

## 407000 Industry Review Comments

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Bob Dion

**COMMENT:**

Suggest you move the second paragraph of 407-14 to become the second paragraph of 407-15; begin it with ' As an exception to the above...'. Or delete the second paragraph of 407-14.

At present the cost of footings etc is included in the cost of 3 sided culverts per 407-15.

**RESPONSE:**

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Tim Grimm

**COMMENT:**

Regarding Section 407-9-12. It mentions using either a precast concrete footing or preparing a 4" layer of compacted granular bedding material. Sometimes, even when dewatering, the soil is so wet that you cannot get densities and unless you would use the precast footing, contractors may want to use #57 stone. This is commonly done in wet areas and might need mentioning in this section.

**RESPONSE:**

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Ghulam Mujtaba:

**COMMENT:**

1 Page 4-Last paragraph: The Subarticle number has been typed as 102-8.6407-7. Change it to "407-7"

2. page 5, top of the page: Change "1 1/2 inch to 1 1/2 inches" or all units should be changed to "in".

3. Page 5, Subarticle 407-7.4.1: Change : "not -less than" to "not less than".

4. Page 7, Section 4 07-9-12, Second paragraph: Change "3 inch deep" to "3-inch deep". The training and qualification requirements of the QC personnel should be in Volume II , not Volume I.

I recommend the deletion of all URL addresses, except in 407-1.

The following are the recommended changes:

Perform all concrete quality control testing and inspections in accordance with 346-9.2. The Department will perform the verification inspection and testing, ~~as described in Section 6.3 of the Materials Manual, which is available at the following URL: [www.dot.state.fl.us/specificationsoffice/materialsmanual/section63.pdf](http://www.dot.state.fl.us/specificationsoffice/materialsmanual/section63.pdf).~~

For training and other qualification requirements of QC personnel, ~~m~~Meet the requirements of Subarticle 105-5. ~~and Section 6.3, Volume I, of the Materials Manual, which is available at the following URL: [www.dot.state.fl.us/specificationsoffice/materialsmanual/section63.pdf](http://www.dot.state.fl.us/specificationsoffice/materialsmanual/section63.pdf) for training and other qualification requirements of QC personnel.~~ Test all QC samples for compressive strength in a laboratory meeting the requirements of Article 6-9.

**407-4.2 Quality Assurance Inspection and Testing:** The Engineer will perform periodic inspections, sampling, and testing to ensure of the quality and acceptability of the materials, methods, techniques, procedures and processes being utilized by the manufacturing facility in the fabrication of precast concrete culverts. ~~The quality assurance inspection and testing will be performed in accordance with Section 6.3, Volume I, of the Materials Manual, which is available at the following URL: [www.dot.state.fl.us/specificationsoffice/materialsmanual/section63.pdf](http://www.dot.state.fl.us/specificationsoffice/materialsmanual/section63.pdf).~~

The strike-through texts are the recommended deletions.

RESPONSE:

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Rod Powers:

COMMENT:

This specification opens the VECP door to the use of three sided precast box culverts. It also eliminates the restriction against using these in moderately and extremely aggressive environments. This appears as an invitation to contractor's to propose VECP's for three-sided precast box culverts in all environments. This would require that each proposal be reviewed taking in corrosion considerations, among other things. We would need to make sure that those considering VECP's are aware of the need for durability/corrosion review.

Somehow it seems that it would be best to develop standards for 3-sided box culverts so as to eliminate the need for, cost and risk of a VECP.

RESPONSE:

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Brad Boulton

COMMENT:

Section 407-3 excludes use of 3 sided structures in lieu of four sided culverts, however may be considered as a VECP. As a alternate to 4 sided culverts the 3 sided precast

culvert systems should not be limited to implementation through the VECP process. Three sided structures meet the VECP criteria for a. reduced construction cost and b. reduced collateral costs. The acceptance of a VECP is "at the discretion of the Engineer". The Engineer should have that same discretion during project design, and utilize the design up front. The VECP can cause additional cost and time delays

**RESPONSE:**

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