



Florida Department of Transportation

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ESTIMATES BULLETIN 09-07 ROADWAY DESIGN BULLETIN 09-08

DATE: December 18, 2009
TO: District Estimates Coordinators, District Design Engineers, District Construction Engineers

FROM: Phillip Greg Davis, State Estimates Engineer
Paul Steinman, State Construction Engineer
David C. O'Hagan, State Roadway Design Engineer

COPIES TO: Lora Hollingsworth, Brian Blanchard, David Sadler, Duane Brautigam, Rudy Powell

SUBJECT: Litter Removal and Mowing

ISSUE BACKGROUND: Currently, the requirements for litter removal and/ or mowing are addressed in Specification Section 104: Prevention, Control, and Abatement of Erosion and Water Pollution; 570: Performance Turf; and 580: Landscaping. This has created inconsistencies on how often litter removal and mowing are to be performed, how they are to be paid, and how they are to be estimated and bid.

To address these inconsistencies, all references to litter removal and mowing will be removed from Sections 104 and 570 and a new section, Section 107: Litter Removal and Mowing, will be implemented. As a result of these changes, Section 570 will now only address the requirements for establishing new turf, and Section 107 will address the requirements for litter removal and mowing of existing vegetation as well as new turf, if any. There will be no changes to Section 580.

IMPLEMENTATION: Effective with the July 2010 letting, update the plans, pay items, and quantities as shown below.

Estimate the Litter Removal and Mowing Area and Number of Cycles: Estimate the area for each phase, based on the Temporary Traffic Control plans. It is not necessary to adjust for inlets, drains, slopes, small variations in tree lines, etc. Estimate one litter removal and mowing cycle every 30 days, for the duration of the project. Do not adjust the estimated number of cycles for growing season, special events, or project location. Litter removal and mowing areas and cycles will be adjusted by the engineer during construction, as needed.

Update Plans and Pay Item Notes: Update plans, to add pay items and quantities for Litter Removal and Mowing.

Document the estimated area and number of cycles in the plans.

Provide a summary table in the plans showing the duration, estimated area, mowing frequency, and estimated number of cycles for each phase and the estimated total area. Use a minimum of 1 cycle per phase; after dividing the phase duration by 30 days, round to the nearest cycle.

Update Pay Items: The following pay items will be valid through June 30, 2010:

104- 4- Mowing- per acre

The following pay items are effective with the July 2010 letting:

107- 1- Litter Removal- per acre

107- 2- Mowing- per acre

Payment will be based on the area calculated by the Engineer per litter removal or mowing cycle.

Update Budget and/or Authorization Estimate: Effective with the July 2010 letting, update Transport quantities and prices for Litter Removal, Mowing, and Performance Turf.

Specifications: New Specifications will be included in the July 2010 Specification Workbook.

Plans Preparation Manual (PPM): Volume 2 of the Plans Preparation Manual (PPM) will be updated with the January 1, 2010 PPM update to include guidance for area measurement, number of cycles, and total quantity estimation as follows:

1. Section 7.1: Replace the first paragraph with the following:

The summary of quantities sheet shows individual summaries of guardrail, crash cushions, fence, turnouts, sodding, ditch pavement, side drains, mitered end sections, underdrains, earthwork, litter removal and mowing when applicable. The tabulation shall show location and quantities in the plans column (P). The final quantity column (F) is reserved for construction and final estimates. As noted in *Chapter 4*, the necessary pay items and the quantities shall be shown on the summary of pay items sheet.

2. Section 7.4: Add this new section:

7.4 Litter Removal and Mowing

The estimated litter removal and mowing areas shall be provided in the Summary of Litter Removal and Mowing. For each phase, show the phase duration, frequency, estimated number of cycles, estimated area per cycle and total area for each construction phase (See *Exhibit SQ-5*).

The construction office estimates the duration for each phase of construction (based on the

Temporary Traffic Control Plans) during the Phase III Plans Review. The litter removal and mowing cycle frequency should be estimated as every 30 days, for the duration of each construction phase (with a minimum of one cycle per phase). It is not necessary to adjust the estimated number of cycles for growing season, special events, or project location.

The litter removal and mowing areas for each construction phase are based on the total area of existing and proposed turf or vegetation to be mowed within the project limits. It is not necessary to adjust for inlets, drains, slopes, ditch pavement, turnouts, driveways, sidewalks, small variations in tree lines, or other similar areas.

The litter removal and mowing areas are multiplied by the number of cycles in each phase to determine the estimated total areas per construction phase. Litter removal and mowing areas and frequency will be adjusted by the engineer during construction, as needed.

3. Exhibit 7-1: Delete the text in parentheses from Note 9.
4. Exhibit SQ-5: Add New Exhibit showing Summary of Litter Removal and Mowing table:

SUMMARY OF LITTER REMOVAL AND MOWING									
CONST. PHASE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL			MOWING			REMARKS
			CYCLES	AREA		CYCLES	AREA		
				AC/CYCLE	TOTAL (AC)		AC/CYCLE	TOTAL (AC)	
1	12	30	1	8.7	8.7	1	8.7	8.7	
2	98	30	3	7.3	21.9	3	7.3	21.9	
3	114	30	4	5.8	23.2	4	5.8	23.2	
4	68	30	2	5.8	11.6	2	5.8	11.6	
			TOTAL	P	65.4	TOTAL	P	65.4	
				F			F		

If you have any questions regarding the use of the above items, please contact Larry Ritchie, State Construction Office, at 850-414-4168, or Robert Quigley, Roadway Design Office, at 850-414-4356.