

(IRRIGATION continued from page 62)

pipe and wire, communication cable to the halfway house, aerator wire and wire or piping to restrooms. If you want to include any of these items in your project, add them to the budget, but make sure you bid show them and bid them as separate items as again, they are not part of the irrigation system and can then be easily removed from the project if there is not enough money. And you might think about adding a lightning detection/protection system, either with or without horns/sirens.

You also need to include your design fees, staking fees and engineering fees. And if you want a GPS as built, then that fee, as well. You may also have a programming fee for your central depending where you are located and who is providing the programming.

Lastly you need to think about rock.

If you're lucky enough to not have any on your course, you just saved a lot of money. Odds are you have some and it has to be carefully budgeted. You need to use your experience digging on the golf course and how much exposed ledge there is. If you have rock walls on the golf course that's a good sign that you have lots of rock because it had to come from somewhere.

Rock is the one big "if" and you can't afford to be very far off in its budgeting. You'd rather be over than under, trust me. I recently broke my course record with \$560,000 of rock costs on an 18-hole system. That's not a number you can afford to miss in the budget.

Your budget should also have a contingency. I am not a believer in big contingencies for golf course irrigation systems. If you and your designer do your due diligence up front so you know all your costs, you won't have to carry a large contingency and will come in on budget.

Make sure you have good numbers when you go to the membership for funds and/or approvals. This means have a design and if at all possible hard bid numbers, especially if your course has a reputation for being over budget on projects.

Members never think you will come in on budget so they automatically add in their head to whatever number you give them. They cannot argue with hard numbers, just estimated ones. **GCI**

COMPANY	WEBSITE	PAGE	COMPANY	WEBSITE	PAGE
Aquatrols	www.aquatrols.com	18, 29, 31, 52, 58, 63, 71	JRM	www.jrmonline.com	78
Aspire Golf Consulting	www.aspire-golf.com	77	OHP	www.ohp.com	69
BASF	www.betterturf.basf.us	61	Otterbine Barebo	www.otterbine.com/golf	8
Bayer Environmental Science	www.backedbybayer.com	23	PBI/Gordon	www.pbigordon.com	17, 51, 55, 73
Bruce Williams Golf Consulting	www.williamsgolfconsulting.com	19	Plant Food Systems	www.plantfoodsystems.com	53
Champion Turf	www.championturf farms.com	26-27*	Range Cart	www.rangecart.com	72
DuPont Professional Products	www.proproducts.dupont.com	13, 33*	Sipcam/Advan	www.sipcamadvan.com	83
Executive Golf Search	www.egsinc.com	19	Spectrum Technologies	www.specmeters.com	67
Fybon Industries	www.fybon.com	21	Syngenta Professional Products	www.syngenta professional products.com	9
Grigg Brothers	www.griggbros.com	59	Toro	www.toro.com	15
Irrigation Consulting	www.irrigation consulting.com	51	Trojan Battery Co.	www.trojanbattery.com	7
Jacobsen	www.jacobsengolf.com	84	U.S. Aqua Vac Inc	www.usaquavac.com	16
John Deere Golf	www.johndeere.com	2-3	Underhill International	www.underhill.us	34
			Valent	www.valentpro.com	5

*denotes regional advertising

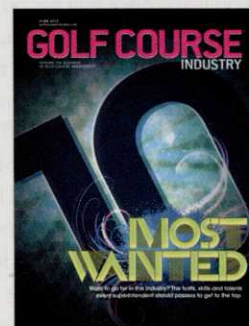
Were You Featured In This Issue?

Reprints enable you to reuse your article and simply place it into the hands of your target audience. Having been featured in a well-respected publication adds the credibility of a third-party endorsement to your message.

Give yourself a competitive advantage with reprints. Contact us for more information regarding reprints and additional applications designed to meet your challenging market needs.

Use Reprints As:

- Sales Aids
- Educational Programs
- Recruitment Tools
- Employee Training
- Managed ePrints
- Sales Presentations
- Trade Show Handouts
- Conference Materials
- Media Kit Supplements
- Direct Mail Campaigns



Call Dolores Franta @
800-456-0707