ending points on each sheet; the degree and central angle of curves; and joint tracks and ownership thereof.

(*g*) *Improvements.*—Show: Station and office buildings, shops, engine houses, fuel stations, water stations, etc. (owned by the carrier), in general outline where it can be done clearly; bridges, trestles, culverts, tunnels, retaining walls, cattle guards, fences, mileposts, and other signposts as they exist on the ground; signals of all kinds and other general railway structures owned by the carrier, with general data as to dimensions; and, where practicable, all pipe lines, sewers, conduits, paving, curbing, or similar works located on the right of way of the carrier or adjoining, and owned by the carrier in whole or in part; all telegraph, telephone, and power lines owned in whole or in part by the carrier; and station and plus to all important structures which are outlined above.

(*h*) *Topographical features.*—Show: Rivers, creeks, watercourses, highway crossings, etc. Give names, where known; and when highway crossings are over or under grade, so state.

16. On Station Maps.

The purpose of the larger-scale Station Maps is to permit the showing of improvements in more detail than is practicable on the Right-of-Way and Track Map.

Where the station property to be mapped is extensive and complicated, it shall be delineated on two separate maps.

(1) Shall show all data relating to ownership of lands.

(2) Shall show all tracks and structures and external land boundaries.

Where practicable, without sacrificing the clearness of the map, the two may be combined into one map.

Show: All information set forth under items (*a*) to (*h*), inclusive, of section No. 15, when inside of Station Map limits, and all other surface and subsurface improvements owned by the carrier not heretofore noted, as far as may be practicable.

Tracks shall be represented on Station Maps by center lines only, except that where maps are on scale of 1 inch equals 50 feet double lines may be used.

17. On Profile.

The following data shall be placed on all Profiles:

(*a*) *Roadway.*—Show: The vertical projection of the original ground surface on center line of railway; present grade line (top of the roadbed subgrade); rates of grade; elevations (sea level datum) at all points of change of grade, at each end of sheets and where profile is "broken," at 50-foot (scale) intervals; and the station and plus to points of change of grade and station numbers at each 1,000-foot (scale) interval near lower border of sheet.

(*b*) *Structures.*—Show: Bridges, trestles, culverts, retaining walls, tunnels, and other roadway structures in vertical projection; stating the kind and general dimensions by figures; average depth of penetration of piling in each bent of trestles, or under other structures by vertical projection; character of and depth to foundation bed of masonry structures, by vertical projection; reference to railway file numbers of the detail standard or special plans by which the structures were built; existing mileposts; and the station and plus of each of the above indicated improvements.

(*c*) *Quantities.*—Profiles of railways built after the date of issue of these specifications shall show for each mile a summary of construction quantities below subgrade, including roadway, bridges, and culverts. Profiles of railways built before the issue of these specifications may show at the option of the carrier similar quantities in the same summary form.

The summary of quantities shall be in detail according to the standard classification of units used by each carrier.

(*d*) *Alignment and track.*—Show: On the lower 2½ by 55 inch space of the profile sheet the center line of main track or tracks with alignment notes and the curves indicated conventionally; other data such as passing tracks, depot buildings, water and fuel stations, highway crossings, railway crossings, and important watercourses that will assist in interpreting the profile.

The carriers have the option, in lieu of the above, to reproduce in a developed view, all the information shown on the right-of-way and track map, and shall use a transverse scale for this view of 1 inch equals 200 feet.

18. Illustrative Drawings.

Attached to and made a part of these specifications are illustrative copies of the maps and profile herein described.

○