



Florida Department of Transportation

**RICK SCOTT**  
**GOVERNOR**

605 Suwannee Street  
Tallahassee, FL 32399-0450

**ANANTH PRASAD, P.E.**  
**SECRETARY**

November 22, 2013

Chad Thompson  
Programs Operations Engineer  
Federal Highway Administration  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

Re: State Specifications and Estimates Office  
Section **901**  
Proposed Specification: **9010102 Coarse Aggregate.**

Dear Mr. Thompson:

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

These changes were proposed by Ghulam Mujtaba of the State Materials Office to update the language for current industry practice.

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.

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/cah

Attachment

cc: Florida Transportation Builders' Assoc.  
State Construction Engineer

**COARSE AGGREGATE.**  
**(REV 10-16-13)**

SUBARTICLE 901-1.2 is deleted and the following substituted:

**901-1.2 Deleterious Substances:** All coarse aggregates shall be reasonably free of clay lumps, soft and friable particles, salt, alkali, organic matter, adherent coatings, and other substances not defined which may possess undesirable characteristics. The weight of deleterious substances shall not exceed the following percentages:

Coal and lignite (AASHTO T 113).....	1.00
Soft and friable particles (AASHTO T 112)* .....	2.00
Clay lumps (AASHTO T 112)* .....	2.00
Plant root matter (visual inspection in AASHTO T 27)**** .....	0.005
Wood and wood matter (visual inspection in AASHTO T 27)**** .....	0.005
Cinders and clinkers.....	0.50
Free shell** .....	1.00
Total Material passing the No. 200 sieve (FM 1-T 011) At Source with Los Angeles Abrasion less than or equal to 30 .....	2.50
At Source with Los Angeles Abrasion greater than 30.....	1.75
At Point of Use.....	3.75
Fine-Grained Organic Matter (AASHTO 194).....	0.03
Chert (less than 2.40 specific gravity SSD) (AASHTO T-113)*** .....	3.00

\* The maximum percent by weight of soft and friable particles and clay lumps together shall not exceed 3.00.

\*\* Aggregates to be used in asphalt concrete may contain up to 5% free shell. Free shell is defined as that portion of the coarse aggregate retained on the No. 4 sieve consisting of loose, whole, or broken shell, or the external skeletal remains of other marine life, having a ratio of the maximum length of the particle to the shell wall thickness exceeding five to one. Coral, molds, or casts of other shells, and crushed clam and oyster shell indigenous to the formation will not be considered as free shell.

\*\*\* This limitation applies only to coarse aggregates in which chert appears as an impurity. It is not applicable to aggregates which are predominantly chert.

\*\*\*\* Plant root matter, and wood and wood matter shall be considered deleterious when any piece exceeds two inches in length or 1/2 inch in width.

The weights of deleterious substances for reclaimed Portland cement concrete aggregate shall not exceed the following percentages:

Bituminous Concrete .....	1.00
Bricks .....	1.00
Wood and other organic substances (by weight)***** .....	0.1
Reinforcing Steel and Welded Wire <i>Reinforcement Fabric</i> .....	0.1
Plaster and gypsum board .....	0.1

Joint Fillers.....0.1  
\*\*\*\*\* Supersedes requirement for other coarse aggregate

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