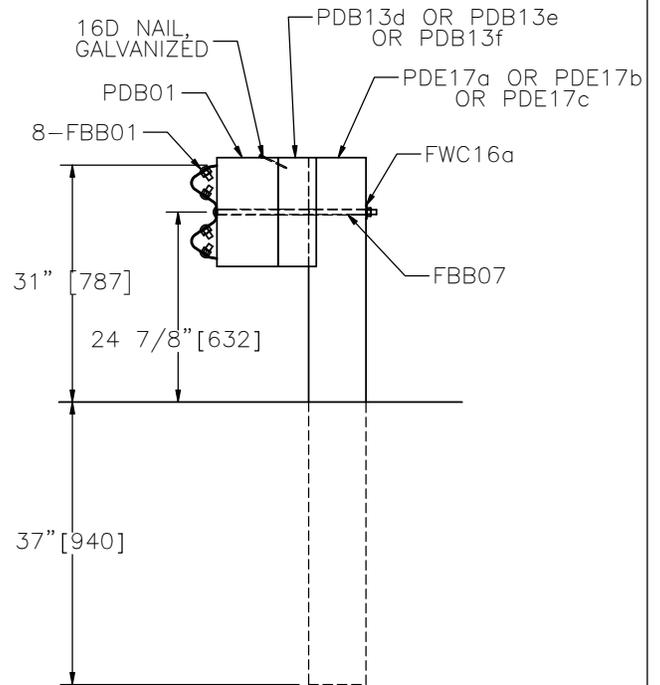


SECTION A-A
SINGLE BLOCKOUT OPTION
SGR28a-c



SECTION A-A
BUILT-UP BLOCKOUT OPTION
SGR28d-f

POST	BLOCKOUT OPTION	
	SINGLE	BUILT-UP
PDE17a	PDB13a	PDB01 + PDB13d
PDE17b	PDB13b	PDB01 + PDB13e
PDE17c	PDB13c	PDB01 + PDB13f

MGS GUARDRAIL SYSTEM FOR USE WITH ROUND POSTS



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INTENDED USE

Midwest Guardrail System (MGS) for use with Round Posts at standard post spacing (SGR28) is a non-proprietary system and is to be used in locations where the maximum deflection of 60" [1524] is acceptable and where a working width of 60" [1524] is provided. MGS should be anchored and terminated using a suitable guardrail end treatment that is approved for a 31" [787] top mounting height. MGS guardrail for use with round posts can be used with Douglas Fir (PDE17a), Ponderosa Pine (PDE17b), or Southern Yellow Pine (PDE17c) round wood posts. The timber blockout may be the same timber species as those furnished for the wood posts, but is not required. Midwest Guardrail System for use with Round Posts has passed the criteria for TL-3 NCHRP 350 acceptance.

COMPONENTS

Unit Length 12'-6" [3810]

DESIGNATOR	COMPONENT	SYSTEM	NUMBER
FBB01	Guardrail splice bolts and nuts	a-f	8
FBB07	Guardrail post bolts and nuts	a-f	2
FWC16a	Round Washer	a-f	2
PDB01	W-Beam Timber Blockout	d-f	2
PDB13d-f	Routed Timber Blockout	d-f	2
PDB13a-c	Routed Timber Blockout	a-c	2
PDE17a-c	Round Wood Post	a-f	2
RMW04a	W-Beam Rail	a-f	1
-	16D nail, galvanized	d-f	2

ACCEPTANCE

FHWA Acceptance B-175, June 25, 2008.

REFERENCES

Hascall, J.A., Faller, R.K., Reid, J.D., and Sicking, D.L., *Investigating the Use of Small-Diameter Softwood as Guardrail Posts (Dynamic Test Results)*, Final Report to the Forest Products Laboratory, Transportation Research Report No. TRP-03-179-07, Project No. 25-1112-0024-001, Midwest Roadside Safety Facility, University of Nebraska-Lincoln, March 28, 2007.

Faller, R.K., Reid, J.D., Kretschmann, D.E., Hascall, J.A., and Sicking, D.L., Midwest Guardrail System with Round Timber Posts, Paper No. 09-0547, Submitted for Presentation and Publication at the Annual Meeting of the Transportation Research Board, TRB AFB20 Committee on Roadside Safety Design, Transportation Research Board, Washington D.C., January 2009.

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REFERENCES

Kretschmann, D.E., Faller, R.K., Hascall, J.A., Reid, J.D., Rohde, J.R., Shilts, D., and Nelson, T., Investigating the Use of Small-Diameter Softwood as Guardrail Posts, Research Paper FPL-RP-640, Madison, Wisconsin, U.S. Department of Agriculture, Forest Service, Forest Products Laboratory, July 2007, 23 p.

Kretschmann, D.E., Faller, R.K., Reid, J.D., Hascall, J.A., Sicking, D.L., and Rohde, J.R., Small-Diameter Roundwood, Strong-Post W-Beam Guardrail Systems, Proceedings of the 9th World Conference on Timber Engineering (WCTE), August 6-10, 2006, Portland, Oregon.

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