

MICHIGAN  
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION  
FOR  
**HIGH PERFORMANCE PORTLAND CEMENT CONCRETE (GRADE DM)  
DOUBLE FACE CONCRETE BARRIER**

xxx:YYY

1 of 1

APPR:xxx:YYY:00-01-17  
FHWA:APPR:00-01-17

**a. Description.** This work consists of constructing double face concrete barrier in accordance with section 804 of the Standard Specifications for Construction, the plans, and this special provision. Provide high performance Portland cement concrete, Grade DM, in accordance with the requirements of the contract, except where modified herein.

**b. Materials.** Provide materials in accordance with section 804 of the Standard Specifications for Construction, except as modified herein.

Provide concrete Grade DM meeting the requirements of this special provision for constructing concrete barrier and barrier footings. Concrete Grade DM requires optimized aggregate gradation and 25 to 40 percent replacement of the Portland cement in the concrete mixture with a supplementary cementitious material (slag cement, fly ash). Provide concrete Grade DM with a lower specification limit (LSL, 28-day compressive strength) of 6,500 psi. Do not use other concrete Grades or Types in lieu of Grade DM. Prepare the optimized aggregate gradation and perform process control according to the procedure for Optimized Aggregate Gradation included in the contract.

Provide epoxy coated steel reinforcement in accordance with section 905 of the Standard Specifications for Construction.

**c. Construction.** Construct concrete barrier in accordance with subsection 804.03 of the Standard Specifications for Construction and as shown on the plans.

**d. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

<b>Pay Item</b>	<b>Pay Unit</b>
Conc Barrier, Double Face, High Performance .....	Foot

**Conc Barrier, Double Face, High Performance** include all work and materials required to construct the barrier, and will be measured as described in subsection 804.04 of the Standard Specifications for Construction. The unit price includes the cost of providing and placing steel reinforcement, constructing joints, curing and protecting the concrete, constructing barrier transition sections, and constructing concrete barrier footings, including end section footings.