April 27, 1964

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J. Lee Rankin

FROM

Horman Redlich

The purpose of this memorandum is to explain the reasons why certain members of the staff feel that it is important to take certain on-site photographs in connection with the location of the approximate points at which the three bullets struck the occupants of the Presidential limousine.

Our report presumably will state that the President was hit by the first bullet, Governor Connally by the second, and the President by the third and fatal bullet. The report will also conclude that the bullets were fired by one person located in the sixth floor southeast corner window of the TEND building.

As our investigation now stands, however, we have not shown that these events could possibly have occurred in the manner suggested above. All we have is a reasonable hypothesis which appears to be supported by the medical testimony but which has not been checked out against the physical facts at the scene of the assassination.

Our examination of the Zapruder films shows that the fatal third shot struck the President at a point which we can locate with reasonable accuracy on the ground. We can do this because we know the exact frame (no. 313) in the film at which the third shot hit the President and we know the location of the photographer. By lining up fixed objects in the movie frame where this shot occurs we feel that we have determined the approximate location of this shot. This can be verified by a photo of the same spot from the point where Zapruder was standing.

We have the testimony of Governor and Mrs. Connally that the Governor was hit with the second bullet at a point which we probably cannot fix with precision. We feel we have established, however, with the help of medical testimony, that the shot which hit the Governor field not come after frame 240 on the Zapruder film. The Governor feels that it came around 230 which is certainly consistent with our observations of the film and with the doctor's testimony. Since the President was shot at frame 313, this would leave a time of at least 4 seconds between the two shots, certainly ample for even an inexperienced marksman.

Prior to our last viewing of the files with Covernor Connelly to had assumed that the President was hit while he was concerned behind the sign which occurs between frames 215 to 225. We have expert testimony to the effect that a shilled markamen would require a minimum time of 2; seconds between whots with this wille. Since the comera operates at 18 1/3 frames per second, there would have to be a minimum of to frames between whots. It is experient therefore, that if Covernor Commily was hit even as late as frame 10, the President would have to have been but no later than frame 190 and probably even earlier.

to determine whether the assessin in fact could have shot the Prosident prior to frame 190. We could locate the position on the ground which corresponds to this frame and it would then be our intent to establish by photography that the assessin could have first the first shot at the President prior to this point. Our intention is not to establish the point with emplote accuracy, but merely to substantiate the hypothesis which underlies the conclusions that Causald was the sole assessin.

I had always assumed that our final report would be accompanied by a surveyor's dispute which would indicate the approximate location of the three choic. We certainly cannot propers such a diagram without establishing that we are describing an occurrence which is physically possible. Our failure to de this will, in my opinion, place this Report in jeopardy chare it is a certainty that others will commine the Zapruder files and raise the same questions which have been raised by our excellention of the films. If we do not attempt to answer these questions with observable facts, others may ensure than with facts which challenge our most besic assumptions, or with facts which challenge our most busic assumptions, or with facts which challenge our wouldingness to test our assumptions by the investigatory methods available to us.

I should add that the facts which we now have in our possession, submitted to us in separate reports from the FMI and Secret Service, are totally incorrect and, if left uncorrected, will present a completely misleading picture.

It may well be that this project should be undertaken by the FRI and Secret Service with our assistance instead of boing done as a stair project. The important thing is that the project be undertaken expeditiously.