

## Chapter 11

### Special Profiles

The following are changes, additions or deletions to the January 2003, Topic #625-000-007, Plans Preparation Manual (PPM) - English, for use on Turnpike projects only:

#### 11.8 Treatment/Attenuation Swales

*Add the following section*

The following labels shall be used to locate and identify treatment swales in the profile view of the plans:

Begin Treatment/Attenuation Swale Sta. 99+99 Left (or Right)

End Treatment/Attenuation Swale Sta. 108+46 Left (or Right)

Construct Ditch Block; Sta. 99+99 Left (or Right); Top Elevation 10.30

Begin Treatment/Attenuation Berm Sta. 99+99 Left (or Right); Top Elevation 10.50

End Treatment/Attenuation Berm Sta. 108+46 Left (or Right); Top Elevation 10.50

For plan sets that do not have a profile view, the stations and elevations above shall be summarized in a table that uses the same naming convention. Suggested formats are shown below.

| Summary of Treatment/Attenuation Swale Locations |           |             |         |       |
|--|-----------|-------------|---------|-------|
| Begin Station                                    | Begin DPI | End Station | End DPI | Side  |
| 99+99  | 10.30     | 108+46      | 10.30   | Left  |
| 103+02   | 10.70     | 106+53      | 10.20   | Right |
| 107+98   | 9.45      | 110+78      | 9.00    | Right |

| Summary of Ditch Blocks |       |           |
|-------------------------|-------|-----------|
| Station                 | Side  | Top Elev. |
| 99+99                   | Left  | 10.30     |
| 100+02                  | Right | 11.25     |
| 123+56                  | Left  | 9.70      |

| Summary of Treatment/Attenuation Berm Locations |                 |             |               |       |
|---|-----------------|-------------|---------------|-------|
| Begin Station                                   | Begin Top Elev. | End Station | End Top Elev. | Side  |
| 99+99   | 12.30           | 108+46      | 12.30         | Left  |
| 103+02  | 13.00           | 106+53      | 12.50         | Right |

Note that Treatment/Attenuation Berm Locations need only be specified when a special longitudinal berm is to be constructed above natural ground in order to increase storage in the swale. Where the outside boundary of the treatment/attenuation swale is the intersection between the backslope and natural ground, the drainage engineer will ensure that the design high water does not exceed the elevation of the intersection point and no special berm information is necessary in the plans. See Exhibit 10-1 for a list of General Notes required.