

Mobile units: Northwood equips carts with divot bottles

By TERRY BUCHEN

DALLAS, Texas — The Northwood Club is under the care of new superintendent Scott Ebers, which has a caddie program along with electric golf cars for their members and guests to use.

"Each of our golf cars has one soil divot bottle, instead of the normal two, because of other equipment mounted on each car," Ebers said. "As golfers play the par-3 9th hole, or the 10th hole, they can exchange an empty soil divot bottle with a filled one simply by picking one up on the back of the tee benches on these two holes."

The bottle holders and bottles were purchased from the golf car distributor and then bolted to the benches, Ebers said.

"The soil bottle holders blend in nicely with the benches because of their black color," he said. "Because we do not oversee the golf



Soil and seed bottles loaded and ready.

Terry Buchen photo

course with Bermudagrass for winter time golf, we do not add any seed to the soil bottles. Each bottle holds straight sand, the same sand that was used in each of the teeing grounds construction, which



ON THE GREEN

is also used on fairway and rough divots as well.

"Each soil bottle is filled each morning and then checked midday and in the afternoon, as needed," Ebers added.

A marriage made in golf

Continued from previous page

vide for clean fill material are other design influences that impact maintenance.

Superintendents should advise designers on any areas that may complicate maintenance or require hand work. Many times such problems can be addressed during earthmoving.

GREENS DIRECTLY DICTATE MAINTENANCE

Greens are the most intensively maintained part of a course, and their design directly dictates future maintenance. Greens design should first produce good surface and subsurface drainage. My personal approach is to design greens that surface-drain in three or four different directions, not just one.

Secondly, we always install tile on 15- to 18-foot centers and backfill them with 1/4-inch pea stone under putting surfaces and bunkers. Finally, we try to stay around 1-1/2 percent slopes within probable hole locations.

The type of root zone used in greens should be based on water-quality analysis of the proposed irrigation supply, the turfgrass to be used and the microclimate of the green or golf course. Selecting a green construction method by any other way ignores the design/maintenance relationship.

Green surrounds should be designed to provide room to turn greensmowers, spread out foot traffic, permit collar mowing with a triplex machine, reduce the amount of sand blasted out onto the green, and combat localized dry spots on putting surfaces caused by super-heated sand faces. If mostly riding machine maintenance is expected, then 12-foot collars are needed. But if anticipated budgets allow for hand maintenance, 3-, or 4-foot collars will work.

Irrigation systems can be designed to deal with such site influences as wind, soils, slopes, microclimate and turfgrass types. Individual head control on greens is considered a minimum so that each section of the green can be individually irrigated; and often there are additional heads to water the green surrounds if they have different requirements. Quick couplers for hand-watering are always installed and their location, as well as the type of control system and location, should be done in consultation with the superintendent.

Greens should be designed to provide adequate cupping area. Our personal goal is 15 to 18 separate and distinct hole locations. This spreads out foot traffic and adds interest to the course. We like

to have four or five of these cupping areas to be very demanding in shot value, and the remainder very forgiving of errors on approach shots.

TEES AND BUNKERS

On tees, the design intent is to provide not only strategy and interest through multiple settings, but to enhance maintenance by providing surface drainage, adequate space to spread out traffic, insuring good air drainage across the tee, and providing an appropriate irrigation system.

The rule of thumb for adequate size is 150 square feet for every 1,000 rounds played on wood shot holes. That is, for 20,000 rounds a year, an adequate tee size for par-4s and par-5s is 150 x 20, or 3,000 square feet. The rule on the iron shot holes (par-3s) is 200 square feet per 1,000 rounds of golf played.

Designer and superintendent will have many discussions on bunker style, shape, size, slope and sand size. Some favor flat sand because it is easy to rake, and in their minds is the most natural form, speeds up play, etc.

Others, like myself, think of bunkers as message boards meant to communicate certain information to the golfer, and as such we prefer splash bunkers and or high sand faces. My bunkers are not easy to care for. In fact, only 75 to 80 percent of each bunker can be raked with a power sandtrap rake. The rest is hand labor.

It is the client's decision between ease of maintenance or flash. However, no matter what bunker type is used, there are some general design techniques and specifications related to maintenance.

First, the bunker should be built to reject surface water from running into it, especially on sand faces, to reduce water erosion. This means that all edges of the bunkers should be at least a couple of inches above grade.

Second, the bunker should be drained either by tile or French drain. Also, the bunker bottom should be perfectly concave or bowl-shaped, smooth and compacted before sand is installed. Sand depth should be at least 6 inches — and 8 inches is preferred. The sand should be of angular shape and in the range of .25 millimeter to 1 millimeter, favoring the larger particles in windy areas. Color doesn't matter.

It is strongly recommended that grass bunker faces be treated with growth regulators, or planted to slow-growing grasses to reduce the need for edging and mowing.

Next month: The single most important specification that influences maintenance: selection of the turfgrasses.

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