

Whistlers Campground Registration Building

Acoustic Installation

Scope of Work

1.0 Description:

To supply and install acoustic panels to reduce the high rates of echo in the Registration Building Guest Hall in Jasper National Park. The installation is to include 14 panels suspended from the roof of the room and 8 panels mounted on the walls of the room as shown on the attached drawings.

2.0 Background:

Rm 107 – The Guest Hall in the Registration Building has been noted as having extremely high sound levels due to echo during operation of the room for registration of campers. A review was done and a design done to adjust the acoustic properties of the space to drastically limit the resulting echo and diminish the acoustic issues in the space to acceptable levels. The attached drawings reflect the design done to reduce the acoustic issues in this space.

3.0 Scope of Work:

Supply and install the acoustic panels in Rm 107 – Guest Hall in the Registration Building for the Whistlers Campground in Jasper National Park. Scope includes but not limited to the following:

- 3.1** Design and install brackets to the ceiling of the space from which the suspended acoustic panels will be mounted.
- 3.2** Supply and install 14 suspended Armstrong Woodworks 72" x 36" Hill and Valley Panels or equivalent as per the drawing package, in the locations shown on the drawings. Brackets to be used to suspend these panels to be covered in Clause 3.1.
- 3.3** Design, fabrication and installation of 8 acoustic panels with custom graphics on the walls of the Guest Hall in locations as shown on the drawings. Size of the panels are shown on the drawings.

4.0 Constraints:

The following constraints and conditions must be met during the execution of the work:

4.1 Acoustic Panel Bracket:

- 4.1.1** The contractor will be required to engage a structural engineer to design and sign off on the brackets to be used to attach the suspended panels to the ceiling of the Registration hall. A typical section for the bracket is included in the drawing package but the design of the bracket, materials used and the loading on the bracket is to be included in the design that is signed off by a professional structural engineer who is registered in the Province of Alberta. Costs for the engagement of a structural engineer to do the work is considered incidental to the contract and will not be paid for separately.
- 4.1.2** The structural engineer will confirm that the roof structure is capable of supporting the load imposed by the suspended panels.
- 4.1.3** The bracket is to be mounted through the ceiling panels directly into the underside of the rafters in the roofing system. The structural engineer is to confirm that the anchoring into the underside of the rafters is feasible and will design the connection to withstand the imposed loads.
- 4.1.4** While installing the brackets all care and attention is to be given to minimize any damage or disturbance to the ceiling structure and finishes other than what is explicitly required to install the brackets for the suspended panels. The Contractor is to repair and make good any resulting damage to the existing roof and/or mechanical/electrical components. The resultant repairs will be considered incidental to the contract and will not be paid for separately.

4.2 Wall Mounted Acoustic Panels:

- 4.2.1** A graphic image is to be included on the wall mounted panels as shown on the drawings. PCA will supply a digital file in the format required by the contractor that can be used to construct the panels. The panels must be constructed in such a way so that the graphic does not diminish the acoustic properties of the panel. All work associated with incorporating the graphic onto the panels as shown on the drawings is considered incidental to the contract and will not be paid for separately.

4.3 Schedule:

- 4.3.1** The work is to be completed May 19, 2022.

- 4.3.2** Provide a copy of a schedule in Gantt format showing the phases of work and milestones to the Departmental Representative within two weeks of award of the contract.

4.4 Access to the Registration Building:

- 4.4.1** Unrestricted access to the Registration Building is from March 15th to Apr 25th 2022. Past Apr 25, the building will begin operations and access to the Guest Hall may be restricted to defined areas to accommodate Parks staff who will be in the building and preparing for opening of the campground.
- 4.4.2** After Apr 25th, access may be restricted to evening hours so construction work does not interfere with the operations conducted in the building.
- 4.4.3** Access to the active areas will have to be maintained once the building becomes operational. Not all of the Guest Hall will be required for operations prior to May 4th and the work areas within the space can be phased to accommodate both the installation requirements of the panels versus the operational requirements for the space. Engage the Departmental Representative as early as possible prior to actual installation works begin in the Guest Hall to best determine the phasing/scheduling of the work.
- 4.4.4** The Registration Desks that exist in the Guest Hall are a custom installation in this space and are fixed in place to the floor. The contractor will have to protect and maintain the registration desks as is during the entire period of construction. Any damage to the registration desks that are a result of the installation of the acoustic panels will be the responsibility of the Contractor to repair at their cost.

4.5 Health and Safety

- 4.5.1** The Contractor will be responsible to conduct the work according to required federal and provincial O&HS regulations for the duration of the construction. Ensure all Provincial OH&S codes and guidelines are adhered as well as the Canada Labour Code Part 2.
- 4.5.2** Provide a Health and Safety Plan to the Departmental Representative that includes an emergency response plan in the event of an emergency on site. Include in the Plan emergency contact numbers for your safety officer and the numbers to call emergency services as required.

4.6 Waste and Recycling

- 4.6.1** Where possible, recycle as much as possible any construction materials that is practical. All recycled materials to be hauled and disposed of outside the park at recognized facilities for recycling.

- 4.6.2** All waste materials generated by the project must be collected and disposed of outside the park. No disposal of waste permitted inside the park.

4.7 Permits

- 4.7.1** All contractors working in Jasper National Park must have a business license to work in the park. The license can be obtained through the Park Administration office located in the Jasper Train Station.
- 4.7.2** Overweight restrictions apply to Hwy 93N when delivering equipment or delivering materials to the Whistlers Campground. The contractor is responsible to ensure all vehicles traveling on Hwy 93N to the Whistlers Campground are within the weight restrictions posted for that highway.

4.8 Submissions

- 4.8.1** As per clause 4.3.2, submit a schedule showing the phases of the work and milestones for the project.
- 4.8.2** Within two weeks of award, submit a safety plan as described in clause 4.5.2
- 4.8.3** Submit shop drawings and product data with sufficient lead time to allow the Park 5 days to review and respond before fabrication/installation of any elements required to complete the work is started.
- 4.8.4** All submissions to be made electronically to the Departmental Representative in the following formats:
 - 4.8.4.1** Gantt Chart Schedule – Microsoft Project or .PDF
 - 4.8.4.2** Shop drawings, product data - .PDF
 - 4.8.4.3** Safety Plan and any other submission - .PDF