



*Florida Department of Transportation*

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GOVERNOR

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ANANTH PRASAD, P.E.  
SECRETARY

July 15, 2014

Khoa Nguyen  
Director, Office of Technical Services  
Federal Highway Administration  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

Re: State Specifications and Estimates Office  
Section **449**  
Proposed Specification: **4490100 Precast Concrete Drainage Products.**

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

These changes were proposed by Chase Knight of the Department's State Materials Office (SMO) to update the language for consistency with other sections regarding certification requirements for structures, to add liner repair systems to 449-2, and for formatting.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965DS or [daniel.scheer@dot.state.fl.us](mailto:daniel.scheer@dot.state.fl.us).

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Daniel Scheer, P.E.  
State Specifications Engineer

DS/dt

Attachment

cc: Florida Transportation Builders' Assoc.  
State Construction Engineer

## PRECAST CONCRETE DRAINAGE PRODUCTS.

(REV ~~3-20-145-12-14~~)

SUBARTICLE 449-1 is deleted and the following substituted:

### 449-1 Description.

Precast concrete drainage products hereinafter called products, may include but are not limited to, round concrete pipe, elliptical concrete pipe, underdrains, manholes, endwalls, inlets, junction boxes, three-sided precast concrete culverts, and precast concrete box culverts.

Ensure that all precast drainage products are designed and manufactured in accordance with the requirements of the Contract Documents.

Obtain precast concrete pipes, box culverts, and drainage structures from a plant that is currently on the Department's list of Producers with Accepted Quality Control Programs. Producers seeking inclusion on the list shall meet the requirements of 105-3.

At the beginning of each project, provide a notarized *certification* statement to the Engineer from a company designated representative certifying that the plant will manufacture the products in accordance with the requirements set forth in the Contract Documents and plant's Quality Control (QC) Plan. The Quality Control Manager's stamp on each product indicates certification that the product was fabricated in conformance with the Contractor's QC Plan, the Contract, and this Section. Ensure that each shipment of precast concrete products to the project site is accompanied with a QC signed or stamped delivery ticket providing the description and the list of the products.

*When the producer's Quality Control Program is suspended by the Department, Accept* responsibility of either obtaining products from a plant with an approved Quality Control Program, or await re-approval of the plant, ~~when the plant's Quality Control Program is suspended by the Department.~~

— The Engineer will not allow changes in Contract time or completion dates as a result of the plant's loss of qualification. Accept responsibility for all delay costs or other costs associated with the loss of the plant's qualification.

SUBARTICLE 449-2 is deleted and the following substituted:

### 449-2 Materials.

Ensure that the materials used for the construction of the precast drainage products have a certification statement from the source, showing that they meet the applicable requirements of the Specifications with the following modifications:

Reinforcing Bar.....	Section 415
Coarse Aggregate* .....	Section 901
Fine Aggregate* .....	Section 902
Portland Cement and blended cement.....	Section 921
Water.....	Section 923
Admixtures.....	Section 924
Pozzolans and slag .....	Section 929
Gasket Material .....	Section 942
Blended Hydraulic Cements .....	AASHTO M 240
Welded Wire Reinforcement .....	Section 931
Wire for Site Cage Machines .....	Section 931
<i>Liner Repair Systems .....</i>	<i>Section 948</i>

\*For concrete pipes the gradation requirements of concrete aggregates as set forth in Sections 901 and 902 are not applicable.

**PRECAST CONCRETE DRAINAGE PRODUCTS.**  
**(REV 5-12-14)**

SUBARTICLE 449-1 is deleted and the following substituted:

**449-1 Description.**

Precast concrete drainage products hereinafter called products, may include but are not limited to, round concrete pipe, elliptical concrete pipe, underdrains, manholes, endwalls, inlets, junction boxes, three-sided precast concrete culverts, and precast concrete box culverts.

Ensure that all precast drainage products are designed and manufactured in accordance with the requirements of the Contract Documents.

Obtain precast concrete pipes, box culverts, and drainage structures from a plant that is currently on the Department's list of Producers with Accepted Quality Control Programs. Producers seeking inclusion on the list shall meet the requirements of 105-3.

At the beginning of each project, provide a notarized certification statement to the Engineer from a company designated representative certifying that the plant will manufacture the products in accordance with the requirements set forth in the Contract Documents and plant's Quality Control (QC) Plan. The Quality Control Manager's stamp on each product indicates certification that the product was fabricated in conformance with the Contractor's QC Plan, the Contract, and this Section. Ensure that each shipment of precast concrete products to the project site is accompanied with a QC signed or stamped delivery ticket providing the description and the list of the products.

When the producer's Quality Control Program is suspended by the Department, accept responsibility of either obtaining products from a plant with an approved Quality Control Program, or await re-approval of the plant. The Engineer will not allow changes in Contract time or completion dates as a result of the plant's loss of qualification. Accept responsibility for all delay costs or other costs associated with the loss of the plant's qualification.

SUBARTICLE 449-2 is deleted and the following substituted:

**449-2 Materials.**

Ensure that the materials used for the construction of the precast drainage products have a certification statement from the source, showing that they meet the applicable requirements of the Specifications with the following modifications:

Reinforcing Bar.....Section 415  
Coarse Aggregate\* .....Section 901  
Fine Aggregate\* .....Section 902  
Portland Cement and blended cement.....Section 921  
Water.....Section 923  
Admixtures.....Section 924  
Pozzolans and slag .....Section 929  
Gasket Material .....Section 942  
Blended Hydraulic Cements .....AASHTO M 240  
Welded Wire Reinforcement .....Section 931  
Wire for Site Cage Machines .....Section 931  
Liner Repair Systems .....Section 948

\*For concrete pipes the gradation requirements of concrete aggregates as set forth in Sections 901 and 902 are not applicable.