

Razor 30J Construction Calculations

The Whiting DJ Basin Stormwater Management Plan calls for sediment traps to have a storage of 3,600 cubic feet per acre. Razor 30J is approximately 10 acres in size, and thus a total of ~36,000 cubic feet of storage capacity is needed for this location. See below for the site-specific calculations

Five sediment traps with dimensions of 15'x15'x8' – These each have a storage capacity of 1,800 cubic feet for a total of 9,000 cubic feet.

One sediment trap with dimensions of 170'x20'x8' – This has a total storage capacity of 27,200 cubic feet.

$9,000 + 27,200 = 36,200$ cubic feet of storage capacity for a ten-acre location.

In addition, a redundant BMP (velocity checks) have been installed at this location.