Mr. BLATNIK. The gentleman from New York, Mr. McCarthy.

Mr. McCarthy. Thank you, Mr. Chairman. This looks familiar. Is that Staten Island?

Mr. Linko. Yes; this is the Staten Island Expressway.

Mr. McCarthy. Do you have information on fatal accidents at thi

location?

Mr. Linko. Well, it is hard for me to get. In New York City, a bi city, we do not even bother to put these accidents in the paper becaus there is so much going on, and nobody ever hears about these thing People die and they do not even bother to print this in the paper. Th particular picture is really a shame because these hazards are no necessary. It does not cost any more money to eliminate these. It woul cost less money if some of these hazards had been eliminated at th start. You already have one guardrail protecting the overhead sign That guardrail could have been put in front of the bridge abutmen

Mr. McCarthy. On the sign, I would like to ask Mr. Prisk, wha

would you estimate the cost of those sign supports?

Mr. Prisk. This type of sign, "Bradley Avenue exit one-fourthmile," mounted on a mast arm, and in that type of location, I would suggest that is in the range of \$6,000 to \$8,000.

Mr. McCarthy. \$6,000 to \$8,000. Just before I left private industr to come down here to Congress, the company I was with and othe companies were beginning to utilize certain concepts made by a famou Italian engineer—the name escapes me at the moment. Some of the vast, new, very interesting buildings have been erected with concret without supporting structures. Vast expansions of heavy cement struc ture without supporting pillars, so that it is conceivable—I mean it i feasible to construct that bridge without the median pillars, too.

Now, I am just wondering if any of these people have been usin the latest modern technology in building bridges without pillars. D

you know of anv?

Mr. Prisk. I would have to say, sir, that I am not a structural en gineer. To the best of my knowledge, the bridge engineers in the Stat highway departments are using advanced concepts of design an materials. They certainly spend a great deal of time in discussion o improvements of design.

On the extent to which this principle that you mentioned has be-

recognized, I am quite unable to comment.

Mr. McCarthy. Just for the record, Mr. D'Amico gave me th name, the gentleman I alluded to is Mr. Nervi, whose concepts hav been utilized. I believe Dulles Airport is one where they have thi vast expanse of heavy concrete without supporting pillars.

Mr. Prisk. Yes, sir. I think you must recognize, however, that ther are vehicle loads to be accommodated on that structure over a conside able span, and just what is going to hold that up, I do not know. Yo do not have any vehicle on top of the roof at Dulles Airport.

Mr. McCarthy. No, but you have a very wide expansive area, plu the weight of the material itself, plus the normal stress. I am not structural engineer, either, but I think that the idea has been show that you can erect a structure without supporting members. My reco lection of it is that these can be made very strong with added reinforc ing steel. I am sure we would encounter some difficulties in view o the load of trucks and cars and so forth, but it seems to me it is wort