

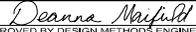
PLAN VIEW OF BRIDGE BERM (BARNROOF FORESLOPE)

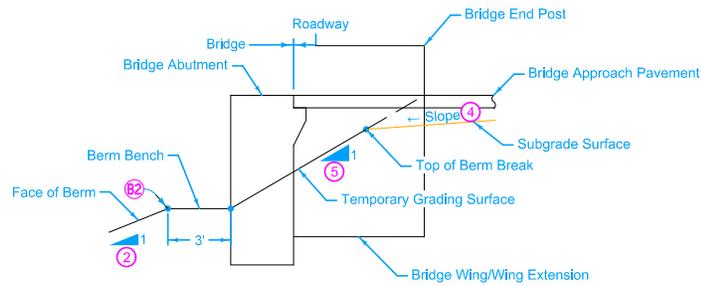
Refer to berm slope location table in project plans for locations of Points; A1, A2, A3, B1, B2, B3, C1, C2, and C3.

The cost of removal, stockpiling and placement of macadam stone shall be considered incidental to "Paved Shoulder, P.C. Concrete".

- ① Special shaping.
- ② Face of bridge berm slope may vary and is determined by the A and B points. Slope is normally 2.5:1 or flatter.
- ③ Refer to contract documents for limits of the slope protection.
- ⑮ Slope as determined by points B3 and C2. Normally 6:1 or flatter.

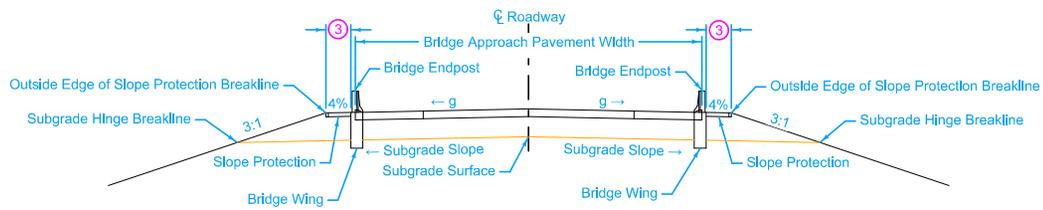
Possible Tabulation: 104-9

 <b>Iowa Department of Transportation</b>	REVISION
	New 04-19-11
<b>STANDARD ROAD PLAN</b>	<b>EW-204</b>
REVISIONS: New. Replaces RL-15 and Detail 4303.	SHEET 1 of 5
 APPROVED BY DESIGN METHODS ENGINEER	
<b>BRIDGE BERM GRADING WITH RECOVERABLE SLOPE (BARNROOF SECTION)</b>	

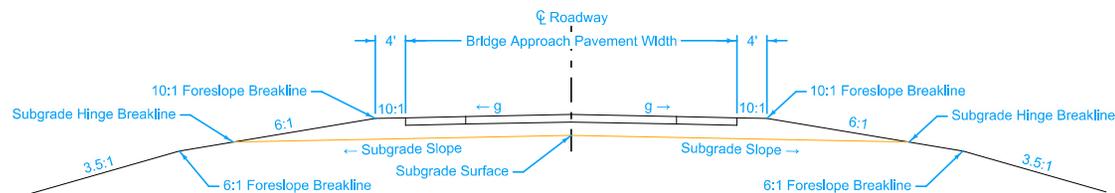


SECTION C-C

- ② Face of bridge berm slope may vary and is determined by the A and B points. Slope is normally 2.5:1 or flatter.
  - ③ Refer to contract documents for limits of the slope protection.
  - ④ Refer to RK series for longitudinal subgrade slope.
  - ⑤ Temporary grading slope.
- g* = pavement cross slope.

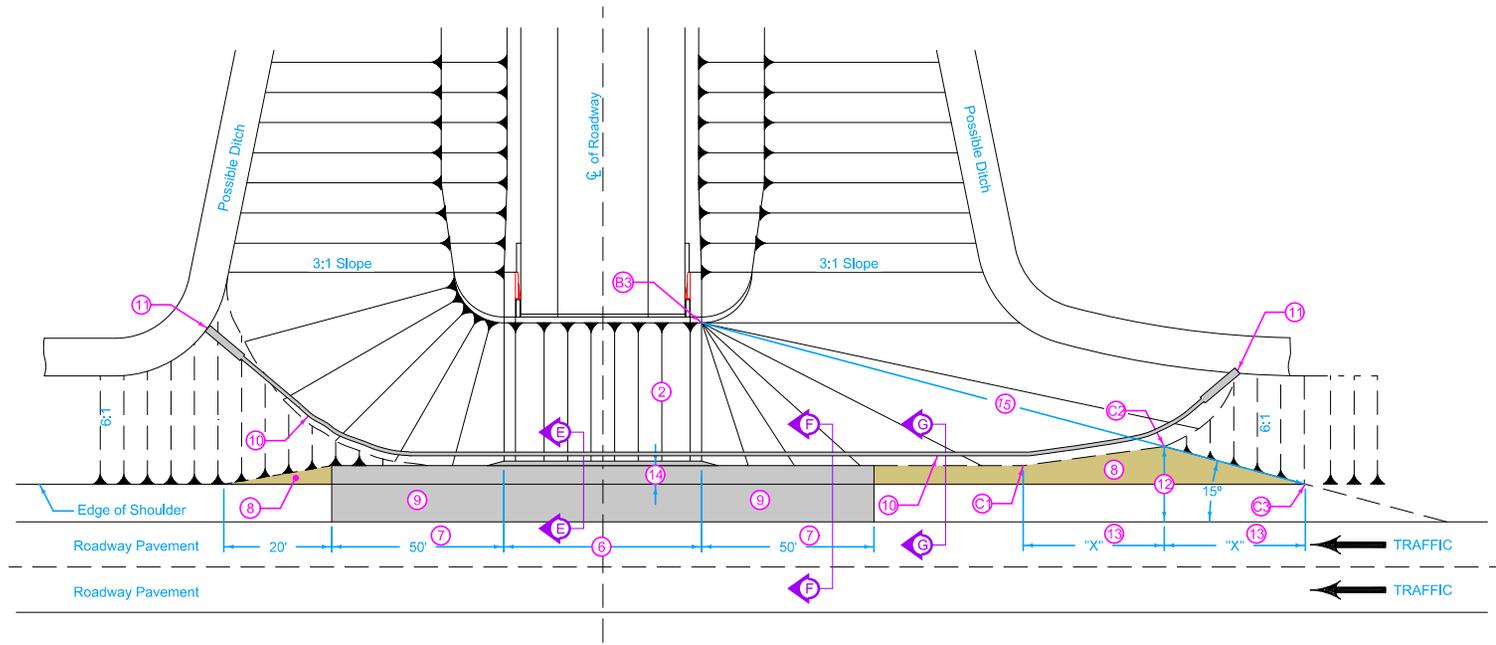


SECTION B-B



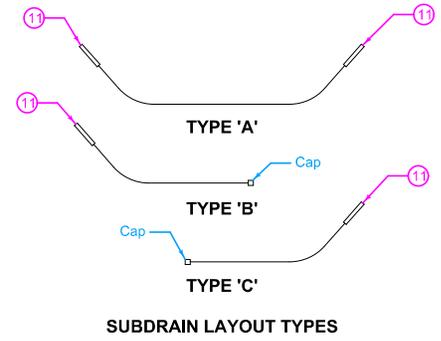
SECTION A-A

 <b>Iowa Department of Transportation</b>	REVISION
	New 04-19-11
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REVISIONS: New. Replaces RL-15 and Detail 4303.	SHEET 2 of 5
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<b>BRIDGE BERM GRADING          WITH RECOVERABLE SLOPE          (BARNROOF SECTION)</b>	



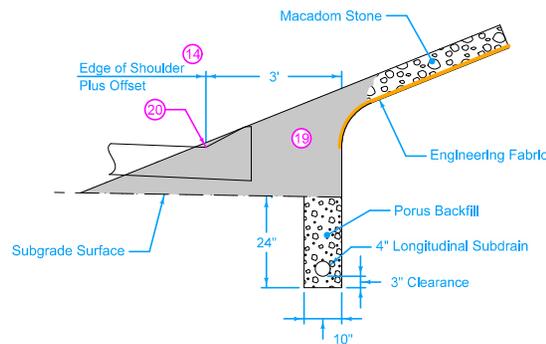
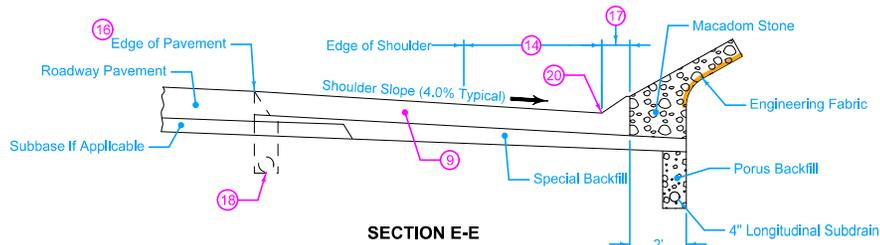
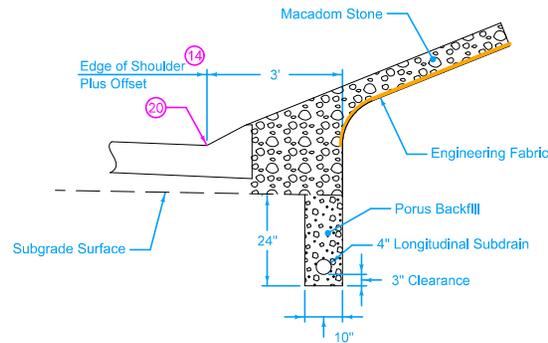
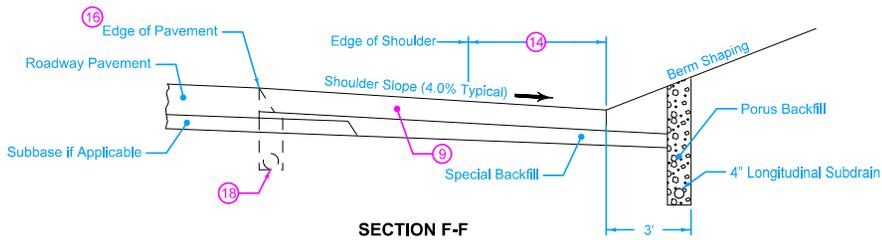
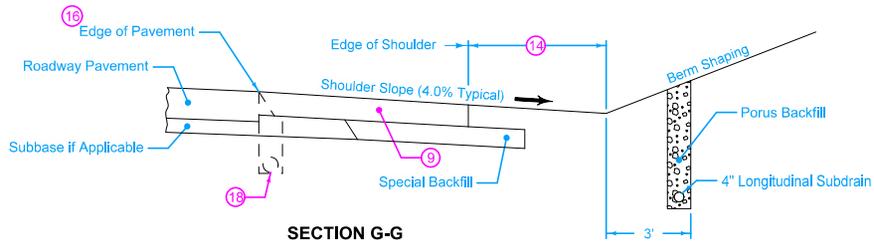
- ② Face of bridge beam slope may vary and is determined by the A and B points. Slope is normally 2.5:1 or flatter.
- ⑥ Width of bridge slab + 3' on each side. Build 6" sloped curb to this width. Refer to PV-102 for curb details.
- ⑦ Includes curb runoff length. Refer to PV-102 for curb runoff details.
- ⑧ Match typical shoulder slope.
- ⑨ See typical cross-sections for details of paved shoulder.
- ⑩ Approximate location of bridge subdrain.
- ⑪ Refer to RF-19E subdrain outlet. When flow of subdrain does not require an outlet at both ends, cap the end without an outlet in a method approved by the Engineer.
- ⑫ 2 times typical shoulder width.
- ⑬ "X" distance based on station difference between points C2 and C3.
- ⑭ 5' offset unless otherwise noted on the Bridge Situation Plan, 4' offset minimum.
- ⑮ Slope as determined by points B3 and C2. Normally 6:1 or flatter.

PLAN VIEW OF BRIDGE BERM AREA



SUBDRAIN LAYOUT TYPES

	REVISION
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- 9 See typical cross-sections for details of paved shoulder.
- 14 5' offset unless otherwise noted on the Bridge Situation Plan. 4' offset minimum.
- 16 If roadway pavement is newly-constructed PCC, use BT-1 or BT-2 joint. If roadway pavement is existing PCC, use BT-3, BT-4, or BT-5 joint. Refer to PV-101 joint details.
- 17 6" sloped curb. Refer to PV-102 curb details.
- 18 Roadway subdrain location. Use caution when excavating. Maintain porous material in trench to bottom of roadway pavement.
- 19 Remove and stockpile macadam stone. Carefully separate the macadam stone from the surrounding soil. Preserve the integrity of the engineering fabric.
- 20 Toe of the berm. Refer to Point A on the the bridge situation plan in the contract documents for the berm slope location table.

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<b>BRIDGE BERM GRADING WITH RECOVERABLE SLOPE (BARNROOF SECTION)</b>	

This image can be viewed in 3D on the the ERL or at our website <http://www.iowadot.gov/design/stdrdpln.htm>



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	SHEET 5 of 5	
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<i>Deanna Maifield</i> APPROVED BY DESIGN METHODS ENGINEER		
<b>BRIDGE BERM GRADING WITH RECOVERABLE SLOPE (BARNROOF SECTION)</b>		