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Inter-Departmental Memorandum

Date: July 7, 2011
To: Design Team Leaders
From: Design Section Engineer
Greg Williams *GSW*
Subject: **Erosion Control Plans, Details, and Quantities**

MDOT's plan requirements for erosion control have changed significantly over the last 18 months. The following is a summary of these updated requirements, provided as guidance for designers in plan development:

1. For all projects with at least 1 acre of disturbed area, the following sheets are required:
 - Erosion Control Detail Sheets ECD-1 through ECD-20
 - Standard Drawings EC-1 and TEC-3
 - Special Design Sheets DT-1 and TEC-2

Some projects with less than 1 acre of disturbed area, but requiring significant erosion control measures, may also need the above sheets.

Projects including soil reinforcing mat will require special design sheet DT-1A. Projects with Type D silt basins will require special design sheet TEC-D, and the 135 cubic yard capacity/acre design sheet is required, except on projects where the right-of-way was set for the old 70 cubic yard capacity/acre design.



Copies of updated special design sheets can be downloaded under *Special Design Sheets* from the Roadway Design web site or from the MDOT FTP site at the location listed below.

<http://ftp.mdot.state.ms.us>

Download a File

Roadway_Design

SpecialDesign

Erosion-sheets-dgn.zip

2. Preliminary erosion control plans are to be included for most projects with at least 1 acre of disturbed area; however, these plans will not be needed for some smaller projects which do not require major erosion control measures. In such cases, the decision to not include ECP sheets should be made by the field review or office review team. The designer needs to keep in mind that ECP sheets must be ready to submit with the Storm Water Permit application for projects with over 5 acres of disturbed area.

The preliminary erosion control plan sheets will basically be copies of the Plan-Profile sheets with everything deleted except for ROW lines and markers, alignment, edge of pavement, construction limits, drainage structures, silt basins, streams, lakes, wetlands, and profiles. Profile labels should be deleted except for the grade percents. Working sheet numbers should begin with ECP3 to correspond with WK3. On these sheets, the designer will show required erosion control items at critical areas such as bridges, boxes, large pipes, and wetlands. Similarly, proposed bridge locations will require ECP-BR sheets that correspond to the bridge plans. Items shown on the ECP sheets include, but aren't limited to: silt basins, stream diversions, erosion checks, grassed earth berms, and silt fence in wetland areas. Silt fence outside of wetland areas is not to be shown. The contractor will decide what to do at other locations after final plans have been printed.

3. Plan-Profile sheets will no longer show silt fence in the plan view. An estimated quantity for silt fence will still be shown on the Summary of Quantities sheets, but not on the Plan-Profile sheets. Permanent erosion control items such as ditch treatment and permanent riprap, as well as Type D silt basins, will continue to be shown and recapped on the Plan-Profile sheets.

4. The following six items are to be included on the Summary of Quantities listing for temporary erosion control checks. Plan quantities for each should be based on 1/6 of the total number of estimated erosion checks:

234-A001	TEMPORARY SILT FENCE	LIN FT
235-A001	TEMPORARY EROSION CHECKS	BALES
907-237-A003	WATTLES, 20"	LIN FT
907-245-A001	TRIANGULAR SILT DIKE	LIN FT
907-246-A001	SANDBAGS	LIN FT
907-249-A001	RIPRAP FOR EROSION CONTROL	TON

5. The following five items are to be included on the Summary of Quantities listing for inlet protection. Plan quantities for each should be based on 1/5 of the total number of inlets. Additional quantities of silt fence, wattles, and sand bags may be required for inlet protection during earlier construction phases as shown on sheet ECD-10:

907-234-D001	INLET SILTATION GUARD	EACH
235-A001	TEMPORARY EROSION CHECKS	BALES
907-237-A002	WATTLES, 12"	LIN FT
907-246-A001	SANDBAGS	LIN FT
815-F002	SEDIMENT CONTROL STONE	TON

6. Examples of other temporary erosion control pay items which may be required include, but are not limited to:

*	216-A001	SOLID SODDING	SQ YD
*	907-228-A001	EROSION CONTROL BLANKET, TYPE I	SQ YD
*	907-234-C002	SUPER SILT FENCE	LIN FT
	907-234-F001	TURBIDITY BARRIER	LIN FT
	236-A004	SILT BASIN, TYPE D	EACH
	907-247-A001	TEMPORARY STREAM DIVERSION	EACH

*due to cost, use only when other measures are not adequate

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