

Part 1 General

1 SCOPE OF WORK

1.1 Scope of Work for this Contract comprises:

- 1.1.1 Construction at Johnston Canyon trailhead consisting of dry-stacked Rundlestone trail borders, Rundlestone boulder seating, mortar-jointed Rundlestone flagstone patio around boulder seating and historic signpost, concrete stairs and drystack Rundlestone retaining wall adjacent to historic signpost, removal of existing asphalt, trail tread grading with trail-mix gravel (and optional asphalt millings), new post and cable fencing to match existing in area and to tie into existing bridge and fencing, supply and installation of concrete slab for mounting of a trailhead information kiosk supplied by Parks Canada, as indicated in design drawings and attached specifications.
- 1.1.2 Restoration plantings and hydro-seeding as prescribed for restoration of the trailhead area, including warranty period maintenance of plantings, as indicated in the design drawings and attached specifications.
- 1.1.3 The contractor will supply all materials, equipment and labour required for the installation of above, with the following exceptions that will be supplied by Parks Canada:
  - 1.1.3.1 Required quantities of flagstone (estimated requirement approximately 50 m<sup>2</sup>) for the project will be supplied by Parks Canada, of the types and up to the amounts listed in the table below. **(Any/all additional stone required for the project to be supplied by the Contractor.):**

Type	Size	Tons	Square Feet / Face Feet	Square Meters
3" flagstone	3" thick	15	750	69.7
<b>TOTAL PAVING STONE</b>				<b>69.7</b>

- 1.1.3.2 Trailhead information kiosk and steel mounting brackets will be supplied by Parks Canada. Photo showing kiosk installed at another location:



- 1.1.3.3 Benches labelled "Mountain Park Benches" on the drawings are to be existing concrete and

timber benches salvaged from the project area. (Benches labeled "Local Limestone Bench" are to be monolithic limestone boulder benches supplied by the Contractor.)

- 1.1.4 All above Work is further identified collectively as Work.
- 1.1.5 The construction components of this project will be completed during spring/summer 2021. The restoration planting components of the project will be completed during 2021 and maintained through the warranty period ending one year after project completion.
- 1.1.6 **Important note:** the area within the Johnston Canyon Lodge and Bungalows resort leasehold, marked with a grey hatched area on the drawings, is NOT INCLUDED in the scope of this project. Any proposed improvements depicted within the leasehold (grey hatched area) on the drawings are the responsibility of the leaseholder, and the pricing for any such improvements should not be included in bids for this Parks Canada project.

## 1.2 OWNER OCCUPANCY

- 1.2.1 Owner will occupy the Johnston Canyon trailhead area during entire construction period for execution of normal operations. The Johnston Canyon Trail will be open to the public during construction. The Contractor will provide safe access to the trail during the project. Any required detour fencing or other structures will be removed after the work is completed, and any ground disturbance restored to pre-project condition.

## 1.3 WORK SEQUENCE

- 1.3.1 Construct Work in stages to accommodate Owner's continued use of trail during construction and public access.
- 1.3.2 Co-ordinate Progress Schedule and co-ordinate with Departmental Representative during construction.
- 1.3.3 Maintain fire access/control throughout the duration of the Work.
- 1.3.4 Within seven (7) days after award of contract, submit detailed Project Schedule which includes the following milestones and activity types:
  - 1.3.4.1 Submittal of Shop Drawings of the concrete stairs, information kiosk slab and mounting, stone walls, stone borders, and post and cable fencing, for PCA approval and to satisfy requirements for issuance of building permit. Any drawings that require engineer stamping and signature according to Alberta Building Code must be appropriately stamped and signed off.
  - 1.3.4.2 Submittal of site use plan showing fencing, laydown area, materials and equipment staging locations, for PCA approval. 20 m x 3 m area along eastern or southern edge of lodge parking lot will be available as a laydown area.
  - 1.3.4.3 Environmental Protection Plan (EPP), review and implementation.
  - 1.3.4.4 Health and Safety Plan, review and implementation.
  - 1.3.4.5 Traffic Accommodation strategy, review and implementation.
  - 1.3.4.6 Quality Management Plan.
  - 1.3.4.7 Final Inspection.
  - 1.3.4.8 Submittal of signed "as-built" record drawings and concrete quality test results to satisfy requirements for occupancy permit.
  - 1.3.4.9 Completion.

## 1.4 CONTRACTOR USE OF PREMISES

The Contractor shall limit use of premises for Work to allow:

- 1.4.1 Owner Occupancy.
- 1.4.2 Public usage of the trail and parking lots (outside the laydown area) throughout the duration of the Work.
- 1.4.3 Coordinate use of premises under direction of the Departmental Representative.
- 1.4.4 The Contractor shall obtain a business license from Parks Canada for Work in the national park.
- 1.4.5 The Contractor shall obtain a vehicle work pass from Parks Canada for all business and private vehicles it intends to use on site. All contractor vehicles on site should display the work pass.
- 1.4.6 The Contractor shall manage all construction waste and dispose of said waste at appropriate facilities outside of Banff National Park.
- 1.4.7 The Contractor shall ensure that any food waste, litter or other animal attractants are deposited into wildlife-proof garbage or recycling bins. Under no circumstances shall food waste, litter or other animal attractants be stored in open bins or left unattended.
- 1.4.8 The Contractor's staff shall not camp in any Banff National Park campground during the project – commercial or private accommodations must be used.
- 1.4.9 Remove or alter existing work to prevent injury or damage to portions of existing work which remain.
- 1.4.10 Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as directed by Departmental Representative.
- 1.4.11 At completion of operations, condition of existing work to be equal to or better than that which existed prior to construction, to the satisfaction of the Departmental Representative.

#### 1.5 EXISTING SERVICES

- 1.5.1 The Contractor shall perform utility locates and provide copies to Departmental Representative prior to undertaking any Work.
- 1.5.2 The Contractor shall obtain permission from Departmental Representative and utility companies prior to intended interruption of services. No requirement for interruption of services is anticipated.
- 1.5.3 Provide alternative access routes during work for pedestrian use of the trail and vehicular traffic to the lower and upper parking areas.
- 1.5.4 Provide temporary signage to indicate location of pedestrian trail detours around the work area.
- 1.5.5 Where unknown services are encountered, immediately advise Department Representative and confirm findings in writing.

#### 1.6 DOCUMENTS REQUIRED

Maintain at job site, one copy of each document as follows:

- 1.6.1 Contract Drawings, marked up with as-built information.
- 1.6.2 Specifications.
- 1.6.3 Addenda.
- 1.6.4 Reviewed Shop Drawings.
- 1.6.5 List of Outstanding Shop Drawings.
- 1.6.6 Change Orders.
- 1.6.7 Other Modifications to Contract.
- 1.6.8 Field Test Reports.
- 1.6.9 Copy of Approved Work Schedule.
- 1.6.10 Environmental Protection Plan.
- 1.6.11 Traffic Accommodation Strategy.

- 1.6.12 Quality Management Plan.
- 1.6.13 Health and Safety Plan and Other Safety Related Documents.
- 1.6.14 Other documents as specified.
- 1.6.15 Restricted Activity Permits.

#### 1.7 HOURS OF WORK

- 1.7.1 The Work must be performed between hours noted below:

*March: 8:30 am - 6:00 pm*

*April: 7:30 am - 8:00 pm*

*May: 7:30 am - 8:30 pm*

*June: 7:30 am - 9:00 pm*

*July: 7:30 am - 9:00 pm*

*August: 7:30 am - 8:00 pm*

*September: 8:00 am - 7:00 pm*

*October: 9:00 am - 5:30 pm*

- 1.7.2 Road access to the Johnston Canyon area may be restricted at certain times for park management purposes. Road access for contractor from Castle Junction will be permitted during such times, by arrangement with the Departmental Representative. Road access to the east end of the Bow Valley Parkway is not permitted during the seasonal (March 1 to June 25) 8pm-8am closure, and may not be permitted at other times.

#### 1.8 SURVEY RESPONSIBILITIES

- 1.8.1 The Contractor is responsible for all surveying required to construct the Work to the lines and grades shown on the Drawings. Survey Work must be tied to the nearest Alberta Survey Control Monument or temporary benchmarks established by the Departmental Representative. Elevations shown on the Drawings are geodetic.
- 1.8.2 The Contractor must conduct a survey circuit of the project monuments and submit a report to the Department Representative at least seven (7) days prior to installation of any works.
- 1.8.3 The Contractor will complete as-built survey of all Works for Record Drawings and provide the results to the Departmental Representative prior to Substantial Performance of the Work.

#### 1.9 EROSION AND SEDIMENT CONTROL (ESC) PLAN

- 1.9.1 The Contractor must prepare an ESC plan for the project to be included in the Environmental Protection Plan. The plan must detail temporary and permanent environmental control measures that the Contractor will undertake to comply with all applicable legislation, regulations and approvals during the course of their construction. The plan should address the following items:
  - 1.9.1.1 Pre-Construction Actions:
    - 1.9.1.1.1 Prepare and submit for review by Departmental Representative the "Environmental Protection Plan"
  - 1.9.1.2 Construction Considerations:
    - 1.9.1.2.1 Clearing and excavation must start only after installing the sediment and runoff measures as per the plan which has been reviewed and accepted by the Departmental Representative. Only areas required for immediate construction activity and as approved by the Departmental Representative may be cleared. Additional control measures must be installed as excavation advances.
    - 1.9.1.2.2 Stockpiles can be located anywhere in the designated construction work areas approved by

- the Departmental Representative. They must be stabilized against erosion immediately following stockpiling operations. Runoff from the stockpile areas must be contained to prevent contamination of drainage systems.
- 1.9.1.2.3 Sediment and debris must be prevented from reaching waterways.
  - 1.9.1.2.4 Dust control measures must be implemented to prevent wind transport of dust from disturbed soil surfaces.
  - 1.9.1.2.5 On-going inspection and maintenance of Erosion and Sediment Controls must be performed by the Contractor until restoration is achieved.
- 1.9.1.3 Post-Construction Activities:
- 1.9.1.3.1 All accumulated sediment and debris must be removed as required after construction activities are complete.
  - 1.9.1.3.2 Stockpile, storage and laydown areas must be cleaned and restored to pre-construction condition.
  - 1.9.1.3.3 The ESC Plan must include natural area protection measures for natural areas impacted by the project.
- 1.10 TRAFFIC ACCOMMODATION STRATEGY (TAS)
- 1.10.1 The Contractor must prepare a traffic accommodation strategy for the project. The TAS must detail temporary construction signage and detours for public use of the park area during all Stages of construction.
  - 1.10.2 No signs or advertisements, other than warning signs, are permitted on site.
  - 1.10.3 Signs and notices for safety and instruction shall be in both official languages. Graphic symbols shall be diamond grade and shall conform to CAN3-Z321.
  - 1.10.4 Maintain approved signs and notices in good condition for duration of project, and dispose of off-site on completion of project or earlier if directed by the Departmental Representative.
  - 1.10.5 Signage shall be coordinated with other Contractors.