

Sec. 9.01 **General**

The district survey review and preparation procedures for final estimates shall be in accordance with the current **Post Construction Manual**, or as directed by the District Construction Engineer. If the District Construction Engineer requests finals, the following sections and the Post Construction Manual should be used as guidelines.

Sec. 9.02 **Alignment**

The centerline should be retraced accurately putting in all points where slope DTM's were taken. In case the centerline can be retraced accurately without running a traverse line over the project, a note conspicuously placed in the digital file, ascii file, or field book should state that a traverse line was not run as it was not necessary for the establishing of the centerline, and that the project was constructed according to plan alignment. When the line is retraced this is to be done in accordance with the procedures outlined in **Sec. 8.02**.

Sec. 9.03 **Levels**

After the centerline has been re-established, centerline levels are to be run taking elevations at all points where slope stake DTM's were taken. These levels shall be run in accordance with the procedure outlined in **Sec. 8.03**.

Sec. 9.04 **Cross-Sections**

Cross Sections are no longer used in final surveys. **In lieu of securing cross-section information, a DTM surface is the accepted VDOT format for determining final volumetric and final grading information. In case of emergency or a special situation, cross sections can be requested.**

Except in the case of Plan Quantity projects [Section 9.06](#), DTMs shall be secured as outlined below.

Sec. 9.05 **Borrow Pits**

DTM readings must be secured on all borrow pits, prior to the removal of any topsoil from the borrow pit. The same benchmark elevation must be used when securing both the original and final ground elevations. If DTM's are to be secured on the borrow pit a traverse or baseline must be established and referenced, and used when securing both the original and final surfaces. DTM readings must be taken in a manner to ensure that an accurate computation of volume of material removed be obtained. If it becomes necessary to secure DTM readings for an area not covered by original ground elevations, the original ground elevation must be interpolated and placed in the same format as the originals. If DTM readings were secured, a break line must be secured to define the beginning of excavation. In the case of more than one borrow pit, they must be numbered to correspond with the number used in staking them out.