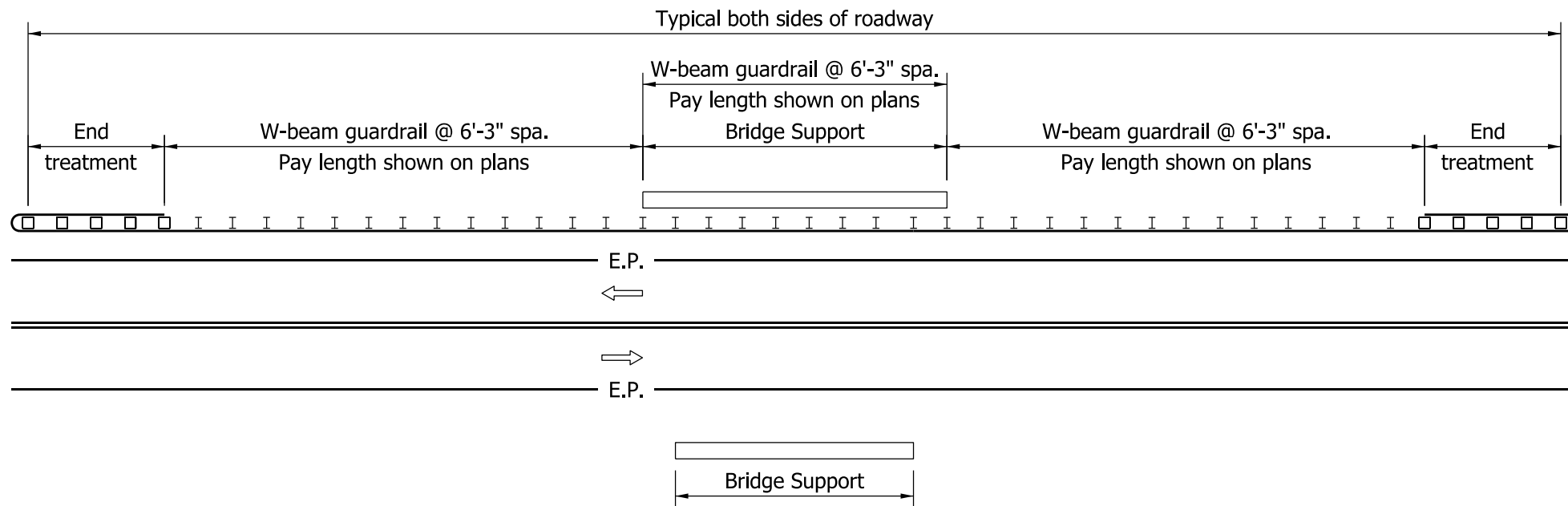
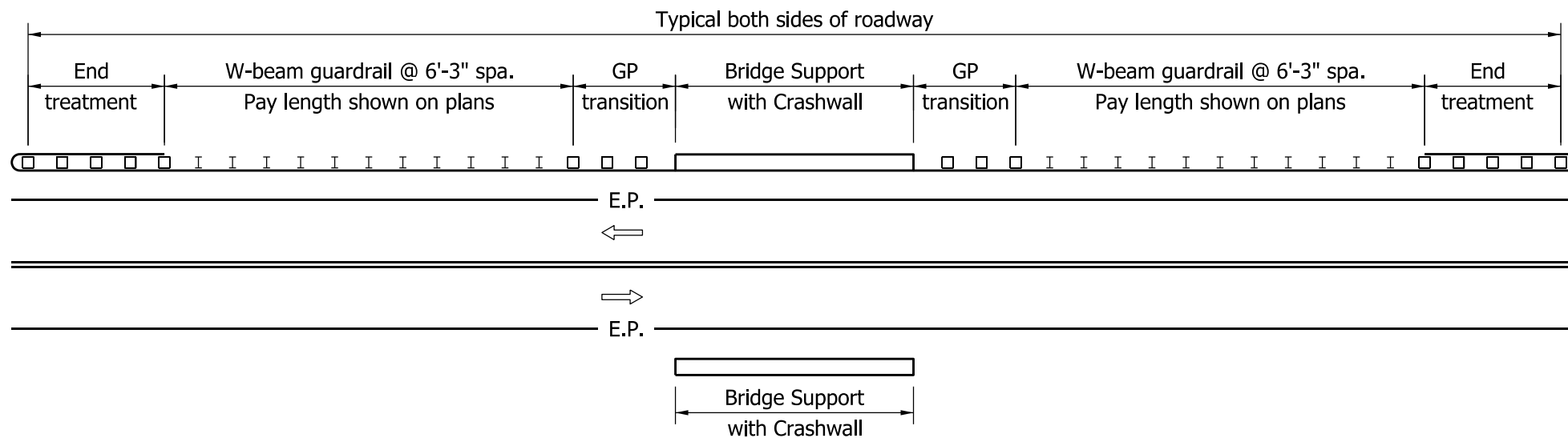


**NOTES:**

1. This configuration shall be used where W-beam guardrail is specified along a two-lane two-way roadway to shield the supports of an overhead structure.
2. Dimensions and details not shown hereon shall be as shown on the plans.



**TWO-LANE TWO-WAY ROADWAY WITH SINGLE OVERHEAD STRUCTURE AND BRIDGE-SUPPORT DISTANCE TO E.P. > 16'**

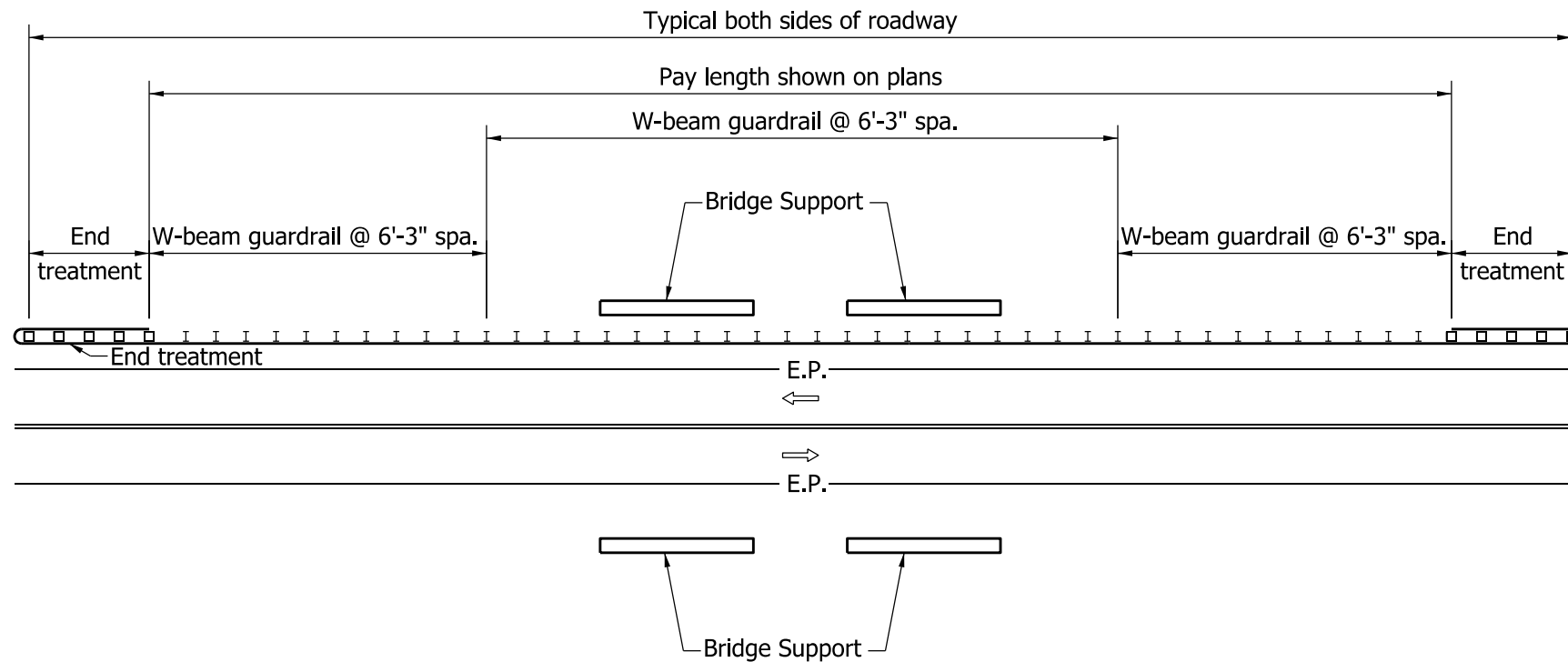


**TWO-LANE TWO-WAY ROADWAY WITH SINGLE OVERHEAD STRUCTURE AND BRIDGE-SUPPORT DISTANCE TO E.P. ≤ 16'**

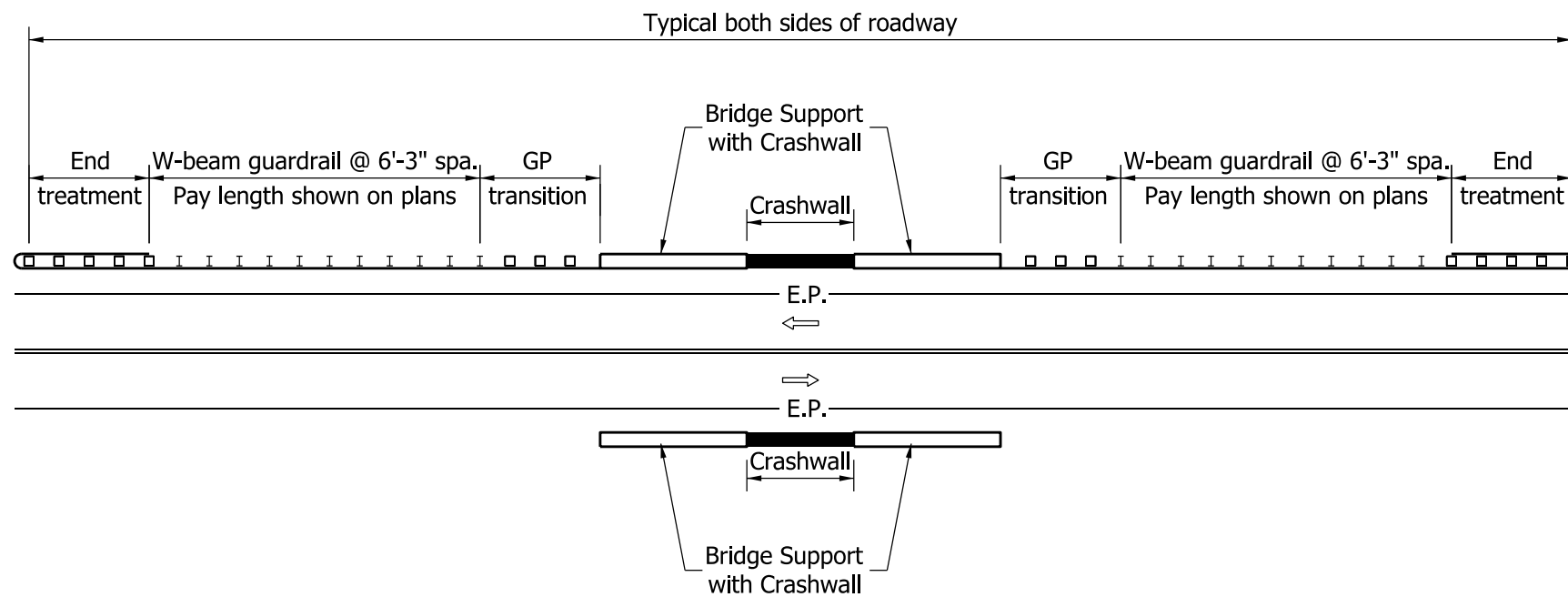
INDIANA DEPARTMENT OF TRANSPORTATION	
GUARDRAIL AT ROADSIDE BRIDGE SUPPORT	
SEPTEMBER 2011	
STANDARD DRAWING NO.	E 601-GRBS-01
	/s/ <i>Richard L. VanCleave</i> 09/01/11
	DESIGN STANDARDS ENGINEER      DATE
	/s/ <i>Mark A. Miller</i> 09/01/11
DESIGN STANDARDS ENGINEER	CHIEF HIGHWAY ENGINEER      DATE

**NOTES:**

1. This configuration shall be used where W-beam guardrail is specified along a two-lane two-way roadway to shield the supports of twin overhead structures.
2. Dimensions and details not shown hereon shall be as shown on the plans.



**TWO-LANE TWO-WAY ROADWAY WITH TWIN OVERHEAD STRUCTURES AND BRIDGE-SUPPORT DISTANCE TO E.P. > 16'**

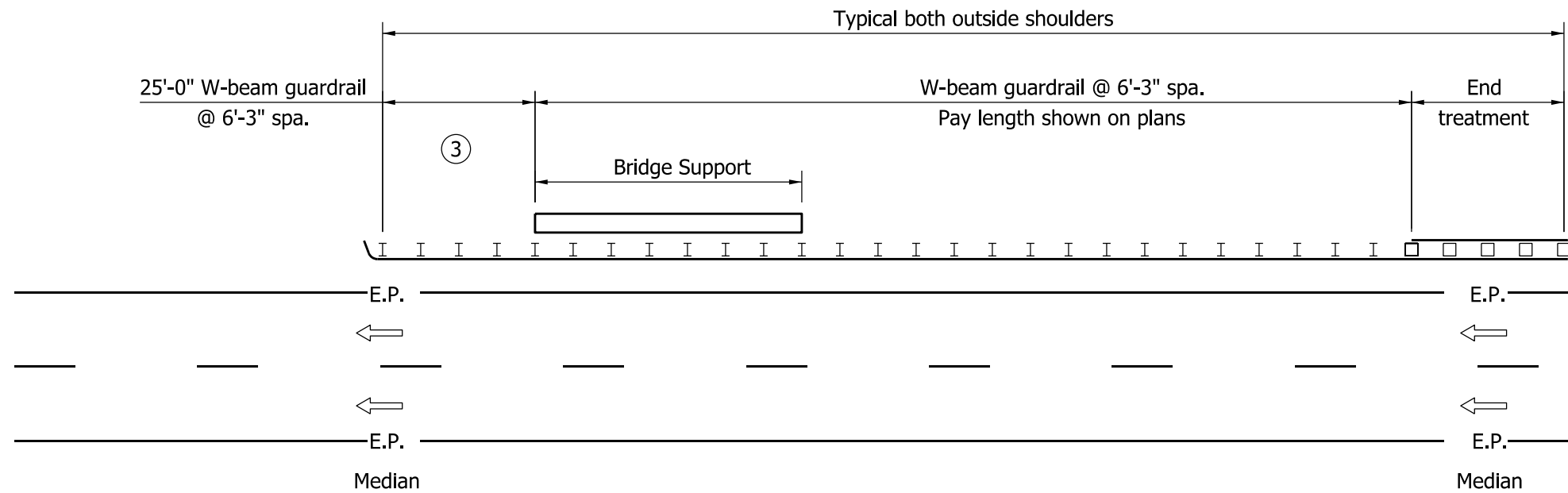


**TWO-LANE TWO-WAY ROADWAY WITH TWIN OVERHEAD STRUCTURES AND BRIDGE-SUPPORT DISTANCE TO E.P. ≤ 16'**

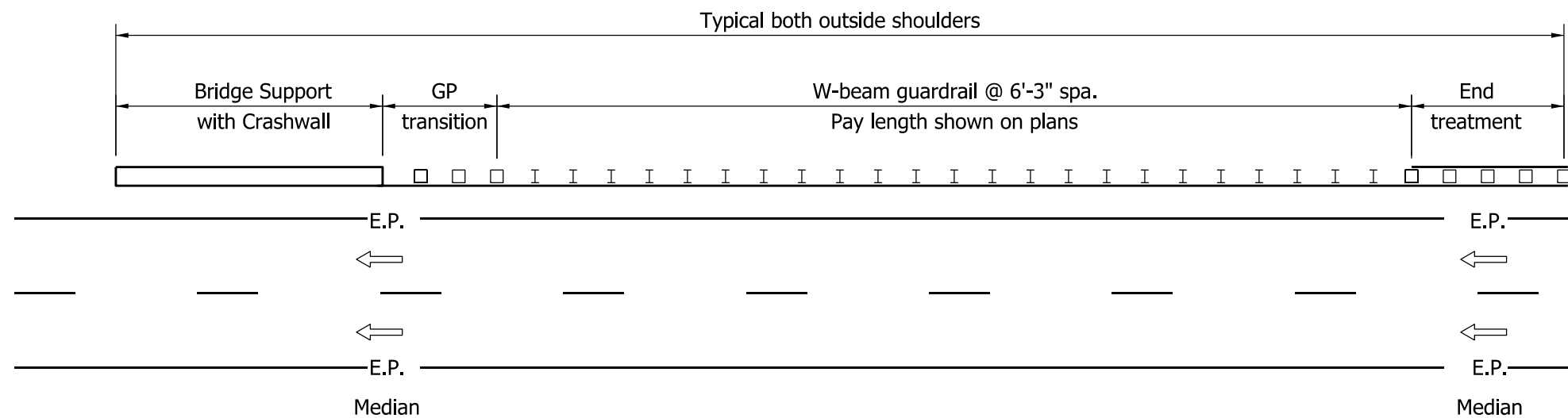
INDIANA DEPARTMENT OF TRANSPORTATION	
GUARDRAIL AT ROADSIDE BRIDGE SUPPORTS	
SEPTEMBER 2011	
STANDARD DRAWING NO.	E 601-GRBS-02
	/s/ <i>Richard L. VanCleave</i> 09/01/11
	DESIGN STANDARDS ENGINEER      DATE
	/s/ <i>Mark A. Miller</i> 09/01/11
	CHIEF HIGHWAY ENGINEER      DATE
DESIGN STANDARDS ENGINEER	

**NOTES:**


1. This configuration shall be used where W-beam guardrail is specified along the outside shoulder of a divided roadway to shield the supports of an overhead structure.
2. Dimensions and details not shown hereon shall be as shown on the plans.
- ③ Rectangular plate washers shall be installed at each post along this section. See Standard Drawing E 601-GRBS-08.



**DIVIDED ROADWAY WITH SINGLE OVERHEAD STRUCTURE AND OUTSIDE SHOULDER BRIDGE-SUPPORT DISTANCE TO E.P. > 16'**

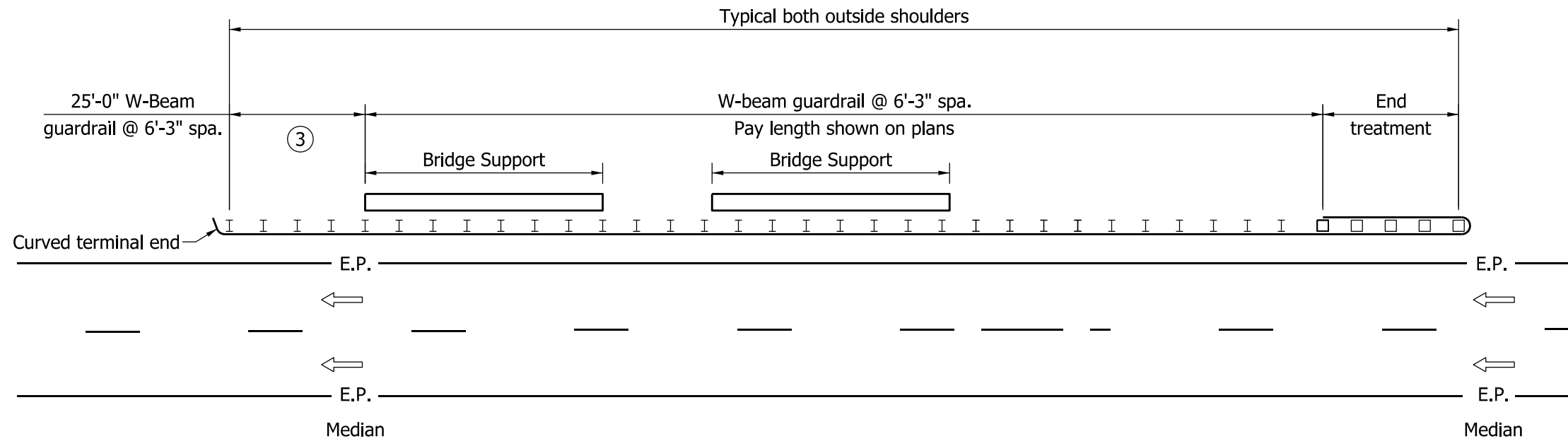


**DIVIDED ROADWAY WITH SINGLE OVERHEAD STRUCTURE AND OUTSIDE SHOULDER BRIDGE-SUPPORT DISTANCE TO E.P. ≤ 16'**

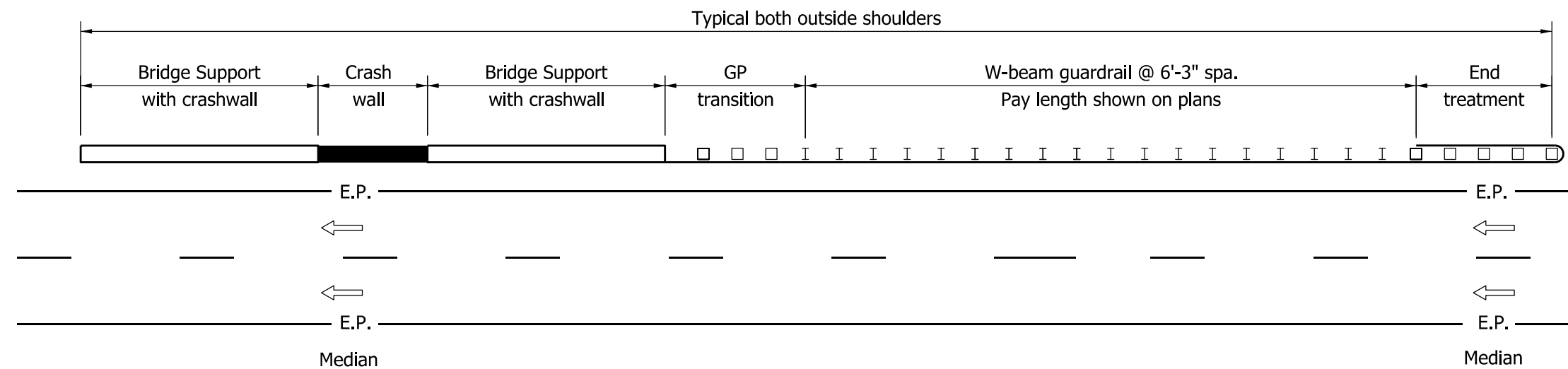
<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>									
<b>GUARDRAIL AT ROADSIDE BRIDGE SUPPORT</b>									
<b>SEPTEMBER 2011</b>									
<b>STANDARD DRAWING NO.</b>	<b>E 601-GRBS-03</b>								
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><i>/s/ Richard L. VanCleave</i></td> <td style="text-align: center;"><i>09/01/11</i></td> </tr> <tr> <td style="text-align: center;">DESIGN STANDARDS ENGINEER</td> <td style="text-align: center;">DATE</td> </tr> <tr> <td style="text-align: center;"><i>/s/ Mark A. Miller</i></td> <td style="text-align: center;"><i>09/01/11</i></td> </tr> <tr> <td style="text-align: center;">CHIEF HIGHWAY ENGINEER</td> <td style="text-align: center;">DATE</td> </tr> </table>	<i>/s/ Richard L. VanCleave</i>	<i>09/01/11</i>	DESIGN STANDARDS ENGINEER	DATE	<i>/s/ Mark A. Miller</i>	<i>09/01/11</i>	CHIEF HIGHWAY ENGINEER	DATE
<i>/s/ Richard L. VanCleave</i>	<i>09/01/11</i>								
DESIGN STANDARDS ENGINEER	DATE								
<i>/s/ Mark A. Miller</i>	<i>09/01/11</i>								
CHIEF HIGHWAY ENGINEER	DATE								
DESIGN STANDARDS ENGINEER									

**NOTES:**

1. This configuration shall be used where W-beam guardrail is specified along the outside shoulder of a divided roadway to shield the supports of twin overhead structures.
2. Dimensions and details not shown hereon shall be as shown on the plans.
- ③ Rectangular plate washers shall be installed at each post along this section. See Standard Drawing E 601-GRBS-08.



**DIVIDED ROADWAY WITH TWIN OVERHEAD STRUCTURES AND OUTSIDE-SHOULDER BRIDGE-SUPPORT DISTANCE TO E.P. > 16'**



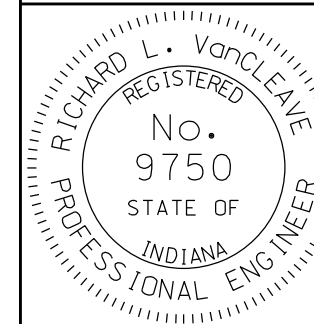
**DIVIDED ROADWAY WITH TWIN OVERHEAD STRUCTURES AND OUTSIDE-SHOULDER BRIDGE-SUPPORT DISTANCE TO E.P. ≤ 16'**

INDIANA DEPARTMENT OF TRANSPORTATION

GUARDRAIL AT ROADSIDE  
BRIDGE SUPPORTS

SEPTEMBER 2011

STANDARD DRAWING NO. E 601-GRBS-04



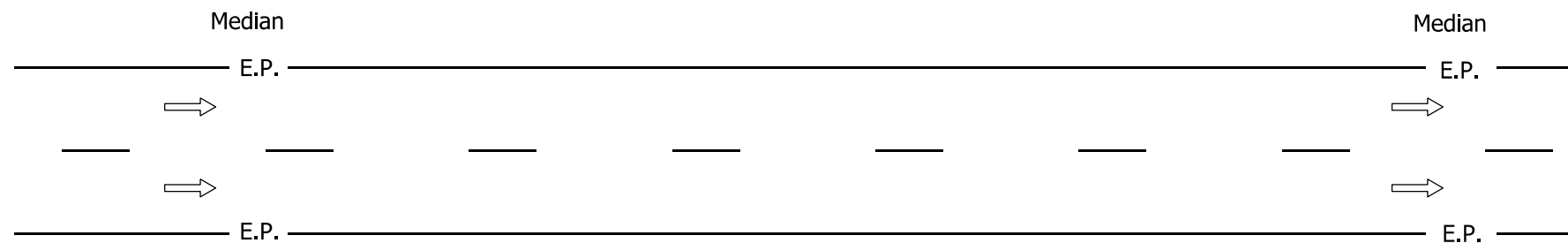
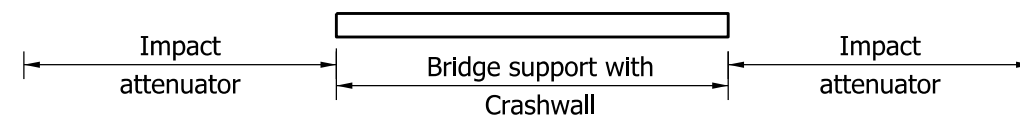
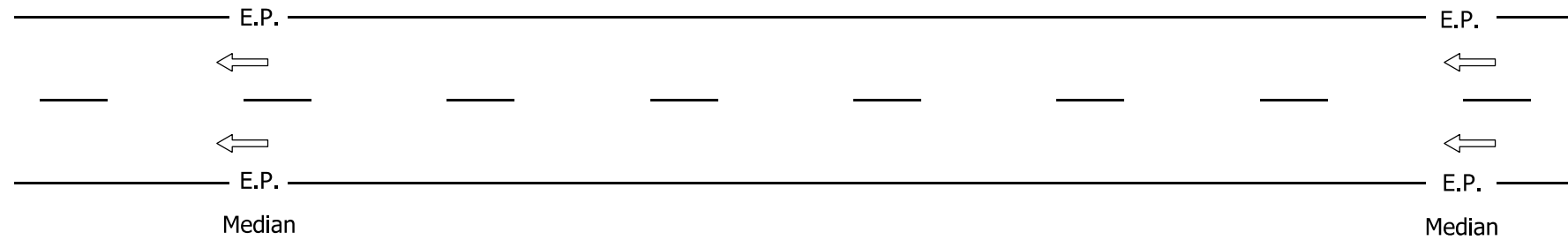
DESIGN STANDARDS ENGINEER

/s/ *Richard L. VanCleave* 09/01/11  
DESIGN STANDARDS ENGINEER DATE

/s/ *Mark A. Miller* 09/01/11  
CHIEF HIGHWAY ENGINEER DATE

**NOTES:**

1. This configuration shall be used where impact-attenuator units are specified in conjunction with a crashwall in the median of a divided roadway to shield the support of an overhead structure.
2. Dimensions and details not shown hereon shall be as shown on the plans.



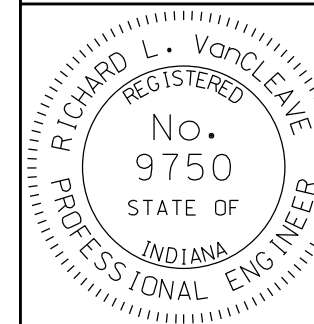
**DIVIDED ROADWAY WITH SINGLE OVERHEAD STRUCTURE AND MEDIAN BRIDGE SUPPORT**

INDIANA DEPARTMENT OF TRANSPORTATION

GUARDRAIL AT MEDIAN-SIDE  
BRIDGE SUPPORT

SEPTEMBER 2011

STANDARD DRAWING NO. E 601-GRBS-05



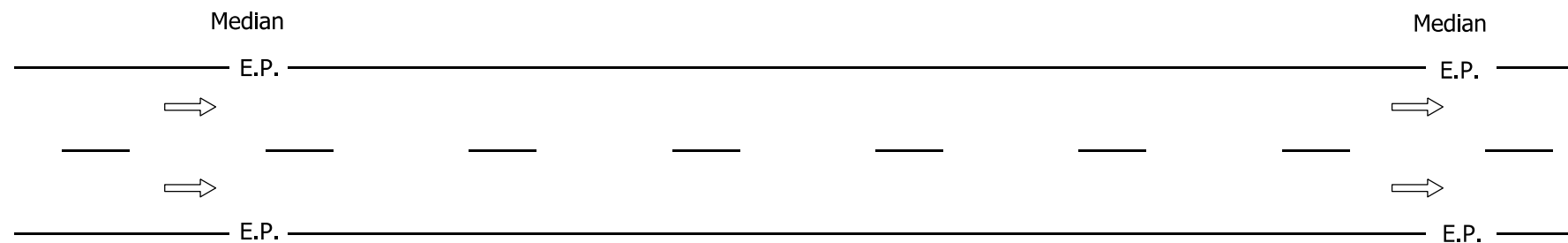
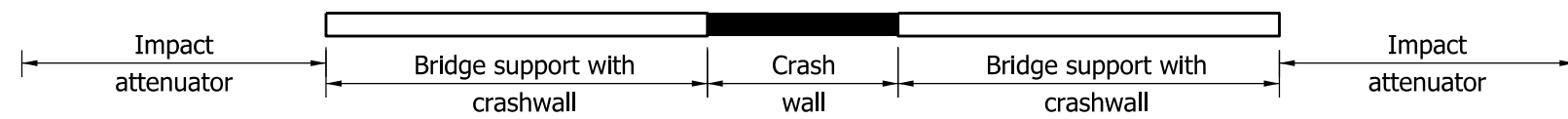
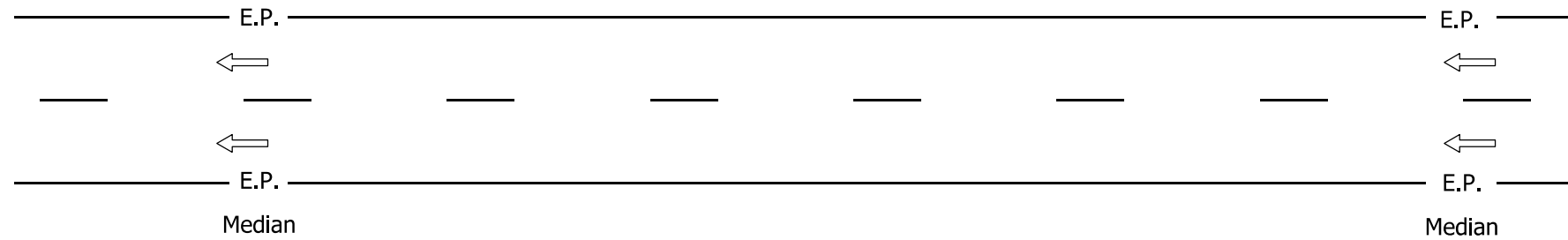
DESIGN STANDARDS ENGINEER

*/s/ Richard L. VanCleave* 09/01/11  
DESIGN STANDARDS ENGINEER DATE

*/s/ Mark A. Miller* 09/01/11  
CHIEF HIGHWAY ENGINEER DATE

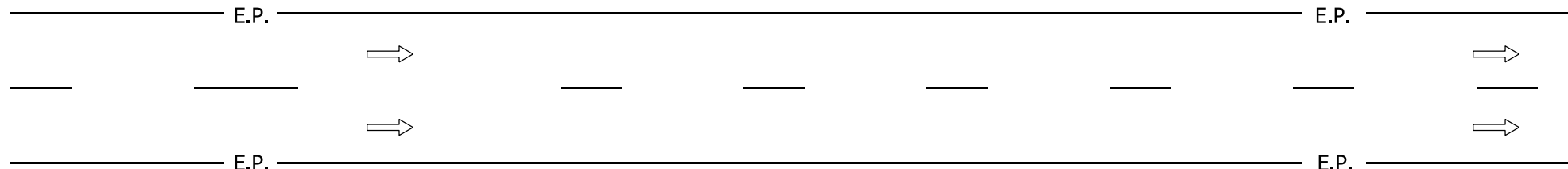
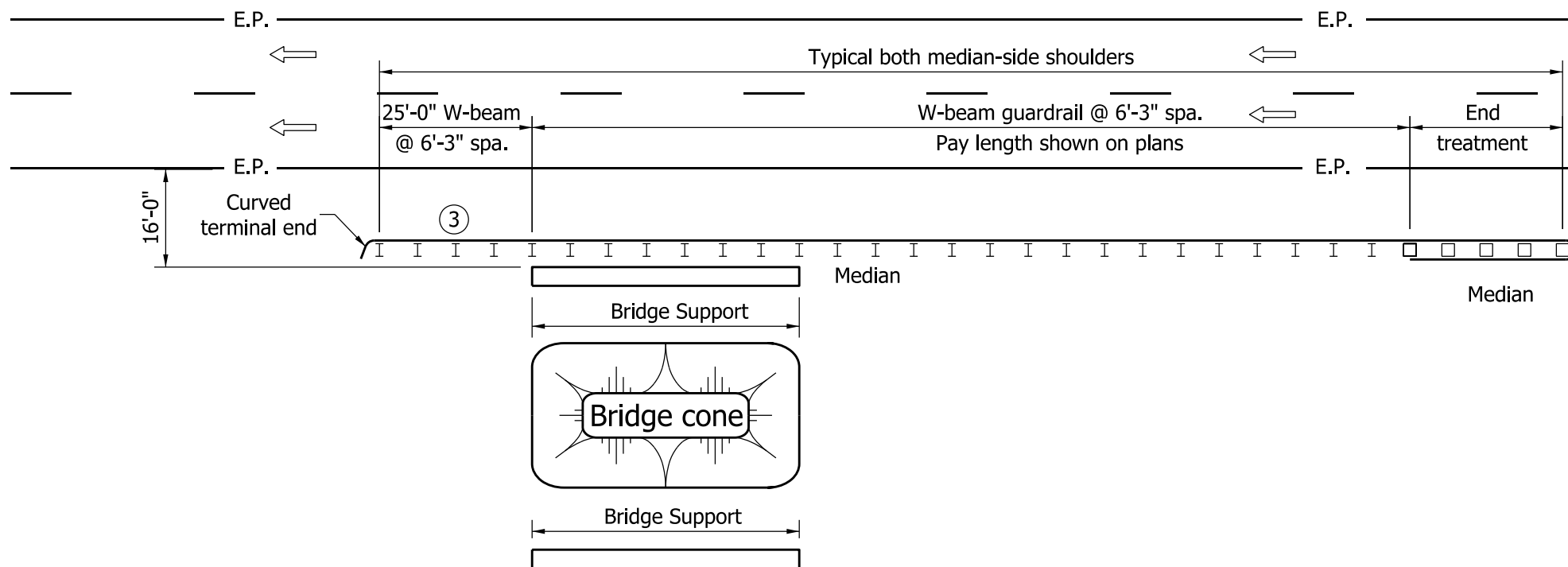
**NOTES:**

1. This configuration shall be used where impact-attenuator units are specified in conjunction with a crashwall in the median of a divided roadway to shield the supports of twin overhead structures.
2. Dimensions and details not shown hereon shall be as shown on the plans.

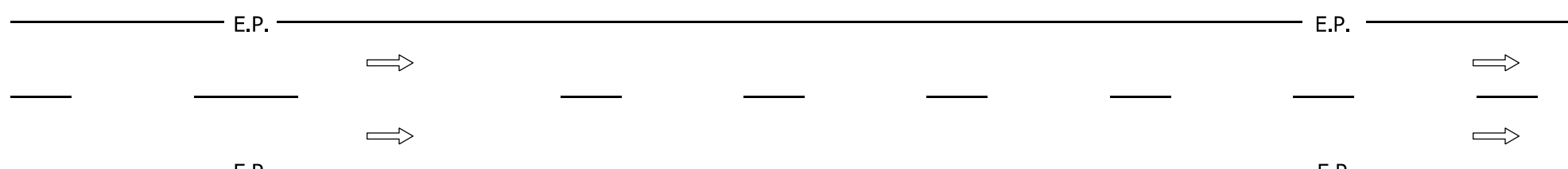
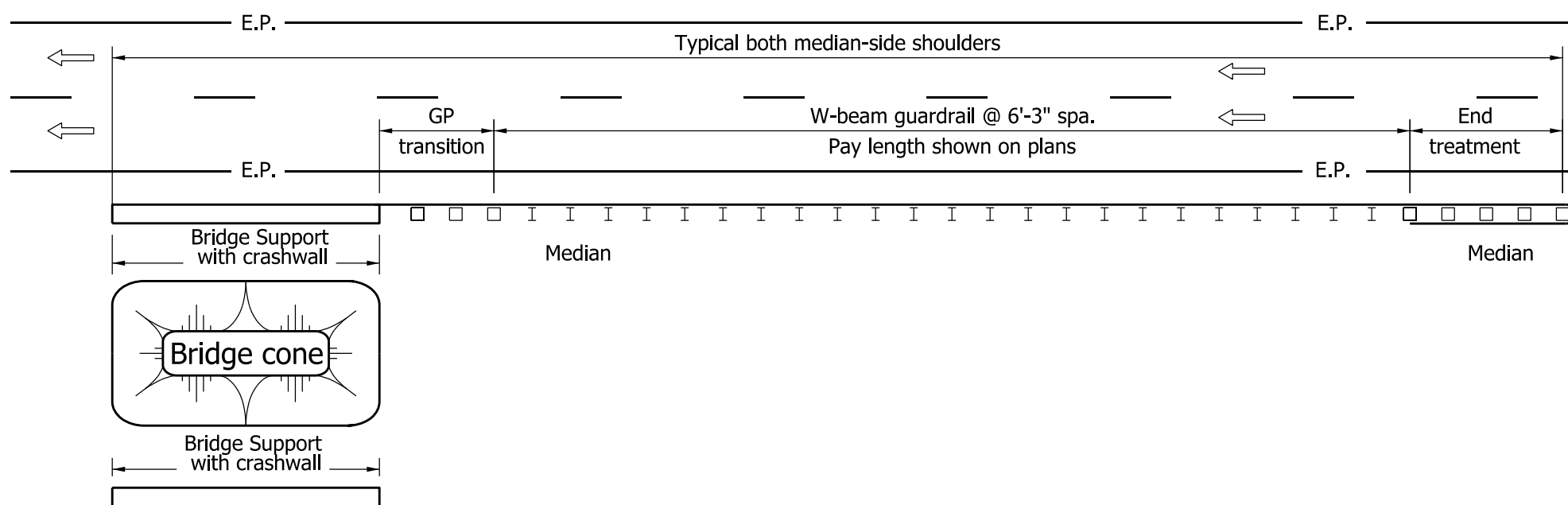


**DIVIDED ROADWAY WITH TWIN OVERHEAD STRUCTURES AND MEDIAN BRIDGE SUPPORTS**

INDIANA DEPARTMENT OF TRANSPORTATION	
GUARDRAIL AT MEDIAN-SIDE BRIDGE SUPPORTS	
SEPTEMBER 2011	
STANDARD DRAWING NO.	E 601-GRBS-06
	<i>/s/ Richard L. VanCleave</i> 09/01/11 DESIGN STANDARDS ENGINEER      DATE
	<i>/s/ Mark A. Miller</i> 09/01/11 CHIEF HIGHWAY ENGINEER      DATE
DESIGN STANDARDS ENGINEER	



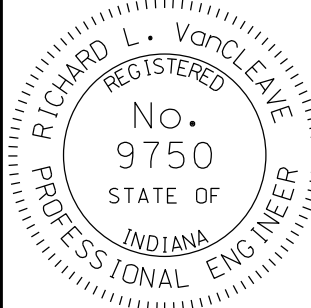
**DIVIDED ROADWAY WITH TANDEM OVERHEAD STRUCTURES AND MEDIAN-SIDE BRIDGE-SUPPORT DISTANCE TO E.P. > 16'**

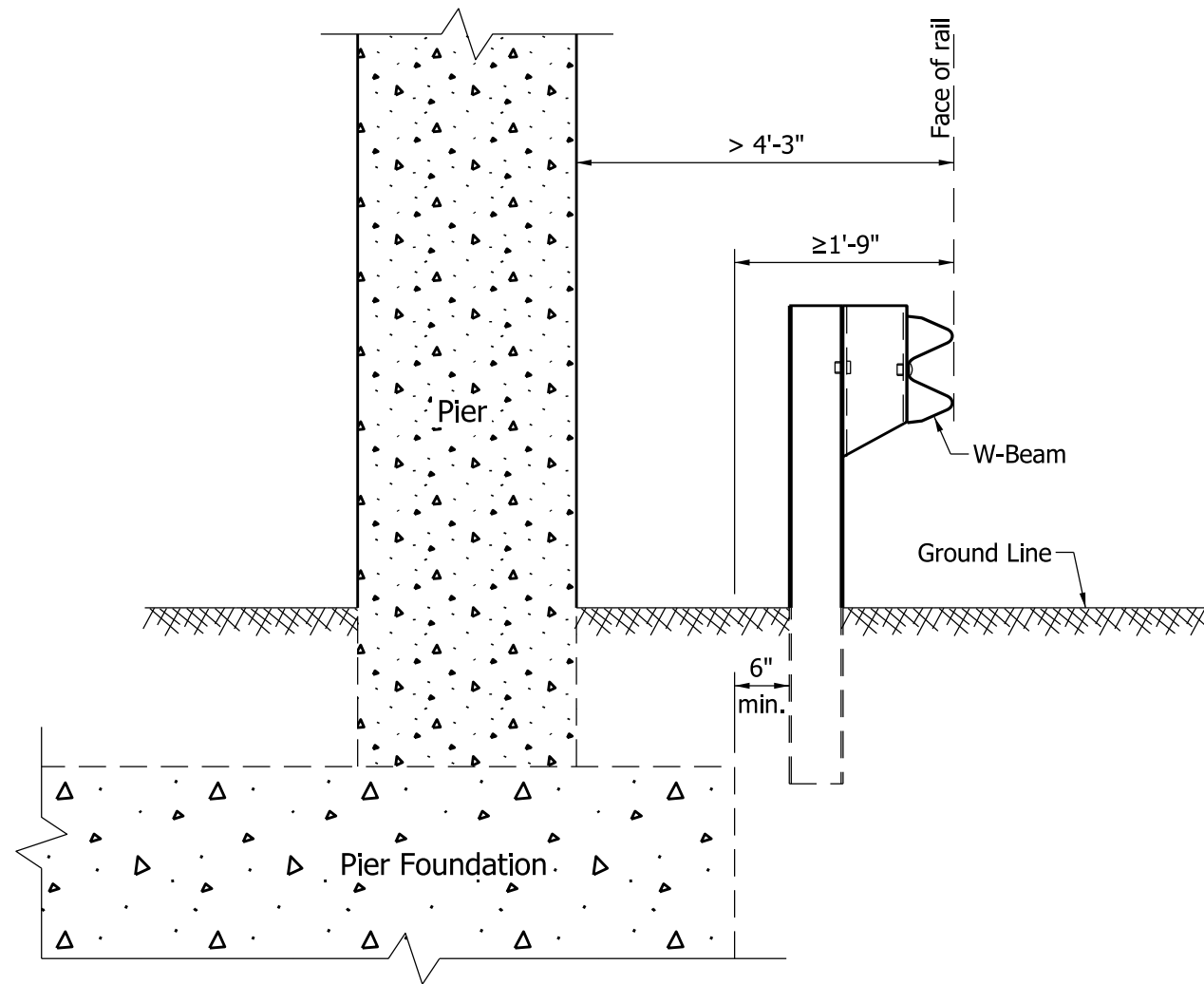


**DIVIDED ROADWAY WITH TANDEM OVERHEAD STRUCTURES AND MEDIAN-SIDE BRIDGE-SUPPORT DISTANCE TO E.P. ≤ 16'**

**NOTES:**

1. This configuration shall be used where W-beam guardrail is specified along the median-side shoulder of a divided roadway to shield the support of a tandem overhead structure.
2. Dimensions and details not shown hereon shall be as shown on the plans.
- ③ Rectangular plate washers shall be installed at each post along this section. See Standard Drawing E 601-GRBS-08.

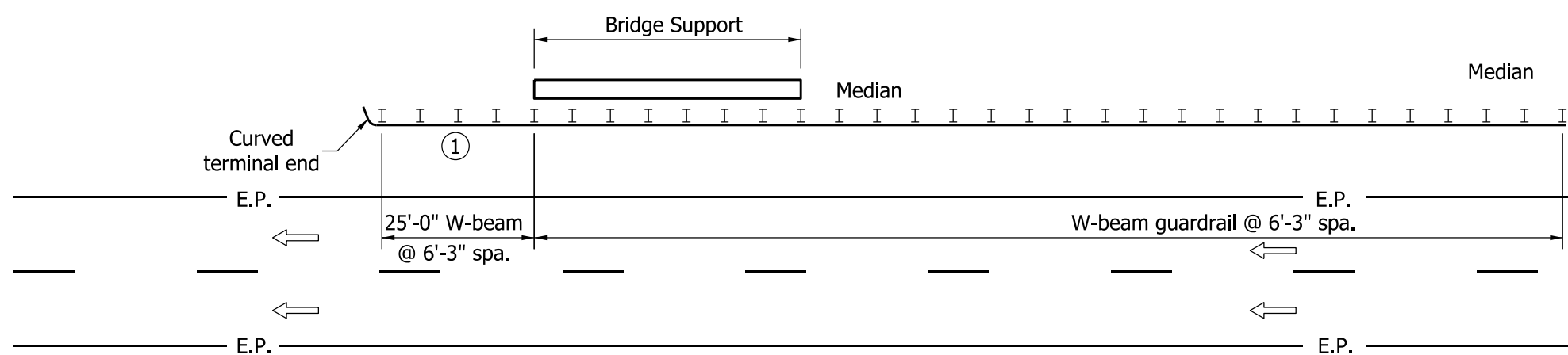
<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>									
<b>GUARDRAIL AT MEDIAN-SIDE BRIDGE SUPPORT</b>									
<b>SEPTEMBER 2011</b>									
<b>STANDARD DRAWING NO.</b>	<b>E 601-GRBS-07</b>								
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<i>/s/ Richard L. VanCleave</i>	<i>09/01/11</i>								
DESIGN STANDARDS ENGINEER	DATE								
<i>/s/ Mark A. Miller</i>	<i>09/01/11</i>								
CHIEF HIGHWAY ENGINEER	DATE								
DESIGN STANDARDS ENGINEER									




**GUARDRAIL-TO-PIER CLEARANCE**

**NOTE:**

- ① Washers required for each post in this section shall be rectangular plate washers, as shown on Standard Drawing E 601-WBGC-02.



**DOWNSTREAM GUARDRAIL TREATMENT**

INDIANA DEPARTMENT OF TRANSPORTATION									
GUARDRAIL AT BRIDGE SUPPORT									
SEPTEMBER 2011									
STANDARD DRAWING NO. E 601-GRBS-08									
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; padding: 2px;">/s/ <i>Richard L. VanCleave</i></td> <td style="width: 30%; padding: 2px;">09/01/11</td> </tr> <tr> <td style="padding: 2px;">DESIGN STANDARDS ENGINEER</td> <td style="padding: 2px;">DATE</td> </tr> <tr> <td style="padding: 2px;">/s/ <i>Mark A. Miller</i></td> <td style="padding: 2px;">09/01/11</td> </tr> <tr> <td style="padding: 2px;">CHIEF HIGHWAY ENGINEER</td> <td style="padding: 2px;">DATE</td> </tr> </table>	/s/ <i>Richard L. VanCleave</i>	09/01/11	DESIGN STANDARDS ENGINEER	DATE	/s/ <i>Mark A. Miller</i>	09/01/11	CHIEF HIGHWAY ENGINEER	DATE
/s/ <i>Richard L. VanCleave</i>	09/01/11								
DESIGN STANDARDS ENGINEER	DATE								
/s/ <i>Mark A. Miller</i>	09/01/11								
CHIEF HIGHWAY ENGINEER	DATE								
DESIGN STANDARDS ENGINEER									