# 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 conspiracy.

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 mo-

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 "1904") 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 Crleans in Feb. and March, 1969, public opinion poils 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 37 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 overwhelming.

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.

COMPUTERS and AUTOMATION for May, 1970



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- 2. 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 photo-

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 Accessories after the Fact, 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 Inquest: the Warren Commission and the Establishment of Truth, by Edward Jay Epstein, published by the Viking Press, New York, N.Y., 1966, 224 pp. Epstein makes a pregnant remark at the beginning of his Chapter 9, "The major problem in the writing of the Report was the selection of the evidence. From the tens of thousands of pages of evidence, which facts were to be included and which facts excluded?" This book is an illuminating account of what actually did happen in the work of the staff of the 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 Belium by Frontiers Publishing Co., Vaduz, Liechtentein, 1968, 418 pp. (One cannot be sued in Liechenstein.) This book is apparently based largely n information collected by certain former members f the French intelligence service, who penetrated he plot to assassinate President Kennedy. According to the book jacket, the author, James Hepburn, ttended the London School of Economics and later raduated from the Institute of Political Studies n Paris. (However, "Hepburn" is a pseudonym.) he book gives a large amount of information about he plot to assassinate Kennedy, its background, and parallels in history. The book alleges that Edgar Hoover knew of the plot beforehand and did othing to stop it. It also alleges that a Texas il 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.

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

The trial was accurately and very fully reported in The Times Picayune, 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 together
  in twos and threes, at various times and
  places.
- 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 Min-ute 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 follow-ing 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 Socret 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 tel-ephoned the informer to say that Jack Kennedy was coming that day to Dallas, and would probably neve be seen in Miami again. The informer interpreted and would probably never 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 conspir-They became very disturbed, and then decided acy. 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 tele phoned 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 tenm would need to know what was going on. Hicks had set up a communications center at the Adolphus Notel prior to the assassination. The photograph Narris had seen is a picture of Jim Nicks 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:

1. 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 Kennedy. The Kennedy President Kennedy's death. 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.

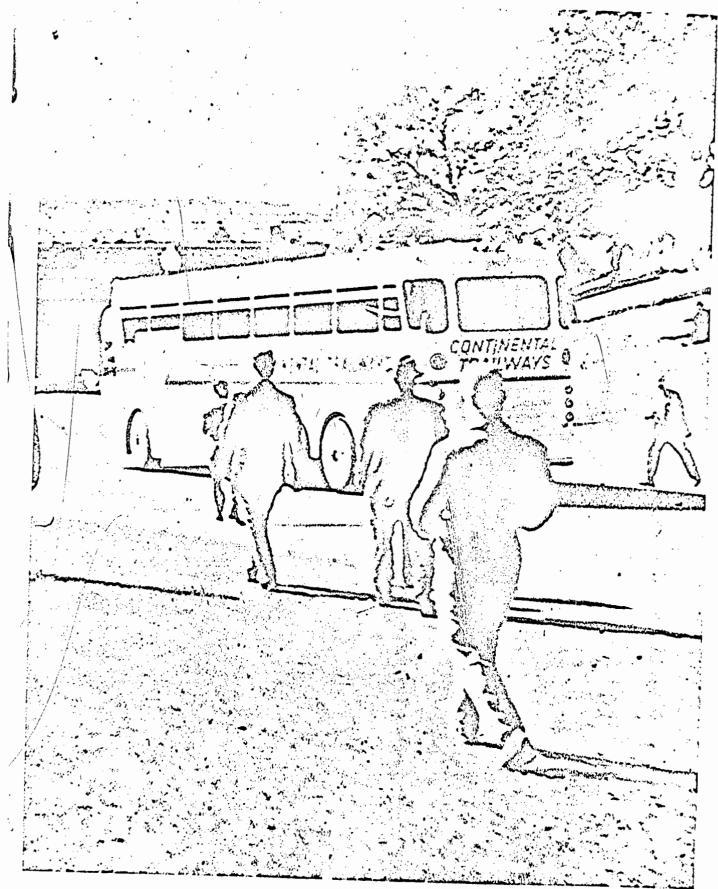
5. The Warren Commission (in an admitted error) published Zapruder frames 314 and 315 in reversed order, so that the motion of JFK's head after the fatal shot was reversed.

6. The Warren Commission ignored the visible and violent backward motion of President Kennedy's head shown in the Zapruder film 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:

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



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 Saturday Evening Post on April 6, 1968.

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 away 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 not allege that the CIA, the Secret Service, Lyndon 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

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

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 not in this window — which would be complete proof that he was not there. Norman Similas, and also an editor of Liberty 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 The witnesses, notably Howard Brennan, witnesses. said that the assassin was leaning out of the win-dow 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 posi-tion. 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 Life. But a direct copy of the original was subpoensed 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 news-paper reporters, and the spectators in the court room all became convinced that Oser and Carrison 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.
  - 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 Six Seconds in Dallas.)

Either one of these statements renders impossible the Warren Commission Report's conclusion, that only three shots were fired, the second one missing en-tirely 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. How-ever, 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 <u>Life</u> 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 demon-strate convincingly the second statement, the backward thrust of President Kennedy's head at the time of the fatal shot.

Life magazine would be able to earn millions of dollars from showing the Zapruder film. In three days of showing the Zapruder film, uncut, clear, and not tampered with, on national television, every person in the United States who watched television could see for himsolf 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 ward motion by conjecturing a speedup in the commotion causing a "snap backward". The Zapruder the car's 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 Six Seconds in Dallas, proves beyond a

shadow of a doubt, that only the force of a high ... velocity bullet striking Kennedy's head from the front could produce the head accoleration backward shown in Engruder 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

portant activities. Coupled with the testimony of the Warren Commission wrong on several other points.

Solution many other significant and important activities. Coupled with the testimony of the photos also show where and how men #2.3 6 4 ran away after the shots.

The photos also show where and how men #2.3 6 4 ran away after the shots. (see Chart 2) show many other significant and important activities. Coupled with the testimony of the coupled with the couple To describe nil of these points in detail requires more space than is here available. But the follows ing list summarizes these activities and conclu-1. 1. 1. sions (see also Chart 1 for timing and direction a Common of shots).

a. The first shot, fired by mnn #1 from behind the fence on the grassy knoll, hit Kennedy in the thront at Z109 (Z numbers

grassy knoll hit Kennedy in the head at Z313.

g. Man #2 "created" a puff of smoke as an ap-parent diversion (as it turned out, the diversion was not needed) and then ran

scured by a large oak tree. (Bl1 on Chart object)

1. A man who looked very like Oswald ran down the grassy knoll ten minutes after the shots were fired and drove away down Elm St. with a Latin-appearing man in a light-colored station wagon with a luggnge 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.

### Mon Who Ran Away

Many photographs were taken within an hour afgrassy 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

and the fact of the first

labeled for the present as Man #5. He is apparent-ly 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 onr, which had been previously parked just . 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

### 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 Snwyer of the Dallas hind the fence on the grassy knoll, not Kennedy in the thront at Z109 (Z numbers in the text and on the Map refer to frame in the text and on the Map refer to frame in the text and on the Map refer to frame in the text and on the Map refer to frame in the Expruder Film. The frames were 1/10 second apart. The Z numbers on the map show the location of Kennedy in each Zapruder frame).

b. The second shot, fired by man #6 from the second floor window of the Dal Tex Builde ing, struck Kennedy in the back at Z226.

c. The third shot, fired by man #0 from the Dal Tex Building struck the curb on the south side of Main St. at about Z205.

d. The fifth shot fired by man #0 from the Dal Tex Building struck the curb on the south side of Main St. at about Z205.

The fifth shot fired by man #0 from the Text Building struck the curb on the south side of Main St. at about Z205.

The fifth shot fired by man #0 from the Text Building struck the curb on the south side of Main St. at about Z205.

The fifth shot fired by man #0 from the Text Building struck the curb on the south side of Main St. at about Z205.

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The fifth shot fired by man #0 from the Text Building struck the curb on the south side of Main St. at about Z205.

The fifth shot fired by man #0 from the Text Building struck the curb on the south side of Main St. at about Z205.

The fifth shot fired by man #0 from the Text Building struck the curb on 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.)

(See map and Fig. 1.)

The route that Harkness would naturally take if The route that Harkness would naturally take in the went to the Sheriff's office with the three "tramps" is exactly the route portrayed in the scries 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 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

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 mast 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 communica

tions device or a hearing aid.

Sergeant Harkness and Sheriff Elkins both indicate there was no other policeman with Harkness when he arrested the "tramps" and when he 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

(Text continued on page 50)

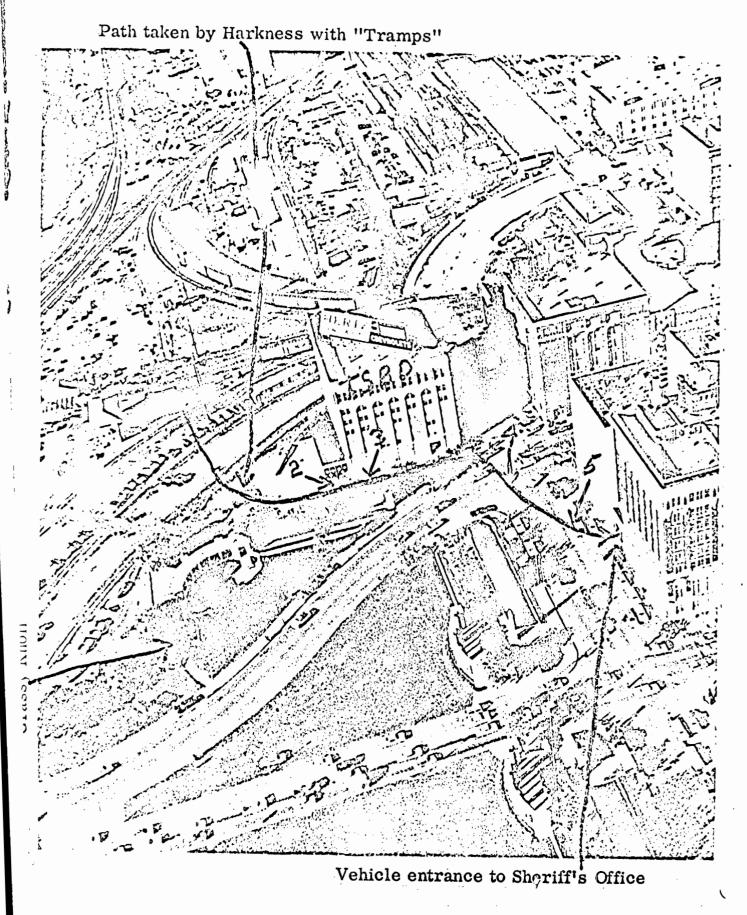
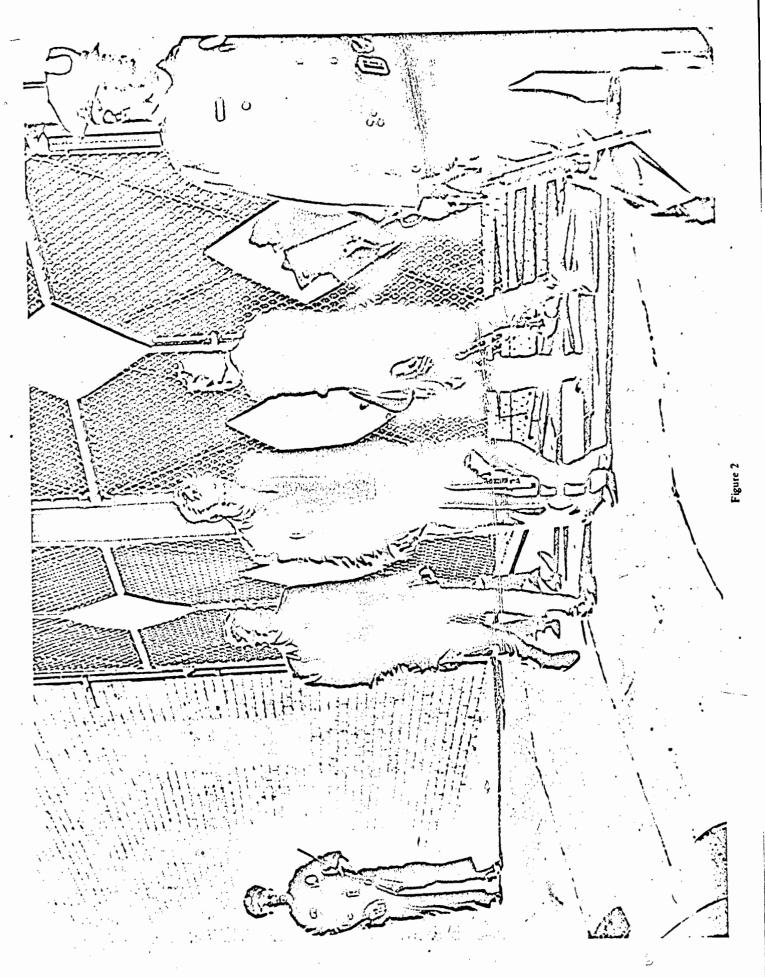
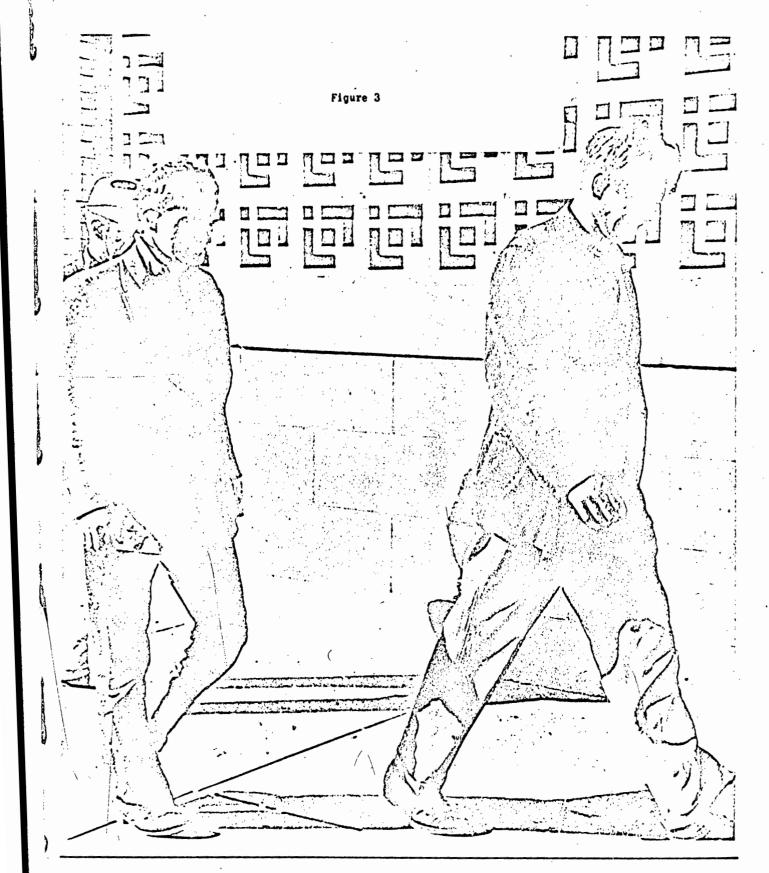


Figure 1

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.



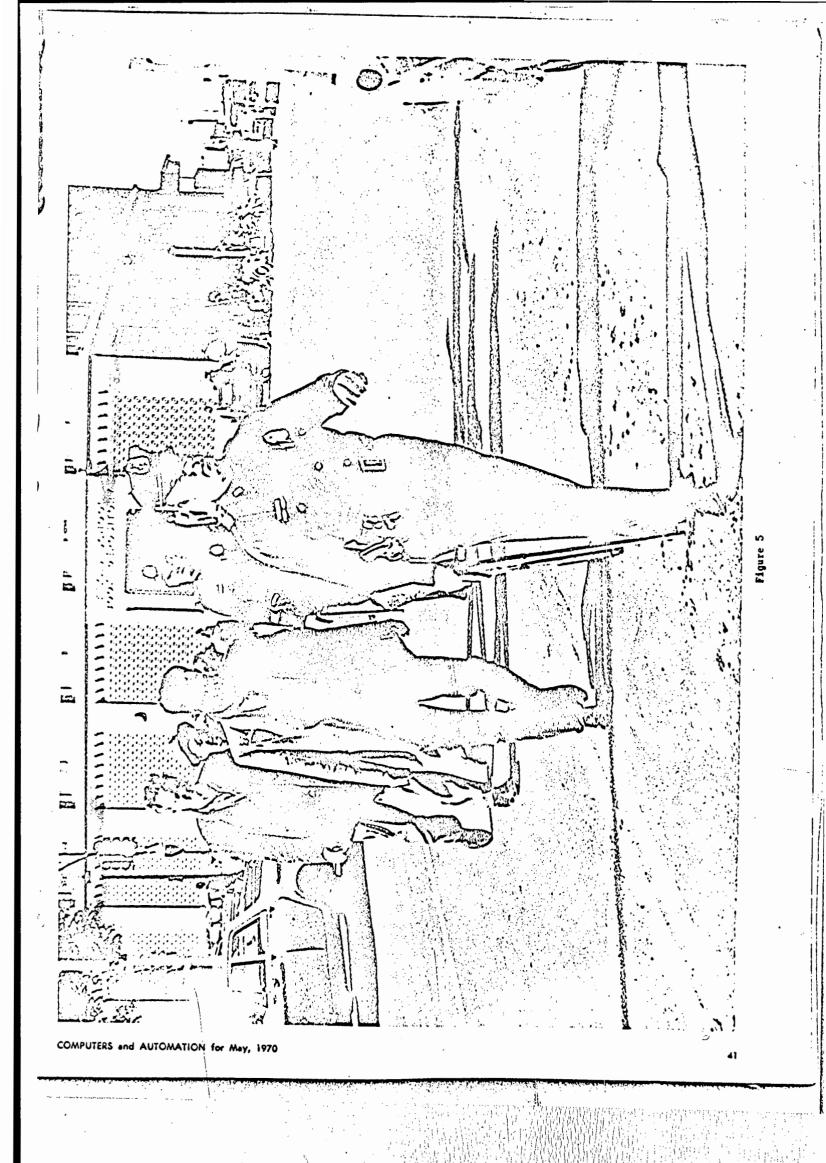


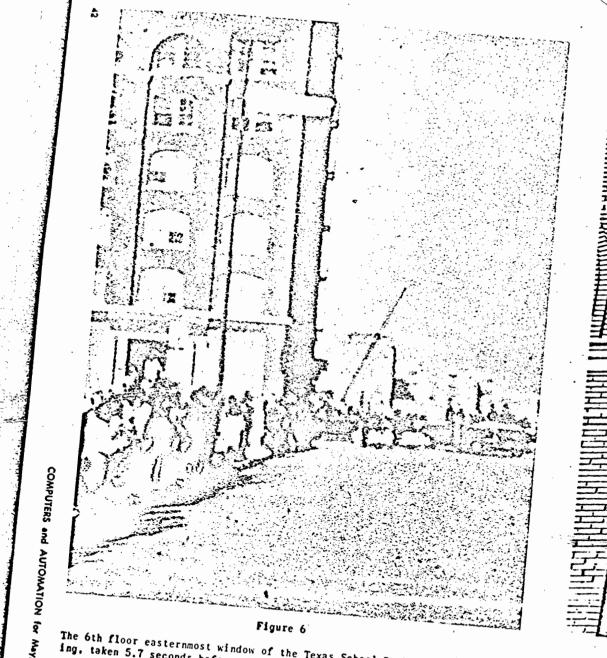
Figures 2, 3, 4 and 5

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 car (see Figure 2). Why? He is the only one who is wearing rubbers. Why? His pistol handle appears to be different from Harkness' pistol. Why? It would be interesting to discover this man's identity, and ask him some questions.

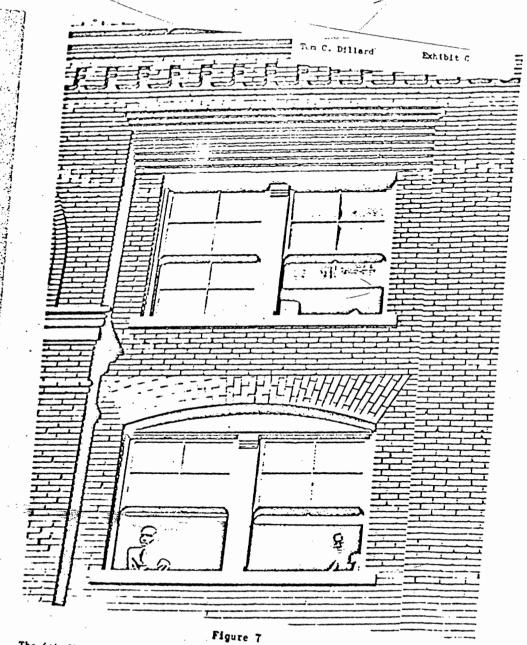








The 6th floor easternmost window of the Texas School Book Depository Building, taken 5.7 seconds before the shooting, showing the window less than one quarter open. (Table 3, No. 8)



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)



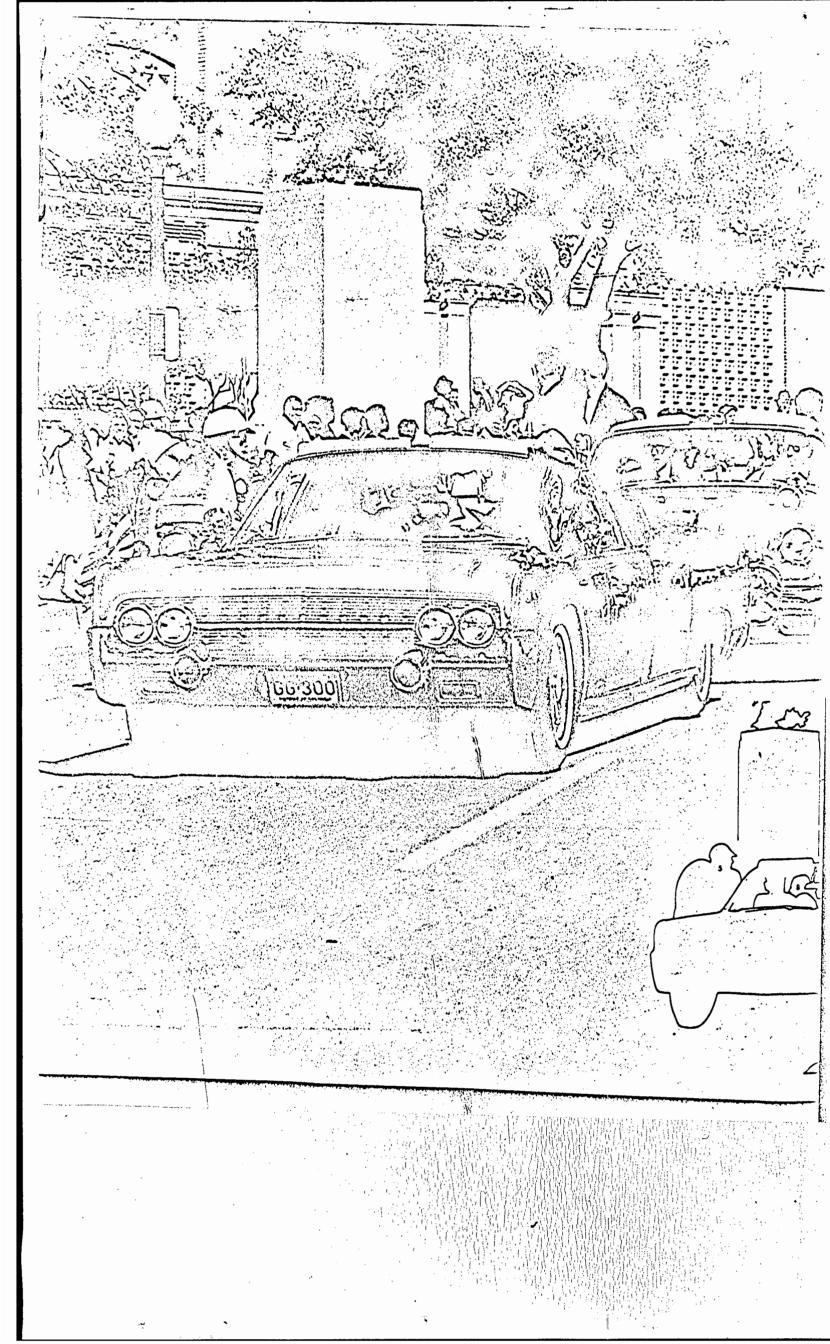
Figure 8

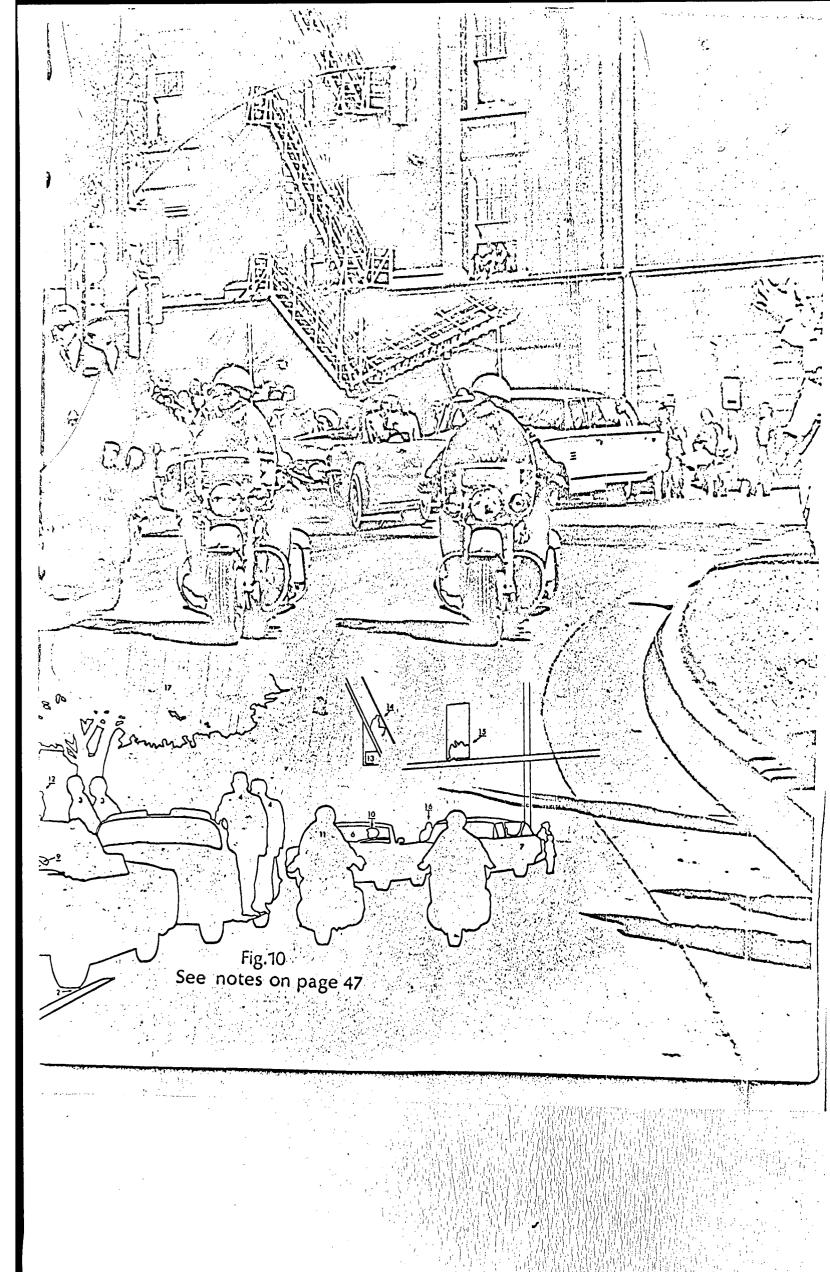
John F. Kennedy on Elm St. about the time of the first shot, Z 186 (Table 3, No. 101). The umbrella belonging to the "Umbrella Man" can be seen at the lower left of the Stemmons Freeway sign. Man =2 can be seen behind the wall to the left of that sign.



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.





# 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 (1 is omitted) and a number 1 to 15 from left to right. Locations on the chart are specified by these letter and number labels, indicated on the borders of the map.

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

3. 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 wars, 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 Fim 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 Marren Commission in their investigation. Successive frames were 1/10 second apart.

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

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

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

Altiques 2, 3	Person or Object	Location	Person or Object	Location	Person or Object	Location
Altigens 6 (at Z 255)			Kennedy behind "the"	D 10-11		E 8
Name					Nix 1, 2s	K 12
Babushke Lady" (who took		G 8	. to Z 207		Nix 28	
Second content of the motor of the motor of from the conjugate o					Osweld's alleged window	A 13
an entire movis of the motorcade from the opposite side from tet opposite side from tet opposite side from tet opposite side from tet opposite side from Zapruder)  Bell 3	"Babushka Lady" (who took	· F 8	z 133	C 11	-	
Dell   2   2   2   2   2   2   2   2   2			Z 161	D 11	parking area and railroad	B-E 4-5
Desite side from Zapruder)	motorcade from the op-		Z 189 (throat shot)		yard	
Deli 1		)	Z 226 (back shot)	and the second s	puff of smoke (shown in 9	ε 7
Detrace 1	Bell 1, 2	H 11	Z 238	ε 9		
Detamer 2	Bell 3	. Н 11	Z 255	. •	railroad yard and parking	B-E 4-5
Detrimer 3	Betzner 1	E 13	Z 285	• ,	ares	
Dond, 1 to 3	Betzner 2	C 13	Z 312 (head shot)	F 8 .		
Dond, 4 to 9   G 11		C 12	Z 313 (2nd head shot)		scale in feet	K 8-9
Drehm(s)	Bond. 1 to 3	G 13	. Z 346	· •	shots, sources of:	
December   F 9	Bond. 4 to 9	G 11	Z 400	G 6 ·	lst	ε 5
December			Z 433	. н 5	2nd	A 15
Duliet mark(s) on curb   J 3, H 6   Z 485   H 1   4th   A 15		D 13		н 3	3rd	A 11
Commerce St.			m 400	н 1	41h	A 15
Commerce St.   K 1-6	Delice mork(s) on only		_ ;			A 11
Compast directions	Commorce SI	¥ 1-6				
Connaily, Gov. J. B.,   E 9			Vain St.	J 1-15	· · ·	
Dalk shot (st Z 239)				<b>4</b> 1-15	Silvan	n 7
Dallas County Criminal   F-H 15		. ,		<b>\</b>		
Dallas County Criminal   F-H 15	Dack shot (at 2 200)					. •
Shot at Z 189   Shot at Z 18	Dallas County Culminal	F.U.15		n 5		1 0 8
Dallas County Records Bldg.   C-E 15		F-N 15			Stemmons Freeway Fryn	
Dalias County Sheriff's H 15 Man #3 E 7 face by a fragment of Office Man #4 E 7 a shot)  Dal-Tex Bldg. A 15 Man #5, source of 6th shot Dillard 1 C 13 at Z 313  Dorman, Mrs. A 11 Man #6, off map in Dal-Tex Bldg, source of 2nd shot Bldg, source of 2nd shot Window, from shich Warren Commission alleged Lee former Dallas County eff map, see K 15 Man #7 D 8 Oswald fired 3 shots  Courts Bldg. Man #8, source of 3rd shot A 11 Towner, J. 1 C 13  TSBD Z 312  grassy knoll G 4 to C 10 Man with Umbrella 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 H 2 material picked up by H 6 Ahraham Zapruder during the desire of the county winch we friends  Hudson and two friends  F 9 Morman F 9 which he took)		C.F. 15		F 7	Though (who was hit in the	к з
Office						
Dal-Tex Bldg.		н 13				
Dillard   C   13		A 15				A 10-13
Dorman, Mrs.   A 11						W 10-10
Bldg, source of 2nd shot   TSBD, 6th floor easternmost   A 13				v		
Elm St.	Dolman, Miss	~ 11				A 13
St. extension	F1= 5:	H 1 +0 D 15				~ 10
Former Dallas County   eff map, see K   15						**.
Garage bldg. mext to   A B-10   at Z 238 and 5th shot at   Towner, T. 1   C 13   TSBD   Z 312   Towner, T. 2   D 12				n a		
Garage bldg. mext to   A B-10   at Z 238 and 5th shot at   Towner, T. 1   C 13   TSBD   Z 312   Towner, T. 2   D 12	Courts Bldg	-pt 500 K 10				C 13
TSBD   Z 312   Towner, T. 2   D 12						
G 4 to C 10				•		
Hester(s) C 7 Martin 0 H 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 H 2 material picked up by H 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)		64 00 6 10		n a	Towner, 1. 2	0 11
Hester(s) C 7 Martin 1 G 13 Millis 5, 6 D 11 Hill, Jean F 9 Martin 2 C 12 Zapruder (location of D 7 Holland H 2 material picked up by H 6 Abraham Zapruder during Houston St. A-K 13-14 Walthers and others Hudson and two friends F 6 Moorman F 9 which he took)	grassy knozz	<b>4 10</b> C 10			"Helprolle" Man	n A
Hill, Jean .F 9 Martin 2 C 12 Zapruder (location of D 7 Holland H 2 material picked up by H 6 Abreham 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)	Moster(s)	C 7				
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Hudson and two friends F 6 Moorman F 9 which he took)				n o		
				F 0		
THE PARTY OF A TANKE OF THE PARTY OF THE PAR					ANTON ME FOOK)	
Hughes 3 K 12 Muchmore 2 F 11 Hughes 5 K 10			MACHMALA 9			

An excellent example of the many things that can be learned even from a single photograph, is provided by Figure 10. This photograph was taken by a professional Associated Press photographer. James Altgens (Table 3, No. 57). This photograph was used by the Warren Commission as Yarborough Exhibit A, Vol. XXI, pages 701-702. However, the Warren Commission staff did not point out very much of the pertinent information contained in the photograph. President Kennedy (#1) appears in the limousine partially hidden by the rear view mirror. Three shots have already struck him and Governor Connally.

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 clapsed following the first shot, it is not surprising that very few people in the picture show signs of realizing that anything has happened. Note the smiling face's and applauding hands along the curbs.

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

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.

is lying on the floor next to her with Agent Youngblood 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.

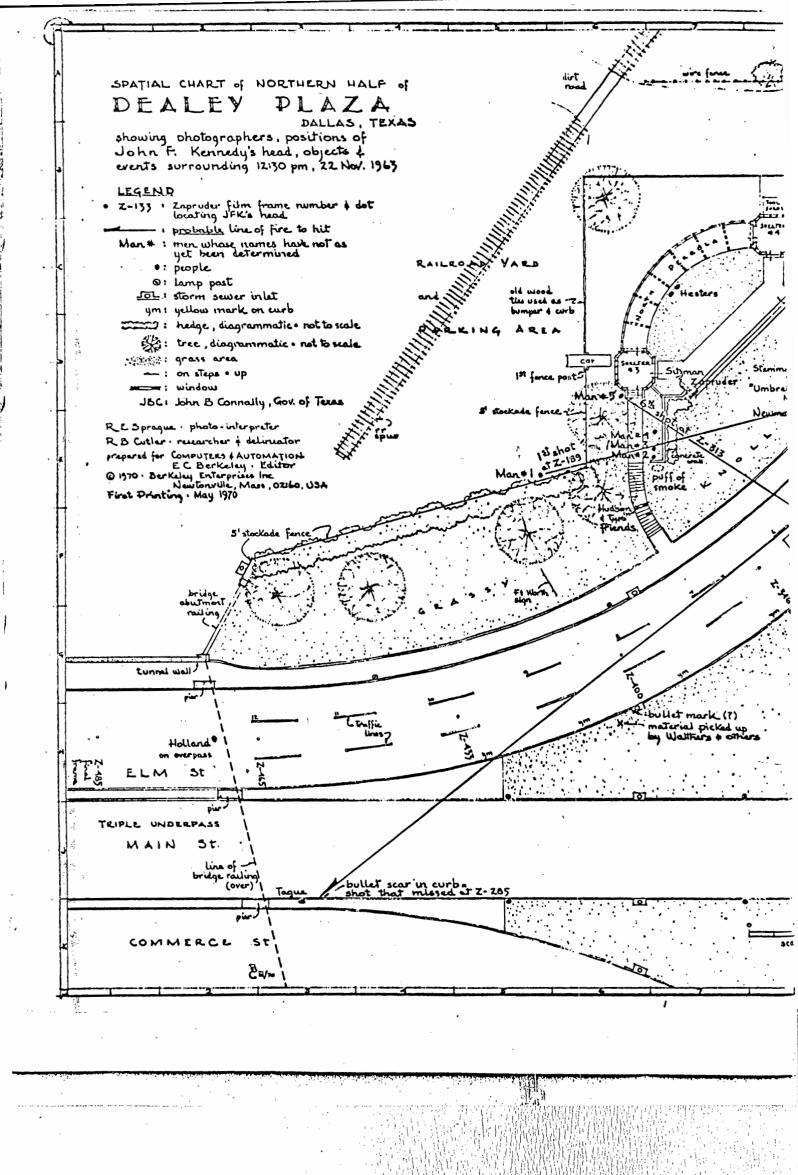
One of the most significant parts of the Altgens photo is the part showing the Dal Tex building in the background and an open, darkened window on the second floor (#13). Harold Weisberg, one of the researchers, first called attention to this window and the possibility that one or more shots might have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

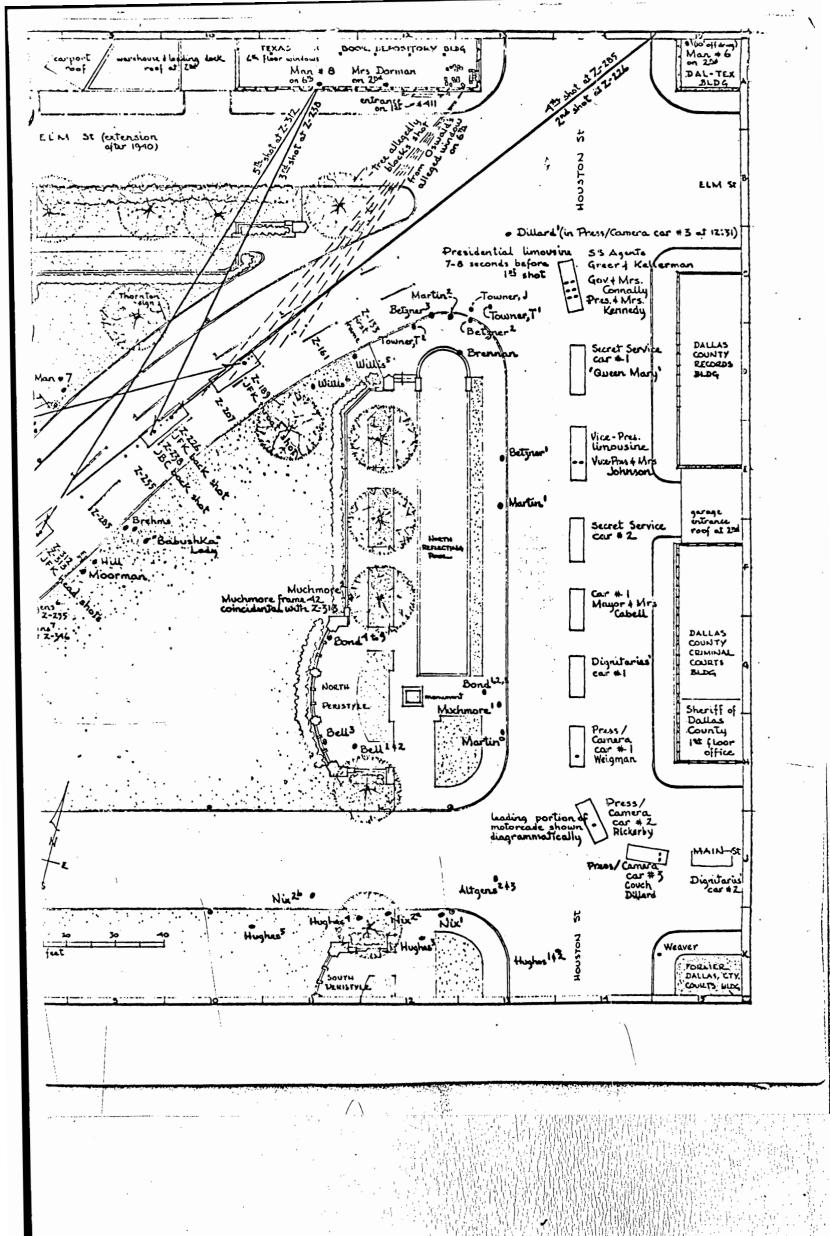
A man (#14) appears in this photo, fallen back on the fire escape directly above the open window. Just five seconds earlier in the Hughes film sequence, he was sitting in a normal position. This man has not been found to be interviewed. The group of three people (#15) in the window to the south of him 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).

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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", the is holding it closed. This is when the Kennedy car rounds the corner from Houston St. into Elm St. Next he is holding it open and low over his head; the time is shortly before the first shot (see Fig. 9). Note that the weather is sunny, "slight breezes and gusts"; it is a sunny November day in Dallas; and gusts"; it is a sunny November day in Dallas; the time is noon; the temperature is 68° Fahrenheit, and there is no ordinary reason at all for holding an open black 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.

1. Visual coordination as well as radio coordination of the firing teams was necessary. because of the separation of the team mem bers 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 "man with the

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

The Warren Commission did not see the "umbrella 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.

SOME IMPORTANT PHOTOGRAPHS ACQUIRED BY THE FBI AND UNAVAILABLE

	Liet Type*	Name of Photographer	Roll and Sequence No.	Subject	Time
51	PB	Mary Moorman	<b>1</b>	TSBD sixth floor window, before Kennedy rounded the corner	10 to 15 sec. before shets
93	PB	Willie	13	Man arrested out- side of the Dal- Tex Building	within 20 min. after the shots
375	78	Feley		TSIM sixth floor window, with two men in the win- dow, neither of them Oswald	sbout 10 em, Nov. 22, 1963
376	MB .	Babushka Lady	Mr. P to Smooth	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	PB	James Powell. Army Intelli- gence, Dallas		TSBO	about the time of the shots
494	PB	Similis	1	TSBD, showing the sixth floor win-dow empty except for box	between first and lest shots
495	PB	Similio	2	Kennedy further down on Elm St.	about 22 sec. after the shots
•p :	still	photograph;	( = movie;	B = black and white	1

## The "Babushka Lady's" Movie \_

As mentioned above, the pictures show other persons also taking pictures. One of these sons has been called the "Babushka lady" One of these other perbecause 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 <u>Detroit</u> 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 un-

available 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:

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same Las

- About ten men are shown being arrested.
   At lenst two other rifles are shown being found before Oswald's rifle was found.
   "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. les researcher.
- 4. 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.

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

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

  (Tast continued on page 56)

(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

apruder Frame Numbers Shown on Spatial Chart	<b>:</b>	11.2	7 400 7 411 7 461		
otorcade Location: Before Houston St.	JFK on Houston St.	JFK on Elm St.		JFK Past Overpass Camera Cars and Buses on Elm St.	Other Cars Past Overpass
ime Scale: Minutes nots: FK behind "the" oak	Seconds	Seconds		Seconds	Minutes
tree as seen from "the Oswald" window indow empty					·
(Hughes 654 Dillord 1):		3.7 MC. 3 SEC.			
hotographers and Their Photographs:					
Zapruder		<del></del>	+		
Nix	Nix 1	Nix 2A 296 425		Nix 2B	
Muchmore	Muchmore 1	Muchmore 2 280 322		•	
Hughes		es 1 Hughes 2 7 H 654		Rughes 3	Hughes 4
Mertin Mer	tin 0   M 84	Martin 1 M 85 M 138	Marti	in 2	Mertin 3
Bell '		Bell 1			Bell 2
Altgens	Altgens 1-5	Altgens 1-6	Altgens 1	-7	. •
Moorman	Moorma	1 Moorman 2			,
Willis	Willis 3	Willis 4 Willis 5 202		Willis 6 Willis 7	
Weigman		Weig	man (With	Breaks)	
Rickerby				Rickerby i & 2	
Couch				Couch 1 2 3 4 5 6 7	
Bond	Bond				ond 6 7 8 9
Dorman :		Dorman			
Dillard		Dillerd 1	-		
Weever		Weaver			

Table 3
MAIN LIST OF OVER 500 PHOTOGRAPHERS

	Pho No.	to Type	Photographer Name & No.	Seq No.	Photo Shows	Pho No.	to Type	Photographer Name G No.	Seq. No.	Photo Shows
	1 2 3	HC HC	Zapruder,1	1	JFK on Elm-Houston St. to Overpass JFK on Houston St. before shots JFK on Elm St. just before, during & after		PB P8	Aligens		TSBD from same position 5:19 PM TSBD from center of plaza 5:07 PM Clock shows
	4	МС		28	head shot Grassy knoll and cars on Elm just after	70 71	PB PB			TSBD from center of plaza TSBD from center of plaza
•	5	MC	Muchmore, 3	1	head shot JFK on Houston St.	72 73	PB PB	. #		TSBD from center of plaza TSBD from center of plaza
	6	HC	4	2	JFK on Elm just before, during & after	74	PB	•	3-12	TSIN) from center of plaze
	7	MC	Hughes, 4	0	head shot  JFK on Houston from Main St. 2/3 of way to	75	PB	- ·	4-10	Triple overpass from same position es . Altgens 1-6
1	8	мС		1	Elm JFK on Houston & Elm & TSBD 6th floor win-	76 77	PB PB			Triple overpass from same position Triple overpass from same position
- 1			_		dow empty	70	PB	•		TSBU 5:16 PM from same position as
	9	MC		2	Camera cars on Houston St Man on Dal Tex fire escape, sitting	79	PB	•	4-17	Altgens 1-6 Clock shows TSBD 5:16 PM from same position as
:	10 11	MC MC	-	3 4	Grassy knoll after shots Grassy knoll after shots	00	PB		4-18	Altgens 1-6 Clock shors TSBD 5:16 PM from same position as
,	12	MC	<b>9</b>	5	County Courts Bidg., Dal Tex & Main &			M4114- 11		Altgens 1-6 Clock shows
,	13	MC	•	6	llouston Parking Lot	01 02	PC PC	A11110'11	1 2	JFK on Main St. JFK on Houston St.
	14	MC		7	Plaza looking south from arcade	03	PC	*	3	JFK on Houston St.
	15 16	MC	**	9	TSDD Bldg top	84 85	PC PC		4 5	JFK in front of TSBD JFK after first shot
à.	17	MC			TSDD Doorway G Dal Tex  2JFK on Houston St. (from DCA Film)	86	PC	•	6	Elm St. & grassy knoll after shots
1	10 19	MC MC	Mertin,5		"JFK on Houston St. (from DCA Film)  JFK in front of TSBD Bldg.	87 00	PC PC		7 B	Elm St. & grassy knoll after shots TSBD Ocorway
	20	NC	*	2A	Grassy knoll & Elm St. after shots	89	PČ	•	ğ	Houston St. looking N. from Elm. TSBO G
13	21 22	MC MC		_	Grassy knoll & Elm St. after shots · Parking Lot	90	PC		10	Dal Tex TSBD front - Doorway & 5 eastern windows
	23 24	AIC AIC	**	4	Cop on Motorcycle with negro			₩		- Arrest and possible rifle
	25	MC	•		B. Lovelady in front of TSBD C. Brehm Interviewed on Elm St.	91 92	PC PC		11 12	Houston St. looking north from Elm St. TSBD (all of it) from Houston & Main
	26 27	MC		7	View North on Houston from Elm	93	PC	-	13	Man arrested outside Del Tex Bldg.
	20	MC MC	-	8 <b>9</b>	View North on Houston & TSBO doorway Front of TSBO - Cops with shotguns	94 95	PC PC		14 15	White station wagon on Elm about 12:45 Scenes around TSBD
	29	MC	•	10	Del Tex Bldg - Cop with shotgum - Police	96	PC	*	16.	Scenes around TSBO
	30	MC	Mentesama, 6	0	Cars L. Florer under arrest at Houston & Elm	97 90	PC PC		17 18	Scenes around TSBD Scenes around TSBD
	31	HC	•	1	Top of TSBD - 2 cops on 7th floor fire es-	99	PB	Betzner, 12	1	JFK on Houston
	32	МС	•	2	Houston St. between TSBD and Del Tex -	100 101	PB PB		2 3	JFK in front of TSBD  JFK on Elm about time of first shot
	33	NC	Bell.7	,	Rifle being examined	102	PB	Bothun, 13	1	JFK near Love Field
	34		De11.0	2	JFK on Houston St. JFK in front of TSBD	103 104			2 3	JFK on Main approaching Houston Lead motorcycles approaching Houston
	35 36	MC	*	3	JFK approaching triple overpass on Elm St.	105			4	JFK rounding corner Main G Houston
	37	NC.	-	5	Grassy knoll area just after shots Grassy knoll area after shots	106		AP Photog-	5 1	Arcade after shots Group of photos taken outside Parkland
	38 39	MC		6	Center of Plaza after shots Grassy knoll area	108	DD	rapher,14	,	Hospital
	40	MC		ò	Plaza from Bldg. on south later in day	108	ro	AP Photog- rapher, 15	1	Copy of Moorman 2 - Clearer than published
	41 42	MC PC	Bond.8	9	Plaza from Bldg, on south later in day Motorcycles rounding Houston & Main	109	PB	AP Photog- rapher,16	1	Officers & newsmen inside TSBD at 6th floor window
		PC		2	JFK rounding Houston G Main	110	PB	AP Photog-	1	Group of officials and Pickup truck on
	44 45	PC PC	•	3 4	JFK on Houston Grassy knoll G Elm St. after shots	.,	`	rapher, 17		Stemmons Freeway - TSBO in background - Taken from moving car - 1:04 PM. Nov. 22
	46 47	PC CC	*	5 6	Grassy kholl & Elm St. after shots	111		:	2	Triple overpass from same car on west
4	48	PC	*	7	Grassy knoll G Elm St. after shots Grassy knoll after shots	112	PB		3	Closeup of overpass - 1:04 PM from car approaching
,	49 50	PC	*		Gressy knoll after shots Grassy knoll after shots	113	PB	•	4	TSBD, Dal Tex. County Records Bldg. from
	51	PB	M. Moorman,		Motorcycle cop rounding corner Elm G Hous-				•	moving car on Maln St. near overpass - 1:04 PM
	52	РВ	• •	. 2	ton Grassy knoll & JFK at time of head shot	114	PB	*	5	TSDD, Dal Tex from car on Main St 1:04 PM Clock shows
	53	PB	Altgems, 10	1-2	Lead Motorcycles in Motorcade on Main St.	115	PB	•	6	Grassy knoll & Triple overpass from car
	54 <b>5</b> 5	P8 <b>P</b> 8			JFK approaching Houston St. on Main JFK turning corner at Houston G Main	- 116	PB		7.	on Main St. TSBD, Dai Tex from car on Main - 1:04 PM
,	56 57	PB PB	*		JFK halfway down Houston toward Elm					- View of activity around corner of Elm
				1-0	JFK after first three shots & before fatal shot. Open window, fire escape, Dal Tex			D. Miller,18	3	G Houston JFK early in motorcode
	<b>58</b>	PB	*	1-7	JFK approaching triple overpass. C. Hill on car	117	'pa		2 3	JFK early in motorcade JFK on Stemmons Freeway - Possible man
		PB	99		Arcade & knoll from South of Elm after shots	•••			•	with rifle in background - Corham sign shows JFK's-C. Hill's foot sticking
	60 61		-		TSBD 5:06 PM November 22 TSBD 5:06 PM Clock shows	118	PB	Rickerby, 19	1	out of car (Life) Arcade G West Cupole after shots
		PB PB	# . #		TSBD 5:06 PM Clock shows TSBD from same position as Altgens 1-6			*		(3 people)
	64	PB		2-14	TSBD from same position		PB		2	Arcade & Photographers taking pietures (Cam 2)
	65 66	rb			TSBD from same position 5:16 PM Clock shows TSBD from same position 5:19 PM Clock shows	120	PB	Dillerd.20	1	TSRD 6th floor window from Cam 3 (Dallas Morning N)
	67	PB			TSBD from same position 5:19 PM	121	PB	<b>*</b>	2	TSBD 6th floor window from Cam 3
										$\omega$

	to . Type	Photogra Namo G			Photo Shows			Photographer Namo G No.		Photo Shows
122	PB	Dillard,	20 3	3 (	Overpass & camera cors on Elm .	107	PB	Wm. Allen, 23	3-6	Larry Florer in Sheriff's office
123			4	4 1	:45 PM - Hand pointing to bullet mark	100				Larry Florer in Sheriff's office
124	110	J. Laird	,21 1	1 (	Dollos Morning News) Scene at Parkland	109 190		÷.		Larry Florer in Sheriff's office
125	PB		2	2 1	1 contact prints of TSBO late on November	191				Larry Florer in Sheriff's office Larry Florer in Sheriff's office
٠. ـ.		_			22	192				TSIID from a distance
126 127					I contact prints of Parkland Hospital	193		:		TSBD from closeup
128		•			contact prints at Police station  contact prints of scenes around Park-	194 195				Two cops in TSBO doorway Three "tromps" from R.R. yards in front
			•		land Hospital	• , .	••		0-11	of TSDD
129	PB	J. Beers	.22 1	1 (	Dallas Morning News) Lt. Montgomory car-	196		:		Three "tramps" on Houston St.
130	PB		,	2 (	rying large paper bag	197	88	•	3-16	Three "tramps" being led towards she- riff's office
	ro	•			.t. Montgomery with bag .t. Johnson carrying Or. Pepper bottle	198	83		4-2	Bullet mark on curb
	60		4	4 E	loxes inside TSIN 6th floor window	199		•		Bullet mark on curb
	PB		5		i.E. Barnett & J.M. Smith (cops)	200	PB	•	4-4	Lt. Montgomery with bag & Lt. Johnson
	PB	**	_		arry Florer on Houston St. Arca where Oswald's rifle found	201	PB	<b>64</b>	4-5	with bottle Lt. Montgomery with bag & Lt. Johnson
136		**		B #	rea where Oswald's rifle found			`.		with bottle
137	BB	*	9	9 1	<pre>'wo men in police car - one negro, one Cuban</pre>	202 203		÷		Lt. Johnson with bottle & lunch sack Lt. Johnson with bottle & lunch sack
130	PB	•	10	9 5	Some men being led from TSBD by cops	204				Boxes inside 6th floor window
139	PB				Three tramps being led away from TSBD	205			4-15	Boxes inside 6th floor window
140	PB				Three tramps being led nway from TSBO	206		:		Boxes inside 6th floor window
141	₽B		13	,	Rifle being carried away from TSBO by Lt.  Day	207 200		•		View down Elm from 6th floor window View down Elm from 6th floor window
142	២០	. •	14	4 6	Rifle being carried away from TSBD by Lt.	209				View clown Elm from 6th figor window
140		<b>(4</b>			Dny	210		* :		Rear bumper of car
143	PB	•	15	5 1	Rifle being carried away from TSBD by Lt	211				Cop in front of TSBD & group
144	PB	<b>-</b> .	16	6 1	Two ladles 6 boy leaving TSBD	213		•		Group in front of TSBD Cops in TSBD doorway
145	PB	-			licw from 6th floor window - Nov. 22 PM	214				Police cars and crowd behind TSDD (north)
	61	<del></del>	10		oswald arrival at Police Station	215				Police cars and crowd behind TSOD (north)
140	PB PB	₩			Cop with shotgun looking up at TSBD Group around TSBD	216 217				Police cars and crowd behind TSBD (north) Negro G Latin man under arrest on Elm St.
	PB				old white haired man led away from TSBD	210	_	•		Negro G Latin man climbing in police car
150	PB	•	22		Scene around & inside TSBD - view of east	219			5-10	Negro G Latin man in police car
151	DD.		22	2 -	side of Houston	220				Lt. Day carrying rifle out of TSBD
	89 89	99 .	24		ISBN from point on Houston  boxes stacked up at TSBD 6th floor win-	221	PB		3-12	Lt. Day carrying rifle toward Houston G Elm
					dow	222	PB	•	5-13	Lt. Day carrying rifle toward Houston &
	PB				Scene around & inside TSBD	202				Elm
	PB PB		26 27		Scene around & inside TSBD Scene around & inside TSBD	223	РВ	• •	5-14	Lt. Day carrying rifle approaching cor- ner
156					Scene around & Inside TSBD	224	PB	. ,	5-15	Lt. Day carrying rifle crossing Houston
	PB	~	29	9 5	Scene around & inside TSBD	225				Lt. Day carrying rifle crossing Houston
158 159	PB				Scene around & inside TSBD	226	PB	•	5-17	Lt. Day carrying rifle in front of Del Tex
	PB	-	32		Scene around & inside TSBD Scene around & inside TSBD	227	PB	•	5-18	Lt. Day carrying rifle in front of Dal .
161				3 5	Scene around & Inside TSBD	•••		_		Tex
162	PB	Wm. Alle	a. 23 l-	-3 (	Dellas Times Herald) 12:39 PM Walthers and	228 229	PB PB			Two women and man leaving a house Two women and man getting in police car
•					second official picking up something from ground	7	10		0-4	- Another photographer shows
163	PB	•	1-	-4 1	2:40 PM (Hertz clock shows) Walthers and	230	PB	•	6-5	Two women and man getting in police car
					group near spot where something picked	231	PB		4.4	- Another photographer shows Two women and man in police car - An-
164	PB	•	1-	-5 1	up - South of Elm near inlet 2:41 PM Grassy knoll from center of piaze	231	ro		.0-0	other photographer shows
165	PB	•			roup near foot of steps on Elm - TSBD G	232	PB	-	6-7	Two women and man arriving at police
					Dal Tex in background - C. Brehm being	222	-			station
166	РВ	· 🖚	1-	.7 C	interviewed 12:42 PM roup near foot of steps on Elm - Grassy	233	РВ	-	0-0	Two women and man arriving at police station
•••			•		knoll in background - C. Brehm being	234	PB	-	6-9	Two women and man in police waiting room
·					interviewed 12:42 PM	235	PB	J.McAulay,24	1	(Ft. Worth Star Telegram) Man arrested
167	<b>PB</b>	-	1-	-e 0	roup near foot of steps on Elm - Center of plaza in background 12:42 PM	236	pπ	<b>"•</b>	2	in Ft. Worth near police car Man near car in Ft. Worth - Nov. 22 PM
168	PB	` •	1-1	15 (	op with shotgun - Dal Tex in background -	237			3	Man being led away from car
		_			Elm & Houston 12:43 PM	238		H.Cabluck, 25		(Ft. Worth Star Telegram) Spot where
169	PB		1-1	16 (	op with shotgun - View east on Elm from Houston 12:44 PM	239	pn		2	bullet hit grass Spot where bullet hit grass
170	PB		1-1	7 (	around 12:45 PM) TSBD from south of Elm on	240			3	Spot where builet hit grass
					llouston .	241	PB		4	Spot where bullet hit grass
171	PB	•	1-1	18 1	SBD from south of Elm on Houston (closer	242			5	Parkland Hospital - Many people in front
172	PB		1-1	9 (	view) Crowd held back - Corner Elm & Houston out-	243 244			6	Parkland Hospital - Many people in Cront Parkland Hospital - Many people in Cront
•			4		side County Records Bldg.	245		J.Cabluck, 26	1	(Ft. Worth Star Telegram) Dealey Plaza
173	PB		1-2	20 [	Oal Tex, cops with shotguns from corner	1246	00	*	٥.	from Helicopter late afternoon - Nov.22
174	PB	. • 3	2-	-3 (	Elm & Houston Cops & crowds in front of Dal Tex fire	246	PB		2.	Helicopter view of Dealey Plaza from east of Dal Tex
		, h			escape - Mentesana in photo	247	PB	•	3	Helicopter view of Dealey Plaza from west
175	PB				op with shotgun in front of Dal Tex	240	p.o.		4	of overpass
176 177					oth floor window - Man measuring cartons oth floor window - Man measuring cartons	240 249			4 5	Parkiand Hospital, JFK car Parkland Hospital, other cars
178		,			oth floor window - Man measuring cartons	250	PB		ě	View of Railroad tracks from TSBO
179	PB	. 4			Cops checking cars lined up to leave park-	251	PB	G. Smith, 27	1	
180	PR		2_1	14	ing lot 12:54 PM 12:55 PM Sheriff waving out of 6th floor					R.R. tracks in front of TSBD under arrest
	. 5				window next to "the" window	252	PB	•	2	Three men from R.R. trecks in front TS80
181		**			"Assassins" window	252				under arrest
102	PB	••	2-1	10	12:55 PM Cops with shotgums - Del Tex im		PB PB		3	Lt. Montgomery with bag Lt. Montgomery with bag
	PB	•			mrry Floror boing frisked	255	PB	*	5	Lt. Johnson with sack and bottle
	PB				nrry Florer close up		PB PB	:	6	Lt. Johnson with sack and bottle NW corner oth floor TSND inside
	PB PB				"Assassins" window 1:00 PM Larry Florer in Sheriff's office	258	PB PB	W.Davis, 28	i	(Ft. Worth Star Telegram) Photographers
	,		-		= -					in camera car CAM 2 early motorcade

	Pho No.	to Type	Photographe Name & No.	r Seq. No.	Photo Shows			Photographor Name G No.	Seq. No.	Photo Shows
	259	PB	Weigman, 29	1	Scene on Elm, grassy knoll, TSBD doorway	318	PB	Murray, 30	2-24	Cops beside Dal Tex Bldg Houston St.
	260 261	PB	Hurray, 30	<b>4</b> 2	from CAM 1 Newmans on ground - Cong 1 & 2 on Elm St.	319	PB	# (16:	2-25	group in front of Dal Tex - Closeup 1:09
	262	PB	Harrey, 00		Blank Blank		PB		2-26	own to buy film) BorBO place downtown 1:24
	263	PB	•	1-3	Elm & Houston & Dal Tex from in front of TSDD 12:33		68 83			BarBO place downtown 1:24 BarBO place downtown 1:24
	264		**	1-4	•	323	PB	•	2-29	Larry Florer in Sheriff's office 1:30
	265 266	טיו פח	•		Parking Lot - North section 12:34 Parking Lot - South section 12:34	324 325				Group outside Dal Tex 12:56
	267	PB	*		Elm St. Ext From west end looking enst 12:34	326	PB	•		Front of TSGD G Elm St. Ext. looking west 12:56
	268		•		Center of Plaza from knoll 12:35		PB			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			View south on Houston from Elm 12:57 In Sheriff's office 1:06
	270	PB	•	1-10	Closeup of couple on north side Elm St TSDD in background 12:36	330 331	PB PB		3-7	In Sheriff's office 1:06 In Sheriff's office 1:06
	271	PB	#	. 1-11	Long shot facing overpass from steps on	332	PB	*	3-9	In Sheriff's office 1:06
	272		*	1-12	Elm 12:37 Arcade G knoll from center of Plaza 12:38	333	PU		3-10	Mary Moorman using phone in Sheriff's office 1:06
	273	PB	*	1-13	Police examine spot on ground - Hertz clock shows the time 12:39		PB PB			View across Plaza from Houston 1:07 Bar on Houston St South of Main 1:12
	274	PB	•	1-14	Same as 13 - South Elm near sewer outlet	336	PB		3-13	Bar on Houston St South of Main 1:12
	275	P8	•	1-15	- Walthers lighting cigarette 12:39 Walthers picking up something from	337	PB	•	3-14	Cob driver downtown where Murray bought film 1:23
	276	ÞΩ			ground 12:39	338 339	PB 84			In Sheriff's office 1:30
					Walthers holding something in his hand 12:39	340	PB			Overpass from Elm & Houston Overpass from Elm & Houston
	277	PB	•	1-17	Another official touching spot on ground 12:40		PB PB			Overpass from Elm & Houston TSBD West end - Top floor
	278	PB	•	1-18	Police standing around spot on ground	343	PB		4-8	TSBD West end - All floors
	279	PB	. •	1-19	12:40 Police picking up other objects from two	344 345	PB PB			Houston G Elm activity Houston G Elm activity
	200	рR			spots - Clock shows the time 12:40 TSBD Plaza & knoll from Commerce St	346 347	Bq pp		4-11	Houston G Elm activity Houston G Elm activity
					Front doorway guarded by two cops 12:41	-	PB	•		Houston G Elm activity - Possible ar-
	201 202			1-21	TSBD Plaza & knoll from Commerce St.12:41 Front door of TSBD from south of Elm 12:42	349	PB		4-14	rest TSBD East end - Top floors
	203 204				Front door of TSBD from south of Elm 12:42	350 351	PB PB		4-15	TSBD East end - Top floors
	205	PB			Front door of TSBD - Closeup 12:42 Front door of TSBD - Closeup 12:43	352	PB	*	1-17	TSBD East end - Top floors TSBD East end - Top floors - Clock shows
• -	286	PB	•	1-26	Negro boy in police cer - Front of TSBD 12:43		PB PB	-		TSBD East end - Top floors TSBD East end - Top floors
	207	P8	•	1-27	Front door TSBD - Closeup - Walthers in		PB PB		4-20	TSBD East end - Top floors TSBD East end - Top floors
	288	PB		1-28	doorway 12:43 View east on Elm St. from Houston G Elm	357	T	Atkins, 31	1	Newmans on the ground
	289	PB	•	1-29	Dal Tex & County Records Bldg. 12:43 County Records Bldg NW Corner 12:43	-	T PB	Cancellare,32	2	Newmans on the ground Newmans on ground - Weigman. Craven.
	290	PB	•		View north on Houston from south side of	360			2	Altgens*5 Nowmans on ground - Closeup
	291		•		Elm St. 12:44 TSBD from Houston G Main 12:44	361	PB	. 35	. 3	Parking lot
	292	PB	•	1-32	TSBD front G doorway from Houston G Elm 12:45	362 363				Plaza & Elm St. from knoll Crowd on north side of Elm from knoll
	293	PB	•	1-33	TSOD front G doorway from Houston G Elm 12:45	364	.PB	٠ ,	6	- Babushka Lady appears Crowd on Overpass watching JFK going
	294				TSBD doorway - Crowd in front 12:45					out Stemmons Freeway
	295	PB		1-35	Cop with shotgun - Dal Tex Bldg. in back- ground 12:45	365	РВ	UPI, 33	. 1	Lt. Montgomery carrying paper bag out of TSBD
		PB PO	- V		View north on Houston from Elm St. 12:45 View of overpass from Elm 12:40		PB PB	UPI, 34	3	Officers in front of TSBD Copy of Wm. Allen 1-3 with caption
		PB			Crowd on Elm C eastern Cupola from south			•	•	reading: "Dallas police search ground
	299	PB	• '	2-5	on Elm 12:40 TSBD front door - Reporter tape recording					for bullet bolieved to have lodged in the earth"
-	300	PB	**	1	interview with Brennan 12:42 TSBD front door 12:42	368	PB	UPI, 35	4	Negro girl crying outside Parkland
	301	PB	* ;	2-7	TSBD front door 12:42	369	PB	-	5	Negro girl crying outside Parkland
	302	ro		•	Walthers being interviewed in front of TSBD 12:45		PB	Stoughton, 36		Hospital Not sure he took snything Com 2
	303	PB	• 1	2-9	Walthers being interviewed in front of TSBD 12:45	371	PB	Burrows, 37	1	Camera cars on Houston St. from Cam 2 (AP)
	304	PB	•	2-10	Policeman on 6th floor yelling out win-	372 373	PB MC	Pormen, 38	2	Camera cars on Houston St. from Cam 2 JFK on Houston - Glimpses on Eim before
. :	305	PB	•	2-11	dow 6 pointing to 6th floor window 12:55 Policeman on 6th floor yelling out win-			Dolman, oo	,	shots
	306	РВ	•	2-12	dow 6 pointing to 6th floor window 12:55 Three ladies on top floor fire escape	374 375	MC PC	Unldentified,	39 1	More glimpses on Houston after shots TSI3D on AM of Nov. 22 - 6th floor win-
	307	DR			landing of Dal Tex 12:56 Ceps with shotguns in front of Oal Tex	376	МС	Photog.(Foley Mrs. Beck.40	")	dow Not sure film exists - Taken during
			1		12:56					shots
	308	PB	•	2-14	Cops with shotguns in front of Dal Tex 12:56	377 378	PB PB	Weaver, 41 Powell, 42	1	TSID 6th floor window before first shot Cannot find him
٠,	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 G Parking lot
	310	РВ		2-16	Cops with shotguns in front of Dal Tex	380	PC	NecCammon, 44	1	Group of police interrogating an old
	311	РВ	<b>9</b> : 1	2-17	12:56 Larry Florer being interviewed in Sheriff	381	PC	•	2	negro outside TSBD  Group of police interrogating an old
	312	PB	, <b>a</b>		office 1:06 Larry Florer being interviewed in Sheriff's	382	PC		3	negro outside TSBD Scene in Dealey Plaza
	313		; ·		office 1:06	303	PC		4	Scene in Dealey Plaza
:	314	PB	· · · · · · · · · · · · · · · · · · ·	2-20	Four men in Sheriff's office 1:06 Larry Florer 1:06	384 385		• ,	5 6	Scene at Tippitt shooting Scene at Tippitt shooting
		PD	1. P		Larry Florer 1:06 Larry Florer 1:06	386	PC	<i>i</i> •	7	Oswald in Texas Theatre just before arrest
	317				Cops beside Dal Tex Bldg Houston St.	387	PC.	•	8	Oswald in Texas Theatre just after
					side 1:08					4rrest

	oto Type	elPhotographer Name & No.		Photo Shows	Pho No.			tographer me G No.	Seq.	Photo Shows
300	PB	Jackson, 45	1	(Times Herald) Photo of cars on Houston '	435 436		M.	Couch, 49	4	Cop with revolver drawn - South of Elm
309	T	A.J.L'Hoste,4	6 l	Station WFAA-TV (ABC) Photographer - Cop carrying shotgun toward TSBD	450	•			3	Brehm, Babushka Lody, Summers, Hill.  Moorman, Tague South of Elm - Sweeping view to overpass
390	T	. •	2	Decker. Brennan, Cop with shotgan outside TSBD doorway	437	T		•	6	Photographers on knoll - Newmans on ground
391 392	T T	*	3	TSND doorway near same time as Willis 10 6th floor window from underneath	438	T		• .	7	Haygood trying to jump cycle over curb north of Elm - Weigman G Cancellare
393 394		•	5	Larry Florer led toward Houston & Elm Decker being interviewed in front of TSBO	439	T	1.	•. ·	8	running to catch GAM I Crowd on North side of Elm - Taken from
395	۲	. •	7	Four cops with shotguns - Dai Tex in background	440		1		9	arcade Crow1 on North side of Elm - Taken from
396	T	•	8	Larry Florer being led down Houston St 3 other photographers show up	441	T	•	-	10	Houston & Elm Crowd on North side of Elm - Taken from
397	_		9	Larry Florer going into garage entrance of Sheriff's Bldg.			:			car driving on Elm (All of above are taken prior to 12:35 PM - Nov. 22)
398 <b>399</b>	_	:		Two cops leading negro witness into TSOO Possibly two men placed in police car in	442			<b>.</b> -	_	TS(D) 6th floor window inside - Cops looking out
400 401		•	12 13	Mexican & negro led to police car on Elm	443	Τ.	'	•	12	TSBD from center of Plaza - Zooms in on 6th floor window - Pans down to knoll - Then to corner of Houston G Elm G
402	T	•	14	St. Same two being placed in car - Another	`	_		_		back to overpass - Executive train moving on overpass
403	T	T. Alyes, 47	1	Houston & Main - crowd moving toward	444 <b>4</b> 45	-		<del></del>		Arcade with several people in it WFAA Commentator shows rifle G telescopis sight similar to Oswalds lying in
404			2	knoll Scene outside TSBD	446			<u>.</u>		Plaza grass - Demonstrates bolt action Center of Plaza from knoll
405 406	T	<u>.</u> .	3	Scene outside TSIO Scene outside TSIO	447	T		•	16	quences 11 to 16 above were taken be-
407 408 409	T		5 6 7	Scene outside TSBD Police scarching through 6th floor Police looking out 6th floor on Houston	448	T	D.	Cook, 50	1	tween 3 and 4 PM - Nov. 22) (KTVT-Channel 1) Fort Worth) JFK on Maia and rounding corner Houston G Main -
410 411	_	•	8 <b>9</b>	St. Cop sticks head out toward Elm St.	449	T		• .	2	Taken from in front of Sheriff's office Cop with drawn revolver G crowd on Elm
412				Arch showing lunch sack & Dr. Pepper bottle Rifle on 6th floor of TSBD - In hiding	450 451			<b></b>	3	less than two minutes efter fetal shot Activity in parking lot Looking east on Elm St. Ext. toward TSBD
413				place - Sheriffs & police examine spot	452 453			<del>**</del>	5	In front of TSBD Inside TSBD - Lower floor
414			_	Closeup of rifle posed for photo - Sight visible	454	T			7	Inside TSBD - Sixth floor
415				Policeman holds rifle up - Second coppoints at bolt Group near boxes where rifle found -	455 456	T			9	Arrest C possible rifle (seme as Willis 10) Larry Florer arrest
416	_			Newsmen taking notes Lt. Day dusting live shell for finger-	457 458	T		<b></b> `		Scene of Plaza
417	_			prints. Bullet visible Sheriffs talking on 6th floor	459			•	12	
418		R.Reiland, 48		(WFAA-TV ABC) Frame Bldg. in Oak Cliff - Where assassin thought to be - Men	460 461		T.	Craven, 51	_	(CBS) From CAM 1 Houston St. before the shots Knoll after shots - Craven jumped out of
419	7	9	2	sneaking upon it - Could be library or temple 'Two police cars speeding along residen-	462			<b></b>		CAM 1 Closeup of Newmans
***	•		-	tial street in Oak Cliff - Police go into old frame building	463	Ť,		<b>~</b>	4	Arcade (2, 3, 4 above were taken within 2 minutes after fatal shot)
420	T	•	3	Cop holding up light grey jacket ~ Near parking lot	464 · 46 <b>5</b>	Too		nderwood,		
421	T	•	4	Men in bhirt sleeves talking near used ; car lot		T				Cops with shotguns - Dal Tex in back- ground
422	<b>T</b> ,	<b>. *</b> .	5		467	T		• • • • • • •	. 4	Cops with shotgums - Dal Tex in back- ground - Police photographer leaving TSBD
423	T	•	6	Group gathered around Tippitt's car. Piece of paper or poster lying on dash-	<b>468</b>	T		•	5	Fire engine moving North to Elm on Hous- ton
424	т		7	board - No detail Cops examine Tippitt's billfold (accord-	469 <b>470</b>			<b>:</b>	6 7	Cops with shotguns Fifth floor window TSBD from directly be-
	Í			ing to Reiland who is narrating) - Note pad inside - Cops point to it - Cop	471	T			В	neath Cop with shotgun G police official - Del
425	T	, •	8	holding Tippitt's pistol beside his cer Group around Tippitt shooting site (over-	472	T			9	Tex in background Sixth floor window from beneath - Pans
426	7	80	9	exposed) Crowd around police car in business section - It drives away with someone in		_		• i.		down to view West on Elm St. Ext Several cops moving fast - Police car in conter cop getting out
427		•		Police cars driving up to Texas Theatre	473 474	T			11	
- 428 429		•		Texas Theatre looking up at tower Texas Theatre - Cops going in - Car pulls	475			_		Same cop looking up at County Records Bldg.
430	T	į	13	away Inside Texas Theatre - Very dark - Lights blinking - Cops hustle Oswald toward	476 477	_				TSBD from Houston St Pans in on 6th floor window
431	. 7	. •	14	inside doorway  Crowd gathered around police car outside  Texas Theatre - Oswald inside in back  seat - It drives away	478 479	T		•		Several more men going into TSND doorway Cop G two police officials running fast from near TSBD doorway toward garage entrance of County Record Bidg.
432	, T	M. Couch.49	1	(WFAA-TV ABC) In CAM 3 - Motorcade on Main St. approaching Houston St.	480 481	T			17 18	
433	Ť	/ •	2	Front of TSBO - Crowd on north side of Elm as CAM 3 rounds corner Houston G	482			•	19	(same as Willis 10)
434	T	/ .	. 3	Elm CAM 1. CAM 2. other photographers on	700	T .	,	•		TSBD (shows in Murray) Fake secret service man G Roger Cralg in
,	•		-	knoll - Newmens on ground - man with umbrells folded - Officer Haygood ap- proaching north curb - Hargis running	483	_	J.	Darmell.5		front of TSBD (shows in Murray) (WBAP-NBC) Elm St. activity after he jumped out of CAN 3 - Less than 1 min.
				to cycle South of Elm St. as CAM 3 moves			•			after fatal.shot

	Pho No.	Type	Photographer Name & No.	Seq. No.	Photo Shows			Photographer 1. Name & No.		Photo Shows
	484 485	-	J.Dernell,54	2	In parking lot In front of TSBD - Arrest of man on Elm	501	?	Unidentified	Appears i	n Muchmore 1
	406		•	4	In MIMP press room - Old Co. Court House - Witness interviews	502	?	Unidentified Man.67	Appears i	n Martin 3
	407 400		D.Owens.55	1 2	(WBAP-NBC) In front of TSBD Decker being interviewed in front of TSBD	503	?	Overpass Man.60		says he sen someone on overpass - pictures
	409		KRLD,56	1	(Photographer unknown) Two men running im- shadow of fence toward old building a-	504	?	Unidentified Woman,69		Bys he saw her taking pictures
					mong trees G shrubbery - Could be li- brary or church in Oak Cliff where sus-	505	?	Unidentified Woman,70	Appears i	n Altgens 1-4
	490	мс	T. Towner, 57	1	pect was believed to be hiding JFK rounding corner flowston G Elm	506	?	Unidentified Man.71	Appears i	n Murray at Houston G Elm
/	491 492	PC	*	1 2	JFK rounding corner Houston & Elm Camera cars going down Elm St.	507	8	Unidentified Man,72		n Murrny 1-22, 1-23, 2-5, 2-6
/	493	MC	P.Paschall,59	1	JFK going under overpass	508		Grent,73	Not sure	he took anything - Was in CAN 2
į.	494 495		N.Similes.60	. 2	JFK on Elm - TSBD in background JFK on Elm - Overpass in background	509	7	Unidentified Man.74	Took Elm rived	St. photo before motorcade ar-
	496 497	PB	D.Moorman,61 J.Nowman,62	1	JFK in car after shots (Sold to AP) JFK on Stemmons (Sold to AP)	510	?	Unidentified Photog.75		in motorcade. Jack Ruby? 6
	498		T.liowerd,63	i	JFK at time of fatal shot - Eva Grant says Howard had this photo - Not sure it exists	511	?	Unidentified Photog.76	Man takir Tex Blo	g movies from upper floor of Dal g. Sorrels took possession. yer Test. 6H324
	499		Unidentified Photog.64		Appears in Wm. Allen 196	512	?	Joe Scott.78	TSBO scer	es - KRLO photographer
	500	7	Babushka Lady,65		Could be Debushka Lady - Appears in many pictures taken north and south of Elm - Probably took movie of fatal shot					

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 seenes 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 sight.

Their photos are not counted on this list because they were not taken on November 22 in Dealey Plaza. In with sign saying "S.O.B. Jack Kennedy" is standing on South curb of Elm. facing position of man with untivella. This photo taken about 1 minute after shots. Could be a signal for successful hit.

derwood and Sanderson shared the same camera. Underwood bor-rowed 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

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 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 identi-The different items need to be identified fied. 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 for each photoin 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

- 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 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

	Perso	R&			Bullding	L '	
W. E. Barnett	102	mnn (unident.)	129	DarDQ place	301	library or church	307
boy	103	man with sign	130	County Courts	302	old building	300
C. Brehm	104	Lt. Montgomery	132	County Records	303	Parkland Hospital	309
Brennan	105	motorcycle cop	133	Del-Tex	304	police station	310
cab driver	106	Negro	134	frame buildings	305	Texas Theatre	311
cop	100 .	Negro girl	135	house	306	TSIN) (Texas School	312
2 cops	109	Newmons	136			Book Depository)	•
cops (officers)	110	newsmen (reporters)	137				
couple	111	officials	130	<del></del>		**************************************	
Roger Craig	112	old Negro .	139				
Crayen	113	L. Oswald	140				
Latin man (Mexicon, Cuban)	114	people (crowd)	141		Actions and	Evenis	
Lt. Day	115	photographers	142	errest	401	interrogating	409
Decker	116	Jack Ruby	143		402	interrogating	410
fake secret service men	117	sheriff(s)	144	carrying cars	403	leading	411
fireman	110	J. M. Smith	145	climbing	404	lighting cigarette	412
L. Florer	119	Sorrels	146 140	crying	405	mensuring	413
Haygood (officer)	120	stripper	140	dusting for fingerprints	406	tape recording	414
liergis	121	Summers	150	dan exem.s	407	telephoning	415
Clint Hill	122	Tague	151	head shot	408	waving	416
Lt. Johnson	123	Tippit. tramps	152		•••	yelling	417
J.F. Kennedy	124	woman (unident.)	153			,	•••
ladies (women)	125	Wolthers	154				
B. Lovelady	126	Weigman	155	<u> </u>			
men arrested	127	white-heired man	156	1	Object		
men in shirt sleeves	128	Will Co-Marica Man		·		•	
				back seat	501	live shell	522
	Regions or	Places		billfold	502	motorcade	523
				boxes	503	motorcycle(s)	524
arcade	201	N.W. corner 6th floor	218	bullet	504	note pad	525
area where Oswald's '	202	TSBD bldg, inside		bullet mark	505	paper bag (seck)	526
rifle found		Oak Cliff	219	camera (cam)	506	paper or poster	527 520
bar on Houston St.	203	overpass (triple	220	Camera cara	507	pickup truck	529
Commerce St.	205 ·	overpass)		cars	500	police cars	530
curb .	206	parking lot	221	cigarette	509	rear bumper -	
TSBD doorway	207	plaza	222	clock (Hertz)	510	rifle	531 532
east cupola	208	police (waiting room)	223	congressional car #2	511	sewer outlet	532
7th floor fire escape	210	railroad tracks	224	Corham sign	512	shadow	534
6th floor window of TSBO	211	residential street	225	desh board	513	shot gun(s)	535
. Ft. Worth	212	sheriff's office	226	Dr. Pepper bottle	514	shrubbery	
garage entrance of	213	spot where bullet bit	227	fence fire engine	515	telescopic sight	536
Sheriff's building		grass (bullet mark)	220		516	trees	537
grassy knoll	214	Stemmons Freeway	228	foot	517	umbrella	538
Houston St.			229	gun	518	unidentified object(s)	539
	215	steps					
Love Field	216	Tower	230	hand	519	white station wagon	540
Love Field Main St.		•					

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  $% \left\{ 1\right\} =\left\{ 1\right\}$ 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 anal-

ysis 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 is 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 in-formation 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-

Codina

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

Approx. No.

1. Photograph Number 1. Photograph Number 2. Type of photograph 1. Use M for movie, P for still photo, C for colors B for black and white, T for television footage 3. Photographer 1. Use photographer number in main list 4. Sequence number 1. Use photographer number in main list 5. Person who analyzed photograph 1. Photographers (Note: a picture may of course show other photographers taking pictures.) 2. Other persons (in the picture who are not photographers) 3. Regions or places 4. Buildings 1. Events and actions 4. Buildings 1. Use place code in Table 4 5. Events and actions 6. Objects 1. Use code in Table 4 5. Events and actions 6. Time 6. Time 7. Place of the photographer number in main list 1. Use code in Table 4 6. Time 7. Place of the photographer places 8. Use code in Table 4 8. Time 8. Time 9. Capsule summary of photograph 1. Use lime code. Previously, adopt a scale of times: fractions of seconds, labeled with Zapruder frame numbers during the Zapruder move sequence showing the shots; then, seconds, minutes, and hours before and after the Z sequence as may be appropriate; then, days and dates 9. Capsule summary of photograph 1. Capsule summary of photograph 2. Sevental summary of photograph 3. Disconding to specified rules for summarizing and examples  Approximate moximum number of total characters for one computer record: 200 to 300		Field	Instructions	of Character
2. Type of photograph  2. Type of photograph  3. Photographer  4. Sequence number  5. Person who analyzed photograph  6. Photographer (Note: a picture may of course show other photographers taking pictures.)  7. Other persons (in the picture who are not photographers)  7. Regions or places  8. Events and actions  8. Objects  7. Place of the photograph  8. Time  8. Time  1. Time  1. Photographers  1. Photographers (Note: a picture may of course show other photographers taking pictures.)  2. Other persons (in the picture who are not photographers)  3. Regions or places  4. Buildings  4. Buildings  5. Events and actions  6. Objects  7. Place of the photograph  8. Time  8. Time  1. Sequence as may be appropriate; then, days and dates  9. Capsule summary of photograph  1. Use lot to 30 words describing the contents and importance of the photograph  1. Sequence as may be appropriate; then, days and dates  9. Capsule summary of photograph  1. Sequence as may be appropriate; then, days and dates  2. Approximate maximum number of total	а,: <u>1</u>	dentification:		
still photo, C for color, B for black and white, T for television footage  3. Photographer  Use photographer number in main list  4. Sequence number  Use photograph sequence number in main list  5. Person who analyzed photograph  Use analyst identifying number according to a previously established key  B. Contents of the Photograph:  1. Photographers (Note: a picture may of course show other photographers taking pictures.)  2. Othor persons (in the picture who are not photographers)  3. Regions or places  4. Buildings  Use place code in Table 4  5. Events and actions  Use building number in Table 4  5. Events and actions  Use code in Table 4  3 to 12  4. Objects  Use code in Table 4  3 to 12  7. Place of the photograph graph  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 sproporlate; then, days and dates  9. Capsule summary of photograph  Approximate maximum number of total	/ 1.	, Photograph Number		3
1. Sequence number  4. Sequence number  Use photograph sequence number in main list  5. Person who analyzed photograph  1. Protograph  1. Photographers (Note: a picture may of course show other photographers taking pictures.)  2. Othor persons (in the picture who are not photographers)  3. Regions or places  4. Buildings  Use place code in Table 4  5. Events and actions  Use code in Table 4  5. Events and actions  Use code in Table 4  3 to 12  7. Place of the photograph	2.	. Type of photograph	still photo, C for color, B for black and white,	.2
number in main list  5. Person who analyzed photograph  S. Person who analyzed photograph  Dusc analyst identifying number according to a previously established key  B. Contents of the Photograph:  1. Photographers (Note: a picture may of course show other photographers taking pictures.)  2. Othor persons (in the picture who are not photographers)  3. Regions or places  4. Buildings  Use place code in Table 4  5. Events and actions  Use code in Table 4  5. Events and actions  Use code in Table 4  3 to 12  7. Place of the photograph  graph  Use time code. Previously, adopt a scale of times: fractions of seconds, labeled with Zapruder frame numbers during the Zapruder frame number of the photograph, according to specified rules for summarizing and examples  Approximate maximum number of total	3.	. Photographer .		2
photograph  number according to a previously established key  B. Contents of the Photograph:  1. Photographers (Note: a picture may of course show other photographers taking pictures.)  2. Othor persons (in the picture who are not photographers)  3. Regions or places  Use place code in Table 4  4. Buildings  Use building number in Table 4  5. Events and actions  Use code in Table 4  3 to 12  7. Place of the photograph  graph  Use time code. Previously, adopt a scale of times: fractions of seconds, labeled with Zapruder frame numbers during the Shots: then, seconds, minutes, and hours before and after the Z sequence as may be appropriate: then, days and dates  9. Capsule summary of Use 10 to 30 words describing the contents and importance of the photograph  Approximate maximum number of total	4.	Sequence number		5
1. Photographers (Note: a picture may of course show other photographers taking pictures.)  2. Other persons (in the picture who are not photographers)  3. Regions or places  4. Buildings  Use place code in Table 4  5. Events and actions  6. Objects  7. Place of the photo- graph  Use time code. Previously, adopt a scale of times: fractions of seconds, la- beled with Zapruder frame numbers during the Za- pruder movie sequence showing the shots; then, seconds, minutes, and hours before and after the Z sequence as may be ap- propriate; then, days and dates  9. Capsule summary of photograph  Use lo to 30 words des- cribing the contents and importance of the photo- graph, according to specified rules for sum- marizing and examples  Approximate maximum number of total	5,		number according to a previously established	
a picture may of course show other photographers taking pictures.)  2. Othor persons (in the picture who are not photographers)  3. Regions or places  4. Buildings  Use place code in Table 4  5. Events and actions  Use code in Table 4  5. Events and actions  Use code in Table 4  5. Events and actions  Use code in Table 4  5. Events and actions  Use code in Table 4  5. Events and actions  Use code in Table 4  5. Events and actions  Use code in Table 4  5. Events and actions  Use code in Table 4  5. Events and actions  Use code in Table 4  5. Events and actions  Use the grid shown in the map, letter first, then number  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  9. Capsule summary of Use 10 to 30 words describing the contents and importance of the photograph according to specified rules for summarizing and examples  Approximate maximum number of total	B. <u>C</u>	contents of the Photogr	taph:	
the picture who are not photographers)  3. Regions or places  Use place code in Table 4  4. Buildings  Use building number in Table 4  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 photograph  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  9. Capsule summary of photograph  Use 10 to 30 words describing the contents and importance of the photograph, according to specified rules for summarizing and examples  Approximate maximum number of total	1.	a picture may of course show other photographers taking	Previously, make an alph- abetic key to photograph-	0 to 12
4. Buildings  Use building number in Table 4  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 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  9. Capsule summary of photograph  Use 10 to 30 words describing the contents and importance of the photograph, according to specified rules for summarizing and examples  Approximate maximum number of total		the picture who are	Use person code in Table 4	0 to 12
Table 4  5. Events and actions  Use code in Table 4  3 to 12  6. Objects  Use code in Table 4  7. Place of the photo- graph  Use the grid shown in the map, letter first, then number  8. Time  Use time code. Previously, adopt a scale of times; fractions of seconds, la- beled with Zapruder frame numbers during the Za- pruder movie sequence showing the shots; then, seconds, minutes, and hours before and after the Z sequence as may be ap- propriate; then, days and dates  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  Approximate maximum number of total	3.	. Regions or places	Use place code in Table 4	3 to 12
5. Events and actions  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  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  9. Capsule summary of Use 10 to 30 words describing the contents and importance of the photograph according to specified rules for summarizing and examples  Approximate maximum number of total	•	Buildings		0 to 12
7. Place of the photo- graph  Use the grid shown in the map, letter first, then number  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  9. Capsule summary of Use 10 to 30 words describing the contents and importance of the photograph  Use 10 to 30 words describing the contents and importance of the photograph according to specified rules for summarizing and examples  Approximate maximum number of total	5,	Events and actions	Use code in Table 4	3 to 12
the map, letter first, then number  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  9. Capsule summary of Use 10 to 30 words describing the contents and importance of the photograph cribing the contents and importance of the photograph, according to specified rules for summarizing and examples  Approximate maximum number of total	6.	Objects	Use code in Table 4	3 to 12
adopt a scale of times: fractions of seconds, labeled with Zapruder frame numbers during the Za- pruder movie sequence showing the shots; then, seconds, minutes, and hours before and after the Z sequence as may be ap- propriate; then, days and dates  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  Approximate maximum number of total	7.		the map, letter first,	2
photograph cribing the contents and importance of the photograph, according to specified rules for summarizing and examples  Approximate maximum number of total	8.	Time	adopt a scale of times: fractions of seconds, la- beled with Zapruder frame numbers during the Za- pruder movie sequence showing the shots; then, seconds, minutes, and hours before and after the Z sequence as may be ap- propriate; then, days and	5
Approximate maximum number of total characters for one computer record: 200 to 300	9.		cribing the contents and importance of the photo-graph, according to specified rules for sum-	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 enhance ment 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?
- Can rifles be seen in firing positions?
   Can the faces of the gunmen be scen?
   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 this shown in the s 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 assessination of President Kennedy.

# Part 4. Appendices

### Acknowledgements and Notices

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

sinh 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 eciate any comments and corrections any may be kind enough to send me. All corrections will be published at a later date.

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 of the picture.

If any render 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 fa'r been found out by the researchors, 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 selfaddressed 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 Computers and Automation 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 cardboard tube. As additional information become available, the large chart will be brought up to As additional information becomes 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 dis-

• 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 assasreasons. 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 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.

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 brothnad 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 sand and one of the old sand.

he is absolutely same, and one of the old-style Americans left, and that he has a great deal of courage. He also suffered from underestimating the strength of the forces ranged against him. In ad→ dition, 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.

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, A Citizen's Dissent, 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? -If you want to know how and why, read the book <u>Inquest</u> 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 ernment sources) for the article that he in the New Yorker magazine attacking Garrison, and the New Yorker magazine attacking Garrison, and in the New Yorker magazine attacking Garrison, and that article contains over 100 misstatements. Recently, one of the Warren Commissioners, Senator Richard Russell, har said publicly that he has doubts about some of their conclusions. Also Jess Curry, Dallas police chief in November 1963, has said publicly the same thing.

• Did Lyndon B. Johnson know about the plans for Also Jesse

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 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?

1. 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 assassina-tions in the United States.

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

It would be good to dismantle the Central Intelligence Agency — which President Kennedy before he was assassinated said he

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

voted by Congress.

5. It would be good to expose J. Edgar Honver, to call the attention of the public to his suppression of evidence and his failure to warn President Kennedy of the plot for as-sassinating 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 Mlami police's warning, at least.

· What about an organization dealing with this subject? — There is one. As mentioned above, a con-siderable amount of the new evidence comes from the Ject? work of a group of researchers, who have interview 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 Schator 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 Committec. 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, <u>Midlothian</u> <u>Mirror</u>, Midlothian, Texas, who has been compiling Mirror, Midlothian, lexas, and not seems. He 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 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.

 liave any of the researchers been killed or threatened? — No, not yet. In appraising the forces on each side of this issue, the great weight is still on the side of the American people, who have not yet been completely "taken over". In fathe capacity of the American people to deal with In fact 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 nave 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.

## Bibliography

Buchanan, Thomas F / Who Killed Kennedy? / G. P. Putnam's Sons, New York, N.Y. / 1964
Cutler, R.B. / The Flight of CE 399: Evidence of Conspiracy / R. B. Cutler, Manchester, Mass. / 1969, softbound, 73 pp. \$ ? Evidence of

- Epstein, Edward J. / Inquest: The Warren Commis-sion and the Establishment of Truth / Viking Press, New York, N.Y. / 1966, hardbound, 224 pp. \$5.00
- Flammande, Paris / The Kennedy Conspiracy: An Un-commissioned Report on the Jim Garrison Investigation / Meredith Press, New York, N.Y. / 1969, hardbound, 548 pp. \$6.95 Hepburn, James / Farewell America / Frontiers Pub-
- Hepburn, James / Farewell America / Frontiers Publishing Co., Vaduz (Liechtenstein) / 1968, hardbound, 418 pp., \$6.95

  Joesten, Joachim / Oswald: Assassin or Fall Guy? / Marzani G Munsell Publishers, Inc., New York, N.Y. / 1964, hardbound, 170 pp., \$3.95

  Joesten, Jonchim / How Kennedy was Killed: The Full Appalling Story / Peter Dawnay, Landon, England / 1960

- Joesten, Joachim / Marina Oswald / Peter Dawnay
  London, England / 1967, hardbound, 165 pp. \$2.50
  Jones, Penn, Jr. / Forgive My Grief I / The Midlothian Mirror, Inc., Midlothian, Texas / 1966,
  softbound, 168 pp. \$2.95

  Jones, Penn, Jr. / Forgive My Grief II / The Midlothian Mirror, Inc., Midlothian, Texas / 1967,
  softbound, 192 pp. \$3.00

  Jones, Penn, Jr. / Forgive My Grief III / The Midlothian Mirror, Inc., Midlothian, Texas / 1969,
  softbound, 88 pp. \$ ?

  Kelly, Fred C. / The Wright Brothers / Ballantine
  Books, New York, N.Y. / 1950, softbound, 214 pp.
  \$0.35

- Lanc, Mark / A Citizen's Dissent / Fawcett Publications, Inc., Greenwich, Conn. / 1969, softbound, 320 pp, \$0.95
  Lane, Mark / Rush to Judgment / Holt, Rinehert and Winston, New York, N.Y. / 1966, hardbound, 478
- pp, \$5.95
- Marcus, Raymond / The Bastard Bullet / Rendell Pub-lications, 1249 High Point St., Los Angeles, Calif. / 1966
- Meagher, Sylvia / Accessories After the Fact: Meagher, Sylvia / Accessories After the Fact: The Warren Commission, the Authorities, and the Report / Bobbs-Merrill Co., Inc., New York, N.Y. / 1967, hardbound, 477 pp. \$8.50

  Meagher, Sylvia / Subject Index to the Warren Report, and Hearings and Exhibits / Scarecrow Press, New York, N.Y. / 1966

  Thompson, Josiah / Six Seconds in Dallas / Bernard Geis Associates, New York, N.Y. / 1967, hardbound, 323 pp. \$8.95

- bound, 323 pp, \$8.95 Sauvage, Leo / The Oswald Affair: of the Contradictions and Omissions of the Warre Report / World Publishing Co., Cleveland, Ohio / Report /
- Weisberg, Harold / Whitewash The Report on the Warren Report / H. Weisberg, Route 8, Frederick, Md. / 1965, softbound, 224 pp. \$4.95
- Weisberg, Harold / Photographic Whitewash pressed Kennedy Assassination Pictures / H. Weisberg, Route 8, Frederick, Md. / 1967, softbound, 296 pp, \$4.95
- Wise, David / "Secret Evidence on the Kennedy Assasise, David / "Secret Evidence on the Kennedy Assassination", in the Saturday Evening Post, April 6, 1968, pp 70 to 73 / He said: "10 feet, or approximately 25,000 pages of Warren Commission files remain closed.... A 185-page List of Basic Source Materials gives the titles of 1555 Commission Documents of which 390 are closed or partially closed. Of the 250 totally closed, 165 are FBI reports, 50 are CIA, 13 are State Department, 11 are Secret Service, and the rest are from a scateare Secret Service, and the rest are from a scattering of other agencies."

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