

## ORIGINATION FORM

Date: **12-11-12**

Originator: Stefanie Maxwell

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Specification Title: **Pipe Culverts**

Specification Section, Article, or Subarticle Number: **Articles 430-11 and 430-12**

Why does the existing language need to be changed? **Language was deleted from Section 556.**

Summary of the changes: **Compensation for Jack and Bore will be included in the cost of the item installed – pipe culverts.**

Are these changes applicable to all Department jobs? **Yes.**

If not, what are the restrictions?

Will these changes result in an increase or decrease in project costs? **No.**

If yes, what is the estimated change in costs?

With who have you discussed these changes? **Trey Tillander, Rick Renna, Amy Tootle, Gordon Wheeler, Melissa Hollis, Rudy Powell, Chester Henson, and Debbie Toole.**

What other offices will be impacted by these changes? **Estimates and Design**

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? **Yes to PPM and or BOE in conjunction with the changes to Section 630**

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? **Yes. It can be included in the Bulletin for explaining changes to conduit...including directional bore and jack & bore in the cost of the items installed – pipe culverts and conduit.**

Contact the State Specifications Office for assistance in completing this form.

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## *Florida Department of Transportation*

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

### **MEMORANDUM**

**DATE:** December 21, 2012  
**TO:** Specification Review Distribution List  
**FROM:** Trey Tillander, State Specifications Engineer  
**SUBJECT:** Proposed Specification: **4301100 Pipe Culverts.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Stefanie Maxwell of the State Construction Office to include language deleted from Section 556 clarifying compensation for jack & bore.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965TT or [trey.tillander@dot.state.fl.us](mailto:trey.tillander@dot.state.fl.us). Comments received after **January 17, 2013**, may not be considered. Your input is encouraged.

TT/dt  
Attachment

**PIPE CULVERTS.**  
**(REV 12-11-12)**

ARTICLE 430-1 (Page 433) is deleted and the following substituted:

**430-1 Description.**

Furnish and install drainage pipe and end sections at the locations called for in the Plans. Furnish and construct joints and connections to existing pipes, catch basins, inlets, manholes, walls, etc., as may be required to complete the work.

Construct structural plate pipe culverts or underdrains in accordance with Sections 435 and 440.

*For pipe culverts installed by jack & bore, install in accordance with Section 556.*

Obtain pipe culverts from a Producer currently on the Department's list of Producers with Accepted Quality Control Programs. Producers seeking inclusion on the list shall meet the requirements of 105-3.

When the producer's Quality Control Program is suspended, accept responsibility of either obtaining drainage products from another producer with an accepted Quality Control Program or await re-approval of the producer's Quality Control Program. The Engineer will not allow changes in Contract Time or completion dates as a result of the producer's Quality Control Program suspension. Accept responsibility for all delay costs or other costs associated with the producer's Quality Control Program suspension.

ARTICLE 430-11 (Pages 441 – 442) is deleted and the following substituted:

**430-11 Method of Measurement.**

**430-11.1 New Pipe as a Carrier:** The quantities of storm and cross drain pipe, storm drain trench, side drain pipe and gutter drain pipe to be paid for will be plan quantity, in place and accepted. The plan quantity will be determined from the inside wall of the structure as shown in the Plans, along the centerline of the pipe, *minus the plan quantity length paid for separately as pipe culvert optional material - jack & bore.*

**430-11.2 New Pipe with a Casing:** *The quantity of storm and cross drain pipe, storm drain trench, side drain pipe and gutter drain pipe to be paid for will be the plan quantity, in place and accepted. The plan quantity will be determined from the inside wall of the structure as shown in the Plans, along the centerline of the pipe.*

*The casing, installed by pipe culvert optional material - jack & bore, will be the plan quantity length, in place and accepted.*

**430-11.2-3 Mitered End Section:** The quantity of *mitered end sections* to be paid for will be the number completed and accepted.

ARTICLE 430-12 (Pages 442 – 443) is deleted and the following substituted:

**430-12 Basis of Payment.**

**430-12.1 General:** Prices and payments will be full compensation for all work specified in this Section, including all excavation except the volume included in the items for the grading

**Comment [sm1]:** This is for pipe installed by trench or jack & bore. If installed by jack & bore, Pipe Culvert Optional Material- Jack & Bore pay item is also used and paid separately.

work on the project, and except for other items specified for separate payment in Section 125; all backfilling material and compaction; disposal of surplus material; and all clearing and grubbing outside of the required limits of clearing and grubbing as shown in the Plans.

*No payment will be made for failed bore paths, injection of excavatable flowable fill, products taken out of service, or incomplete installations. Payment will include all work and materials necessary for jack & bore, including boring, backfilling, flowable fill, and restoration materials necessary for a complete and accepted installation.*

*No payment will be made for jack & bore until a Bore Path Report has been delivered to the Engineer.*

**430-12.2 Removing Existing Pipe:** When existing pipe is removed and replaced with new pipe approximately at the same location, the cost of excavating and removing the old pipe and of its disposal will be included in the Contract unit price for clearing and grubbing.

**430-12.3 Site Restoration:** The cost of restoring the site, as specified in 125-11, that is disturbed, solely for the purpose of constructing pipe culvert, will be included in the Contract unit price for the pipe culvert, unless designated specifically to be paid for under other items.

**430-12.4 Plugging Pipes:** The cost of temporarily plugging a pipe culvert, either proposed or existing, will be incidental to the contract unit price for new pipe culvert.

The cost of filling and/or plugging an existing pipe culvert that is to be permanently placed out of service will be paid for at the contract unit price for filling and plugging pipe, per cubic yard. Price and payment will be full compensation for flowable fill, masonry, concrete, mortar, and all labor and materials necessary to complete the work.

When the project includes no quantities for new pipe culverts, and temporary plugs are required for existing pipe culverts, the cost will be considered as extra work, in accordance with 4-3.5.

**430-12.5 Desilting Pipe:** Desilting Pipe will be paid for at the contract unit price per foot for each pipe desilted. Price and payment will be full compensation for furnishing all equipment, tools and labor, disposal of silt and debris, and all incidentals necessary for satisfactorily performing the work.

**430-12.6 Desilting Concrete Box Culverts:** Price and payment will be full compensation for all work required.

**430-12.7 Flared End Sections:** Price and payment will be full compensation for all work and materials required.

**430-12.8 Mitered End Sections:** Price and payment will be full compensation for all pipe, grates when required, fasteners, reinforcing, connectors, anchors, concrete, sealants, jackets and coupling bands, and all work required.

**430-12.9 Railroad Requirements:** Where pipe culvert is constructed under railroad tracks, the Contract unit price for the pipe culvert will include the costs of any jacking operations and the operation of placing the pipe by use of a tunnel liner, (except as specified for unanticipated tunnel liner, in 430-6.5, where reimbursement is to be made for such unanticipated liner), and all other work necessary to meet the requirements of the railroad company, excluding the costs of watchman or flagman services provided by the railroad company, except as provided below.

The Department will reimburse the Contractor for the actual costs of any trestle bridge work which is performed by the railroad's forces, as billed to him by the railroad, less the value of any salvage materials derived there from, whether such salvage materials are retained by the railroad company or by the Contractor. When the work of shoring and bracing is to be

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performed by the railroad, such fact will be stipulated in the Contract Documents and the Contractor will be required to pay to the railroad the amount of such costs, which amount will be reimbursed to him by the Department. The Contract unit price for the pipe culvert shall include the costs of all other work of shoring and bracing.

**430-12.10 Payment Items:** Payment will be made under:

- Item No. 430- 17- Pipe Culvert Optional Material - per foot.
- Item No. 430- 18- Pipe Culvert Optional Material - Jack & Bore – per foot.*
- Item No. 430- 94- Desilting Pipe – per foot.
- Item No. 430- 96- Polyvinyl Chloride Pipe - per foot.
- Item No. 430- 98- Mitered End Section - each.
- Item No. 430-200- Flared End Sections - each.
- Item No. 430-610- U-Endwall - each.
- Item No. 430-830- Filling and Plugging Pipe – cubic yard.
- Item No. 430-950- Desilting Concrete Box Culvert – per cubic yard.