

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54-87 K-8258-01	2007	446	556

GENERAL NOTES:

Overlay panels shall be fabricated with 1mm thick aluminum sheeting covered with high performance retroreflective sheeting. The application of sheeting shall be in the same manner as flat sheet signs. The application of legend and borders shall be in the same manner as direct applied process sign fabrication.

Before attaching overlay panels, remove all removable legend (if applicable) and flatten any protrusions on the sign face. The primary method for placement of overlay panels is to butt the panel edges together. An alternative method for placement of panels is to overlap the panel edges. If panels are overlapped, the overlap of panels shall be 25mm.

OVERLAY PANEL PLACEMENT:

When overlay panels are placed vertically, the first panel shall be placed at the end of the sign farthest from the roadway with the remaining panels placed in a manner proceeding towards the roadway edge of the sign. If panels are overlapped, the overlap edge shall face away from the roadway.

When overlay panels are placed horizontally, the first panel shall be placed along the bottom of the sign with the remaining panels placed in a manner proceeding to the top of the sign. If panels are overlapped, the overlap edge shall face toward the ground.

INSTALLATION OF OVERLAY PANELS:

A dome head front entry self-plugging expanding type rivet, 5mm in diameter shall be used to attach the overlay panel to the existing sign. The rivet shall be of the length recommended by the manufacturer for the combined thicknesses of the overlay panel(s), sign face, and where required the reinforced panel stiffeners. The rivets shall be ASTM B16 aluminum, Alloys 2017-F, 2117-F, or 2056-F.

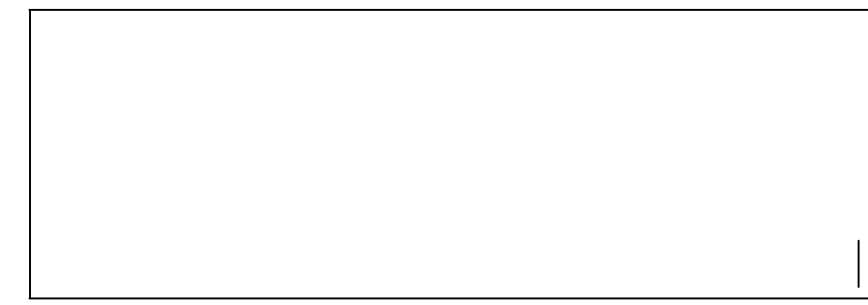
Panels should be fastened with rivets placed approximately 13mm from the edges and a maximum of 300mm apart. Rivets are to be placed in rows horizontally and vertically across the panel spaced a maximum of 600mm apart. NOTE: To prevent buckling, all riveting of panels shall start from the center and go outward and from the top to the bottom.

After all the rivets are set, the stems shall be trimmed flush with the rivet heads in a manner recommended by the manufacturer.

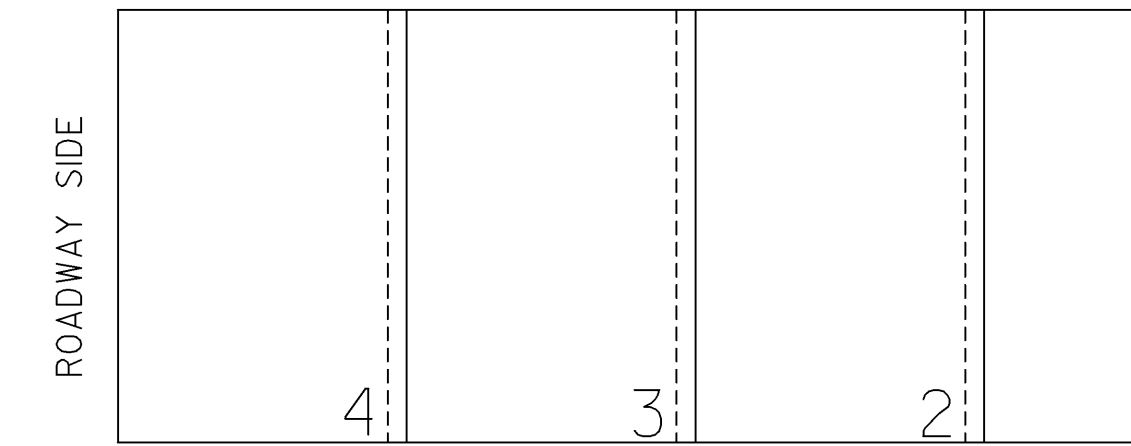
SIGN DETAILS:

See standard plan sheet TE590si for detailed specifications.

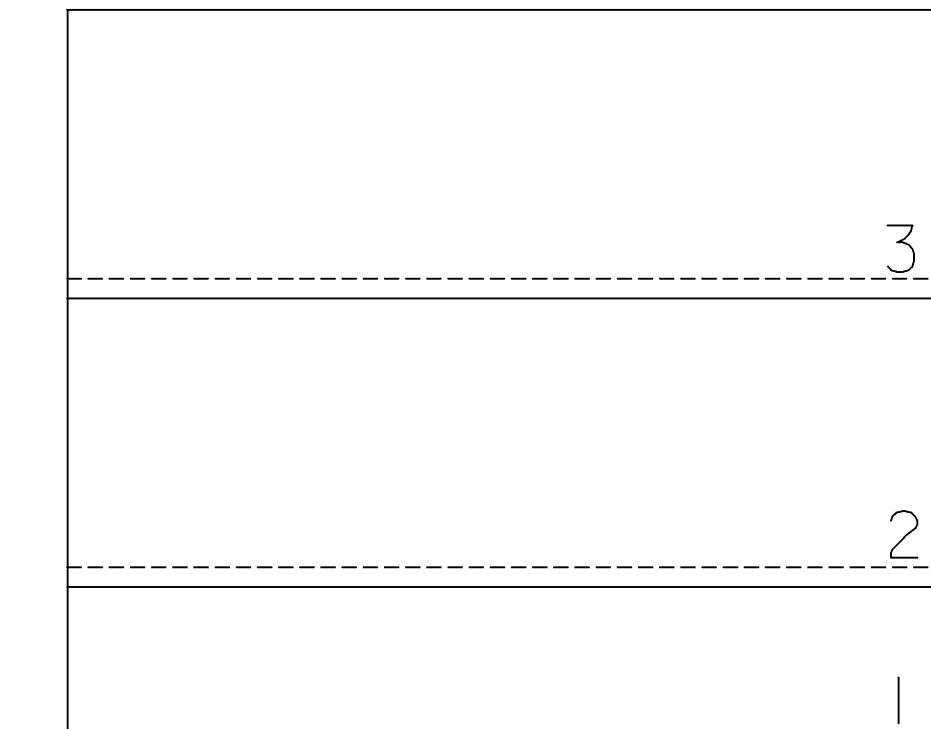
TYPICAL OVERLAY PANEL PLACEMENT
(Shown using alternate method, overlapping of panels)



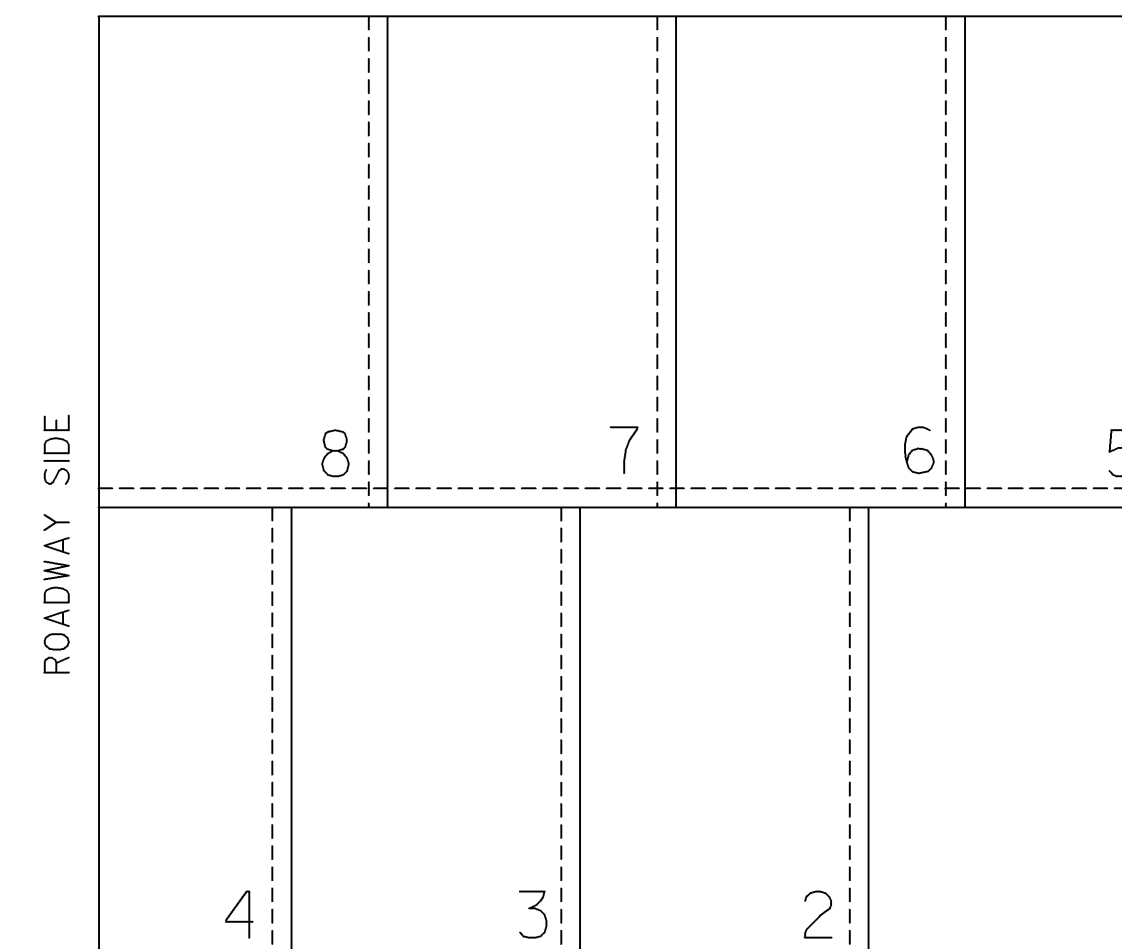
SINGLE PANEL:
Sign dimensions are equal to or less than 3.6 m by 1.2 m, either horizontal or vertical.



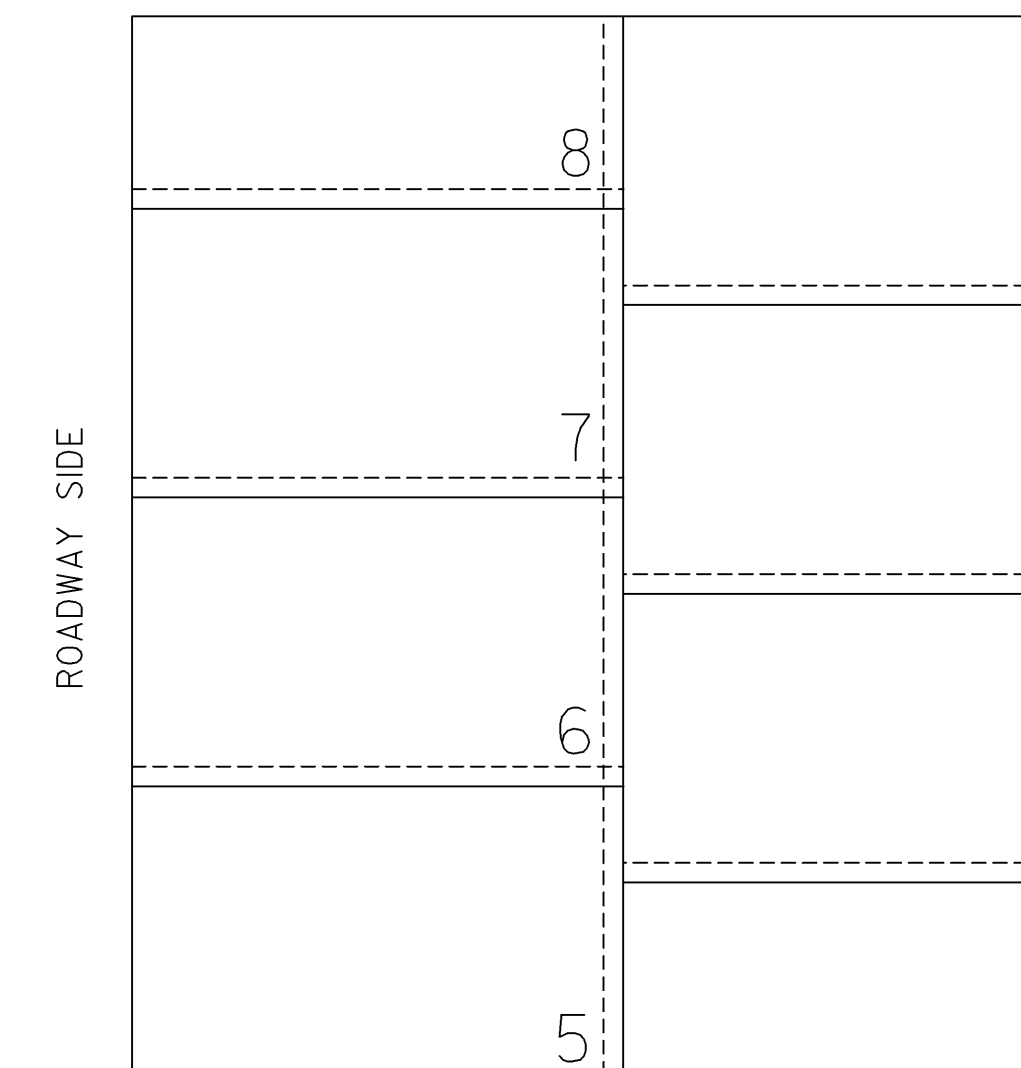
VERTICALLY PLACED PANELS:
Horizontal dimension is greater than 3.6 m. Place panels in numerical order.



HORIZONTALLY PLACED PANELS:
Horizontal dimension is equal to or less than 3.6 m. Place panels in numerical order.



VERTICALLY PLACED PANELS:
Horizontal and vertical dimensions are greater than 3.6 m. Vertical dimension is less than horizontal dimension. Place panels in numerical order.



HORIZONTALLY PLACED PANELS:
Horizontal and vertical dimensions are greater than 3.6 m. Horizontal dimension is less than vertical dimension. Place panels in numerical order.

Plotted By : @USERNAM@
 Plot File : @DGN@
 Plot Date : @SYTIME@

3				
2				
1				
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
DESIGN DETAILS
FOR SIGN OVERLAYS
(ALUMINUM PANELS)
 TE581si 07-01-03

FHWA APPROVAL	07-22-2003	APP'D	Steven A. Buckley
DESIGNED	BBB	DETAILED	DXG
DESIGN CK.	SAB	DETAIL CK.	BBB
		QUANTITIES	TRACED
		QUAN. CK.	TRACE CK.