



SYSTEM	POST	E
SSF20a-b	PDP20	36 [920]
SSF20a-b	PDP22	40 [1000]
SSF20a	PDP23	40 [1000]
SSF20a	PDP24	48 [1200]

DIRECT BURIAL WOOD POST

SSF20a-b

SHEET NO.

DATE:

1 OF 2

2006

INTENDED USE

The direct burial wood small sign support system consists of a rectangular wood post buried directly in soil. These successfully crash tested systems can be used in both weak and strong soils and as single-post (SSF20a) or double-post (SSF20b) sign support systems where both posts are within a 2100 mm span. These systems have been judged to meet the requirements of the 1985 AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals*.

COMPONENTS

The direct burial wood post sign support system has only one component, the sign post. Four different size sign posts can be used (PDP20, PDP22, PDP23 and PDP24). With the exception of PDP20, each post has two weakening holes; one hole located 100 mm and the other located 460 mm above the ground. Only PDP20 and PDP22 may be used in the two post system (SSF20b) where both posts are within a 2100 mm span. The larger posts may be used in dual-post systems if the posts are more than 2100 mm apart. These holes ensure proper breakaway performance and limit the stub height to less than 100 mm.

REFERENCES

- R. L. Stoughton, J. R. Stoker and E. F. Nordlin, "Vehicle Impact Tests Breakaway Wood Supports for Dual-Support Roadside Signs," Transportation Research Record 868, Transportation Research Board, Washington, D.C., 1982.
- L. A. Staron, "Breakaway Sign Supports," Geometric and Roadside Design Acceptance Letter SS-25, Federal Highway Administration, June 4, 1991.
- L. A. Staron, "Breakaway Sign Supports," Geometric and Roadside Design Acceptance Lener SS-32, Federal Highway Admiitration, October 28, 1992.
- L. A. Staron, "Breakaway Sign Supports," Geometric and Roadside Design Acceptance Letter SS-36, Federal Highway Administration, September 3, 1993.
- L. A. Staron, "Pennsylvania Breakaway Wood Sign," Geometric and Roadside Design Acceptance Letter SS-45, Federal Highway Administration, Mayll, 1994.
- L. A. Staron, "Breakaway Sign Supports - Unmodified Cedar," Geometric and Roadside Design Acceptance Letter SS-46, Federal Highway Administration, June 17, 1994.
- S. I. Sillan, "5-inch by 5-inch sign post," Geometric and Roadside Design Acceptance Letter SS-50, Federal Highway Administration, November 8, 1994.

DIRECT BURIAL WOOD POST

SSF20a-b

SHEET NO.

DATE

2 of 2