CONRIDEAMTAL

## $3 / 7 / 72$

Dear Paul.
I ask that this be kept confidential because thes work is incomplete and in order to reduce the possibilities of any interference with what is still planned and the personal haz $z_{\mathrm{R}}$ rid to the technician who is doing it. There are two exceptions: Alvarez starts up again, and JNS, for whom I have just realized I should have made a carbon, now that he is not close to you, and haven't,

The work was done with a commercial version of Nix, from a TV atation, 16am with soundtrack. While it is far from a real good print, it is also much better than the available 8 m coples.

What was done is thisi each frame was duplicated 3 tiums, after zooming in on a meall part of the frame, the purpose being to isolate the Presidant. The magnification is great, but not so great that some air space above bis hoad is always in each frame. It includes all of his body that is in the filim.

I have not studied this worix with the attention and repetition I would prefer, But I ain not alone in certainty about the three things I report with ceatainty, one of which scems to be in disagrement with virtually ali interpretations of Zapruder:

There is a visible and rather large fragnent of the skull that goes upward and bacizward. The backward itrection is much more pronounced.

The violence of the backward motion ascortainable in the gtuay of the $Z$ slides is strongly confirmed; the violence of the subsequent leftward motion appears to be greater than in this study of $\bar{z}$, and because this is accurately paced (that is, the relationships in time are faithful) and would appear tohave betw cuused iny the same force. There is a dipference in impression caused as conppred with $Z$ in that this strongly sugesets what I cannot assert ai fact and is contrary to what I have decided from $Z$, that the source of the forec is to the direction of the north grassy knoll. I was not willing to say this based on $Z$, This does change wy thiliking on that point. I sugkest that it is applicablo to any conjectured countor-force areumant or postulation.
that is most surprising is that there is no visible forward motion. If I cannot explain this. I cen assure you it is so. I presume the angles account for it and that the angles ereate an illusion in $Z$, plus the fact that this is a rather great spacing, adding all these extra fremes, which shuld tend to reduce optical illusion.

Contiruing work on Z: I now have and will not mail but wili. show you whon you are again here the largest and clearest printed versions of 313 and 314 yet. They were made fon me for a special purposes to study the disperssal-pattern of the spray and the flap and the wound. The pattern is far dowward on the front of the face in a way I cannot explain from anything we have leamed of the wound(s) and in the flat plane seens to be almost all forw ard, an impression I had gained from close stady of motion prints projected and the earlier onlargment, not as gruat. This work consists of a number of different contrats in printing, The flap is entirely forward of the ear, which is clear, very clear. The Frenident's right arm has cocked and roved upward, toward the front of the head (the hand is obliterated by the spray). Thereis what I regard as unexplained and possible illusionary, the impression that the body has squashed downard some, almost verticality.

Contiming work on the earlier frames shows other interesting thing: the possibility that Willis took another picture (recall how long his film was kept) at a later time but still in $Z$ and close to 323 ; that his is viaiblo much, ruch later than admitted bafore total disappsarance behind the sign, and his right hand is visible after ho is clainad to have disappeared, strong suggesting by his motion that he is reacting; and that he either speaks or goes through the motion of speaking, as Kellerraan claimed. The enlargement is such that tho open mouth is alearly visible, as is its closing.

As I reported earlier, there is a splice prior to the section contatined in the slides and, take my word for it, in theoriginal, maaning not in the copies mado in Dellas and hicago but in the version from hich it was known all enlarging and other work was to

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