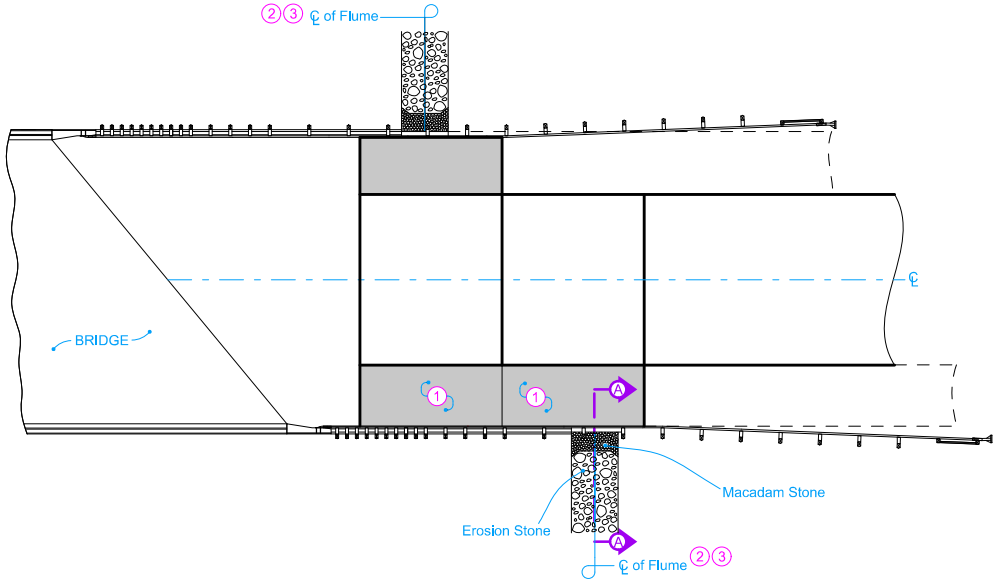
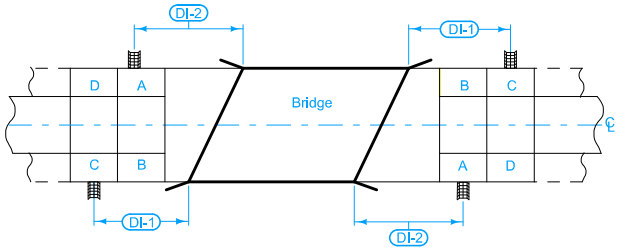
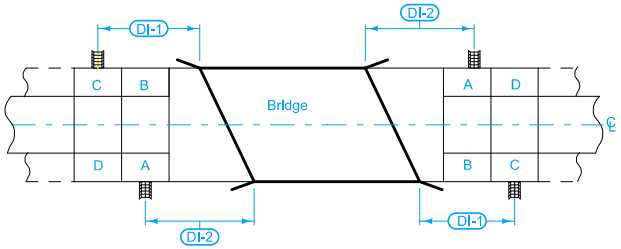
DESIGNER INFO



PLAN





PCC SHOULDER PANEL LOCATIONS 2

Price bid for "Bridge End Drain, DR-402" 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. Extend rock flume to toe of backslope. If no backslope exists, extend rock flume a minimum of 4 feet beyond the toe of foreslope.

Possible Contract Items:
- Paved Shoulder, Portland Cement Concrete (Paved Shoulder Panel for Bridge-End Drain)
- Bridge End Drain, DR-402

Incidental to Paved Shoulder:
- Modified Subbase
- Polymer Grid

Incidental to Bridge End Drain:
- Macadam Stone Base Material
- Erosion Stone
- Engineering Fabric
- Excavation, hauling, and disposing of material

Possible Tabulation:
- 104-8A

IOWA DOT

STANDARD ROAD PLAN

REVISION 2 10-18-16

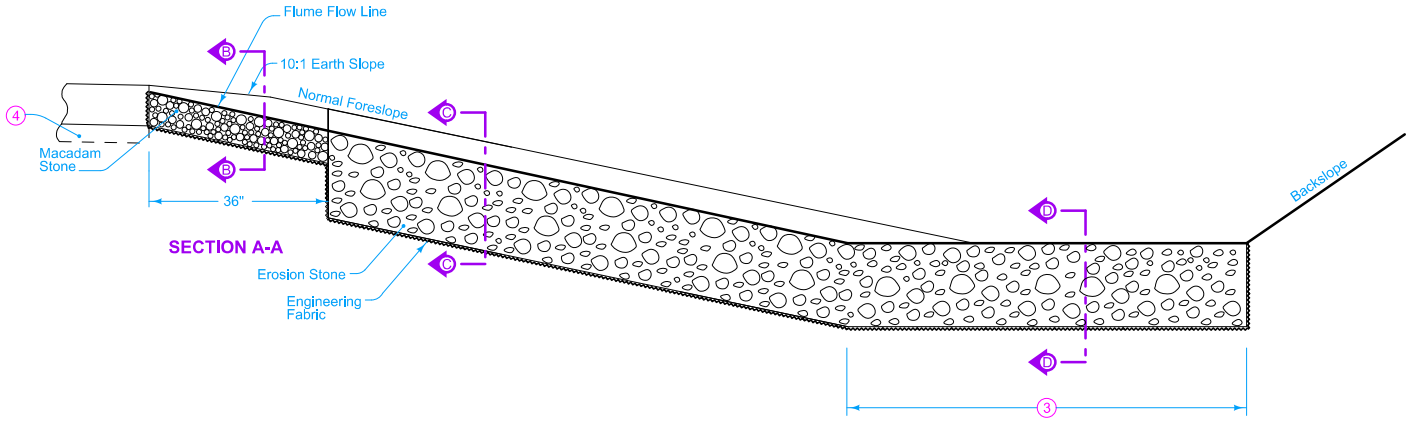
DR-402

SHEET 1 of 2

REVISIONS: Modified Section A-A. Added Section D-D. Renumbered notes 2 through 5. Added note 6.

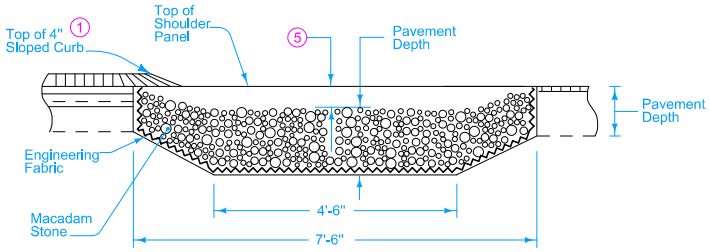
Brian Smith
APPROVED BY DESIGN METHODS ENGINEER

ROCK FLUME FOR BRIDGE END DRAIN

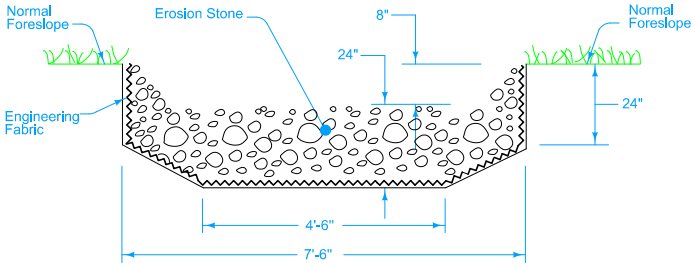


SECTION A-A

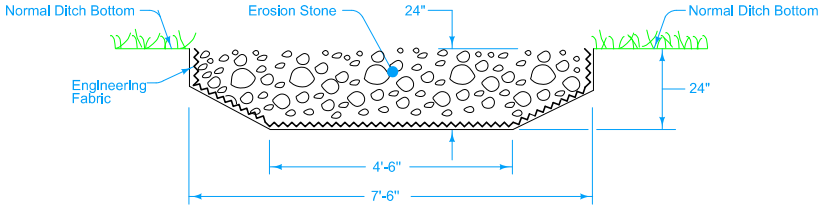
1. Continue 4 inch sloped curb to edge of flume per section B-B. Refer to BR-201, BR-202, BR-203, or BR-204 for details of 4 inch curb.
3. Extend flume to toe of backlope. If no backslope exists, extend rock flume a minimum of 4 feet beyond the toe of foreslope.
4. Install modified subbase and polymer grid under PCC shoulder panels as shown in Section A-A on BR-201, BR-202, or BR-203, or BR-204.
5. Transitions from 2 inches at edge of pavement to 8 inches within 3 feet.
6. 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 per 1 foot horizontal.



SECTION B-B



SECTION C-C



SECTION D-D 6

IOWA DOT

STANDARD ROAD PLAN

REVISION	
2	10-18-16

DR-402

SHEET 2 of 2

REVISIONS: Modified Section A-A. Added Section D-D. Renumbered notes 2 through 5. Added note 6.

Brian Smith

APPROVED BY DESIGN METHODS ENGINEER

ROCK FLUME FOR BRIDGE END DRAIN