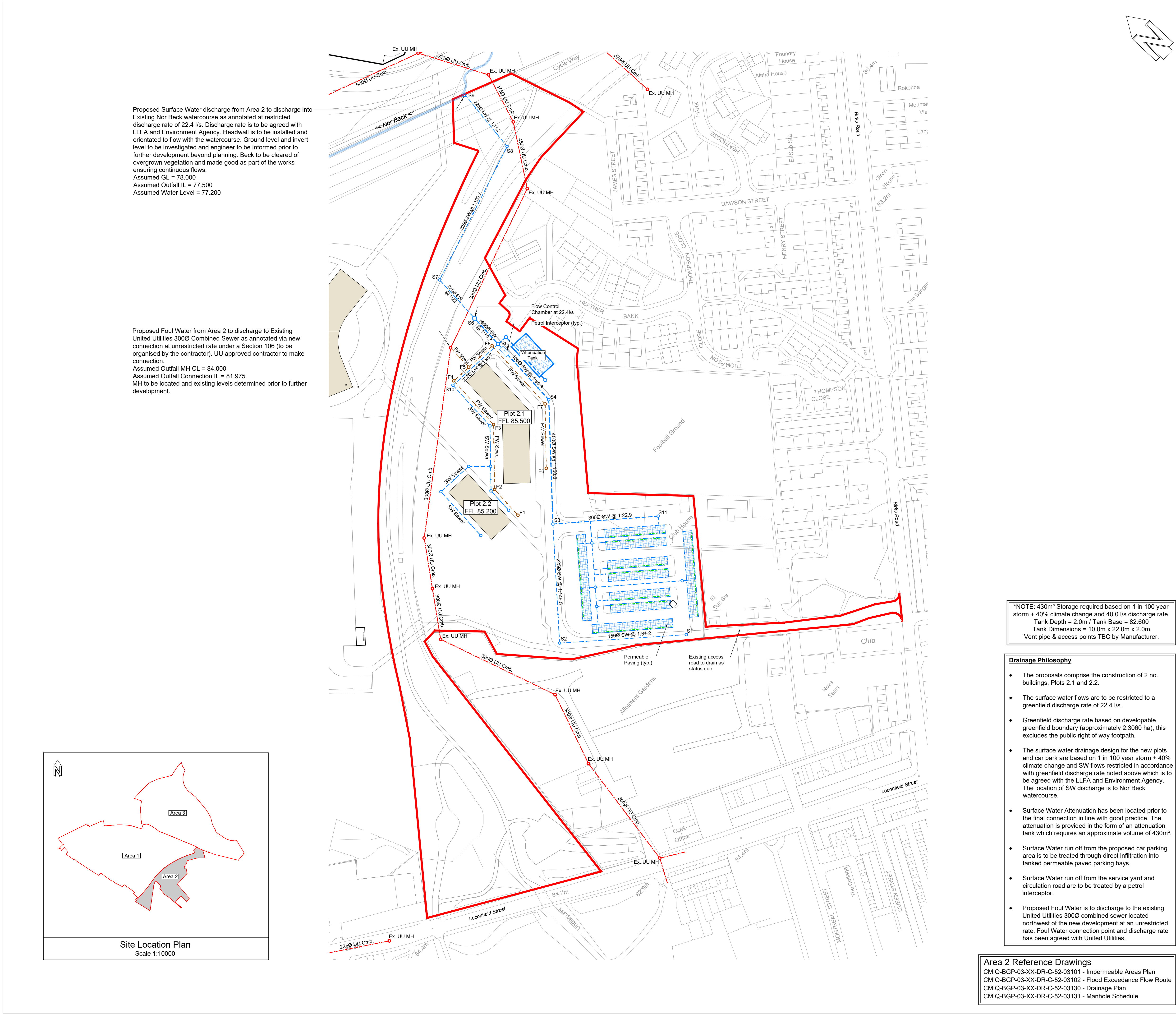




DO NOT SCALE

Notes

1.

All Information provided is for planning purposes only and should not be relied upon for either costing or construction.

2.

Proposed finished floor levels are indicative and are based on existing topographic data.

3.

All drainage outfall levels are to be investigated and confirmed prior to detailed design. Engineer to be informed of findings. Current design shown is indicative.

4.

All Surface water discharge rates and methods of discharge are to be agreed with the Lead Local Flood Authority and Environment Agency.

5.

All Foul water discharge rates are to be agreed with United Utilities through return of a predevelopment enquiry.

Legend

Proposed SW Sewer

Proposed FW Sewer

Nor Beck (Culverted)

Existing SW Sewer

Existing FW Sewer

Existing UU Combined Sewer

Area 2 Site Boundary

Proposed Attenuation Tank

Proposed Building

Tanked Permeable Paved Parking Bays with perf. pipe

Additional Notes

Proposed Impermeable Area

=

8870m² (0.8870Ha.)

Greenfield Discharge Rate

=

22.4 l/s

Storage Required

=

430m³

*NOTE: 430m³ Storage required based on 1 in 100 year storm + 40% climate change and 40.0 l/s discharge rate.
Tank Depth = 2.0m / Tank Base = 82.600
Tank Dimensions = 10.0m x 22.0m x 2.0m
Vent pipe & access points TBC by Manufacturer.

Drainage Philosophy

The proposals comprise the construction of 2 no. buildings, Plots 2.1 and 2.2.

The surface water flows are to be restricted to a greenfield discharge rate of 22.4 l/s.

Greenfield discharge rate based on developable greenfield boundary (approximately 2.3060 ha), this excludes the public right of way footpath.

The surface water drainage design for the new plots and car park are based on 1 in 100 year storm + 40% climate change and SW flows restricted in accordance with greenfield discharge rate noted above which is to be agreed with the LLFA and Environment Agency. The location of SW discharge is to Nor Beck watercourse.

Surface Water Attenuation has been located prior to the final connection in line with good practice. The attenuation is provided in the form of an attenuation tank which requires an approximate volume of 430m³.

Surface Water run off from the proposed car parking area is to be treated through direct infiltration into tanked permeable paved parking bays.

Surface Water run off from the service yard and circulation road are to be treated by a petrol interceptor.

Proposed Foul Water is to discharge to the existing United Utilities 3000 combined sewer located northwest of the new development at an unrestricted rate. Foul Water connection point and discharge rate has been agreed with United Utilities.

Area 2 Reference Drawings

CMIQ-BGP-03-XX-DR-C-52-03101 - Impermeable Areas Plan

CMIQ-BGP-03-XX-DR-C-52-03102 - Flood Exceedance Flow Route

CMIQ-BGP-03-XX-DR-C-52-03130 - Drainage Plan

CMIQ-BGP-03-XX-DR-C-52-03131 - Manhole Schedule

Client

Copeland Borough Council

Project

Cleator Moor Innovation Quarter

Project No.

21T2034

Drawing Title

Area 2 - Drainage Plan

Drawn

JJH

Date

Nov 2021

Checked

JC

Date

Nov 2021

Size

A1

Scale

1:1000

Class.

52

Rev.

P02

Location

CMIQ

Originator

BGP

Volume

03

Level

XX

Type

DR

Role

C

Unique No.

03130

File Reference

CMIQ-BGP-03-XX-DR-C-52-03130