

PROPOSED DESIGN

Grassland Impact Study

In addition to adding value to the Nature Centre beyond the footprint of the new multipurpose classroom, the proposed design addresses the site's unique grassland habitat. The City of Calgary, various stakeholders and long standing volunteers have stressed the importance and precious nature of the restored grasslands to the south and southwest of the Nature Centre.

The location for the proposed expansion minimizes the impact of the building footprint on the surrounding grassland. By siting the expansion on the existing disturbed area and renovating under-utilized interior space in the existing centre, the expansion sits on a small area of restored grassland.

To address the minimal impact to grassland, the design includes additional restored grassland by reducing the asphalt pathway on the southwest edge and recapturing space in the existing courtyard.

In fact, the proposed restored grassland area gives back 77m² more rehabilitated grassland habitat than the existing condition.

LEGEND

Existing Extent of Disturbed Area

Impacted Grassland Area 31 m²

Proposed Restored Grassland Area 108 m²

53 m² (Rehabilitated Courtyard)
+ 55 m² (Reduced Asphalt Pathway)
= 108 m²
- 31 m² (Impacted Grassland Area)
= 77 m² New Restored Grassland Area

Existing Sanctuary (to remain as existing)

The figure is an aerial photograph of a site with a proposed building expansion. The building footprint is shown in grey. The surrounding area is color-coded to show the impact on grassland. A red dashed line outlines the 'EXISTING EXTENT OF DISTURBED AREA'. An orange shaded area represents the 'IMPACTED GRASSLAND AREA 31 m²'. A green shaded area represents the 'PROPOSED RESTORED GRASSLAND AREA 108 m²'. The map also shows a 'PROPOSED RESTORED GRASSLAND COURTYARD' and 'PROPOSED RESTORED GRASSLAND' areas. A legend in the bottom left corner provides a detailed breakdown of the area calculations.

Area	Value
Rehabilitated Courtyard	53 m ²
Reduced Asphalt Pathway	55 m ²
Total Proposed Restored Grassland	108 m²
Impacted Grassland Area	31 m ²
New Restored Grassland Area	77 m²

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Nature Centre Building Expansion
Schematic Design Report

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