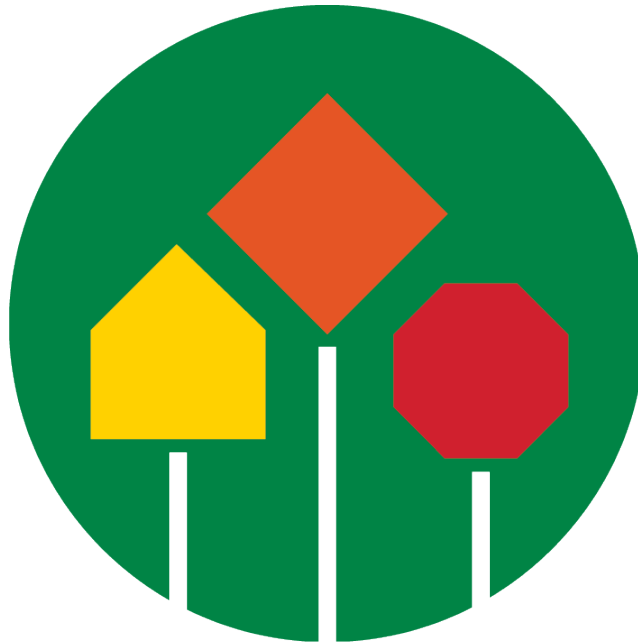




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Safety Edge Projects





What is a Safety Edge?

- A simple & effective solution that can help save lives by allowing drivers who drift off pavements to return to the road safely.
- The Safety Edge shapes the edge of the pavement to approximately 30 degrees.



Pavement Edge Drop-Offs





Pavement Edge Drop-Offs

- A vertical pavement edge can create a "tire scrubbing" condition that may result in over-steering.
- Driver may lose control of the vehicle.
- The resulting crashes tend to be more severe than other crash types.
- A vertical or near vertical drop-off of 2.5 inches or greater has been shown to pose a significant risk.



3 KCRC Projects

- Bailey Drive –between Vergennes St and Boynton Avenue (2.65 Miles)
- Ada Drive –between Fox Hollow Dr and Thornapple River Dr (1.31 Miles)
- 18 Mile Road– Casnovia to Peach Ridge Ave (1.5 Miles)



Selection Consideration

- Bailey Drive – Narrow shoulder and horizontal curves, Local Funds
- Ada Drive – Narrow shoulder with higher volume, Federal Funds
- 18 Mile Road – Narrow shoulder and HMA overlay candidate



BAILEY DRIVE (Local w/ 2000 ADT)

- Crush & Shape and 2 Course Resurface
- Placed Safety Edge during Top Course



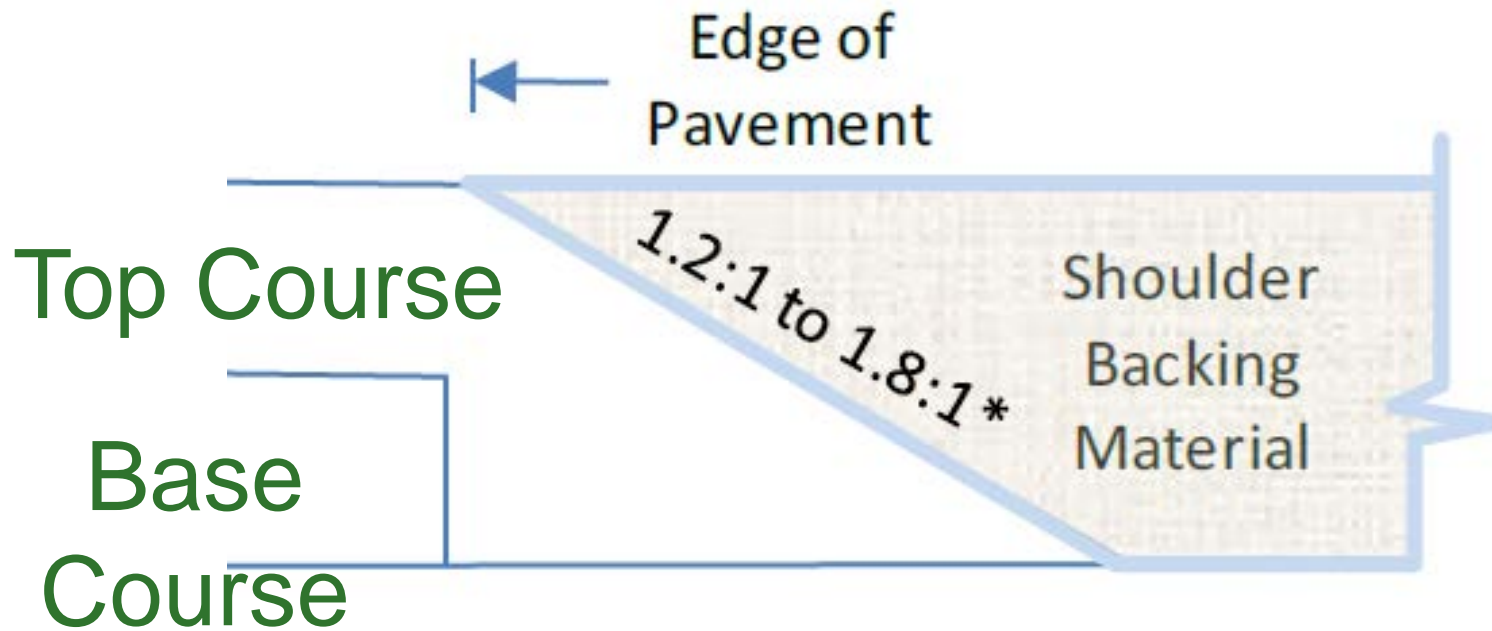
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Safety Edge Shoe





Safety Edge in Top Paving Course





How Does It Impact Paving Process

- Using the Safety Edge should not affect the rate of production.
- 1 percent additional asphalt material cost.
- Roller needs to stay off outside edge.



Bailey Drive



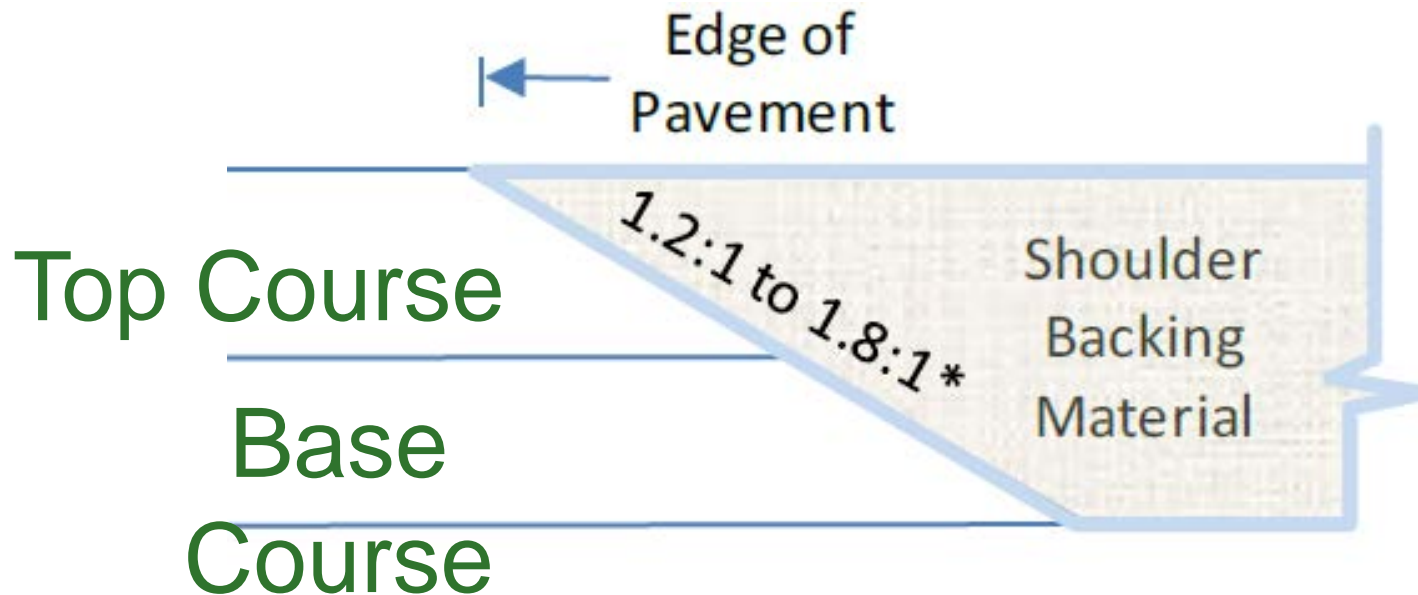


ADA DRIVE (Primary w/8000 ADT)

- Crush and shape ex. HMA and 2 Course HMA Resurface
- Safety Edge placed in both courses.



Safety Edge in Both Base & Top Courses





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Ada Drive





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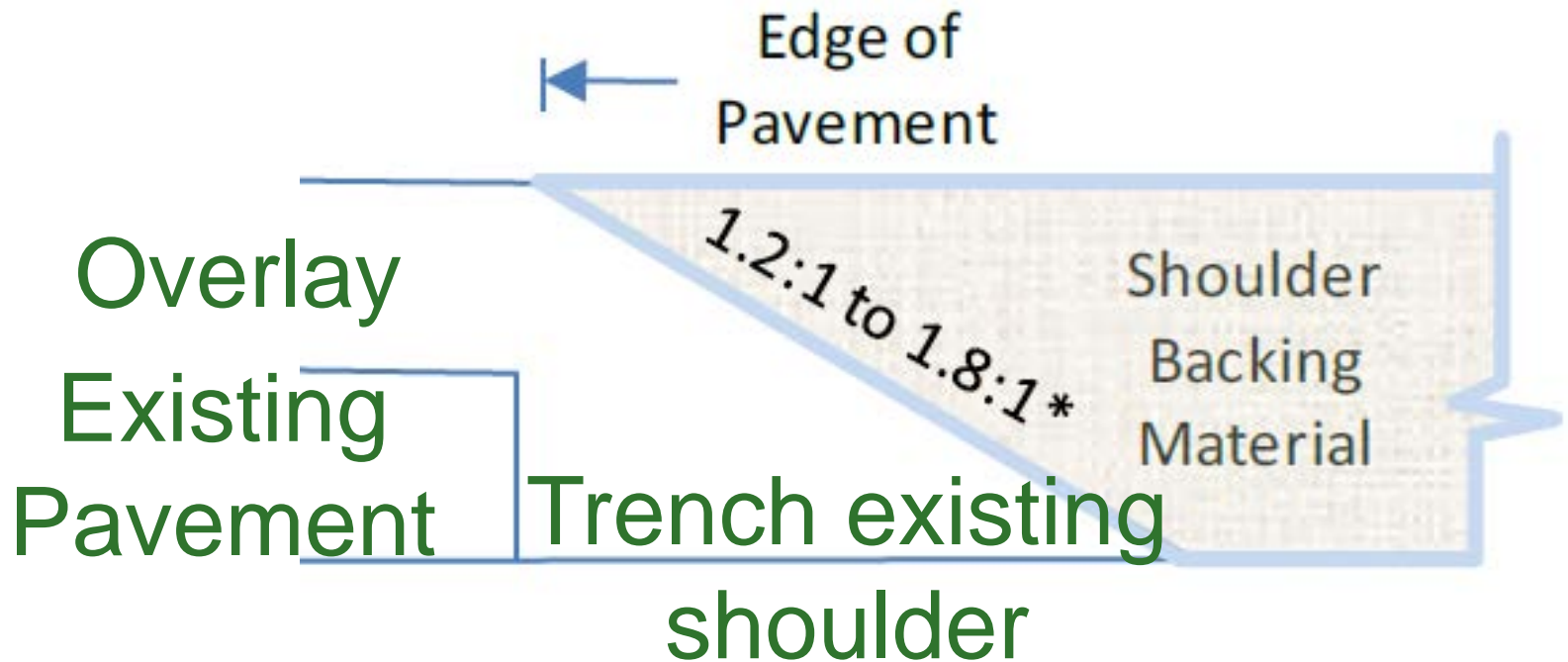


18 MILE ROAD (Primary w/ 1100 ADT)

- Single Course overlay
- Trenched existing shoulders to place safety edge



Safety Edge in Top Paving Course on Overlay Project







COST (2012)

Additional HMA

30 Tons per Mile/Side (3.5 inch Depth)

1 Mile Both Sides @ \$60/ton = \$3,600

Shoulder Trenching (if required)

Estimated Cost = \$2,000/mile



- Accident Reduction
- Less concern of Edge Drop
- May reduce edge cracking



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