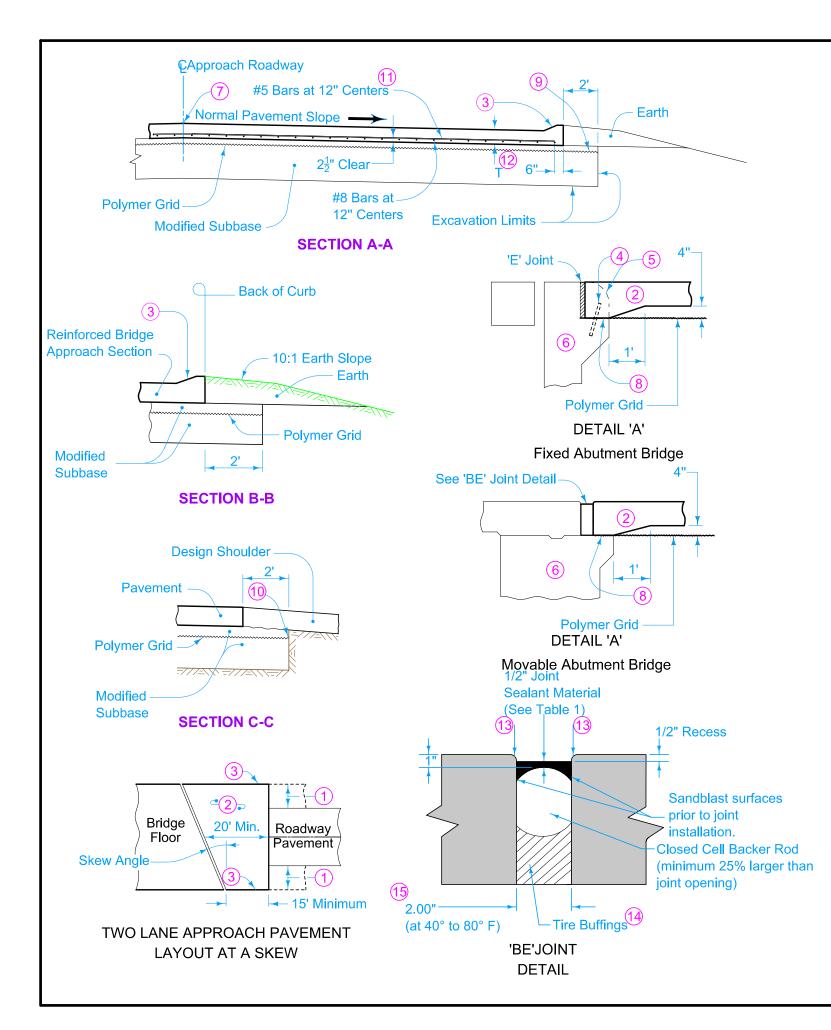
# **Bridge Approach**

# BR

## **Bridge Approach**

	TITLE
10-15-24	Bridge Approach Section (General Details)
10-15-24	Bridge Approach Section (Two-Lane, Abutting PCC Pavement)
10-15-24	Bridge Approach Section (Two-Lane for Bridge Reconstruction, PCC Pavement)
10-15-24	Bridge Approach Section (at Existing Bridges, PCC Pavement)
10-15-24	Bridge Approach Section (Two-Lane, HMA Pavement)
10-15-24	Bridge Approach Section (Two-Lane for Bridge Reconstruction, HMA Pavement)
10-15-24	Bridge Approach Section (at Existing Bridges, HMA Pavement)
10-15-24	PCC Overlay of Bridge Approach Section
10-15-24	Bridge Approach Details (in Conjunction with Bridge Deck Overlay)
10-15-24	Bridge Approach Details (Secondary Roads)
10-15-24	Double Reinforced 10" Approach
10-15-24	Double Reinforced 10" Approach with Variable Depth Paving Notch
10-15-24	Double Reinforced 12" Approach
10-15-24	Double Reinforced 12" Approach with Variable Depth Paving Notch
10-15-24	Double Reinforced 12" Approach (Slab Bridge)
	Bridge Approach (Abutting PCC or Composite Pavement)
	Bridge Approach (Abutting HMA Pavement)
	Bridge Approach (Abutting Pavement)
	Bridge Approach (Multi-Lane, Curbed Roadway)
10-15-24	Double Reinforced 10" Approach On Gravel Roads
	10-15-24 10-15-24 10-15-24 10-15-24 10-15-24 10-15-24 10-15-24 10-15-24 10-15-24 10-15-24 10-15-24 10-15-24



- 1 Design Shoulder width.
- 2 Reinforced Bridge Approach Section.
- 3 Build curb. See Detail 'C'. Refer to PV-102 for runout details.
- 4 Reinforcing Bar.
- (5) Temporary paving block removed by paving contractor.
- 6 Bridge Abutment.
- (7) Longitudinal Joint (PV-101): Single pour - Saw cut joint per Detail B. Two pours - Use 'KS-1' joint.
- 8 Secure polymer grid on top of paving notch.
- 9 Extend polymer grid to 2 feet outside edge of pavement.
- (10) Trim fabric to edge of excavation.
- 1) If bridge is skewed, place additional #5 bar parallel to skewed face.
- (12) T = 10 inches.

Table 1
Approved List of Sealar
Dow - Dowsil 902 RCS
Sika - Sikasil 728 RCS
Watson Bowman Acme Wabo SiliconeSeal
Pecora - 322FC

Sections and details apply to Standard Road Plans BR-112 and BR-102 through BR-107.

- (13) Edge with 1/4 inch tool for length of joint indicated if formed; edging not required when cut with diamond blade saw.
- (14) Compact tire buffings by spading with a squarenose shovel. Tire buffings shall not be larger than  $\frac{1}{2}$  inch.
- (15) Setting Width Notes:

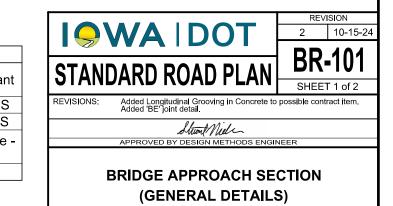
- Width is perpendicular to abutment.

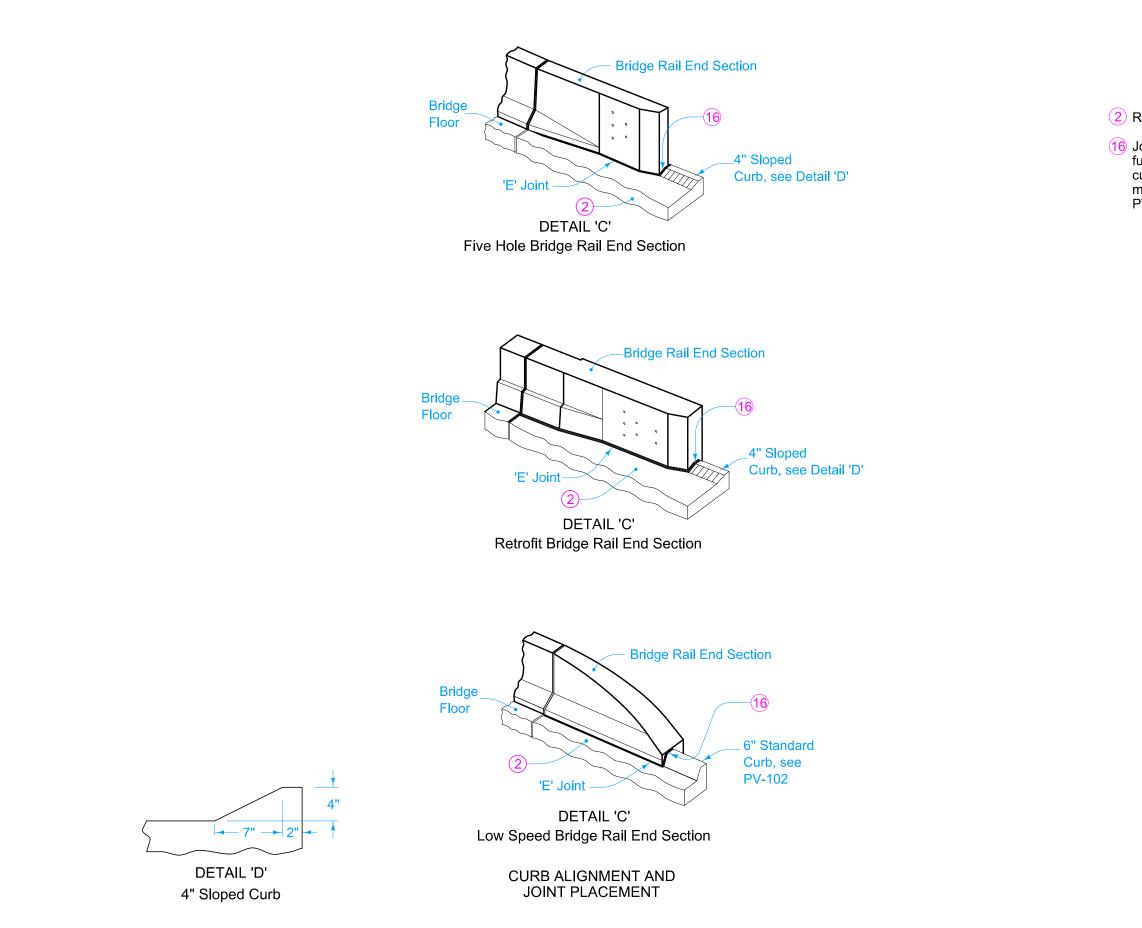
- Temperature of concrete deck on the underside or shaded portion of the deck shall be between 40 to 80 degrees Farenheit when placing approach slab concrete.

-This 'BE' joint and the setting temperatures may be used for all concrete beam or slab bridges up to 575' in length and for all steel girder bridges up to 400' in length.

Possible Contract Item: Bridge Approach, Two Lane Longitudinal Grooving in Concrete, Bridge Deck Longitudinal Grooving in Concrete, Pavement

Possible Tabulation: 112-6





(2) Reinforced Bridge Approach Section.

(16) Joint at end of Bridge Rail End Section: Place joint filler the full depth of the bridge approach pavement. In areas with curb, place full depth of pavement plus curb and shape material to fit the shape of the curb per Section B-B of PV-101. Seal joint per Detail F of PV-101.

- Fixed Abutment Bridges: Type 'E' Joint.
- Moveable Abutment Bridges: Flexible Foam Expansion Joint Filler complying with Section 4136 of the Standard Specifications. Set width of gap to 2 inches. Joint length as required to completely fill from back side of curb to front face of bridge wing.





Added Longitudinal Grooving in Concrete to possible contract item. Added 'BE' joint detail.

REVISION

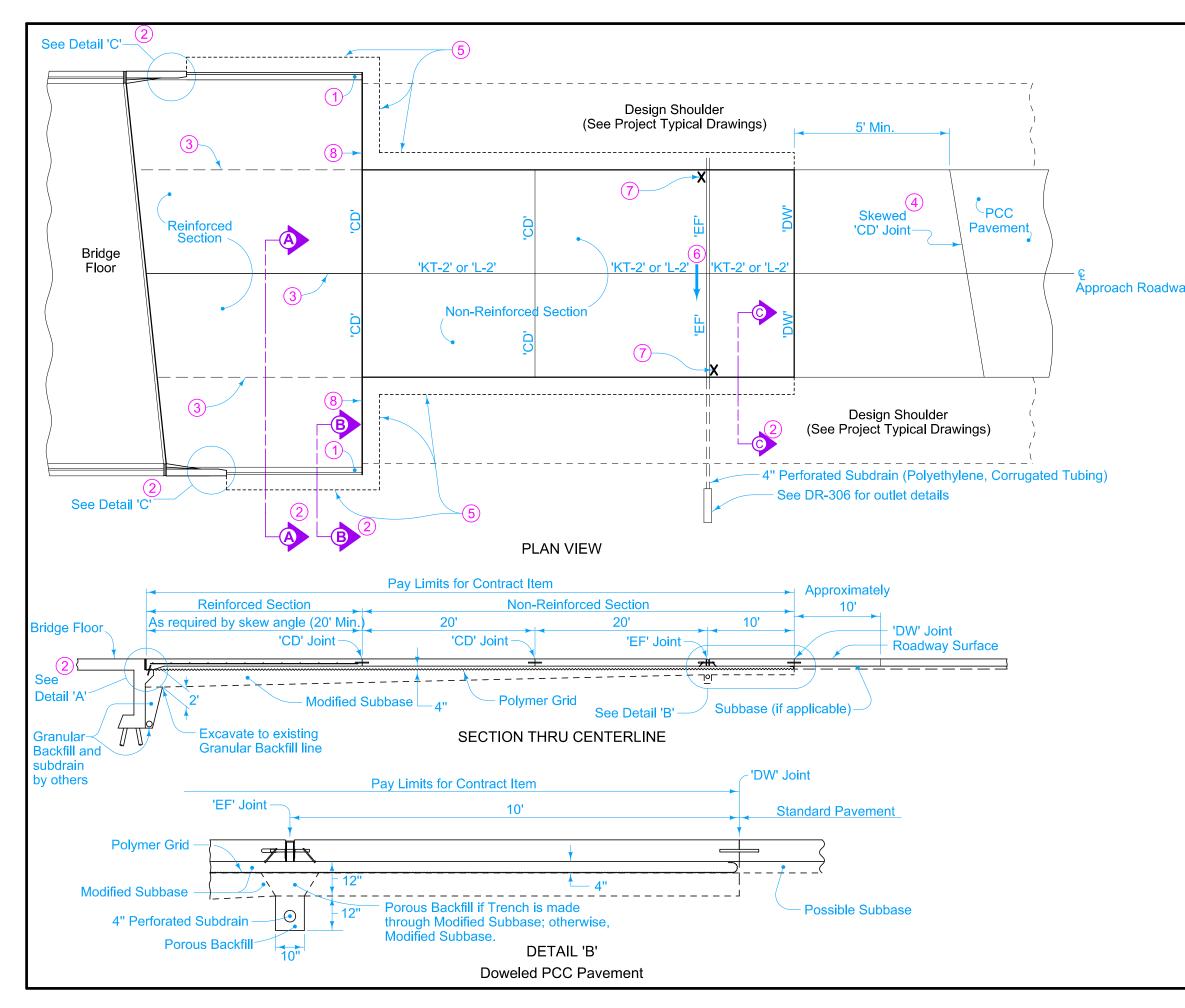
**BR-10**<sup>°</sup>

SHEET 2 of 2

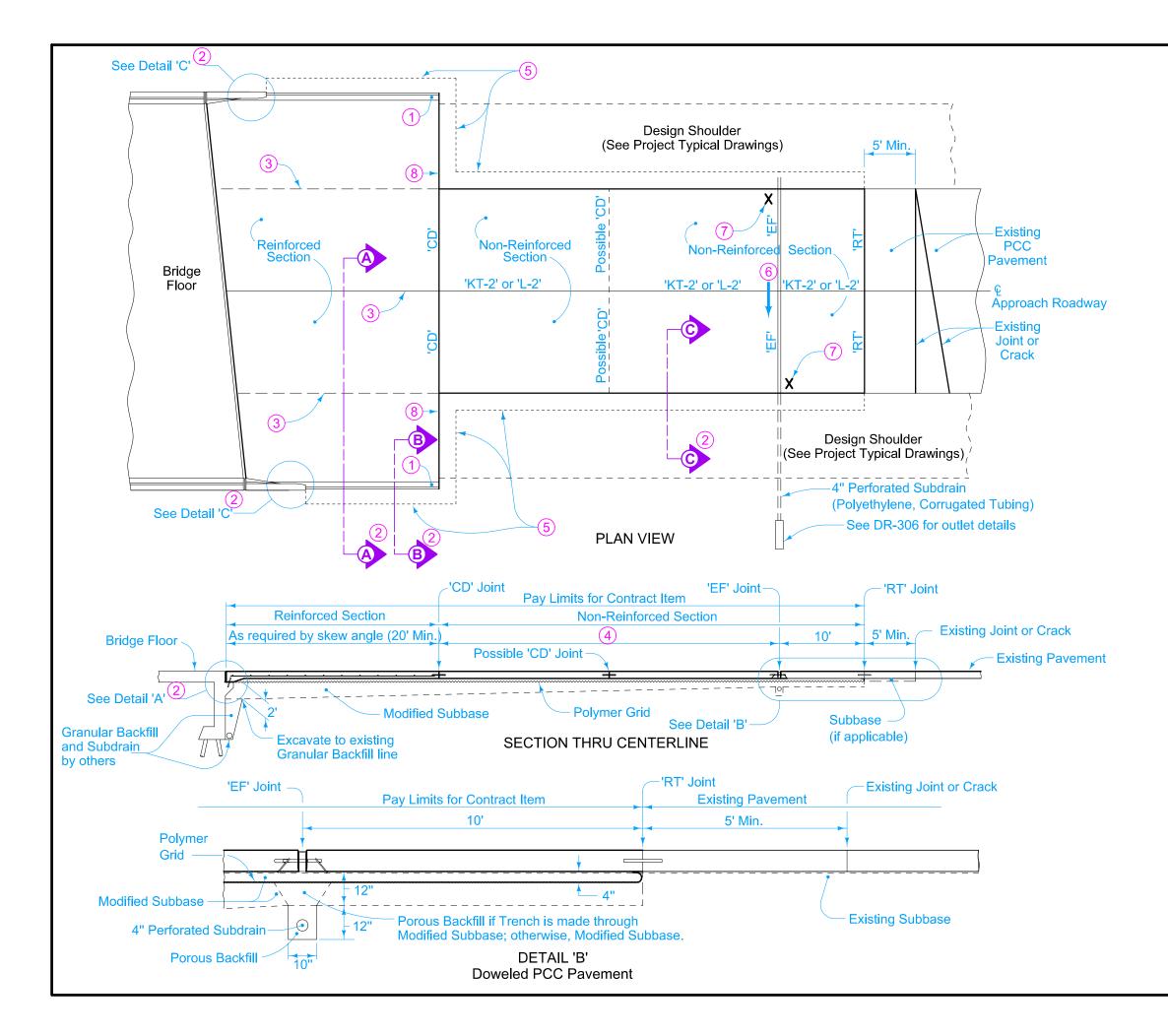
2 10-15-24

Sturt Mills APPROVED BY DESIGN METHODS ENGINEER

#### BRIDGE APPROACH SECTION (GENERAL DETAILS)



	For joint details, see PV-101.				
	1 Build curb to end of Reinforced Bridge Approach Section. See Curb Location Details (Section B- B on BR-101).				
	2) See BR-101.				
	3 Longitudinal Joint (PV-101): Single Pour - Saw cut joint per Detail B. Two Pours - Use 'KS-1' joint.				
ау	'CD' Joints required up to 300 feet each way from end of Reinforced Bridge Approach Section.				
	5 Excavation limits of Modified Subbase 2 feet outside of pavement edge, see BR-101.				
	6 Slope subdrain to drain.				
	<ul> <li>Place an "X" in the plastic concrete near the 'EF' joint at the outside edge of pavement.</li> </ul>				
	8 Place 'RD' joint where PCC shoulder. Place 'B' joint otherwise.				
	Possible Contract Item: Bridge Approach, Two Lane Longitudinal Grooving in Concrete, Bridge Deck Longitudinal Grooving in Concrete, Pavement				
	Possible Tabulation: 112-6				
	REVISION         2         10-15-24				
	BR-102				
	SIANDARD ROAD PLAN SHEET 1 of 1				
	REVISIONS: Added Longitudinal Grooving in Concrete to possible contract item.				
	APPROVED BY DESIGN METHODS ENGINEER				
	BRIDGE APPROACH SECTION				
	(TWO-LANE, ABUTTING PCC PAVEMENT)				



- (1) Build curb to end of Reinforced Bridge Approach Section. See Curb Location Details (Section B-B on BR-101).
- (2) See BR-101.
- 3 Longitudinal Joint (PV-101): Single Pour - Saw cut joint per Detail B. Two Pours - Use 'KS-1' joint.
- Minimum 1 panel, maximum 3 panels. 15 foot minimum, 20 foot maximum panel length. Use 'CD' joints.
- 5 Excavation limits of Modified Subbase 2 feet outside of pavement edge, see BR-101.
- 6 Slope subdrain to drain.
- 7 Place an "X" in the plastic concrete near the 'EF' joint at the outside edge of pavement.
- 8 Place 'RD' joint where PCC shoulder. Place 'B' joint otherwise.

Possible Contract Item:

Bridge Approach, Two Lane Longitudinal Grooving in Concrete, Bridge Deck Longitudinal Grooving in Concrete, Pavement

Possible Tabulation: 112-6





Added Longitudinal Grooving in Concrete to possible contract item

REVISION

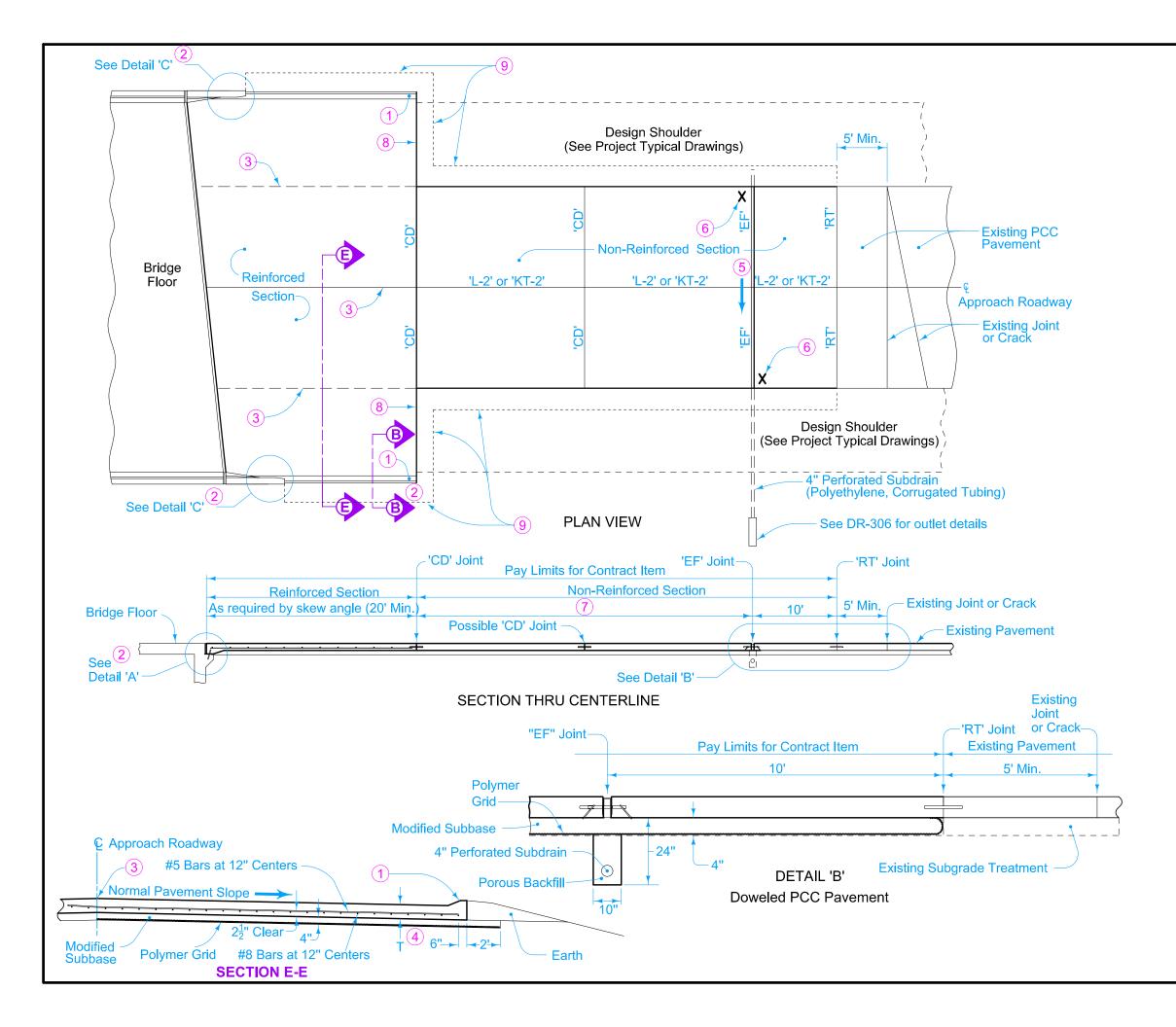
**BR-103** 

SHEET 1 of 1

2 10-15-24



BRIDGE APPROACH SECTION (TWO-LANE FOR BRIDGE RECONSTUCTION, PCC PAVEMENT)



- 1 Build curb to end of Reinforced Bridge Approach Section. See Curb Location Details (Section B-B on BR-101).
- 2 See BR-101.
- (3) Longitudinal Joint (PV-101): Single Pour - Saw cut joint per Detail B. Two Pours - Use 'KS-1' joint.
- (4) T = 10 inches.
- 5 Slope subdrain to drain.
- 6 Place an "X" in the plastic concrete near the 'EF' joint at the outside edge of pavement.
- Minimum 1 panel, maximum 3 panels. 15 foot minimum, 20 foot maximum panel length. Use 'CD' joints.
- 8 Place 'RD' joint where PCC shoulder. Place 'B' joint otherwise.
- 9 Excavation limits of Modified Subbase 2 feet outside of pavement edge, see BR-101.

Possible Contract Item:

Bridge Approach, Two Lane Longitudinal Grooving in Concrete, Bridge Deck Longitudinal Grooving in Concrete, Pavement

Possible Tabulation: 112-6



REVISIONS:

Added Longitudinal Grooving in Concrete to possible contract item

REVISION

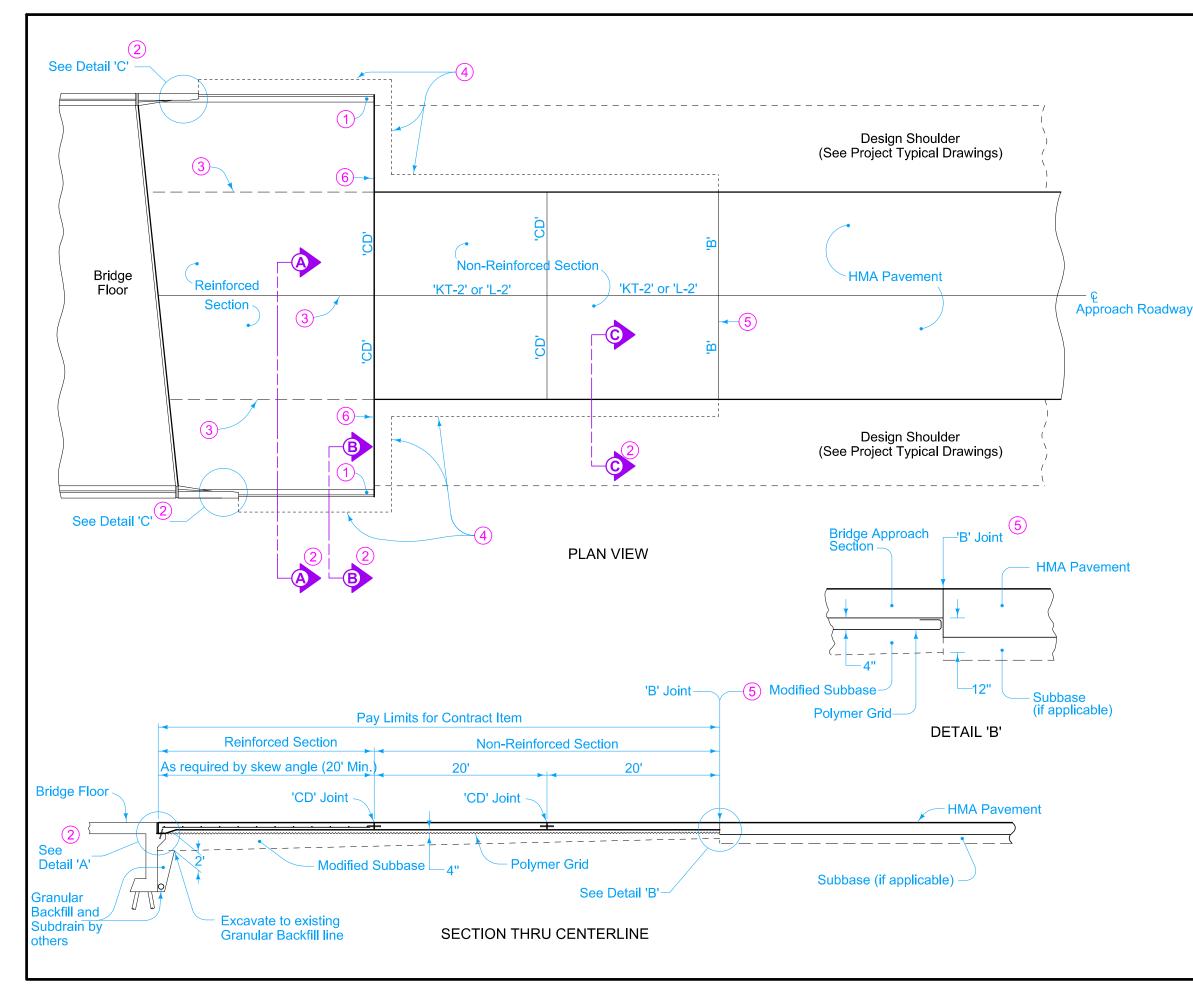
**BR-104** 

SHEET 1 of 1

2 10-15-24

APPROVED BY DESIGN METHODS ENGINEER

BRIDGE APPROACH SECTION (AT EXISTING BRIDGES, PCC PAVEMENT)



- (1) Build curb to end of Reinforeced Bridge Approach Section. See Curb Location Details (Section B-B on BR-101).
- (2) See BR-101.
- 3 Longitudinal Joints (PV-101): Single Pour - Saw cut joint per Detail B. Two Pours - Use 'KS-1' joint.
- 4 Excavation limits of Modified Subbase 2 feet outside of pavement edge, see BR-101.
- 5 The Contractor may need to saw cut the HMA pavement full depth to accommodate the 'B' joint.
- 6 Place 'RD' joint where PCC shoulder. Place 'B' joint otherwise.

Possible Contract Item: Bridge Approach, Two Lane Longitudinal Grooving in Concrete, Bridge Deck Longitudinal Grooving in Concrete, Pavement

Possible Tabulation: 112-6



REVISIONS:

Added Longitudinal Grooving in Concrete to possible contract item

REVISION

**BR-105** 

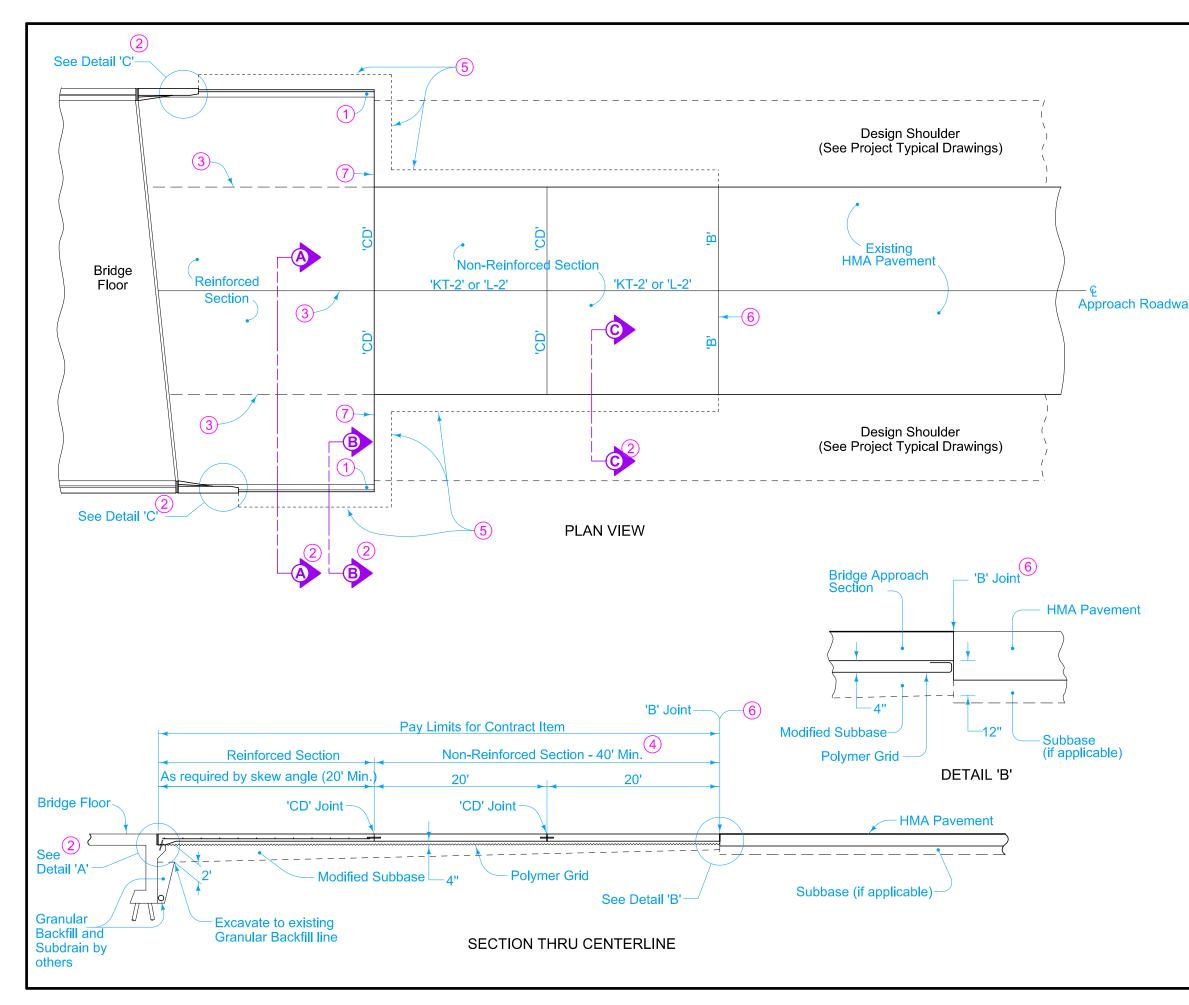
SHEET 1 of 1

1

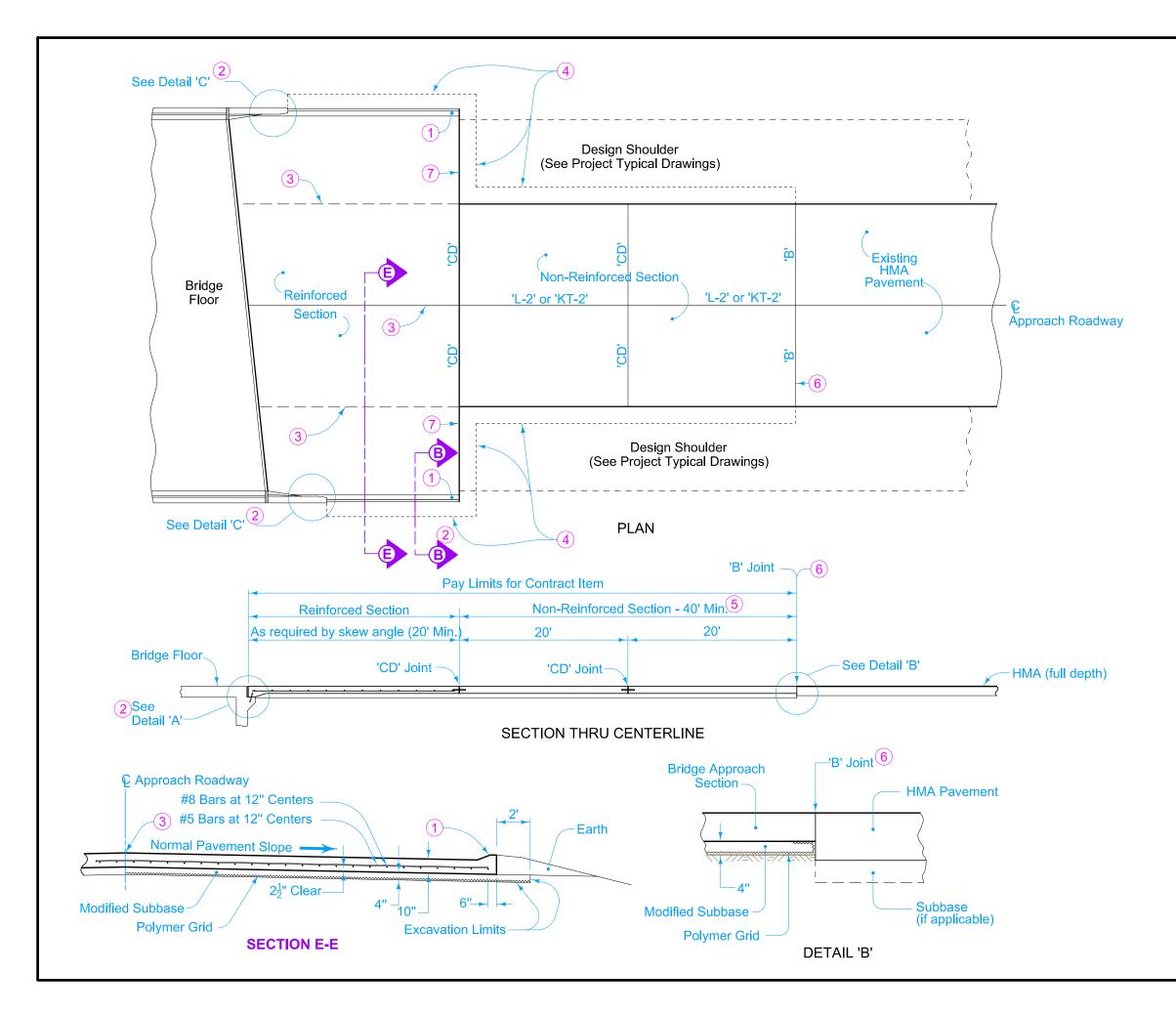
10-15-24



BRIDGE APPROACH SECTION (TWO-LANE, HMA PAVEMENT)



For joint details, see PV-101.					
1 Build curb to end of Reinforced Bridge Approach Section. See Curb Location Details (Section B-B on BR-101).					
2 See BR-101.					
3 Longitudinal Joint (PV-101): Single Pour - Saw cut joint per Detail B. Two Pours - Use 'KS-1' joint.					
4 Minimum 2 panels, maximum 3 panel length. Use 'CD' joints.	nels. 20 foot				
5 Excavation limits of Modified Subba outside of pavement edge, see BR					
6 The Contractor may need to saw car pavement full depth to accommoda joints.					
Place 'RD' joint where PCC should joint otherwise.	er. Place 'B'				
Possible Contract Item:					
Bridge Approach, Two Lane Longitudinal Grooving in Concrete, Bridge Deck Longitudinal Grooving in Concrete, Pavement					
Possible Tabulation: 112-6					
	REVISION 1 10-15-24				
	BR-106				
STANDARD ROAD PLAN	SHEET 1 of 1				
REVISIONS: Added Longitudinal Grooving in Concrete to possible contract item.					
APPROVED BY DESIGN METHODS ENGIN	NEER				
BRIDGE APPROACH SECTION (TWO-LANE FOR BRIDGE RECONSTRUCTION, HMA PAVEMENT)					



- 1 Build curb to end of Reinforced Bridge Approach Sections. See Curb Location Details (Section B-B on BR-101).
- (2) See BR-101.
- 3 Longitudinal Joints (PV-101):
   Single Pour Saw cut joint per Detail B.
   Two Pours Use 'KS-1' joint.
- 4 Excavation limits of Modified Subbase 2 feet outside of pavement edge, see BR-101.
- 5 Minimum 2 panels, maximum 3 panels 20 foot panel length. Use 'CD' joints.
- 6 The contractor may needto saw cut the HMA pavement full depth to accommodate the 'B' joint.
- 7 Place 'RD' joint where PCC shoulder. Place 'B' joint otherwise.

Possible Contract Item: Bridge Approach, Two Lane Longitudinal Grooving in Concrete, Bridge Deck Longitudinal Grooving in Concrete, Pavement

Possible Tabulation: 112-6



REVISIONS:

Added Longitudinal Grooving in Concrete to possible contract item

REVISION

**BR-107** 

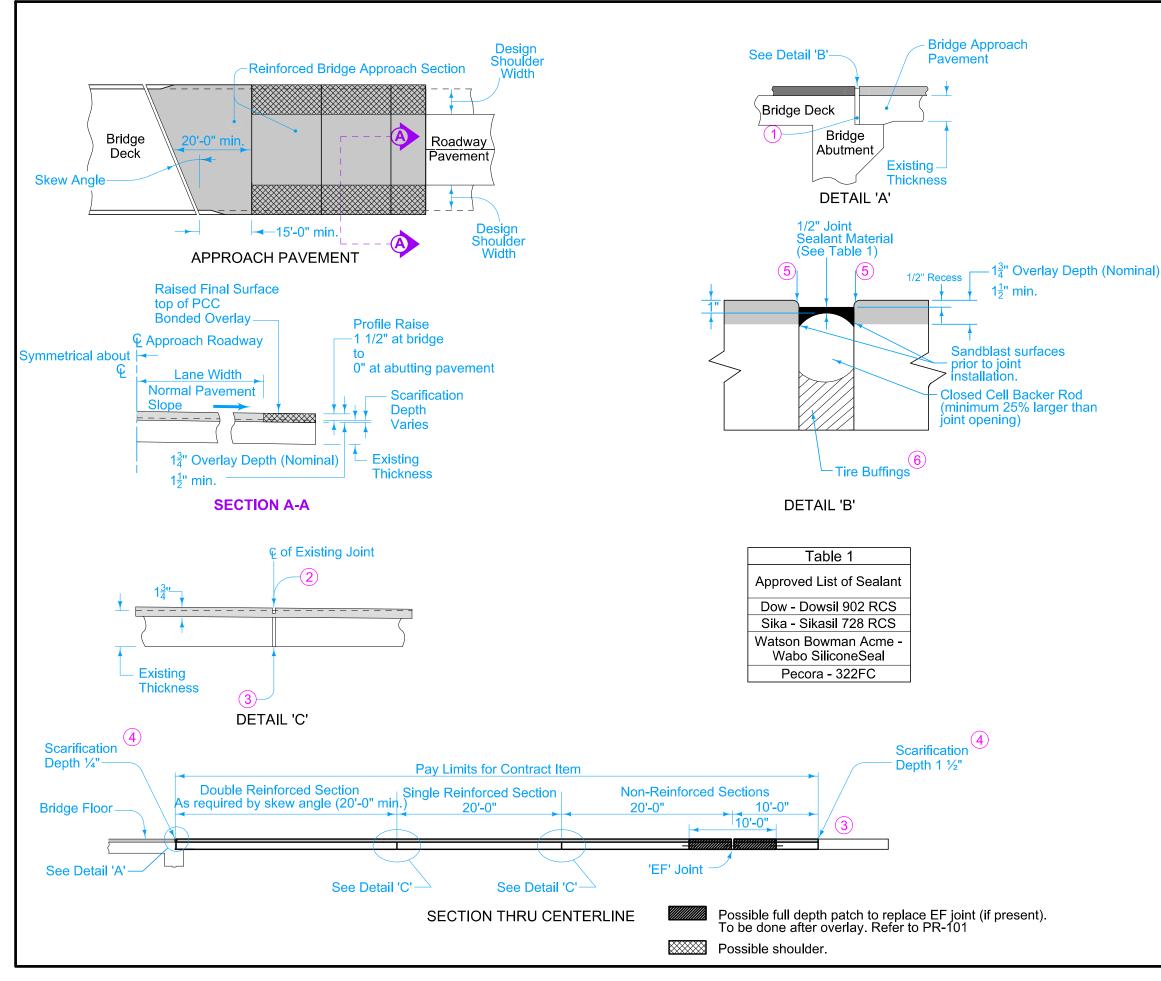
SHEET 1 of 1

10-15-24

1

APPROVED BY DESIGN METHODS ENGINEER

BRIDGE APPROACH SECTION (AT EXISTING BRIDGES, HMA PAVEMENT)



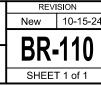
Remove all HMA within pay limits if present. Removal of previous HMA overlays will be incidental to "Deck Overlay" and will not be paid for seperately. Full depth patch maybe required to remove HMA, see project plans.

Overlaying of the bridge approach pavement with PCC will be paid for at the contract unit price for "Deck Overlay" according to Section 2413 of the Standard Specifications. Scarification to the depth required and joint sealing is incidental to "Deck Overlay".

This standard may be used with bridge overlays resulting in a profile change of up to 1.5 inches.

- (1)Existing joint. Remove all expansion material and clean joint area. Do not overlay and saw cut.
  - (2) Saw and seal over existing joint. Refer to Detail 'C' on PV-101.
  - (3) Existing joint. Remove debris and clean joint prior to overlay
  - (4) Depth of scarification shall transition evenly between ends of bridge approach.
  - Edge with <sup>1</sup>/<sub>4</sub> inch tool for length of joint indicated if formed; edging not required when cut with diamond blade saw.
  - 6) Tire buffings required when joint is 2 inches or greater. Compact tire buffings by spading with a square-nose shovel. Tire buffings shall not be larger than 1/2 inch.



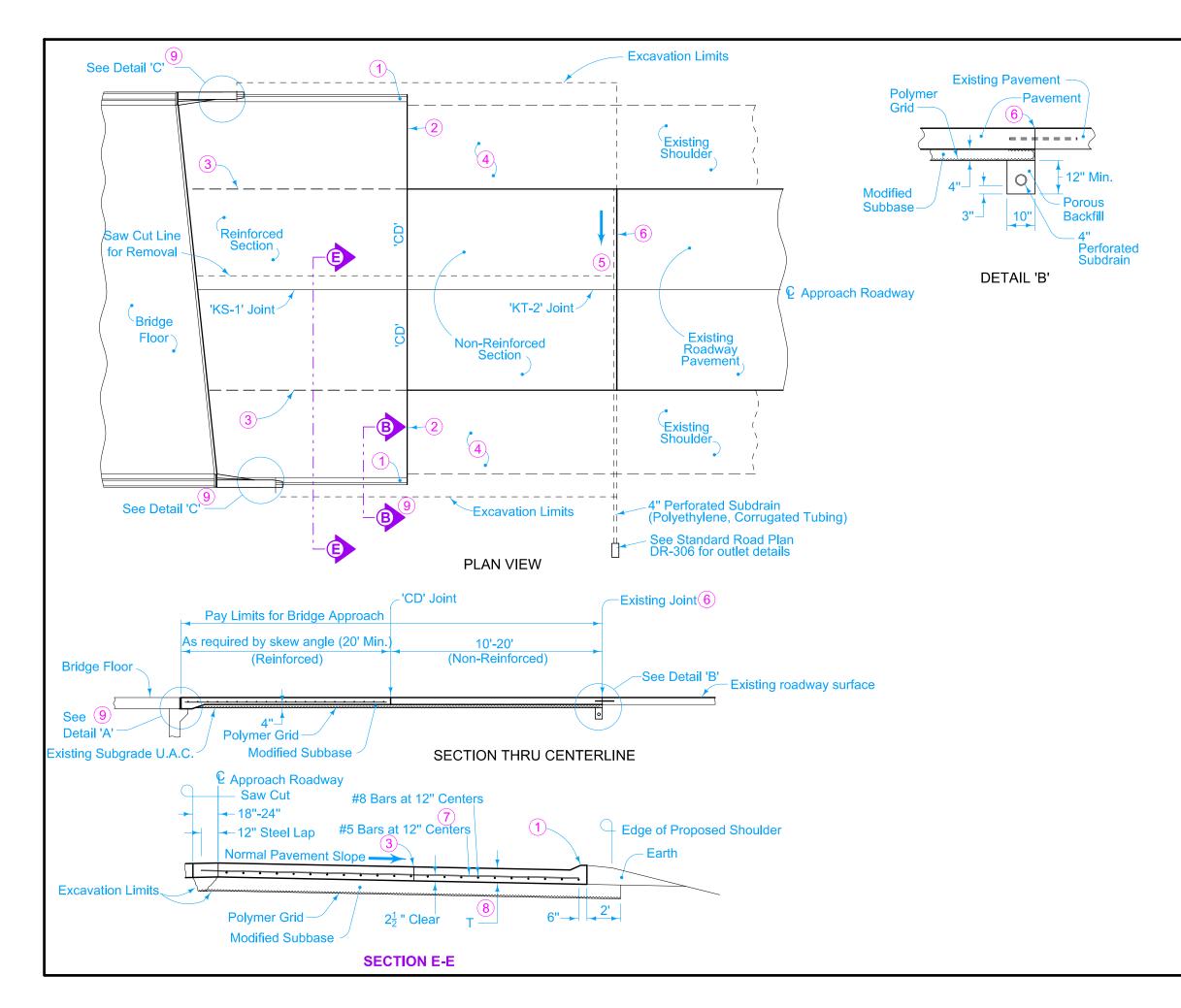


REVISIONS:

New. Replaces BR-111.

APPROVED BY DESIGN METHODS ENGINEER

PCC OVERLAY OF **BRIDGE APPROACH SECTION** 



Maintain traffic in adjacent lanes.

For joint details, see PV-101.

If an existing 'CF' joint is located approximately 60 feet from the new 'B' or 'RT' joint, the joint is to be recut to a width of 4 inches and new form joint material installed. If no 'CF' exists, construct a new 'CF' joint approximately 60 feet from the new 'B' or 'RT' joint.

Modified Subbase under paved shoulder panels adjacent to the bridge approach is incidental to "Paved Shoulder, P.C. Concrete", unless measured and paid for elsewhere on the project plans.

- 1 Build curb to end of Reinfoced Bridge Approach Section. See Curb Location Details (Section B-B on BR-101).
- 2 Place 'RD' joint if P.C. Shoulder; 'B' joint otherwise.
- 3 Optional 'KS-1' joint.
- 4 See Typical Paving Cross-Sections.
- 5 Slope Subdrain to drain.
- 6 Place 'RT' joint if existing pavement is P.C., 'B' joint otherwise.
- (7) If bridge is skewed, place additional #5 bar parallel to skewed face.
- 8 T=10 inches.
- (9) See BR-101.

Possible Contract Items:

Bridge Approach, Two Lane Paved Shoulder, P.C. Concrete Longitudinal Grooving in Concrete, Bridge Deck Longitudinal Grooving in Concrete, Pavement

PossibleTabulation: 112-6



REVISIONS:

Added Longitudinal Grooving in Concrete to possible contract item.

REVISION

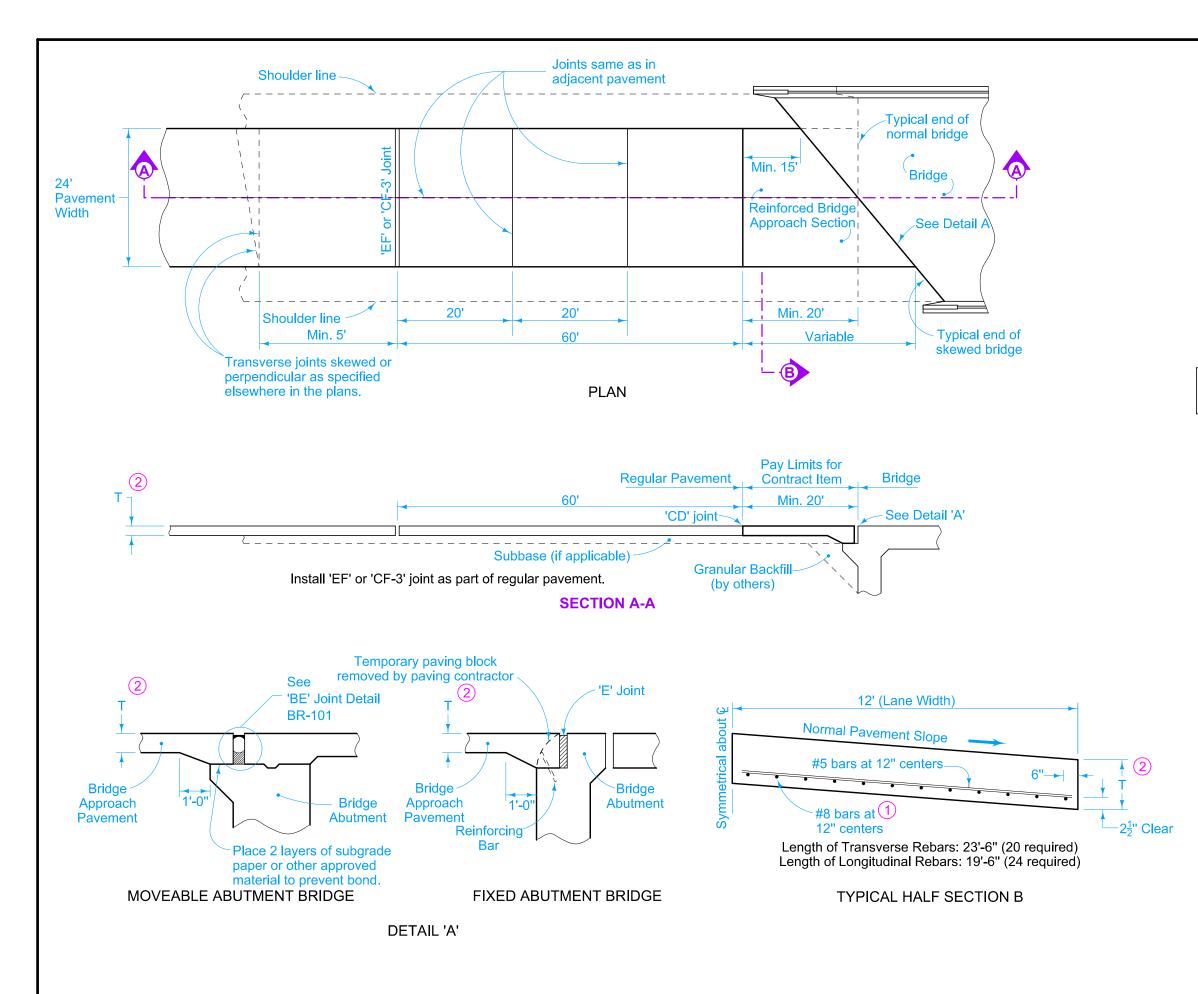
**BR-112** 

SHEET 1 of 1

2 10-15-24

APPROVED BY DESIGN METHODS ENGINEER

BRIDGE APPROACH DETAILS (IN CONJUNCTION WITH BRIDGE DECK OVERLAY)



Use the same concrete for the bridge approach section as is used for the remainder of the project pavement.

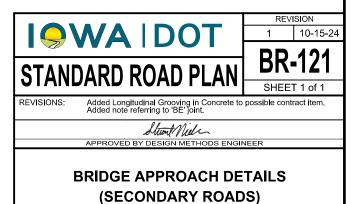
For joint details, see PV-101.

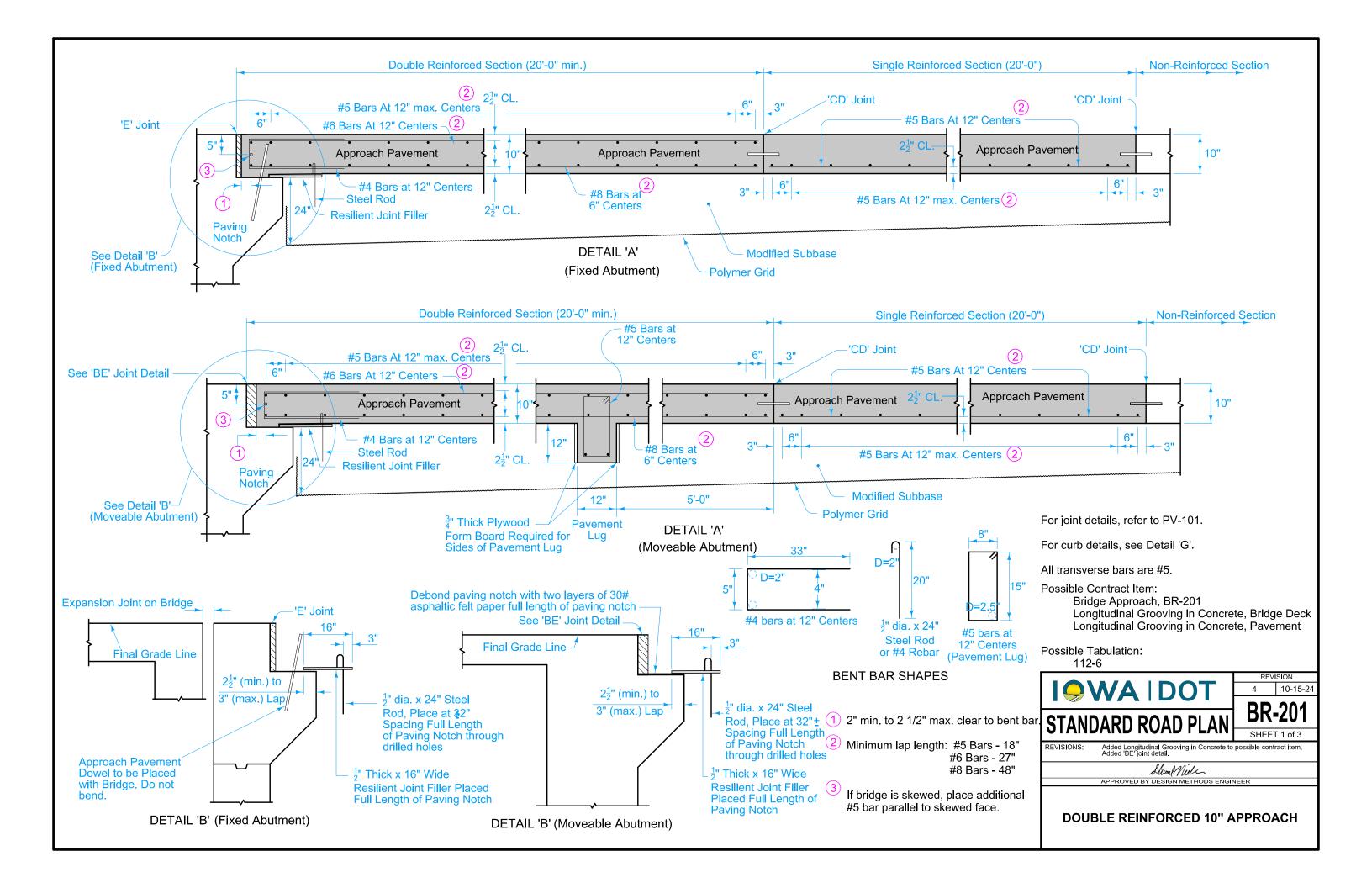
- 1 If bridge is skewed, place additional #5 bar parallel to skewed face.
- (2) T is the same thickness as is required for the remainder of the project pavement.

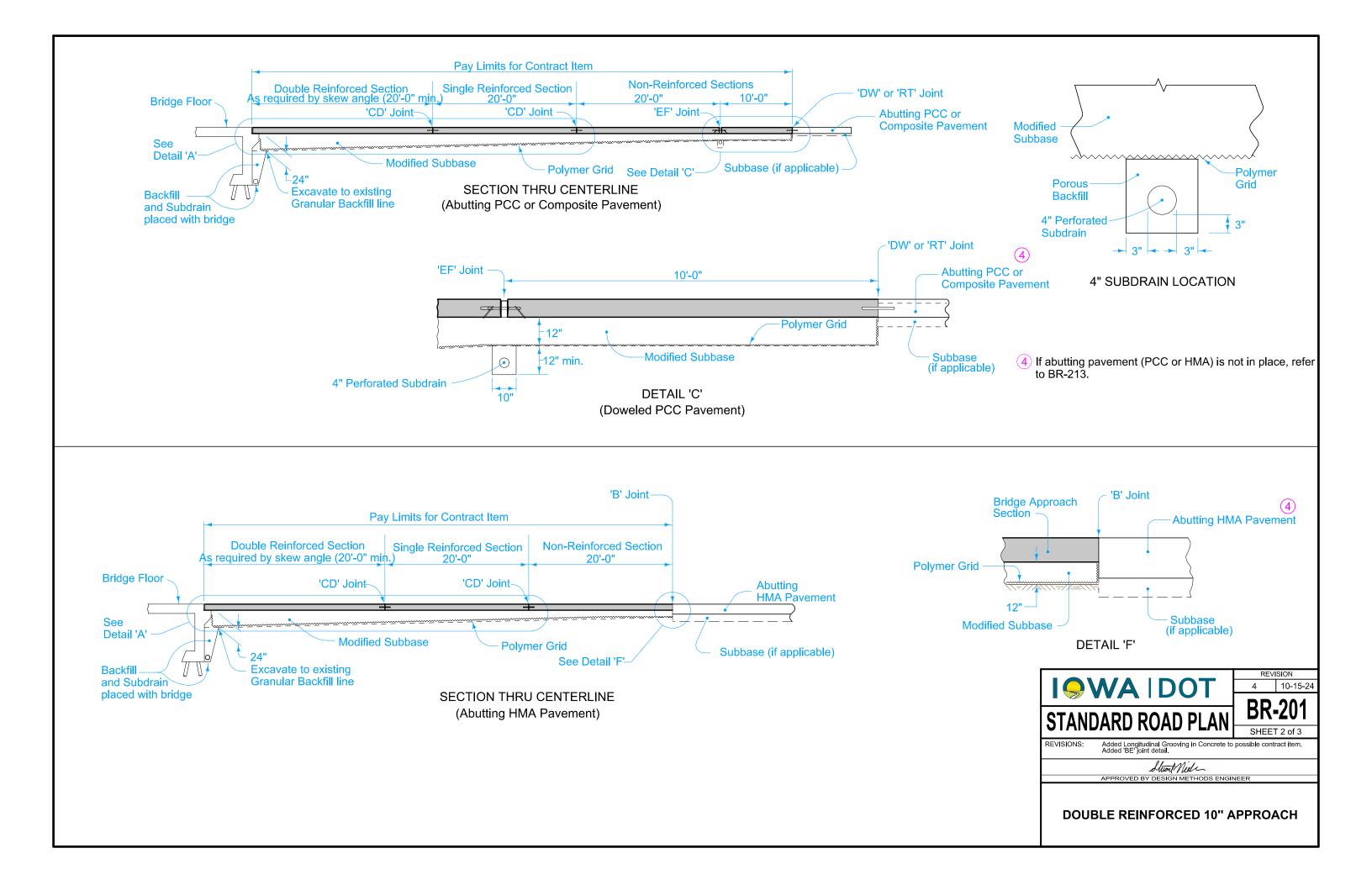
## Quantity for 20 foot long approach section for 24 foot pavement is 53.33 square yards of "Bridge Approach."

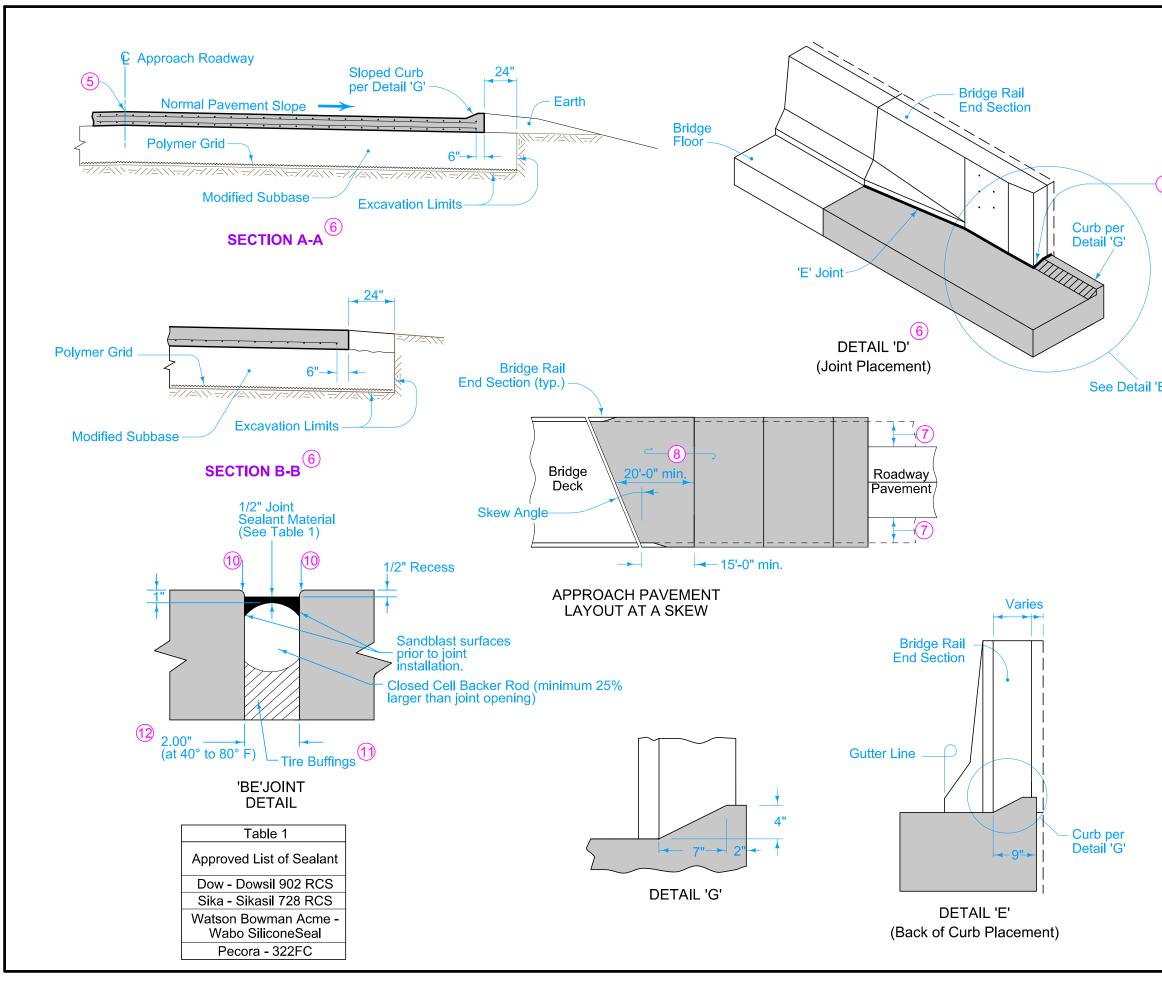
Possible Contract Items: Bridge Approach, Secondary Roads Standard or Slip-Form PCC Pavement Longitudinal Grooving in Concrete, Bridge Deck Longitudinal Grooving in Concrete, Pavement

Possible Tabulation: 112-6

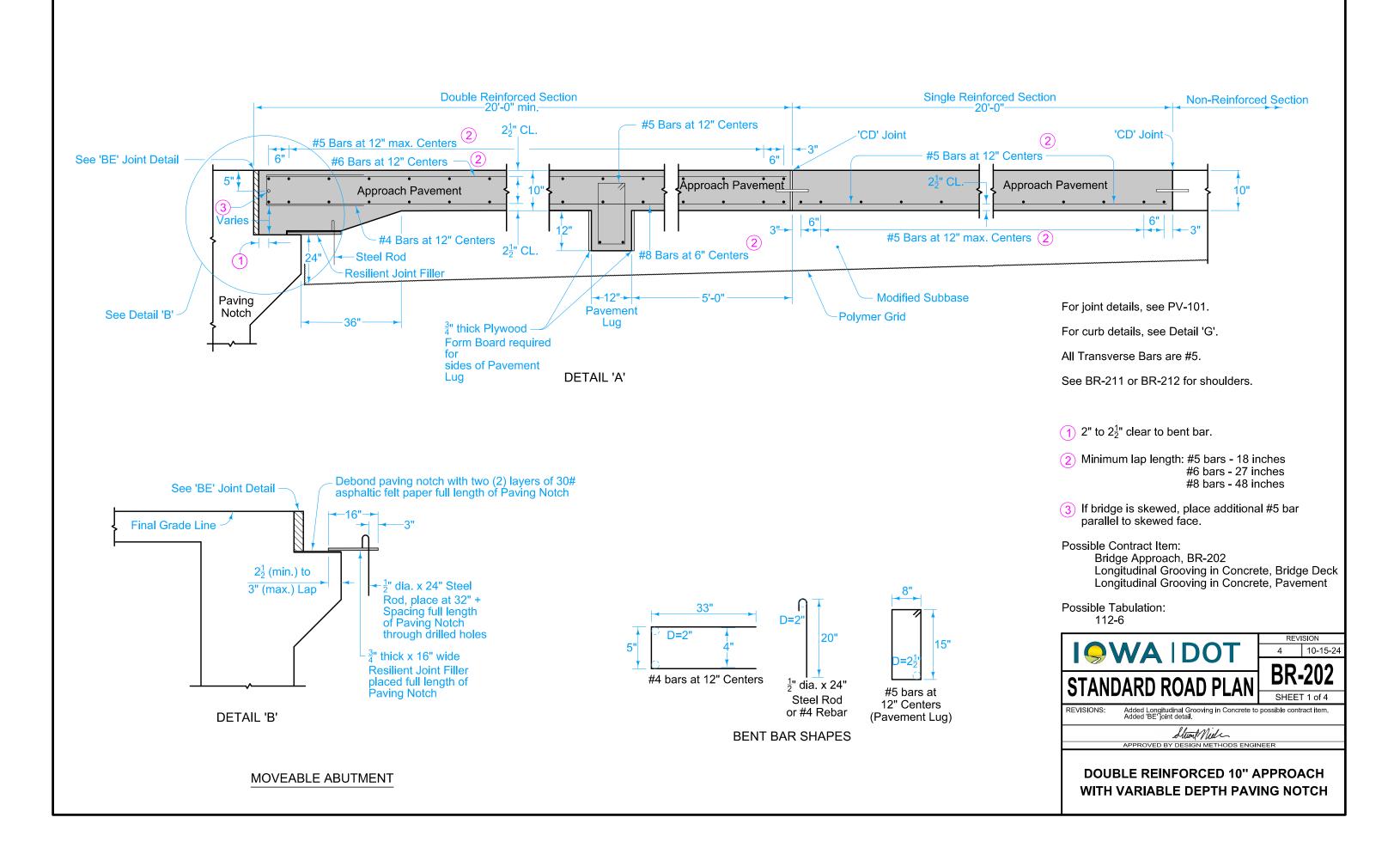


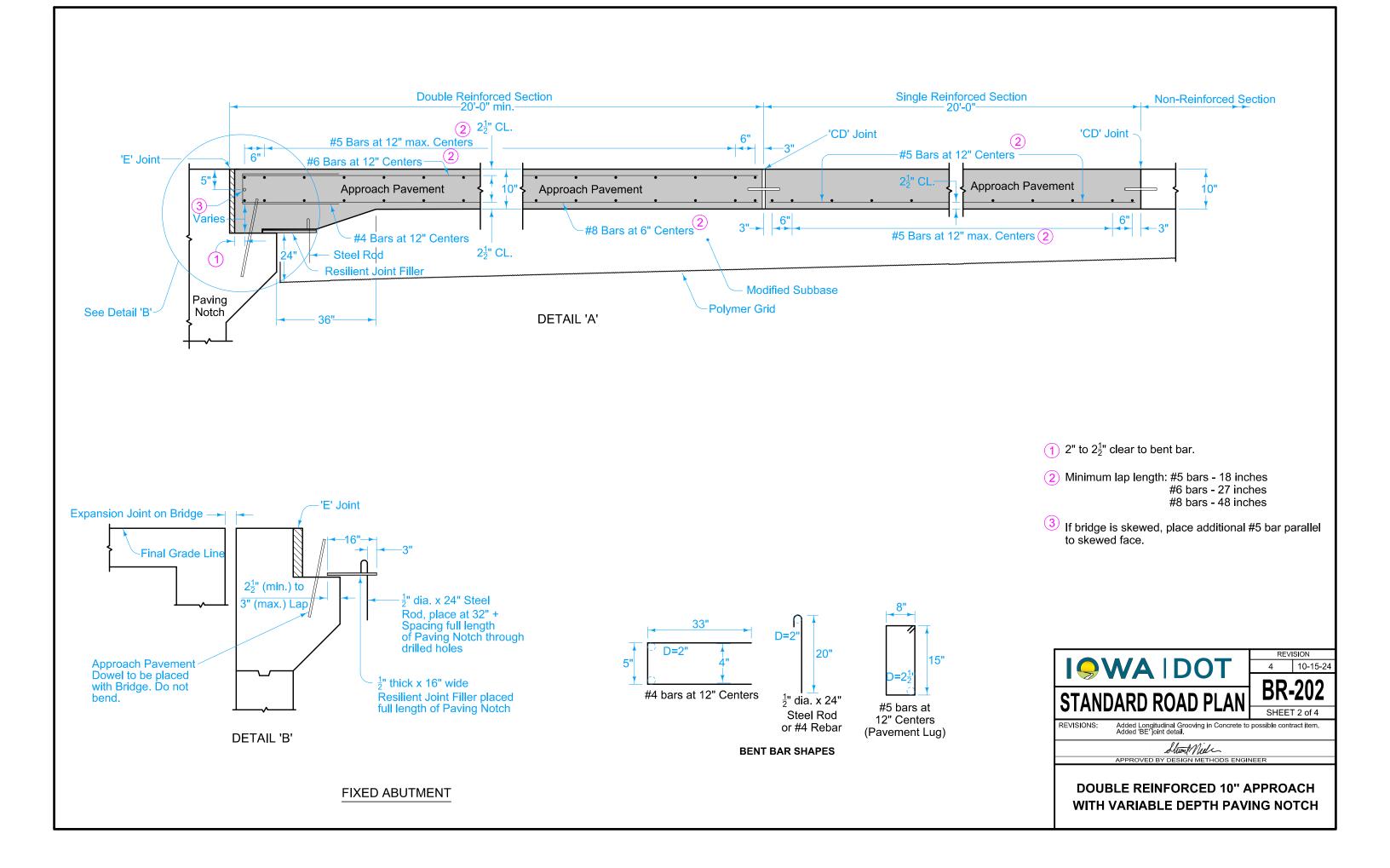


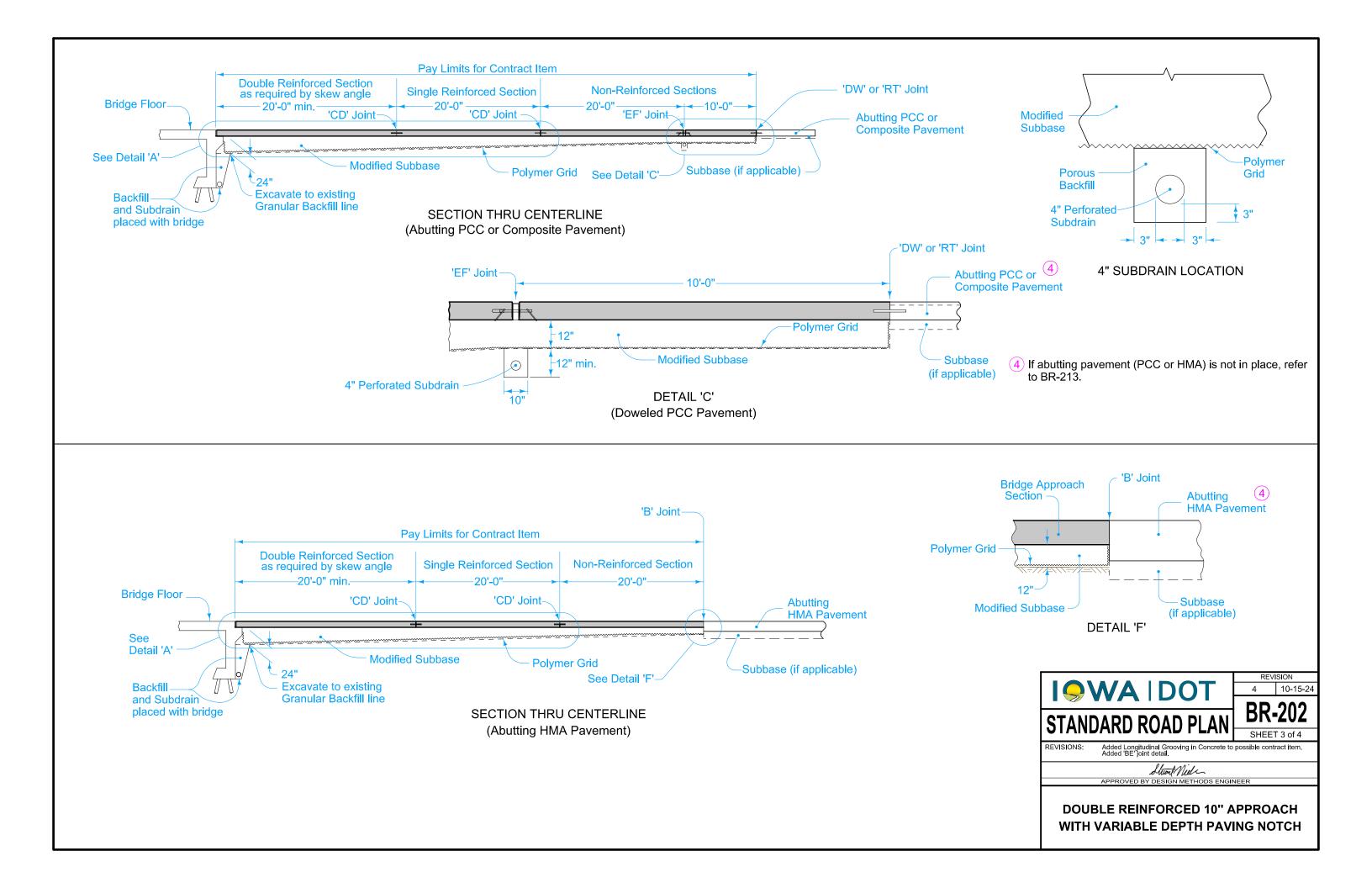


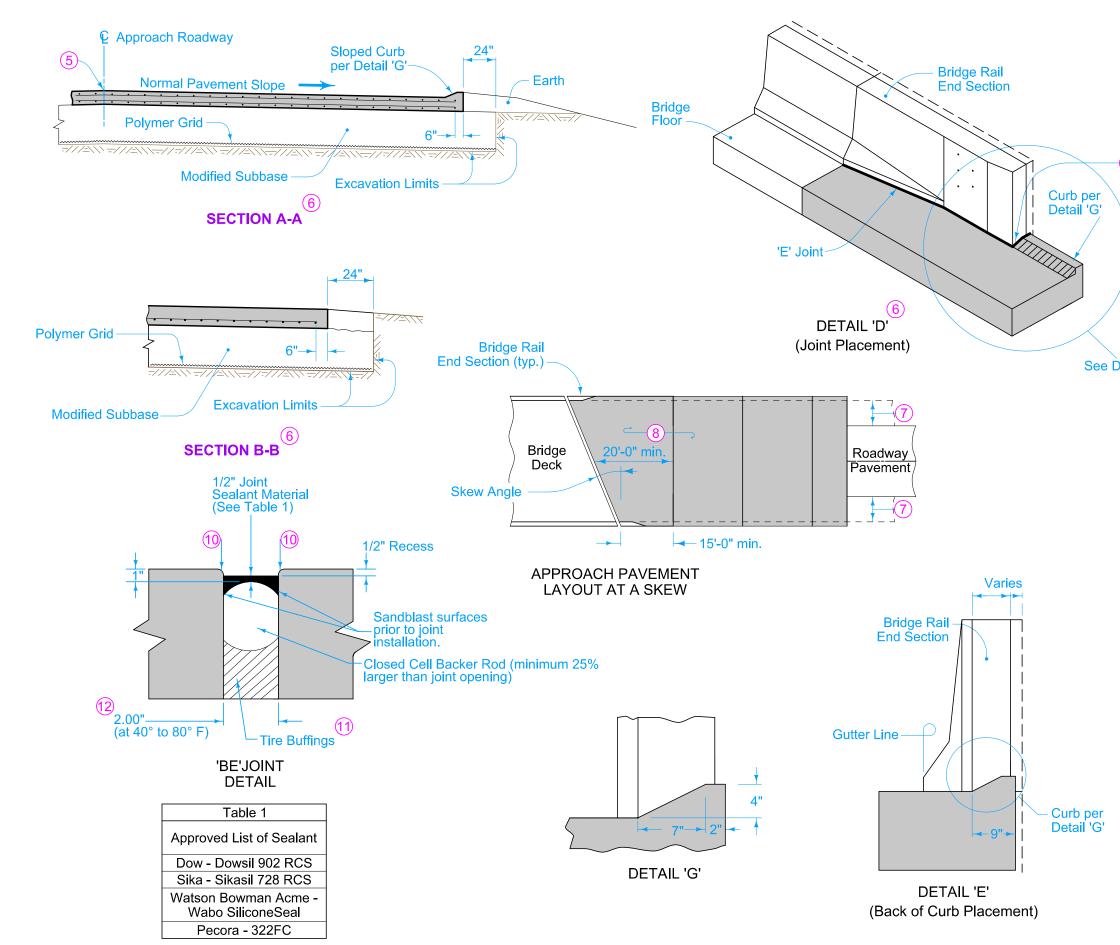


	ingle pour - Saw cut joint per E wo pours - Use 'KS-2' Joint.	Jelali D.
6 Refe	r to BR-211, BR-212, or BR-23	31.
7 Desi	gn shoulder width.	
8 Rein	forced bridge approach sectior	ו.
9 Joint	at end of Bridge Rail End Sec filler the full depth of the brid approachpavement. In areas place full depth of pavement shape material to fit the shap per Section B-B of PV-101. Detail F of PV-101.	ge s with curb, plus curb and be of the curb
-	- Fixed Abutment Bridges: Typ	be 'E' Joint.
-	<ul> <li>Moveable Abutment Bridges Expansion Joint Filler complete Section 4136 of the Standard Set width of gap to 2 inches. asrequired to completely fill f of curb to front face of bridge</li> </ul>	ying with d Specifications Joint length from back side
10 Edge	e with ¼ inch tool for length of j formededging not required w diamond blade saw.	
11 Com	pact tire buffings by spading w nose shovel. Tire buffings sh than ½ inch.	ith a square- all not be larger
12 Setti	ng Width Notes:	
	- Width is perpendicular to ab	utment.
	- Temperature of concrete de underside or shaded portion shall be between 40 to 80 de Farenheit when placing appr concrete.	of the deck grees
	-This 'BE' joint and the setting may be used for all concrete bridges up to 575' in length a girder bridges up to 400' in le	beam or slab and for all steel
	WAIDOT	REVISION 4 10-15-24
		BR-201
STAN	IDARD ROAD PLAN	SHEET 3 of 3
REVISIONS:	Added Longitudinal Grooving in Concrete to Added 'BE' joint detail.	possible contract item.



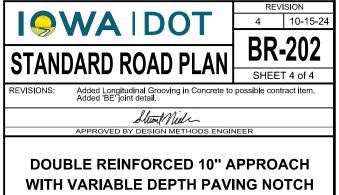




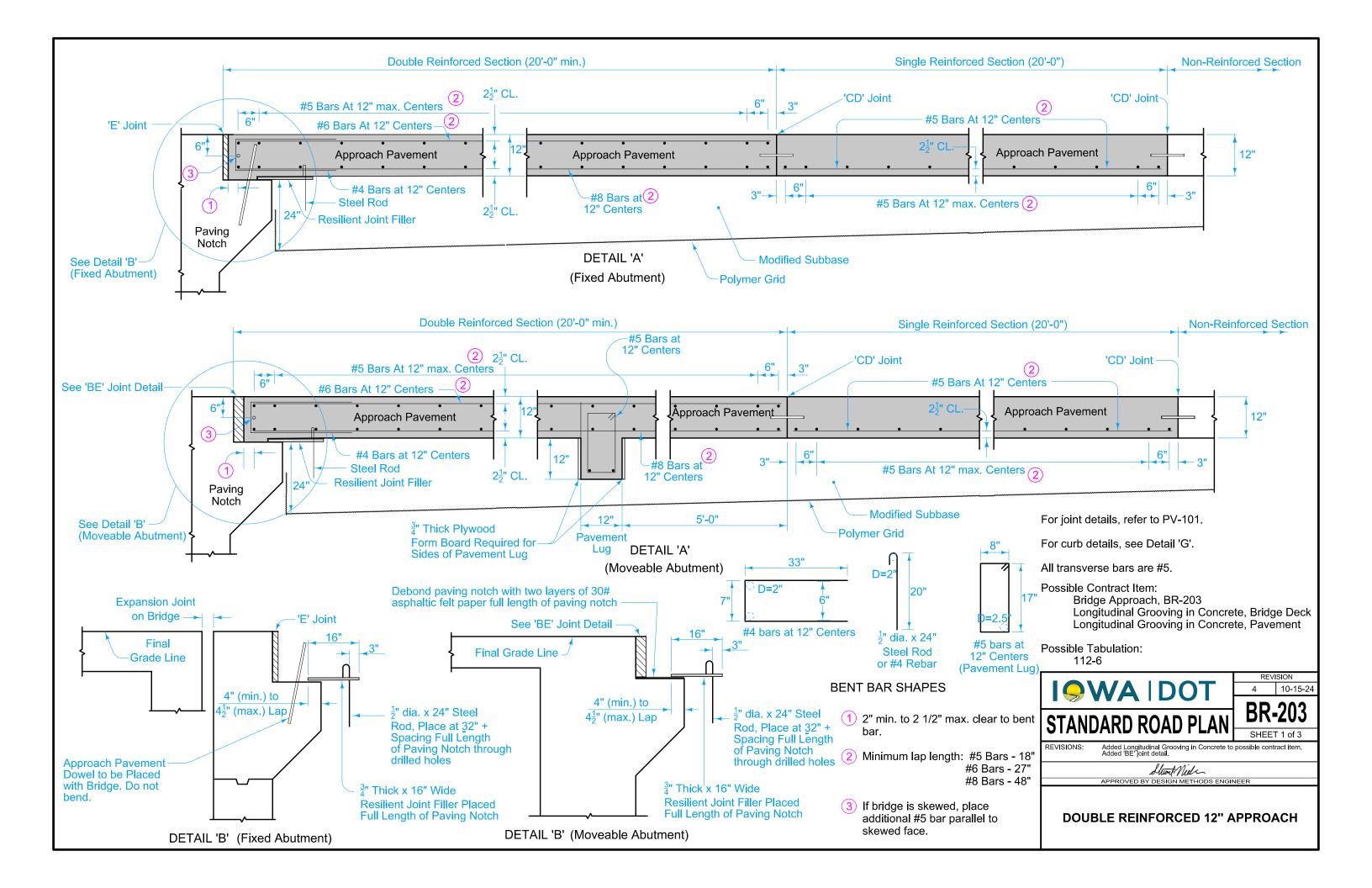


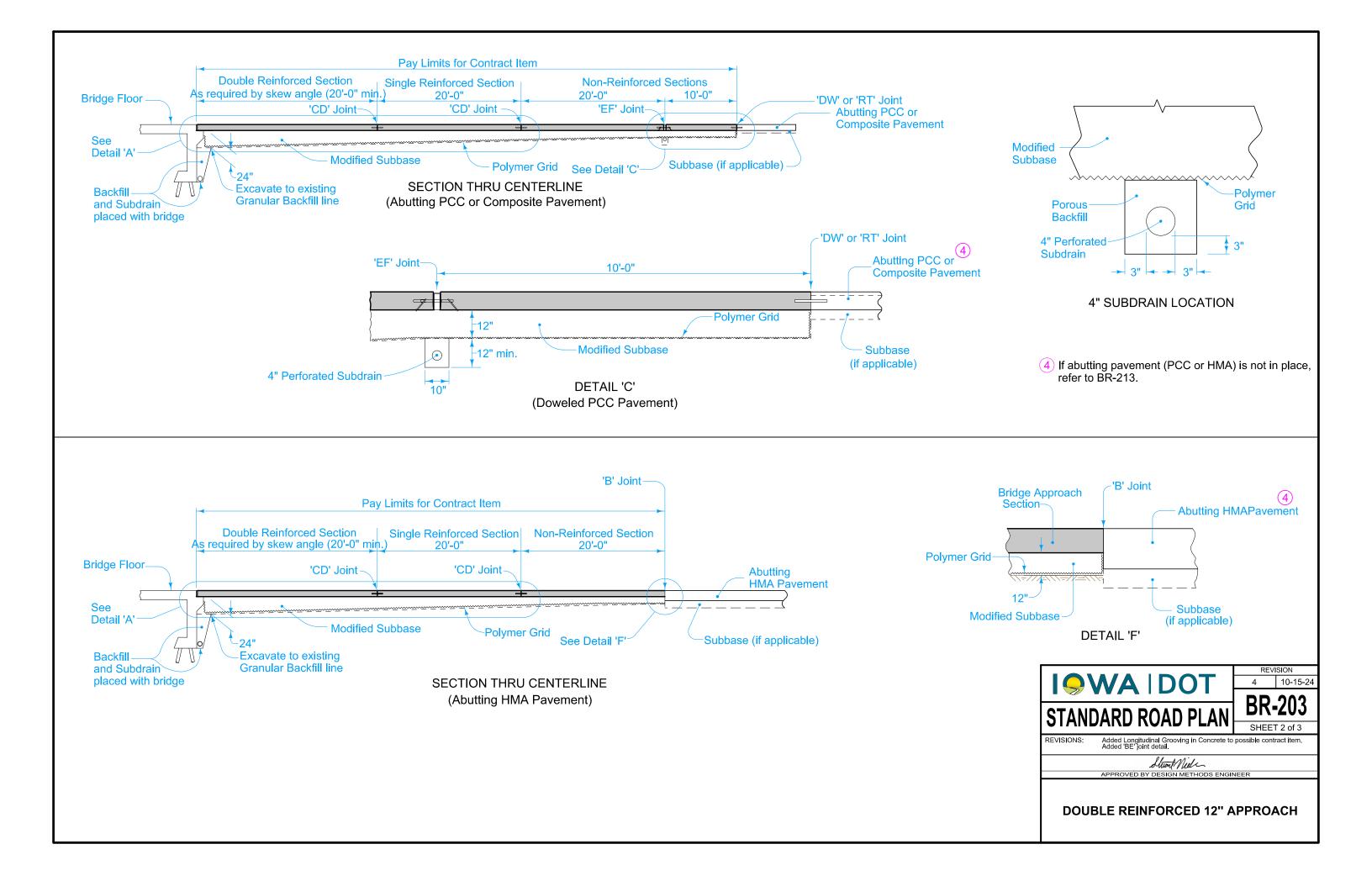
5 Longitudinal Joint (PV-101):	
Single pour - Saw cut joint per D	etail B.
Two pours - Use 'KS-2' Joint.	

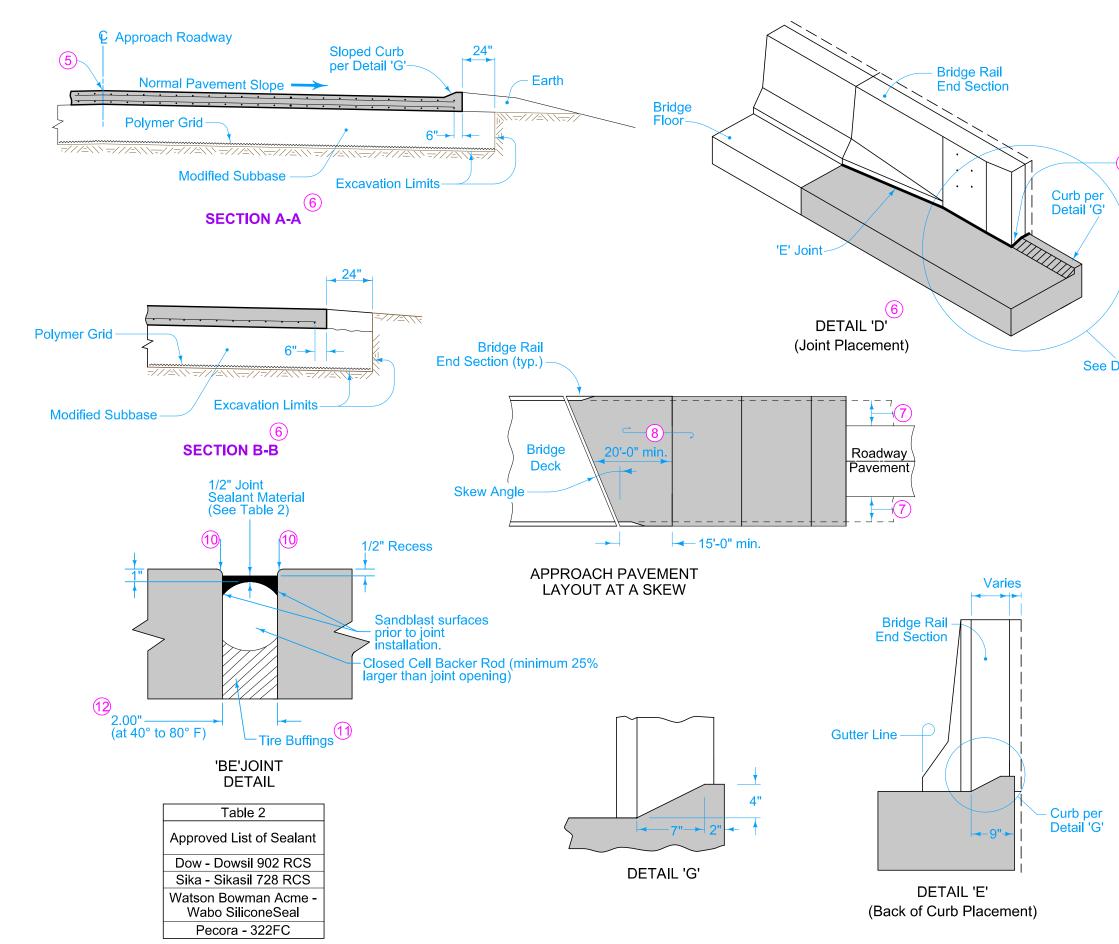
- 6 Refer to BR-211, BR-212, or BR-231.
- 7 Design shoulder width.
- 8 Reinforced bridge approach section.
- (9) Joint at end of Bridge Rail End Section: Place joint filler the full depth of the bridge approach pavement. In areas with curb, place full depth of pavement plus curb and shape material to fit the shape of the curb per Section B-B of PV-101. Seal joint per Detail F of PV-101.
  - Fixed Abutment Bridges: Type 'E' Joint.
  - Moveable Abutment Bridges: Flexible Foam Expansion Joint Filler complying with Section 4136 of the Standard Specifications.
  - Set width of gap to 2 inches. Joint length as required to completely fill from back side of curb to front face of bridge wing.
- (10) Edge with ¼ inch tool for length of joint indicated if formed edging not required when cut with diamond blade saw.
- (1) Compact tire buffings by spading with a squarenose shovel. Tire buffings shall not be larger than  $\frac{1}{2}$  inch.
- (12) Setting Width Notes:
  - Width is perpendicular to abutment.
  - Temperature of concrete deck on the underside or shaded portion of the deck shall be between 40 to 80 degrees Farenheit when placing approach slab concrete.
  - -This 'BE' joint and the setting temperatures may be used for all concrete beam or slab bridges up to 575' in length and for all steel girder bridges up to 400' in length.



See Detail 'E'



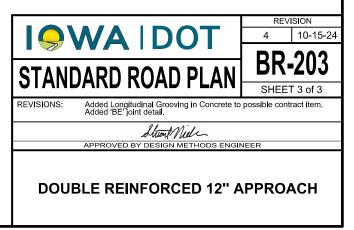




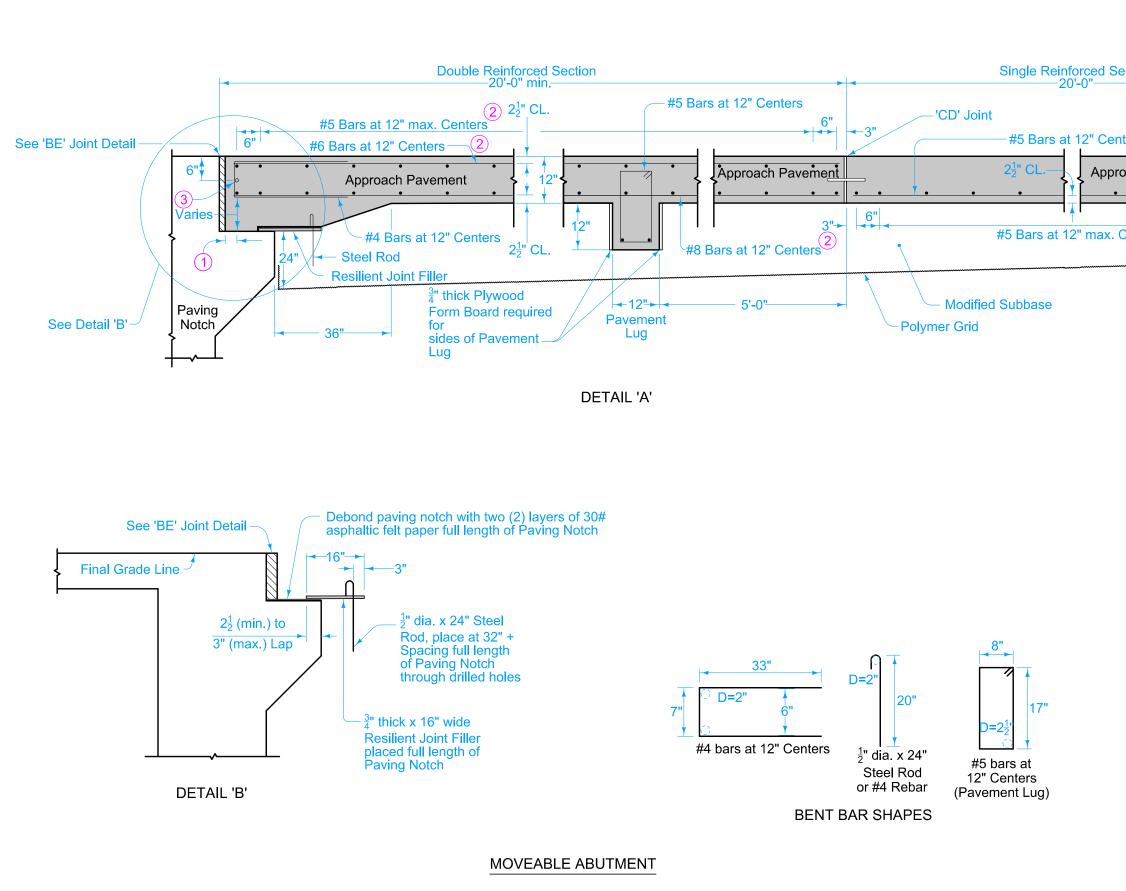
- 5 Longitudinal Joint (PV-101): Single pour - Saw cut joint per Detail B. Two pours - Use 'KS-2' Joint.
- 6 Refer to BR-211, BR-212, or BR-231.
- 7 Design shoulder width.
- (8) Reinforced bridge approach section.
- (9) Joint at end of Bridge Rail End Section: Place joint filler the full depth of the bridge approach pavement. In areas with curb, place full depth of pavement plus curb and shape material to fit the shape of the curb per Section B-B of PV-101. Seal joint per Detail F of PV-101.
  - Fixed Abutment Bridges: Type 'E' Joint.
  - Moveable Abutment Bridges: Flexible Foam Expansion Joint Filler complying with Section 4136 of the Standard Specifications. Set width of gap to 2 inches. Joint length as required to completely fill from back side of curb to front face of bridge wing.
- (10) Edge with ¼ inch tool for length of joint indicated if formed edging not required when cut with diamond blade saw.
- (1) Compact tire buffings by spading with a squarenose shovel. Tire buffings shall not be larger than ½ inch.

12 Setting Width Notes:

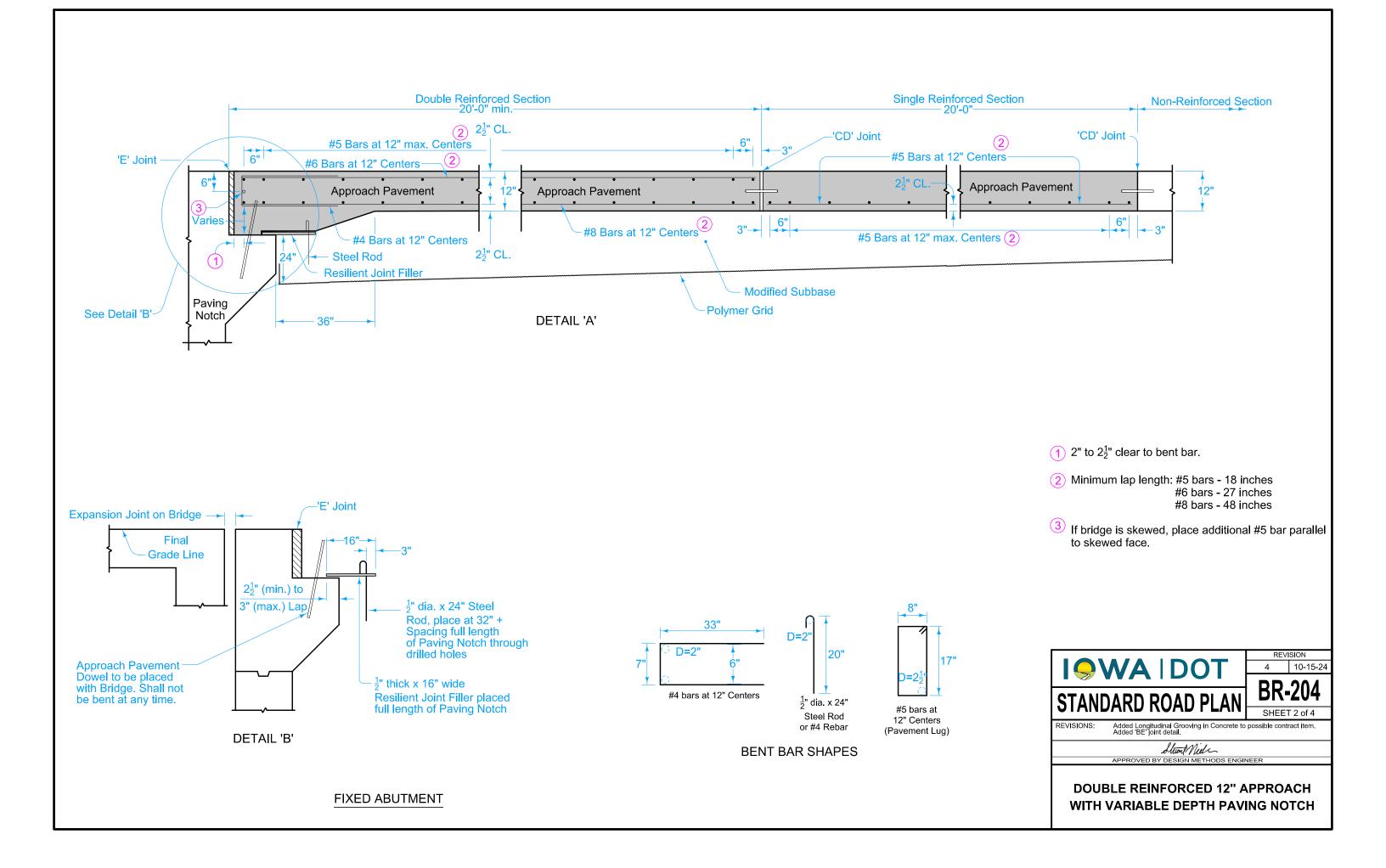
- Width is perpendicular to abutment.
- Temperature of concrete deck on the underside or shaded portion of the deck shall be between 40 to 80 degrees Farenheit when placing approach slab concrete.
- -This 'BE' joint and the setting temperatures may be used for all concrete beam or slab bridges up to 575' in length and for all steel girder bridges up to 400' in length.

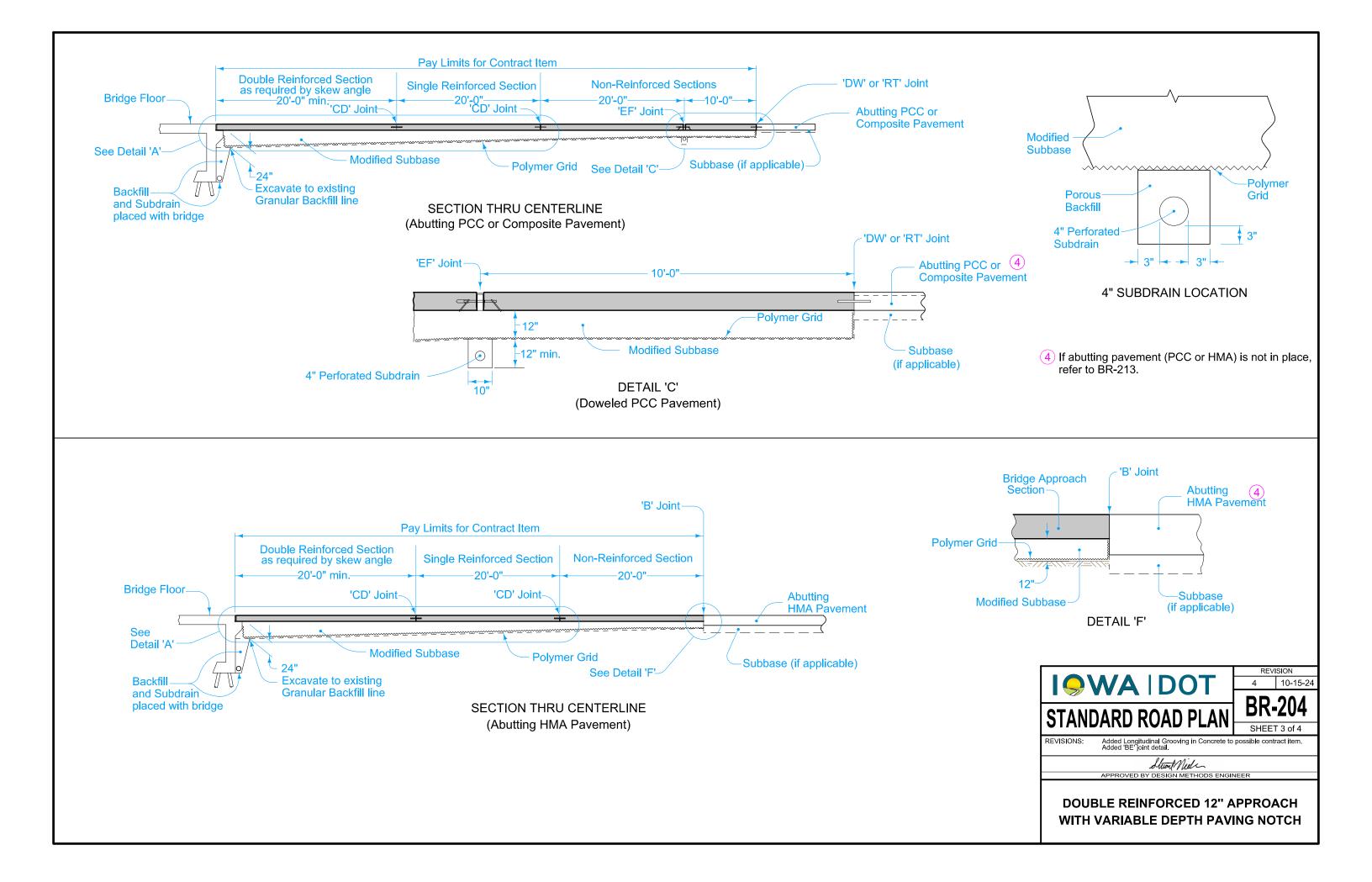


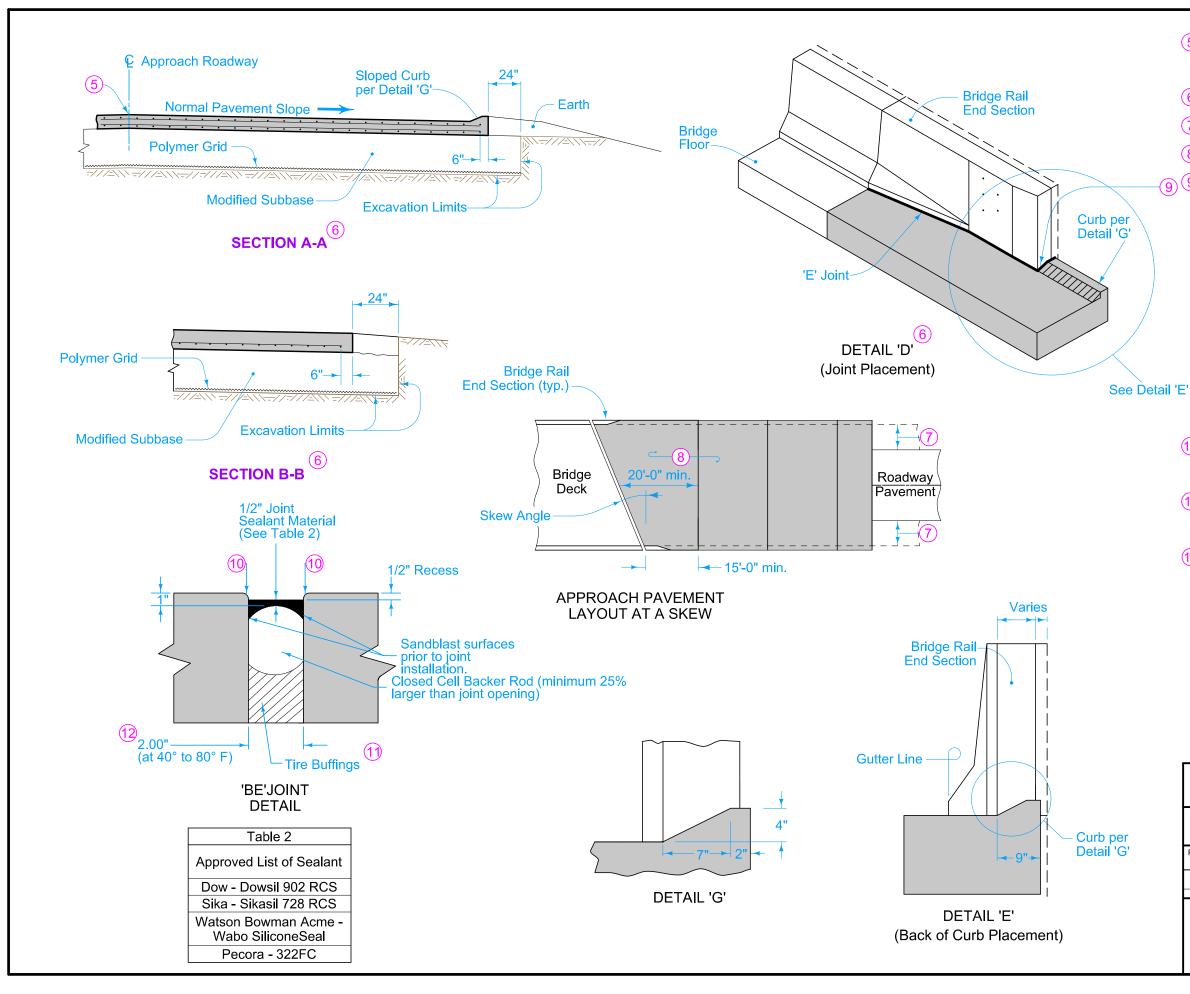
See Detail 'E'



ection	Non-Reinforced Section
(2) ters	
pach Pavement	⊐ \$ 12"
6"	-3"
Centers 2	
	1
For joint details, see PV	-101.
For curb details, see De	tail 'G'.
All Transverse Bars are	#5.
See BR-211 or BR-212	for shoulders.
1 2" to $2\frac{1}{2}$ " clear to ber	nt bar.
2 Minimum lap length:	#5 bars - 18 inches #6 bars - 27 inches #8 bars - 48 inches
If bridge is skewed, to skewed face.	place additional #5 bar parallel
	BR-204 oving in Concrete, Bridge Deck oving in Concrete, Pavement
Possible Tabulation: 112-6	
STANDARD RO	AD PLAN BR-204
REVISIONS: Added Longitudinal Added 'BE' joint def	Grooving in Concrete to possible contract item. ail.
	TIM Mills SIGN METHODS ENGINEER
	DRCED 12" APPROACH DEPTH PAVING NOTCH



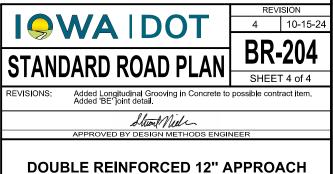




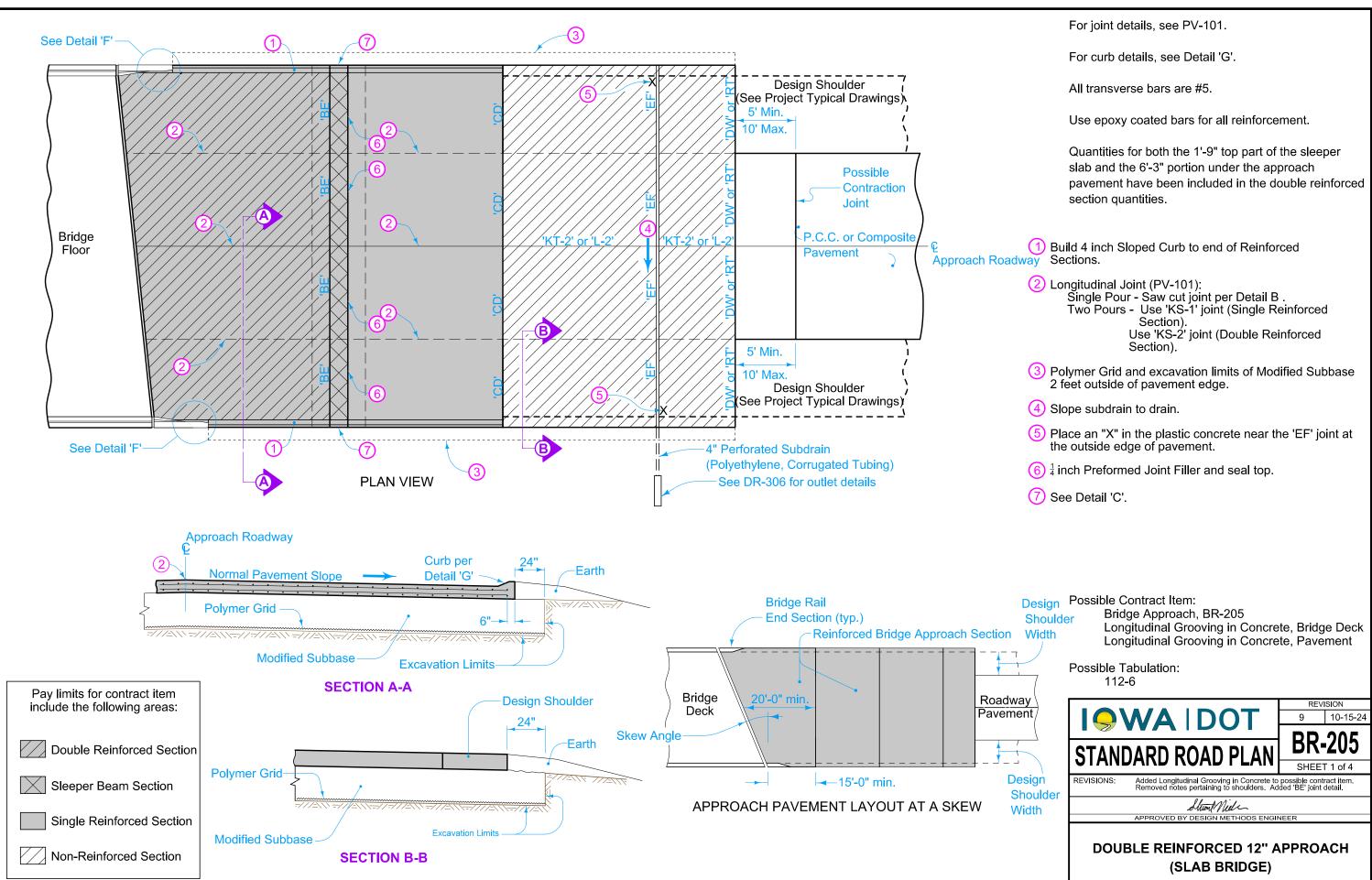
- 5 Longitudinal Joint (PV-101): Single pour - Saw cut joint per Detail B. Two pours - Use 'KS-2' Joint.
- 6 Refer to BR-211, BR-212, or BR-231.
- 7 Design shoulder width.
- (8) Reinforced bridge approach section.
- 9 Joint at end of Bridge Rail End Section: Place joint filler the full depth of the bridge approach pavement. In areas with curb, place full depth of pavement plus curb and shape material to fit the shape of the curb per Section B-B of PV-101. Seal joint per Detail F of PV-101.
  - Fixed Abutment Bridges: Type 'E' Joint.
  - Moveable Abutment Bridges: Flexible Foam Expansion Joint Filler complying with Section 4136 of the Standard Specifications. Set width of gap to 2 inches. Joint length as required to completely fill from back side of curb to front face of bridge wing.
- (10) Edge with ¼ inch tool for length of joint indicated if formed edging not required when cut with diamond blade saw.
- (1) Compact tire buffings by spading with a squarenose shovel. Tire buffings shall not be larger than ½ inch.
- (12) Setting Width Notes:
  - Width is perpendicular to abutment.

- Temperature of concrete deck on the underside or shaded portion of the deck shall be between 40 to 80 degrees Farenheit when placing approach slab concrete.

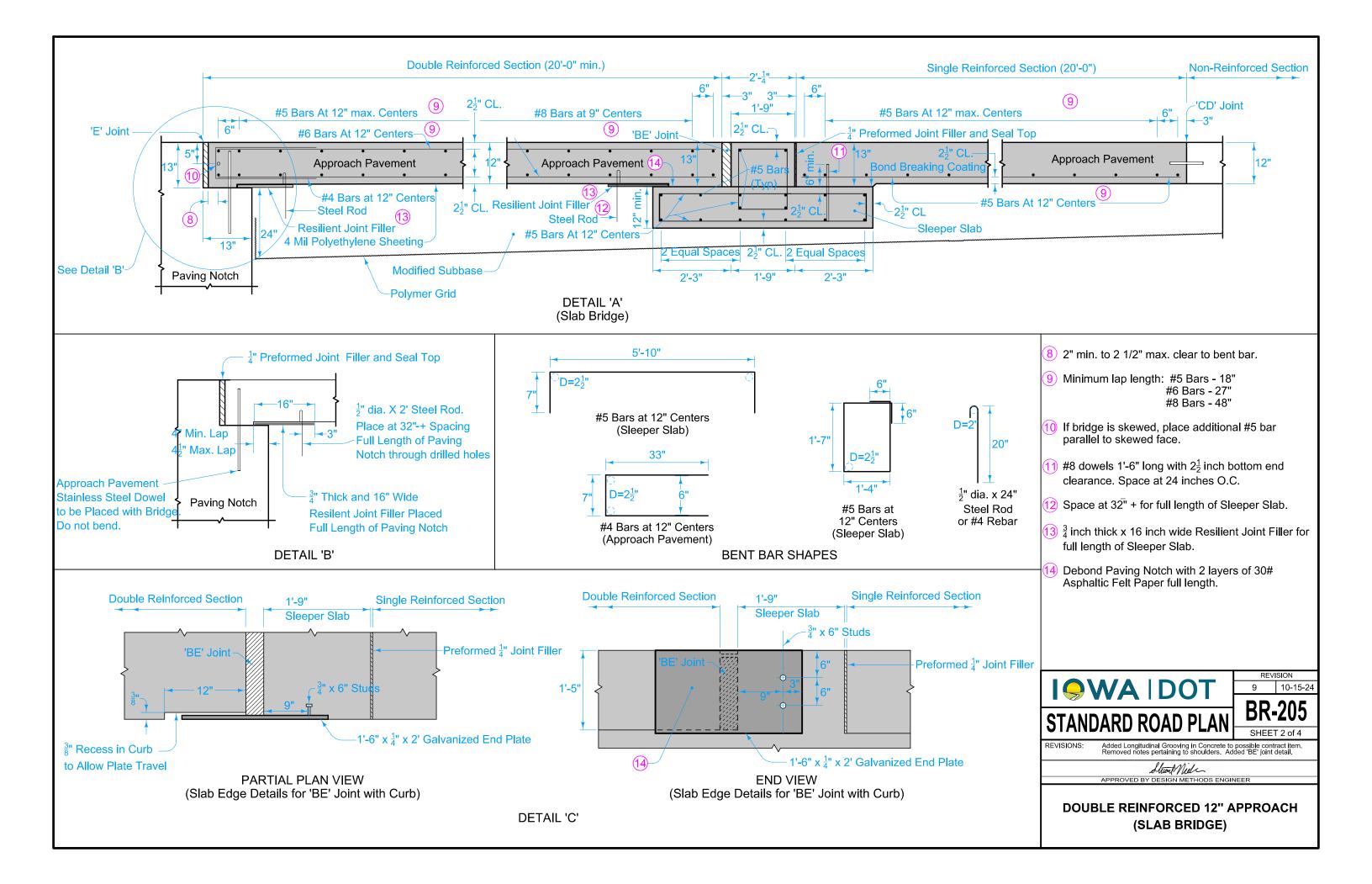
-This 'BE' joint and the setting temperatures may be used for all concrete beam or slab bridges up to 575' in length and for all steel girder bridges up to 400' in length.

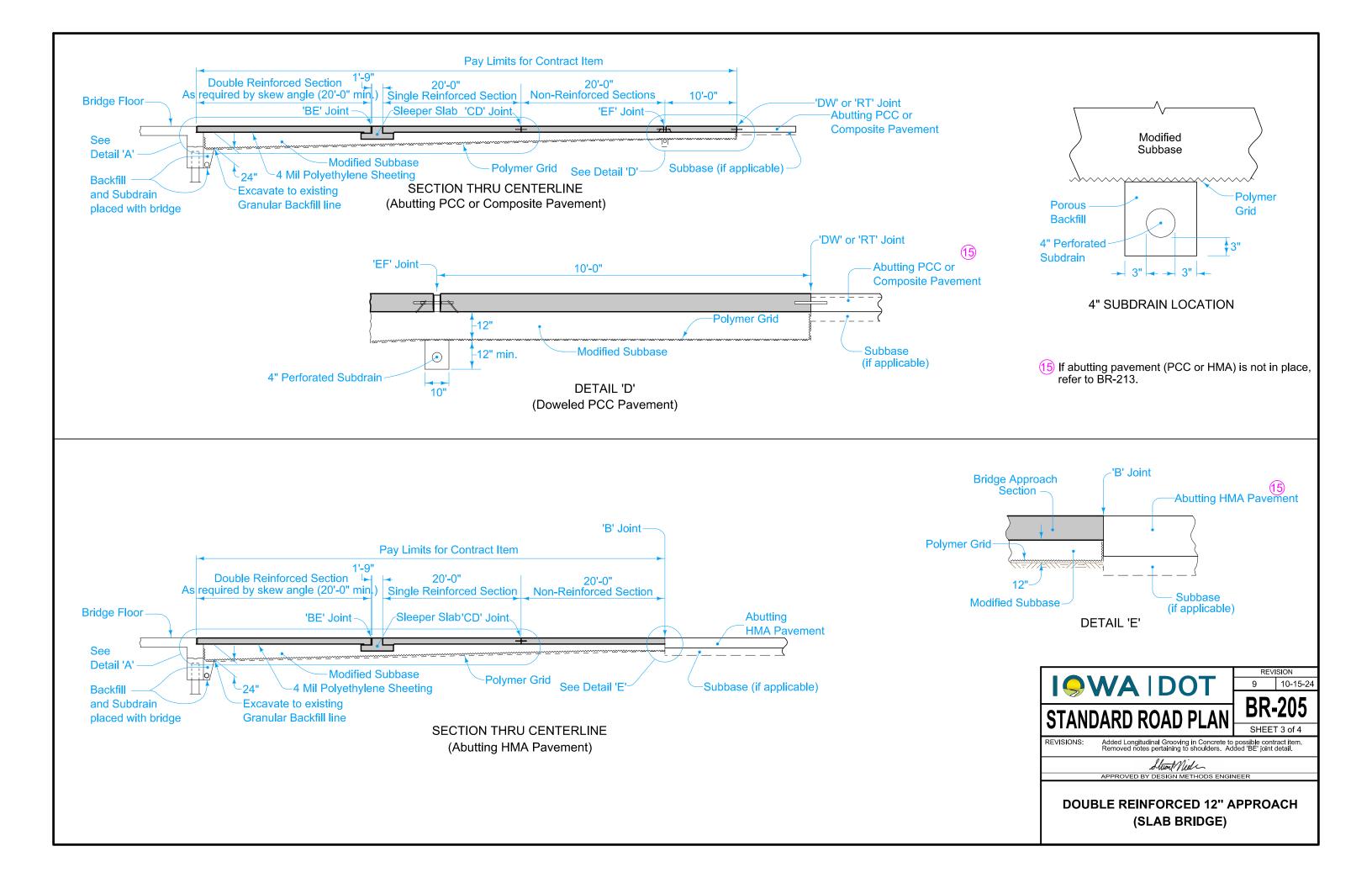


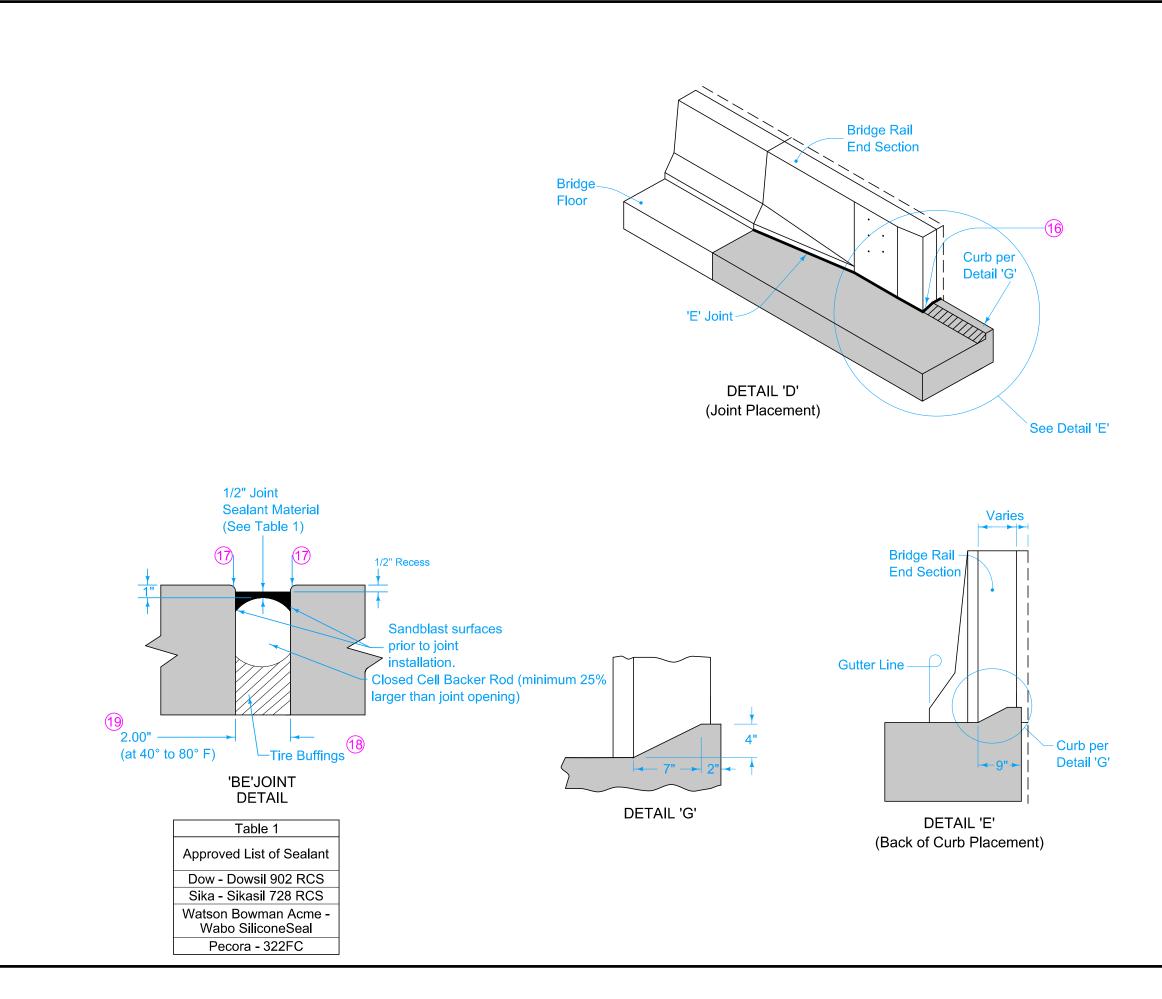
WITH VARIABLE DEPTH PAVING NOTCH



### **DESIGNER INFORMATION**



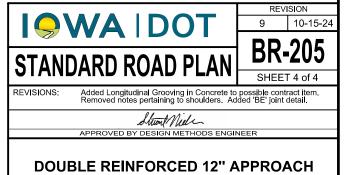




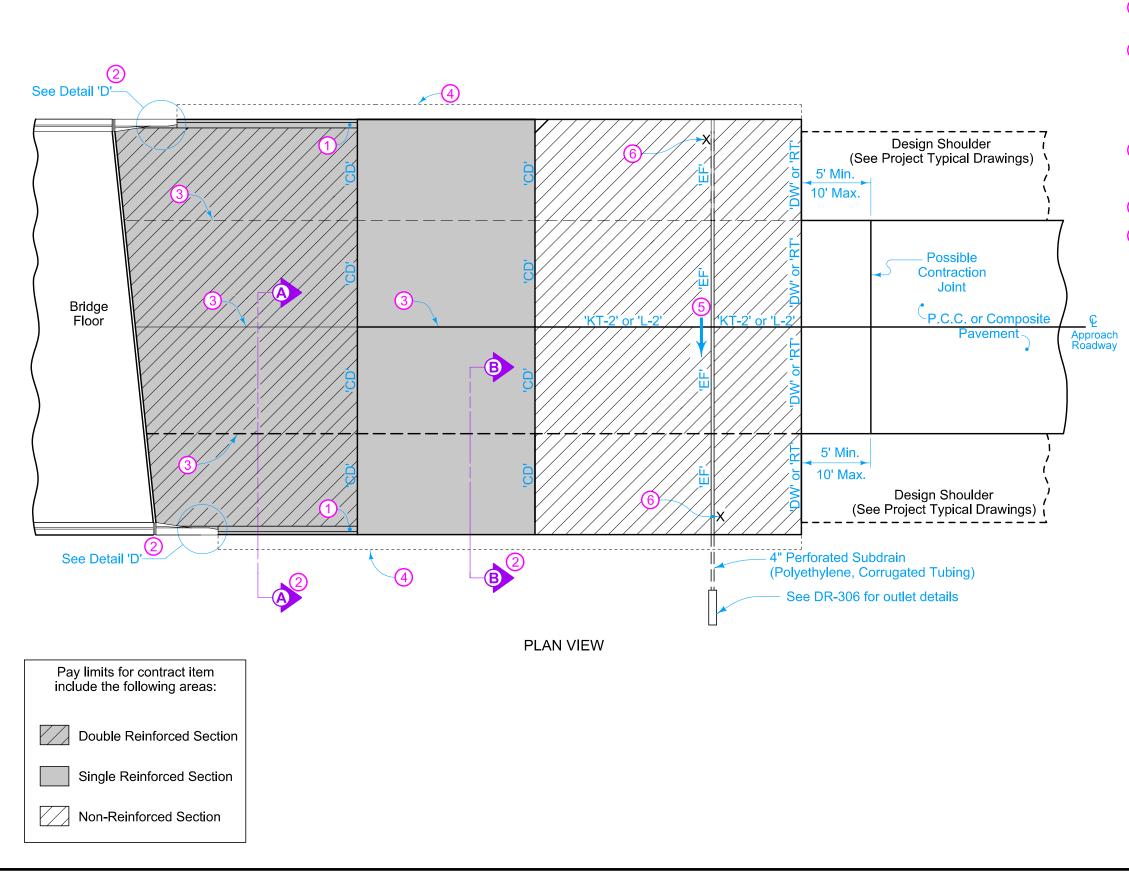


<sup>1</sup> Joint at end of Bridge Rail End Section: Place joint filler the full depth of the bridge approach pavement. In areas with curb, place full depth of pavement plus curb and shape material to fit the shape of the curb per Section B-B of PV-101. Seal joint per Detail F of PV-101.

- Fixed Abutment Bridges: Type 'E' Joint.
- Moveable Abutment Bridges: Flexible Foam Expansion Joint Filler complying with Section 4136 of the Standard Specifications. Set width of gap to 2 inches. Joint length as required to completely fill from back side of curb to front face of bridge wing.
- (17) Edge with ¼ inch tool for length of joint indicated if formed edging not required when cut with diamond blade saw.
- (18) Compact tire buffings by spading with a square-nose shovel. Tire buffings shall not be larger than 1/2 inch.
- (19) Setting Width Notes:
  - Width is perpendicular to abutment.



(SLAB BRIDGE)



- 1 Build 4 inch Sloped Curb to end of Double Reinforced Section. Refer to PV-102 for curb and runout details.
- (2) See BR-201, BR-202, BR-203, or BR-204.
- (3) Longitudinal Joint (PV-101): Single Pour - Saw cut joint per Detail B . Two Pours - Use 'KS-1' joint (Single Reinforced Section). Use 'KS-2' joint (Double Reinforced Section)
- 4 Polymer Grid and excavation limits of Modified Subbase 2 feet outside of pavement edge. See BR-201, BR-202, BR-203, or BR-204.
- 5 Slope subdrain to drain.
- 6 Place an "X" in the plastic concrete near the 'EF' joint at the outside edge of pavement.



REVISIONS: Revised curb note.

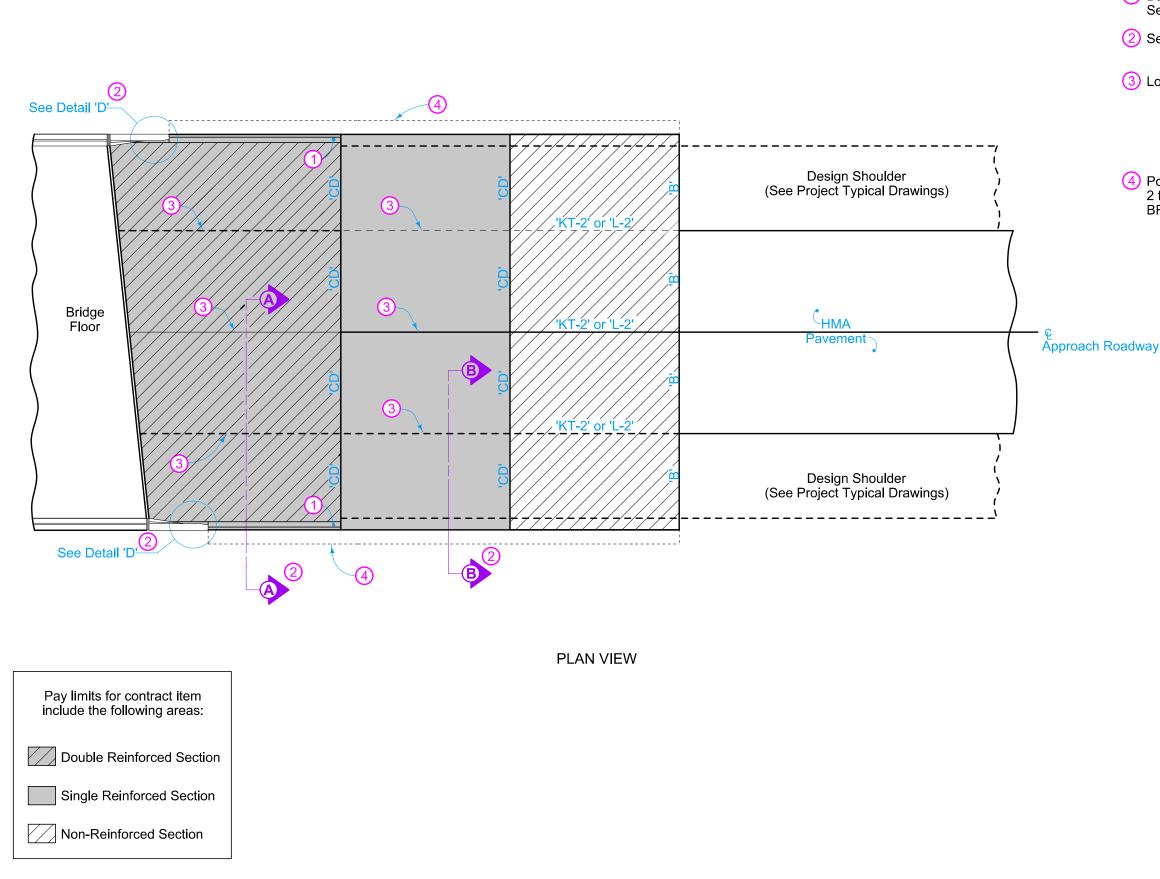


REVISION

SHEET 1 of 1

3 10-18-22

**BRIDGE APPROACH** (ABUTTING PCC OR **COMPOSITE PAVEMENT)** 



- 1 Build 4 inch Sloped Curb to end of Double Reinforced Section. Refer to PV-102 for curb and runout details.
- (2) See BR-201, BR-202, BR-203, or BR-204.
- 3 Longitudinal Joint (PV-101): Single Pour Saw cut joint per Detail B . Two Pours Use 'KS-1' joint (Single Reinforced Section). Use 'KS-2' joint (Double Reinforced Section).
- 4 Polymer Grid and excavation limits of Modified Subbase 2 feet outside of pavement edge. See BR-201, BR-202, BR-203, or BR-204.





Removed note pertaining to shoulder.



REVISION

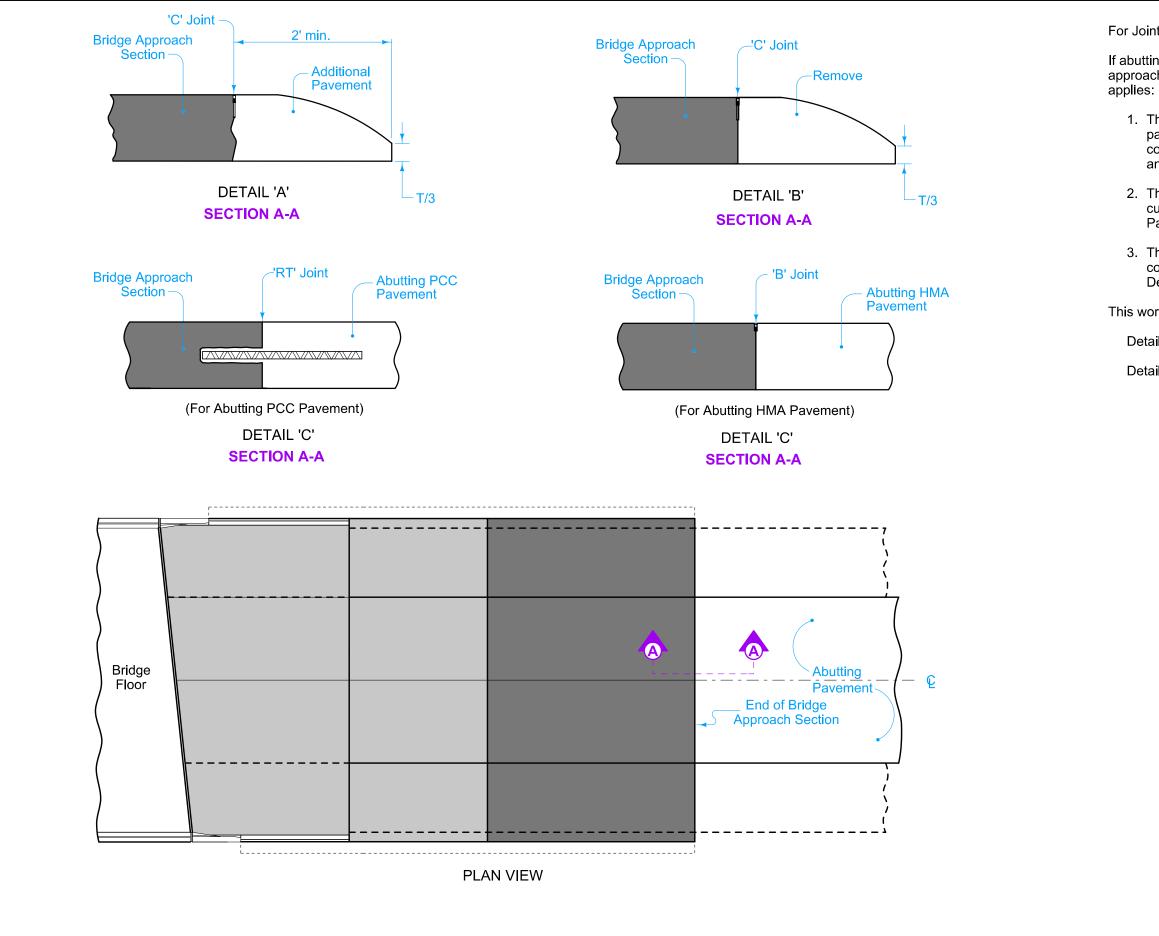
**BR-212** 

SHEET 1 of 1

3 10-15-24

**BRIDGE APPROACH** 

(ABUTTING HMA PAVEMENT)



For Jointing Details, see PV-101.

If abutting pavement (PCC or HMA) is not in place when bridge approach pavement is constructed, the following procedure applies:

- 1. The paving contractor of bridge the approach pavement paves Additional Pavement (as shown in Detail 'A'), constructs 'C' joint at end of bridge approach section, and leaves in this state.
- 2. The paving contractor of the abutting pavement saw cuts full depth at 'C' joint and removes Addtional Pavement (see Detail 'B'), then
- 3. The paving contractor of the abutting pavement constructs 'RT' joint or 'B' joint, accordingly (see Detail 'C').

This work is incidental to other work as follows:

Detail 'A': Bridge Approach, BR-203.

Details 'B' and 'C': Standard or Slip Form PCC Pavement, or Hot Mix Asphalt Mixture.

Reinforced Section	
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Non-Reinforced Section



REVISIONS:

Added shoulders to single and non-reinforced sections.

REVISION

**BR-213** 

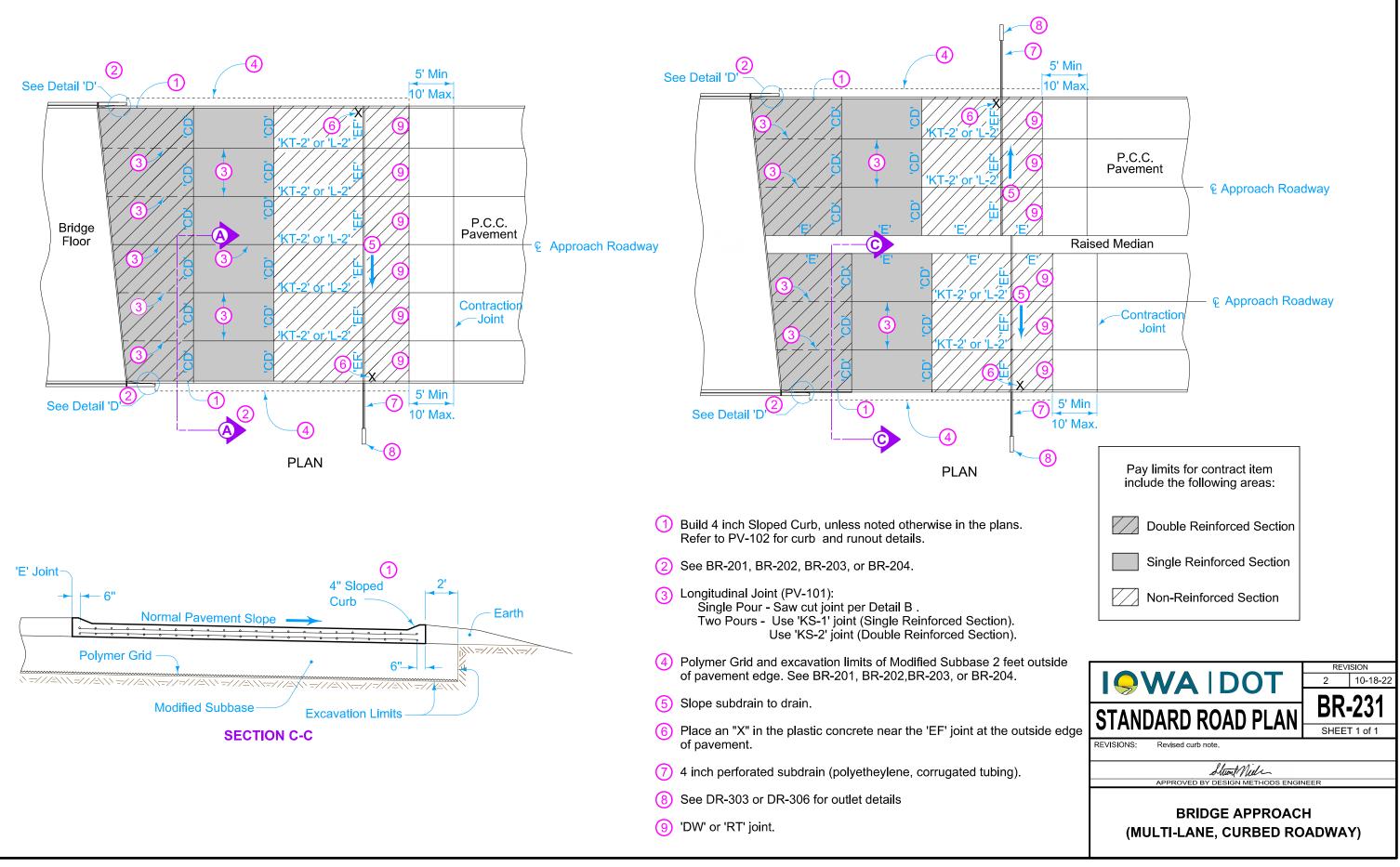
SHEET 1 of 1

1 | 10-19-21

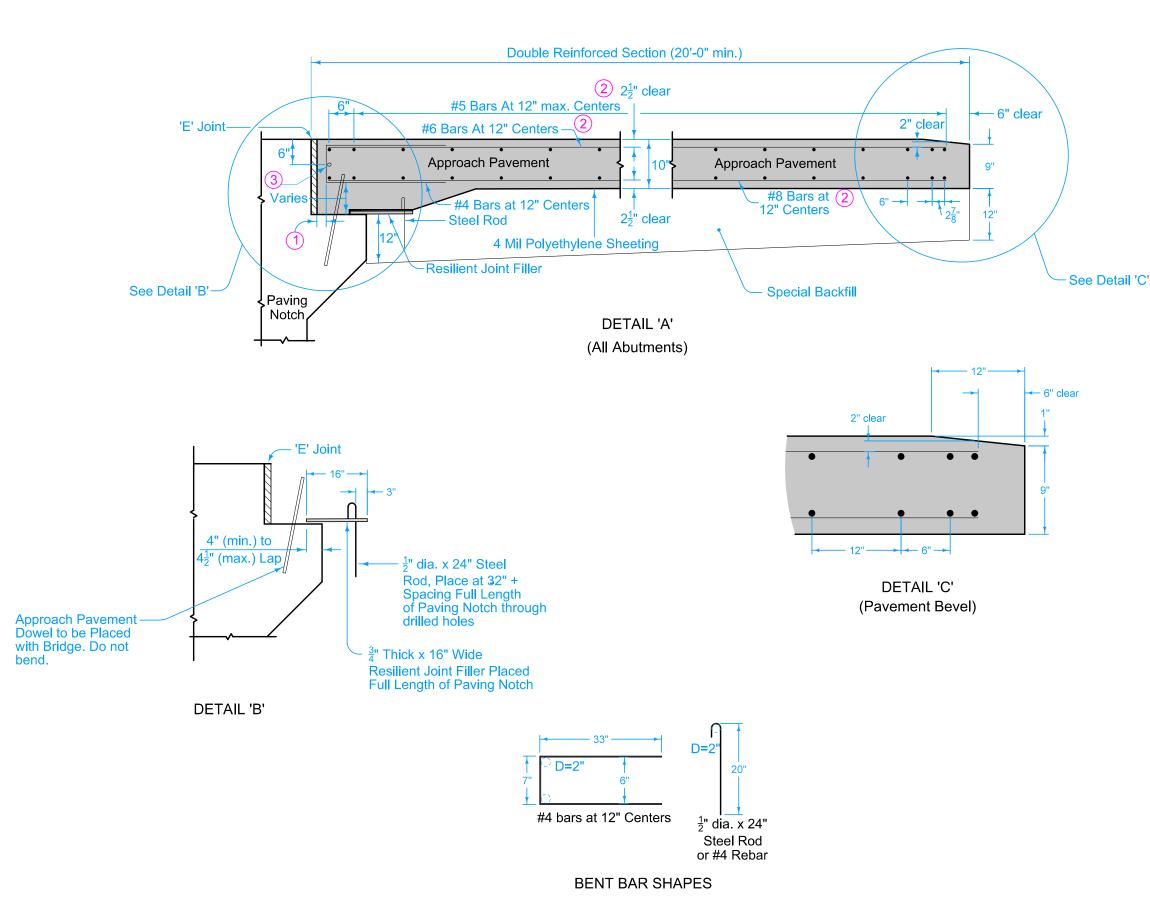


BRIDGE APPROACH

(ABUTTING PAVEMENT)







### **DESIGNER INFORMATION**

For joint details, refer to PV-101.

For curb details, see Detail 'F'.

All transverse bars are #5.

1 2" min. to 2 1/2" max. clear to bent bar.

(2) Minimum lap length: #5 Bars - 38" #6 Bars - 45" #8 Bars - 59"

(3) If bridge is skewed, place additional #5 bar parallel to skewed face.

Possible Contract Item: Bridge Approach, BR-241 Longitudinal Grooving in Concrete, Bridge Deck Longitudinal Grooving in Concrete, Pavement

Possible Tabulation: 112-6



REVISIONS:

Added Longitudinal Grooving in Concrete to possible contract item.

REVISION

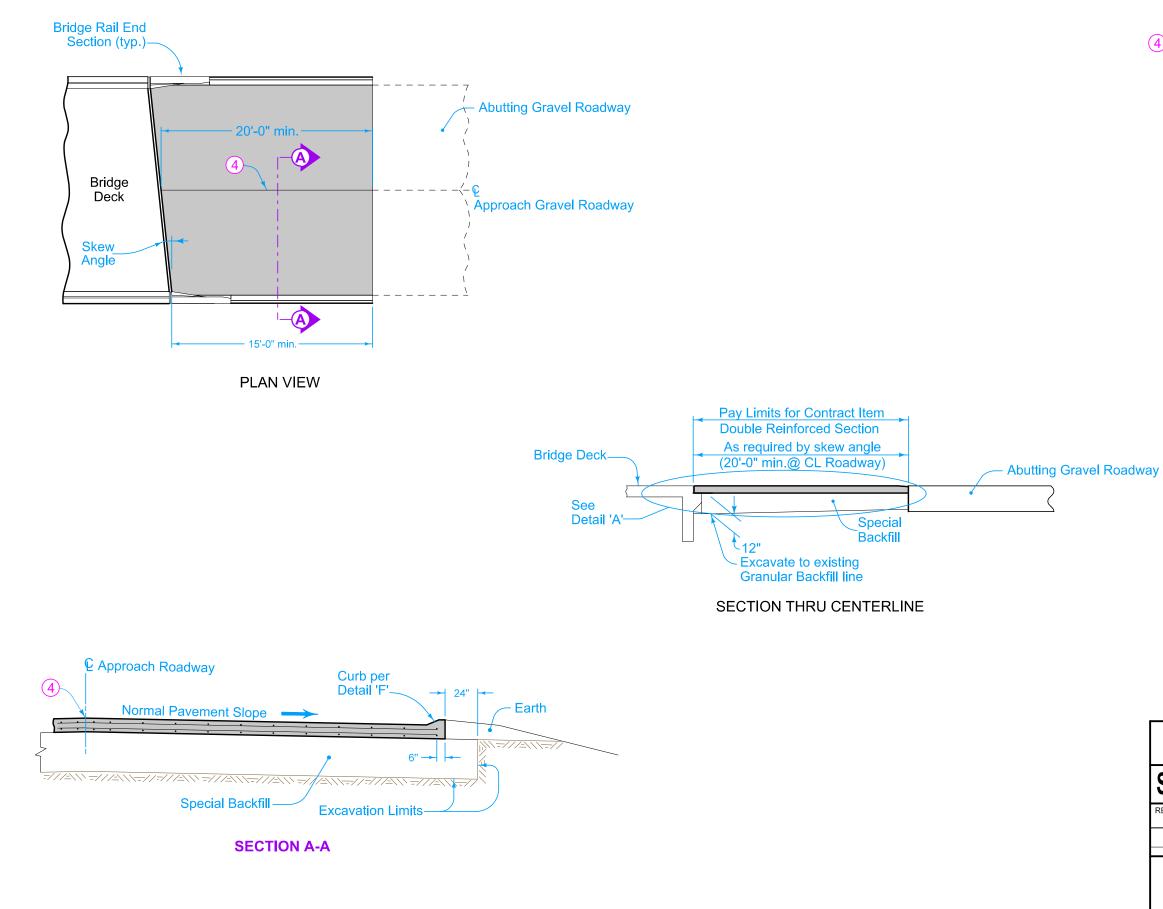
**BR-24** 

SHEET 1 of 3

2 10-15-24

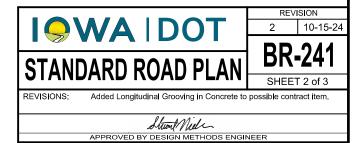


**DOUBLE REINFORCED 10" APPROACH ON GRAVEL ROADS** 

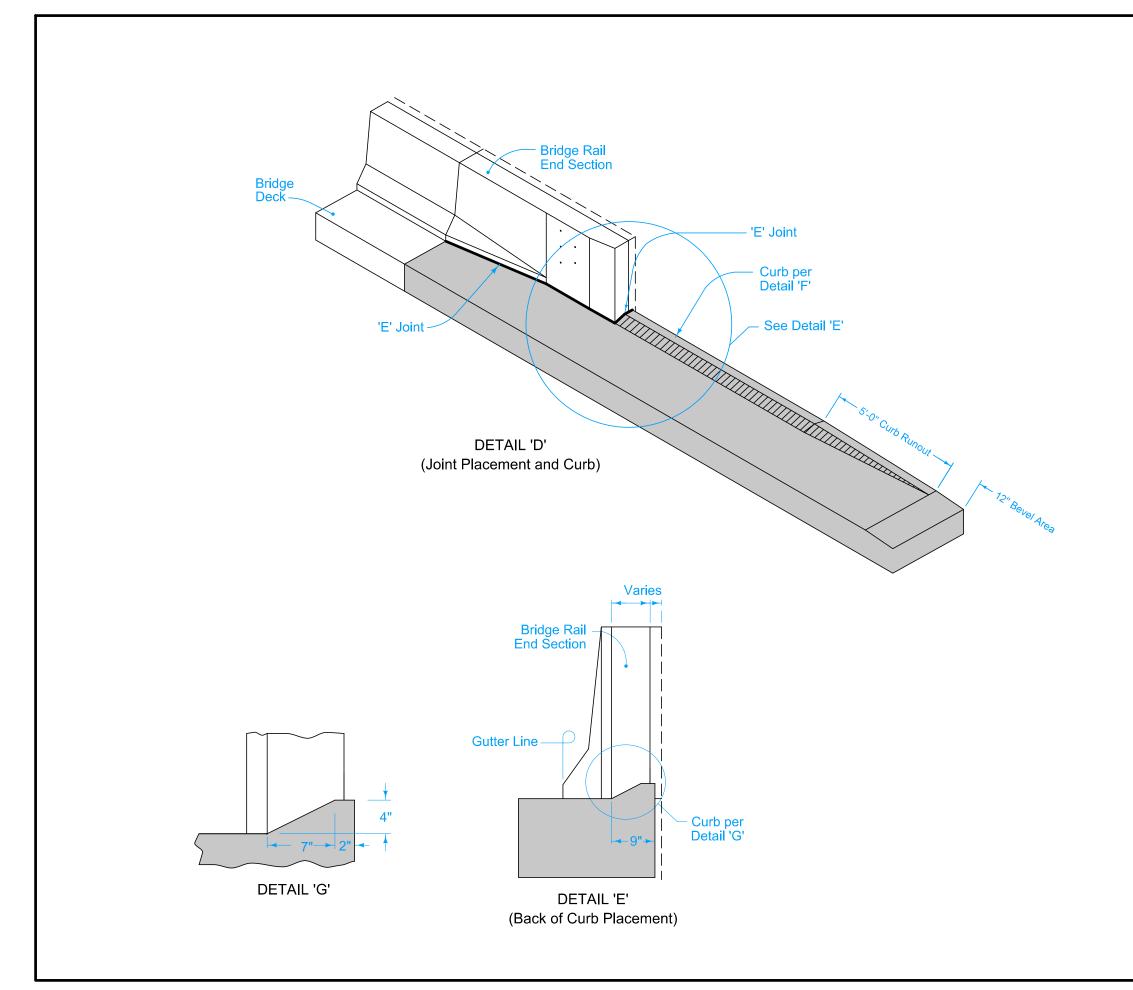




4 Longitudinal Joint (PV-101): Single pour - Saw cut joint per Detail B. Two pours - Use 'KS-2' joint.



**DOUBLE REINFORCED 10" APPROACH ON GRAVEL ROADS** 





REVISION 2 10-15-24



REVISIONS:

Added Longitudinal Grooving in Concrete to possible contract item.

Sturt Mills APPROVED BY DESIGN METHODS ENGINEER

DOUBLE REINFORCED 10" APPROACH ON GRAVEL ROADS