702 Project Proposed by

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8/14/00 Environmental Science Program Architecture Program

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Provisional Project Title:

Design Principles and Practice above the Tree line: Linking Alpine Club of Canada Hostels

Client:

Alpine Club of Canada	Website: www.AlpineClubOfCanada.ca
Primary Contact:	John Harrop, Vice-President Facilities.
	1602-7A Street NW, Calgary, Alberta T2M 3K1
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Area of Interest:

The Alpine Club of Canada is looking for ways to consolidate their image through the huts that they have built and have maintained since 1906, in the Canadian Rockies. The old huts were built at the turn of the last century and numerous others have been added ever since. The most recent examples differ greatly from the originals because there has never been a clear plan or design intention to unify the huts. Current Alpine Club personnel see the opportunity for a unifying design through renovations and additions to existing huts. Design ideas will evolve out of solutions that will be found to waste management problems, rodent/mould control and occupancy side effects. The two huts that this project will focus on are the Stanley Mitchell Hut in Yoho National Park and the Abbot Pass Hut straddling the Continental Divide on Mount Victoria.

The huts represent historic and unique built form with an opportunity to create a legacy for future Parks users.

Nature of the Project:

- Research on implications of historical building typologies.
- Design Drawings for
 - Abbot Pass terrace and outhouse
 - Stanley Mitchell cladding and outhouse
- Written Recommendations for waste management issues
- Signage and small bathroom accessories prototype(s). (Dependent on inclusion of a student from Industrial Design)
- Gallery Poster (Two 11" x 17" sheets demonstrating results)

Issues we intend to consider include:

- Design Typology
- Waste Management @ 10,000 feet
- Building Science issues: Exploit *shock heating* occupancy patterns. Examine potential uses of occupancy heat/moisture generation.

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• Industrial Design issues in countertop/bathroom accessories and appliances and signage.

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• Human Health issues relative to rodent/bird interactions with hut and potential for mould growth.

This list represents a selection of available issues and will be refined in consultation with our client, once all team members have been selected and we are able to consult further on the nature of the project.

Considerations Specifically requested by Alpine Club of Canada include:

- Creation of a unified image that can be applied to all alpine huts.
- Meet and exceed code requirements imposed by Parks Canada relative to aesthetics and structure (Historic Site requirements in place with Parks Canada will guide this component of the project.)
- Use of indigenous materials
- Economical and responsible use of public funds

Meeting EVDS 702 requirements:

This project will address human interventions in the landscape of Western Canada taking into account sustainable design principles and management of an exquisitely sensitive environmental area.

The estimate of financial resources required is \$733.00. We would anticipate requesting half from the client and half from the Faculty of Environmental Design. Full budget will be provided in the project brief.

References

Alpine Club of Canada. 1991. Water Energy and Waste Management in Alpine SheltersSymposium. Notes from a Canadian Conference. October 27-28, 1991, Lake Louise,Alberta. Canmore, AB: Alpine Club of Canada.

Alpine Club of Canada. 2000. Website for Club/Alpine Huts.

http://www.alpineclubofcanada.ca/facility/index.html. Accessed 12/07/2000.

Jaud, N., M. Nerbas, B. MacCallum, W. MacLeod, C. Smith, K. Walsh. 1986. Relocation and Design of The Bow Hut and the Elizabeth Parker Shelter. 701-12 Project submitted to the Alpine Club of Canada Huts Committee. Calgary: The University of Calgary, Faculty of Environmental Design.

Wates, C.G. 1940. The Stanley Mitchell Hut. The Canadian Alpine Journal. Vol. 27 (1). p. 73-84.