

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Before you begin, measure the total length of your pipe in inches and write the measurement here: \_\_\_\_\_”

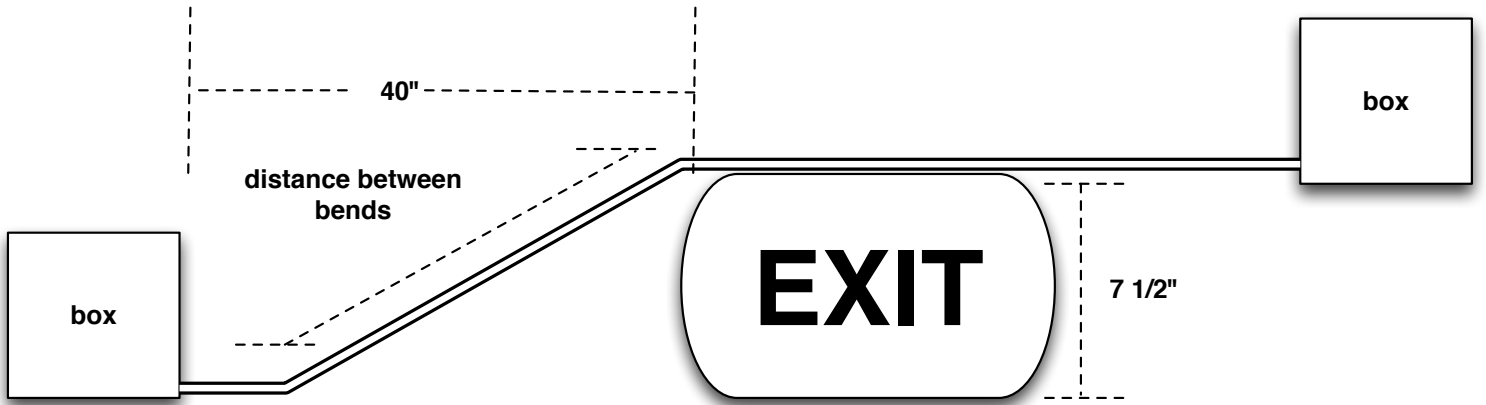
**You are running a conduit along a wall from one lighting box to another lighting box. You encounter a 7 ½” exit sign which is 40” from the first lighting box. You must bend an offset so that the pipe can change elevation, get around the sign, and connect to the second lighting box. See back for drawing.**

**Assume 30° bends will be used.**

1. Calculate shrink \_\_\_\_\_  
Convert decimal to fraction \_\_\_\_\_
2. Calculate the distance between bends (hypotenuse) \_\_\_\_\_”
3. Add ‘calculated shrink’ to the distance measured from the first lighting box to the exit sign \_\_\_\_\_”
4. Place your first mark on your pipe at the solution to step # 3
5. Measure back on your pipe the distance calculated in step # 2 and place your second mark. Draw a ring around the pipe at this mark so that your mark is visible at all angles.
6. Make your first 30° bend on the first mark (remember to use the arrow) and point the hook of the bender toward the exit sign\*
7. Rotate your pipe 180° in the bender and make the second 30° bend\*  
\* note: always point the hook of the bender in the same direction for both bends
8. Check your pipe for proper fit! Remember to take your initial overall pipe length into account.

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\*\*\*Diagram not to scale\*\*\*