TYPICAL MGS W-BEAM INSTALLATION

NOTES:

1. Where the distance from back of post to shoulder slope break is less than 2 ft the working width should be adjusted.

2. Blockouts of 12 in. or 16 in. depth to increase the post offset may be utilized to avoid an underground obstruction. There is no limit to the number of posts that can have additional blockout width up to a 16 in. depth.

3. The post should not be encased with asphalt, concrete, or riprap.

4. Standard post length is 6 ft.

MIDWEST GUARDRAIL SYSTEM ASSEMBLY
TYPICAL DOUBLE-FACED MGS W-BEAM INSTALLATION

NOTES:

1. The post should not be encased with asphalt, concrete, or riprap.
ELEVATION VIEW

MGS OMITTED POST

NOTES:

1. A single post may be omitted within an MGS w-beam run of guardrail.

₂ Where a post is omitted a minimum length of MGS standard post spacing guardrail should be placed as shown on the following pages of this Figure.

3. An MGS guardrail run containing an omitted post should not be placed adjacent vertical or sloping curb.
MINIMUM DISTANCE BETWEEN OMITTED POST AND FLARED MGS W-BEAM

MINIMUM DISTANCE BETWEEN OMITTED POST AND MGS GUARDRAIL TRANSITION

MIDWEST GUARDRAIL SYSTEM ASSEMBLY, OMITTED POST

Page 2 of 4
MINIMUM DISTANCE BETWEEN OMITTED POST AND GUARDRAIL END TREATMENT

MINIMUM DISTANCE BETWEEN OMITTED POST AND MGS CABLE TERMINAL ANCHOR SYSTEM

MIDWEST GUARDRAIL SYSTEM ASSEMBLY, OMITTED POST
MIDWEST GUARDRAIL SYSTEM ASSEMBLY, OMITTED POST

Page 4 of 4
MGS LONG-SPAN INSTALLATION (2 or 3 Posts Omitted)

NOTES:

1. A minimum length of MGS w-beam guardrail should be installed both upstream and downstream of the outermost CRT posts. Refer to the minimum MGS w-beam guardrail length tabulated according to the number of omitted posts. This length includes the length of any end treatment, end anchor, and transition.

2. A minimum of 62 ft -6 in. of tangent MGS w-beam guardrail should be installed between the outermost CRT post and the beginning of any flared guardrail section.

3. An MGS w-beam guardrail run containing a long-span should not be placed adjacent vertical or sloping curb.
NOTES:

1. Where the structure headwall projection is greater than 2 in. above the grade, the inside face of the structure headwall should be 8 ft from the face of MGS w-beam guardrail.

MIDWEST GUARDRAIL SYSTEM ASSEMBLY, LONG-SPAN

Page 2 of 3
Where the structure headwall projection is 2 in. or less above the grade, the inside face of the headwall should be 2 ft from the face of MGS w-beam.
MIDWEST GUARDRAIL SYSTEM ASSEMBLY,
GUARDRAIL TRANSITION WITH OR WITHOUT CURB

ELEVATION VIEW

NOTES:

1. Optional 4 in. sloping curb. The toe of the sloping curb should be placed flush with the backside face of the guardrail and extended at least the length of the transition, to post 17.

2. Guardrail mounting height at bridge railing transition is 2 ft-7 3/4 in. Transition guardrail mounting height down to 2 ft-7 in.

3. The 12 ft-6 in. of MGS w-beam guardrail half post spacing beyond the w-beam to thrie-beam transition should be placed for all installations.

4. 12 ft-6 in. of tangent MGS w-beam guardrail should be placed beyond the MGS guardrail transition limits.
MGS W-Beam Guardrail Height Transition = 37'-6"

ELEVATION VIEW

MGS W-BEAM GUARDRAIL HEIGHT TRANSITION
1. The MGS cable terminal anchor system should only be used at the outgoing end of an MGS w-beam guardrail run not exposed to oncoming traffic.
NOTES:

1. Guardrail placement should consider working width.

2. Working width assumes an 8-in. blockout. Where a deeper blockout is used, the working width should be adjusted to include the additional depth.