

## SECTION 03575

# FLOWABLE FILL

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Materials and procedures for placing flowable fill.

#### 1.2 REFERENCES

- A. AASHTO M 154: Air-Entraining Admixtures for Concrete
- B. AASHTO M 194: Chemical Admixture for Concrete
- C. ASTM C 150: Portland Cement
- D. ASTM C 618: Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Concrete
- E. ASTM D 4832: Preparation and Testing of Controlled Low Strength Material (CLSM) Test

#### 1.3 SUBMITTALS

- A. Batch Proportions: Submit to Engineer seven days before placement.
- B. Trial Batch:
  - 1. Submit certified test results or conduct laboratory trial batch to verify strength prior to placement.
  - 2. The Department or its representative witnesses the trial batch.

## **PART 2 PRODUCTS**

### **2.1 MATERIALS**

- A. Portland Cement: ASTM C 150.
- B. Pozzolan: ASTM C 618.
- C. Sand.
- D. Coarse aggregate: Determine a suitable aggregate size and gradation for the intended application.
- E. Admixtures:
  - 1. Water reducers and set accelerators: AASHTO M 194.
  - 2. Air entrainment: AASHTO M 154.

## **PART 3 EXECUTION**

### **3.1 INSTALLATION**

- A. Combine materials to meet the requirements for strength and constructability as required. Determine strength from trial batches at 28 days.
  - 1. Minimum strength: 50 psi. ASTM D 4832.
  - 2. Maximum strength: 150 psi. ASTM D 4832.
  - 3. Slump: 5 inches to 10 inches.
- B. Determine a suitable aggregate size and gradation for the intended application.

END OF SECTION