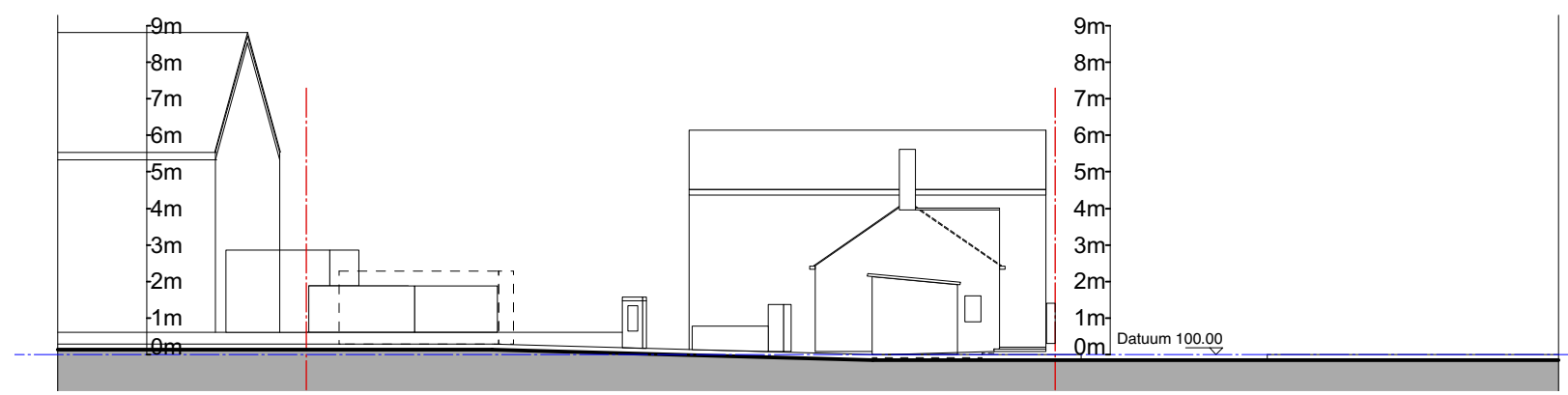
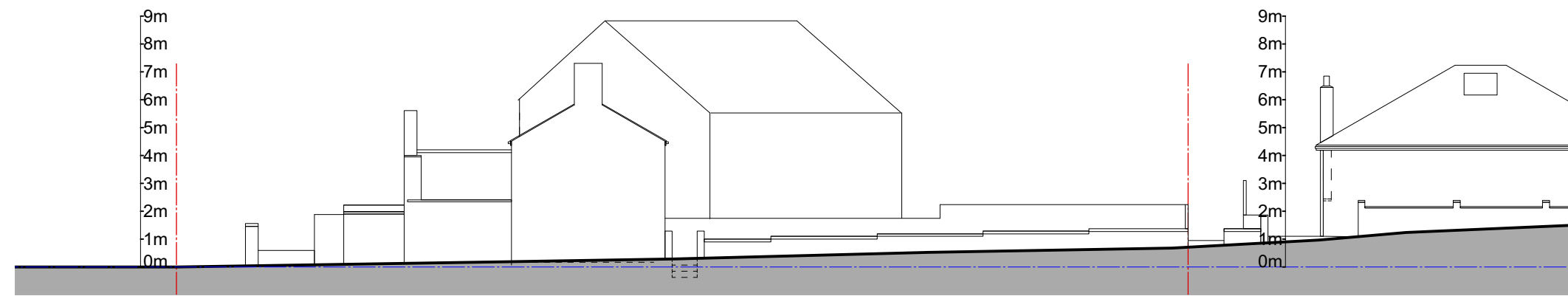




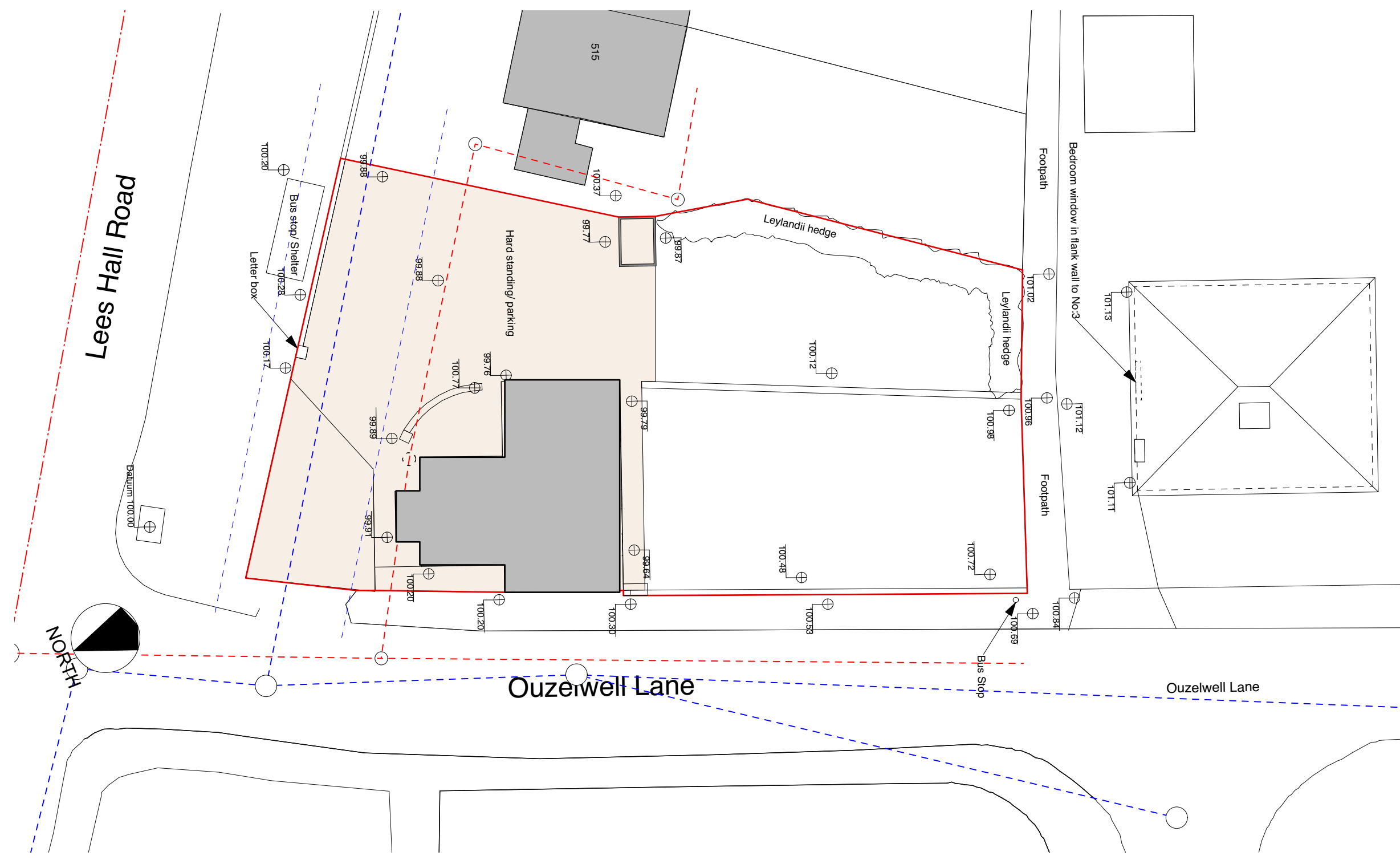
Lees Hall Road - Street Elevation As Existing
Scale 1:200
0m 5m 10m



Location Plan
Scale 1:1250
0m 50m



Ouzelwell Lane - Street Elevation As Existing
Scale 1:200
0m 5m 10m



Site Roof Plan As Existing
Scale 1:200
0m 5m 10m

EXISTING - Surface Water

Site Area = 605sqm
Impermeable Hard Landscaping Area = 240sqm
Building Area = 75sqm
Permeable Soft Landscaping Area = 290sqm

Total Surface Water Flow rate from EXISTING building to Sewer:
Roof Plan Area: 75sqm (30 degrees) $1.29 \times 75 = 96.75\text{sqm}$ = Effective roof area.
Max Flow rate = 96.75×0.02 (max rainfall intensity l/s) = 1.9 litres/sec
Paved Areas: 240sqm $\times 0.02$ (max rainfall intensity l/s) = 4.8 litres/sec
Total Max flow rate As Existing: 6.7 litres/sec

PROPOSED - Surface Water Strategy

Site Area = 605sqm
Impermeable Hard Landscaping Area = 170sqm
Building Area = 228sqm
Permeable Soft Landscaping Area = 207sqm

Total Surface Water Flow rate from PROPOSED building to Sewer:
Roof Plan Area: 228sqm (30 degrees) $1.29 \times 228 = 294\text{sqm}$ = Effective roof area.
Max Flow rate = 294×0.02 (max rainfall intensity l/s) = 5.88 litres/sec
Tarmac Areas: $170\text{sqm} \times 0.02$ (max rainfall intensity l/s) = 3.40 litres/sec
Total Max flow rate As Proposed: 9.28 litres/sec

Total Max flow rate As Existing: 6.7 litres/sec
Total Max flow rate As Proposed: 9.28 litres/sec

Attenuation tank to be designed and sized to reduce flow rate from site to 2 litres/sec, which is a net reduction of 60%.



Lees Hall Road - Street Elevation As Proposed
Scale 1:200
0m 5m 10m



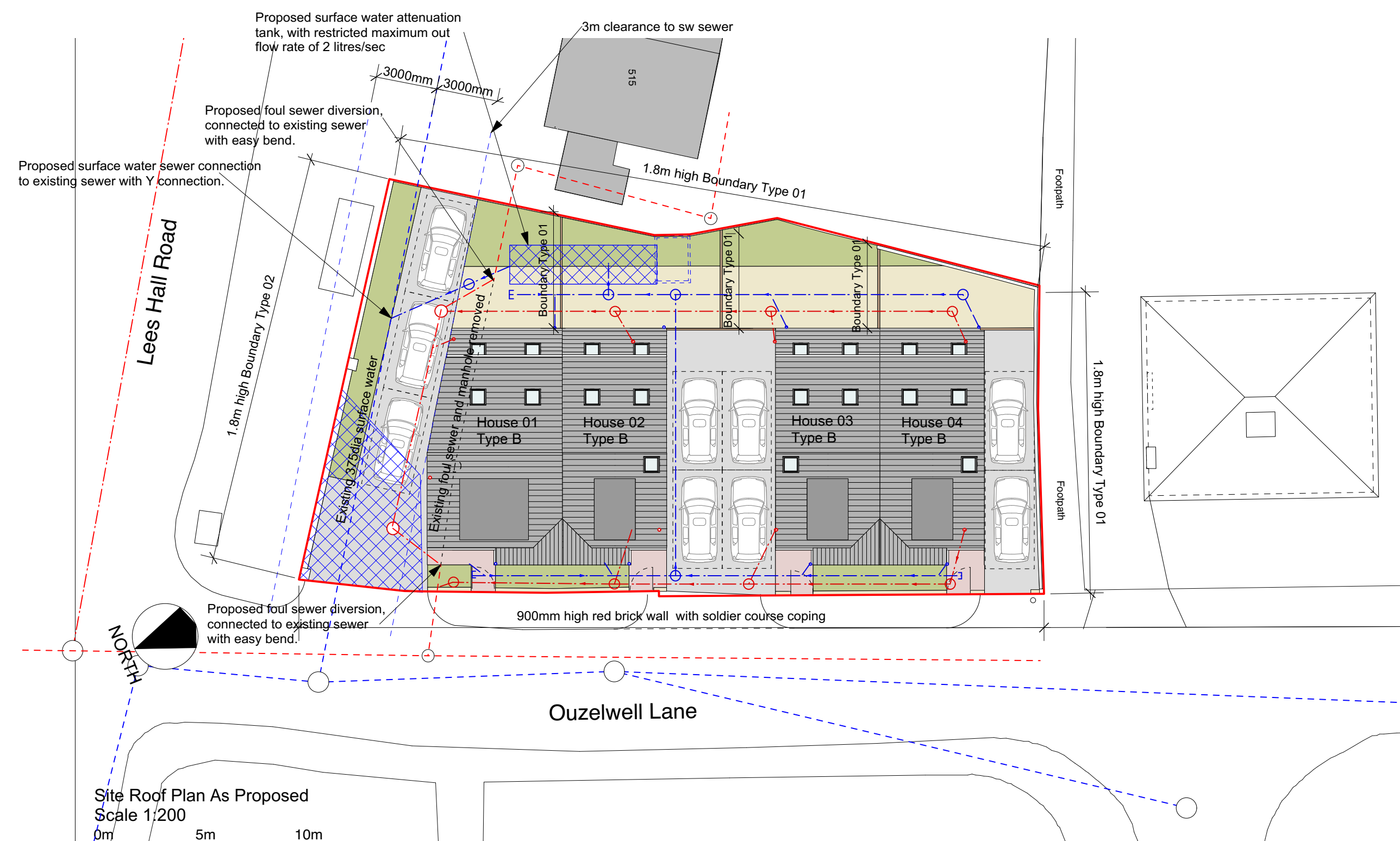
Ouzelwell Lane - Street Elevation As Proposed
Scale 1:200
0m 5m 10m

Surfaces

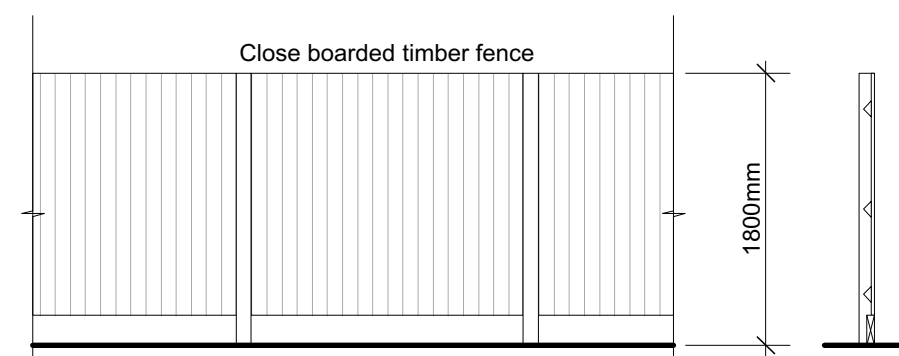
- Tarmac not permeable
- Permeable Red Resin/ Brick Paviers
- Permeable 600 x 600mm Paving
- Permeable Soft landscaping

Key to Drainage

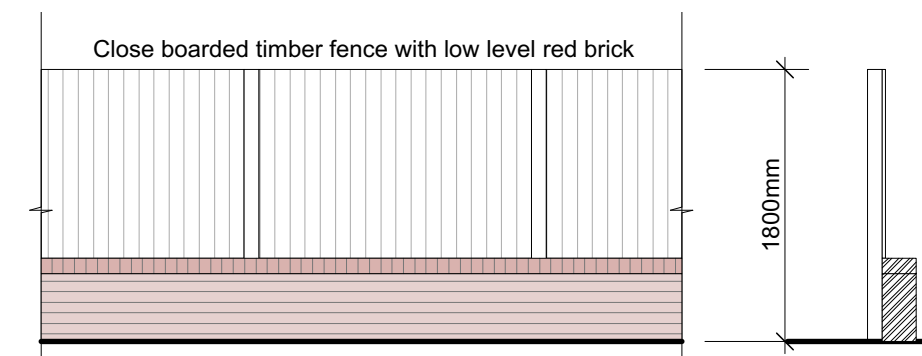
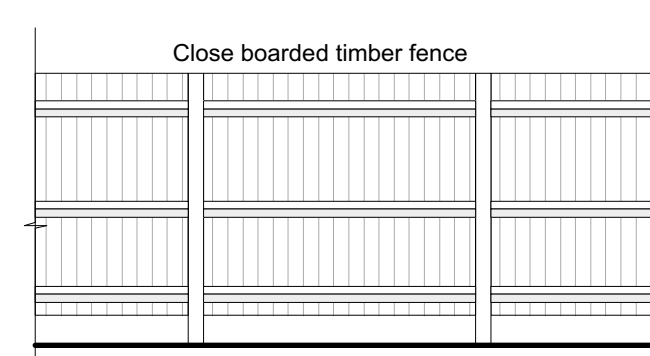
- 100mm diameter SVP
- New foul manhole
- 100mm diameter foul drain. Fall 1:60
- 80mm diameter RWP with gully and 125mm wide gutters
- New surface water manhole
- 100mm diameter surface water drain. Fall 1:60



Site Roof Plan As Proposed
Scale 1:200
0m 5m 10m



Boundary Fence Type 01 As Proposed
Scale 1:50
0m 1m 2m 3m 4m 5m



Boundary Fence Type 02 As Proposed
Scale 1:50
0m 1m 2m 3m 4m 5m

NOTES:
Any errors or omissions to be reported to Code L6 immediately.
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rev details date

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Mr Z Hyder
Drawing:
Plans As Existing and
Proposed
Date:
10/04/17
Scale:
Varies
Size:
A1

Drawing Number:
16-132 - 20