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Let I be a homogeneous height four Gorenstein ideal in R = k[x, y, z, w] generated in degree 2 and higher. Let  $I_t$  represent the ideal generated by the degree t elements in I. We construct the free resolution and the structure for a class of such ideals where  $I_2$  is of height one and generated by exactly three elements. (Received January 04, 2007)