

## MISCELLANEOUS PRECAST CONCRETE PRODUCTS

### **CERTIFIED ACCEPTANCE PROCEDURE:**

Eagle Vault Co.	Ruston, LA.
Hanson Pipe and Products, Inc.	Grand Prairie, TX
Hanson Pipe and Products, Inc.	Little Rock, AR.
IMC-Willbert (Division of Suhor Industries)	Parsons, KS.
Peterson Concrete	North Little Rock, AR.
Peterson Concrete, Inc.	Russellville, AR.
Rose Concrete Products, Inc.	Scott City, MO
Scurlock Industries	Fayetteville, AR.
	Jonesboro, AR.
	Springfield, MO.
Vanguard Precast Corp.	Topeka, KS.
/ Oldcastle Precast, Inc.	

### **FINAL ACCEPTANCE PROCEDURE:**

Hanson Pipe and Products, Inc.	Ft. Smith, Little Rock & West Memphis, AR Como, Hattiesburg, & Jackson, MS
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Miscellaneous precast concrete products include *precast concrete flared end sections, curtain walls, cattle passes, underdrain outlet protectors, drop inlets, junction boxes, pull boxes, and spring boxes.*

### **METHODS OF DOCUMENTATION OF ACCEPTANCE:**

**CERTIFIED ACCEPTANCE PROCEDURE:** Accepted for use on Department projects based on a Certificate of Delivery furnished by the manufacturer to the Resident Engineer. Each piece shall bear a cast date and identification number. The Resident Engineer shall check the condition of the precast products delivered and also verify the products delivered.

**FINAL ACCEPTANCE PROCEDURE:** Accepted for use on Department projects based on an inspection by authorized AHTD personnel and a Certificate of Delivery furnished by the manufacturer to the Resident Engineer. Each piece shall bear a cast date and an identification number and shall be stamped by an AHTD inspector or represented by an approved test report from the Materials Division.

**PROCEDURE AGREEMENT:** The above listed manufacturers have agreed to the requirements for certification and inspection according to one of the following two (2) procedures.

## ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT

### CERTIFICATION ACCEPTANCE PROCEDURE FOR MISCELLANEOUS PRECAST CONCRETE PRODUCTS

The following outlines the procedure to provide quality control of miscellaneous precast concrete products to assure they meet Arkansas Highway and Transportation Department specifications. This procedure is applicable to precast concrete flared end sections, curtain walls, cattle passes, underdrain outlet protectors, drop inlets, junction boxes, and pull boxes.

#### **CERTIFICATION ACCEPTANCE PROCEDURE**

Qualification of precast concrete manufacturers is based on a plant inspection prior to casting operations to determine their capability of producing a uniform product in compliance with AHTD Standard Specifications, Design Drawings, and other referenced specifications. Items covered in this inspection will include materials storage, scales, batch plants, casting forms, testing facilities, and quality control.

The manufacturer shall have a Quality Control program whereby representative samples of raw materials (cement, aggregates, reinforcement) are tested and/or reviewed for conformity to specifications. In addition, quality control tests (slump, compressive strength, and gradations, as applicable) shall be conducted by the manufacturer during casting operations. Quality control tests shall be conducted in accordance with the AHTD Manual of Field Sampling and Testing Procedures. The frequency of quality control tests shall be one (1) set of tests per lot (20 units) or portion thereof for each type product. If the mix design for a product changes during the weekly time period or within a lot of 20 units, each mix shall require separate quality control tests.

Records of materials used in the manufacture of precast units and quality control tests shall be maintained by the manufacturer. The State shall reserve the right to review records for compliance with AHTD and referenced specifications and to reject any non-conforming units. Miscellaneous precast items furnished in accordance with the Certification Acceptance Procedure shall not be shipped nor incorporated into the job until all testing has been completed. Copies of the manufacturer's record shall be provided to the Engineer upon request.

The state shall reserve the right to observe all manufacturing processes and conduct random quality assurance tests to determine compliance. If deemed necessary, drilled cores shall be taken at the direction of the Engineer to verify the compressive strength.

All precast units manufactured for use on AHTD projects under this procedure shall be legibly marked with the cast date and a distinct identification number.

**CERTIFICATION ACCEPTANCE PROCEDURE(continued)**

The manufacturer shall furnish a Certificate of Delivery for each shipment, stating that the listed products conform to AHTD Specifications and other referenced specifications. It shall also state that the products are being furnished in accordance with the Certification Acceptance Procedure. The information on the Certificate of Delivery shall include the state job number (or state purchase order number), consignee, destination, sizes, class, lengths, number of pieces, cast date, identification number, and plant of origin. One copy of the Certificate of Delivery and shipping papers shall be furnished to the Resident Engineer. *When miscellaneous precast concrete products are shipped to a third party and then supplied to a Contractor for a Department project, a copy of the manufacturer's Certificate of Delivery shall be furnished to the Resident Engineer.*

All iron and steel material used on Department projects must be in compliance with "Buy America" requirements and the Department's "Standard Specifications for Highway Construction", Subsection 106.01. This means all manufacturing processes of the iron or steel in a product(i.e., smelting/remelting, and any subsequent process which alters the steel material's physical form or shape or changes its chemical composition) must occur within the United States to be considered of domestic origin. This includes processes such as rolling, extruding, machining, bending, grinding, drilling, and applying coatings. The use of pig iron or processed, pelletized, and reduced iron ore manufactured outside of the United States is permitted in the domestic manufacturing process for steel and/or iron materials. All steel mill test reports will contain a statement certifying that all manufacturing processes for the steel occurred in the United States. Each supplier/fabricator of an intermediate product will also certify that the product complies with "Buy America" requirements.

Failure of the Manufacturer to comply with this procedure may be considered sufficient reason to terminate this agreement. In the event this agreement is terminated, approval of miscellaneous precast concrete products will be by Final Inspection Procedure.

We elect to use the Certification Acceptance Procedure. All products produced under this agreement and delivered to the Arkansas Highway and Transportation Department will conform to AHTD Specifications and other referenced specifications.

COMPANY \_\_\_\_\_ DATE \_\_\_\_\_

SIGNED \_\_\_\_\_

We elect not to use the Certification Acceptance Procedure

COMPANY \_\_\_\_\_ DATE \_\_\_\_\_

SIGNED \_\_\_\_\_

**ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT****FINAL INSPECTION PROCEDURE  
FOR MISCELLANEOUS PRECAST CONCRETE PRODUCTS**

The following outlines a procedure to provide quality assurance of miscellaneous precast concrete products to insure they meet Arkansas Highway and Transportation Department specifications. This procedure is applicable to precast concrete flared end sections, curtain walls, cattle passes, underdrain outlet protectors, drop inlets, junctions boxes, and pull boxes. This procedure shall be used by manufacturers who choose not to furnish these items in accordance with the Certification Acceptance Procedure or who are judged as unqualified to furnish precast products under the Certification Acceptance Procedure.

**FINAL INSPECTION PROCEDURE**

Precast units shall be visually inspected and tested at the manufacturing plant, storage yard, or at the jobsite, as directed by the Engineer.

All precast units manufactured for use on AHTD projects under this procedure shall be legibly marked with the cast date and a distinct identification number.

Sampling and testing of raw materials (cement, aggregates, reinforcement, water) and quality control tests (slump, compressive strength) shall be conducted, as directed by the Engineer, in accordance with the AHTD Manual of Field Sampling and Testing Procedures. At the discretion of the Engineer, drilled cores shall be taken at a frequency of one core per 10 units per precast product per size or portion thereof. Cores shall be taken and tested at no cost to the Department. Testing of drilled cores shall be by an approved independent testing laboratory, by the manufacturer and witnessed by the Department, or by the Department, if deemed appropriate by the Engineer. The state shall reserve the right to observe all manufacturing processes.

All iron and steel material used on Department projects must be in compliance with "Buy America" requirements and the Department's "Standard Specifications for Highway Construction", Subsection 106.01. This means all manufacturing processes of the iron or steel in a product (i.e., smelting/remelting, and any subsequent process which alters the steel material's physical form or shape or changes its chemical composition) must occur within the United States to be considered of domestic origin. This includes processes such as rolling, extruding, machining, bending, grinding, drilling, and applying coatings. All steel mill test reports will contain a statement certifying that all manufacturing processes for the steel occurred in the United States. Each supplier/fabricator of an intermediate product will also certify that the product complies with "Buy America" requirements.

**FINAL INSPECTION PROCEDURE (continued)**

Miscellaneous precast items furnished in accordance with the Final Inspection Procedure shall not be shipped nor incorporated into the job until all testing and inspection has been completed. Units found to be in compliance with specifications will be stamped with an AHTD approval stamp or represented by an approved test report from the Materials Division.

The manufacturer shall furnish a Certificate of Delivery for each shipment, stating that listed materials have been inspected and approved by an authorized AHTD inspector and that the products conform to AHTD Specifications. It shall also state that the products are being furnished in accordance with the Final Inspection Procedure. The information on the Certificate of Delivery shall include the state job number (or state purchase order number), consignee, destination, sizes, class, lengths, number of pieces, cast date, identification number, and plant of origin. One copy of the Certificate of Delivery and shipping papers shall be furnished to the Resident Engineer. *When miscellaneous precast concrete products are shipped to a third party and then supplied to a Contractor for a Department project, a copy of the manufacturer's Certificate of Delivery shall be furnished to the Resident Engineer.*

We elect to use the Final Inspection Procedure

DATE \_\_\_\_\_

COMPANY \_\_\_\_\_

SIGNED \_\_\_\_\_

We elect not to use the Final Inspection Procedure

DATE \_\_\_\_\_

COMPANY \_\_\_\_\_

SIGNED \_\_\_\_\_