

GENERAL NOTES

- (1) PRESPLIT SLOPE TO BE PROVIDED FOR SPECIFIC ROCK CUT INTERVALS IN GEOTECHNICAL REPORT. IT IS ASSUMED PRESPLIT FACES WILL BE FORMED OR SCALED OF LOOSE ROCKS AND OVERHANGS.
- (2) THE FHWA SPR-3(032) ROCKFALL CATCHMENT DESIGN AREA GUIDE SHALL BE USED IN EVALUATION OF NEW ROCKFALL CATCHMENT AREAS OR EXISTING CATCHMENT AREAS. PERCENT CATCHMENT RETENTION SHALL BE DETERMINED BASED ON DRAWING # 121.0.5 .
- (3) IF A CATCHMENT AREA BASED UPON THE FHWA CATCHMENT DESIGN GUIDE CANNOT BE ACHIEVED DUE TO RIGHT-OF-WAY RESTRICTIONS OR EXCESSIVE EXCAVATION, THEN A COMBINATION OF A NARROW FLAT DITCH SECTION OR SINGLE ANGLE FORESLOPE, ROCKFALL CATCHMENT FENCE OR BARRIER, ROCK SLOPE MESHING, OR ROCK BOLTING SHOULD BE EVALUATED BY THE ROCK SLOPE DESIGN ENGINEER (ENGINEERING GEOLOGIST OR GEOTECHNICAL ENGINEER).
- (4) A UNIFORM CATCHMENT WIDTH BASED UPON THE HIGHEST ROCK CUT SLOPE SHOULD BE USED.
- (5) TOTAL CATCHMENT WIDTH SHOULD BE DETERMINED USING FHWA SPR-3(032) ROCKFALL CATCHMENT DESIGN GUIDE CHARTS, IF THE HEIGHT OF THE ROCK CUT IS 40FT, 50FT, 60FT, 70FT OR 80FT HIGH. HOWEVER, THE CHART METHOD IS ONLY ACCURATE FOR THOSE ROCK SLOPE HEIGHTS AND NEEDS TO BE DETERMINED BY AN EXPERIENCED ROCK SLOPE DESIGN ENGINEER. IF A ROCK SLOPE IS LESS THAN 40FT IN HEIGHT OR BETWEEN CHART HEIGHTS, AN EXPERIENCED ROCK SLOPE DESIGN ENGINEER (ENGINEERING GEOLOGIST OR GEOTECHNICAL ENGINEER) NEEDS TO PROVIDE ANALYSIS AND DESIGN OF THE ROCK SLOPE AND CATCHMENT AREA BASED ON FHWA CATCHMENT GUIDE AND A COMPUTER ROCKFALL SIMULATION PROGRAM (FOR EXAMPLE CRSP, ROCSCIENCE ROCKFALL, ETC.).
- (6) THE CATCHMENT AREA WIDTH IS MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE EDGE OF ROADWAY PAVEMENT AND THE BASE (TOE) OF THE ROCK SLOPE. ITS DEPTH IS THE VERTICAL DISTANCE BETWEEN THOSE TWO FEATURES.
- (7) ROADWAYS WITH SIDEWALKS: SIDEWALKS SHALL NOT BE CONSIDERED PART OF THE CATCHMENT AREA. SIDEWALKS MAY BE CONSIDERED THE EDGE OF PAVEMENT FOR DEFINING THE CATCHMENT AREA WIDTH.
- (8) FORESLOPE OF 1V:3H OR 1V:4H ARE PERMISSIBLE -GUARDRAIL IS REQUIRED.
- (9) 1V:3H OR 1V:4H SINGLE ANGLE FORESLOPES ARE PERMISSIBLE -GUARDRAIL IS REQUIRED.
- (10) 1V:6H SINGLE ANGLE FORESELOPE FROM TOE OF ROCK SLOPE TO EDGE OF PAVEMENT IS PERMISSIBLE.
- (11) IF LOCAL GEOLOGY IS NOT STABLE ENOUGH FOR A ROCK SLOPE STEEPER THAN 4V:1H, PRESPLIT ROCK SLOPE CAN BE FLATTER THAN 4V:1H. HOWEVER, THIS SHOULD BE DETERMINED IN A GEOTECHNICAL REPORT.