

# ALABAMA DEPARTMENT OF TRANSPORTATION

DATE: July 12, 2012

Special Provision No. 12-0351

EFFECTIVE DATE: November 1, 2012

SUBJECT: Steel Reinforcement.

Alabama Standard Specifications, 2012 Edition, SECTION 502 shall be amended as follows:

## SECTION 502 STEEL REINFORCEMENT

### 502.03 Construction Requirements.

#### (d) SPLICING AND LAPPING STEEL REINFORCEMENT.

##### 4. BUTT SPLICING.

*This Item [502.03(d)4] shall be replaced by the following:*

##### 4. BUTT SPLICING.

Reinforcing bars shall be butt spliced only when shown on the plans. The butt splice shall be a mechanical coupling splice.

The mechanical coupling shall be made with a coupler that can develop, in tension, at least 125 percent of the specified yield strength ( $f_y$ ) of the bar. The Contractor shall prepare three test splices using the proposed method of splicing and reinforcing bars obtained from the supplier of the reinforcing steel. These test splices and two unspliced bars will be tested by the Alabama Department of Transportation's Bureau of Materials and Tests. The tension tests will be performed on full cross section specimens in accordance with **ASTM E 8 {E 8M}**, using a gage length that spans the extremities of the connector. Complete details of the mechanical splice and the methods and equipment proposed for use in making the splice shall be submitted to the Department for approval.