Part 1. Introduction

Who Assassinated President Kennedy?

On November 22, 1963, in Dallas, Texas, President John F. Acanedy, while riding is an open linousine through Dealey Plaza and waring to the surrounding crowds, was shot to death. Lee harvey Oswald, an ex-Marine, and former visitor to the Soviet Union, was arrested that afternoon in a movie theatre in another section of Dallas; that night he was charged with shooting President honory from the sixth floor costernmost window of the Texes School Book Depository Building overlooking besley Plaza. This act Oswald denied steadily through two days of questioning ino record of questions and answers was ever preserved). Two days later while Oswald was being transferred from one juil to another, he was shotby Jack Puby, a Callas night-club owner, in the basement of the Dallas police station, while mil-Alons of Americans watched on television. The commission of investigation, appointed by President Lynzon B. Johnson, and headed by Chief Justice Earl Warren of the U. S. Supreme Court, published its report in September 1964, and concluded that Oswald was the sole assassin and that there was no conspir-BCY.

In view of the authority of the Warren Commission, that conclusion was accepted by many Americans for a long time. But the conclusion cannot be considered true by any person who carefully considers the Cricial evidence — such as the physics of the shooting, the timing of a number of events, and other important and undeniable facts. In other words, Cowald was not the sole assessin, and there was a conspiracy.

This article will develop that thesis, prove it to be true on the basis of substantial, conclusive evidence, and in particular some analysis of the photographic evidence.

There was in fact a conspiracy. Oswald played a role in the conspiracy, although there is conclusive evidence that on November 22, 1963, he did no shooting at President Kennedy, and that, just as he claimed when he was in the Dallas jail, he was a "patsy." At least three gunmen (and probably four) — none of whom were in the sixth floor easternmost window of the Texas School Book Depository building where the Warren Commission placed Oswald — fired a total of six shots at President Kennedy.

One of these shots missed entirely; one hit Governor John B. Connally, Jr. of Texas, riding with Kennedy; and four hit President Kennedy, one in his throat, one in his back, and two in his head. (The bulk of the undeniable evidence for these statements about the shots consists of:

(a) the physics of the motions of Kennedy and Conally shown in some of frames of the famous film by Araham Zapruder; (b) the locations of the injuries in Kennedy and in Connally; and (c) more than 100 pictures, consisting of more than 30 still photographs and more than 70 frames of mowies.)

More than SO persons were involved in the conspiracy at the time of firing the shots. These persons included members of the Dallas police force (but not all of the Dallas police — and that ac-

Fore from the Publisher: In order to include the article by Richard E. Sprague in this issue of Computers and Autoration, it was necessary to type the article in the typeface of our "Across the Laitor's Dock" elotion, rather than the usual typeface for our articles. We regret only reduction in legibility that may have resulted.

counts for some strange events), elements of the Central Intelligence Agency, some anti-Castro Cuman extles, some adventurers from New Orleans, and some other groups. After the assassination, some very highly placed persons in the United States, government hecame accessories to the crime. In other words, they participated in assiduous concealment of important facts, in shielding the perpetrators of the crime, and in spreading a thick layer of rewritten history (in the manner of George Orwell's famous novel "1964") over the whole crime.

Of course, asserting these statements mikes them neither true acr believable. Without very strong As to believability, prior to District Attorney Jim Garrison's trial of Clay Shaw in New Cricans in Feb. and Barch, 1969, public opinion polis in the United States showed that over 75 percent of the people in the United States believed that there was a conspiracy. The press, radio, and 1/ &lmost everywhere in the United States reported Garffison's investigation and the New Orleans trial in a very distorted way. Furthermore, Garrison did not prove to the satisfaction of the New Orleans jury that Clay Shaw was involved in the conspiracy, even though he proved that Shaw knew and met Oswald. The news media of the United States (except for two newspapers in New Orleans) reported the trial in such a way as to show that no conspiracy existed. The media largely succeeded in changing U.S. (white opinion, if we judge from the falling off of the poli percentages.

But the Casted States' media have been proved wrong many times before, and they will be proved wrong again in this case. For example, the press of the United States almost entirely refused to believe for five years (1903 to 1908) that the Wright brothers had flown in a flying machine heavier than air. Only after the Wright brothers had won spectacular air races and demonstrated other successful flights in France, did the majority of the "hardheaded" American press believe that the Wright brothers had flown!

But the evidence cited or referred to in this article, and the existing photographic evidence and its analysis, a little of which is published here, establishes the fact of conspiracy. This evidence along with other evidence should and can initialize a major change in the beliefs of the people of the United States. As for beliefs of the people of Europe, it has long been and still is accepted there that President John F. Kennedy was assessinated by a conspiracy.

What is the Evidence?

The evidence for the statement — "the Warren Commission conclusions are false" — is now over-whelming.

There now exists not only a mountain of new evidence, but also considerable new analysis of the old evidence, the evidence which the Commission itself published in the 26 volumes of Evidence and Hearings accompanying the Warren Report. Such of the new evidence and the new analyses of the old evidence are available for any serious researcher's inspection; if any such person is interested, he should write me.

There are four prime sources of new evidence and analysis:

1. Researchers all over the United States, some affiliated with the National Corplitee to Investigate Assassinations (ACTIA), others acting independently but cooperating with the NCTIA, have obtained new evidence from witnesses, and even from conspirators — including admissions and confessions.

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3. Researchers have produced scientific, solidly-based analyses of the old and new cylchere and published these analyses in books and articles.

4. The office of District Attorney Jim Garrison in New Orleans has, writer his direction, cerried on (and continues to carry on) an extensive investigation of President Kennedy's assassination. Much of this evident

dence has been made available to the NCTIA.

This article concentrates on some of the photographic evidence and problems of computerized analysis. However, for the benefit of readers who would like to examine some of the other evidence, a few very important and interesting references will be mentioned next.

Four Important Reference Books

One valuable book is Six Seconds in Dallas, by Professor Josiah Thompson, a professor of philosophy at lieverford College, lieverford, Pa., published in 19th by Bernard Gets and Associates, New York, 323 Thompson made a thorough and competent analpages. ysis of the happenings during the six seconds when President Kennedy and Governor Connally of Texas With the cooperation of Life magazine were shot. during the first part of his investigation, he looked at the clear original of the Zapruder film. (After that, Life magazine locked the film up and denied any further access, until Garrison subpoensed the film for the New Orleans trial of Clay Shaw.) Thompson showed that at least three gunmen shot at the President, and that one of the fatal shots came from the front and not the back.

Another injectably scholarly book is Accessories after the Fact. by Sylvia Heagher, published in 1907 by dobbs Merrill Co., Ingianapolis, Ind., 477 pages. She presents a most thorough analysis of the gaps, conflicts, contradictions, and failures to investigate, that are clearly revealed by careful study of the Warren Commission Report and the 26

volumes of supporting documents.

A third important book is <u>Inquest</u>: <u>the Warren</u>
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Commission and the Establishment of Truth, by Edward Jay Epstein, published by the Viking Press.
New York, N.Y., 1966, 224 pp. Epstein makes a pregnant remark at the beginning of his Chapter 9. "The major problem in the writing of the Report was the selection of the evidence. From the tens of thousands of pages of evidence, which facts were to be included and which facts excluded?" This book is an illuminating account of what actually did happen in the work of the staff of the Narren Commission, and why and how they could have reached the wrong

conclusions. A fourth significant book is Farewell America. by James Hepburn, published in Canada and in Belgium by Frontiers Publishing Co., Vaduz, Liechten-stein, 1968, 418 pp. (One cannot be sued in Liech-tenstein.) This book is apparently based largely on information collected by certain former members of the French intelligence service, who penetrated the plot to assassinate President Kennedy. According to the book jacket, the author, James Hepburn, Accordattended the London School of Economics and later graduated from the Institute of Political Studies in Paris. (llowever, "Hepburn" is a pseudonym.) The book gives a large amount of information about the plot to assassinate Kennedy, its background, and parallels in history. The book alwages that J. Edgar Hoover knew of the plot beforehand and did nothing to stop it. It also alleges that a Texas oil millionaire, some other oil men, some Texas and

government, many members of the United Police Department, and many members of the United Police Department, and many members of the CIA, the FUI. and the Secret Service, all were involved in the plot. I do not agree with nor believe some of these allegations.

Appendix 1 of this book lists many "classified" documents in the National Archives of the United States, such as no. 931, a secret CIA document entitled "Oswald's access to information about the U-2" (the spy plane). Appendix 2 lists more references, catitled "reports, memoranda, and documents such as "Dossier Richard M. Helns", "General Dynamics Dossier Fill" — but how to get access to these references is nowhere neationed. Pages 300 to 324 contain a remarkable account of twenty years activity by the CIA. Much of the information in the book is clearly true; other information is probable or plausible; some information is clearly in the category "possible but hard to believe" and by no means proved.

For reasons that may be guessed, this book is very hard to obtain in the United States but it can be bought in other countries. Although it has Library of Congress catalog no. 68-57371, at the Library of Congress it is "not available". Commercial importation of the book has been blocked by the U.S. Customs and the U.S. Post Office. A movie with the same title has been made by the publishers of the book; the movie, "Farewell America", has been shown in saveral European cities, but no copies of the film are so far available in the United States.

A number of important reference tooks are included in the partial bibliography at the end of this article. Among the more important authors are Harold Weisberg, Paris Planmance, Mark Lane, Rosemary Jemes, Joachim Joesten, and Raymond Marcus. A fuller bibliography is available from the NCTIA.

The New Orleans Trial of Clay Shaw

One of the largest additional installments of new <u>public</u> evidence came out of three weeks of court testimony given in New Orleans, Feb. and March, 1969, when District Attorney Jim Garrison charged Clay Shaw with having a part in the conspiracy to assessinate President Keiledy.

The trial was accurately and very fully reported in The Times Picayune. Feb. 7, 1909 to March 2, 1969, the leading daily paper in New Orleans, published since 1847. The record of the trial as published in The Times Picayune contains many indications that:

1. Clay Shaw did know and neet with Lee Harvey.

- Clay Shaw did know and eeet with Lee Harvey Oswald (dead), David Ferrie (dead), and Jack Ruby (dead), and exchange money with them. Twelve witnesses saw them together in twos and threes, at various times and places.
- 2. There were at least three gunnen in Deeley
 Plaza firing at President Kennedy on November 22, 1963, from at least two directions,
 and therefore there was a conspiracy.
 What Garrison failed to prove to the satisfaction of
 the New Orleans jury was that Clay Shaw was involved
 in the conspiracy in Dallas.

The Miami Police Tape

Among the pieces of new public evidence is the "Miami Police Tape." In September 1963, President John F. Kennedy gave a speech in Miami, Florida. Prior to this time a Miami police informer who had infiltrated the National States Rights Party interviewed one of its chieftains, a Mr. Milteer, in a hotel room in Miami. Unknown to Milteer the room had been bugged by the Miami police and the interview was taped. The informer drew Milteer out on

the subject of assassinations. Militer said that Jack Kennedy was going to be assassinated either in kiani or in some other city by Individuals who were connected with right wing groups including the Minmete Men and the National States Rights Party. He said it would be done with a high-power rifle from a high point in a city fullding and that a patsy would be pieced up by the police afterwards. He said a can using the name Brown was the most likely one to do it. He added that Brown had been following Martin Luther King around the country for several months trying to assassinate him too.

The Miami police turned the information over to the FBI, who informed the Miami police that they had turned it over to the Secret Service.

Kennedy was well protected in Miami and exposed himself as little as possible, apparently partly as a result of the Secret Service receiving the information.

On the morning of November 22, 1963, Militer telephoned the informer to say that Jack Kennedy was coming that day to Bailas, and would probably never be seen in Miami again. The informer interpreted this to rean that Kennedy would be shot in Dallas, and says that he reported this information to the Miami police. The Kiami police in turn reported the information to the Miami police of the FBI.

After the assassination, the Miani police assumed that either the FBI or the Secret Service were following up on these leads. So the Hlaml palice remained silent. When District Attorner Jim Garrison contacted them in late 1966, prior to public announcement of his investigation, the Miami police learned of Garrison's evidence about a conspir-They became very disturbed, and then decided in January 1907 to make the tape public. (Garrison's investigation did not become public until February 1967.) The Mismi tape was played for a group of newsmen in the Mismi police headquarters in January 1967. Stories about the tape appeared in several newspapers, but not in The New York Times nor in other leading newspapers, in spite of the importance of the story.

The FBI and the Secret Service had all the above information from the Mismi police prior to the formation of the Marren Commission. Yet none of the above information appears in the Marren Commission Report, in the 26 accompanying volumes, or in the Marren Commission erchives which have been made public.

Oswald's Message to the FBI

Among other evidence collected by Garrison (and confirmed by Mark Lane) is the fact that Oswald telest phoned the Dallas. Texas, office of the FRI on November 20, 1963, and told them that President Kennedy was going to be assassinated on November 22. An FBI teletype message was sent that day to J. Edgar Hoover with that information. A repeat teletype message with that information was also sent on that day to the New Orleans office of the FBI, apparently because of Oswald's former presence in New Orleans.

A clerk in the New Orleans office of the FBI revealed the existence of the teletype message, and gave a deposition to that effect to Garrison. He also revealed the existence of that teletype message to Attorney Mark Lane after Garrison's lavestigation was made public. No statement about this message appears in the Warren Commission Report, in the twenty-six accempanying volumes, or in the Marren Commission Archives.

The Radio Communicator

One of the interesting events prior to the trial of Clay Shaw in 1969 was the finding of a man named

Jin Hicks. He showed up voluntarily in Garrison's office. Garrison and one of the researchers. Jones Harris, suddenly realized that they had seen his picture before, as one of the persons in healty Plara near the time of the fatal shooting (See Fig. 11). Hicks admitted that he was the radio communicator among the rifle teams since they were out of sight from each other, and of course each team would need to know what was going on. Jim Hicks had set up a communications center at the Adolphus Hotel prior to the assassination. The photograph Harris had seen is a picture of Jim Hicks in Dealey Plaza just after the shots, with his radio in his left rear trouser pocket and antenna hanging down outside. (See the foreground of Figure 11.)

Since the time of his admissions, Jim Hicks has been locked up in an Air Force Hospital for the insane located in Oklahoma.

Strange Events

In the Warren Commission's activities, there are many stronge events, extraordinary patterns of behavior, and important unanswered questions to which the Warren Commission paid almost no attention. There are more than SG instances of these strange events — where the Warren Commission did not look, or looked aside, as if they were trying not to see. Among these are the following:

Crucial records were burned or destroyed.
 For example, Commander J. J. Humes, chief autopsy surgeon, personally burned in his fireplace on Nov. 24, 1963 his preliminary draft of the autopsy report. The Warren Commission accepted this action as natural.

- Crucial physical evidence was destroyed, as
 in (a) washing of Governor Connally's bullet-penetrated clothing, before it was examined by the Commission's staff, and (b)
 the prompt rebuilding of the presidential
 limousine, so that it could no longer be
 examined for bullet marks; etc. The Warren
 Commission accepted these actions without
 questioning.
- 3. The Warren Commission did not examine the autopsy X-rays and photographs of President Kennedy. In fact, the photographs were not even developed until two years after President Kennedy's death. The Kennedy family and Burke Narshall, their luwyer, assisted in locking them up.
- 4. The Warren Commission accepted the sudden appearance of a pristine builet (Commission Exhibit 399) fitting Oswald's gun, on the wrong stretcher in Parkland No:pital, and the Commission assumed that it "fell" out of Governor Connelly.
- The Warren Commission (in an admitted error)
 published Zapruder frames 314 and 315 in
 reversed order, so that the motion of JFK's
 head after the fatal shot was reversed.
- 6. The Warren Commission ignored the visible and violent backward motion of President Kennedy's head shown in the Zaptuder film at the instant of the fatal short a motion that conclusively shows that the President was fatally shot from the front.
- 7. The Warren Commission failed to investigate many possible motives for shooting President Kennedy, and who would profit thereby. Etc. Perhaps the strangest of all the events are some events that took place after the Warren Commission made their report:
 - 1. President Lyndon B. Johnson issued an executive order locking up in the Archives of

J. S. C.



View of Dealey Plaza shortly after the assassination, showing Jim Hicks, the radio communicator among the firing teams, in the foreground, with radio in pocket, and "S"-shaped entenna hanging down. (Table 3, No. 87)

the United States for 75 years as "confidential, secret, and top secret," over 100 important relevant reports and memoranda. The list of the titles of these extraordinary documents was obtained and published in the Saturday Evening Post on April 6, 1966.

2. Chief Justice Earl Warren has steadily refused to consider any new evidence. As recently as 1967 he told newsmen, "I know of no new evidence, and have seen no new evidence." It is a fact that such new evidence exists in large quantities. This strange attitude may be coupled with Warren's steady silence in response to letters.

No scientist, no honest man, ever refuses to look at new evidence. The kind of action which locks a-way old evidence, and refuses to look at new evidence, is not the kind of action of honest scientists and honest men.

Basically, the Warren Commission picked up the Dallas police hypothesis, that Lee Harvey Oswald was the sole assassin and there was no conspiracy. Once they chose this hypothesis (and they chose it very early), they assiduously tried to confirm it, partly by selecting evidence, partly by suppressing information which they knew, and partly by altering evidence to the opposite—in other words, falsifying evidence. Their candidate for assassination vehemently denied (for two days before being killed by Jack Ruby) participating in or knowing about the assassination of President Kennedy. He also positively stated that he had been made a potsy, a fall guy. He also said that the photograph of him holding a rifle was a fake, saying, "That's my head but not my body." (That photograph is demonstrably a fake.)

Over 50,000 items of evidence exist which support and mutually confirm a contrasting hypothesis. hypothesis is that there was a conspiracy, and that at least four persons shot at President Kennedy, and that more than 50 persons were involved in the conspiracy. In fact, about 6 persons who participated in the conspiracy have admitted their participation and described what happened in their own involvement. All of these items of evidence collected confirm the information in all of the photographs, and are very largely consistent. I do not allege that the CIA, the Secret Service, Lyndon B. Johnson, and certain other prominent individuals participated is the conspiracy before the assassination occurred. I do assert that these individuals and agencies. after the assassination occurred, participated in covering up and concealing the conspiracy and thereby became accessories after the fact. The evidence referred to is available under appropriate circumstances to an untainted Congressional investigation.

Part 2. The Photographic Evidence

Over 510 Photographs

The assassination of President John F. Kennedy was the most photographed murder in history. Approximately 75 photographers took a total of approximately 510 photographs, either before or during or within an hour after the events in Dealey Plaza, and either there or nearby or related to those events. The word "photograph" in this context includes both still photos and movie sequences. The number of frames in a movie sequence ranges from about 10 to about 500; and in the count of 510 photographs given above, the 10 to 500 frames of a single movie sequence are counted just as one photograph. The tetal number of frames is over 25,000.

The Warren Cormission examined 20 photographs, about 5 percent of the 510. The fill examined about 50 photographs, or about 10 percent. The most famous of all the photographs is the Zapruder film, which had over 400 frames.

Hany of the photographs were taken by professional photographers. About 30 of the photographers were professionals who worked for newspapers, television networks, and photographic agencies.

The Warren Cormission did not interview a single one of the professional photographers, nor did the Warren Cormission see any of their photographs.

Fifteen of these professionals were actually in the Kennedy motorcade, no further than 6 car lengths behind the Kennedy car. Five of these photographeers were television network cameramen. The marren Commission looked at none of their photographs.

Two of the photographers were from the white House. One of these men (Thomas Atkins) was the regular photographer for the white House. He made a special film for Lyndon B. Johnson. Atkins used his own film plus some footoge obtained from the television photographers. Johnson looked at the film and then put it may. This film is now stored with the Kennedy Remortal Library materials in a warehouse in Washington, D.C.: It is stated to be "unavailable" to researchers. The Commission did not see this film, not did they interview Atkins.

Because the professionals used movie cameras of professional quality, their films are exceedingly revealing and valuable as primary evidence. The Warren Commission looked at none of these films.

During the past several years, I have collected copies of over 200 of these photographs, and I have looked at and taken notes on another 200 of these photographs, without obtaining copies of them. Some of the remaining 100 have either not been found or have been locked up or destroyed by the owners, who are fearful of the information they show. Or they have been locked up by the FBI, who have either placed them in files inaccessible to the public or possibly have destroyed them. (See Table 2.)

Chart 2 of this article shows the times of about 50 of the photographs taken in Dealey Plaza during Kennedy's passage through it.

Table 3 of this article lists over 510 photographs so far identified and known to exist or to have existed — with possibly a few borderline cases

have existed — with possibly a few borderline cases. Most of the "official" photographs of the Warren Commission, or of the FBI, or of the Dallas Police, which are in the Warren Commission Report or in the 26 volumes of the Warren Commission's Evidence and Hearings, are not included in the list of Table 3, because such photographs were taken more than one hour after the shots were fired.

The 6th Floor Easternmost Window

According to the Warren report. Oswald was supposed to have fired a rifle from the 6th floor essternmost window of the Texas School Book Depository Building. (See Chart 1) Among the photographs there are several that show this window. Accompanying this article are copies of two photographs, one showing this window exactly 5.7 seconds before the first shot and one showing this window exactly 3.5 seconds after the last shot. (See Figs. 6 and 7) The first photograph (Table 3, No. 8) was taken by photographer flughes, and shows the window with only a box appearing in it. The second (Table 3. No. 121) was taken by photographer Dillard and shows the window with only the box in it. There is a photograph taken by Norman Similas taken during the shooting which is now in the possession of the FBI (see Tables 2 and 3, No. 494). A possible reason for the FBI not to reveal or display this photograph is that it was taken between the first and the last

É,

shots, and shows the window empty except for the box. Oswald and his rifle are not in this window -- which would be complete proof that he was not there. Norman Similas, and also an editor of <u>Liberty</u> magazine in Canada, saw this photo, however, and both state that the window was empty.

Even without the availability of the Sinilas photo, the other two pictures destroy the warren Commission's findings and the testimony of their key witnesses. The witner as notably lloward Brennan, said that the assassin was leaning out of the window and poking the rifle well out of the window both before and after the shots were fired.

The Warren Commission offers other evidence. The evidence consists of: three bullet casings "found" on the floor near that window; the three boxes arranged in the window to look like a gun rest; and the bullet (Commission Exhibit 399) which supposedly passed through both Kennedy and Connaily. All this evidence can be demonstrated to be faked.

All this evidence can be demonstrated to be faked.

Thotographs coupled with testimony prove that the
Dallas authorities altered the "sixth floor TSBD"
evidence. The alterations were as follows:

The original setting up of the bullet casings was too obviously faked. Sheriff Roger Craig arrived on the scene first and sow the three casings, side by side, neatly pointing in the same discrition, just inches apart. By the time the "official" police photographer, Mr. Studebaker (who in reality was an anateur photographer with only two months experience), took pictures of them, the casings had been scattered around the floor by some member of the police force.

Similarly, the original position of the boxes making up the so-called "gun rest", was so obviously inadequate, that the police moved them to look a lot more like a gun rest. Jack Beers, Ballas Worning News photographer, took photos of the boxes at 4 pa while they were still in their original position. This fact is confirmed by several photos taken at the time of the shots from outside the building showing the corner of the toomost box stacked three high.

Dy the time Studebaker took photos of the boxes, used as Exhibits by the Warren Commission, it was after dark, and the woxes had been rearranged so that they were only two deep, with the third one moved onto the window sill. Checking the position of the corner of this box as it would appear from the outside of the building, shows that it is in a quite different east-west lateral location than the corner actually showed itself to be in the photos taken at 12:30 pm to 1 pm. (Dillard, Hughes, Beers, Weaver, Willis, Murray).

The net result of all this evidence collectively

The net result of all this evidence collectively is the following proved conclusion: No one fired any shots on November 22, 1963 between noon and one pa from the sixth floor easternmost window of the TSRA

The Zapruder Movie

Of all the photographs taken in Dealey Plaza on that fateful day, the color movie sequence of some 600 frames taken by Abraham Zapruder is the most important. It shows from the right hand side of the motorcade the entire sequence of events, from President Kennedy rounding the curve from Houston St. into Elm St., through all the shooting, until the big presidential limousine left with the dead president going under the triple overpass off to Parkland Hospital. This film almost by itself, with careful, scientific analysis, establishes the times of five of the shots.

The Warren Commission received the original of the Zapruder film to look at, on loan from Life magazine, which bought it from Zapruder.

From that time on, the film was never publicly snown, but remained in the locked files of Life. But a direct copy of the original was subponned and shown NIDE times by Assistant District Attorney Alvin Oser in New Orleans in February 1969, at the trial of Clay Shaw. The judge, the jury, the newspaper reporters, and the spectators in the court room all became convinced that Oser and Garrison had demonstrated a conspiracy to kill President Kennedy.

when one sees and studies in detail the Zapruder film in its clear version and examines the other photographs showing the effects of the shots, one becomes convinced of two statements:

- 1. There were six shots, of which five hit persons in the Kennedy car; of these five the first went through the throat of Fresident Kennedy; the second struck Kennedy in the back; the third struck Governor Connally in the right shoulder; the fourth and fifth struck Piesident Kennedy nearly simultaneously in the head and blow out his breins. The remaining shot missed and struck a curbstone on Nain St.
- 2. The last of the five shots (coming from the grassy knoll area), and one of the two fatal shots, struck Kennedy from the front and to the right, hurling his head to the left and backwards with great force, in accordance with the laws of physics. (For a scientific analysis, see <u>Six Seconds in Ballas.</u>)

Either one of these statements renders impossible the Warren Commission Report's conclusion, that only three shots were fired, the second one missing eatirely and striking the curb of Nain St.

Coviously, if there was a conspiracy, it becomes witally necessary to prevent the American people from sceing the Zapruder film, clear and complete, and especially in motion. For over six years, except in New Orleans, this has been achieved. However, currently, bootleg copies of the Zapruder film are on sale here and there in the United States at prices ranging from \$10 to \$50, available for private and illegal showings, since Life magazine cwas the original and has never given permission for copies of the film to be sold. Many of these bootleg copies, because of lack of clarity, do not demonstrate the first statement; but they do demonstrate convincingly the second statement, the backward thrust of President Kennedy's head at the time of the fatal shot.

Life magazine would be able to earn millions of dollars from showing the Zapruder film. In three days of showing the Zapruder film, uncut, clear, and not tampered with, on national television, every person in the United States who watched television could see for himself that more than three shots were fired (which makes the Warren Commission conclusions nonsense) and could see that the fatal shot thrust Kennedy's head backwards with great force (proving that he was hit from the front, and not the back, which also makes the Warren Commission conclusions nonsense). Although the Warren Commission report was silent on this last point. some defenders have tried to explain away the backward motion by conjecturing a speedup in the car' motion causing a "snap backward". The Zapruder film by itself shows this is not true. One can clearly see that the car does not speed up at the time, and that Mrs. Kennedy's head does not snap at

Other explanations have been offered, such as a whiplash motion, caused by Konnedy's neck brace, or a reverse explosion as the bullet from the rear exited Kennedy's head in front. Josiah Thompson's analysis in 51x Seconds in Dallan, proves beyond a

shadow of a doubt, that only the force of a high velocity builet striking kennedy's head from the front could produce the head acceleration backward shown in Engineer frames 313 through 315, and ocasurable therefron.

Hore than a dozen other photos confirm that there were more than three shots.

Other Activities at the Time of the Shots

The photographs taken at the time of the shots (see Chart 2) show many other significant and important activities. Coupled with the testimony of photographers and other witnesses, the photos prove the Earren Comission wrong an several other points. To describe all of these points in detail requires more space than is here available. But the following list summarizes these activities and conclusions (see also Chart 1 for timing and direction of about).

e. The first shot, fired by man #1 from behind the fence on the grassy knoll, hit Kennedy in the throat at 2109 (Z numbers in the text and on the Min refer to frame #s of the Zapruder film. The frames were 1/10 second apart. The Z numbers on the map show the location of Kennedy in each Zapruder frame).

b. The second shot, fixed by man *6 from the second floor window of the Dal Tex Building, struck Kennedy in the back at Z226.

c. The third shot, fired by man 40 from the Tras School Book Uppository (TSBD) hit Connally in the back at 7230.

d. The fourth shot fired by man #6 from the Dal Tex Building struck the curb on the south side of Main St. at about Z205.

The fifth shot fired by man #0 from the TSBO hit Kennedy in the head at Z312+.

 The sixth shot fired by man #5 from the grassy knoll hit Kennedy in the head at Z313.

g. Man *2 "created" a puff of smoke as an apparent diversion (as it turned out, the diversion was not needed) and then ran back beyond the position of man *1 and jumped over the fence.

h. The timing of the first shot established by three photos — Zapruder, Killis (Table 3, No. 05), and Betzner (Table 3, No. 101) — to be Z109, was such that the view of Kennedy from the sixth floor easternmost window of the TSBO, was completely obscured by a large oak tree. (Bl1 on Chart 1)

1. A man who looked very like Oswald ran down the grassy knoll ten minutes after the shots were fired and drove away down Elm St. with a Latin-appearing man in a light-colored station wayon with a luggage rack. To someone not familiar with all of the millions of details of the Kennedy assassination, this seems unrelated. However, other evidence indicates the man may have been an anti-Castro adventurer impersonating Oswald, and that the Latin may have been another of the satin-Castro Cubans.

Mon Who Ran Away

Many photographs were taken within an hour after the shots, which show that certain men on the grassy knoll ran away after the firing, and these photographs show how they ran away.

For example, several photographs (Table 3, Nos. 3, 19, and 52) show a certain man, who has been

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رية المراجعة ومعهد المراجعة ما يا المراجعة

inheled for the present as a summer.

If the man who fired the fatal shot, shot inc. 6.
His position has been shown on the map in area 116.
The photos show that he escaped by means of a white car, which had been previously parked just a few feet from his position.

This subject has been investigated at length by the researchers, but the investigation has not been finished. It may be that the investigation cannot be adequately concluded until computerized analysis of the information in the photographs (see Part 3) has progressed much further.

The photos also show where and how men *2.3 G 4 ran away after the shots.

The "Tramps" and the "Phoney Policemen"

Approximately a half hour after the shots were fired. Sergeant D. V. Harkness of the Dallas Policewas instructed by Inspector Sowyer of the Dallas Police (in command of Dealey Plaza police activities after the assassination) to go back to the railroad tracks (see Map and Fig. 1) and stop a freight train which was being moved out and search it. (The approximate time is established by the angles of the shodows in the photographs, by the testimony of Dergeant Harkness to the Warren Commission, Vol. 6, p. 312, and by the timing of Wo. Allen's sequence of photos.) The area where the freight cars were located is to the north and west of the TSWO, and north of the grassy knoll area.

Sergeant Harkness says he arrested some "tramps" or "hoboes" whom he found in one of the box cars in the railroad area. He says he took them to the station and does not say what station he meant. However, Sheriff Elkins said that a policeman brought three "tramps" into the Sheriff's office. (See map and Fig. 1.)

The route that linkness would naturally take if he went to the Sheriff's office with the three "tramps" is exactly the route portrayed in the series of four photographs (Figs. 2, 3, 4, and 5), shown in this article. In Figs. 2, 4 and 5, two policemen can be seen escorting three "tramps" enstward from the direction of the railroad yards along the Ein Street extension in front of the TSBU (Fig. 4) and proceed down Houston St. to the Sheriff's office. The vehicle entrance to the office is located at the center of the block on the east side of Houston St. between Ein St. and Main St. The entrance is directly in front of the five men as they proceed toward it in Fig. 5.

they proceed toward it in Fig. S.

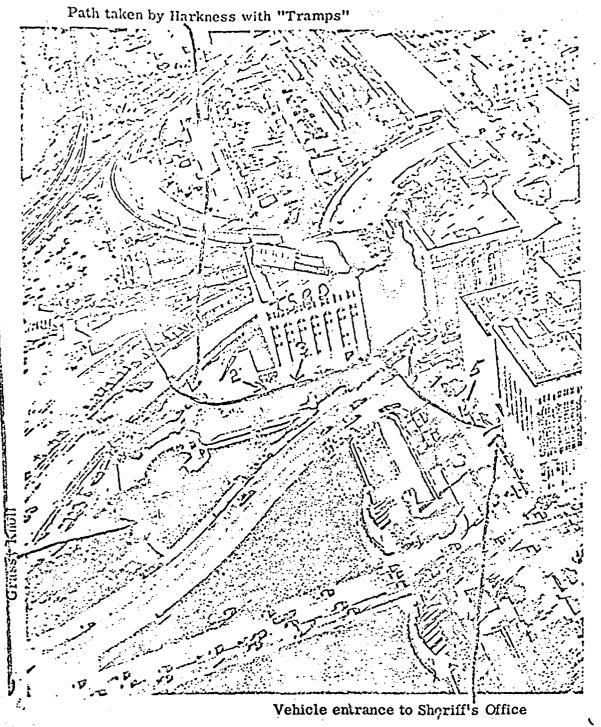
Why is this significant? First, there is no record at all of the arrest of these men — there is no record of their official booking nor of their release, even though Sheriff Elkins testified that he turned them over to Captain Will Fritz of the Dallas Police in the police station. Furthermore, there is no record in the Dallas police force of the "phoney" policeman at the right in Fig. 2. He is wearing non-regulation shoes or possibly rabbers; and in his right enr is either a radio communications device or a hearless and

tions device or a hearing aid.

Sergeant Harkness and Sheriff Elkins both indicate there was no other policeman with Harkness when he arrested the "tramps" and when he surned them over to Elkins.

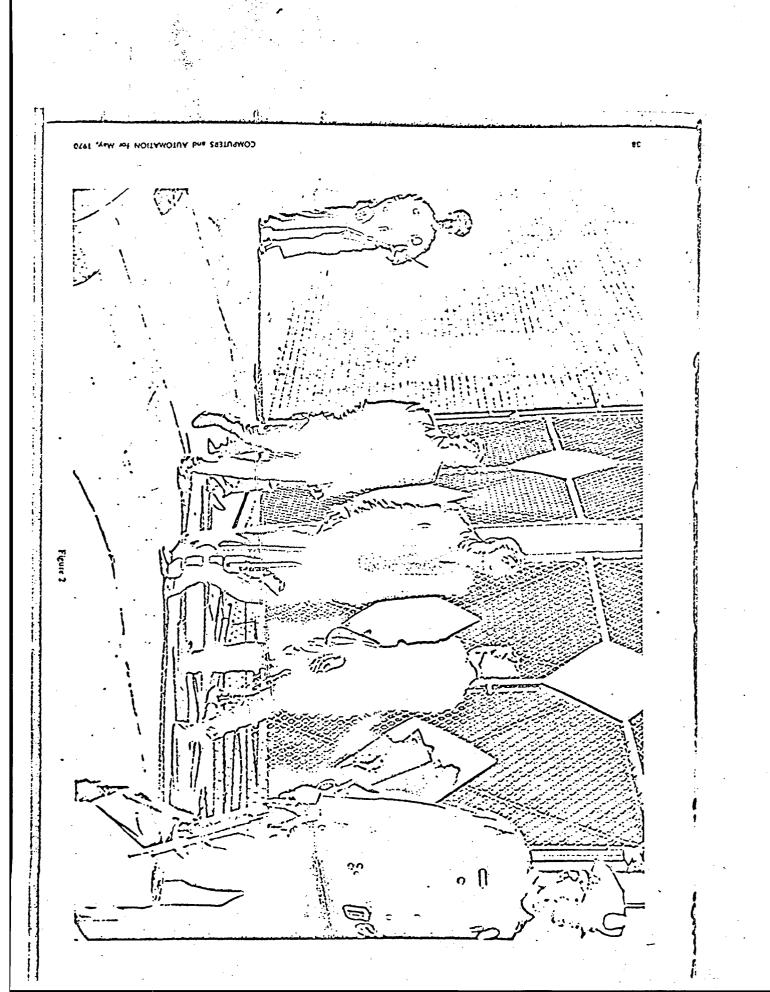
Other information indicates that one or more of these "tramps" were members of right wing groups and were actually included among the gunnea who shot or shot at President Kennzy. If any reader of this article notices any person resembling any one of the "tramps" or the "phoney" policeman, it would be useful for him to send information to me.

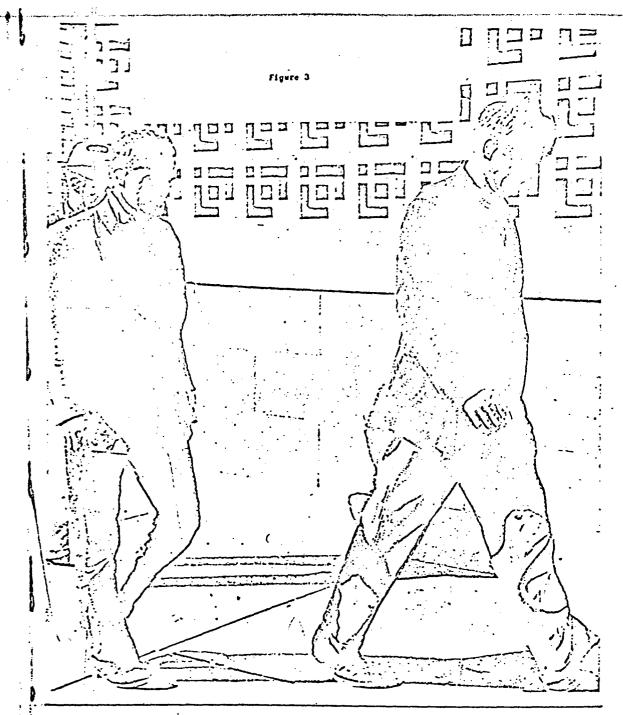
(Text continued on page 50)



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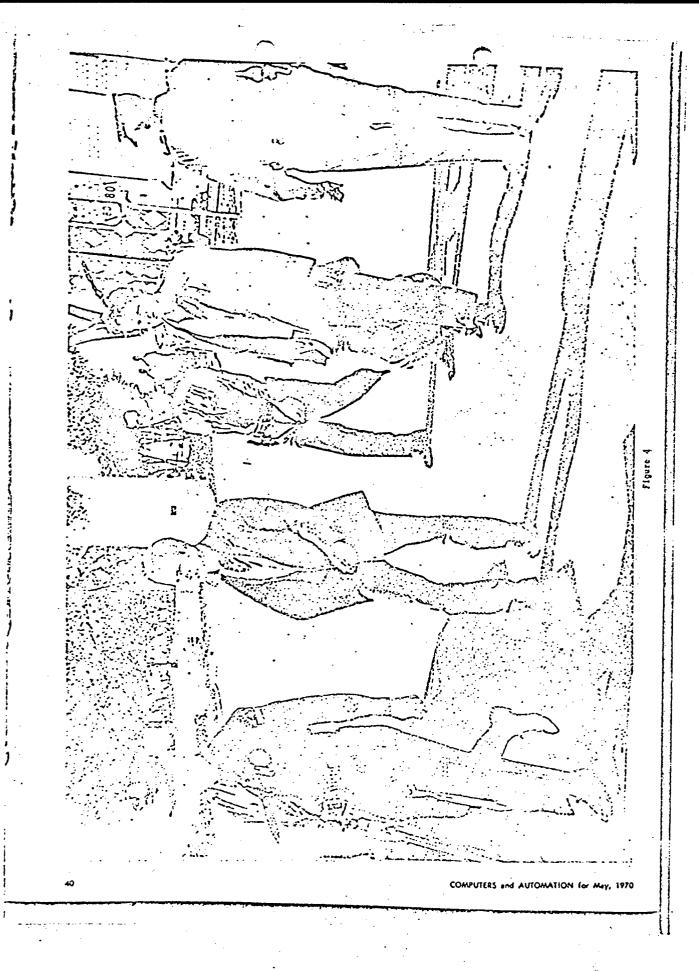
Helicopter view of Dealey Plaza and its buildings, with the path of the arrested "Tramps" marked. Numbers on the photograph indicate where photographs in Figures 2, 3, 4 and 5 were taken.

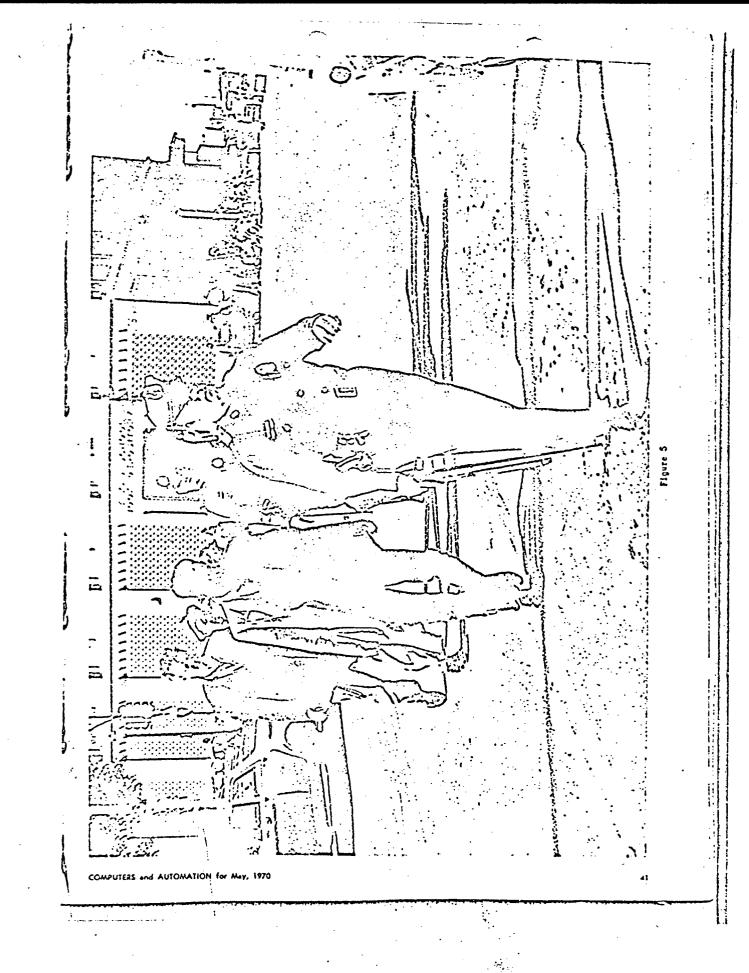


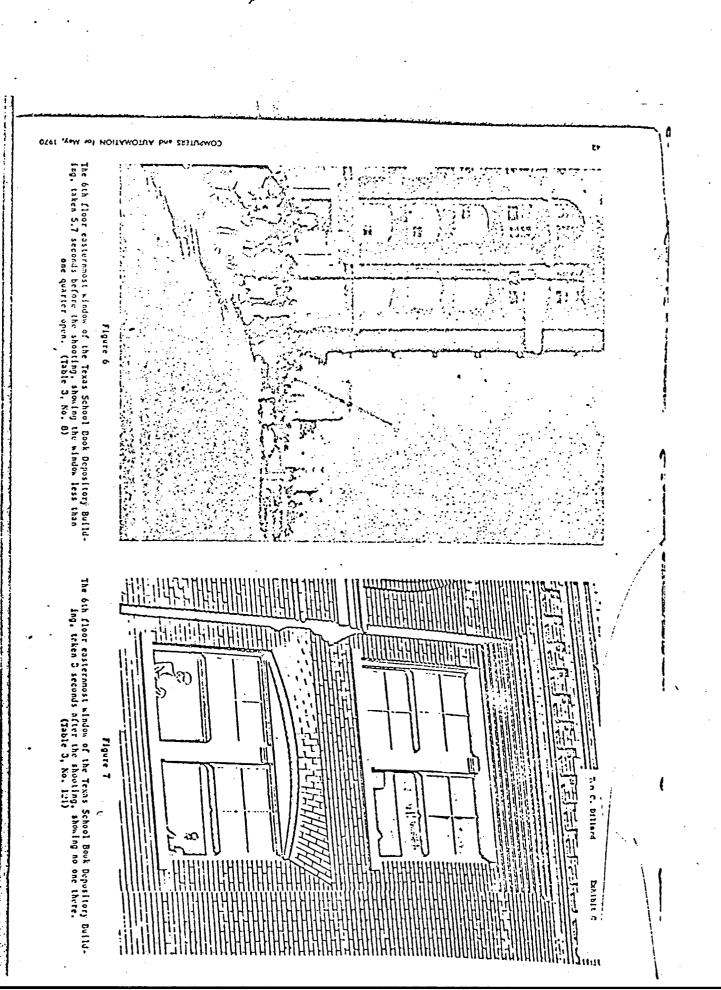


Figures 2, 3, 4 and 5

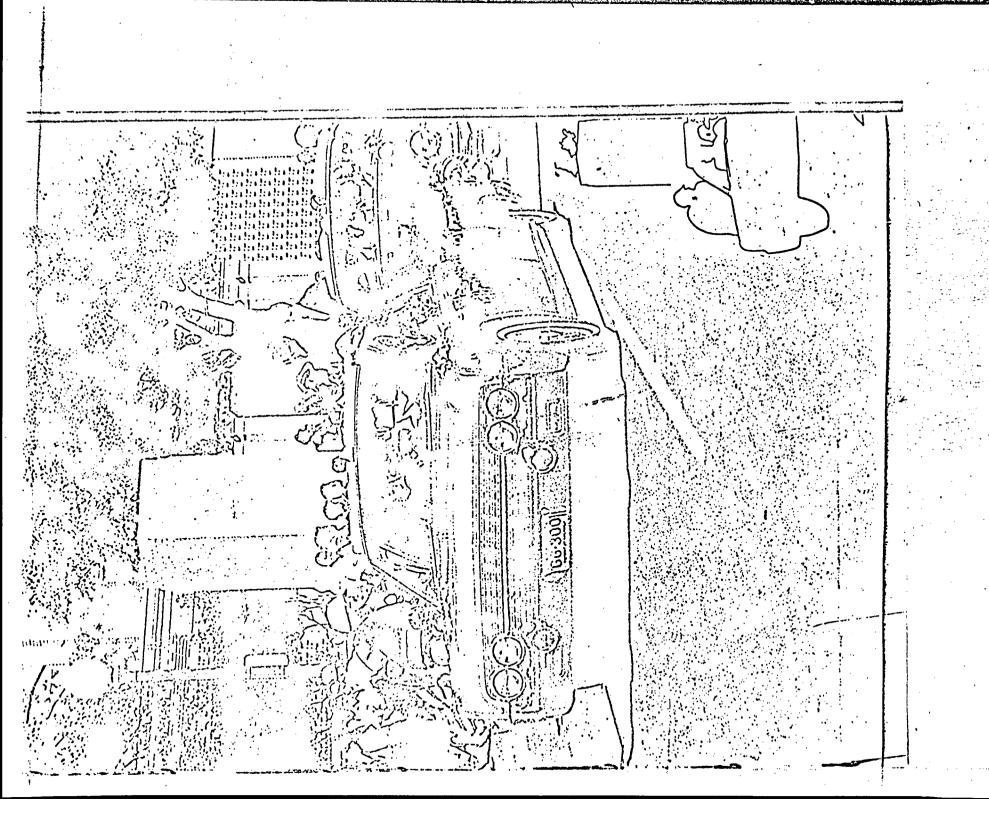
These four pictures of the "Tramps" and various policemen were taken by George Smith and Killiam Alien (see Table 3. Nos. 195, 197, 251 and 252). Sergeant Harkness appears in Figures 2, 4 and 5 (at the left in Figures 2 and 4, and in the front in Figure 5). The "Phoney" Policeman also appears in these same three figures (at the right in Figure 2, and at the rear in Figures 4 and 5). There is no record of this man being a member of the Dallas Police Force. He is the only Dallas policeman of those appearing in the hundreds of photographs taken Nov. 22 who is wearing an earpiece or radio communication device in his right car (see Figure 2). Why? He is the only one who is wearing rubbers. Why? His pistol handle appears to be different from Harkness' pistol. Why? It would be interesting to discover this man's identity, and ask him some questions.

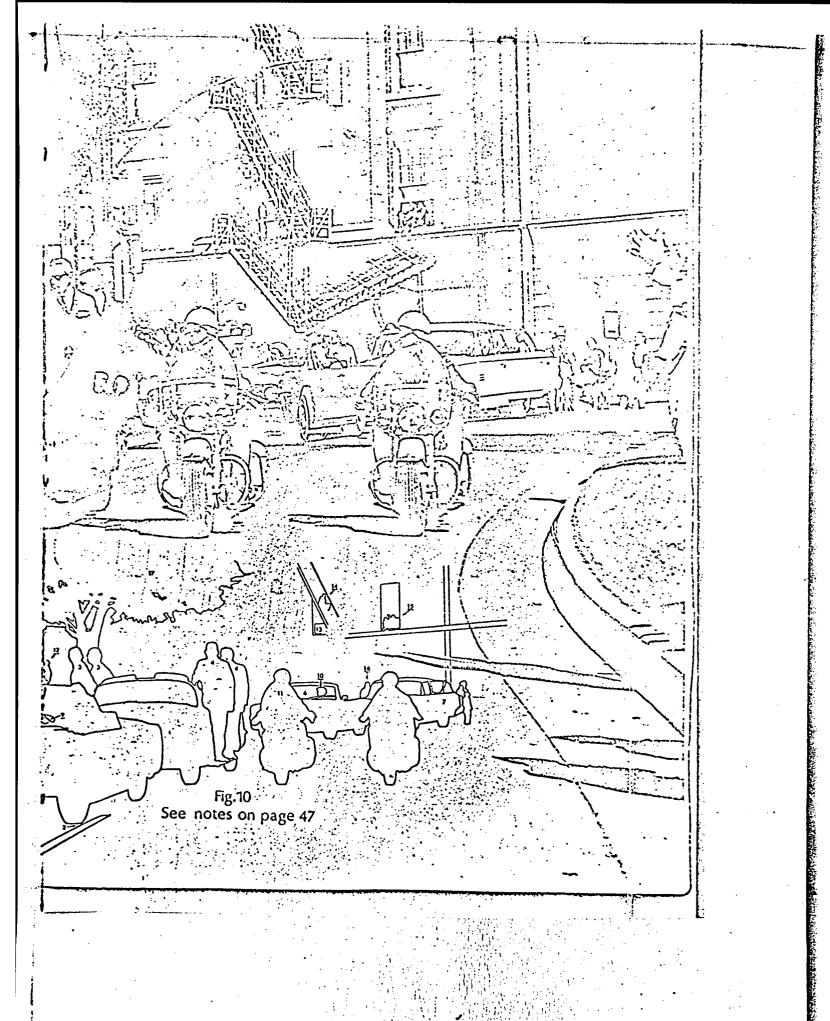






The second second second second





INDEX AND CHIDE TO LOCATION OF PERSONS AND SIGNIFICANT COLECTS IN THE SPATIAL CHART OF DEALET PLAZA

(See Chart 1, pages 40 and 49)

1. Areas on the Chart. The spatial chart is divided into square areas 20 feet by 29 feet, each lobeled by 0 letter A to K from top to bottom (1 is omitted) and a number 1 to 15 from left to right. Locations on the chart are specified by these letter and number labels, indicated on the borders of the map.

2. Ferson homes. The name of a person in the following index refers to the location of such persons, either in one place if he stayed there for the whole time, or in more than one place if he moved from one location to another. A plural person name refers to two or more persons with the same last name.

3. <u>Numbers</u>. A number following the name of a person refers to the film (or roll) number of a still photograph, or the frame number of a movie sequence taken by such person. Numbers preceded by Z refer-to frame numbers of the color movie film taken by Abraham Zapruder atonding in orce D 7.

4. Hotorcade. The leading portion of the motorcade including President J. f. Acanedy is shown diagrammatically 7 to 8 seconds before

the first shot. The motorcade is arranged in acquence along Houston St. and Main St. All these cars, of course, were moving and therefore occupied different positions at later times. The only successive locations shown for later positions of the metacage are the locations of Fresident Kennedy's head in the lead cor. These head locations are marked by a squence of dots along the St. These locations were curefully determined by the FRI; they are identified by the frame awhers of the color movie film taken by Abraham Zapruder; these locations were used by the Marran Commission in their investigation. Successive frames were 1/10 second apart.

5. Note. The information shown in the diagram of the motorcode (G-J 14, J 15) is not repeated in this index.

The information shows in the legend (A-E 1-4) is not repeated in this index.

Nuch of the geographic information (such as locations of trees, white traffic lines, yallow marks on curbs, etc.) is not repeated in this index.

Person or Object	Lecation	Person or Object	Location	Person or Object	Location
Aligent 2, 3	J 13	Kennedy behind "the"	D 10-11	hennen(1)	1 6
Alicens 6 (at Z 255)	F 8	osk tree, from Z 161		Mx 1, 2e	K 12
Aligens 7 (at Z 346)	G B	.to Z 207		NIX 28	J 10
		Kennedy &1:		Osnald's alleged window	A 13
"Babushke Lady" (who took	· F 6	Z 133	S 11		
an entire movie of the		Z 161	D 11	parking area and railroad	D-E 4-5
motorcade from the op-	•	Z 187 (throat shot)	D 10	yerd	
posite aide from Zaprode	r)	Z 226 (beck shet)	-	pull of enoke (chown in 9	€ 7
Bell 1. 2	H 11	Z 238	£ 9	photos)	
Pell 3	H 11	Z 295	•	railroad yard and parking	B-E 4-5
Betzmer 1	£ 13	Z 205	• .	ares	
Betzner 2	C 13	Z 312 (heed shot)	F 8		
Betzaer 3	C 12	Z 313 (2nd head shet)	-	scale in feet	K 8-9
Bord, 1 to 3	6 13	. Z 346	•	shots, courses of:	
Bond. 4 to 9	G 11	Z 400	G 6 ·	lst	Ε 5
Brehm(s)	<i>7</i> 9	Z 433	K 5	2 ad	A 15
Brennes	D 13	Z 465	# 3	3rd	A 11
bullet mark(s) on curb	33. H 6 .	. Z 465	H 1	4th	A 15
		knoll, greesy .	621069	Sta	A 11
Commerce St.	K 1-6			6th	D 6
compass directions	3 0	Hele St.	J 1-15	•••	• •
Connelly, Gov. J. B.,	Ė	Mon # ere : these were	• • • • •	Sitzee	D 7
back shot (et Z 236)	• •	men whose names have	*	smoke, puff of (shown in	1. E 7
5202 51101 (52 6 200)		not been determined		9 photos)	
Delles County Criminel	F-H 15	Man #1, source of lat	0 5	Steamons Freeway sign	1 D 6
Courts Bldg.		shot at Z 169		Secondar Second side	
Dalles County Records Bldg	. C-E 15	Na #2	ε 7	Toque (ake was hit in the	
Delies County Sheriff's	H 15	Me #3	ξį	face by a frequent of	
C(()co		Na 44	ĔŻ	4 shot)	
Dal-Tex Dldg.	A 15	Man "5, source of 6th shot	. 5 6	Texas School Book Deposi-	A 10-13
Dillerd 1	ĉ iš	et Z 313		tery Bldg. et 411 Elm	× 10-13
Dorman, Krs.	Ă II	. Man #6, off map in Dal-Tex	see A 15	St. (7580)	
	7,	Bldg, source of 2nd shot		TSBO, 6th floor easternmost	A 13
Ele St.	# 1 to B 15	at Z 226 and 4th shot		window, from which berrea	× 13
Fin St. extension	A-8 6-12	et Z 265	•	Consission elleged Lee	
	mp, see K 15	Kan #7	. D 6	Osnaid fired 3 shots	
Courts Bldg.		Nam #8, source of 3rd shot	A 11	Towner, J. 1	C 13
cerage bldg. mext to	* A 6-10	at Z 238 and 5th shet at		Towner, T. 1	č 13
TSOO		Z 312			0 13
gressy knoll .	6 4 to C 10	Kon with Umbrelle	ъв.	Towner, T. 2	G 12
		Martin O	H 13	"Unbrelle" Kan	
Hester(s)	C 7	Martin i	G 13		D 6
Hill. Jeen .	. F 9	Martin 2	C 12	Willia 5, 6	
Holland	H 2	saterial picked up by	E 6	Zapruder (location of	D 7
Houston St.	A-K 13-14	Walthers and others	n • .	Abraham Zapruder during	
Hudson and two friends	F 6	Koernen	- 0	the entire color novie	
	K 14	Kuchmera 1	. F9.	which he took)	
Hughes 1, 2	2 :3	Michaela V	Ç 13		

An excellent example of the many things that can be learned even from a single photograph, is provided by Figure 10. This photograph was taken by a professional Associated Press photographer. James Altgens (Table 3, No. 57). This photograph was used by the Warren Commission as Yarborough Exhibit A, Vol. XXI, pages 701-702. However, the Warren Commission staff did not point out very much of the pertinent information contained in the photograph.

President Kennedy (*1) appears in the limousine patially hidden by the rear view mirror. Three shots have already struck him and Governor Connally by the time this photograph was taken. The exact timing of the photograph is established by the position of the left front tire of the limousine with respect to the white road stripe on Elm St. (*2) By comparing this position with the corresponding positions of the limousine as the limousine appears in the Zapruder (iim, it has been determined that this photo was sampped at exactly the same instant as Zapruder's frame 255.

Since shots were fired at Z109, Z226, Z230 and Z2313, the Altgens photo was exposed 66 Zapruder frames after the first shot (3.6 seconds) and 50 frames before the last shot (3.2 secs).

In view of the fact that only 3.6 seconds had elapsed following the first shot, it is not surprising that very few people in the picture show signs of realizing that anything has happened. Note the smiling face's and applauding hands along the curbs.

Some of the Secret Service men reacted slowly. The two men on the right-hand running board of JFK's followup car ("3) obviously have heard something and are looking back. The two on the left-hand running board ("4) seem to be oblivious to everything. The one in front, Clint Hill, was later to run up to the limousine and push Hrs. Kennedy back into the rear seat when she climbed up on the back hood of the car,

The motorcycle policeman next to JFK on the right. D. L. Jackson (#5) seems to realize JFK has been hit; at any rate, he is looking right at JFK. The fatal shot, 3 seconds later, zoomed from the grassy knoll right over Jackson's helmet and struck JFK on the right side of his forehead. Jackson was never interviewed by anyone and seems to have completely disappeared from the Dailas police force shortly after the assassination.

Lyndon Johnson's secret service men, on the other hand, reacted very fast. Rufus Youngblood testified that he pushed Johnson down on the floor of the car as soon as he heard the shots. The positions where Youngblood and Johnson would have been sitting in the photo (=6) are vacant, proving that Youngblood did indeed do just what he said, in 3.6 seconds. Agent Kivett in Johnson's follow-up car can also be seen reacting quickly (=7) as he opens the left rear door, preparing to jump out.

Covernor Connelly had been hit at Z frame 238.

Governor Connelly had been hit at Z frame 238, about one second before the photo was taken. He can be seen with his face contorted, turned to his right-(m6), and slumping toward the sill of the limousine. Mrs. Kennedy had, by this time, turned to see her husband in pain, and grasped his elbow with her

white gloved hand (49). Secret Service Agent Kellerman didn't react until well after this photo.

This is not too surprising since Ars. Lyndon B. Johnson (Lady Bird) (#10) is smiling at the crowds as if nothing had happened, even though her husband is lying on the floor next to her with Agent Youngblood on top of him.

Policeman Hargia (#11) just to the left and rear of the Presidential limousine doesn't seem to know anything is wrong, although he could be looking at JFK. Later he was hit in the face with blood and grey matter from the fatal shot which came from the right front and drove the fleshy debris of Kennedy's head back and to the left toward Hargis.

The only reason the Aligens photo appears as a Commission Exhibit is that some sharp-eyed critic noticed a man who looked just like Lee Harvey Oswald standing in the doorway of the Texas School Book Depository Building in the background of the photo (#12). The Commission was therefore forced to consider this point and they contended that the man was Billy Lovelady, who was an associate of Oswald's at the building.

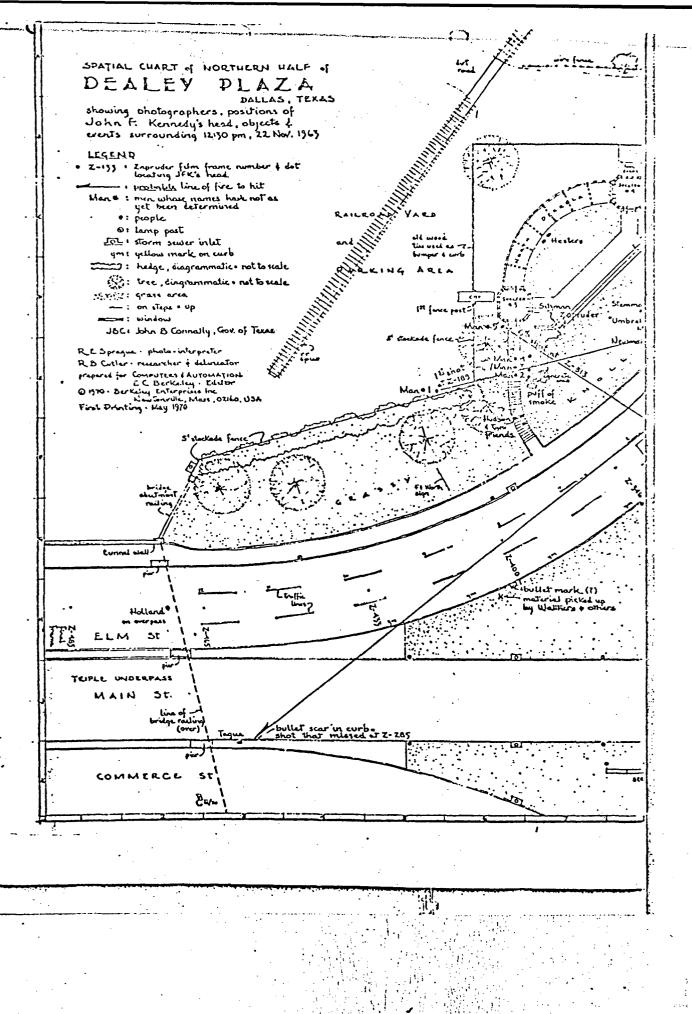
Four years later, I was able to prove that the Warren Commission was right, by using several other photographs in combination. Until then, the controversy still raged among Commission defenders and researchers.

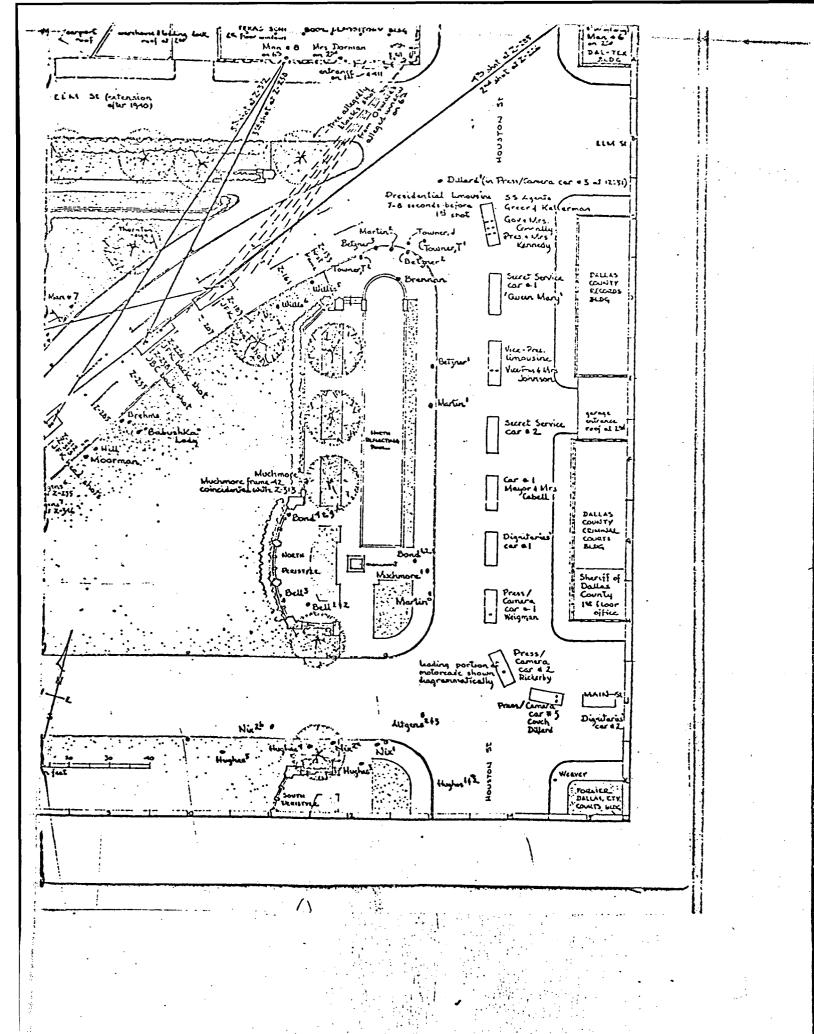
One of the most significant parts of the Altgens photo is the part showing the Dal Tex building in the background and an open, darkened window on the second floor (=13). Harold Weisberg, one of the researchers, first called attention to this wirdow and the possibility that one or more shots might have been fired from it.

A man (#14) appears in this photo, fallen back on the fire escape directly above the open window. Just five seconds earlier in the linghes film sequence, he was sitting in a normal position. This man has not been found to be interviewed. The group of three people (#15) in the window to the south of him have not realized anything remarkable has happened and are waving and clapping and looking at the President. The probable explanation of the man's action was his much closer proximity to the noise directly below him created by a shot from the Dal-Tex window. The second shot most probably came from this window as well as the curb shot.

A Latin-appearing man who closely resembles one of the Cubans known to be involved in the New Orleans part of the conspiracy appears in the same vicinity (*16). Some researchers claim that he is using a microphone and a two-way radio. However, I believe these objects to be part of the opened vent window on the Johnson secret service follow-up car.

The large oak tree (#17) is the one referred to above in this article, as the tree which blocked the view of Kennedy from the 6th floor easternmost window in the Texas School Book Depository, at the time of the first shot (Z 189). The Warren Commission Report admits the oak tree blocked the view from Z 161 to Z 207 (see Chart 1 and Chart 2).





Some interesting things happen when one hegins to analyze the many pictures taken by different. photographers from different directions standing in different places, but all taken in the same small interval of 10 or 15 seconds, and all in the same small ares of Deeley Plaza and its environs.

One of the things that happens is that the pictures confirm each other, and show what people were doing.

One outcome of the analysis is that we see other persons who also were taking pictures; then they tom can be identified and located, and their pictures salso can be found, and copies of their pictures can be obtained from them also.

An example of a result of even further analysis of the pictures in three dimensions of space and one dimension of time is that we discover the story of

"the man with the umbrells".

When we first see the "man with the umbrells",

the is holding it closed. This is when the Kennedy car rounds the corner from Houston St. Into Elm St. Next he is holding it open and low over his head; the time is shortly before the first shot (see Fig. Note that the weather is sunny, "slight breezes and gusts"; it is a sunny November day in Dallas; The time is noon; the temperature is 68° Fahrenheit, and there is no ordinary reason at all for holding an open black unbrella over one's head. .The rain that had occurred earlier in the morning stopped about ten twenty, and the temperature is not high enough to be shading oneself. No one else in all of Dealey Plaza appears to have been holding an open umbrella. Next, he raises the umbrella. still open, high up, about two feet higher; this is shortly before the last shot and the umbrella shows up in the Zapruder film. A few seconds after the last shot, we see him holding the umbrella folded (Table 5, No. 259). Then a few minutes later, we have three pictures of him, still standing in the same place, still holding the umbrella folded up. (Table 3, Nos. 48, 49, and 50) Whereas everybody else in that area has dispersed rapidly, he is still standing in the same place, looking in all directions. He has stood in a position to have been seen from all the places from which shots were fired. Yet he is in front of the Stemmons Freeway sign - so that people on the western side of the sign can't readily see him, and people in front of the sign are facing away from him. We can draw two tentative conclusions:

1. Visual coordination as well as radio coordination of the firing teams was necessary, because of the separation of the team members by several hundred yards, the noise and confusion of the motorcade, and the crowd of spectators. The "man with the umbrells" might be the visual coordinator.

2. Also, it was likely that an on-the-scene commander was required in order to make the last-minute go-no-go decision. This man may have been the on-the-scene commander.

The Warren Commission did not see the "umbrella man" in the photographs, did not find him, did not interview him, and did not enter him in any of its records anywhere. Neither did the FBI nor the Dallas authorities. Again, one asks why? It was a reasonably simple matter for an amateur to find him in the photographs. Josiah Thompson found him and mentioned him in his book, Six Seconds in Dallas (see, pages, 227-228). Thompson even appealed for him, if innocent, to come forward and identify himself. That, so far, has not happened. 4.14

SOME IMPORTANT PHOTOGRAPHS ACCULARD BY THE FOI AND CHINILINE

Hele He	IIM.		tell and Sequence	Subject	<u>Tim</u>
51	78	Kery Hoerman	. 1	TSID stath floor window, terfore Kennedy counded the corner	10 to 15 sec. before shote
13	rs	Willie	IJ	Fee errested out- side of the Del- Tex Building	within 20 min. ofter the shelp
375	78	Foley		TSID stath floor wirder, with two pen in the win- dow, neither of then Oswald	stort 10 sm, for, 22, 1963
\$76	ka	Babushka Ledy	1	Morie of JFK pre- tession (from the ether aldo of the street from Zapruder)	sboot 10 to 17 set, be- fore wall 7 to 10 sec, afterwords
310	PB	James Powell, Army Intelli- games, Delles	1	CH 2T	about the time of the shots
494	78	Similie	1	TSLD, showing the sixth floor win- com empty except for box	briween first and lest ghote
475	18	Similia	2	Kennedy further down on Elm St.	about 23 see. after the about

op a still photograph; K = morie; B = black and white

The "Babushka Lady's" Movie _

As mentioned above, the pictures show other persons also taking pictures. One of these other pasons has been called the "Babushka lady" iccause One of these other pershe is wearing a babushka (a triangular head scarf). She took a movie as did Zapruder, but she took hera from the left hand side of the motorcade; and she was able to take all the scenes beginning with the rounding of President Kennedy's car from Houston St. on to Elm St., and ending with the dead president's limousine passing under the overpass to go to the hospital.

Her movie would be particularly valuable for it would probably show all that was going on on the grassy knoll.

She may have been Ars. Beck, at the time a student at the University of Michigan at Ann Arhor who was visiting in Dallas. After her movie was developed, Mrs. Beck talked about it to the <u>Detroit</u> Free Press. Then the Detroit FBI attempted to The information at present stops there. However, from observing similar actions of the FBI, one would suspect that they found her, obtained her movie, and either destroyed it or filed it away unavailable to researchers. (See Table 2.)

Until it can be confirmed that the "Babushka Lady" is Mrs. Book, their films are listed separately in Table 3 (Nos. 376 6 500).

Some Other Conclusions

A great many other conclusions can be drawn from or are significantly supported by the photographic evidence. A few examples are:

- 1. About ten men are shown being arrested.
 2. At least two other rifles are shown being found before found? a rifle was found.
- found before Oswald's rifle was found.
 3. "Oswald" is shown in two fake photographs with him holding a rifle. When Oswald was shown the photos he said. "That's my head but somebody else's body." That Oswald was right in this case has been clearly demonstrated by fred Newcomb. a Los Angeles researcher.
- 4. Oswald did not shoot Officer J. D. Tappit of the Units police force; two other men did. Oswald was not near the shooting site at the time.
- site at the time.

 5. Oswald's supposed discovery and arrest in the Texas Theatre, the movie theater where he went, was staged and prearranged.

 Continuing analysis and continued searching for more photos will no doubt produce new conclusions and findings for some time to come.

(Text continued on page 56)

Chart 2

SCHEMATIC TINGING CHART OF PHOTOGRAPHS, MOYIES, AND EVENTS IN DEALLY PLAZA AGOUND 12:30 PM NOVEMBER 22, 1963

Zapruder Frane humbers Shown on Spatial Chart			:	
Motorcade Location: Defore Houston St.	JFK on Houston St.	JFK on Elm St.	JFK Post Overpass Cemera Cars and Buses on Elm St.	Other Cara Past Overpass
Time Scale: Hinutes	Seconds	Seconda Seconda	Seconds	Hinutes
Shots: Jrk behind "the" oak tree as teem from "the Oswald" window				
Window empty (Hughes 654 Dillard 1):		3 T MC		
Photographers and Their Photographs Zapruder				
Mix	Rix 1	Nix 2A 2% 425	Nix 28	
	Nochmore 1 Not 1 AM 192	Hirchnore 2 260 322	•	
Hughes	Hughes O Hugh	es 1 Hughas 2 7 H 654	- getyes 2	Hughes 4
. Marsin <u>Mar</u> K i	in 0 N 64		ertin 2	Martin 3
Dell .	-	Bell :	•	Bell 2
Altgens	Altgens 1-5	Altgens 1-6 Altgens	1-1	
Moormen	_ Moorme	•		•
Willie ':	ktirie 2	Willia d Willis 5 202 Weigman (W	Willis 6 Willis 7	
Weigman				
Rickerby Couch	•		Rickerby 1 C 2 Couch 1 2 3 4 5 6 7	
Bond `	Bond			ad
,	. 1 2 3			7 8 9
Dormea	1	Dorman		
Dillers		Dillerd 1		
Keeter		Neaver	•	

Table 3

MAIN LIST OF OVER 500 PHOTOGRAPHS AND OVER TO PHOTOGRAPHICAS

ı	tho: No. 1	[ype*i	Protographer home G he.	Seq.	Photo Skows	Pho.	Tyre	Pactographer Name G No.	Seq. ho.	Photo Shows
	2	8 8 8 8 8 8	Zapradar,1 Nig.2	1	JFK on Elm-Houston St. to Greepess JFK on Houston St. before shots JFK on tim St. just before, during G after	69	t.u tu	Altgene	3-7	TSUE from same position 5:19 PM TSUE from center of plaza 5:07 PM Clock shows
	4	#C	•	28	hred shot Cressy knoli and cars on Elm Just ofter	71	ra ra	:	3-9	TSD from center of place TSD from center of place
	5	нс	Muchaore, 3	,	rees shot JFC on linuston St.	72	ra	:	3-10	TSIN from center of plaza TSIN from center of plaza
	6	HC.		ż	JFK on tilm just before, during 6 after	74	ro	•	3-12	TWO from center of place
	7	нс	Haghes, 4	0	head shot If an itouston from Rein St. 2/3 of wer to	75	fa	•	4-10	Triple overpass from same position as
	٥	HC.	•		Ha	76		:		Triple overpass from save position
:	o	M.	_	1	JFK on Houston & Elm & 7500 6th floor wisi-	• • •	ra ra	-	4-12	Triple overpass from same position TSIN 5:16 PM from some position as
	9	HC	•	2	Camera cars on Houston St Man on Dai	79		_		Altyens 1-6 Clock shows
		HC.	•		Tox fite escape, sitting Grassy knell after shots					TSMI 5:16 PM from some position as Althens 1-6 Ctock shows
	11	NC NC	-	4	Grassy knoll of .r shots County Courts Bidg., Dol Tex & Maim &	00	LU	•	4-18	TSID Scill I'M from some position as Altgens 1-6 Clock shows
		•	•		Houston		PC	#11110.11	1	JEC on Main St.
	13 14	NC NC	:		Parking Ent Plaza lonking south free arcade		rc	:	2	JFK on Houston St. Jik on Houston St.
	15	HC.	-	0	Parking Lot	64	rc	•	4	JEK in front of 1900
	16	NC NC	•	10	ISSO Bidg top ISSO Doorway & Oal Tex		21	: .	5	Jik after first soot fim St. & grassy boost siter shots
٠	10	HC	Martin.S	οŤ	Jik on Houston St. (from DCA Film)	87	1°C	•	7	file St. f. gressy beel! after shots
	10	NC NC	•	1 24	JFK in front of TSDD Bidg. Grassy knoll G Elm St. after shots	83 (4)		•	8	TSMD Doorway Houston St. Inching h. from Elm. ISDD G
	21 22	HC HC	-	:8	Grassy knoll G Elm St. efter shets Parking Lot	90	PC.	-	10	Dai ,Tex
	23	HC	•		rarting Cot Cop on Motorcycle with magro	70	it	_	117	TSWI front - Doorway 6. 5 eastern windows - Arrest and possible rifle
	24 25	MC MC	-		B. Lovelady in front of TSRD C. Brehm interviewed on Elm St.	91 92		•	11 12	Houston St. leoking north from Elm St. TSHO (all of it) from Houston & Main
	26	HC	•	7	View horth on Houston from Elm	93	rc	•	13	Fan arrested outside Dal Tex Bidg.
	27 20	HC HC	•		View North on Houston G TSBO doorway Front of TSBO - Cops with shetguns	94 95		• •	14 15	hhite station wagon on Eim about 12:45 Scenes around TSGO
	29	HC	-		Dal Tex Bldg - Cop with chatgus - Police	96	rc	•	16.	Scenes around TSNO
	36	MC	Benteseza, 6	0	Cors L. Florer under arrest at Houston G Elm	97 90		:	17 16	Scenes around TSBD Scenes around TSBD
	31	HC	•	1	Top of TSDD - 2 cops on Tch floor fire os-	99		Cetteer.13	1	JFK en liousten
	32	MC	•	2	Houston St. between TS80 and Del Tex -	101	en en	-	3	JFK in front of TSGD JFK on Elm about time of first shot
	33	MC	Bel1.7	1	Rifle being examined JFK on Houston St.		81 81	Bothen.13	1 2	JFK mear Love Field JFK on Main approaching Mouston
	34	HC.	•	2	AK is front of TSND	104	84	-	ā	Lead motorcycles approaching Houston
		HC HC	•	3	WK approaching triple overposs on Eim St. Grassy knoli area just after skets		PB PB	:	4	JFK rounding corner Main G Houston Arcade after shots
	37 .	RC RC	:	5	Grassy knoll area after shota Center of Plaza after shota		LB	AP Photog-	1	Group of photos taken outside Parkland
	39	MC	•	7	Grassy knoli area	106	. Pa	repher.14 AP Fhotog-	1	Hospitel Copy of Moorman 2 - Clearer than published
	40 41	HC HC	:	9	Piezs from Ridg, on south later in day Piezs from Ridg, on south later in day	109	83	repher.15 AP Fhotog-	1	Officers & newsmen inside TSRO at 6th
	42	PC	Bend, B	1	Notorcycles rounding Houston & Main			rupher. 16	•	(loor window
	43 44	PC PC	•	3	JFK rounding Houston G Mais JFK on Houston	110	PG	AP Photog- taphes, 17	1	Group of officials ent Pickup truck en Stemons Freeway - TSBD in background -
	45 46	PC PC	•	4	Gressy knoll G Elm St. efter shots Gressy kholl G Elm St. efter shots	٠	83		,	Taken from moving car - 1:04 FM. Nov. 22
	47	70	•	6	Grassy knoll & Elm St. after shot:		1.9	-	ŝ	Triple overpass from same car on west Closeup of overpass - 1:04 FM from car
•		PC	-		Grassy kaoli efter shots Grassy kaoli efter shets	113	PB	•	4	approaching TSIO. Dal Tex. County Records Bldg. from
	50	PC		9	Gressy knoll efter shots				٦.	moving car on Main St. mear overpass -
	51	PB	M. Moerman,	' '	Motorcycle cop rounding corner Elm C House- ton	114	PG	•	5	1:04 PM TSND. Dal Tex from car on Kain St
	52 53	PB PB	Altgans 10	ì .2,	ton Grassy knoli G JFK at time of head shet Lead Motorcycles in Motorcede on Main St.		PB		6	1:04 PM Clock shows
	54	P8		1-3	JFK approaching Houston St. on Main			-	•	Grassy knoll G Triple overpass from car on Kain St.
-	55 56	PB PB	•	1-4	JFK turning corner at Houston & Main JFK halfway down Houston toward Elm	-116	PB	•	7.	TSRD. Dal Tex from cor on Moia - 1:04 PM - View of activity around corner of Elm
	57	18	•	1-6	HK after first three shots 6 before fatal			B #4**		& Houston
	58	PB	•	1-7	shot. Open window. fire escape, Oal Tex JFK approaching triple everpess. C. Hill			D. #111er.16	1 2	JFK early in motorcade JFK early in motorcade
	59	26	•		en car Arcade G knoll from South of Elm after	117	PB	•	3	JFK on Stormous Freeway - Possible man
					shats			•		with rifle in background - Cornam sign shows JFK's-C. Hill's foot sticking
		PB PB	•		TSRD 5:06 PM November 22 TSRD 5:06 PM Clock shows	118	PB	Rickerby.19	1	out of car (Life) Arcade G West Cupols after shots
	62	P8 P3	• .	2-6	TSSO 5:06 PM Clock shows				-	(3 people)
	64	PB	•	2-14	TSRO from same position as Altgens 1-6 TSRO from same position	119	PB	• .	. 2	Arcode & Photographers taking pictures (Com 2)
	45 66	89 81	•		TS00 from same position 5:16 PM Clock share TS00 from same position 5:19 PM Clock share	120	FB	Dillerd, 20	1	TSRD 6th fleer window from Com 3 (Delies-
	67	PS	• .		TSSO from some position 5:19 PM	121	-28	•	2	Morning N) TSDD 6th floor window from Com 3
								٠		-

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fine No. 1		him G ho.		Photo Shows	fae No. '	to Iy;~d	elfkelographer 	Seq. No.	FRATE Shows
122	FA	0111ard, 20	3	Overpass & camera cars on Elm	107	rn.	Yo. Alles.23	3-6	Larry Florer in Servill's affice
153		• •		1:45 fM - Hand pointing to bullet mark	100	rs	•	3-7	Larry Florer in Secriff's office
124	TB.	J. Laird,21		(Nation Horning News) Scene at Parkland	100		•		Larry florer to Secriff's office
125	rn.	•	2	Hospital Il contact prints of TSNO late on November	191	14	•		Larry Florer in Specific office Larry Florer in Specific office
	•••		•	22	172	ra	. •		Tille from a distance of the
	ra	:	3	li contact prints of Perkland Hospital		rn	•	3-:2	TUD from claseup
127	8.1	:	4	O contact prints at folice station	194 195	FB	:		Two cops in Title doorway There "tranps" from R.R. yards is from
4.0	FG		5	li contact prints of scenes around Park-	113	14		2-14	of TSM
129	CB	J. Beers,22	1	(Dallas Morning Arms) Lt. Montgomery 687-		£9	•	3-15	Three "tramps" on Houston St.
		_		rying large paper bag	197	Pā	•	3-16	Three "tramps" bring led towerds shee
130	ra	:	3	Lt. Mantgomery with bag Lt. Johnson carrying Dr. Pepper battle	198	rn.	•	4-2	riff's office . ". Guilet mark on curb
131	63 81		4	Daves Inside TSI2) Oth Clone window	177		•		fulfet mirk on curb
133	13	-	5	W.E. Barnett G J.M. Smith (cops)	500	PB	•	4-4	Lt. Montgowry with boy & Lt. Johnson
134	13.	•	6	Larry Florer on Houston St.	201			4 4	with bottle
135	63 63		3	Area where Oswald's rifle found Area where Oswald's rifle found	201	***		4-3	Lt. Managemery with bag G Lt. Johnson with bottle
137	£3	-	ě	Two men in police car - one negro. one	202	PB	•		Lt. Johnson with bottle & lunch such
				Cuhan	503		-		Lt. Johnson with bottle & lunch tock
130				Sinc uce being led I im TSNO by cope	201				flores inside tin floor winter flores inside tin floor winter
139	11 11		11	Three tramps being led away from TSNO Three tramps being led away from TSNO	20.		-		flores inside 6th (foor window
141			iā	Rifle being cerried away from TSBD by Lt.	207		•		View down his from bin floor window
				liay	200	FB	•		Vice down fin from 6th floor nintou
143	LO	•	14	Fifte being carried away from TSBD by LL.	210	LU BB			View down tim from 6th floor wissest from bunger of car
143	PB	•	15	May Rifle being carried away from TSED by Lt.	211	PO	•		Cop is front of TSISI & group
443	10		.,	Day	212	FO	•		Group in front of 7500
144	t.u	- .		Two ladies G boy leaving TS80		PO	•		Cops to TNID Goorway
145	76	-	17	View from 6th floor window - Nov. 22 FK	214	L9			Police cars and cre-d behind 7500 (north)
146	60	-	10	Great arrival at Police Station Con with shotown looking up at TSDO	215	63 63	•		Police cars and crowd behind ISW (north) Police cris and crowd behind ISW (north)
146		•	20	Group around TSM	217	LO	-		largeo & Latin van under arrest on Lin St.
149		•	21	Old white haired man led away from TSGO	210	LO	•		Negro G Latin row climbing in police car
1:0	£Β	•	55	Scene around & Inside TSID - view of east	219	07 43	- :		Nigro Glatin and in police car
151				side of liousten TSW from point on liouston	220	r B	•		Lt. Not carrying rifle out of TSW Lt. Nay corrying rifle toward Houston C
152		•		3 bores stacked up at TSGO 6th floor wis-					Eln
•••				dox	222	fB	•	5-13	Lt. Day carrying rifle toward Houston G
	64	:		Scene around & Inside TSDD	223	-			Ein
	PB PB			Scene around G laside TSNO Scene around G laside TSNO	223	"		3-11	Lt. Day corrying rifle approaching cor- ner
156	L9	•		Scene around & Inside TSND	224			5-15	Lt. Day carrying rifle crossing Houston
		:	30		225				tt. Day carrying rifle classing Houston
158 159	PB PB	:	30 31	Scene around G inside TSBD Scene around G inside TSBD	226	ra	_	3-11	Lt. Day corrying rifts in front of Dai Tex
160	PB	•	32		227	PB	•	5-18	it. Day carrying rifle in front of Dal
161	28	•	33	••••	220		_		Tex
163	FB	Wa. Alies, 23	1-3	(Dallas Times Heraid) 12-39 PM Walthers and record official picking up something from	228 229	78 78			i Two women and man leaving a house I Two women and man cetting in police car
•				ground	•••				- Another photographer shows
163	78	•	1-4	12:40 PM (Hertz clock shows) Walthers and	230	Pa	•	6-5	Two works and man getting in police cor
				group mear spot where something picked up - South of Eim mear laiet	231	PA		4.6	- Another photographer shows Two women and mam in police car - An-
164	PB	•	1-5	12:41 PM Grassy bools from center of place					other photographer shows
165	FB	•	1-6	Group scar foot of steps on Elm - TSNO G	232	re		6-7	Two women and man arriving at police
				Dal Tex in background - C. Brokm being interviewed 12:42 PM	233	28		6-8	Station Two words and man arriving at police
166	78	* • ·	1-7	Group near foot of steps on Elm - Grossy					station
				knott in background - C. Brehn being	234				Two worrs and man in police weiting room
167	-		١8	interviewed 12:42 FK Group mear foot of steps on Elm - Center of	235	PB	J.McAuley.24		(Ft. Worth Stor Telegram) Han arrested in Ft. Worth scar police cor
40:	FB		•	plaze in background 12:42 PM	236	Pa		2	Man near car is ft. Werth - Nov. 22 PM
168	13	•	1-15	Cop with shetgun - Dal Tex in background -	237			. 3	
				Elm G Houston 12:43 P4	238	Pe	N.Cabluck, 25	1	(Ft. Worth Star Telegram) Spot where bullet hit grass
169	PB	-	7-10	Cop with shotgun - View east on Elm from Houston 12:44°M	239	PR	. •	2	
170	84	• ;	1-17	(around 12:45 FM) TSMD from south of Elm on	240	re	•		Spot where bullet hit grass
_				Houston.	241			4	Spot where hallet hit grass
171	, PB	•	1-18	TSN) from south of Elm on Houston (closer	242	P 8			Parkland Hospital - Cany people in front
172	FB	• .	1-19	view) Crowd held back - Corner Elm & Houston out-		PE			Parkland Hospital - Many people in front Parkland Hospital - Many people in front
• ' •		•	• •	side County Records Bldg.	245	P	J.Cablack.2		(Ft. Worth Star Telegram) Dealey Plaza
173	PB	•	1-20	Bal Tex. cops with shotguns from corner Elm C Houston	246	P		٠.	from Helicopter late afternion - Nov.22 - Helicopter view of Dealey Plaza from esst
174	78		2-3	Cops G crowds in front of Oal Tex fire		• •	•	•	of Dal Tex
-	•			escape - Montosama in photo	247	PE	•	3	
	FB			Cop with shotgum is front of Del Tex 6th floor window - Man measuring cartons	248	PE		4	of overpass Parkland Hospital, JFK car
	69 61	1		off floor window - Man measuring cartons		PE		•	Parkined Hospital, other cars
178	PG	-,	2-7	With floor window - Hem measuring cartons	250	PI	•	6	Yiew of Relirond tracks from TS80
	PB	. •	2-6	Cons checking cars lined up to leave park-	251	Pi	G. Smith,27	1	(Ft. Worth Star Telegram) Three men from R.R. tracks in front of TSBO mader
3.60	PB		2-14	ing lot 12:54 FM 12:55 PM Sheriff waving out of 6th ficor					errest
•				window next to "the" window	252	PI	•	2	Three men from R.R. tracks in front TS80
	Fa			"Assessins" window	202	P			under arrest
195	78	-	4-16	, 12:55 PM Cops with shetgens - Del Tex Im . background (looks like Murrey 2-15)		P		4	Lt. Montgomery with bag Lt. Montgomery with long
143	re			tarry Florer being Crisked	255	m	n •	5	Lt. Johnson with suck and bottle
	76) Larry Florar Closa up) "Assessino" window	256 251			6	
	FA FB	_		1:00 PM Larry Florer in Sheriff's office	256		N.Devis,28	i	
				•			. •		in camera ear CAN 2 early motorcade

fhe ho.	te Tyre	Parc G M	her Seq.	Photo Shows	Fhe No.	te Type	Pastographer Name G Ne,	Seq.	feete Mone
524	ro	Veignes, 2	9 1	Scene on Elm. grossy knell. TSOO deerway from CAN 1	316	FB	Surrey.30	2-24	Caps beside that Tex Blidg Houston St.
260		Serrey,30	≈ 4 ² 1	Rowing on ground - Cong I & 2 on Elm St.	310	LO	(Ferres west		Group in front of Dal Tex - Closeup 1:07
262		•	1-7	Blank Elm f. Houston G Dol Yex from in front of	320		•	2-2>	Sarty place omatona 1:24 Sarty place donatona 1:24
264		•	1-4	TSIO 12:33		14 23	:	2-25	hartly place dination 1:24 Lacry Placer in Secrett's office 1:20
265	PB	:	1-5	Parking Lot - Scrth section 12:34	324	63	•	2-37	Larry Florer in Shreiff's office 1:50 Group outside Dal Tex 12:56
266 267		•		Parking Lot - Seath section 12:34 Elm St. Fat From mest and looking	326	LO	•		Front of TSID & Elm St. Ext. looking
\$60		•	1-0	enst 12:34 Center of Plaza from knot1 12:35	321	ខា	:		west 12:56 View south on Houston from Elm 12:57
269	ro	•	1-6	Closcup of large group on north curb of 4.1m 12:35	329	es es	•	3.6	View south on Houston from Elm 12:57 In Shoriff's office 1:66
270	18	•	1-10	Cinscup of course on north side Ein St TSOD in background 12:36	331		:		In Sheriff's office 1:00 In Sheriff's office 1:00
271	PB	•	1-11	Long that facing everpass from steps on Elm 12:37	332	t.B LB	•		Is Sheriff's office 1:00 Hary hooman using phone is Sheriff's
272 273		:		Areade 6 knott from center of Place 12:38 Police exemine that on ground - Herta	334	co.			office 1:05 View across Plaza from tinuates 1:07
				clock shows the time 12:39	335			3-12	Par on Houston St South of Kala 1:12
274		-		Same as 13 - Scoth Elm moor sewer suitet - halthers lighting eigstette 12:39		6.0	•		Sar on Hoveton St South of Nein 1:12 Cab driver countous where Marrey brught
275	83	•	1-15	Walthers picking up something from ground 12:39	338	ខា	•	3-15	film 1:23 In Sheriff's effice 1:30
276	P 8	•	1-16	Waithers holding something in his hand 12:39	337	1.0	•		Overpass from hir 2 linuston Overpass from him 6 Houston
277	PB	•	1-17	Another official touching spot on ground 12:40	341 342		•		Greepass from tim & linusion This best end - Top floor
270	89	•	1-16	Police standing around spot on ground	343	ro	:	4-3	Thus heat col - All floors Lousion & tim activity
279	FB	•	1-19	12:40 Police picking up other objects from two	345	ខា		4-10	Houston & Lie ectivity
200	PS	•	1-20	spots - Clock shows the time 12.40 TSMD Plaza & knell from Commerce St	346	rc	-	4-12	Houston & f.im activity Houston & Elm activity
201	ro	•	1-21	Front decreay guarded by two cops 12:41 TSBD Plaza 6 keell from Correcce St.12:41	348	£8			iouston G Eim activity - Pessible ar- rest
203		•		Front door of ISO from south of fin 12:42 Front door of ISO from south of fin 12:62	349 356	ra	-		TSW East end - Top floors TSW East end - Top floors
204	PB	:	1-24	front door of TSO - Closeup 12:42 Front door of TSO - Closeup 12:43	351 352	68 68	-		TSM East end - Tep floors TSM East end - Tep floors - Cleck shows
20 5 286		•		Negro boy in police car - Front of TSBO	353	EB	-	5-:5	TSIM East ent - Top floors
267	₽B	•	1-27	12:43 Front door TSID - Clescup - Welthers in	354 355	FB		4-20	TSMD East em - Top floors TSMD East em - Top floors
208	PB		1-20	doorway 12:43 View east on Elm St. from Houston G Elm	356 357	T	Atkins.31	4-21	TSMI East end - Top floors howning on the ground
209	PB.	•	1-29	Dal Tex 6 County Records Bidg. 12:43 County Records Fidg NA Corner 12:43	358 354		Cencellare,3	2 1	Nr. mags on the ground Resmans og ground - Heigman. Croves.
290	Pā	•	1-30	View north on Housson from south side of Elm St. 12:44	360	P8	•	2	Altgeas ^{*3} Newmans on ground - Closeup
291 292		. :		TSNO from Housten & Main 12:44 TSNO front & deermay from Housten & Elm	361 362		• • •	3	Parking lot Plaza G Elm St. Grom knoll
293	• •	•		12:45 TSND front G deerway from Houston G Elm	363		•	5	Crowl on north side of the from bools - Gabushka Lady appears
				12:45	364	.P8	•	•	Crowd on Overpass watching JFE going out Stemmas Freeway
294 295	PB	•	1-35	TSND doorway - Creed in front 12:45 Cop with shotgon - Del Tex Bidg. in back-	365	PB	UP1. 33	1	Lt. Montgowery carrying paper bag out of YSBD
	LB	: :	1-36	ground 12:45 View morth on Bouston from Elm St. 12:45	366		WI. 34		Officers in front of TSNO
297 298	PB	: ;	2-7	View of everpass from Elm 12:40 Crowd on Elm C eastern Capola from south	367	ru	-	3	Copy of Mm. Allen 1-3 with caption gooding: "Dalles police scarck proved
299	PB	• ;	•	on Elm 12:40 TSBO front door - Reporter tope recording					for builet believed to have lodged in the earth"
300	PB	•	2-6	Interview with Brennen 12:42 TSND front door 12:42	368	P8	UP1. 35	4	Negro girl crying outside Parkland Nospital
301 302		• `		TSWI front door 12:42 Welthers bring interviewed in front of	369	PB		5	Megro girl crying outside forkiess
303		-	:	TSRD 12:45 Walthers being interviewed in front of	370 371		Stoughton, 36 Burrows, 37	1	Not sure be took anything Com 2 Camera cars on Housten St. from Com 2
304		-	2.10	TSUD 12:45 Policema on 6th floor yelling out win-	372		•	,	(AF) Camera cars on bouston St. from Cam 2
		_ '		dow & pointing to 6th floor window 12:55	373	HC.	Dorman, 38	i	JFK on Houston - Glimpses on tim before
305	PB	-		Policeman on 6th floor yelling out win- dow 6 pointing to 6th floor window 12:55	374			3	. shots More glimpses on Houston after shots
306	89	•		Three ladies on top floor fire escape landing of Dal Tax 12:56	375		Photog.(Fale	7)	TSNO on AN of Nev. 22 - 6th fleer win-
307	. P8	•	, 2-13	Cops with shotgama in front of Dal Tex 12:56	376	MC.	Krs. Beck,49		Not sure film exists - Taken Caring shots
308	85	• .	2-14	Cops with shotgest in front of Col Tex 12:50	377 378		Weaver.41 Powell. 42	1	TSRO 6th floor window before first that Cannot find him
309	PB	. •	2-15	Cops with shotgums in front of Dal Tex 12:56	379		Velklend, 43	1	JFK on Stemmus Freeway - Back of TS80 G Parking lot
310	28	•	. 2-16	Cops with shotgens in front of Onl Tex	380	PC	NecCames, 64	1	Group of police interrogeting as eld
311	PB	• :	2-17	12:56 Larry Florer being interviewed in Sheriff	301	PC	•	2	ecgre outside TSNO Group of police interregating an old
312	78	, . .*	; 2-16	office 1:06 Larry Florer being interviewed in Sheriffs			•	3	segre outside TSOD Scene in Dealey Plaza
j 313	ra		. 2-19	office 1:66 Four men in Sheriff's office 1:06	303 384		•	4 5	Scene in Dealey Plaza Scene at Tippitt shooting
314	PB PB	•_ '	. 2-20	Larry Florer 1:06 Larry Florer 1:06	385 386	PC	•	•	Scene at Tippitt shooting
316	72	f =,	2-22	Larry Florer 1:06			•	•	strest
411	ra	/ f ·	4-43	Cops beside Dai Tex Eldg Houston St. side 1:00	367	rt,		•	Orwald in Texas Theatre just after acrest

Pac No.	to Type	ejPhotographer	Seq.	Chale Shows	Ph	ėt•	. Phetographer	Seq.	
360		Jeckson, 45				Type			Photo Shows
309		A.J.L'Hosto.		St. Statica beat-TV (ANC) Photographer - Cop	435 436		K. Cosci.19		Cop with revolver draws - South of Eim Brehn, Nabushka Lody, Surmers, Hill, Honeran, Tague South of Eim - Sweeping
3%	τ.	•	2	Carrying shotpun toward ISM Decker Drennan, Cop with shotpun outside	437	τ		6	Photographers on knott a howeass on
391		•	3	TSID decreay TSID decreay erar same time as dillis 10	438	T	•	7	ground Hayanoi trying to jump cycle over curb
343 343		:	4	6th fions window from variesarath		•		•	north of tim - heighen & Concellare
394	Ť	-		tarry Florer led toward Houston G Elm Decker being interviewed in front of TSBO	439	T	•	8	running to cotch CAN-1 Crowl on North side of Elm - Taken from
395	T	. •	7	Four cops with shotguns - Del Tex is background	440				ercade
3%6	T		6	Larry flerer being led down Houston St	440	٠	•	•	Crowl on North side of Elu - Taken from Houston G fin
297	1	•	9	3 ciper photographers show up Larry Florer going into garage entrance of Secriff's fildg.	441	T	•	10	Crowd on North side of fin - Taken from car driving on him this of above are
398 399		•	1G 11	Two caps leading acque witness late TSOD Possibly two eva placed in police car in	442	. *	•	11	taken prior to 12:35 FK - hov, 22) TSM fits floor window inside - Cops Inciding out
400	т	•		from the man driving down fin St.	. 443	T.	•	12	TSIVI from center of Plaza - Zoems in on
401		•		Mexican & segre ied to police car on Elm St.					6th floor window - Fens down to knoll - Then to corner of Houston & Lim & back to overpass - forcutive train
402	7	•	14	Sam two belog placed in car - Another		_	_	_	moving on overpass
463	T	T. Alpes, 47	i	thouston C Main - eroud mosing toward thouston C Main - eroud mosing toward	444		-		Arcade mich several people in it MFAA Communicator shows rifle 6 telescopia sight similar to Osnahdy lying in
404		_	_	knoli		_	_		Plaza grass - Demonstrates bolt action
405	T	- ;		Scene sutside TSAD Scene sutside TSAU	446		•		Center of Plaza from knot! Capula, Jagruder's position & areada (Sei
495 497		:		Scene outside TSIO Scene outside TSIO		-			queries il to the above were taken be-
458	T	•	6	Police scarching through 6th floor	448	T	D. Cook.50	ı	teren 3 and 4 PM = Nov. 229 (ATVT-County 11 Fort Worth) JrK on Haid
409	Ţ	•	7	Police looking out 6th flast on Houston			•		ant re re corner liousten & Main - Tearn to min front of Sheriff's office
410		:		Cop sticks head out toward the St.	449	τ	. •	~ ₂	Cop with with revolver 6 erond on Elm
411	•	•		Area stowing lunch sack G by, Pepper bottle	450	T	•	3	loss than two minutes after fotal shot. Activity to parking lot
412	T	•	10	Rifle on 6th floor of TSIST - In hiding	451	T	•	4	Locking cast on Eim St. Ext. toward TS80
413	T	•	11	place - Sheriffs G police exhause spet Closeup of rifle posed for photo - Sight	452 453		•	6	In front of TSIO Inside TSIO - Lower fleer
414	T	•	12	visible Policeran solds vifle up - Second cop	454 455		•		Inside TSNO - Sixth floor Arrest & possible rifle (some as Willis
415				points at boit			_		10)
413	٠		13	Group mear boxes where sifts found - Newsmem taking notes	456 457		•		Larry florer Greek Scene of Plaza
416	T	•	14	Lt. Day dusting live shell for finger- prints. Bullet visible	458 459		•	11	Scene in front of TSMO Scene of knott (Alt of above by Don Cook
417		•		Sheriffs talking on 6th floor					were taken prior to 1:30 PM - Nov. 24)
418	٠	R. Reilent, 48		(WFAA-TY ABC) Frome Bidg, in Ook Cliff - Where ossassim thought to be - Mem	460	τ	T.Creves.51	1	(COS) From CAM 1 Houston St. before the
			٠,	secring upon it - Could be library or temple	461	T	•	2	Knoll after shots - Creven Jumped out of CAM 1
419	T	• `		Two police cars speeding along residen- tiol street in Oak Cliff - Police go	462 463		:	3	Closeup of Newmans Accede (2, 3, 4 above were taken within
420	T	•	3	into old frome building 'Cop beiding up light grey jacket - Near	464	- %	. Underwood, f	32 3	2 minutes after fatal shot) (KRID-CRS) TSRO sign over decreay
				parking lot	464 465		Senderson,	S 2	Sixth floor window from directly beneath
421		_	•	Hen in thirt sleeves talking mear used ; car lot	466	T	-	2	Cops with shotguns - Del Tex in back- ground
422	T	•	5	Several police cars & cops seer Tippitt : sheeting site - Cop sums toward police	467	τ	• .	. 4	Ceps with shotguns - Del Tex in back- ground - Folice photographer leaving
423	T	•	6	car holding gun butt Group gathered around Tappitt's car.	468	T	•	5	TSBO Fire engine moving North to Elm on Hous-
	i	_		Piece of paper or poster lying on dash- board - No detail	469	T	•	6	ton Ceps with shotguns
424	T	• -	7	Cops examine Tippitt's billfold (accord- ing to Feiland who is narrating) - Note	470	T	•		Fifth floor window TSAD from directly be-
	i			pad inside - Cops point to it - Cop	471	T	•	8	cesth Cop with shotgun C police efficiel - Del
425	T	. •	8	Group ground Tippitt's pistol beside his car Group ground Tippitt shooting site (over-	472	T	•	•	Tex in background Sixth floor window from beneath - Paus
426	Ť	•		exposed) Crowd scound police car is business sec-		-		·	down to view West on Elm St. Ext
\	?		•	tion - It drives eway with someone in back scat	473	τ	• 1	10	Several cops moving fast - Police cor in center cop getting out Cop looking up at TSFD with shotgum
427 - 428	T	:		Police cars driving up to Texas Theatre Texas Theatre looking up at tower	474	Ť	•	11	Cop looking up at TSBD with shetgus
429	•	•		Texas Theatre - Cops going in - Cer pulls	475		-	12	Same cop looking up at County Records Bldg.
430	T	•	13	Bway Inside Texas Theatre - Very dark - Lights blinking - Cops heatle Oswald seward	476 477		:		Several men going late TS83 decreey TS80 from Howston St Pane in on 6th
. مر	_	_		inside doorway	476				floor window Several more men going into TSIO decreas
431	T		14	Crowd gathered around police car outside Texas Tocatre - Oswald inside in back	479	T	•	16	Cop G two police officials running fost from sear TSNO decreasy toward garage
432	τ.	M. Couch.49	1	SCAT - It drives away (MFAA-TY ASC) IN CAM 3 - Motorcade eq	460	τ	•	17	entrance of County Record Bidg. Firemen going into TSBD carrying ladder
433	T	<i>j.</i> •	2	Main St. approaching Houston St. Front of TSOO - Crowd on north side of	461	T	•		Arrest & possible rifle is front of TS80 (some as Villis 10)
	-	1	_	Elm se CAN 3 rounds corner Houston G	462	Ţ.	•	19	Decker being interviewed in front of
434	T	<i>f</i> •	•	Eim CAM 1. CAM 2. other photographers on	٠	τ.	•	20	TSBD (shows in Merray) Fake secret service man G Roger Craig in
	_			knell - Newmans on ground - mas with umbrells folded - Officer Haygood ap-	483		3.00mal1 #4		frest of TSBD (shows in Murray) (WBAP-NBC) Elm St. activity ofter be
,		•		presching sorth curb - Hargis running to cycle South of Eim St. as CAM 3 moves		-		•	jumped est of CAN 3 - Less them I mim. after fetal shot
				dera Els					

		Photographer : hame G No. 1		Photo Shows			Photographer Seq. I him G ha. Ha.	Panta Sanus
4114		J.0010411,54	2	In pirking lot	103	3	Unidentified	Appears is Muchaere 1
4115			3	in front of TSIM - Arrest of man on Lin	502	•		Appears to Martin 3
406	ī	•	4	In stup press room - Old Co. Court House - hispens interviews	302	•	X14,47	
447	T	0.0-ess.55	ı	(MIGH-NICT) In front of TSIO	503	7	Ov. space	Palicrean says he san specame an everpasa
41-0	7	• '	2	Decker being interstened in front of TSRO			Man, raft	lating pictures
489	T	KRILD,S4	1	(Photographer unbecket Two men ruening in shadow of fence toward old building 4-	504	7	Untile set fied homes, 69	Brennan says he saw her taking pictures.
				wong trees C shrubtery - Could be it- brary or church in the Cliff where aus-	505	7	Unidentified	Apprais in Altyrus 1-4
				pect was believed to be hiding	506	1	Unideatified Non. 71	Appears in Murray of Houston & Elm
430		T. Tower . 57		Jek tounding corner linusion G Eim	507			Annual & William 1 22 1 22 2 5 2 4
491			1	JFK enunding enemer tinusion & Elm	501	•	Kan,72	Appears in Nurvey 1-22, 1-23, 2-5, 2-6 and 2-7 in TSIO decreay
493				Camera cars unling down tim St.	508			
473		P.Pascanii.39		JFk going under overpass			Grent,73	hat sure he took anything - bas is Cil 2
494		H.51-1100.60	1 2	JfK on tim - TSIO in beckground JfK on tim - Overross in becky and	509	7	Unidentified Kon.74	Took Elm St. photo before matercade ag-
446		0.800(430.61	- 7	JER In car after snots (Solo to 'P)	510	7	Unicentified	JFK early in motorcode. Jack Ruby? &
447		J.heuman.62	i	JFK on Stemmens (Sold to A2)			Photog.75	stripper? standing on curb
498		T.Homers,63	i	Jik at time of fatal shot - Eva Grant boys Howard had this photo - Not sure it exists	511	1	Unidentified Pactog. 76	Man taking movies from upper floor of Oct Tex Bldg. Sorrels took possession. See Samper Test. (4)324
459	1	Univertified Photos.64		Appears in be. Alien 196	\$12	7	Joe Scett.78	1200 scenes - KKFO byorodiabyes
500	7	Babushta Say,65		Could be Rebushis Lady - Appears in many pictures taken north and south of Elm -				

"Legend for Type of Photo: M - Monic: P - Still Photo: T - Television Footage: C - Color: N - Wheth C bhite
"There are 10 other photographers" sequences in the OCA flim in addition to merita C Menteuan
"The" Aligens, Associated Press, resembered taking only three of

Probably took movie of fatal skot

dition to mirrin C. Menterson.

Cition to mirrin C. Menterson.

The photes are actuably took in Dealey Plaza. He took seem at the time of the motorcade and 21 more after S. PM. The actual roll and frame numbers on the negatives are given.

Ajancs Marray used two Cameras, one telefoto and one wide angle. The rolls as musbered elternate between the two cameras. Rolls 1,3 - Camera 1: Rolls 2,4, etc. - Camera 2. However, the individual photos do not alternate. Camera 2 was used much less frequently then Camera 1. The photos on Rolls 2,4,6,6, and 10 therefore are interspersed with Rolls 1,3,5,7, and 9 on a more or less rancom basis. Only the times listed indicate the true s-queece. The roll and photo unabers listed are those appearing on the actual films. Only rolls I through 4 are listed here.

Rolls 5-10 were exposed either on Nov. 23 or later, or the night of how. 22 in locations other than Dealey Plaza.

In addition there are four other Black Star photographers who

Gene Cantels took a total of 260 black and white, 35 mm attil tene taniels tent a total of 270 black and white, 32 nm after photos devise the herener 22-24 period. A few of targe negative taken the afternoon and evening of househor 22 and the rest on househor 23 and 24. There are scenes at Oraley Plaza. TSDO. Sheriff's affice, Police station, Police press conferences, Osmaid's rouning house and room, Osmaid's public appearances, and stem: of tin St. from Dai Tex Bidg. through telescopic

and view; at the discount of the list because they were sight.

Their photos are not counted on this list because they were not taken on hovember 22 in Draley Plaza.

Shan with sigh saying "5.0.B. Jack Kennedy" is standing on South curb of Elm, facing position of men with unitella. This photo taken about 1 minute after shots. Could be a signal for sec-

dermood and Sanderson shared the same concro. Undermood bor-rowed it from Sanderson shortly after shots were fired, then roturned it. It is not certain which one took what sequences.

Part 3. The Application of Computers to the Photographic Evidence

Correlation of the Evidence.

It is highly desirable to apply the powers of the computer to analysis of the evidence. And since "the evidence" is a very large order, it makes sense to begin with the "photographic evidence".

Suppose we estimate at 200 the number of frames in an average photograph which is a movie or television sequence. In Table 3 (the main list) there is a record of about 44 movie sequences, and 101 television footages. 145 in total. This means that there are over 25,000 frames, plus approximately 350 still photographs, to be analyzed.
Over 200 persons, objects, etc., are mentioned

briefly in the simple short descriptions of the photographs in Table 3. As more photographs are studied, other persons and objects can be identified. The different items need to be identified by codes; a sample of the coding scheme that would be applicable is shown in Table 4.

The sheer volume of record keeping for 200 to 300 objects and persons appearing in 25,000 frames requires a computer. The analysis of what appears in groups and series of photos and frames also requires computerized correlation.

How will the information for a photograph be entered into a computer? One reasonable way of proceeding is to make a "coding sheet" for each photograph, preparatory to giving it to a clerk for in-put into computer language. The coding sheet and instructions will look something like that shown in Table 5.

Suppose we have put together a computerized data base of the photographic evidence in this form. What will be the sorts of questions which computer programs will enable us to answer? Here are a few samples:

- Which are the pictures that show object ... or event ...
- Where was man # ... from time ... to time
- When did movable object ... leave the scene?

Essentially, when one is using an ordinary file and not using a computerized data base, the information in the file is accessible only by the main sequencing — in this case, the number of the photographer and the number of the picture or movie frame that he took. Cross referencing is possible. but difficult, time-consuming, and clumsy. one uses a computerized data bank, cross referencing becomes very easy and fast. In fact, it may provide so much more facility in getting at the

COMPUTER CODES FOR PERSONS AND COLECTS IN THE PHOTOGRAPIS — PAGELING MARY LEST OF CODES

	ter:	TAL		!	N-116	lear .	
€. E. Barrell	102	man (valdet.)	129	Darity place	371	library or churck	307
ber	103	ere with sign	130	Causin Causes	3/12	ald building	24
C. lireka	104	it. mottomery	1.12	County Records	373	Farbland Hespital	20
bernes	105	metercicle cop	133	Del-Tex	374	police station	3:0
Cab driver	100	Arnes	134	from beildings	375	Treas Thratee	311
COP	100 -	brurn etri	135	house	326	TSINI (Trees School	312
2 cent	199	Aresses	134	1		foot Depositors)	
cors (officers)	110	armoura (caparters)	137				
Couple	116	officials	130	1			
Roure Crole	112	eld hare .	139	1			
Ctarca	113	L. Orwald	149	1			
Latin men (Menteon, Coben)		presie (crowd)	141	ŧ.	LEUISCE E	ed_Extate	
L1. Der	115	£40102*4244f4	142	1			
Dector	316	Jack Buby	143	arrest	40:	interrogating	477
fale secret service ass	117	sheriff(s)	144	corrying	472	interries	4:6
firenan	110	J. A. Saith	145	checking cars	403	leasing	413
L. Florer	112	Sorrela	146	climbing	474	Highling eigerette	412
Harcood (officer)	120	stripper	140	cering	495	meaturing	4:3
Herpis	121	Samera	149	dusting for fingerpriats	476	tape recording	4:4
Citet Hill	122	Tager	150	QUR +Kea's	437	telephoning	415
LL. Johnson	123	Tirall	151	head shet	435	waring	410
J.F. Kennedr	124	114524	152			yellisə	417
ladics (ucres)	125	ue-en (waisest.)	153				
B. Lorelady	126	belthers	154	1			
man affested	127	Welsone #	155	1			
men in shirt alcoves	128	saite-beired mas	155	i .	0216	£1.£	
*** ** ********************************	120			:			
 				back sest	201	live shell	522
	Re21034 6	r Pieces		billfold	502	motorcade	123
				į bases	573	motorcycle(s)	524
arcade	201	N.W. corner 6th floor	210	bullet	900	note pad	525
area where Osmald's	292	The bieg, locked		bullet mark	1413	paper bag (sack)	5.0
rifle found		Oak (111)	216	cemera (cam)	(4)	paper or poster	527
par on liouston St.	293	everposs (triple	220	Careta Care	5-7	pickup truck	504
Cormerce St.	205	61662911)		CATE	563	police cars	
entp :	206	parates let	221	cigarette	5.3	rear bumper	570
TSIN deerway	207	place	222	clock (Herta)	510	rifle	531
east cupole	298	police (welling room)"	223	congressionel car #2	511	semer outlot	532
71% floor fire escape	210	raticase tracks	224	Cornes sice	512	skadow	223
6th floor window of TSBO	211	residential street	225	dash board	513	shot gun(e)	534
Ft. Worth	212	sheriff's affica	226	Dr. Pepper bottle	514	shrubbery	\$35
	213	apet where buildt bit	227	· Canca	515	telescopic stabt	536
garage entrance of		cress (Sailet mert)		fire engine	516	trees	537
Sheriff's building	214		228	foot	517	webrelia	
grassy anoll		Stemens freeway	229	gun	518	unidentified object(o)	238
Houston St.	215	steps	230	Aand .	519	while station wagen	540
Love field	216	Toer	230	J.F.K. car	520	misques	541
Kais St.	217	used car let				41 20 04 3	341
		mest cabale	232	light gray jacket	521		

available information and answering questions, that it yields a revolutionary increase in what one can deduce.

Directions, Locations, and Timing

In addition to the content of the photographs as reported in Table 3 five more items of information need to be entered on the computer record of each frame or still photo:

- the identification of the photographer who took the photograph;
- the location of the photographer when he took it;
- the direction in which he took the picture;
- the time when he took the picture
- the identity of the person doing the analysis or submitting data about the picture.

The FBI and the Marren Commission staff made a careful analysis of the timing of the frames in the Zapruder film, and correlated these times with the positions of the presidential limousine and other cars in the motorcade. (See Chart I). Consequently, there exists an accepted time scale at 1/18 second intervals which applies to the events in the photographs: the scale consists of eighteenths of a second (named with frame numbers of the Zapruder film) during the crucial 6.8 seconds of the fatal interval. I was able to extend this reference technique by using four other movies stretched end to

end in time to cover the period from the moment Kennedy rounded the corner of Houston and Nain Sts. up to the beginning of the Zapruder film.

A preliminary correlation of the times of various movie sequences and still photographs is shown in Table 1, for the peried of Kennedy's travel through Dealey Plaza. In addition, Jim Murray's photographs form an excellent time reference base at less than 30 second intervals for nearly an hour after the last shot, beginning at three minutes after the last shot (see Table 1). The period from the end of the Zapruder film (roughly ten seconds after the last shot) up to the first of Murray's photos (about 3 minutes), is covered by several movies and TV sequences.

Clearly, a human clerk would find it difficult and tiring to enter the bulk of the applicable information for each frace of a long sequence. But a computer program should be able to enter a large part of the applicable information into the computer record for each frame.

The computer should be able to compute and keep records of the timing of all events, in seconds or minutes before or after the time of the first shot.

Image Enhancement and Correlation

Another possibility which computer graphics makes possible is image enhancement. This is an activity in which the human eye is expert. For ex-

TODIC S

COOING SHEET FOR COMPLTER-ASSISTED ANALYSIS

OF PHOTOGRAPHS — PHILINIMARY

Field	Coding Instructions	Approx. No. of Characters
A. Ideatifications		
L. Photograph Humber	Use photograph number in main list	3
2. Type of photograph	Use M for movie, P for still photo, C for color, B for black and white, I for television footage	.3
3. Photographer	Use photographer sumber in main list	2
4. Sequence number	lise photograph sequence	8
5. Person who smalyzed photograph	Use analyst identifying needer according to a previously established key	
B. Contents of the Photogram	(<u>4.74</u> ;	
 Photographers (hoter a picture may of course show other photographers taking pictures.) 	Use photographer number. Previously, make an nigh- abelic key to photograph- are from main list	0 te 12
2. Other persons (in the picture who are not photographers)	Use person code in Table 4	Q to 12
3. kepions or places	Use place code in Table 4	3 10 12
4. Suildings	Use building number in Toble 4	0 10 12
5. Events and notions	Use code in Table 4	3 to 12
6. Objects	Use code in Table 4	3 to 12
7. Place of the photo- graph 1	Use the grid shown in the map, letter first, ther number	2
d. Rise (Use time code. Previously, adopt a scale of times; fractions of seconds, labeled with Zapruder frame numbers during the Zapptoder novie sequence showing the shots; then, seconds, ninutes, and hours before and after the Z sequence as may be appropriate; then, days and dates	
7. Capaule summery of photograph	Use 10 to 30 words des- cribing the contents and importance of the photo- graph, according to specified rules for sum- matizing and examples mate maximum number of total	60 te 200
cherect	ers ter ame combatch tecord:	200 to 300

ample, when a picture is printed in a newspaper it is "screened", i.e., converted into a collection of small dots — some of which are white, some of which are black, — printed in varying intensities, and the human eye looking at the result reassembles the dots into a picture. If you take a magnifying glass, and look at a newspaper picture, the collection of dots becomes completely visible, and you are filled with an appropriate wonder over how the human eye manages to put them together into a picture.

However, if you desire to apply image enhancement with computer graphics, you find yourself with a two-edged sword, in this sense: If you know what you are looking for, then image enhancement can aid

ri;

you. For example, it is easy to find where a circle is located if you know definitely that a circle is in the picture. But if you do not know what you are looking for, then it is easy to find and see things that are not there. For example, there are "experts" who can make people out of hushes, or make bushes out of people, or see canals on the surface of Mars.

In the case of the photographs taken at the time of the Kennedy assassination, we have, however, a different situation. Suppose that four photographs taken at just the same time show a particular spot on the grassy knoll from almost the same direction; it should be possible to use techniques of image enhancement and correlation, and thus see more clearly exactly what was at that spot. For here we are putting together not the information contained in just one picture, but the information contained in four pictures.

Several photos taken from different angles could also enhance an image in three dimensions. (The puff of smoke, for example).

Objectives of the Computer Search of the Photographic Evidence

what are the sorts of questions that might be answered from a thorough, computerized, search of the photographic evidence? Some of these questions are:

- 1. Can rifles be seen in firing positions?
- Can the faces of the gunner be seen?
 According to the Warren Report. So witnesses
 (a majority) thought the shots came from
 a grassy knoll. Some of them saw a "puff
 of smoke" do the photographs show a
 puff of smoke? (At least nine photographs
 do.)
- Do the photographs show that shots came from the knoil? (Yes.)
- 5. Does the testimony of the witnesses as to what they did, agree with what the cameras showed that they did? (One Dallas police officer testified that after the shots he ran up the grassy knoll. But he is shown in some of the photographs, and he did no such thing he just leaned against a lamp post.)
- 6. Can gammen be traced through a series of photos?
- 7. Given a certain object or event in a particular place, which photos should show it during a particular time?

There is no doubt at all that a large number of steps can be taken towards the visual re-creation of that fatal scene, through the study of over 350 still photographs and over 25,000 frames.

The task of computerized analysis of the photographs has been started, but there is a long way to go. A great deal of good detective work should be able to be accomplished through computer record-keeping and analysis of the photographic evidence in the assassination of President Kennedy.

Part 4. Appendices

Acknowledgements and Notices

I wish to express thanks to the following researchers and authors who contributed to the collection and analysis of the photographic evidence and who stimulated me to undertake the work on the photographs: Richard Bernabei, Richard Billings, Lillian Castellano, Bernard Fensterwald, Margaret Field, Jim Garrison, Trent Gough, Jones Harris, David Lifton, Ray Marcus, Sylvia Meagher, Gary Murr, Fred Newcomb, Vincent Salandria, Gary Schoener, Jo-

ξ.

siah Thompson, William Turner, and Harold Meisberg. However, what is said in this article is my responsibility, not theirs.

Since a large number of details are covered in this article, and since there may occur errors of emission or commission or incomplete or inadequate analysis of some of the evidence. I would greatly appreciate any comments and corrections any reaser may be kind enough to send me. All corrections will be published at a later date.

If by accident we have infringed on anyone's copyright in a publication of a picture, we shall be glad to pay the normal connectal rate for the use of the picture.

If any reader of this article desires to ask some specific questions in regard to the assassimations of President John F. Kennedy, or Martin Lather King, Jr., or Senator Robert Kennedy, about what has so far been found out by the researchers, Computers and Automation will make an effort to provide brief replies to these questions. Please write to Coaputers and Automation, Att'n K. 615 Washington St., Newtonville, Mass. 02160; and please enclose a self-addressed stamped envelope for each question, since the questions may be routed to different researchers for the answers. Unlike the Warren Commission, the researchers do not intend to disband immediately after issuing a set of conclusions, and to thereafter ignore all questions.

If any reader of <u>Computers and Automation</u> is interested in contributing computer programming or computer time or materials or funds to the investigation and efforts of the researchers in the NTIA, he should write to Bernard Fensterwald, Jr., Ceairman, NCTIA, 927 15th St. N.W., Washington, D.C.20005.

A double-size chart (22 inches by 34 inches) of Dealey Plaza showing the events in Dealey Plaza like that here published is available. It may be ordered for SS from Cutler Designs, 38 Union St., Nanchester, Nass, 01944. If you desire the chart unfolded, please specify that it be shipped in a cardboard tube. As additional information becomes available, the large chart will be brought up to date.

Epilogue

When I have talked from time to time to various audiences on this subject and shown them some of the photographs, I have encountered a number of questions. Some of these questions are here discussed.

why is it important to get to the bottom of the assassination of President Kennedy, now, after six and a half years have gone by? — There are several reasons. One is that there is a pattern of assassination (with evidence suggesting conspiracy) of important American leaders: two Kennedys and Martia Luther King, for example. A second reason is to save America — i.e., the United States as a democratic American society — by exposing the truth.

Do you think you can save America? — It can be done but only with great pain, just as there was great pain over the Dreyfus Affair in France, 1894 to 1906.

• Why are you yourself so concerned about this? — Because I personally believe that the assassination and its coverup changed the course of United States history from a positive one to a negative one in a way that no other event or series of events ever has. I believe we must eventually rid our country and our own minas of the terrible social and political cancer that would allow this to happen and, worse, to permit the truth about the assassination to remain suppressed.

• Why did not Senator Robert Kennedy do something about this? — It is sad that he did not, for I

think he would have been alive now if he had. There is little evidence for any answer, but there are two popular theories. One theory is that, even though he knew the truth, he underestimated the forces that stood between him and the presidency of the United States, and that he assumed that, once President, he could expose the truth. The second theory is that his connections with the Central Intelligence Agency and the failure of an attempt to assassinate fidel Castro resulted in some anti-Castro Cubans and others participating in organizing his essassination — some of the same people who had participated in the assassination of his brother. I do not know why Senator Robert Rennedy remained silent; why Senator Diward Kennedy remains silent; and why they have both suppressed the autopsy materials on President John F. Kennedy. · Do you think District Attorney Jim Garrison is

a endman c. a fool or insanc? — No. I thick that he is obsolutely sane, and one of the old-style Americans left, and that he has a great deal of courage. He also suffered from underestinating the strength of the forces ranged against him. In addition, the CIA penetrated his case against Clay Sham; they were even paying the largers of some of the people he arrested or attempted to subpoena. He said. "You can't conduct a trial of a CIA-backed conspiracy in an ordinary U.S. court."

• my did the national news regia cooperate in the attack on Garrison's credibility? — This question is hard to answer in a short space. For much light on this important subject. I refer you to Mark Lane's book. A Citizen's Dissent, now in paperback.

. Are you telling me that men as distinguished as Chief Justice Earl Warren, John J. ScCloy, Allen Dalles, Gerald Ford, and others on the warren Conmission can be wrong about their conclusion expressed in the Warren Commission Report? - Yes. If you want to know how and why, read the book inguest by Edward J. Epstein, which is a valuable contribution. But Epstein was paid several tens of thousands of dollars (perhaps indirectly from goverament sources) for the article that he published in the New Yorker magazine attacking Garrison, and that article contains over 100 misstatements. Recently, one of the Warren Commissioners, Senator Richard Russell, har said publicly that he has doubts about some of their conclusions. Also Jesse Curry, Dallas police chief in November 1963, has said publicly the same thing.

 Did Lyndon B. Johnson know about the plans for the assassination of President John F. Kennedy in Dallas before it happened? — So far no substantial evidence has been found to show that he did.

Did J. Edgar Hoover know soout the plans for the assassination of President John F. Kennedy in Dallas before it happened? — There is conclusive evidence that J. Edgar Hoover knew, and issued no warnings. • What can be done?

 One of the things that anyone can do is to read up on this subject, become informed, and talk to his friends.

 Another thing that may be possible is to organize in a year or two an untainted Congressional committee of investigation, which will look into political assassinations in the United States.

3. It would be good to persuade President
Richard Nixon to issue an executive order
to release the classified documents buried
in the National Archives for 75 years (by
President Lyndon Johnson's executive order),
along with the Kennedy autopsy materials.

 It would be good to dismatle the Control Intelligence Agency — which President Kennedy before he was assessinated said he

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wCu1 " to do - and distribute its functions elsewhere, and in the reantime make it accountable for budgetary funds voted by Congress.

5. It would be good to expose J. Edgar Honver, to call the attention of the public to his suppression of evidence and his failure to warn President Kenney of the plot for assassinating him in bailas, and to compel his resignation. The fill knew about the plot well shead of time — through Oswald's Nov. 20 phone call, and the Blank police's warning, at least.

. What about an organization dealing with this subject? - There is one. As erationed above, a con-siderable arount of the new evidence comes from the work of a group of researchers, who have interviewed many witnesser, examined many documents, and studied many of the photographs. This group of researchers is loosely coordinated by the National Committee to Investigate Assassinations, watch has an office in Washington, U.C., and whose chairman is Bernard Fensterwald, Jr. He is a wassington attorncy who a few years ago was the head of the legal staff assisting Senator Estes Kefauver in his investigation into organized crime. He was also Senator Edward Long's attorney in the administrative procedures sub-conmittee of the Government Operations Committee. The NCTIA has been accomulating evidence, which is stored in a number of different places. and stands ready to cooperate with law enforcement agencies as well as Congress. The committee needs money, particularly for computerized correlation of the mass of evidence it has accumulated. The name and address are The National Committee to Investigate Assossinations, 927 15th St. N.W., Washington, D.C.

. What about the mysterious deaths of witnesses? - One of the researchers who is a member of the committee is Penn Jones, Jr., Editor, Midlothian Virror, Midlothian, Texas, -ho has been compiling and publishing evidence for over six years. He maintains a list of witnesses who "knew too much" and who have died unexplained deaths. There have been over 50 deaths among tals group (according to his definition of it) in the time since November 22. 1963: the chance that that number of deaths is due to natural causes is much less than one out of

a million millions.

· liave any of the researchers been killed or threatened? - No, not yet. In appraising the forces on each side of this issue, the great weight is still on the side of the American people, who have not yet been completely "taken over". In fact the capacity of the American people to deal with the misinformation and prepaganda being told them through government publicity, government statements, and government commissions seems to be steadily improving. The most recent examples are Songmy, Pueblo, Laos, and Cambodia. Besides some branches of the Federal government such as the CIA and FBI. only some of the police departments of the country (such as Dallas, Kemphis, Chicago, and Los Angeles) have so far been "taken over" (in the sense of full cooperation with the suppression of evidence about assassination plotters and other political plots). There is a good chance that these police departments can be "taken back", provided we the people can see nore clearly what is happening. There is hope.

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A longer bibliography is available from the National Committee to Investigate Assassinations, 927 15th St. ... W., Washington, D.C.

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