

TAPER FORMULA:

$L = S \times W$ for speeds of 45 MPH or more.

$L = \frac{WS^2}{60}$ for speeds of 40 MPH or less.

Where L = Minimum length of taper

S = Numerical value of posted speed limit prior to work.

W = Width of offset.

END
CONSTRUCTION
G20-2
60" x 24"

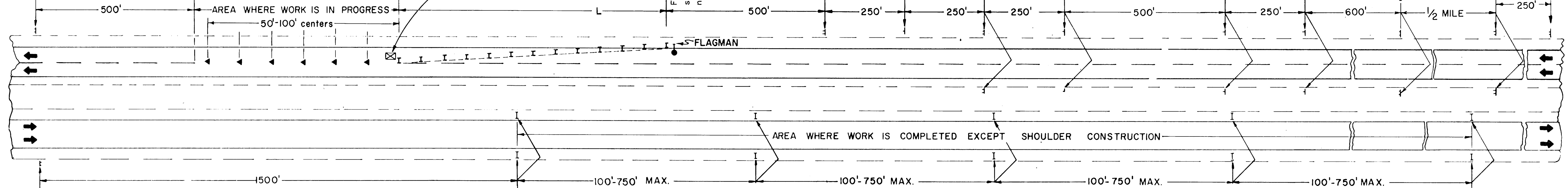
Install orange Traffic Cones at Approx. 50' to 100' centers in work areas. They shall be a minimum of 18" inches in height with a broadened base and may be made of various materials to withstand impact without damage to themselves or to vehicles. The cones are to be placed in the closed lane out approx. 24" from the centerline of the roadway. The cones shall be reflectorized or equipped with lighting devices for nighttime use.

Install Type I or II Barricades at right angles to the center of the roadway. Each barricade shall have one yellow steady burning warning light on top at night. The maximum spacing between Type I or II Barricades in the taper should be approximately equal in feet to the speed limit prior to work.

The first barricade on the approach is to be placed on the shoulder with the near end approximately in line with the edge of the near lane. The last barricade on the approach is to be placed in the closed lane with the near end clear of the traffic lane approximately 24". The end of the intermediate barricades are to be placed on a transition line between the above designated points as shown.

Advance Warning Flashing or Sequencing Arrow Panels. (see note below)

Flagmen to be used only in special situations as required at the locations needed.

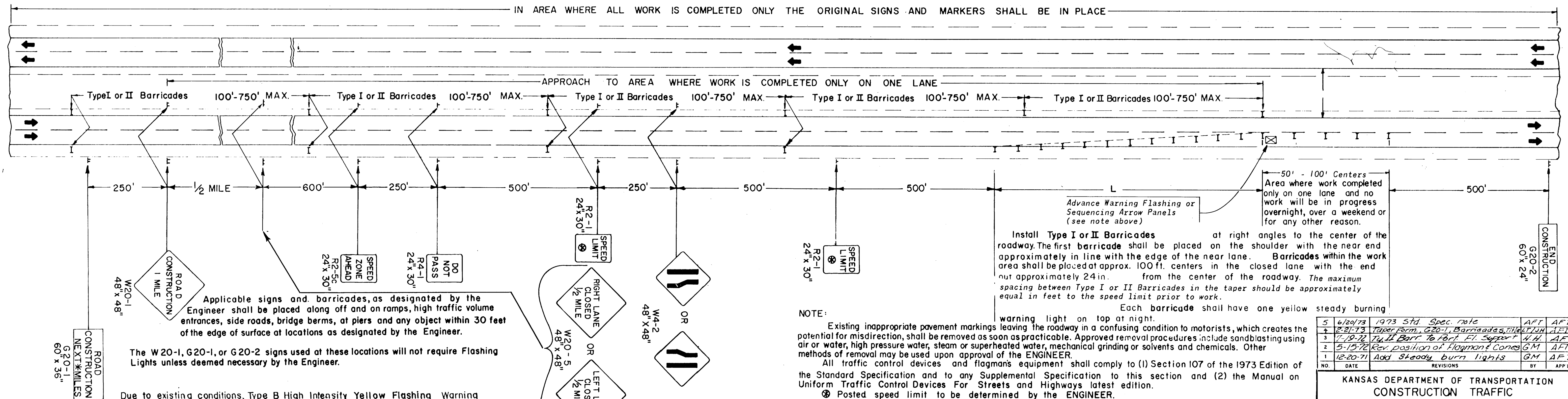


The G20-1 sign shall be erected only when the construction zone exceeds (2) miles in length. The (*) mileage shall be shown to the nearest whole mile.

The R2-5a or R2-5b sign is to be used in lieu of the R2-5c sign, where the road work is already in a speed zone and further reduction in speed is desired.

Install Type I or II Barricades at a spacing of 500 feet to 750 feet (maximum) in areas outside City Limits or 100 feet to 200 feet (maximum) in areas inside City Limits. The spacing to be determined by the ENGINEER. Barricades shall be placed approximately at right angles to the surface edge. Each Barricade shall have one Type "A" yellow flashing or Type "C" steady burn warning light (as determined by the ENGINEER) on top near the roadway end at night. Due to existing conditions the ENGINEER may require a decrease in the spacing stipulated above for Barricades and an increase or decrease in the spacing between cones and/or signs. Additional Barricades and Lights required as a result of reduced spacing will be paid for as extra work. All dimensions shown are nominal.

NOTE: An Advance Warning Flashing or Sequencing Arrow Panel shall be used at or near locations shown. The arrow shall be subsidiary to the item of Traffic Control when not shown as a bid item.



Applicable signs and barricades, as designated by the Engineer shall be placed along off and on ramps, high traffic volume entrances, side roads, bridge berms, at piers and any object within 30 feet of the edge of surface at locations as designated by the Engineer.

The W20-1, G20-1, or G20-2 signs used at these locations will not require Flashing Lights unless deemed necessary by the Engineer.

Due to existing conditions, Type B High Intensity Yellow Flashing Warning Lights may be required on any sign or device as deemed necessary by the ENGINEER. When used, they shall be paid for as extra work.

Reflectorized Drums may be substituted for Type II Barricades or Traffic Cones. Yellow Lights placed on drums shall be the type as shown by Traffic Control Device Standard Number 752.

11	11/6/79	Notes, Dim, Lts, Chan Dev, Signs	R/W	AFT
10	4-19-78	Cones, Lights, Fl Arrow Dev (Notes)	W	AFT
9	1/5/78	Signs, Barricades, Roadway, RR	RR	AFT
8	2/2/77	Sign spacing, Lights, notes	AFT	AFT

NOTE:

Existing inappropriate pavement markings leaving the roadway in a confusing condition to motorists, which creates the potential for misdirection, shall be removed as soon as practicable. Approved removal procedures include sandblasting using air or water, high pressure water, steam or superheated water, mechanical grinding and solvents and chemicals. Other methods of removal may be used upon approval of the ENGINEER.

All traffic control devices and flagman's equipment shall comply to (1) Section 107 of the 1973 Edition of the Standard Specification and to any Supplemental Specification to this section and (2) the Manual on Uniform Traffic Control Devices For Streets and Highways latest edition.

Posted speed limit to be determined by the ENGINEER.

All signs and barricades used to control traffic shall be reflectorized with reflective sheeting. When no work is in progress all equipment shall be removed from the recovery area and placed or parked at the extreme limits of the right of way or at sites approved by the ENGINEER.

Temporary traffic control signs when not in use shall be either covered with an opaque weatherproof material or removed from recovery area as approved by the ENGINEER.

Lights placed on advance warning signs shall be Type B High Intensity with a 7" minimum diameter lens, regulated to flash 55 to 75 times per minute. The flash duration shall not be less than 8% of time.

FHWA NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	54-87-5942 (2)	1980	30	32

NO.	DATE	REVISIONS	BY	APP'D
5	6/20/73	1973 Std. Spec. note	AFT	AFT
4	2/21/73	Taper form, G20-1, Barricades, etc.	AFT	AFT
3	7/19/72	Rev. to Part 1, Fl. Support	W.H.	AFT
2	5-15-72	Rev. position of Flagman's Cones	GM	AFT
1	12-20-71	Add Steady burn lights	GM	AFT

KANSAS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION TRAFFIC
CONTROL DEVICES AND LOCATIONS
FOR A FOUR-LANE
HIGHWAY

STD. 744.1	SCALE	APP'D	DESIGNED	DETAILS	QUANTITIES	TRACED	GM
SHEET NO. 30 OF 32	SCALE	APP'D	DESIGNED	DETAILS	QUANTITIES	TRACED	GM
DESIGNED	GM	DETAILS	AFT	QUAN	CK	TRACE	CK