

## Chapter 13

### Initial Engineering Design Process

The following are changes, additions or deletions to the January 2012, Topic #625-000-007, Plans Preparation Manual (PPM) - English, for use on Turnpike projects only:

#### 13.2 Initial Engineering Design (Phase I)

*Add the following as items 12 & 13*

12. Identify seasonal high water and design high water (not peak design stage) elevation and check base clearance (PPM, Chapter 2).
13. Identify applicable project drainage criteria and constraints. Determine impacts to project design and schedule.

#### 13.5 Support Services

*Add the following as items 21 through 27*

21. Toll Operations
22. Environmental Permitting
23. ITS
24. Lighting/Electrical
25. Concepts
26. Architecture
27. Materials (pavement)

##### 13.5.2.2 Projects Involving Bridges with Asbestos Containing Materials

*Add the following after item 10*

For Turnpike Policy and Procedures as it pertains to asbestos on bridges, please refer to Chapter 26, Section 26.9.2, Item #14.

#### 13.6 Preliminary Geometry, Grades, and Cross Sections

*Add the following sentence at the end of 3<sup>rd</sup> paragraph*

Refer to TPPPH Volume 1, Section 16.2.5.1, for specific submittal and coordination requirements of the preliminary line and grade.