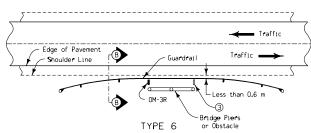
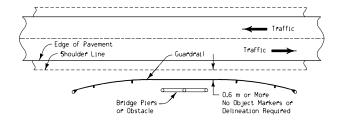




TYPE 5 DETAILS FOR MARKING SIDE OBSTACLES (GUARDRAIL ON THE SHOULDER)

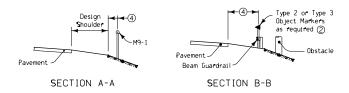


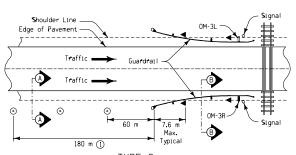
DETAILS FOR MARKING SIDE OBSTACLES (GUARDRAIL LESS THAN O.6 METERS FROM THE SHOULDER LINE)



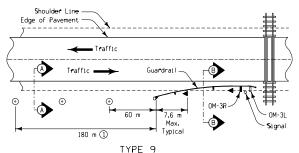
TYPE 7

DETAILS FOR MARKING SIDE OBSTACLES (GUARDRAIL 0.6 METERS OR MORE FROM THE SHOULDER LINE)





TYPE 8 DETAILS FOR MARKING RAILROAD CROSSING SIGNALS (ONE-WAY TRAFFIC)



DETAILS FOR MARKING RAILROAD CROSSING SIGNALS (TWO-WAY TRAFFIC)

- 1 Not required on projects where delineators are proposed or installed throughout the length of the project.
- (2) All Delineator and Object Marker placement shall be behind face of guardrail. The edge of object marker (OM-3L or OM-3R) shall be aligned with the face of guard-rail.
- OM-3L Object Marker at trailing end of obstacle not required when one-way
- (4) Refer to Standard Road Plans RE-7 and RE-47.

GENERAL NOTES:

Details shown hereon cover the placement of Markers and Delineators at side obstacles and railroad crossing signals in conjunction with the installation of guardrail. If a guardrail installation is warranted, delineation is required as determined by the following types of situations.

INSTALLATION AT SIDE OBSTACLES:

The location of the guardrail protecting the obstacle determines the delineation required.

- When guardrail encroaches onto the shoulder, Object Markers and Delineation are required. Install a Type 3 Object Marker at the approach (OM-3R) and trailing end (OM-3L) of obstacle when twoway traffic exists. Install a Type 3 Object Marker (OM-3R) at the approach end of obstacle only when one-way traffic exists. Beginning 7.6 meters from the approach end of guardrail, install Type 2 Object Markers (OM2-3YV) at 7.6 meter intervals behind the guardrail. Beginning 60 meters in front of approach end of the guardrail, install 3 Single White Delineators (D-IW) at 60 meter spacing.
- TYPE 6: When guardrail is less than 0.6 meters off the shoulder line, Object Marker (OM-3L or OM-3R) is required.
- When guardrail is 0.6 meters or more off the shoulder line, no Object Markers or Delineators are required.

INSTALLATION AT RAILROAD CROSSINGS:

- TYPE 8: One-Way Traffic. Install a Type 3 Object Marker (OM-3R or OM-3L) on the approach side of the signal. Beginning 7.6 meters from the approach end of guardrail, install Type 2 Object Markers (OM2-3YV) at 7.6 meter intervals behind the guardrail. Beginning 60 meters in front of approach end of the outside guardrail, install 3 Single White Delineators (D-IW) at 60 meter spacing.
- Two-Way Traffic. When guardrail encroaches onto the shoulder Object Markers and Delineation are required. Install a Type 3 Object Marker (OM-3R or OM-3L) at signal. Beginning 7.6 meters from the approach end of guardrail, install Type 2 Object Markers (OM2-3YV) at 7.6 meter intervals behind the guardrail. Beginning 60 meters in front of approach end of the right guardrail, install 3 Single White Delineators (D-IW) at 60 meter spacing.

When object markers or delineator are required with guardrail install—iations, the object markers or delineator will be included in the price bid for installation of guardrail. When object markers or delineators are required when no guardrail work is done the object markers and and delineators will be bid.

Price bid for contract items shall be considered full compensation for furnishing, fabricating, and erecting the delineators and object markers including posts, necessary hardware, and labor to complete the work.

Contract bid items are:

Single White Delineators

Type 2 Object Markers Type 3 Object Markers

All dimensions given in millimeters unless noted.



AND DELINEATOR PLACEMENT (AT SIDE OBSTACLES)