SITE SUMMARY

THE EXISTING SITE IS A PART BROWNFIELD SITE WHICH COMPRISES A COMBINED (SURFACE AND FOUL WATER) THAMES WATER SEWER WHICH IS NEEDING TO BE DIVERTED. THE BELOW GROUND DRAINAGE SYSTEM HAS BEEN TRANSCRIBED OVER A TOPOGRAPHICAL SURVEY CARRIED OUT BY ENGINEERING LAND & BUILDING SURVEYS [DRAWING REFERENCE 7656].

SITE RUN-OFF

NO PART OF THE PROPOSED DEVELOPMENT SITE DRAINS INTO THE PUBLIC SEWER DUE TO THE PERMEABLE NATURE OF THE SITE COVERING. THE PROPOSED DRAINAGE DESIGN HAS BEEN DESIGNED USING LATEST FEH22 DATASET AND MODELED UP TO THE 1 IN 100 YEAR + 40% CLIMATE CHANGE EVENT.

THE PROPOSED SITE DISCHARGE HAS BEEN RESTRICTED TO 0.8 I/s

LONDON BOROUGH OF CAMDEN LOCAL POLICY GUIDANCE AND COMPLIANCE

IN LINE WITH POLICY CC3 - WATER AND FLOODING; SURFACE WATER HAS BEEN DESIGNED TO BE EFFECTIVELY STORED DURING HIGH INTENSITY OR PROLONGED STORM PERIODS; SUDS DEVICES ARE PROPOSED TO BE INTRODUCED TO MANAGE SURFACE WATER ON SITE AND TO ENSURE THEY DO NOT INCREASE THE RISK OF FLOODING WITHIN OR OUTSIDE OF THE SITE BOUNDARY. THE FOLLOWING COUNCIL'S PREFERRED DRAINAGE HIERARCHY HAS BEEN FOLLOWED IN THE ORDER SHOWN BELOW:

- 1) RAINWATER STORAGE FOR LATER USE WILL BE PROPOSED FOR THIS SITE. THIS IS IN THE FORM OF A RAINWATER BUTTS WITH OVERFLOW SYSTEMS WHERE IT IS FULL
- 2) INFILTRATION IS NOT FEASIBLE DUE TO THE POOR PERMEABILITY OF THE SOILS AND LIMITATIONS FOR MASS QUANTITIES OF SURFACE WATER TO RECHARGE AS PART OF THE GROUND WATER. THE DENSITY OF THE SITE ALSO PREVENTS THE USE OF A SOAKAWAY. 3) POND FEATURES OR OPEN WATER FEATURES HAVE NOT BEEN
- PROPOSED DUE TO THE LIMITED SPACE AVAILABLE ON THE DEVELOPMENT PLOT.
- 4) ATTENUATING RAINWATER BY STORING IN TANKS OR SEALED WATER FEATURES WILL BE PROPOSED AS THERE IS ADEQUATE SPACE BELOW GROUND TO STORE THE WATER IN A SUSTAINABLE WAY. SURFACE WATER BE CONTROLLED PRIOR TO RELEASE INTO THE PRIVATE SEWER SYSTEM.
- 5) THERE ARE NO WATERCOURSES WITHIN THE VICINITY OF THE SITE TO CONNECT INTO
- 6) THERE ARE NO SURFACE WATER SEWERS IN FRONT OF THE DEVELOPMENT SITE FOR CONNECTION INTO.
- 7) AN EXISTING COMBINED WATER SEWER WILL BE USED TO DISCHARGE BOTH FOUL AND SURFACE WATER.

SuDS STATEMENT

THIS DEVELOPMENT WILL BENEFIT FROM A FULL GREENROOF SYSTEM WHICH HAS A LOW SUBSTRATE DEPTH, SIMPLE PLANTING AND A GENERAL LOWER MAINTENANCE REGIME. THE GREENROOF WILL COVER THE ENTIRE AREA WITH HARDY PLANTING WHICH WILL ESTABLISH SLOWLY BUT THE LONG TERM BIODIVERSITY IS PROPOSED TO BE OF HIGH VALUE. THE GROWING MEDIUM WILL BE TYPICALLY 20-150mm THICK WHICH WILL PROVIDE WATER RETENTION ASSUMED FOR THE FIRST 5mm OF RAINWATER THAT LANDS ON IT. ONCE THE MEDIUM IS FULLY SATURATED; SURFACE WATER WILL ENTER THE BELOW GROUND DRAINAGE SYSTEM.

A FLOW CONTROL CHAMEBR HAS BEEN PROPOSED TO CONTROL THE SURFACE WATER DISCHARGING INTO THE THAMES WATER SEWER. THE CONTROL RATE IS 0.8 I/s AND ACHIEVED USING A HYDROBRAKE (VORTEX FLOW CONTROL DEVICE).

DESIGN NOTES / CONDITIONS:

- THIS DRAWING HAS BEEN ISSUED FOR THE PURPOSES OF PLANNING CONDITIONS SIGN-OFF AND NOT CONSTRUCTION LEVEL DESIGN.
- ANY REQUIREMENTS FOR GULLIES OR CHANNEL DRAINS TO BE CONFIRMED BY THE ARCHITECT/LANDSCAPE ARCHITECT. ANY GULLY AND ACO CHANNELS SHOULD BE POSITIONED SUCH TO CAPTURE THE EXTERNAL LAND FALLS AND GRADIENTS. SIZE OF CHANNELS AND GULLIES TO SPILLWAYS LIMITED DESIGN.
- 3. ALL GULLIES AND CHANNELS TO BE TRAPPED UNITS. SPECIFICATION FOR ALL INTERNAL GULLIES REQUIRED.
- 4. FINAL EXTERNAL LEVELS AND LANDSCAPING STRATEGY TO BE CONFIRMED. FOUNDATION TYPE AND DETAIL LEVELS DATA TO BE PROVIDED TO SPILLWAYS LIMITED TO PROVIDE DESIGN OF PIPE PENETRATIONS THROUGH THE STRUCTURE BELOW GROUND.
- ANY CAVITY DRAIN REQUIREMENTS TO BE CONFIRMED BY OTHERS.
- ANY TREES MUST INCORPORATE ROOT BARRIERS TO PREVENT DAMAGE TO BELOW GROUND DRAINAGE. THIS IS TO LANDSCAPE ARCHITECT SPECIFICATION AND DETAIL
- 8. LANDSCAPE ARCHITECT TO CONFIRM MANHOLE COVER ORIENTATION.

CWMH-01	
CL:	41.500m
L:	40.912m - 100Ø (IN) - A BD
L:	39.580m - 150Ø (IN) - B
L:	40.300m - 100Ø (IN) - C BD
L:	39.580m - 150Ø (IN) - D
L:	40.975m - 100Ø (IN) - E BD
L:	39.580m - 150Ø (IN) - F
L:	39.530m - 150Ø (OUT)

CPS

INLET [B] IS TO BE FITTED WITH A FLAP VALVE

AGREEMENT AND DIVERSION





BELOW GROUND SURFACE WATER PIPE

PRE-CAST CONCRETE MANHOLE 1200Ø SURFACE WATER

CL 41.518

LINEAR CHANNEL

BELOW GROUND COMBINED WATER PIPE

PRE-CAST CONCRETE MANHOLE 1200Ø COMBINED WATER CHAMBEE

PIPES TO BE REMOVED FROM THE GROUND AS PART OF DIVERSION WORKS

EXISTING PUBLIC SEWER

COMBINED WATER DRAIN SUBJECT TO APPROVAL. CAPACITY CHECK **RESPONSE PENDING.**

