

PROPOSED DRAFT MAY 2015

105.08 CONSTRUCTION STAKES, LINES AND GRADES

Maintain all survey controls required to control alignment and grade using survey personnel that are trained, experienced, and skilled in construction layout and staking. Do not hire Department personnel to perform any survey work.

Staking requests must be submitted on form CSB105_08_1. Department construction staking will be performed once for a given type and location. If construction staking is required more than once, submit an additional request to the Project Manager in writing with justification.

105.08.6 Survey Tolerances and Inspection

Perform and submit grade check verifications on form MDT-CON-105-08-X for all completed sections meeting the tolerances listed below for Subgrade, Special Borrow and Aggregate Surfacing.

The Department will perform finish grade checks based on the following:

- A. Subgrade.** Three random stations per 1,000-foot (300 m) section will be checked. The 1,000-foot (300 m) section will be accepted if 80% or more of the points checked are within a vertical tolerance range of + 0.05 to - 0.10 foot (+ 15 to - 30 mm), and the horizontal alignment is within 0.30 foot (90 mm) of the true line. If not within required tolerances, rework the entire 1,000-foot (300 m) section. Three new random stations will be checked after rework is completed. Random checks will be performed for finish ditch grade control to ensure proper drainage.
- B. Special Borrow.** Three random stations per 1,000-foot (300 m) section will be checked. The 1,000-foot (300 m) section will be accepted if 80% or more of the points checked are within a vertical tolerance range of + 0.05 to - 0.10 foot (+ 15 to 30 mm), and the horizontal alignment is within 0.30 foot (90 mm) of the true line. If not within required tolerances, rework the entire 1,000-foot (300 m) section. Three new random stations will be checked.
- C. Aggregate Surfacing.** Six random stations per 1,000-foot (300-m) section will be checked. Each 1,000-foot (300-m) section will be accepted if 85 percent or more of the points checked meet the requirements listed in Table 301-1, and the horizontal alignment is within 0.30 foot (90 mm) of the true line. If not within required tolerances, rework the entire 1,000-foot (300 m) section. Six new random stations will be checked.

Sections that are obviously defective may or may not be checked by the Department prior to rejection.

A station check consists of centerline, shoulders, any break in cross slope, and intermediate points not to exceed intervals of 20 feet (6 m). All elevation checks are taken on the material, not on the finish grade control. The Project Manager may increase or decrease the number of stations being checked by the Department. After receiving notification of a completed section, the Project Manager will perform the finish grade check by the close of the following business day. The Department checks will be independent and random from the stations checked by the Contractor. Contract time will be extended day for day, without any other compensation, for Department caused delays beyond the allotted time to perform the finish grade check.

The Department will check each section one time at no cost to the Contractor. If additional checks are required, the Contractor may be charged the Department's cost for the rechecking.

NO COMMENTS

NOT FINALIZED