## Starting the bid: project take-offs

## Part II of III: Professional estimators don't confuse quantity take-off with a separate assignment, pricing.

## by Sylvia Hollman Fee

From practice to trial, knowing materials, methods and variable conditions will sharpen your estimating skills.

Experience can expand your profit margin in a given market. Your estimate and bid price are based on two factors: (1) your company's history and (2) the facts of the potential new job.

Some of the factors you consider each time are routine: travel costs, costs of bonds, specific site conditions, and specialties such as irrigation or required heavy equipment. Other factors may be special and unique to the job, such as the relationships between those parties involved.

Whatever the specifics, it is vital to map out the scope of work involved in the job and the key players to manage the project. If you discover inconsistencies in the work outline, vou can take into consideration the costs that deviate from your own firm's standards. This holds true whether the specifications are given by architects and owners or proposed by the landscaper making the bid.

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The Landscape Project Analysis form (Fig. A) provides a format for recording and evaluating vital aspects of the project estimate. When you have recorded all the elements of the project and decided that the job is appropriate for your firm, your systematic estimate is under way.

Setting up-To perform a unit price estimate, some unit of measurement must be assigned to every cost associated with a job. For example, portable toilets are required on a highway job, so the unit of measurement will be each portable toilet.

Some required items are mentioned briefly in requests for bids. You must be sure to obtain all the site drawings. specifications and information collected on-site.

A quantity take-off lists the materials, number of man-hours, equipment and any other items required to complete the job. Take your time. Keep in mind that this information-gathering is the basis for your pricing and bid. Accuracy is vital for your bottom-line

profit.

The quantity take-off is a separate assignment from pricing; professional estimators do not confuse these tasks. You can guard

against error by using a pre-printed form such as that shown in Fig. B. Every item that you will pay for, or reimburse as a cost, must be "captured" and included on the quantity take-off form.

'Taking off'-To do a takeoff from a plan drawing, read and make notations in a planned sequence. This is done by making lists of all work and materials of the same type, such as all grass sod areas and all paved walkway areas of similar materials. Shade and color measured areas on plans as you go.

Areas may be measured in square feet, yards, linear feet, volume and so on, as long as

you record the unit of measure on the take-off form. Measure and record items for surface cover, or volume of materials, length of border, amount of time, etc. Remember the methods and amount of work to do a job all have an associated cost that must be recovered.

A systematic method is useful forfuture reference and/or communication with others. This listing includes all items such as work days for specific earthmoving equipment, man-hours for cleanup and other requirements.



## Fig. B

Notice in Fig. B that the surface material measured by noted dimensions with irregular areas is accompanied by a waste allowance. The required depth of the concrete slab is listed, so volume of material may be priced later. The area of crushed stone is listed and then converted to a volume of material so that item may be priced correctly when costs are added.

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Figures reproduced from Means Landscape Estimating, by Sylvia Fee, R.S. Means Co., Inc. (800) 334-3509.

> **NEXT MONTH:** Pricing the take-off