NEWTOWN AVENUE
NEWTOWN GREEN
SUMMERDALE ROAD
SUMMERDALE AVENUE
LUNN ROAD
WHITE CROSS ROAD
LOW CUDWORTH GREEN
EDGELANDS RISE
CARRS LANE
El Sub Sta
Track
Low Cudworth Green
Frean House
The Stables
Sycamore Farm
Poplar House Farm
LB
55.5m
56.4m
57.9m
60.7m
58.5m
61.6m
52.1m
46.0m
7.32m deep
4.72m deep
2.17m deep

2.7m deep

1.9m deep

2.05m deep

1.9m deep

NR

MP 175

41.5m

35

39

49

37.8m

FB

Und

Small Bridge

Dike

Co Const Bdy

Boro Const & Wa

El Sub Sta

Ring Farm

FB

Small Bridge

438478 : 408042

Map Name

YorkshireWater

Yorksh

PO Bo

Halifax

Bradfo

Contac

K KHA

Contac

A P P E N D I X F

PROPOSED DEVELOPMENT LAYOUT

Rev	Description	Date	Drawn	Chk'd
D	Layout updated	28.08.15	SM	
C	Layout Updated	02.08.15	SM	
B	Layout amended following comments from the division	03.08.15	SJW	
A	Layout amended following comments from LPA.	30.07.15	SJW	

Urban Design
Barratt House
Forest Business Park
Bardon Hill
Leicestershire
LE67 1UB

01530 276276

Project

Cudworth

Land at Carrs Lane
and Newland Avenue

Drawing Title

Proposed Presentation Layout

Scale
1:500 @ A0

Date
06.07.15

Drawn By
SJW

Drawing Ref
YW-04-04 D

When printing to scale, please ensure that your printer settings are set to 'Print Actual Size'. The accompanying bar graphic should measure 50mm on the scale of the drawing. You can use a scale bar or grid to check the printed drawing.

Disclaimer

Images and site layout are intended for illustrative purposes only and should be treated as general guidance only.

Site layout including parking arrangements, (social/ affordable housing, community buildings, play areas and public open space) may change to reflect changes in the planning permission for the development. Please speak to your solicitor to whom full details of any planning consents including layout plans will be available.

Site layouts and landscaping are not intended to form part of any contract or warranty unless specifically incorporated in writing into the contract.

[The name of this development is a marketing name only and may not be the designated postal address, which may be determined by The Post Office].

Legend

- Proposed dwelling and house type code
- Denotes door position(s)
- Denotes handing of plot
- Boundary treatment A:
- Boundary treatment B:
- Boundary treatment C:
- Boundary treatment D:
- Boundary treatment E:
- Boundary treatment F:
- Soft landscaping within privately owned areas
- Soft landscaping areas within POS
- Proposed trees shown indicatively
- Existing landscaping retained

North

Scale Bar

0m 5m 10m 15m 20m 25m 30m 35m 40m 45m 50m 60m 70m 80m 90m 100m

A P P E N D I X G

INDICATIVE SURFACE WATER DRAINAGE CALCULATIONS

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Overflow (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
15 min Summer	100.435	0.435	37.5	0.0	37.5	780.2	O K
30 min Summer	100.571	0.571	37.5	0.0	37.5	1024.7	O K
60 min Summer	100.703	0.703	37.5	0.0	37.5	1261.8	O K
120 min Summer	100.813	0.813	37.5	0.0	37.5	1458.4	O K
180 min Summer	100.849	0.849	37.5	0.0	37.5	1524.1	O K
240 min Summer	100.853	0.853	37.5	0.0	37.5	1530.7	O K
360 min Summer	100.822	0.822	37.5	0.0	37.5	1475.1	O K
480 min Summer	100.793	0.793	37.5	0.0	37.5	1423.8	O K
600 min Summer	100.768	0.768	37.5	0.0	37.5	1379.4	O K
720 min Summer	100.746	0.746	37.5	0.0	37.5	1338.8	O K
960 min Summer	100.702	0.702	37.5	0.0	37.5	1259.4	O K
1440 min Summer	100.613	0.613	37.5	0.0	37.5	1100.3	O K
2160 min Summer	100.485	0.485	37.5	0.0	37.5	869.7	O K
2880 min Summer	100.368	0.368	37.5	0.0	37.5	660.8	O K
4320 min Summer	100.184	0.184	37.5	0.0	37.5	329.8	O K
5760 min Summer	100.067	0.067	37.5	0.0	37.5	120.7	O K
7200 min Summer	100.010	0.010	37.5	0.0	37.5	17.8	O K
8640 min Summer	100.000	0.000	34.2	0.0	34.2	0.0	O K
10080 min Summer	100.000	0.000	30.2	0.0	30.2	0.0	O K
15 min Winter	100.489	0.489	37.5	0.0	37.5	878.5	O K
30 min Winter	100.645	0.645	37.5	0.0	37.5	1158.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)
15 min Summer	116.878	0.0	778.1	0.0	23
30 min Summer	78.200	0.0	1051.0	0.0	37
60 min Summer	49.937	0.0	1379.9	0.0	66
120 min Summer	30.810	0.0	1708.4	0.0	126
180 min Summer	22.897	0.0	1906.4	0.0	186
240 min Summer	18.424	0.0	2045.8	0.0	244
360 min Summer	13.506	0.0	2251.6	0.0	342
480 min Summer	10.835	0.0	2409.2	0.0	396
600 min Summer	9.126	0.0	2536.7	0.0	458
720 min Summer	7.927	0.0	2644.2	0.0	524
960 min Summer	6.342	0.0	2820.2	0.0	660
1440 min Summer	4.622	0.0	3080.6	0.0	928
2160 min Summer	3.362	0.0	3389.4	0.0	1324
2880 min Summer	2.679	0.0	3598.9	0.0	1704
4320 min Summer	1.942	0.0	3901.4	0.0	2424
5760 min Summer	1.544	0.0	4159.2	0.0	3072
7200 min Summer	1.291	0.0	4350.5	0.0	3704
8640 min Summer	1.116	0.0	4517.9	0.0	0
10080 min Summer	0.987	0.0	4662.1	0.0	0
15 min Winter	116.878	0.0	874.5	0.0	22
30 min Winter	78.200	0.0	1180.8	0.0	37

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Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Overflow (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
60 min Winter	100.799	0.799	37.5	0.0	37.5	1434.9	O K
120 min Winter	100.932	0.932	37.5	0.0	37.5	1673.4	O K
180 min Winter	100.984	0.984	37.5	0.0	37.5	1767.0	O K
240 min Winter	101.000	1.000	37.5	0.0	37.5	1795.8	O K
360 min Winter	100.989	0.989	37.5	0.0	37.5	1774.8	O K
480 min Winter	100.952	0.952	37.5	0.0	37.5	1708.1	O K
600 min Winter	100.910	0.910	37.5	0.0	37.5	1633.7	O K
720 min Winter	100.880	0.880	37.5	0.0	37.5	1580.4	O K
960 min Winter	100.817	0.817	37.5	0.0	37.5	1465.7	O K
1440 min Winter	100.680	0.680	37.5	0.0	37.5	1220.3	O K
2160 min Winter	100.480	0.480	37.5	0.0	37.5	862.3	O K
2880 min Winter	100.306	0.306	37.5	0.0	37.5	548.4	O K
4320 min Winter	100.058	0.058	37.5	0.0	37.5	104.2	O K
5760 min Winter	100.000	0.000	34.2	0.0	34.2	0.0	O K
7200 min Winter	100.000	0.000	28.6	0.0	28.6	0.0	O K
8640 min Winter	100.000	0.000	24.7	0.0	24.7	0.0	O K
10080 min Winter	100.000	0.000	21.8	0.0	21.8	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Overflow Volume (m³)	Time-Peak (mins)
60 min Winter	49.937	0.0	1549.2	0.0	66
120 min Winter	30.810	0.0	1915.3	0.0	124
180 min Winter	22.897	0.0	2136.8	0.0	182
240 min Winter	18.424	0.0	2293.3	0.0	240
360 min Winter	13.506	0.0	2523.2	0.0	350
480 min Winter	10.835	0.0	2699.7	0.0	454
600 min Winter	9.126	0.0	2842.4	0.0	492
720 min Winter	7.927	0.0	2962.8	0.0	562
960 min Winter	6.342	0.0	3159.6	0.0	718
1440 min Winter	4.622	0.0	3451.6	0.0	1014
2160 min Winter	3.362	0.0	3797.8	0.0	1428
2880 min Winter	2.679	0.0	4033.2	0.0	1796
4320 min Winter	1.942	0.0	4376.4	0.0	2428
5760 min Winter	1.544	0.0	4668.8	0.0	0
7200 min Winter	1.291	0.0	4881.0	0.0	0
8640 min Winter	1.116	0.0	5060.1	0.0	0
10080 min Winter	0.987	0.0	5221.5	0.0	0

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.360	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 3.750

Time From:	(mins) To:	Area (ha)	Time From:	(mins) To:	Area (ha)
0	4	0.000	4	8	3.750

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