

Controlling runoff from unimproved roads can be a challenge. Road traffic during wet conditions can destroy waterbars and the road crown. Open top culverts can clog with sediments and require regular maintenance. Soon the road surface is rutted and impassable as the uncontrolled runoff is carrying road material downhill.

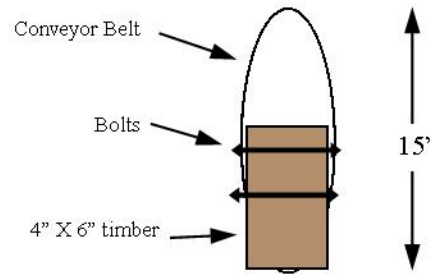
The conveyor belt diversion can control this runoff by diverting water from the road surface while still permitting vehicles to easily pass. The belt diversion gives under tire pressure then springs back to its original position. Unlike waterbars the belt diversion will remain stable during wet road conditions and will still function when the road crown is lost provided that the belt diversions are properly spaced.

### Recommended Spacing

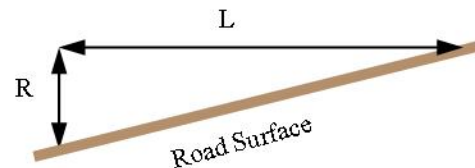
Road Grade	Distance
2%	250 ft.
5%	135 ft.
10%	80 ft.
15%	60 ft.

### Alternative Assembly Method

Conveyor belts thicker than 1/2" are used so that the diversion will return to an upright position after being compressed. If thinner belts are used the following assembly method should be considered.



### Determining Road Grade



$$\text{Grade} = R/L \text{ times } 100$$

### Acknowledgements

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Prepared by Indiana County Conservation District

# Conveyor Belt Diversions



**An easy to install solution to your road stability problems.**



**A drivable solution that controls runoff.**