

TECHNICAL REPORT TITLE PAGE

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3. TITLE AND SUBTITLE	4. TYPE OF REPORT & PERIOD COVERED
Improved Aggregate Gradation for Portland Cement Concrete Mixes	Final Report from 9-95 to 9-96

5. AUTHOR(S)	6. PERFORMING ORGANIZATION ADDRESS
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7. ACKNOWLEDGEMENT OF COOPERATING ORGANIZATIONS

8. ABSTRACT

Improving the aggregate gradation for a portland cement concrete mix may result in higher compressive strengths. With an improved gradation, the cement factor may be reduced to achieve a more economical concrete mix since cement is the most expensive component in a portland cement concrete mix. This project located on I-80 westbound in Scott County, Iowa examined three different mixes.

1. Standard Class C mix with project aggregates.
2. Standard Class C mix with an improved aggregate gradation.
3. Standard Class C mix with an improved aggregate gradation and 10% cementitious reduction.

9. KEY WORDS	10. NO. OF PAGES
Portland cement concrete Gradation	18