

4550510 STRUCTURES FOUNDATIONS
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Greg Davis (Missy Hollis)

Comment: (12-2-10, Internal)

Greg,

I'm OK with adjusting the length for piling. Depending on what is finally approved, I can either summarize the changes in the BOE, or indicate "refer to the specifications for adjustments due to"

I do have a different concern. In 455-5.13, the proposed spec allows for either EDC or instruments for dynamic load testing. If the contractor is given the choice, we probably shouldn't have a separate pay item for only EDC. The Structures Bulletin is located at <http://www.dot.state.fl.us/structures/Memos/TemporaryDesignBulletinC10-02.pdf>
The spec requirements are in 455-10.2, which is not included in this proposed Special Provision, but is in the workbook at <ftp://ftp.dot.state.fl.us/LTS/CO/Specifications/WorkBook/Jan2011/SP4550510A.pdf>
We have 100+ bridges with the EDC pay item loaded over the next 2 years.

Options might include no separate payment for either instrument, or a single pay item to cover both types of instruments.

Overall, the proposed spec seems to conflict with existing spec SP4550510A.pdf

Response:

MAN04 FOR THE JANUARY 2011 WB: New SP4550512 only requires EDCs in test piles. Revised SP4550510A (projects with test piles) and revised SP4550510B (projects without test piles) require the use of EDCs in production and/or test piles and will be used only when authorized by the State Geotechnical Engineer.

SP4550512, SP4550510A and 4550510B will be used through the June 2011 lettings (expires 6-30-11) and will provide for payment for the number of EDCs actually installed, completed and accepted in projects.

FOR THE JULY 2011 WB: New SS4550510 will give the Contractor the option of using either EDCs or externally connected instruments for dynamic load testing on test piles, with no separate payment for the option chosen.

The use of EDC's in production piles will be addressed project by project.

Wing Heung

954-934-1154

Wing.Heung@dot.state.fl.us

Comments (12-10-10)

Something needs to be reviewed in 455-11.5. Let us assume a situation with 3 set-checks performed within 2 days after initial driving.

"No additional payment for attaching equipment will be made for additional set checks performed within two days of the initial driving" suggests that there will be no payment for the third set-check. The *"additional"* refers to what is beyond the two instrumented set-checks.

However, “Payment for *attaching equipment to each production pile for Dynamic Load Testing prior to initial driving and as authorized by the Engineer, including up to two instrumented set checks will be 20 feet of additional pile.*” suggests that this may be additional payment for the third set-check because it is beyond the two instrumented set-checks.

Also, “In the event the Engineer requires an instrumented set check ~~or re-drive~~ of a *production pile after the day of initial driving, 1/2 the payment for a Dynamic Load Test will be added to the payment for the set check or re-drive. two set-checks within two days of initial driving, an additional 10 feet will be added to the quantity of piling.*” also suggests there will be additional payment for the third set-check.

I think they are not consistent. Let me know what you think.

Response:

Agree. Changes made to provide consistency. The text in this paragraph has been changed to “Payment for attaching equipment to each production pile for dynamic load testing prior to initial driving and as authorized by the Engineer will be 20 feet of additional pile”

Kathy Gray
386-740-3501
kathy.gray@dot.state.fl.us

Comments (12-16-10)

It does not seem reasonable that there would not be payment for a set check performed on a production pile performed 2 days after the pile is driven. There should be no separate payment for an initial instrumented or uninstrumented set check performed during the working day the pile is driven. However, the contractor should be paid for additional set checks and on subsequent days.

Note: Kathy’s 12-16-10 comment above was concurred with by Chandra Samakur, Wing Heung, Teresa Puckett and Juan Castellanos during a follow-up teleconference on 12-16-10.

Response:

After discussions with the State Construction Office, the time reference to two (working) days of initial driving has been reduced to the day of initial driving and the working day following initial driving.

Ken Zinck
386-740-3471
ken.zinck@dot.state.fl.us

Comments: (12-28-10)

In the second paragraph of 455-11.5 Dynamic Load Tests add the word "WORKING" ~~shown in caps/quotes~~ (underlined and highlighted) to be consistent with previous changes in the specification.

Payment for attaching equipment to each production pile for Dynamic Load Testing prior to initial driving and as authorized by the Engineer, including up to two instrumented set checks will be 20 feet of additional pile. No additional payment for attaching equipment will be made for additional set checks performed within two working days of the initial driving ~~will include all costs related to dynamic testing as described in 455-5.13 including the initial instrumented drive, and up to two instrumented set checks that day.~~ In the event the Engineer requires an instrumented set check or redrive of a production pile after the day of initial driving, 1/2 the payment for a Dynamic Load Test will be added to the payment for the set check or redrive. ~~two set-checks within two working days of initial driving,~~ an additional 10 feet will be added to the quantity of piling. In the event the Engineer requires an instrumented redrive of a production pile, 10 feet will be added to the quantity of piling

Response: The referenced text has been deleted. The second paragraph of 455-11.5 has been reduced to: *Payment for attaching equipment to each production pile for dynamic load testing prior to initial driving and as authorized by the Engineer, will be 20 feet of additional pile.* Payment for set-checks and redrives is addressed only in 455-11.10.1, 11.10.2 & 11.10.3.

Lorie Wilson for Tammie Andrews
386-943-5346
Lorie.Wilson@dot.state.fl.us

Comments: (1-5-11)

The subject of pile driving is already confusing without trying to eliminate words just to reduce redundancy. I would NOT recommend removing the last sentence in Spec. 455-7.7.3 and 455-8.3 as proposed. For the same reason, I would NOT recommend removing Spec. 455-11.2.9 and Spec. 455-11.2.10. These two specs are clearly written and easy to find without having to follow the cross referencing path. If we do accept this change and eliminate Spec. 455-11.2.10, please note that Spec. 455-11.2.8 (b) has a reference to Spec. 455-11.2.10 which would no longer exist.

Response:

The referenced sentence removals were intended to keep Method of Measurement language in 455-11 and Basis of Payment language in 455-12.

455-7.7.3: The last sentence is a duplicate of 455-11.2.3. No change made.

455-8.3: This sentence deletion was requested by the State Construction Office, no change made.

455-11.2.9 & 11.2.10: The Specification language is retained and moved to the new 455-11.10.1 & 11.10.2.

The references in (b) and (c) have been corrected.

Thank-you for your comments.
