### Modification Summary

#### Effective: 03-01-2020

<table>
<thead>
<tr>
<th>Drawing</th>
<th>Modification Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-DRN-600</td>
<td>Added steps so they are shown on both sides of the restrictor plate in the Profile View.</td>
</tr>
<tr>
<td></td>
<td>Changed the weir notch width from 0.30' to X.XX' in the Restrictor Plate Detail.</td>
</tr>
<tr>
<td>M-DRN-601</td>
<td>Added a top slope water tight transition fitting.</td>
</tr>
<tr>
<td></td>
<td>Minor edits.</td>
</tr>
</tbody>
</table>

**New Sheet**

**Retired Standard**
### Design Elements

<table>
<thead>
<tr>
<th>Type</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Volume</td>
<td>V (acres)</td>
</tr>
<tr>
<td>Check Dam Top Width</td>
<td>L (feet)</td>
</tr>
<tr>
<td>Check Dam Height</td>
<td>D (feet)</td>
</tr>
<tr>
<td>Manhole</td>
<td>D (feet)</td>
</tr>
<tr>
<td>Manhole Cover</td>
<td>S (slope)</td>
</tr>
<tr>
<td>Horizontal Pipe Material Width</td>
<td>P (feet)</td>
</tr>
<tr>
<td>Vertical Pipe Material Width</td>
<td>D (feet)</td>
</tr>
<tr>
<td>Invert Elevation</td>
<td>D (feet)</td>
</tr>
<tr>
<td>Top of Structure Elevation</td>
<td>D (feet)</td>
</tr>
<tr>
<td>System Slope</td>
<td>S (slope)</td>
</tr>
<tr>
<td>Vertical Diameter</td>
<td>D (feet)</td>
</tr>
<tr>
<td>Check Dam Height</td>
<td>D (feet)</td>
</tr>
</tbody>
</table>

### Restricter Plate Details

1. The slopes are expressed as units of vertical displacement to units of horizontal displacement, V:H.
2. The contractor has the option to use a concrete restricter plate, details are to be provided on this sheet.

### Note to Designer

3. The steel restricter plates, details are to be provided on this sheet.
4. The steel restricter plates, details are to be provided on this sheet.

### Outlet Control Structure

**Check Dam**

*Top of LID Elevation*

*Flatch Slab Top*

*Earth from Embankment*

*Subsoil Trench*

*Top of Structure Elevation*

*High Water Elevation*

*Manhole*

### Sample Restricter Plate Details

![Restricter Plate Detail](image)

### Design Notes

- The design shown on this sheet is for new construction and is not a standard design.
- Completion by the designer prior to insertion into a final design submittal.
- The design shown on this sheet is not a standard design.
- Completion by the contractor prior to insertion into a final design submittal.
- The design shown on this sheet is not a standard design.
- Completion by the contractor prior to insertion into a final design submittal.
SLOPE DRAIN

**Note to Designer**

The base layer shows typical new construction not to scale. This geometry is highly variable and does not reflect a complete shape or size. The designer may use this sketch to generate an itemized estimate. The actual size and shape may vary considerably from the proposed design.

The construction is to be completed at the discretion of the owner. The designer shall adjust the geometry and location of any construction to avoid any potential conflicts with existing features.

All notes to designer shall be included prior to submission of the design to the owner.

<table>
<thead>
<tr>
<th>Station</th>
<th>Offset</th>
<th>Station</th>
<th>Offset</th>
<th>Top of Restrictor Plate elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CATCH BASIN, TYPE G-3**

- Frame and Grate (as indicated on plans)
- Proposed Slope
- Top Slope Water Tight Transition Fitting
- Concrete Collar (Type)
- Catch Basin, Type G-3 and Restrictor Plate

**Restrictor Plate Detail**

- Steel Restrictor Plate
- Transition Fitting

**Catch Basin, Type G-3 Drainage Structure Plan**

- Slope Drain
- Restrictor Plane
- Steel Restrictor Plane
- Proposed Slope

**Section A-A**

- Medium Type R-108-62 or Approved Equal
- Top of Storm Sewer
- Top of Catch Basin, Type G-3

**Notes:**

1. The storm sewer, concrete collar, catch basin, type G-3, restrictor plate and frame and grate shall be included in the cost of slope drain of the diameter specified.
2. See Illinios Tollway Standard B8 for Dimension of Catch Basin, Type G-3 Structure.
3. The top of the catch basin, type G-3 shall be cut in the field to match the proposed embankment slope.
4. The Contractor has the option to use a concrete restrictor plate that is precast within the catch basin structure.
5. Pipe material shall be noted with smooth interior or epoxy coated corrugated galvanized steel pipe of the size specified.

**SLOPE DRAIN**

- Illinois Tollway
- M-DRN-601

- Date: 5-1-2000
NOTE TO DESIGNER

1. The ends of the pipe underdrains (outlet) at grade shall be protected by a permanent rodent shield in accordance with Standard B24.

NOTE TO DESIGNER

List of items that need to be noted for the design of the project:
- Bioswale, Type 1
- Bioswale, Type 2
- Bioswale, Type 3

Details for each type:

1. Bioswale, Type 1:
   - Use loose sand fill for drain outlet at grade or as a drainage structure and stabilize soil.
   - Use topsoil as provided in the plan set.
   - Planting is not a standard drawing. It requires completion by the designer.

2. Bioswale, Type 2:
   - Use topsoil as provided in the plan set.
   - Planting is not a standard drawing. It requires completion by the designer.

3. Bioswale, Type 3:
   - Use topsoil as provided in the plan set.
   - Planting is not a standard drawing. It requires completion by the designer.

NOTES TO DESIGNER

- Bioswale
- Geotechnical Fabric Special
- Porous Gravel Backfill Special

Insertion of the sheet into the plan set. All "NOTE TO DESIGNER" boxes shall be removed prior to sheet upon its completion and insertion into a contract. The designer shall accept the responsibility of the design of this ROW. The designer files and the "CADD Standards Manual" are available on the Illinois Tollway website. The designer shall complete the design by the end of the sheet. The designer shall note to the designer other boxes may be removed upon insertions of the sheet into the plan set.