

VIRGINIA DEPARTMENT OF TRANSPORTATION

LOCATION AND DESIGN DIVISION

INSTRUCTIONAL AND INFORMATIONAL MEMORANDUM

GENERAL SUBJECT: PLAN QUANTITIES	NUMBER: IIM-LD-135.11
SPECIFIC SUBJECT: DETERMINATION OF PLAN QUANTITIES	DATE: FEBRUARY 14, 2013
	SUPERSEDES: IIM-LD-135.10
APPROVAL:	Mohammad Mirshahi, P.E. State Location and Design Engineer Approved February 14, 2013

Changes are shaded.

CURRENT REVISION

- Plan quantities are items that are not likely to vary as a result of field conditions.
- The purpose of this IIM is to provide guidance in determining items to be designated as plan quantity items in general or on individual projects scheduled for advertisement.
- In accordance with Section 109.02 of the Road and Bridge Specifications, items designated in the Contract as plan quantity will not be field measured, but will be paid as the quantity shown on the plans. Therefore, quantities shown as plan quantities should be carefully selected.
- Attached to this IIM is a list of items that, under normal design and project conditions are commonly considered for designation as plan quantity items. Any item, whether on the example list or not, may be designated as a plan quantity item only after consultation with the District Construction Engineer or his designee.

EFFECTIVE DATE

- This memorandum is effective upon receipt.

POLICY

- Plan quantity items are paid for based on the exact quantities shown on the plan summaries as plan quantities, whereas other items shown in the summary are estimated quantities and are paid for as measured in the field.
 - If the Contractor believes there is an error in a plan quantity figure, he may request that the Department check the computations by furnishing evidence and computations supporting his belief along with a written request for review (See Section 109.02 of the Road and Bridge Specifications.)
 - Should the Department determine at any time that an actual measurement is warranted, the Department will make the necessary measurements in the field.
 - Payment will then be based on the measured quantity instead of the plan quantity originally shown on the summary.
 - If during the design of a project, and after consultation with the District Construction Engineer or his designee, it is determined that conditions vary too much to pay for an item by plan quantity, then the plan quantity symbol should not be used indicating the plan summary reflects estimated quantities and payment would be based on actual quantities measured in the field.
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PROCEDURE

Plan Summaries

- All plan summaries are to show a symbol (⊗) by the appropriate plan quantity totals with the following note:

"Denotes item(s) to be paid for on the basis of plan quantities in accordance with the applicable provisions of the current Road and Bridge Specifications."

Note to designers: It will no longer be necessary to designate and code plan quantity items when preparing the Engineer's estimate. The plan quantity symbol will not appear as a margin code in the Schedule of Items in the bid proposal.

Example Plan Quantity Items

Any item, whether on the example list or not, should be designated as a plan quantity item only after consultation with the District Construction Engineer.

ITEM	SPEC	ITEM DESCRIPTION	UNITS
00120	303	REGULAR EXCAVATION *	C.Y.
00111	301	CLEARING AND GRUBBING	ACRE
00211	303	MINOR STRUCTURE EXCAVATION PIPE CULVERT	C.Y.
00212	303	MINOR STRUCTURE EXCAVATION BOX CULVERT	C.Y.
00490	302	CLASS I BACKFILL MATERIALS	TON
00491	302	CLASS I BACKFILL MATERIALS	CY
00492	302	CLASS II BACKFILL MATERIALS	TON
00493	302	CLASS II BACKFILL MATERIALS	CY
00500	302	BEDDING MATERIAL. FINE AGGREGATE.	TON
00502	302	BEDDING MATERIAL. FINE AGGREGATE OR AGGREGATE NO. 10	TON
00504	302	BEDDING MATERIAL. FINE AGGREGATE OR AGGREGATE NO. 8	TON
00505	302	BEDDING MATERIAL. AGGREGATE NO. 25 OR 26	TON
00522	302	CONCRETE CLASS A4 BOX CULVERT	C.Y.
00540	302/406	REINFORCED STEEL	LB.
11020	316	CONCRETE CLASS A4 BRIDGE APPROACH SLAB	C.Y.
11030	316	REINFORCED STEEL BRIDGE APPROACH SLAB	LB.
13250	504	BEDDING MATERIAL.	TON
13251	504	BEDDING MATERIAL.	C.Y.
13545	406	REINFORCED STEEL	LB.
13561	401	POROUS BACKFILL	C.Y.
13565	506	RETAINING WALL EXCAVATION	506
13580	417	DAMPPROOFING	S.Y.
13750	519	SOUND WALL COLOR COATING	S.F.
13753	519	SOUND BARRIER WALL	S.F.
13754	519	PRECAST SOUND BARRIER WALL	S.F.
13755	519	PRECAST SOUND BARRIER WALL ABSORTIVE	S.F.
24400	508	OBSCURING ROADWAY	UNIT
24410	508	DEMOLITION OF PAVEMENT	S.Y.
24420	508	DEMOLITION OF PAVEMENT (RIGID)	S.Y.
24430	508	DEMOLITION OF PAVEMENT (FLEXIBLE)	S.Y.
69805	416	WATERPROOFING	L.F.
69810	417	DAMPROOFING	S.Y.

* Regular Excavation is listed per VDOT Road and Bridge Specifications, Section 303.06(c) and IIM-LD-138.