



MIDWEST GUARDRAIL SYSTEM WITH NO BLOCKOUTS



SGR41

SHEET NO.

DATE:

1 of 2

7/7/2014

INTENDED USE

The Midwest Guardrail System (MGS) with standard post spacing and no blockouts should be used in locations where the maximum dynamic deflection of 35 15/16" [913] or less is acceptable and where a working width of 47 1/2" [1207] is provided. MGS should be anchored and terminated using a suitable guardrail end treatment that is accepted with a 31" [787] top mounting height. Guardrail sections measuring 300" [7620] long can be used in lieu of the 150" [3810] long sections. The MGS with no blockouts has been tested under Test Level 3 (TL-3) test designation 3-10 and 3-11 conditions and deemed acceptable according to the Manual for Assessing Safety Hardware (MASH) performance criteria.

COMPONENTS

Unit Length=150" [3810]

DESIGNATOR	COMPONENT	QUANTITY
FBB01	Guardrail post and splice bolts and nuts 1.4"	10
Or FBB02	Guardrail post and splice bolts and nuts 2"	10
PWE06	Wide-flange guardrail post	2
RWM04a	W-beam Rail	1
RWB01a	W-beam back-up plate	2

ACCEPTANCE

FHWA Eligibility Letter B-243, September 6, 2013

REFERENCES

Schrum, K.D., Lechtenberg, K.A., Bielenberg, R.W., Rosenbaugh, S.K., Faller, R.K., Reid, J.D., and Sicking, D.L., *Safety Performance Evaluation of the Non-Blocked Midwest Guardrail System (MGS)*, Final Report to Midwest States Regional Pooled Fund Program, Transportation Research Report No. TRP-03-262-12, Project No. TPF-5(193) Suppl. #33, Project Code RPPF-11-MGS-3, Midwest Roadside Safety Facility, University of Nebraska-Lincoln, January 24, 2013

CONTACT INFORMATION

Midwest Roadside Safety Facility
Nebraska Transportation Center
University of Nebraska-Lincoln
130 Whittier Research Center
2200 Vine Street
Lincoln, NE 68583-0853
(402) 472-0965
Email: mwrfsf@unl.edu
Website: <http://mwrfsf.unl.edu/>



MIDWEST GUARDRAIL SYSTEM WITH NO BLOCKOUTS



SGR41

SHEET NO.

DATE:

2 of 2

7/7/2014