SDD 14B44-a Midwest Guardrail System (MGS) Energy Absorbing Terminal



- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED
- © DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION
- D ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.
- E HARDWARE MAY VARY BETWEEN MANUFACTURER SEE MANUFACTURER'S DRAWING FOR INFORMATION.
- F DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST



2' - 0" TO 3' - 0" VAR.

POST BOLT

(TYP.)

HINGE POINT

(3)

-(10) OR (11)

SLOPE 10:1 -

OR FLATTER

3 ½" HOLES



SECTION C - C **TYPICAL AT POST NOS. 3 - 9**



(SEE OTHER

SECTION B - B TYPICAL AT POST NO. 2*

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BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
1	UPPER POST NO. 1 6" X 6" TUBE
2	LOWER POST NO. 1
3	WOOD CRT
4	WOOD BLOCKOUT
5	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(1)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	IMPACT HEAD
(13)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
(14)	SOIL PLATE
(15)	UPPER POST NO. 2
(16)	LOWER POST NO. 2

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- 04b SDD14B44

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 14B44-c Midwest Guardrail System (MGS) Energy Absorbing Terminal

SDD 14B44 - 04c

References:

<u>CMM 6-26</u> <u>FDM 11-45-30</u> AASHTO Roadside Design Guide Standard Spec 614

Bid items associated with this drawing:

DESCRIPTION	<u>UNIT</u>
Barrier System Grading Shaping Finishing	EACH
Salvaged Rail	LF
Salvaged Guardrail End Treatments	EACH
Salvaged (component)	EACH
MGS Guardrail Temporary	LF
MGS Guardrail Temporary Thrie Beam Transition	LF
MGS Guardrail Temporary Terminal EAT	EACH
MGS Guardrail 3	LF
MGS Guardrail 3 HS	LF
MGS Guardrail 3 QS	LF
MGS Guardrail 3 K	LF
MGS Guardrail 3 L	LF
MGS Thrie Beam Transition	LF
MGS Guardrail Terminal EAT	EACH
MGS Guardrail Terminal Type 2	EACH
	DESCRIPTION Barrier System Grading Shaping Finishing

Standardized Special Provisions associated with this drawing:

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

Other SDDs associated with this drawing:

Concrete Curb, Concrete Curb & Gutter and Ties
Mow Strip Detail
Midwest Guardrail System
Midwest Guardrail System Long Span (MGS L)
Midwest Guardrail System Terminal (MGS)
Midwest Guardrail System Transitions (MGS)
Midwest Guardrail System Type 2 Terminal (MGS)

Design Notes:

Review drainage and grading near MGS EAT early in the scoping or design process. Additional right of way may be needed to accommodate grading, and drainage near MGS EAT.

Downturned ends are no longer considered an acceptable end treatment. Contact BPD to install a downturned end treatment (see <u>FDM 11-45-30.5.4</u>).

Contact Person:

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