

Superstructure.—This consists of a light truss 80 feet span, supported at four intermediate points by queen posts and arch braces, which are fitted inside and outside of each truss, and bolted to the top and bottom chord at each intersection. The truss is to be 7 feet 8 inches high, and built with a camber of 2 feet in the middle. The top chord is to be 8 by 8 inches, and bottom 8 by 18 inches. The length of each panel 7 feet 6 inches, diagonal braces 6 by 8 inches, and tie rods 1½ inches diameter. The tie rods pass through the bottom chord, and carry a swing girt 7 by 12 inches, on which the longitudinal stringers, 6 by 8 inches, and the three inch plank flooring, rest. The arch braces of the queen post truss are each 6 by 12 inches at the bottom and 6 by 10 inches at the top. The queen posts are 6 by 11 inches, and the straining beams 6 by 18 inches; a cap 9 by 12 inches connecting the top of each pair of queen posts. The whole is to be framed out of sawn timber as it comes from the mill, the joints only planed and squared, and the whole painted with three coats of mineral paint.

EARTHWORK.

West of Saint John River.—From Broadway to the western abutment of the Bridge, the Road is to be 875 feet long and 26 feet wide. The inclination for 300 feet from the Bridge is to be 1 in 10, and an average of 1 in 20 for the remainder of the distance, no where exceeding a ratio of 1 in 14. The crown of the middle is to be 12 inches, and the slopes in the cutting to be 1½ by 1.

Between the Saint John and Little River Bridges.—The Road to be 26 feet wide, with 12 inch crown in the middle, and slopes of 1½ to 1, the distance is about 750 feet, and the grades according to the annexed profile.

The whole of the work is to be executed in a substantial and workmanlike manner, with the best materials that can be procured; and it is distinctly understood, that no advantage is to be taken by the Contractor, or any one in his employ, of any omission either in the plans or specifications; but that the whole is to be executed and completed in good faith, and in accordance with the intent and meaning of such specification, comprehending whatever may be necessary to complete the work, though not particularly mentioned.

Witness—ASA COY.

JOSEPH TOMLINSON.
W. H. STEEVES, *Chief Com'r.*

BILL OF MATERIALS IN SUPERSTRUCTURE.

GRAND FALLS BRIDGE.

BILL OF TIMBER FOR SPAN OF 190 FEET.

Pieces.	Description.	Length, Ft.	Inches.	Inches.	Feet, B.M.
2	Bottom Chords,	200	10	10	3,334
2	Do.	200	10	8	2,733
2	Top Chords,	200	7	12	2,800
2	Do.	200	9	8	2,400
144	Braces,	7	5	8	3,360
8	Posts,	6	8	12	384
8	Caps, (Hacmatac,)	23	13	7	1,395
27	Girts, do.	17	10	6	2,295
4	Posts,	21	7	7	343
4	Do.	20	8	8	427
4	Do.	16	7	7	261
4	Do.	10	"	"	164
32	Corner Braces,	7½	5	5	500
16	Braces,	22	"	"	733
18	Lateral Braces,	24	5	6	1,080
12	Hacmatac Plank,	200	9	4	7,200
8	Pine do.	200	9	3	3,600
					33,009