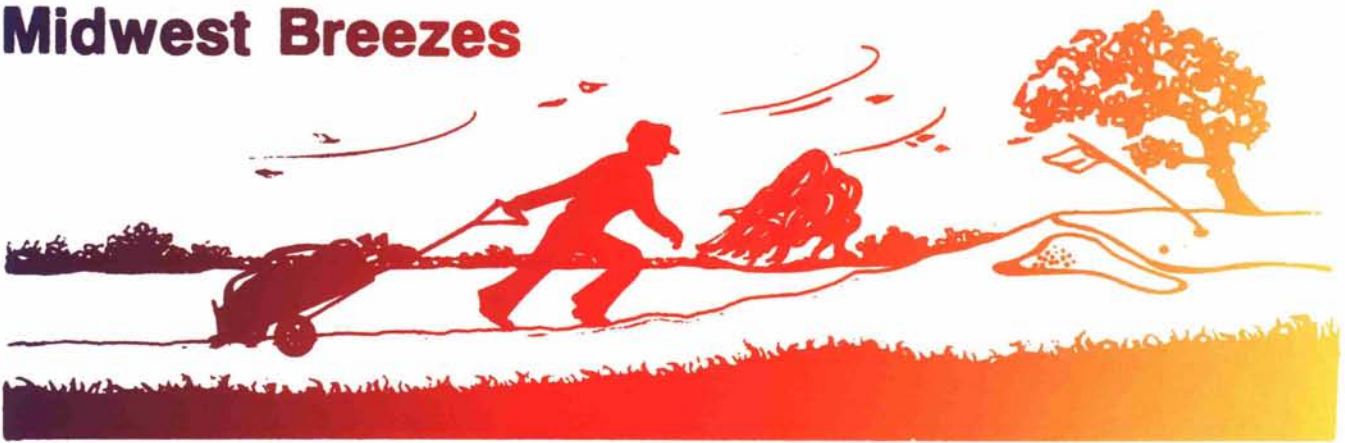


Midwest Breezes



New Irrigation and April Showers, Bring Deerpath May Flowers

When the Director of Parks for the city of Lake Forest asked Craig Joscelyn what his biggest need was on the golf course, Craig indicated that the club was due for a new irrigation system.

Craig was operating with one of the oldest functioning automated systems in Chicago: a hydraulically-controlled system originally installed in 1968. In the process of obtaining funding for new irrigation, two additional upgrades were planned for Deerpath.

“We had been receiving negative feedback about the bunkers in our golfer surveys. After rainfall the bunkers would hold water and the sand texture was inconsistent throughout the golf course,” said Craig. “Another issue of concern was surface drainage. There has been a lot of development to the north and west of the golf course, and

tremendous volumes of water are moving across the property after the rains.”

During the permitting and funding stages of the project, Craig was the point-man in bringing multiple agencies and contractors together including the Illinois EPA, Bleck Engineering, Applied Ecological Sciences, Army Corps of Engineers, The Friends of the Chicago River and The Lake County Stormwater Management Commission – all were involved.

After Labor Day 2005, the project began. A new Rain-bird system was installed by Midwest Irrigation, the same company which installed the original water system in 1968.

All of the 55 bunkers on the golf course were remodeled, and eight more fairway bunkers were added.

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The 175 yard par 3, 5th hole at Deerpath Golf Course. Large Cottonwood trees encroaching on the left side of the hole and the Skokie River in foreground.



5th hole as construction begins and cottonwoods are absent. Pond excavation and weir structure are underway.

Todd Quitno, of Lohmann Golf Designs, designed the new bunkering bringing the golf course up-to-date with contemporary distances and playing conditions.

A water management system was built by Ryan Incorporated Central, beginning with the construction of a wetlands on the western edge of the golf course, which captures the surface run-off as it enters the club property. The wetlands are designed to filter the surface run-off before it passes into a system of ponds, which eventually overflow through a stone weir into the River Canal on the

eastern edge of the golf course.

As the work progressed, the golf course remained open to normal rounds of play, and the staff received few complaints from the golfing public.

The two biggest things which Craig valued through the project were the dependability of his staff to manage things while he was absorbed in the details of the project, and also the importance of effective communication, especially during the planning stages as everybody was involved up front.



View from green to tee.



Course stays open throughout whole project.
Golfers and machinery mingling.



5th hole. Moving along.



Beautifying the weir with ledge rock.



All that remains is pond fill and grow in.

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Digging Away at the Links of Carillon Golf Club

For the past three seasons Superintendent Mark Thibault and his staff have been performing a master bunker renovation at The Links at Carillon Golf Club in Plainfield. The 27-hole golf complex had 79 large bunkers, most with high flashing, contaminated sand, and little or no drainage.

In his original design, Golf Course Architect Greg Martin strategically placed the bunkers with the concept of needing large bunkers to offset the lack of trees and houses. Over the past 15 years, the once open farmland of Plainfield has been developed with a retirement community and hundreds of trees have been installed.

Visually, the large bunkers were no longer needed and the increasing bunker maintenance cost has become a nightmare. Daily maintenance requires three trap rakes for three to four hours each. With the rising cost of fuel and labor coupled with the poor playing conditions, a bunker renovation was needed.

Thibault proposed an in-house renovation plan using skid loaders, dump trucks, shovels and only the core maintenance staff. After much discussion with the owners and the director of golf, the decision was made to begin bunker renovation during the off-season months. This would allow minimal interference during the peak golf season and normal golf course maintenance to be performed. If this plan was to succeed, it had to be cost effective without sacrificing current conditions.

In order to control cost and maximize this opportunity Thibault decided to first reuse the original bunker mix to expand other tee surfaces on the par 3 holes and to renovate the first tee on the white course. Scott also decided to harvest out-of-play bluegrass rough for sod. The sod, in turn, would be used on the newly created slopes around the expanded tees. The areas vacant of turf in the rough would then be converted to a links style fescue mix, and further increase savings of labor and mowing on the property.

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Bunkers on the Blue Course No 6 Green ready for sand.



Laying out the bunkers on the White Course, No 6 Green.



Bunker complex completed on the Blue Course adjacent to the 7th Fairway.



Changing the shape of the bunkering around the 8th Green on the Blue Course.

The last resource Thibault tapped, was contacting local developments for clay and topsoil. Luckily, in the fall of 2003, a chain restaurant was starting construction across from the entrance to Carillon Drive. By working with the contractor, Thibault was able to obtain 3,000 cubic yards of black topsoil delivered on-site for a very minimal cost to the club.

The Links at Carillon still needed to find a large source of clay in order to maximize the topsoil as a top layer and not fill. Thibault contacted another local developer requesting to remove a large amount of clay from a nearby site. The developer was happy to allow Thibault to remove the clay for free instead of paying a contractor to do so.

In addition, Thibault decided to reuse old greens covers to line the bottom of the newly shaped flat-bottom bunkers to aid in slowing future contamination. The only major cost to the Links at Carillon would be the new sand and labor.

Before the renovation began, Thibault decided on one style for the bunker design based on a couple of keys principles. He picked a flat-bottom style to eliminate the need to push sand after a heavy rain and to help prevent sand from blowing out of the bunker. Overall downsizing was the key to eliminating labor, but also every slope was designed to be easily cut with a rotary motor and minimize handwork.

Working with the Director of Golf, Jim Long, Thibault was given the freedom to design each bunker and express a little of his artistic ability in golf course architecture. Thibault recalled on past experiences as Assistant Superintendent during the construction of Seven Bridges Golf Club in 1990 along with some bunker renovation projects at Ruffled Feathers Golf Club to aid in the design process.

Over the past three months, the good weather has allowed Thibault and his staff to really “dig in” and currently there are eight to ten bunkers under renovation. Some bunkers have been eliminated and others downsized, but in most cases one large bunker is now two or three smaller flat-bottom bunkers.

It is difficult to figure the labor hours saved to date, and over the long run many dollars will be saved. Flooded bunkers will no longer have to be pumped, there will be a large reduction in the maintenance of the sand surfaces, hand mowing around bunker complexes will be nearly eliminated and the additional native habitats created in out of play areas will all contribute to cost savings. To date the project has been a complete success. Approaching the end of the third year in a very tedious process, Thibault and his hardworking staff are on pace to have approximately 50 percent of the bunkers completed.

—Scott White
Assistant Golf Course Superintendent
The Links of Carillon Golf Club



Dirt~n~Turf
Consulting, Inc.

David Marquardt - Consulting Agronomist
630-251-1511 Dave@dirty-n-turf.com

www.dirt-n-turf.com

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