# Part 1. Introduction

Who Assessinated President Kennedy?

On November 22, 1963, in Dallas, Texas, President John F. Kennedy, while rising in an open limousine through Dealey Plaze 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 aftermoon in a movie theatre in another section of Dalies; that night he was charged with shooting President Rennedy from the sixth floor easternmost window of the Texas School Bank Depository Building everloading Dealey Plaza. This act Oswald denied steedily through two days of questioning (no record of questions and answers was ever preserved). Two days later while Usuald 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. Sapreme Court, published its report in September 1901, and concluded that Oswald was the sole assassia 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 undenlable facts. In other words. Uswald was not the sole essassin, and there was a conspiracy.

This article will cevelop 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 "patry." 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

One of these shots missed entirely; one hit Governor John B. Cozzally, Jr. of Texas, riding with Kennedy; and four hit President Kennedy, one in his throat, one is 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 Con-nally shown in some eO frames of the famous film by Abraham Zapruder: (b) the locations of the injuries in Kennedy and in Connally; and (c) more then 100 pictures, coasisting of more than 30 still photographs and more than 70 frames of mo-

Nore than 50 persons were involved in the conspiracy at the time of firing the shots. These persons included nemoers of the Dailas police force (but not all of the Callas police - and that ac-

Note from the Publisher: In order to include the article by Richard E. Sprague in this issue of Com puters and Automatica, it was necessary to type the article in the type loss of our "Across the Editor's Dook" section, rather than the usual typeface for our articles. He righet any reduction in legibility than any have resulted. counts for some strange events), elements of the Central Intelligence Agency, some noti-Castro Cuna exiles, some adventurers from New Orleans, and some other groups. After the assassination, some very highly placed persons in the United States at became accessories to the error. ether words, they participated in accidence 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 cil's famous movel 'l'Al4") over the whole crime.

Of course, asserting these statements makes them meither true nor believable. Without very alrong evidence, it would be rail to make such statements. As to believability, prior to District Attriney Jim Carrison's trial of Clay Shaw in New Cricans in Feb. and March, 1907, public opinion pools in the United States showed that over 75 percent of the people in the United States believed that there was a conspiracy. The press, radio, and 1/ Almost everywhere in the United States reported Girffison's investigation and the New Orleans trial is a very distorted way. Firthermore, Garrison did infiprove to the satisfaction of the New Orleans jury that Clay Snaw was involved in the conspiracy, even though he proved that Snaw knew and met Oswald. The news media of the United States (except for two newspapers in New Grieans) 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 noil 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 orlieve for five years (1903 to 1908) that the Wrongit 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 "hard-headed" American press believe that the Wright brotkers 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 alone with other evidence should and can initialize major change in the beliefs of the people of the United States. As for beliefs of the people of Europe, it has long been and still is accepted there that President John F. Kennedy was assessinated by a conspiracy.

### What is the Evidence?

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

There are four prime sources of new evidence and

1. Researchers all over the United States, same 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.

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ocscribed in this article.

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

4. The office of District Attorney Jim Garrison in New Orleans has, under his direction, carried on (and continues to carry on) an extensive investigation of President Kennedy's assassination. Much of this evidence has been made available to the NCTIA.

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

### Four Important Reference Books

One valuable book is Sir Seconds in Italias, by Professor Josiah Thompson, a professor of philosophy at Haverford College, Haverford, Pa., published in 1960 by Hernard Geis and Associates, New York, 323 Thompson made a thorough and competent analy ysis of the happenings during the six seconds when President Kennedy and Governor Connally of Texas were shot. With the cooperation of life magazine during the first part of his investigation, he looked at the clear original of the Zapruder film. tafter that, Life magazine locked the film up and denied any further access, until Garrison subpoensed the film for the New Orleans trial of Clay Snaw.) Thompson showed that at least three gunner 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 Neagher, published in 1967 by Bobbs Merrill Co., Indianapolis, Ind., 477 pages. She presents a most thorough analysis of the gaps, conflicts, contradictions, and failures to investigate, that are clearly revealed by careful study of the Warren Commission Report and the 26 volumes of supporting documents.

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

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

government, many members of the Dallas Police Hepartment, and many menters of the CIA, the ful, and the Secret Service, all were involved in the plot. I do not agree with nor believe some of these alle-

Appendix 1 of this book lists many "classified" documents in the National Archives of the United States, such as no. 93), a secret CIA document en-titled "Oswald's occess to information amout the U-2" (the spy plane). Appendix 2 lists "More references, earlied "reports, recorands, and documents" such as "Dossier Richard M. Helms", "General Dynamics Dossier F 111" — but how to get access to those references is numbere mentioned. Pages 300 to 324 contain a remork-ule account of twenty years activity by the CIA. Much of the information in the book is clearly true; other information is probable or plausible; some information is clearly in the category "possible but hard to believe" and by no means proved.

For reasons that may be quessed, 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 mise 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 hiblingraphy at the end of this article. Asony the more important authors are Harold Weisterg, Paris Gammange, Mark Lane, Rosemary James. Josephim Joeston, 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 public 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 lost. The record of the trial as published in The Tires Picarune contains many indications that:

- 1. Clay Shaw Jid 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.
  2. There were at least three gunden in Dealey Plaza firing at President Kennedy on November 22, 1963, from at least two directions, and therefore there was a conspiracy. What Garrisca failed to prove to the satisfaction of the New Orleans jury was that Clay Shaw was involved in the conspiracy in Dalles.

### The Mismi 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 Niami police informer who had infiltrated the National States Rights Party interviewed one of its chieftains, a Mr. Milteer, in a hotel room in Mismi. Unknown to Milteer the room had been bugged by the Wismi police and the interview was taped. The infermer draw Milteer out on

the subject of assassinations. Milters said that Jack Kennery was going to be assassinated either in Miani or in some other city by individuals who were connected with right wing groups including the Minute Nen 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 party would be picked up by the police afterwards. He suid a can using the name Brown was the most likely one to do it. He added that Brown had been following Martin Luther King sround the country for several months trying to assissinate him too.

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

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

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

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

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

### Oswald's Message to the FBI

Among other evidence collected by Garrison (and confirmed by Mark Lone) is the fact that Oswald telephoned the Dallas, Texas, office of the FBI on Nowember 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 November 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 ilicks. He thoused up voluntarily in Garrison's office. Carrison and one of the researchers. Jones Harris, suddenly realized that they had seen his picture before, as one of the persons in Healey Plava, mear the time of the fatal shooting (See Fig. 41). Hicks admitted that he was the radio communicator among the rifle teams since they were out of sight from each other, and of course each team would need to know what was going on. Jim Hicks had set up a communications center at the Adolphus Hotel prior to the assassination. The photograph Harris had seen is a picture of Jim Hicks in Healey Plaza just after the shots, with his radio in his left rear trouser pocket and anteana hanging down outside. (See the foreground of Figure 11.)

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

#### Strange Events

In the Warren Commission's activities, there are many strange events, extraordinary patterns of behavior, and important unanswered questions to which the Warren Commission paid almost no attention. There are more than 50 instances of these strange events — where the Warren Commission did not look, or looked aside, as if they were trying not to see. Among these are the following:

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

- Crucial physical evidence was destroyed, as
  in (a) washing of Governor Connally's bullet-prenetrated 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 rarks; etc. The Warren
  Commission accepted these actions without
  questioning.
- 3. The Warren Commission did not examine the autopsy X-rays and photographs of President Kennedy. In fact, the photographs were not even developed until two years after President Kennedy's death. The Kennedy family and Burke Harshall, their lawyer, assisted in locking them up.
- 4. The Warren Commission accepted the sudden appearance of a pristine bullet (Commission Exhibit 379) fitting Oswald's gun, on the wrong stretcher in Parkiand No-pital, 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 notion of JFK's head after the fatal shot was reversed.
- 6. The Warren Commission ignored the visible and violent backward motion of fresident Kennedy's head shown in the Zapruder film at the instant of the fatal shot a motion that conclusively shows that the President was fatally shot from the front.
- 7. The Warren Commission failed to investigate many possible motives for shooting President Kennedy, and who would profit thereby. Etc. Perhaps the strangest of all the events are some

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 reams, in the foreground, with radio is pocket, and "S"-shaped astenna 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, 1969,

2. Chief Justice Earl Narren has steadily refused to consider any new evidence. As recently as 1969 he told newscen. I know of no new evidence, and here seen no new evidence. It is a fact that such new evidence exists in large quantities. This strange attitude may be coupled with Warren's steady silence in response to letters.

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

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

Over 50,000 items of evidence exist which support and mutually confirm a contrasting hypothesis. hypothesis is that there was a conspiracy, and that at least four persons shot at President Kennedy, and that more than 50 persons were involved in the conspiracy. In fact, about 6 persons who participated in the conspiracy have admitted their participation and described what happened in their own involvement. All of these items of evidence collected confirm the information in all of the photographs, and are very largely consistent. I do not silege 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 is 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 rumber 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 450 frames.

Kany 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 harren Commission did not interview a single one of the professional photographers, and 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 careramen. The Marren Commission looken at none of their photographs.

Two of the photographers were from the white House. One of these men (Thomas Atkins) was the regular photographer for the white House. He made a special file for Lyndon B. Johnson. Atkins used his own film plus some footoge obtained from the television photographers. Johnson lonked at the film and then put it away. This film is now stored with the Kennedy Remortal Livrary 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.

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

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

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

Most of the "official" photographs of the Warren Commission, or of the FBI, or of the Dailas 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 liughes, 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

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

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

The Narron 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 379) which supposedly passed through both Kennedy and Connally. All this evidence can be demonstrated to be faked.

Photographs counted with testimony prove that the Dellas 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; hotographer, Er. Studebaker (who in reality was an meateur 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-calleo "gun rest", was so obviously inadequate, that the police moved them to look lot more like a gun rest. Jack Beers, <u>Italias Morning News</u> photographer, took photos of the boxes at 4 pm while they were still in their original position. This fact is confirmed by several photos taken at the time of the shots from outside the building showing the corner of the topmost box stacked three high.

By the time Studebaker took photos of the boxes, used as Exhibits by the Warren Commission, it was after dark, and the Loxes 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, Meaver, 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 TSBD.

## The Zapruder Movie

Of all the photographs taken in Dealey Plaza on that fateful day, the color movie sequence of some 400 frames taken by Abrahan 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 subjective and shown NIME times by Assistant District Attorney Alvin Oser in New Orleans in February 1967, at the trial of Clay Shaw. The judge, the jury, the newspaper reporters, and the spectative 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 fave the first went through the throat of President Kennedy; the second struck sennedy 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 Nain St.
- 2. The last of the five shots (coming from the graisy 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 beckmards with great force, in accordance with the laws of physics. (For a scientific analysis, see <u>Six Seconds in Units</u>.)

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

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

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

Other explanations have been offered, such as a whiplash motion, caused by Kennedy's seck brace, or a reverse explosion as the builet from the rear exited Kennedy's head in fruct. Josiah Thompson's analysis in Six Seconds in Dallam, preves beyond a

sandow of a doubt, that only the love of the velocity buffer striking kennedy's head from the front could preduce the head acceleration backward shown in Zagrader frames 313 through 315, and measurable therefron.

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

### Other Activities at the Time of the Shots

The photographs taken at the time of the shots (see Chart 2) show many other significant and inportant activities. Coupled with the testimony of
photographers and other witnesses, the photos prove
the Erren Commission wrong on several other points.
To describe all of these points in detail requires
more space than is here available. But the follows
ing list summarizes these activities and concluzions (see also Chart 1 for timing and direction
of abots).

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

b. The second shot, fired by man #6 from the second floor window of the Dol Tex Building, struck kennedy in the back at 2226.
 c. The third shot, fired by man #0 from the Trans School Book Depository (TSBD) hit = Connally in the back at 2230.

d. The fourth shot fired by man #6 from the test Tex Building struck the curb on the south side of Main St. at about 2305.
The fifth shot fired by man #0 from the TSBU hit Kennedy in the head at 2312+.

The sixth shot fired by man #5 from the

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

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

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

1. A man who looked very like Oswald ran down the grassy knoll ten minutes after the shots here fired and drove away down Elm St. with a Letin-appearing man in a light-colored station wagon with a luggingerack. 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 sati-Castro Cubans.

## Man Who Ran Away

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

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

ly the man who fired the fatal shot, shot for, 6. lis position has been shown on the map in area 166. The photos show that he escaped by means of a white ear, which had been previously parked just a few feet from his position.

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

The photos also show where and how men #2.3 6 4 ran away after the shots.

### The "Tramps" and the "Phoney Policemen"

Approximately a half hour after the shots were fired. Sergeant B. V. Harkness of the Hallas Police was instructed by Inspector Sawyer of the Hallas Police (in command of Healey Pinza police activities after the assassination) to go back to the railroad tracks (see Map and Fig. 1) and stop a freight train which was being enved out and search it. (The approximate time is established by the angles of the shodows in the photographs, by the testimony of Gergeant Harkness to the Warren Conmission, Vol. 6, p. 312, and by the timing of Wa. Allen's sequence of photos.) The area where the freight ears were located is to the north and west of the TSIM, and north of the grassy knoll area. Sergeant Harkness says he arrested some "trangs"

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

The route that liarkness would naturally take if he went to the Sheriff's office with the three "tramps" is exactly the route portrayed in the series of four photographs (Figs. 2, 3, 4, and 5), shown in this article. In Figs. 2, 4 and 5, two policemen can be seen escorting three "tramps" ensured from the direction of the railroad yards along the Elm Street extension in front of the TSBD. They turn south in front of the TSBD (Fig. 4) and proceed down Houston St. to the Sheriff's office. The vehicle entrance to the office is located at the center of the block on the cast 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.

they proceed toward it in Fig. S.

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

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

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

(Taxt continued on page 50)

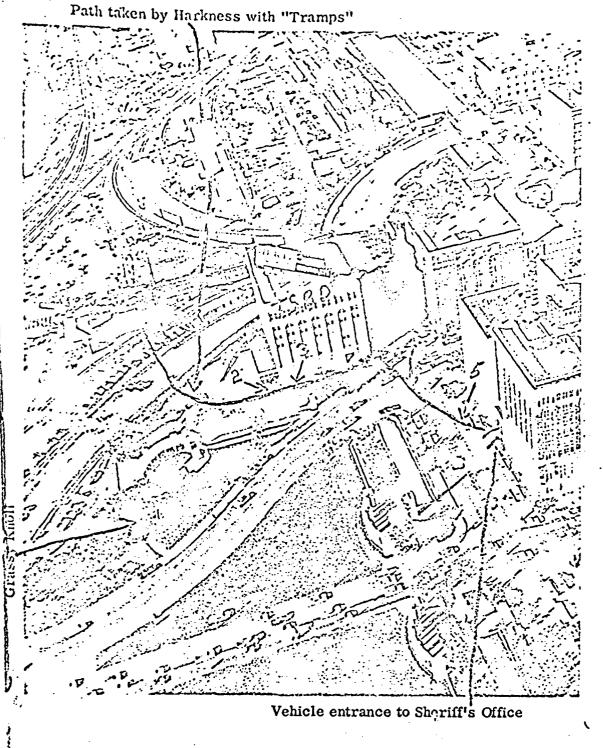


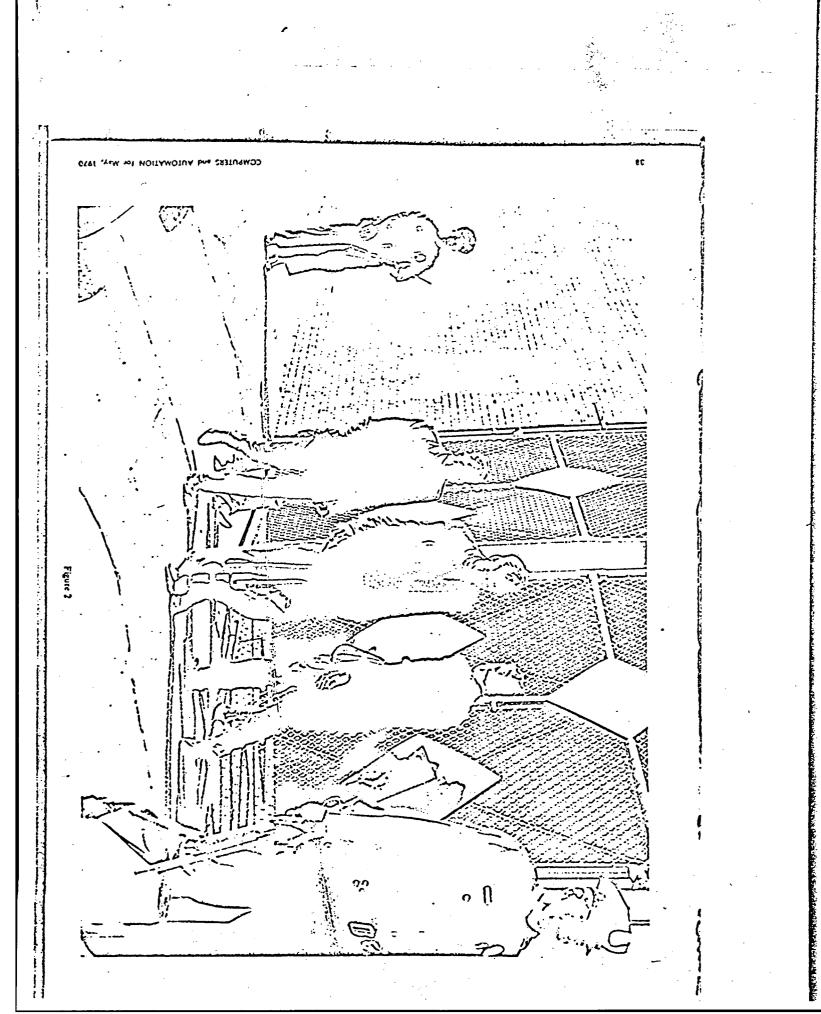
Figure 1

Helicopter view of Dealey Plaza and its buildings, with the path of the arrested "Tramps" marked.

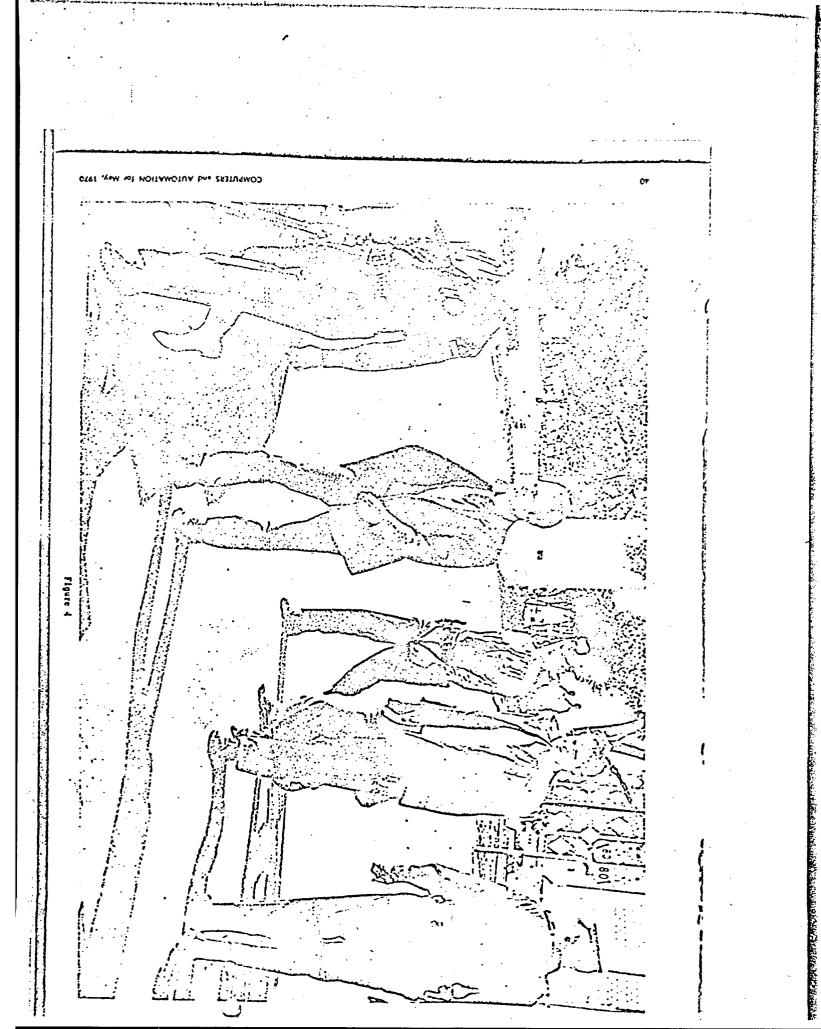
Numbers on the photograph indicate where photographs in Figures 2, 3, 4 and 5 were taken.

COMPUTERS and AUTOMATION for May, 1970

37



Figures 2, 3, 4 and 5 П 



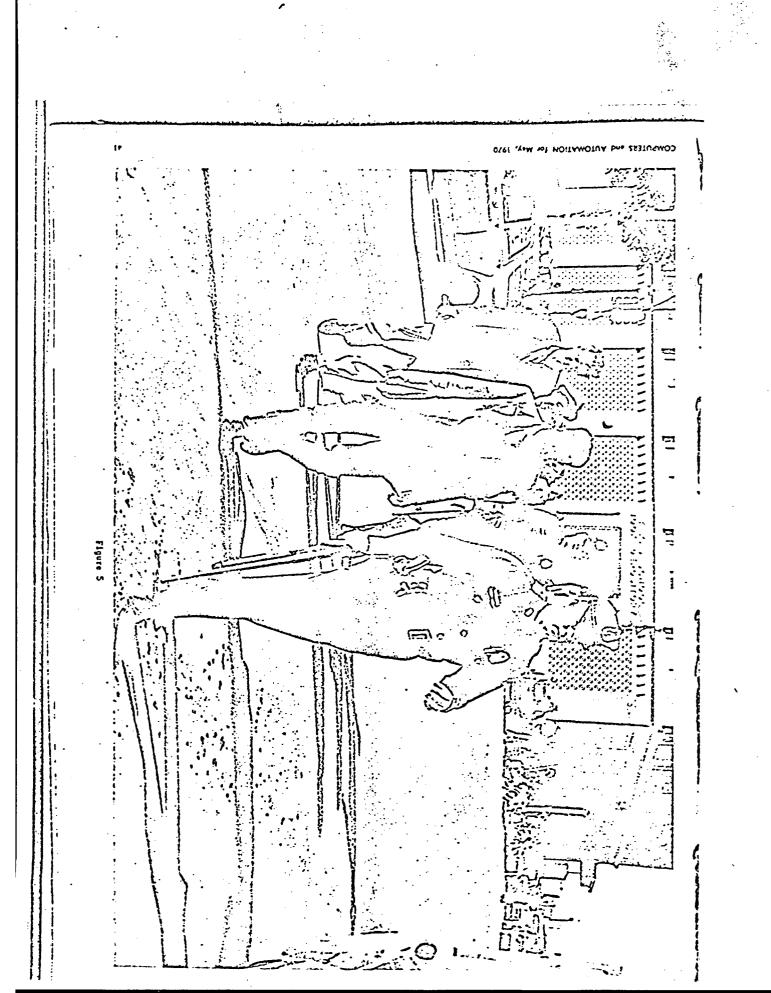




Figure 8

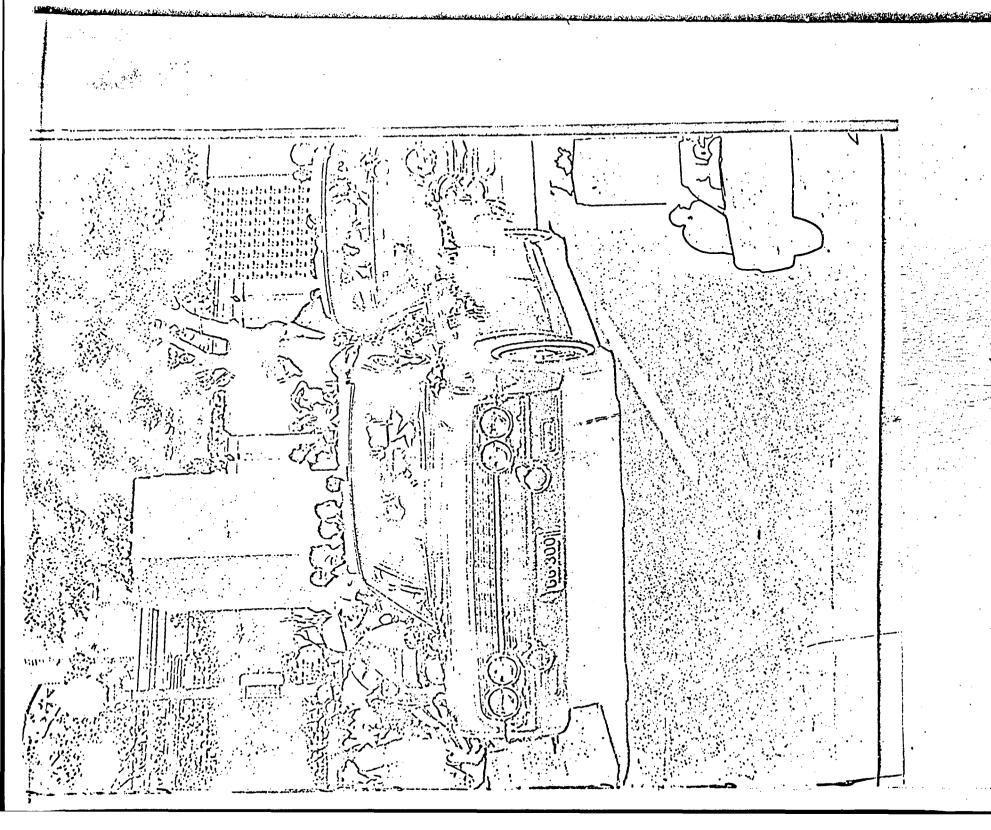
John F. Kennedy on Elm St. about the time of the first shot. Z 186 (Table 3, No. 101). The umbrella belonging to the "Umbrella Man" can be seen at the lower left of the Stemmons Freeway sign. Man #2 can be seen behind the wall to the left of that sign.

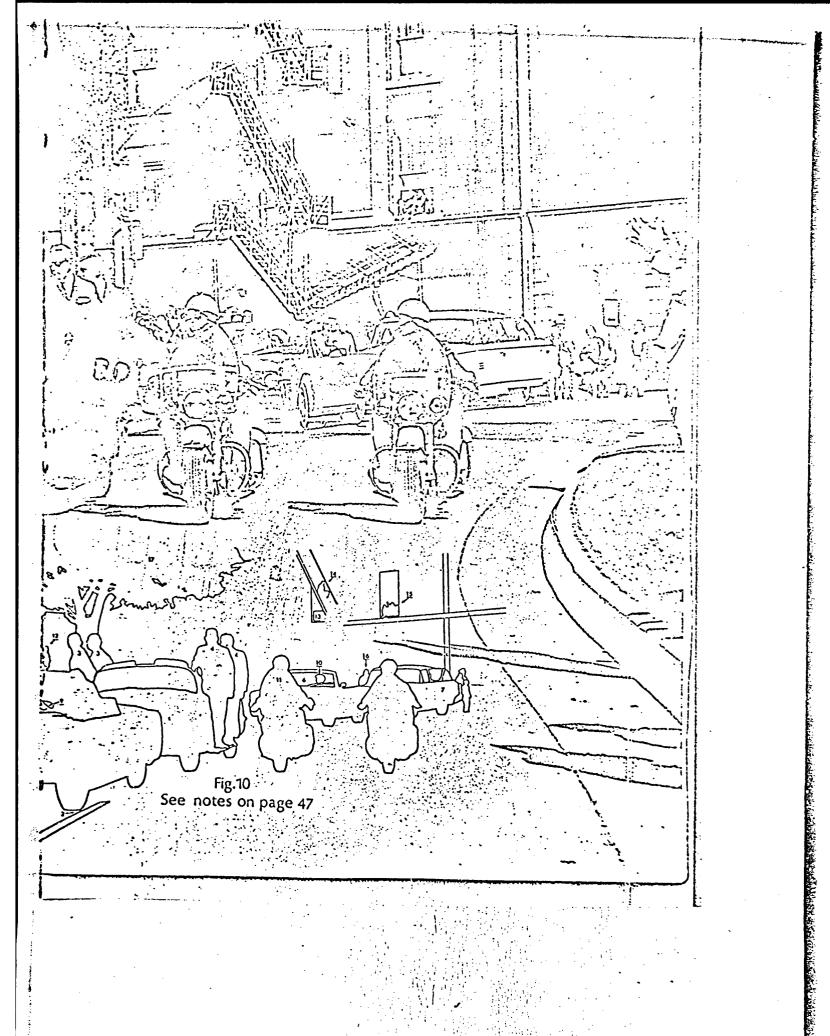


 $\{ i,$ 

Figure 9

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





# INTEL AND CHIDE TO LOCATION OF TERSONS AND SIGNIFICANT COURCES IN THE SPATIAL CHART OF DEALEY PLAZA

(See Chart 1, pages 46 and 47)

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 botten (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 beseers of the map.

2. Period hanes. 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 placed person same refers to two or more persons with the same lost name.

3. humbers. A number following the name of a person refers to the film for rell) number of a still photograph, or the frame number of a mule sequence taken by such person. humbers preceded by 2 refer-to-frame numbers of the culor movie film taken by Abraham Zapruder standing in orea D 7.

4. Motorrade. The leading parties of the matercade including President J. F. Kennedy is shown diagrammetically 7 to 8 seconds before

the first shat. The motorcode is arranged in argumer along Bloosten St. and Main St. All there ears, of course, were moving and therefore accepted different positions at later times. The nelly successive locations aftern for later positions of the motorcode are the locations of Pereident Reamon's head in the lead cer. There head locations are marked by a sequence of data along the St. There locations are marked by a sequence of data along the St. There locations were carefully determined by the SHI; they are identified by the frame numbers of the color movie film token by Abenam Zapruder; these locations were eard by the herea Commission in their investigation. Successive frames were 1/10 second apart.

5. Note. The information shown in the diagram of the matercace (C-J 14, J 15) is <u>not</u> repeated in this index.

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

Buch of the geographic information (such as locations of trees, white traffic lines, yalls, marks on turbs, etc.) is polyrepeated in this index.

Person or Chiect	Location	Person or Object	Location	Person or Object	Location
Altgers 2, 3	J 13	Renedy beking the	0 10-11	hmman(a)	i. 6
Althers 6 (41 Z 255)	F B	ook tree. from Z 161		Nix 1, 2s	K 12
Aligens 7 (st Z 346)	G 8	.to Z 107		hts. 20	1 10
		Kennrdy 61:		Ornald's alleged window	A 13
"Batushio Lady" (who took	` F 6	Z 133	C 11		
an entire movie of the		Z 151	0 11	parking area and railroad	B-E 4-3
estorcede from the ep-		Z 167 (throat shot)	D_10	) * rd	
posite side from Zepruder)		Z 226 (Leck shet)		puff of smoke (shown in 9	£ 7
bell 1. 2	H 11	Z 238	Ε 9	trocas,	
Bell 3	H 11	Z 255	:	reilroad yard and parking	8-E 4-5
Betreer 1	E 13	Z 285	•	8 F C 6	
Betzner Z	C 13	Z 312 (keed stol)	r_ 6		
Betiner 3	C 12	Z 313 (2nd bood sket)	<u>-</u>	scole in Scot	K 8-9
Gond, 1 to 3	G 13	. Z 346	•	shote, sources of:	
Dand, 4 to 9	G 11	Z 400	G 6	lst	E S
Breha(s)	F 9	Z 433	H 5	2ad	'A 15
BECARAM	D 13	Z 465	# 3	3rd	A 11
bullet mark(a) on curb	J 3, H 6	Z 485	<b># 1</b> .	4th	A 15
		kmoll, grassy .	621667	Sth	A 11
Connerce St.	K 1-6		•	6th	0 6
compass directions	J 8	Fain St.	J 1-15	***	• •
Connelly, Gov. J. B	E 9	Man # : these were		Styreau	0.7
back shot (at Z 238)		men whose sames have	•	smoke, puff of (shown in	·. Ě Ť
		sat been determined		9 photos)	
Delies County Criminal	F-H 15	Man #1, source of lat	0 5	Stemmons Freeway sign	1 D B
Courts Bldg.		shot at Z 169		Decimons treesay ordu	• •
Dallas County Records Blog.	C-E 15	#pa #2	E 7	Toque (aho was hit in the	E 3
Online County Sheriff's	M 15	Man #3	ž į	face by a fragment of	
Office		H10. 64	ĒŤ	a shot)	
Dal-Tex Bldg.	A 15	Man #5, source of 6th shot	. 5 6		A 10-13
Oillerd 1	Ĉ iš	at Z 313		Texes School Book Depost-	W 10-13
Dorman, Mrs.	Ăij	. Mas #6, eff sap is Del-Tex	see A 15	tory Bldg. et 411 Elm	
, m	~	Bldg, source of 2nd shot	966 W T/	St. (TSBO)	
Ela St.	# 1 to B 15	et Z 226 and 4th shet		TSBD, 6th floor easternmost	A 13
Elm St. extension	A-8 6-12	41 Z 285	•	window, from which Nerren	
	40. 400 K 15	No. 67		Commission alleged Lee	
Courts Bldg.	-b. see v 13	Man 48, source of 3rd shet	A 11	Osnald fired 3 shots	
gerece bldg. sext to	* A 8-10	at Z 238 and 5th shet at	A 11	Towner, J. 1	C 13
7580	W 0-10	Z 312		Towner, T. 1	C 13
gressy kaeil .	6 4 to C 10			Towner, T. 2	0 12
Access reserve	4 4 14 C 10	Ken with Unbrelle	D 8	•	
Hester(s)		Martin O	H 13	"Umbrella" Kan	D 8
	C 7	Martin 1	. 613	Willia 5, 6	D 11
Kill, Jean	. • F 9	Kartin 2	C 12	Zapruder (location of	0 7
Holland	H 2	material picked up by	K 6	Abraham Zaproder during	
Houston St.	A-K 13-14	Walthers and others		the entire coler movie	
Hudson and two friends	F 6	Moorman	9	· which he took)	
Hughes 1. 2	K 14	Muchaore 1	G 13		
Hughes 3	K 12	Buchnore 2	# 11		

An excellent example of the many things that combe learned even from a single photograph, is provided by Figure 10. This photograph was taken by a professional Associated Press photographer. James Aligems (Table 3. No. 57). This photograph was used by the warren Commission as Varborough Exhibit A. 101. XXI. pages 701-702. However, the Warren Commission stoff did not point out very much of the pertirect information contained in the photograph.

President Kennedy (#1) appears in the licousing 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 time; of the photograph is established by the positics 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 limousing appears in the Zaprudor film, it has been determined that this photo was snapped at exactly the same instant as Zaprudor's frame 250.

Since shots were fired at Z109, Z226, Z238 and Z2313, the Altgens photo was exposed 66 Zapruder frames eiter the first shot (3.6 seconds) and 50 frames refore the last shot (3.2 secs).

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

Some of the Secret Service men reacted slowly. The two ren on the right-hand running board of JFK's folicate 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 limousire and push Hrs. Kennedy back into the rearsect 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 saot, 3 seconds later, zoomed from the grassy sholl right over Jackson's helmet and struck JFK on the right side of his forchead. Jackson was never interciemed by anyone and seems to have completely disappeared from the Dallas police force shortly after the assassination.

Lymbon Johnson's secret service men, on the other hand, reacted very fast. Refus 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 (%) are wacant, proving that Youngblood did indeed do just what he said, in 3.6 seconds. Agent Eivett in Johnson's follow-up car can also be seen reacting quickly (%7) as he opens the left rear door, preparing to jump out.

the left rear door, preparing to jump out.
Governor Connelly had been hit at Z frame 238, about one second before the photo was taken. He can be seen with his face contorted, turned to his right (=5), and slumping toward the sill of the lineusine. Krs. Keandy had, by this time, turned to see her husband in pain, and grasped his elbow with her

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

Tals is not too surprising since Mrs. Lyndon B. Jeason (Lady Bird) (#10) is swilling at the crowds as if nothing had happened, even though her busband is lying on the floor next to her with Agent Young-bierd on top of him.

Pailteeten Hargia (#11) just to the left and reer of the Presidential liminusine doesn't seem to know asysteing is wrong, although he could be looking at Jrk. Later he was his in the face with blood and grey matter from the latel shot which came from the right from and drove the fleshy debrie of Kennedy's head back and to the left toward Hargis.

The only reason the Aligens photo appears as a Commission Exhibit is that some sharp-eyed critic neticed a man who looked just like Lee ilarvey Oswald stacking in the duorway 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 filly Lovelady, who was an associate of Oswald's at the building.

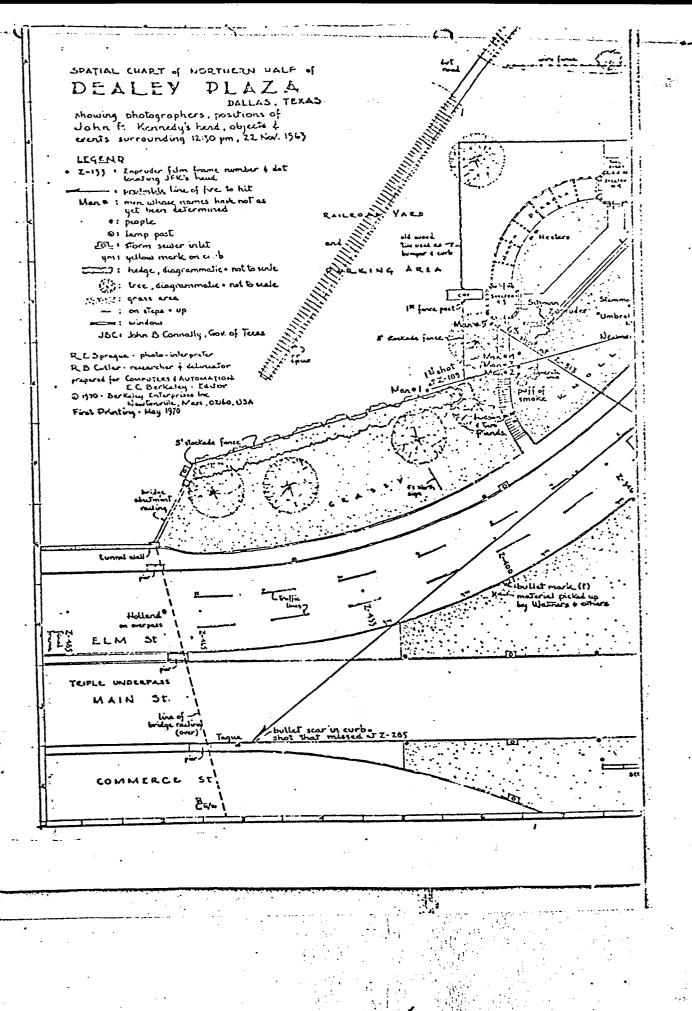
Four years later. I was able to prove that the harren Commission was right, by using several other pettographs in combination. Until then, the controversy still raged among Commission defenders and researchers.

Che 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. Last five seconds earlier in the liughes film sequence, he was sitting in a normal position. This max 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 happeared 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 roise 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 Cricans part of the conspiracy appears in the same vicinity (#16). Some researchers claim that he is being 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).



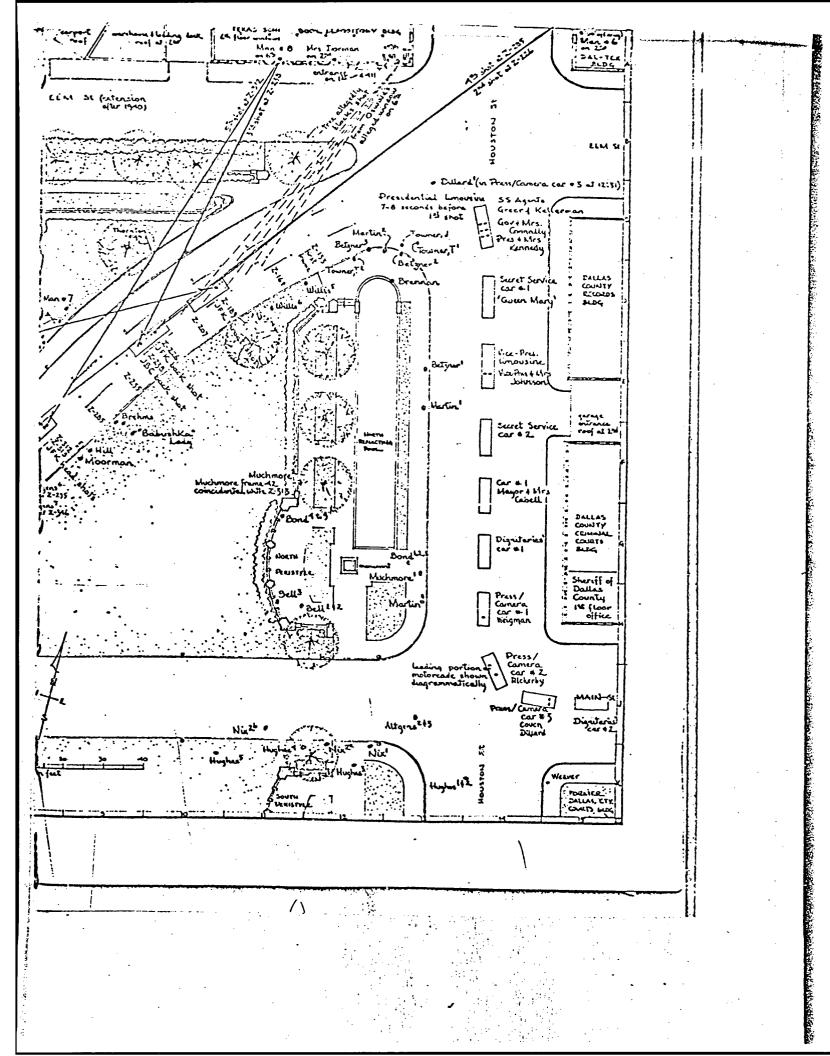


Table 2

Some interesting things happen when one orgins to analyze the many pictures taken by different photographers from different directions standing in different places, but all taken in the same imall 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 umprella", he is holding it closed. This is when the Kennedy car sounds the corner from Houston St. into Elm St. Aext he is holding it open and low over his head; the time is shortly before the first shot (see Fig. 9). Note that the weather is sunny, "slight breezes and gusts"; it is a sunny November day in Dallas; the time is noon; the temperature is 63° Fahrenheat, and there is no ordinary reason at all for holding an open black unbrella over one's head. The rein 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 on open urbrella. Next, he raises the urbrellu. 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 18ter, we have three pictures of him, still standing in the same place, still holding the umbrella folded up. (Table 3, Nos. 40, 49, and 50) Wherea: 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. Ke can draw two tentative conclusions:

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

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

The Warren Commission did not see the "umbrella man" in the photographs, did not find him, did not interview him, and did not enter him in any of its records anywhere. Neither did the FOI nor the Dallas authorities. Again, one asks why? It was a reasonably simple matter for an amateur to find him in the photographs. Jos'ah 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 EMPORTANT PINTIGGRAPHS ACQUIRED BY THE

	IIM.	hem of fhotographer	Roll and Sequence	Subject	<u>Ii~</u>
\$1	<b>7</b> 6	Resy Woorwall	1.	TSIO cirth floor window, before Kennedy rounded the corner	10 to 15 sec. before should
93	£8	*(11(e	ii -	Fan arrested out- gice of the Del- Tex Beliding	within 20 min. after the shots
378	78	Felop		ISID sixth floor wisdow, with two men in the win- dow, reither of them Cowald	sbout 10 sq. for. 22, 1963
376	M8	Boboshka Locy		Navie of JFK pro- cession (free the ather side of the street free Zaproder)	about 10 to 17 sec. be- fore until 7 to 10 sec. efterwords
378	PB	James Pewell, Army Istelli- gosce, Dalles		7580	about the time of the shots
494	78	Similie	ı	TSID, chowing the girth floor win- dox empty except for box	between first and lest shets
495	PB	Similia	2	Kennedy further down on Elm St.	about 22 see, ofter the abets

To still photograph; H = morie; B = black and white

# The "Babushka Lady's" Movie \_

As mentioned above, the pictures show other persons also taking pictures. One of these other persons has been called the "Babushka lady" uccause 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 Horston 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 Uallas. After her movie was developed, Mrs. Beck talked about it to the Microit Free Press. Then the Detroit FBI attempted to find her. The information at present stops there. However, from observing similar actions of the FBI, one would suspect that they found her, obtained her movie, and either destroyed it or filed it away unavailable to researchers. (See Table 2.)

Until it can be confirmed that the "Babushka"

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

### Some Other Conclusions

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

. . .

- 1. About ten men are shown being arrested.
- 2. At least two other rifles are shown being found before Grauld's rifle was found.
- 3. "Oswald" is shown in two fake photographs with him holding a rifle. When Oswald was shown the photos he said. "That's my head but somebody clse's body." That Oswald was right in this case has been clearly demonstrated by Fred Newcomp, a Los Angeles researcher.
- Oswald did not shoot Officer J. U. Tippit
  of the Unlike police force; two other end
  did. Oswald was not mean the shooting site at the time.
- 5. Oswald's supposed discovery and arrest in the Texas Theatre, the worle theater where he went, was staged and prearranged.

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

(Text continued on page Ell

### Chort 2

SCHEMATIC TIMENS CHART OF PHOTOGRAPHS, MOVIES, AND EVENTS IN DOLLEY FLAZA AROUND 12130 PM NOVEMBER 22, 1963

Zapruder Frane Numbers Shown on Spetial Chart:			
Hatorende Location: Before Houston St.	JFK on Houston St.	JFK Post Crespass Campra Cars and Buses on Elm St.	Other Cars Past Overpass
Tim Scale: Kinutes	Seconds	Seconds Seconds	Minutes
Shots:  Jth behind "the" oak  tree as seen from  "the Uswald" window		Lu   1.1 9 NC   14   1   1   1   1   1   1   1   1	
Kindom empty (Hughes 654 Billard 1):		27 MC 3 MC.	
Photographers and Their Photographs			
Zepruder Nix	Nix 1	NIX 2A NIX 2B	
Nuchmore	Nuchmore 1	296 425  Muchanere 2 280 322	·
flughes	Neghes D Hugh		Hughes 4
, Marşîn Kar N j	in 0 N 64	Hartin 1 H 85 N 138	Martin 3
Bell .		Bell 1	
Altgens	Altgens 1-5	Altgens 1-6 Altgens 1-7	. • •
Moormen	Moores	1 Hoorman 2	;
Willis	A117ie 2	willis 4 Willis 5 . Willis 6 Willis 7	
Weignsa		Weignes (Nith Breeks)	
Rickerby		Rickerby 1 G 2 Couch 1 2 3 4 5 6 7	
Bond	Bond 11 2 3		nad 6 7 8 9
Dormen		Cornes	ļ
Olllerd		Dillard 1	
Heavet .		Keover	1

Table 3

MAIN LIST OF OVER SOO PHOTOGRAPHS AND OVER 75 PHOTOGRAPHERS

Photo Xo. Type	Protographer home G ho.	Seq. Photo Shows	Fhc Ma.	to Tyre	Photographer Hame G Me.	Seq. No.	Photo Shows :
1 HC 2 HC 3 HC	Paproder.1	1 JFK on Fin-Houston St. to Overpres 1 JFK on Houston St. before shots 24 JFK on tim St. just before, during G after	49	LQ LU	Altoese	7-1	TSIM from same position 5:14 PM TSIM from center of piece 5:07 PM Clock shows
4 16	•	head shot 25 Gressy knott and cars on Elm just after		ra rb	-	3-9	TSIN from conter of place TSIN from conter of place TSIN from conter of place
5 K	Auchmore, 3	head shot  1 JFK on Houston St.	73	£D	•	3-11	Thus from traine of place
6 K	•	2 JFK on fin just before, during G efter head shot	74 75	70 28	:	3-12	This from center of place Triple overpass from same position se
7 10	Hephes,4	O Jik on Houston from Kein St. 2/3 of sey to		en.	•		Altgens 1-6 Triple overpass from same constitue
. 8 ×c	•	tim  1 JFK on Houston G Eim G 7500 6th floor win-	77	ra	•	4-12	Triple overpass from tame position
9 140	•	dow cupty 2 Comera cars on licuston St Nes on Gal	78	PB	•	4-16	TSMS 5:16 PM from same position as Altgens 1-6 Clock shows
	_	Yex fire escape, sitting	79	£8	•	4-17	TSID 5:16 PM from same position as Altgens 1-6 Cleck stors
10 °¥€	-	3 Grassy knoll after abola 4 Grassy knoll after abola	60	ra	•	4-16	TSNO Scile PM from same position as
13 40	•	S County Courts Bldg., Dal Tex & Main &	D1	rc	¥11111.11	1	Altgens loc Clock shows Jik on Main St.
13 m;	•	6 Parking int	62	1°C		2	Jik on Houston St.
14 4r) 15 40)	•	7 Plaza looking south from ercade O Farking tot		77		3	Jik on Houston St. Jik on front of 1560
16 K		4 TSAN Nidg top		21	• •	5	Jik efter first snot
17 MC		10 TSNB Boomeny & Del Tex 0°23FK on Houston St. (from DCA File)		100	•	7	Ein St. G grassy knożi ofter snots Lim St. G grassy knożi ofter snots
19 M	•	) DK in front of TSNO Bldg. 24 Grassy knoll G Elm St. ofter shole	66	PC	:	6	TSH) Doorwey Houston St. looking N. from Elm. TSDD G
21 40	•	28 Grassy knott G Elm St. after shots	-		_	•	nat Tex
22 WO		5 Farking Lot 4 Cap on Kotarcycle with Angro	90	ıc	-	10	TSIN front - Doorway & S costera windows - Arrest and possible rifle
24 HC	•	5 B. Lovelady in Front of TSND 6 C. Brcha Interviewed on Elm St.	91 92	LC C	-	11 12	Houston St. looking worth from Eim St. TSHD (all of it! from Houston & Heim
25 HC	•	7 Yiew harth on Houston from Ein	93	rc	-	13	Man arrested outside Del Tex Bidg.
27 ×0 26 ×0		6 Virw North on Houston & TSRO documer 9 Front of TSRO - Cops with shotgues	94 95	23	<u>.</u> .	14 15	Nhite station wayon on Elm about 12:45 Scenes pround TSiw
29 NC		10 Del Tex Bldg - Cop with shotque - Police	96 97	₽C.	:	36. 17	Scenes around TSBD Scenes around TSBD
30 HC	Mentesass, 6	Cars O L. Florer under arrest at Housten & Eim	98	PC PC	•	10	Scenes around TSCO
31 MC	•	1 Top of 7500 - 2 ceps on Teh floor fire os-	100	F3	Segseer.12	1 2	JFK on Houston JFK in front of TSGO
32 40	•	2 Houston St. between TSMG and Del Tex - Hille being expelled	101		Bothun, 13	3	JFK on Elm sher, time of first shot JFK near Love Field
33 HC		1 JFK on Houston St.	103	63	2	2	JFK on Main approaching Houston
34 RC 35 RC		2 JFK in front of TSIO 3 JFK approaching triple overpose on Elm St.	104 105	78 73	:	3	Lead motorcycles approaching Houston JFK rounding corner Main 3 houston
36 MC	•	4 Grassy knoli area just after skets	106 107		AP Photog-	5	Arcade after shots Group of photos takes outside fackland
37 HC	•	5 Grassy knott area after shots 6 Center of Plata after shots			repher.14	-	liospitel
39 HC		7 Grassy knoli area 8 Flaza from Aldg. on south later in day	108	. PB	AP Photog- rapher.15	,1	Copy of Moorman 2 - Clearer thea published
4E KC	•	T Place from Bldg. on south later in day	. 104	PB	AP Photog-	1	Officers & newsmen inside TS80 at 6th
42 PC	-	1 Motorcycles rounding Houston G Main 2 JFK rounding Houston G Main	110	rs	rapher.16 AP Photog-	1	floor wintow Group of officials and Pickup truck on
44 PC		3 JFK on Houston 4 Grassy knoll G Elm St. after shets	_		raphes, 17		Stermons Freeway - TSED in background - Taken from moving car - 1:04 PM. Nov. 22
46 PC	•	5 Gressy kholl & Elm St. ofter shets		FB	=	2	Triple overpass from same car on west
47 79 40 FG	•	6 Grassy knoll G Eim St. after that: 7 Grassy knoll after shots	112		_	-	Closeup of overpass - 1:04 PM from car approaching
49 PC 50 PC		8 Gressy knoll after shots 9 Crassy knoll after shots	113	re	•	4	TSHD, Dal Tex. County Records Bldg. from moving car on Main St. near overpass -
Si PB			114	83		5	1:04 P4 TSGO, Dal Tex from cor on Main St
52 P8		2 Grassy knoll C JFK at time of bead shot 1-2 Lead Motorcycles in Motorcade on Main St.				Ī	1:05 PM Clock shows
53 FE 54 PE	Altgeme.10	1-2 Lead Motorcycles in Motorcade on Main St. 1-3 JFK approaching Houston St. on Main	115	76	•	.6	Grassy knoll G Triple everyess from car on Main St.
55 PE	•	1-4 JFK turning corner at Houston G Main 1-5 JFK halfway down Howston toward Elm	- 116	FB	•	7.	TSBD. Dal Tex from car on Main - 1:04 PM - Vicu of activity around corner of Elm
156 PE	•	1-6 JFK after first three shots G before fatal					C. Houston
. 58 PE		shot. Open window, fire escape, Del Tex 1-7 JFK approaching triple overpass. C. Hill			D. Miller, 16	1 1	JFK early in motorcode  JFK early in motorcode
		on car 1-8 Arcade G knoll from South of Elm after	117	78	•	3	JFK on Sternous Freeway - Possible man with rifle in background - Cornan sign
59 PE		shats					shows JFK's-C. Hill's foot sticking
60 PI		2-4 TSND 5:06 PN November 22 2-5 TSND 5:06 PN Clock shows	118	PB	Rickerby, 19	1	out of car (Life) Arcade & West Capela after shots
62 P	3 •	2-6 TSRO 5:00 PH Clock shows			,,,,,,		(3 people)
63 Pi	•	2-13 TSND from same position as Altgess 1-6 2-14 TSND from same position		PB	-	2	Arcade & Photographers taking pictures (Com 2)
65 P		2-15 TSOO from same position 5:16 Ph Clock shows 2-19 TSOO from same position 5:19 PM Clock shows	120	. 18	· 0111erd.20	1	TSIO 6th floor window from Com 3 (Delles Norning N)
67 6		3-30 TS00 from some position 5:19 PG		#6	•	2	TSED 6th floor window from Com 3
							<b>~</b> ⁻

			•	•						
	fte he. 1	le ej Type	thelographer have G he.	Srq. Mo.	Photo Shous	fhe No. 1	te Tyre	Photographer Name G No.	Seq.	Chete Shows
			0111474,20	3	Overpass & cames cars on Ela	107	£0	Wu. Alles.23	3-6	Larry Florer in Sheriff's office
	123 124	67	1 1.1-4 24	4	1:45 FM - Hand pointing to bullet mark		£O	-		Larry Florer in Sheriff's office
	•••	10	1. mu.si	1	(Dallas Horning News) Scene at Parkland Hespital	100	60 61	-		Larry Florer in Sheriff's office Larry Florer in Sheriff's office
	152	ra	•	2	Il contact prints of TSO late on Novcober	191		•	3-10	Larry Florer in Sheriff's affice
	124	**	•		<del>"</del>		ra ra	:		TSD from a distance. TSD from closeup
	127		•		Il contact prints of Fortions sespital G contact prints of Folice election	194		•		Two cops in Tidy decreey
	150	La	• '		16 contact prints of scenes eround fark-	132	PB	•	3-14	There "tranps" from R.R. yards in front
	129	£B	J. Beers, 22	1	final despital final Lt. Reatgemery cor-	196	f-A		3-15	of TSM. Tarce "tramps" on Houston St.
	•••		** ******	٠	tring large paper bag	177		•	3-16	Taree "trangs" being led towards she-
	130		•		Lt. Kontgowery with bag			•		eiff's office Bullet mark on curb
	131		•		Lt. Johnson carrying Dr. Pepper bottle Boxes inside TSW bin floor winter	124	FB	•		Bullet work an earn
	133	ra	•		W.E. Berectt G J.M. Smith (cops)		FB	•	4-4	Lt. Honigovery with boy G Lt. Johnson
	134		:		Larry Flavor on Houston St. Area where Oswald's rifle found	501	FB	-	4-5	Et. Montgevery with bag G Lt. Jelassa
		LB	•		Area where Oswald's rifte found		•	٠.		with bottle
	121	ra	•	9	Two ren in police cor - one segre, one	503 505	ea ea	:		Lt. Johnson with bottle G lunch seck Lt. Johnson with bottle G tunch seck
	130	ra.	•	10	Cuben Store man being led from TSDD by cube		rB	•		Dones inside bin floor wiese
	124	Lu	•		Three tramps being led away from TSGO		C B	•		Doors inside 6th finor winime
	140 141		:		Three troops being led owny from TSAD	200	LB EG	•		fixed faside 6th floor window View down fin from 6th floor window
	•••	•••		• •	Rifle being carried away from TSOD by Lt. Day	509	rB	•	4-14	View down Elm from 6th floor minion
	142	rB	•	14	Fifte being carried may from TSOD by it.	500	A.	•		View down Elm from 6th floor window Rear bumper of car
	143	PA	•	15	Day Rifle being carried amon from TSDD by LL.	210	rs	•		Cop in front of TSNO 6 group
					Pay	212		:		Group is front of TSND
	144		<u>.</u> .		Two ledies C toy leaving TS80 View from 6th floor window - hov. 22 FM	213				Cops in TSRD doorway Police cars and crowd behind TSRD (north)
	146		•		Osmaid arrival at Police Station	215	rn	•	5-6	Calson) Colf touted brong ten eras spiles
	117		:	19	Cop with skotyun troking up at TSOO	216		:		Police errs and ground behind TNA (north) Angre & Latin was under arrest on Ela St.
	140		-	20 21	Group around TSM 014 unite naired man led away from TSM	210		•		hegen & Latin man climbing in police car
	130	LB	•	22	Scene around & Inside TSM - view of east	2:9	re	:	5-10	begro & Latin man in police car
					side of invites	220				Lt. hay corrying rifle out of TSG Lt. hay carrying rifle toward Houston &
	151 152	ro ro	•	24	TSINI from point on Newston  3 boxes stacked up at TSRO 6th floor wis-	***			<i>-</i>	Ela
			•		Ge-	222	PB	•	5-13	Et. Day carrying rifle toward Noveten G
	153	ro ro	-	25 26	Scene around G Inside TSID Scene around G Inside TSID	223	re	•	5-14	Lt. Day carrying rifle approaching cor-
	155	FB	•	27	Scene around G faside TSIO					ner
	157		•	20	Scene around G Inside TSRD Scene around G Inside TSRD	224		-		tt. Day corrying rifle crossing Horston tt. Day corrying rifle clossing hossion
	158		-		Scene around G Inside TSNO	226		•		Lt. Day corrying rifle in front of Dal
	159		•	31		227	PA	•	5-18	Tex Lt. Day corrying rifle in front of Doi .
	161		•		Scene around G Inside TSBD					Tex
	162	PB	Wm. Allen, 23	1-3	(Dallas Times Herald) 12-39 PH Walthers and	228	78 78			Two women and man leaving a house. Two women and man getting in police car
•					second official picking up something from ground					- Another photographer shows
	163	FB	•	1-4	12:40 FM (Hertz block shows) Walthers and	230	PB	•	6-5	Two words and man getting in police car - Another photographer shows
					group scar spot where something picked up - South of Elw scar inlet	231	69	•	6-6	Two words and man in police car - An-
	164		•	1-5	12:41 PH Grassy knot! from center of plosa			_		other photographer shows
	165	68	•	1-6	Group scar foot of steps on Ein - TSAO G Dai Tex in background - C. Brehm being	232	£0	-	0-7	Two women and man arriving at police station
			_		Interviewed 12:42 FM	233	76	•	6-4	Two wones and man arriving at police
	166	PB	•	1-7	Group near foot of steps on Ela - Grassy habil in background - C. Brehm being	234	28	•	4-9	station Two words and man in police waiting room
<b>-</b> •.		-			interviewed 12:42 FM			J.McAuley,24		(Ft. Worth Star Telegram) Has arrested
	267	85	•	1-8	Group acar foot of steps on Elm - Conter of	236			2	in Ft. Worth mear police cor Man mear car in Ft. Worth - Nov. 22 PM
	168	<b>78</b>	•	1-15	pizze in background 12:42 PK Cop with shotgun - Del Tex in background -			-	3	Nam being led away from car
					Elm & Houston 12:43 FM	238	£0	M.Cabluck, 25	1	(Ft. worth Star Telegram) Spot where
	169	78	-	1-16	Cop with shotgun - View cast on Elm from Houston 12:44 TM	239	81	•	2	builet hit grass Spot where builet hit gross
	170	. 78	•	1-17	(around 12:45 FM) TSTO from south of Elm on	240	£0	•	3	Spot where Lullet hit gross
	171	PA	•	1-14	Houston. TSND from south of Elm on Houston (closer	241 242	78 89	•	4 5	Spot where builet hit grass Parkland Hospital - Hany people in Cront
		, 70			vice)		£B	•	6	Parkland Hospital - Many people in front
•	172	28	• .	1-19	Creed held back - Corner Elm & Houston out-		PB P3	1 Cablush M	. 7	Parkland Hospital - Hany people in Iront (Ft. Worth Star Telegram) Desicy Ploss
	173	PB		1-20	side County Records Bidg. Dai Yex. cops with skotguns from corner	243		J.Cablack.26		from Helicopter late afteracon - Gov. 22
					Elm G Heuston	546	75	•	2	Helicopter view of Dealey Flaza from east
	174	PB .		2-3	Cops G crowds in front of Dal Tex fire escape - Nontesana in photo	247	PB	•	3	of Dal Tex Helicopter view of Dealey Plaza from most
	175		• 1		Cop with shotgum in front of Dal Tex			_		of overpass
•	176	PB PB			6th floor window - Man measuring cortons 6th floor window - Man measuring cortons		PB PB	•	5	Parkland Hospital, JFK car Parkland Hospital, other cars
	178	78		2-7	6th floor window - Man meesuring cartens	250	PB		6	View of Railroad tracks from 7500
	179		•		Cops checking cors lised up to leave park-	251	28	G. Saith, 27	ı	(Ft. Worth Ster Telegrom) Three mem from R.R. trocks im front of TSGO mader
	160	81	•	2-14	ing lot 12:54 PM 12:55 PM Sheriff waving out of 6th floor					errest
	•				window next to "the" window	252	PB	•	2	Three men from R.R. trecks in front TS80
	161		:		"Assessies" window 12:SS FN Cops with shotguns - Oel Yex is	253	PB	•	· 3	under errest Lt. Montgomery with beg
			_		background (looks like Merray 2-15)	254	LU		4	Lt. Heatgomery with hing Lt. Johnson with such and bettle
	104		:		larry floror being Crisked Larry floror close up		rn rs	:	. 3	LL. Johnson with sock and bottle
	105	70	•	2-19	"Accaseins" window	257	75		7	M corner 6th floor TND Incide
	196	re	•	3-5	1:00 PM Larry Florer in Sheriff's effice	236	78	W.Devis.28	1	(ft. Worth Star Telegram) Photographors in camera der CAN 2 early metercade

1	Foot lo. I	,,,•	Phetograpi Name G No	der Seq b. No.	. Photo Shows	FAO No.	te Type		Seq.	Photo Sinus
;	259	ra	Weignen, 25	, 1	Scene on Ein, gressy taoli, TS00 doorway	218	FO	Harrey, 30	2-24	Cops better hal Tex Bldg Houston St.
	165		- Merrey.30	۰ 2	from CA4 1 Normans on ground - Cong 1 G 2 on Elm St. Nilank	3;9	to	· (Murray west		size 1 60. Group to from of Dal Tex - Closeup 1:00 oun to buy film?
	%3 %3			1-2	Blank	320		•	2-20	Parity pasce dematema 1:24
					Elm 6 Houston 6 Del Tex from in front of TSNO 12:33	322	Fil	•	5-54	Barty place downtown \$:24 Barty place downtown \$ 25
	244 245			1-4	Parking Lot - North section 12:34	323		:		Lurry rivers in Sheriff's office 1:30 Lurry Finers in Sheriff's office 1:30
	3.70	Fð	•	1-4	Porking Lot - South section 12:34 .	222	ŧü	:	3-2	Group extride that Tex 12:56
	267	FB	•	1-7	Elm St. fat From west end looking cast 12:34	326	LO	•	3-3	Front of TSID & film 5t. Ext. looking
		LB LB	-		Center of Plaza from knott 12:35		ra	-		Vice seets on Houston from Eim 12:57 Vice touth an Houston from Eim 12:57
			_		Closeup of large group on north curb of 1.1m 12:35	323	ra		3-6	In Speciff's office 1:66
	3:0	PO	•	1-10	Cinscup of couple on north side Elm St. — TSOD im background 12:36	3.10 3.10		•		la Servill's office 1:06 la meriff's office 1:06
	271	PB	•	1-11	Long shot facing overpass from steps on film 12:37	333	rn B1	:		In Servill's office 1:00.  Hery Knorman using phone in Sheriff's
	272		•		Arcade & knott from center of Plaze 12:38			•		office 1:06
	273	P8	•	1-13	Folice examine spot on ground - Herts clock shows the time 12:39		ta aa	:		Fire across Plaza from Houston 1:07 Bar on Jouston St South of Hela 1:12
	274	PB	•	1-14	Same as 13 - South Elm arer sever outlet	335 337		•	3-13	Her co houston St South of Hain 1:12
	275	<b>7</b> 8	•	1-15	- Walthers lighting elgerate 12:39  Walthers picking up something from				2-14	Cat driver downtown where Marray bought file 1:23
	276	PB	-	1-16	ground 12-39  Weith: holding something in his hand		rn n	:		in Secriff's office 1:30 User; ass from tim G Housean
					12:39	3:3	Pa	:	4-5	Cuerrass from tim & tinuston
	277	PB	_	1-11	Another official touching spot on ground 12:40	341		•		Overpass from Elm & Invistor This west end - Top floor
	270	P3	• .	1-16	Police standing eround spot on ground 12:40	313		:		This east end - All flaors linustes & Els activity
	274	70	•	1-19	Police picking up other objects from two	315	CO.	•	4-10	Reustee & Elm activity
	260	PB	•	1-20	spots - Clock shows the time 12:40  TS(W) Plaza G kaoli from Commerce St	343		•	4-12	Houses G Elm activity Houses G Elm activity
	26:	อร	•	1-21	Front doorway guarded by two cops 12:41 TSED Plaza G knoll from Commerce St.12:41	348	LB	•	4-13	Houston & Elm activity - Possible ar-
	262	aa		1-22	Front door of TSW from south of Elm 12:42	3:9	ro	•		TSN tast end - Top floors
	263 264		-		Front door of TSM from south of Elm 12:42 Front door of TSM - Claseup 12:42	320	ra Fa	-		TS is fast end - Top floors TS is fast end - Top floors
	265 236		:	1-25	Front door of TSBO - Closeup 12:43	223		:		TNO Fast end - Top floors - Clock shows TNO East end - Top floors
			_		Negro boy in police car - Front of TSRO 12:43	354	CO	•	4-19	150 East ent - Top Goors
	207	FB	•	1-27	Front door TSOD - Claseup - Walthers in doorway 12:43	355 356		i		TSG East end - Top floors TSG Fast end - Top floors
	286	78	•	1-26	View east on Elm St. from Houston G Elm 'Dal Tex G County Records Bidg, 12:43	357 358		Atkins.31	1 2	hromass on the ground hromass on the ground
		78	:		County Records Bldg Nr Corner 12:43	359	PB	Coocellare, 3	_	hermans og ground - heignan. Craven.
	290	78	-	1-30	• View north on Houseon from south side of Elm St. 12:44	360	PB	, •	2	Altgens <sup>2</sup> Newmans on ground - Closeup
	292 292	P8 <b>P</b> 8	:		TSNO from Houston & Main 12:44 TSNO fromt & doorway from Houston & Elm	361 362	PB PB			Perison lot Place & Elm St. Grow knot!
	293				12:45		PB	•	\$	Crows on north side of Elm from boots - Cabushka Lady appears
		-	_		TSDD front G doorway from Houston G Elm 12:45	364	.PB	•	•	Crowd on Overpass watching JFK going
	294 295		÷	1-35	TSNO doorway - Crowd in front 12:45 Cop with shotgun - Dal Tex Bidg. in back-	365	PB	UP1. 33	1	Out Stemmons Freeway Lt. Montgomery carrying paper bag out
,	196	PA.	٠.		ground 12:45 View north on Houston from Elm St. 12:45	366	FO	OPI. 34		of TSIO Officers in front of TSIO
:	797	P8		2-1	View of overpass from Elm 12:40	367				Copy of um. Allen 1-3 with caption
•	78	PB	4	. 12-4	Crowd on Elm C eastern Cupole from south on Elm 12:40					reading: "Dallos police search ground for bullet believed to have lodged in
. :	299	ro	• :	2-5	TSRO front door - Reporter tape recording interview with Brennan 12:42	368	re	Ur1, 35	4	the carth" Negre girl Crying outside Parkland
- 3	000		•		TSND front door 12:42	369			_	hespital
	105 101	PB <b>PB</b>			TSMD front door 12:42  Welthers being interviewed in front of				9	Note Girl Crying outside Parkland Nospital
	103	PR	• '	. :	TSBD 12:45 Welthers being interviewed in front of	370	PB PB	Stoughton, 36 Berrows, 37	1	Not sure he took anything Cum 2 Camera cars on Houston St. from Cam 2
	304			•	TSID 12:45	372		•		(AP) Comera care on Houston St. from Com 2
			•		Policeman on 6th floor yelling out win- dow 6 pointing to 6th floor window 12:55	373	MC	Dormen, 38	î	Jik on Houston - Glimpses on him before
:	105	PB	•	2-11	Pelicenan on 6th floor yelling out win- dow 6 pointing to 6th floor window 12:55	374	MC	-	2	, shots More glimpses on Houston after shots
. :	306	81	•	2-12	Three ledies on top floor fire excepe landing of Del Tex 12:56	375	PC	Unidentified Photog.(Fole	.39 1	TSD es A4 of Nov. 22 - 6th floor wis-
٠ :	307	PB	•	2-13	Cops with shotgums in front of Del Tex	376	MC	Krs. Beck.40		Not sure film exists - Takes Curing
:	308 -	78	••	2-14	12:56 Ceps with shotgums im fromt of Oel Tex	377	PB	Weaver, 41		shots TSO 6th floor window before first shot
	309		•		12:56 Cops with shotgums in front of Dal Tex	378 379	28 28	Powell, 42		Cassot find him
•.					12:56			Yelklead,43		JR on Stemmons Freeway - Back of TSBO G Parking lot
	310	PB	-	. 2-16	Cops with shotguns in front of Dal Tex 12:56	380	PC	NacCeamon,44	1	Group of police interrogating am old acgre outside TSCO
	311	8		2-17	Larry Florer being interviewed in Sheriffs office 1:06	381	PC	•	2	Group of police interrogating as old acgre outside TSOO
	312	PB	, <b>-</b> *	; 2-16	Larry Florer being interviewed in Sheriff's	362	PC	-	3	Scene in Denicy Plaza
:	313		<b>;-</b>	2-19		363 384		:	4	Scene in Dealey Place Scene at Tippitt shooting
	314 315			2-20	Larry Florer 1:06	385 386	24	•	6	Scene at Tippitt shooting Openid in Texas Theatre just before
									•	
	316	78 P0		2-22	Larry Florer 1:06	387		•	_	errest
		78 70		2-22 2-22	<ul> <li>Larry Flerer 1:06</li> <li>Cope beside Del Tex 81dg Rouston St. side 1:08</li> </ul>	367		•	•	

Pac	140 Typ	ejfaelogrepher e namo G Ne.	Seq.	Frate Shore	Fho No.		ejPhotographer 4 Namo G No.		Photo Showa
300	72	Jecksen.45	ŧ	(Times terraid) facto of cars on theaten	435	τ	H. Couch,49	4	Con with revolver drove - South of the
309	*	A.J.L"Heste.	66 1	St. Station billa-TV (AIV) Photographer - Cop carrying section toward TMV	436	T	-	5	Brrom. Babusha Lasy, Summers, Hell. Hoorman, Tague South of Elm - Sweeping even to overpass
370	T	. •	2	Dreamy Breams, Cop with statum extelds	437	7	•	6	Photographers on small - ficumans on provide
391 392		-	3	TSIO donress erar same time as killis 10 6th floor winter from unterseath	436	Ţ	•	7	Reginos trying to jump cycle over curb sorth of the - vermen & Concellars
343 344			5	Larry Florer led toward Housen & Ele berker being leteraleued in front of TSOO	439	T		A	running to catco CAN I Crowl on botth side of Ein - Toten from
395				Four cens with shotguns - Dal Tex in background	440				Arcade Crowl on horth side of Ein - Taken from
3%	7	•	6	Larry florer being led dema Houstea St. m. 3 other photographers about up	441				tiousion G fim Growt on North side of Eim - Taken from
261		•		Larry Florer poing into garage extrance of Sheriff's Ging.	***	•			car driving on the (All of above are taken prior to ad 35 fM - her. 22)
399		:	11	Pos cops leading argre witness into TSOD for by the own placed in police car in	442		•	_	TSSO bin floor wieter taside - Cops Inching out
400 401	•	:		fruit of TSIO  Sion two are driving down file St.  Moniton G segro ied to police car on file  St.	443	٠.	. <del>"</del>	12	TS'0) from center of Plaza - Zoons in an 5th floor minion - fans down to kryll - Then to cereer of Houston & Elm & back to overgass - faceutive train
402	T	-	14	Same two being placed in car - Amethor photographer	444		•	13	morting no everytes. Areade with several people to it
403	7	T. Alyes, 47	1	(RFACTY ACC) liew of Place G hash from Houston G Heim - crowd meeting toward knoth	445		•		BFAA Communitar same refle & telescopie right similer to Greald's lying in Plaza grass - Sommittates bolt action
404		: :		Scene outside TSW Scene outside TSW	446 447		•		Cector of Pioza from Anoll Copola, Zapeusce's position & accode (So-
406 407	T	•		Scene outside 75%	•••	•		••	quences \$1 to 15 above were taken bew ture: 3 und 4 fm - Nov. 221
408	*	•		Police scatching through bit fless Police locking out 6th fleor on Heaston St.	448	T	D. C++k.50	1	(AliT-Channel It Fort Worth) Jik on Main and tounting counce liouston & Main - laken from in front of Sheriff's office
410 411		. :		Cop sticks from our toward Elm St. Area showing luckh sack G Dr. Pepper	469	T	. •	2	Cop with drawn revolver 6 crowd on Elm less than two nivetes after fatal anot
412	т	•	10	bottle Rifle on 6th floor of TSDD - In hiding	450 451		:		Activity is parking lot Locking east on Eim St. Ext. toward TS80
413	T	•		pince - Sheriffs G police exemine spot Closeup of rifle pesed for photo - Sight	452 453	T	:	5	In front of TSW Inside TSW - Least floor
414		•		visible Pelicenam helds rifle up - Second cop	454 455	T	:	7	Isside TSDD - Sista floor Arrest G possible rafio (some as Willis
415		•		points at boit Group near boxes where rifle found -		T	٠.		10) Larry Florer errest
416		-		Newsmen toking notes Lt. Day dusting live shell for finger-	457 458	T	•	10	Scene of Plaza Scene in front of TSGD
417	-	•		prints. Sullet visible Sheriffs talking on 6th floor	458		•		Scree of knoll (All of above by Don Cook were taken prior to 1:30 PM - Nov. 24)
416		2.8e(2 and , 48		(MFAA-TV ADC) Frame Bidg. in Oak Cliff - Where assassin thought to be - New	460		7.Creves.51		(CBS) From CAN 1 Houston St. before the shots
	_		Ĺ	sacaking upon it - Could be library or temple	461		_		Knoll efter shets - Creven jumped out of CAM 1
419	T	-	2	Two police cars speeding along residen- tial street in Oak Cliff - Police go late old from building	462 463	T	:		Closeup of Newmans Arcade (2, 3, 4 above were taken within 2 minutes after fatal shot)
420	T	•	3	Cop holding op light grey jacket - Mear parking lot	464 465	1	Underwood, 5		(KRLP-CRS) TSRD sign over deemay Sixth floor winter from directly beneath
421	7	•	4	Men in thirt electes talking mean used to car lot	466	T	•		Cops with shotgess - Del Tex is back- ground
422	T		5	Several police cars G cops mear Tippitt - shooting site - Cop reas toward police car holding gun but	467	T	•	4	Cops with shotques - Oul Tex in back- ground - Police photographer leaving TSMD
423	T,	•	٠	Group gathered around Tippitt's car. Piece of paper or poster lying on dash-	468	-	•		Fire engine moving North to Elm on Hous- ton
-424	Ţ	• • .	7	board - No detail Cops examine Tippitt's billfold (accord- ing to Relland who is negreting) - Note	469 470		-		Cops with shetgers Fifth floor wincom TSBO from directly bo-
	i			ped inside - Cops point to it - Cop holding Tippitt's pistel beside his car	471	T	•	•	cep with shoughe G police official - Del
425	T	. •	6	Group around Tippitt shooting site (ever- exposed)	472	T	•	•	Tex in beckground Sixth floor winter from beneath - Pans
426 \	Ţ	•	•	Crowd around police car in besidess secution - It drives may with someone in back seat	473	_			down to view West on Elm St. Ext Several cops moving fast - Police car in center cop getting out
427 - 428	T	:		Police cars driving up to Texas Theatre Texas Theatre looking up at tower	474 475	T		11	Cop locking up at TSAD with shotgen Cop locking up at TSAD with shotgen
429		•		Texas Theatre - Cops going in - Cer pulls	476		•		Same cop looking up at County Records Bldg. Sereral mee going rate TSBD doorway
430	T	i •	13	Inside Texas Theatre - Very dark - Lights blinking - Cops hustle Oswald toward inside doorway	477	T	•	14	TS80 from Houston St Pans in on 6th floor window Several more nen ceing into TSRO doorway
. 431	T	•	14	Crowd gethered eround police cer outside Texas Theatre - Oswald inside in back seat - It drives away	479		•		Cop G two police efficials running feet from near TSRD doorway toward garage entrance of County Record Bidg.
432	T	M. Cooch, 49	1	(WFAA-TV ADC) In CAM 3 - Motorcode on Main St. approaching Houston St.	480 481		•	17	Fireman going into TSOD corrying ladder Arrest G possible rifle in front of TSOD
433	T	•	3	Front of TSID - Crowd on corts side of Elm as CAN 3 remais corner Houston G	462		. •		(some as Willis 10) Decker being interviewed in front of
434	Ŧ	<i>.</i>	2	EIM CAN 1. CAN 2. other photographers on	700	7			TSBD (shows in Gurrey) Fake secret service man G Roger Craig in
	•		-	haell - Novmens on ground - men with unbrelle folded - Officer Haygood ap-	481		2.Damelt #4		front of TSRO (shows in Merray) (MBAP-NBC) Ein St. octivity efter ho
,				proching sorth curb - Hargis Tuncing to cycle South of Elm St. as CAR 3 moves down Elm	483	•		•	jumped rut of CAN 3 - Loca then 1 min. after fotal shot

		, footographer have 6 ho.		Photo Shous	N.
4/14	τ.	J.Dernell,S4	2	In parking lot	54
107	7.	•	2	In fenal of That - Arrest of men on the	
406	T	•	. 4	In alth press come - Old Co. Court House - biteres interestus	
407	7	0.0-rns.55	1		5
41-6	7	•	2	Decker being interstraed in front of TSDO	
469	Y	ICELO.56	ì	(Pastographer unborunt Two men running in this work of fence toward old building a-	5
				may treet & shrubbery - Could be 11-	5
			•	brain or church in Oak Cliff where test- pect was believed to be hiding	s
470	w,	T. Towner, S?	1	Jix counting corner Houston & 1.14	
471		•	1	JFK rounding corner Houston & Elm	S
493	1.0	•	2	Canera care going down bin St.	
493	#C	P.Patchall.S	1 1	Jik going under overpass	
494		N.SImilas,60	1	JfK on Elm - TSiO to background	5
∢?5		•	2	If a on him - Georgess in back; ms	
440		D.Moornam,61	1	Jfk in car after thots (Sold to AP)	5
497	FB	J.hc=4mm.62	1	Jik on Stemone (Sold to AP)	
496	Pa	Lo.brosch.T	ı	Jik at time of fatal anot - two Grant says lioward had this photo - Not sure it exists	5
499	7	Unidentified Protector		Appears in two Allen 196	8
500	1	Bedushke Ledy,65		Could be Robushie tady - Appears in many pictures taken north and south of Elm - Probably took movie of fatel shot	

"lierend for Type of Photo: N - Hovie: P - Still Photo: T - Teleri-sion Footage: C - Color: W - Block G shite "Zacre are 10 other photographers" sequences in the DCA film in ad-

stiles to Martin & Mentesana

white to Martin C Mentersons

alter to Martin C Mentersons

lie" Aligens, Associated Press, recommered taking only three of
the photos he actually took in Dealey Flaza. He took seven at
the time of the metorrace and 21 more after 5 PM. The actual
roll and frame numbers on the negatives are given.

James Ketray used two comeras, one telefone and one wide angle.
The rolls as numbered elicenase between the two concress. Rolls
1,3 - Comera 1: Rolls 2.4. etc. - Concra 2. However, the indimidual photos do not alicenate. Concra 2. However, the indimidual photos do not alicenate. Concra 2. However, the indimidual photos do not alicenate. Concra 2. However, the indimidual photos do not alicenate. Concra 2. However, the indimidual photos do not alicenate. Concra 2. However, the indimidual photos do not alicenate. The photos on Rolls 2,4,6,0, and 10
therefore are intersperated with Rolls 1,3,5,7, and 9 on a more
or less random basis. Only the times listed indicate the true
sequence. The roll and photo numbers listed are those appearing
on the actual films. Only rolls i through 4 are listed here.
Rolls 5-10 were exposed either on Roy. 23 or later, or the night
of New. 22 in locations other than Dealey Flaza.

	No.	Type	See Che. No.	Photo Shows
	501	7	Luidentified	Appears in Markange &
	502	7	termentified	Actions in Martin 3
	503	1	Overpass Han, fill	Policemen says he see someone an overpess toking pictures
	504	7	Candentified	Bressen says he can her taking pictures
	505	1	Enteratified bosen,70	Approve in Altgens 1-4
	506	1	Consentified	Appears in Murrey of Houston G Elm
	507	1	Caldertified	Appears in Harrey 1-27, 1-23, 2-5, 2-6 ass 2-7 in ISSO doctory
	500	7	Crest.73	Not sure be tank anything - hes in Cil 2
	509	7	Caidcalified	Took Elm St. photo tefore notorcode ar-
	\$10	7	Criciatified Pastop.75	JFK early is motorcode. Jack Puby? 5 stripper? standing on curb
•	511	7	Catcentified Pasteg,76	Man taking movies from upper fivor of Ool Tex Didg. Sorrels took possession. See Sanjer Test. 60324
	812	1	Joe Scott.78	TSAD scenes - KALO photographer

In eastition there are four other Alack Sine photographers who tera pictures: Gene Daniela, Hatt Herren, Shel Herahorn and

Mr. Stulbe.

Cree Dakiels took a total of 260 black and white, 35 nm still phites during the hoseoper 22-24 period. A few of these were taken the afternoon and evening of hoseoper 22 and the rest on hoseoper 23 and 24. There are scenes at Desiry Plaza, 7510. Sheriff's office, Police station, Police prist conferences.

Canada's rooming house and room, Osmald's public appearances, and aimst of Elm St. from Dai Tex Ridg, through telescopic attal.

and sight.

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

Men with sign saying "S.O.B. Jack Kennedy" is standing on South carb of cim, facing position of man with wat.ella. This photo takes about I minute after shots. Could be a signal for suc-

derwood and Sanderson street the same concro. Underwood bor-zowed it from Sanderson shortly after about were fired, taen returned it. It is not certain which one took what acquences.

# Part 3. The Application of Computers to the Photographic Evidence

Correlation of the Evidence

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

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

Over 200 persons, objects, etc., are mentioned briefly in the simple short descriptions of the photographs in Table 3. As more photographs are studied, other persons and objects can be identified. The different items need to be identified by codes; a sample of the coding scheme that would be applicable is shown in Table 4.

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

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

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

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

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

# COMPUTER CODES FOR PERSONS AND OBJECTS IN THE PHOTOGRAPHS — PRELIG MARY LIST OF CODES

·	£2.L1	33.7		}	U-114	1805	
K. E. Berrott	102	man (unident.)	129	Garby place	371	library or church	307
ber	103	rea with sign	130	County Courts	302	eld belletog	20
C. Breba	104	Li. Wraigenery	132	Courty Records	303	Parkings Bornttal	200
Brennes	10%	motorcycle cop	13.1	0-1-7-6	394	police statton	1:0
COD CELTOF	196	hegen	134	frame buildings	305	Trees lerates	311
cop	100 .	frare girl	135	hove	306	TSINI (Texas School	212
2 cope	103	Aranins	134	1		foot importions	
Engs (officers)	110	nrusma (repertors)	137	Ī		• • • • • • • • • • • • • • • • • • • •	
coopie	111	efficials	מכו				
Roger Craig	112	eld fegra .	174	i			
Craves	113	L. Drueld	149	i			
Latin men (Mestern, Cubon)	114	propir (crowd)	141	1	Estione e	RG_EXCANA	
Li. Deg	115	tresediates.	142	i .	491		
liecher	116	Jeck Huby	143	arrest		interregating	4113
fate secret sarries man	117	sheriff(s)	144	Corryled	472	Seterview	4.0
firenan	116	J. W. Smith	145	checalog care	463	leastag	411
L. florer	114	Sorrels	144	climping	494	. Signing eigereite	4.2
flargerd (officer)	120	etripper	140	C17103	405	~ *******	4:3
Herals	121	Summers	149	dusting for flagorpriate	476	toje recording	414
Cisas Hill	122	Taget	150	Cnd +4+4,8	497	teirshaning	415
LL. Jonason	123	Tippit.	151	heed thet	400	werter	410
J.F. Kennedy	174	tremps	152	i		yelling .	417
ledies (women)	125	uonen (unident.)	133	1			
8. Levelogy	126	helthers	154				
PAR AFFEELPS	127	W-10-44	155	1 '			
men in thict sleaves	120	white-helped man	156	1	6514	ei.	
		<del></del>		back seek	501	live secit	522
	Regions 6	or Places		bilifold	y.:	ealercade .	523
				boves	5/13	estorogole(s)	524
arcade	291	h.w. corner 6th floor	218	builet	50.4	Pete 21d	525
area where Gumald's	202	TSin) bidg, foolde		bullet mark	505	peper bag (seck)	1.26
rifle found	****	Uak Cliff	219	(amera (cam)	506	101100 14 1500	527
bar en housten St.	203	present thrinto	220	Corero coro	101	piries truck	3.5
Connerce St.	205 -	erctbers)		COTA	500	police care	5.9
	205	parting lot	221	closrette	5-19	fere bumper	571
cerb	207	place	222	clece (ierts)	510	rifie	531
TSia decreey	208	police (welling room)	223	congressional car 42	511	sever outlet	532
east cupola	210	railroad trocks	224	Corres sign	512	1 hades	533
7th floor fire eacape	211	residential street	225	dest board	513	shet yea(s)	534
6th floor window of TSBO	211	cheriff's office	226	Dr. fepper bottle	514	SPLACECLA	533
Ft. Worth			227	feace	515	telescopic sight	
garage entrance of	213	spot where builet hit	221	fire engine	516		535
Sheriff's building		grass (bullet mark)	228		517	trees	537
grassy knoll	214	Steman Freemy		foot		webrella	538
Houston St.	215	sleps	229	G 54	518	unidentified object(a)	226
Lore Field	2:6	Tower	230	bood .	519	white stattes mages	540
Naim St.	217	used car let	231	J.F.K. car	520	wisdows	541
		west capels	232	light gray jacket	521		

. .

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

# Directions, Locations, and Timing

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

- the identification of the photographer who took the photograph;
- the location of the photographer when he took it:
- the direction in which he took the picture;
- the time when he took the picture
- the identity of the person doing the 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 and 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 "urray's photographs form an excellent time reference base at less than 30 second intervals for nearly an hour after the last shot, beginning at three minutes after the last shot (see Table 1). The period from the end of the Zapruder film (roughly ten seconds after the last shot) up to the first of Nurray's photos (about 3 minutes), is covered by several movies and TV sequences.

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

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

## Image Enhancement and Correlation

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

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

Field	Coding Intructions	Approx. No. of Character
A. Mentifications	•	
L. Photograph Number	Use photograph member in maje list	3
2. Type of photograph	Use M for movie, P for still photo, C for color, R for black and white, T for television footage	.2
3. Photographer	Cie photographer sunber in mein list	2
4. Sequence mumber	Use photograph sequence aumber in main list	5
5. Ferson who analyzed photograph	Use analyst identifying aumbor occording to a previously established key	. 2
B. Contents of the Photogr	rank:	
i. The tographers (hete) a picture may of course show either photographers taking pictures.)	Use photographer sumber. Previously, make as alph- abetic key to photograph- era from main list	0 to 12
2. Other persons (in the picture who are sot photographers)	Use person code in Table 4	0 to 12
3. Regions er ploces	Use place code in Table 4	3 to 12
4. Selidings	Use building number in Table 4	0 to 12
5. Events and actions	Use code in Table 4	3 to 12
6. Objects	Use code in Table 4	3 to 12
7. Place of the photo- graph	Use the gold shown in the map, letter first, then sumber	. 2
6. Tine	Use time code. Previously, adopt a scale of times: fractions of accords, labeled will Zapruder frame sumbers during the Zappruder movie requence showing the shoult them, seconds, minutes, and hours before and efter the Z sequence as may be eppropriate; them, days and dates	•
To Capsule summary of photograph	Use 10 to 30 words des- cibing the contents and importance of the photo- graph, according to specified rules for sum- marizing and examples	60 te 200
Approxi-	mate maximum number of total ors for one computer record:	200 to 300

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

However, if you desire to apply image enhancement with computer graphics, you find yourself with a two-edged sword, in this sense: If you know what you are looking for, then image enhancement can aid you. For example, it is easy to find where a circle is located if you know definitely that a circle is in the picture. But if you do not know what you are looking for, then it is easy to find and see things that are not there. For example, there are "experts" who can make people out of lushes, 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 Keacedy assassination, we have, however, a different situation. Suppose that four photographs taken at just the same time show a particular spot on the grassy small 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 anoke, for example).

# Objectives of the Computer Search of the Photographic Evidence

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

- 1. Can rifles be seen in firing positions?
- 2. Can the faces of the gunnen be seen?
- 3. According to the Warren Report, 56 witnesses (a majority) thought the shots came from a grassy knoll. Some of them saw a "puff of smoke" — do the photographs show a puff of smoke? (At least nine photographs do.)
- 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 comeras showed that they did? (One Dallas police officer testified that after the shots he ran up the grassy knoll. But he is shown in some of the photographs, and he did no such thing he just leaned against a lamp post.)
- 6. Can guaren 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?

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 assessimation of President Kennedy.

# Part 4. Appendices

# Acknowledgements and Notices

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

i.

siah Thompson, William Turner, and Harold Reisberg. 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 onission or commission or incomplete or inadequate analysis of some or the evidence. I would greatly appreciate any comments and corrections any reader may be kind enough to send me. All corrections will be published at a later date.

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

If any reader of this article desires to ask some specific questions in regaid to the assassinations of President John F. Kennedy, or Martin Luther King. Jr., or Senator Hobert Kennedy, about what has so it been found out by the researchers. Computers and Automation will make an effort to provide brief replies to these questions. Plense write to Computers and Automation, Att'n K. Olf Washington St., Newtonville. Kass. Olivo: and please enclose a self-addressed stamped envelope for each question, since the questions may be routed to different researchers for the answers. Unlike the Warren Commission, the researchers on not intend to disband immediately after issuing a set of conclusions, and to thereafter ignore all questions.

If any reader of <u>Computers and Automation</u> is interested in contributing computer programming or computer time or materials or funds to the investigation and efforts of the researchers in the NCTIA, he should write to Dernard 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 S5 from Cutler Designs, 30 Union St., Kanchester, Kass. 01944. If you desire the chart unfolded, please specify that it be shipped in a cardboard tube. As additional information becomes available, the large chart will be brought up to date.

### Epilogue

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

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

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

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

• Why did not Senstor Robert Kennedy do something about this? — It is sed 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 had 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 he attempt to assassinate fidel Castro resulted in some anti-Castro Cubans and others participating in organizing his assassination — some of the same people who had participated in the assassination of his brother. I do not know why Senator Robert headedy remained silent; why Senator Robert headedy remained silent; why they have both suppressed the autopay materials on President John F. Kennedy.

e No you think District Attorney Jim Garrison is a madman or a fool or insane? — No. I think that he is obsolutely some, and one of the objective Americans left, and that he has a great ceal of courage. He also suffered from underestinating the strength of the forces ranged against him. In addition, the CIA penetrated his case against Clay Shaw; they were even paying the langers of some of the people he arrested or attempted to suppoenda. 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 Distant, now in paperack.

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

 Did Lyndon B. Johnson know about the plans for the assassination of President John F. Kennedy in Dellas before it happened? — So far to substantial avidence has been found to show that he did.

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

 One of the things that anyone cam 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 as watainted Congressional committee of investigation, which will look into political assassinations in the United States.

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

4. It would be good to dismantie the Central Intelligence Agency — which President Kennedy before he was assessinated said he

woul of to do — and distribute its functions elsewhere, and in the mantime make it accountable for budgetary funds voted by Congress.

5. It would be good to expose J. Engar Honver, to call the attention of the public to his suppression of evidence and his failure to mark President Krancoy of the piot for assassinating him is Dallas, and to compel his resignation. The fBI know shout the plot well nhead of time — through Oswald's how. 20 phone call, and the Kiami police's

warning, at least. . What about an organization dealing with this sub-Ject? - There is one. As mentioned shore, a considerable amount of the new evidence comes from the work of a group of researchers, who have interviewed many witnesser, examined many documents, and studied many of the photographs. This group of researchers is loosely coordinated by the National Committee to Investigate Assassinations, which has an effice in Washington, D.C., and whose chairmed is Bernard Fensterwald. Jr. He is a mashington astorney who a few years ago was the head of the legal staff wasisting Senator Estes Kefauver in his investigation into organized crime. He was also Senator Edward Long's attorney in the administrative procedures sub-committee of the Government Operations Committec. The ACTIA 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. J.C.

• What about the mysterious deaths of witnesses?

— One of the researchers who is a rember of the committee is Penn Jones, Jr., Editor, <u>Violothian Mirror</u>. Midlothian, Texas, who has been compiling and publishing evidence for over six years. He maintains a list of witnesses who "knew too much" and who have died unexplained deaths. There have been over 50 deaths among this group (according to his definition of it) in the time since November 22, 1963; the chance that that number of deaths is due to matural causes is much less than one out of

a million millions.

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

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more clearly what is happening. There is hope.

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

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