ORIGINATION FORM
Proposed Revisions to the Specifications
(Please provide all information - incomplete forms will be returned)

Date: 5/14/2021

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Office: Construction

Specification Section: 120

Article/Subarticle: 120-1/120-4/120-5/120-7/12

Associated Section(s) Revisions: 110

Will the proposed revision require changes to:

Publication	Yes	No	Office Staff Contacted
Standard Plans Index	◉	○	Rick Jenkins/Andre Pavlov
Traffic Engineering Manual	◉	○	Javier Ponce
FDOT Design Manual	◉	○	Bobby Bull
Construction Project Administration Manual	◉	○	Scott Arnold
Basis of Estimate/Pay Items	◉	○	Melissa Hollis
Structures Design Guidelines	◉	○	Ben Goldsberry
Approved Product List	◉	○	Karen Byram
Materials Manual	◉	○	Tim Counts

Will this revision necessitate any of the following:

Design Bulletin ☐ **Construction Bulletin** ☐ **Estimates Bulletin** ☐ **Materials Bulletin** ☐

Are all references to external publications current? **Yes** ◉ **No** ○

If not, what references need to be updated? (Please include changes in the redline document.)

Why does the existing language need to be changed?

Additional clarification from last cycle. Consistency of terms used. Clarifying removal of pavements and the embankment quantities when construction over an existing roadway.

Summary of the changes:

Removing subbase form 120-1. Add clarification language to 120-4 for the removal of pavement types and to 120-5 for disposal and use of existing materials. Clean up language in 120-7 . Clarification of the removal of pavement types and the embankment measure in

Are these changes applicable to all Department jobs? **Yes** ◉ **No** ○

If not, what are the restrictions?

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

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M E M O R A N D U M

DATE: June 17, 2021

TO: Specification Review Distribution List

FROM: Daniel Strickland, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **1200101 Excavation and Embankment.**

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

This change was proposed by Jason Russell from the State Construction Office to clarify removal of pavement and embankment quantities when constructing over an existing roadway.

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 online at http://fdotewp1.dot.state.fl.us/programmanagement/development/industryreview.aspx . Comments received after **July 15, 2021,** may not be considered. Your input is encouraged.

DS/vc

Attachment

EXCAVATION AND EMBANKMENT
(REV 4-8-21)

SUBARTICLE 120-1.1 is deleted and the following is substituted:

120-1.1 General: Excavate and construct embankments as required for the roadway, ditches, channel changes and borrow material. Use suitable excavated material or authorized borrow to prepare subgrades and foundations. Construct embankments in accordance with Standard Plans, Index 120-001. Compact and dress excavated areas and embankments.

Meet the requirements of Section 110 for excavation of material for clearing and grubbing and Section 125 for excavation and backfilling of structures and pipe. Material displaced by the storm sewer or drainage structure system is not included in the earthwork quantities shown in the Plans. The original ground line is defined as the contour of existing natural topography. The finished grading template is defined as the contour of the finished side slopes, unpaved shoulders, and the bottom of the roadway base ~~or subbase, as applicable~~ and shoulder base for flexible or rigid pavement.

SUBARTICLE 120-4.2 is deleted and the following is substituted:

120-4.2 Construction over Existing Old Road: Where a new roadway is to be constructed over an old one, completely remove the existing flexible and Portland cement concrete pavement for the entire limits of the width and depth. Compact disturbed material in accordance with Section 120 or 160, whichever material applies. If indicated in the Plans, remove the existing base in accordance with Section 110~~-2~~.

SUBARTICLE 120-5.3 is deleted and the following is substituted:

120-5.3 Disposal of Paving Materials: Unless otherwise noted, take ownership of paving materials, such as paving brick, asphalt block, concrete slab, sidewalk, curb and gutter, etc., excavated in the removal of existing pavements, and dispose of them outside the right-of-way. If the materials are to remain the property of the Department, place them in neat piles as directed. Existing ~~limerock~~ base materials that ~~is~~ are removed may be incorporated in the stabilized portion of the subgrade in accordance with Section 160. If the construction sequence will allow, incorporate all existing ~~limerock~~ base material into the project as allowed by the Contract Documents.

SUBARTICLE 120-6.3 is deleted and the following is substituted:

120-6.3 Borrow Material for Shoulder Build-up: When ~~so~~ indicated in the Plans, furnish borrow material with a specific minimum bearing value, for building up of existing shoulders. Blend materials as necessary to achieve this specified minimum bearing value prior to placing the materials on the shoulders. Take samples of this borrow material at the pit or blended

stockpile. Include all costs of providing a material with the required bearing value in the Contract unit price for borrow material.

SUBARTICLE 120-7.2 is deleted and the following is substituted:

120-7.2 General Requirements for Embankment Materials: Construct embankments of acceptable material including reclaimed asphalt pavement (RAP), recycled concrete aggregate (RCA) and P~~p~~ortland cement concrete rubble, but containing no muck, stumps, roots, brush, vegetable matter, rubbish, reinforcement bar or other material that does not compact into a suitable and enduring roadbed. Do not use RAP or RCA in the top 3 feet of slopes and shoulders that are to be grassed or have other type of vegetation established. Do not use RAP or RCA in stormwater management facility fill slopes or permitted wetland impact areas.

Remove all waste material designated as undesirable. Use material in embankment construction in accordance with ~~plan details~~Plans ~~-~~or as the Engineer directs.

Complete the embankment using maximum particle sizes (in any dimension) as follows:

1. In top 12 inches: 3-1/2 inches (in any dimension).
2. 12 to 24 inches: 6 inches (in any dimension).
3. In the depth below 24 inches: not to exceed 12 inches (in any dimension) or the compacted thickness of the layer being placed, whichever is less.

Spread all material so that the larger particles are separated from each other to minimize voids between them during compaction. Compact around these rocks in accordance with 120-9.2.

When and where approved by the Engineer, the Contractor may place larger rocks (not to exceed 18 inches in any dimension) outside the one to two slope and at least 4 feet or more below the bottom of the base. Compact around these rocks to a firmness equal to that of the supporting soil. Construct grassed embankment areas in accordance with 120-9.2.5. Where constructing embankments adjacent to bridge end bents or abutments, do not place rock larger than 3-1/2 inches in diameter within 3 feet of the location of any end-bent piling.

SUBARTICLE 120-13.7 is deleted and the following is substituted:

120-13.7 Embankment: The quantity will be at the plan quantity. Where payment for embankment is not to be included in the payment for the excavation~~,~~ and is to be paid for on a cubic yard basis for the item of embankment, the measurement will include material actually placed above the original ground line or the finished grading template of an existing roadbed, as applicable, within the lines and grades indicated in the Plans or directed by the Engineer. Where embankment is constructed over an existing road, the embankment measurement will include only the material actually placed above the existing base. ~~unless the Plans require the complete removal of the base.~~ If ~~both~~ the ~~asphalt~~ pavement (flexible or rigid) and base ~~is~~ are removed, the embankment measurement will include only the material actually placed above the finish grading template of the existing roadbed. ~~————~~If there are authorized changes in plan dimensions or if errors in plan quantities are detected, plan quantity will be adjusted as provided in 9-3.2.

Any overrun or underrun of plan quantity for subsoil excavation which results in a corresponding increase or decrease in embankment will be considered as an authorized plan change for adjustment purposes as defined in 9-3.2.2.

No payment will be made for embankment material used to replace unsuitable material excavated beyond the lines and grades shown in the Plans or ordered by the Engineer.

In no case will payment be made for material allowed to run out of the embankment on a flatter slope than indicated on the cross-section. The Contractor shall make his own estimate on the volume of material actually required to obtain the pay section.