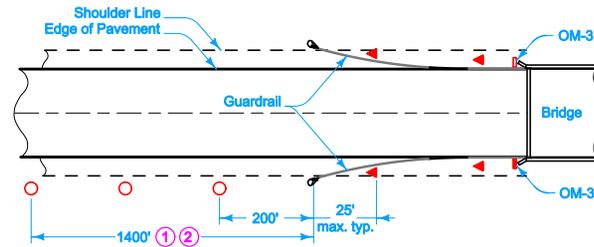
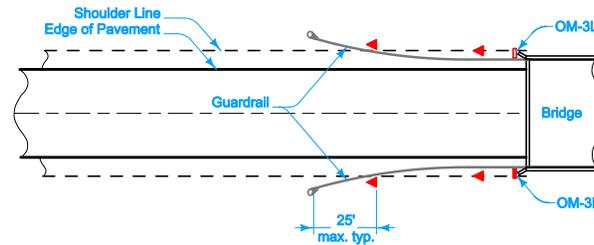


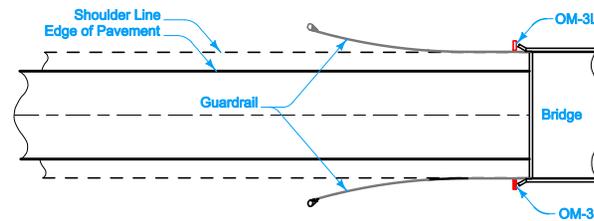
See **SI-172** for details of Delineators and **SI-173** for details of Object Markers.



**TYPE 1**  
**BRIDGE OR CONCRETE BARRIER RAIL**  
 (LESS THAN FULL SHOULDER WIDTH AND BRIDGE/ROADWAY WIDTH LESS THAN 30 FT.)



**TYPE 2**  
**BRIDGE OR CONCRETE BARRIER RAIL**  
 (LESS THAN FULL SHOULDER WIDTH AND BRIDGE/ROADWAY WIDTH 30 FT. OR GREATER)



**TYPE 3**  
**BRIDGE OR CONCRETE BARRIER RAIL**  
 (FULL SHOULDER WIDTH)

**INSTALLATION AT BRIDGES**

**TYPE 1:**  
 Beginning 25 ft. from the approach end of guardrail, install Type 2 Object Markers at 25 ft. intervals behind the guardrail. Install Type 3 Object Marker at the bridge ends. On paved roadways only, install 7 Single White Delineators at 200 ft. spacing beginning 200 ft. in front of the approach end of the guardrail. For ramp terminals see note 2.

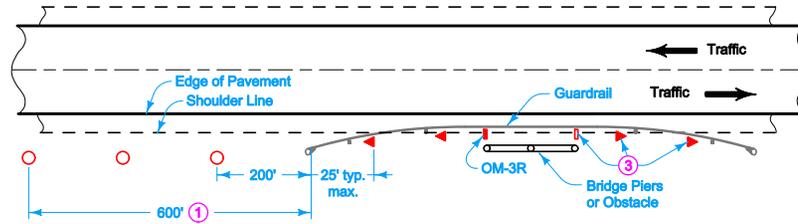
**TYPE 2:**  
 Beginning 25 ft. from the approach end of guardrail, install Type 2 Object Markers at 25 ft. intervals behind the guardrail. Install Type 3 Object Marker at the bridge ends.

**TYPE 3:**  
 Install Type 3 Object Markers at the bridge ends.

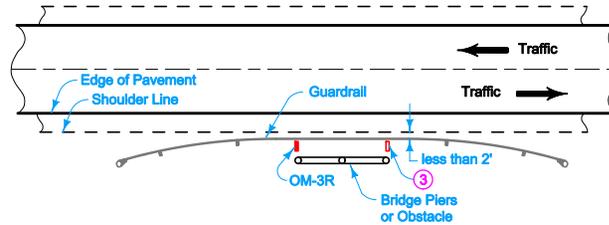
- ① Not required on projects where delineators are proposed or installed throughout the length of the project.
- ② At ramp terminals only, install Single White Delineators as follows: Place first delineator at location where near ramp terminal radius meets the edge of the through pavement. Place additional delineator(s) spaced equally (spacing not to exceed 200') between first delineator and guardrail.

LEGEND	
	Type 3 Object Marker, Left (OM-3L)
	Type 3 Object Marker, Right (OM-3R)
	Type 2 Object Marker
	Rigid Delineator, Type 1 White

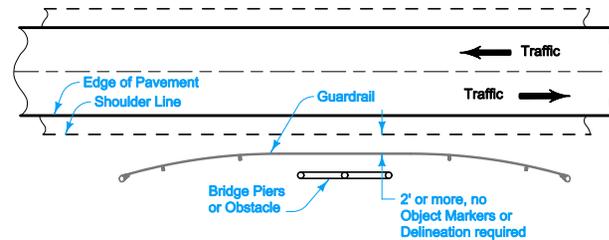
	REVISION
	1 10-19-10
<b>STANDARD ROAD PLAN</b>	<b>SI-211</b>
	SHEET 1 of 3
REVISIONS: Added notes for clarification.	
 APPROVED BY DESIGN METHODS ENGINEER	
<b>OBJECT MARKER          AND DELINEATOR PLACEMENT          WITH GUARDRAIL</b>	



**TYPE 4  
MARKING SIDE OBSTACLES**  
(STEEL BEAM GUARDRAIL ON THE SHOULDER)



**TYPE 5  
MARKING SIDE OBSTACLES**  
(STEEL BEAM GUARDRAIL LESS THAN 2 FT. FROM THE SHOULDER LINE)



**TYPE 6  
MARKING SIDE OBSTACLES**  
(STEEL BEAM GUARDRAIL 2 FT. OR MORE FROM THE SHOULDER LINE)

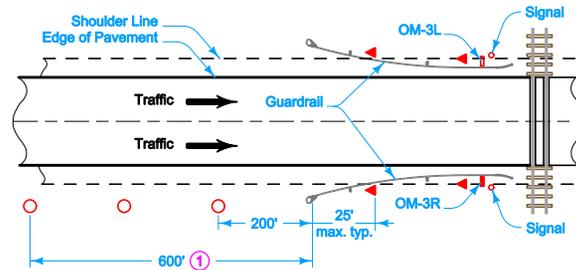
**INSTALLATION AT SIDE OBSTACLES**

LEGEND	
	Type 3 Object Marker, Left (OM-3L)
	Type 3 Object Marker, Right (OM-3R)
	Type 2 Object Marker
	Rigid Delineator, Type 1 White

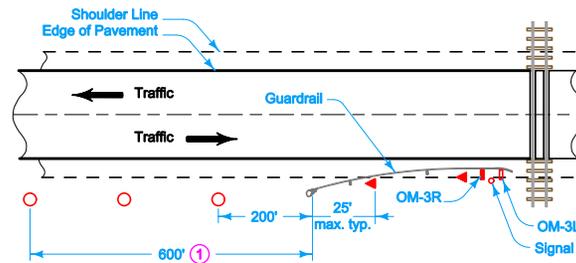
**TYPE 4:**  
Beginning 25 ft. from the approach end of guardrail, install Type 2 Object Markers at 25 ft. intervals behind the guardrail. Beginning 200 ft. in front of approach end of the guardrail, install 3 Single White Delineators at 200 ft. spacing. Additional markers as shown.

- ① Not required on projects where delineators are proposed or installed throughout the length of the project.
- ③ Type 2 and Type 3 Object Marker at trailing end of obstacle not required when one-way traffic exists.

	Iowa Department of Transportation <b>STANDARD ROAD PLAN</b>	REVISION 1   10-19-10
	<b>SI-211</b> SHEET 2 of 3	REVISIONS: Added notes for clarification.
<i>Deanna Mifflin</i> APPROVED BY DESIGN METHODS ENGINEER		
<b>OBJECT MARKER AND DELINEATOR PLACEMENT WITH GUARDRAIL</b>		



**TYPE 7**  
**MARKING RAILROAD CROSSING SIGNALS**  
 (ONE-WAY TRAFFIC)



**TYPE 8**  
**MARKING RAILROAD CROSSING SIGNALS**  
 (TWO-WAY TRAFFIC)

**TYPE 7:**  
 Beginning 25 ft. from the approach end of guardrail, install Type 2 Object Markers at 25 ft. intervals behind the guardrail. Beginning 200 ft. in front of approach end of the outside guardrail, install 3 Single White Delineators at 200 ft. spacing.

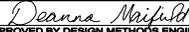
**TYPE 8:**  
 Beginning 25 ft. from the approach end of guardrail, install Type 2 Object Markers at 25 ft. intervals behind the guardrail. Beginning 200 ft. in front of approach end of the right guardrail, install 3 Single White Delineators at 200 ft. spacing.

① Not required on projects where delineators are proposed or installed throughout the length of the project.

**LEGEND**

-  Type 3 Object Marker, Left (OM-3L)
-  Type 3 Object Marker, Right (OM-3R)
-  Type 2 Object Marker
-  Rigid Delineator, Type 1 White

**INSTALLATION AT RAILROADS**

 Iowa Department of Transportation	REVISION	
	1	10-19-10
<b>STANDARD ROAD PLAN</b>	<b>SI-211</b>	
	SHEET 3 of 3	
REVISIONS: Added notes for clarification.		
 APPROVED BY DESIGN METHODS ENGINEER		
<b>OBJECT MARKER          AND DELINEATOR PLACEMENT          WITH GUARDRAIL</b>		