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DRAINING

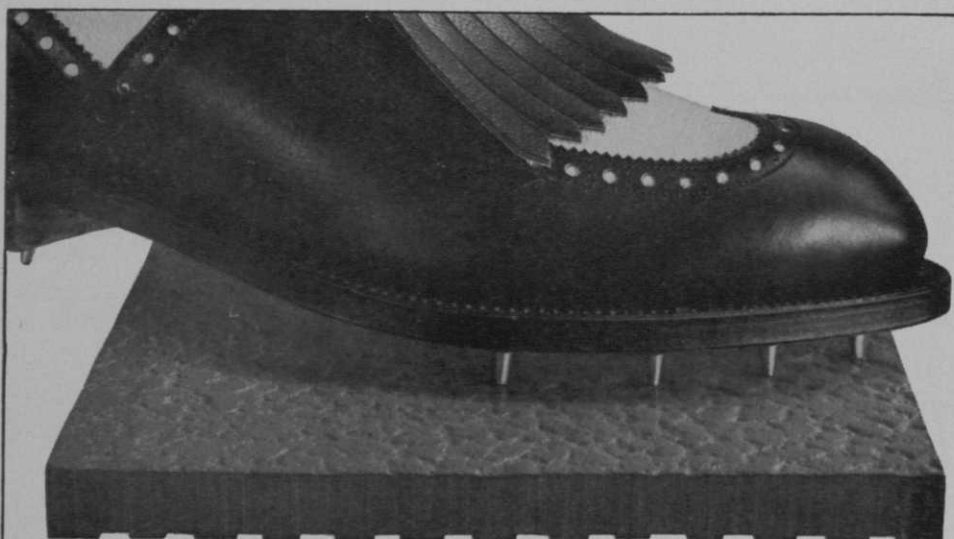
Continued from page 80

amount of area that a tile line will have to drain is as follows: Multiply the distance between tile lines times the number of feet long the tile lines are and divide this product by 43,560 sq. ft. (per acre) and this will give you the number of acres in the drainage area.

The closer the lateral lines are spaced, the more quickly the area will drain. However, the important factor here is the cost of installing additional lines. In order to save some money, it is possible to lay the main line and a minimum number of laterals. If the desired drainage is not achieved, more laterals can be placed at a later date. It should be kept in mind, that while closer spacing will remove excess water a little more quickly, the chief advantage to be gained by closer spacing, is that the water table will be more nearly flat and at a more uniform depth than at wider spacings.

Installing surface inlets is an impor-

Continued on page 84



Carlyle Golf Club Quarry Tile... combines the beauty and durability of ceramic quarry tile with rippled non-slip surface. In a variety of rich colors, 6" x 6" x 1/2" in size, for new floors or resurfacing. Contact your ceramic tile contractor or write direct. **The Carlyle Tile Company, Ironton, Ohio; or Jordan Tile Mfg. Co., 909 Railroad St., Corona, Calif., 91720.**



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MODEL B2B ILLUSTRATED

DRAINING

Continued from page 82

tant factor in tile drainage. Actually, wider spacing of tile lines can be used if surface inlets are freely used. Surface inlets can be installed in lower areas and allow much faster drainage of these impounded waters.

Laying the Drain Tile

At the end of the day, whenever the job is not completed, always block up each end of the tile so that small animals or unexpected cave-ins or washing, will not fill the tile and clog them. As soon as the tiles are placed in the trenches a few inches of earth should be back filled to hold them in place until the final back filling is done. In muck and sand, cradling of the tile is often necessary to assure maintenance of the grade. Whenever cradling is necessary, the board and cleat method is perhaps the best system. Simply nail small cleats on each side of a flat board and the tile can be laid so that it does not touch the bottom of the board and is supported on those cleats. This will lend more support to the tile and keep the tile from shifting

or losing its position or grade.

The distance between any two tiles is determined by the type of soil. If the tile is being layed in water sand, the snugest fit possible should be obtained to prevent their admitting sand. In other soils, the space between tiles should be between 1/16 and 1/8 inches apart.

A layer of gravel or other porous material over the joints of the tile before back filling will prevent a great amount of silting. Complete coverage of the tile line with gravel is not necessary. Only a small amount of gravel over the crack will generally prevent much silting.

Two last important points should be mentioned:

1. Inspection or clean-out points along the tile drains. These permit easy access and easy clean-out if they become clogged with silt or roots.
2. Make an accurate map of all the areas, so these lines can be located after you are gone.

(Reprinted from Northwest Turfgrass Topics—published By Northwest Turf Association)



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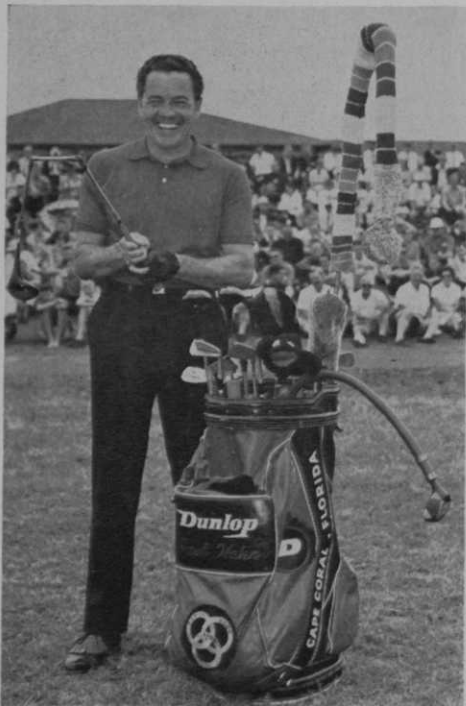
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Brockton to use air delivery in West

Brockton Footwear, Inc., manufacturers of the Foot-Joy and Ben Hogan golf shoe lines, has announced a new fast delivery service for the states of Arizona, Calif., and Nevada. The service is operated in conjunction with American Airlines.

Orders for Foot-Joy and Ben Hogan shoes are flown to Los Angeles where they are then delivered to the Los Angeles Post Office. The service is better than maintaining a shoe warehouse in the west in that orders are filled at the factory, assuring against a warehouse being out of stock.

Customers in the area serviced will only be charged the regular parcel post charges from Brockton to the delivery point although they will receive the benefit of air transportation.

According to Richard N. Tarlow, treasurer of Brockton Footwear, the service will be built up to three times a week. It is believed that Brockton Footwear is the first company in its field to offer this service.



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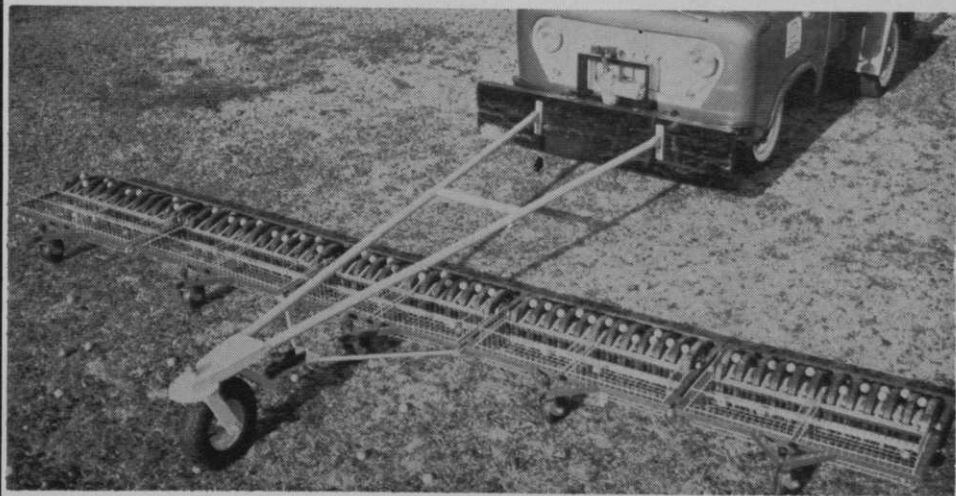
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For more information circle number 247 on card

HERB GRAFFIS

Continued from page 14

some girl workers, said "We may see as many women as men playing golf," we advised him to quit drinking.

Winter Haven, Fla., to build 18 costing \$350,000 without clubhouse on land donated by *Philip Berkovitz*, real estate man . . . *David Wallace* is architect . . . Turin (N. Y.) Highlands Assn. to build 18 . . . Hawthorne (Fla.) G&CC to build nine . . . *Guy Atkinson* and *John Mackay* and Associates at their community The Villages, near San Jose, Calif., to have 18 to plan of *Bob Graves* . . . Swedesboro (N. J.) GC, owned by *Richard E. Kidder*, organized to build 18 to be completed in spring, 1967 . . . Kidder was owner and developer of Golden Pheasant GC and surrounding property in Burlington County, N. J. . . . Livermore (Calif.) building municipal 18 . . . *Dean Adkisson* now pro at Southern Hills CC, Tulsa, Okla.

Women's Club of Grafton, W. Va., became sales agents for memberships in Taggart Lake CC to be built soon and membership sales really jumped . . . *Al Starr* succeeding *Everett Leonard* as pro at Buttes des Mortes CC, Appleton, Wis. . . . Leonard, after 31 grand years of service to the club, is retiring . . . Cincinnati Recreation Dept. made a profit of \$76,988 last year on a gross of \$424,349 at the city's four golf courses and the Lunken Airport playfield . . . The golf net was made despite a \$20,000 loss on the Nuemann course which opened in June and operated only nine holes at any one time.

Bill Mast, owner of Carlton Oaks CC, Santee, Calif., started his own campaign when San Diego County Chamber of Commerce proposed "Golfland - USA" publicity operation couldn't get together owners and officials of the county's 60-odd courses . . . Mast got *Mrs. Scott Synder* as his golf promotion director . . . She got 24 tournaments of 40 to 100 players each the first of 42 days of 1966 . . . Mast's 42-room guest lodge is getting so much business he will build another . . . *Bert Montessor* and *Dar Davis* whose par-3 at Sarasota, Fla., is one of the early lighted ones that has applied for rezoning to permit a trailer park on the

Continued on page 90



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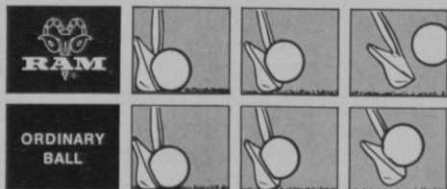
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HERB GRAFFIS

Continued from page 88

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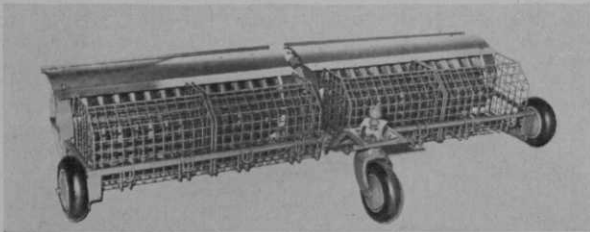
Bellevue, Wash., to build municipal 18 . . . Chesapeake CC plans to build 18 convention and 18 par-3 near Lusby, Calvert County, Md. . . . James R. Thompson and Associates of Dallas and Washington are promoting the project . . . East Coast Properties, Inc., building 18 and residential area near Elizabeth City, N. C. . . . **J. Porter Gibson** is golf architect . . . Del Norte CC, El Paso, Tex., expects to open first nine in Sept. . . . Course will be public; clubhouse private . . . **Bob Crouch** is manager and **Bill Weaver**, pro . . . Pinefield-at-Ipswich, Mass., development of Martin Cerel and Campanelli Bros., is getting 18 designed by Robert Trent Jones . . . North Little Rock, Ark., to have municipal course designed by **Joe Finger**, Houston architect.

CC of Lexington, S. C., gets \$200,000 FHA insured loan for building 18, clubhouse, pool, etc. . . . **Eddie Ricciboni**, Sumter, S. C., is architect . . . He expects

Continued on page 92

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