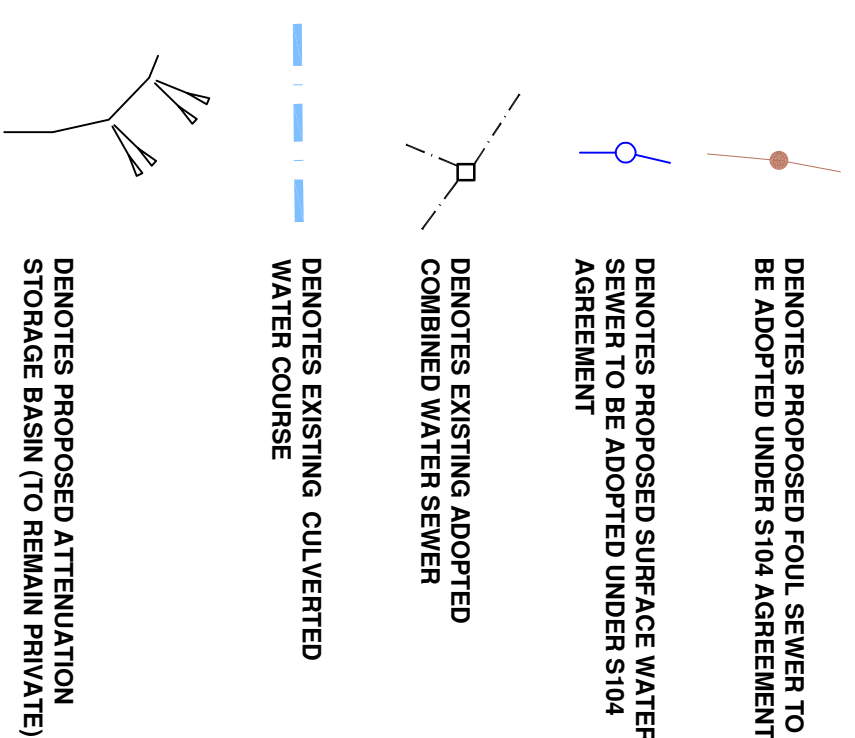




THE OFF SITE SEWER CONNECTION(S) HAVE BEEN DESIGNED IN ACCORDANCE WITH INFORMATION AND FRA PROVIDED BY THE CLIENT

REFA WOULD ADVISE THE CLIENT TO EMPLOY A SUITABLE EXPERIENCED COMPANY TO UNDERTAKE TRIAL HOLES TO ASCERTAIN THE EXACT LOCATION OF EXISTING SERVICES AND THE PROXIMITY OF THE SAME TO THE PROPOSED SEWERS AND THEN TO ADVISE REFA OF ANY POTENTIAL CLASHES TO ENABLE DESIGN CHANGES TO BE MADE WHERE FEASIBLE

DUE TO THE NEED FOR OFF SITE SEWER WORKS IT IS STRONGLY ADVISED THAT THESE INVESTIGATIONS ARE UNDERTAKEN PRIOR TO ANY CONSTRUCTION ON SITE TO ALLOW DESIGN CHANGES TO BE MADE:

**RESPONSIBLE FOR ANY ABORTIVE
WORKS IF THIS PROCEDURE IS
NOT FOLLOWED**

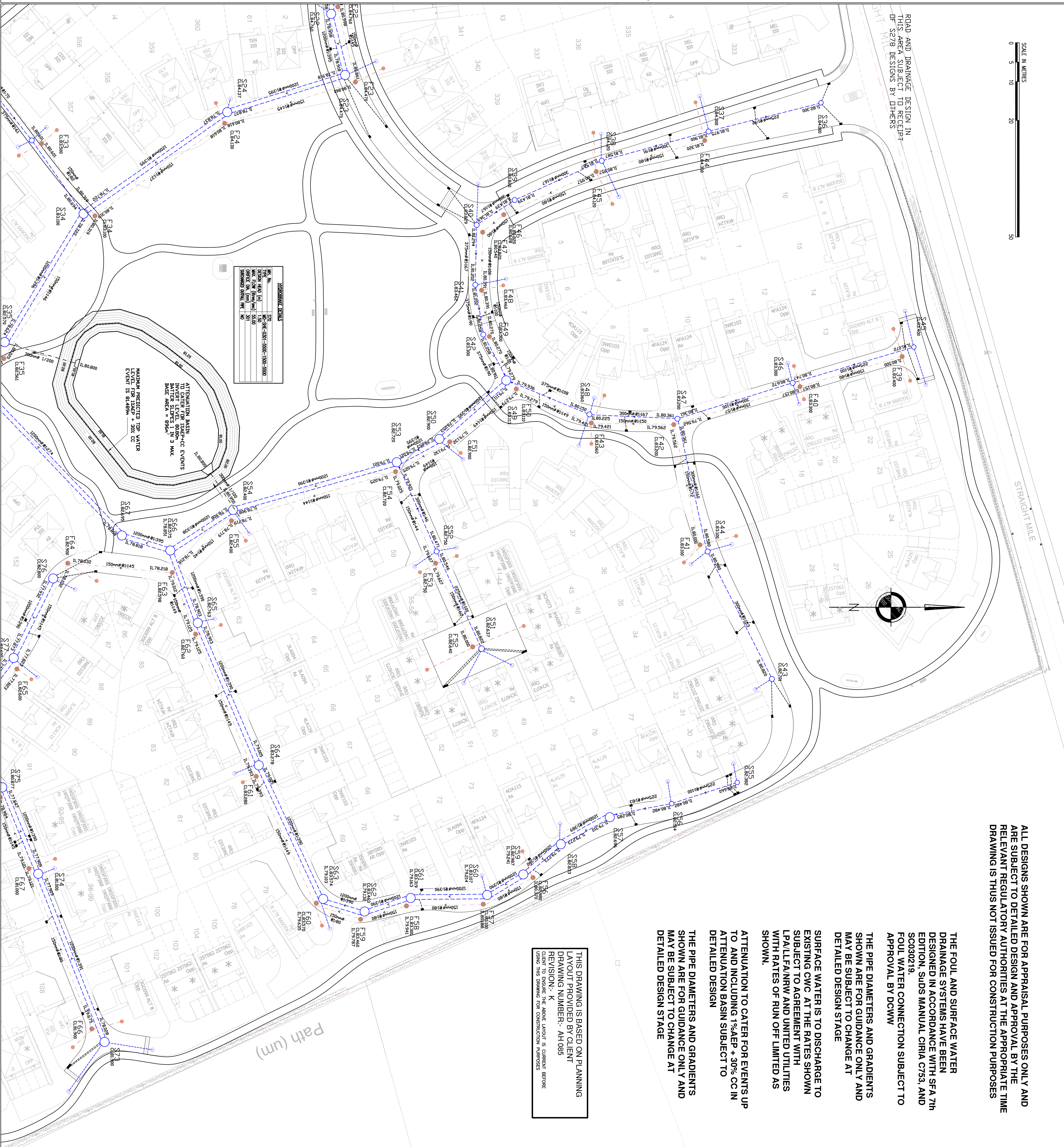
REFA WOULD ADVISE THE CLIENT THAT A DETAILED OFF SITE SURVEY SHOULD BE UNDERTAKEN AT THE EARLIEST OPPORTUNITY TO ENABLE THE FEASIBILITY DRAWINGS TO BE UPDATED WITH ACCURATE INFORMATION OF PARTICULAR IMPORTANCE ARE :-

1. EXISTING MAINS SERVICES AND OTHER APPARATUS
2. EXISTING SEWER INVERT LEVELS
3. THE DEPTHS SIZE AND LOCATION OF

PROPOSED TO CONNECT SURFACE WATER, NOT ONLY TO CONFIRM THE SURFACE WATER CONNECTION BUT ALSO TO MAKE A PROPER ASSESSMENT OF THE FOUL WATER SEWER WHICH NEEDS TO PASS EITHER UNDER OR ABOVE THE CULVERT

DUE TO LACK OF AVAILABLE INFORMATION ON SEWER RECORDS AND SURVEY IN RELATION TO EXISTING SEWER NETWORK IT IS IMPERATIVE THAT WHERE INVERT LEVELS HAVE BEEN ASSUMED OR INTERPOLATED THESE ARE VERIFIED AS CORRECT BY CLIENT / CONTRACTOR PRIOR TO ANY CONSTRUCTION WORKS TAKING PLACE. REFA ACCEPT NO RESPONSIBILITY FOR THE ACCURACY OF SEWER RECORD INFORMATION OR SURVEY INFORMATION.

ANY DISCREPANCIES ARE TO BE REPORTED TO REFA TO ENABLE DESIGNS TO BE CHECKED AND IDENTIFY AS NECESSARY



ALL DESIGNS SHOWN ARE FOR APPRAISAL PURPOSES ONLY AND ARE SUBJECT TO DETAILED DESIGN AND APPROVAL BY THE RELEVANT REGULATORY AUTHORITIES AT THE APPROPRIATE TIME. DRAWING IS THUS NOT ISSUED FOR CONSTRUCTION PURPOSES

THE FOUL AND SURFACE WATER DRAINAGE SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH SFA 7 EDITION, SUDS MANUAL CIRIA C753, AND SC030219.

**FOUL WATER CONNECTION SUBJECT TO
APPROVAL BY DCWW**

THE PIPE DIAMETERS AND GRADIENTS SHOWN ARE FOR GUIDANCE ONLY AND MAY BE SUBJECT TO CHANGE AT DETAILED DESIGN STAGE

SURFACE WATER IS TO DISCHARGE TO EXISTING CWC AT THE RATES SHOWN SUBJECT TO AGREEMENT WITH LPA/LFA/NRW AND UNITED UTILITIES WITH RATES OF RUN OFF LIMITED AS SHOWN.

ATTENUATION TO CATER FOR EVENTS UP
TO AND INCLUDING 1%AEP + 30% CC IN
ATTENUATION BASIN SUBJECT TO
DETAILED DESIGN

THE PIPE DIAMETERS AND GRADIENTS SHOWN ARE FOR GUIDANCE ONLY AND MAY BE SUBJECT TO CHANGE AT DETAILED DESIGN STAGE

THIS DRAWING IS BASED ON PLANNING LAYOUT PROVIDED BY CLIENT
DRAWING NUMBER:- AH 085
REVISION:- K
CLIENT TO ENSURE THE ABOVE LAYOUT IS CURRENT BEFORE
USING THIS DRAWING FOR CONSTRUCTION PURPOSES

- GENERAL
1. All adoptable sewers and associated works are to comply fully with "Sewers for Adoption" 7th Edition dated August 2012.

2. All findings made by the local authority must be reported to the relevant government department.
3. All relevant findings must be made public, with part of the Building Regulations.
4. All meeting must be to be checked by the relevant government department and any discrepancies noted to REFA.
5. All members to have the relevant SAS/Greenleaf comply fully with the specifications.
6. All opening notices, as required under the Building Regulations, must be submitted to the relevant government department (unless the site investigation report proves that suitable attack from sites and groundwater will not occur).
7. All findings must be made public and the relevant government department must be notified prior to the relevant government department.

C.D.M. REGULATIONS 2015

In line with the above regulations we are obliged to inform the client of their responsibilities under section OMA 15(1), and residual risks that may be associated with the best available treatment, and safety aspects given full consideration. Wherever possible risks have been eliminated from the design, however due to the very nature of this type of work it is not possible to remove all the risks from the design, namely the Client's obligations to take all reasonable steps in manufacturing to take all reasonable steps in manufacturing that only competent contractors who have a valid safety policy are employed.

They should also provide satisfactory responses at tender stage to the manner in which they will manage the inherent risk involved in this type of work, and the particular issues highlighted by EIRA below:-

1. Support / treatment for ALL excavation work.
2. Guarding to edges of excavations to prevent people, materials and vehicles falling into excavations.
3. Guarding of excavations outside working hours.
4. Prevent unauthorised access.
5. Undermining to adjacent roads or structures.
6. Confined space operations.
7. Dealing with existing services.
8. Traffic management on existing highways.

8. Procedure to be followed in event of accident or emergency.
 9. Method of working where contaminated ground is present on site.
 10. Confirmation will be required that all operatives are adequately trained, copies of relevant training certificates to be supplied.
- The above list is by no means exhaustive but it does highlight operators that present a risk to contractors and the general public.
- For clarification on any item please contact NEFA.

[illegible]

Drawing Stage		Drawing Status	
● Draft		Comments	Tender
Issued	●	Information	Construction
		Approval	As Built

**ANWYL CONSTRUCTION
BELLWAY HOMES**

**GRESFORD ROAD
LLAY**

DRAINAGE FEASIBILITY
DRG 2 OF 7

**45 Bridge
Wigan, La
WN1 1TT
Tel: - (019)
Fax: - (01)**

CIVIL • STRUCTURAL
GEOTECHNICAL • ENVIRONMENTAL

Date 11.4.17	Scale 1/500	Drawn GMM
DRAWING No	17040/06/2	Rev G