### 2012-13 District Winner

Tool and Equipment Challenge http://wwwi/intranet/cr/SolutionsAtWork/Innovations.htm

## **April 2013**

Prepared by Customer Relations Missouri Department of Transportation

# **Centerline Taper**



## **Description**

The Centerline Taper is a two-wheel cart to apply reflective tape after placing an asphalt patch.

#### **Benefit**

The Centerline Taper allows workers to put down reflective tape quickly and safely without bending over. This eliminates back strains and hand abrasions from placing the tape by hand. The adjustable handles keep the cart at the right height for any worker. The tape also stays in place better than temporary tabs, which often need to be applied multiple times.

#### **Parts and Labor**

15 feet -1"x  $^{1}/_{8}$ " square tubing 2 feet  $-\frac{3}{4}$ " x  $^{1}/_{8}$ " square tubing

2 - 8" wheels with  $\frac{3}{8}$ " holes  $2 - \frac{3}{8}$ " x 5" bolts

 $2 - \frac{3}{8}$ " flat washers

 $2 - \frac{3}{8}$ " lock washers  $2 - \frac{3}{8}$ " nuts

1 - 2" x 14" telespar post

 $2 - \frac{1}{4}$ " x 1" bolts

 $2 - \frac{1}{4}$  nuts  $2 - \frac{1}{4}$  x 2" bolts

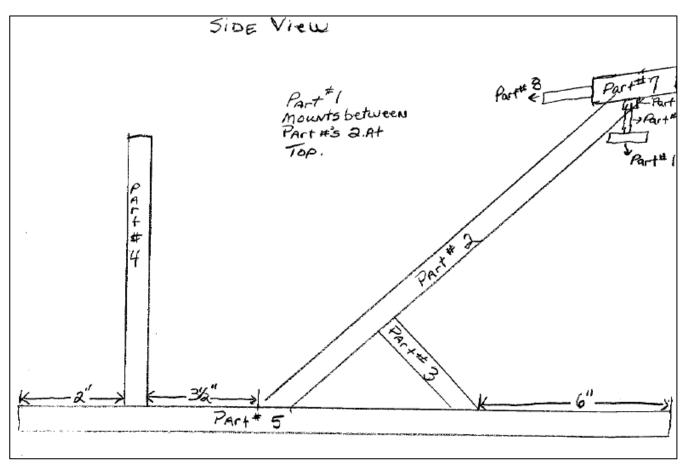
 $2 - \frac{5}{8}$ " x 14" steel rod

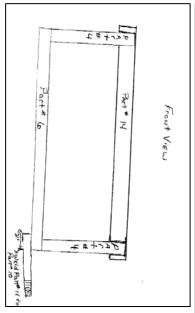
 $2 - \frac{3}{4}$ " x  $11 - \frac{1}{2}$ " pipe  $2 - 1 - \frac{1}{4}$ " x  $11 - \frac{1}{2}$ " plastic hose

**Total: \$59** Labor: 2 hours

## **For More Information**

Contact Judy Shrum at (660) 679-1202. Additional photos can be seen by accessing the Innovations Showcase homepage at http://wwwi/intranet/cr/SolutionsAtWork/Innovations.htm.





PARTS LIST FOR CENTERLINE	
	Part #'s
1- 1"X1/8"X14" SQUARE TUBING	1
2- 1"X1/8"X35" SQUARE TUBING	2
2- 1"X1/8"X5" SQUARE TUBING	3
2- 1"X1/8"X9" SQUARE TUBING	Ц
2- 1"X1/8"X18" SQUARE TUBING	5
2- 1"X1/8"X12" SQUARE TUBING	4
2- 1"X1/8"X3" SQUARE TUBING	7
2- 3/4"X1/8"X12" SQUARE TUBING	8
2- 8" WHEELS WITH 3/8" HOLES 2- 3/8"X5" BOLTS	9 10
2- 3/8" FLAT WASHERS	
2- 3/8" LOCK WASHERS	12
2- 3/8" NUTS	(3
1- 2"X14" TELSPAR POST	14
2- 1/4"X1" BOLTS	
2- 1/4" NUTS	16
2- 1/4"X2" BOLTS	17
2- 5/8"X14" STEEL ROD	18
2-3/4"X11 1/2" PIPE	19
2- 1 1/4"X11 1/2" PLASTIC HOSE	20

