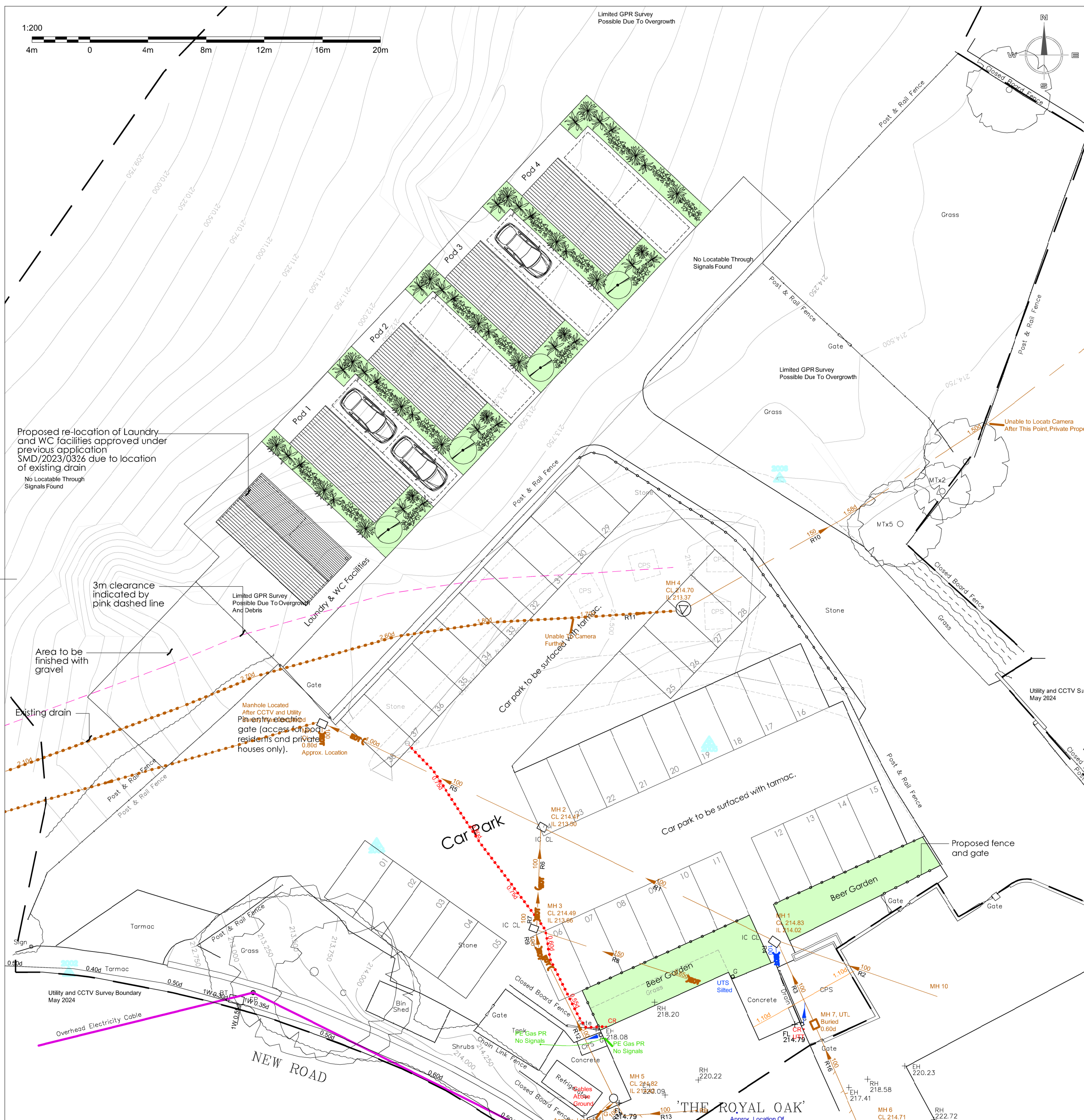


Rennard Consulting Limited		Page 3
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Ryecroft	Whole Site Attenuation	
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Innovyze	Source Control 2020.1.3	

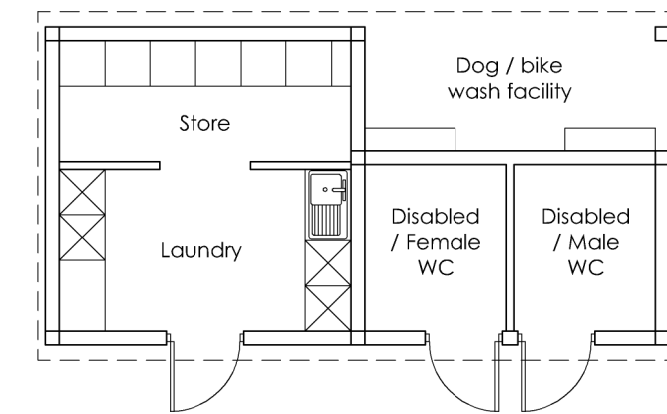
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Model Details Storage is Online Cover Level (m) 10.000 Tank or Pond Structure Invert Level (m) 9.000 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>125.0</td><td>0.500</td><td>125.0</td><td>0.501</td><td>0.0</td></tr></tbody></table> Hydro-Brake® Optimum Outflow Control <table><tbody><tr><td>Unit Reference</td><td>MD-SHE-0113-5000-0500-5000</td></tr><tr><td>Design Head (m)</td><td>0.500</td></tr><tr><td>Design Flow (l/s)</td><td>5.0</td></tr><tr><td>Flush-Flo™</td><td>Calculated</td></tr><tr><td>Objective</td><td>Minimise upstream storage</td></tr><tr><td>Application</td><td>Surface</td></tr><tr><td>Sump Available</td><td>Yes</td></tr><tr><td>Diameter (mm)</td><td>113</td></tr><tr><td>Invert Level (m)</td><td>9.000</td></tr><tr><td>Minimum Outlet Pipe Diameter (mm)</td><td>150</td></tr><tr><td>Suggested Manhole Diameter (mm)</td><td>1200</td></tr></tbody></table> <table><thead><tr><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th></tr></thead><tbody><tr><td>Design Point (Calculated)</td><td>0.500</td><td>5.0</td></tr><tr><td>Flush-Flo™</td><td>0.179</td><td>5.0</td></tr><tr><td>Kick-Flo®</td><td>0.372</td><td>4.4</td></tr><tr><td>Mean Flow over Head Range</td><td>-</td><td>4.1</td></tr></tbody></table> The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated <table><thead><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr></thead><tbody><tr><td>0.100</td><td>3.9</td><td>1.200</td><td>7.5</td><td>3.000</td><td>11.6</td><td>7.000</td><td>17.4</td></tr><tr><td>0.200</td><td>5.0</td><td>1.400</td><td>8.1</td><td>3.500</td><td>12.5</td><td>7.500</td><td>18.1</td></tr><tr><td>0.300</td><td>4.8</td><td>1.600</td><td>8.6</td><td>4.000</td><td>13.3</td><td>8.000</td><td>18.7</td></tr><tr><td>0.400</td><td>4.5</td><td>1.800</td><td>9.1</td><td>4.500</td><td>14.1</td><td>8.500</td><td>19.2</td></tr><tr><td>0.500</td><td>5.0</td><td>2.000</td><td>9.6</td><td>5.000</td><td>14.8</td><td>9.000</td><td>19.8</td></tr><tr><td>0.600</td><td>5.4</td><td>2.200</td><td>10.0</td><td>5.500</td><td>15.4</td><td>9.500</td><td>20.3</td></tr><tr><td>0.800</td><td>6.2</td><td>2.400</td><td>10.4</td><td>6.000</td><td>16.1</td><td></td><td></td></tr><tr><td>1.000</td><td>6.9</td><td>2.600</td><td>10.8</td><td>6.500</td><td>16.8</td><td></td><td></td></tr></tbody></table>					Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	125.0	0.500	125.0	0.501	0.0	Unit Reference	MD-SHE-0113-5000-0500-5000	Design Head (m)	0.500	Design Flow (l/s)	5.0	Flush-Flo™	Calculated	Objective	Minimise upstream storage	Application	Surface	Sump Available	Yes	Diameter (mm)	113	Invert Level (m)	9.000	Minimum Outlet Pipe Diameter (mm)	150	Suggested Manhole Diameter (mm)	1200	Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	0.500	5.0	Flush-Flo™	0.179	5.0	Kick-Flo®	0.372	4.4	Mean Flow over Head Range	-	4.1	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	3.9	1.200	7.5	3.000	11.6	7.000	17.4	0.200	5.0	1.400	8.1	3.500	12.5	7.500	18.1	0.300	4.8	1.600	8.6	4.000	13.3	8.000	18.7	0.400	4.5	1.800	9.1	4.500	14.1	8.500	19.2	0.500	5.0	2.000	9.6	5.000	14.8	9.000	19.8	0.600	5.4	2.200	10.0	5.500	15.4	9.500	20.3	0.800	6.2	2.400	10.4	6.000	16.1			1.000	6.9	2.600	10.8	6.500	16.8		
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©1982-2020 Innovyze																																																																																																																													

Appendix J – Proposed Roofing Plan

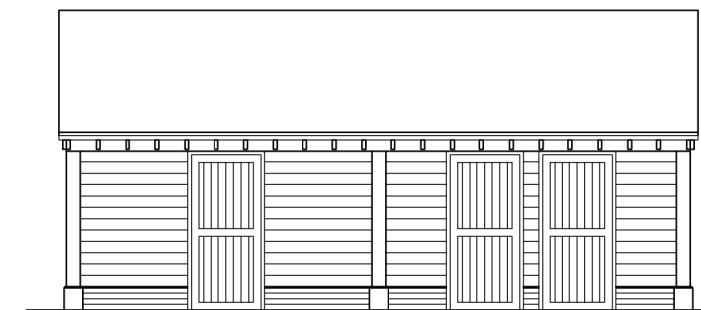


Proposed Site Plan 1:200

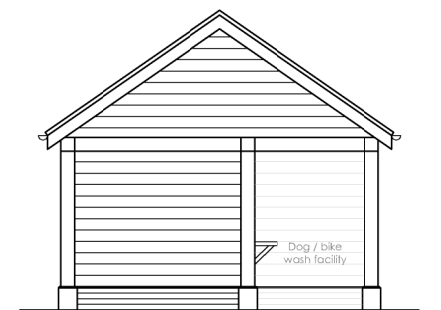
Laundry and WC Facilities Building



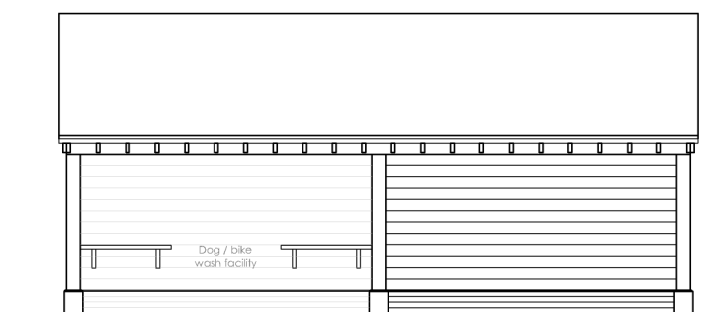
Proposed Floor Plan 1:100



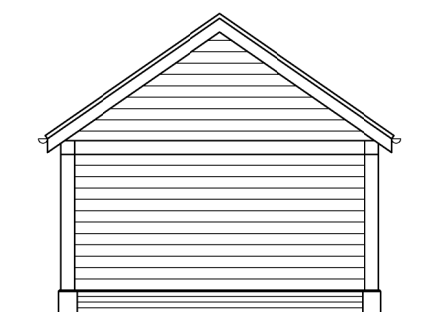
Proposed Front Elevation 1:100



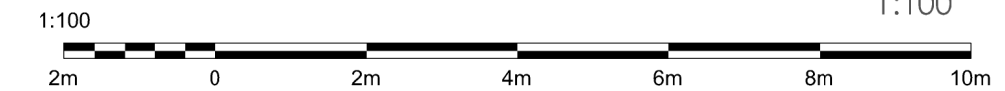
Proposed Side Elevation
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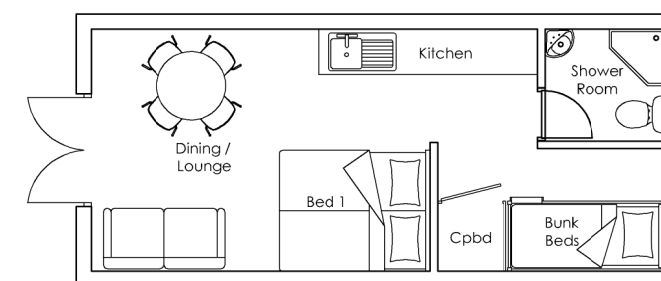
Proposed Rear Elevation 1:100



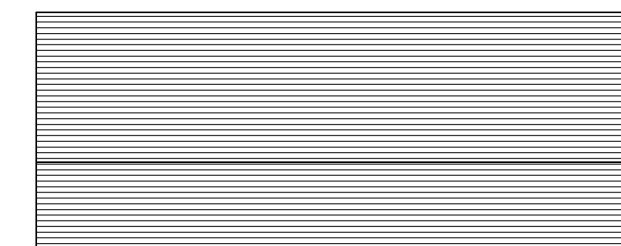
Proposed Side Elevation
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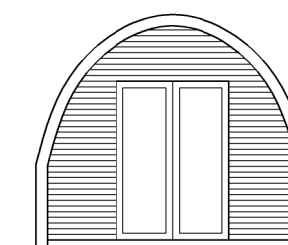
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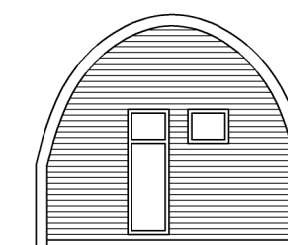
Proposed Floor Plan 1:100



Proposed Side Elevations 1:100



Proposed Front
Elevation 1:100



Proposed Rear
Elevation 1:100

Please note, proposed plans and elevations (as above) as per previously approved application SMD/2023/0326.

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Clients are advised to clarify dimensions with the Architect prior to setting out and not to scale from the drawing

Rev.	Drawn	Comments	Date
A	BVC	Amencment to site plan.	13.12.2024

Hewitt&CarrArchitects

A: DaisyBank House | 17-19 Leek Road | Cheadle | ST10 1JE
T: 01538 756888
E: enquiries@hcarchitects.co.uk
W: www.hcarchitects.co.uk

Client
Mr A Cunningham

Project
Proposed holiday lodges on land
adjacent The Royal Oak, Dilhorne

Title
Proposed Site Plan

Status
Planning

Date August 2024

Scale @A2 As Stated

Project No. Drawing No.

01287 AL(0)20

Drawn BVC

Checked

Rev A

File Ref: H:\

Appendix K – Microdrainage Calculations