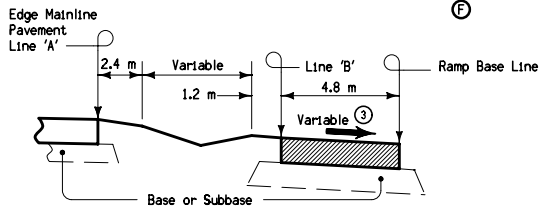


NOTE: The algebraic difference between profile grade for Ramp Base Line at (F) and relative profile grade of Mainline at (H) is 0.54%.

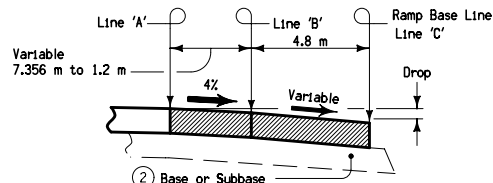
PROFILE

TABLE OF OFFSETS AND DROPS FOR 4.8 m RAMP TAPER

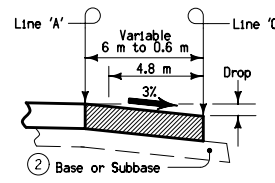
| Distance From Point (E) Along Line A (m) | | | | | | | | | | | | | | | | | | | | |
|--|------------|-----------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|--|--|
| | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 | 10 | 20 | 50 | 100 | 150 | 200 | 250 | 300 | | | |
| From Line 'A' To Line 'B' | Offset (m) | 7.356 | 6.083 | 4.955 | 3.971 | 3.131 | 2.435 | 1.880 | 1.469 | 1.200 | | | | | | | | | | |
| | Slope (%) | Constant 4.00% Slope | | | | | | | | | | | | | | | | | | |
| | Drop (mm) | 294 | 243 | 198 | 159 | 125 | 97 | 75 | 59 | 44 | | | | | | | | | | |
| From Line 'B' To Line 'C' | Offset (m) | Constant 4.8 m Offset | | | | | | | | | | | | | | | | | | |
| | Slope (%) | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.10 | 4.44 | 3.64 | | | | | | | | | | |
| | Drop (mm) | 250 | 250 | 250 | 250 | 250 | 250 | 245 | 213 | 175 | | | | | | | | | | |
| From Line 'A' To Line 'C' | Offset (m) | | | | | | | | | 6.000 | 5.800 | 5.600 | 5.000 | 4.000 | 3.000 | 2.000 | 1.000 | 0.000 | | |
| | Slope (%) | | | | | | | | | 3.64 | 3.07 | 3.00 | Constant 3.00% | | | | | | | |
| | Drop (mm) | 544 | 493 | 448 | 409 | 375 | 347 | 320 | 272 | 219 | 178 | 168 | 150 | 120 | 90 | 60 | 30 | 0 | | |
| Distance From Point (G) Along Line C (m) | 79.638 | 69.626 | 59.631 | 49.651 | 39.684 | 29.728 | 19.780 | 9.840 | 0.000 | | | | | | | | | | | |



SECTION A-A



SECTION B-B



SECTION C-C

Ramp entrance pavement shall be the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 1345 square meters.

Special shaping of area between lines A and B may be required to assure proper drainage.

For jointing layout, see Standard Road Plan RV-10.

This design is based on 100 km/h design speed at e max = 6%.

- For header construction details at the beginning of taper, refer to Typical 7101 or Typical 7102.
- Subbase for ramp entrance pavement shall be the same thickness as mainline subbase.
- The ramp pavement cross slope between (J) and (F) is determined by superelevation rotated about line C. Refer to Standard Road Plan RP-3 and plans for superelevation transition requirements.

| W ₀ | Shoulder Width beyond Edge of Mainline Pavement | | |
|----------------|---|-----|------|
| | 2.4m | 3m | 3.6m |
| 3.6m | NA | 60m | 90m |
| 4.2m | 30m | 60m | NA |

NOTE: W₀ is the width of the outside lane to the Edge of Pavement.

All dimensions given in millimeters unless noted.

| | | |
|---|--|--------------|
| M METRIC VERSION | | REVISION |
| | | 5 [04-21-09] |
| | STANDARD ROAD PLAN | RV-5 |
| | SHEET 1 of 1 | |
| | <small>REVISIONS: Corrected circle note 2. Removed mainline pavement and shoulder widths. Added table for shoulder transition distance. (Metrics Re-instated.)</small> <i>Deanna Mifflin</i> <small>APPROVED BY DESIGN METHOD'S ENGINEER</small> | |
| ACCELERATION TAPER FOR 4.8 m ENTRANCE RAMP | | |