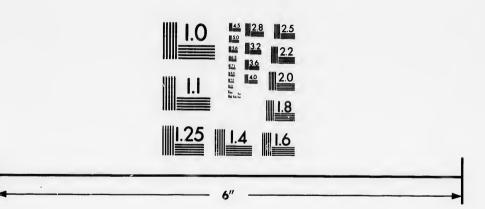


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NOVA-SCOTIA RAILWAY.

SPECIFICATION

Of the several WORKS to be done in Grading, Bridging, Draining, and providing Ballast for that portion of the "NOVA-SCOTIA RAILWAY" included between points near Piers' Mill and Coehrane's Building Yard, and marked A and B on Ground Plan and Section, Sheets No. 1 and 2, herein referred to.

The red line on the Ground Plan, Sheet 1, shews the centre line of the Railway, as staked out on the ground. Embankments are coloured yellow on the Section, and Cuttings red. The red line on the Section describes the top of the Embankments, and the bottom of the Cuttings, previous to laying on the ballast. The black undulating line describes the present natural surface of the ground along the centre of the line of Railway.

The figures on the section indicating the depths of cutting, are marked in blue, those indicating the heights of Embankment in red, and show the distances from the surface at the top of each stake to the red line or formation level of the Railway; and the top of all the Embankments, and the bottom of all the Cuttings, shall accurately coincide and range with the formation level, after the Embankments are fully consolidated. The formation level of both Cuttings and Embankments shall be as shown on the Cross Sections, Sheet 2, namely—6 inches higher at the centre than at the sides.

The quantities in each Excavation and Embankment are marked upon the Longitudinal Section, Sheet 2, and every care has been taken to ensure their accuracy. Contractors must however examine the ground previous to tendering for the work, and satisfy themselves on this point, as well as of the accuracy of the lengths, depths, and quantities, marked upon the several Sheets, and of the nature of all the Cuttings, for when a tender has been accepted, no claim for extra work will be allowed for any real or supposed inaccuracy, as the Contractor shall be bound to construct the Railway so that the gradients at the formation level shall be agreeable to the gradients marked on the Section, Sheet 2, with the breadth and side slopes hereinafter specified, and accurately coincide in direction with the curves and straight portions drawn and marked in red on the Ground Plan, Sheet No. 1.

The Cuttings shall be 22 feet broad at formation level, with side slopes of 1 horizontal to 1 perpendicular, and the breadth of Embankments 18 feet at the same level, with side slopes of 1 and 1-2 horizontal to 1 perpendicular, except the slopes of Embankment No. 1, composed entirely of loose rock, which shall have a slope on the sea side of 1 and 1-2 horizontal to 1 perpendicular, and on the shore side of 1 horizontal to 1 perpendicular; and especial care must be observed in forming the slopes of this Embankment to these inclinations. The parts of this Embankment upon which this Bridge is to be erected, shall be carefully formed of large stones up to low water level, and the openings shall then be filled in with smaller stones, so as to bring the whole mass upon which the bridge is to stand to a uniform surface previous to laying the foundation stones.

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Embankments are to be formed from the material taken out of the excavations on the line so far as they go, and the deficiency shall be made up by loose rock, procured and deposited at the Contractor's risk and expense; but no material taken out of any excavation on the line of Road, except it be rock, shall form part of the slopes of No. 1, Embankment.

The Contractor, when required by the Engineer, shallcut, on the high side of slopes of Cuttings and Embankments, a side ditch of the form and dimensions shewn on the Cross Sections, Sheet 2, inclining towards the level courses, and drains, so as to convey the water into the same, and thereby prevent its washing away the slopes or injuring the roadway.

At the points where diversions of water courses shall be made, the ancient beds thereof are to be stopped at the upper end, as the Engineer shall direct.

Whenever in cutting through a brook or drain, the level of the Railway, or of the small ditches on the sides of the Railway, shall be lower than such brook or drain, then, in order that the water may not flow upon the Railway, or by the sides thereof, a level shall be brought up to the lower side of the line or track, of such a depth, that the water may flow freely by means of a drain under the Railway; or the said brook shall be diverted in its course, in either case, as the Engineer shall direct.

The Contractor shall be bound to chop down and clear away all Trees standing or lying on the ground set off for the Railway.

All Timber used in bridging shall be of well seasoned Pine, free from defect of every kind, and the planking shall be of Hemlock, 3 inches thick, well spiked down to the Beams with six inch spikes.

The foundation stones in all Mason work shall project 6 inches on each side of the wall, and no stone shall have an area less than 9 superficial feet, nor be less than 6 inches in depth. If considered necessary to lay a frame work of timber under the foundation stones, the Contractor shall do so in the manner to be directed by the Engineer.

The Walls or Abutments and Wing Walls, shall be of the dimensions shown in the Drawings, Sheet 3, and shall be built of Rubble Masonary, laid in Hydraulic lime. This work shall consist of dressed stones, placed on their natural bed; no stone to have less than three superficial feet, and to be laid so as to breek bond, and each course tied together by headers three feet six inches by two feet, and not more than six feet apart.

After the profile of the natural surface has been reduced to the gradients and inclinations hereinbefore specified and as marked upon the Longitudinal and Cross Section: the Contractor must then provide and spread the permanent road with ballast to the creadth of 14 feet and depth of 1 foot; the ballast to consist of clean gravel or stone, broken so that each piece shall pass each way through a ring 2 inches in diameter.

There is included in this Contract a deviation of the Windsor Road, as shown on Plan and Section.

In making this Road alteration, the Contractor shall take care that neither it nor the Railway operations shall impede or in any way intefere with the Road traffic, as for all such damage or inteference he shall be held responsible.

The new Roadway is to be excavated and embanked, so as to be 22 feet 6 inches wide at formation level, with side slopes of 1 horizontal to 1 perpendicular, and brought to the grades shown on the section,—it is to be rounded off, so as to admit of proper drainage, and covered for the breath of 18 feet and depth of 9 inches, with clean gravel.

The Contractor must provide all nuterials and workmanship, of the best description, at his own expense, necessary for carrying on and completing the work.

The whole work herein specified shall be completed on or before the Fifteenth day of December, 1854, under a penalty of Ten Pounds perday afterwards,—to be retained by the Commissioners from the prices agreed upon.

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enth day retained Pay Bills shall be made up and payments made monthly, or fortnightly, in the discretion of the Commissioners, according to the Schedule of Prices hereto attached, for work completed, on Certificates being granted by the Chief Engineer; less ten per cent. to remain in the Commissioners' hands until the Chief Engineer has certified that the Contracts are completed in a workmanlike manner, and to his entire satisfaction.

Should the Works not be carried on at such a rate, as, in the Engineer's opinion, to insure their completion, within the specified time, the Commissioners reserve to themselves power, on three days notice given, at any time, to take the whole or any portions of the work into their own hands, and complete the same at the Contractor's expense.

The Commissioners reserve to themselves the right of making alterations at any time, either in the location, curvatures, gradients, or nature of the works contracted for, and of requiring extra operations of any kind whatever, either in the making, draining, or finishing of the works contracted for; but such alterations, or any additional labour, shall in no way affect contracts entered into farther than that the same shall be paid for as extras, at like rates as other work contracted for; and they reserve a like right to withdraw any portion of the work contracted for, and prevent its being performed, and thereupon to make a corresponding deduction in payment.

The whole of the foregoing to be executed in a good workmanlike manner, and to the satisfaction of the Chief Engineer for the time being.

Should any dispute arise as to the true meaning and intent of this specification, the same shall be referred to the Chief Engineer for the time being, whose decision shall be binding on both parties.

The Drawings referred to in this Specification are:

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2nd.—Longitudinal section, Cross section, marked	ctions :	and se	etion (of Roa	d altera- }	Sheet 2
3rd.—Detailed drawings, marked						Sheet 3

Signed by "J. R. Forman," marked "approved by the Governor in Council," and deposited in the Railway Office.

JOSEPH HOWE, Chairman.

Nova-Scotia Railway Office, September 8, 1854.

