

# INDIANA DEPARTMENT OF TRANSPORTATION



INTER-DEPARTMENT COMMUNICATION  
Standards Section C Room N642



Writer's Direct Line  
232-6775

March 15, 2000

## STANDARD DRAWING MEMORANDUM 00-9

TO: All Designers, Operations and District Personnel, Consultants, Contractors, and Vendors

THRU: /s/ Firooz Zandi  
Firooz Zandi  
Acting Chief Highway Engineer

FROM: /s/ Anthony L. Uremovich  
Anthony L. Uremovich  
Standards Engineer

SUBJECT: New and Revised Standard Drawings

EFFECTIVE: Lettings Between September 1, 2000, and December 31, 2000

We are transmitting herewith, prints of new and revised metric and english standard drawings. These drawings were approved by the Acting Chief Highway Engineer with the date of September 1, 2000. The drawings which are listed below under Standards Committee Action were verbally approved during a Standards Committee meeting by the Federal Highway Administration with the date of September 1, 2000. The drawings which are listed below under Editorial Changes were submitted to the Federal Highway Administration for their written approval on February 10, 2000. Such drawings were approved by the Federal Highway Administration on February 15, 2000, with an approval date of September 1, 2000.

We are also attaching herewith, one copy of the Standard Drawings Index, which is shown to be current as of September 1, 2000.

### STANDARDS COMMITTEE ACTION

The design speeds of 110 or 70 km/h (70 or 45 mph) in pay item names for impact attenuators have been changed to the NCHRP 350 test level designations TL-3 or TL-2, respectively. Standard drawings 601-GAIA-01, -02, and -03, and 601-IAED-01 have been revised to show this change.

Guardrail end treatments have been made generic such that the contractor chooses the appropriate treatments from an approved list of proprietary devices, similar to the procedure for impact attenuators. The standard drawings 601-GRET-01, 02, and 03 which show proprietary details have been discontinued. New standard drawings 601-GRET-10 and -11, and 601-WBGA-06, all of which show details for a new non-proprietary type II end treatment have been added.

The requirements for longitudinal safety bars used with safety metal culvert end sections have been revised. Standard drawings 715-SMES-01 and -07 have been revised to show this change.

More complete details have been developed regarding use of tubular markers for positive guidance in maintaining crossed-over two-lane two-way traffic. Revised standard drawing 801-TCDV-02A shows treatment of a roadway with narrow lanes. The two-way flexible channelizer has been deleted as shown on revised standard drawing 801-TCDV-03. New standard drawings 801-TCTC-11 and -12 show tubular markers placement and construction signage details.

EDITORIAL CHANGES. The dates on the english versions which do not require revisions have been changed to September 2000 to match the revised metric versions. Drawings which show these dates have been incorporated into the english set even though no actual revisions were made to the drawings. This perpetuates use of a single index for both metric and english drawings.

<u>Drawings</u>	<u>Change</u>
105-RBCL-01	More accurately show road contract fill limits
401-REBS-03	Correct gore width in Sec. A-A to complement the english version, which does not require revision
501-RECS-01	Show location of Detail A in overall plan view
601-CWGS-01	Correct table designation to complement the english version, which does not require revision
601-WBGA-02	Correct width of guardrail assembly; show dimension front face curb to front face guardrail; eliminate backslope requirement
605-CNCC-01	Show WWF designation in Section G-G
607-PSDT-01	Correct metric pipe size for paved side ditch type B. English version does not require revision
610-DRIV-05	Correct radii to complement original large-size english drawing

<u>Drawings</u>	<u>Change</u>
610-DRIV-11	Eliminate crown depth in cross section since width and slope are shown
610-PRAP-06	Correct radii to complement original large-size english drawing
610-RCBA-01	Correct space between mudwall and approach slab to regular object line
611-TCCO-02 and -03	Correct 5 and 6 in plan view to agree with Legend
616-SWCO-04	Correct slopewall quantities to complement those on english drawing which does not require revision
706-TASE-01	Correct concrete quantity in Bill of Materials
715-BKFL-09	Correct typography in Note 1
802-SNGS-10	Correct "sleeve" to "anchor" in bottom views to complement top views
803-SNOH-06	Include required Note 1
805-SGFB-01	Correct fuse plate location to match dimension line
805-SGSC-04	Eliminate unnecessary minimum dimension from top of pole to second aircraft cable
807-LTFD-06	Eliminate justification part of Note 2; hard metricate depth of foundation
807-LTFD-07	Hard metricate foundation diameter. English version does not require revision
807-LTFD-08	Correct 4 to 3 in elevation since there is no Note 4 ; hard metricate diameter

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Attachments:

Metric standard drawings  
English standard drawings  
Standard Drawings Index

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