

USING THIS DRAWING FOR CONSTRUCTION PURPOSES

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 DESIGN IS BASED ON CURRENT GUIDANCE HOWEVER THERE MAY BE CHANGES IN THE FUTURE BY STATUTORY AUTHORITIES WHICH MAY HAVE AN IMPACT ON THE CURRENT DESIGN AND SURFACE WATER STORAGE VALUES AND REQUIREMENTS.

THE OFF SITE SEWER CONNECTION(S) HAVE BEEN DESIGNED IN ACCORDANCE WITH INFORMATION FROM DCWW RECORDS & SURVEY INFORMATION.

REFA WOULD ADVISE THE CLIENT TO EMPLOY A SUITABLY 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.

REFA WILL NOT BE HELD RESPONSIBLE FOR ANY ABORTIVE WORKS IF THIS PROCEDURE IS NOT FOLLOWED

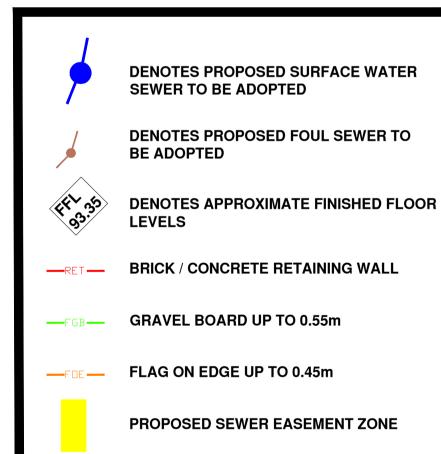
THE FOUL AND SURFACE WATER DRAINAGE SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH DESIGN & CONSTRUCTION GUIDANCE, SuDS MANUAL CIRIA C753, AND SC030219 AND THE FRA AND ARE SUBJECT TO APPROVAL BY RELEVANT WATER AUTHORITY, LLFA.

THE FOUL WATER SYSTEM IT TO CONNECT VIA GRAVITY INTO AN EXISTING FW SEWER WITHIN HEOL DIRION AND IS SUBJECT TO APPROVAL BY DCWW.

INFILTRATION HAS BEEN DISCOUNTED AS A SUITABLE MEANS OF SURFACE WATER DISPOSAL DUE TO GROUND CONDITIONS.

THE SURFACE WATER SYSTEM HAS BEEN DESIGNED TO CONNECT TO THE SW SEWER WITHIN HEOL DIRION AND IS 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



PLEASE NOTE THAT THE FLOOR LEVELS SHOWN ARE FOR APPRAISAL PURPOSES ONLY AND WILL BE SUBJECT TO REVIEW / CHANGE AT DETAILED ROAD AND SEWER DESIGN STAGE

FOUNDATIONS TO BE DESIGNED TO TAKE INTO ACCOUNT ANY ADJACENT DEEP SEWERS

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 IMPORATNCE ARE:-

- 1. EXISTING MAINS SERVICES AND OTHER APPARATUS
- 2. EXISTING SEWER INVERT LEVELS

## GENERA

- All adoptable sewers and associated works are to comply fully with "Design and Construction Guidance"
- 2. All highway works to be to adoptable standards and to
- to comply fully with the Local Authority specification.

  3. All private drainage works are to comply fully with part H of the Building Regulations
- All existing invert levels to be checked by the Contractor at the start of works and any discrepancies notified to REFA.
   All levels are based on topographical survey

information provided by others.

- All materials to bear the relevant B.S.Kitemark and comply fully with the specifications.
   All concrete & concrete products must use Sulphate resistant cement (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur)
- All opening notices etc. as required under highways acts etc. are to be obtained prior to commencement of works.
   All works are to be inspected by L.A., NHBC or Relevant Water Authority as applicable.

C.D.M. REGULATIONS 2015

In line with the above regulations we are obliged to inform the Client of their responsibilities under section CDM 15/1, and residual risks that may be encountered in the construction of these works. All design work has been carried out with Health 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.

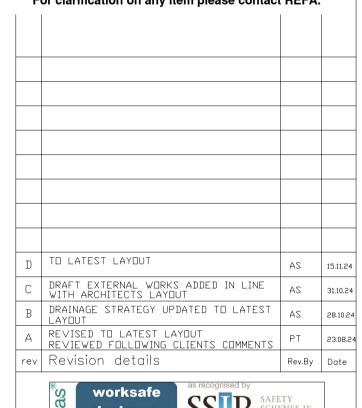
We would also respectfully remind the Client of his obligations to take all reasonable steps in ensuring that only competent Contractors who have a valid safety policy are employed.

They should also provide satisfactory responses at

tender stage as to the manner in which they will deal with the elements of risk involved in this type of work and in particular those highlighted by REFA below:-

Support / treatment for ALL excavation work.
 Guarding to edges of excavations to prevent

- people,materials and vehicles falling into excavation.3. Guarding of excavations outside working hours to prevent unauthorised access.4. Undermining to adjacent roads or structures.
- 5. Confined space operations.6. Dealing with existing services.
- 7. Traffic management on existing highways.8. Procedure to be followed in event of accident or emergency.
- 9. Method of working where contaminated ground is
- 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 operations that present a risk to contractors and the general public.
  For clarification on any item please contact REFA.



Drawing Stage Drawing Status

● Draft ● Comments Tender

Issued Information Construction

Approval As Built

Client

www.smasltd.com

## CASTLEMEAD GROUP LIMITED

Job title

GLYN FARM HEOL DIRION

Drawing title

DRAINAGE

23.07.24

REFA

**STRATEGY** 

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CIVIL• STRUCTURAL

GEOTECHNICAL• ENVIRONMENTAL

late Scale Drawn

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DRAWING No 24036/100/1