

ORIGINATION FORM
Proposed Revisions to the Specifications

Date:

Specification Section:

Originator:

Articles/Subarticles:

Telephone:

email:

Why does the existing language need to be changed?

Summary of the changes:

Are these changes applicable to all Department jobs? Yes No
If not, what are the restrictions?

Will these changes result in an increase or decrease in project costs? Yes No
If yes, what is the estimated change in costs?

With who have you discussed these changes?

What other offices will be impacted by these changes?

Will this revision necessitate changes to the following: BOE PPM SDG CPAM

Design Standards List Affected Index Nos.

Other manual?

Are all references to external publications current? Yes No
If not, what references need to be updated (please include changes in the redline)?

Will this revision necessitate any of the following:

Design Bulletin

Construction Bulletin

Estimates Bulletin

Contact the State Specifications Office for assistance in completing this form.

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ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: December 5, 2014

TO: Specification Review Distribution List

FROM: Daniel Scheer, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **9490000 Miscellaneous Components for Manholes, Inlets and Other Structures.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

The changes are proposed by Larry Ritchie of the State Construction Office to incorporate manhole adjustment notes found in Standard Index 201 into specification and include the use of composite rubber adjustment rings for manhole adjustment.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or online at <http://www2.dot.state.fl.us/SpecificationsEstimates/Development/IndustryReview.aspx> . Comments received after **January 2, 2014**, may not be considered. Your input is encouraged.

DS/ot
Attachment

MISCELLANEOUS COMPONENTS FOR MANHOLES, INLETS, AND OTHER STRUCTURES.

(REV ~~11-19~~**12-5-14**)

SECTION 949 is deleted and the following substituted:

SECTION 949

~~BRICK AND CONCRETE MASONRY UNITS~~**MISCELLANEOUS COMPONENTS FOR MANHOLES, INLETS AND OTHER STRUCTURES**

949-1 Clay Brick and Shale Brick.

This brick shall meet the requirements of ASTM C-62, Grade MW or ASTM C-32, Grade MM.

949-2 Concrete Brick.

Concrete brick shall meet the requirements of ASTM C-55.

949-3 Concrete Masonry Units.

Concrete masonry units for use in manholes, inlets and similar structures shall meet the requirements of ASTM C 139.

949-4 Precast Grade Adjustment Rings.

Precast grade adjustment rings shall meet the requirements of ASTM- C-478.

949-5 Composite Rubber Adjustment Rings.

Composite rubber adjustment rings shall meet the following minimum material requirements:

<i>Physical Properties</i>	<i>Requirements</i>	<i>Test Method</i>
<i>Density, lb.s/cubic ft.ft³</i>	<i>65 ± 5%</i>	<i>ASTM- D 3574-05, Test A</i>
<i>Durometer Hardness, Molded Surfaces</i>	<i>75 ± 10</i>	<i>ASTM D 2240-05</i>
<i>Tensile Strength, psiMolded Surfaces</i>	<i>145 (-psi minimum)75 ± 10</i>	<i>ASTM D 412-06ASTM D-2240-05</i>
<i>Ultimate Elongation %Tensile Strength</i>	<i>15 ± 5145 psi min</i>	<i>ASTM D 412-06ASTM D-412-06</i>
<i>Compression Deformation %, InitialUltimate Elongation %</i>	<i>6 ± 215 ± 5</i>	<i>ASTM D 575-91(01)</i>
<i>Compression Deformation</i>		
<i>Compression Deformation %, FinalInitial Compression Deformation %</i>	<i>6 ± 26 ± 2</i>	<i>ASTM D 575-91(01)ASTM D-575-91(01)</i>
<i>Coefficient of Thermal ExpansionFinal Compression Deformation %</i>	<i>10x10⁻⁵ ± 5x10⁻⁵6 ± 2</i>	<i>ASTM E 831-05</i>

949-4.6 Acceptance.

Provide the Engineer a certification from the manufacturer stating that the bricks, *concrete masonry units, precast grade adjustment rings* or ~~concrete masonry units~~*composite rubber adjustments rings* meet the requirements of this Section. Acceptance of materials will be in accordance with Section 6.