### 1050404MM93V2 Materials Manual 9.3V2 COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (9-15-22 Industry)

9.3.6.8.3 - Recommend that slag substitution language be added for consistency with Materials Manual 9.2, as highlighted below:

## 9.3.6.8.3 Supplementary Cementitious Materials

Fly ash from an approved source may be substituted within an approved base mix design. The mix design may contain only one fly ash source. When a fly ash is substituted in the mix design, a new mix number will be issued for that mix.

Slag substitutions may be considered and approved with a Cementitious Memorandum.

Response: Agree

Action: The language was modified as proposed.

# 9.3.6.8.3 Supplementary Cementitious Materials

Fly ash from an approved source may be substituted within an approved base mix design. The mix design may contain only one fly ash source. When a fly ash is substituted in the mix design, a new mix number will be issued for that mix.

Slag substitutions may be considered and approved with a Cementitious Memorandum.

9.3.7.1 – For consistency with Materials Manual 9.2, the second sentence applies only to durability. Recommend that the portion highlighted below be removed:

### 9.3.7.1 Acceptance of concrete at 56 days

The Department may approve specific mix designs for acceptance at 56 days. The mix design shall meet the compressive strengths and durability requirements at 56 days when specified in the Contract Documents. Submit the strength development plot (concrete cylinder compressive strength versus concrete age) for test cylinder ages of 3, 7, 28 and 56 days. Mix designs meeting the overdesign requirements at 28 days will not be approved.

Response: Agree

Action: The language was modified as proposed.

#### 9.3.7.1 Acceptance of concrete at 56 days

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#### 9.2.7.2 Concrete mixes with reduced total cementitious materials content

The Department may approve Class I (Pavement) mix designs with the amount of total cementitious materials content below the minimum required in **Specification Section 346** provided the mix meets the required compressive strength (**f'cr**)requirement.