

1. Bridge name:	A. Murray MacKay Bridge																											
2. Location:	Halifax, Nova Scotia, Canada																											
3. Year opened to traffic:	1970																											
4. Design: Suspension/Cable stayed etc.	Suspension Bridge Designed by Pratley and Dorton Consulting Engineers																											
5. Type of traffic: Road and/or railway	Road Traffic																											
6. Bridge owner Contact information	Halifax-Dartmouth Bridge Commission (doing business as Halifax Harbour Bridges) P.O. Box 40, 125 Wyse Road Dartmouth, NS, B2Y 3Y2, Canada Tel: (902) 463-2800 Fax: (902) 469-6281 Email: bridges@hdbc.ns.ca																											
7. Bridge operator Contact information If possible concession period	Halifax Harbour Bridges (HHB)																											
8. Traffic: Average Annual Daily Traffic-(AADT) Max. recorded daily traffic Max. recorded traffic per hour per direction Percentage of trucks Collisions Statistics	<table border="0"> <thead> <tr> <th></th> <th><u>2014</u></th> <th><u>2015</u></th> </tr> </thead> <tbody> <tr> <td>Average Annual Daily Traffic-(AADT)</td> <td>52,842</td> <td>58,772</td> </tr> <tr> <td>Max. recorded daily traffic</td> <td>68,661 (Nov)</td> <td>83,689 (Nov)</td> </tr> <tr> <td>Max. recorded traffic per hour per direction</td> <td>5,890 (PM Peak)</td> <td>6,181 (PM Peak)</td> </tr> <tr> <td></td> <td>5,406 (AM Peak)</td> <td>5,930 (AM Peak)</td> </tr> <tr> <td colspan="3">Note: traffic volume increased in 2015 due to the Macdonald Bridge closures for re-decking project.</td> </tr> <tr> <td>Percentage of trucks</td> <td>5.96%</td> <td>5.54%</td> </tr> <tr> <td>Collisions Statistics</td> <td>193</td> <td></td> </tr> <tr> <td></td> <td colspan="2">(Toll Plaza area =50%, Bridge Deck=21%, Approach=29%)</td> </tr> </tbody> </table>		<u>2014</u>	<u>2015</u>	Average Annual Daily Traffic-(AADT)	52,842	58,772	Max. recorded daily traffic	68,661 (Nov)	83,689 (Nov)	Max. recorded traffic per hour per direction	5,890 (PM Peak)	6,181 (PM Peak)		5,406 (AM Peak)	5,930 (AM Peak)	Note: traffic volume increased in 2015 due to the Macdonald Bridge closures for re-decking project.			Percentage of trucks	5.96%	5.54%	Collisions Statistics	193			(Toll Plaza area =50%, Bridge Deck=21%, Approach=29%)	
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9. Number of road lanes per direction Number of rail lanes per direction Pedestrian Y/N Cyclist Y/N Emergency lane Y/N Road wearing surface type	Two lanes per direction NA No No No Suspended Spans: Polymer Modified Asphalt (PMA) and Rosphalt (3 m X 114 m Trial Section) Approach Spans: Polymer Modified Asphalt Thickness: Approximately 50 mm																											

10. Total length of the bridge	1.24 KM
Main span	427 m Side Spans 156 m each
Approach span	Halifax Approach Spans 114 m Dartmouth Approach Spans 382 m
11. Type and height of pylon/Towers	Steel Tower 87 m
12. Type of girder Height and width	Suspension Span: Stiffening Truss H= 3000 mm B= 457 mm Approach Spans: Box Girder Span H= 2439 mm B= 1220 mm
13. Type of foundation	Concrete foundation on bedrock
14. Sea depth at main span	22 m
15. Vessel navigation channel Width Clearance for vessels	110 m 51 m
16. Vessel/Ship traffic (annual traffic in 2015)	610
17. Cable structure: Type, dimension etc. of main cable/stay cable Type, dimension etc. of hangers Is the cable structure dehumidified If so, established year	Main Cable is comprised of a bundle of 61 - 40 mm diameter galvanized bridge strands in a hexagonal arrangement. Nominal diameter of the cable is 364 mm Hangers are made of 54 mm diameter wire rope consists of structural stands (6 outer strands and 1 core stand, each individual wire was hot dipped galvanized) with open spelter socket at each end. Main Cable is not dehumidified
18. Expansion joints: Number Type	4 (two for Main Towers and two for Cable Bents) and 3 for Approach Spans Modular Joints (Main Tower) Bolt Down Joints with Rubber Seal (Cable Bent)

Photo: A. Murray MacKay Bridge

