

1250801 EXCAVATION FOR STRUCTURES AND PIPE  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Andy Harper

Comments: (6-6-12)

I have a question on this revision. On 125-9 we change the wording from two (horizontal) to one (vertical) to one (vertical) to two (horizontal) being an old roadway inspector we always referred to it as two to one, if I am not wrong the CTQP Training class also says two to one. It's understandable because of the insertion of the (horizontal and vertical) wording. I was just wondering why it is now being changed.

~~Response: -Regarding your comment and as we discussed, the change to 125-9.2.2 reflects the nomenclature found through research of the contract and design documents. It seemed reasonable to match this language. Spec change for 125-9.2.2 has been removed.~~

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Powell, Jr., Rudy

Comments: (6-7-12) I don't see the need to make the changes to 125-9.2.2 because the current language specifies horizontal and vertical.

Response: See response above.

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David A. Sadler, P.E.  
(850)414-5203

Comments: (6-8-12) Why is the added statement, "Backfill for structures and plastic or metal pipe compacted in one operation will be considered as separate LOTs within the cover zone." limited to just plastic or metal pipe types?

Response: *The density requirement for concrete pipe is the same as for structures. Because the density requirements are the same no separate test is required when compacted in one operation. No Change Made.*

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Burton, Benjamin  
[Benjamin.Burton@dot.myflorida.com](mailto:Benjamin.Burton@dot.myflorida.com)

Comments: (6-19-12) I found the added language confusing. It kind of sounds like you're compacting metal pipe. I would suggest the following to help clear it up.

**Existing proposed new language:**

*Backfill for structures and plastic or metal pipe compacted in one operation will be considered as separate LOTs within the cover zone.*

**Alternate 1:**

*Backfill, for structures and plastic or metal pipe, compacted in one operation will be considered as separate LOTs within the cover zone.*

**Alternate 2:**

*Backfill compacted for structures and plastic or metal pipe in one operation will be considered as separate LOTs within the cover zone.*

*Response: The wording proposed in alternate 1 will be used. "Backfill, for structures and plastic or metal pipe, compacted in one operation will be considered as separate LOTs within the cover zone. " No Change Made.*

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Douglas J Holdener  
[douglasj.holdener@cemex.com](mailto:douglasj.holdener@cemex.com)

Comments: (7-9-12)

I am seeking clarification on the proposed change to Section 125. I tried sending an earlier email to you, but it bounced back. If you have received multiple emails from me, please forgive me for the barrage.

Along with several contractors, we have been reviewing the proposed Section 125 change (*Backfill for structures and plastic or metal pipe compacted in one operation will be considered as separate LOTs within the cover zone.* ). Is this related to 95% compaction of flexible pipe and 100% compaction of structures? There is some confusion as to what the proposed statement actually means. Would you have an opportunity to clarify what changes this would translate to for contractors and CEIs?

*Response: This language clarifies the intent that densities are obtained or plastic/metal pipe and the concrete structure to ensure the 95% and 100% percent of standard proctor is met respectively. No Change Made.*

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Bruce Wendorf  
[bruce@forsbergconstruction.com](mailto:bruce@forsbergconstruction.com)

Comments: (7-12-12)

It is presumed that the added language to this section serves to distinguish between the density requirements of optional materials and concrete pipe. In accordance with Section 125-9.2.1 Density, optional storm pipe materials only require 95% of the Standard Proctor maximum density. However, concrete pipe requires 100% of the Standard Proctor maximum density. The density requirements for all pipes should be the same to insure uniform compaction of the road template. Why is there a difference in the level of compaction between optional materials and concrete pipe?

*Response: The difference between density requirements for rigid and flexible pipe types is based on their materials. Flexible pipe types rely on the soil profile for their structural stability whereas rigid pipe's stability is due to its materials and construction. Compacting the pipe backfill to 100% on a flexible pipe type may damage the pipe at its haunches due to its flexible nature. The soil may push against the pipe with enough force to deform the pipe and introduce a creep-rupture mechanism into the pipe/soil system. Excessive deformation as well as pipe creep/rupture may cause the pipe to fail prematurely. No Change Made..*

1250801

All Jobs

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