

## **SECTION 2D-8 CAPACITY ANALYSIS - PLAN IDENTIFICATION - ALIGNMENT AND GRADES**

### **CAPACITY ANALYSIS**

The capacity checks previously documented should be reviewed and updated if necessary. The capacity analyses as indicated in [Chapter 2B, Section 2B-3-DETERMINATION OF ROADWAY DESIGN](#) should be performed. In addition, the designer should review the following:

Major At-grade intersection capacity checks:

1. Overall intersection level of service
2. Level of service for each approach
3. Number and length of turning lanes
4. Pedestrian and bicycle influence

Interchange capacity checks:

1. Basic ramp level of service
2. Ramp Termini level of service
3. Entrance - Exit levels of service
4. Weave - merge lane lengths and widths
5. Acceleration - deceleration lane lengths

All capacity checks shall be reviewed with the Transportation & Mobility Planning Division and shall be documented in project files.

### **UPDATING PLAN IDENTIFICATION**

The Project Manager: (VDOT), Surveyed By: (L&D Survey Office Manager or Consultant Survey Project Manager), Design Supervised By: (Responsible Person)\* and Designed By: (Designer) names are to be shown in the top left corner of the border of each plan and profile sheet. Project numbers not previously assigned are to be obtained through the "Project Pool" in IPM. State project numbers must be shown on the plan and profile sheets to which they apply. (Federal project numbers are to be shown on the Title Sheet only.) Bridge project numbers are to appear only on the sheets that actually apply to the structure such as the plan sheet showing the bridge, its profile and typical section, the crossroad profile, if applicable, and the title sheet.

The "PE" project number is to be shown on the title sheet only.

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\* Rev. 7/09