NOTE I. - EXTENSIVE BIODIVERSE GREEN ROOF

1. Roof structure, waterproofing and protection to be specified by engineer. 2. Drainage layer - 25mm deep-water retaining drainage layer manufactured out of either recycled polypropylene or polystyrene. Profiles to permit excess water to drain in any direction beneath, with a minimum flow rate of 0.3l/m2/sec. Boards to be close butted to form a continuous drainage layer over the deck.

3. Filter Sheet – Specified filter fleece type 200, better suited for extensive green roofs, roll out filter sheet over the drainage layer. Laps to be minimum 100mm. Filter sheet to be taken up around all up stands, protrusions etc. to substrate surface level.

4. Main substrate: Extensive crushed brick substrate, consisting of 80% crushed clay brick and 20% organic matter (Locally sourced Green waste), to be installed at a depth of 150mm, but taking into account compaction rates associated with the substrate supplied by the contractor. Assuming a 15% compaction rate, laid depths will be 175mm (for a finished depth of 150mm). Estimated pH value of 8.4. Estimated weight of 130kg per sqm at 150mm deep when dry, 216kg per sqm at 150mm

5. Seed - The seed mix for the substrate will consist of all the wildflowers listed in the table below. These will be sourced from certified native seed stock such as from Emorsgate (or alternative approved by the green roof consultant) and be

Wildflower seed list for main substrate

Agrimony (Agrimonia eupatoria), Kidney Vetch (Anthyllis vulneraria),
Common Knapweed (Centaurea nigra), Wild basil (Clinopodium vulgare), Viper's-bugloss (Echium vulgare), Lady's Bedstraw (Galium verum), Perforate St John's-wort (Hypericum perforatum), Field Scabious (Knautia arvensis), Autumn Hawkbit (Leontodon autumnalis), Rough Hawkbit (Leontodon hispidus), Oxeye Daisy (Leucanthemum vulgare), Common Toadflax (Linaria vulgaris), Bird's-foot-trefoil (Lotus corniculatus), Musk-mallow (Malva moschata), Wild Marjoram (Origanum vulgare), Hoary Plantain (Plantago media), Cowslip (Primula veris), Selfheal (Prunella vulgaris), Meadow Buttercup (Ranunculus acris), Bulbous Buttercup (Ranunculus bulbosus), Wild Mignonette (Reseda lutea), Salad Burnet (Poterium sanguisorba), Bladder Campion (Silene vulgaris)

Plug-planted sedum list for main substrate

White stonecrop (Sedum album), Biting stonecrop (Sedum acre), White stonecrop (Sedum anglicum)

Plug-planted wildflower list for main substrate
Kidney Vetch (Anthyllis vulneraria), Oxeye Daisy (Leucanthemum vulgare), Bird's-foot-trefoil (Lotus corniculatus), Bulbous Buttercup (Ranunculus bulbosus),

Salad Burnet (Sanguisorba minor), Autumn Hawkbit (Leontodon autumnalis), Viper's-bugloss (Echium vulgare), Rough Hawkbit (Leontodon hispidus), Common Toadflax (Linaria vulgaris), Musk-mallow (Malva moschata), Hoary Plantain (Plantago media), Selfheal (Prunella vulgaris), Meadow Buttercup (Ranunculus acris), Wild Mignonette (Reseda lutea), Bladder Campion (Silene vulgaris), Hare's Foot Clover (Trifolium arvense)

NOTE II. - SEDUM MINIMUM MAINTENANCE GREEN ROOF

Bauder XF301 28mm deep Sedum blanket or Similar
 Bauder SDF 20mm Matt or Similar

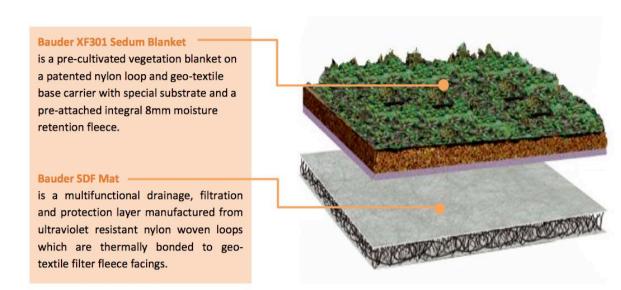
3. Bauder root resistant capping sheet or Similar

4. Bauder underlayer or Similar 5. Bauder Insulation or Similar

Bauder Specification/Drawings below:

6. Bauder Vapour Barrier or Similar

7. Concrete Slab to Engineers and Architect details



Weight Loading Based on 1-2° pitch

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	Product	Thickness (mm)	Saturated Weight (Kg/m²)
	Bauder XF301 Sedum Blanket	28.0	44.0
	Bauder SDF Mat	20.0	0.2
	Totals	48.0	44.2

Enviromat - Species White Stone Crop (Sedum album), Stonecrop-Russian (Sedum kamtschaticum), Widow's Cross (Sedum pulchellum), Sedum Reflexum (Sedum reflexum), Caucasian Stonecrop (Sedum spurium), Tasteless Stonecrop (Sedum sexangulare), Golden Stonecrop (Sedum acre)

Sedum - Plugs
White Stone Crop (Sedum album), Biting Stonecrop (Sedum acre), Corsican stonecrop (Sedum dasyphyllum), Spanish Stonecrop (Sedum hispanicum), Stone orpine (Sedum rupestre)

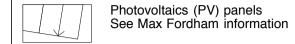
Bauder Bituminous Membrane Green Roof System - Standard Detail XFL1-1/3 Extensive Sedum blanket system / Bauder Xero Flor XF301 combination Sedum blanket Issue Date Checked 01 MARCH 2013 BAUDER LTD NOT TO SCALE TECHNICAL NOTES BAUDER VAPOUR BARRIE STRUCTURAL DECKING

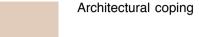
A TYPICAL SECTION DETAIL / XF301 SEDUM VEGETATION BLANKET OVER

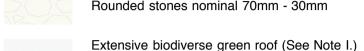
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- 3. All dimensions in millimetres unless otherwise shown. 4. All levels in metres above Ordinance Datum (mAOD) unless otherwise shown.
- 5. All dimensions to be checked on site and any discrepancies reported to CA before
- pricing / work starts.

 6. Any ambiguities or discrepancies within this drawing or between this drawing and any other information given elsewhere must be reported to Camlins and the CA for
- clarification before pricing / work proceeds. All drawings to be read in conjunction with other Camlins drawings and specification and with relevant Engineer's and Architect's work packages as appropriate.
- 8. All works carried out in accordance with the latest British Standards and appropriate codes of practice as a minimum.

KEY







River Pebble / Duck Stone Surface As Ground Cover Rounded stones nominal 70mm - 30mm

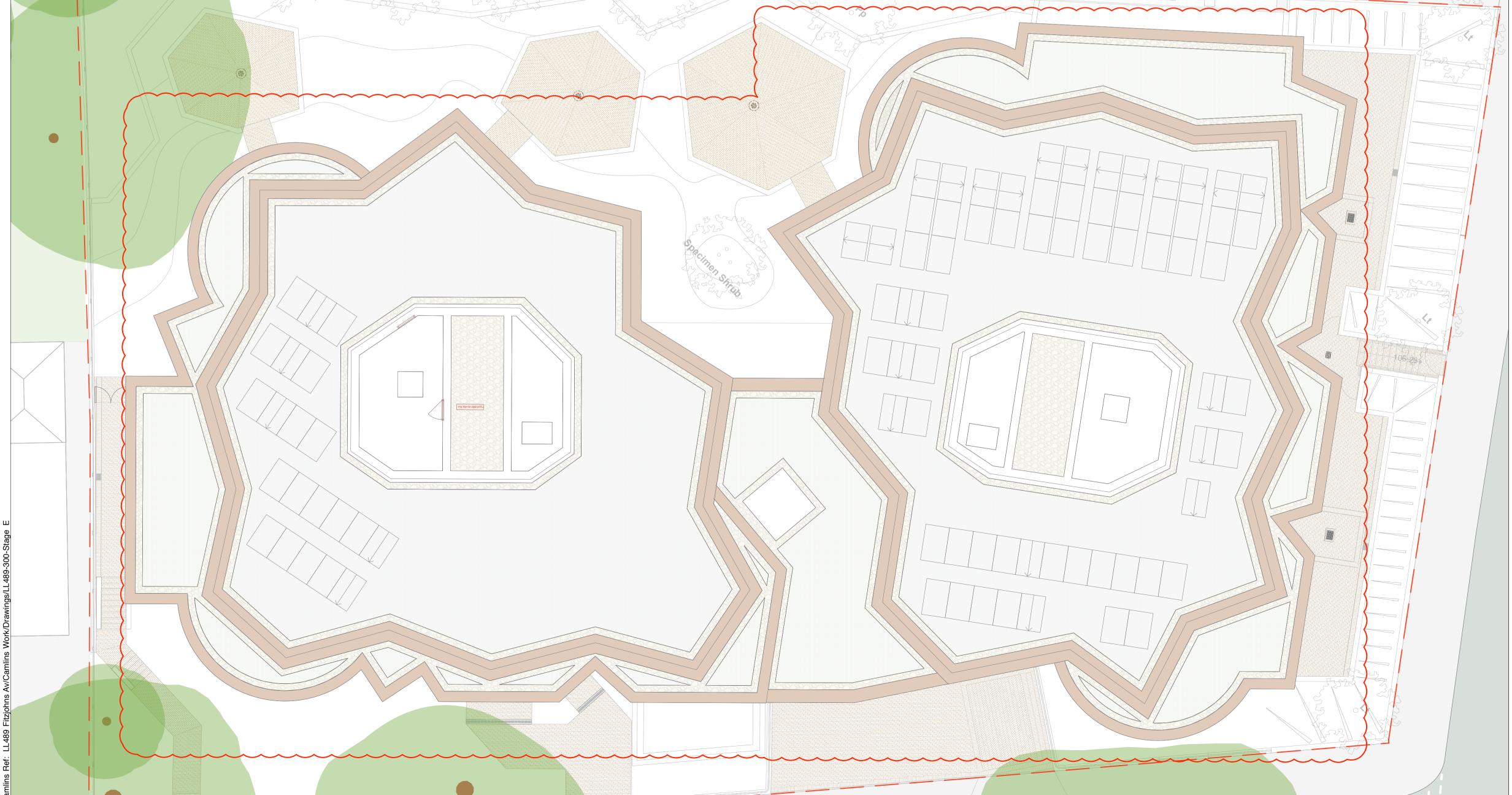


Sedum minimum maintenance green roof (See Note II. for suggested specification)



Aluminium Edge. Kinley AluExcel or equivelant approved.

All green roofs include ManSafe System for maintenance.



Checked by: Description: Revised by: 28/01/2016 Updated roof plan layout







23.10.2015

STAGE E FITZJOHNS AVENUE

PEGASUS LIFE

General Arrangement - Roof Plan

1:100@A1 LL489-300-0002



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