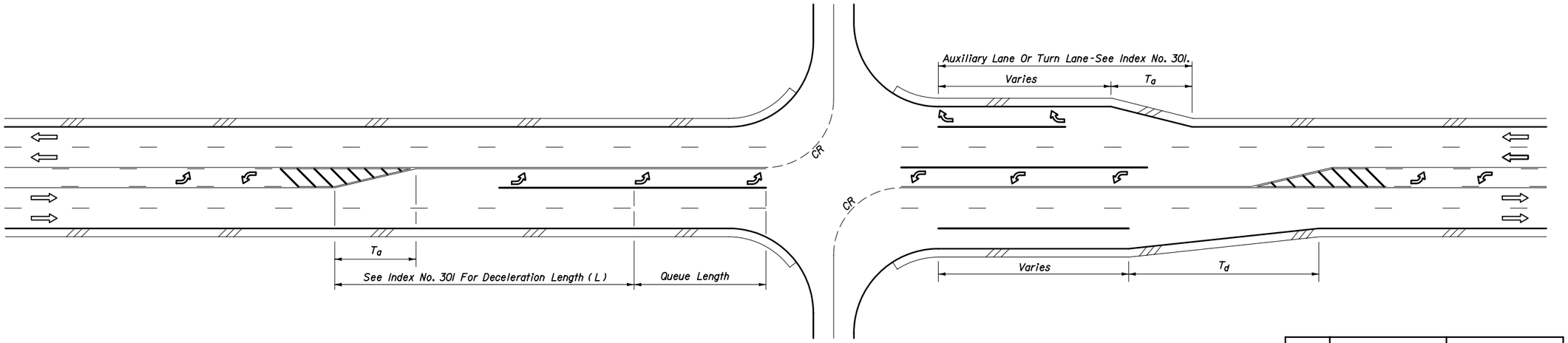
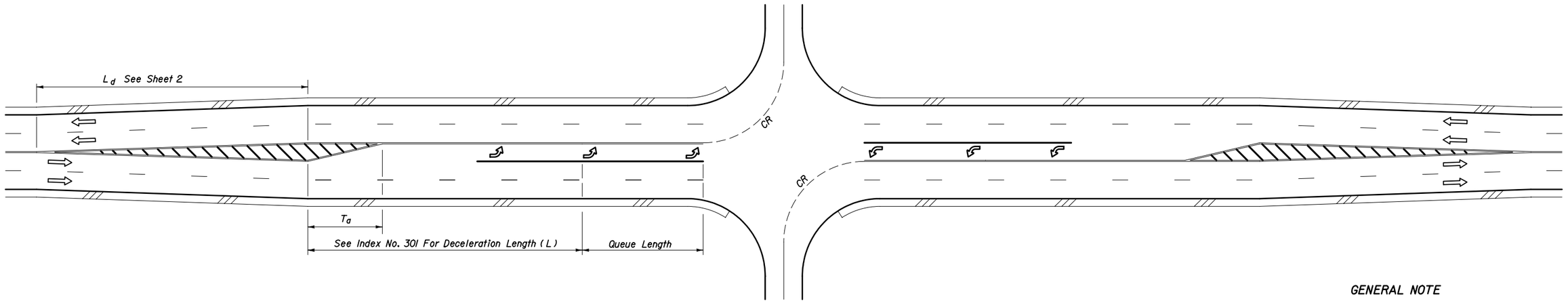


DESIGN SPEED (mph)	T_a (FEET)	T_d
	ADD LANE	LANE DROP
< 30	50'(±1 : 4)	1 : 25
30-45		1 : 30
> 45		1 : 40

Note: For locations with unrelocatable control points minimum taper rates for lane drop (T_d) will be 1 : 20.

4-LANE WITH TWO-WAY LEFT-TURN LANES

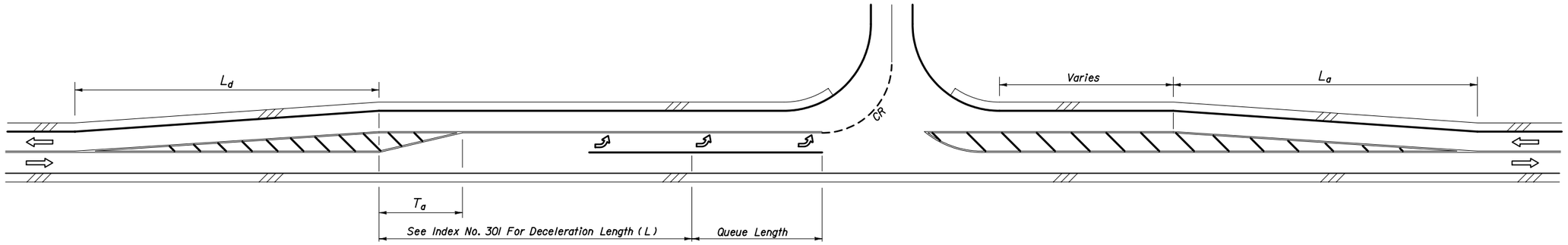


GENERAL NOTE

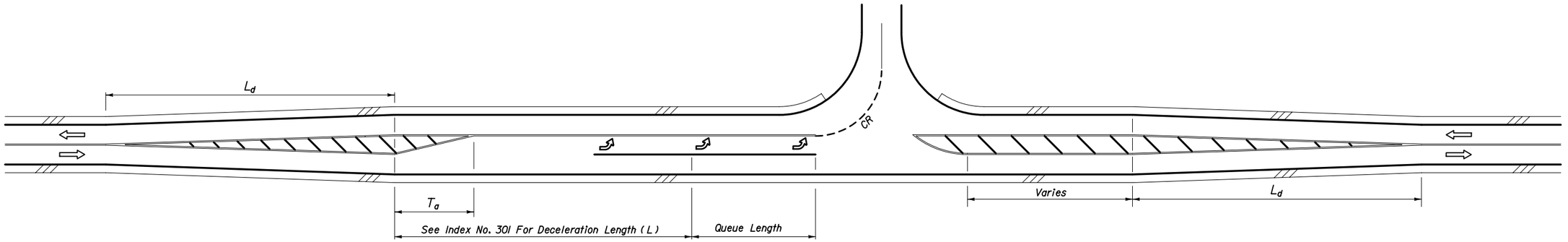
1. For pavement markings refer to Index No. 17346.

4-LANE UNDIVIDED FLARED - SYMMETRICAL

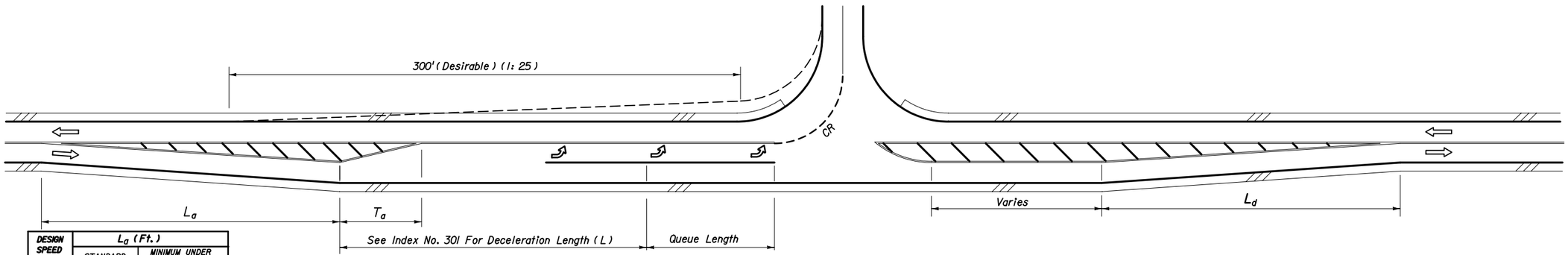
INTERSECTION TURNS AND STORAGE



LEFT SIDE WIDENING



CENTERED WIDENING

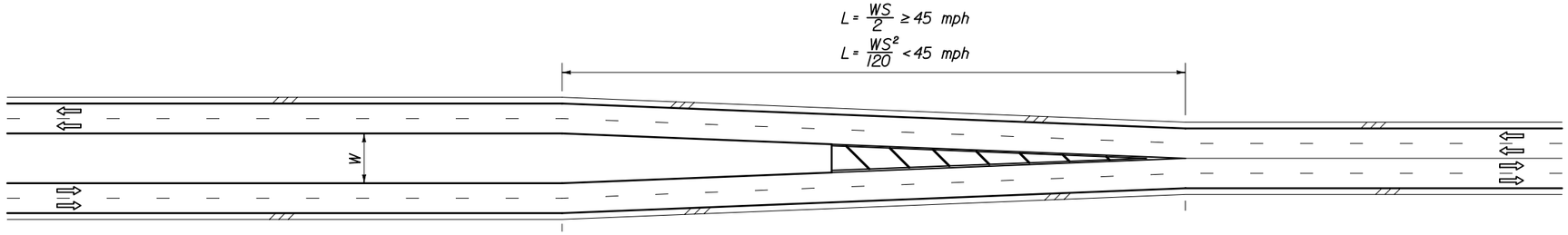


RIGHT SIDE WIDENING

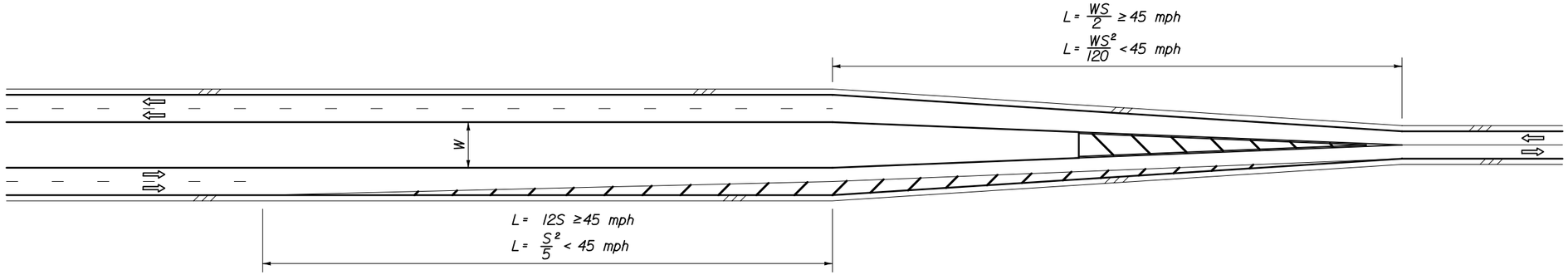
DESIGN SPEED (mph)	L_a (Ft.)	
	STANDARD	MINIMUM UNDER RESTRAINTS
30	180	120
40	320	150
50	500	180
60	720	240

(mph)	L_d (Ft.)	
30	180	120
40	240	150
50	360	180
60	480	240

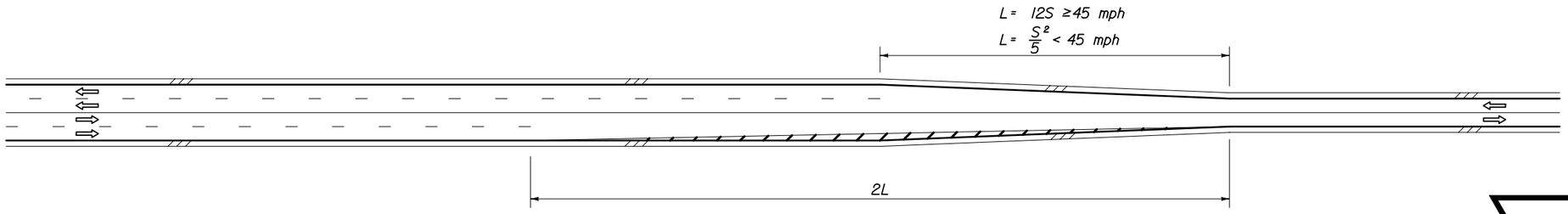
FLARED & PAINTED LEFT TURNS FOR 2-LANE 2-WAY ROADWAYS



4-LANE DIVIDED TO 4-LANE UNDIVIDED

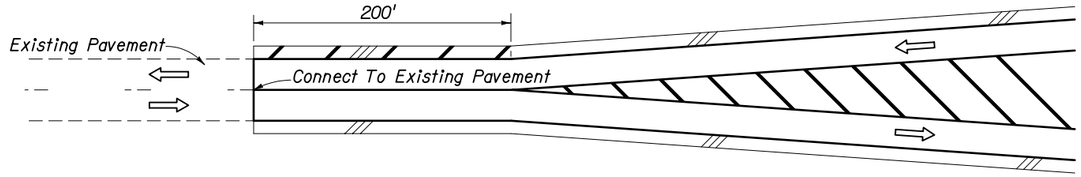


4-LANE DIVIDED TO 2-LANE UNDIVIDED

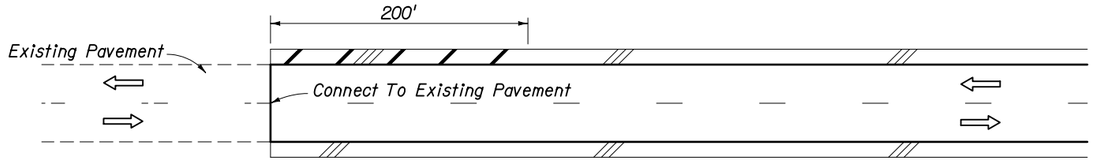


4-LANE UNDIVIDED TO 2-LANE UNDIVIDED

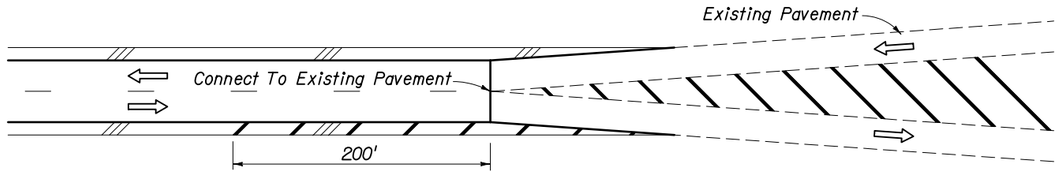
LANE DIVERGENCE AND CONVERGENCE FOR CENTERED ROADWAYS



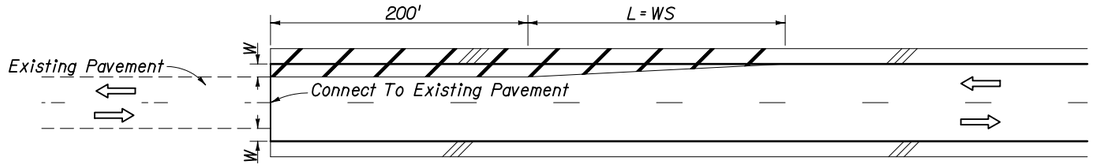
CONNECTING FLARE WITH PAVED SHOULDERS TO
EXISTING ROADWAY WITHOUT PAVED SHOULDERS



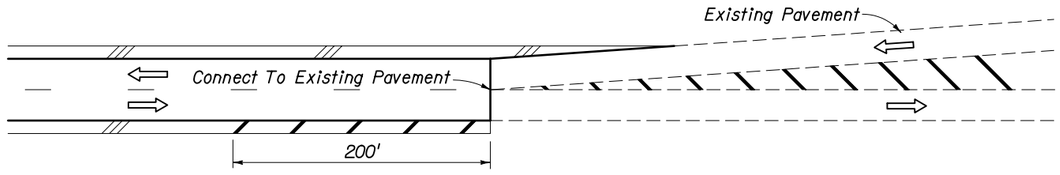
CONNECTING SIMILAR WIDTH PAVEMENTS

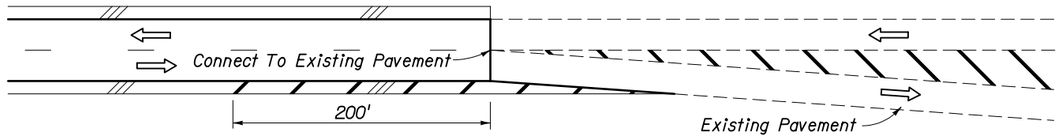


CONNECTING ROADWAY WITH PAVED SHOULDERS TO
EXISTING SYMMETRICAL FLARE WITH OUT PAVED SHOULDERS

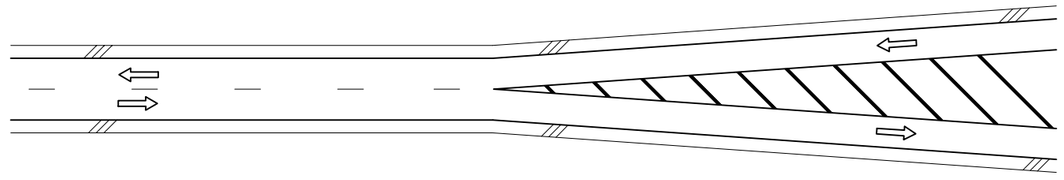


CONNECTING DIFFERENT WIDTH PAVEMENTS





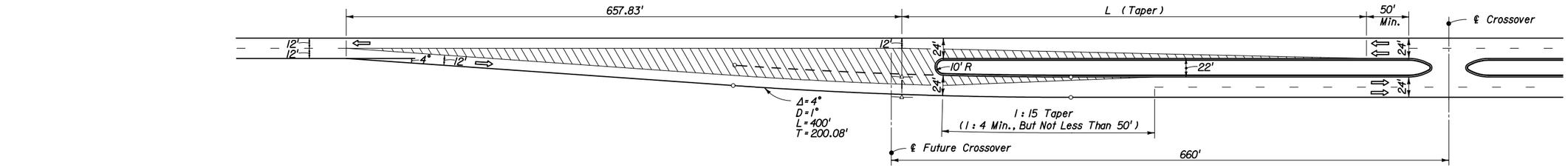
CONNECTING ROADWAY WITH PAVED SHOULDERS TO
EXISTING ASYMMETRICAL FLARE WITH OUT PAVED SHOULDERS



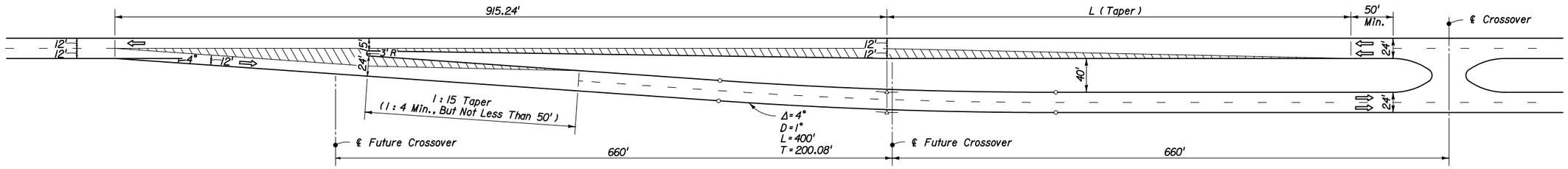
FLARED - PAVED SHOULDERS

S = Design speed (mph).

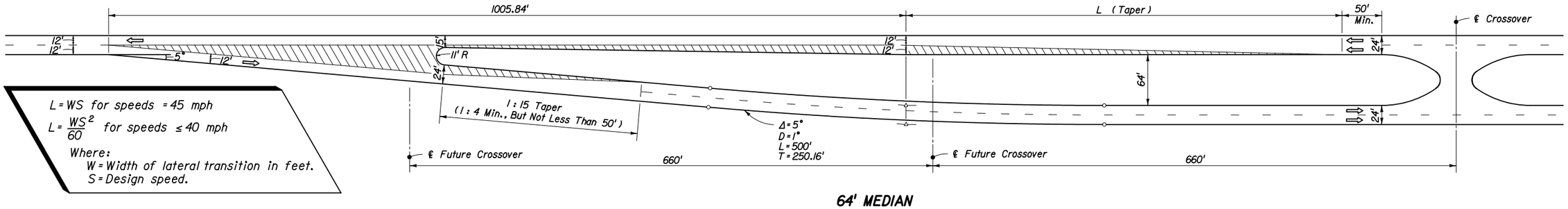
PAVED SHOULDER TREATMENT AT TRANSITIONS AND CONNECTIONS



22' MEDIAN



40' MEDIAN

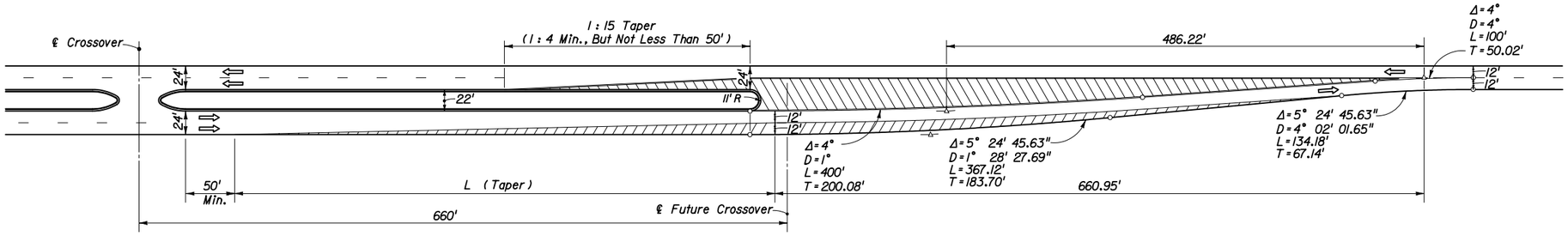


64' MEDIAN

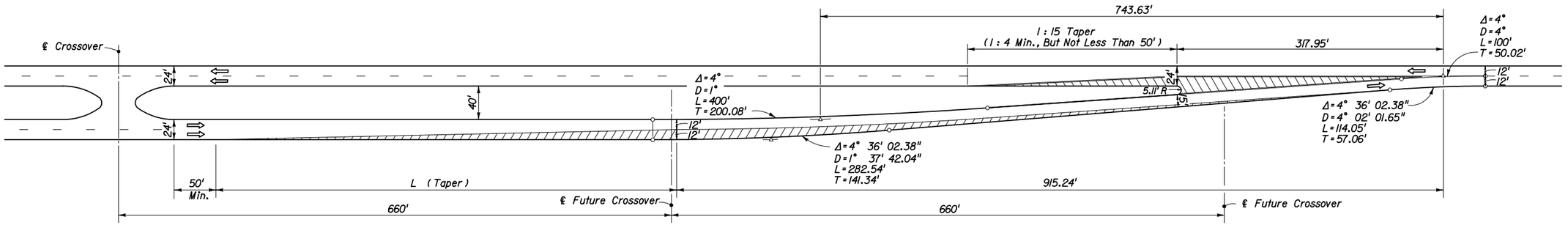
NOTES FOR SHEETS 5 THRU 8

1. The transition details as represented on sheets 5 thru 8 are intended as guidelines only. The transition lengths, curve data, nose radii and offsets are valid only for tangent alignment, design speeds ≤45 mph, the median widths and lane widths shown.
2. Approach lane departures (Δ=5°) are suitable for design speeds up to 60 mph. Interior curves (D=1°) are suitable for normal crown for design speeds up to 50 mph. Merging curves (D ≥ 5°) will require superelevation.
3. The geometrics of these schemes are associated with the standard subsectional spacing for sideroads, but in any case will require modification to accommodate sideroad location, multilane and/or divided sideroads, oblique sideroads, crossover widths, storage and speed change lane requirements, and, other related features.

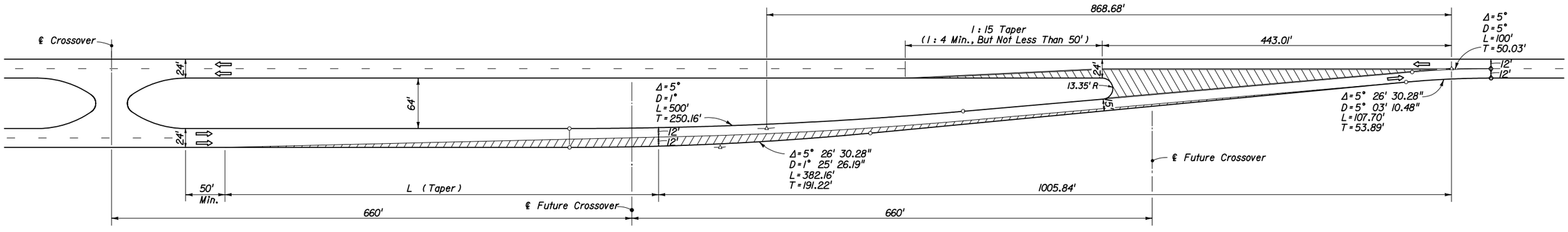
LEFT ROADWAY CENTERED ON APPROACH ROADWAY
TWO LANE TO FOUR LANE TRANSITION



22' MEDIAN



40' MEDIAN



64' MEDIAN

$L = WS$ for speeds = 45 mph

$L = \frac{WS^2}{60}$ for speeds ≤ 40 mph

Where:
W = Width of lateral transition in feet.
S = Design speed.

LEFT ROADWAY CENTERED ON THRU ROADWAY

FOUR LANE TO TWO LANE TRANSITION

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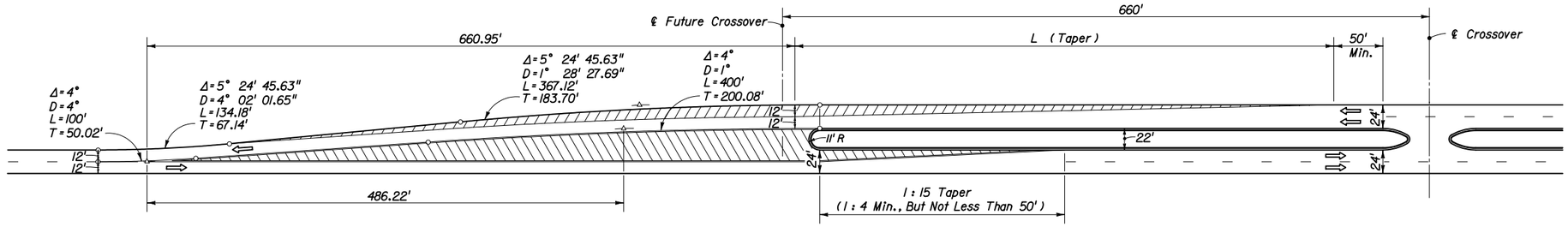
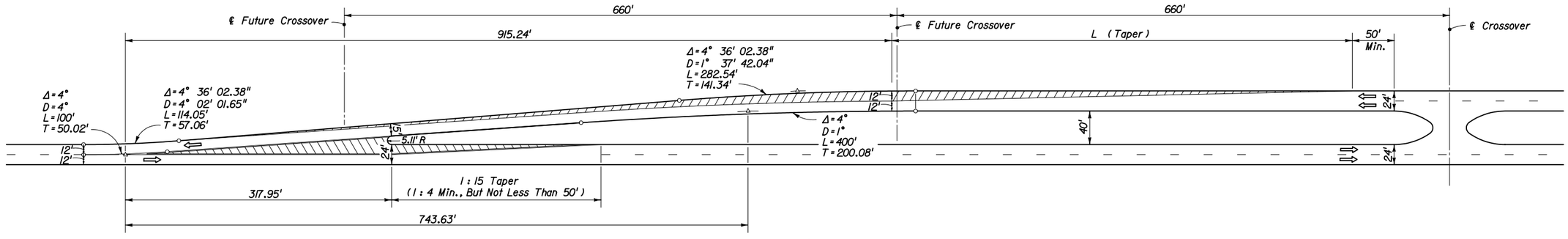
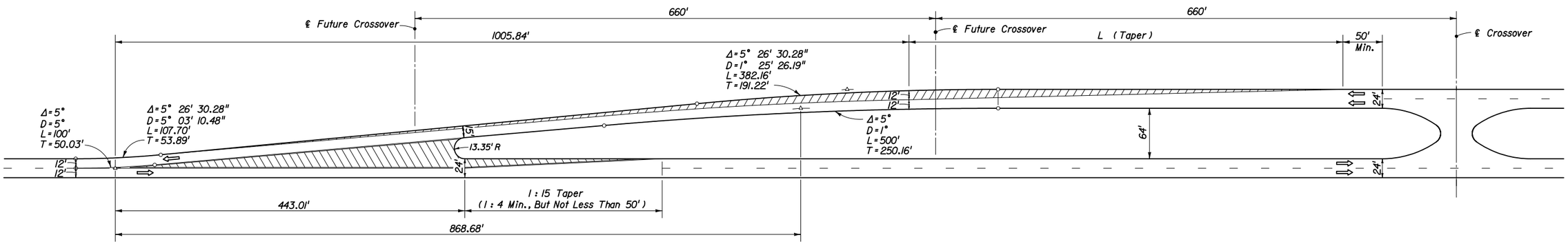


22' MEDIAN



40' MEDIAN



64' MEDIAN

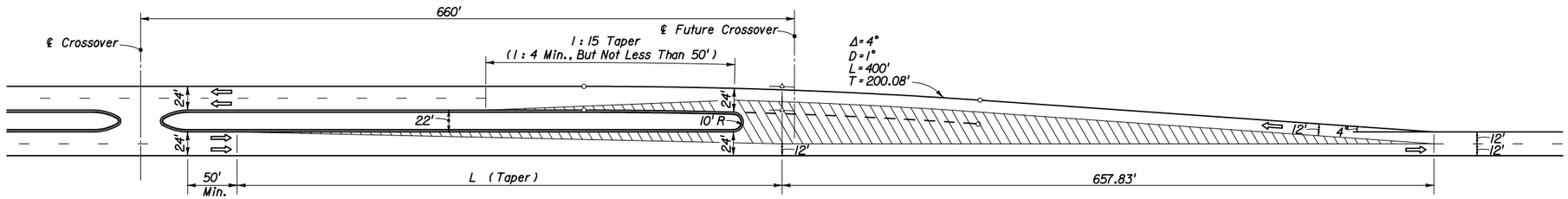
$L = WS$ for speeds ≤45 mph

$L = \frac{WS^2}{60}$ for speeds ≤40 mph

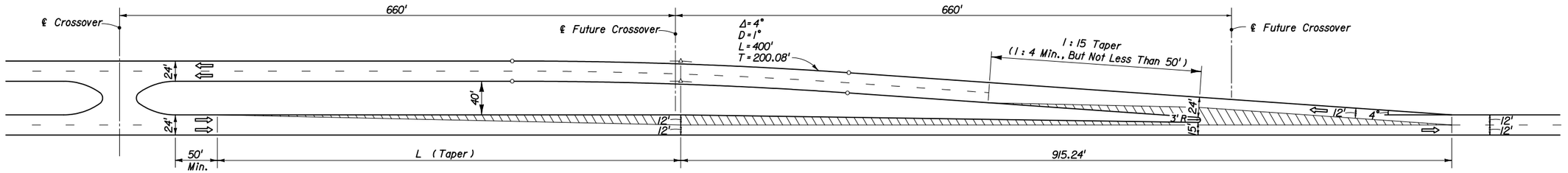
Where:
W = Width of lateral transition in feet.
S = Design speed.

RIGHT ROADWAY CENTERED ON APPROACH ROADWAY

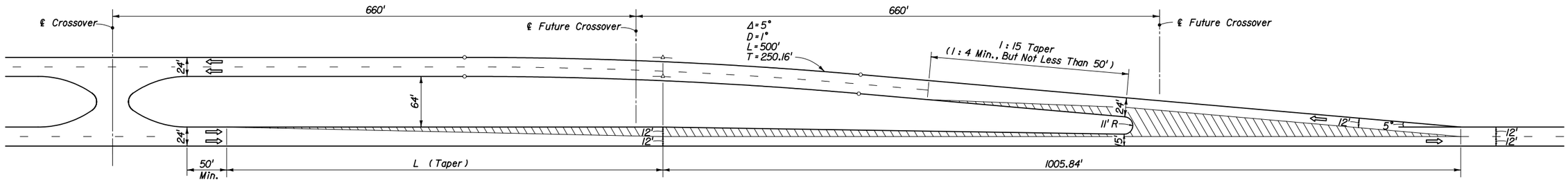
TWO LANE TO FOUR LANE TRANSITION



22' MEDIAN



40' MEDIAN



64' MEDIAN

$L = WS$ for speeds ≤ 45 mph

$L = \frac{WS^2}{60}$ for speeds ≤ 40 mph

Where:
W = Width of lateral transition in feet.
S = Design speed.

RIGHT ROADWAY CENTERED ON THRU ROADWAY
FOUR LANE TO TWO LANE TRANSITION

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