



Bridge Repair/Strengthening Summary



Mile Post	MaineDOT Bridge #	Town	Feature Crossed	Bridge Type	Bridge Length	No. of Spans	Existing Rating Factor (25 MPH)	Strengthening/Repair Construction Cost Estimate
111.14	7763	Grindstone	South Meadow Brook	I-Beam	23'-5"	1	229	\$360,000
113.14	814	Grindstone	Route 11	Through Plate Girder	36'	1	210	\$230,000
113.14	7766	Grindstone	East Branch Penobscot River	Through Truss	300'-10"	2	350	\$500,000
139.56	7771	Island Falls	Fish River	Through Plate Girder	75'-8"	1	264	\$190,000
139.66	7772	Island Falls	West Branch Mattawamkeag River	Through Plate Girder	120'-8"	2	350	\$170,000
148.70	3504	Oakfield	Ridge Road	Ballasted Through Plate Girder	43'-6"	1	254	\$170,000
151.54	7775	Smyrna Mills	East Branch Mattawamkeag River	Through Plate Girder	76'	1	235	\$240,000
154.04	7776	Smyrna	Soule Brook	I-Beam	13'	1	189	\$260,000
154.59	7777	Smyrna	Dudley Brook	Through Plate Girder	55'	1	228	\$290,000
155.09	N/A	Smyrna	Moose Brook	Concrete Slab	9'	1	142	\$180,000
161.03	7778	Dudley Township	Smith Brook	Through Plate Girder	76'	1	235	\$390,000
164.74	7779	St. Croix Township	Howe Brook	Through Plate Girder	55'	1	228	\$190,000
167.76	7780	St. Croix Township	Beaver Brook	Deck Plate Girder	45'	1	205	\$230,000
179.34	7781	Masardis	North Branch Blackwater River	Deck Plate Girder	44'-1"	1	205	\$170,000
185.84	7782	Masardis	Squapan Stream	Through Plate Girder	75'-1"	1	233	\$250,000
193.50	7783	Ashland	Aroostook River	Deck Truss	608'-8"	4	222	\$4,510,000
193.50	7783	Ashland	Sheridan Road	Deck Plate Girder	166'	4	205	\$620,000
224.51	7785	Eagle Lake	Fish River	Deck Plate Girder	180'-6"	2	350	\$560,000
236.44	7787	Wallagrass	Wallagrass Stream	Through Plate Girder	76'	1	287	\$440,000
241.83	7788	Fort Kent	Fish River	Deck Plate Girder	270'-6"	3	350	\$1,600,000
253.87	7792	Frenchville	Dickey Brook	Through Plate Girder	65'-7"	1	260	\$390,000
259.11	7831	Frenchville	Gagnon Brook	Concrete Arch	12'	1	N/A	\$1,300,000

Total Strengthening/Repair Construction Cost Estimate (2016 Dollars): \$13,240,000

Prepared By:



Bridge Identification

Mile Post: <u>111.14</u>	Town: <u>Grindstone</u>	Latitude: <u>45.7085</u>
MaineDOT Bridge #: <u>7763</u>	Feature Crossed: <u>South Meadow Brook</u>	Longitude: <u>68.6106</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>23'-5"</u>	Date Built: <u>1893</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/5/16</u>

Bridge Description: Single span open timber deck four I-Beam superstructure bearing on concrete bridge seats supported by stone masonry abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>229</u>
<ul style="list-style-type: none"> - Replace existing superstructure with new open timber deck steel plate girder superstructure - Replace rotted/failing backwall timbers at both abutments - Repoint granite stone masonry abutments 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$360,000

Bridge Identification

Mile Post: <u>113.14</u>	Town: <u>Grindstone</u>	Latitude: <u>45.7317</u>
MaineDOT Bridge #: <u>7766</u>	Feature Crossed: <u>East Branch Penobscot River</u>	Longitude: <u>68.5896</u>

Bridge Information

No. of Spans: <u>2</u>	Total Bridge Length: <u>300'-10"</u>	Date Built: <u>1925</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/31/16</u>

Bridge Description: Two span open timber deck through truss supported by a stone masonry abutment and two stone masonry piers.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>350</u>
<ul style="list-style-type: none"> - Replace all bridge timbers - Repair floorbeam crack - Install additional web stiffeners on end floorbeams 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$500,000

Bridge Identification

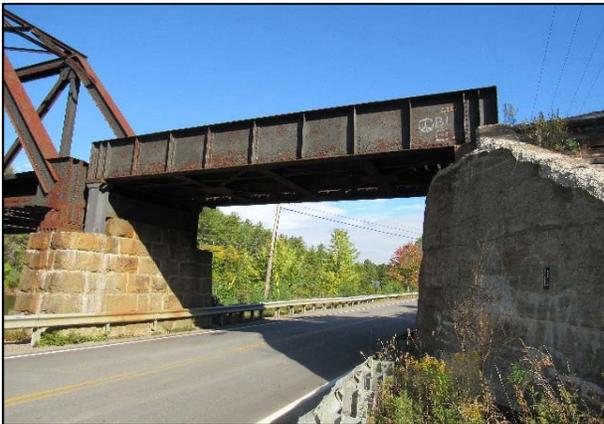
Mile Post: <u>113.14</u>	Town: <u>Grindstone</u>	Latitude: <u>45.7316</u>
MaineDOT Bridge #: <u>814</u>	Feature Crossed: <u>Route 11</u>	Longitude: <u>68.5890</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>36'</u>	Date Built: <u>Unknown</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/31/16</u>

Bridge Description: Single span open timber deck through plate girder superstructure supported by a concrete abutment and a stone masonry pier.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>210</u>
<ul style="list-style-type: none"> - Strengthen floorbeams and replace stringers - Replace rotted/failing timber retaining wall behind Northeast wingwall - Concrete patch repair abutment 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$230,000

Bridge Identification

Mile Post: <u>139.56</u>	Town: <u>Island Falls</u>	Latitude: <u>46.0152</u>
MaineDOT Bridge #: <u>7771</u>	Feature Crossed: <u>Fish River</u>	Longitude: <u>68.2832</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>75'-8"</u>	Date Built: <u>1914</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/20/16</u>

Bridge Description: Single span open timber deck through plate girder superstructure supported by concrete abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations: Existing Rating Factor (25mph): 264

- Strengthen floorbeams
- Replace deteriorated bearing stiffeners
- Replace deteriorated lateral bracing connection plates
- Rebuild top of wingwalls and abutment seat/pedestals
- Rebuild failing Southeast timber retaining wall

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$190,000

Bridge Identification

Mile Post: <u>139.66</u>	Town: <u>Island Falls</u>	Latitude: <u>46.0157</u>
MaineDOT Bridge #: <u>7772</u>	Feature Crossed: <u>West Branch Mattawamkeag River</u>	Longitude: <u>68.2813</u>

Bridge Information

No. of Spans: <u>2</u>	Total Bridge Length: <u>120'-8"</u>	Date Built: <u>1930</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/20/16</u>

Bridge Description: Two span open timber deck through plate girder superstructure supported by one concrete abutment, one concrete bridge seat on a stone masonry abutment, and a concrete pier.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>350</u>
<ul style="list-style-type: none"> - Replace selected bridge timbers - Concrete patch repair pier and south abutment - Rebuild deteriorated corner of pier which is beginning to undermine bearing pedestal 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$170,000

Bridge Identification

Mile Post: <u>148.70</u>	Town: <u>Oakfield</u>	Latitude: <u>46.0995</u>
MaineDOT Bridge #: <u>3504</u>	Feature Crossed: <u>Ridge Road</u>	Longitude: <u>68.1536</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>43'-6"</u>	Date Built: <u>1941</u>
No. of Tracks: <u>2</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/6/16</u>

Bridge Description: Single span ballasted through plate girder superstructure supported by concrete abutments. There are three through plate girders supporting two tracks.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>254</u>
<ul style="list-style-type: none"> - Strengthen floorbeams - Rebuild concrete pedestals - Concrete patch repair both abutments - Repair damaged knee braces 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$170,000

Bridge Identification

Mile Post: <u>151.54</u>	Town: <u>Smyrna Mills</u>	Latitude: <u>46.1351</u>
MaineDOT Bridge #: <u>7775</u>	Feature Crossed: <u>East Branch Mattawamkeag River</u>	Longitude: <u>68.1640</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>76'</u>	Date Built: <u>1896</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/7/16</u>

Bridge Description: Single span open timber deck through plate girder superstructure supported by stone masonry abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations: Existing Rating Factor (25mph): 235

- Strengthen girders
- Replace bridge timber support shelf angles
- Repair undermining at South abutment
- Repoint stone masonry abutments
- Install additional web stiffeners and retrofit existing web plate splices

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$240,000

Bridge Identification

Mile Post: <u>154.04</u>	Town: <u>Smyrna</u>	Latitude: <u>46.1663</u>
MaineDOT Bridge #: <u>7776</u>	Feature Crossed: <u>Soule Brook</u>	Longitude: <u>68.1561</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>13'</u>	Date Built: <u>1896</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/6/16</u>

Bridge Description: Single span open timber deck four I-Beam superstructure bearing on concrete bridge seats supported by stone masonry abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>189</u>
<ul style="list-style-type: none"> - Replace existing superstructure with new open timber deck steel plate girder superstructure - Repoint granite stone masonry abutments - Replace rotted/failing Southeast timber retaining wall - Rebuild tops of bridge seats 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$260,000

Bridge Identification

Mile Post: <u>154.59</u>	Town: <u>Smyrna</u>	Latitude: <u>46.1737</u>
MaineDOT Bridge #: <u>7777</u>	Feature Crossed: <u>Dudley Brook</u>	Longitude: <u>68.1603</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>55'</u>	Date Built: <u>1896</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/7/16</u>

Bridge Description: Single span open timber deck through plate girder superstructure supported by stone masonry abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations: Existing Rating Factor (25mph): 228

- Strengthen girders
- Replace bridge timber support shelf angles
- Repoint stone masonry abutments
- Replace all bridge timbers
- Install additional web stiffeners and retrofit existing web plate splices

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$290,000

Bridge Identification

Mile Post: <u>155.09</u>	Town: <u>Smyrna</u>	Latitude: <u>46.1806</u>
MaineDOT Bridge #: <u>N/A</u>	Feature Crossed: <u>Moose Brook</u>	Longitude: <u>68.1634</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>9'</u>	Date Built: <u>1953</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Curved (3° 13')</u>	Date Inspected: <u>10/6/16</u>

Bridge Description:

Single span reinforced concrete slab superstructure supported by stone masonry abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:

- Replace existing superstructure
- Repoint stone masonry abutments
- Rebuild Southeast timber retaining wall

Existing Rating Factor (25mph): 142

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$180,000

Bridge Identification

Mile Post: <u>161.03</u>	Town: <u>Dudley Township</u>	Latitude: <u>46.2626</u>
MaineDOT Bridge #: <u>7778</u>	Feature Crossed: <u>Smith Brook</u>	Longitude: <u>68.1583</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>76'</u>	Date Built: <u>1896</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Curved</u>	Date Inspected: <u>10/19/16</u>

Bridge Description: Single span open timber deck through plate girder superstructure supported by stone masonry abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations: Existing Rating Factor (25mph): 235

- Strengthen girders
- Replace bridge timber support shelf angles
- Repoint stone masonry abutments
- Replace all bridge timbers
- Repair damaged knee braces and end plates
- Install additional web stiffeners and retrofit existing web plate splices
- Repair concrete apron around North abutment

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$390,000

Bridge Identification

Mile Post: <u>164.74</u>	Town: <u>St. Croix Township</u>	Latitude: <u>46.3072</u>
MaineDOT Bridge #: <u>7779</u>	Feature Crossed: <u>Howe Brook</u>	Longitude: <u>68.1970</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>55'</u>	Date Built: <u>1896</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/6/16</u>

Bridge Description: Single span open timber deck through plate girder superstructure supported by stone masonry abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations: Existing Rating Factor (25mph): 228

- Strengthen girders
- Replace bridge timber support shelf angles
- Replace deteriorated stiffener angles
- Repoint stone masonry abutments
- Repair damaged knee braces and end plates
- Install additional web stiffeners and retrofit existing web plate splices

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$190,000

Bridge Identification

Mile Post: <u>167.76</u>	Town: <u>St. Croix Township</u>	Latitude: <u>46.3329</u>
MaineDOT Bridge #: <u>7780</u>	Feature Crossed: <u>Beaver Brook</u>	Longitude: <u>68.2467</u>

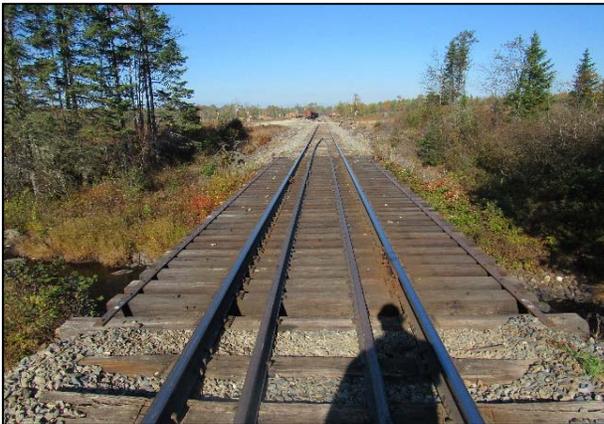
Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>45'</u>	Date Built: <u>1896</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/6/16</u>

Bridge Description:

Single span open timber deck plate girder superstructure supported by stone masonry abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>205</u>
<ul style="list-style-type: none"> - Strengthen girders - Replace all bridge timbers - Repoint stone masonry abutments - Rebuild tops of concrete backwalls and wingwalls 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$230,000

Bridge Identification

Mile Post: <u>179.34</u>	Town: <u>Masardis</u>	Latitude: <u>46.4730</u>
MaineDOT Bridge #: <u>7781</u>	Feature Crossed: <u>North Branch Blackwater River</u>	Longitude: <u>68.3435</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>44'-1"</u>	Date Built: <u>1896</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/5/16</u>

Bridge Description:

Single span open timber deck plate girder superstructure supported by stone masonry abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>205</u>
<ul style="list-style-type: none"> - Strengthen girders - Repoint stone masonry abutments - Rebuild tops of concrete backwalls and wingwalls 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$170,000

Bridge Identification

Mile Post: <u>185.84</u>	Town: <u>Masardis</u>	Latitude: <u>46.5595</u>
MaineDOT Bridge #: <u>7782</u>	Feature Crossed: <u>Squapan Stream</u>	Longitude: <u>68.3749</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>75'-1"</u>	Date Built: <u>1896</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/5/16</u>

Bridge Description: Single span open timber deck through plate girder superstructure supported by stone masonry abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations: Existing Rating Factor (25mph): 233

- Strengthen girders
- Replace bridge timber support shelf angles
- Replace deteriorated stiffener angles
- Repoint stone masonry abutments
- Rebuild top half of North concrete backwall
- Rebuild Southeast timber retaining wall
- Repair damaged end plates
- Retrofit existing web plate splices

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$250,000

Bridge Identification

Mile Post: <u>193.50</u>	Town: <u>Ashland</u>	Latitude: <u>46.6538</u>
MaineDOT Bridge #: <u>7783</u>	Feature Crossed: <u>Aroostook River</u>	Longitude: <u>68.4105</u>

Bridge Information

No. of Spans: <u>4</u>	Total Bridge Length: <u>608'-8"</u>	Date Built: <u>1902</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/24/16</u>

Bridge Description:

Four span open timber deck truss supported by stone masonry piers.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:

Existing Rating Factor (25mph): 222

- Replace truss stringers
- Replace truss diagonals
- Strengthen truss verticals
- Tighten truss counters
- Rehabilitate bearings
- Replace all bridge timbers
- Repoint stone masonry piers
- Concrete patch repair concrete aprons around piers

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$4,510,000

Bridge Identification

Mile Post: <u>193.50</u>	Town: <u>Ashland</u>	Latitude: <u>46.6538</u>
MaineDOT Bridge #: <u>7783</u>	Feature Crossed: <u>Sheridan Road</u>	Longitude: <u>68.4105</u>

Bridge Information

No. of Spans: <u>4</u>	Total Bridge Length: <u>166'</u>	Date Built: <u>1902</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/26/16</u>

Bridge Description:

Two two-span open timber deck plate girder approaches supported by stone masonry piers and abutments. These spans are the approaches to the deck truss spans over the Aroostook River.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:

Existing Rating Factor (25mph): 205

- Strengthen deck girders
- Repair impact damage to steel pier bent
- Repoint stone masonry abutments
- Replace all bridge timbers
- Rebuild Northwest timber retaining wall
- Install additional web stiffeners and retrofit existing web plate splices

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$620,000

Bridge Identification

Mile Post: <u>224.51</u>	Town: <u>Eagle Lake</u>	Latitude: <u>47.0139</u>
MaineDOT Bridge #: <u>7785</u>	Feature Crossed: <u>Fish River</u>	Longitude: <u>68.5891</u>

Bridge Information

No. of Spans: <u>2</u>	Total Bridge Length: <u>180'-6"</u>	Date Built: <u>1902</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/17/16</u>

Bridge Description: Two span open timber deck plate girder superstructure supported by a concrete pier and concrete abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>350</u>
<ul style="list-style-type: none"> - Install additional web stiffeners - Install wingwall tie-back system at both abutments - Rebuild Northwest corner of abutment backwall/wingwall 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$560,000

Bridge Identification

Mile Post: <u>236.44</u>	Town: <u>Wallagrass</u>	Latitude: <u>47.1687</u>
MaineDOT Bridge #: <u>7787</u>	Feature Crossed: <u>Wallagrass Stream</u>	Longitude: <u>68.5861</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>76'</u>	Date Built: <u>1902</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/17/16</u>

Bridge Description: Single span open timber deck through plate girder superstructure supported by concrete abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations: Existing Rating Factor (25mph): 287

- Replace bridge timber support shelf angles
- Repair damaged knee braces
- Install additional web stiffeners
- Repair area of scour under North abutment
- Repair concrete abutments

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$440,000

Bridge Identification

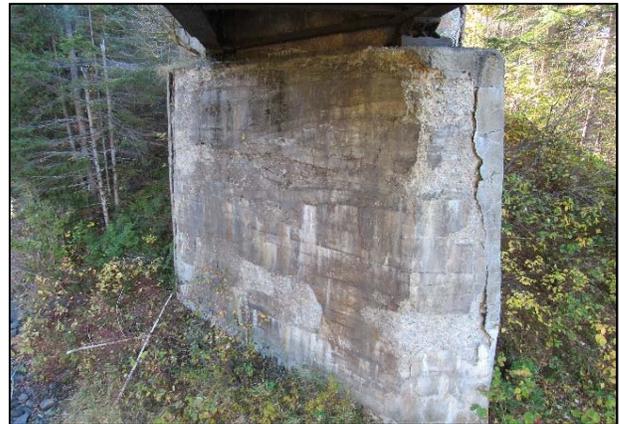
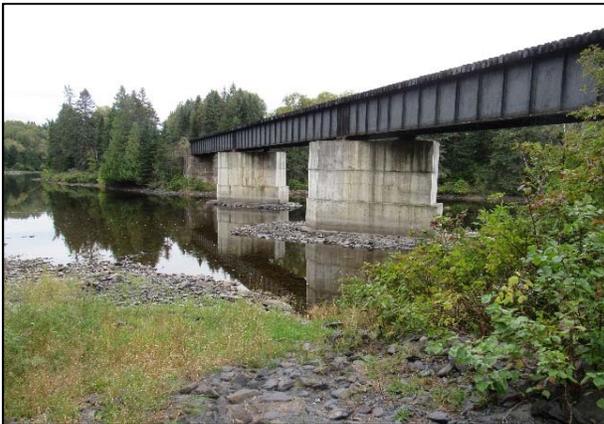
Mile Post: <u>241.83</u>	Town: <u>Fort Kent</u>	Latitude: <u>47.2309</u>
MaineDOT Bridge #: <u>7788</u>	Feature Crossed: <u>Fish River</u>	Longitude: <u>68.5718</u>

Bridge Information

No. of Spans: <u>3</u>	Total Bridge Length: <u>270'-6"</u>	Date Built: <u>1902</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/14/16</u>

Bridge Description: Three span open timber deck plate girder superstructure supported by concrete piers and concrete abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>350</u>
<ul style="list-style-type: none"> - Install additional web stiffeners - Support existing superstructure to remove and replace abutment backwalls and seats - Install wingwall tie-back system - Jacket existing abutments with concrete 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$1,600,000

Bridge Identification

Mile Post: <u>253.87</u>	Town: <u>Frenchville</u>	Latitude: <u>47.2808</u>
MaineDOT Bridge #: <u>7792</u>	Feature Crossed: <u>Dickey Brook</u>	Longitude: <u>68.4256</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>65'-7"</u>	Date Built: <u>1910</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Curve</u>	Date Inspected: <u>10/11/16</u>

Bridge Description: Single span open timber deck through plate girder superstructure supported by concrete abutments.

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>260</u>
<ul style="list-style-type: none"> - Strengthen stringers - Rebuild Northeast wingwall - Concrete patch repair both abutments - Install additional web stiffeners and retrofit existing web plate splices 	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$390,000

Bridge Identification

Mile Post: <u>259.11</u>	Town: <u>Frenchville</u>	Latitude: <u>47.3195</u>
MaineDOT Bridge #: <u>7831</u>	Feature Crossed: <u>Gagnon Brook</u>	Longitude: <u>68.3820</u>

Bridge Information

No. of Spans: <u>1</u>	Total Bridge Length: <u>12'</u>	Date Built: <u>Unknown</u>
No. of Tracks: <u>1</u>	Track Alignment: <u>Tangent</u>	Date Inspected: <u>10/3/16</u>

Bridge Description:

Cast-in-place concrete arch

Bridge Photos:



Strengthening and Repair Recommendations

Recommendations:	Existing Rating Factor (25mph): <u>N/A</u>
- Replace culvert with new precast concrete culvert or arch	

Construction Cost Estimate

The Estimated Construction Cost for the Strengthening and Repair Recommendations above is: \$1,300,000