



This interesting and inviting water hazard is part of the Arrowhead GC, fee course in the Chicago district, where Parker Nail is pro and managing director. The course was formerly a private club.

ferring to previous record before or while doing, so as to get a true picture or record of the condition.

#### Important Facts From Construction Data

Construction records are records of these methods of any construction work. They should include an outline plan and profiles of the work done. On the back of the plan or on an attached sheet should be notes on the amount of soil, tile, etc., used, and on special conditions such as excess rainfall during construction, and finally of the amount of labor, etc., used to complete the work. The outline plan should show tile drains, pipes or special areas treated differently from the area as a whole.

Next are the factor records to be considered. I shall list all of them and then treat each group separately. They are as follows:

- a. Disease—fungicide treatments.
- b. Topdressing—fertilizer, spiking, watering.
- c. Amount of clippings.
- d. Weather (precipitation, temperatures, humidity).
- e. Mechanical analysis — pH, and nutrient tests.

Groups a and b should be kept on cards, one card being used for each factor, but only one for all areas. For instance, in keeping a disease record, on one card you would have the date the disease occurred, the name of the disease, the greens affected, and the extent and location affected, and any other notes of peculiar conditions that you might want to keep. Under fertilizer, topdressing, spiking, watering, and fungicide treatments you

would have the date, amount, kind, method of treatment, and a note of any greens treated differently from the rest.

Group c is a record of the amount of clippings. This will probably be of doubtful value to many greenkeepers on first consideration. When you stop to think that the first thing you generally ask your greensmen is "how much grass are you getting?" it must be of some value. If it is not, why do you follow it so closely?

Group d—Weather records should be kept daily. They are of great value in predicting attacks of disease, amount of watering to do, etc.

Group e—The mechanical analysis of soil, pH and nutrient tests of soil could probably be kept most easily on one sheet for all areas. They should be made at regular periods. The mechanical analysis probably will not be made more than once every two years or more. The pH and nutrient tests should be made once or twice a year as they change more rapidly than the mechanical analysis. They always should be made at the same season of the year.

#### Keep Miscellaneous Records Up to Date

The miscellaneous records probably include the inventory and blue prints of the course, water lines and rains. The inventory should be taken at least once a year, and should include all equipment and supplies and materials. It should be kept up to date from the material purchase orders. It is of value in making out the budget and in promptly renewing exhausted supplies and equipment.

The blue prints of the course, water-lines and tiles should be kept up to date, each change in the course being promptly