

CHAPTER II.

GENERAL SPECIFICATIONS.

THIS chapter, at first thought, may appear out of place ; for it is really a *résumé* of the whole subject of iron highway-bridge designing. It is placed here in order to be of easy reference.

Students, and those unacquainted with bridge designing, are advised to omit these specifications, and to return to them after having read through Chapter XIII.

Classification. — Highway-bridges may be divided into three classes ; viz., Class A, which includes those for cities and their suburbs that are subjected to the *continued* application of heavy loads ; Class B, which includes those for cities and their suburbs, or manufacturing districts, that are subjected to the *occasional* application of heavy loads ; and Class C, which includes those for country roads, where the traffic is lighter.

Live Load. — The live loads for bridges of the different classes are to be taken from the following table :—

SPAN IN FEET.	MOVING LOAD PER SQUARE FOOT OF FLOOR.	
	Classes A and B.	Class C.
0 to 50	100 pounds	80 pounds
50 to 150	90 pounds	80 pounds
150 to 200	80 pounds	70 pounds
200 to 300	70 pounds	60 pounds
300 to 400	60 pounds	50 pounds

The live loads for joists, floor beams, beam hangers, and hip verticals, are to be one hundred (100) pounds per square foot of floor for bridges of Classes A and B, and eighty (80) pounds per