

# INDIANA DEPARTMENT OF TRANSPORTATION



INTER-DEPARTMENT COMMUNICATION



232-6775

April 25, 2006

**DESIGN MEMORANDUM No. 06-01**  
**TECHNICAL ADVISORY**

**TO:** All Design, Operations, and District Personnel, and Consultants

**FROM:** /s/ Anthony L. Uremovich  
Anthony L. Uremovich  
Design Resources Engineer  
Production Management Division

**SUBJECT:** Final Quantities Values

**SUPERSEDES:** *Indiana Design Manual* Section 17-1.03

**EFFECTIVE:** September 13, 2006, Letting

Quantities for all contract pay items should be estimated using the measurement units shown in the INDOT *Standard Specifications* or the special provisions. The values determined from the computations should be rounded as described below and shown in the quantities-summary tables and elsewhere in the plans as required.

In general, rounding of values should be as follows.

1. Small Quantity. For a quantity of 10 or less, round to the nearer whole unit (i.e., 3.2 to 3, 5.5 to 6, or 9.8 to 10).
2. Large Quantity. For a quantity greater than 10, round up to the next whole unit (i.e., 27.8 to 28, or 146.2 to 147).
3. Linearly-Measured Work. Round each linear-measure quantity up to the next higher 0.5 m (next whole foot).

4. Earthwork. For an individual cross-section area, round to the nearer  $0.1 \text{ m}^2$  ( $1 \text{ ft}^2$ ). For an individual end-area volume, round to the nearer  $1 \text{ m}^3$  ( $1 \text{ yd}^3$ ). For a total pay quantity, round up to the next multiple of  $5 \text{ m}^3$  ( $5 \text{ yd}^3$ )
5. Structural Concrete. Round each structural-concrete quantity to the nearest  $0.1 \text{ m}^3$  ( $0.1 \text{ yd}^3$ ). This includes each individual pour or structure portion and the total quantity for each concrete class shown in bills of materials and the Bridge Summary Sheet.

The values shown in the Estimate of Quantities and Cost Estimate developed by the designer should reflect this rounding procedure. The Engineer's Estimate and Schedule of Pay Items developed by the Contracts Administration Division's Estimating Section will also reflect this procedure.

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