

from current policies and explain the reasons for the variance; see Chapter 31. A few of the most frequently referenced policies and guidelines are as follows:

1. New Construction/Reconstruction. Part IV, Roadway Design Elements, and Part V, Design of Highway Types, provide cross section and alignment criteria for new construction projects on new location and for reconstruction projects.
2. Rehabilitation, Restoration, and Resurfacing (3R). Chapter 49 presents the Department's 3R criteria for non-freeways, and Chapter 50 presents the Department's 3R criteria for freeways.
3. Intersections/Interchanges. Chapters 36 and 37 provide design guidance for intersections and interchanges.
4. Access Control/Access Management. Chapter 35 presents Department policies and guidelines for the control of access on freeways and expressways and access management principles.
5. Bikeways/Pedestrians. Chapters 47, 48, and 58 present Department policies for the accommodation of bicyclists and pedestrians within the highway right-of-way.
6. Roadside Safety. Chapter 38 discusses the selection and layout of roadside safety appurtenances. The design policies for protective barriers (e.g., median barriers, longitudinal barriers, impact attenuators) included in Chapter 38 are for new construction/reconstruction projects. For 3R improvements, Chapters 49 and 50 present roadside safety design policies.
7. Structures. For the structural design and rehabilitation of existing bridges, the Bureau of Bridges and Structures maintains several manuals for design. For structure geometrics, Chapter 39 documents bridge width and vertical clearance criteria for new construction/reconstruction improvements. Chapters 49 and 50 present geometric design criteria for bridges within the limits of 3R projects.
8. Pavements. Chapters 53 and 54 present information for determining the pavement design for new construction/reconstruction projects and for the rehabilitation of existing pavements.
9. Other Department Publications. The Illinois Department of Transportation publishes and maintains a wide variety of engineering documents in addition to the *BDE Manual*. These address land acquisition, traffic engineering, structural design, hydraulics, materials, and construction. Chapter 60 of the *BDE Manual* briefly describes these publications. As needed, the Phase I designer should review other Department publications for use in project evaluation.