

DESIGN

FOR A

RAILROAD STATION

BY

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THESIS

. FOR .

DEGREE OF BACHELOR OF SCIENCE

. IN .

ARCHITECTURE.

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The problem has been worked out to meet the requirements of a passenger station at Champaign, Illinois. The site selected is bounded by Main, Chestnut and Oak streets and University avenue. This gives the station a position easily accessible from the business district of Champaign, and to the street-car line leading to Urbana, Illinois.

For information concerning the requirements of such a station, I am indebted to Professor Pence and the Illinois Central officials at Champaign. The possible growth of the "Twin Cities" and the corresponding increase in the business of the railroad were taken into consideration in making the design.

The head-house is 189 feet long by 62 feet wide, and will be three stories high including the basement. On the ground floor will be a large general waiting room, accessible through three large entrances in front, and through two wide corridors leading from it to entrances on the sides. Opening off this general waiting room are the ticket and telegraph offices, ladies' waiting room, smoking room and dining room. The other rooms on this floor are the baggage room, express office, station agent's office, check room, serving room, lunch room, private dining room, barber shop and the toilet rooms.

On the second floor are the offices of the railroad company, which include those for the Despatcher, Chief Despatcher, Train Master, Division Superintendent, Bridge Master,

Assistant Engineer of Maintenance of Ways, the Supervisor, and the Superintendent of Water Service. Besides the offices, on the second floor are the Assistant Engineer's drafting room, investigation room, trainmen's room and the battery room.. The basement contains the kitchen, pantry, boiler room and the store-rooms. The kitchen is connected with the serving room by means of an elevator and dumbwaiters.

The train shed is designed to accomodate four tracks, which are grouped in pairs. The structure is 238 feet long by 102 feet wide and is supported by eight trusses of single span. The two end trusses rest on massive piers, but the others extend to the ground and have their bases connected underground by tie-rods.

The style of architecture employed in this station is the Italian Renaissance. The materials used are stone, brick and iron.