

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0230-01	2003	65	73

9. WARNING LIGHTS ON SIGNS:

TYPE B HIGH INTENSITY LIGHTS SHALL BE USED ON ALL CONSTRUCTION WARNING ACTION SIGNS. ON ALL OTHER CONSTRUCTION WARNING SIGNS, TYPE B HIGH INTENSITY LIGHTS ARE TO BE USED AS DIRECTED BY THE ENGINEER.

THEY SHALL NOT BE INSTALLED ON SIGNS MOUNTED LESS THAN 1.5 m HIGH ON TEMPORARY SUPPORTS. THEY SHALL BE MAINTAINED SO THAT THEY ARE VISIBLE ON A SUNNY DAY FROM A DISTANCE OF 300 m WHEN VIEWED WITHOUT THE SUN DIRECTLY ON OR BEHIND THE DEVICE. IF A TYPE B LIGHT HAS A SEPARATE BATTERY CASE, THE BATTERY CASE SHALL BE MOUNTED NO HIGHER THAN 300 mm ABOVE THE GROUND AND MOUNTED BEHIND THE SIGN POST. FOR A TYPE B LIGHT, WHERE THE LENS IS MOUNTED TO THE TOP OF THE BATTERY CASE, THE TYPE B LIGHT (LENS AND BATTERY) SHALL BE MOUNTED AT THE TOP OF THE SIGN.

A diagram of a flag staff. A diamond-shaped flag is attached to a horizontal staff. Two lines extend from the top of the flag, each labeled "45°" with an arrow indicating the angle. The top line is labeled "FLAG STAFF" and the bottom line is labeled "FLAG".

BE 175 C
PREPARED 175 C
TO STOP 175 C

W20-7b
1200 mm x 1200 mm
(BLACK/ORANGE)

REDUCED SPEED  AHEAD	STD. SIZE	EXPWY/FREEWAY
	100 C	200 C
	100 C	200 C
	250 E	400 E
	100 D	200 D
R2-5e (BLACK/WHITE)	600 X 900	1200 X 1800

WORK ZONE		
	75 C	150 C
M4-20 (BLACK/ORANGE)	600 X 150	1200 X 300

3. CONFLICTING SIGNS AND SIGNS NOT IN USE:

4. TEMPORARY AND POST MOUNTED SIGNS:

1.8 m - 3.7 m

BOTTOM
OF SIGN

* 1.5 m MIN. FROM EDGE
OF ROADWAY SURFACE

ROADWAY

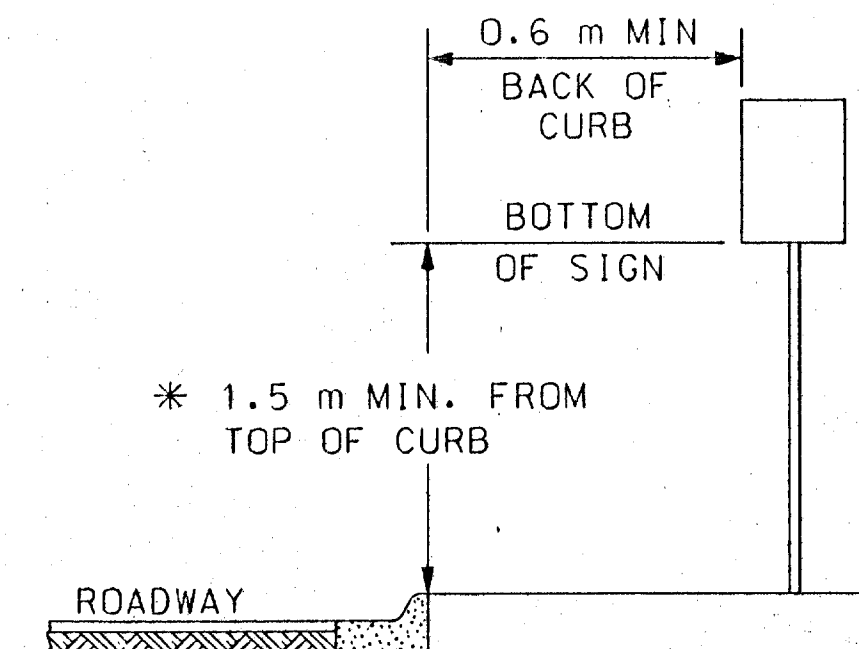
SHOULDER

0.6
m
MIN.

EDGE OF ROADWAY

EDGE OF PAVED SHOULDER

EDGE OF SHOULDER



ALL ORANGE SIGNS SHALL BE RETROREFLECTORIZED WITH FLOURESCENT ORANGE PRISMATIC GRADE SHEETING. ALL OTHER SIGNS SHALL BE RETROREFLECTORIZED WITH TYPE III HIGH PERFORMANCE SHEETING OF STANDARD COLORS.

ROLL-UP SIGNS MAY BE USED FOR TEMPORARY WARNING SIGNS. THEY MUST BE FLOURESCENT ORANGE PRISMATIC GRADE RETROREFLECTIVE SIGNS OF OPAQUE MATERIAL. MESH SIGNS ARE NOT ALLOWED.

THE R2-5E (REDUCED SPEED AHEAD) SHOULD BE USED ONLY IF THE ENGINEER DETERMINES THAT A REDUCED SPEED IS REQUIRED ON THE PROJECT.

THE M4-20 (WORK ZONE) PLAQUE SHALL BE PLACED ABOVE ALL SPEED LIMIT SIGNS, (R2-1), EXISTING AND TEMPORARY.

FOR SPEEDS OF 30 MPH OR LESS, THE W1-1(TURN) OR W1-3(REVERSE TURN) SHOULD BE USED. FOR SPEEDS OF 35 MPH OR MORE, THE W1-2(CURVE) OR W1-4(REVERSE CURVE) SHOULD BE USED. THE W13-1(MPH) IS TO BE ELIMINATED IF THE ADVISORY SPEED IS WITHIN 5 MPH OF THE SPEED LIMIT.

* NOTE:

- A. ON EXPRESSWAYS AND FREEWAYS THE DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE TOP OF THE NEAR EDGE OF THE ROADWAY SHALL BE AT LEAST 2.1 m.
- A. IN BUSINESS, COMMERCIAL, AND RESIDENTIAL DISTRICTS, THE DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE TOP OF THE NEAR EDGE OF THE TRAVEL WAY SHALL BE AT LEAST 2.1 m.
- B. LARGE SIGNS HAVING AN AREA EXCEEDING 5 SQUARE METERS THAT ARE INSTALLED ON MULTIPLE BREAKAWAY POSTS SHALL BE MOUNTED A MINIMUM OF 2.1 m ABOVE THE GROUND.
- C. THE HEIGHT TO THE BOTTOM OF THE SECONDARY SIGN MOUNTED BELOW ANOTHER SIGN MAY BE 0.3 m LESS THAN THE APPROPRIATE HEIGHT SPECIFIED ABOVE.

THE G20-2A(END ROAD WORK) SHOULD BE PLACED 150 m FROM THE END OF THE ACTUAL WORK AREA, NOT NECESSARILY AT THE EXTREME LIMITS OF THE PROJECT.

WHERE TWO WORK AREAS ARE LESS THAN 1.6 km APART IN RURAL AREAS OF 0.4 km APART IN URBAN AREAS, THE G20-2A(END ROAD WORK) FOR THE FIRST WORK AREA AND THE W20-1(ROAD WORK) FOR THE SECOND WORK AREA SHOULD BE ELIMINATED.

ADVANCE WARNING SIGN SPACING (IN METERS):

	A	B	C
URBAN (40 MPH OR LOWER)	30	30	30
URBAN (45 MPH OR HIGHER)	100	100	100
RURAL	150	150	150
EXPRESSWAY/FREEWAY	300	450	800

THE SPACING BETWEEN ANY SIGNS MAY BE ADJUSTED AS APPROVED BY THE ENGINEER IN ORDER TO MAXIMIZE VISIBILITY.

THE SPACING BETWEEN SIGNS SHALL BE NO LESS THAN 30 m, UNLESS DIRECTED BY THE ENGINEER.

Diagram illustrating the placement of a diamond-shaped advance warning sign for a narrow bridge. The sign is positioned on the shoulder, 0.6 m from the surface edge and 3.7 m from the roadway. The sign is 4 m high. The roadway is 4 m wide. The sign is labeled "ROADWAY" and "SHOULDER". The sign is labeled "SURFACE EDGE" and "ROADWAY". The sign is labeled "0.6 m" and "3.7 m". The sign is labeled "4 m" and "4 m". The sign is labeled "ROADWAY" and "SHOULDER".

(SEE NOTE 6 FOR ROLL-UP SIGNS OPTION)

HEIGHT AND LATERAL DIMENSIONS FOR SIGNS
MOUNTED ON SKIDS OR OTHER PORTABLE SUPPORTS

3	3-17-03	MODIFIED NOTES	M.H.	S.A.B.
2	9-26-02	MODIFIED NOTES	M.H.	S.A.B.
1	6-11-01	REDUCED MOUNTING HEIGHT	J.H.	S.A.B.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGNS

TE710SI		9/1/00	
FHWA APPROVAL 3-25-03		APP'D Michael P. McKenna	
DESIGNED L.E.R.	DETAILED B.A.H.	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.

Plotted By : USERNAME Thacher Bldg., 4th Floor
Plot File : DGN\$SPEC0000000000000000