TAPERED EDGE, PAVEMENT CLIMATE REGION AND
PAVEMENT STRUCTURE FOR SHOULDERS

DESIGN DESIGNATION

ADT (2013) XXX,XXX O XXX
ADT (2033) XXX,XXX T XXX
SMV XX,XXX V XX mph
ETAD X,XXX,XXX X,XXX

PAVEMENT CLIMATE REGION

SOUTH MOUNTAIN

TAPERED EDGE

For information on when the shoulder pavement structure depth is to be the same (or different) as the adjacent lane, refer to Highway Design Manual Topic 613.3.2, For variable shoulder thickness options, see Figures 613.5A and 613.5B.

Regardless of the pavement structure of the shoulder, if the cross slope of the shoulder is different than the adjacent traveled way, the break is to occur at the edge of traveled way.

The grading plane for shoulders are to match the grading plane of the adjacent traveled way pavement structure.

In Topic 613.3.2 of the Highway Design Manual, it requires that when the shoulders of new or reconstructed shoulder pavement structure shall match the adjacent traffic lane when:
- The shoulder width is less than 3 feet.
- The shoulder width is 4 feet or less.
- In areas with less than two lanes in the direction of travel where a shoulder is not more than 10 feet in length, grades of over 4 percent without a 400 foot climbing lane.
- The shoulders are adjacent to exclusive truck or bus only lanes, or weigh station roads.

For shoulder overpass:

The total depth of shoulder shall match the adjacent traffic lane for the first 2 feet of the outside shoulder width and 1 foot of the inside shoulder measured from the edge of traveled way.

In the Highway Design Manual, it states that the total depth of new or reconstructed shoulder pavement structure shall match the adjacent traffic lane where:
- The shoulder width is less than 5 feet.
- The shoulder width is 6 feet or less.
- In areas with less than two lanes in the direction of travel where a shoulder is not more than 30 feet in length, grades of over 4 percent without a 400 foot climbing lane.
- The shoulders are adjacent to exclusive truck or bus only lanes, or weigh station roads.

The grading plane for shoulders are to match the grading plane of the adjacent traveled way.

Pavement overlays that are less than 0.15' in thickness.

Within 3' of driveways or intersections.

For when, where and how to place tapered edge, see Revised Standard Plans P74, P75 and P76. Topic 302.3 in the Highway Design Manual states tapered edge shall be included on all projects except for the following locations:
- Where the distance from edge of shoulder to hinge point is less than 1' and there is not enough room for the tapered edge.
- Within 3' of driveways or intersections.
- Pavement overlays that are less than 0.15' in thickness.

TOPIC 613.3.2

For showing both design designation and pavement climate region only.

For showing pavement climate region only.

For adding pavement climate designation.

LABEL OTHER AS "TAPERED EDGE" or "TE" if using "TE" then include in abbreviations on the first label either as "TAPERED EDGE" or "TE.

If using tapered edge, pavement climate region and or cubic yards of concrete.

is to be added to the project's quantities for tons of HMA on the summary of quantities. The bid item for tapered edge number and stationing is to be shown in a quantity table.

Is to be shown on layout sheets or other plan view sheets. Locations for tapered edge (both sheet and/or plan view sheets). Locations for tapered edge (both sheet and/or plan view sheets). Tapered edge is NOT to be shown on layout sheets or other plan view sheets.

Within 3' of driveways or intersections.

For when, where and how to place tapered edge, see Revised Standard Plans P74, P75 and P76. Topic 302.3 in the Highway Design Manual states tapered edge shall be included on all projects except for the following locations:
- Where the distance from edge of shoulder to hinge point is less than 1' and there is not enough room for the tapered edge.
- Within 3' of driveways or intersections.
- Pavement overlays that are less than 0.15' in thickness.

For when, where and how to place tapered edge, see Revised Standard Plans P74, P75 and P76. Topic 302.3 in the Highway Design Manual states tapered edge shall be included on all projects except for the following locations:
- Where the distance from edge of shoulder to hinge point is less than 1' and there is not enough room for the tapered edge.
- Within 3' of driveways or intersections.
- Pavement overlays that are less than 0.15' in thickness.

For when, where and how to place tapered edge, see Revised Standard Plans P74, P75 and P76. Topic 302.3 in the Highway Design Manual states tapered edge shall be included on all projects except for the following locations:
- Where the distance from edge of shoulder to hinge point is less than 1' and there is not enough room for the tapered edge.
- Within 3' of driveways or intersections.
- Pavement overlays that are less than 0.15' in thickness.

For when, where and how to place tapered edge, see Revised Standard Plans P74, P75 and P76. Topic 302.3 in the Highway Design Manual states tapered edge shall be included on all projects except for the following locations:
- Where the distance from edge of shoulder to hinge point is less than 1' and there is not enough room for the tapered edge.
- Within 3' of driveways or intersections.
- Pavement overlays that are less than 0.15' in thickness.

For when, where and how to place tapered edge, see Revised Standard Plans P74, P75 and P76. Topic 302.3 in the Highway Design Manual states tapered edge shall be included on all projects except for the following locations:
- Where the distance from edge of shoulder to hinge point is less than 1' and there is not enough room for the tapered edge.
- Within 3' of driveways or intersections.
- Pavement overlays that are less than 0.15' in thickness.

For when, where and how to place tapered edge, see Revised Standard Plans P74, P75 and P76. Topic 302.3 in the Highway Design Manual states tapered edge shall be included on all projects except for the following locations:
- Where the distance from edge of shoulder to hinge point is less than 1' and there is not enough room for the tapered edge.
- Within 3' of driveways or intersections.
- Pavement overlays that are less than 0.15' in thickness.

For when, where and how to place tapered edge, see Revised Standard Plans P74, P75 and P76. Topic 302.3 in the Highway Design Manual states tapered edge shall be included on all projects except for the following locations:
- Where the distance from edge of shoulder to hinge point is less than 1' and there is not enough room for the tapered edge.
- Within 3' of driveways or intersections.
- Pavement overlays that are less than 0.15' in thickness.

For when, where and how to place tapered edge, see Revised Standard Plans P74, P75 and P76. Topic 302.3 in the Highway Design Manual states tapered edge shall be included on all projects except for the following locations:
- Where the distance from edge of shoulder to hinge point is less than 1' and there is not enough room for the tapered edge.
- Within 3' of driveways or intersections.
- Pavement overlays that are less than 0.15' in thickness.