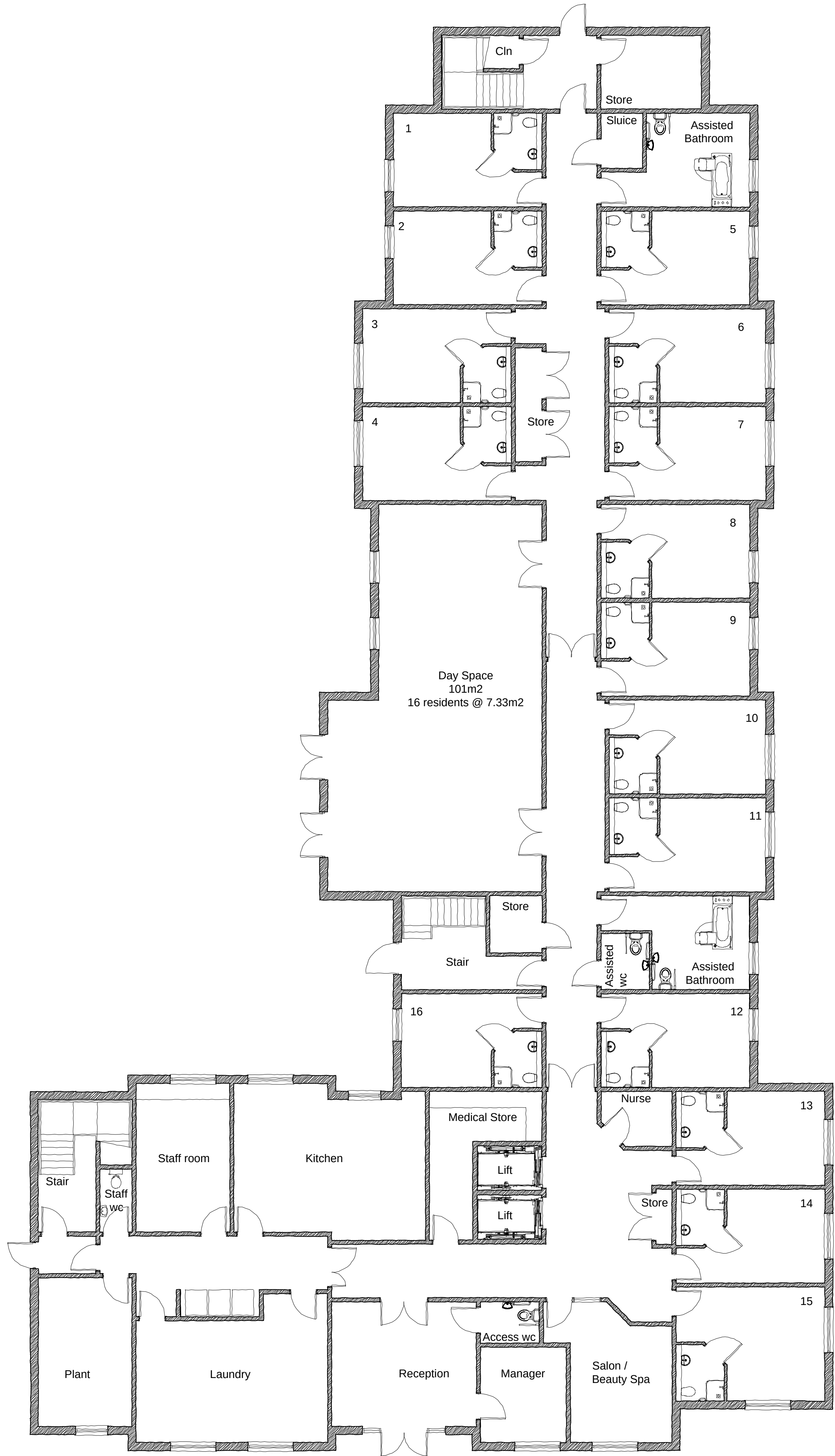
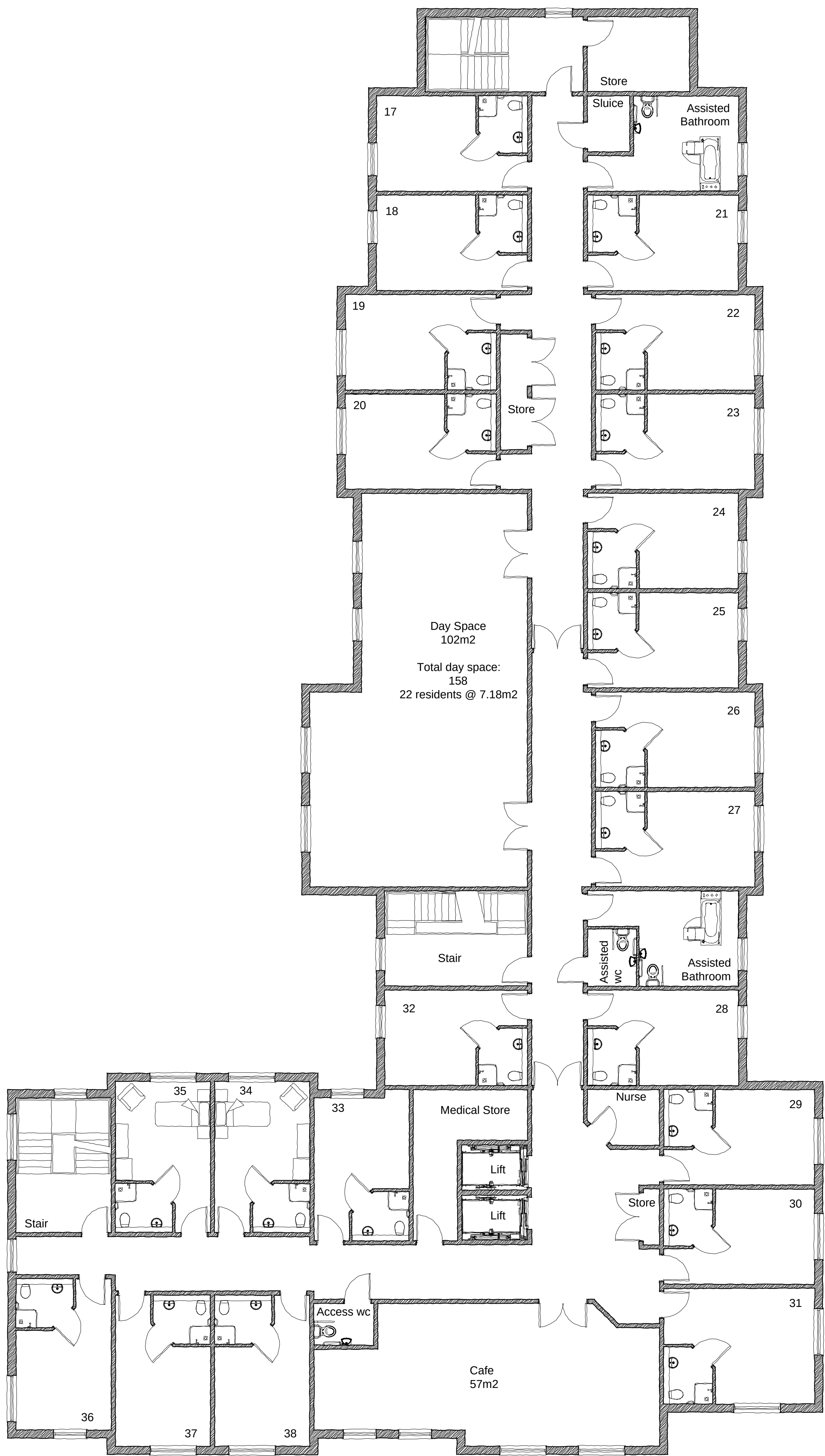








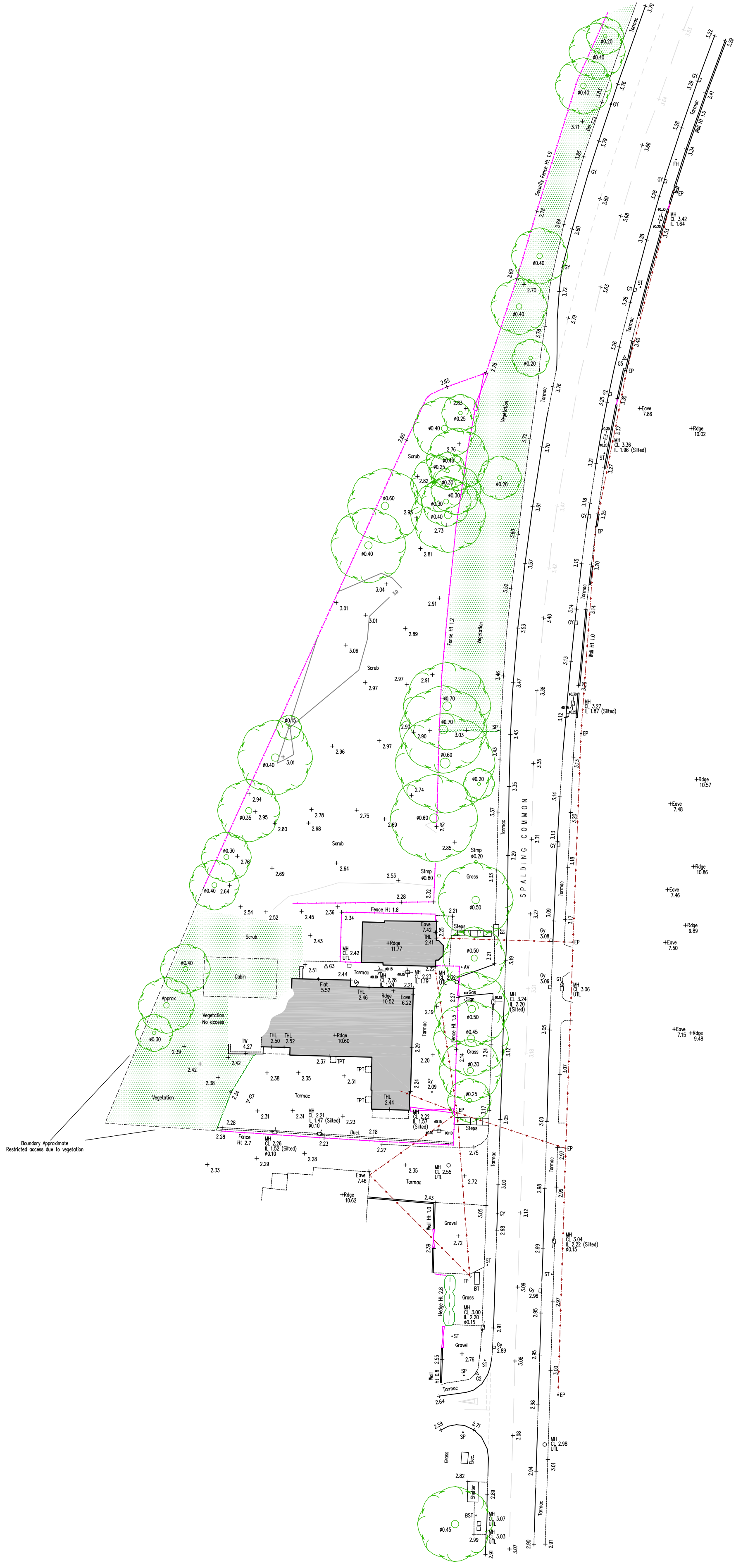
Materials Key: External walls to be clad using red brick, and a coloured render system Roof to be clad using roof tiles and a proprietary flat roofing system External windows and doors to be UPVC framed, double glazed units RWGs to be PPC aluminium

Client:	Country Court Care Group	Project Title:	Proposed Care Home at Good Fellows School, Spalding Common, Spalding	Drawing Title:	Proposed Elevations
Scale:	1:150 @ A2	Date:	26.09.2016	Project No.:	0076
		Drawing No.:	(21)001	Rev:	A01
		Status:	PLANNING		

LineStyle
ARCHITECTURE

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Abbreviations	
(where applicable)	
AV	Air Valve
BB	Bullfinch Beacon
BC	Building Canopy
BH	Borehole
BL	Bed Level
BM	Bench Mark
BDY	Boundary
BO	Bollard
BS	Bullfinch (Tree)
BST	Bus Stop
BT	Bullfinch Telecom Manhole
CE	Cat's Eye
CCTV	Closest Circuit Television
CR	Cycle Rack
CTV	Cable Television Manhole
CUL	Culvert
DK	Drop Kerb
DP	Drain Pipe
DPC	Damp Proof Course
D	Drain
DCP	Dynamic Core Penetrometer
DWS	Dog Waste Bin
EB	Electricity Box
EP	Electricity Pole
ER	Earthling Rod
FEL	Finished Floor Level
JFL	Flag Pole
GP	Gate Post
GS	Gravestone
GY	Gully
PH	Hydrant
IC	Inspection Chamber
IS	Information Sign
IT	Intercom
JTN	Junction Box
KO	Kerb Outlet
LP	Lamp Post
ME	Meter Manhole
MH	Manhole
MK	Marker
MS	Multi-Storey (Tree)
MY	Mercury Manhole
NB	Notice Board
RNB	Road Name Board
P	Post
PEO	Pedestrian Pad
PI	Pipe
PM	Ranking Meter
PP	Power Point
RE	Rising Eye
RTW	Retaining Wall
RWP	Rainwater Pipe
SP	Sign Post
SDP	Stand Pipe
SK	Soakaway
SO	Soft Level
ST	Stop Tap
SU	Stump (Tree)
SV	Stop Valve
SVP	Soil Vent Pipe
SW	Storm Water
SY	Stay (e.g. Pylon, TP)
TBM	Temporary Benchmark
TCB	Telephone Call Box
TH	Threshold Level
TL	Traffic Light
TW	Top of Wall
TP	Telegraph Pole
TP	Trail Pit
TS	Traffic Signal Manhole
UB	Under Beam
UTL	Unable To Lift
VP	Vent Pipe
WCL	Window Cill Level
WHL	Window Head Level
WL	Water Level
WM	Water Meter

Survey Control			
Station	Easting	Northing	Level
G1	523336.843	320437.744	3.057
G2	523333.173	320375.359	2.828
G3	523299.051	320440.488	2.448
G5	523346.837	320537.884	3.368
G7	523286.536	320418.877	2.325

Grid & Datum	
Grid:	Local Grid ☐ Nat. Grid ☒ Nat. Grid (e.g. N.T.) ☐ Existing Grid ☐
Datum:	Local Datum ☐ Nat. Grid ☒ Nat. Grid (e.g. N.T.) ☐ O.S.B.M. ☐

General Notes

1. Do not scale this drawing. All dimensions must be checked / verified on site. If in doubt ask.

2. All dimensions are in metres.

	25/12/14	Original Issue	
Rev	Date	Description	CAD

Client

Linestyle Architecture



BluePlan

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W: www.blueplan.co.uk

Regulated by the RICS

Location

Goodfellows School
Spalding
Lincolnshire

Title

Topographical Survey

Scale

Plotted Scale: 1:500
N.T. Survey Scale: 1:200

Surv:LS	CAD: LS	Checker: CM	Rev: -
Date: 15/12/14		Job No. 2019	

-  Existing tree to be retained
-  Proposed tree
-  Root protection area

- A 1200Ø Conc MH with silt sump.
- B DPM Sealed cellular block stormwater storage tank.
Size TBA pending deep bore falling head soakaway results.
- C Deep Bore Soakaway. " No. Shown - More may be required
subject to testing.
- D Standard private gravity storm drainage system.

National Rail Boundary

National Rail Boundary
20m Easement Line.
No SUDS systems permitted
within easement zone.

BH2 from AG ground investigation.
Soakaway testing yields $k = 5.33 \times 10^{-5}$ m/s.

BH3 from AG ground
investigation.
Soakaway testing yields
 $k = 3.02 \times 10^{-7}$ m/s.

Design Constraint Notes

Consultation with National Rail confirms that no SUDS percolation system can be located within 20m of the NR boundary line.

The re-location of the SUDS system to the car park area was considered, however, ground investigation percolation test results yielded a good result to the North of the site in BH2 but a very poor result in BH3 to the South of the site. As such, half drain times within this area would not be compliant with BRE365 and flood risk would be increased.

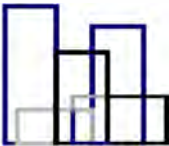
Connection to the local sewer network is not feasible as the sewers are foul only with no capacity for storm flow.

The development surface water strategy is to deal with all runoff using a 'deep bore' soakaway system.

All proposals will be subject to further testing, investigation and advice from a Specialist Geotechnical Engineer. Falling head Soakaway tests will need to be carried out in the vicinity of the new proposed soakaway structures and advice be taken on the capacity/flow characteristics of a deep bore soakaway solution.

If it is deemed that deep bore soakaway(s) will be able to accommodate storm runoff from the development, we envisage approx 2 deep bore soakaways plus the possibility of an attenuation tank within the car park area to accommodate runoff from a high intensity storm until this water percolates down the bore holes.

Following the testing procedure, the hole liners will be left in place to form the permanent pipes for the deep bore soakaways.

A SN 15.03.16 Deep Bore Option Added			
Rev	By	Date	Details
Drawing Status			Chkd
Information			
 Construction Design Solutions Consulting Civil, Structural, Highway & Drainage Engineers 78 Wollaton Road, Beeston, Nottingham. NG9 2NZ. Tel: 0115 922 9491 Fax: 0115 922 7451 General E-mail: design@cdsconsulting.co.uk Website: www.cdsconsulting.co.uk			
Client Country Court Care			
Project Proposed Care Home Spalding Common			
Title Drainage Constraints and Proposals Plan			
Scale (A3) 1/500	Drawn by. SN	Drg. No. 2014.5563.SK03B	
Date. Mar 2016	Checked by.		



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Date: 20/05/15

Scale: 1:1250

Map Centre: 523306,320448

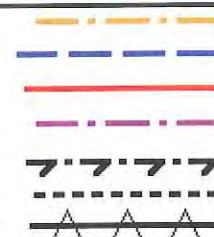
Data updated: 01/05/15

Our Ref: 141997 - 1

Wastewater Plan A3

This plan is provided by Anglian Water pursuant its obligations under the Water Industry Act 1991 sections 198 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any works. The actual position of all apparatus MUST be established by trial holes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy or omission, including the failure to accurately record, or record at all, the location of any water main, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. The plan is produced by Anglian Water Services Limited from Ordnance Survey © Crown Copyright, 100022432. This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

Foul Sewer
Surface Sewer
Combined Sewer
Final Effluent
Rising Main
Private Sewer
Decommissioned Sewer
(Colour denotes effluent type)



Outfall
(Colour denotes effluent type)
Inlet
(Colour denotes effluent type)
Manhole
(Colour denotes effluent type)
Sewage Treatment Works
Pumping Station



steve.nicoll@cdsconsulting.co.uk

Spalding Common



Site Name
Date
Comments:
Environment Agency CCN Number

Spalding Common
Oct-16
Determine FFL
CCN/2016/15021

INPUT DATA TO
BLUE CELLS
ONLY

Model Information

Model Name
Date of Model
Model Node

Welland CatchmentFM1 Model
2007
Welland 16724

OUTPUTS IN
YELLOW CELLS

Modelled Results

Re-order based on Flow	FLOW	LEVEL
2	60.92	4.01
5	77.45	4.28
10	82.77	4.37
25	87.35	4.43
50	90.12	4.47
75	90.59	4.48
100	90.87	4.49
200	91.07	4.50
100+20	90.47	4.67
1000	91.29	4.50
1000+20	91.27	4.67

Attenuation Factor

20.53 % FOR 1:100

20.03 % FOR 1:1000

Note: Higher attenuation factors mean results extrapolation will be over estimated

River Basin
Time Horizon
AEP Scenario

Anglian
Upto 2115
1000 AEP

MAKE SURE YOU COPY THE FORMULA VARIABLES AND R2 ON THE GRAPHS TAB !

EXTRAPOLATED WATER LEVEL OUTPUTS AT NODE

Upper End Scenario	4.67	mODN
Higher Central Scenario	4.67	mODN
Central Scenario	4.67	mODN

Examination of the model it is clear that the River Welland has plateaued around 4.50mODN for the present day and 4.67mODN for both the 1 in 100 and 1 in 1000year with Climate Change. Therefore use 4.67mODN for all Scenarios.

VERY SIMPLE BREACH CALCS - for use on very large flat fenland type floodplains only

Ground Level information

At breach	2.6	mODN
At site	2.5	mODN
Highest one used in calculation	2.6	mODN

Defence Type

Fluvial River - Earth Bank

Breach Width

40 metres

Distance to site

110 metres

	Central Scenario	Higher Central Scenario	Upper End Scenario	
Depth at site	0.60	0.60	0.60	metres
Velocity at site	1.31	1.31	1.31	m/s
Hazard value at Site	2.08	2.08	2.08	
Hazard rating at Site	Danger to All	Danger to All	Danger to All	
FLOOR LEVEL REQUIRED	3.20	3.20	3.20	mODN