

STRUCTURES FOUNDATIONS (DESIGN BUILD)
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Paul Free
904-383-3914
Paul.Free@stvinc.com

Comments: (6-9-17)

Please note the title difference between spec 455-0300 and 455-0000DB in section 455-11.2.2. One is spelled "Unplanned". The other is spelled "Unplaned".

Response: Thank you. Right spelling is Unplanned as shown here. Change will be made on section 455 for conventional projects. No Change made here.

Gus Quesada
3057265981
gquesada@nmdceng.net

Comments: (6-12-17)

This is a bit confusing, is the intent not to pay or not to allow build up? 455-11.1 "No adjustments in the length, in feet, of piling will be made if cut-offs are required after the pile has been driven to satisfactory bearing." I believe the intent is for payment since it's under the method of measurement, but the following describe the payment... maybe instead of "in feet" it should state "for payment"... it just may be misinterpreted.

Response: This sub-article refers to method of measurement for payment purposes which will not apply to Design Build projects. Special Provision section 4 for LS projects supersedes any references for payment. This sub-article and its revisions were included here to maintain the same changes we were making in the conventional specification. No Change made.

Larry Jones
414-4305
Larry.Jones@dot.state.fl.us

Comments: (6-19-17)

The positional tolerance is too large for small diameter piles. Please revise 455-5.16.2 as follows: 455-5.16.2 Position: Ensure that the final position of the pile head at cut-off elevation is no more than 3 inches, or 1/6 of the diameter of the pile, whichever is less, laterally in the X or Y coordinate from the Plan position indicated in the Plans.

Response: Agree. Change made.

Larry Jones

(850) 414-4305
Larry.Jones@dot.state.fl.us

Comments: (6-19-17)

Please update the required spacing between load test piles and reaction piles in 455-2.2 (2.b) to those currently shown in ASTM 1143 as follows: b. Load Applied to the Test Pile or Shaft by Hydraulic Jack Acting Against Anchored Reaction Member: Construct reaction member anchorages as far from the test piles/shafts as practical, but in no case shall the clear distance be closer than the greater of 5 pile/shaft diameters or 8 feet from the edge of the test pile/shaft.

Response: Agree. After discussion with the author of the comment, change made as follows: “b. Load Applied to the Test Pile or Shaft by Hydraulic Jack Acting Against Anchored Reaction Member: Construct reaction member anchorages in accordance with article 6.3 of ASTM D1143”.

Kerrie Harrell
D3 Design

Comments: (6-29-17)

1. For 455-3, the last sentence needs to be reviewed to determine if “at no expense to the Department” is in the correct location in the sentence. The way it currently reads it sounds like if a design change is proposed then the “at no expense to the Department” would not be applicable. The intent should be for the Contractor to extract and replace the pile or redesign the substructure to accommodate the mislocated pile. Neither situation would be at the expense to the Department.

Response: The article in question does state that in either case there will not be any expense to the Department. The article requires to either to extract and replace the pile at no cost, or change the design in accordance with the provisions of 455-5.16.5. This sub-article specifies that the redesign will be at no expense to the Department. No Change made.

2. For 455-12.12 & 455-24.10 & 455-37.5 & 455-50.2 Payment items – why do we have these items? Design build is lump sum and we pay by schedule of values (not pay items). I recommend moving these sections and all references to pay items in other sections.

Response: We thought about this initially, but after further consideration it was decided to keep them as we could create other potential conflicts in other sections of the specifications. Deleting is not necessarily because the Special Provision for Lump Sum projects (SP0040100LS) already indicates that references to pay items are superseded. No Changes made.

Larry Jones
(850) 414-4305
Larry.Jones@dot.state.fl.us

Comments: (7-3-17)

The following editorial change is requested in order to clarify the intent of 455-5-12-2 (3.b) and avoid perceived conflicts with the AASHTO LRFD Bridge Design Code: Change the term "fpe" to "fcpe" in equations 1, 2a, & 2b, and where: Revise the definition of fcpe (currently fpe=) to effective prestress in the concrete (after all losses) at the time of driving, psi, taken as 0.8 times the initial prestress force divided by the minimum net concrete cross-sectional area of the pile. (fcpe=0 for dowel spliced piles).

Response: This comment was intended for the DB specification. Change made to the DB version of 455.
