



**INDIANA DEPARTMENT OF TRANSPORTATION**  
*Driving Indiana's Economic Growth*

**Design Memorandum No. 18-01**  
**Policy Change**

February 5, 2018

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

**FROM:** /s/Kumar Dave  
Kumar Dave  
Office of Pavement Engineering  
Pavement Division

**SUBJECT:** LPA Pavement Design

**REVISES:** *Indiana Design Manual* (IDM) Section 304-5.02

**EFFECTIVE:** Immediately

The Department has updated the LPA pavement design process to allow local agencies to utilize their own pavement design criteria for locally owned, non-NHS routes.

Revisions the referenced section of the IDM are below and are incorporated into the IDM on-line.

**IDM Revisions – LPA Pavement Design**

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### **304-5.02 Local Public Agency (LPA) Pavement Design Process**

The qualifications of the pavement designer noted in Section 304-5.0 apply to LPA projects. The project intent and its impacts on the pavement structure should be understood prior to developing the pavement treatment recommendation. LPA pavement designs will be reviewed and approved by INDOT as noted in the following sections.

#### **304-5.02(01) LPA Final Pavement Design for Locally-Owned, Non-NHS Routes**

Projects that include work on a locally-owned, non-NHS route do not require review and approval by INDOT.

The LPA may follow the INDOT pavement design process (Section 304-5.01), or choose to use their own pavement design criteria.

Where an LPA chooses to use their own pavement design criteria, the following will apply:

- The LPA is responsible for the design and performance of the pavement section.
- A life-cycle cost analysis in accordance with Section 304-20.0 is not required.
- It is the LPA's responsibility to ensure that the pavement pay items are compatible with the INDOT *Standard Specifications*.
- If the LPA uses a standard typical pavement section, it must be included in the final pavement design report.
- The final pavement design report must be initialed by the Employee in Responsible Charge (ERC) sealed, signed, and dated by a licensed Indiana Professional Engineer and uploaded to ERMS as the Final Pavement Design.

#### **304-5.02(02) LPA Final Pavement Design for State and NHS Routes**

Projects that include work on a State route or NHS route must be reviewed and approved by a Central Office pavement design engineer and follow the INDOT pavement design process. See Section 304-5.01.

#### **304-5.02(03) Standard Pavement Designs for Low Volume Roads and Trails**

Standard pavement sections may be used in lieu of project-specific pavement designs for low volume roads and trails as follows:

1. Aggregate Pavement on Low Volume Roads, AADTT  $\leq$  50 trucks. The pavement section will consist of:

4" Compacted Aggregate No. 73, on  
6" Compacted Aggregate No. 53, on  
Subgrade Treatment, Type III, or as specified in the geotechnical report

See Typical Section on Figure 304-21AA.

2. Trails and other Non-Vehicular Use Facilities. The pavement sections will consist of the section as shown on the INDOT *Standard Drawings* series 502-NVUF for concrete pavement and 604-NVUF for HMA pavement.

**304-5.02(04) Notification of Pavement Design Approval [Rev. Feb. 2018]**

For projects reviewed and approved by INDOT, the Central Office pavement engineer will send a Letter of Pavement Analysis/Design Acceptance (acceptance letter) to the ERC, INDOT project manager, and the LPA pavement designer.

The acceptance letter should be initialed by the ERC, combined with the final pavement design report, and uploaded into ERMS as the Final Pavement Design. Preferably, the file should be upload within two weeks of receiving the acceptance letter. The pavement designer should notify the district coordinator, INDOT project manager, INDOT Central Office pavement design coordinator, and the ERC when the file has been uploaded.

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