Inorganic material such as brick, cinder block, broken concrete, (without exposed reinforcing steel) asphaltic concrete, rock or other such material may be disposed of in fills.

Consideration should be given to flattening slopes using borrow on top of unsuitable material instead of installing guardrail (Exception: When major slopes of 3:1 and flatter will provide an acceptable condition for a vehicle leaving the roadway. Provide recoverable 6:1 slope when possible (See Appendix A for guidelines). Gore areas of ramps and median areas of divided facilities (unless they are used for stormwater management) are prime areas for placing disposable material. (See Figures 2E-2 and 2E-4)

It is also likely that in some cases, such as the placement of unsuitable material in the bottom of fills, that borrow can be reduced, thereby reducing the cost of a project. Another case would be in the area between the normal and the proposed flatter safety slope.

In no case should a vertical line be used to separate the good material from the unsuitable material (See Figure 2E-2). Roadway compaction must be obtained over the width of the normal roadway section from toe to toe of fill.

Unsuitable material placed outside the normal roadway section will not normally require the standard practice for compaction of fills. If concurrence is received from the Materials Engineer to waive density requirements of fill material placement outside the normal roadway section, then the following note is to be shown with the typical sections denoting the method of placing unsuitable material, giving location, station to station, etc.

Note: "The density requirement for embankment will be waived in the placement of unsuitable material."

When the shoulders are being constructed of commercial material, this material should be extended to intersect the flatter slope (See Figure 2E-2).

Figure 2E-4 is a sample plan that has been prepared to denote, by a series of double hatched lines, the designated area for the placement of unsuitable material on slopes of a roadway facility being constructed in fills. Typical sections showing the theoretical methods to be used for the placement of such materials are to be included in the plans, along with the roadway typical sections. The designer is reminded to check all proposed drainage items pertinent to this procedure.

In essence disposal of unsuitable material within the project limits eliminates the need to haul the material to a waste site, which should reflect in the unit price for regular excavation. There could be a savings in right-of-way cost to acquire the site, if one is not available.