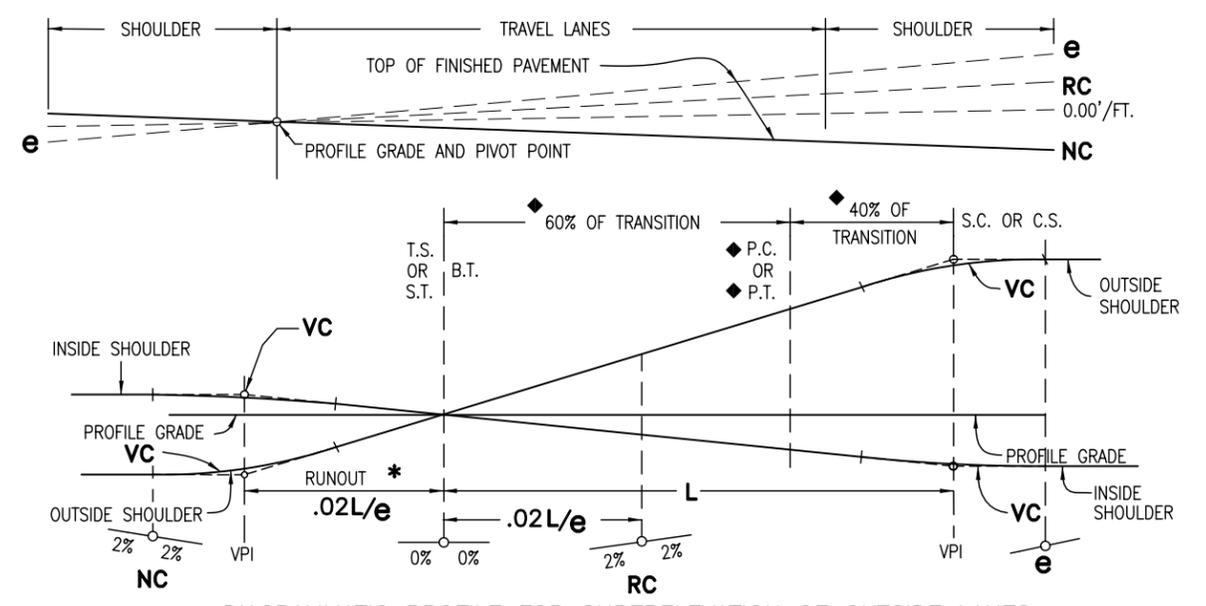


DIAGRAMMATIC PROFILE FOR SUPERELEVATION OF INSIDE LANES



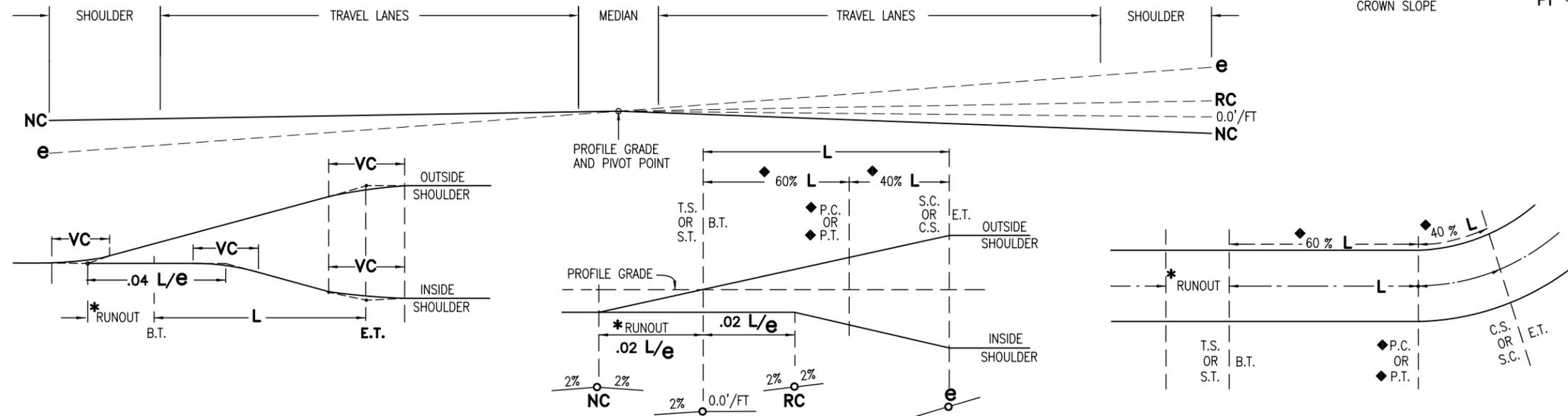
DIAGRAMMATIC PROFILE FOR SUPERELEVATION OF OUTSIDE LANES

SUPERELEVATION DIAGRAMS FOR DIVIDED HIGHWAYS SHOULDER PIVOT

VC - TO OBTAIN SMOOTH PROFILES ON PAVEMENT EDGES, VERTICAL CURVES MAY BE INSERTED AT THE ANGULAR BREAK POINTS. UNLESS RESTRAINING CONDITIONS EXIST, THE LENGTH OF VERTICAL CURVE SELECTED, IN FEET, SHOULD BE AT LEAST NUMERICALLY EQUAL TO THE DESIGN SPEED, AND NO MORE THAN $.04L/e$.

- R** - RADIUS OF CURVE
- V_d** - ASSUMED DESIGN SPEED
- L** - LENGTH OF SUPERELEVATION RUNOFF OR SPIRAL LENGTH
- NC** - NORMAL CROWN SECTION
- RC** - REMOVE ADVERSE CROWN, SUPERELEVATE AT NORMAL CROWN SLOPE
- VC** - VERTICAL CURVE
- BT** - BEGINNING OF TRANSITION
- ET** - ENDING OF TRANSITION
- TS** - TANGENT TO SPIRAL
- ST** - SPIRAL TO TANGENT
- PC** - POINT OF CURVATURE
- PI** - POINT OF INTERSECTION
- PT** - POINT OF TANGENT
- CS** - CURVE TO SPIRAL
- SC** - SPIRAL TO CURVE

- = PIVOT
- ◆ = WHEN CURVE IS NOT SPIRALLED.
- e** = MAXIMUM RATE OF SUPERELEVATION IN FEET (PER FOOT OF WIDTH) FOR THE GIVEN RADIUS OF CURVE AND DESIGN SPEED.
- *** = RUNOUT LENGTH SHOULD USUALLY BE $.02L/e$. WHEN CONDITIONS ARE SUCH THAT THIS LENGTH IS NOT SUITABLE, THE DESIGNER SHALL CHOOSE ANOTHER LENGTH TO SUIT CONDITIONS.



SUPERELEVATION DIAGRAMS FOR DIVIDED HIGHWAY CENTER PIVOT

Computer File Information Creation Date: 07/04/06 Initials: SJR Last Modification Date: 07/04/06 Initials: LTA Full Path: www.dot.state.co.us/DesignSupport/ Drawing File Name: 2030110303.dwg CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English		Sheet Revisions <table border="1"> <thead> <tr> <th>Date:</th> <th>Comments</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>		Date:	Comments									Colorado Department of Transportation  4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820 Project Development Branch SRJ/LTA		SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS Issued By: Project Development Branch on July 04, 2006		STANDARD PLAN NO. M-203-11 Sheet No. 3 of 3	
Date:	Comments																		