

PCC SHOULDER PANEL LOCATIONS ²⁾

Price bid for "Bridge End Drain, DR-401" is full compensation for furnishing, installing, and constructing the Bridge End Drain as shown.

- ¹⁾ Continue 4 inch sloped curb to edge of flume per section B-B. Refer to BR-201, BR-202, BR-203, or BR-204 for details of 4 inch curb.
- ²⁾ DI-1 and DI-2 distances measured from center of Bolt Pattern.
- ³⁾ Abut Transition Mat (see EC-105) panels to the edge of the pavement to prevent from being undercut by water. Cut panels to fit around guardrail posts to ensure pavement edge contract. No deduction will be made for area of Transition Mat removed for guardrail posts.

Possible Contract Items:
 Bridge End Drain, DR-401
 Paved Shoulder, Portland Cement Concrete (Paved Shoulder Panel for Bridge End Drain)

Incidental to Paved Shoulder:
 Modified Subbase
 Polymer Grid

Incidental to Bridge End Drain:
 Transition Mat
 Seeding and Fertilizing
 Soil Fill
 Special Ditch Control (Wood Excelsior Mat)
 Turf Reinforced Mat, Type 2
 Watering for Sod, Special Ditch Control, or Slope Protection
 Mobilization for Watering

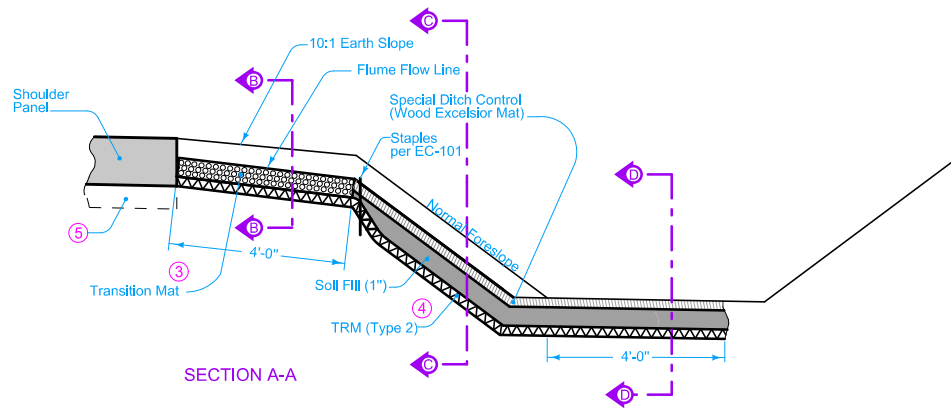
Possible Tabulation:
 104-8A

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|---------------------------|---------------|
| IOWA DOT | REVISION |
| | 3 10-17-17 |
| STANDARD ROAD PLAN | DR-401 |
| SHEET 1 of 2 | |

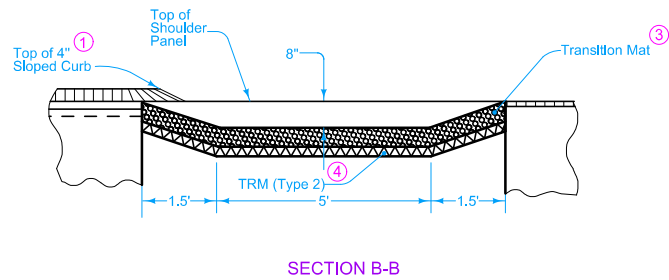
REVISIONS: Modified the PLAN view drawing on page 1 to better indicate paved shoulder panel width carries past the flume.

Brian Smith
 APPROVED BY DESIGN METHODS ENGINEER

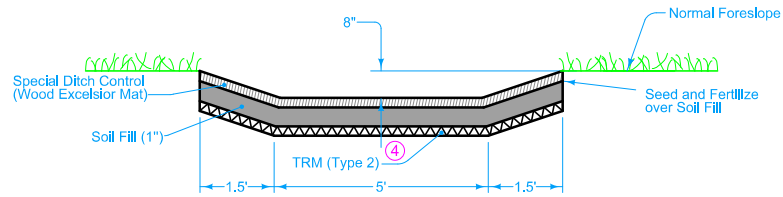
**SCOUR PROTECTION
 FOR BRIDGE END DRAIN**



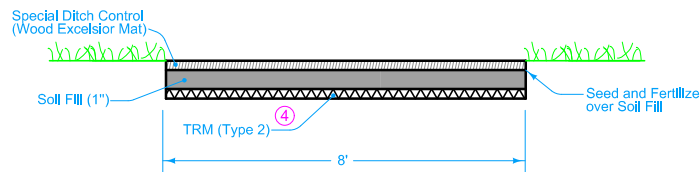
- ① Continue 4 inch sloped curb to edge of flume per section B-B. Refer to BR-201, BR-202, BR-203, or BR-204 for details of 4 inch curb.
- ③ Abut Transition Mat (see EC-105) panels to the edge of the pavement to prevent from being undercut by water. Cut panels to fit around guardrail posts to ensure pavement edge contact. No deduction will be made for area of Transition Mat panel removed for guardrail posts.
- ④ Extend TRM (see EC-104) flume 4 feet beyond toe of slope.
- ⑤ Install modified subbase and polymer grid under PCC shoulder panels as shown in Section A-A on BR-201, BR-202, BR-203, or BR-204.
- ⑥ Transition the flume flow line depth from 3 inches at the downstream edge of Transition Mat to 8 inches with an approximate transition rate of 1 inch vertical per 1 foot horizontal.
- ⑦ Transition the flume flow line depth from 8 inches at the toe of slope to 0 inches with an approximate transition rate of 2 inches vertical per 1 foot horizontal.



SECTION B-B



SECTION C-C ⑥



SECTION D-D ⑦

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| STANDARD ROAD PLAN | REVISION |
| | 3 10-17-17 |
| | DR-401 |
| SHEET 2 of 2 | |
| <small>REVISIONS: Modified the PLAN view drawing on page 1 to better indicate paved shoulder panel width carries past the flume.</small> | |
| <small>APPROVED BY DESIGN METHODS ENGINEER</small> | |
| SCOUR PROTECTION FOR BRIDGE END DRAIN | |