

3. Designs are not to be designated as Regular and Alternate except on those occasions when such designs are not considered to be equal or one is considered to be questionable, either from a performance standpoint or from a competitive cost standpoint. In such an event, the designation of Regular and Alternate designs must be approved by the State Construction Engineer well in advance of plans being sent to the Scheduling and Contract Division for advertisement. When the Regular and Alternate design concepts are approved, the Scheduling and Contract Division will incorporate a provision in the proposal which advises that the Department will, at its option, award to the bidder submitting the lowest Regular or Alternate total bid, whichever is in the best interest of the State.

Pay item totals in summaries shall be shown to the nearest whole number, except in the following situations:

1. Concrete to be measured for payment by the cubic yards (m<sup>3</sup>), in which case the concrete total shall be computed to two decimal places and shown to one decimal in the summaries.
2. Metric culvert and storm sewer pipe lengths are shown to the nearest 0.5 m
3. Metric manhole and drop inlet heights are shown to the nearest 0.01 m.
4. Metric pipe cover is shown to the nearest 0.1 m.

Summarization of work to be performed by State Forces and Railroad Forces are typically included in the Incidental Summary. For instructions on showing State Force work for providing construction signs, see IIM-LD-93. IIM-LD-93 should also serve as a guide for the method of showing State Force work for Construction Surveying when approved by the State Location and Design Engineer (see IIM-LD-152). For instructions on the summarization of Railroad Force work, see IIM-LD-143.\*

## **GRADING DIAGRAM AND SUMMARY**

The notes shown in the legend should be used to clarify the method of arriving at the individual earthwork totals. Pay items should be designated and plan quantity items specified in accordance with Instructional and Informational Memorandum [IIM LD-135](#). Show the plan quantity symbol for "Roadway Cut" as well as other applicable measured cut quantities in the Grading Summary. Because the "Total Regular Excavation" quantity is subject to change during construction as well as inclusion of some non-plan quantity items, do not show the plan quantity symbol with the "Total Regular Excavation" in the Grading Summary. The plan quantity symbol should not be shown on the "Regular Excavation" quantity in the engineer's estimate if any part of the total includes non-plan quantity items.

For instructions on computing and summarizing earthwork quantities see [IIM LD-138](#).

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\* Added 7/10