

TECHNICAL REPORT TITLE PAGE

1. REPORT NO.

HR-549

2. REPORT DATE

January 1998

3. TITLE AND SUBTITLE

Retaining Wall - Modular Unit
Reinforced Earth Tensar Geogrid
Reinforcement

4. TYPE OF REPORT & PERIOD COVERED

Final Report, 6-92 to 1-98

5. AUTHOR(S)

Maryann Shinrock

Mohammad Mujeeb

6. PERFORMING ORGANIZATION ADDRESS

City of Marion
195 35th Street
Marion, Iowa 52302

Iowa Department of Transportation
Materials Department
800 Lincoln Way
Ames, Iowa 50010

7. ACKNOWLEDGMENT OF COOPERATING ORGANIZATIONS

8. ABSTRACT

This research, initiated in October 1992, was located at the intersection of Blairs Ferry Road and Lindale Drive in the City of Marion. The wall is located on the southeast corner of the intersection. Reinforced retaining wall construction started with a five inch base of roadstone with one inch of sand for leveling purposes. One and one-half to two feet of one inch clean stone was placed behind the blocks. A four inch perforated plastic pipe was placed approximately nine inches from the bottom of the one inch clean stone. The Tenswal, tensar geogrid was placed at every third layer. Openings in the Tenswal are hooked over plastic dowels in the blocks. The tenswal reaches from the face of the wall back 5' to 8'. The cost for constructing this wall was \$124,400. The wall has performed well for the past five years. The wall improves the aesthetics of a high traffic volume intersection of an urban area. Many positive comments have been received by the city regarding its appearance. The City of Marion has been pleased with the wall and has used this type of wall on subsequent projects.

9. KEY WORDS

Reinforcement
Tenswal
Retaining wall
Geogrid

10. NO. OF PAGES

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