# THE ASSASSINATION OF PRESIDENT JOHN F. KENNEDY:

# THE APPLICATION OF COMPUTERS TO THE PHOTOGRAPHIC EVIDENCE

Richard E. Sprague Hartsdale, New York

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

Richard E. Sprague received his BSEE degree from Purdue University in 1942. His computing career began in 1946 when he was employed as an engineer for the computer group at Northrop Aircraft. In 1950, he co-founded Computer Research Corp.; by 1953, with Sprague serving as Vice President of Sales, the company had sold more computers than any competitor. In 1960, Sprague became the Director of Computer Systems Consulting for Touche, Ross, Bailey and Smart. He became a partner in that company in 1963, and started its Advanced Business Systems Department in 1964.

Sprague is currently the president of Personal Data Services Corporation, a research and consulting firm which he founded in 1968. He is the author of several books, including Information Utilites, published in 1969 by Prentice Hall. He is a member of numerous professional organizations, including: IEEE, The Institute of Management Sciences, the Association for Computing Machinery, the American Management Association, and the Society for Management Information Systems.

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#### Part 1. Introduction

#### Who Assassinated President Kennedy?

On November 22, 1963, in Dallas, Texas, President John F. Kennedy, while riding in an open limousine through Dealey Plaza and waving 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 Kennedy from the sixth floor easternmost window of the Texas School Book Depository Building overlooking Dealey Plaza. This act Oswald denied steadily through two days of questioning (no record of questions and answers was ever preserved). Two days later while Oswald was being transferred from one jail to another, he was shot by Jack Ruby, a Dallas night-club owner, in the basement of the Dallas police station, while millions of Americans watched on television. The commission of investigation, appointed by President Lyndon 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-

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 crucial evidence — such as the physics of the shooting, the timing of a number of events, and other important and undeniable facts. In other words, Oswald was not the sole assassin, 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 Connally shown in some 60 frames of the famous film by Abraham 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 movies.)

More than 50 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-

Note from the Publisher: In order to include the article by Richard E. Sprague in this issue of Computers and Automation, it was necessary to type the article in the typeface of our "Across the Editor's Desk" section, rather than the usual typeface for our articles. We regret any reduction in legibility that may have resulted.

counts for some strange events), elements of the Central Intelligence Agency, some anti-Castro Cuban exiles, some adventurers from New Orleans, and some other groups. After the assassination, some very highly placed persons in the United States government became 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 "1984") over the whole crime.

Of course, asserting these statements makes them neither true nor believable. Without very strong evidence, it would be evil to make such statements. As to believability, prior to District Attorney Jim Garrison's trial of Clay Shaw in New Orleans in Feb. and March, 1969, public opinion polls 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 TV almost everywhere in the United States reported Garrison'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. public opinion, if we judge from the falling off of the poll percentages.

But the United 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 broth-

ers 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 assassinated 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. Much 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:

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

- The new evidence includes new photographic evidence, some of which is reproduced or described in this article.
- Researchers have produced scientific, solidly-based analyses of the old and new evidence and published these analyses in books and articles.
- 4. The office of District Attorney Jim Garrison in New Orleans has, under his direction, carried on (and continues to carry on) an extensive investigation of President Kennedy's assassination. Much of this evidence 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 <u>Six Seconds in Dallas</u>, by Professor Josiah Thompson, a professor of philosophy at Haverford College, Haverford, Pa., published in 1968 by Bernard Geis and Associates, New York, 323 pages. Thompson made a thorough and competent analysis of the happenings during the six seconds when President Kennedy and Governor Connally of Texas were shot. With the cooperation of <u>Life</u> magazine during the first part of his investigation, he looked at the clear original of the Zapruder film. (After that, <u>Life</u> magazine locked the film up and denied any further access, until Garrison subpoenaed 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 impeccably scholarly book is <u>Accessories after the Fact</u>, by Sylvia Meagher, published in 1967 by Bobbs Merrill Co., Indianapolis, 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: the Warren Commission and the Establishment of Truth</u>, 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 Warren 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, Liechtenstein, 1968, 418 pp. (One cannot be sued in Liechtenstein.) 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, attended the London School of Economics and later graduated from the Institute of Political Studies in Paris. (However, "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 alleges 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

Californian rightists, leaders of the Dallas city government, many members of the Dallas Police Department, and many members of the CIA, the FBI, 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, entitled "reports, memoranda, and documents" such as "Dossier Richard M. Helms", "General Dynamics Dossier F 111" — but how to get access to these references is nowhere mentioned. Pages 308 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. 68-57391, 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 several European cities, but no copies of the film are so far available in the United States.

A number of important reference books are included in the partial bibliography at the end of this article. Among the more important authors are Harold Weisberg, Paris Flammande, Mark Lane, Rosemary James, 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 <a href="mailto:public">public</a> 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 assassinate President Kennedy.

The trial was accurately and very fully reported in <u>The Times Picayune</u>, Feb. 7, 1969 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 meet with Lee Harvey Oswald (dead), David Ferrie (dead), and Jack Ruby (dead), and exchange money with them. Twelve witnesses saw them togéther in twos and threes, at various times and places.

2. There were at least three gunmen in Dealey
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. Milteer said that Jack Kennedy was going to be assassinated either in Miami or in some other city by individuals who were connected with right wing groups including the Minute 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 building and that a patsy would be picked up by the police afterwards. He said a man 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, Milteer telephoned the informer to say that Jack Kennedy was coming that day to Dallas, and would probably never be seen in Miami again. The informer interpreted this to mean that Kennedy would be shot in Dallas, and says that he reported this information to the Miami police. The Miami police in turn reported the information to the Miami office of the FBI.

After the assassination, the Miami police assumed that either the FBI or the Secret Service were following up on these leads. So the Miami police remained silent. When District Attorney Jim Garrison contacted them in late 1966, prior to public announcement of his investigation, the Miami police learned of Garrison's evidence about a conspiracy. They became very disturbed, and then decided in January 1967 to make the tape public. (Garrison's investigation did not become public until February 1967.) The Miami tape was played for a group of newsmen in the Miami 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 Miami police prior to the formation of the Warren Commission. Yet none of the above information appears in the Warren Commission Report, in the 26 accompanying volumes, or in the Warren Commission archives 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 telephoned the Dallas, Texas, office of the FBI 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 investigation was made public. No statement about this message appears in the Warren Commission Report, in the twenty-six accompanying volumes, or in the Warren 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

Jim 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 Dealey Plaza 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 strange events, extraordinary patterns of behavior, and important unanswered questions to which the Warren Commission paid almost no attention. There are more than 50 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.

2. 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 Marshall, their lawyer, assisted in locking them up.

4. The Warren Commission accepted the sudden appearance of a pristine bullet (Commission Exhibit 399) fitting Oswald's gun, on the wrong stretcher in Parkland Hospital, and the Commission assumed that it "fell" out of Governor Connally.

5. 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 Zapruder film at the instant of the fatal shot — 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:

President Lyndon B. Johnson issued an executive order locking up in the Archives of

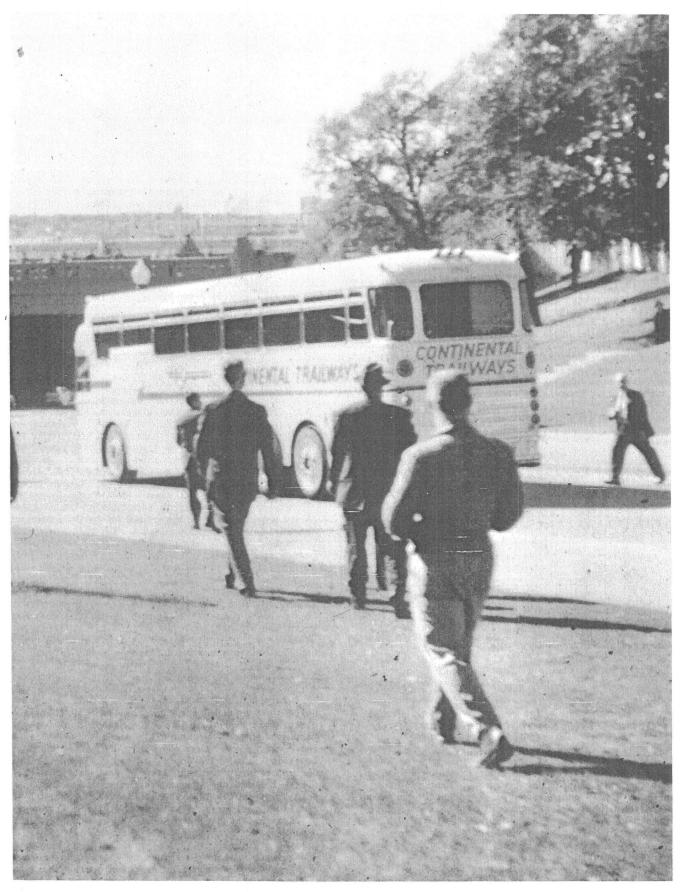


Figure 11

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 antenna 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 <u>Saturday Evening Post</u> on April 6, 1968.

2. Chief Justice Earl Warren has steadily refused to consider any new evidence. As recently as 1969 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 patsy, 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. This 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  $\underline{\text{not}}$  allege that the CIA, the Secret Service, Lyndon  $\overline{\text{B}}$ . Johnson, and certain other prominent individuals participated in 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 total number of frames is over 25,000.

The Warren Commission examined 26 photographs, about 5 percent of the 510. The FBI examined about 50 photographs, or about 10 percent. The most famous of all the photographs is the Zapruder film, which had over 480 frames.

Many 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 Commission did not interview a single one of the professional photographers, nor did the Warren Commission 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 photographers were television network cameramen. The Warren 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 footage obtained from the television photographers. Johnson looked at the film and then put it away. This film is now stored with the Kennedy Memorial Library materials in a warehouse in Washington, D.C.; it is stated to be "unavailable" to researchers. The Commission did not see this film, nor 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.

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 easternmost 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 Hughes, 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

shots, and shows the window empty except for the box. Oswald and his rifle are <u>not</u> 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 Similas photo, the other two pictures destroy the Warren Commission's findings and the testimony of their key witnesses. The witnesses, notably Howard 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 Connally. All this evidence can be demonstrated to be faked.

Photographs 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 saw the three casings, side by side, neatly pointing in the same direction, just inches apart. By the time the "official" police photographer, Mr. Studebaker (who in reality was an amateur 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, <u>Dallas Morning News</u> photographer, took photos of the boxes at 4 pm 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 topmost box stacked three high.

By the time Studebaker took photos of the boxes, used as Exhibits by the Warren Commission, it was after dark, and the boxes 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 is the following proved conclusion: No one fired any shots on November 22, 1963 between noon and one pm from the sixth floor easternmost window of the

#### The Zapruder Movie

Of all the photographs taken in Dealey Plaza on that fateful day, the color movie sequence of some 480 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 shown, but remained in the locked files of <u>Life</u>. But a direct copy of the original was subpoenaed and shown NINE 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 President Kennedy; the second struck Kennedy in the back; the third struck Governor Connally in the right shoulder; the fourth and fifth struck President Kennedy nearly simultaneously in the head and blew out his brains. The remaining shot missed and struck a curbstone on Main 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 <a href="Six Seconds in Dallas">Six Seconds in Dallas</a>.)

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

Obviously, if there was a conspiracy, it becomes vitally necessary to prevent the American people from seeing 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 owns 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.

 $\underline{\text{Life}}$  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's 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 Kennedy's neck brace, or a reverse explosion as the bullet from the rear exited Kennedy's head in front. Josiah Thompson's analysis in <u>Six Seconds in Dallas</u>, proves beyond a

shadow of a doubt, that  $\underline{only}$  the force of a high velocity bullet striking Kennedy's head from the front could produce the head acceleration backward shown in Zapruder frames 313 through 315, and measurable therefrom.

More 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 Warren Commission wrong on 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 shots).

- a. The first shot, fired by man #1 from behind the fence on the grassy knoll, hit Kennedy in the throat at Z189 (Z numbers in the text and on the Map refer to frame #s of the Zapruder Film. The frames were 1/18 second apart. The Z numbers on the map show the location of Kennedy in each Zapruder frame).
- b. The second shot, fired 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 #8 from the Texas School Book Depository (TSBD) hit Connally in the back at Z238.
- 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 Z285.
- e. The fifth shot fired by man #8 from the TSBD hit Kennedy in the head at Z312+.
- f. 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, Willis (Table 3, No. 85), and Betzner (Table 3, No. 101) to be Z189, was such that the view of Kennedy from the sixth floor easternmost window of the TSBD, was completely obscured by a large oak tree. (Bll on Chart 1)
- i. 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 wagon 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 anti-Castro Cubans.

#### Men 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

labeled for the present as Man #5. He is apparently the man who fired the fatal shot, shot No. 6. His position has been shown on the map in area D6. 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 & 4 ran away after the shots.

#### The "Tramps" and the "Phoney Policeman"

Approximately a half hour after the shots were fired, Sergeant D. V. Harkness of the Dallas Police was instructed by Inspector Sawyer 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 shadows in the photographs, by the testimony of Sergeant Harkness to the Warren Commission, Vol. 6, p. 312, and by the timing of Wm. Allen's sequence of photos.) The area where the freight cars were located is to the north and west of the TSBD, 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 Harkness 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" eastward from the direction of the railroad yards along the Elm Street extension in front of the TSBD. They turn south in front of the TSBD (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 Elm St. and Main St. The entrance is directly in front of the five men as they proceed toward it in Fig. 5.

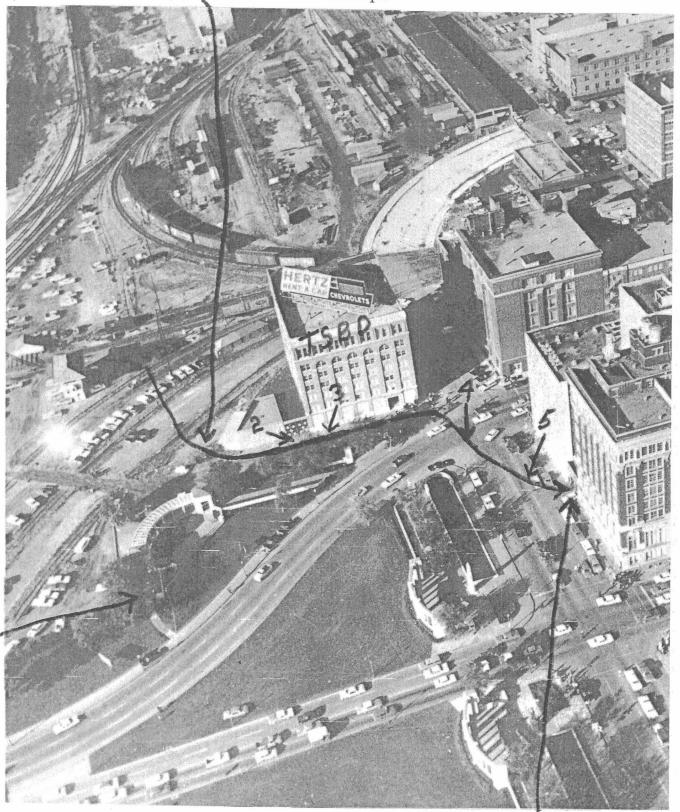
Why is this significant? First, there is no record at all of the arrest of these men — there is no record of their official booking nor of their release, even though Sheriff Elkins testified that he turned them over to Captain Will Fritz of the Dallas Police in the police station. Furthermore, there 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 rubbers; and in his right ear is either a radio communications 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 turned 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 gunmen who shot or shot at President Kennedy. 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)

Path taken by Harkness with "Tramps"

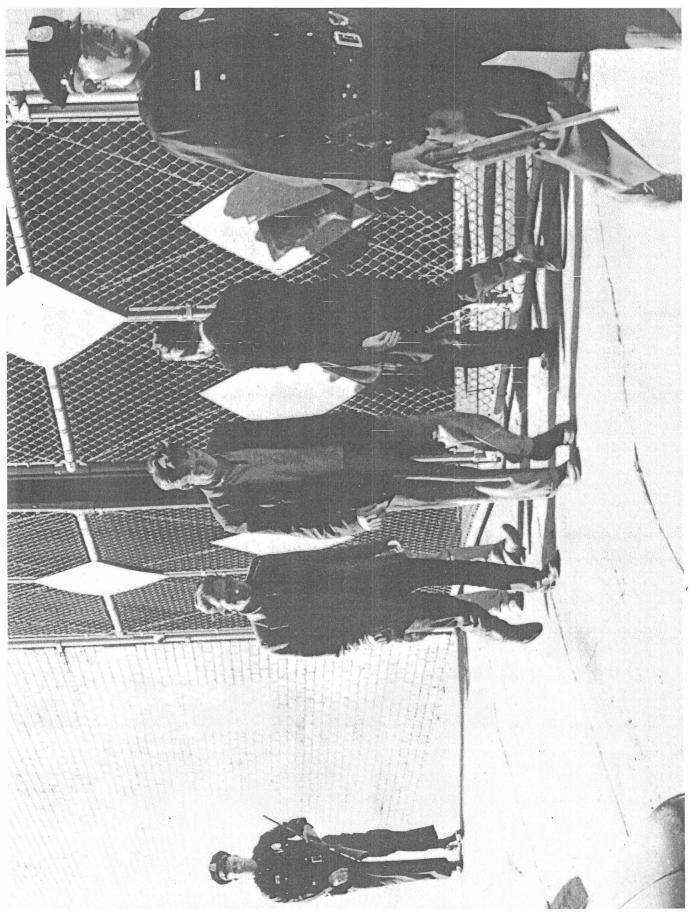


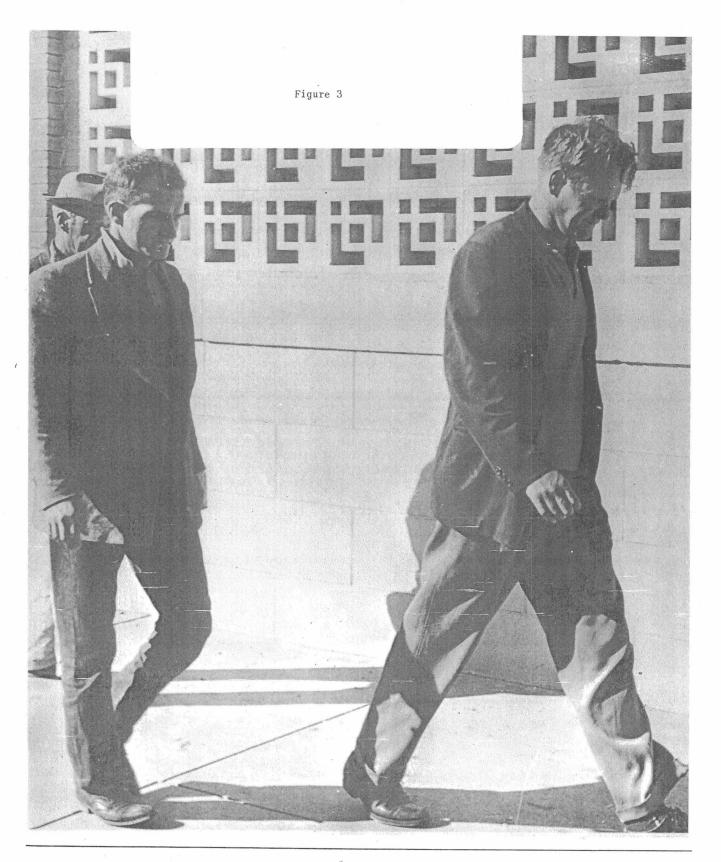
Vehicle entrance to Sheriff's Office

Figure 1

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.

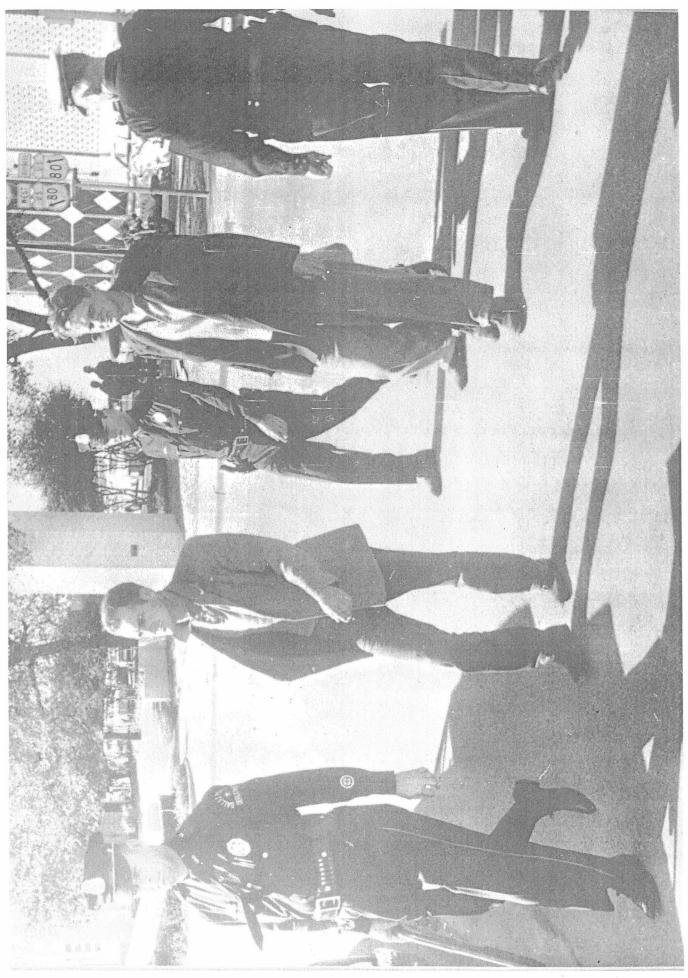
Grassy Knoll

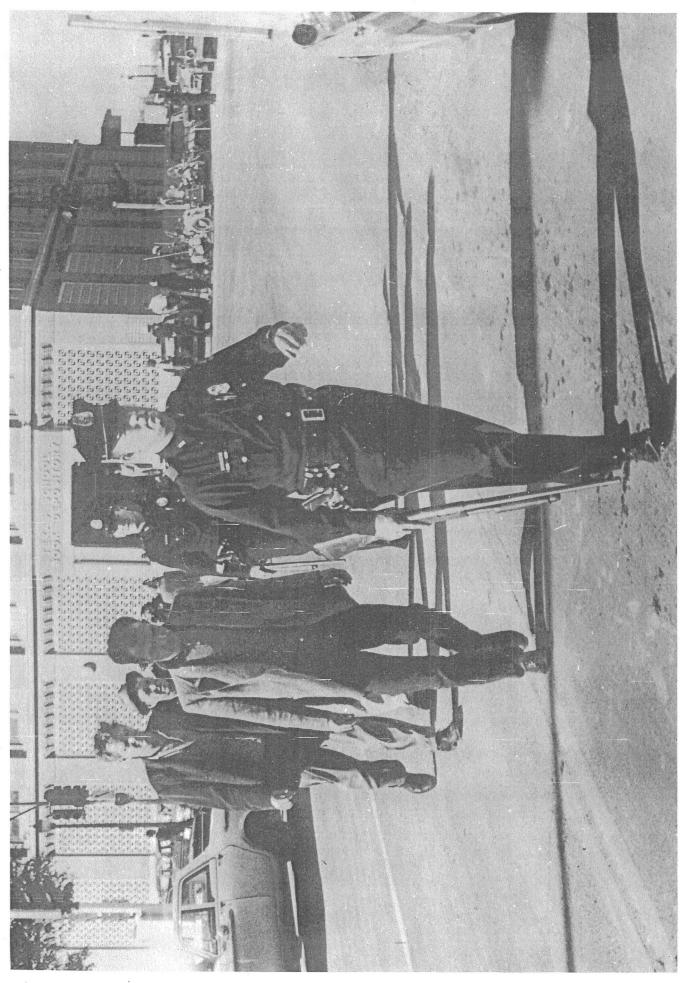


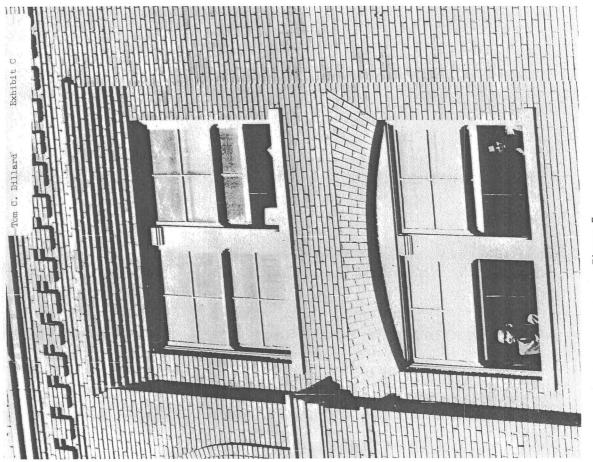


Figures 2, 3, 4 and 5

These four pictures of the "Tramps" and various policemen were taken by George Smith and William Allen (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 ear (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.







Figure

The 6th floor easternmost window of the Texas School Book Depository Building, taken 3 seconds after the shooting, showing no one there. (Table 3, No. 121) The 6th floor easternmost window of the Texas School Book Depository Building, taken 5.7 seconds before the shooting, showing the window less than one quarter open. (Table 3, No. 8)

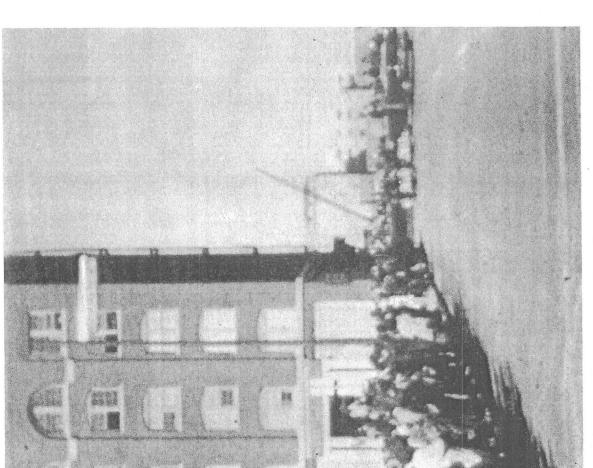


Figure 6

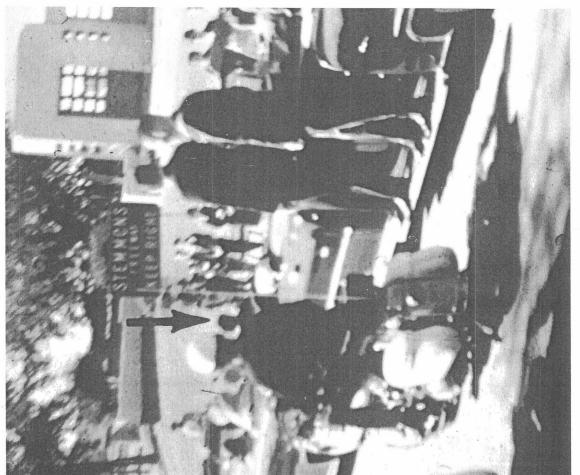


Figure 9

John F. Kennedy after the first three shots and before the fatal shot, Z 202 (Table 3, No. 85). The "Umbrella Man" can be seen at the lower left of the Stemmons Freeway sign, and Man #2 can again be seen at the left of that sign.

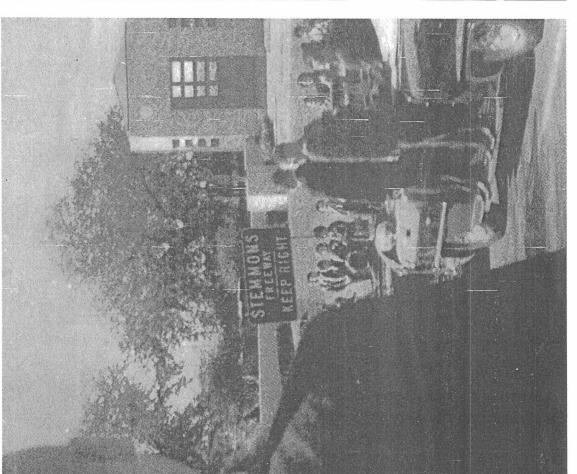
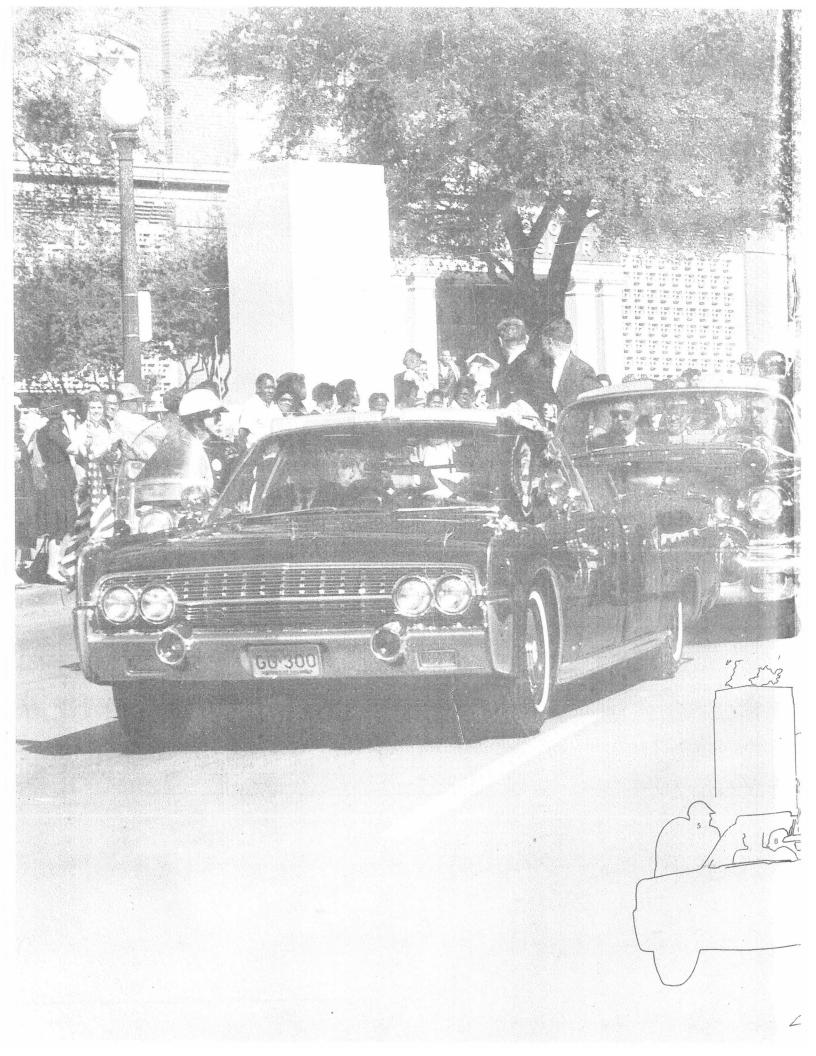
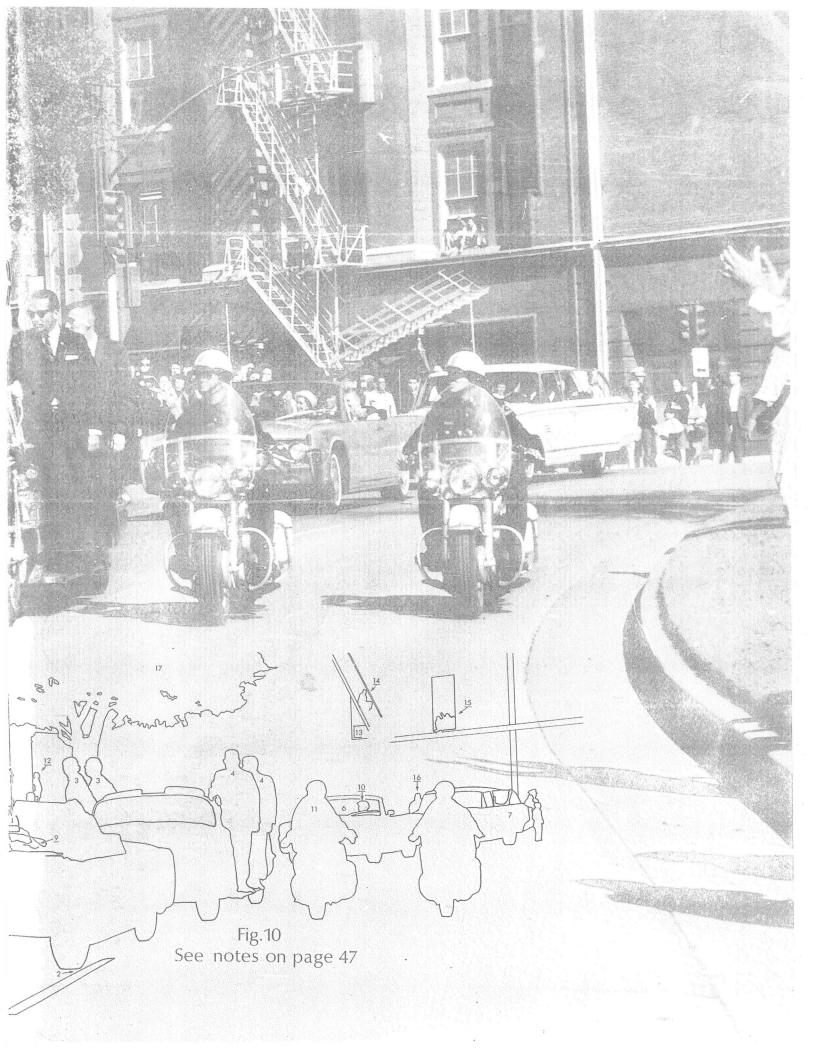


Figure 8

John F. Kennedy on Elm St. about the time of the first shot, Z 186 (Table 3, No. 101). The umbrella belonging to the "Umbrella Man" can be seen at the lower left of the Stemmons Freeway sign. Man #2 can be seen behind the wall to the left of that sign.





#### Table 1

# INDEX AND GUIDE TO LOCATION OF PERSONS AND SIGNIFICANT OBJECTS IN THE SPATIAL CHART OF DEALEY PLAZA

#### (See Chart 1, pages 48 and 49)

- 1. Areas on the Chart. The spatial chart is divided into square areas 20 feet by 20 feet, each labeled by a letter A to K from top to bottom (I 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.  $\underline{Person\ Names}$ . The name of a person in the following index refers to  $\underline{the\ location}$  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. Numbers. 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 standing in area D 7.
- 4. Motorcade. The leading portion of the motorcade including President J. F. Kennedy is shown diagrammatically 7 to 8 seconds before

the first shot. The motorcade is arranged in sequence 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 motorcade are the locations of President Kennedy's head in the lead car. These head locations are marked by a sequence of dots along Elm St. These locations were carefully determined by the FBI; they are identified by the frame numbers of the color movie film taken by Abraham Zapruder; these locations were used by the Warren Commission in their investigation. Successive frames were 1/18 second apart.

5. Note. The information shown in the diagram of the motorcade (C-J  $\overline{14},$  J 15) is not repeated in this index.

The information shown in the legend (A-E 1-4) is  $\underline{\text{not}}$  repeated in this index.

Much of the geographic information (such as locations of trees, white traffic lines, yellow marks on curbs, etc.) is  $\underline{\text{not}}$  repeated in this index.

Person or Object	Location	Person or Object	Location	Person or Object	Location
Altgens 2, 3	J 13	Kennedy behind "the"	D 10-11	Newman(s)	E 8
Altgens 6 (at Z 255)	F 8	oak tree, from Z 161		Nix 1, 2a	K 12
Altgens 7 (at Z 346)	G 8	to Z 207		Nix 2B	J 10
		Kennedy at:		Oswald's alleged window	A 13
"Babushka Lady" (who took	F 8	Z 133	C 11		
an entire movie of the		Z 161	D 11	parking area and railroad	B-E 4-5
motorcade from the op-		Z 189 (throat shot)	D 10	yard	
posite side from Zapruder)		Z 226 (back shot)	**	puff of smoke (shown in 9	E 7
Bell 1, 2	H 11	Z 238	E 9	photos)	
Bell 3	H 11	Z 255	11	railroad yard and parking	B-E 4-5
Betzner 1	E 13	Z 285	"	area	
Betzner 2	C 13	Z 312 (head shot)	F 8		
Betzner 3	C 12	Z 313 (2nd head shot)	"	scale in feet	К 8-9
	G 13	Z 346	11	shots, sources of:	R O /
Bond, 1 to 3		Z 400	G 6	lst	E 5
Bond, 4 to 9	G 11				A 15
Brehm(s)	F 9	Z 433	H 5	2nd	
Brennan	D 13	Z 465	Н 3	3rd	A 11
bullet mark(s) on curb	Ј3, Н 6	Z 485	H 1	4th	A 15
		knoll, grassy	G 2 to C 9	5th	A 11
Commerce St.	K 1-6			6th	D 6
compass directions	J 8	Main St.	J 1-15		
Connally, Gov. J. B.,	E 9	Man # : these were		Sitzman	D 7
back shot (at Z 238)		men whose names have		smoke, puff of (shown in	E 7
		not been determined		9 photos)	
Dallas County Criminal	F-H 15	Man #1, source of 1st	D 5	Stemmons Freeway sign	D 8
Courts Bldg.	10	shot at Z 189			
Dallas County Records Bldg.	C-E 15	Man #2	E 7	Taque (who was hit in the	к 3
Dallas County Sheriff's	Н 15	Man #3	E 7	face by a fragment of	
Office	n 15	Man #4	E 7	a shot)	
	A 15	Man #5, source of 6th shot	D 6	Texas School Book Deposi-	A 10-13
Dal-Tex Bldg.		at Z 313	Ъ		A 10-10
Dillard 1	C 13		see A 15	tory Bldg. at 411 Elm	
Dorman, Mrs.	A 11	Man #6, off map in Dal-Tex	see A 15	St. (TSBD)	A 13
		Bldg, source of 2nd shot		TSBD, 6th floor easternmost	A 13
Elm St.	H 1 to B 15	at Z 226 and 4th shot		window, from which Warren	
Elm St. extension	A-B 6-12	at Z 285	D 0	Commission alleged Lee	
	map, see K 15	Man #7	D 8	Oswald fired 3 shots	- 10
Courts Bldg.		Man #8, source of 3rd shot	A 11	Towner, J. 1	C 13
garage bldg. next to	A 8-10	at Z 238 and 5th shot at		Towner, T. 1	C 13
TSBD		Z 312		Towner, T. 2	D 12
grassy knoll	G 4 to C 10	Man with Umbrella	D 8		
		Martin O	н 13	"Umbrella" Man	D 8
Hester(s)	C 7	Martin 1	G 13	Willis 5, 6	D 11
Hill, Jean	F 9	Martin 2	C 12	Zapruder (location of	D 7
Holland	Н 2	material picked up by	Н 6	Abraham Zapruder during	
Houston St.	A-K 13-14	Walthers and others		the entire color movie	
Hudson and two friends	F 6	Moorman	F 9	which he took)	
Hughes 1, 2	K 14	Muchmore 1	G 13	ton no boom,	
	K 12	Muchmore 2	F 11		
Hughes 3	K 12 K 10	Muchillore 2	r II		
Hughes 5	V 10				

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 781-782. 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 partially 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 film, it has been determined that this photo was snapped at exactly the same instant as Zapruder's frame 255.

Since shots were fired at Z189, Z226, Z238 and Z2313, the Altgens photo was exposed 66 Zapruder frames after the first shot (3.6 seconds) and 58 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 faces 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 Mrs. 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 Dallas 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.

Governor Connally 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 (#8), 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 (#9). Secret Service Agent Kellerman didn't react until well after this photo.

This is not too surprising since Mrs. 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 Young-blood on top of him.

Policeman Hargis (#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 Altgens 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.

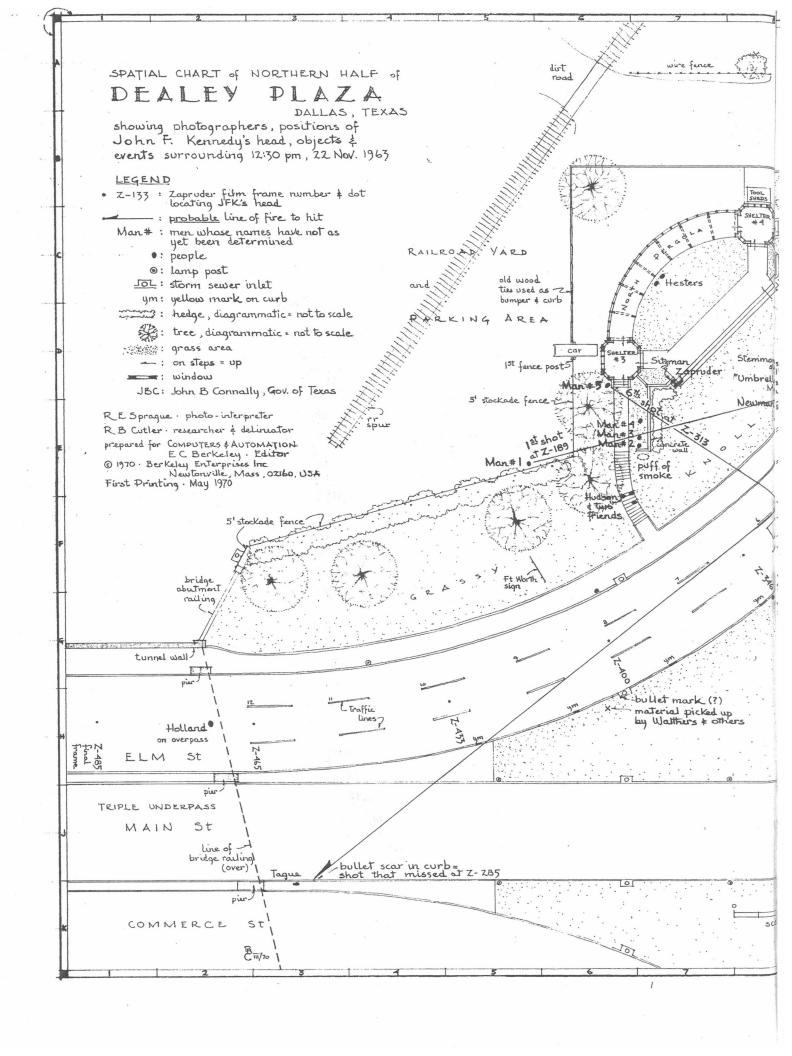
Four years later, I was able to prove that the Warren Commission was right, by using several other photographs in combination. Until then, the controversy still raged among Commission defenders and researchers.

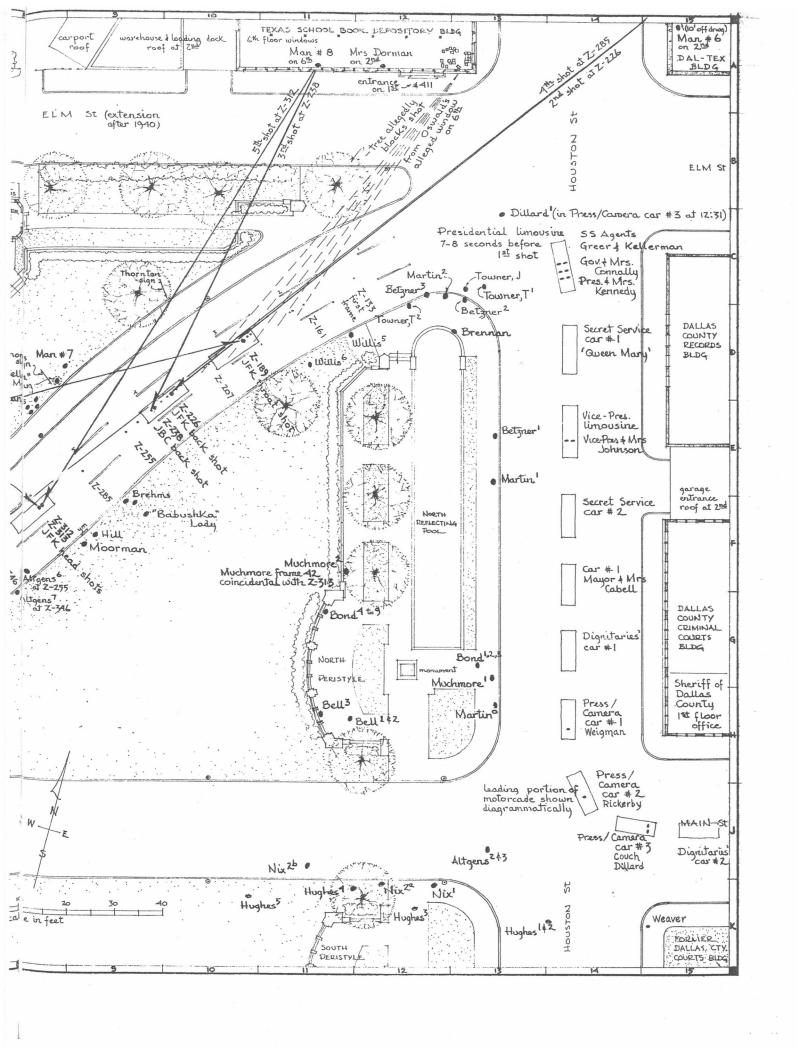
One of the most significant parts of the Altgens photo is the part showing the Dal Tex building in the background and an open, darkened window on the second floor (#13). Harold Weisberg, one of the researchers, first called attention to this window and the possibility that one or more shots might have 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 Hughes 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 begins 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 area of Dealey 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 too can be identified and located, and their pictures also 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 umbrella".

When we first see the "man with the umbrella", he is holding it closed. This is when the Kennedy  ${\bf r}$ 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. 9). 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 680 Fahrenheit, and there is no ordinary reason at all for holding an open black umbrella 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 3, 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 umbrella" might be the visual coordinator.

 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.

Table 2

# SOME IMPORTANT PHOTOGRAPHS ACQUIRED BY THE FBI AND UNAVAILABLE

Main Li		Name of Photographer	Roll and Sequence No.	Subject	<u>Time</u>
51 ≽ P	В	Mary Moorman	1	TSBD sixth floor window, before Kennedy rounded the corner	10 to 15 sec. before shots
93 P	В	Willis	13	Man arrested out- side of the Dal- Tex Building	within 20 min. after the shots
375 P	В	Foley	1	TSBD sixth floor window, with two men in the win- dow, neither of them Oswald	about 10 am, Nov. 22, 1963
376 M	ſΒ	Babushka Lady	1	Movie of JFK pro- cession (from the other side of the street from Zapruder)	about 10 to 17 sec. be- fore until 7 to 10 sec. afterwards
378 P	РΒ	James Powell, Army Intelli- gence, Dallas	1	TSBD	about the time of the shots
494 P	РΒ	Similis	1	TSBD, showing the sixth floor window empty except for box	between first and last shots
495 P	РВ	Similis	2	Kennedy further down on Elm St.	about 22 sec. after the shots

# The "Babushka Lady's" Movie

\*P = still photograph; M = movie; B = black and white

As mentioned above, the pictures show other persons also taking pictures. One of these other persons has been called the "Babushka lady" because she is wearing a babushka (a triangular head scarf). She took a movie as did Zapruder, but she took hers 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 Mrs. Beck, at the time a student at the University of Michigan at Ann Arbor, who was visiting in Dallas. After her movie was developed, Mrs. Beck talked about it to the Detroit Free Press. Then the Detroit FBI attempted to find her. 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. Beck, their films are listed separately in Table 3 (Nos. 376 & 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:

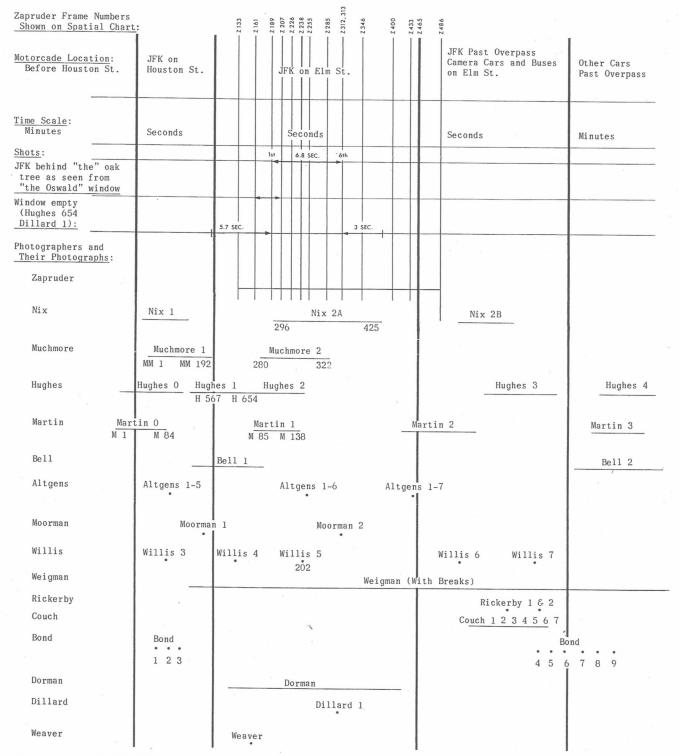
- 1. About ten men are shown being arrested.
- At least two other rifles are shown being found before Oswald's rifle was found.
- 3. "Oswald" is shown in two fake photographs with him holding a rifle. When Oswald was shown the photos he said, "That's my head but somebody else's body." That Oswald was right in this case has been clearly demonstrated by Fred Newcomb, a Los Angeles researcher.
- Oswald did not shoot Officer J. D. Tippit
  of the Dallas police force; two other men
  did. Oswald was not near the shooting
  site at the time.
- 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 TIMING CHART OF PHOTOGRAPHS, MOVIES, AND EVENTS IN DEALEY PLAZA AROUND 12:30 PM NOVEMBER 22, 1963



 $\label{eq:table 3.} \mbox{MAIN LIST OF OVER 500 PHOTOGRAPHS $^{\hspace*{-0.5em} AND}$ OVER 75 PHOTOGRAPHERS}$ 

No	hot. T	o Ype	Photographer Name & No.	Seq No.	. Photo Shows	Pho No.	to Type	Photographer Name & No.	Seq. No.	Photo Shows
	2	MC MC MC	Zapruder,1 Nix,2	1 1 24	JFK on Elm-Houston St.to Overpass JFK on Houston St. before shots JFK on Elm St. just before, during & after		PB PB	Altgens		TSBD from same position 5:19 PM TSBD from center of plaza 5:07 PM Clock
		0		24	head shot	70	PB	11	3-8	shows TSBD from center of plaza
	4	MC	**	2B	Grassy knoll and cars on Elm just after	71	PB	11	3-9	TSBD from center of plaza
	5	MC	Muchmore, 3	1	head shot		PB	"	3-10	TSBD from center of plaza
		MC	muchmore, 5	1 2	JFK on Houston St.  JFK on Elm just before, during & after	73 74	PB PB	"		TSBD from center of plaza
				_	head shot		PB	**		TSBD from center of plaza Triple overpass from same position as
	7	MC	Hughes, 4	0	JFK on Houston from Main St. 2/3 of way to				1-10	Altgens 1-6
	ο	MC	,	,	Elm	76	PB	"		Triple overpass from same position
,	8	MC		1	JFK on Houston & Elm & TSBD 6th floor win- dow empty	77 78	PB PB	"		Triple overpass from same position
	9	MC	11	2	Camera cars on Houston St Man on Dal	10	LD		4-10	TSBD 5:16 PM from same position as Altgens 1-6 Clock shows
					Tex fire escape, sitting	79	PB	11	4-17	TSBD 5:16 PM from same position as
10		MC	"		Grassy knoll after shots	0.0				Altgens 1-6 Clock shows
1:		MC MC	11		Grassy knoll after shots County Courts Bldg., Dal Tex & Main &	80	PB	"	4-18	TSBD 5:16 PM from same position as
	_	1.10			Houston	81	PC	Willis, 11	1	Altgens 1-6 Clock shows JFK on Main St.
13		MC	17		Parking Lot	82	PC	11	2	JFK on Houston St.
1		MC	"		Plaza looking south from arcade	83	PC	**	3	JFK on Houston St.
1:		MC MC	11		Parking Lot TSBD Bldg top	84		"	4	JFK in front of TSBD
		MC	"			86	PC PC	11	5	JFK after first shot
18	8	MC	Martin,5	0 **	TSBD Doorway & Dal Tex <sup>2</sup> JFK on Houston St. (from DCA Film)	87		**	7	Elm St. & grassy knoll after shots Elm St. & grassy knoll after shots
1		MC	"	1	JFK in front of TSBD Bldg.	88	PC	11	8	TSBD Doorway
20		MC MC	"		Grassy knoll & Elm St. after shots	89	PC	"	9	Houston St. looking N. from Elm, TSBD &
2		MC	11		Grassy knoll & Elm St. after shots Parking Lot	90	PC	11	10	Dal Tex
2	3	MC	"		Cop on Motorcycle with negro	, 0	10		10	TSBD front - Doorway & 5 eastern windows - Arrest and possible rifle
24		MC	"		B. Lovelady in front of TSBD	91	PC	**	11	Houston St. looking north from Elm St.
2:		MC MC	"		C. Brehm interviewed on Elm St. View North on Houston from Elm		PC	"	12	TSBD (all of it) from Houston & Main
2		MC	"		View North on Houston & TSBD doorway	93 94	PC PC	**	13 14	Man arrested outside Dal Tex Bldg.
2		MC	11	9	Front of TSBD - Cops with shotguns		PC	11	15	White station wagon on Elm about 12:45 Scenes around TSBD
2	9	MC	"	10	Dal Tex Bldg - Cop with shotgun - Police		PC	"	16	Scenes around TSBD
30	n	MC	Mentesana,6	0	Cars		PC	11	17	Scenes around TSBD
3		MC	mencesana, o		L. Florer under arrest at Houston & Elm Top of TSBD - 2 cops on 7th floor fire es-	98 99	PC PB	Betzner,12	18 1	Scenes around TSBD JFK on Houston
					cape	100		"	2	JFK in front of TSBD
3:	2	MC	"	2	Houston St. between TSBD and Dal Tex -	101		**	3	JFK on Elm about time of first shot
3	3	MC	Bell,7	1	Rifle being examined	102		Bothun, 13	1	JFK near Love Field
3		MC	DCII, I	2	JFK on Houston St. JFK in front of TSBD	103		**	2	JFK on Main approaching Houston Lead motorcycles approaching Houston
3	5	MC	**	3	JFK approaching triple overpass on Elm St.	105		**	4	JFK rounding corner Main & Houston
3		MC	"	4	Grassy knoll area just after shots	106		"	5	Arcade after shots
3		MC MC	"		Grassy knoll area after shots Center of Plaza after shots	107	PB	AP Photog- rapher,14	1	Group of photos taken outside Parkland
3		MC	17	7		108	PB	AP Photog-	1	Hospital Copy of Moorman 2 - Clearer than published
4		MC	"		Plaza from Bldg. on south later in day			rapher,15		
4:		MC PC	Pand 0	9	Plaza from Bldg. on south later in day	109	PB	AP Photog-	1	Officers & newsmen inside TSBD at 6th
4:		PC	Bond, 8	1 2	Motorcycles rounding Houston & Main JFK rounding Houston & Main	110	PB	rapher,16 AP Photog-	1	floor window  Group of officials and Bickup truck on
		PC	17	3	JFK on Houston	110		rapher,17	1	Group of officials and Pickup truck on Stemmons Freeway - TSBD in background -
4:		PC	"		Grassy knoll & Elm St. after shots			-		Taken from moving car - 1:04 PM, Nov. 22
4		PC PC	"		Grassy knoll & Elm St. after shots	111		17	2	Triple overpass from same car on west
4		PC	"		Grassy knoll & Elm St. after shots Grassy knoll after shots	112	PB		3	Closeup of overpass - 1:04 PM from car approaching
	9		**		Grassy knoll after shots	113	PB	**	4	TSBD, Dal Tex, County Records Bldg. from
	0		"		Grassy knoll after shots					moving car on Main St. near overpass -
5.	1	PB	M. Moorman,9	) 1	Motorcycle cop rounding corner Elm & Hous- ton	114	nn	11	_	1:04 PM
5	2	PB	11	. 2	Grassy knoll & JFK at time of head shot	114	PB		5	TSBD, Dal Tex from car on Main St 1:04 PM Clock shows
5		PB	Altgens, 10	1-2	Lead Motorcycles in Motorcade on Main St.	115	PB	**	6	Grassy knoll & Triple overpass from car
5		PB	"		JFK approaching Houston St. on Main					on Main St.
5		PB PB	**		JFK turning corner at Houston & Main JFK halfway down Houston toward Elm	116	PB	. "	7	TSBD, Dal Tex from car on Main - 1:04 PM
5		PB	**		JFK after first three shots & before fatal					<ul> <li>View of activity around corner of Elm &amp; Houston</li> </ul>
	_				shot. Open window, fire escape, Dal Tex			D. Miller,18	1	JFK early in motorcade
5	8	PB	"	1-7	JFK approaching triple overpass. C. Hill		DE	"	2	JFK early in motorcade
5	9	PB	11	1-8	on car Arcade & knoll from South of Elm after	117	PB		3	JFK on Stemmons Freeway - Possible man with rifle in background - Corham sign
					shots					shows JFK's-C. Hill's foot sticking
6		PB	"		TSBD 5:06 PM November 22					out of car
6.		PB	"		TSBD 5:06 PM Clock shows	118	PB	Rickerby, 19	1	(Life) Arcade & West Cupola after shots
6:		PB PB			TSBD 5:06 PM Clock shows TSBD from same position as Altgens 1-6	119	PR	"	2	(3 people)
		PB	11		TSBD from same position	117	LD		۷	Arcade & Photographers taking pictures (Cam 2)
6		PB	**	2-15	TSBD from same position 5:16 PM Clock shows	120	PB	Dillard,20	1	TSBD 6th floor window from Cam 3 (Dallas
6	7	PB PB			TSBD from same position 5:19 PM Clock shows TSBD from same position 5:19 PM	121	PR		2	Morning N) TSBD 6th floor window from Cam 3
					possessi viti In	. 41	LD		2	1999 of 11001 wildow 110m Cam 9

Ph	oto	*1Photographer	r Sec		Pho	oto	<sub>*1</sub> Photographer	Seq.	
	Type PB				No.	Туре	Name & No.	No.	Photo Shows
123	PB	Dillard,20	4	Overpass & camera cars on Elm 1:45 PM - Hand pointing to bullet mark	187 188		Wm. Allen,23	3-6 3-7	Larry Florer in Sheriff's office Larry Florer in Sheriff's office
124	PB	J. Laird,21	1	(Dallas Morning News) Scene at Parkland Hospital	189 190		11	3-8	Larry Florer in Sheriff's office
125	PB	" ,	2	11 contact prints of TSBD late on November	191	PB	**	3-10	Larry Florer in Sheriff's office Larry Florer in Sheriff's office
	PB	"	3	22 11 contact prints of Parkland Hospital	192 193		"	3-11	TSBD from a distance TSBD from closeup
128	PB PB	"	4	8 contact prints at Police station 16 contact prints of scenes around Park-	194 195		"	3-13	Two cops in TSBD doorway
129	PR	J. Beers, 22		land Hospital					Three "tramps" from R.R. yards in front of TSBD
		" beers, 22		(Dallas Morning News) Lt. Montgomery car- rying large paper bag	196 197		"	3-15 3-16	Three "tramps" on Houston St. Three "tramps" being led towards she-
130 131	PB	**	3	Lt. Montgomery with bag Lt. Johnson carrying Dr. Pepper bottle	198	PB			riff's office Bullet mark on curb
132 133		"	4	Boxes inside TSBD 6th floor window W.E. Barnett & J.M. Smith (cops)	199	PB	"	4-3	Bullet mark on curb
134 135	PB	"	6	Larry Florer on Houston St.	200	PB		4-4	Lt. Montgomery with bag & Lt. Johnson with bottle
136	PB	**	8	Area where Oswald's rifle found	201	PB		4-5	Lt. Montgomery with bag & Lt. Johnson with bottle
137	PB	"	9	Two men in police car - one negro, one Cuban	202 203		"	4-6	Lt. Johnson with bottle & lunch sack
138 139		"	.10	Same men being led from TSBD by cops	204	PB	**	4-14	Lt. Johnson with bottle & lunch sack Boxes inside 6th floor window
140	PB	**	11 12	Three tramps being led away from TSBD Three tramps being led away from TSBD	205 206		"		Boxes inside 6th floor window Boxes inside 6th floor window
141	PB	**	13	Rifle being carried away from TSBD by Lt.	207	PB	"	4-17	View down Elm from 6th floor window
142	PB	**	14	Rifle being carried away from TSBD by Lt.	208 209		**		View down Elm from 6th floor window View down Elm from 6th floor window
143	PB	11		Day Rifle being carried away from TSBD by Lt.	210 211		"	5-1	Rear bumper of car
144	DR	**		Day	212	PB	**	5-3	Cop in front of TSBD & group Group in front of TSBD
145	PB	**	16 17	Two ladies & boy leaving TSBD View from 6th floor window - Nov. 22 PM	213 214		"		Cops in TSBD doorway Police cars and crowd behind TSBD (north)
146 147		**	18 19	Oswald arrival at Police Station	215 216		"	5-6	Police cars and crowd behind TSBD (north)
148	PB	11	20	Group around TSBD	217	PB	"		Police cars and crowd behind TSBD (north) Negro & Latin man under arrest on Elm St.
149 150		"	21 22	Old white haired man led away from TSBD Scene around & inside TSBD - view of east	218 219		**	5-9	Negro & Latin man climbing in police car Negro & Latin man in police car
151	PB	**	23	side of Houston	220	PB	"	5-11	Lt. Day carrying rifle out of TSBD
152		**		3 boxes stacked up at TSBD 6th floor win-	221			5-12	Lt. Day carrying rifle toward Houston & Elm
153		**	25	dow Scene around & inside TSBD	222	PB	"	5-13	Lt. Day carrying rifle toward Houston & Elm
154 155		11	26 27	Scene around & inside TSBD	223	PB	"	5-14	Lt. Day carrying rifle approaching cor-
156 157		**	28 29	Scene around & inside TSBD	224		"		ner Lt. Day carrying rifle crossing Houston
158	PB	**	30	Scene around & inside TSBD	225 226	PB PB	"		Lt. Day carrying rifle crossing Houston Lt. Day carrying rifle in front of Dal
159 160		"	31 32		227	PB	**		Tex Lt. Day carrying rifle in front of Dal
161 162		Wm Allen 23	33	Scene around & inside TSBD (Dallas Times Herald) 12:39 PM Walthers and	228		**		Tex
202	LD	Will. Allen, 20	1-0	second official picking up something from		PB PB	11		Two women and man leaving a house Two women and man getting in police car
163	PB	**	1-4	ground 12:40 PM (Hertz clock shows) Walthers and	230	PB	11	6-5	- Another photographer shows Two women and man getting in police car
				group near spot where something picked up - South of Elm near inlet	231	PB			- Another photographer shows Two women and man in police car - An-
164 165		**	1-5	12:41 PM Grassy knoll from center of plaza	232		11		other photographer shows
100	10		1-0	Group near foot of steps on Elm - TSBD & Dal Tex in background - C. Brehm being				0-1	Two women and man arriving at police station
166	PB	"	1-7	interviewed 12:42 PM Group near foot of steps on Elm - Grassy	233	PB	"	6-8	Two women and man arriving at police station
				knoll in background - C. Brehm being interviewed 12:42 PM		PB PB	J.McAulay,24		Two women and man in police waiting room (Ft. Worth Star Telegram) Man arrested
167	PB	**	1-8	Group near foot of steps on Elm - Center of			o.mcAulay,24		in Ft. Worth near police car
168	PB	. "	1-15	plaza in background 12:42 PM Cop with shotgun - Dal Tex in background -	236 237		11	2	Man near car in Ft. Worth - Nov. 22 PM Man being led away from car
169	PB	**	1-16	Elm & Houston 12:43 PM Cop with shotgun - View east on Elm from	238	PB	H.Cabluck,25	1	(Ft. Worth Star Telegram) Spot where bullet hit grass
	PB			Houston 12:44 PM		PB	11	2	Spot where bullet hit grass
				(around 12:45 PM) TSBD from south of Elm on Houston	240 241	PB PB	"	3	Spot where bullet hit grass Spot where bullet hit grass
171	PB	" ]	1-18	TSBD from south of Elm on Houston (closer view)	242		"	5	Parkland Hospital - Many people in front Parkland Hospital - Many people in front
172	PB	" ]	1-19	Crowd held back - Corner Elm & Houston out-	244	PB	11	7	Parkland Hospital - Many people in front
173	PB ·	" ]	1-20	side County Records Bldg. Dal Tex, cops with shotguns from corner	245	PB	J.Cabluck,26	1	(Ft. Worth Star Telegram) Dealey Plaza from Helicopter late afternoon - Nov.22
174	PB	"		Elm & Houston Cops & crowds in front of Dal Tex fire	246	PB	. 11	2	Helicopter view of Dealey Plaza from east of Dal Tex
175	РВ	"		escape - Mentesana in photo	247	PB	**	3	Helicopter view of Dealey Plaza from west
176	PB	**	2-5	Cop with shotgun in front of Dal Tex 6th floor window - Man measuring cartons	248	PB	**	4	of overpass Parkland Hospital, JFK car
177 178	PB PB	"	2-6	6th floor window - Man measuring cartons 6th floor window - Man measuring cartons		PB PB	***	5	Parkland Hospital, other cars View of Railroad tracks from TSBD
179		***	2-8	Cops checking cars lined up to leave park-	251	PB	G. Smith, 27		(Ft. Worth Star Telegram) Three men from
180	PB	" 2	2-14	ing lot 12:54 PM 12:55 PM Sheriff waving out of 6th floor			8		R.R. tracks in front of TSBD under arrest
	PB	" 2		window next to "the" window "Assassins" window	252	PB	"	2	Three men from R.R. tracks in front TSBD under arrest
182	PB			12:55 PM Cops with shotguns - Dal Tex in		PB	**		Lt. Montgomery with bag
183	PB	11 2	2-17	background (looks like Murray 2-15) Larry Florer being frisked		PB	11	5	Lt. Montgomery with bag Lt. Johnson with sack and bottle
	PB PB	" 2		Larry Florer close up "Assassins" window		PB PB	"		Lt. Johnson with sack and bottle NW corner 6th floor TSBD inside
186	PB			1:00 PM Larry Florer in Sheriff's office	258		W.Davis,28		(Ft. Worth Star Telegram) Photographers
									in camera car CAM 2 early motorcade

Pho	oto ,	Photograph Name & No	er Seq		Pho	oto "	<sub>kl</sub> Photographer	Sea.	
No.	Type	Name & No	. No.	Photo Shows	No.	Type	Name & No.	No.	Photo Shows
259		Weigman, 29		Scene on Elm, grassy knoll, TSBD doorway from CAM 1	318	PB	Murray,30	2-24	Cops beside Dal Tex Bldg Houston St. side 1:08
260 261		" Murray,30	*4 2	Newmans on ground - Cong 1 & 2 on Elm St. Blank	319	PB	" (Murray went	2-25	Group in front of Dal Tex - Closeup 1:09 own to buy film)
262	PB PB	"		Blank	320	PB	"	2-26	BarBQ place downtown 1:24
200	ГD			Elm & Houston & Dal Tex from in front of TSBD 12:33	321 322	PB PB	**		BarBQ place downtown 1:24 BarBQ place downtown 1:24
264 265		"	1-4		323 324	PB PB	"	2-29	Larry Florer in Sheriff's office 1:30
266	PB	11	1-6	Parking Lot - North section 12:34 Parking Lot - South section 12:34	325	PB	**	3-2	Larry Florer in Sheriff's office 1:30 Group outside Dal Tex 12:56
267	PB	"	1-7	Elm St. Ext From west end looking east 12:34	<b>326</b>	PB	- 11	3-3	Front of TSBD & Elm St. Ext. looking
268	PB	"	1-8	Center of Plaza from knoll 12:35	327	PB	**	3-4	west 12:56 View south on Houston from Elm 12:57
269	PB	"	1-9	Closeup of large group on north curb of Elm 12:35	328 329	PB PB	**	3-5	View south on Houston from Elm 12:57 In Sheriff's office 1:06
270	PB	11	1-10	Closeup of couple on north side Elm St	330	PB	"	3-7	In Sheriff's office 1:06
271	PB	**	1-11	TSBD in background 12:36 Long shot facing overpass from steps on	331 332	PB PB	**		In Sheriff's office 1:06 In Sheriff's office 1:06
272	PB	**	1-12	Elm 12:37 Arcade & knoll from center of Plaza 12:38	333	PB	"	3-10	Mary Moorman using phone in Sheriff's office 1:06
273	PB	11	1-13	Police examine spot on ground - Hertz	334	PB	"	3-11	View across Plaza from Houston 1:07
274	PB	11	1-14	clock shows the time 12:39 Same as 13 - South Elm near sewer outlet	335 336	PB PB	"	3-12	Bar on Houston St South of Main 1:12 Bar on Houston St South of Main 1:12
275	PB	,,		- Walthers lighting cigarette 12:39 Walthers picking up something from	337	PB	**	3-14	Cab driver downtown where Murray bought
-				ground 12:39	338	PB	**	3-15	film 1:23 In Sheriff's office 1:30
276	PB	11	1-16	Walthers holding something in his hand 12:39	339 340	PB PB	"	4-4	Overpass from Elm & Houston Overpass from Elm & Houston
277	PB	"	1-17	Another official touching spot on ground	341	PB	"	4-6	Overpass from Elm & Houston
278	PB	"	1-18	12:40 Police standing around spot on ground	342 343	PB PB	"		TSBD West end - Top floor TSBD West end - All floors
279	PB	11		12:40 Police picking up other objects from two	344 345	PB PB	"	4-9	Houston & Elm activity
		11		spots - Clock shows the time 12:40	346	PB	"		Houston & Elm activity Houston & Elm activity
280	PB		1-20	TSBD Plaza & knoll from Commerce St Front doorway guarded by two cops 12:41	347 348	PB PB	"		Houston & Elm activity Houston & Elm activity - Possible ar-
	PB	11	1-21	TSBD Plaza & knoll from Commerce St.12:41					rest
282 283	PB . PB	"		Front door of TSBD from south of Elm 12:42 Front door of TSBD from south of Elm 12:42	349 350	PB PB	"	4-14	TSBD East end - Top floors TSBD East end - Top floors
284	PB	***		Front door of TSBD - Closeup 12:42	351	PB	.11		TSBD East end - Top floors
285	PB	"	1-25	Front door of TSBD - Closeup 12:43	352		"	4-17	TSBD East end - Top floors - Clock shows
286	PB		1-26	Negro boy in police car - Front of TSBD 12:43	353 354	PB PB	"		TSBD East end - Top floors TSBD East end - Top floors
287	PB	**	1-27	Front door TSBD - Closeup - Walthers in	355		17	4-20	TSBD East end - Top floors
288	PB	11	1-28	doorway 12:43 View east on Elm St. from Houston & Elm	356 357	T	Atkins,31	4-21 1	TSBD East end - Top floors Newmans on the ground
289	PB	11-	1-29	Dal Tex & County Records Bldg. 12:43	358 359	T PB	"Cancellare,3	2 1	Newmans on the ground
290	PB	**		View north on Houston from south side of					Newmans on ground - Weigman, Craven, Altgens*5
291	PB	"	1-31	Elm St. 12:44 TSBD from Houston & Main 12:44	360 361	PB	**	2	Newmans on ground - Closeup Parking lot
292	PB	**	1-32	TSBD front & doorway from Houston & Elm 12:45	362 363	PB PB	11	4	Plaza & Elm St. from knoll
293	PB	**	1-33	TSBD front & doorway from Houston & Elm				5	Crowd on north side of Elm from knoll - Babushka Lady appears
294	PB	**	1-34	12:45 TSBD doorway - Crowd in front 12:45	364	PB	**	6	Crowd on Overpass watching JFK going out Stemmons Freeway
295	PB	**		Cop with shotgun - Dal Tex Bldg. in back-	365	PB	UPI, 33	1	Lt. Montgomery carrying paper bag out
296	PB	**	1-36	ground 12:45 View north on Houston from Elm St. 12:45	366	PB	UPI, 34	2	of TSBD Officers in front of TSBD
297 298	PB PB	"	2-3 2-4	View of overpass from Elm 12:40	367	PB	"	3	Copy of Wm. Allen 1-3 with caption reading: "Dallas police search ground
		**		on Elm 12:40					for bullet believed to have lodged in
299	PB		2-5	TSBD front door - Reporter tape recording interview with Brennan 12:42	368	PB	UPI, 35	4	the earth" Negro girl crying outside Parkland
300 301	PB PB	**		TSBD front door 12:42 TSBD front door 12:42	369	DD	"	5	Hospital
302	PB	11		Walthers being interviewed in front of	507	LD		J	Negro girl crying outside Parkland Hospital
303	PB	"		TSBD 12:45 Walthers being interviewed in front of	370 371	PB PB	Stoughton, 36 Burrows, 37	1	Not sure he took anything Cam 2 Camera cars on Houston St. from Cam 2
304	PB	,,		TSBD 12:45			"		(AP)
				Policeman on 6th floor yelling out win- dow & pointing to 6th floor window 12:55	372 373		Dorman,38	2	Camera cars on Houston St. from Cam 2 JFK on Houston - Glimpses on Elm before
305	PB	"	2-11	Policeman on 6th floor yelling out win- dow & pointing to 6th floor window 12:55	374	MC	**	2	shots More glimpses on Houston after shots
306	PB	17	2-12	Three ladies on top floor fire escape	375		Unidentified	, 39 1	TSBD on AM of Nov. 22 - 6th floor win-
307	PB	**	2-13	landing of Dal Tex 12:56 Cops with shotguns in front of Dal Tex	376	MC	Photog. (Foley Mrs. Beck, 40	у)	dow Not sure film exists - Taken during
308	PB	"		12:56	377	DD		,	shots
				Cops with shotguns in front of Dal Tex 12:56	377 378	PB	Weaver,41 Powell, 42	1	TSBD 6th floor window before first shot Cannot find him
309	PB	"	2–15	Cops with shotguns in front of Dal Tex 12:56	379	PB	Volkland, 43	. 1	JFK on Stemmons Freeway - Back of TSBD & Parking lot
310	PB	"	2-16	Cops with shotguns in front of Dal Tex	.380	PC	MacCammon,44	1	Group of police interrogating an old
311	PB	11	2-17	12:56 Larry Florer being interviewed in Sheriffs	381	PC	11	2	negro outside TSBD Group of police interrogating an old
312	PB	**		office 1:06 Larry Florer being interviewed in Sheriff's	382	PC	ń.	3	negro outside TSBD
				office 1:06	383	PC	11	4	Scene in Dealey Plaza Scene in Dealey Plaza
313 314	PB PB	. "		Four men in Sheriff's office 1:06 Larry Florer 1:06	384 385	PC	"	5	Scene at Tippitt shooting
315	PB	"	2-21	Larry Florer 1:06	386	PC	, "	6 7	Scene at Tippitt shooting Oswald in Texas Theatre just before
316 317	PB PB	"		Larry Florer 1:06 Cops beside Dal Tex Bldg Houston St.	387	PC	"	8	arrest Oswald in Texas Theatre just after
				side 1:08					arrest

Ph	oto	*1Photographe	r Sec						
No.	Туре	Name & No.		Photo Shows	Ph No.	oto Type	*1Photographer Name & No.		Photo Shows
388	PB	Jackson, 45	1	(Times Herald) Photo of cars on Houston St.	435		M. Couch, 49	4	Cop with revolver drawn - South of Elm
389	T	A.J.L'Hoste,		Station WFAA-TV (ABC) Photographer - Cop carrying shotgun toward TSBD	436	Т	"	5	Brehm, Babushka Lady, Summers, Hill, Moorman, Tague South of Elm - Sweeping
390				Decker. Brennan, Cop with shotgun outside TSBD doorway	437	T	**	6	view to overpass Photographers on knoll - Newmans on
391 392	T	11	3	6th floor window from underneath	438	T	***	7	ground Haygood trying to jump cycle over curb
393 394	T	"	5	Larry Florer led toward Houston & Elm Decker being interviewed in front of TSBD	439	m	"		north of Elm - Weigman & Cancellare running to catch CAM 1
395	_	"	7	Four cops with shotguns - Dal Tex in background		-	"		Crowd on North side of Elm - Taken from arcade
396		"	8	Larry Florer being led down Houston St 3 other photographers show up	440			9	Houston & Elm
397		**	9	Larry Florer going into garage entrance of Sheriff's Bldg.	441	Т	"	10	Crowd on North side of Elm - Taken from car driving on Elm (All of above are
398 399		"	10 11	Two cops leading negro witness into TSBD Possibly two men placed in police car in	442	T	**	11	taken prior to 12:35 PM - Nov. 22) TSBD 6th floor window inside - Cops
400		**	12	front of TSBD Same two men driving down Elm St.	443	T	**	12	looking out TSBD from center of Plaza - Zooms in on
401	Т	"	13	Mexican & negro led to police car on Elm St.					6th floor window - Pans down to knoll - Then to corner of Houston & Elm &
402	T	"	14	Same two being placed in car - Another photographer	444	m	"	- 0	back to overpass - Executive train moving on overpass
403	T	T. Alyea,47	1		444 445		**	13	Arcade with several people in it WFAA Commentator shows rifle & telescopic
404	T	"	2	knoll					sight similar to Oswalds lying in Plaza grass - Demonstrates bolt action
	T	11	3	Scene outside TSBD Scene outside TSBD	446 447	T T	"		Center of Plaza from knoll Cupola, Zapruder's position & arcade (Se-
407		"	5	Scene outside TSBD Scene outside TSBD					quences 11 to 16 above were taken be- tween 3 and 4 PM - Nov. 22)
	T	**	7	Police searching through 6th floor Police looking out 6th floor on Houston	448	T	D. Cook, 50	1	(KTVT-Channel 11 Fort Worth) JFK on Main and rounding corner Houston & Main -
410 411	T T	11	8	St. Cop sticks head out toward Elm St.	449	T	**	2	Taken from in front of Sheriff's office Cop with drawn revolver & crowd on Elm
	Т	"		Area showing lunch sack & Dr. Pepper bottle	450	T	**		less than two minutes after fatal shot Activity in parking lot
413	T	"		Rifle on 6th floor of TSBD - In hiding place - Sheriffs & police examine spot	451 452		11	4 5	Looking east on Elm St. Ext. toward TSBD In front of TSBD
		"		Closeup of rifle posed for photo - Sight visible	453 454	T T	11	6	Inside TSBD - Lower floor Inside TSBD - Sixth floor
414				Policeman holds rifle up - Second cop points at bolt	455	T	11	8	Arrest & possible rifle (same as Willis
415		"		Group near boxes where rifle found - Newsmen taking notes	456 457	T T	"	9	Larry Florer arrest Scene of Plaza
416	Т	11	14	Lt. Day dusting live shell for finger- prints. Bullet visible	458 459	T	"	11	Scene in front of TSBD
417 418		R.Reiland,48	15 1	Sheriffs talking on 6th floor (WFAA-TV ABC) Frame Bldg. in Oak Cliff -	460		T.Craven,51		Scene of knoll (All of above by Don Cook were taken prior to 1:30 PM - Nov. 22)
				Where assassin thought to be - Men sneaking upon it - Could be library or	461		#		(CBS) From CAM 1 Houston St. before the shots
419	Т	11	2	temple Two police cars speeding along residen-	462		**		Knoll after shots - Craven jumped out of CAM 1 Closeup of Newmans
40.0				tial street in Oak Cliff - Police go into old frame building	463	T	"		Arcade (2, 3, 4 above were taken within
420	Т	"	3	Cop holding up light grey jacket - Near parking lot	464 465	T*6 T*6	Underwood, 5	2 1	2 minutes after fatal shot) (KRLD-CBS) TSBD sign over doorway
421	Т	, "	4		466	T	#		Sixth floor window from directly beneath Cops with shotquns - Dal Tex in back-
422	T	"	5	Several police cars & cops near Tippitt shooting site - Cop runs toward police	467	T	#	4	ground Cops with shotguns - Dal Tex in back-
423	Т	11	6	car holding gun butt Group gathered around Tippitt's car.	468	т	**	5	ground - Police photographer leaving TSBD
				Piece of paper or poster lying on dash- board - No detail	469		11		Fire engine moving North to Elm on Hous-
424	T	**	7	Cops examine Tippitt's billfold (accord- ing to Reiland who is narrating) - Note	470		**	6	Cops with shotguns Fifth floor window TSBD from directly be-
				pad inside - Cops point to it - Cop holding Tippitt's pistol beside his car	471	T	**	8	neath Cop with shotgun & police official - Dal
425	T	"	8	Group around Tippitt shooting site (over- exposed)	472	T	**	9	Tex in background Sixth floor window from beneath - Pans
426	T	**	9	Crowd around police car in business sec- tion - It drives away with someone in					down to view West on Elm St. Ext Several cops moving fast - Police car
427	Т	**	10	back seat Police cars driving up to Texas Theatre	473		11	10	in center cop getting out Cop looking up at TSBD with shotgun
	T T	**	11	Texas Theatre looking up at tower Texas Theatre - Cops going in - Car pulls	474 475		**	11	Cop looking up at TSBD with shotgun Same cop looking up at County Records
430	Т	**		away Inside Texas Theatre - Very dark - Lights	476		**	13	Bldg. Several men going into TSBD doorway
			10	blinking - Cops hustle Oswald toward	477		"		TSBD from Houston St Pans in on 6th floor window
431	T	"	14	inside doorway Crowd gathered around police car outside Texas Theatre - Oswald inside in back	478 479		11	15 16	Several more men going into TSBD doorway Cop & two police officials running fast
432	Т	M. Couch, 49	1	seat - It drives away (WFAA-TV ABC) In CAM 3 - Motorcade on	400	m	**		from near TSBD doorway toward garage entrance of County Record Bldg.
	T	"		Main St. approaching Houston St. Front of TSBD - Crowd on north side of	480 481		11	17 18	Fireman going into TSBD carrying ladder Arrest & possible rifle in front of TSBD
			_	Elm as CAM 3 rounds corner Houston & Elm	482	T	**	19	(same as Willis 10) Decker being interviewed in front of
434	Т	**	3	CAM 1, CAM 2, other photographers on		T	**	20	TSBD (shows in Murray) Fake secret service man & Roger Craig in
				knoll - Newmans on ground - man with umbrella folded - Officer Haygood ap-	483	Т	J.Darnell,54	1	front of TSBD (shows in Murray) (WBAP-NBC) Elm St. activity after he
				proaching north curb - Hargis running to cycle South of Elm St. as CAM 3 moves					jumped out of CAM 3 - Less than 1 min. after fatal shot
				down Elm					

		,Photographer			Pho	oto .	Photographer	Sea.	
No.	Туре	Name & No.	No.	Photo Shows	No.	Туре	Name & No.	No.	Photo Shows
484	T	J.Darnell,54	2	In parking lot	501	5	Unidentified		Appears in Muchmore 1
485	T	11	3	In front of TSBD - Arrest of man on Elm			Man,66		Appears in muchinore i
486	T	**	4	In WBAP press room - Old Co. Court House	502	3	Unidentified		Appears in Martin 3
				- Witness interviews			Man.67		Appears in Martin 5
487		D.Owens,55	1	(WBAP-NBC) In front of TSBD	503	?	Overpass		Policeman says he saw someone on overpass
488		"	2	Decker being interviewed in front of TSBD			Man.68		taking pictures
489	T	KRLD,56	1	(Photographer unknown) Two men running in	504	3	Unidentified		Brennan says he saw her taking pictures
		*		shadow of fence toward old building a-	1.		Woman,69		broman days no saw nor taking protures
				mong trees & shrubbery - Could be li-	505		Unidentified		Appears in Altgens 1-4
				brary or church in Oak Cliff where sus-			Woman,70		11
400				pect was believed to be hiding	506		Unidentified		Appears in Murray at Houston & Elm
490		T. Towner, 57	1	JFK rounding corner Houston & Elm			Man,71		
491		**	1	JFK rounding corner Houston & Elm	507	5	Unidentified		Appears in Murray 1-22, 1-23, 2-5, 2-6
492		"	2	Camera cars going down Elm St.			Man,72		and 2-7 in TSBD doorway
493		P.Paschall,59	1	JFK going under overpass	508	5	Grant,73		Not sure he took anything - Was in CAM 2
494		N.Similas,60	1	JFK on Elm - TSBD in background	509	3	Unidentified		Took Elm St. photo before motorcade ar-
495		"	2	JFK on Elm - Overpass in background			Man,74		rived
496		D.Moorman,61	1	JFK in car after shots (Sold to AP)	510	5	Unidentified		JFK early in motorcade. Jack Ruby? &
497		J.Newman,62	1	JFK on Stemmons (Sold to AP)			Photog,75		stripper? standing on curb
498	PB	T. Howard, 63	1	JFK at time of fatal shot - Eva Grant says	511	3	Unidentified		Man taking movies from upper floor of Dal
				Howard had this photo - Not sure it			Photog,76		Tex Bldg. Sorrels took possession.
499	0			exists					See Sawyer Test. 6H324
499	٢	Unidentified		Appears in Wm. Allen 196	512	3	Joe Scott,78		TSBD scenes - KRLD photographer
500	2	Photog,64							, , ,
300	٤	Babushka		Could be Babushka Lady - Appears in many					
		Lady,65		pictures taken north and south of Elm -					
				Probably took movie of fatal shot					

 $^{*1}$ Legend for Type of Photo: M - Movie; P - Still Photo; T - Televi-

sion Footage; C - Color; B - Black & White
\*2There are 10 other photographers' sequences in the DCA film in ad-

\*3"Ike" Altgens, Associated Press, remembered taking only three of the photos he actually took in Dealey Plaza. He took seven at the time of the motorcade and 21 more after 5 PM. The actual roll and frame numbers on the negatives are given.  $^{\ast 4}\mathrm{James}$  Murray used two cameras, one telefoto and one wide angle.

The rolls as numbered alternate between the two cameras. 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 2,4,6,8, and 10 therefore are interspersed with Rolls 1,3,5,7, and 9 on a more or less random basis. Only the times listed indicate the true sequence. The roll and photo numbers listed are those appearing on the actual films. Only rolls 1 through 4 are listed here. Rolls 5-10 were exposed either on Nov. 23 or later, or the night of Nov. 22 in locations other than Dealey Plaza.

In addition there are four other Black Star photographers who took pictures: Gene Daniels, Matt Herron, Shel Hershorn and Mr. Shulke.

Gene Daniels took a total of 260 black and white, 35 mm still photos during the November 22-24 period. A few of these were taken the afternoon and evening of November 22 and the rest on November 23 and 24. There are scenes at Dealey Plaza, TSBD, Sheriff's office, Police station, Police press conferences, Oswald's rooming house and room, Oswald's public appearances, and views of Elm St. from Dal Tex Bldg. through telescopic

Their photos are not counted on this list because they were

not taken on November 22 in Dealey Plaza.

Man with sign saying "S.O.B. Jack Kennedy" is standing on South curb of Elm, facing position of man with umbrella. This phot taken about 1 minute after shots. Could be a signal for suc-

Underwood and Sanderson shared the same camera. Underwood borrowed it from Sanderson shortly after shots were fired, then returned 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 input 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. When 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 OBJECTS IN THE PHOTOGRAPHS — PRELIMINARY LIST OF CODES

	Person:	<u>S</u>	Buildings						
W. E. Barnett boy C. Brehm Brennan cab driver cop 2 cops	102 103 104 105 106 108 109	man (unident.) man with sign Lt. Montgomery motorcycle cop Negro Negro girl Newmans	129 130 132 133 134 135 136	BarBQ place County Courts County Records Dal-Tex frame buildings house	301 302 303 304 305 306	library or church old building Parkland Hospital police station Texas Theatre TSBD (Texas School Book Depository)	307 308 309 310 311 312		
cops (officers) couple Roger Craig Craven Latin man (Mexican, Cuban)		newsmen (reporters) officials old Negro L. Oswald people (crowd)	137 138 139 140 141		Actions and E				
Lt. Day Decker fake secret service man fireman	115 116 117 118	photographers Jack Ruby sheriff(s) J. M. Smith	142 143 144 145	arrest carrying checking cars	401 402 403	interrogating interview leading	409 410 411		
L. Florer Haygood (officer) Hargis Clint Hill	119 120 121 122	Sorrels stripper Summers Tague	146 148 149 150	<pre>climbing crying dusting for fingerprints gun exam'n</pre>	404 405 406 407	lighting cigarette measuring tape recording telephoning	412 413 414 415		
Lt. Johnson J.F.Kennedy ladies (women) B. Lovelady	123 124 125 126	Tippit tramps woman (unident.) Walthers	151 152 153 154	head shot	408	waving yelling	416 417		
man arrested man in shirt sleeves	127 128	Weigman white-haired man	155 156		Objects	-			
	Regions or	Places		back seat billfold boxes	501 502 503	live shell motorcade motorcycle(s)	522 523 524		
arcade area where Oswald's rifle found	201 202	N.W. corner 6th floor TSBD bldg. inside Oak Cliff	218 219	bullet bullet mark camera (cam)	504 505 506	note pad paper bag (sack) paper or poster	525 526 527		
bar on Houston St. Commerce St. curb TSBD doorway	203 205 206 207	overpass (triple overpass) parking lot plaza	220 221 222	camera cars cars cigarette clock (Hertz)	507 508 509 510	pickup truck police cars rear bumper rifle	528 529 530 531		
east cupola 7th floor fire escape 6th floor window of TSBD	208 210 211	police (waiting room) railroad tracks residential street	223 224 225	congressional car #2 Corham sign dash board	511 512 513 514	sewer outlet shadow shot gun(s)	532 533 534 535		
Ft. Worth garage entrance of Sheriff's building grassy knoll	212 213 214	sheriff's office spot where bullet hit grass (bullet mark) Stemmons Freeway	226 227 228	Dr. Pepper bottle fence fire engine foot	515 516 517	shrubbery telescopic sight trees umbrella	536 537 538		
Houston St. Love Field Main St.	215 216 217	steps Tower used car lot west cupola	229 230 231 232	gun hand J.F.K. car light gray jacket	518 519 520 521	unidentified object(s) white station wagon windows	539 540 541		

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 Warren 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 1). 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 Main 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 period 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 frame 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-

Table 5

# CODING SHEET FOR COMPUTER-ASSISTED ANALYSIS OF PHOTOGRAPHS — PRELIMINARY

<u>Field</u>	Coding <u>Instructions</u>	Approx. No. of Characters
A. Identification:		
1. Photograph Number *	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, T for television footage	2
3. Photographer	Use photographer number in main list	2
4. Sequence number	Use photograph sequence number in main list	5
<ol><li>Person who analyzed photograph</li></ol>	Use analyst identifying number according to a previously established key	2
B. Contents of the Photogram	raph:	
a picture may of	Use photographer number. Previously, make an alph- abetic key to photograph- ers from main list	0 to 12
<ol><li>Other persons (in the picture who are not photographers)</li></ol>	Use person code in Table 4	0 to 12
3. Regions or places	Use place code in Table 4	3 to 12
4. Buildings	Use building number in Table 4	0 to 12
5. Events and actions	Use code in Table 4	3 to 12
6. Objects	Use code in Table 4	3 to 12
7. Place of the photo- graph	Use the grid shown in the map, letter first, then number	2
8. Time	Use time code. Previously, adopt a scale of times: fractions of seconds, labeled with Zapruder frame numbers during the Zapruder movie sequence showing the shots; then, seconds, minutes, and hours before and after the Z sequence as may be appropriate; then, days and dates	5
9. Capsule summary of photograph	Use 10 to 30 words des- cribing the contents and importance of the photo- graph, according to specified rules for sum- marizing and examples	60 to 200
Approxi charact	mate maximum number of total ers for one computer record:	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

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 bushes, 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?
- 2. Can the faces of the gunmen be seen?3. According to the Warren Report, 56 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.)
- 4. Do the photographs show that shots came from the knoll? (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 gunmen 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

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siah Thompson, William Turner, and Harold Weisberg. 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 omission or commission or incomplete or inadequate analysis of some of the evidence, I would greatly appreciate any comments and corrections any reader 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 commercial rate for the use of the picture.

If any reader of this article desires to ask some specific questions in regard to the assassinations of President John F. Kennedy, or Martin Luther 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 Computers and Automation, Att'n K, 815 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 NCTIA, he should write to Bernard Fensterwald, Jr., Chairman, 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 \$5 from Cutler Designs, 38 Union St., Manchester, Mass. 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 Martin 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 minds 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.
- $\bullet$  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 assassination — some of the same people who had participated in the assassination of his brother. I do not know why Senator Robert Kennedy remained silent; why Senator Edward 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 madman or a fool or insane? — No. I think that he is absolutely sane, and one of the old-style Americans left, and that he has a great deal of courage. He <u>also</u> suffered from underestimating the strength of the forces ranged against him. In addition, the CIA penetrated his case against Clay Shaw; they were even paying the lawyers 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."

 Why did the national news media 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, <u>A Citizen's Dissent</u>, now in paperback.

 Are you telling me that men as distinguished as Chief Justice Earl Warren, John J. McCloy, Allen Dulles, Gerald Ford, and others on the Warren Commission can be wrong about their conclusion expressed in the Warren Commission Report? - Yes. If you want to know how and why, read the book Inquest by Edward J. Epstein, which is a valuable contribution. But Epstein was paid several tens of thousands of dollars (perhaps indirectly from government 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, has 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 about 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.
- 4. It would be good to dismantle the Central Intelligence Agency which President Kennedy before he was assassinated said he

would like to do - and distribute its functions elsewhere, and in the meantime make it accountable for budgetary funds

voted by Congress.

5. It would be good to expose J. Edgar Hoover, to call the attention of the public to his suppression of evidence and his failure to warn President Kennedy of the plot for assassinating him in Dallas, and to compel his resignation. The FBI knew about the plot well ahead of time - through Oswald's Nov. 20 phone call, and the Miami police's warning, at least.

- What about an organization dealing with this subject? - There is one. As mentioned above, a considerable amount of the new evidence comes from the work of a group of researchers, who have interviewed many witnesses, examined many documents, and studied many of the photographs. This group of researchers is loosely coordinated by the National Committee to Investigate Assassinations, which has an office in Washington, D.C., and whose chairman is Bernard Fensterwald, Jr. He is a Washington attorney 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-committee of the Government Operations Committee. The NCTIA has been accumulating 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 Assassinations, 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 Mirror, Midlothian, Texas, who 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 this 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.
- Have 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 propaganda 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, Memphis, 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 more 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. N.W., Washington, D.C.