

# Golf Course Trades

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Mackenzie Collaborations**

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Evergreen Turf Covers**

**Superintendent Brian Boyer:  
A Water-Saving Hero**

**Standard Golf Company:  
Around the Course**

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**2013 Toro Grounds Master 4300-D**  
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Canopy; Cool Top  
711 Hours



**2012 Toro Reel Master 5510**  
8-blade DPA Reel; ROPS; 35.5 Hp;  
4-cylinder Kubota diesel engine  
2574 Hours  
**\$17,000**



**2013 Toro Grounds Master 3500G**  
Gas; 3WD; ROPS  
195 Hours



**2014 Toro Reel Master 3100D Sidewinder**  
3WD; 32-inch 8-blade DPA reels;  
ROPS; Lights  
1807 Hours



**2013 Jacobsen GP400 Gas**  
11-Blade Reels; ROPS; Lights  
1717 Hours



**2012 Toro Greens Master 3150-Q**  
11-Blade DPA Reels; Groomers;  
Lights; ROPS; Grass Catchers  
1644 Hours



**2015 Salsco Roller w/Trailer**  
11HP; Brushes; LED Light Kit  
1351 Hours



**2015 Toro Versa Vac Sweeper**  
Vacuum PTO Driven  
6.5 cu yd capacity;  
Rubber Finger Deck;  
Handheld Hose



**2014 Cushman Turf Truckster Gas**  
4- Post ROPS; Steel Cargo Bed;  
Auto Transmission; Aux Hydro  
1455 Hours



**2012 John Deere ProGator 2020A**  
Gas; ROPS; Canopy; Windshield;  
Steel Cargo Bed  
1893 Hours



**2011 John Deere ProGator**  
2030A Diesel  
Aux Hydro; ROPS  
1975 Hours



**2010/13 John Deere TX Turf Gator**  
Electric Bed Lift  
1443-1929 Hours  
**5-Available**



**2015 Toro Workman HDX w/ Sprayer**  
200 Gallon Tank;  
Electric Hose Reel; ROPS  
1557 Hours



**2014 Toro Sandpro 5040**  
3WD; Hydro Rear Rakes;  
Spring Leaf Rakes  
1538 Hours



**2000 Foley AccuMaster 650**  
Automatic Reel Grinder



**2006 Bernhard Anglemaster**  
3000 Bedknife Grinder





2014 Toro 3240 GM TriFlex Diesel 1600 Hours Great Shape **Call for Price** Have 3



2015 Toro 3320 TriFlex (Gas) 1400 Hours Have 2 **\$18,000/ea**



2012 Toro 3150 11 Blade w/Groomers **Call for Price** (Have 2)



2015 Toro 3300 TriFlex (Gas) 1800 Hours Have 10 **\$16,000 ea**



2014 John Deere 2500B (Have 5) 2 Diesel/3 Gas **Call For Price**



2011 Jacobsen Eclipse 322 Gas...Low Hours...Great Shape! **Call for pricing**



2017 Jacobsen 322 Eclipse 11 Blade **Call for Price**



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## MISCELLANEOUS

2014 Toro 4300 Groundsmaster Great Shape!  
2015 Toro 5900 Groundsmaster 2100 Hrs. \$39,000  
2015 Toro 4000 Groundsmaster 1900 Hrs. \$33,000  
2015 Toro ProCore 688 Great Shape! \$18,000  
2013 Jacobsen G-Plex 400 Low Hours. \$8,500  
2014 Jacobsen GKIV Plus 11 Blade 600 Hours  
2014 Toro 3420 Greensmower (Have 5)  
2014 John Deere 4044M Tractor w/ Bucket, Forklift, & Backhoe  
2014 John Deere TX Turf (Gas)  
2014 Tru Turf Rollers (Have 3)



2014 John Deere 8700 4WD **Call for Price**



2017 Jacobsen GK IV w/ Groomer **Call for price**



2017 Turfco Blower Low, low Hours! **\$7,500**



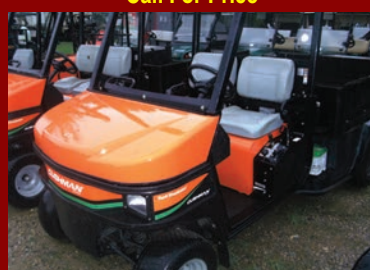
2015 Southco Roller (have 2) Extra set of Batteries **Call For Price**



2017 Jacobsen 322 Eclipse 15 Blade **Call For Price**



2005 Toro 5200 Pro Sweep **\$5,200**



2013 Cushman Turf Truckster Have 2 1200 Hrs **\$14,000/ea**



2005 Foley 630 Grinder Great Shape **\$10,000**



2013 Toro 3150 11 Blade DPA Heads Low Hours **\$16,000**



2014 Toro 3150 11 Blade DPA



2013 Toro 3150 11 Blade **\$14,000**



2014 Cushman Truckster 1600 Hours **Call for price**



2011 Toro 3040 Trap Rake 1500 Hours **\$7,500**



2014 Lely Spreader



2015 Beverage Cart (Gas) **Call for Price**

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2013 Jacobsen LF570 2WD , Low/Med Hours (Have 4) **Call for Price**



2017 Jacobsen LF570 2WD Low Hours (Have 2) **Call for Price**



2013 Toro 5510 CrossTrax (Have 3) **Call for Price**



2010 Jacobsen LF3400 1167 Hours **Call for Price**



2013 Jacobsen LF510 2WD 700 & 1200 Hours (Have 2) **Call for Price**



2012 Toro 5410 1400 Hours **\$18,000 (Have 2)**



2011 John Deere 8500 E/Cut 4WD **Call for Price**



2015 Toro 3550 1400 Hrs **Call for Price**



2013 Toro 4500D **Call for Price**



2017 Jacobsen AR522 800 Hours **Call for Price**



2016 Toro 5510 2WD 1200 Hours (Demo) **Call for Price**



2013 Jacobsen AR3 (Have 3) 600 Hours & up **Call for Price**



2014 Toro 4500D 2200 Hours **Call for Price**



2014 John Deere 7400 Low Hours **Call for Price**



2014 Toro 3500 Groundsmaster (Have 5) **Call for Price**



2014 Toro 4700 2000 Hours (Have 4) **starting at \$38,000**



2014 John Deere 8800 (Have 2) Medium Hours **Call for Price**



2013 Toro 3280D 5' Deck 600 Hours **Call for Price**



2012 Toro 7210 Groundsmaster 6' Deck 1500 Hours **Call for Price**



2017 Ventrac 4500Z 200+ Hours **Call for Price**



2017 Jacobsen Truckster w/Dump Bed (Have 2) **Call for Price**



2017 Smithco Sprayer 200 Hours Like New! **Call for Price**



2016 Toro 1750 Sprayer **\$23,000**



2018 Branson Tractor w/ Bucket 20 Hours **Call for Price**



2017 Club Car 500 Hauler w/Dump Bed & windshield Low Hours **Call for Price**



2017 Smithco Super Star Trap Rake **Call for Price**



2015 Dakota 410 Topdresser Great Shape! **\$9,500**



2009 Toro 4000 Groundsmaster **\$17,000**



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# INDUSTRY DIRT

## Hazeltine National Golf Club Enters Long-Term Agreement With Toro



Hazeltine National Golf Club was originally designed by Robert Trent Jones and later renovated by Rees Jones prior to the 1991 U.S. Open. It's the only golf club in the country to host every premier championship offered by the USGA and PGA of America, and it's the only U.S. course that will have hosted the Ryder Cup twice.

"Hazeltine National Golf Club has built an impressive resume of championships while delivering a premier member experience," said Richard Olson, Toro's president and chief executive officer. "It's a testament to the entire Hazeltine team and the caliber of the course that they've been able to maintain and enhance over the years. We are truly honored that they have chosen Toro as their official equipment and tournament support partner."

The Toro Company and Toro distributor, MTI Distributing, have finalized an 11-year equipment and tournament support agreement with Hazeltine National Golf Club in Chaska, Minn. Leaders from Hazeltine National and Toro gathered at the course on April 26, 2019, for a ceremonial agreement signing.

The agreement extends Hazeltine National's partnership with Toro

and MTI Distributing through 2029, providing support for a number of important future events. The 2019 KPMG Women's PGA Championship, 2020 USGA Junior Amateur, 2024 USGA Amateur and 2028 Ryder Cup Matches will all take place at the course.

"This agreement is the next step in an ongoing relationship that started with Toro irrigation back when we

opened for play in 1962," said Chris Tritabaugh, superintendent at Hazeltine National. "We have always been committed to maintaining the highest standards for players, and our partnership with Toro and MTI Distributing will help us deliver on that commitment for a long time to come."

"For a championship course like Hazeltine, it's critical to have equipment and support you can depend on," said Tom Swain, president of MTI Distributing. "We understand that responsibility, and we are absolutely dedicated to making sure Hazeltine National has what they need to maintain the standard of excellence they're known for." MTI Distributing serves customers in North Dakota, South Dakota, Minnesota, Wisconsin, Iowa, Illinois and Missouri.

Details about Toro's full range of golf industry products are available at [toro.com](http://toro.com). For additional information about MTI Distributing, see [mtidistributing.com](http://mtidistributing.com), and to learn more about Hazeltine National Golf Club, please visit [www.hazeltinenational.com](http://www.hazeltinenational.com).





# Smooth Greens do not Happen by Accident



Smooth greens do not happen by accident. Good agronomic practices, equipment, weather, and turf type all play major roles in how well your putt rolls across a green.



is drug across the green to stand the turf up before being cut. It also helps to push sand into the turf canopy which is a desirable trait. It punches well above its weight and continues to impress.

On the weather side of the equation we tend to want to have relatively warm, dry days. Dry weather gets rid of unwanted moisture at the surface of the greens and allows the ball to roll quick and smooth. While dry weather forces us to work harder (hand watering), the condition allows us to more accurately manage the green's surface.

Turf type is also a major consideration for smooth greens. New turf varieties tend to be dense and upright which results in better ball roll. New courses and renovated ones generally have one or two varieties

On the agronomic side of the equation we regularly apply sand to the greens. This helps to manage thatch but also helps to fill-in imperfections on the green's surface. We also apply growth regulators to the greens. This helps to manage the different growth rates between the varying types of grass we have on our greens. The result ends up being less "bumpy" turf.

Having the right mix of equipment to manage the surface of a green is very important. While a good mower is obvious, attachments to the mowers can make a greens surface even better. A product that we have started using this year is the Turf Trainer. Developed by golf course superintendent and friend Rodney Hine. The Turf Trainer is basically a piece of artificial turf that

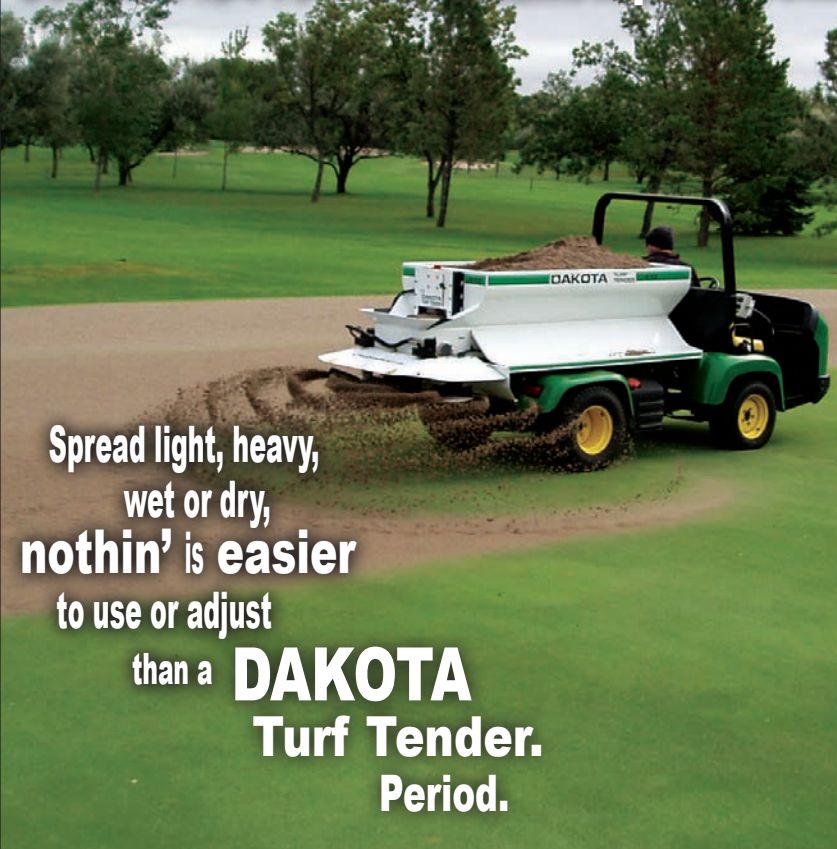


of turf on their greens, while older courses tend to have a mix which is the result of mutations and infestations of weeds such as Poa annua. Its very hard to make greens that have many different turf types to be consistent hence the use of growth regulators.

From the blog of Fred Gehrisch, Highland Falls Country Club <http://highlandfalls.blogspot.com/>

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# Oklahoma City Golf & Country Club, Birthplace of the Maxwell and Mackenzie Collaborations

By Jay Flemma



In our March 2015 issue we introduced our readership to Bill Coore and Ben Crenshaw's ingenious restoration of Perry Maxwell's Old Town Club in Winston-Salem, N.C. (<https://golfcoursetrades.com/old-town-club/>) Old Town, built in 1940, represents a high water mark in golf design because it brought an end not only to Maxwell's design career, but also the first Golden Age of Golf Course Architecture in America. It's an important milestone for both Maxwell and golf history.

This month we're going to examine another important and fascinating marker in Maxwell's career arc. Oklahoma City Golf & Country Club, opened in 1927 and host of the 1953 U.S. Amateur (won by Gene Littler) marks the first collaboration of Maxwell with Alister Mackenzie, a relationship that would ultimately give us Augusta National and Crystal Downs. So it raises some fascinating questions. In what ways did Mackenzie influence Maxwell? In what ways did Maxwell

influence Mackenzie? What did each bring to Oklahoma City Golf & Country Club? And what did they bring from OKGCC forward to designs they created afterwards?

"Before their collaboration even began, Mackenzie wrote Maxwell a letter praising his work and saying he was one of the most naturalistic architects he'd ever seen," explained golf architect Tripp Davis, who is overseeing the restoration and renovation project at OKGCC. "The thing that caught Mackenzie's eye about Maxwell was how naturalistic Maxwell's features were, and how his routings fit the land so perfectly. The golf courses Maxwell built really showcase the most interesting features, and make you hit strong golf shots to overcome the challenges posed by those features. And OKGCC, in particular, is on a great piece of property with lots of rolls, and the routing that they did together hits all the best parts of the property, and

it feels as though it's a natural extension of the land."

Davis is absolutely right. The out and back, asymmetrical routing of Oklahoma City is rich in character. Better still terrific horizontal sweeps to the fairway blend perfectly with all the vertical movement in the earth. And best of all Mackenzie helped bring Maxwell's green contouring and bunkering to an even higher level.

"I think greens and green settings were one area where Mackenzie had a great impact on Maxwell. The greens at OKGCC have lots of Mackenzie's grand, sweeping contours, constant movement," Davis said. "You see his grander scale in the size and the contouring not only here, but at Maxwell's designs going forward, like Southern Hills."

"What I love about the greens are the way Maxwell and Mackenzie made the both the internal contouring and the green complexes themselves fit the land so perfectly, while also building greens that feature rolls and tilts from back to front, but from front to back and side to side as well," added Head Superintendent Nathan Newmann, who came to OKGCC by way of Colonial Country Club. You'll recall Colonial not just as a long-time PGA Tour stop and 1941 U.S. Open venue, but also for being home to one of Maxwell's more recognizable stretches of golf, the Horrible Horseshoe: holes three, four, and five, a brutally long and well bunkered par-4-3-4 sequence.

"As you look at Maxwell courses from OKGCC going forward, you can tell it was the beginning of the second phase (or the end of the first phase of Maxwell's career, depending on how you want to define it,"

*Continued on page 13*



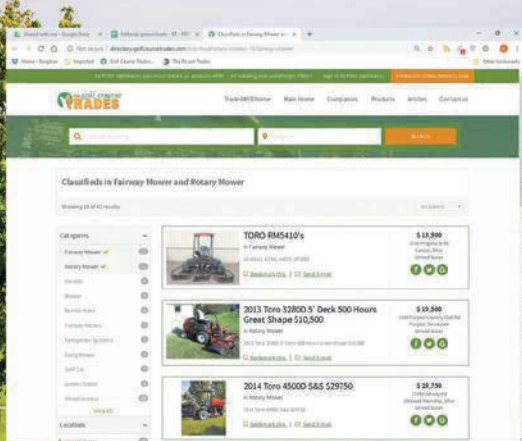


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2017 Steiner 450 With Mower 77 Hrs  
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2012 Jacobsen R311t  
\$22950



2012 Jacobsen AR 522  
from \$9000



2018 Toro 2120 wgm  
\$3000



2009 Toro 5700D 300 gallon sprayer  
\$13750



2016 Toro workman HDXD with cab  
\$19750 others available



2011 Toro 5900 only 1526 hrs  
\$45750



2013 Jacobsen LF 550 4 wheel drive 1132 hrs  
\$20950



2007 Toro pro-core 648  
\$14500



wireless \$4500



Planet Air HD50 Aerator Like New  
\$8500/trifecta \$15500



2013 Jacobsen LF550 w/505 hrs S&S  
\$18950



2011 Dakota 440 top-dresser with conv, new spinners  
\$20750



2016 Toro 4000D  
\$33950



2016 Steiner 440 diesel with toughcut deck 60 hrs  
\$22500



2013 Toro sand pro 3040 W/ REAR RAKES  
\$9500



2016 Toro procore 648 aerators  
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2012 Jacobsen 322 greensmower \$4500 and up-2012 Toro 5910 16 ft mower \$35750---Brand new Tycrop QP300 topdresser \$8850- ---2013 ClubCar Turf I \$4350-- 2011 Toro HDX workman 1370 hrs \$10500-- Jacobsen GA 24 Walk Behind Aerators \$3500--John Deere Walk Behind Aerators \$3000--Jacobsen V 62 Sweeper \$8500--Toro Prosweep 5200 \$4000-- 2015 John Deere 1550 rotary \$8250--John Deere 1435 rotary \$5995-- 2013 Toro HDX with 200 gallon sprayer \$15500--2012 Jacobsen R311T \$18750 - -- 2013 Jacobsen LF 550 4 wd 1123 hrs \$19950-- ---2014 Jacobsen LF550 504 hrs \$19950 ---Dakota 440 topdresser from \$16750

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NOW \$22,900**



2014 Toro GM3500-D with Side-Winder, Gold Certified, 1166 hours

**\$18,900**



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2010 GM3500-D with Side-Winder, Silver Certified, 1340 Hours

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**WAS \$15,900**



**NOW \$14,900**

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Service, Solid Unit

**\$7,500**



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3052 Hours, Bronze  
Service, Great Reel Life

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Newmann continued. "Colonial was finished in 1936, and you can see similarities between OKGCC and Colonial in how the dog legs are routed – always curving in awkward or demanding points – and how the green settings are similarly well protected by bunkers. Also, both courses feature severely rolling terrain. Nothing is flat. Everything rolls with the land."

What a formidable team, by the way. Davis and Newmann are a potent combination: they both blend a mastery of their craft at the highest level, and they each have a deep understanding of golf design strategies and how to best showcase those with proper maintenance and conditioning.

On the one hand you have Davis, originally from Georgia, but after playing golf for the Oklahoma Sooners and raising a family in Norman, he's now as dyed-in-the-wool Oklahoman as Will Rogers or Johnny Bench.

"Not a Sooner born, but a Sooner bred, and when I die I'll be Sooner dead. Go to heck, Tech!" he shouted joyfully. Davis is still basking on the glow of his highly celebrated restoration work at Engineer's Club, a former PGA Championship and U.S. Amateur venue. That's just the latest in a long string of wildly successful restorations of Golden Age clubs from across the country by his firm.

On the other hand you have Newmann, a young rising star in full ascension in superintendent's circles.

"Nathan may be a younger guy, but been around the world a good bit too. He was terrific at Colonial for a while he was an assistant, and then at Wichita Falls Country Club he was one of the first guys in the country to use a new bent grass called 007," Davis energetically noted. "The best thing about 007 in Texas and Oklahoma is its high heat tolerance. So Nathan's developed a reputation for having great greens everywhere he's been."

Together they are restoring and preserving as much of Maxwell and Mackenzie's as

possible. 14 greens will be enlarged back to their original sizes, restoring formerly lost pin placements, while four more will be enlarged to add more hole locations. Better still, it's not just 007 on the greens that's been a significant upgrade, but they also employed Latitude 36 Bermuda grass on the tees and fairways. These new, cold-tolerant grass strains were developed specifically for hot weather regions like Oklahoma. They green up faster in spring and have better density with a firmer leaf texture.

"We're also installing a precision air system underneath the greens. It's a drainage infrastructure that allows us to pull out excess moisture and allow the root system to breathe," asserted Newmann proudly. "That goes hand in glove with the new irrigation system from Toro. We've got their newest smart system that relays direct communication. We have down to the second control so we can maximize water efficiency."

Davis and Newmann's work here is certain to once again shine the spotlight on both Oklahoma City G&CC and on Maxwell's work in general. Students of golf architecture who cannot get to Augusta National for the Masters would be well advised to come here to see the strategic fairway rolls that Maxwell and Mackenzie used to well here, and then brought forward to the fairways of Augusta National.

"That's something Mackenzie learned when he was overseas on the UK, and it's likely he taught it to Maxwell," Davis stated.

The restoration work should be completed by the end of this year.

*When not reporting live from major sports championships or researching golf courses for design, value and excitement, multiple award-winning sports writer Jay Flemma is an entertainment, Internet, trademark, and banking lawyer from New York. His clients have been nominated for Grammy and Emmy awards, won a Sundance Film Festival Best Director award, performed on stage and screen, and designed pop art for museums and collectors. Twitter @JayGolfUSA*

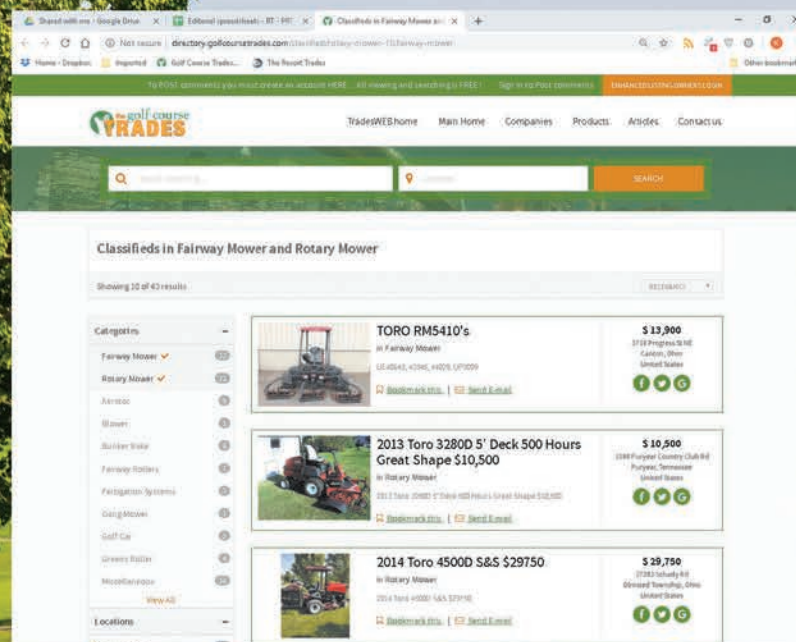
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# Turfgrass Tee Renovation



This summer, in addition to the routine cultural practices of aerification, vertical mowing and sand topdressing, the agronomy staff will undertake a couple of in-house projects. One of the projects is the renovation of eight individual tee surfaces. The tees that will be renovated are:

- III/IV tee on hole 3
- III/IV tee on hole 4
- II/III tee on hole 6
- Championship, I and II/III tee on hole 7
- II/III tee on hole 8
- III/IV tee on hole 11
- II on hole 14

Original constructed in 1992 and grassed in 1993, Olde Florida was renovated in the summer of 2000. During this renovation all of the existing turfgrass was eradicated and replaced. The original turfgrass variety on the greens, TifDwarf was replaced with TifEagle. TifEagle, which had been in testing for 10 years, had just been released the year prior as an improved ultradwarf turfgrass variety. The fairway and rough were re-grassed to Certified TifWay 419, which was the standard at that time.

As is commonplace on warm season golf courses, especially golf courses with a 12-month growing season, since the renovation of 2000 the turfgrass at Olde Florida

has been contaminated with different strains of bermudagrass. In itself, this is not a major problem. With increased maintenance and extra care, the agronomy staff can manage the different varieties and produce a golf course with healthy turfgrass that provides the membership and their guests with a good playing surface for many years.

The different textures and colors of the numerous varieties of bermudagrass can be just cosmetic, but at times some of the varieties become extremely challenging to maintain to the desired level. This is often seasonal and dependent on climate and/or pest pressure. Since a large percentage of the membership are not year round residents, often the challenges with the different varieties are unseen.

This is the case with the eight individual tee surfaces that we are renovating. They are the tees that gave us the greatest challenge early in the 2018/2019 winter golf season. The varieties, or one of the varieties on these tees did not do well when the daily summer rains ceased. In late October and November of 2018, my staff worked diligently on these tees with numerous spot treatments (granular and foliar fertility applications, solid tine aeration, light vertical mowing to cut stolons and encourage upright growth, nematicide applications, etc.) Fortunately, within 4-6 weeks we had them looking similar to the remaining tees on the golf course.

However, I would like to avoid another year of this added



effort on these tees so we will be eradicating the existing turfgrass and re-grassing with a new, single variety. This is not new, or unusual. Since the renovation in 2000, we have renovated close to a dozen tee surfaces and sodded them to Celebration Bermudagrass.



However, this summer we are doing more than the usual one or two, so I thought a communication piece would be helpful.

In addition to the individual

tees that we have resurfaced in previous summers, we also added or moved over a dozen tees to adjust the length of the golf course. We also reconstructed the driving range in 2015. All of the turfgrass used on these projects has been Celebration. Here is a link to information on Celebration Bermudagrass

I am still a big proponent of Celebration, but I would like to experiment with another variety that we would consider using if someday we renovate the entire golf course. Or, a variety that we might utilize if we do additional partial renovations or other projects. The variety is TifTuf. Here is a link that you can follow to get more information on TifTuf Bermudagrass

Since the renovation of Olde Florida in 2000, turfgrass researches have released a number of new varieties, such as Celebration and TifTuf. Some of the advantages of the new varieties include improved drought, wear, cold and shade tolerance. This is a link to a video that details the drought tolerance of TifTuf Bermudagrass. Another positive of renovations/replacement with these new varieties is consistency of leaf texture and color.

From the blog of Darren J. Davis at Olde Florida Golf Club <http://darrenjdavisgcs.blogspot.com/>



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why Evergreen is the cover of choice for many turf managers world wide and is know as the **STANDARD IN THE INDUSTRY.**

The demand for Evergreen has increased dramatically over the past years as golfer demand a better playing surface to play on as well as all sports fields. In general, wherever quality turf is demanded Evergreen is there. In addition, where the amount of golfers has decreased the focus to attract the declining numbers of golfers has been more critical to the clubs. Nothing attracts more golfers than a manicured golf course in top playing conditions.



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# Superintendent Brian Boyer: A Water-Saving Hero

Linda Parker



Less than an hour's drive from Silicon Valley, where life is technorich and micro-aggressive, the beautiful Cinnabar Hills Golf Club peacefully unfolds across northern California's rolling hillsides. Here, where the red mercury sulfide ore known as cinnabar was once mined, 27 holes of golf designed by architect John Harbottle III, afford golfers three distinctive nines and the potential combination of six different eighteens.

Cinnabar Hills is remarkable in many ways, from the hundreds of ancient oak trees that line its fairways to housing the Lee Brandenburg Historical Golf Museum, which includes Walter Hagen's Ryder Cup captain's jacket as well as President Dwight Eisenhower's original commemorative Augusta jacket.

But perhaps the most distinctive attribute of this South San Jose golf course is how authentically it honors the land into which it has been built. Strategically nurtured native vegetation and golf holes crafted to retain the natural slope of the terrain preserve wildlife habitat, while adding to the course's intrinsic appeal.

Class A superintendent Brian Boyer (the 2015 Golf Course Superintendents Association of Northern California Superintendent of the Year) and his crew of 22 workers are entrusted with overseeing this unique golf facility. This September, Brian will mark fourteen years in this role and countless accomplishments, but none that he takes more pride in than that of being a "Water-Saving

Hero," an award he and the facility received after significantly reducing the amount of water used by golf course and clubhouse operations in 2014.

## The Hero's Journey

Brian didn't start out in life conserving thousands of gallons of water or even leaping tall buildings in a single bound. His fledgling steps on the path to water-saving hero began with flunking his first semester at Michigan State University. Perhaps he wasn't meant to major in Computer Science.

Brian took a mulligan and enrolled in classes at a community college near his parents' home in South Lyon, Michigan. During this time, two experiences coincided in a way that altered Brian's path forever.

The first event was Brian's discovery that a college biology class captivated his academic interest. The second pivotal occurrence came with his decision to switch from working as a cart kid at Cattails Golf Club to joining the course's maintenance crew, a job he felt typically was held by "the cool kids."

"The superintendent, Doug Palm, CGCS, put me under his wing," Brian explained, "and I developed my passion for golf maintenance while working with him."

"I know some of the other crew members would make fun of him for his passion and 'nerdiness,' but I thought a lot of what he did was awesome. I remember the last time I was late for work and I came to him with my tail between my legs, and he tells me, 'Two creams, two sugars.' I looked at him somewhat confused, and he then told me, 'Go get my coffee.' I honestly haven't been late to work since then, some twenty years ago."

Clearly, Brian had found his motivation and his calling. He returned to Michigan State University, where he earned his Bachelor of Science degree in Crop and Soil Science and equally as important, where he met his future bride.

"My wife Jennifer and I met in Advanced Soil Science 477 with Dr. Mokma," Brian said. "Specifically, we met on a bog during a field trip. We moved to California right after we graduated."

Brian served internships at Desert Forest Golf Club in Carefree, Arizona, and at San Francisco Golf Club, where he was later hired as the assistant superintendent. Brian and Jennifer have now been married for fifteen years and are the parents of 9-year-old Samantha and 7-year-old Benjamin.

## A Hero in the Making

After the back-to-back-to-back droughts of 2011 through 2015, California's water situation was dire; it was every golf course superintendent's worst nightmare. When the directive came down from the Santa Clara Valley Water District that Cinnabar Hills had just 30 days to stop using surface water, Brian and his crew did everything they could to comply.

Although homes in the area used well water, the golf course, clubhouse and restaurant relied entirely on surface water from the Santa Clara Valley Water District's network of reservoirs. But every effort, and there were many, to find well water on the golf course property literally came up dry. Cinnabar Hills simply did not have an alternative water source.

*Continued on page 21*





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Water district officials understood that the problem was greater than irrigating a golf course; it involved a facility that provided recreation to area residents and, more importantly, jobs and livelihoods. They also recognized that Brian, who was already a Level 1 Drinking Water Distribution Operator and a Level 2 Drinking Water Treatment Operator and who handled Cinnabar Hills domestic water operations including septic and drinking water, was genuinely committed to issues of water quality and water management.

Brian began purposefully building a solid working relationship with representatives of the water district, and they saw that he was working collaboratively with them to address the problem. By attending meetings, engaging with committee members and getting actively involved as a committee member himself, Brian established what he describes as “a strong partnership with our water retailer.”

In lieu of finding a different water source, which had proven impossible, Cinnabar Hills was directed to “cut water use on the property by twenty percent.” In response, Brian, his crew and the course’s management launched an aggressive water conservation campaign. The initiative included dedicating a portion of the Cinnabar Hills website to conservation information, sending out conservation messages to course clients and the local community and implementing strategic water conservation measures to reduce the amount of water used by both the course and the clubhouse facilities.

Brian’s efforts reduced water use between March 1 and December 31, 2014 by 24.8 percent as compared to the property’s water use during the same period of the previous year. In 2015, the Cinnabar Hills team accomplished even more, achieving a 30 percent water use reduction, compared to its water use in 2013. Although state mandates requiring these levels of reduction have since been lifted, Brian continues to practice many of the water-saving strategies he used during the drought.

The crew at Cinnabar Hills now does a lot more hose work and hand watering than they had previously done. They’ve changed their irrigation schedules and water more deeply rather than more frequently. Of course, there are areas that are no longer watered at all or only minimally watered, including 77,102 square feet of previously irrigated turf that was converted to drought-tolerant native grass. Calcium and

urea-sulfuric acid injections help improve water movement and add the ‘green up’ power of nitrogen to the turf.

Someday, Cinnabar Hills may have access to reuse or recycled water for irrigation. But until that time, the water-saving hero seems to have things under control for a thriving course that sees 70,000 rounds of golf annually.

BTW--What Do Water-Saving Heroes Do in Their Spare Time?

When asked about life beyond the golf course, Brian told us, “I like to run--a lot. I got into ultra-running a bit more than 5 years ago and started with races of 50 kilometers (31 miles). I then went on to 50-mile races and 100-kilometer races.” Brian’s first 100-mile footrace coincidentally finished near the acclaimed public course, FarmLinks Golf Course at Pursell Farms in Sylacauga, Alabama.

“If I’m not running,” Brian added, “I love to read. Mostly fiction books pertaining to spies or detectives. And having grown up in or near the Motor City, I did enjoy the biography of Lee Iacocca.”

When asked what he would do if he won the lottery, Brian’s answer ironically circles back to the FarmLinks Golf Course. “After I know my kids don’t have to worry about money for the rest of their lives,” said Brian, “I’d like to reincarnate a FarmLinks-style course with product testing and research studies.”

Apparently, even if fortune blesses water-saving heroes with great wealth, they never fully retire. They keep right on finding ways to conserve water, improve agronomics and in their own meaningful way, save the planet.

*Linda Parker has been writing professionally since the 1980s. With clients in finance, sports, technology, change enablement, resorts and nonprofit global initiatives, Linda helps organizations communicate their stories in meaningful ways to the people they most want to reach. She has authored, ghostwritten or contributed to more than a dozen nonfiction books. Linda is a member of the Authors Guild and the Golf Writers Association of America. You can connect with her at Linda@GlindaCreative.com*

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# Standard Golf Company: Around the Course



When one thinks of Standard Golf Company's products the first that come to mind unsurprisingly would be: cups, flagsticks, bunker rakes,

One of the core principals at Standard Golf is to help make the job of the golf course superintendent



flags and tee markers. Along with ball washers and signage these are many of Standard Golf's core products. But Standard Golf is much more than on-course accessories.



easier while helping to make them more efficient and successful in their jobs. We accomplish this with useful tools and innovative new products.

## Magnum Tools

There is a lot of grass and landscaping at each golf course that at the end of the day the responsibility falls to the superintendent and their teams to maintain. Thus it is very important for Standard Golf to have other tools that can be used to help maintain these areas.

The Magnum Line of tools are exclusively from Standard Golf. Their calling card is their strength and longevity. You can see these on all of their heads as we connect the heads to the handles with a twist and

gusset bracing. This process helps to eliminate head-to-handle wobble. A wide variety of Magnum Tools can help you get through any job around the course – or even your own home.

1.– Straight tooth maintenance rake. This rake is a perfect multi-functional tool designed well for construction and repair projects.

2.– Landscape rake with sifting tooth. Like our Chief Bunker rake, this maintenance tool has a double-sided head. One side to separate stone and debris and the other for straight edge leveling.

3.– Squeegees. We have both a roller squeegee and a straight edge version.

4.– Spike roller is perfect for light overseeding or to lightly aerate bentgrass greens and tees.

5.– The Lute is a great tool to help clean up and remove aeration plugs.

6.– Don't forget the tool rack. We have a few different sizes so that you can organize your tools efficiently.

## The Levelawn

The most popular of our maintenance tools is our Levelawn. Coming in two sizes with both a 30 (76 cm) and 36 (91 cm) head this tool is a must have for anyone that is seeding new grass or simply needs to level their lawn with topdressing.

## Turf Repair Tools

If you have damaged grass or turf areas that need some TLC Standard Golf has tools that can help in this regard as well. From full on turf repair / transplant tools to hand aerifiers and even lawn spikes and staples Standard Golf can help.

1.– Soil Profile Sampler – this tool is great to quickly pull a clean root zone sample to check the health.

2.– Hexagon Turf Repair – the six-sided tool can pull and replace plugs that are 7 W by 4D (18 cm x 10 cm)

3.– Turf Plugger is a tool that is ideal for replacing small areas of damaged turf.

4.– Hand Aerifier can have solid or hollow tines, collects the plugs while aerating and is a perfect companion to your aerifying chores.

5.– Biodegradable Landscape

Spikes and wire landscape staples are each a great addition when needing to anchor down sod, landscape covers or even to keep hoses in place.

The next time you're about on the golf course and you see that great looking custom flag or are cleaning your golf ball, remember Standard Golf not only sets the Standard in golf course accessories, but also maintenance and turf repair tools.



To find out more about Standard Golf Company visit their website at [www.standardgolf.com](http://www.standardgolf.com), or call at (800)553-1707

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# NEWS

## From Around the Industry

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### Nufarm announces Cheetah® Pro Non-Selective Herbicide approval in California



Nufarm Americas today announced the approval of Cheetah® Pro non-selective herbicide in California. Cheetah Pro provides fast and effective control of grass, sedge and broadleaf weeds in a variety of turf and landscape settings. Previously approved in 46 states, Cheetah Pro will be available to California distributors in 2 x 2.5 gallon units and 30-gallon drums beginning mid-July with 4 x 1 gallon units available in late July.

Cheetah Pro was developed to help turf professionals manage herbicide resistance while providing post-emergence control of the toughest weed and grass challenges. Its novel mode of action works quickly to control undesirable plant vegetation around ornamental trees, shrubs and potted plants, as well as landscape trim and natural areas. Cheetah Pro displays less movement in grasses, which can help create sharp boundary markers that are particularly helpful for sports fields and precise trimming around ornamental beds.

Due to its fast-acting control, Cheetah Pro is also an effective option for pre-plant weed management in turf and ornamentals. To learn more about Cheetah Pro non-selective herbicide, view the label, or download a product information bulletin, visit [nufarm.com/usturf/cheetah-pro](http://nufarm.com/usturf/cheetah-pro).

For a complete list of Nufarm turf and ornamental products, visit [nufarm.com/usturf](http://nufarm.com/usturf).

For specific application rates, directions, mixing instructions and precautions, read the product label.

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Non-retouched client photo: GreenJacket System coming off in the spring!

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# King's Course Opens in Inverness



*First new build project for Scottish architect Stuart Rennie.*

**The King's course in Inverness, the new home of the renamed King's GC (formerly Torvean GC), opens today.**

The course, which replaces an existing eighteen holes that will be lost to the construction of the new Inverness West Link road, has been designed by Scottish golf architect Stuart Rennie, his first new build course project.

The Torvean course opened as a nine holer in 1962 and was extended to eighteen in 1988. Originally a council-run facility, the golf club took it over some twenty years ago, but the land remained

in council ownership, leased to the club. As such, when the proposed West Link, which has been termed 'the gateway to the Highlands' and aims to reduce city centre congestion and ease travel between the A9, A96 and A82 trunk roads, was routed straight through the golf course, Highland Council was obligated to provide a like for like golf facility. After a competitive masterplanning exercise back in 2012, Rennie was appointed to design the new course, which occupies land to the north-west of the old one.

Rennie said: "I was only 32 when I was appointed to design the course, very young to win such a job, and, let us be honest, there are not that many new golf course projects around at the moment. So

obviously this has been a hugely important project for me, and I have put my heart and soul into it."

Sixteen holes of the course occupy the new land, while the first and eighteenth are on land that was previously home to three holes of the old course. A new clubhouse has also been built. "During construction, we had to ensure that there were always eighteen holes available for members to play, but we also had to have the new course open by 2019, so that phase two of the road construction can start," said Rennie.

The architect added that the move to new land will see club members and their guests facing a very different sort of course. "The old course was pretty flat, but now we have a nice, undulating site," he explained. "There is 65 metres (210 feet) of elevation change between the top and bottom of the site. The soil is quite nice – sandy and gravelly, although it had been arable farmland. We were able to build a very lay of the land course – we moved less than 100,000 cu m of earth."

"I particularly like the fourth hole, though I have heard different opinions from some others," he added. "We tried to make use of existing drainage flows, with open ditches

and wetlands, and on the fourth you play towards a ditch at 220 yards off the tee, with a bunker to the left. The green surface is blind, though you can see the top of the pin, and there are no bunkers at greenside, promoting a running approach. We tried very hard to make the par threes both special and individual – they all play in different directions and to different lengths. That's something that is important to me – I think from growing up playing Royal Dornoch."

Course manager Stevie McIntosh said: "There has been talk in Inverness for many years about the potential relocation of the Torvean course, so we are thrilled finally to see it come to fruition. We are only moving across the road, but we're going to a self-contained high quality new facility with clubhouse, maintenance facility and golf course. Stuart Rennie has created an inland gem in Inverness, which will rival most of the north of Scotland's classic links. It was a privilege to work with Stuart from start to finish: his professional ability shone."





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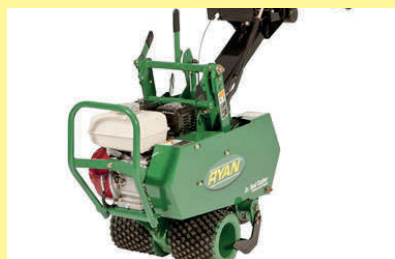
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