

Water Rebate Program

Turf Removal "How to measure turf areas"

WHAT YOU'LL NEED:

1. TAPE MEASURE
2. PLAIN OR GRAPH PAPER
3. CALCULATOR

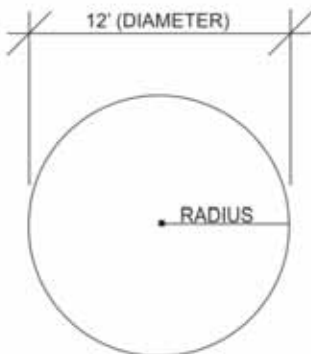
STEP 1: SKETCH THE SHAPE OF THE AREA OF TURF YOU PLAN TO REMOVE OR REPLACE.

STEP 2: MOST LANDSCAPE AREAS ARE NOT PERFECTLY SHAPED. TO MEASURE AN IRREGULARLY SHAPED LANDSCAPE AREA, BREAK THE AREA INTO SEPARATE SQUARES, RECTANGLES, CIRCLES AND TRIANGLES. MEASURE THE SQUARE FOOTAGE OF EACH SHAPE, AND ADD THE AREA MEASUREMENTS TOGETHER.

CALCULATING THE AREA OF AN IRREGULAR SHAPED LANDSCAPED AREA:

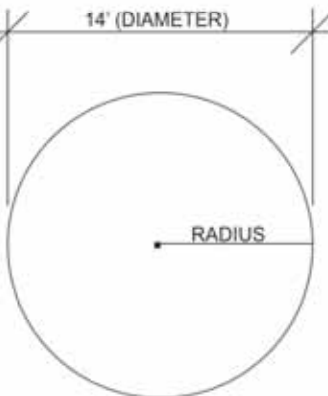
1. AREA OF A CIRCLE:

RADIUS = DIAMETER/2
 AREA = (RADIUS X RADIUS) X 3.14



$$\begin{aligned} \text{RADIUS} &= \frac{12}{2} \\ &= 6 \\ \text{AREA} &= (6 \times 6) \times 3.14 \\ &= 36 \times 3.14 \\ &= 113 \text{ SQUARE FEET} \end{aligned}$$

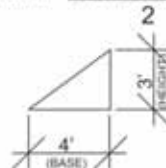
2. AREA OF A CIRCLE



$$\begin{aligned} \text{RADIUS} &= \frac{14}{2} \\ &= 7 \\ \text{AREA} &= (7 \times 7) \times 3.14 \\ &= 49 \times 3.14 \\ &= 154 \text{ SQUARE FEET} \end{aligned}$$

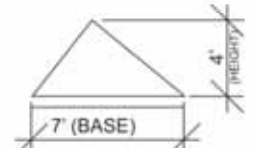
3. AREA OF A TRIANGLE:

AREA = $\frac{\text{BASE} \times \text{HEIGHT}}{2}$



$$\begin{aligned} \text{AREA} &= \frac{4 \times 3}{2} \\ &= \frac{12}{2} \\ &= 6 \text{ SQUARE FEET} \end{aligned}$$

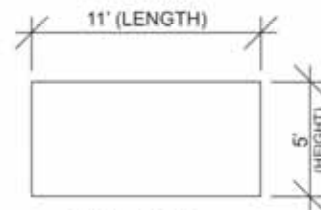
4. AREA OF A TRIANGLE:



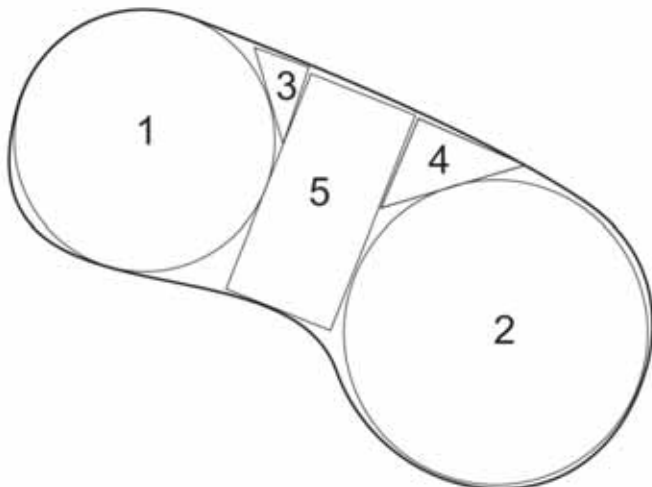
$$\begin{aligned} \text{AREA} &= \frac{7 \times 4}{2} \\ &= \frac{28}{2} \\ &= 14 \text{ SQUARE FEET} \end{aligned}$$

5. AREA OF A RECTANGLE OR SQUARE:

AREA = LENGTH X HEIGHT



$$\begin{aligned} \text{AREA} &= 11 \times 5 \\ &= 55 \text{ SQUARE FEET} \end{aligned}$$



TOTAL LANDSCAPED AREA:

$$\begin{aligned} \text{AREA 1} &= 113 \\ \text{AREA 2} &= 154 \\ \text{AREA 3} &= 6 \\ \text{AREA 4} &= 14 \\ \text{AREA 5} &= 55 \\ \text{TOTAL AREA} &= 342 \text{ SQUARE FEET} \end{aligned}$$