-DRAINAGE KEY-

- Storm Water (Private Drain/Public Sewer)
- 250Ø Polypropylene Shallow Storm Water IC
- 480Ø Polypropylene Storm Water IC
- Soakaway - Trench Fill (Infiltration)
- Soakaway 5.0m Exclusion Zones
- Cesspool (Refer to Specification)
- Foul Water (Private Drain/Public Sewer)
- Foul Water (Private Drain Suspended)
- 250Ø Polypropylene Shallow Foul Water IC
- 480Ø Polypropylene Foul Water IC
- FFL #### — Proposed Finished Floor Level
- (3) — Approx Extension of Hard Paving (Porous)

Refer to Architects drawings for further information on plot internal detailing, service points and threshold drainage details.

Manholes referenced as (#) are to be installed to the discretion of the contractor as follows:
PPIC250ø/PPIC480øc
0.450 Depth (min)
0.600 Depth (max)

In the absence of full Topographical survey information the drainage design has been annotated on the Ordnance Survey (OS) data provided at planning stage.

The levels shown are illustrative only.

All drainage apparatus 'line & level' shall be determined on site to the satisfaction of the Building Control Officer.

TOTAL ROOF TO SOAKAWAY = 127 sq. m

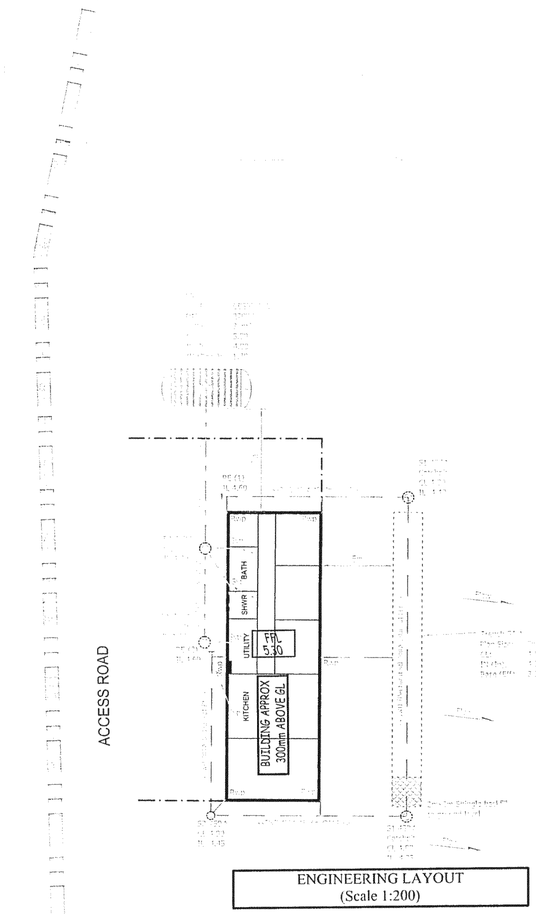
EXISTING BARN 1

EXISTING BARN 2

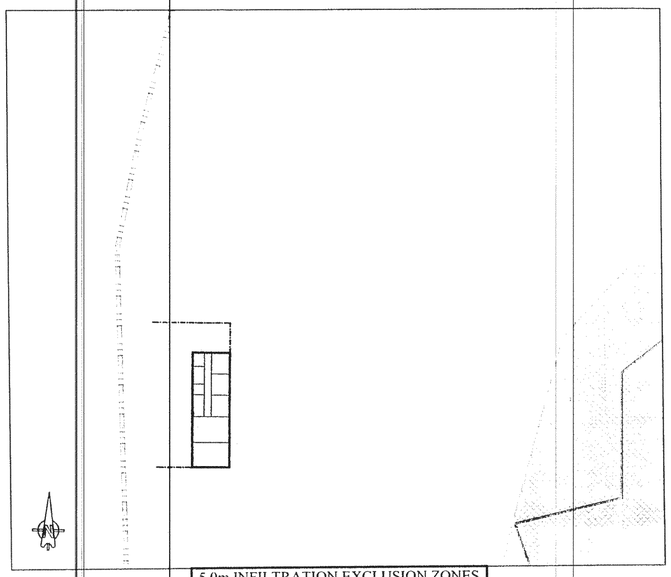
COURTYARD

TANGMERE AIRFIELD

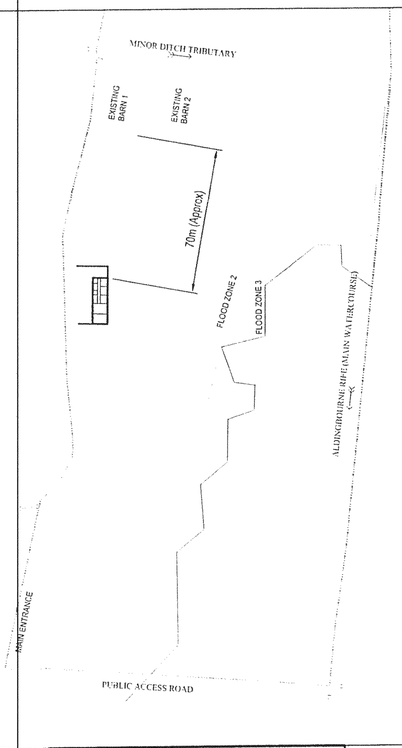
ACCESS ROAD



ENGINEERING LAYOUT
(Scale 1:200)



5.0m INFILTRATION EXCLUSION ZONES
(Scale 1:500)



LOCATION PLAN
(Scale 1:1250)

STANDARD NOTES:

1. This drawing is to be read in conjunction with all other listed drawings, and with all relevant Architect's and Engineer's drawings and specification.
2. No dimensions are to be scaled from this drawing. Unless noted otherwise all dimensions are in millimeters and all levels are in metres from the site datum.
3. All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
4. The electronic information from this drawing can not be guaranteed as dimensionally exact. Figured dimensions must be used for setting out and detailing. *
5. The main Contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
6. The main Contractor is responsible for dealing with all occurrences of ground water during the construction period.
7. The contractor must comply with all current legislation relating to Health & Safety.

DRAINAGE NOTES:

1. All works to be constructed in strict accordance with specification of the Local Authority, BS8301 1985 & BSEN 752-.
2. All pipe runs near buildings to comply with the Building Regulations 2002 Part H1. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the footing on the trench shall be filled with class GEN3 concrete to a level below the lowest level for the foundation equal to the distance from the footing or less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN3 concrete.
3. Where pipes external to the structures have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete encasement (150mm thick).
4. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreboard or polystyrene) shall be provided at a maximum of 6m centres (according with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 10mm for pipes up to 450mm internal diameter and 25mm for pipes over 450mm internal diameter.
5. All private building drainage shall be constructed in strict accordance with- BSEN 752.4. Unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of 1:40 (2.5) in accordance with H1 to BC for foul drains and 1 in 80 for surface water drains. All building drains shall be laid in concrete in accordance with 'non adoptive bedding details' (class D, N or B) unless otherwise specified.
6. All pipes, bends and junction materials shall be vitrified clay, extra strength or super strength to BSEN295 1991 with flexible joints and kitemark certified. Alternatively all pipes and fittings can be UPVC conforming to BS4660 and BS5481 1985 as appropriate and shall be laid in accordance with the manufacturer's specification. If UPVC pipes are to be used then the manufacturer shall be approved by the Engineer prior to construction.
7. All connections to be soffit to soffit.
8. Trench temporary support is required to all excavations exceeding 1.2m depth to provide adequate support and stability at all times.
9. Sewers exceeding 2.0m depth to be constructed in single sections between manholes only. Trenches to be backfilled prior to excavating the succeeding length.
10. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
11. Where drains or drains are to be abandoned they shall be removed or instilled by grouting in accordance with the Civil Engineer Specification for the Water Industry 6th Edition, Clause B 23.
12. All soakaways and/or infiltration devices to be to Building Control Officer/Environment Agency.
13. All water pits to be agreed with the local authority prior to the commencement of works.
14. Manhole covers and frames situated in the carriageway and vehicular accessed shall be class D400 cover and frame 675mmx675mm clear opening in accordance with EN 124.
15. Manhole covers and frames situated in areas other than the carriageway and vehicular accessed shall be to EN 125 class B125 cover and frame 675mmx675mm clear opening.

REFER TO DRAWING 02 & 03 FOR CONSTRUCTION DETAILS

AL/42/12/DOC

ISSUED FOR BUILDING REGULATIONS APPROVAL ONLY CLIENT SHEEPWASH FARM	DEVELOPMENT AT SHEEPWASH FARM, ALDINGBOURNE ENGINEERING LAYOUT MJA FEB 2012 AS SHOWN 01 -	MARK AKMENKALNS Infrastructure Engineer Email: markakmenkalns@hotmail.com Mob: 07980568081

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