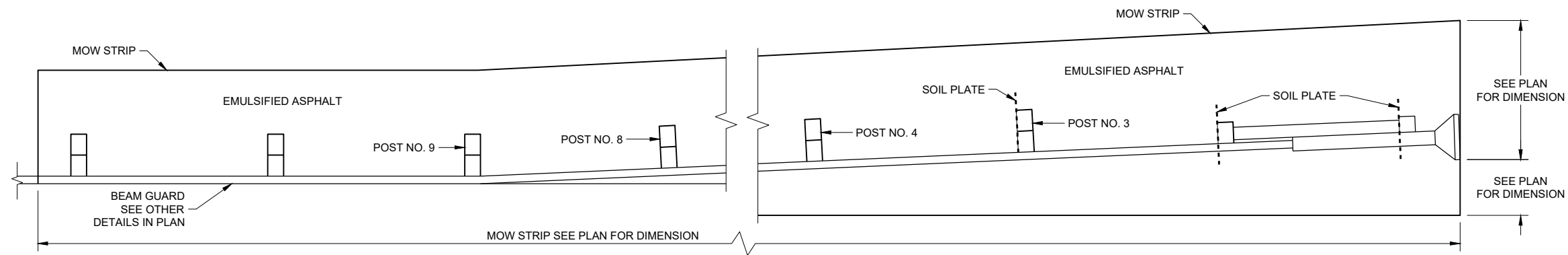




# SDD 14B28-a Guardrail Mow Strip

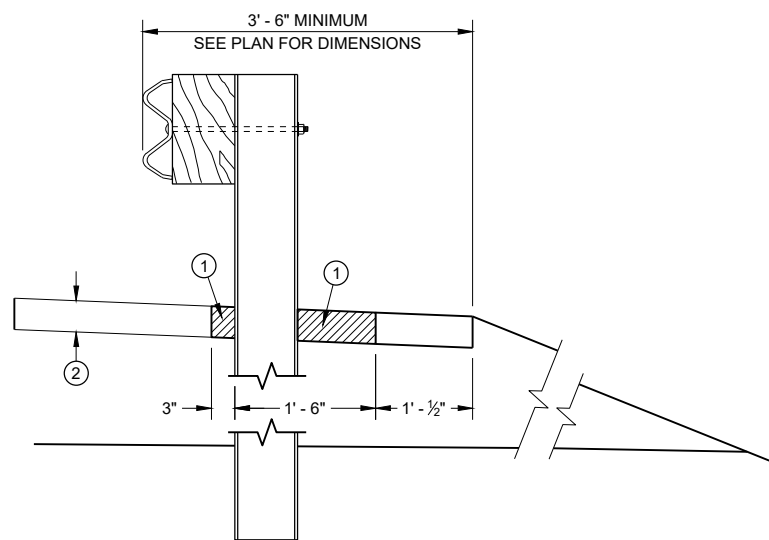


**PLAN VIEW**  
**MOW STRIP LAYOUT FOR ENERGY ABSORBING TERMINAL**

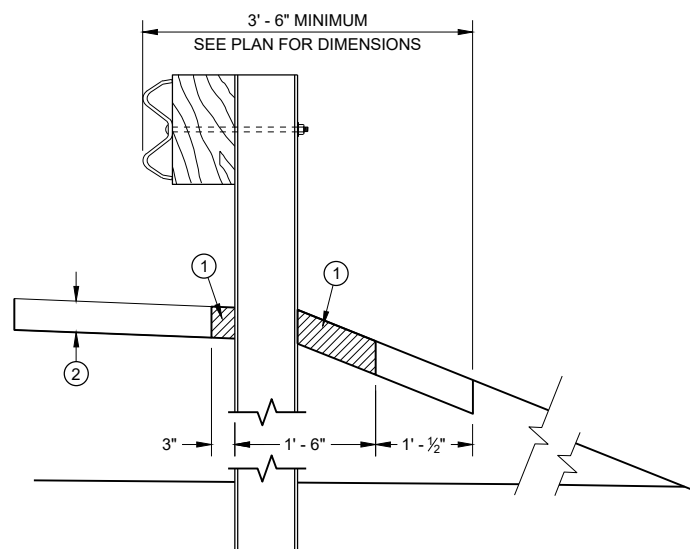
### GENERAL NOTES

ONLY USE STEEL POSTS IN CONCRETE AND ASPHALT MOW STRIPS.

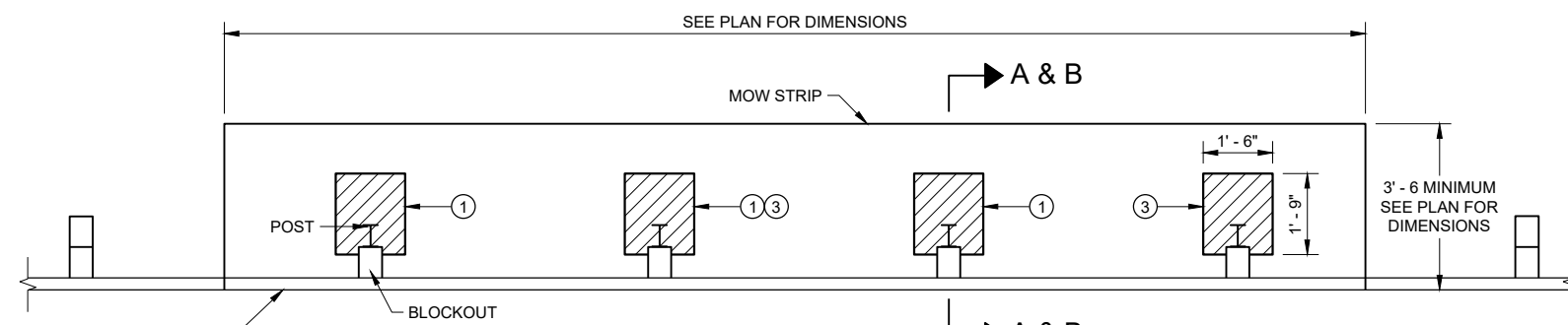
- ① CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.
- ② DEPTH OF MOW STRIP:  
ASPHALT - 4"  
CONCRETE - 4"  
EMULSIFIED ASPHALT - 1" OR LESS
- ③ FOR EMULSIFIED ASPHALT, MOW STRIP STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS)



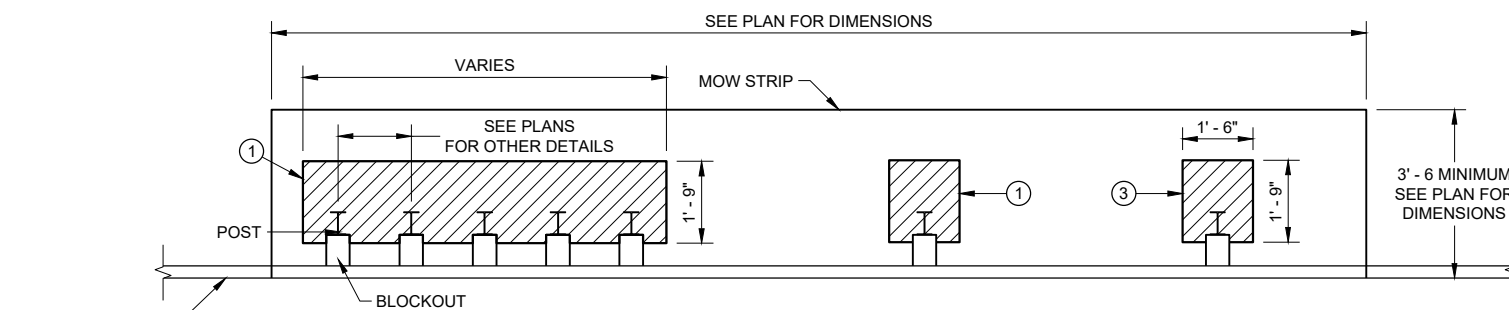
**SECTION A - A**



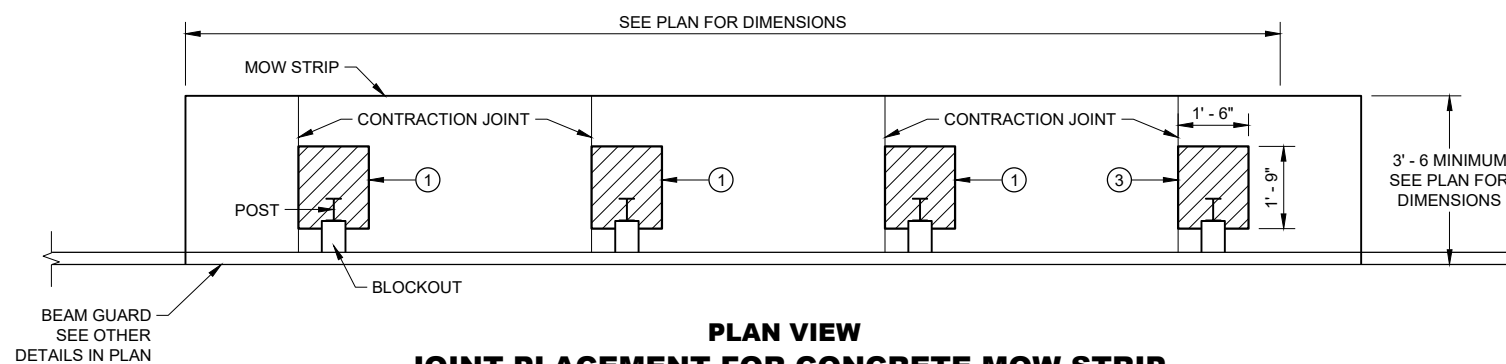
**SECTION B - B**



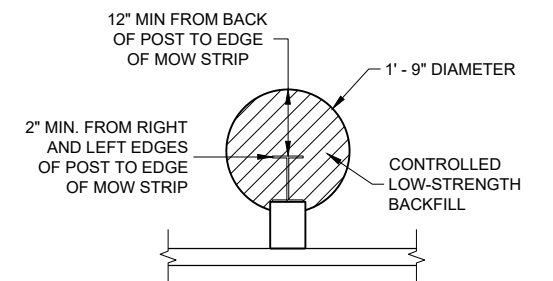
**PLAN VIEW**  
**MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT**



**PLAN VIEW**  
**MOW STRIP FOR TIGHT SPACING LAYOUT**



**PLAN VIEW**  
**JOINT PLACEMENT FOR CONCRETE MOW STRIP**



**ALTERNATIVE HMA**  
**MOW STRIP DESIGN**

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SDD 14B28 - 04a

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**GUARDRAIL MOW STRIP**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



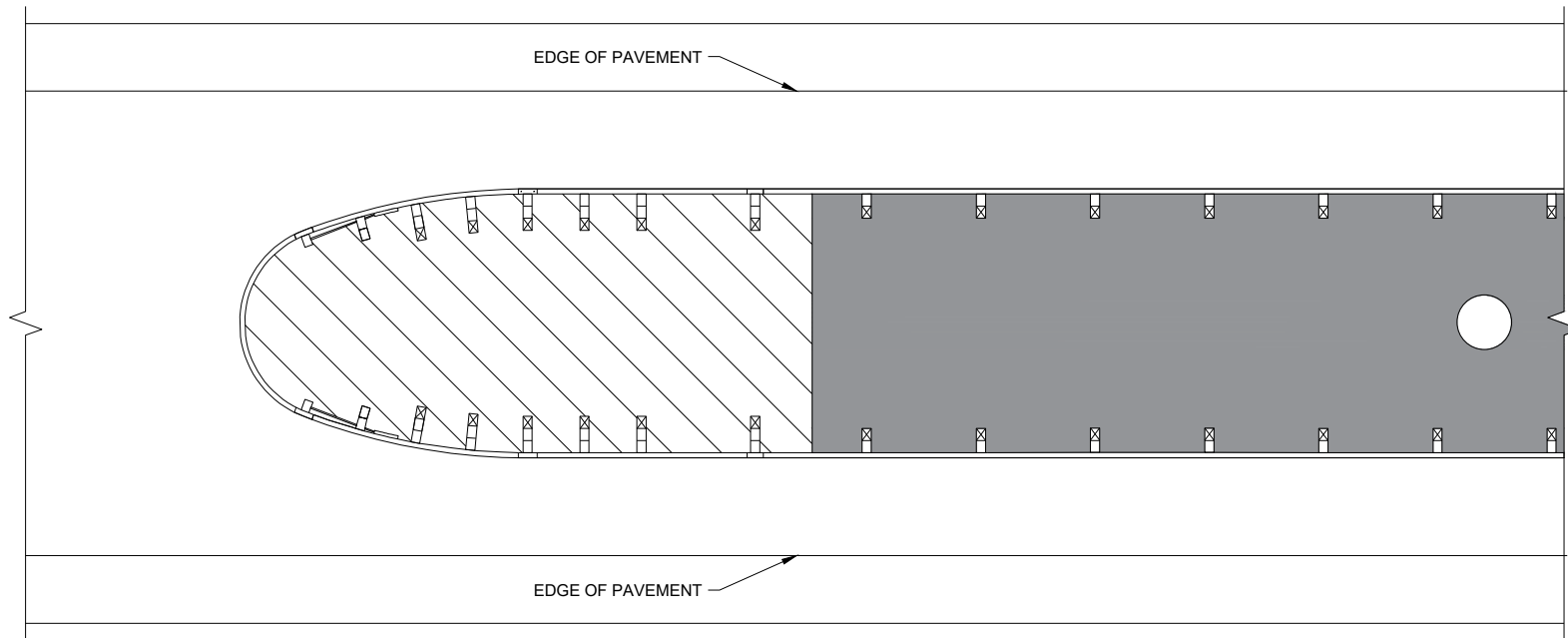
# SDD 14B28-b Guardrail Mow Strip

### LEGEND

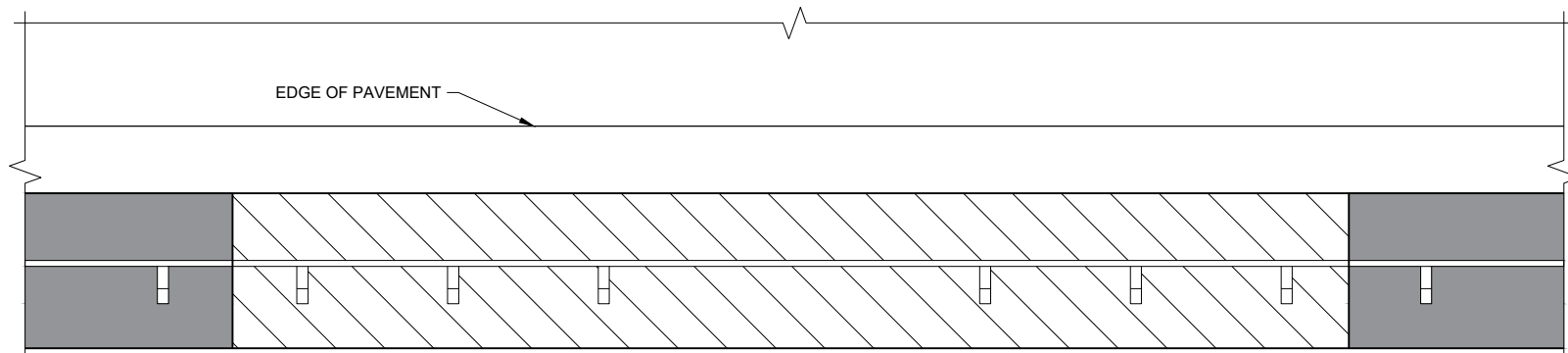
-  CONCRETE, ASPHALT, OR EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)
-  EMULSIFIED ASPHALT MOW STRIP (SEE OTHER DETAILS)

### GENERAL NOTES

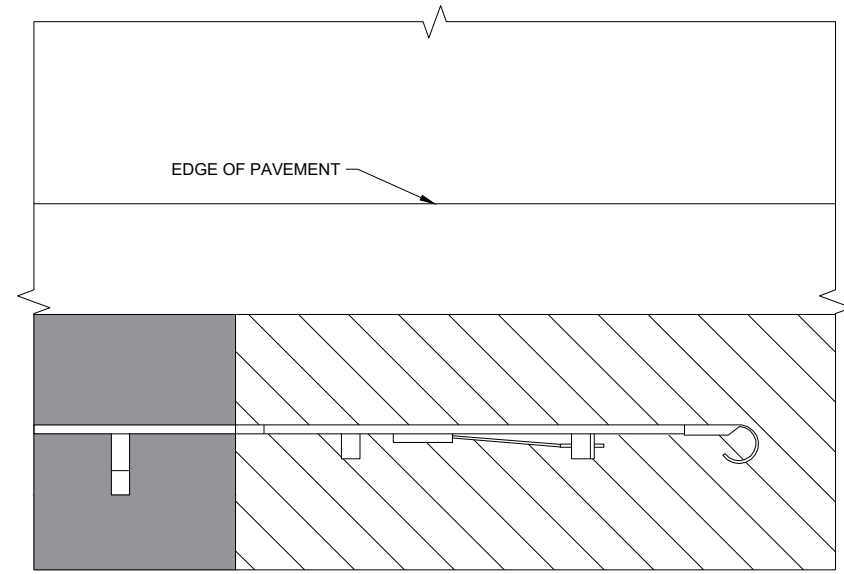
EXISTING THRIE BEAM BULLNOSES MAY HAVE WOOD POSTS. NEW THRIE BEAM BULLNOSE WILL HAVE STEEL POSTS.



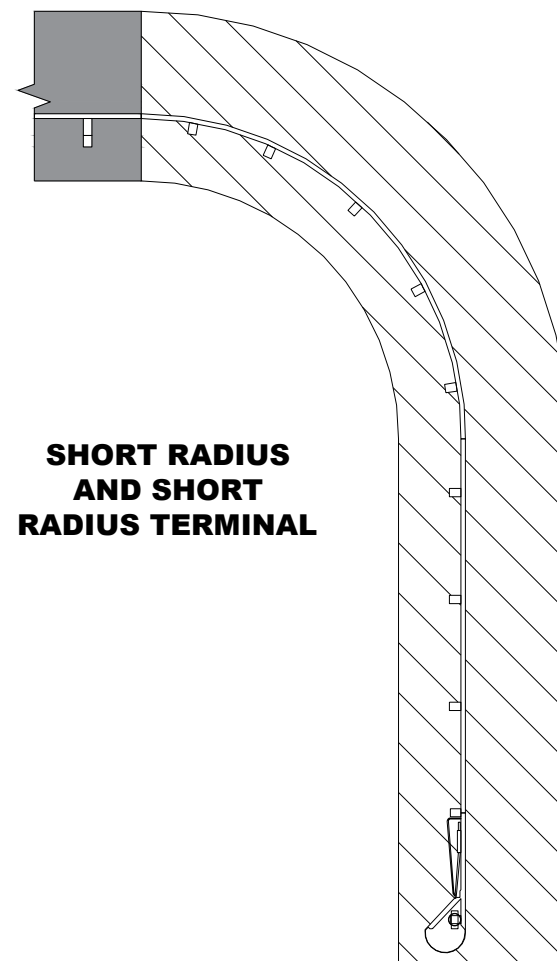
**THRIE BEAM BULLNOSE**



**LONG - SPAN**



**TYPE 2 TERMINAL**



**SHORT RADIUS  
AND SHORT  
RADIUS TERMINAL**

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SDD 14B28 - 04b

SDD 14B28 - 04b

<b>GUARDRAIL MOW STRIP</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED August 2020 DATE	/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

*Guardrail Mow Strip***References**[Standard Spec 614](#)[FDM 11-45-30](#)

FHWA Memo W-Beam Guardrail Installations in Rock and in Mowing Strips March 10, 2004

MwRSF Report TRP-03-119-03

TTI report 0-4162-2

TTI report 608551-01-5

**Bid items associated with this drawing:**

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
614.0115	Anchorage for Steel Plate Beam Guard Type 2 .....	EACH
614.0200	Steel Thrie Beam Structure Approach .....	LF
614.0220	Steel Thrie Beam Bullnose Terminal .....	EACH
614.0230	Steel Thrie Beam .....	LF
614.0305	Steel Plate Beam Guard Class A .....	LF
614.0340	Steel Plate Beam Guard Over Low-Fill Culverts Class A .....	LF
614.0345	Steel Plate Beam Guard Short Radius .....	LF
614.0370	Steel Plate Beam Guard Energy Absorbing Terminal .....	EACH
614.0390	Steel Plate Beam Guard Short Radius Terminal .....	EACH
614.0395 – 0399	Guardrail Mow Strip (type) .....	SY
614.0510	Guardrail Stiffened NW .....	LF
614.0515	Guardrail Stiffened LHW .....	LF
614.2300	MGS Guardrail 3 .....	LF
614.2310	MGS Guardrail 3 HS.....	LF
614.2320	MGS Guardrail 3 QS.....	LF
614.2330	MGS Guardrail 3 K .....	LF
614.2340	MGS Guardrail 3 L.....	LF
614.2350	MGS Guardrail Short Radius .....	LF
614.2500	MGS Thrie Beam Transition.....	LF
614.2610	MGS Guardrail Terminal EAT .....	EACH
614.2620	MGS Guardrail Short Radius Terminal.....	EACH
614.2630	MGS Guardrail Terminal Type 2 .....	EACH
614.8010	Anchor Post Assemblies Top Mount .....	EACH

**Standardized Special Provisions associated with this drawing:**

<u>STSP NUMBER</u>	<u>TITLE</u>
NONE	

**Other SDDs associated with this drawing:**[SDD14B15](#) Steel Plate Beam Guard, Class "A" Installation and Elements[SDD14B18](#) Steel Plate Beam Guard Class "A"[SDD14B20](#) Steel Thrie Beam Structure Approach[SDD14B24](#) Steel Plate Beam Guard, Energy Absorbing Terminal[SDD14B25](#) Steel Plate Beam Guard, Class "A", over Low Fill Culverts[SDD14B26](#) Steel Thrie Beam Bullnose Terminal[SDD14B27](#) Steel Plate Beam Guard, Short Radius Terminal[SDD14B42](#) Midwest Guardrail System[SDD14B43](#) Midwest Guardrail System Long Span (MGS L)[SDD14B44](#) Midwest Guardrail System Terminal (MGS)

[SDD14B45](#) Midwest Guardrail System Transitions (MGS)

[SDD14B47](#) Midwest Guardrail System Type 2 terminal (MGS)

[SDD14B51](#) Anchor Post Assembly Top Mounted

[SDD14B53](#) Short Radius MGS

**Design Notes:**

Semi-rigid barrier systems use post rotation to absorb impact energy. Pinning the post into position (e.g. encasing within asphalt or concrete, placing rip rap next to the posts...) will make it more likely that the barrier system will not function as intended. Mow strips or concrete curb and gutter can be used to control erosion and other maintenance concerns near MGS.

The use of mow strips and curb and gutter should be avoided near semi-rigid barrier systems. However, mow strips or curb and gutter can be used if there are drainage or erosion concerns at a particular location or segment of roadway where standard MGS is used. For non-MGS beam guard mow strips and certain combinations of curb with specially designed beam may be used. Mow strips can be used with thrie beam bullnoses, thrie beam transitions to rigid barriers, and short radius system.

Discuss with regional or local maintenance staff the need for mow strips or curb and gutter.

Document in DRS when other items can prevent post rotation are being installed near posts.

Mow strip details presented are for semi-rigid barriers or semi-rigid barrier end terminals only.

Based on recent crash testing, wood post cannot be used in concrete or asphalt mow strips.

**Contact Person:**

Erik Emerson (608) 266-2842