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PARKS CANADA SPECIFICATION FOR WINTER ROADS AND PARKING LOT MAINTENANCE Cavendish PRINCE EDWARD ISLAND NATIONAL PARK

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1. <u>Description of Work</u>

- .1 Work under this contract consists of snow clearing, salting and sanding for park roads and parking lots in Prince Edward Island National Park, as identified below. Work under this contract consists of snow clearing and spreading of sand and salt in the Cavendish sector of Prince Edward Island National Park, Prince Edward Island
- .2 Work consists of the following roads and parking areas in the Cavendish sector:
 - .1 Gulf Shore Parkway (GSP) West including Cawnpore Lane, from the intersection of Route 6 and Cawnpore Lane to Church Hill Avenue Kiosk in North Rustico.

Double lane paved. Map # 1.

9.1 km

.2 Driveway to The Country House Inn from GSP West to fence.

Gravel. Map # 1.

0.1 km

.3 Graham's Lane from Entrance Kiosk to Cavendish Main Beach Complex, including a loop through 1st parking lot, to provide parking for 20 cars. Double lane paved. Map # 2.
1.8 km.

.4 Hammie's Lane from Cavendish Main Beach (1st Parking lot) to "tee" intersection of Hammie's Lane Single lane chipped asphalt. Map # 3.

0.3 km

- .5 Simpson House, Route 6 (east of Cavendish Grove)Single lane gravel, plus parking for three cars. Map #40.4 km
- .6 Snow clearing, and salting / sanding of the parking areas in the Cavendish sector to the Level of Service in HC01006:
 - .1 North Rustico Parking Lot Paved parking for 10 cars Map # 5 1,500 square meters
 - .2 MacNeills Brook Parking Lot
 Paved parking area for 10 cars
 Map # 6
 1,000 square meters

	s Canada e Edward Island National Park		neral In	struction	ons Section HC0100 Page 2 of 7
			.6		.3 Green Gables Paved Parking Lot and entrance / exit driveways, including parking spaces for 20 cars.
					Map # 7.
					4,300 square meters
				.4	Green Gables Rear Gravel Driveway, to allow vehicle access to barnyard, and to diesel generator building. Map # 7. 600 square meters
				.5	Green Gables Barnyard between House, Barn and Outbuildings. Map # 7. 1,000 square meters
2.	Start and Completion Dates and Hours of Operation	.1			ovember 15, 2016 ate - April 15, 2019.
	<u>opermion</u>	.2	of Ser		be maintained annually at the Specified Level m November 15 to April 15 for each winter riod.
			Extend winter Novem of PC	t under sided Sear road minber 15 th A, with	ext be open for traffic for the periods specified, evere weather conditions. son: Contractor should be prepared to carry out aintenance operations prior to 12:01 am and after 11:59PM April 15 th at the discretion remuneration as set out in the PEI Department of and Public Works Machinery Rental Rates

Handbook.

Representative.

.1 Without extra cost to Parks Canada, make suitable provisions to accommodate traffic, either pedestrian or vehicular, over or around any maintenance area of highway upon which work is being performed in a manner satisfactory to the Parks Canada

3.

Temporary Traffic Signs

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- .2 Barricades, signs, delineators, warning lights, flag person's paddles and other devices shall be in strict accordance with PART D of manual <u>Uniform Traffic Control Devices for Canada, (Metric Edition)</u>, distributed by Transportation Association of Canada (TAC).
- 3 Signs, barricades, delineators and flag person's paddles shall be reflectorized to show same shape and colour by night as by day.
- .4 Traffic control signs will be bilingual or symbolic.
- 4. National Parks Act
- .1 All work performed shall be in accordance with the Canada National Parks Act
- 5. Environmental Protection
- 1.1 Because this work is in a National Park, it is essential lands remain in as natural a state as possible. The Contractor is to take special care to protect existing structures, and shall notify the Parks Canada Representative immediately of any damage to structures, historic or natural resources during maintenance activity. The Contractor shall repair any and all damages caused by his personnel or equipment, to the conditions that existed before the damages occurred. The contractor will be advised in writing by the Parks Canada Representative of the urgency of the repair and the time required for completion of repair. If the contractor fails to complete repairs within the time agreed, the Parks Canada Representative will authorize the repairs to be completed by Parks Canada and have the cost deducted from the contractor's payment.

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- .2 Exercise special care to avoid damage to trees, shrubs and vegetation outside of roadway. Should damage occur, restore area to satisfaction of Parks Canada Representative. If Contractor does not restore any damaged areas to satisfaction of the Parks Canada Representative, the work will be undertaken by other means, at the expense of Contractor.
- 6. <u>Disposal of Wastes</u>
- .1 Disposal of waste or volatile materials into waterways is prohibited.
- .2 Disposal of waste petroleum products and litter will be at suitable locations outside Park in accordance with applicable environmental regulations and standards.
- 7. Safety Measures
- .1 The Contractor or his agent (s) must act in conformity with all applicable legislation, including but not limited to, the Canada National Parks Act, The Roads Act, Vehicle Weights Regulations made pursuant thereto, Prince Edward Island Highway Traffic Act, Canada Labour Code, Occupational Health and Safety Act and all regulations pursuant to.
- .2 In the event of conflict between any provisions of the above authorities, most stringent provisions will apply
- 8. Sources and Stock piling of Material
- .1 The Contractor is required to supply all sand and salt as well as store the same outside the Park boundaries in an environmentally approved manner in accordance with applicable Provincial and Federal guidelines and regulations.
- .2 The Contractor is to make own arrangements with authorities or owners of private properties for storing and transportation of materials and machinery necessary for work over their property, roads, or streets, and be responsible for obtaining and payment of applicable fees and permits.
- .3 It is the Contractor's responsibility to have sufficient material on hand to meet the requirements of this contract and anticipate the varied conditions which may be experienced on Prince Edward Island.

	Canada	رام	General Instructions	Section HCO100
Prince	e Edward Island National Pa	ΙK		Page 5 of 7
9.	Contractor's Representative	.1	Contractor shall continuously have representative to whom communic who will be competent to speak for work and work methods during the	ations may be addressed and r the Contractor in discussing
10.	Weight Restrictions	.1	Observe applicable Provincial Govon highways and bridges.	vernment Weight Restrictions
11.	Speed Restrictions	.1	Observe posted speed limit signs w	vithin and outside project limit
12.	Park Signs	.1	Maintain existing signs erected by is necessary to remove a sign to en proceed in its vicinity, dismantle si temporary post or stand set back fr transport and stockpile signs in des directed by Parks Canada Represer considered to be incidental and no for maintaining and moving Park s	able maintenance work to ign, and re-establish it on a common construction area or signated storage area as ntative. This work is separate payment to be made
13.		.1	Maintenance and replacement of means or by the Contractor are the contractor. Any cedar posts broken by the Conshore Parkway because of a lack of equipment are to be replaced by Parks. Replacement will include a damaged posts, and supply and insumable means of the winter because of dri will be replaced by Parks at no cost the contractor will assess the level spring, and come to agreement on the contractor of the contractor of the spring and come to agreement on the contractor.	ntractor along the Gulf of reasonable care and control of the Contractor, at no cost to removal and disposal off-site of stallation of new posts. A d to be broken through the fting and poor visibility, and st to the contractor. Parks and of damage to posts each
14.	Codes and Standards	.1	Materials and workmanship must of applicable standards of Canadian CBoard (CGSB), Canadian Standard American Society for Testing and Association of State Highway and (AASHTO) and other referenced of	Government Specifications Is Association (CSA), Materials (ASTM), American Transportation Officials
		.2	Conform to latest revision of dated reaffirmed or revised to date of adv	vertising of this specification.

that date.

Standards or codes not dated shall be deemed editions in force on

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15. Equipment Rental

.1 Make available to Parks Canada Representative upon written request, equipment which he may wish to rent to carry out work beyond scope of bid items. Rental rates will be in accordance with the current PEI Department of Transportation & Public Works Machinery Rental Rates Handbook. Hourly rental of equipment will be measured in actual time worked and necessary traveling time of equipment within limits of the Park.

16. Communications

- .1 All patrol, plowing and sanding units shall be equipped with cellular phones or radios.
- .2 Contractor's supervisor to be available by phone / pager 24 hours per day during the term of the contract.

17. Contract Pre-Conditions

As a condition of Parks Canada awarding this contract, the Contractor agrees to supply Parks Canada with the following documentation prior to commencing this contract:

- a) a certified copy of the Contractor's current liability insurance policy or renewal certificate;
 a certified copy of all renewals shall be submitted by the Contractor as required during the term of this contract;
- b) a list of equipment which the Contractor proposes using to carry out the contract. List must indicate the Make, Model, Year of Manufacture, and Engine Hours (Engine Hours as applicable) of all pieces of equipment.
- c) copy of the valid registration and inspection for each year of the term of the contract;
- d) a list of winter operators and confirmation that they have a valid driver's license of the appropriate class;
- e) location of equipment and map of plow route(s) indicating roads plowed by each operator and the sequence in which plowed (first to last).
- f) the name of the Contractor's representative and/or alternate, and a cellular phone and/or a pager for 24 / 7 communication for both.

18. Climatic Information

- .1 The Contractor is advised to consult Environment Canada's website for climatic information, at http://www.climate.weatheroffice.ec.gc.ca
- .2 The closest Environment Canada weather station to the contract area is located at New Glasgow.

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19. <u>Snowfall Adjustment</u>

- .1 If the snowfall amount for the winter, as recorded by Environment Canada at the weather station closest to the contract area, exceeds 285 cm, then the Contractor shall receive an additional payment of \$ 2.00 per centimeter per total contract kilometers. If for example the total snowfall was 385 cm, and the total contract kilometers was 10 km, then the additional payment would be : $\frac{100 \text{ cm}}{100 \text{ cm}} = \frac{100 \text{ cm}}{100 \text{ cm}} = \frac{100$
- .2 No penalty will be levied against this contract if recorded snowfall is less than 285 cm from November 15 to April 15.
- .3 Any annual snowfall adjustment will be made on the final contract payment.

20. Extra Work

.1 Equipment dispatched by the Contractor, or requested to be dispatched by Parks Canada, for legitimate emergencies will be considered as extra work. Payment for this work will be on a rental basis as per the PEI Department of Transportation & Public Works Machinery Rental Rates Handbook.

21. <u>Site Meeting</u>

A site meeting will be held at the Parks Canada Green Gables Visitor Centre, at the date and time indicated in the tender call documents. Address 8619 Route 6 Cavendish. At this meeting we will review the tender documents and answer any questions bidders have on the tender. This meeting is not mandatory but is strongly recommended so that all bidders fully understand the nature of the work prior to bidding.

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PART 2 - LEVEL OF SERVICE

- 2.1 <u>General</u> .1 In general, the classes of roads under this contract and the corresponding level of service are as outlined in section 2.5.
- 2.2 <u>Co-ordination</u>

 .1 Work under this contract is governed by these specifications.

 Any discrepancies in levels of service must be brought to the attention of the Park immediately
- 2.3 <u>Hours of Operation</u> .1 Normal hours of operation for winter maintenance activities under this contract shall be 5 AM to 12 Midnight.
- 2.4 <u>Parking Areas</u> .1 Parking areas to be plowed are shown on Maps.
 - .2 Snow removal in parking areas must be done so as to avoid piling snow on or against fences, buildings and trees.
 - .3 The courtyard area at Green Gables National Historic Site of Canada will have to be cleared using a tractor with an attached blower. This is the only area in the contract where this type of equipment is authorized to be utilized.

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2.5

- Service Levels and Standards .1 Snow removal will be performed by the contractor, as required, on roads to ensure roads are kept smooth, safe and open to the travelling public. The efficient removal of snow and slush from travelled lanes and road shoulders to prevent ice build-up has a dramatic effect on ice control costs.
 - Work will commence according to the Service Levels as defined below:
 - .1 Class "B" Roads Primary Objective is to provide travel lanes bare. To attain this objective, plowing will commence when

accumulations reach a depth of 2.5 cm.

- .2 Plowing is to continue with travel lanes maintained to a maximum depth accumulation of 8.0 cm.
- .3 Plowing will continue at night until such time as majority of traffic is off road. The Contractor will be the sole determining factor of when plows will be pulled of roads. Weather permitting plowing operations will resume in morning as to allow plows time to complete one return trip of entire run prior to normal morning traffic patterns. Primary Objective is to be met within 24 hours after end of snowfall, whenever possible.
- .4 Sanding Rates on Class "B" Roads : To provide continuous sanding when required, and if necessary, of center 2.5m of road surface at a rate of 400 kg per km (1400 lb/mile) of road. Contractor will determine when to sand, in accordance with Table A below:

snow

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TABLE A:

ABLE A.				Cond Application Cuidelines
Temperature	Pavement Condition	Precipitation	Instruction	Sand Application Guidelines
0° and above	Wet	Snow	Plow, then sand	Sand hills, curves, intersections, slippery spots.
		Freezing Rain	Sand	Sand full length of road
		Snow	Plow, then sand	Sand hills, curves, intersections, slippery spots.
- 4° to 0° C	Wet	Freezing Rain	Sand	Sand full length of road
- 7° to -4° C	Wet	Snow	Plow, then sand	Sand hills, curves, intersections, slippery spots.
- 10° to - 7° C	Dry	Snow	Plow, then sand	Sand hills, curves, intersections, slippery spots.
Below - 10° C	Snow packed	Nil	Plow, then sand	Sand hills, curves, intersections, slippery spots.
	Dry	Snow	Plow, then sand	Sand hills, curves, intersections, slippery spots.

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- .4 In certain severe weather conditions, Parks Canada will instruct the Contractor to salt the roads rather than sand. The Contractor is to include the cost of supplying and spreading twenty (20) tonnes of salt in the contract price. Salt application rate to be determined by Parks Canada. Salt is to meet the specifications indicated in HCO1009.
- .5 Parking Areas : Parking areas to be plowed by 9am. Ice control to be carried out for all parking areas as required to ensure areas are safe.

Parks Canada	ROAD PATROL	Section HC01007
Prince Edward Island N	lational Park	Page 1 of 1

1.1 Related Work .1 Level of Service HC01006 .2 Snow clearing HC01008

.3 Sanding and Salting HC01009

PART 2 - EXECUTION

2.1 <u>Patrol Vehicle</u> .1 The Contractor will be required to monitor snowfall and road

condition and to dispatch plows, salting and sanding equipment to achieve the Level of Service specified in

Section HC01006.

2.2 <u>Frequency of Patrol</u> .1 Patrols will be carried out on each road at least once per

day; more frequently during periods of snow, blowing snow

and freezing rain.

2.3 Reporting .1 Any damage to guiderail, bridges, culverts, etc. observed

during routine road patrol will be reported to the Parks

Canada Representative that same day.

.2 All patrols shall be documented on forms supplied by Parks

Canada. (See Appendix 1)

.3 All snow clearing, salting and sanding operations are to be reported on forms supplied by Parks Canada. (See

Appendix 2). These reports shall include date, time,

equipment used and sand/salt quantities.

Parks Canada	SNOW CLEARING	Section HC01008
Prince Edward Island N	National Park	Page 1 of 3

1.1	Related Work	.1	Level of Service	HC01006
		.2	Road Patrol	HC01007
		.3	Salting and Sanding	HC01009
		.4	Scarifying	HC01010

PART 2 - EXECUTION

- 2.1 Width to be Maintained
- .1 For the duration of the contract, the width to be maintained is that of the pavement width plus the shoulder. Snow banks will be kept to the outside edge of the shoulder to ensure that any water created by thawing conditions can readily drain from the highway surface.
- 2.2 Operation Procedure
- .1 The Contractor must start operations at the beginning of each snow fall and plow continuously as long as it is snowing and as often as necessary to permit the flow of traffic as per the Level of Service, Section HC01006.
- 2.3 <u>Potential Danger Areas</u>
- .1 The Contractor must pay great attention to the care of potentially dangerous areas such as narrow cuttings, curves, guide rails, bridges, intersections, stop signs, etc. so as to prevent accidents and avoid damage to these features.
- 2.4 After Snowfall
- .1 After each snowfall, the Contractor must continue to remove snow to the service level required. In order to prevent, as much as possible, the formation of drifts the Contractor must lower the snow banks on each side of the road. Moreover intersections must be cleared to ensure adequate visibility.

2.5 Slush

.1 All roads shall be plowed in such a manner as to have a smooth traveling surface. When roads are slush covered it will be the Contractor's responsibility to remove all slush that develops either because of precipitation or because of thawing of snow built-up on the roads.

Parks Canada	SNOW CLEARING	Section HC01008
Prince Edward Island Na	itional Park	Page 2 of 3

2.6 Removal of Plows

.1 The removal of snow plows from the road under severe conditions, visibility less than 200 m, is to be on a consultative basis with the Parks Canada Representative and the PEI Department of Transportation & Public Works.

2.7 Snow Plow Markers

- .1 The Contractor is required to provide, place and remove markers to protect guardrails, bridges, etc. The care of these markers will be the Contractor's responsibility.
- .2 Markers shall be 50 mm X 50 mm wood stakes approximately 1.5 m in height with reflectors.

2.8 Signs

.1 The clearing away of snow obscuring the legibility of signs is the Contractor's responsibility.

PART 3 - EQUIPMENT REQUIREMENTS

3.1 Plow Truck

- .1 The plow truck shall be equipped with a one-way plow and wing, safety lights, warning signs and other safety features to Prince Edward Island Department of Transportation and Public Works standards.
- .2 The vehicle must comply in all respects with the Highway Traffic Act regulations of Prince Edward Island.
- .3 Vehicle to comply with applicable Canadian Motor Vehicle Safety Standards.
- .4 An inspection of all equipment to be used for snow clearing will be completed and approved by an authorized Park representative, or a commercial garage selected by Parks Canada.

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Parks Canada	SNOW CLEARING	Section HC01008
Prince Edward Island N	ational Park	Page 3 of 3

3.2 Plow Truck Attachments

- .1 The plow truck shall be equipped with a salt spreader complete with electronic spreader controls that are regulated to ground speed.
- .2 The push frame to be constructed from 4" X 4" X 3/8" steel tubing, 2 compression coils springs to provide a safety trip (the springs must have safety retainer tubes to prevent projectile), oscillating bar to permit plow to follow the contour of the road and 2 adjustable push shoes of NI-HARD cast iron.
- 3.3 Condition of Equipment
- .1 All equipment must be in good working order.
- 3.4 Replacement Units
- .1 Replacement units must be available for immediate dispatch in the event of equipment breakdown. If that is not possible, Parks Canada reserves the right to have the work done by others, and to reduce the contract value by the cost of that work.

Parks Canada	SALTING AND SANDING	Section HC01009
Prince Edward Island Nati	onal Park	Page 1 of 4

1.1	Related Work	.1 Level of Serv	rice HC01006
		.2 Road Patrol	HC01007
		.3 Snow clearing	g HC01008
		.4 Scarifying	HC01010

PART 2 - PRODUCTS

2.1 Salt Abrasives

- .1 Salt used for maintenance purposes under this contract shall conform to the following requirements for Type 1 deicing salt as per ASTM standards.
 - .1 Chemical Composition;

Sodium Chloride (NACL), min.. 94.0 %

.2 Physical Requirements;

Sieve Size	Weight % Passing	
20 000 14 000	 100	
10 000	95 to 100	
5 000	20 to 90	
2 500	10 to 60	
630	0 to 10	

2.2 <u>Sand</u>

- .1 Sand used for maintenance purpose under this contract shall conform to the following requirements:
- .3 Gradation to be within limits specified when tested;

Sieve Size	% Passing
9.52 mm	100
4.75 mm	98-87
2.36 mm	95-55
1.18 mm	90-30
.600 mm	70-10
.300 mm	38-0
.150 mm	18-0
.075 mm	7-0

Between the sieve sizes listed above, there shall be a maximum of only 35% difference between the percents passing consecutive sieves.

Crushed material Content: A minimum of thirty percent (30%) crushed imported sand or crushed local stone of equivalent quality must be used to manufacture this blended material. Accordingly, for the purpose of this blended winter sand specification, the definition of crushed shall mean a material having fractured faces, or similar natural angles, on 50% or more of the material retained on the 2.36 mm sieve.

This material must be blended with 60 kilograms of salt to 1 tonne of sand.

Parks Canada	SALTING AND SANDING	Section HC01009
Prince Edward Island National Park		Page 3 of 4

PART 2 - EXECUTION

2.1 Width to be Maintained		Width to	be Mai	intained
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- .1 For the duration of the contract, the width to be salted or sanded is as specified in Section HC01006. Sand is to be applied in a 2.5m strip down the center, crown of a two-lane highway. On super-elevated sections (curves), the sand shall be kept as high up on the curve as possible
- 2.2 Operation Procedure
- .1 Salt shall be applied as per on-site instructions from Parks Canada during severe weather conditions
- 2.3 Potential Danger Areas
- .1 The Contractor must pay great attention to the care of potentially dangerous areas such as narrow cuttings, curves, guide rails, bridges, intersections, stop signs, etc. so as to prevent accidents and avoid damage to these features. Pre-salting should also be carried out in sun-melt areas.

2.4 After Snowfall

.1 After each snowfall, the Contractor must continue to sand to the width required as per the Level of Service, Section HC01006.

PART 3 - EQUIPMENT REQUIREMENTS

3.1 Salt truck

- .1 The salt truck shall be equipped with a minimum 4 cubic meter box with electronic spreader controls that are regulated to ground speed, safety lights, warning signs and other safety features to Prince Edward Island Department of Transportation Standards.
- .2 The vehicle must comply in all respects with the Highway Traffic Act Regulations of Prince Edward Island.
- .3 Vehicle to comply with all applicable Canadian Motor Vehicle Safety Standards.
- .4 An inspection of all equipment to be used for snow clearing and salting/sanding will be completed and approved by an authorized Park representative, or a commercial garage selected by Parks Canada.

3.2 Condition of Equipment

.1 All equipment must be in good working order.

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3.3 Replacement Units

.1 Replacement units must be available for immediate dispatch in the event of equipment breakdown. If that is not possible, Parks Canada reserves the right to have the work done by others, and to reduce the contract value by the cost of that work.

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1.1	Related Work	.1 Level of Service	HC01006
		.2 Road Patrol	HC01007
		.3 Snow clearing	HC01008
		.4 Salting and Sanding	HC01009

PART 2 - EXECUTION

2.1 Conditions for Scarifying

- .1 When cold, windy conditions are severe and there is considerable buildup of polished snow or ice, scarifying will be required on all highways.
- .2 Scarifying should be done when the snow pack or ice buildup is so smooth and hard that sand will not stick to the surface.
- 2.2 Operation Procedure for Scarifying
- .1 The procedure shall be carried out using a grader with a blade equipped with teeth to roughen and scarify the snow and ice pack. Do not damage asphalt surface.
- 2.3 Condition for Ice Removal
- .1 When under thawing conditions ice builds up during colder period and forms potholes greater that 75 mm the ice shall be removed by grader using a summer blade to avoid damage to the road surface. Do not damage asphalt surface.

PART 3 - EQUIPMENT REQUIREMENTS

3.1 Grader

- .1 The grader must be equipped with a wing.
- .2 The vehicle must comply in all respects with the Highway Traffic Act regulations of Prince Edward Island.
- .3 Vehicle to comply with all applicable Canadian Motor Vehicle Safety Standards.

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- .4 An inspection of all equipment to be used for scarifying will be completed and approved by an authorized Park representative, or a commercial garage selected by Parks Canada.
- .5 The grader shall be equipped with one rotating amber beacon located on the cab roof and four way flashing lights.
- .6 If a V-mounted plow is attached to the grader, the push frame to be constructed from 4" X 4" X 3/8" steel tubing, 2 compression coils springs to provide a safety trip (the springs must have safety retainer tubes to prevent projectile), oscillating bar to permit plow to follow the contour of the road and 2 adjustable push shoes of NI-HARD cast iron.
- 3.2 Condition of Equipment
- .1 All equipment must be in good working order.
- 3.3 Replacement Units
- .1 Replacement units must be available within 24 hours notice.

PARKS CANADA DAILY WINTER MAINTENANCE ROAD REPORT Cavendish Sector

	pavement condition		pavement condition (%) number of passes						number of pa			
ROAD		Bare	centre bare	Snow covered	Snow packed	Ice	Speed plow	Grader	Blower	Wing back	Sand	
Gulf Shore Parkwa	ıy West											
Graham's La	ne											
Hammie's La	ne											
Simpson Hou	se											
North Rustico P	. Lot											
MacNeill's Brook	P. Lot											
Green Gables Co	mplex											
COMMENTS:												

Maps