MGS Rail End Sections and Hole Details

1. TL-3 & TL-4 Right Hand Rail
2. TL-3 & TL-4 Left Hand Rail
3. Transition A & B Lower Angle Assembly
4. Transition A Upper Angle Assembly
5. Transition B Upper Angle Assembly
6. Transition C Connector Plate
7. Transition C Connector Plate (Cont.)
8. Transition D Connector Plate
9. Transition D Connector Plate (Cont.)

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13. Transition D Connector Plate
14. Transition D Connector Plate (Cont.)

W-BEAM CONNECTOR (END SHOE)

10 Gauge (3.5 Thick)

NOTES:
1. Clip the corners as shown, only when connecting to WYDOT’s TL-3 (uses two, 2" x 6" [51 x 152] rails) Steel Tube Bridge Rail.

TUOHIE BEAM CONNECTOR (END SHOE)

10 Gauge (3.5 Thick)

NOTE: 1 Clip the corners as shown, only when connecting to WYDOT’s TL-3 (uses two, 2" x 6" [51 x 152] rails) Steel Tube Bridge Rail.
**SPECIAL SOFTSTOP ANCHOR RAIL ELEMENT (13'- 6 1/2'' [4130])**

This rail element is the first rail element in the SoftStop Terminal, it also acts as an anchor to hold the system in tension.

Details shown above are approximate. The special SoftStop Terminal rail element shown herein is proprietary and can only be manufactured and sold by Trinity Highway Products, LLC, or its duly authorized representative.

**FLEAT AND MSKT RAIL ELEMENT (12' - 6'' [3810])**

This rail element is the first rail element in the FLEAT and MSKT Terminals (POSTS 1 - 3).

Details shown above are approximate. The special MSKT, FLEAT MGS Terminal rail element shown herein is proprietary and can only be manufactured and sold by Road Systems Inc. or its duly authorized representative.

**SPECIAL SOFTSTOP ANCHOR RAIL ELEMENT (13' - 6 5/8'' [4130])**

This rail element is the first rail element in the SoftStop Terminal, it also acts as an anchor to hold the system in tension.

Details shown above are approximate. The special SoftStop Terminal rail element shown herein is proprietary and can only be manufactured and sold by Trinity Highway Products, LLC, or its duly authorized representative.
### STANDARD MGS RECTANGULAR WOOD POST

**Uses:** Std. MGS Guardrail Post  
Std. Legacy W-Beam Guardrail Post  

**NOTE:** For MGS Long Post, L=7 1/2 ft [2285]

### STANDARD MGS ROUND WOOD POST

**Uses:** Std. MGS Guardrail Post  
Std. Legacy W-Beam Guardrail Post  

**NOTE:** For MGS Long Post, L=9 ft [2745]

### STANDARD MGS STEEL POST

**Uses:** Std. MGS Guardrail Post  
Std. Legacy W-Beam Guardrail Post  
MGS Transitions A-D, post T7-T12  

**NOTE:** For MGS Long Post, L=9 ft [2745]
**PLASTIC COMPOSITE BLOCKOUTS**

One piece plastic composite blocks which have been crash tested to MASH, have FHWA Eligibility or Acceptance Letters and are of the same overall dimensions shown herein, may be substituted for wood blocks with steel posts only. Provide routing in blocks to prevent rotation on post. Attach reflective tabs to composite blockouts by pre-drilling blockouts and using three #8 Screws 1 1/4" [32] long.

**REFLECTIVE TAB**

Attach to blockout every 25 ft [7.6 m] of guardrail.
MGS FABRICATION STANDARDS

ATTENTION!

EASE HOLE from the TRAFFIC SIDE FACE, RECEIVE BOLTS FROM
ARE THREADED TO ENSURE HOLES LOCATIONS ONLY,
THESE THREE

WELD THIS EDGE TO

Note: Units shown in brackets [ ] are metric and are in millimeters (mm) unless other units are shown.

WBW
JULY 2018

1 1/2'' [38]

1'- 0 1/2''

1/4'' [6]

1/4'' [6]

1/4'' [6]

1/4'' [6]

11/8'' [22]

10 1/2''

23 1/2'' [60]

10 1/2''

23 1/2'' [60]

10 1/2''

23 1/2'' [60]

10 1/2''

23 1/2'' [60]

11/8'' [22]

10 1/2''

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10 1/2''

23 1/2'' [60]

11/8'' [22]

10 1/2''

23 1/2'' [60]

10 1/2''

23 1/2'' [60]
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<th>DESCRIPTION</th>
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<tr>
<td>c1</td>
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<td>LOWER ANGLE PLATE</td>
<td>3/8&quot; [10] A36 PLATE</td>
</tr>
<tr>
<td>c2</td>
<td>1</td>
<td>GUSSET</td>
<td>1/4&quot; [6] A36 PLATE</td>
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</table>

**LOWER ANGLE ASSEMBLY (LEFT HAND TRANSITION)**

**LOWER ANGLE ASSEMBLY (RIGHT HAND TRANSITION)**

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Note: Units shown in brackets [ ] are metric and are in millimeters (mm) unless other units are shown.
WELDING INSTRUCTIONS:


(C) Weld rectangular and triangular cover plates together with a full penetration groove weld.

GENERAL NOTES

1. Provide steel in accordance with ASTM A36.
2. Weld components with E60 rod.
3. Galvanize in accordance with the Standard Specifications for Road and Bridge Construction.
Note: Units shown in brackets [ ] are metric and are in millimeters (mm) unless other units are shown.

STIFFENER #1 - 1 EACH

STIFFENER #2 - 1 EACH

STIFFENER #3 - 4 EACH

STIFFENER #4 - 1 EACH

STIFFENER #5 - 1 EACH

STIFFENER #6 - 1 EACH

STIFFENER #7 - 1 EACH

STIFFENER #8 - 1 EACH

STIFFENER #9 - 1 EACH

STIFFENER #10 - 1 EACH

STIFFENER #3 - 4 EACH

SEE NOTES ON PREVIOUS SHEET
ELEVATION VIEW (BACK SIDE)

LEFT HAND SINGLE SLOPE CONNECTION PLATE

CONCRETE BARRIER SIDE → THRIE BEAM SIDE

ELEVATION VIEW (BACK SIDE)

RIGHT HAND SINGLE SLOPE CONNECTION PLATE

THRIE BEAM SIDE → CONCRETE BARRIER SIDE

BACKING PLATE

Install on back side of concrete barrier.

TRANSITION D CONNECTOR PLATE

WELDING INSTRUCTIONS


3. Weld together cover plates P1 and P2 with full penetration groove weld.

NOTES


2. Galvanize connector plates in accordance with AASHTO M111.


Note: Units shown in brackets [ ] are metric and are in millimeters (mm) unless other units are shown.