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PLANNING INFORMATION SYSTEM

PART 1 TRANSPORTATION FACILITIES MANUAL



IOWA DEVELOPMENT COMMISSION DES MOINES, IOWA

IOWA STATE HIGHWAY COMMISSION AMES, IOWA

PLANNING INFORMATION SYSTEM

PART 1

TRANSPORTATION FACILITIES MANUAL

Prepared for the

IOWA DEVELOPMENT COMMISSION

and the

IOWA STATE HIGHWAY COMMISSION

By

HOWARD, NEEDLES, TAMMEN & BERGENDOFF

May, 1967

PLANNING INFORMATION SYSTEM Part 1 – Transportation Facilities Manual

The Transportation Facilities Manual provides a system of identifying and coding existing streets and highways and of recording data pertaining to these facilities. This manual, together with the other two documents may be used in connection with the preparation of comprehensive and special planning and urban research studies of all kinds. Particular emphasis was placed on the updating of collected information so that basic inventories pertaining to the planning process can be kept current without undue effort or cost.

PREPARED FOR:

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BY:

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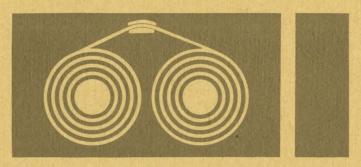
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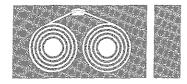
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PREFACE



PREFACE

The technology of maintaining and processing planning data has not progressed to the point that every particle of basic information can be maintained in one central file. For this reason, a total Planning Information System should be broken into clearly definable segments. The segments of the total Planning Information System proposed herein are as follows:

Part I - Transportation Facilities Manual

1. Street, Traffic and Transportation Facilities Inventory

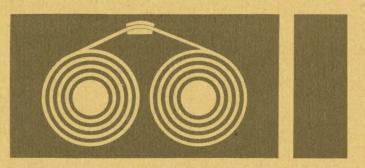
Part II - Planning Data File Manual

1. Land Use Inventory

Part III – Planning Information Manual

- 1. Community Facilities Inventory
- 2. Utilities Inventory
- 3. Economic Base Inventory
- 4. Population Inventory
- 5. Financial Capacity Inventory
- 6. Capital Improvements and Capital Budget Inventory

This manual covers Part I, Transportation Facilities, and provides procedures for a street, traffic and transportation facilities inventory. Parts II and III are covered in separate manuals.



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CONTENTS

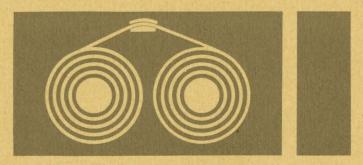
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GENERAL

GENERAL

The purpose of any file is the accumulation of data for future retrieval and reference in a number of different summary types. To identify any basic street and traffic data item it is necessary that a uniform system of identification be established.

A number of various systems have been developed, each with certain advantages and disadvantages. One system has been the identification of each route by a single number and the data along this route identified by stations beginning at some known point. A second system has been the identification of each segment of roadway, such as between intersections.

The system on which this data is collected is based on assigning a unique number to the ends of each roadway segment. This unique number would primarily be assigned to intersections or the end of dead-end streets or roads. Since at the beginning of any inventory it may not be possible to inventory every roadway segment between intersections, a segment may be identified by intersection numbers between major routes, ignoring the intermediate intersections until a later date. This feature is important as new areas are developed and additional intersections introduced.

Even if a complete inventory were completed initially, two occasions may warrant a consideration of an imaginary intersection number. This would be a jurisdiction limit, such as a city limit and the possibility of two roads splitting and returning without an intermediate intersection. If an intermediate intersection number were not introduced at this point, the roadway segment would have an identical identification number. Only one imaginary intersection number would be needed.

The smallest identification would thus be the intersection, and a roadway segment would be the combination of two intersection numbers. To differentiate these

segments from segments in any other part of the State of Iowa, a next higher range of identification is necessary. Since city boundaries are subject to change, the next major identification assigned has been the county. Thus the roadways, segments and intersections within any one county have an individual set of intersection numbers. To identify changes along each or any segment, a station number would be assigned. A "begin station" would always be the first number – intersection number recorded – and the "end station" would be the last intersection number recorded. A begin and end station should equal the section length. With this general identification assigned to each segment any data collected can be identified.

The relationship of the segment identification to the various categories of data is shown schematically on Figure 1. The segment identification is needed with each data item.

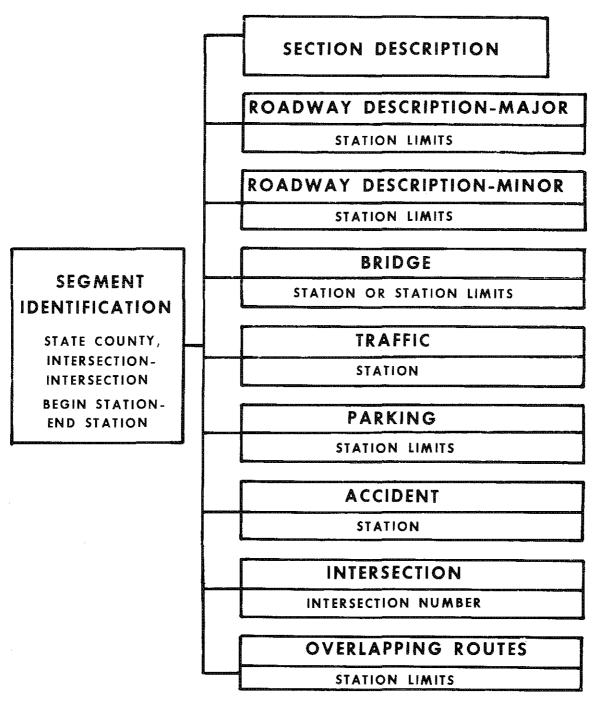
Those items considered basic to the Transportation Inventory are marked with an asterisk in the following sections. Two asterisks designate Needs Study items. The card formats are only suggested. A specific inventory may be expedited with different formats, depending upon the source of data.

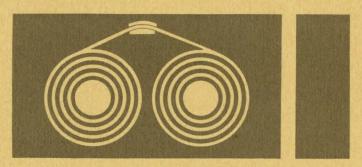
FIGURE 1

Sec. 14

Relationship of Segment Identification

to Data Items





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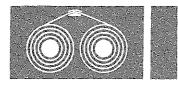
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IDENTIFICATION



IDENTIFICATION

B. IDENTIFICATION

*1. STATE

Use the Geographic Identification Code scheme of 1960 Census of Population and Housing, Iowa PHC (2)-17. The number is 42 for Iowa.

*2. COUNTY

Use the Geographic Identification Code scheme of 1960 Census of Population and Housing, Iowa PHC (2)-17.

*3. FIRST INTERSECTION REFERENCE NUMBER

Figure 2 shows an example of the method of numbering intersections within each County. This example shows only the major routes, but is applicable to any further expansion of the inventory to include lower classifications of roads and streets. A six-digit number is used to represent an intersection. The first two digits of the intersection number represent the geographical location within the county. This geographical location can be defined by arbitrary grid lines as shown in the example.

Each county could be divided by nine horizontal and nine vertical grid lines. The spaces between grid lines would be numbered as shown. The first digit of an intersection number would be determined by the two horizontal grid lines between which the intersection falls. Likewise the second digit will be determined by the vertical grid lines. Intersections falling between space number 2 of the horizontal grids and space number 1 between vertical grids will have the identifying number 210000. Each intersection within this area will then be numbered using the third and fourth digits. The fifth and sixth digits will be reserved for future expansion as additional intersections are added to the system. An example of coded intersections are: 210100, 210200, 210300, etc.

Grid lines need not be uniformly spaced. Grid lines passing through larger cities should be more closely spaced No. Spaces

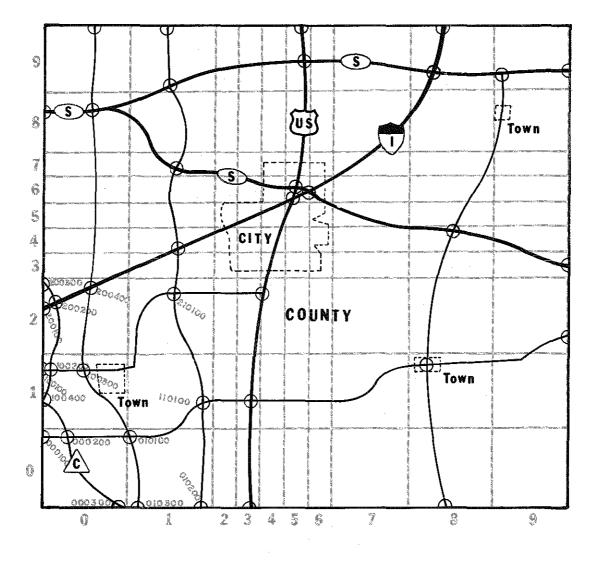
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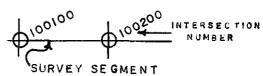
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FIGURE 2

EXAMPLE

INTERSECTION NUMBERING SYSTEM





B. IDENTIFICATION

because the potential number of intersections to be coded within an area may exceed the number of digits available. Spacing of grids should not exceed 1.5 miles in these areas.

As future streets are added they will also be coded into the system. As new intersections are added in existing roads and streets, then existing segments must be re defined and recoded in the file.

#4. SECOND INTERSECTION REFERENCE NUMBER

		See Item B-3 above.						
*5.	BEG	gin station - subsection control link	3					
	inte sec	Express station in miles to the nearest .01 mile. tioning for each segment will begin with 0.00 at the ersection with the lowest number and increase toward the ond intersection. Stations will be used to describe the its to which the various data items apply.						
*6.	ΕN	D STATION - SUBSECTION CONTROL LINK	3					
		See Item B-5 above.						
*7.	AD	DITION TYPE	1					
	Code							
	(1)	Addition – Use for new data which has not been previously coded.						
	(2)	Review – Use to check for the presence or absence of data in the computer record and to check for changes in a section .						
	(3)	Correction – Use when new data is to be substituted for data in the computer record.						
	(4)	Deletion – Use when data in the computer record is to be deleted.						

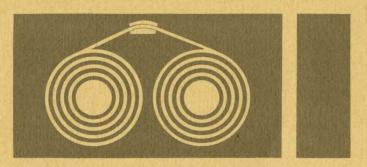
B. IDENTIFICATION

8. DATA CARD TYPE

Card No. See Figures 3 through 11.

- 1. Section Description
- 2. Roadway Data Major Items
- 3. Roadway Data Minor Items
- 4. Bridge Data
- 5. Traffic Data
- 6. Parking Data
- 7. Accident Data
- 8. Intersection Data
- 9. Overlapping Route Data

No. Spaces



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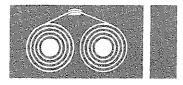
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SECTION DESCRIPTION



C. SECTION DESCRIPTION (Figure 3)

No. Spaces

3

3

2

1. CENSUS TRACT NUMBER

Refer to 1960 Census of Population and Housing, PHC (1).

*2. CITY or PLACE

Use the Geographic Identification Code scheme of 1960 Census of Population and Housing, Iowa PHC (2)-17. This system provides a unique number to each city or place within each county. To identify a city within the state both the County Code and the City or Place Code must be used.

*3. POPULATION CLASS

Use the Code for Place Size from the Geographic Code scheme of 1960 Census of Population and Housing, Iowa PHC (2)–17.

Code

0	Under 200
1	200 to 499
2	500 to 999
3	1,000 to 1,499
4	1,500 to 1,999
5	2,000 to 2,499
6	2,500 to 4,999
7	5,000 to 9,999
8	10,000 to 19,999
9	20,000 to 24,999
10	25,000 to 49,999
11	50,000 to 99,999
12	100,000 to 249,999
13	250,000 to 499,999
14	500,000 to 999,999
15	1,000,000 or more

FIGURE ω

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DEVELOPMENT

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DESCRIPTION

4 2 412 44.4 432 4 2 412 41.2 44.0 41% 1 W 442 of 12 A 42 STATE HOWARD. 5 KANSAS 3 4 1 COUNTY З¥. 5 6 7 8 9 10 CITY ALC: NO D NEEDLES 1.11.11 FIRST INTERSECTION REFERENCE NUMBER 065 TAMMEN 16 DENTIFICATION MOINES 6 i* 12 13 1+ 15 16 1.1.1.1.1 -14-11 T 4-4 ৰ প্ৰায় মান 1 SECOND INTERSECTION æ 20 BERGENDOFF REFERENCE NUMBER NEW VORK BEGIN STATION SUBSECTION CONTROL LINK 17 18 19 (NEAREST .01MILE) -20 21 22 23 END STATION SUBSECTION CONTROL LINK (NEAREST .01MILE) ADDITION TYPE 24 同門 DATA CARD TYPE 25 26 26 1 R 27 28 29 -0---1.10 1 1.1 1-1 CENSUS TRACT NUMBER . 30 31 32 1 30 -1 - 1CITY OR PLACE . 33 34 L POPULATION CLASS 2 F. 35 36 _ --4 5.88. 目前 ZONING PREDOMINANT LAND USE 2.00 . **梁**专 **9**8 A..... PREDOMINANT RDWY. SERVICE $\mathbf{h}_{\mathbf{k}}$. 1.5 l di 39 98 TERRAIN 100 C . **3** CLASSIFICATION 1 1 1 1 1 1 ~ 截 0 ø ACCESS CONTROL NUMBER PREFIX *** 能帶 5.0 周季 41 1 42 43 44 45 1.18 * ECTION **香**業 ***** -. ***** 18 s de la OUTE NUMBER 点》 高角 1 46 47 DESCRIPTION 2 12. NUMBER SUFFIX ** 1 × E\$ 1 DIRECTION PREFIX 1.5 . 48 49 50 51 52 53 54 55 54 57 58 59 60 -1 1.1.2.27.12.17.12.2.3 NAME STREET -1.1 6 5 F. 62 63 3.2 70 -* es ann an An All Ann 97. 2 NAME SUFFIX DIRECTION SUFFIX 2 (******* 1000 * 2 濂 * 0 S 👔 🕅 DATA STATUS 100 . 調 資源 18 A 3 DATE OF UPDATE 29 99 1 MONTH 111 24 E н F -1 ** 68 6 YEAR 65 69 70 MAIN. RESPONSIBILITY 14.48 5 M ** 1 7 ** . TATE 72 1.1.4 SECTION T. C Road To 73 1 1 1 1 1.1.1.1 CONTROL 74 1 14 1 2 94. 77 1 「「「」 78 1 1 1 1 1 . 79 8 1

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4. ZONING - Predominant to both sides

Code

- (1) Commercial
- (2) Residential
- (3) Heavy Industrial
- (4) Light Industrial
- (5) Park
- (6) Church or School
- (7) Agricultural
- (8) Unzoned
- (9) Other

PREDOMINANT LAND USE

If approximately, equal frontages of different land use types occur on a Control Section, use the code for the land use type which results in the most intensive use of the land and has the greatest effect upon use of the facility.

This code is the first digit of the Standard Land Use Code presented in the Standard Land Use Coding Manual, January 1965, by the Urban Renewal Administration of the Housing and Home Finance Agency (Housing and Urban Development) and the Bureau of Public Roads of the Department of Commerce. 2

Code

(1) RESIDENTIAL

Household Units Group Quarters Residential Hotels Mobile Home Parks or Courts Transient Lodgings Other Residential (not elsewhere coded)

(2) MANUFACTURING

Food and Kindred Products - Manufacturing
Textile Mill Products - Manufacturing
Apparel and other Finished Products made from Fabrics, Leather and similar Materials -Manufacturing
Lumber and Wood Products (except Furniture) -Manufacturing
Furniture and Fixtures - Manufacturing
Paper and Allied Products - Manufacturing
Printing, Publishing and Allied Industries
Chemicals and Allied Products - Manufacturing
Petroleum Refining and Related Industries

(3) MANUFACTURING (continued)

Rubber and Miscellaneous Plastic Products – Manufacturing Stone, Clay and Glass Products – Manufacturing Primary Metal Industries Fabricated Metal Products – Manufacturing Professional, Scientific and Controlling Instruments; Photographic and Optical Goods; Watches and Clocks – Manufacturing Miscellaneous Manufacturing (not elsewhere coded)

(4) TRANSPORTATION, COMMUNICATION AND UTILITIES

Railroad, Rapid Rail Transit and Street Railway Transportation Motor Vehicle Transportation Aircraft Transportation Marine Craft Transportation Highway and Street Right-of-Way Automobile Parking Communication Utilities Other Transportation, Communication and Utilities (not elsewhere coded)

(5) TRADE

Wholesale Trade
Retail Trade - Building Materials, Hardware and Farm Equipment
Retail Trade - General Merchandise
Retail Trade - Food
Retail Trade - Automotive, Marine Craft, Aircraft and Accessories
Retail Trade - Apparel and Accessories
Retail Trade - Furniture, Home Furnishings and Equipment
Retail Trade - Eating and Drinking
Other Retail Trade (not elsewhere coded)

(6) SERVICES

Finance, Insurance and Real Estate Services Personal Services Business Services Repair Services Professional Services Contract Construction Services Governmental Services Educational Services Miscellaneous Services

1

(7) CULTURAL, ENTERTAINMENT AND RECREATIONAL

Cultural Activities and Nature Exhibitions Public Assembly Amusements Recreational Activities Resort and Group Camps Parks Other Cultural, Entertainment and Recreational (not elsewhere coded)

(8) RESOURCE PRODUCTION AND EXTRACTION

Agriculture Agricultural Related Activities Forestry Activities and Related Services Fishing Activities and Related Services Mining Activities and Related Services Other Resource Production and Extraction (not elsewhere coded)

(9) UNDEVELOPED LAND AND WATER AREAS

Undeveloped and Unused Land Area (excluding non-commercial Forest Development) Non-commercial Forest Development Water Areas Vacant Floor Areas Under Construction Other Undeveloped Land and Water Areas (not elsewhere coded)

PREDOMINANT ROADWAY SERVICE

Code

*6/.

 Freeway - A facility devoted entirely to the movement of traffic which performs no land service function. This type of facility will always be a multi-lane, divided roadway with full control of access and no crossings at grade.

- (2) Expressway A facility devoted to the movement of traffic which performs little land service function. This type of facility will be a multi-lane, divided roadway with partial control of access and few crossings at grade.
- (3) Ramp A roadway connection between a freeway or expressway facility and a surface street or highway; also a connection between a freeway or expressway and another freeway or expressway. It will have full control of access and no crossings at grade.
- (4) Arterial A roadway which primarily serves through traffic on a continuous route. It may also act as a feeder route for freeway and expressway facilities. Although an arterial is primarily intended to move traffic, it may provide a secondary land service function.
- (5) Collector A street which serves the dual function of serving internal traffic movements within a specific area and movements from that area to an arterial route.
- (6) Local A street which primarily provides access to adjacent residential, commercial, industrial or recreational properties.
- (7) Rural A roadway which serves traffic movements beyond the limits of an urban area.
- (8) Alley A minor service street which generally provides access to the side or rear of a residential, commercial or industrial property. If alleys are to be included in a system, they must be assigned intersection numbers as are streets and roads.

(9) Other

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7. TERRAIN

Code

- (1) Flat
- (2) Rolling
- (3) Mountainous
- *8. CLASSIFICATION

Code

- Central Business District That portion of a municipality in which the dominant land use is for intense business activity. This district is characterized by large numbers of pedestrians, commercial vehicle loadings of goods and people, a heavy demand for parking space and high parking turnover.
- (2) Fringe Area That portion of a municipality immediately outside the Central Business District in which there is a wide range in type of business activity, generally including small businesses, light industry, warehousing, automobile service activities and intermediate strip development, as well as some concentrated residential areas. Most of the traffic in this area involves trips that do not have an origin or a destination within the area. This area is characterized by moderate pedestrian traffic and a lower parking turnover than is found in the Central Business District, but it may include large parking areas serving that district.
- (3) Outlying Business District That portion of a municipality or an area within the influence of a municipality, normally separated geographically by some distance from the Central Business District and its Fringe Area, in which the principal land use is for business activity. This district has its own local traffic circulation superimposed on through movements to and from the Central Business District, a relatively high parking demand and turnover, and moderate

1

pedestrian traffic. Compact off-street shopping developments entirely on one side of the street are not included in the scope of this definition.

- (4) Residential Area That portion of a muncipality, or an area within the influence of a municipality, in which the dominant land use is residential development, but where small business areas may be included. This area is characterized by few pedestrians and a low parking turnover.
- (5) Rural Roadway serves a sparsely developed area primarily devoted to agriculture or conservation usage.

9. ACCESS CONTROL

Code

(1)	Class I –	Interstate System or other fully Controlled
		Access Highway.

- (2) Class II Expressway System, a four-laned divided highway with interchanges or separation at major intersections and grade crossings at designated minor public road intersections. Expressway Controlled Access Highway.
- (3) Class III Planned Controlled Access Highways on which through traffic is given primary consideration.
- (4) Class IV Planned Controlled Access Highways on which through traffic and land service traffic are given equal consideration.

1

*10. ROUTE NUMBER PREFIX

Code

- (1) Interstate
- (2) U.S.
- (3) State
- (4) County
- (5) Municipal

*11. ROUTE NUMBER

An alternate route with a suffix code 1 through 5 under Item No. 12 below must be coded "5 - Municipal" under Item No. 10 above.

12. ROUTE NUMBER SUFFIX

Route suffix codes 1 through 5 may be coded only with routes coded "5 - Municipal" under Item No. 10 above.

Code

- (1) Alternate
- (2) Bypass
- (3) City Route
- (4) Temporary
- (5) Freeway Ramp
- (6) Regular (routes with no suffix)

*13. STREET DIRECTION PREFIX

This is used with Street Name, Item 14 below, For example: North Baltimore Street or 72nd Street North.

Code

- (1) North
- (2) Northeast
- (3) East

- 18 -

3

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14

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- (4) Southeast
- (5) South
- (6) Southwest
- (7) West
- (8) Northwest

*14. STREET NAME

*15. STREET NAME SUFFIX

Code

- (1) Street
- (2) Avenue
- (3) Road
- (4) Boulevard
- (5) Drive
- (6) Parkway
- (7) Other

*16. STREET DIRECTION SUFFIX

Code

- (1) North
- (2) Northeast
- (3) East
- (4) Southeast
- (5) South
- (6) Southwest
- (7) West
- (8) Northwest

*17. DATA STATUS

Code

 Existing - Use when the Data Card Type information is for an existing facility.

- (2) Under Construction Use when the data is for a facility currently under construction.
- (3) Financed Use when the data is for a proposed facility which has been programmed for construction and to which funds have been committed.
- (4) Programmed Use when the data is for a proposed facility which has been officially included in a construction program, but for which no funds have been committed.
- (5) Proposed Use when the data is for a proposed transportation facility, but which has not officially been included in a construction program.

*18. DATE OF UPDATE

Indicates the month and year which the "Data Status" Item No. 17 was recorded or updated. The first two digits will represent the number of the month, and the last two digits the year. Example: January 1967 will be coded 0167.

19. MAINTENANCE RESPONSIBILITY

Code

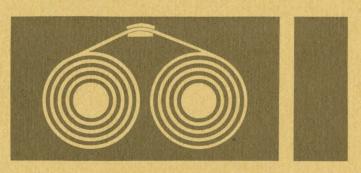
- (1) State
- (2) County
- (3) Municipal
- (4) Federal Agency
- (5) Metropolitan Park District
- (6) Tollway Agency
- (7) Private
- (8) Other

20. STATE CONTROL SECTION

No. Spaces

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ROAD WAY DATA-MAJOR ITEMS

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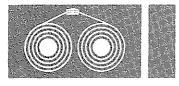
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ROADWAY DATA-MAJOR ITEMS

D. ROADWAY DATA - MAJOR ITEMS (Figure 4)

No. Spaces

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(Identified by individual begin and end station if not the same as inventory intersection station.)

*1. CROSS SECTION - DATA IDENTIFICATION

This will be coded to indicate the portion of the cross section to which subsequent data applies. This, along with subsection station limits, will allow a great deal of refinement of data for facility segments. If an entry is made for data for the left side of a roadway, then a separate entry must be made for data which applies to the right side.

Code (Single Roadway)

- (1) Left side
- (2) Right side
- (3) Both sides

(Divided Roadway)

- (4) Left roadway left side
- (5) Left roadway right side
- (6) Right roadway left side
- (7) Right roadway right side

(8) Both roadways - both sides

*2. RIGHT-OF-WAY WIDTH

4

3

Express the width or average width in feet with the appropriate suffix.

Code

U. Uniform width - Use a "U" for the suffix. Example: 150U A. Variable width - Use an "A" for the suffix. Example: 150A

**3. TOTAL RIGHT-OF-WAY AVAILABLE WITHOUT EXCESSIVE COST

Express width in feet. This will allow an office evaluation of whether a street or road can be widened. Determining

FIGURE 4

STREET, TRAFFIC AND TRANSPORTATION FACILITIES INVENTORY

10WA DEVELOPMENT COMMISSION AND 10WA STATE HIGHWAY COMMISSION

CARD NO. 2 ROADWAY DATA - MAJOR ITEMS

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D. ROADWAY DATA - MAJOR ITEMS

what is excessive cost is a judgemental consideration but generally will include the necessity of acquiring major buildings or groups of buildings, or other expensive manmade facilities. Also consider excessive damages which would result from widening.

*4. PAVEMENT SURFACE TYPE

The pavement surface type is indicated in the column "Construction Type Code", Item 10. The first digit of the code indicates the surface type.

*5. PAVEMENT SURFACE WIDTH

For segments of pavement of uniform width, the pavement surface width will be recorded in column "Width at Beginning Station" only. For segments of variable width, the width at both the beginning and the end of the segment will be recorded. Separate subsection control links (Items B-5 and B-6) must be established where changes in pavement surface width or type occurres.

If Item D-1 above is coded 1, 2, 4, 5, 6, or 7, the width recorded will be the distance from curb or edge of pavement to the center line of the roadway. If Item D-1 is coded 3, the width will be the distance from curb to curb or edge to edge of pavement, and if coded 8 will be the sum of the widths of the two roadways.

*6. PAVEMENT SURFACE THICKNESS

Express the thickness to the nearest one-half (1/2) inch.

*7. PAVEMENT SURFACE AREA

Express in square yards. The areas of intersection will not be duplicated. The following criteria will be used in assigning intersection areas to different segments.

a. Intersection of an inventory facility and one which is not included in the inventory. Use the normal pavement

6

1

width through the intersection in calculating the area and assign it to the inventory street. Disregard curb returns.

- b. Intersection of inventory facilities of unequal classification such as a local street and an arterial street. Carry the normal pavement width of the higher classification facility through the intersection and assign it to the proper inventory segments. The area of the lower classification facility will be figured to the edge of through pavement, including curb return areas, and assigned to the proper inventory segments.
- c. Intersection of inventory facilities of equal classification, such as two arterial streets. Assign the area of the intersection equally to each of the segments.
- d. Ramps, intersections, freeways. Include the area of acceleration and deceleration lanes adjacent to through freeway lanes with the ramp areas. Measure to the edge of the through lane. When a freeway lane is added or dropped, include the pavement area with the ramp to the point where the ramp becomes tangent to the freeway.

*8. PAVEMENT SURFACE CONDITION

Indicate pavement condition by numerical rating.

Rating Code		
9	Excellent -	New or near-new condition.
6-8	Good -	Minor cracking or spalling or irregularities. Minor roughness causing little discomfort in riding.
3-5	Fair –	Moderate cracking and failures – extensive patching required.

D. ROADWAY DATA - MAJOR ITEMS

2

4

1-2 Poor - Very heavy cracking, deep failures, obvious instability. Very unsatisfactory riding surface.

0 Very Poor - Completely broken up.

*9. PAVEMENT SURFACE CONSTRUCTED

drained

Express by using the last two digits of the year.

*10. CONSTRUCTION TYPE CODE

Pavement surface and base type will be indicated by the following codes:

Code Type 0001 A. Primitive road 0002 Β. Unimproved road 0010 C. Graded and drained earth road, without special borrow topping. 0011 Graded and drained earth road, with special borrow topping. D. Soil-surfaced road: 1000 Without admixture, on earth road not graded and drained 1001 With admixture, on earth road not graded and drained 1010 Without stabilizing admisture, on graded and drained earth road With stabilizing admixture, on graded and drained earth road: Stabilizing admixture: 1012 Aggregate 1013 Bituminous 1014 Portland cement 1015 Chemical Ε. Gravel or stone road: 2000 Without admixture, on earth road not graded and

- 25 -

2001	With admixture, on earth road not graded
0010	and drained
2010	Without stabilizing admixture, on graded and
	drained earth road
	With stabilizing admixture, on graded and
	drained earth road:
	Stabilizing admixture:
2012	Sand-clay
2013	Bituminous
2014	Portland cement
2015	Chemical
	F. Bituminous surface-treated road:
	(mat less than 1" in compacted thickness)
3000	On earth road without admixture, not graded
	and drained
3001	On earth road with admixture, not graded and
	drained
3010	On graded and drained earth road without
	admixture
3011	On graded and drained earth road with admixture
3110	On soil-surfaced road without admixture
3112	On soil–surfaced road with admixture – Aggregate
3113	Bituminous
3114	Portland Cemen
3115	Chemical
3210	Gravel or stone road without admixture
3212	Gravel or stone road with admixture – Sand-clay
3213	Bituminous
3214	Portland Cemen
3215	Chemical

G. Mixed bituminous road: (mat 1" or more in compacted thickness)

Road	Plant	
Mix	Mix	
4000	4010	On earth road not graded and drained
4001	4011	On graded and drained earth road base

Combined thickness of

í

surface and base

Under	7" or	Under	7" or	
7"	more	7 "	more*	
	4131 4132	4141 4142	4151 4152	Soil-surfaced base without admixture Soil-surfaced base with admixture – Aggregate
	4133 4134	4143 4144	4153 4154	Bituminous Portland Cement
	4135	4145	4155	Chemical
	4231	4241	4251	Gravel or stone base without admixture
4222	4232	4242	4252	Gravel or stone base with admixture – Sand-clay
4223	4233	4243	42 53	Bituminous
4224	4234	4244	4254	Portland Cement
4225	4235	4245	4255	Chemical
				*Or equivalent
Road N	1ix	Plant A	۸i×	
4706	I	4716	b	Portland cement concrete base (old) Portland cement concrete base (new)
4707	,	4717	7	Non-reinforced
4708		4718	ļ.	Reinforced
4805		4815		Brick base; old brick road on non-rigid subbase
				Block base, old block road on non-rigid subbase
4807		4817	,	Brick base; old brick road on Portland cement concrete subbase
4808	4224 4234 4244 42			Block base; old block road on Portland cement concrete subbase
				H. Bituminous penetration road: (mat 1" or more in compacted thickness)
surf.tro layers,	eat. , 1"	wear.s 2″ or m	urf., nore	
50) 50)		50 50		On earth road not graded and drained On graded and drained earth road base

Combined thickness of surface and base

Under 7"	7" or more	Under 7"	7" or more*		
5125 5221 5222 5223 5224	5131 5132 5133 5134 5135 5231 5232 5233 5234 5235	5141 5142 5143 5144 5145 5241 5242 5243 5243 5244 5245	5151 5152 5153 5154 5155 5251 5252 5253 5253 5254 5255		Soil-surfaced base without admixture Soil-surfaced base with admixture - Aggregate Bituminous Portland Cement Chemical Gravel or stone base without admixture Gravel or stone base with admixture - Sand-clay Bituminous Portland Cement Chemical
0220	0200	0210	0200	*Or	equivalent
57 57 58 58 58	706 707 708 805 806 807 808	5716 5717 5718 5815 5816 5817 5818			Portland cement concrete base (old) Portland cement concrete base (new) Non-reinforced Reinforced Brick base; old brick road on non-rigid subbase Block base; old block road on non-rigid subbase Brick base; old brick road on Port. Cem. Conc. subbase Block base; old block road on Port. Cem. Conc. subbase
Bitum. concret			Rock phalt	۱.	Bituminous Concrete, sheet asphalt and rock asphalt road (mat 1" or more in compacted thickness)
6001 6102 6103 6104 6105 6201 6202 6203 6204 6205	61 61 61 61 62 62 62 62	11 6 12 6 13 6 14 6 15 6 11 6 12 6 13 6 14 6 15 6 14 6 15 6 14 6 13 6 14 6	021 121 122 123 124 125 221 222 223 224 225		Graded and drained earth road base Soil-surfaced base without admixture Soil-surfaced base with admixture - Aggregate Bituminous Portland Cement Chemical Gravel or stone base without admixture Gravel or stone base with admixture - Sand-clay Bituminous Portland Cement Chemical

6706 6707	6716 6717	6726 6727	Portland cement concrete base (old) Portland cement concrete base (new) non-reinforced
6708	6718	6728	reinforced
6805	6815	6825	Brick base; old brick road on non-rigid subbase
6806 6807	6816 6817	6826 6827	Block base; old block road on non-rigid subbase Brick base, old brick road on Portland Cem. Conc. subbase
6808	6818	6828	Block base; old block road on Portland Cem. Conc. subbase

Reinforcement**

J. Portland cement concrete road:

None	Partial	Full	
			Without bituminous wearing surface:
7001	7011	7021	Graded and drained earth road base
7101	7111	7121	Soil-surfaced base without admixture
7102	7112	7122	Soil–surfaced with admixture – Aggregate
7103	7113	7123	Bituminous
7104	7114	7124	Portland Cement
7105	7115	7125	Chemical
7201	7211	7221	Gravel or stone base without admixture
7202	7212	7222	Gravel or stone base with admixture – Sand-clay
7203	7213	7223	Bituminous
7204	7214	7224	Portland Cement
7205	7 2 15	7 22 5	Chemical
7706	7716	7726	Old Portland Cement concrete base
			With bituminous wearing surface less than 1" thick:
7031	7041	7051	Graded and drained earth road base
7131	7141	7151	Soil-surfaced base without admixture
7132	7142	7152	Soil-surfaced base with admixture – Aggregate
7133	7143	7153	Bituminous
7134	7144	7154	Portland Cement
7135	7145	7155	Chemical
7231	7241	7251	Gravel or stone base without admixture
7232	7242	7 2 52	Gravel or stone base with admixture – Sand-clay
7233	7243	7253	Bituminous
7234	7244	7254	Portland Cement
723 5	7245	7255	Chemical
7736	7746	7756	Old Portland Cement concrete base

**Reinforcement

None - Non-reinforced pavement carries no reinforcing steel. For coding purposes, joint tie-rods, dowels and load transfer devices are not here considered reinforcing steel.

Partial - Partially reinforced pavement includes marginal and corner reinforcement: also there may be generally distributed reinforcement under 30 pounds per square (100 square feet).

Full – Fully reinforced pavement will require generally distributed reinforcing steel of not less than 30 pounds per square (100 square feet).

BrickBlock8301831187068716870787178708871883218331872687368727873787288738	 K. and L. Brick (K) or Block (L): Without bituminous wearing surface: Non-rigid base Old Portland cement concrete base New Portland cement concrete base, non-reinforced New Portland cement concrete base, reinforced With bituminous wearing surface less than 1" thick: Non-rigid base Old Portland cement concrete base New Portland cement concrete base, non-reinforced New Portland cement concrete base, non-reinforced
Digits	 M. Combination type road:
1 2 3 4	The first digit (code "9") indicates combination type
9	The second digit indicates one of the types comprising
9 0	the combination type road The third digit indicates the other type comprising the
9 - 0 -	combination type road. The code used for digits
9 0 0 -	2 and 3 is as follows:
9 1 1 -	Graded and drained earth
9 2 2 -	Soil-surfaced
9 3 3 -	Gravel or stone
2 4 4	Bituminous surface-treated
9 4 4 -	Mixed bituminous
9 5 5 -	Bituminous penetration
9 6 6 -	Bituminous concrete, sheet asphalt or rock asphalt
9 7 7 -	Portland cement concrete
9 8 8 -	Brick or block
9 0 9 1 9 2 9 6 9 7 9 8 9 9	The fourth digit indicates the predominating type of base: Graded and drained earth Soil-surfaced Gravel or stone Old Portland cement concrete New Portland cement concrete Old brick or block New brick or block

D. RO	ADWAY DATA - MAJOR ITEMS	No. Spaces
*11.	PAVEMENT BASE THICKNESS	3
	Express the thickness to the nearest one-half $(1/2)$ inch.	
*12.	PAVEMENT BASE CONSTRUCTED	2
	Express by using the last two digits of the year.	
*13.	SHOULDER SURFACE TYPE]
	Code	
	 Portland Cement Concrete Plant Mixed Bituminous Concrete Road Mixed Bituminous Concrete Bituminous Penetration Bituminous Seal Coat Brick or Block Gravel or Stone Grass Unimproved 	
*14.	SHOULDER SURFACE WIDTH	3
	Express the width or average width in feet with the appropriate suffix .	
	Code	
	U. Uniform Width – Use a "U" for the suffix. Example: 10U A. Variable Width – Use a "A" for the suffix. Example: 10A	
*15.	SHOULDER SURFACE THICKNESS	3
	Express the thickness to the nearest one-half $(1/2)$ inch.	
*16.	SHOULDER SURFACE CONDITION	1
	Indicate the condition of shoulder surface by the numeri- cal rating.	

1

4

Rating Code		
9	Excellent –	New or near-new condition
6-8	Good -	Light cracking or spalling
3-5	Fair –	Moderate cracking and failures, minor rutting. Patching required.
1-2	Poor –	Heavy cracking, deep failures, obvious instability, deep rutting.
0	Very Poor -	Completely broken up.

*17. MEDIAN TYPE

Code

(1)	Raised	- L	Jniform	Width
-----	--------	-----	---------	-------

- (2) Raised Variable Width
- (3) Depressed Uniform Width
- (4) Depressed Variable Width
- (5) Surface Level Uniform Width
- (6) Surface Level Variable Width
- (7) Other
- (8) None

*18. MEDIAN WIDTH

Express the width or average width in feet with the appropriate suffix.

Code

U. Uniform Width – Use a "U" for the suffix. Example: 16U

A. Variable Width - Use a "A" for the suffix. Example: 16A

*19. MEDIAN SURFACE TYPE

Code

- (1) Portland Cement Concrete
- (2) Bituminous
- (3) Grass
- (4) Gravel or Stone
- (5) Other
- (6) Unsurfaced

*20. MEDIAN SURFACE CONDITION

Indicate the condition of median pavement surface by numerical rating.

Rating Code

9	Excellent -	New or near-new condition
6 - 9	Good -	Light cracking or spalling
3-5	Fair -	Moderate cracking and failures. Patching required.
1-2	Poor -	Heavy cracking and failures. Ex- tensive patching or replacement required.

0 Very Poor - Completely broken up.

*21. MEDIAN PROTECTION

Code

- (1) Barrier Guardrail
- (2) Concrete Barrier
- (3) Cable
- (4) Fence

1

1

2

2

- (5) Trees or Shrubs
- (6) Other Type
- (7) None

*22. SURVEY YEAR

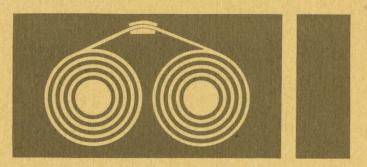
Express by using the last two digits of the year.

**23. CROSS-SECTION DEFICIENCIES

This allows for coding two cross-section deficiencies. Record the predominant one in the first column and the secondary one in the second column.

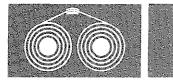
Code

- (1) Valley gutters
- (2) Curbs adjacent to through high speed traffic lanes
- (3) Distorted crowns
- (4) Inverted crown
- (5) Adverse superelevation
- (6) Insufficient cross slope
- (7) Street car tracks
- (8) Abandoned railroad distortion
- (9) Side ditches insufficient side ditches to adequately drain sub-base or sub-grade



ROADWAY DATA- MINOR ITEMS

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ROADWAY DATA-MINOR ITEMS

E. ROADWAY DATA - MINOR ITEMS (Figure 5)

No. Spaces

1

(Identified by individual begin and end station if not the same as inventory intersection station.)

*1. CROSS SECTION - DATA IDENTIFICATION

This will be coded to indicate the portion of the cross section to which subsequent data applies. This, along with subsection station limits, will allow a great deal of refinement of data for facility segments. If an entry is made for data for the left side of a roadway, then a separate entry must be made for data which applies to the right side.

Code (Single Roadway)

- (1) Left side
- (2) Right side
- (3) Both sides

(Divided Roadway)

- (4) Left roadway left side
- (5) Left roadway right side
- (6) Right roadway left side
- (7) Right roadway right side
- (8) Both roadways both sides

*2. CURB TYPE

Code

- (1) Barrier curb adjacent to traffic lane(2) Mountable curb adjacent to traffic lane
- (3) Barrier curb adjacent to parking lane
- (4) Mountable curb adjacent to parking lane
- (5) Barrier curb adjacent to
- (6) Mountable curb adjacent to shoulder
- (7) None

*3. CURB HEIGHT

Express the distance from gutter to top of curb in inches.

shoulder

2

FIGURE 5

STREET, TRAFFIC AND TRANSPORTATION FACILITIES INVENTORY

IOWA DEVELOPMENT COMMISSION AND IOWA STATE HIGHWAY COMMISSION

CARD NO. 3 ROADWAY DATA - MINOR ITEMS

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E. ROADWAY DATA - MINOR ITEMS

*4. CURB WIDTH

Express width at base in inches.

**5. CURB CONDITION

Rating Code

9	Excellent -	New or like-new condition
6-8	Good -	Minor cracking or spalling. Normal maintenance will correct.
3-5	Fair –	Moderate cracking and failures. Requires special repairs
1-2	Poor –	Very heavy cracking. Extensive repairs or rebuilding required.
0	Very Poor -	Completely broken up. Rebuilding required.

6. YEAR CURB CONSTRUCTED

Express by using last two digits of the year.

*7. SIDEWALK TYPE

Code

- (1) Portland Cement Concrete
- (2) Bituminous Concrete
- (3) Bituminous Surface Treatment
- (4) Brick or Block
- (5) Gravel or Stone
- (6) None

*8. SIDEWALK WIDTH

Express the width to the nearest one (1) foot.

No. Spaces

2

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2

1

E. RO	ADWAY	DATA - MIN	OR ITEMS	No. Spaces						
9.	SIDEWA	SIDEWALK THICKNESS								
	Exi	press the thick	ness in inches.							
10.	SIDEWA	ALK CONDIT	ION	1						
	Rating Code									
	9	Excellent –	New or near new condition.							
	6–8	Good -	Minor cracking or spalling. Normal maintenance will correct.							
	3–5	Fair -	Moderate cracking and failures. Requires special repairs.							
	1-2	Poor -	Uneven settlement, cracking and failures. Extensive repairs or rebuilding required.							
	0	Very Poor -	Completely broken up. Rebuilding required.							
*]].	PARKIN	IG STRIP WIE	DTH	3						
	•	press the distan earest 0.5 foot	ce between the sidewalk and the curb							

1

*12. TYPE OF LONGITUDINAL DRAINAGE

Code

-

- (1) Curb Gutter
- (2) Open Ditches(3) None

**13. ADEQUACY OF DRAINAGE

Rating Code		Curb Section	Open Section
9	Excellent	Inlets and pipes observed to be in good shape. No flooding observed.	Ditches and struc- tures clean and in good repair. No flooding observed.
6-8	Good	Inlets and pipes observed to be in good shape. Pos- sibly some clean- ing or repair required. Some ponding observed.	good shape. Some repair, regrading or cleaning needed. Some ponding
3-5	Fair	Extensive or fre- quent flooding observed due to condition of storm sewer sys- tem.	Extensive or frequent flooding and standing water observed. Structure needing some repairs.
1-2	Poor	Extensive or fre- quent flooding. Very extensive maintenance re- quired.	Extensive or frequent flooding due to poor condition of ditches and structures. Ex- tensive maintenance required.
0	Very Poor	Extensive flood- ing observed due to condition of structures. No further mainten- nance recom- mended. Recon- struction needed.	Extensive flooding observed due to inadequate ditches, etc. Structures in such poor condition that replacement is recommended.

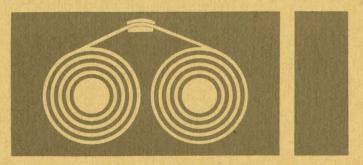
No. Spaces

E. RC	adway data – Minor items	No. Spaces
*14.	ROADWAY CULVERT TYPE (less than 20' span)	1
	Code	
	 Concrete Pipe Metal Pipe Concrete Box Other 	
15.	NUMBER OF IDENTICAL CULVERT SIZES	2
*16.	CULVERT SHAPE	1
	Code	
	 Round Arched Elliptical Square Rectangular Other 	
*17.	CULVERT SIZE	6
	 Express the diameter of circular pipes and the equivalent diameter of arched and elliptical pipes in inches. Example: 000072 (72") 	
	 Express the width and height of square and rectangular culvert openings to the nearest 0.5 foot. Example: 085100 (8.5' x 10.0') 	
18.	MANHOLES	1
	Code	
	 In pavement Within R/W None 	

E. ROADWAY DATA - MINOR ITEMS	No. Spaces
19. SEWERS – Storm & Sanitary	1
(1) Under pavement(2) Within R/W(3) None	
20. UNDERGROUND UTILITIES	1
Code	
 Under pavement Within R/W None 	
21. OVERHEAD UTILITIES	1
Code	
 Over pavement Within R/W None 	

*22. SURVEY YEAR

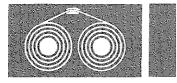
Express by using the last two digits of the year.



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BRIDGE DATA



BRIDGE DATA

F. BRI	DGE DATA (Figure 6)	No. Spaces
076	Located by begin and end station if inventory roadway er. Single station if inventory roadway <u>under</u> .	
*].	CROSSING TYPE	1
	Code	
	 Inventory Roadway Over Inventory Roadway Under 	
2.	BRIDGE OWNERSHIP	1
	Code	
	 State County Township Municipal Metropolitan Park District Federal Agency Tollway Agency Railroad Private Other 	
*3.	CROSSING FACILITY	Ţ
	The type facility which crosses over or under the inven- tory roadway.	
	Code	
	(1) Roadway	

- (2) Tollway
- (3) Railroad
- (4) Pedestrian
- (5) Waterway
- (6) Tunnel
- (7) Other

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(2) INC 10		20			S								N.	42 43	WIDTH	
				6									<u>- KČ</u> 2%	4	(NEAREST 0.5 FT.)	
	3	8					X						Š.	46 47	BRIDGE LENGTH (FT.)	
		<u>50</u>	<u>- 54</u>		 				2			3		7 48 49	PEDESTRIAN WALKWAY	_
100 C					X		N.			R				50 51	BRIDGE TYPE DESCRIPTION	8810
		8		E										52 53	SUPERSTRUCTURE MATERIAL DECK SURFACE	ନ୍ମ
		5	NCO.	No.	S.			X TO	S			222		54	HORIZONTAL CLEARANCE	DAT
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FIGURE 6 STREET, TRAFFIC AND TRANSPORTATION FACILITIES INVENTORY

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DES MOINES NEW YORK

F. BRIDGE DATA

No. Spaces

1

2

1

3

3

4

1

*4.	LEFT	OR	RIGHT	ROADWAY	
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For bridges on divided roadways which involve separate structures, indicate the one to which the subsequent bridge data applies. A separate entry must be made for each structure. Left and right will be determined by looking from the lower intersection number to the higher.

Code

(1)	Left	Roadway

(2) Right Roadway

(3) Not Separate Structures

*5.	NUMBER	OF	SPANS		

*6. NUMBER OF TRAFFIC LANES

Enter number of traffic lanes on inventory road.

*7. OVERALL BRIDGE WIDTH

The total width from outside to outside of the structure to the nearest 0.5 foot.

*8. BRIDGE ROADWAY WIDTH

The distance from face of curb to face of curb to the nearest 0.5 foot.

*9. BRIDGE LENGTH

Express the length in feet.

*10. PEDESTRIAN WALKWAYS

Code

- (1) Right
- (2) Left

F. BRIDGE DATA

1

1

1

- (3) Both Sides
- (4) None
- *11. BRIDGE TYPE

Code

- (1) Arch
- (2) Beam
- (3) Suspension
- (4) Truss
- (5) Slab
- (6) Frame
- (7) Girder
- (8) Other

*12. BRIDGE DESCRIPTION

Code

- (1) Simple Span
- (2) Continuous
- (3) Deck
- (4) Thru
- (5) Movable
- (6) Other

*13. SUPERSTRUCTURE MATERIAL

Code

- (1) Concrete
- (2) Steel
- (3) Timber
- (4) Stone
- (5) Other

1

*14. DECK SURFACE

Code

(1)	Concrete
11	Concrete

- (2) Asphalt
- (3) Wood
- (4) Steel
- (5) Brick
- (6) Railroad
- (7) Other

*15.	MINIMUM HORIZONTAL CLEARANCE	3
	The distance between the edge of inventory roadway and the nearest lateral obstruction to the nearest 0.5 foot.	
*16.	MINIMUM VERTICAL CLEARANCE	3
	The distance between the inventory roadway surface and the lowest overhead obstruction to the nearest 0.1 foot.	
*17.	DESIGN LOAD LIMIT	3
	Express the design load limit in tons	
*18.	POSTED LOAD LIMIT	3
	Express the posted load limit in tons.	
*19.	YEAR CONSTRUCTED	2
**20.	SUBSTRUCTURE CONDITION	1

Rating Code

9 Excellent – All concrete very sound with no spalls or cracks.

F. BRIDGE DATA

No. Spaces

1

- 6-8 Good Concrete appears to be in sound condition and no evidence of any cracking or moisture problems.
- 3-5 Fair Only minor spalling or deteriorated areas in the substructure.
- 1-2 Poor Some deterioration of the substructure units due to either spalling or moisture requiring repairs within a reasonable period of time.
- 0 Very Poor Any substructure showing considerable deterioration of the concrete. This deterioration would indicate that without immediate repairs, there would be likelihood of further deterioration due to either moisture or stress and a possibility of ultimate failure.

**21. SUPERSTRUCTURE CONDITION

Rating Code

9 Excellent -No rusting or corrosion of steel members. Concrete members to be in sound condition with no spalls or cracks. 6-8 Good -Condition of the paint on steel members is satisfactory. There is lack of moisture entrapment on any of the members. Concrete members to be in sound condition with only minor spalls or cracks. 3-5 Fair -Minor rusting or corrosion of steel members or minor spalling and cracking of concrete members.

1

- 1-2 Poor Some corrosion of steel members or spalling and cracking of concrete members is in evidence. Repairs would be required in the immediate future.
- 0 Very Poor Critical corrosion of steel members or excessive spalling and cracking of concrete members. Immediate repairs are required.

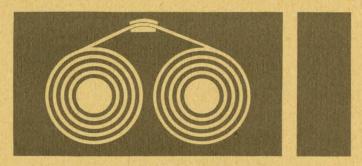
**22. DECK CONDITION

Rating Code

9	Excellent –	No cracking or leaching nor spalling nor discoloration in evidence. Con- crete to appear sound and without signs of distress in any location.
6–8	Good -	Very minor cracking or leaching and without evidence of any discoloration or probable deterioration of the con- crete.
3-5	Fair –	Normal cracking and leaching of the deck slab. Only minor spalls visible.
1-2	Poor –	Considerable spalling and leaching with indication that replacement will probably be required in the near future.
0	Very Poor -	Excessive cracking, spalling, leaching or discoloration of the deck. Immediate repairs are required.

*23. SURVEY YEAR

Use the last two digits of the year.



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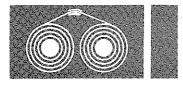
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TRAFFIC DATA

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TRAFFIC DATA

G. TRAFFIC DATA (Figure 7)

No. Spaces

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1

1

1

6

*1. LEFT OR RIGHT SIDE

This will be coded to indicate to which side of a single roadway or to which roadway of a divided facility the Subsequent data applies.

Code

- (1) Left Side or Left Roadway
- (2) Right Side or Right Roadway
- (3) Both

*2. TRAFFIC OPERATION

Code

- (1) One-way
- (2) Two-way

3. TRAFFIC ENFORCEMENT

Code

- (1) State
- (2) County
- (3) Municipal
- (4) Federal
- (5) Other

*4. THROUGH TRAFFIC LANES

Number of thru lanes only, exclusive of parking lanes.

5. MAXIMUM SPEED LIMIT

Express in miles per hour with the appropriate suffix.

- a. Daytime Use suffix D.
- b. Night Use suffix N.
- c. Day and Night Use suffix DN

Example: 65D60N or 060DN

- 51 -

FIGURE 7

STREET, TRAFFIC AND TRANSPORTATION FACILITIES INVENTORY

IOWA DEVELOPMENT COMMISSION AND IOWA STATE HIGHWAY COMMISSION

CARD NO. 5 TRAFFIC DATA

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G. TRA	AFFIC DATA	No. Spaces
6.	TRAFFIC VOLUME COUNT	5
	Express the total recorded volume.	
7.	LENGTH OF TRAFFIC COUNT	2
	Express in number of hours.	
8.	TIME OF TRAFFIC COUNT	4
	Denote beginning and ending hours based on a 24-hour clock.	
	Example: 1:00 a.m. = 01; 3:00 p.m. = 15	
9.	DATE OF TRAFFIC COUNT	6
	Denote day, month and year. Example: June 15, 1966 = 061566	
10.	REDUCED SPEED ZONES	2
	Number of reduced speed zones for schools, hospitals, etc.	
11.	TRAFFIC SIGNS	6
	Indicate the number of signs and their general type with the appropriate suffix .	
	a. Regulatory - Gives notice of laws or regulations. Their disregard is punishable as a traffic violation. Use suffix "R".	
	b. Warning - Calls attention to a potentially hazardous condition. Use suffix "W".	
	c. Guide – Shows route designations, distances or other general information. Use suffix "G".	

G. TRAFFIC DATA

*12. INTERMEDIATE TRAFFIC SIGNALS - TYPE

Code the type of mid-block or non-intersection traffic signals. All signals at intersections will be recorded under Intersection Data. If more than one mid-block signal occurs in a segment, a separate entry will be made for each.

Code

- (1) Pretimed
- (2) Traffic-Adjusted
- (3) Traffic Actuated
- (4) Pedestrian Actuated
- (5) Flasher
- (6) Lane direction control
- (7) Other

*13. INTERMEDIATE TRAFFIC SIGNALS - SERVICE

Code the type of service provided by the mid-block or non-intersection traffic signals. If more than one mid-block signal occurs in a segment, a separate entry will be made for each.

Code

- (1) Pedestrian
- (2) Fire Station
- (3) Shopping Center
- (4) Caution
- (5) Other

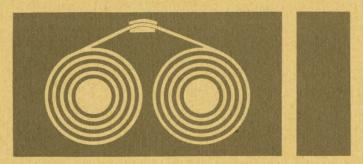
*14. SURVEY DATE

List the month and last two digits of the year.

No. Spaces

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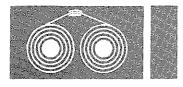
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PARKING DATA



PARKING DATA

H. PARKING DATA (Figure 8)

*1. LEFT OR RIGHT SIDE

This will be coded to indicate to which side of a roadway or to which roadway the subsequent data applies. Left and right will be determined by looking from lower intersection number to the higher.

Code (Single Roadway)

- (1) Left side
- (2) Right side
- (3) Both sides

(Divided Roadway)

- (4) Left roadway left side
- (5) Left roadway right side
- (6) Right roadway left side
- (7) Right roadway right side
- (8) Both roadways both sides

*2. PARKING LANES

List number of roadway lanes devoted either partially or exclusively to parking and their width in feet.

*3. TYPE OF PARKING

Code

- (1) Parallel
- (2) Angle 30°
- (3) Angle 45°
- (4) Angle 60°
- (5) Perpendicular
- (6) Center of street
- (7) No Parking

4. PARKING METERS

List total number of parking meters.

No. Spaces

1

3

FIGURE 8

IOWA

DEVELOPMENT

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RKING

DATA

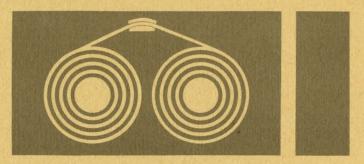
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COMMISSION AND IOWA STATE HIGHWAY COMMISSION

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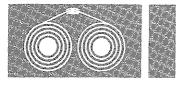
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Н	. PA	RKING DATA	No. Spaces
	5.	PARKING SPACES	3
		List total number of on-street parking spaces.	
	*6.	PARKING PROHIBITIONS	8
		Denote the beginning and ending hours when parking is prohibited, based on a 24-hour clock.	
		Example: No Parking 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m. = 07091620	
	7.	PARKING REGULATIONS (Normal Weekday)	1
		Code	
		 0 to 30 minutes 31 minutes to 1 hour Greater than 1 hour and not more than 2 hours Other 	
N.	8.	DRIVEWAY ENTRANCES	2
		List total number of driveway entrances. For wide drive- way openings consider 0 to 30' as 1 driveway; 31' to 60' as 2 driveways' 61' to 90' as 3 driveways, etc.	
	*9.	SURVEY DATE	4
		List the month and the last two digits of the year.	



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ACCIDENT DATA



ACCIDENT DATA

I. ACCIDENT DATA (Figure 9)

1. ACCIDENT TYPE

No. Spaces

10

1

List appropriate code number for each vehicle, pedestrian or object involved. The location of the accident will be described by the station entered in the "Begin Station" column if it occurred between intersections on a control segment. If the accident occurred at an intersection, it will be described by entering the intersection number in the column "First Intersection Reference Number". If it occurred near the center of the intersection, no entry will be made in column "Second Intersection Reference Number", or in the station columns. If it occurred on a leg of an intersection, that leg will be denoted by entering the next intersection number in the "Second Intersection Reference Number".

Code

- (1) Automobile
- (2) Truck
- (3) Bus
- (4) Pedestrian
- (5) Motorcycle
- (6) Bicycle
- (7) Train
- (8) Animal
- (9) Fixed Object
- (10) Other

2. ACCIDENT CATEGORY

Code

- (1) Fixed object
- (2) Run off road
- (3) Rear end
- (4) Turning
- (5) Sideswipe
- (6) Angle
- (7) Head-on
- (8) Vehicle & pedestrian
- (9) Vehicle & train

FIGURE 9 STREET, TRAFFIC AND TRANSPORTATION FACILITIES INVENTORY

10WA DEVELOPMENT COMMISSION AND 10WA STATE HIGHWAY COMMISSION

CARD NO. 7 ACCIDENT DATA

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PROPERTY DAMAGE	
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I. ACCIDENT DATA

3. FIXED OBJECT

If "Fixed Object" is involved in the accident, indicate the type of appropriate code in the first column and its distance to the nearest foot from curb or edge of pavement in the second. Example: Utility Pole 5' from curb = 505

Code

- (1) Bridge pier or abutment
- (2) Bridge parapet
- (3) Roadway sign minor
- (4) Roadway sign major
- (5) Utility pole
- (6) Guard rail
- (7) Fence
- (8) Building
- (9) Other

4. DAY OR NIGHT

Record the code to indicate when the accident occurred.

Code

(1) Day

(2) Night

5. PAVEMENT CONDITION

Indicate by code the condition of the pavement when the accident occurred.

Code

- (1) Dry
- (2) Wet
- (3) Snow-covered
- (4) Ice-covered

No. Spaces

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I. ACCIDENT DATA

6. INJURIES

List number of injuries to:

Code

- A Vehicle occupants, including driver
- **B** Pedestrians
- C Motorcycle Riders
- D Bicycle Riders
- E Others

Example: Injuries to 3 vehicle occupants and 1 pedestrian will be coded - 3A, 1B.

No. Spaces

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7. FATALITIES

List number of fatalities to:

Code

- A Vehicle occupants
- B Pedestrians
- C Motorcycle Riders
- D Bicycle Riders
- E Others
- 8. PROPERTY DAMAGE

List estimated property damage in hundreds of dollars.

9. ACCIDENT LOCATION

Code

- (1) Roadway or street
- (2) Roadway or street intersection
- (3) Alley or driveway entrance
- (4) Railroad grade crossing
- (5) Bridge
- (6) Other

I. ACCIDENT DATA

No. Spaces

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10. PROBABLE ACCIDENT CAUSE

List the one most significant accident cause event.

Code

- (1) Excessive speed
- (2) Following too closely
- (3) Improper passing
- (4) Vehicle or tire failure
- (5) Failure to yield right-of-way
- (6) Disregard of control devices
- (7) Wrong side of road
- (8) All others
- (9) Unknown

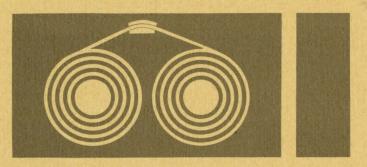
11. DRINKING

Code

- (1) One or more drivers had been drinking
- (2) Pedestrian had been drinking
- (3) Not stated

12. ACCIDENT DATE

List day, month and last two digits of year.



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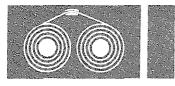
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INTERSECTION DATA



INTERSECTION DATA

J. INTERSECTION DATA (Figure 10)

Data recorded will be for the intersection as a unit and will be identified by the intersection number which will be recorded in the column "First Intersection Reference Number". For data pertaining to the entire intersection, no "Second Intersection Reference Number" will be recorded. For data items applicable to only one leg of the intersection (Items 3, & 6-10), record the next intersection number in the "Second Intersection Reference Number". Leg data will be recorded looking toward the intersection.

*1. INTERSECTION TYPE

Code

- (1) Simple An intersection with 3 or 4 opposed legs.
- (2) Complex An intersection with more than 4 legs with offset legs or channelization.

*2. INTERSECTION LEGS

List number of intersection legs.

*3. INTERSECTING FACILITY

List the smallest code number (highest type facility) for the facility which intersects the inventory route.

Code

- (1) Freeway
- (2) Expressway
- (3) Ramp
- (4) Arterial Street
- (5) Service Street
- (6) Railroad
- (7) Other

No. Spaces

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FIGURE 10

Ø **HDDDH** TRAFFIC ♪ Z U TRANSPORTATION FACILITIES INVENTORY

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J. INTERSECTION DATA

4. TRAFFIC CONTROL JURISDICTION

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(1) State

- (2) County
- (3) Municipal
- (4) Federal agency
- (5) Private
- (6) Other

*5. TYPE OF TRAFFIC CONTROL

Code

- (1) Pretimed signal
- (2) Traffic-Adjusted Signal
- (3) Traffic Actuated Signal
- (4) Pedestrian Actuated Signal
- (5) Flasher Signal
- (6) Four-way Stop Sign
- (7) Minor Street Stop Sign
- (8) Minor Street Yield Sign
- (9) No Control

*6. LEFT TURN MOVEMENTS

Code

- (1) Prohibited
- (2) Restricted
- (3) Permitted

*7. RIGHT TURN MOVEMENTS

Code

- (1) Prohibited
- (2) Restricted
- (3) Permitted

J. INTERSECTION DATA

- 68 -

*8. BUS LOADING ZONES - LOCATIONS - APPROACH LEG Code (1)Nearside Farside (2)(3) Mid-block *9. ADDED LEFT TURN LANES List number of lanes for each leg. *10. ADDED RIGHT TURN LANES List number of lanes for each leg. *11. RAILROAD GRADE CROSSINGS Name of railroad -Use code numbers to identify the α. specific railroad. b. Number of tracks -List the total number of trucks at the roadway crossing. Number of trains -List the approximate number of с. trains per day. Speed of trains -List the approximate maximum d. speed of trains at the crossing. *12. RAILROAD GRADE CROSSING PROTECTION Code (1) Gates (2) Signals (3) Watchman (4) Crossbucks (5) Other

*13. SURVEY DATE

List month and last two digits of year.

No. Spaces

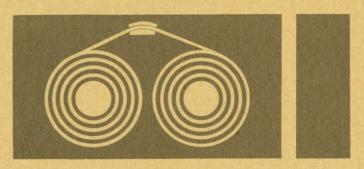
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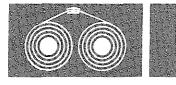


OVER LAPPING ROUTE DATA

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OVERLAPPING ROUTE DATA

K. OVERLAPPING ROUTE DATA

Cards will be prepared to indicate overlapping route data. Data entered on Cards 1 thru 8 will not be duplicated for these overlapping functions. The limits to which this overlapping data is applicable will be defined by station limits.

*1. STATE

If the overlapping data to be coded is applicable to a state other than lowa, enter the state code from the 1960 U.S. Census of Population and Housing, Iowa PHC (2)-17.

*2. COUNTY

> If the overlapping data to be coded applies to a county other than the one to which the primary data applies, enter the county code from the 1960 U.S. Census of Population and Housing, Iowa PHC (2)-17.

*3. CITY OR PLACE

> If the overlapping data is applicable to a city or place other than the one to which the primary data applies, enter the Place code from the 1960 U.S. Census of Population and Housing, Iowa PHC (2)-17.

*4. ROUTE NUMBER

> If the overlapping data applies to an overlapping route number, enter the overlapping route number along with appropriate prefix and suffix.

Prefix Code

Suffix Code

(1) Alternate

(1) Interstate

(5) Municipal

- (2) Bypass
- (2) U.S. (3) State
 - (3) City Route (4) Temporary
- (4) County
- (5) Freeway Ramp

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(6) Regular (routes with no suffix)

No. Spaces

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Ø TREET, TRAFFIC AND TRANSPORTATION FACILITIES INVENTORY

IOWA DEVELOPMENT COMMISSION CARD NO. 9 OVERLAPPING ROUTE DATA AND IOWA STATE HIGHW

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K. OVERLAPPING ROUTE DATA

*5. MAINTENANCE RESPONSIBILITY

If the overlapping function is maintenance responsibility, enter the appropriate code below along with corresponding code, if applicable, under Item K-1, K-2 or K-3 above.

Code

- (1) State
- (2) County
- (3) City
- (4) Federal Agency
- (5) Metropolitan Park District
- (6) Tollway Agency
- (7) Private
- (8) Other

*6. BRIDGE OWNERSHIP

1

If the overlapping function applies to bridge ownership, enter the appropriate code below along with corresponding code, if applicable, under Item K-1, K-2 or K-3 above.

Code

- (1) State
- (2) County
- (3) Township
- (4) Municipal
- (5) Metropolitan Park District
- (6) Federal Agency
- (7) Tollway Agency
- (8) Railroad
- (9) Private
- (0) Other

*7. TRAFFIC ENFORCEMENT

If the overlapping function applies to traffic enforcement, enter the appropriate code below along with corresponding code, if applicable, under Item K-1, K-2 or K-3 above. No. Spaces

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K. OVERLAPPING ROUTE DATA

Code

- (1) State
- (2) County
- (3) Municipal
 (4) Federal Agency
- (5) Private
- (6) Other

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