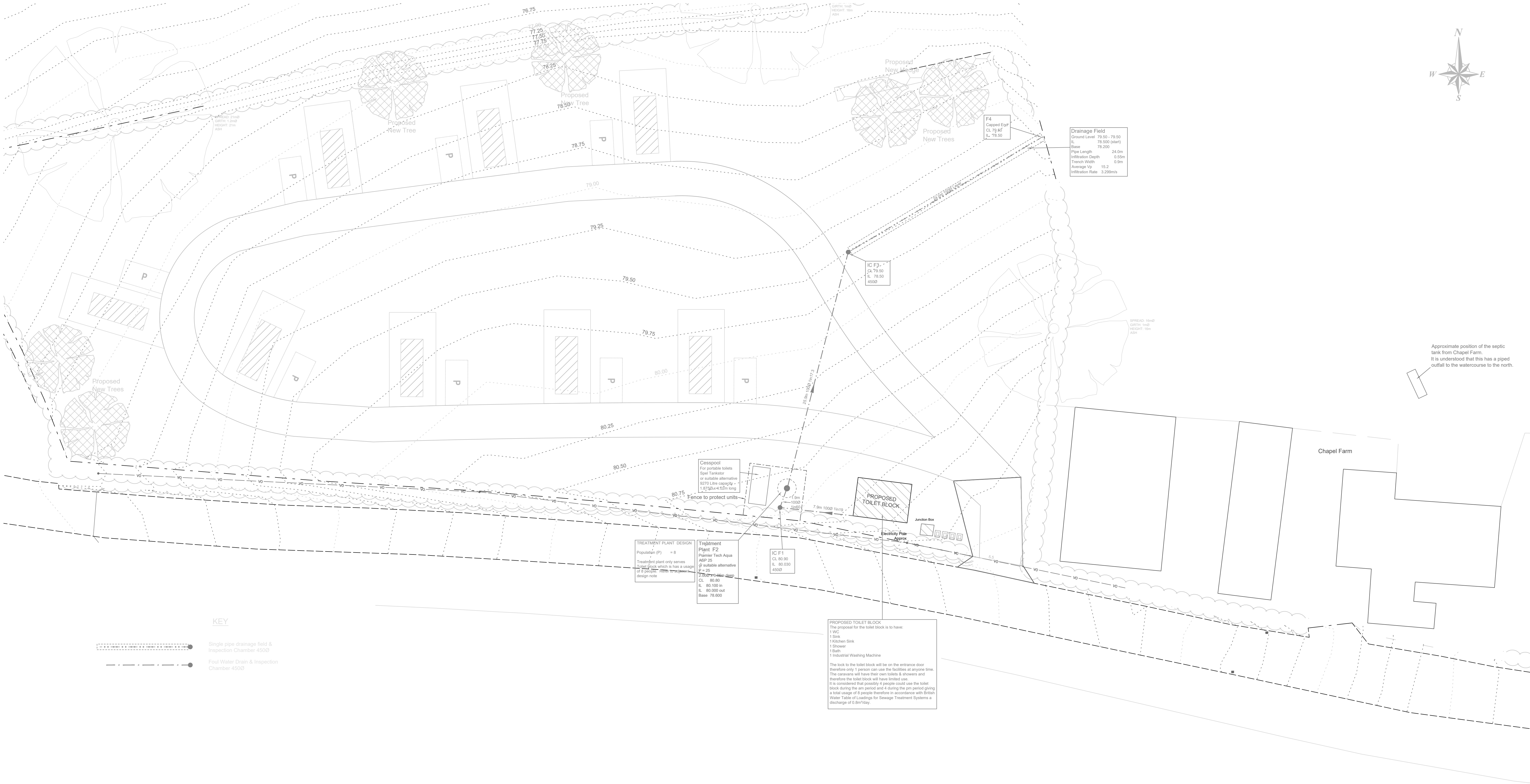




KEY

- Single pipe drainage field & Inspection Chamber 450D
- Foul Water Drain & Inspection Chamber 450D

TREATMENT PLANT DESIGN
Population (P) = 8
Treatment plant only serves
Original block which is the subject
of 8 people. (see separate
design note)

Treatment
Plant F2
Primer Tech Aqua
ASP 25
9' suitable alternative
P = 25
2700mm dia deep
CL 80.80
IL 80.100 in
IL 80.000 out
Base 78.600

Cesspool
For portable toilets
Septic tank
or suitable alternative
9270 litre capacity -
1.6750x4 0.5m long

IC F1
CL 80.80
IL 80.030
450D

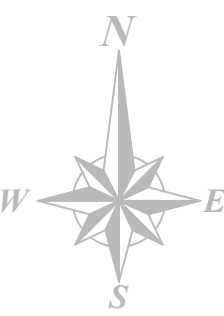
PROPOSED TOILET BLOCK
The proposal for the toilet block is to have:
1 WC
1 Sink
1 Kitchen Sink
1 Shower
1 Bath
1 Industrial Washing Machine

The lock to the toilet block will be on the entrance door
therefore only 1 person can use the facilities at anyone time.
The caravans will have their own toilets & showers and
therefore the toilet block will have limited use.
It is considered that possibly 4 people could use the toilet
block during the am period and 4 during the pm period giving
a total usage of 8 people therefore in accordance with British
Water Table of Loadings for Sewage Treatment Systems a
discharge of 0.8m³/day.

Drainage Field
Ground Level 79.50 - 79.50
IL 78.500 (start)
Base 78.200
Pipe Length 24.0m
Infiltration Depth 0.55m
Trench Width 0.8m
Average Vp 15.2
Infiltration Rate 3.268m/d

F4
Capped Eyr
CL 79.87
IL 78.80

SPREAD: 10m/0
LIGHTS: 1100
HEIGHT: 1500
ASH



Approximate position of the septic
tank from Chapel Farm.
It is understood that this has a piped
outfall to the watercourse to the north.

Notes

- All drainage works are to be constructed in accordance with The Welsh Ministers Standards for Sewers and Lateral Drains, Welsh Building Regulations 2010 Edition Approved Document H or current British Standards for Drainage.
- Drainage and Waste Disposal Approved Document H 2015, states that:
 - A drainage field or mound serving a wastewater treatment plant or septic tank should be located:
 - At least 10m from any watercourse or permeable drain.
 - At least 50m from the point of abstraction of any groundwater supply and not in any Zone 1 groundwater protection zone.
 - At least 15m from any building.
 - Sufficiently far from any other drainage fields, drainage mounds or soakaways so that the overall soakage capacity of the ground is not exceeded.
 - The disposal area should be downslope of groundwater sources.
 - No water supply pipes or underground services other than those required by the disposal system itself should be located within the disposal area.
 - No access roads, driveways or paved areas should be located within the disposal area.

Notes

- Do not scale from this drawing.
- All drawings are to be checked by the contractor and setting out engineer and read in conjunction with one another to ensure they are mutually compatible with each other before any setting out or construction commences.
In the event of apparent ambiguity or contradiction the engineer and/or architect shall be notified immediately. Sumner Consultancy accepts no liability in the event of not being so notified and where construction work has commenced.
- The site survey was produced by Green Planning Studio Limited Reference: whitewell-20. Levels & grid are to OS Datum. Sumner Consultancy have not undertaken, nor have been instructed to undertake, any special investigations to verify the information provided. The Principle Contractor, sub contractors and others who may need to rely on this information must ascertain its accuracy before commencing the works. Sumner Consultancy accept no responsibility or liability for the accuracy of this information.
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- The site layout is an extract from Green Planning Studio's Proposed Site Drawing No. 20_1124_003 CAD Ref: 20_1124 Chapel Farm Whitewell- Site Plan. Received on 24-09-21. This is shown for information purposes only and must not be used for setting out purposes. Sumner Consultancy have not undertaken, nor have been instructed to undertake, any special investigations to verify the information provided. The Principle Contractor, sub contractors and others who may need to rely on this information must ascertain its accuracy before commencing the works. Sumner Consultancy accept no responsibility or liability for the accuracy of this information.

Revisions

Rev	Date	Description
A	21-10-21	Position of toilet block & associated drainage revised
B	01-11-21	Position of toilet block & associated drainage revised
C	22-03-22	Drainage field extended due to revised permeability tests
D	19-12-22	Drainage field extended & drainage from Chapel Farm added.
E	24-01-24	Drainage from Chapel Farm deleted. Note added regarding revised toilet block.
H	20-03-24	Treatment plant design note updated.

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Drawing Size: A1

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Project: CHAPEL FARM WHITEWELL
WHITCHURCH

Drawing
Title: DRAINAGE

Scale: 1:200 Drawn by: JRS Date: September 2021

Drawing
Number: 719-21-15 Revision: H