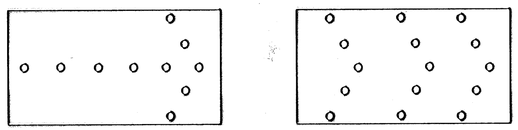
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	07 N-0047-93 STP-N 004(701)	1994	19	21

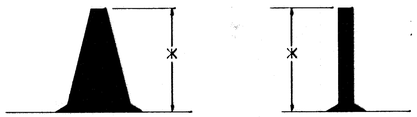
ARROW PANELS



FLASHING ARROW

SEQUENTIAL ARROW

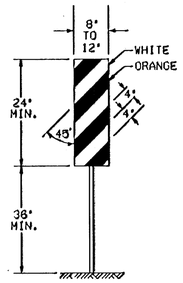
ORANGE CONES



X CONES SHALL HAVE A MINIMUM HEIGHT OF 28" WHEN USED ON INTERSTATE AND FREEWAYS. CONES WITH A MINIMUM HEIGHT OF 18" SHALL BE USED ON ALL OTHER CLASSES OF ROADWAYS.

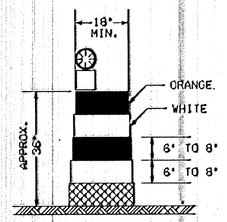
TRAFFIC CONES MAY BE USED FOR DAYTIME OPERATIONS ONLY. IN CERTAIN SITUATIONS, SUCH AS OPEN TRENCHES, THE ENGINEER MAY REQUIRE THAT CONES BE SUPPLEMENTED BY OTHER TRAFFIC CONTROL DEVICES.

VERTICAL PANEL



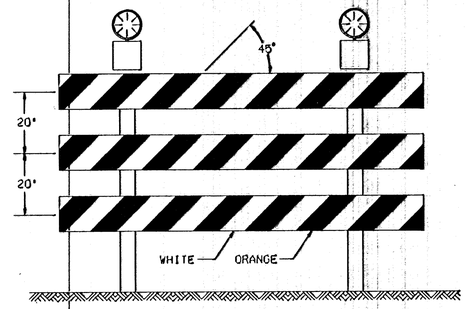
THE ENTIRE AREA OF VERTICAL PANELS SHALL BE FULLY REFLECTORIZED WITH TYPE II HIGH PERFORMANCE REFLECTIVE SHEETING.

NON-METALLIC REFLECTORIZED DRUM WITH LIGHT



DRUMS SHALL BE REFLECTORIZED FULL CIRCUMFERENCE WITH AT LEAST TWO ORANGE AND TWO WHITE 6" TO 8" WIDE STRIPES OF TYPE II HIGH PERFORMANCE REFLECTIVE SHEETING. ADDITIONAL ORANGE AND WHITE STRIPES MAY BE NON-REFLECTORIZED. IF THERE ARE NON-REFLECTIVE SPACES BETWEEN ADJACENT STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE.

TYPE III BARRICADE WITH LIGHTS



A MINIMUM OF TWO TYPE A LIGHTS SHALL BE USED AT EACH LOCATION WHERE A TYPE III BARRICADE OR BARRICADES ARE USED. A LIGHT SHALL BE MOUNTED ON THE OUTSIDE CORNER OF THE END BARRICADES WHEN MORE THAN ONE IS USED.

WARNING LIGHTS

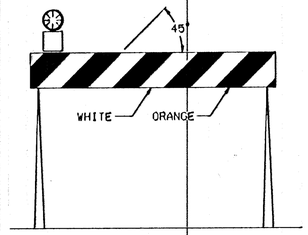
WARNING LIGHTS SHALL COMPLY WITH THE CURRENT ITE PURCHASE SPECIFICATIONS FOR FLASHING AND STEADY BURN WARNING LIGHTS. THE LENS SHALL BE A MINIMUM OF 7" IN DIAMETER.

WARNING LIGHTS USED ON INDIVIDUAL CHANNELIZING DEVICES SHALL BE TYPE A FLASHING. THOSE USED ON DEVICES PLACED IN SERIES SHALL BE TYPE C STEADY BURN, WITH THE EXCEPTION THAT WARNING LIGHTS ARE NOT TO BE USED ON REFLECTORIZED DRUMS PLACED IN SERIES.

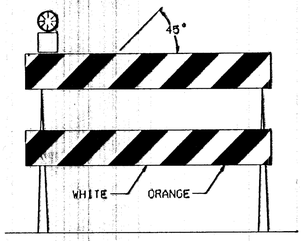
TYPE B HIGH INTENSITY LIGHTS ARE TO BE USED ON CONSTRUCTION WARNING SIGNS AS DIRECTED BY THE ENGINEER.

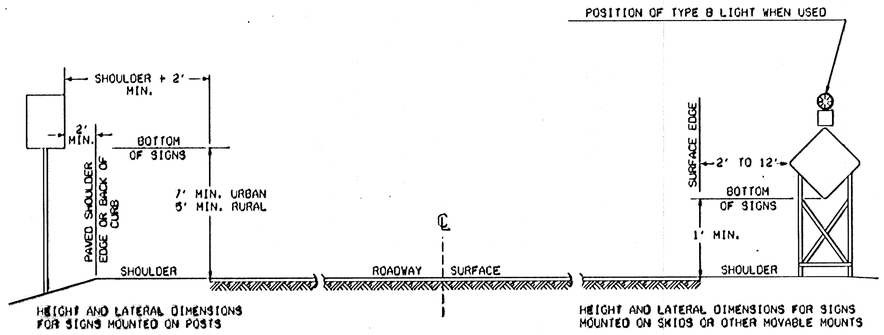
TYPE A LOW INTENSITY FLASHING WARNING LIGHTS AND TYPE C STEADY BURN WARNING LIGHTS SHALL BE MAINTAINED SO AS TO BE CAPABLE OF BEING VISIBLE ON A CLEAR NIGHT FROM A DISTANCE OF 3,000 FEET. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS SHALL BE MAINTAINED SO AS TO BE CAPABLE OF BEING VISIBLE ON A SUNNY DAY FROM A DISTANCE OF 1000 FEET WHEN VIEWED WITHOUT THE SUN DIRECTLY ON OR BEHIND THE DEVICE.

TYPE I BARRICADE WITH LIGHT



TYPE II BARRICADE WITH LIGHT





SUPPORTS USED FOR MOUNTING SIGNS OR DEVICES FOR TEMPORARY CONDITIONS SHALL BE CONSTRUCTED TO YIELD UPON IMPACT. ADDITIONAL SUPPORTS MAY BE PLACED ON THE BACK SIDE OF SIGNS IN THE FORM OF BRACING FOR RESISTING WIND CURRENTS. GUY WIRES AND TIE-DOWNS WILL NOT BE ALLOWED.

NOTE:

ALL TRAFFIC CONTROL DEVICES, THEIR INSTALLATION AND MAINTENANCE SHALL COMPLY WITH THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. WHENEVER THIS STANDARD CONFLICTS WITH THE MANUAL, THIS STANDARD SHALL GOVERN.

CHANNELIZING DEVICES SHALL BE PLACED FOR OPTIMUM VISIBILITY, NORMALLY AT RIGHT ANGLES TO THE TRAFFIC FLOW.

CHANNELIZING DEVICES PLACED ALONG SHOULDER EDGES OR IN DROPOFFS SHALL HAVE A MINIMUM OF 24" FROM THE TOP OF THE CHANNELIZING DEVICE TO THE TOP OF THE PAVEMENT.

ALL TRANSITION TAPERS AND CROSSOVERS SHALL BE MARKED WITH SOLID 4" WIDE PAVEMENT MARKING TAPE.

PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

ALL PERMANENT AND TEMPORARY SIGNING WHICH IS IN CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE REMOVED OR COVERED AS DIRECTED BY THE ENGINEER.

WHERE PERMANENT OBJECT MARKERS ARE NOT ALREADY IN PLACE, ORANGE AND WHITE VERTICAL PANELS SHALL BE ERECTED TO DELINEATE EXPOSED BRIDGE ENDS.

TRAFFIC CONTROL PLANS THAT ARE ANTICIPATED TO REMAIN IN PLACE LESS THAN FOUR DAYS ARE CONSIDERED "TEMPORARY". AS DIRECTED BY THE ENGINEER, TRAFFIC CONTROL PLANS OF LONGER DURATION WILL REQUIRE THAT ALL SIGNS BE POST MOUNTED, ALL CONFLICTING PAVEMENT MARKING BE REMOVED, AND THAT EDGE LINES ALONG CHANNELIZING DEVICES BE MARKED.

EXISTING SIGNS TO BE REMOVED AND RESET SHALL BE SUBSIDIARY TO OTHER BID ITEMS.

BARRICADES

	TYPE I	TYPE II	TYPE III
WIDTH OF RAIL	8" MIN-12" MAX	8" MIN-12" MAX	8" MIN-12" MAX
LENGTH OF RAIL	2 FT. MIN	2 FT. MIN	4 FT. MIN
WIDTH OF STRIPES	6 IN.	6 IN.	6 IN.
HEIGHT	3 FT. MIN	3 FT. MIN	5 FT. MIN
NO. OF REFL. RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	*

* 3 IF FACING TRAFFIC IN ONE DIRECTION, 6 IF BOTH DIRECTIONS.

FOR WOODEN BARRICADES, NOMINAL LUMBER DIMENSIONS WILL BE SATISFACTORY.

FOR RAILS LESS THAN THREE FEET LONG, FOUR INCH WIDE STRIPES SHALL BE USED.

THE ENTIRE AREA OF BARRICADE RAILS SHALL BE FULLY REFLECTORIZED WITH TYPE II HIGH PERFORMANCE REFLECTIVE SHEETING.

BARRICADES INTENDED FOR USE ON ROADWAYS WITH SPEED LIMITS OF 55 MPH OR MORE SHALL HAVE A MINIMUM OF 270 SQUARE INCHES OF REFLECTIVE AREA FACING TRAFFIC.

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION, AND TOWARD THE CENTER OF THE ROADWAY AT ROAD CLOSURES.

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

DESIGN DETAILS FOR BARRICADES, CHANNELIZING DEVICES AND SIGN MOUNTING LOCATIONS

TE752 10/13/93

FHWA Approval	6-16-93		APP'D	Hedda A. Buckley	
DESIGNED PR	DETAILED PR		QUANTITIES		TRACED
DESIGN CK. AFT	DETAIL CK. AFT		QUAL CK.		TRACE CK.