

## DUAL-WING PLOW

The Maryland State Highway Administration (SHA) has a fleet of four dual-wing plows that can do the work of three standard plows, clearing up to 24 feet of roadway, or two full highway lanes, in one pass. The plows will be used in Allegany, Frederick, Garrett and Montgomery Counties.

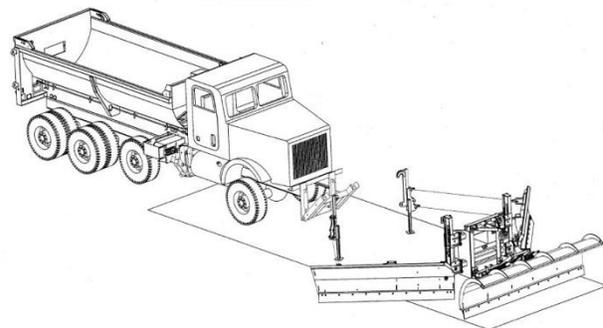
The Dual-Wing Plow was the brainchild of shop chief Steve Henry, who began his SHA career driving snow plows in 1972 and now oversees maintenance and repair of the shop's equipment.



While many snow plows include a “wing” blade on the side in addition to the plow on the front of the truck, SHA’s versatile new plow has two 12-foot wings – one on each side – and can use one, two, or all three in different combinations. It’s a simple idea with big implications: Standard plows can clear only 9 feet at once, so it takes three of them to clear the 24-foot width covered by the dual-wing plow. For about \$202,000, only about \$8,000 more than a single-wing plow, SHA was able to order a plow custom-built to do triple the work.

### Dual-Wing Plow Fast Facts:

**Maximum plowing width:** 24 feet  
**Manufactured by:** Henderson Manufacturing of Manchester, Iowa  
**Cost:** \$202,299  
**Purchased:** 2012  
**Location:** Frederick, Allegany, Montgomery and Garrett Counties  
**Truck:** Western Star Model 4700SB  
**Engine:** DD13 Detroit Diesel (435 HP)



Above: SHA’s Steve Henry began exploring the idea of a dual-wing plow around 2001. He used this CAD drawing to explain his concept.