Kimley-Horn and Associates, Inc.

South Dade, Palmetto and East-West Expressways

DADE COUNTY, FLORIDA

Prepared for:

FLORIDA DEPARTMENT OF TRANSPORTATION

HOV Conceptual Design Study

INTERIM REPORT #1

COPO SECRETARIO



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CHAPTER I - INTRODUCTION

BACKGROUND

The Florida Department of Transportation (FDOT) has taken an active role over the past ten years in the planning, development and implementation of High Occupancy Vehicle (HOV) Operations. One of the Department's recent accomplishments was the preparation of a Statewide HOV Study which identified ten new corridors in Florida with high potential for HOV operations. A need exists, therefore, to prepare a conceptual design for feasible HOV preferential treatments for each of the corridors. The South Dade, Palmetto and East-West Expressway corridor is one of the ten identified as potentially feasible.

PURPOSE OF STUDY

The purpose of the project is to prepare a conceptual design for feasible HOV preferential treatments for the South Dade, Palmetto and East-West Expressway corridor that can best meet the following objectives:

- Reduce corridor congestion
- Decrease travel time
- o Increase corridor passenger capacity through increased vehicle occupancy in automobiles, vans and public transit buses
- Conserve energy
- Improve air quality
- o Improve safety

The overall objective of this project is to produce a conceptual design for feasible HOV preferential treatments in the Dade County Expressway HOV Study corridor. The conceptual design will be sufficiently detailed to allow subsequent design of feasible HOV improvements by the FDOT.



CHAPTER II - EXISTING CONDITIONS

SOCIO-ECONOMIC CONDITIONS

Summary of Planning Data

For analysis purposes, the study area is divided into four distinct subareas. The approximate boundaries of these subareas are:

<u>Subarea A</u> - U.S. 27 on the north and east, the East-West Expressway on the south, and the Dade County line on the west.

<u>Subarea B</u> - I-95 on the east, U.S. 1 on the south, Ludlam Road on the west, and the East-West Expressway on the north.

<u>Subarea C</u> - The East-West Expressway on the north, Ludlam Road on the east, and North Kendall Drive on the south.

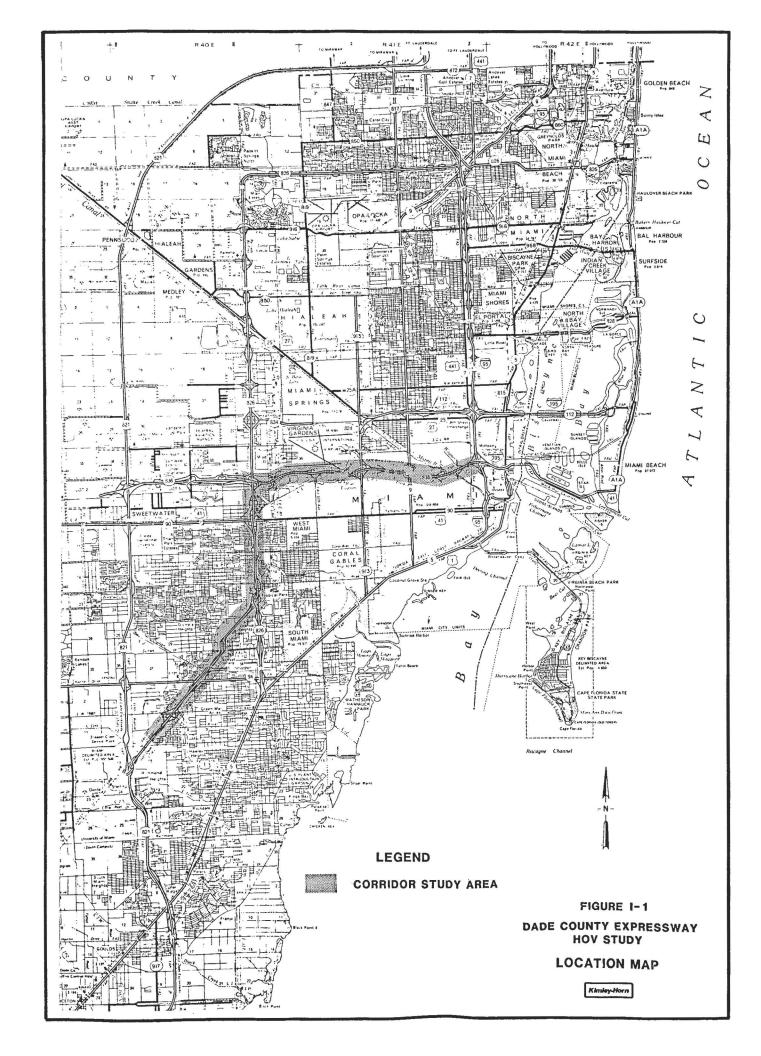
<u>Subarea D</u> - North Kendall Drive on the north, U.S. 1 on the east and south, and the Dade County line on the west.

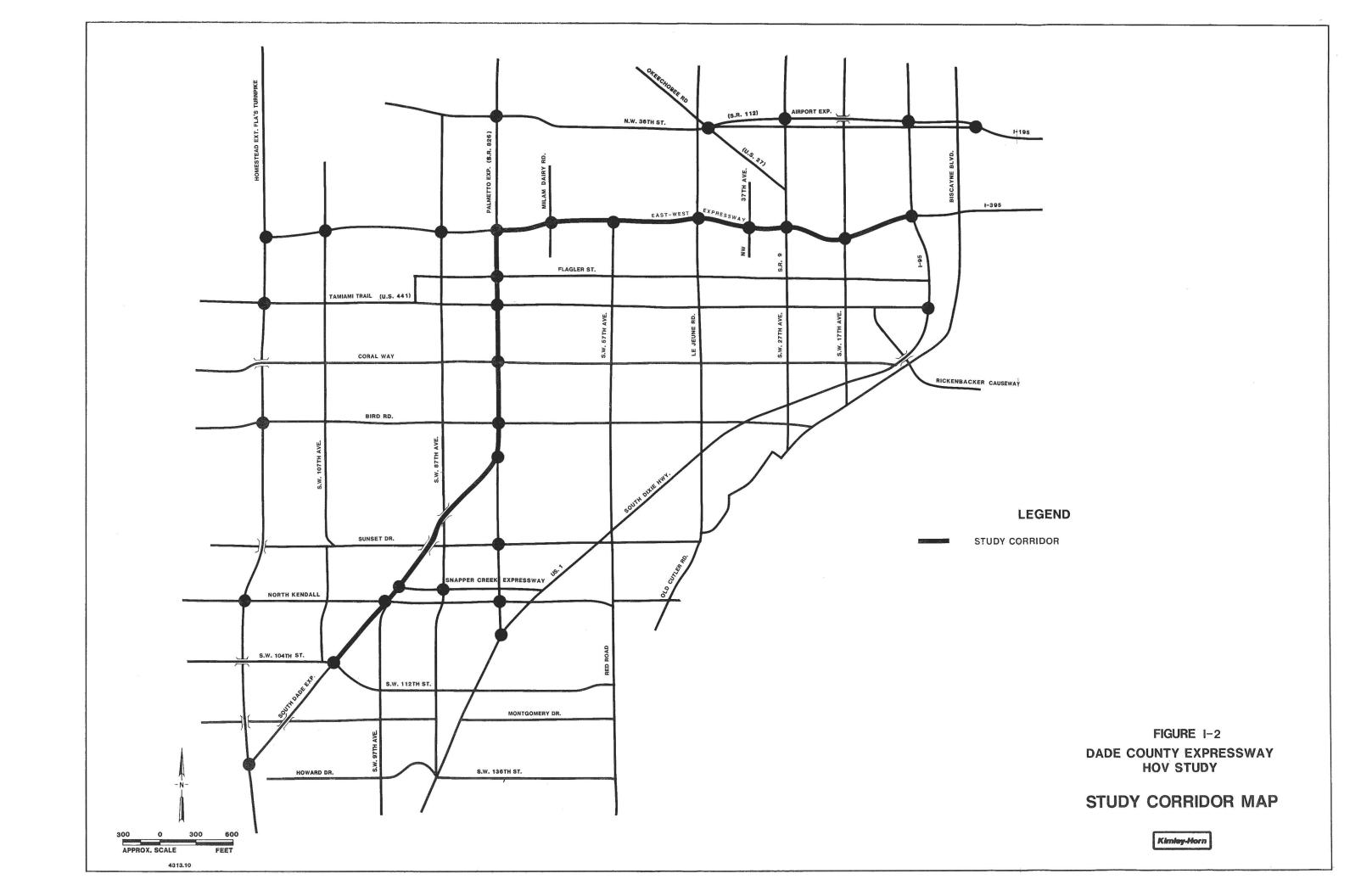
Subarea boundaries for the study area were selected based on their potential use of the corridor. Subarea A is located to the north of State Road 836 and will utilize State Road 836, but will seldom utilize State Road 826 and State Road 874. Subarea B, located south of State Road 836 and east of Ludlam Road (SW 67th Avenue) has little impact on traffic along the study corridor. The majority of this traffic will move easterly, and not utilize facilities on the study corridor to the north and west. Subarea C is located to the west of State Road 826 and trips generated in this area

STUDY AREA

The Dade County Expressway HOV study corridor is approximately 17 miles in length, running northeast and southwest along State Road 874 from the State Road 874/SW 104th Street interchange to the State Road 874/State Road 826 interchange, north and south on State Road 826 to the State Road 826/State Road 836 interchange, and east and west along State Road 836 to the I-95/I-395 interchange (see Figures I-1 and I-2). The corridor boundaries, for data collection purposes, include NW 36th Street and Okeechobee Road on the north, U.S. 1 on the south, the Dade County line on the west, and the Miami commercial business district on the east.

This corridor consists of divided, multiple-lane, limited access highway with a minimum of two lanes to a maximum of five lanes in each direction. Right-of-way for the corridor, outside of interchange areas, ranges from 140 to 270 feet. One toll booth is located within the corridor on State Road 836 between SW 27th Avenue and SW 17th Avenue. Nine lanes are used for toll collection. Tolls are collected in the eastbound direction only. A second toll booth, with collection lanes in both directions, is located just south of the study corridor on State Road 874.







GOALS AND OBJECTIVES

The goals and objectives of this study are:

(1) Provide Efficient, Economical Transportation

Objectives: Minimize Travel Time
Minimize Travel Costs

(2) Provide a Safe System

Objectives: Minimize Accidents

Enhance Enforcement Capability

(3) Improve Corridor Person-Trip Capacity

Objectives: Maximize Ridesharing Opportunities

Maximize Transit Service and Opportunities

Improve and/or Control Traffic Flow Conditions

Increase Roadway Laneage

(4) Enhance Environmental Considerations

Objectives: Minimize Air Pollution

Minimize Adverse Travel

Improve Travel Times
Minimize Noise Impacts

Reduce Corridor Congestion

(5) Enhance Employment Opportunities

Objectives: Improve Accessibility to CBD

Increase Transit Coverage

(6) Minimize Transportation Costs

Objectives: Minimize Systemwide Capital Costs

Minimize Systemwide Operating Costs

Minimize Maintenance Costs



METHODOLOGY

An overview of the study methodology is given in Figure I-3. A detailed outline of specific tasks and study time table is provided in Figure I-4.

STUDY OUTLINE

The following study outline is listed by tasks:

PHASE I

- Task 1 Organization of Study and Refinement of Study Methodology
- Task 2 Collection of required planning, roadway, traffic, and transit data from on-site visits and field surveys to establish a data base for the conceptual design.
- Task 3 Critique of existing traffic, transit, ridesharing, and roadway conditions in the corridor to identify opportunities and constraints for HOV preferential treatment improvements.
- Task 4 Identification of HOV preferential treatments that have sufficient opportunity to enhance automobile occupancy.
- Task 5 Evaluation of the benefits and costs of feasible HOV preferential treatments and recommendation of an optimized system of HOV preferential treatments for implementation.

PHASE II

- Task 6 Development of conceptual design details for HOV preferential treatments including traffic, lane use, signalization, transit, ridesharing, and Park-and-Ride requirements along with estimates of capital and operating costs.
- Task 7 Preparation of a draft and final conceptual design study report.

DEVELOP DETAILED CPM ANALYSIS PROCEDURES AND **COORDINATION PLAN**

REVIEW WITH FDOT AND REVISE AS NEEDED

REVIEW WITH PROJECT ADVISORY GROUP (PAG) AND REVISED AS NEEDED

DEVELOP GOALS, **OBJECTIVES** EVALUATION CRITERIA

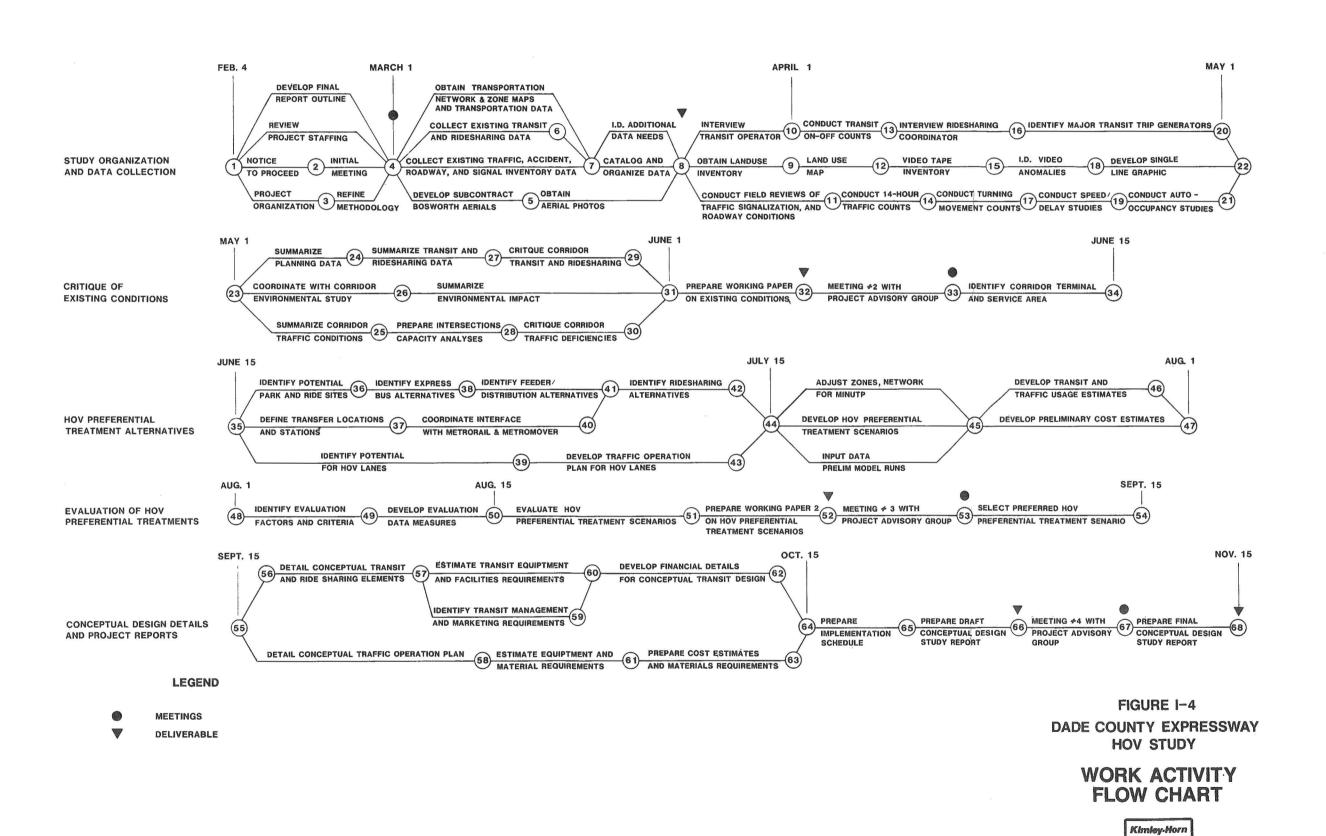
DEVELOP CONCEPTUAL ALTERNATIVES

REVIEW WITH PAG AND REVISE AS NEEDED

EVALUATE ALTERNATIVES DOCUMENTATION AND REVIEW WITH FDOT AND PAG

REVIEWS WITH PAG AND FDOT

FIGURE I-3 - METHODOLOGIES/PROCEDURES



EVALUATION CRITERIA

Listed below are the evaluation criteria to be used in this study:

Impact on Corridor

- traffic operations and control
- total person throughput
- total person travel time
- impact on parallel facilities
- impact on general traffic
- auto occupancy level
- speed/flow relationships on existing HOV system
- volumes/diversions
- HOV priority index (HOVPI)

Impact on User

- travel time
- travel cost
- passenger movement index (PMI)

Impact on Non-User

- travel time
- travel cost
- trip diversions
- enforceability

Impact on Community

- public officials attitudes
- public acceptance/attitudes
- parking availability
- vehicle circulation
- residents
- business/retail sales
- relocations/displacements
- compatibility with long-range transportation plan
- motorist comprehension
- public facilities



Impact on Environment

- wetlands
- energy consumption
- air quality
- noise level
- sensitive sites, parks, etc.

Impact on safety

- accident rate
- accident type
- accident severity
- enforceability

Impact on HOV Operations

- travel time
- bus ridership
- load factors bus
- schedule reliability
- park-ride utilization

Impact on Costs

- operating cost
- maintenance cost
- enforcement cost
- assembly/disassembly cost
- sunk cost
- cost effectiveness

Impact on Implementation Schedule

- right-of-way requirements
- public acceptance
- legal and jurisdictional arrangements
- procurement requirements

Accessibility Measures

- number of access points
- market areas served
- Metrorail access
- Metromover access



will be attracted to State Road 826 and State Road 836. Subarea D will impact the entire corridor, since many trips originating in the southwest will travel via State Road 874/826/836 to destinations such as the airport, Civic Center area, Omni area and the downtown area (see Figure II-1).

Demographic Characteristics

Based on data provided by the Metro-Dade County Planning Department, the demographic characteristics of the four subareas are summarized below.

Subarea A

As expected from the predominant non-residential land uses, Subarea A was the least populated in the study area (1.86 percent of the total County population) in 1980 and is projected to remain the least populated. Also as expected, Subarea A had the most employees (12.74 percent of the County total) in 1980. This dominance is projected to continue through 1990 (see Table II-1). The mean 1980 income for residents was 6.6 percent above the County mean income of \$20,736 (see Table II-2). Of the four study subareas, residents of Subarea A had the most autos available (one auto per 1.5 persons versus the County average of one auto per 1.96 persons). As indicated in Table II-3, this ratio is projected to decrease in 1990 to one auto per 1.72 persons and to rise again by 2005 to one auto per 1.56 persons.

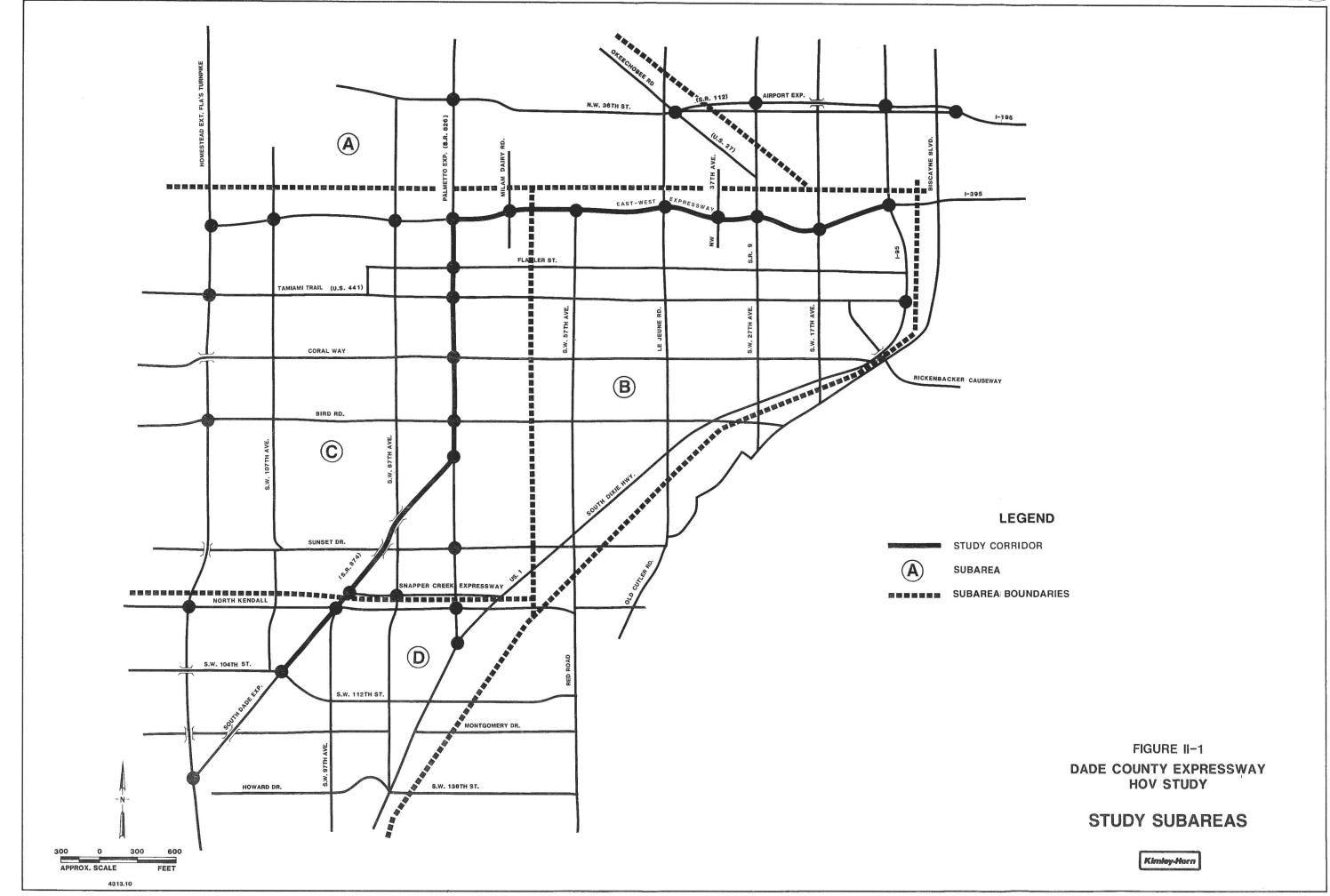


TABLE II-1
POPULATION AND EMPLOYMENT PROJECTIONS*

	Subarea A	Subarea B	Subarea C	Subarea D	Study Area
1980 Census Population	30,204	220,821	217,119	154,358	622,502
Employment	91,316	87,226	48,534	41,135	268,211
1990 Projection					
Population	35,329 (+17.0%)	243,613 (+10.3%)	287,764 (+32.5%)	224,176 (+45.2%)	790,882 (+27.0%)
Employment	120,870 (+32.4%)	93,205 (+6.9%)	67,690 (+39.5%)	63,155 (+53.5%)	344,920 (+28.6%)
2005 Projection					
Population	50,850(+68.4%)	248,370 (+12.5%)	343,982 (+58.4%)	281,273 (+82.2%)	924,475(+48.5%)
Employment	107,725 (+18.0%)	115,785 (+32.7%)	79,475 (+63.8%)	82,400 (+100.0%)	385,385 (+43.7%)

^{*}Source: Metropolitan Dade County Planning Department

^{() =} Change since 1980.



TABLE II-2
STUDY AREA MEAN INCOME AND MEDIAN AGE*
BY 1980 CENSUS TRACT

	Mean Income	Median Age (Years)
Subarea A	\$ 22,109	34.7
Subarea B	19,796	42.8
Subarea C	25,840	31.9
Subarea D	23,806	27.4
Dade County	20,736	

^{*}Source: Metropolitan Dade County Planning Department

TABLE II-3
AUTOMOBILES PER PERSON*

	1980 Census	1990 Projection	2005 Projection
Subarea A	1/1.51	1/1.72	1/1.56
Subarea B	1/2.00	1/2.20	1/2.20
Subarea C	1/1.78	1/1.63	1/1.50
Subarea D	1/1.81	1/1.78	1/1.75
Dade County	1/1.96	1/1.95	1/1.91

^{*}Source: Metropolitan Dade County Planning Department



Subarea B

Subarea B was the most populated subarea in the study corridor in 1980, with 13.59 percent of the County's population. This percentage is projected to decrease through 2005, however. Similarly, the percentage of employees in Subarea B is projected to decrease (see Table II-1). While 12.17 percent of the County's employees worked in the area (see Table II-1), the mean income was 4.7 percent below the County mean income (see Table II-2). This occurrence might be explained by the high median age in relation to the other subareas (see Table II-2). Residents had approximately the same ratio of automobiles per person as the County average (see Table II-3). This ratio, however, is expected to increase, with one automobile projected for each 2.2 persons in 2005.

Subarea C

The population of Subarea C, 13.36 percent of the County total in 1980, is projected to increase slightly through 2005, making Subarea C the most heavily populated (see Table II-1). The percentage of Subarea C employees to the total number of County employees is projected to remain relatively stable through 2005. Residents enjoyed the highest mean income in the study, 24.6 percent above the County mean income (see Table II-2) and also had more automobiles available than the County average; the number of automobiles is projected to increase through 2005 (see Table II-3).

Subarea D

Residents of Subarea D were the youngest in the study area in 1980 and had a mean income 14.8 percent above the County mean (see Table II-1). The population and the number of employees are both projected to increase through 2005, with relatively small percentage increases based on County population and employment (see Table II-2). The number of automobiles per person is projected to increase through 2005, remaining higher than the County average (see Table II-3).

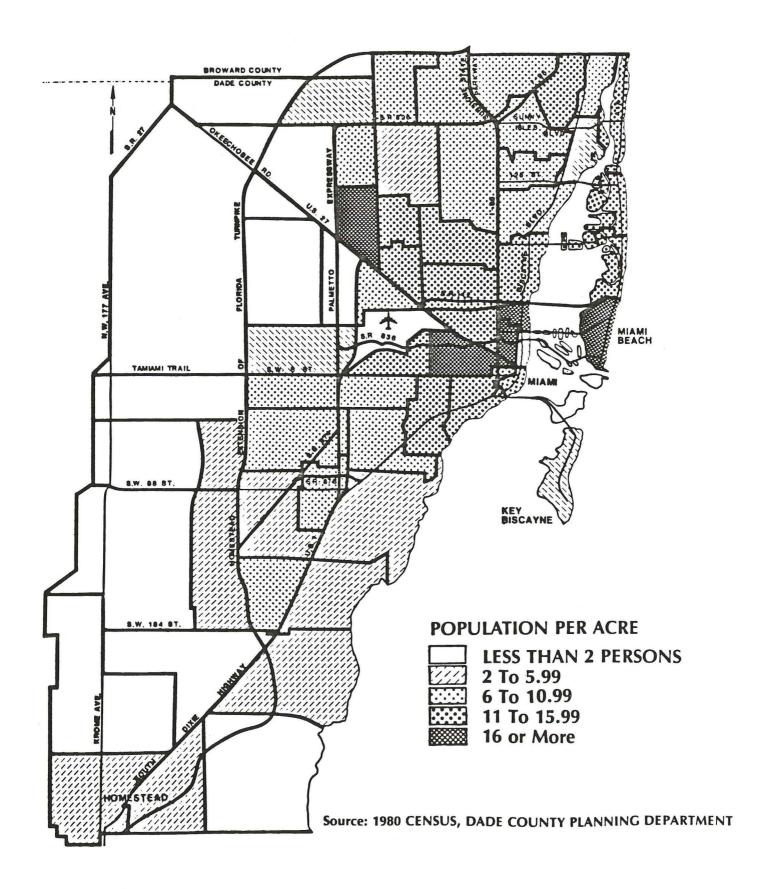
Figures II-2 through II-6 show county-wide population and employment density for the years, 1980 and 2005 and show employment change patterns for the County. Figures II-2, II-3, II-4 and II-5 were taken from the Metro Transit Expansion Study by the Metro Dade Transportation Administration. Figure II-6 was taken from the Metro-Dade Transportation Plan by the Metropolitan Planning Organization of Dade County.

Existing Land Use

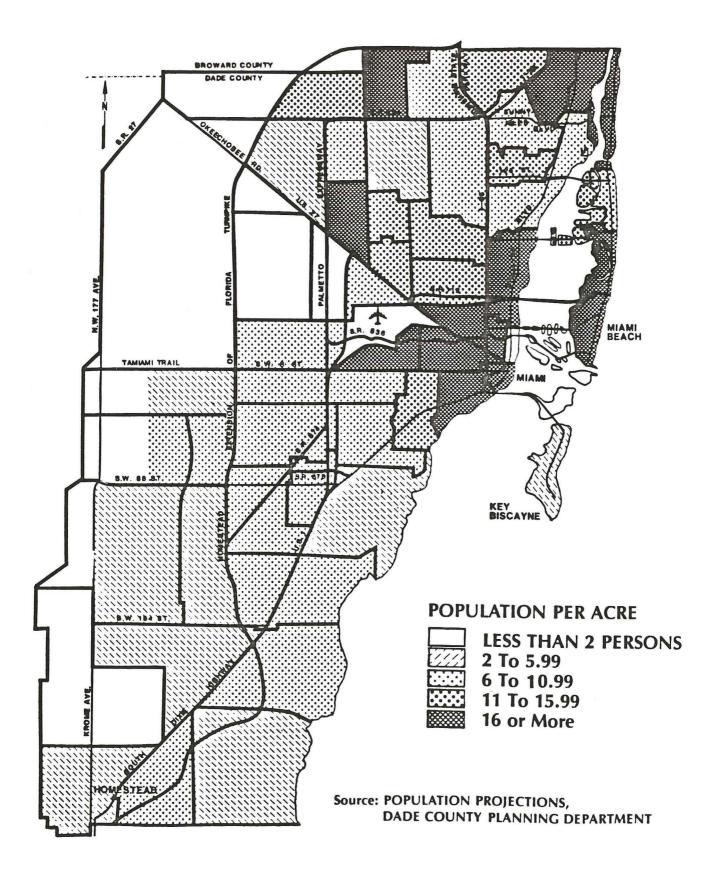
With the exception of Subarea A, which includes Miami International Airport and related industries as the major land uses, the majority of the study area is composed of residential developments of varying densities. Concentrated commercial and office centers are located along the Palmetto and East-West Expressways to serve the needs of nearby residents. The areas surrounding Florida International University and the University of Miami are distinct examples of non-residential land uses.

Major Trip Generators

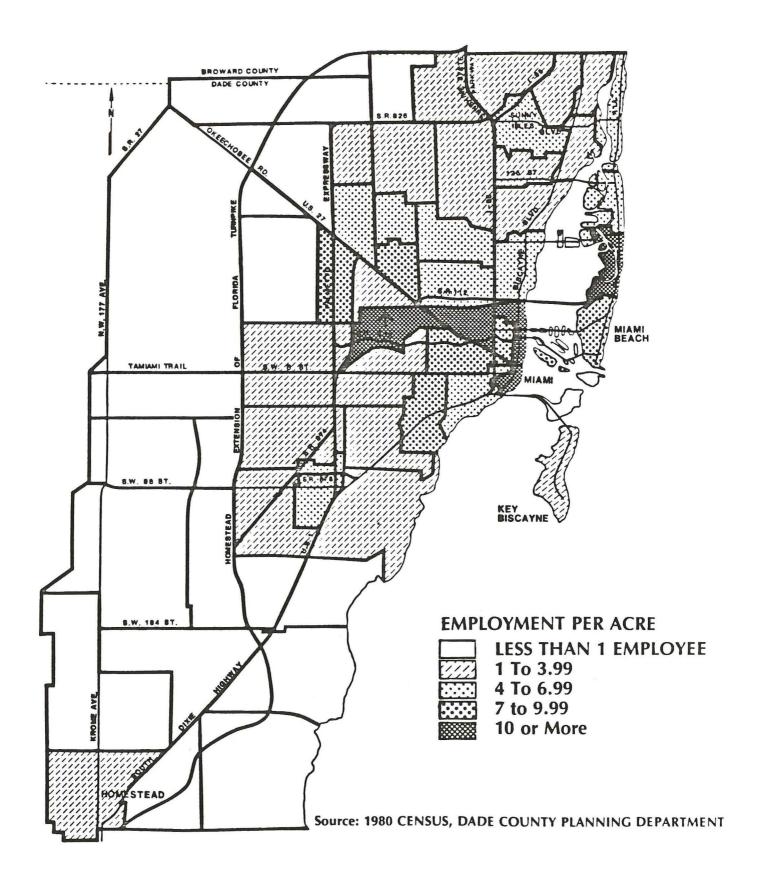
Based on a field study, reviews of aerial photography, the West Dade Task Force Report, and the Adopted Land Use Plan, major trip generators in the study area have been identified. As indicated on Figure II-7, generators are concentrated along State Road 836 in the vicinity of Miami International Airport, and in the Miami Central Business District. A tabular summary of these generators is included in Table II-4.



1980 Population Densities for Dade County



2005 Population Densities for Dade County



1980 Employment Densities for Dade County

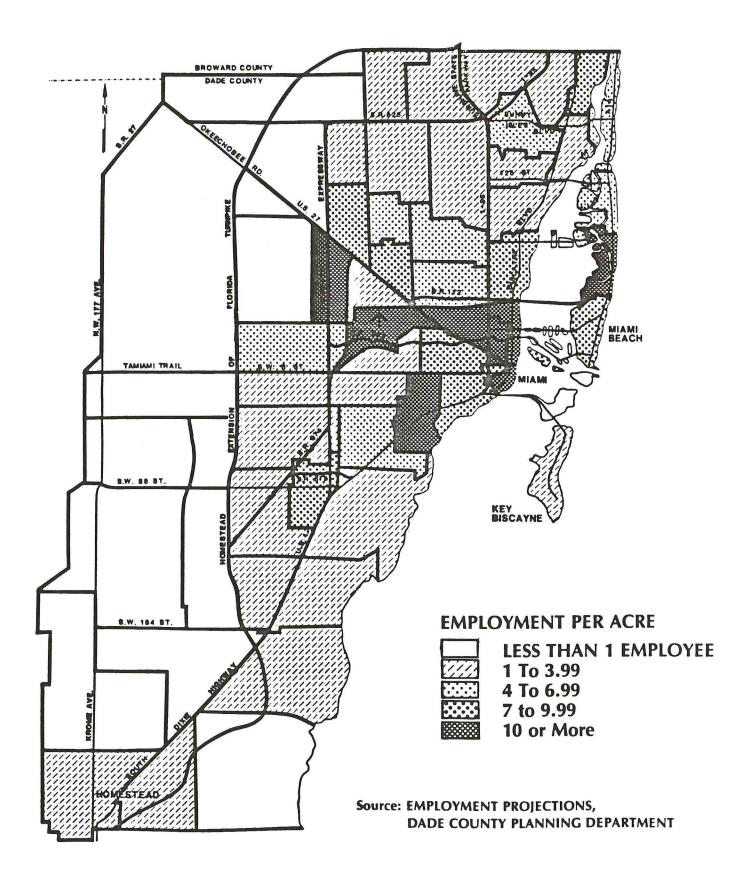
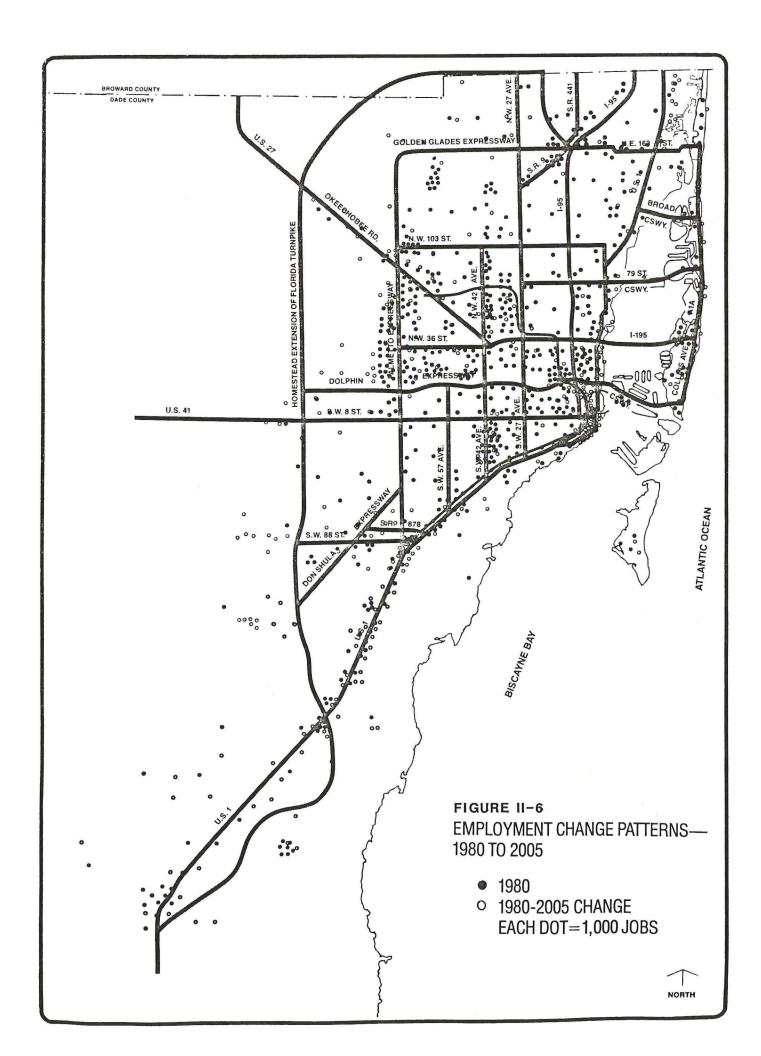
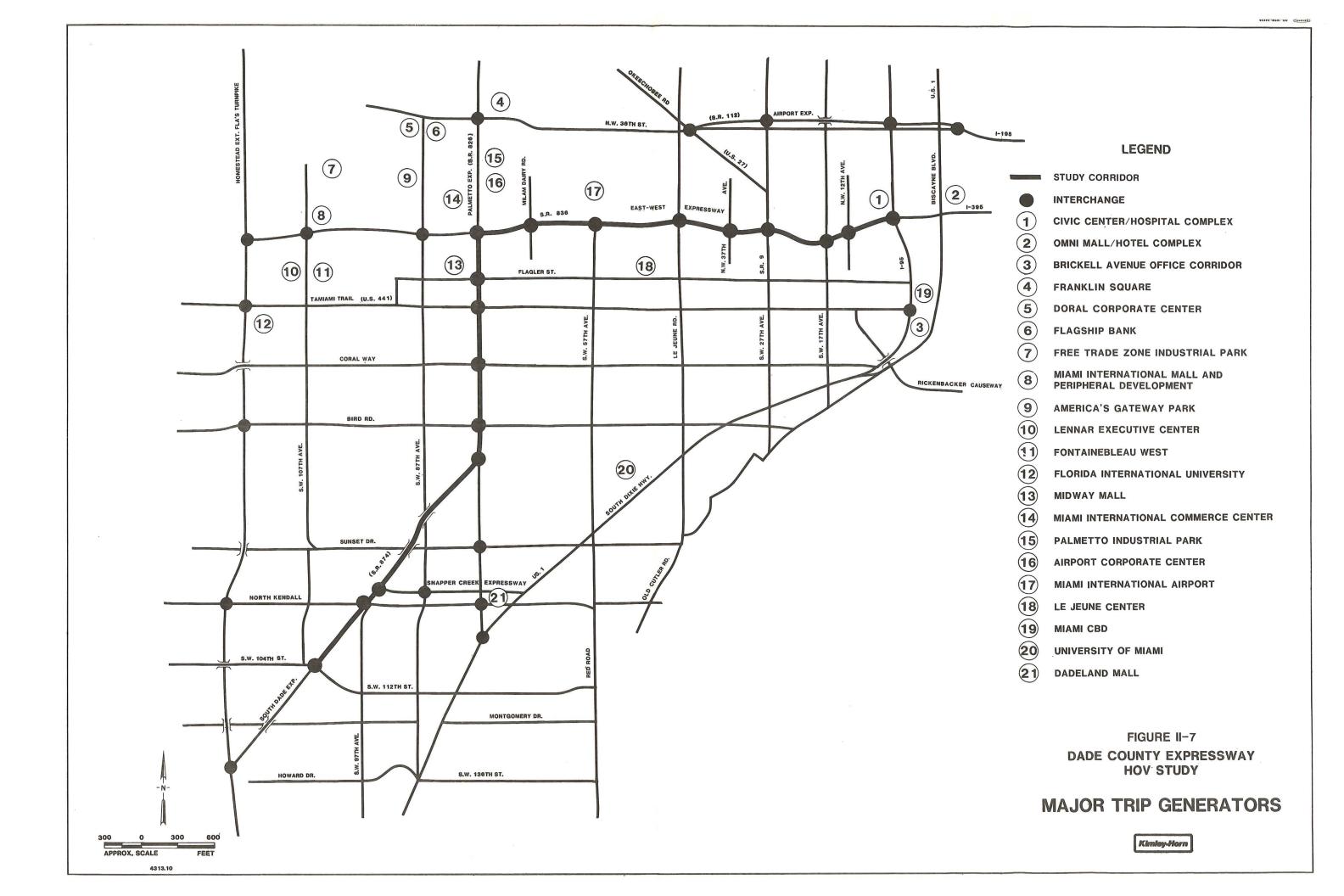


FIGURE II-5

2005 Employment Densities for Dade County



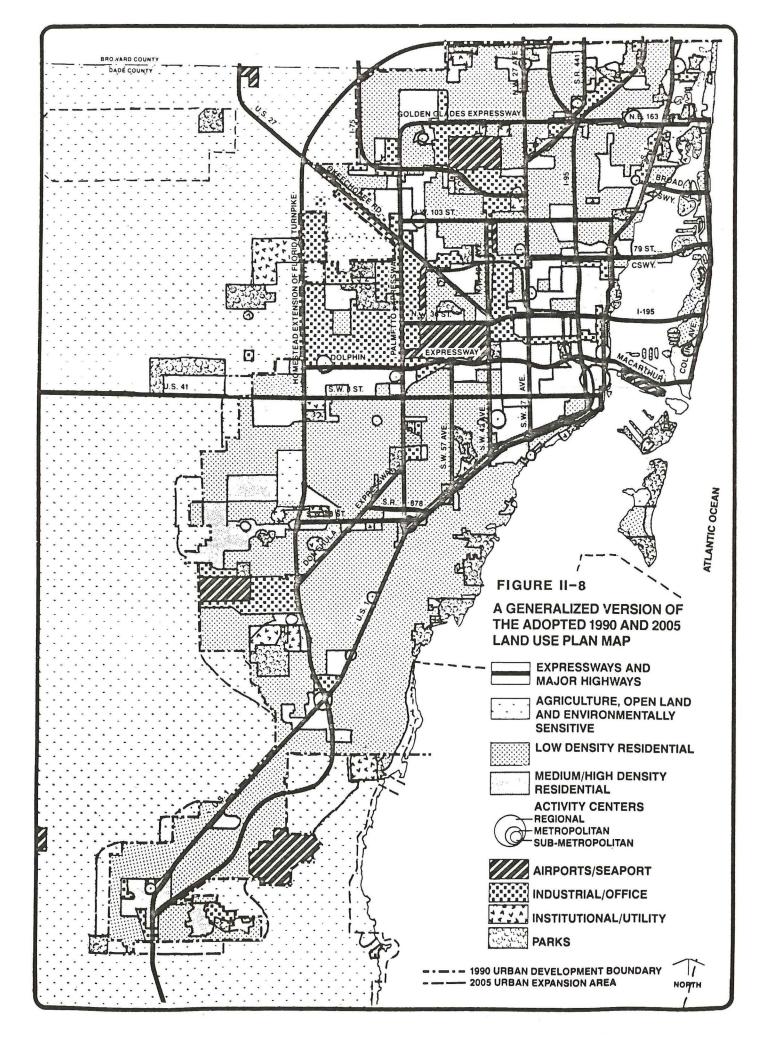




Future Land Use

The Adopted Land Use Plan of the Comprehensive Development Master Plan for Metro-Dade County provides a generalized depiction of future land uses throughout the County. Based on a review of the Adopted land Use Plan and its accompanying text, the major land uses in the study area are expected to be similar to existing land uses. A number of Activity Centers, defined as "main hubs for future urban development", which will provide a mixture of commercial, office and residential uses, are located throughout the study area, generally near intersections of major arterials. The activity centers in the area are expected to be of sub-metropolitan impact, except for those activity centers located at the U.S. 1/Homestead Turnpike Extension interchange, U.S. 1/North Kendall Drive, Coral Way/SW 37th Avenue and NW 107th Avenue/East-West Expressway intersections, which are expected to have a greater influence on the metropolitan area.

Figure II-8 (taken from the <u>Metro-Dade Transportation Plan</u>, <u>Metropolitan Planning</u> Organization) shows land use for 1990 and 2005 for the County.





ENVIRONMENTAL CONDITIONS

Due to the urbanized nature of the study corridors and the fact that proposed alternatives are expected to be contained within existing right-of-way, it is anticipated that few environmental parameters will be impacted. Those impacted may include:

<u>Air Quality</u> - The most recent air quality data available for the corridor area indicates that in 1982 incidents exceeding the Carbon Monoxide Standard occurred at Monitoring Stations 41 (2201 SW 4th Street) and 42 (NE 1st Avenue/Flagler Street). In addition, the monitored lead level at Station 44 (State Road 826/SW 4th Street) equaled the standard.

Noise - The major source of noise in the corridor is vehicular traffic on State Road 826, 836, and 874, major arterials in the area, and the Miami International Airport.

<u>Water Quality</u> - Impacts on the Miami River, Glide Angle Lake and the Snapper Creek Canal in the Study area result mainly from pollutants carried in stormwater runoff.

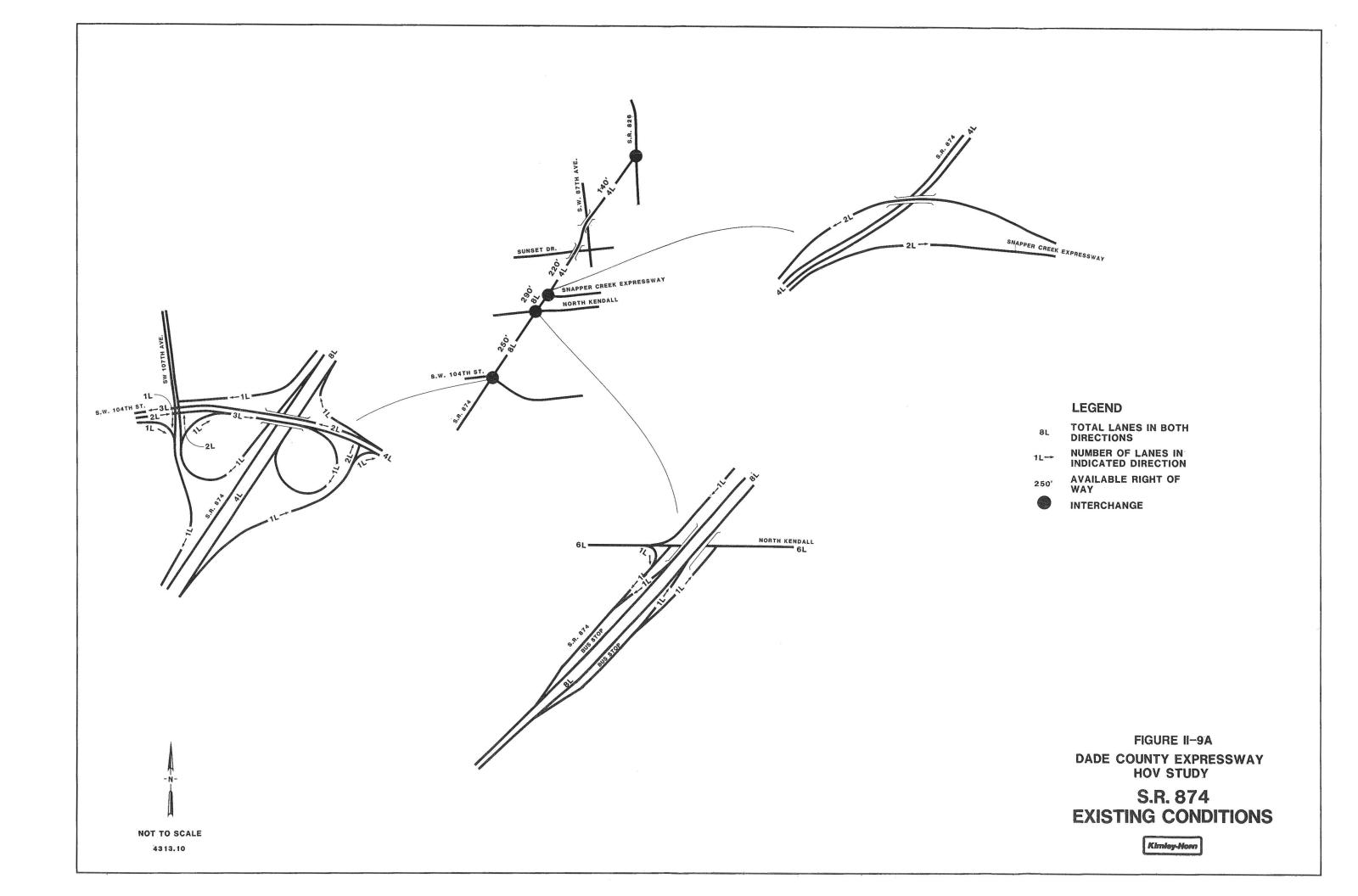
PHYSICAL CONDITIONS

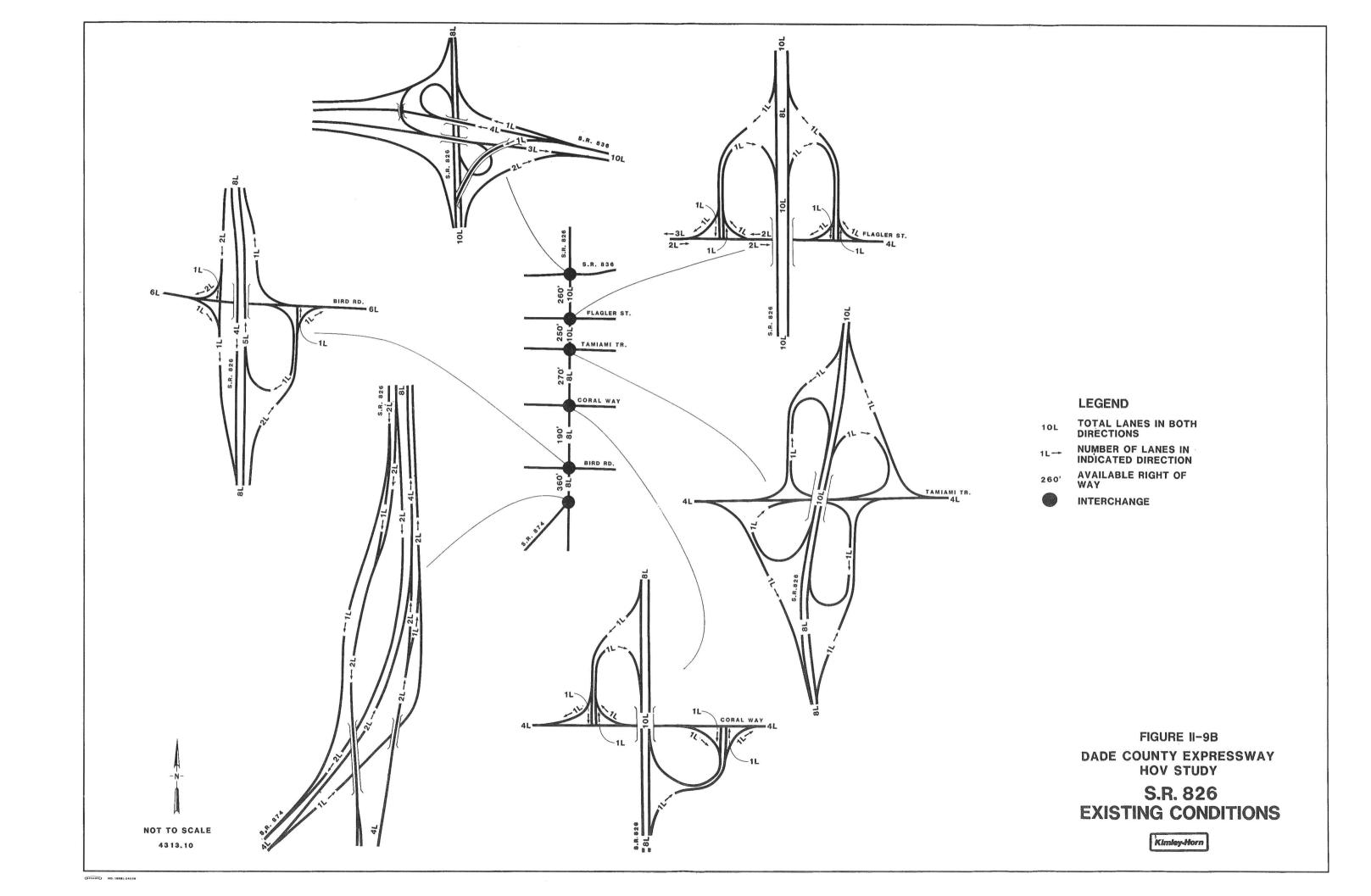
The study corridor consists of the South Dade Expressway (State Road 874), the Palmetto Expressway (State Road 826) and the East-West Expressway (State Road 836) from SW 104th Street in southwest Dade County to I-95 on the east. The existing number of lanes on a graphic illustration of the entire corridor is shown on Figures II-9A, II-9B and II-9C.

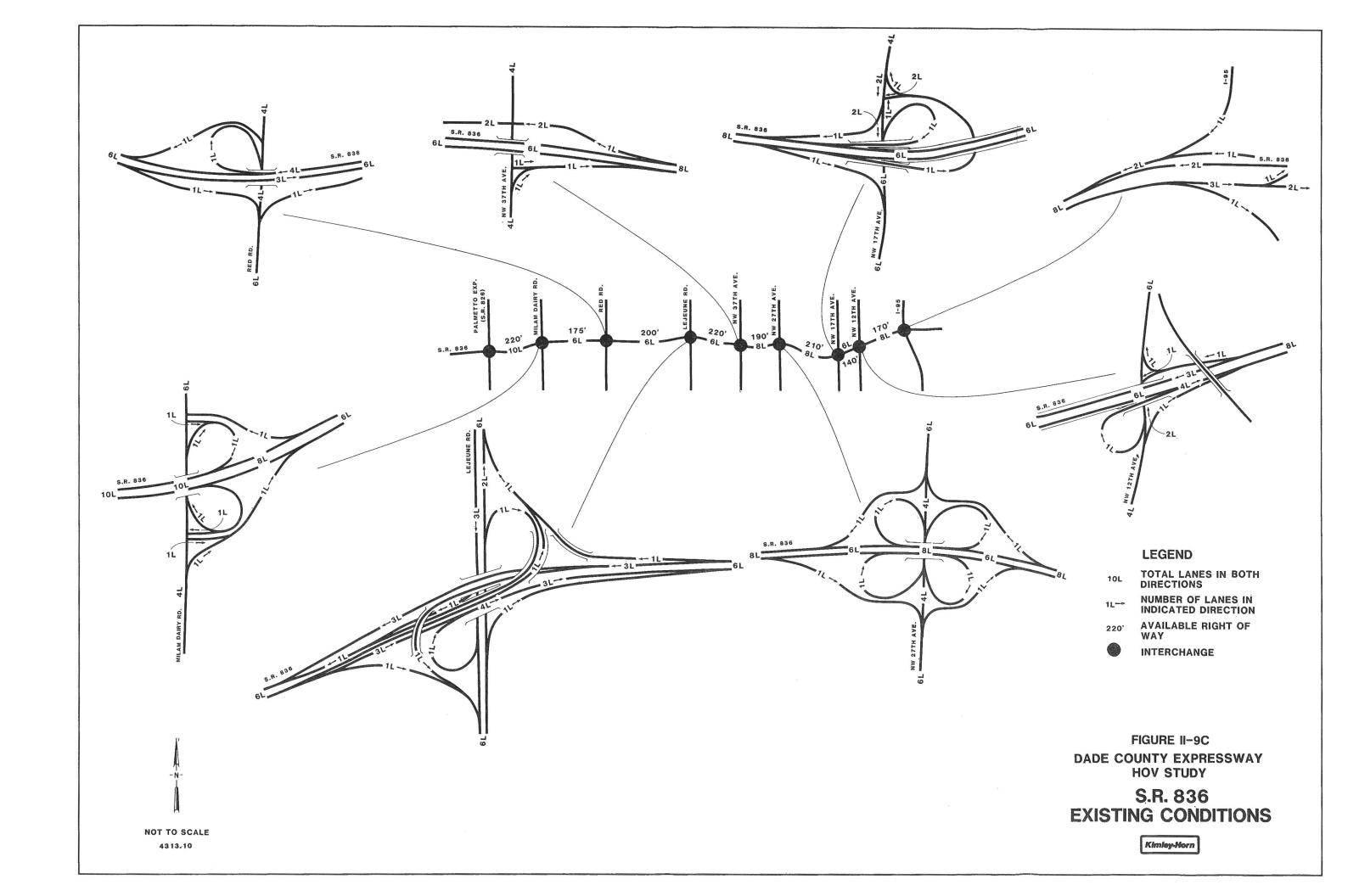
South Dade Expressway (State Road 874)

The South Dade Expressway at SW 104th Street is an 8-lane divided highway with a 40-foot median and 250 feet of right-of-way. South of the interchange with SW 104th Street, State Road 874 is 4-lane divided highway with a 70-foot median and 250 feet of right-of-way. At the interchange with SW 104th Street, the expressway widens into the median by one lane and adds a lane from the northbound on-ramp from SW 104th Street. The interchange is a combination cloverleaf and diamond design. The interchange utilizes two separate off-ramps for southbound traffic. The first exit is for northbound SW 107th Avenue only and the second is for eastbound or westbound SW 104th Street. These ramps meet at the intersection of SW 104th Street and SW 107th Avenue, but are physically separated.

The 8-lane divided section continues with a 40-foot median and 250 feet of right-of-way to the interchange with North Kendall Drive. Exits to Kendall Drive can be made only from the northbound direction. Southbound traffic on State Road 874 is unable to exit onto North Kendall Drive at this location. The FDOT is presently developing plans to provide an exit for North Kendall Drive along the existing exit from the Snapper Creek Expressway (State Road 878). Preliminary plans were furnished by FDOT for input into the study. Entries onto State Road 874 from North Kendall Drive can be made only in the southbound direction.









Bus turn-outs are located on each side of the interchange south of North Kendall Drive. These turn-outs allow buses to drop off or pick up passengers without having to exit State Road 874.

The eight-lane divided section continues to the Snapper Creek Expressway, where two lanes are dropped from both sides as off-ramps to Snapper Creek. The interchange with Snapper Creek Expressway consists of a two-lane off-ramp from northbound State Road 874 and a two-lane on-ramp to southbound State Road 872. A four-lane divided section continues northbound with a 50-foot median and 220 feet of right-of-way.

State Road 874 does not have an interchange with Sunset Drive. Directly north of the overpass are bus turn-outs for each side. State Road 874 begins to lose median approximately 3,800 feet south of the overpass for Miller Drive, turning State Road 874 into a 4-lane roadway with a "New Jersey" type barrier used for directional separation.

Palmetto Expressway (State Road 826)

The next interchange is State Road 874 and Palmetto Expressway. State Road 826 and State Road 874 are grade separated allowing direct connections between the two. State Road 826 is an 8-lane roadway in this area with a "New Jersey" type barrier used for directional separation. The right-of-way is 360 feet from State Road 874 to Bird Road.

At the next interchange at Bird Road, there are five lanes northbound and four lanes southbound. The interchange is a combination cloverleaf and diamond design with full access to and from State Road 826 and Bird Road. The 8-lane section continues north to the next interchange with Coral Way, which is also a combination clover leaf and diamond design with full access. The right-of-way between Bird Road and

Coral Way is 190 feet. At the interchange with Coral Way the section is widened to ten lanes to accommodate the ramps, but is again reduced to an eight-lane section out of the interchange.

The next interchange is Tamiami Trail which is a full cloverleaf. The right-of-way from Coral Way to Tamiami Trail is 290 feet. At the interchange there are five lanes in each direction and State Road 826 remains a 10-lane section to the north.

Flagler Street is the next interchange. The 10-lane section is reduced to an eight-lane section at the interchange but is immediately picked back up to a 10-lane section to the north. The right-of-way between Tamiami Trail and Flagler Street is 250 feet.

East-West Expressway (State Road 836)

The final interchange along State Road 826 in the corridor is with the East-West Expressway. State Road 826 is reduced to a 6-lane roadway at the interchange, but is increased to an 8-lane section to the north. Traffic on northbound State Road 826 is allowed to go only eastbound on State Road 836; no connection is provided for State Road 836 westbound. The eastbound traffic has a 2-lane ramp. Westbound traffic on State Road 836 has ramps for both north and southbound State Road 826. Traffic on westbound State Road 836 has an option of using either of two separate ramps for the southbound movement. The first ramp is a single "direct-connect" left exit from State Road 836, which enters into the median of State Road 826 and merges to the right. The second ramp is an auxiliary ramp for exits to Flagler Street and Tamiami Trail, located a short distance from the interchange with desirable weaving distance involved. This ramp originally served all southbound movements from westbound State Road 836, but the direct "fly-over" ramp was added later to improve capacity and safety. Exits to Flagler Street and Tamiami Trail are prohibited on the first ramp by a "New Jersey" type barrier. The right-ofway between Flagler Street and State Road 836 is 260 feet.



From the interchange of State Road 826 and State Road 836, the section remains ten lanes to Milam Dairy Road with 220 feet of right-of-way and a "New Jersey" type barrier for directional separation. At the interchange, the 10-lane section is reduced to an 8-lane section, and approximately 1,200 feet from Milam Dairy Road is reduced to a 6-lane section at the Seaboard Coastline Railroad crossing. A median of 30 feet is provided east of Milam Dairy Road for 2,000 feet and is then separated by a "New Jersey" type barrier.

The interchange with Milam Dairy Road is a combination cloverleaf and diamond design with exits both eastbound and westbound. The 6-lane section remains through the next interchange, with Red Road.

The Red Road interchange is a combination cloverleaf and diamond design with limited access to and from State Road 836. Eastbound and westbound traffic on State Road 836 can exit only southbound on Red Road, while northbound traffic on Red Road can enter only westbound on State Road 836. Southbound traffic on Red Road is unable to access State Road 836. The right-of-way between Milam Dairy Road and Red Road is 175 feet. A 6-lane section remains from Red Road to Le Jeune Road, but widens to an 8-lane section approximately 200 feet west of Le Jeune Road.

Le Jeune Road has direct connect ramps for eastbound State Road 836 to northbound Le Jeune Road, and from northbound Le Jeune Road to westbound State Road 836. These two movements are made via a two-way ramp separated by a "New Jersey" type barrier. Southbound traffic on Le Jeune Road accesses westbound State Road 836 on a slip ramp to the left-hand lane of State Road 836. The right-of-way between Red Road and Le Jeune is 200 feet. The 6-lane section continues to NW 37th Avenue.

NW 37th Avenue has a partial diamond interchange with limited access. No eastbound exit (or access) from State Road 836 to NW 37th Avenue is provided. The



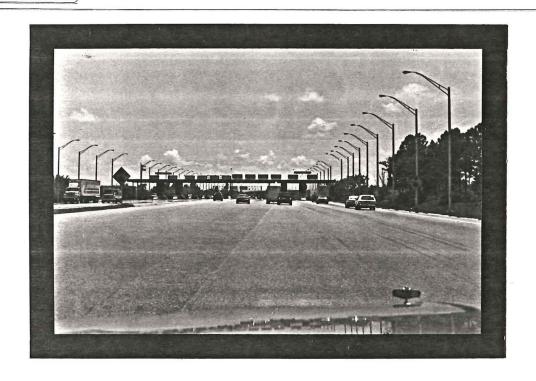
right-of-way between Le Jeune Road and NW 37th Avenue is 220 feet. The section widens from a 6-lane to an 8-lane roadway east of NW 37th Avenue to NW 27th Avenue. The interchange with NW 27th Avenue is a full cloverleaf. The right-of-way between NW 37th and NW 27th is 190 feet.

The next interchange, 17th Avenue, is a combination cloverleaf and diamond design with full access. The 8-lane section is reduced to six lanes at the interchange. The right-of-way from NW 27th Avenue to NW 17th Avenue is 210 feet. Between NW 27th Avenue and NW 17th Avenue is the eastbound toll plaza. The toll plaza widens into nine gates. The 6-lane section continues to the interchange with NW 12th Avenue.

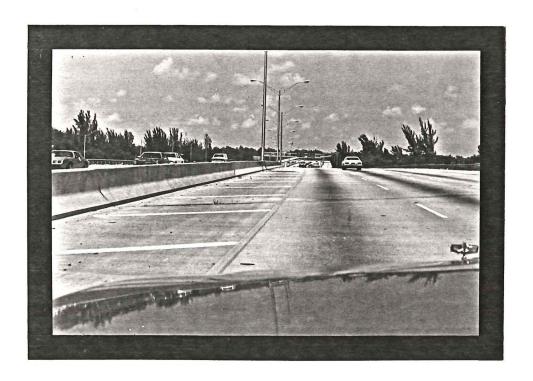
The NW 12th Avenue interchange is a combination cloverleaf and diamond design with limited access to and from State Road 836. Eastbound State Road 836 cannot exit and there is no on-ramp from NW 12th Avenue to westbound State Road 836. The right-of-way between NW 17th Avenue and NW 12th Avenue is 140 feet. The 6-lane section widens to an 8-lane section east of NW 12th Avenue.

The final interchange along the corridor on State Road 836 is with I-95. At the interchange with I-95, eastbound State Road 836 is separated into a 2-lane ramp for southbound I-95, a single ramp for northbound I-95, and two through lanes for I-395. For westbound State Road 836, a one-lane ramp from southbound I-95 and a 1-lane ramp from northbound I-95 connect to form a two-lane ramp from I-95; with two lanes from I-395, the total four lanes are formed. The right-of-way from NW 12th Avenue to I-95 is 170 feet.

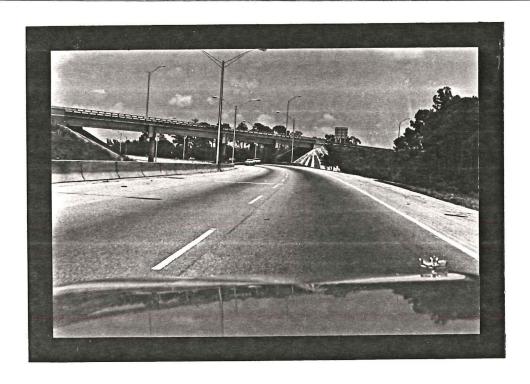
A photolog of the corridor follows.



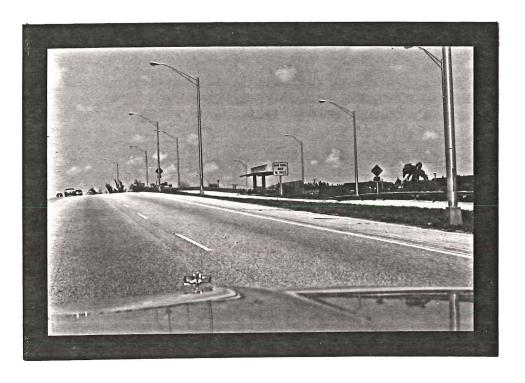
SR 874 TOLL PLAZA AREA



SR 874 BRIDGE SHOWING WIDE BRIDGE SHOULDER FOR FUTURE ADDITIONAL LANE



SR 874 AT SR 878 OVERPASS



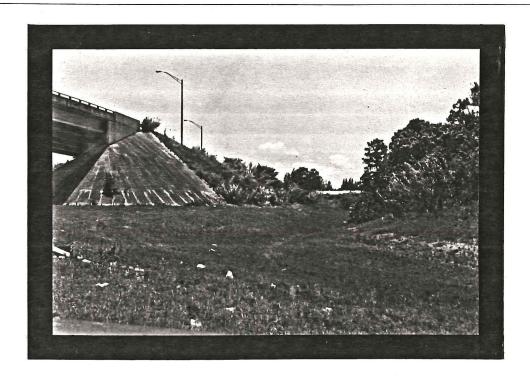
EXISTING OFF-LINE BUS/CARPOOL PASSENGER LOADING FACILTIY ON SR 874



SR 874 NORTHBOUND, APPROACHING SR 878 EXIT 8-LANE SECTION WITH 6-8 FOOT SHOULDERS



SR 874 AT SR 878 SHOWING 2-LANE LANE-DROP



DADE COUNTY PUBLIC WORKS DEPARTMENT PROPOSED LOCATION FOR SR 874 EXIT RAMP TO KENDALL DRIVE TO REDUCE CONGESTION ON SW 107 AVENUE EXIT (SR 874 SOUTHBOUND AT SR 878 OVERPASS)



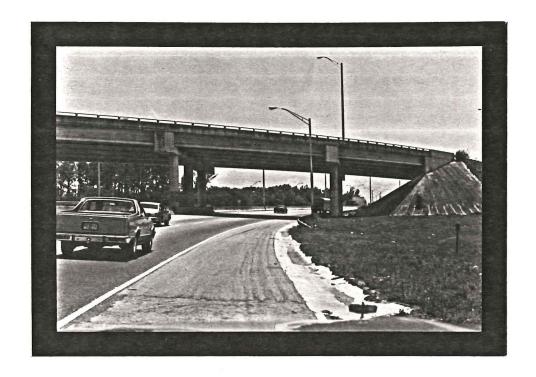
SR 878 ON-RAMP TO SR 874 NEAR KENDALL DRIVE SHOWING PROHIBITION OF KENDALL OFF-RAMP



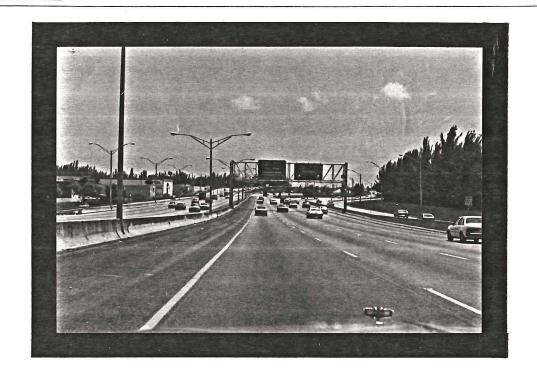
SR 874 8-LANE SECTION WITH GRASS MEDIAN



SR 874 4-LANE SECTION WITH GRASS MEDIAN



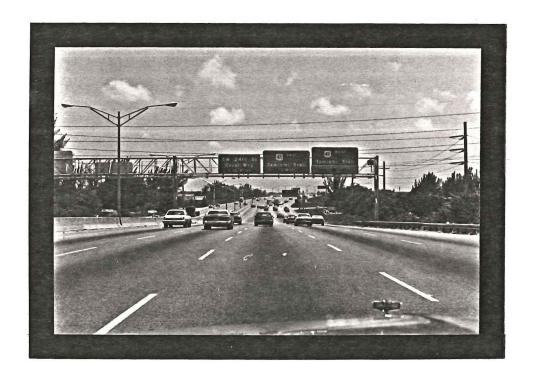
SR 878 OVERPASS OVER SR 874 SOUTHBOUND



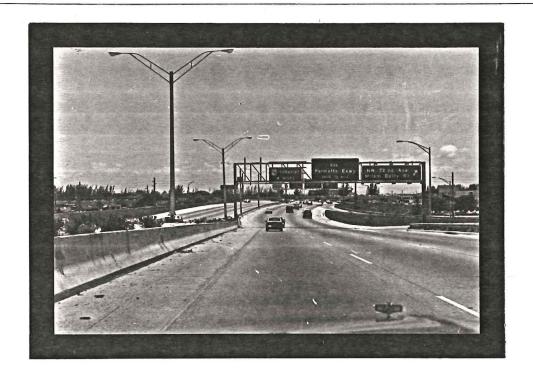
SR 874 EXIT FROM SR 826



SR 826 8-LANE SECTION NEAR BIRD ROAD



SR 826 8-LANE SECTION WITH AUXILIARY LANE NEAR CORAL WAY



EAST-WEST EXPRESSWAY TRANSITION SECTION FROM 6 to 8 LANES NEAR SR 826/SR 836 INTERCHANGE



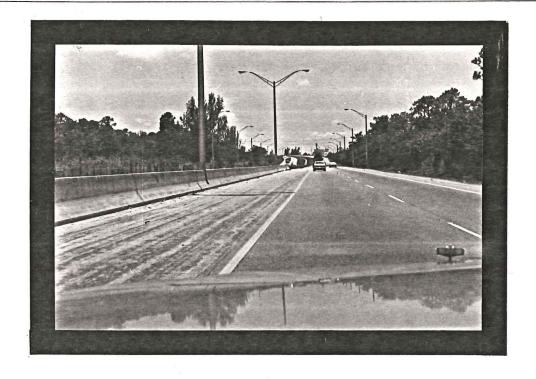
WIDE WB TO SB RAMP CONNECTOR IN SR 836/SR 826 INTERCHANGE



EAST-WEST EXPRESSWAY 6-LANE SECTION NEAR AIRPORT



SR 836 EAST-WEST EXPRESSWAY SHOWING NARROW SHOULDERS



SR 874 SHOWING 4-LANE SECTION MEDIAN TRANSITION



SR 836 SHOWING NARROW INSIDE SHOULDER



OPERATIONAL CONDITIONS

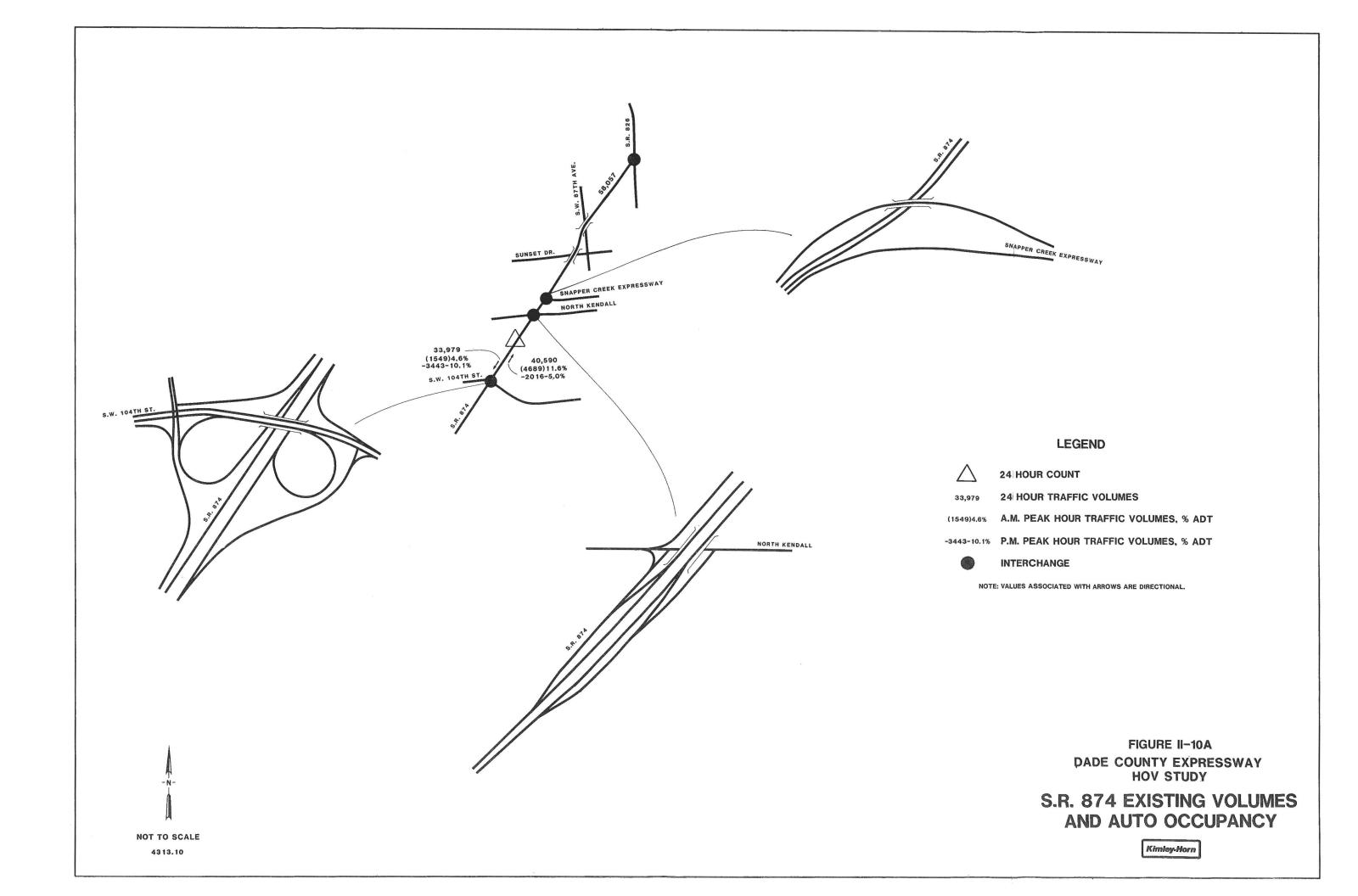
To determine current operational conditions along the study corridor, several studies were undertaken by Kimley-Horn and Associates, Inc. Specifically, these studies include: speed and delay runs along the corridor for both the A.M. and P.M. peak periods, 24-hour traffic volume counts at selected locations along the corridor, peak period turning movement counts at selected corridor intersections, a review of the entire corridor recorded on video tape during both A.M. and P.M. peak hours, collection of auto occupancy counts at selected locations, collection of existing historical volume counts along the corridor, and collection of observations of corridor operating conditions by Kimley-Horn personnel.

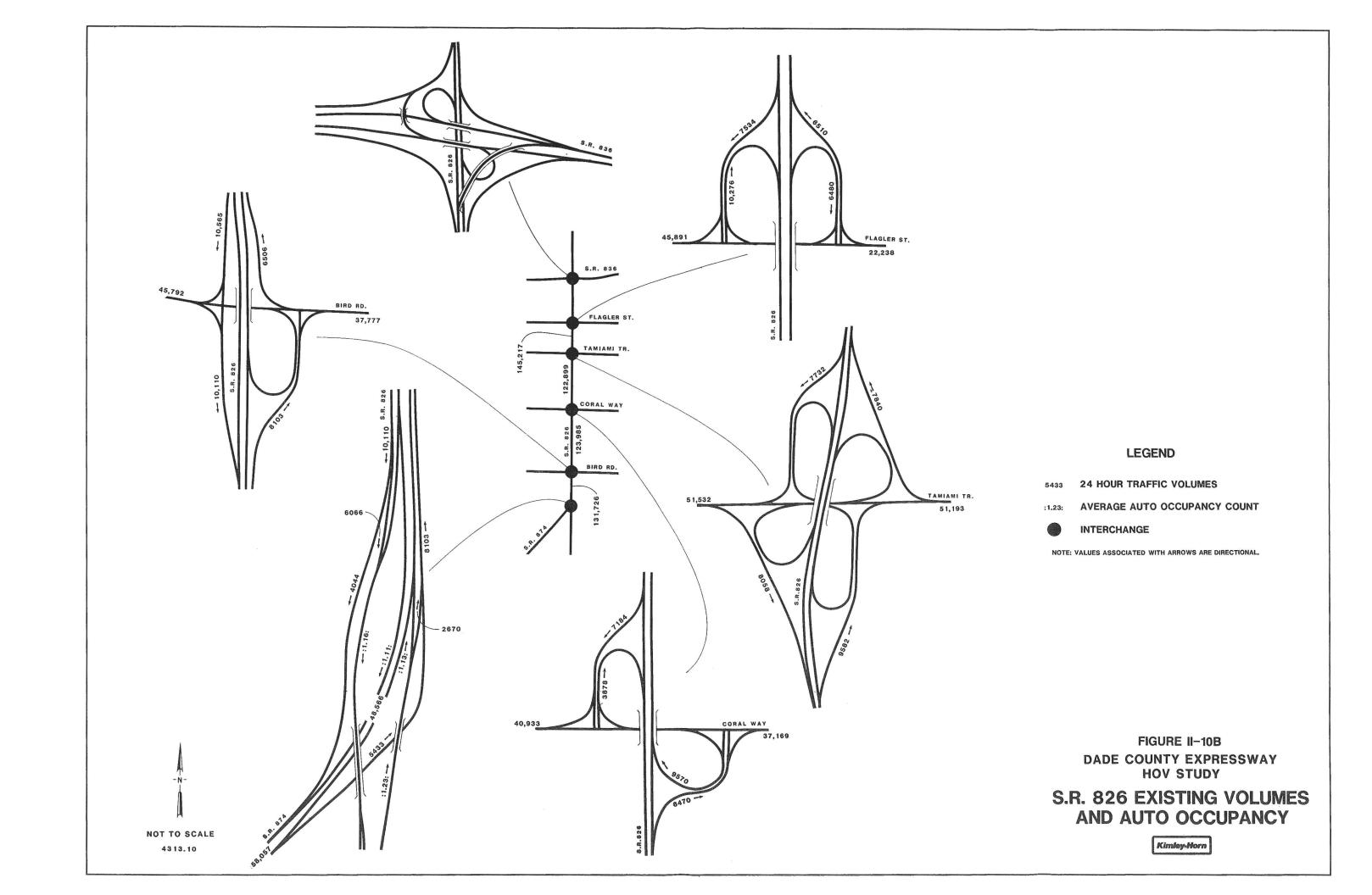
24-Hour Traffic Volume Counts

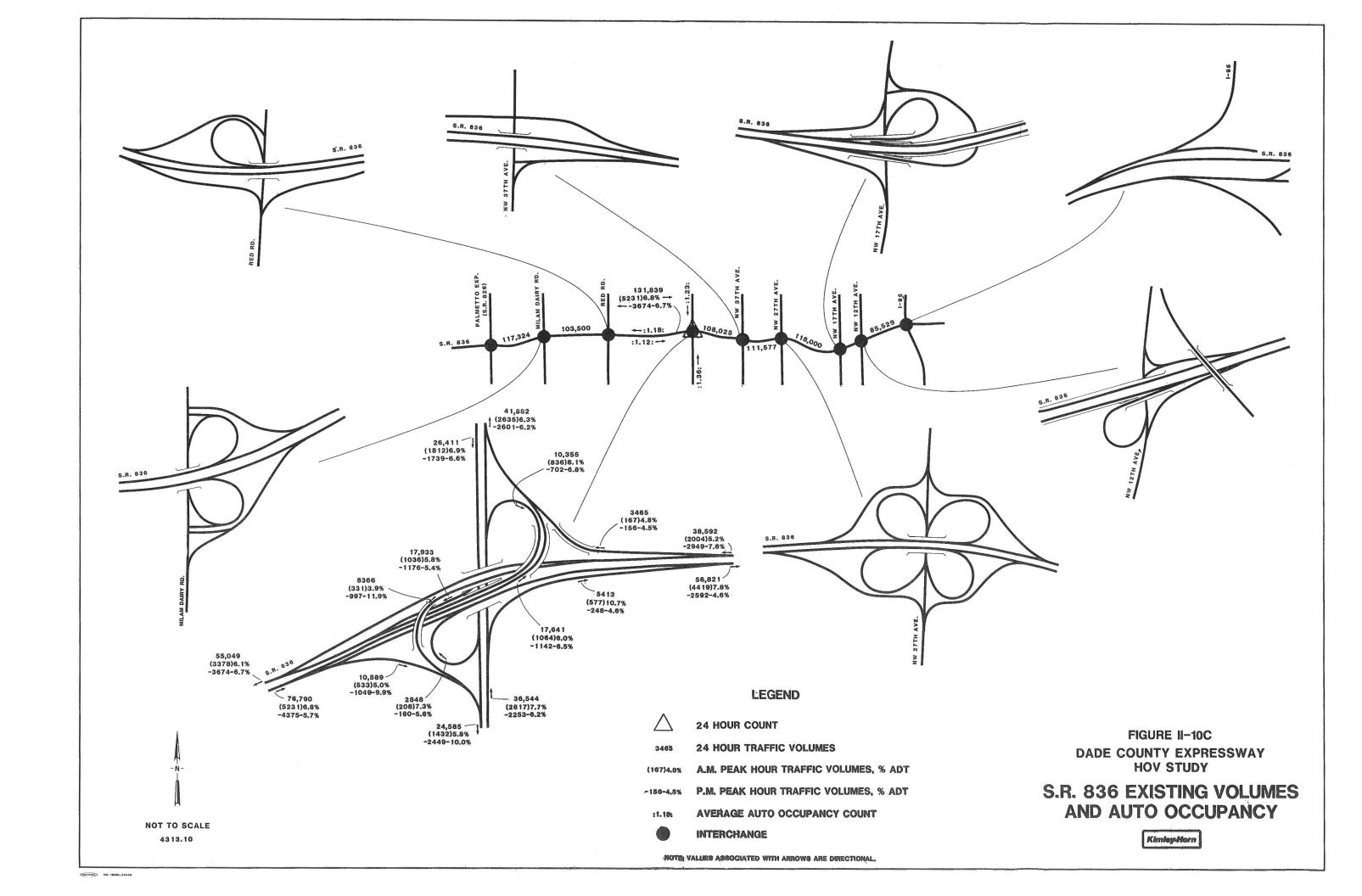
On Thursday, May 23, 1985, 24-hour directional machine traffic counts were made at three locations:

- Le Jeune Road and State Road 836
- o State Road 836 between Le Jeune Road and Red Road
- State Road 874 south of Kendall Drive

Historical average annual daily traffic (AADT) for the corridor varies by section ranging from a low of 58,057 to a high of 145,217 vehicles per day. A summary of both collected and historical AADT's is shown in Figures II-10A, II-10B and II-10C. Historically, directional splits along the corridor are nominally 50 percent - 50 percent; thus a 50 percent - 50 percent split was used for volume/capacity ratio calculation. From counts taken by Kimley-Horn, peak hour percentages were found to be 6 to 7 percent for State Road 836 and 10 to 12 percent for State Road 874. Count locations are identified and summarized in Figures II-10A, II-10B and II-10C. A tabulation of count results is given in Appendix A.







Peak Period Turning Movement Counts

On May 21, 1985, peak period turning movement counts were made at the following major intersections in the corridor:

- o SW 10th Street and SW 107th Avenue
- o Tamiami Trail and SW 87th Avenue
- o I-395 westbound on-ramp and NE 1st Avenue
- o I-395 eastbound off-ramp and NE 2nd Avenue

These count locations are identified on Figures II-10A, 10B and 10C. The summaries of peak hour turning movements for each of the aforementioned intersections is exhibited in Appendix B. The summaries contain the volumes for each movement as well as peak period analysis.

Critical Movement Analyses

Critical movement analyses (CMA) were performed, and all CMA's are contained in Appendix C. An example analysis is shown on Figure II-11.

A critical movement analysis was done for all intersections. The intersections were operating at Level of Service "D" or "E", with one exception. The Palmetto-Flagler west leg was operating at Level of Service "B".

Intersection saturation ranged from 65 percent to 153 percent. The saturation percentage represents the ratio of volume to capacity. The capacity values show the number of vehicles the intersection was designed to handle at an acceptable level of service. At the intersection on the west leg of the Palmetto and Bird Road, the saturation percentage is 153 percent. The design capacity used is 1,650 vehicles per hour. Since the critical sum reaches 2,526 vehicles per hour, the operating conditions are inferior to the level of service for which the intersection was designed and results in Level of Service "E".

CRITICAL MOVEMENT ANALYSIS

REPORT PALMETTO-FLAGLER WEST LEG

LEVEL OF SERVICE B SATURATION 65% CRITICAL N/S VOL 320 CRITICAL E/W VOL 748 CRITICAL SUM 1068

LANE	NORTH MOV W	BOUND		LANE SOUTHE MOV W:		'R'Y		BOUND JIDTH		JESTB 10V W	
1 2 3 4 5	3	* * * * * * * * * * * * * * * * * * *			12.0		T	12.0 12.0 12.0			12.0 12.0 12.0
	NORTH	BOUND		TRAFFI	COUND	IES	EASTI	BOUND	h	JESTB	OUND
LEFT THRU RIGHT		0			257 0 0			212 766 0)	20 809 0
NORTHBOU SOUTHBOU EASTBOU WESTBOU	ND ND	TRUCKS	(%) 5 5 5 5	LCII	CAL BUSE	(\$ (\$ 0 0 0 0	‡/HR)	PE	AK HOL 1 .76 .82 .87	R FA	CTOR
PHASING PEDESTRI CYCLE LE LEFTS/CY	NGTH	E/W IVITY	:2. HE	EAVIEST EAVIEST D SECON	0 -	ROTE	ECTED	OS/HR)			

CRITICAL LANE VOLUMES BY MOVEMENT

THRU -RIGHT	Ō	(**)	514	512
LEFT	O	320	234	O
		LEFT TURN CHE	CK	
	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
INPUT VOLUME	O	257	212	20
ADJUSTED VOL	О	320	236	0
CAPACITY	320	0		234
MOVEMENT	OK	N/A	N/A	OK

NORTHBOUND SOUTHBOUND EASTBOUND

WESTBOUND



Corridor Speed and Delay Studies

On April 24, 1985, A.M. and P.M. peak speed and delay runs were performed for the corridor. The "floating car" technique was utilized. The distance, time, delay, number of stops, average speed, and running speed for each checkpoint along the corridor are shown in Figures II-12A and II-12B. A "key" for Figures II-12A and II-12B is shown in Figure II-12C. Results are also shown in Figures II-13A and II 13B.

For the A.M. peak, total travel time through the corridor was 23.6 minutes, giving an average speed of 43.4 miles per hour. Four stops, with a total of 24.0 seconds of delay, were made by the study vehicle. It should be noted that one stop and two seconds of delay occurred at the toll booth on State Road 836.

The level of service along the corridor ranged from "B" to "F". Serious flow breakdown occurred on two segments, both around the State Road 836/State Road 826 interchange. The segments are those from Flagler Street to the State Road 836/State Road 826 interchange, and from the State Road 836/State Road 826 interchange to Milam Dairy Road.

Average speed for the segments was 16.0 MPH and 15.8 MPH respectively. The level of service for both segments is "F".

Total travel time for the P.M. corridor run was 28.3 minutes, with an average speed of 35.9 MPH. A total of seven stops resulting in 54 seconds of delay were made by the study vehicle. The level of service provided by the corridor ranged from "B" to "F"; however, areas of substandard service were much more extensive than those for the A.M. peak.

KIMLEY-HORN AND ASSOCIATES, INC. TRAFFIC SYSTEM PERFORMANCE EVALUATION

PROJECT : HOV STUDY

STATUS : BEFORE RUUTE NO. I-95

DIRECTION : NORTHBOUND

PERIOD LENTH : 1.5

TOTAL RUNS :2

ROUTE NAME : INTERSTATE 95

PERIOD : AM PEAK

TRAFFIC VOLUME : 1000

TOTAL LINKS :17

FROM	TO	DIST	TIME	DELAY	STOPS	SPER	
			the books from body apper a page grain count about to			AVERAGE	RUNNING
Α	B	6327.0	88.0	1.0	.0	48.8	49.4
B	C	7345.0	89.0	.0	. 0	56.1	56.1
C:	D	4098.0	51.0	. 0	" O	54.6	54.6
ĽI.	E	12522.0	153.0	* O	. 0	55.6	55.6
E	F	9405.0	112.0	. 0	. 0	57.1	57.1
F	G	5233.0	65.0	. O	. 0	54.7	54.7
G	H	2834.0	37.0	. 0	. 0	52.1	52.1
1-1	I	2768.0	117.0	21.0	3.0	16.0	19.6
I	ال	3057.0	131.0	* O	. 0	15.8	15.8
ا	K	8279.0	157.0	" ()	. O	35.8	35.8
K	L.	8347.0	111.0	. 0	.0	51.2	51.2
L.	M	2746.0	36.0	" O	. O	51.8	51.8
M	N	5469.0	74.0	. O	. O	50.2	50.2
N	Ü	3819.0	70.0	1.0	1.0	37.0	37.6
O	E	1964.0	37.0	1.0	* O	36.0	37.0
E.	Q	2383.0	34.0	. O	.0	47.6	47.6
Q	F	3731.0	53.0	.0	. O	47.8	47.8
	OTAL	90349.0	1415.0	24.0	4.0	43.4	44.1

ROUTE TRAVEL TIME STD.DEV. WAS O SECONDS AVERAGE FUEL CONSUMPTION WAS .75 GALLONS PER VEHICLE-TRIP FUEL CONSUMPTION RATE WAS 22.81 MPG

ANNUAL OPERATING COST

				\$/UNIT	\$-TOTAL
DELAY:	2500	VEH-HRS	АТ	4	10000
STOPS:	1500000	STOPS	AT	*	21000
FUEL:	281250	GALLONS	AT	1.246	350437
TOTAL:					381437

KIMLEY-HORN AND ASSOCIATES, INC. TRAFFIC SYSTEM PERFORMANCE EVALUATION

PROJECT : HOV STUDY

STATUS : BEFORE

ROUTE NO.I-95 DIRECTION :SOUTHBOUND

PERIOD LENTH :1.5 TRAFFIC VOLUME :1000

TOTAL RUNS :2

TOTAL LINKS :18

ROUTE NAME : 1-95

PERIOD : PM PEAK

FROM	TO	DIST	TIME	DELAY	STOPS	SPEE	Ξ <u>Π</u> ι
						AVERAGE	RUNNING
A	E	2272.0	29.0	, O	. 0	53.2	53,2
B	C	2870.0	37.0	. O	.0	52.7	52.7
C	D	5754.0	138.0	6.0	1.0	28.3	29.6
D	E	5457.0	230.0	4.0	2.0	16.1	16.4
	F	2713.0	124.0	26.0	2.0	14.8	18.8
F	G	8444.0	253.0	18.0	2.0	22.6	24.4
G	Н	8265.0	150.0	" ()	.0	37.4	37.4
H	I	1360.0	18.0	. O	.0	51.3	51.3
I	J.	4943.0	67.0	.0	. 0	50.1	50.1
ال	K	2786.0	36.0	* O	.0	52.6	52.6
K	L_	5190.0	81.0	.0	. 0	43.5	43.5
L	M	5519.0	28.0	.0	, O	38.2	38.2
M	N	1400.0	32.0	. O	.0	33.9	34.0
N	O	2229.0	30.0	* O	.0	50.5	50.5
Ū	F	12599.0	145.0	. O	. O	59.0	59.0
P	Q	4092.0	48.0	.0	.0	57.9	57.9
Q	R	7328.0	89.0	. O	. 0	55.9	
R	S	6307.0	93.0	. O	.0	46.1	46.1
	TOTAL	89728.0	1698.0	54.0	7 O		37.1

ROUTE TRAVEL TIME STD.DEV. WAS O SECONDS AVERAGE FUEL CONSUMPTION WAS .769 GALLONS PER VEHICLE-TRIP FUEL CONSUMPTION RATE WAS 22.09 MPG

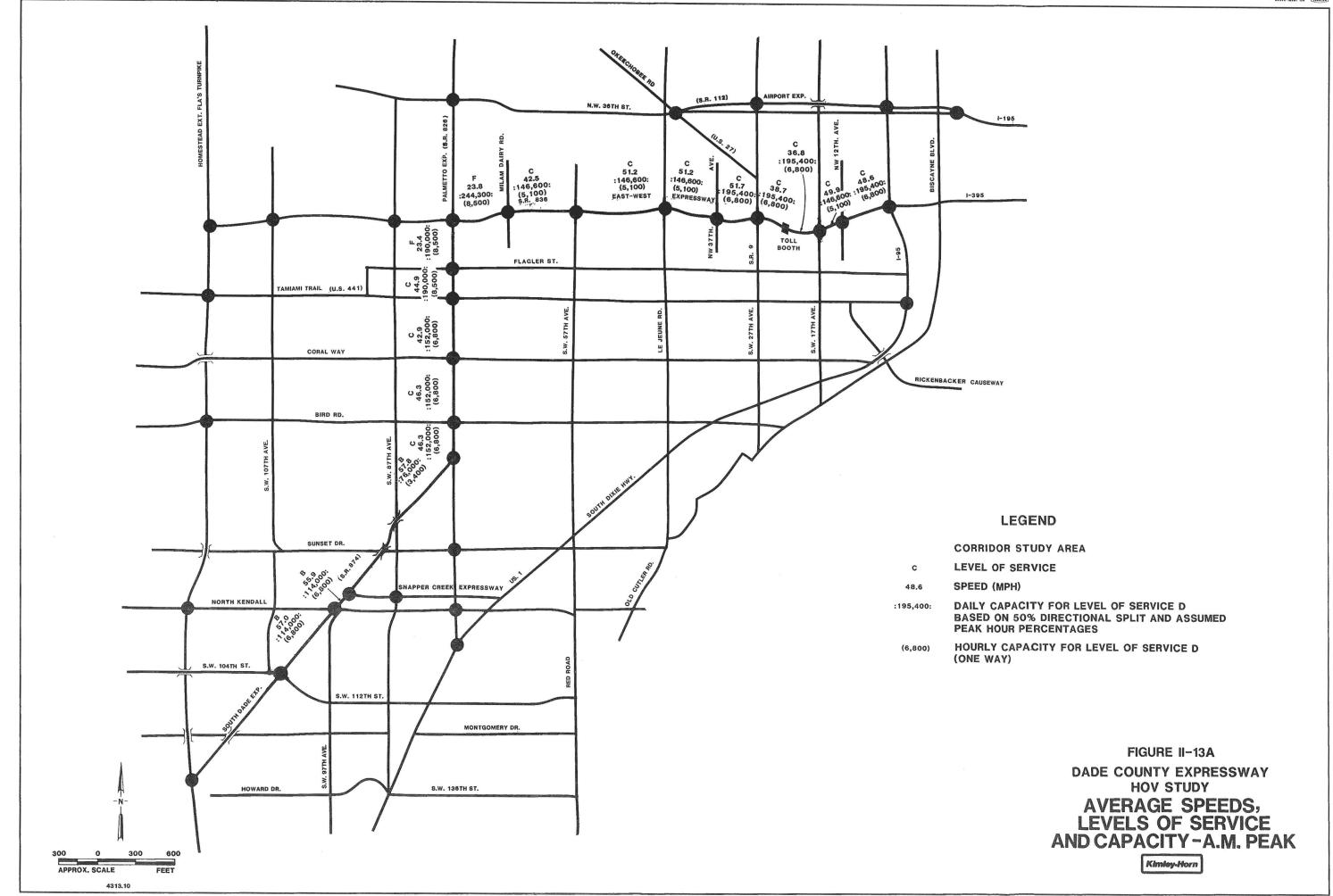
ANNUAL OPERATING COST

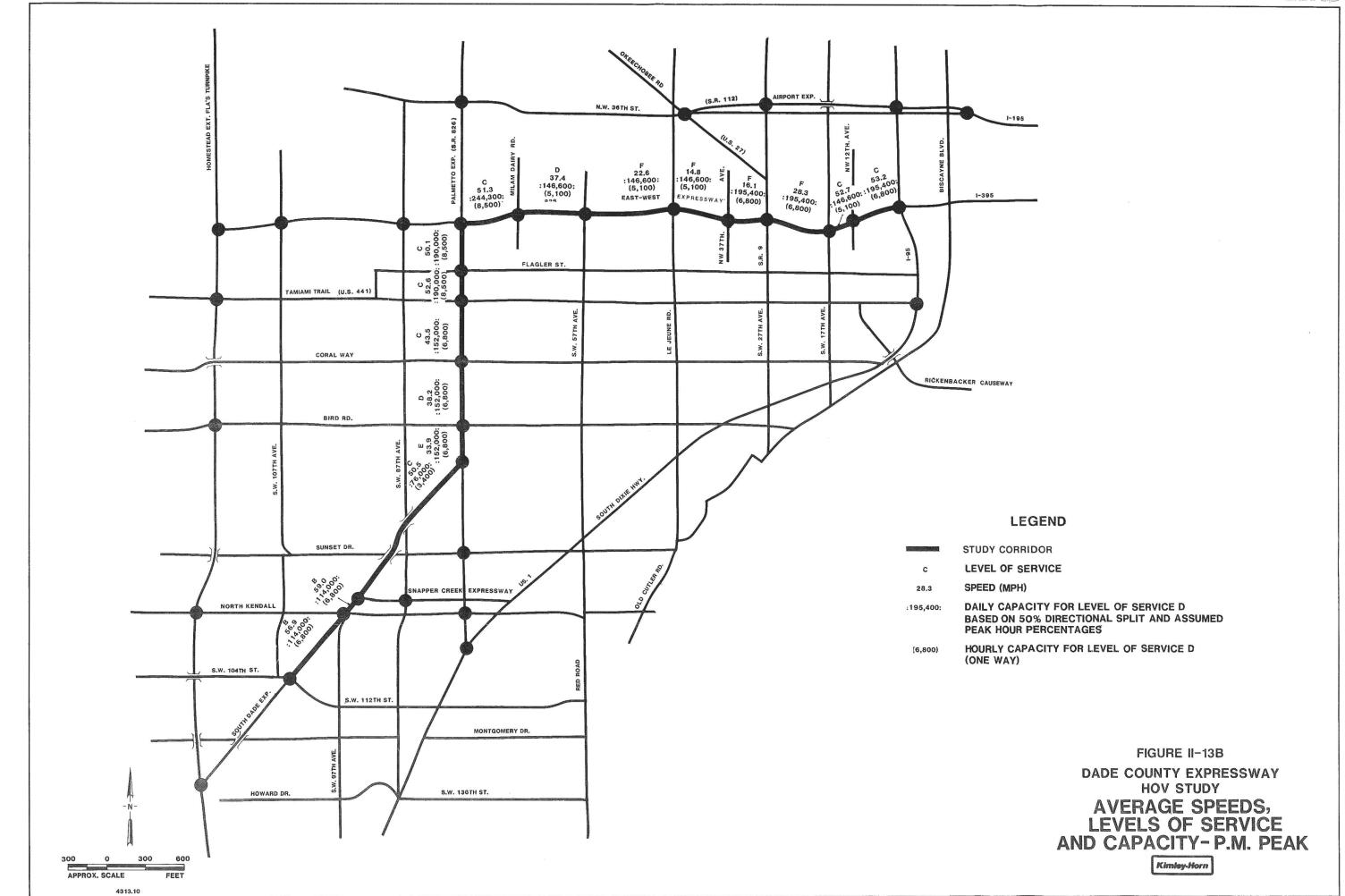
				\$/UNIT	\$-TOTAL
DELAY:	5625	VEH-HRS	ΑТ	4	22500
STOPS:	2425000	STOPS	AT	*	36750
FUEL:	288375	GALLONS	AT	1.246	359315
TOTAL:					418545



FIGURE II-12C KEY TO SPEED & DELAY (For Figures II-12A and II-12B)

A.M.	<u>.</u>	<u>P.M.</u>	
Α.	Toll Plaza on SR 874	Α.	I-95
В.	Killian Parkway - SW 104th	В.	NW 12th Avenue
C.	North Kendall Drive	c.	NW 17th Avenue
D.	Snapper Creek Expressway	D.	NW 27th Avenue
E.	Palmetto Expressway/SR 826	E.	NW 37th Avenue
F.	Coral Way	F.	Le Jeune Road
G.	Tamiami Trail	G.	Red Road
Н.	Flagler Street	Н.	Milam Dairy Road
I.	Interchange SR 836	I.	SR 826/836
J.	Milam Dairy Road	J.	Flagler Street
Κ.	Red Road	Κ.	Tamiami Trail
L.	Le Jeune Road	L.	Coral Way
Μ.	NW 37th Avenue	M.	Bird Road
N.	NW 27th Avenue	N.	SR 874/826
0.	Toll Plaza on SR 826	0.	Snapper Creek Expressway
P.	NW 17th Avenue	P.	Kendall Drive
Q.	NW 12th Avenue	Q.	SW 107th Avenue
R.	I-95	R.	SW 104th Avenue
		S.	Toll Plaza on SR 874





The major problem area was in the vicinity of Le Jeune road. At the time of the study, the queue in the area of Le Jeune Road extended from east of SW 27th Avenue to just east of 57th Avenue.

A minor problem area was also noted at the State Road 826/State Road 874 interchange, due to friction with traffic continuing on State Road 826. The situation was aggravated by a car stalled on State Road 826 at the time the study was made. Figure II-14 shows the county-wide congestion pattern, which was taken from the Metro-Dade Transportation Plan.

Auto-Occupancy Studies

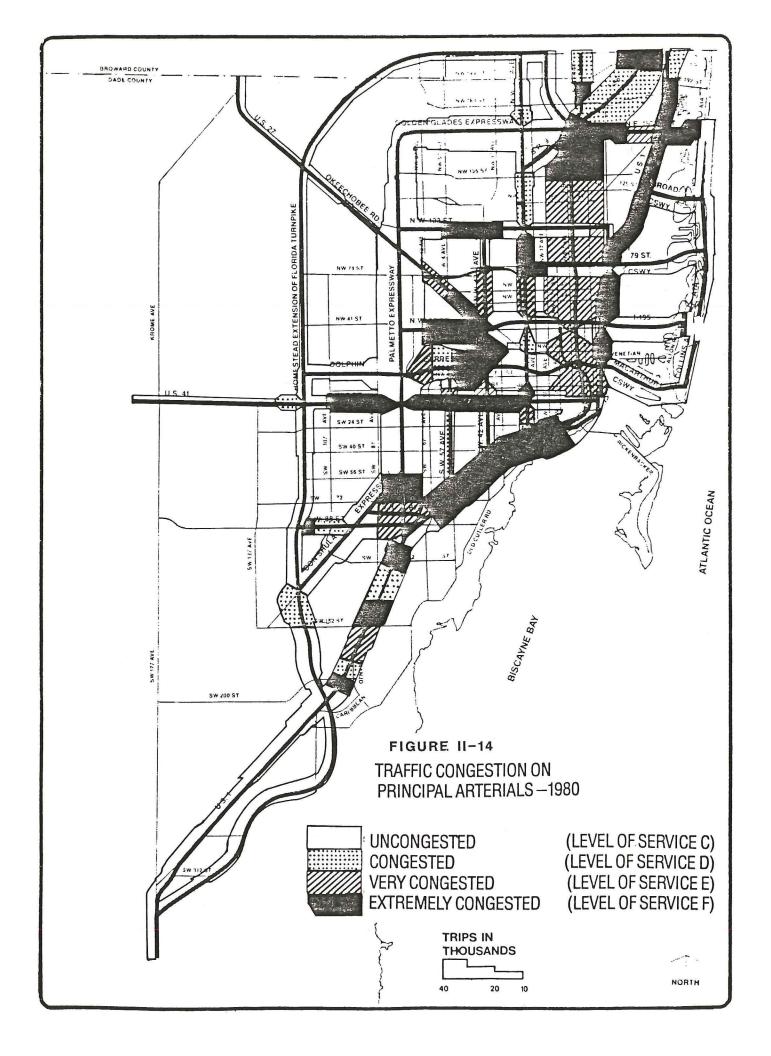
Auto-occupancy surveys were conducted on May 22, 1985, to identify the extent of HOV automobile travel. Each survey includes two samples of corridor and cross-street components.

The surveys were conducted on the inbound lanes during the morning peak 7 - 9 A.M. For the evening peak, 4 - 6 P.M., the surveys were conducted on the outbound lanes.

The study area consisted of the following locations:

- o State Road 826 south of Bird Road
- o State Road 874 south of Bird Road
- Bird Road at 826
- State Road 836 between Le Jeune Road and Red Road
- Le Jeune Road at State Road 836

These locations are identified on Figures II-10A, II-10B and II-10C, along with the corresponding average auto-occupancy. Actual data collected appears in Appendix D.



On Wednesday, May 29, 1985, the study corridor was driven by Kimley-Horn personnel during the A.M. peak to gather information on corridor operation. A summary of those observations follows:

Traffic on State Road 874, the South Dade Expressway, was very light. There was approximately a 60/40 split estimated for traffic on the South Dade/Snapper Creek Expressways with the major portion of the traffic continuing northeast on State Road 874. Traffic continued to be light along this route until it approached the State Road 826 off-ramp. At this point traffic exiting to Bird Road was queued all the way back to the State Road 874 expressway along with the traffic trying to enter Bird Road exiting from Palmetto Expressway. Traffic northbound on the Palmetto Expressway was practically at a standstill and continued in a stop-and-go mode up to the East/West Expressway (State Road 836). There was a decidedly heavier traffic volume northbound than southbound so that during the A.M. peak condition, the directional distribution is heavily in favor of northbound traffic. Traffic southbound for the offramp at Bird Road was queuing back into the expressway creating a hazardous condition for southbound through traffic on the Palmetto Expressway. Traffic congestion in the interchange of State Road 836 and 826 was very heavy during the A.M. peak as the traffic eastbound on the East/West Expressway and traffic moving from north to east tried to merge into the eastbound lanes of State Road 836. This traffic continued heavy for approximately one mile east of the interchange and then thinned out considerably as traffic flows began to reach equilibrium.

Traffic continued flowing at a reasonable rate, estimated at Level of Service "D", on the East/West Expressway until the approach to the toll booths east of 17th Avenue. At this point traffic was substantially queued and it took several minutes to get through the toll booth. After this point, traffic flowed smoothly as it opened up going into the downtown area, toward Miami Beach, and north on I-95.



There were some traffic queues for the two off-ramps from I-395 leading into NE 2nd Avenue and Biscayne Boulevard area. However, these were short and delays were relatively minor. A return trip and second view of the corridor indicated that traffic flows were decreasing substantially after 8:30 and that flows on the South Dade Expressway were up to Level of Service "B/C". However, traffic exiting from the Palmetto Expressway southbound at Bird Road continued to queue into the expressway in the left lane of the dual off-ramp. This creates a hazardous condition and continued throughout the morning peak period of 2 to 2½ hours.

In summary, the problem areas in the morning appear to be the interchange of State Road 874 and State Road 826, the Bird Road interchange at the Palmetto (both the northbound and southbound ramps were queued into the expressway), the East/West Expressway and Palmetto Expressway interchange, and the problems experienced at the toll booths.

TRANSIT SERVICES

Transit On - Off Counts

Passenger on-off activity was surveyed on the six express routes located along or near the study area. The routes were 13, 41, 45, 46, 47 and 48. The counts were performed on a typical day (Tuesday, Wednesday, or Thursday). After discussions with the Metro-Dade Transportation Administration and the FDOT, and after viewing historical data, it was found that the ridership would be reversed in the afternoon outbound runs from the morning inbound runs. For that reason, only the morning inbound runs were surveyed except for the two routes on State Road 836 (Routes 46 and 48). The on-off counts by route are located in Appendix E. A summary of the counts by route, including the percentage of seats filled, is found in Table II-13.

The express routes run "closed door" on the expressways (State Roads 826, 836 and 874), but do stop along arterial streets. The following is a description of the transit counts:

Route 13 has two runs in the morning, starting at 5:57 A.M. and 7:02 A.M., at the South Dade Government Center in southwest Dade County. The route proceeds north to U.S. 1 and the Palmetto Expressway (State 826). From State Road 826, the route turns east on NW 36th Street. The 5:57 A.M. run ends at the Eastern Airline Office at 6:45 A.M. The 7:02 A.M. run ends at the Miami International Airport at 8:00 A.M. The maximum number of passengers observed during the morning run was 33 (Table II-5). The afternoon runs, in reverse flow from the morning runs, start at 3:40 P.M. and 5:05 P.M., and respectively end at 4:25 P.M. and 6:20 P.M.



Route 41 has a single morning run starting at 5:30 A.M. at the South Dade Government Center. The route proceeds north to U.S. 1 and to the Blue-Dash Parking Lot at SW 72nd Avenue and SW 80th Street. From that point, the route heads north on the Palmetto Expressway (State Road 826) and turns east on NW 36th Street. The route ends at the Miami International Airport at 6:23 A.M. The maximum number of passengers observed during the morning run was 24 (Table II-6). The afternoon run, opposite of the morning run, starts at 3:17 P.M. and ends at 4:41 P.M.

Route 45 consists of two runs in the morning, starting at 5:53 A.M. and 6:53 A.M., at SW 132nd Avenue and SW 88th Street (Kendall Drive) in southwest Dade County. The route continues east on Kendall Drive to SW 72nd Avenue. From this point, the route turns north to the Blue-Dash Parking Lot at SW 80th Street. The route proceeds north on the Palmetto Expressway (State Road 826), and then turns east on NW 36th Street. The 5:53 A.M. run ends at NW 36th Street and Leed Street at 6:37 A.M., while the 6:53 A.M. run ends at the Miami International Airport at 7:50 A.M. The maximum number of passengers observed at one time on the morning run was 15 (Table II-7). The afternoon routes are the reverse of the morning runs and start at 3:40 P.M. and 5:05 P.M., and end respectively at 4:32 P.M. and 6:02 P.M.

Route 46 has a single morning and afternoon run; both runs were observed. The morning run begins at 6:55 A.M. at SW 112th Avenue and SW 40th Street (Bird Road) in southwest Dade County. The route heads east on Bird Road to SW 82nd Avenue; from there it turns north to SW 24th Street (Coral Way). At Coral Way, the route proceeds north on the Palmetto Expressway, and turns east on the East-West Expressway (State Road 836). The route exits to the north at NW 17th Avenue to end at NW 12th Avenue and NW 16th Street at 7:45 A.M. The maximum number of passengers observed at one time on the morning run was 23

(Table II-8). The afternoon route is the reverse of the morning run, starting at 5:15 P.M. and ending at 6:05 P.M. The maximum number of passengers observed at one time on the afternoon run was 11 (Table II-9).

Route 47 has a single morning run starting at 5:28 A.M. at SW 112th Avenue and SW 40th Street (Bird Road) in southwest Dade County. The route proceeds east on Bird Road to SW 87th Avenue; from there it turns north to SW 24th Street (Coral Way). At Coral Way, the route proceeds north on the Palmetto Expressway (State Road 826) and turns east on NW 36th Street. The route ends at Sheridan Street near the Miami International Airport at 6:45 A.M. The maximum number of passengers observed at one time on the morning run was 18 (Table II-10). The afternoon route is the reverse of the morning run, starting at 3:40 P.M. and ending at 4:18 P.M.

Route 48 has four runs in the morning, starting at 6:35 A.M., 7:05 A.M., 7:35 A.M., and 8:05 A.M. at Tropical Park on Bird Road. All of the morning runs were observed. The route proceeds north and east to Red Road. From Red Road, the route heads east on the East-West Expressway (State Road 836) to Downtown Miami. Ending times, respectively, are 7:15 A.M., 7:45 A.M., 8:15 A.M., and 8:45 A.M. The maximum number of passengers observed at one time on the morning runs was 22 (Table II-11). The afternoon runs are reversed, starting at 4:13 P.M., 4:43 P.M., 5:13 P.M., and 5:43 P.M. Respective ending times are 4:50 P.M., 5:20 P.M., 5:50 P.M., and 6:20 P.M. The maximum number of passengers observed at one time on the afternoon runs was 30 (Table II-12).

County-wide Transit Service from $\underline{\text{The Metro Expansion Study}}$ is shown in Appendix F.

TABLE II-5 ROUTE 13 AIRPORT EXPRESS COUNT DATA

Location of Stop*	ON	OFF	% Seats Filled <u>(48)</u>
Coral Way Garage	0	0	0%
-	5	0	10%
South Dade Government Center	4	0	19%
Perrine	15	0	50%
,	3	0	56%
36th Street	9	3	69%
	0	17	33%
Eastern Airlines	0	<u>16</u>	0%
Total	36	36	75%

 $[\]star$ -- Indicates location between points.



TABLE II-6 ROUTE 41 AIRPORT EXPRESS COUNT DATA

Location of Stop	<u>ON</u>	OFF	% Seats Filled (45)
Coral Way Garage	0	0	0%
South Dade Government Center	0	0	0%
Cutler Ridge	2	0	4%
Perrine	5	0	16%
Dadeland South	9	0	36%
Parking Lot	8	0	53%
Eastern Airlines	0	7	38%
Pan American	0	13	9%
Miami International Airport		4	0%
Total	24	24	53%



TABLE II-7 ROUTE 45 AIRPORT EXPRESS COUNT DATA

Location of Stop	<u>on</u>	<u>OFF</u>	% Seats Filled (45)
132nd Avenue at 88th Street	0	0	0%
142nd Street at 72nd Street	2	0	4%
	5	0	16%
Parking Lot	4	0	24%
36th Street at South Drive	4	0	33%
36th Street at Lee Drive	0	7	18%
	4	0	27%
Miami International Airport	0	12	0%
Central Garage	0	0	0%
Total	19	19	42%



TABLE II-8 ROUTE 46 AIRPORT EXPRESS (AM) COUNT DATA

Location of Stop	<u>on</u>	<u>OFF</u>	% Seats Filled (45)
Coral Way Garage	0	0	0%
112th at Bird Road	6	0	13%
	7	0	28%
Tropical	10	0	49%
12th Avenue at 16th Street	0	_23	0%
Total	23	23	49



TABLE II-9
ROUTE 46
AIRPORT EXPRESS (PM) COUNT DATA

Location of Stop	<u>on</u>	OFF	% Seats Filled (45)
NW 16th Street at V.A. Hospital	7	0	15%
	1	0	17%
NW 14th Avenue at 13th Terrace	3	0	23%
NW 17th Avenue at SR 836	0	0	23%
SW 24th Street at 82nd Avenue	0	2	19%
SW 40th Street at 79th Avenue			19%
SW 40th Street at 87th Avenue	0	2	15%
	0	2	11%
SW 40th Street at 97th Avenue	0	0	11%
_	0	1	9%
SW 40th Street at 107th	0	0	9%
SW 40th Street at 112th	0	4	0%
Total	11	11	23



TABLE II-10 ROUTE 47 AIRPORT EXPRESS COUNT DATA

Location of Stop	<u>ON</u>	OFF	% Seats Filled (45)
Central Dispatch	0	0	0%
Bird Road at SW 112th Avenue	8	0	17%
Bird Road at SW 107th Avenue	1	0	19%
Bird Road at SW 102nd Avenue	2	0	23%
Bird Road at SW 92nd Avenue	2	0	28%
Bird Road at SW 87th Place	1	0	30%
87th at 23th Street	4	0	38%
36th Street at East Drive	0	8	21%
36th Street at Lee Drive	0	6	9%
36th Street at Sheridan Drive	0	4	0%
Total	18	28	38%

TABLE II-11 ROUTE 48 EXPRESS (AM) COUNT DATA

Location of Stop	<u>on</u>	OFF	% Seats Filled (47)
SW 40th Street at 79th Avenue	0	0	0%
SW 40th Street at 82nd Avenue	1	0	2%
CVI 02-1 A	2	0	6%
SW 82nd Avenue at 24th Street SW 24th Street at 87th Avenue	1 2	0	9% 13%
3w 24th Street at 87th Avenue	2	0	17%
SW 87th Avenue at 16th Street	1	0	19%
SW 16th Street at 82nd Avenue	Ô	Õ	19%
	ī	O	21%
SW 82nd Avenue at 8th Street	0	0	21%
SW 8th Street at Tamiami	1	0	23%
	1	0	26%
SW 71st at Flagler	1	0	28%
SW Flagler Street at 67th Avenue	1	0	30%
CW/ El . I	1	0	32%
SW Flagler at 62nd Court	1	0	34%
SW Flagler at 57th Avenue	2	0	38% 40%
SW Flagler at 57th Avenue	1	0	43%
NW 57th Avenue at SR 836	1	3	38%
Miami at SE 4th Street	Ô	4	30%
SE 1st Avenue at 1st Street	Ō	8	13%
NE 1st Avenue at 2nd Street	0	6	0%
NE 1st Avenue at 4th Street (MDCC)	0	0	0%
Total	21	21	45%



TABLE II-12 ROUTE 48 EXPRESS (PM) COUNT DATA

Location of Stop	<u>on</u>	OFF	% Seats Filled (49)
North Miami Avenue at NW 5th	5	0	10%
West Flagler at Miami Court	6	0	22%
SW 1st at Miami Avenue	6	0	37%
NW 57th Avenue at 7th Street	0	1	35%
NW 57th Avenue at Flagler	0	2	31%
Flagler at 62nd Avenue	0	1	29%
Flagler at 67th Avenue	0	1	27%
Flagler at 71st Avenue	0	1	24%
Tamiami at SW 8th Street	0	0	24%
SW 8th Street at 82nd Avenue	0	1	22%
SW 82nd Avenue at 16th Street	0	4	14%
SW 16th Street at 87th Avenue	0	1	12%
87th Avenue at 24th Street	0	2	6%
24th Street at 82nd Avenue	0	2	2%
82 Avenue at 40th Street	0	1	0%
Total	17	27	35%



TABLE II-13 SUMMARY OF BUS DATA BY ROUTE

TOTAL SEATS		TOTAL PATRONS			% OCCUPANCY			
Route	<u>AM</u>	PM*	<u>AM</u>	PM*			<u>AM</u>	PM*
13	48		36				75	
41	45		24				53	
45	45		19				42	
46	47	47	23	11			49	23
47	47		18				38	
48 (4)	185	196	66	69			36	35

^{*}PM runs assumed to show characteristics similar to AM runs unless otherwise noted.



Present Corridor Transit Services

The HOV corridor boundaries consist of NW 36th Street and Okeechobee Road on the north, U.S. 1 on the south, the Dade County line on the west, and the Miami central business district on the east. The transit service needs vary for particular areas within the corridor.

The area bounded by SR 836, the Palmetto Expressway, Coral Way, and downtown Miami generates numerous short internal trips. The majority of these trips are work trips. Currently, this area seems to be adequately served by local buses. The major transit trip generators in this corridor are the Miami International Airport and the central business district area of downtown Miami.

The trips from the southwest, Kendall, and West Bird Road areas are primarily destined for the airport or the downtown area. The express runs tend to adequately serve the needs of riders in this area, specifically those employees enroute to jobs at the airport. The area north of Bird Road to SR 836 and west of SR 826 is not as well served by Express Transit Service. The northwest area of the county is not served by express bus service to destinations in the HOV corridor.

Capital Equipment Availability

Dade County makes maximum use of the buses currently available; there is an insufficient number of buses during the peak hour. The equipment is now getting old and has very high mileage. The County has had to eliminate a substantial number of buses from service over the recent months. Any new express service would require additional new buses to provide that service.



Capital and Operating Costs

The County has no recent or up-to-date data on bus costs as no new buses have been purchased by the MDTA since 1980. Typically, a \$1.25 per mile plus \$20.82 per hour overall operating cost is used for estimating operating costs. This would be an overall system-wide average for the whole day. It was determined that peak hour service, including the express runs, has substantial "dead-heading" mileage and operates at slightly higher hourly costs. The average number of passengers per total mile operating, including revenue and "dead-head" mileage, is 2.6 passengers per mile. The express bus service is probably slightly less in terms of the number of passengers per total mile operated.

Funding

Funding for the existing system comes from several sources. The farebox revenue provides about 40 percent of the operating costs for the bus system in Dade County. In the future, no federal operating assistance and no operating funds from the State of Florida are anticipated. The FDOT provides no operating support, but in the past typically provided 10 percent of the capital costs, or in some cases one half of the local share, which could be 12.5%, when UMTA provided only 75%. The remaining operating costs are currently paid from the general fund. For the future, Dade County is looking for a dedicated source of funding for operating expenses; most likely coming from a one percent sales tax for transit.



Current Marketing Activities

There is no current marketing program that specifically addresses express bus service and park-and-ride lots. Marketing is done on the basis of an overall transit marketing plus specific marketing for Metrorail.

Downtown Transit Service

Downtown service is provided by two shuttle routes, the first from the downtown to the Brickell area to the south, and the second from the CBD area up to the Omni on Biscayne Boulevard. The shuttle route providing service from the government center to the Omni through the CBD serves a substantial number of riders. However, ridership is low on the other shuttle routes. Construction and development continues for the Metromover in the downtown area, with plans continuing for an extension north to the Omni and south to the Brickell area.

Fare Structures

The initial cost to ride the bus is \$.75. The cost on rail is \$1.00. Train to bus transfers are 25 cents. All shuttle transfers from the downtown area are 10 cents. Bus to bus transfers are 25 cents, except in the CBD area, where bus to bus transfers are 10 cents.

Park-and-ride Facilities

A need may develop for a park-and-ride transit terminal and transfer facilities in the downtown area, preferably to the north, perhaps in the area northeast of the Kimley-Horn

Overtown Metrorail Station near the proposed Park West development. Ramps from State Road 836 and I-95 southbound are to be constructed at NW 8th Street as per the 1984 Transportation Improvement Program provide more direct access into the north CBD area and to the Port of Miami. These could be useful in providing a terminus for HOV, buses, and general traffic into this area. The Miami Parking Authority will be contacted concerning the available parking lots in this area or potential locations for the parking terminal transfer facility in the Park West area.

RIDESHARING PROGRAMS

Efforts to promote ridesharing in Dade County began in 1979 through the combined work of a local commercial television station, the Dade County Transportation Administration, and the Chamber of Commerce. The "Commuter Club" was formed as a public service effort of the television station at a time when gasoline was in relatively short supply. Contacts with major employers and telephone inquiries resulted in the establishment of a data bank of carpool-related data for potential carpool users.

The initial government grant that was received to promote Dade County ridesharing activities came from the State of Florida Governor's Energy Office in 1979. The Share-A-Ride project continued the activities of the earlier program under the new program name. The number of data bank entries increased through continued major employer contacts and through voluntary participation in the program.

Federal Highway Administration (FHWA) grants were received for ridesharing activities in the County from 1981 until 1984 in the form of demonstration grants. Three of the four FHWA grants received were used to continue the Share-A-Ride and major employer contact programs. An estimated 65 percent of those entered in the data bank from November, 1979 to April, 1981, received a match list for other potential carpoolers who lived and worked in the same general area.



An innovative program, based at the condominium level rather than at the destination was established by the fourth FHWA grant. Participants were to leave pertinent information (name, address, phone number, work location and work hours) in a display posted in a visible, common use area of the condominium complex. Although this program was supported by the condominium associations, it was not successful for two reasons: first, even when the display was located in a secured area, residents were hesitant to leave the required information in a public place; second, condominium residents found that they received commuter match lists from the telephone line more quickly than from the display board.

The current grant program, funded by state and local sources, provides a transportation assessment for interested employers. The assessment provides an estimate of the funds used to provide free or subsidized parking and an indication of the benefits that would result from using some of those funds to subsidize a carpool/vanpool program.

Ridesharing Usage

A summary of the estimated number of match lists generated by the various ridesharing programs is included in Table II-14. Share-a-ride records indicate that the percentage of those carpooling who received a match list had declined from 40% in 1981 to 25% in 1984. However, a 1982-83 survey of share-a-ride participants indicated that, of those surveyed, 38% carpooled to work after receiving a match list compared to 23% carpooling prior to receiving a match list. This information indicates that, despite the decline, share-a-ride programs continue to have some positive effect on increasing carpooling. Two obstacles to increasing interest in carpooling have been identified.

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- (1) The data base established for the Share-A-Ride program has not been maintained and, therefore, is presently not a useful mechanism to continue to match theoretically compatible carpool users. The County Ridesharing Coordinator is currently seeking funding to purge the data base of outdated information in order to re-establish a useful carpool matching data file.
- (2) Carpooling is an attractive alternative to private vehicle transportation if gasoline prices are high and parking supply is limited. However, the average price of gasoline has not increased at the same rate as in the late 1970's. In addition, the supply of public parking has increased.

TABLE II-14 DADE COUNTY RIDESHARING PARTICIPANTS

Time Period	Match Lists Generated			
November 1979 - January 1982	13,317			
January 1982 - July 1983*	2,430			
March 1983 - October 1984*	747			

^{*}Dates overlap due to timing of ridesharing grant programs.

Source: Ridesharing Status Report (November 1, 1979-April 30, 1981) to Governor's Energy Office and various Share-a-Ride progress reports to the Florida Department of Transportation.



Ridesharing Incentives

Physical carpool incentives, such as the HOV lane on I-95 from Golden Glades north, have not served as major incentives to carpooling due to the lack of enforcement of the two-passengers-per-vehicle minimum; virtually any vehicle can use the lane, regardless of the posted minimum number of passengers per vehicle.

In addition, travel times need to be significantly lower for the HOV lanes than for the non-HOV lanes in order to attract users. In general, this time differential is a critical inducement for travelers to use ridesharing programs and to use the physical incentive.

Summary

Efforts to promote ridesharing have been on-going since 1979, when the privately-sponsored Commuter Club was formed.

The estimated number of persons involved in ridesharing has increased slightly. The number of carpools is relatively small, due to the relatively stable price of gasoline and the increased supply of parking.

PARK-AND-RIDE FACILITIES

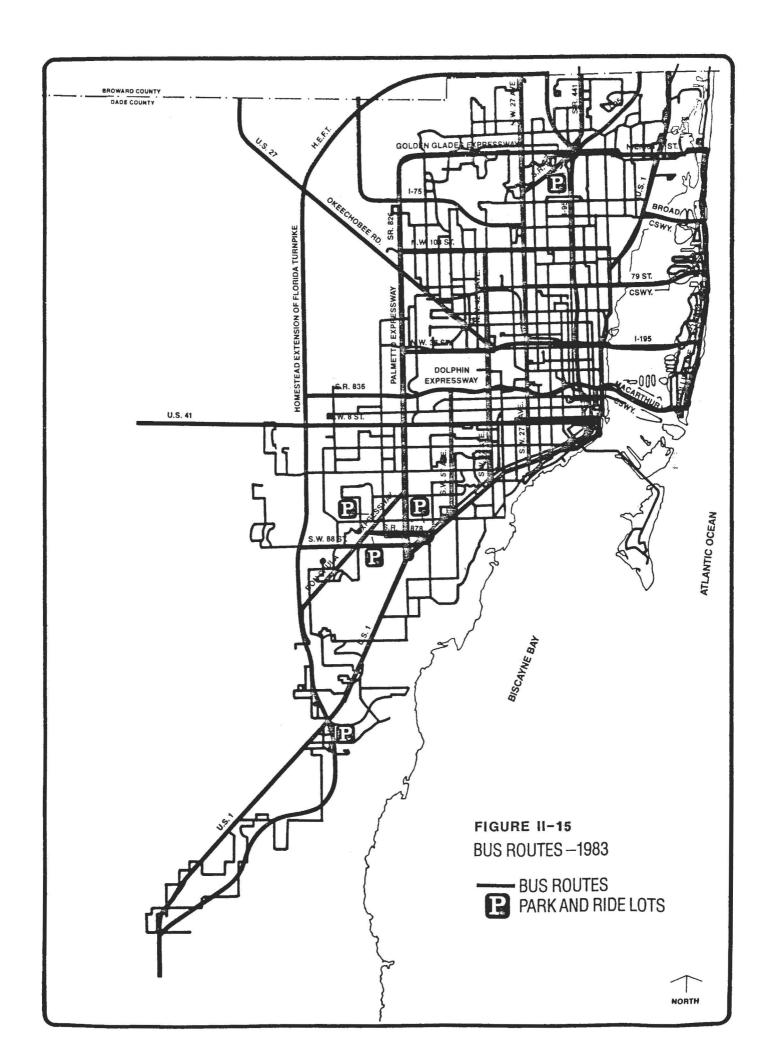
Only three park-and-ride facilities were identified in or near the study corridor. Of those three lots, only one lot was in use. Table II-15 is a table, by parking lot, of marked spaces versus number of parked cars.



TABLE II-15 CORRIDOR PARK-AND-RIDE LOTS

	Marked Spaces	No. of Vehicles
LOT #1 (SW 88th Street and SW 97th Street)	24	0
LOT #2 (SW 72nd Avenue and SW 80th Street) *	270	285
LOT #3 (SW 72nd Avenue and SW 88th Street)	77	2

^{*} The lot at SW 72nd Avenue and SW 80th Street is a "blue-dash" lot which also serves as a satellite parking lot for Dadeland North Metrorail Station. This lot is being used to maximum capacity. Express Routes 41 and 45 stop at the "blue-dash" lot on their way to the airport. The remaining two lots are not being used. Park-and-ride lot locations taken from Metro Transit Expansion Study are shown on Figure II-15.





CHAPTER III - CRITIQUE OF EXISTING SYSTEMS

SYSTEM DEFICIENCIES AND CONSTRAINTS

Traffic and Highway

As discussed in the operations section, during the A.M. peak, serious congestion occurs on two segments of the corridor, both around the State Road 836/826 interchange. The segments are those from the State Road 836/826 interchange to Flagler Street and from the State Road 836/826 interchange to Milam Dairy Road.

Several factors contribute to this congested area; the main congestion stems from the reduction from five eastbound lanes to three eastbound lanes in the immediate vicinity of Milam Dairy Road. As flow again reaches an acceptable level of service, fairly rapidly after the final lane drop, the problem is due more to driver merging to accommodate the lane drops, than to a capacity problem on the three-lane segment. Other factors involved in the congestion are the turbulence normally generated by the convergence of two large flows such as exists at the State Road 826/836 interchange, and the turbulence created in this area by drivers attempting to exit onto Milam Dairy Road from State Road 836.

During the P.M. peak rush, the major problem area is in the vicinity of Le Jeune Road. At the time of the study, the queue in the area of Le Jeune Road extended from east of SW 27th Avenue to just east of 57th Avenue. The problem is generated by high entering volumes at Le Jeune Road and convergence of three westbound lanes into two lanes just west of Le Jeune Road. Entry from both the left and right of the traffic flow greatly increases turbulence in the interchange. Compounding the problem is a right-hand lane drop, forcing all drivers entering the interchange in the right lane to make a lane change to pass through the interchange. Even though

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this area is one of the busiest within the corridor, a Level of Service "C" could be maintained were it not for the congestion in the Le Jeune interchange. However, due to the turbulence created at this interchange, a satisfactory level of service is not re-established until the roadway widens to five lanes in each direction at Milam Dairy Road.

Transit

Transit service provided in the HOV study corridor was reviewed in the areas of ridership, on-off data, operations, headways, level of service, coverage, and directness of service. Local routes were reviewed informally, while the express routes review included data collection efforts and an evaluation of transit operations information contained in Dade County's files. Reviews of the files concerning routes indicate an orientation to the Coral Gables terminal for many of the local routes in the west central portion of the corridor, whereas local routes along the section between Coral Way and State Road 836 mostly orient to the downtown area traversing through the Little Havana section of SW 8th Street, Flagler Street, and Tamiami Trail. These latter local routes provide a substantial volume of service and carry a number of patrons who make relatively short trips within the local area.

The express routes primarily serve the southwest area from Bird Road south and west along State Road 874 including runs into Perrine and Homestead. There are two primary destinations of these express runs: the airport area and downtown Miami area. It would appear from the on-off counts and the patronage data that some of the express routes are currently operating with relatively low load factors and transit patronage.



Ridesharing and Park-Ride

Ridesharing activities in Dade County have been hampered by several factors.

The computer data base that was established in the early 1980's has not been kept current. Initial entries have been found to contain inaccurate information such as incorrect addresses, telephone numbers and work places.

Enforcement of the two-passenger-per-vehicle minimum on the I-95 HOV lane has not been consistent. As a result, there is the perception that there is no difference in travel times between using the HOV and non-HOV facilities.

The supply of parking in downtown Miami has continued to increase due to the efforts of the City of Miami Department of Off-street Parking in response to the continuing increase in demand. There are no monetary incentives provided to carpools, such as reduced rates for those who carpool on a regular basis.

There does not appear to be a perception of any tangible benefits, either in a substantial reduction in travel time or in lower direct out-of-pocket expenses for transportation that results from ridesharing. This is due, in part, to the relative stability of the price of gasoline, as well as to employer-subsidized parking.



SYSTEM OPPORTUNITIES

Traffic and Highway

Various opportunities exist for improvements to highway operation within the corridor. As described in previous sections, the study corridor is experiencing breakdowns in traffic flow on certain segments. Opportunities exist for increasing levels of service on these segments through lane additions, redesign of merging areas, and extension of lanes prior to their being dropped, thus providing drivers with additional time to complete merges. Additionally, traffic with the worst P.M. congestion in the corridor, the interchange with Le Jeune Road, could be improved by making minor modifications to the Red Road interchange, enabling it to handle eastbound arrivals to Miami International Airport and westbound departures from the Airport via Perimeter Road. However, these potential modifications would require coordination with Dade County Aviation Department staff so that airport operations would not be hindered. Modifications to the Milam Dairy Road interchange for the same purpose could also be considered. Planned capacity improvements from the Metro Dade Transportation Plan are shown in Figure III-1.

High Occupancy Vehicles

Various types of opportunities for HOV systems are shown in Table III-1. As shown, all alternatives for HOV operation were retained with few exceptions. Toll bypass is valid only for areas with toll booths (State Road 836 east of Le Jeune Road). Concurrent flow take-a-lane was discarded for any segment where congestion already exists. In concurrent take-a-lane operation, one lane, in the direction of normal traffic flow, is designated by signage and lane markings, for exclusive use of high occupancy vehicles. Either an inside or an outside lane may be used. In areas with existing congestion, the reduction in capacity for non-HOV vehicles has in the past led to violations of the lane by non-HOV traffic to an unenforceable extent.

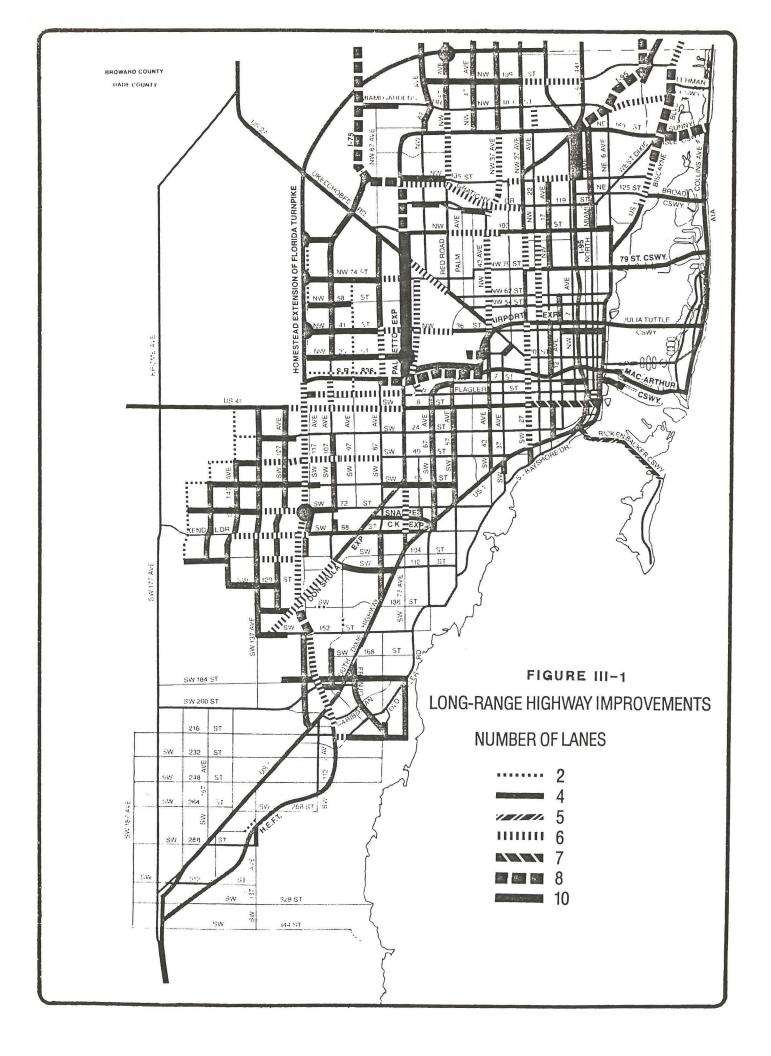




TABLE III-1
HOV OPPORTUNITIES

SR 836								
	East of	West of		SR				
HOV Strategies	Le Jeune Rd	Le Jeune Rd	SR 826	4-Lane	8-Lane			
Concurrent Flow								
Take-a-lane (Inside or outside)	NO	NO	NO	NO	YES			
Add-a-lane (inside or outside)	YES	YES	YES	YES	YES			
Contra-Flow								
Take-a-lane	YES	YES	NO	NO	YES			
Add-a-lane	YES	YES	YES	YES	YES			
Queue Jump								
Ramp-metering Bypass	YES	YES	YES	YES	YES			
Exclusive Ramp Reversible Lane Exit Expressway Add lane	YES YES YES YES	YES YES YES YES	YES YES YES YES	YES YES YES YES	YES YES YES YES			
Toll Bypass	YES	NO	NO	NO	NO			
Exclusive HOV Way								
1-lane reversible 2-lane reversible (or 2-way)	YES YES	YES YES	YES YES	YES YES	YES YES			

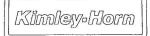
Kimley-Horm

Contra-flow take-a-lane involves moving HOV traffic across the median barrier, through median cuts, and onto the lane which is normally the inside lane for traffic moving in the opposite direction. The contra-flow traffic is normally separated from opposing traffic by some type of moveable barrier, such as plastic pylons set into a base or socket in the pavement. Placing the contra-flow lane into operation, or taking the lane out of operation requires the placing/removal of these pylons by a road crew. For safety reasons, contra-flow lanes should only be used by buses operated by professional drivers. Contra-flow take-a-lane strategies were eliminated as alternatives in areas where flow in the peak direction was not at least two-thirds of total peak period flow. Take-a-lane, either concurrent flow or contra-flow, was eliminated on any segment where only one lane would remain for non-HOV traffic. The above conclusions were reached based upon research by the Federal Highway Administration, particularly, Report No. FHWA-RD-79-15, Enforcement Requirements for High-Occupancy Vehicle Facilities, and Report No. FHWA-RD-79-59, Safety Evaluation of Priority Techniques for High-Occupancy Vehicles.

In particular, the area along the Palmetto Expressway from approximately Bird Road north, and along State Road 836, particularly into Le Jeune Road, seem to have good potential for an HOV lane type of facility to provide express bus service through this corridor. It was further determined that the corridor of State Road 836 to the west, the new International Mall, and the currently rapidly developing area west of the airport and north of State Road 836 could potentially make this an HOV corridor also.

Transit

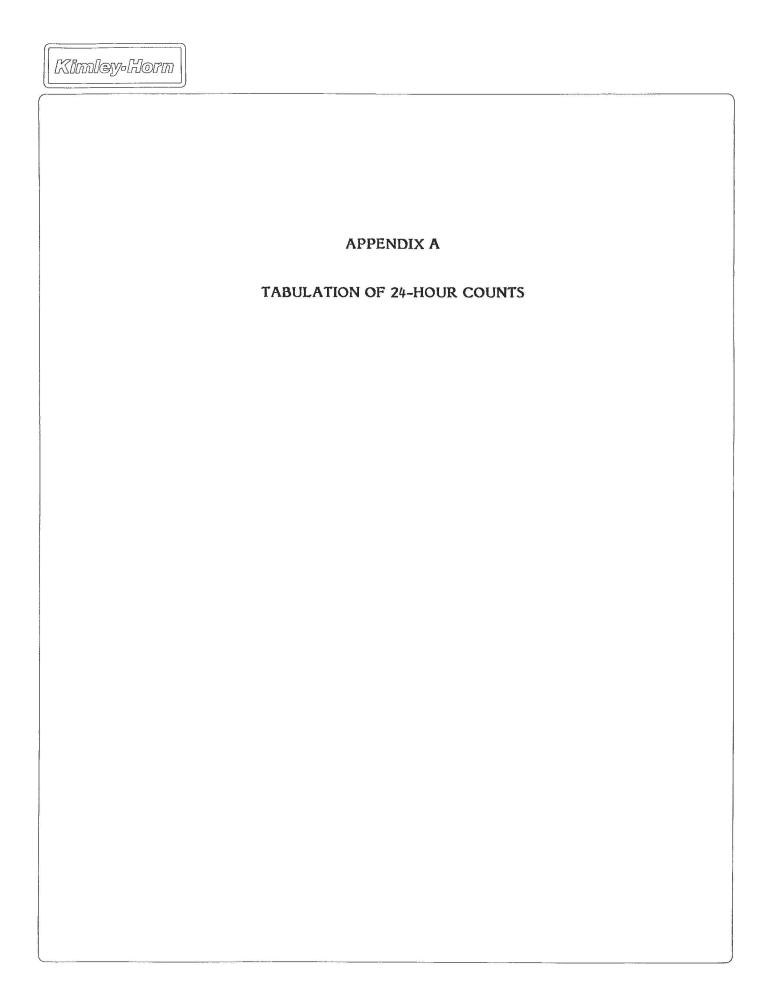
There are potentially some areas that could use additional transit service, and some opportunities for operational improvements. With the thought in mind that major changes are shortly forthcoming in the transit route structure for Dade County, it would still appear appropriate to suggest a review with the possible expiration of certain opportunities.



Additional express transit service in the western corridor, generally between Bird Road and State Road 836 west of the Palmetto Expressway, which includes the Florida International University and Sweetwater areas, may be valuable. To support this service, park-and-ride opportunities should be afforded in the general area of Florida International University or University Lakes areas with express service along Coral Way and/or Tamiami Trail to the Palmetto area and continuing to the downtown area, with some runs accessing employment centers at the airport and the major industrial development and employment centers just immediately west of the airport. Alternatives in this area will be tested and evaluated.

Another potential improvement that will be evaluated is a review of the bus route operations to determine if the local operations portion of the route should be shortened and the express runs or closed door segment of the route lengthened, thereby giving additional savings in time, and making the routes more attractive for the choice rider. "On-off" counts and patronage data will be reviewed to determine if this is a viable recommendation. In addition, origin-destination data for those traffic zones in the study corridor will be reviewed to determine if additional transit service could potentially provide an alternative means of serving those trips.

Opportunity for additional park-and-ride facilities also exist in the corridor. A park-and-ride facility located west of State Road 826 and south of State Road 836 near Tamiami Trail would serve both the HOV corridor and the western edge of current transit service. A multi-modal terminal facility northeast of the Overtown Metrorail Station, combining rail, bus, metromover, and park-and-ride (HOV) services would promote transit usage into the commercial business district. Ridesharing along the HOV corridor would also be enhanced as a rideshare group could leave a common residential neighborhood and then use the park-and-ride facility to move to various destinations in the commercial business district. A facility such as this might be considered in conjunction with the Park West Development in that area.



STATE ROAD 836 BETWEEN LEJEUNE & RED ROAD EASTBOUND

1-1(JUR		QUARTER	HOU	R	HOUR	EACH * REPRESENTS 192 VEHICLES
OF	DAY	1ST	ZND	3RD	4TH	TOTAL	A DASH MEANS HOUR VOLUME < 96
***************************************),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					THEN THEN SHARE SH
1.2	AM	421	409	394	378	1602	***
1	AM	212	173	188	152	7.25	长长长
2	АM	120	78	92	55	345	**
3	AM	54	64	65	70	253	*
4	AM	63	71	87	116	337	46·1€
=	AM	130	159	281	371	941	长条长长
6	AM	514	803	1213	1255	3785	按张松子长张张爷爷长爷爷爷爷爷爷爷
7	AM	1323	1169	1274	1316	5082	长水长长长长长长长长长水水水水水水水水水水水水水水水
8	AM	1301	1340	1418	1325	5384	经保护技术保护技术系统技术系统技术技术技术技术技术技术技术
9	AM	1291	1238	1298	1234	5061	长长谷长长长长长长长长长长长长长长长长长长长长长长长长
10	AM	1170	1178	1113	1229	4690	长校校长校长校校校校校校校校校校校校校校校校校校校
11	AM	1193	1226	1240	1194	4853	经债款的价格的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的
12	PM	1180	1138	1121	1112	4551	长松松松松松松松松松松林林林林林林林林林林
1	FM	1101	1150	1155	1193	4599	*************************************
2	PM	1117	1163 _	1075	881	4236	张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·
3	Fir	830	949	1170	1085	4034	张张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张
4	FM	1165	1067	<u>1</u> 042	1014	4288	张林·张林·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张
5	PM	1136	1183	1038	989	4346	长柱长松谷长谷谷谷谷谷谷谷谷谷谷谷谷谷谷谷谷谷谷谷
6	PM	909	951	929	844	3633	奎州松林安安安林林林林林林林林林
7	PM	948	932	918	857	3455	我我快乐我会长安林林林林林林林林
8	FM	869	727	754	723	3073	长衣茶长水长衣衣衣衣衣衣衣
9	PM	773	789	701	685	2948	长楼长桥长桥桥桥桥桥桥桥
10	PM	593	615	552	542	2302	安长长长长长长长长长
11	PM	535	570	546	416	2067	长春春长终终春春春春

TOTAL VOLUME IS 76,790 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 5,384 BEGINS AT 8:00 AM (7%) 523/ 6.8 EVENING PEAK HOUR VOLUME OF 4,628 BEGINS AT 1:30 PM (6%) 4375 5.7

STATE ROAD 836 BETWEEN LEJEUNE & RED ROAD WESTBOUND

OF	DUR DAY	 1ST		HOUR 3RD	 4TH	HOUR TOTAL	EACH * REPRESENTS 136 VEHICLES A DASH MEANS HOUR VOLUME < 68
	 AM	250	145	119	172	686	***
1.	AM	156	1.65	1.35	110	546	***
2	ΑМ	119	1.08	84	76	389	长条长
3	AM	80	63	61	46	250	长长
4	AM	58	55	74	62	249	**
=	AM	70	82	139	179	470	长长头
6	AM	263	486	640	600	1989	***
7	AM	627	695	882	854	3058	***
8	AM	828	814	766	715	3123	林爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷
9	AM	656	714	777	673	2820	张校校校校校校校校校校校校校校校校校校校校
1.0	AM	696	740	736	708	2880	****************************
1.1	AM	736	829	823	854	3242	*****
12	PM	914	894	953	845	3606	米米米米米米米米米米米米米米米米米米米米米米米
1	Piy	872	863	948	1032	3715	*************************************
2	PM	926	861	804	646	3239	*************************************
.3	PM.	481	482	780	701	2444	法保持条件条件条件条件条件条件条件
4	PM	834	937	878	940	3589	张春春根张林春春春春春春春春春春春春春春春春春 春
S	Fir	855	1001	930	888	3674	快餐餐餐餐餐餐餐餐餐餐餐餐餐餐餐餐餐餐餐
6	PM	979	940	906	840	3685	春天长春天春天春天春天春天春天春春春春春春春春春春春
7	FM	831	794	723	712	3060	长春天长谷长长长长长长长长长长长长长长长长
8	PM	663	598	559	560	2380	****
9	PM	634	526	5.25	535	2220	*****
10	F'M	535	440	446	480	1901	****
11	PM	460	488	461	405	1814	****

TOTAL VOLUME IS 55,049 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 3,378 BEGINS AT 7:30 AM (6%) 3375 6./% EVENING PEAK HOUR VOLUME OF 3,798 BEGINS AT 5:15 PM (6%) 3674 6.7%

LEJEUNE ROAD STATE ROAD 836 NORTHBOUND

	DUR DAY		QUARTER 2ND	HOUR 3RD	— — 4ТН	HOUR TOTAL	EACH * REPRESENTS 105 VEHICLES A DASH MEANS HOUR VOLUME < 53
	· AM	199	160	179	123	661	****
1.	AM	98	71	56	32	257	**
2	ΑМ	45	47		35	173	美 養
3	AM	37	41	42	32	152	*
.4.	AM	35	51	30	65	181	***
S	AM	53	90	95	132	370	· · · · · · · · · · · · · · · · · · ·
6	AM	175	245	401	581	1402	***
7	AM	452	547	585	723	2307	****
á	AM	771	738	700	685	2894	***
9	AM	561	489	439	486	1975	*****
10	AM	474	435	478	485	1872	***
11	ΑM	539	530	565	554	2188	****
	PM	614	517	563	51.6	2210	
1.3	PM	537	513			2189	****
	FM		37300 00 1007	593	556		
2		527 = 4.4	565	567	554	2213	****
3 4	PM	544	561	550	507	2162	****
4	PM	550	537	556	570	2213	表妆长妆妆妆妆妆妆妆妆妆妆妆妆妆妆妆
5	PM	531	596	560	544	2231	***
5	PM	580	575	484	480	2119	****
7		437	462	390	397	1686	** ** * * * * * * * * * * * * * * * *
8	PM	395	354	346	329	1424	****
9	PM	355	411	364	286	1416	****
10	PM	319	382	314	274	1289	安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安安
11	FM	259	275	1.96	230	960	*****

TOTAL VOLUME IS 36,544 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 2,932 BEGINS AT 7:45 AM (8%) 28/7 1/1 EVENING PEAK HOUR VOLUME OF 2,280 BEGINS AT 5:15 PM (6%) 2253 4.2

LEJEUNE RD & SR 836 SOUTHBOUND ON LEJEUNE RD SOUTHBOUND

OF	DUR DAY	 1ST	QUARTER 2ND	HOUR 3RD	— — 4ТН	HOUR TOTAL	EACH * REPRESENTS 66 VEHICLES A DASH MEANS HOUR VOLUME < 33
	 AM	125	114	104	112	455	***
1	AM	109	98	89	56	352	***
2	AM	33	37	29	-39	138	***
3	AM	55	46	25	50	176	长长.
4	AM	27	49	56	30	162	*·*
5	AM	39	45	53	82	219	***
6	AM	94	149	199	267	709	香茶茶茶茶茶茶茶茶
7	AM	350	319	420	459	1548	***
8	AM	478	455	457	424	1814	***
9	AM	339	346	336	324	1345	***
10	AM	307	321	351	329	1308	****
11	ΑМ	366	365	392	406	1529	****
1.2	PM	420	418	421	425	1684	***
1	FIM	389	388	346	429	1552	***
2	FΜ	422	367	384	380	1553	****
3	FIM	422	429	461	431	1743	****
4	PM	463	408	493	452	1816	****
=	FM	428	366	346	472	1632	***
6	PM	519	372	374	347	1612	*****
7	PM	355	324	324	270	1273	***
8	PM	262	260	278	250	1050	***
9	PM	287	235	283	243	1048	长长林长老林长长长长林林林林林
10	PM	319	248	199	212	978	英格林的长林的长林的长林的长林
11	PM	206	196	168	145	715	***

TOTAL VOLUME IS 26,411 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 1,849 BEGINS AT 7:45 AM (7%)/8/2 6.9 EVENING PEAK HOUR VOLUME OF 1,816 BEGINS AT 4:00 PM (6%)/739 6.6

LEJEUNE RD & SR 836 SBD RIGHT TURN TO SR 836 EAST EASTBOUND

	DAY	 1ST	QUARTER 2ND	HOUR 3RD	 4TH	HOUR TOTAL	EACH * REPRESENTS 7 VEHICLES A DASH MEANS HOUR VOLUME < 5
	 АМ	12			5		* * * *
1	AM	4	ģ	6	4	23	长安长
			1.3.				
2		3	5	2	3	13	₩
3	AM	2	<i>2</i> ‡	5	4	15	松松
4	AM	1	3	5	2	1.1	₩
5	AM	4	0	Ej	7	16	**
6	AM	8	1.4	25	1.1	58	张张张张
7	AM	32	34	41	59	1.66	****
8	MA	58	50	44	4.1	193	***
9	AM	30	38	45	23	136	****
10	AM	35	37	39	44	155	***
11	AM	40	37	51	61	189	***
12	FIN	42	59	60	59	220	*************************************
1	PM	58	52	60	73	243	****
2	PM	53	50	51	51	205	****
3	FM	67	50	55	38	210	传送校长校长长长长长长长长长长长长长长长长长长
4	PM	46	31	51	42	170	****
哥	PM	36	31	29	27	123	特殊按照按按按按按按按
6	PM	48	21	46	36	151	****
7	PM	37	28	38	28	131	****
8	FIM	17	25	24	24	90	传长长长长长长长长
9	FΜ	27	21	31	1.9	98	***
10	FΜ	43	32	25	21	121	长长长长长长长长长长长长长
11	PM	23	26	16	13	78	****

TOTAL VOLUME IS 2,848 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 211 BEGINS AT 7:45 AM (7%) 208 % EVENING PEAK HOUR VOLUME OF 243 BEGINS AT 1:00 PM (8%) /00 5.6

LEJEUNE RD & SR 836 SOUTHBOUND RIGHT TURN TO SR836 WEST WESTBOUND

1-10	JUR		QUARTER	HOUR		HOUR	EACH * REPRESENTS 42 VEHICLES
OF	DAY	197	2ND	3RD	4TH	TOTAL	A DASH MEANS HOUR VOLUME < 21
			-				MANES SAMES SAMES SAMES NAMES COMES SAMES SAMES SAMES AND ADDRESS COMES SAMES
12	AM	1.45	136	129	134	544	****
1	AM	98	78	69	56	301	***
2	AM	46	37	27	24	134	长长长
3	AM	25	20	1.7	37	99	长长
4	AM	29	26	37	32	124	长长长
5	AM	19	44	4.2	74	179	※★**
6	AM	72	129	161	207	569	****
7	AM	230	215	268	272	985	****
8	AM	258	238	221	190	907	依张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·张·
9	AM	191	179	174	141	685	***
10	AM	1.66	176	180	189	711	经按按检查检验检验检验检验检验
1. 1.	AM	172	218	217	277	884	预格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格
12	PΜ	275	314	302	260	1151	长春长春安春长春春春春春春春春春春春春春春春春春春春春
j.	PM	272	238	306	298	1114	张张林林林林林林林林林林林林林林林林林林林林林林林林林
2	FIM	307	248	295	288	1138	*******************************
3	PM	287	286	315	233	1121	张张桥桥桥桥桥桥桥桥桥桥桥桥桥桥桥桥桥桥桥桥桥桥桥
4	FIM	288	267	317	226	1098	格拉拉格拉格拉格拉格拉格拉格拉格拉格拉格格格格格格格格格格格格格格格格格格格格
	PM	192	240	271	271	974	预热检查预热格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格格
6	FM	277	250	289	281	1097	*****************************
7	PM	250	239	255	227	971	经按证券的证券的证券的证券的证券的证券的证券的证券的证券的证券的证券的证券的证券的证
8	PM	215	212	205	185	817	经依据证据证据证据证据证据证据证据证据证据证据证据证据证据证据证据证据证据证据证
9	PM	181	192	199	220	792	长松林长林林林林林林林林林林林林林
10	PM	234	208	169	192	803	依依然依据我在我在我我我就我就我
1.1	PM	201	189	165	180	735	长松林林林林林林林林林林林林林

TOTAL VOLUME IS 17,933 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 1,036 BEGINS AT 7:30 AM (5%) 5.8 EVENING PEAK HOUR VOLUME OF 1,176 BEGINS AT 2:45 PM (6%) 975 5.4

LEJEUNE RD & SR 836 NBD RIGHT TURN TO SR 836 WEST WESTBOUND

OF	DAY	 1ST	QUARTER 2ND	HOUR 3RD	 4TH	HOUR TOTAL	EACH * REPRESENTS 30 VEHICLES A DASH MEANS HOUR VOLUME < 15
	AM	59	46	 39	 31	175	***
	AM	29	21	24	17	91	#-#-#-
2		14	11	12	1.1	48	**
3	AM	11	5	9	7	32	*
4	AM	15	8	12	7	42	÷
5	AM	16	1.8	27	31	94	***
6	AM	51	89	140	107	387	******
7	AM	134	142	196	227	699	***
8	AM	221	192	181	148	742	*****
9	AM	114	122	147	133	516	****
10	AM	130	122	112	159	523	****
1.1	AM	132	170	152	141	595	经长班条件长年长年长年长年年年年年
12	FM	140	155	158	149	602	长爷林长爷长爷爷长爷爷爷爷爷爷爷爷爷爷爷
1.	FM	164	189	187	184	724	****
2	PM	155	185	184	175	699	长老林安长长长长长长长长长长长长长长长长长长
S	PM.	1.98	161	165	139	663	****
4	PM	158	138	205	1.48	649	*********************
5	PM	185	164	131	151	631	****
6	PM	159	140	143	150	592	预格格格格格格格格格格格格格格格格格格格
7	PM	154	139	122	148	563	长长枪头长长长头头长头头头头头
8	PM	106	97	99	98	400	预长餐长货长货
9	PM	111	100	79	85	375	长柱状长柱长柱长柱长柱
10	FM	102	79	67	71	319	长长长长长长长长长长
11	FΜ	67	39	43	45	194	长长长长长

TOTAL VOLUME IS 10,355 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 836 BEGINS AT 7:30 AM (8%) 8./ EVENING PEAK HOUR VOLUME OF 742 BEGINS AT 2:15 PM (7%) 702 68

LEJEUNE RD & SR 836 NBD RIGHT TURN TO SR 836 EAST EASTBOUND

	DUR DAY	 1ST	QUARTER 2ND	HOUR 3RD	 4ТН	HOUR TOTAL	EACH * REPRESENTS 21 VEHICLES A DASH MEANS HOUR VOLUME < 11
					***		Title from mind family (title story hand black from from book title title title bette bette bette title bette bett
12	AM	1.3	8	5	8	34	长长
1.	AM	7	9	4	5	25	K
2	AM	3	10	5	3	21	*
3	AM	3	1.0	5	7	25	*
4	AM	44.	4	9	1.5	2.2	**
5	AM	8	1.2	16	26	62	***
රා	AM	40	37	69	67	213	长长长长长长长长
7	AM	86	107	1.48	143	504	长米米米米米米米米米米米米米米米米米米米米
8	AM	140	126	133	95	494	****
9	AM	98	102	90	77	367	****
10	AM	70	67	83	86	306	****
11	AM	85	95	95	114	389	*************************************
12	FM	96	75	83	113	367	**************
1	PM	109	100	85	77.77	371	****
2	PΜ	88	87	83	67		长长安长长爷爷爷爷爷爷爷爷
3	PM.	101	72	92	85	350	希格格格格格格格格格格格格格格
4	PM	91	71	91	54	307	****
5	PM	44	59	49	58	210	长条水水井木水木木
6	PM	63	67	52	49	234	****
7	PM	60	37	37	33	167	经验检验检验
8	PM	37	41	30	49	157	*****
9	PM	46	43	36	46	171	****
10	PM .	61	29	46	32	168	长春谷长春长长
11	PM	39	24	33	18	114	****

TOTAL VOLUME IS 5,413 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 577 BEGINS AT 7:30 AM (10%) 10.57 EVENING PEAK HOUR VOLUME OF 407 BEGINS AT 12:45 PM (7%) 248 4.6

LEJEUNE RD & SR 836 WESTBOUND OFF RAMP TO GO NORTHBOUND NORTHBOUND

	DUR:		QUARTER	HOUR		HOUR	EACH * REPRESENTS 11 VEHICLES
	DAY	1ST	2ND	3RD	4TH	TOTAL	A DASH MEANS HOUR VOLUME < 6
12	AM	13	1.1	9	8	41	44-16-46-46
	2 (2.2)		4			101 525	
1	AM	6	8	2		19	₩-₩-
2	AM	9	6	O	2	17	长长
3	AM	三	1	2	5	13	*
4	AM	4.	3	4.	4	15	*
5	AM	3	7	10	1.8	38	★★ 株
6	AM	21	.28	30	28	107	****
7	AM	43	30	38	41.	152	****
8	AM	41	47	33	47	168	***
9	AM	34	30	44	41	149	*************************************
1.0	AM	54	43	56	61	214	经按按按按按按按按按按按按按按
11	AM	78	73	86	67	304	经根据证据的证据证据证据证据证据证据证据证据证据证证证证证证证证证证证证证证证证
12	PM	86	75	73	82	316	长度安安的安长的安长的安全的安全的安全的安全的安全的
1	PM	69	52	61	E3 E3	237	****
2	PM	62	56	55	81	254	松松枝花枝枝枝枝枝枝枝枝枝枝枝枝枝枝枝枝枝枝枝
3	PM	59	67	73	95	284	****
4	FM	76	78	46	č.3	263	*****
5	PM	22	25	23	36	109	按张校校校校长长长
6	FM	66	38	51	37	192	长老爷爷爷爷爷爷爷爷爷爷爷爷
7	PM	36	38	46	32	152	计科技技术技术技术技术技术
8	PM	26	26	35	38	125	*************************************
9	PM	29	34	33	22	118	长长舟长舟长长长长
10	FM	37	24	27	22	110	各种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种
11	FM	19	14	16	19	68	长林林林林

TOTAL VOLUME IS 3,465 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 304 BEGINS AT 11:00 AM (B%) /67 4.8 EVENING PEAK HOUR VOLUME OF 316 BEGINS AT 12:00 PM (9%)/55 4.5

LEJEUNE RD & SR 836 WESTBOUND OFF RAMP TO GO SOUTHBOUND SOUTHBOUND

OF	DAY	 1ST	QUARTER 2ND	HOUR 3RD	— — 4ТН	HOUR TOTAL	EACH * REPRESENTS 36 VEHICLES A DASH MEANS HOUR VOLUME < 18
	AM	20	17	1.9	22	78	**
1	AM	14	16	1.1	12	53	*
2	ΑМ	8	6	5	9	28	*
3	AM	5	22	4	Ģ	20	*
4	ΑМ	5	4	5	4.	1.8	₩
E	AM	4.	6	1.0	1.4	34	*
6	AM	24	30		49	138	长冬安长
7	AM	69	52	75	71	267	安安安安安
8	AM	87	98	100	84	369	林老长林林长长长
9	AM	112	79	87	102	380	长年长年长年长年长年
10	AM	105	117	112	114	448	经按按照保存投资保持
11	AM	112	114	113	131	470	*****
1.2	PM	118	135	136	142	531	长张长长长长长长长长长长长长
1.	PM	126	110	138	139	513	格斯特特格特特特特特特特特
2	FIM	116	125	132	114	487	经税条据经帐帐帐帐帐帐帐
.3	PM	140	165	153	171	629	经验证帐户的证明的证明的证明的证明的证明的证明的证明的证明的证明的证明的证明的证明的证明的
4	FM	229	229	235	301	994	**********************************
5	FM	233	228	223	193	877	经长长格特格格格格格格格格格格格格格格格格格格格
6	PM	230	139	126	118	613	*****************
7	PM	113	89	105	88	395	英程长校校长长校校长
8	PM	81	80	91	72	314	科科科科科科科科
9	FM	69	78	81	79	307	林林林林林林林林
10	PM	60	62	61	49	232	张爷爷爷爷
11	FM	55	46	45	25	171	***

TOTAL VOLUME IS 8,366 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 470 BEGINS AT 11:00 AM (5%) 331 3.9 EVENING PEAK HOUR VOLUME OF 998 BEGINS AT 4:15 PM (11%) 99 16 9

LEJEUNE RD & SR 836 EASTBOUND OFF RAMP TO GO NORTHBOUND NORTHBOUND

	DUR DAY	 1ST		HOUR 3RD	 4.TH	HOUR TOTAL	EACH * REPRESENTS 53 VEHICLES A DASH MEANS HOUR VOLUME < 27
		#114 mar 1144 mar 1					state data many made trade come store from the state and trade trade come store that made trade
12	AM	98	91	89	67	345	特殊保持投资
1	AM	56	61	49	43	209	茶茶茶茶
2	AM	33	24	21	14	92	₩.₩
.3	AM	24	1.2	21	1.7	74	*
.4.	AM	15	16	15	35	81	**
5	AM	35	71	103	1.17	326	长长长长长
Ó	AM	182	304	379	391	1256	*****
7	AM	378	325	250	262	1215	*******
8	AM	290	262	241	248	1041	预格查验检验检验检验检验检验检验
9	AM	228	264	207	202	901	****
10	AM	200	216	223	253	892	预餐餐餐餐餐餐餐餐餐餐
11	AM	250	285	253	310	1098	经存在保存帐户条件条件条件条件条件条件
1.2	PM	265	259	226	248	998	*************************************
1	PM	215	232	244	228	919	长长长长长长长长长长长长长长长长
2	PM	222	226	265	269	982	*******************************
3	PM.	283	284	327	298	1192	****
4	PM	318	320	303	292	1233	经技术技术技术技术技术技术技术技术技术技术
S	PM	277	270	195	198	940	****
6	PM	220	187	182	211	800	张铁桥铁桥铁铁铁铁铁铁铁
7	F'M	200	187	191	173	751	****
8	PM	168	168	176	175	687	****
9	PM	188	139	144	157	628	长条头条长条条条条条
10	FM	154	155	132	115	556	************
11	PM	107	112	105	101	425	长松长长长长长

TOTAL VOLUME IS 17,641 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 1,473 BEGINS AT 6:30 AM (8%) EVENING PEAK HOUR VOLUME OF 1,263 BEGINS AT 3:30 PM (7%)

LEJEUNE RD & SR 836 EASTBOUND OFF RAMP TO GO SOUTNBOUND SOUTHBOUND

H(DUR		QUARTER	HOUR		HOUR	EACH * REPRESENTS 38 VEHICLES
OF	DAY	15T	ZND	3RD	4TH	TOTAL	A DASH MEANS HOUR VOLUME < 19
							Mile this this that that that that their high being had had had the cold that the thin the
1.2	AM	24	27	16	13	80	安长
1.	AM	12	9	7		25.25	*
2	AM	5	7	1.0	1.2	34	*
.5	AM	2	5	4	7	18	page .
4.	AM	2	8	4	6	20	*
S	AM	10	1.4	21	18	63	茶茶
6	AM	36	46	56	87	225	安安安安
7	AM	90	111	107	119	427	****
8	AM	134	173	140	136	583	林林林林林林林林林林林林林
9	ΑM	161	180	182	177	700	林林林林林林林林林林林林林林林
10	AM	184	177	158	172	691	林林林林林林林林林林林林林林林
11	AM	153	171	181	194	699	****
12	FIM	194	158	193	187	732	长州外州州州州州州州州州州州州州州州州州州州
1	FM	1.66	162	175	174	677	林松林林春春春春春春春春春春春春春
2	FIM	164	145	178	178	665	极强强强强强强强强强强强强强
3	FM	182	179	203	197	761	*************************************
4	P'M	210	207	224	236	877	*************************
5	PM	305	284	234	151	974	******************
6	PM	160	155	152	130	597	***
7	1544	125	120	107	119	471	格林林林林林林林林林
8	PM	97	110	92	117	416	格拉格林格格格格格格
9	FIM	107	106	77	83	373	长长长长长长长长长
10	PM	76	80	59	73	288	长长长长长长长
11	PM	52	53	47	33	185	长长长长

TOTAL VOLUME IS 10,589 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 723 BEGINS AT 9:15 AM (6%) 133 50 EVENING PEAK HOUR VOLUME OF 1,059 BEGINS AT 4:45 PM (10%) ~ 9

DATA COLLECTION BEGAN AT 12 AM ON THURSDAY, MAY 23, 1985.

STATE ROAD 874 SOUTH OF KENDALL ROAD NORTHBOUND

	DAY	 1.ST	QUARTER 2ND	HOUR 3RD	 4ТН	HOUR TOTAL	EACH * REPRESENTS 173 VEHICLES A DASH MEANS HOUR VOLUME < 87
17	 АМ	104	94	77	66	341	#: #:
1	AM	51	61	47	32	191	₩
		37		24	31		*
2	AM		44			136	
.3	AM	24	27	39	38	128	-}f-
4	AM	41	40	55	66	202	*
	AM	86	151	200	281	700	长米长长
Ć	AM	492	704	885	947	3028	***************
7	AM	1060	1258	1280	1169	4767	经保护检查检查检查检查检验检验检验检验检验检验检验
8	AM	1146	1094	1035	871	41.46	法张校校长张校长张校长校长长长长长长长长长长长
9	AM	713	671	642	593	2619	****
10	AM	569	547	503	514	2133	张老长张长长长长长长
11.	AM	502	517	504	500	2023	长长长长长长长长长长
12	PM	446	474	484	474	1878	****
1	PM	501	482	514	513	2010	按张桥桥桥桥桥桥桥桥
2	FM	537	576	583	510	2206	传承检查长长长长长长长长长
.5	PM.	556	546	555	505	2162	*************************************
4	PM	486	489	509	535	2019	张松长长长长长长长长长
==	FM	475	497	472	461	1905	经长根格特格特格特
6	FM	446	440	456	458	1800	长长长长长长长长长
7	PM	462	451	400	411	1724	****
8	FM	364	340	367	311	1382	****
9	PM	345	309	311	288	1253	於长於 於长於
10	P'M	297	259	275	201	1032	长长长长长
11	FM	236	221	183	165	805	安安安安安

TOTAL VOLUME IS 40,590 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 4,853 BEGINS AT 7:15 AM (12%) EVENING PEAK HOUR VOLUME OF 2,225 BEGINS AT 2:15 PM (5%)

DATA COLLECTION BEGAN AT 12 AM ON THURSDAY, MAY 23, 1985.

STATE ROAD 874 SOUTH OF KENDALL ROAD SOUTHBOUND

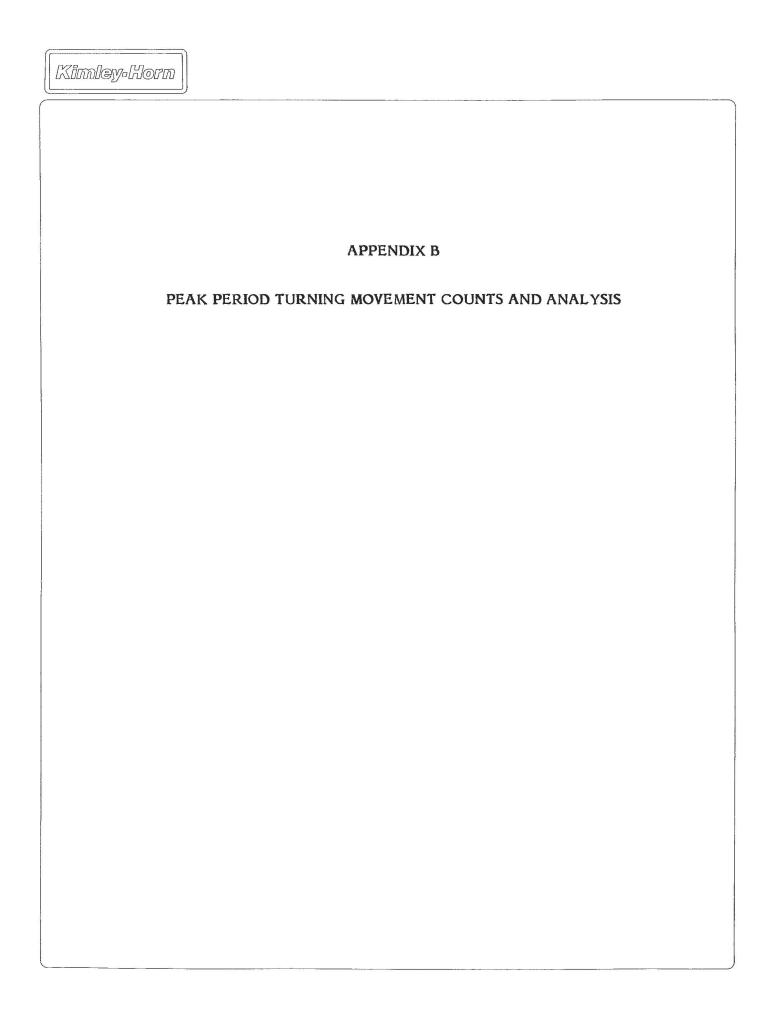
OF	DUR DAY	15T	QUARTER 2ND	HOUR 3RD	4TH	HOUR TOTAL	EACH * REPRESENTS 131 VEHICLES A DASH MEANS HOUR VOLUME < 66
	AM	200	157	102	105	564	***
1.	AM	91	81	73	50	295	张 展
2	AM	65	54	29	41	189	***
3	AM	47	54	49	42	192	-X-
4.	AM	42	22	50	47	161	·)
15	AM	43	41	57	97	238	₩ ₩
6	AM	124	201	242	258	825	安长安长
7	AM	293	349	401	376	1419	****
8	AM	365	407	330	336	1438	****
9	AM	294	285	339	313	1231	长长长长长长长长
10	AM	311	311	330	312	1264	长老老爷爷爷爷爷
1. 1.	AM	338	391	360	404	1493	***
12	PM	408	433	447	406	1694	长老爷爷爷爷爷爷爷爷爷
1	PM	413	376	413	465	1667	依张长长长长长长长长长长
2	PM	470	541	521	479	2011	长长长长长长长长长长长长长
3	PM.	572	599	665	699	2535	*************************************
4.	PM	731	759	806	766	3062	*************************************
	FM	910	961	956	847	3674	*************************************
6	PM	825	705	661	550	2741	长老爷爷爷爷爷爷爷爷爷爷爷爷爷爷爷
7	FM	559	519	476	436	1990	长长长长长长长长长长长长长
8	PM	459	400	375	372	1606	长年长年长年长年长年
9	PM	386	355	329	305	1375	长爷爷爷爷爷爷爷
1.0	PM	340	289	238	270	1137	长爷爷爷爷爷爷爷
1 1	PM	315	309	286	248	1178	****

TOTAL VOLUME IS 33,979 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 1,549 BEGINS AT 7:30 AM (4%) EVENING PEAK HOUR VOLUME OF 3,674 BEGINS AT 5:00 PM (10%)

DATA COLLECTION BEGAN AT 12 AM ON THURSDAY, MAY 23, 1985.



TURNING MOVEMENT COUNT

EW 104 ST & EW 107

COUNTERS NAME: SL COUNT DAY: TUESDAY COUNTER NO. 0 COUNT DATE: 05/21/85

PE. END	NOF LT	RTHBOL 世紀	IND RT	SOU LT	JTHBOU THRU	ND RT	LT	AUOBTE URHT	ID RT	WES LT	STBOUN THRU	D RT	TOTAL	
7:150 7:30 7:30 7:30 7:30 7:30 7:30 7:30 7:3	000000000000000000000000000000000000000	110 136 139 125 144 166 204 141	4 4 6 21 18 19 23 24	88 105 98 94 143 98 131 116	1 2 4 5 4 4 16 9	13942 13942	13 17 28 26 27 58 53	307 310 312 290 282 270 234	8 4 10 14 14 11 25 16	13 15 15 11 11 8 3	58 57 62 80 57 44 46 56	17 22 31 32 47 76 85	632 681 721 720 766 795 933 750	
15:45 16:00 16:15 16:30 16:45 17:00 17:15 17:45 18:00	000000000000000000000000000000000000000	265 291 246 258 298 339 307 313	69 75 108 117 103 102 103 116	84 79 124 141 107 91 104 88	11 14 24 20 21 13 14 5	57 62 81 67 64 69 67	41 45 44 58 40 35 54 32	172 119 126 161 192 164 139 157	17 18 13 7 11 7	3 5 14 9 18 6 12 9	76 76 73 87 108 98 55 90	47 50 44 64 49 47 62 42	842 834 897 989 1013 971 929 924	
TOTAL	0	3482	912	1691	167	741	629	3527	190	160	1125	773	13397	

KIMLEY-HORN AND ASSOCIATES PEAK PERIOD ANALYSIS

SW 104 ST & SW 107

COUNTERS NAME: SL COUNT DAY: TUESDAY COUNTER NO. 0 COUNT DATE: 05/21/85

	NOI LT	RTHBOL THRU	IND RT	SOL LT ——— AM PEA	JTHBOU THRU 	RT	LT	THOUT USHT	AD RT 	HES LT	AUOBTE URHT 	ID RT
VOLS TOTAL	0	655 739	84	488	33 661	140	196	1078 1340	66	33	205 504	266
%TURN PHF	0	. 31	1.1	74	.86	21	15	. 9	5	7	. 89	53
VOLS	0	1202	425	PM PEA	68	45-17 271	: 45 187	65 6	 	45	348	222
TOTAL %TURN PHF	0	1627 .92	26	57	782 .86	35	21	878 . 9	4	7	615 .88	34

		KEY		
ł	LEFT	THRU	RIGHT	1
1	VOLUME	VOLUME	VOLUME	ţ
1		TOTAL		1
1		VOLUME		ţ
ì	%		"/"	1
!	LEFT		RIGHT	i
ļ		F.H.F.		!

SR 874 RIGHT TURN RAMP TO SW 107AVE SW 107 AVE NORTHBOUND

	DAY	 1ST	QUARTER 2NĎ	HOUR 3RD	 4ТН	HOUR TOTAL	EACH * REPRESENTS 23 VEHICLES A DASH MEANS HOUR VOLUME < 12
12	 AM	0	0	 O	0	0	man and and and part land take and take take take take take take take take
1	AM	0	2	5	1	8	**************************************
2	AM	4	5	4	2	15	*
3	AM	2	4	4	6	18	₩
4	AM	3	0	1	3	7	***
5	AM	O	1	6	8	15	*
6	AM	1	9	9	1. 1.	30	*
7	AM	1.9	22	28	40	1.09	****
8	AM	47	44	44	27	162	长老老老长长
9	AM	33	24	36	40	133	长爷爷长爷
1.0	AM	26	35	31	32	124	*************************************
11	AM	33	38	33	41	145	长老爷爷长
1.2	FΜ	61	45	45	52	203	****
1	PM	36	41.	54	51	182	并依依依依依依
2	PM	52	66	52	47	217	****
3	PM	45	72	53	67	237	长爷长爷爷爷爷爷爷
4	FM	87	73	101	88	349	*****
5	PM	112	188	182	152	634	我快餐快餐快餐快餐餐餐餐餐餐餐餐餐餐餐餐餐餐餐
6	PM	120	73	89	66	348	经长条条条条条条条条条条
7	PM	54	48	46	38	188	****
8	PM	33	35	22	34	124	****
9	PM	27	28	21	22	98	张长长
10	PH	28	20	17	28	93	长长长长
11	PM	21	16	24	13	74	***

TOTAL VOLUME IS 3,513 VEHICLES.

PEAK HOURS:

MORNING PEAK HOUR VOLUME OF 175 BEGINS AT 7:45 AM (5%) EVENING PEAK HOUR VOLUME OF 642 BEGINS AT 5:15 PM (18%)

DATA COLLECTION BEGAN AT 12AM ON TUESDAY, MAY 21, 1985.

TURNING MOVEMENT COUNT

Tarisaria TE & SU 97

COUNTERS NAME: SL COUNT DAY: TUESDAY COUNTER NO. 0 COUNT DATE: 05/21/85

PE. END	NOI LT	RTHBOU THRU	RT	LT	THRU	RT	LT	AUOSTE UAHT	RT	LT	AUOBTE URHT	ID RT	TOTAL
7:3405050505050505050505050505050505050505	14 15 18 12 15 10 13 17	192 280 288 306 316 279 292 243	187 338 339 339 43	13012151410612	108 100 119 125 104 117 116 86	21 19 21 25 25 28 21	19 19 18 19 23 15 18	380 372 411 342 345 375	13 11 12 10 13 12 17 14	11 13 15 17 21 25 23	187 242 267 247 245 245 215	23 27 28 22 25 27 23 24	979 1135 1244 1179 1202 1154 1159 1028
16:15 16:30 16:45 17:00 17:15	19 18 20 15 19	148 185 176 141 185	15 17 13 19	21 19 17 19 21	241 245 260 280 239	12 13 15 17	28 27 29 31 33	294 261 340 266 310	14 13 12 13	32 34 31 39 28	445 453 392 445 502	17 16 15 12 10	1284 1301 1320 1297 1394
17:30 17:45 18:00	25 28 29	149 160 119	15 21 23	23 19 21	271 222 248	21 28 18	27 31 29	245 246 205	15 17 14	35 37 29	467 464 451	13 19 17	1306 1292 1203
TOTAL		3459	399	262	2881	337	384	5077		405	5483	315	19499

PEAK PERIOD ANALYSIS

TAMIAMA TR & SW 87

COUNTERS NAME: SL COUNT DAY: TUESDAY COUNTER NO. 0 COUNT DATE: 05/21/85

	NOF	RTHBOU		sou	JTHBOU	ND	EAS	4UOBT8	ID	WES	WESTBOUND			
	L.T	THRU	ŔŦ	LT	THRU	RT	LT	THRU	RT	LT	THRU	RT		
				AM PEA	AK 7:3	0-8:3	O							
VOL.S	55	1189	131	51	465	1.05	78	1464	4.7	68	1024	102		
TOTAL		1375			621			1589			1194			
ZTURN	4.		10	8		17	5		3	6		9		
PHF		.95			.96			. 9			.96			
				PM PE	NM 1A.	30-17	· TO							
11551 55	marry 2 mm		/						graphs (m)	a comprose	a 250 200 2	t		
VOLS	79	651	65	80	1050	72	120	1161	50	133	1806	50		
TOTAL.		795			1202			1331			1989			
%TURN	10		8	7		6	9		4	7		3		
PHF		. 9			.95			.87			.92			

		KEY		
Į	LEFT	THRU	RIGHT	1
!	VOLUME	VOLUME	VOLUME	1
Į.		TOTAL		1
1		VOLUME		!
!	%		7,	!
l	LEFT		RIGHT	1
į.		F.H.F.		1
			·	-

County DAJE

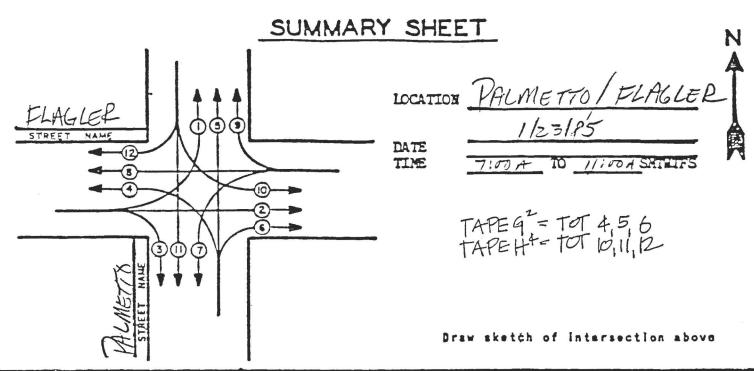
		House and the second				
TUF	RNIFIC	MON	/EME	NT SI	JMMA	RY

LOCATION I 395 Westbound on RAMP + NE 1st AVE.

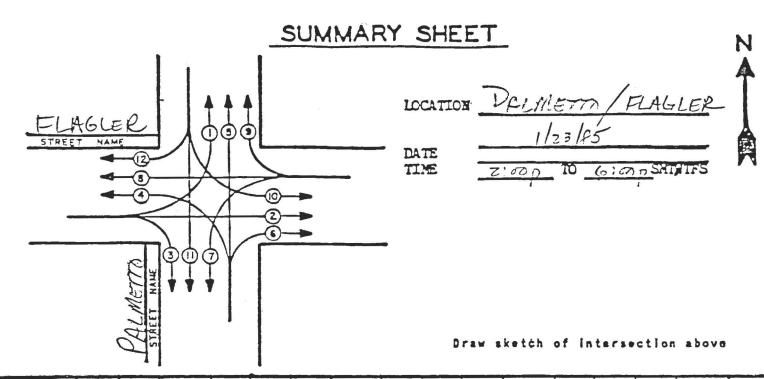
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DAY Thur	N.E.	1 34 F	NE					N-S	Non	eth 1	RAI	np	వ	1tuo	R	Amp	E-W
TIME	Nort	hou	hn					TOTAL	WE	of b	ow n	9	WE	17	own	. 2	TOTAL
INTERVAL	4 4		TOTAL	47	4	F₽	TOTAL		47	<u> </u>	₽	TOTAL	47	4	┌⊅	TOTAL	
7:15 7:30 7:45 8:00	4:	5								89		,	34	61			
7:30	3	o								96			42	47			
7:45	5	4								134			36	65			
8:00	6.	7								154			51	85			
IUIAL		6								473			163	258			ā.
8:15	60)					!!			133			67	102			
8:30	-53	5								102			72	४०			
8:15 8:30 8:45 9:00	8.									110			82	୫୫			
9:00	95	5					<u>li</u>			113			91	95			
TOTAL	79	7					il			458			312	365	_		
TOTAL																	
4:15	155						j			26			256	188			
4:15	14-								l	33			235				
4:45	191									135		11		235			
5:00	156	,							1	18			444	215			
TOTAL	640						il		4	512		11	389				
5:15	197									50		11	476				
5:30	161									32		- 11	366				
5:45	151									09		- 11	354				
6:00	130	9								87			339				
TOTAL	641)							(178		-	535				
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TOTAL				\dashv		====					7	$= \parallel$	=	-			
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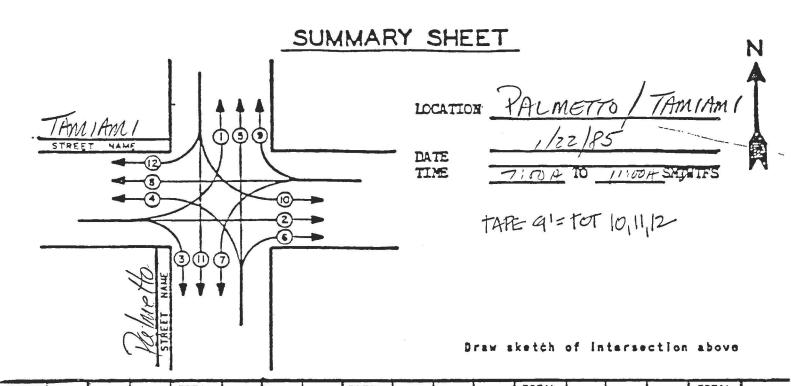
															,				
						TUR	NING	MOV	VEMENT	SUMM	IARY	7	_						
LOCATION	I3	95	EA	stb	bunz	80 1	3-6	2Am	10 A	N 2	mg (-	- 10E.	-						
DAY THUR	SAA	<u> </u>	ATF	5.	23-	85	w	FATHI	FR C	EAR	,		-						
TIME	- 32.1.	-	// I =		N.	E 2	nd f	106		No	neth	RAN	np_	వం	uth	RA	ND	E-1	w
TIME	:	:	· · · · · · · · · · · · · · · · · · ·	źi	Lou	the	jou	nd	TOTAL	En:	1+ba	und		EA	3+6	DUN	12	TOT	
INTERVAL	47	4		TOTAL	₫ ¬	4	₽	TOTAL		47	4		TOTAL	47	4	L₽	TOTAL		
7:15						200					43	83			1000	130			
7:30						249					36	100			120	198			
7:30						311					44	120			158	274			
8:00 TOTAL 8:15 8:30 8:45						334					47	122			169	321			
TOTAL						1094					170	425			549	923			
8:15						319					40	139			171	152			
8:30						329					27	149			193	261			
8:45						270					39	152			180	193			
9:00						286					45	163	1		182	175			
TOTAL						1204					151	603			726	850			
																	1		
TOTAL													l						
4:15						35					26	84			101	31			
4:30						98					13	75				114			\neg
4:45						69					13	73			07				
5:00						53						109			112				\neg
TOTAL 5:15					2	255					62	341			411				ᄏ
5:15						61					18	78			77	69			ᄏ
5.30						55					11	69			104	60			\dashv
5:45					- 1	43					19	68				46			\exists
6:00						42					15	73				47		at a	\exists
TOTAL					2	201					63	288			324				Ħ
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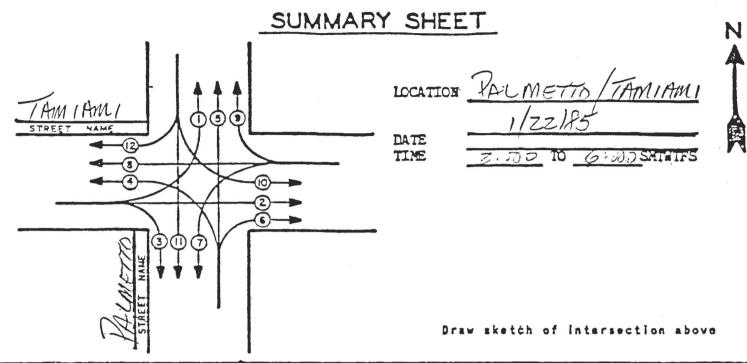
MOR PM	1	2	3	TOTAL 1-2-3	4	5	6	TOTAL 4-5-6	7	8	9	TOTAL 7-8-9	10	11	12	TOTAL	ATOTA
7:15	4+	95	25	164	20	1329	16	1365	20	80	24	124	12	292	12	316	1960
J.	16	145	65	256	43	1293	52	1388	35	90	28	153	55	274	39	368	216:
45	78	120	40	238	83	1303	90	1476	110	145	35	290	63	339	51	453	245
8:00	77	208	60	345	85	1404	1/3	1602	195	120	29	344	35	367	75	527	2818
15	85	228	69	382	52	1218	65	1345	164	175	30	369	68	376	170	614	2710
30	86	210	43	339	70	1296	48	1414	115	195	32	342	41	410	105	556	265
45	66	257	45	398	90	1399	64	1553	120	150	27	297	40	455.	69	.564	2812
9:00	73	167	50	290	30	1270	30	1430	75	155	15	245	35	409	64	508	247:
15	46	153	40	239	50	1407	36	1493	50	165	24	239	40	384	55	479	2450
70	46	135	25	206	62	1096	40	1190	40	125	31	196	27	407	42	476	2076
45	54	110	15	184	50	965	44	1059	40	125	22	187	28	362	43	433	1863
10:50	56	78	14	148	_		-	996	29	165	32	226	28	388	45	461	183
15	65	157	42	264	50	966	40	1056	760	165	30	270	.37	295	32	414	2001
30	50	132	32	.214	34	883	45	962	45	150	25	220	35	343	52	430	1821
45	.55	125	20	200	24	945	40	1009	31	140	20	191	21	370	39	430	1830
11:00	33	117	21	206	40	816	33	889	45	.125	23	193	27	367	48	442	173
		1															
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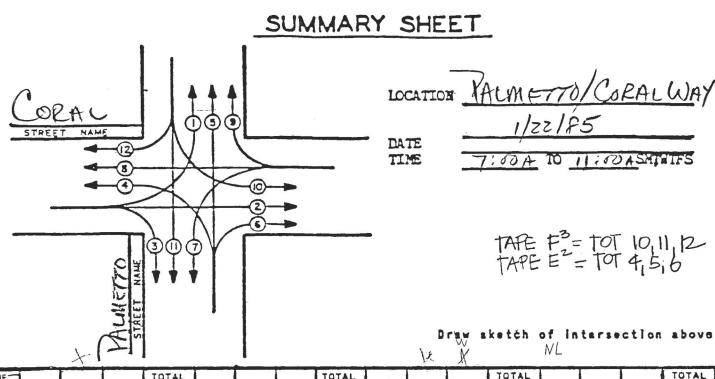
MON PM	1	2	3	TOTAL 1-2-3	4	5	6	TOTAL 4-5-6	7	8	9	TOTAL 7-8-9	10	11	12	TOTAL	ATOT
215	79	145	45	269	54	850	20	924	30	205	32	317	44	394	57	495	2005
,00.	72	153	50	275	60	843	32	935	95	350	37	382	52	3911	75	518	2110
45	77	247	48	372	40	926	50	1016	86	<i>34</i> 0	26	352	45	372	86	503	224
3:00	69	127	40	236	57)	960	30	1040	83	220	20	323	35	381	89	505	2100
15	78	115	36	229	52	989	3.3	974	59.	225	36	320	50	396	75	521	204:
30	72	129	43	244	45	945	40	1030	50	210	39	299	50	4-53	60	563	2/36
45	85	139	65	289	57	869	52	978	75	250	52	317	70	422	88	.580	222
4:0	67	120	92	279	104	908	42	1014	95	275	25	395	80	589	89.	758	2446
15	94	127	70.	291	57	877	33	967	65	300	41	406	61	647	78	786	2450
30	60	116	54	230	70	866	20	956	1.5	265	35	365	57	618	71	746	229-
45	104	148	75	327	74	799	50	923	60	300	32	392	78	626	66	770	241:
5:10	150	119	70	289	69	779	36	884	90	350	30	450	65	638	82	785	2401
15	110	187	55	352	98	813	44	945	85	395	42	522	65	1001	85	811	2630
30	109	97	12.	.248	55	150	33	838	55	350	33	438	57	701	75	833	235
45	55	140	56	261	66	834	21	921	100	355	22	443	56	716	70	:842	246
6:10	64	118	47	229	80	739	29	848	75	275	21	37:1	49	726	74	849	229
	1				1												



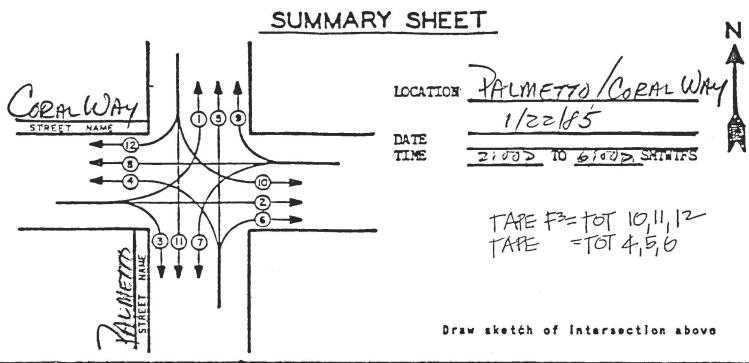
MOR PM	1	2	3	TOTAL 1-2-3	4	5	6	10TAL 4-5-6	7	8	9	7-8-9	10	11	12	TOTAL	ATOTA
7:15	52	191			64	1453	67	1584	17	125	45	187	25			146	
,0.	46	4F6	41.	573	74	495	94	1663	3	200	66	297	43	687	78	758	3291
45	63	407	56	526	91	1651	100	1842	34	145	75	254	48	.773	45	866	3488
8:00	57	577	36	670	88	1699	138	1925	36	125	103	264	49	1022	27	1098	395
15	72	492	33	597	108	1508	172	1788	34	_	123		70	1074	23	1167	
30	82	4.95	33	600	122	1342	143	1607	43	225	121	386	67	1048	29	1144	373
45	98	525	30	633	108	1325	103	1536	42	188	68	298	43	1083	18	1144	3611
9,50	73	521	56	650	97	1289	115	1501	32	203	88	323.	58	981	46	1085	355
15	106	545	100	711	77	1303	81	1461	23	190	62	275	53	982	50	1085	3532
30	21	187	35	543	75	1298	65	1438	31	192	51	274	48	839	50	937	3192
45	24	295	60	379	73	1281	56	1410	47	704	52	303	38	896	40	974	3061
10:50	31	367	65	463	81	1200	53	1334	43	188	45	276	73	797	35	905	2979
15	35	397	80	512	69	1093	52	1214	18	174	50	242	109	757	36	902	2870
30	34	315	70	.419	71	1108	40	1219	28	157	39	224	92	743	27	862	272,
75	47	1396	85	428	104	1062	43	1169	17	144	50	211	75	727	48	850	2650
11:00	29	753	47	329	56	1139	42	1237	17	1159	52	238	68	881	26	975	277
															1		
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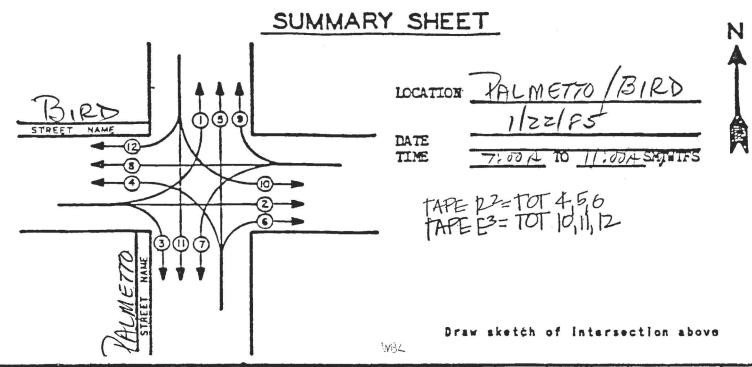
TIME YOR PM	1	2	3	TOTAL 1-2-3	4	5	6	TOTAL 4-5-6	7	8	9	TOTAL 7-8-9	10	11	12	TOTAL	TOTAL
21.15	27	271	30	328	74	1065	58	1147	-	273	53				30	1171	
٥.	32	285	90	407	42	986	57	1085	_	267	55		_		98	1134	
45	44	267	154	465	62	979	71	1112		342	51				95	1154	
3:10	56	292	165	.513.	73	141	55	1269	19	303	59	386	30	.1083	95	1208	3376
15	101	258	104	423	79	1046	(0B	1193	33	278	57	368	73	1236	.31	1340	332
30	32	333	56	421	75	1024	85	1184	45	322	57	424	76	1266	.19.	1361	339c
45	43	274	107	424	62	1049	98	1209	54	344	90	493	81	126	100	1442	3568
40	46	336	141	523	57	1242	58	1357	44	409	51	504	107	1541	55	1663	404
15	61	31B	163	542	96	1125	159	1280	51	387	102	540	75	1657	54	1786	4148
30	69	353	192	619	62	1000	81	1143	36	337	113	486	60	1580	65	1705	3953
45	94	425	144	653	71	1072	56	1199	44	338	67	499	71	1571	61	1703	4052
5:00	54	353	160	572	102	913	75		38	455	62	555	84	mq	60	1923	4100
15	31	305	238	624	58	966	60	1084	31	420	51	552	90	1739	135	1964	422
30	94	315	104	.513	97	908	67	1072	86	445	57	588	105	1758	170	1983	4154
45	99	323	45	467	71	1000	40		710	470	63	609	126	1826	70	2022	420
1:00	91	767	80	438	37	927	43	1057	1,9	345	43	457	103	1714	100	1917	386
							1									1	100



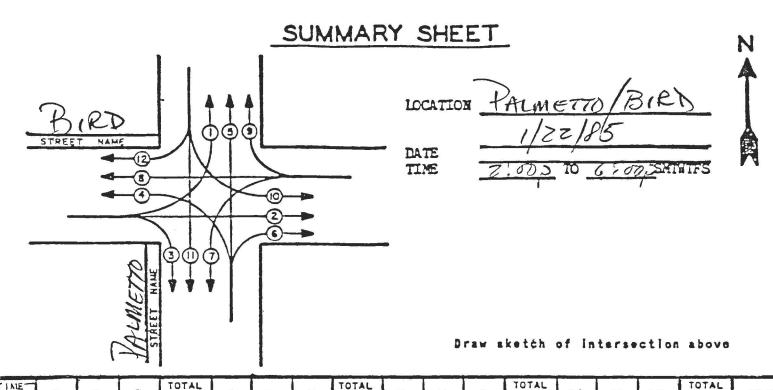
										1.0	1		100				
MON PM	1	2	3	TOTAL 1-2-3	4	5	6	TOTAL 4-5-6	7	8	9.	70TAL 7-8-9	10	п	12	TOTAL 10-11-12	TOTA
71:15		270	_	-	22	1291	33	1346	4	-		-	41	438	30	509	
ر)ر.	143	390	32	565	20	1345	42	1407	11	117	58	186	43	498	44	585	274=
45	151	458	23	632	30	1529	66	625	21	159	55	235	63	564	61.	688	318C
8:00	167	484	7.7	678	30	1618	72	1720	33	207	60	300	75	605	66	746	3444
15	138	523	33	694	46	1593	96	1735	30	130	37	197	60	367	39	466	3092
30	137	742	34	913	43	1428	86	1557	28	177	41	246	70	318	47	435	3 5
45	131	360	76	517	35	1381	78	1494	77	164	50	241	52	3713	44	.469	2721
9:03	103	717	34	354	36	1317	FO	1433	29	194	52	275	68	341	57	466	2524
15	108	313	20	341	40	1365	60	1465	26	158	43	227	33	287	37	357	239C
30	107	753	15	381	20	1193	65	1278	14	137	42	193	38	337	27	402	225.
45	90	152	27	269	21	1161	40	1222	23	92	41	156	46	268	39	353	200
10:00	93	166	32	291	24	1158	57	1239	15	116	35	172	29	294	31	354	2054
15	92	712	75	329	34	1055	74	1163	15	114	35	163	32	397	28	457	2112
30	101	189	23	.313	22	1018	42	1082	16	115	37	168	28	183	31	242	1805
45	83	142	26	251	.37	928	48	1013	20	170	39	229	29	454	24	507	200
11:10	90	153	35	278	32	988	45	1065	20	157	40	217	28	550	72	600	2160
											1		1			1	



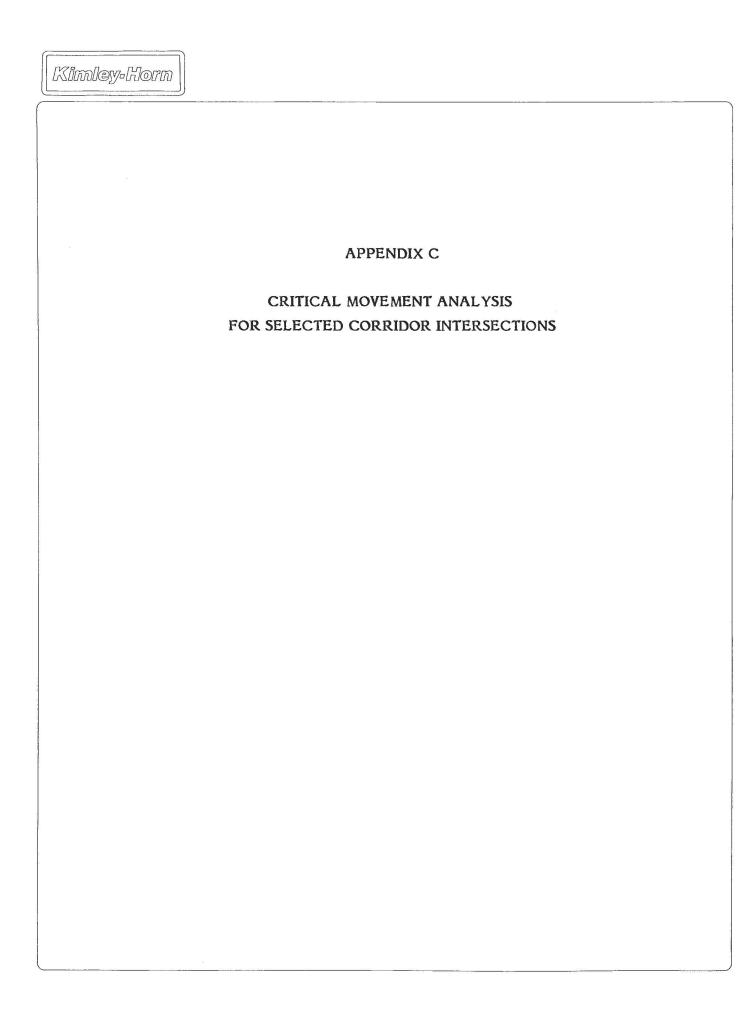
TIME				TOTAL				TOTAL				TOTAL	10		10	TOTAL	F1001
MON PM	1	2	3	1-2-3	4	5	6	4-5-4	7	8	9	7 - 8 - 9	10	11	12	0-11-12	ATOTA
2:15	96	128	24	248	42	952	60	1054	22	234	39	295	43	505	74	622	2219
0.	122	1.53	33	308	410	937	53	1036	ZO	292	56	368	60	493	73	626	2338
45	100	127	34.	261	43	953	57	1058	19	297	37	353	58	505	94	65.7.	2325
71.00	105	1)(25	241	43	1004	51	1098	29	312	50	391	42	550	58	650	238(
15	90	3.34	37	461	46	1010	55	1111	32	338	42	412	55	558	61	674	2658
30	95	308	55	.458	41	990	68	1099	31	324	57	412	37	630	39	706	267E
45	87	363	50	500	45	1063	53	1101	32	371	61	464	62	605	68	.735	286
410	90	19/	59	340	42	1063	50	1155	42	310	52	404	52	726	62	8,40	2739
15	75	213	53.	346	58	929	72	1089	36	293	53	382	82	750	77	909	272
30	95	130	47	322	53	946	55	1054	35	349	45	429	69	620	85	174	257
45	80	191	43	314	54	905	63	1022	27	327	45	399	82	779	79	940	26%
5:00	69	<i>325</i>	51	345	41	981	54	1076	39	316	46	401	88	172	94	954	2776
15	110	167	38	315	67	844	91	1002	28	435	60	523	97	184	82	963	2801
30	90	127	47	.264	69	916	65	1050	42	487	40	569	77	814	92	983	2862
45	90	214	31	335	59	962	50	1071	33	509.		577	81	868	72	1021	3000
6:00	62	271	28	36	57	837	51	945	30	509	42	581	62	883	73	1018	2901
															F		



MOR PM	1	2	3	TOTAL 1-2-3	4	5	6	TOTAL 4-5-6	7	8	9	TOTAL 7-8-9	10	11		TOTAL	TOTAL
7:15	85	460	20	565	53	1136	140	1329	36			-	89	364	45	498	
ე.	110	465	31	606	50	329	240	619	29	_	_	-	71	500	49	620	
45	70	680	37	787	85	334	300	719	60		_		102	556	63	721	
8:00	50	610	33	.693	90	379	260	729	56		_	-	128	686	79	.893	_
15	100	610	36	746	70	761	246	1077	85)	_		132	655	99	686	
30	80	645	28	753	75	761	376		77			-	72	675	102	.849	_
45	90	620	48	758	103	822	303		64	_	_	-	125	668	99	.892	
9:00	70	105	47	722	63	782	740	1085	61	_)	<u>-</u>	106	621	119	846	
15	60	530	44	624	42	843	193	1078	69	343	96	508	145	473	115	733	294
30	50	410	43	503	89	677	210	976	75	408	134	617	156	503	110	769	286
45	50	390	34	474	38	818	28	944	98	746	67	411	82	549	85	716	254!
10:07	50	365	44	459	32	692	138		71	245	96	412	127	466	89	682	2415
15	80	325	38	443	38	739	91	868	66	261	81	408	117	422	84	623	234
30	60	370	40	470	37	701	93	831	181	273	75	429	88	_	86	-	-
45	60	375	41	476	47	679	89	815	78	326	61	465	89.	-	60	-	
11:00)	75	390	34	499	53	670	101	824	75	337	56	468	119	_	103	-	1-
															1		1



OR PM	1	2	3	1-2-3	4	5	6	4-5-6	7	8	9	7-8-9	10	11	12	10-11-12	IATOT
115	51	415	45	511	55	680	35	770	91	329	47	467	120	503	125	748	2496
	61	370	62	493	30	729	55	814	106	415	76	597	134	51:1	114	759	2663
45	81	460	56	597	40	771	65	876	76	318	65	459	118	,580	103	801	2733
:00	71	430	44	545	65	647	60	772	134	334	65	533	120	568	135	823	2673
15	53	415	53	521	56	683	00	824	125	296	60	481	118	566	137	821	2647
30	63	430	79	572	68	695	100	863	127	251	50	428	126	595	146	867	2730
45	80	450	35	565	100	6910	125	915	119	341	54	514	117	676	153	946	2940
1:00	F5	440	1,5	590	122	559	128	809	106	395	48	549	139	664	1.78	981	2929
15	92	330	<i>5</i> 3	475	153	452	141	746	154	441	56	651	150	759	207	1116	2988
30	70	335	42	477	135	567	108	810	155	500	74	735	101	1013	139	1253	3275
45	90	320	51	461	63	691	60	814	170	705	139	1014	146	637	194	977	3266
5:00	81	275	56	412	38	729	40	807	168	638	81	887	151	903	185	1239	3345
15	83	Z90	50	423	85	639	69	793	199	812	142	1153	146	992	187	1325	
30	158	785	55	.498	81	680	55	816	207	917	111	1235	119	1	130	155	3908
45	74	275	60	409	47	674	الرال	776	724	577	57	858	181	989			3454
,; 60	106	275	50	431	27	620	60	707	195	418	62	675	198	1004	252	1454	3267
	1														1		1



FILE: TAMIAMIAM .CMA

CRITICAL MOVEMENT ANALYSIS

REPORT TAMIAMI AND SW 87 AVE DATE PM PEAK HOUR

LEVEL OF SERVICE E SATURATION 112% CRITICAL N/S VOL 661

CRITICAL E/W VOL 1188 CRITICAL SUM 1849

LANE		UNDOAH HTOIW	LANE GEOMETI SOUTHBOUND MOV WIDTH	RY EASTBOUND MOV WIDTH	WESTBOUND MOV WIDTH
1 2 3 4 5 6	R T L	12.0 12.0 12.0 12.0	T 12.0 T 12.0 L 12.0	R. 12.0 T. 12.0 T. 12.0 L. 12.0	R 12.0 T 12.0 T 12.0 L 12.0
	NORT	HBOUND	TRAFFIC VOLUMI SOUTHBOUND	ES EASTBOUND	WESTBOUND
LEFT THRU RIGHT		79 451 O	80 1050 0	120 1161 0	133 1806 O
NORTHBO SOUTHBO EASTBO WESTBO	UND UND	TRUCKS (%) 5 5 5 5	LOCAL BUSE:	6 (#/HR) PEA 0 0 0 0	NK HOUR FACTOR .9 .95 .87 .92
PHASING PEDESTR CYCLE L LEFTS/C	IAN AC ENGTH		BOTH TURNS PI BOTH TURNS PI O - OO SECONDS		I OVERLAP) I OVERLAP)
		CRITI	CAL LANE VOLUME:	S BY MOVEMENT	

THRU -RIGHT LEFT	NORTHBOUND 398 52	SOUTHBOUND 609 51	EASTBOUND 735 104	WESTBOUND 1082 116
		LEFT TURN CHEC	к	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND 79 52 0 N/A	SOUTHBOUND 80 51 O N/A	EASTBOUND 120 106 O N/A	WESTBOUND 133 116 O N/A

REPORT SW 107 AND SW 104 DATE HOV AM PEAK

LEVEL OF SERVICE D
SATURATION 79%
CRITICAL N/S VOL 628
CRITICAL E/W VOL 670
CRITICAL SUM 1298

LANE		HBOUND WIDTH	LANE SOUTHB MOV WII		EASTBI MOV W		WESTBO	Complete National
1 2 3 4 5 6		12.0	RT.	12.0 12.0 12.0	T	12.0 12.0 12.0	RT. T L	12.0
	NORT	HBOUND	TRAFFI SOUTHB	C VOLUMES OUND	EASTB	OUND	WESTBO	IUND
LEFT THRU RIGHT		574 0 0		433 17 0		103 154 0		9 :45 86
NORTHBO SOUTHBO EASTBO WESTBO	UND	TRUCKS (%) 5 5 5 5	roċ	AL BUSES (O O O		PEAK + .86 -76 -25 -89	<u>4</u> 5	:TOR
PHASING PEDESTR CYCLE LI LEFTS/C	ENGTH	TIVITY: 1.	HEAVIEST	TURNS PROT TURN PROT O - 99 DS	ECTED		VERLAP)	

THRU -RIGHT LEFT	NORTHBOUND O 385	SOUTHBOUND 11 628	EASTBOUND 670 119	WESTBOUND 261 61
		LEFT TURN CHE	SK .	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND 574 735 O N/A	SOUTHBOUND 433 628 O N/A	EASTBOUND 103 119 470 N/A	WESTBOUND 9 61 O NO

REPORT SW 107 AND SW 104

LEVEL OF SERVICE E SATURATION 90% CRITICAL N/S VOL 917 CRITICAL E/W VOL 571

CRITICAL SUM 1488

LANE		MIDTH MIDTH	LANE GEOMET SOUTHBOUND MOV WIDTH	TRY EASTBOUND MOV WIDTH	WESTBOUND MOV WIDTH
1 2 3 4 5	L	12.0	R 12.0 RT. 12.0 L 12.0	T 12.0 T 12.0 L 12.0	T 12.0
	NORT	HBOUNE	TRAFFIC VOLUM SOUTHBOUND	IES EASTBOUND	WESTEOUND
LEFT THRU RIGHT		1141 O O	463 78 142	14 643 0	47 366 0
NORTHBO SOUTHBO EASTBO WESTBO	UND	TRUCKS (%) 5 5 5 5 5	LOCAL BUSE	ES (#/HR) P 0 0 0 0	EAK HOUR FACTOR .84 .9 .69 .88
PHASING PEDESTR CYCLE L LEFTS/C	IAN AC ENGTH	N/S :4. E/W :4. TIVITY : 1 : 10			TH OVERLAP) TH OVERLAP)

THRU -RIGHT LEFT	NORTHBOUND O 785	SOUTHBOUND 132 567	EASTBOUND 513 22	WESTBOUND 229 58
		LEFT TURN CHEC	ж	
	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
INPUT VOLUME	1141	463	14	4.7
ADJUSTED VOL	1497	567	22	58
CAPACITY	O	O	O	0
MOVEMENT	N/A	N/A	N/A	N/A

REPORT PALMETTO-FLAGLER WEST LEG DATE AM PEAK HOUR

LEVEL OF SERVICE B SATURATION 65% CRITICAL N/S VOL 320

CRITICAL E/W VOL 748 CRITICAL SUM 1068

LANE		HBOUND WIDTH		NE GEOMETR\ HBOUND VIDTH		BOUND WIDTH	WESTE MOV W	
1 2 3 4 5 6			L	12.0	T	12.0 12.0 12.0	T T L	12.0 12.0 12.0
	NORT	HBOUND		FIC VOLUMES BOUND		BOUND	WESTB(OUND
LEFT THRU RIGHT		o o o		257 0 0		212 766 0		0 809 0
NORTHBO SOUTHBO EASTBO WESTBO	UND UND	TRUCKS (%) 5 5 5 5 5	Lö		(#/HR) 0 0 0 0	. :	HOUR FAI 1 76 82 87	CTOR
PHASING PEDESTR CYCLE L LEFTS/C	IAN AC ENGTH	E/W :2. TIVITY : 1	HEAVIES	0 - 9		OS/HR)		

THRU -RIGHT LEFT	NORTHBOUND O O	SOUTHBOUND O 320	EASTBOUND 514 236	WESTBOUND 512 O
		LEFT TURN CHEC	⊃K	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND O O 320 OK	SOUTHBOUND 257 320 0 N/A	EASTBOUND 212 236 2 N/A	WESTBOUND O O 234 OK

REPORT PALMETTO-FLAGLER WEST LEG DATE PM PEAK HOUR

LEVEL OF SERVICE E SATURATION 94% CRITICAL N/S VOL 297 CRITICAL E/W VOL 1252 CRITICAL SUM 1549

LANE	NORTHE MOV WI		LANE SOUTHBO MOV WID	100,000,000	EASTBOUN MOV WIDT		WESTBO MOV WI	
1 2 3 4 5 6			L 1	2.0	T 1.2	2.0	T T L	12.0 12.0 12.0
	NORTHE	зоимр	TRAFFIC SOUTHBO	: VOLUMES IUND	EASTBOUM	(IC)	WESTBO	UND
LEFT THRU RIGHT		0 0 0	2	65 0 0	242 551 0	i.	15	0 24 0
NORTHBO SOUTHBO EASTBO WESTBO	UND UND UND	FRUCKS (%) 5 5 5 5	LOCA	L BUSES († 0 0 0 0	#/HR)	PEAK HO 1 .85 .82 .84	OUR FAC	TOR
PHASING PEDESTR CYCLE LI LEFTS/C	ENGTH	E/W :2. H	HEAVIEST	TURN PROTE 0 - 99	ECTED ECTED (#PEDS/H	HR)		
		CRITIC	CAL LANE	AOTAMES B,	Y MOVEMEN	IT		

THRU -RIGHT LEFT	NORTHBOUND O O	SOUTHBOUND O 297	EASTBOUND 370 276	WESTBOUND 976 O
		LEFT TURN CHEC	:K	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND O O 297 OK	SOUTHBOUND 245 297 O N/A	EASTBOUND 242 276 O N/A	WESTBOUND O O 882 OK

FILE: FLAGLERPMW.CMA

CRITICAL MOVEMENT ANALYSIS

REPORT PALMETTO-FLAGLER EAST LEG DATE AM PEAK HOUR

LEVEL OF SERVICE D SATURATION 83% CRITICAL N/S VOL 440 CRITICAL E/W VOL 923 CRITICAL SUM 1363

LANE	4 100 1 1 1 1	ABOUND HBOUND	LANE GEOMETRY SOUTHBOUND MOV WIDTH	EASTBOUND MOV WIDTH	WESTBOUND MOV WIDTH
1 2 3 4 5 6			L 12.0	T 12.0 T 12.0 L 12.0	T 12.0 T 12.0 L 12.0
	NORT	HBOUND	TRAFFIC VOLUMES SOUTHBOUND	EASTBOUND	WESTBOUND
LEFT THRU RIGHT		0 0 0	316 0 0	326 811 0	0 635 0
NORTHBOL SOUTHBOL EASTBOL WESTBOL	JND DNL	TRUCKS (%) 5 5 5 5 5	(0 0 0	HOUR FACTOR 1 .7 65 81
PHASING PEDESTRI CYCLE LE LEFTS/CY	ENGTH	E/W :2. TIVITY : 1	HEAVIEST TURN PRO HEAVIEST TURN PRO O - 9' DO SECONDS		

THRU -RIGHT LEFT	NORTHBOUND O O	SOUTHBOUND O 440	EASTBOUND 687 491	WESTBOUND 432 0
		LEFT TURN CHEC	ж	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND O O 440 OK	SOUTHBOUND 316 440 O N/A	EASTBOUND 326 491 255 N/A	WESTBOUND O O 236 OK

FILE: FLAGLERAME.CMA

CRITICAL MOVEMENT ANALYSIS

REPORT PALMETTO-FLAGLER EAST LEG DATE PM PEAK HOUR

LEVEL OF SERVICE E SATURATION 94% CRITICAL N/S VOL 170

CRITICAL N/S VOL 170 CRITICAL E/W VOL 1385 CRITICAL SUM 1555

LANE		MIDTH HBOUND	SOU	ANE GEOM JTHBOUND / WIDTH	ETRY	EASTI MOV l		WESTB MOV W	
1 2 3 4 5 6			L	12.0		T	12.0 12.0 12.0	T T	12.0
	NORTI	HBOUND		AFFIC VOL JTÅBOUND	UMES	EASTI	BOUND	WESTB	OUND
LEFT THRU RIGHT		0 0 0		163 0 0			423 566 0	1	0 375 0
NORTHBOU SOUTHBOU EASTBOU WESTBOU	UNI UNI	TRUCKS (5 5 5 5		LOCAL BU	SES (‡ 0 0 0 0	‡/HR)	sa **	(HOUR FA 1 .82 .83 .87	CTOR
PHASING PEDESTR: CYCLE LE LEFTS/CY	ENGTH	E/W :2	. HEAVI . HEAVI 1. 100 SE	EST TURN O		ECTED	08/HR)		

THRU -RIGHT LEFT	NORTHBOUND O O	SOUTHBOUND O 170	EASTBOUND 375 514	WESTBOUND 871 O
		LEFT TURN CHEC	CK COLOR	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND O O 170 OK	SOUTHBOUND 163 170 O N/A	EASTBOUND 423 514 O N/A	WESTBOUND O O 1010 OK

FILE: FLAGLERPME.CMA

CRITICAL MOVEMENT ANALYSIS

REPORT PALMETTO-CORAL WAY EAST LEG DATE AM PEAK HOUR

LEVEL OF SERVICE E
SATURATION 112%
CRITICAL N/S VOL 153
CRITICAL E/W VOL 1695

CRITICAL SUM 1848

LANE		HBOUND WIDTH	LANE GEOMETRY SOUTHBOUND MOV WIDTH	EASTBOUND MOV WIDTH	WESTBOUND MOV WIDTH
1 2 3 4 5 6		12.0		T 12.0 T 12.0	T. 12.0 T. 12.0 L. 12.0
	NORT	HBOUND	TRAFFIC VOLUMES SOUTHBOUND	EASTBOUND	WESTBOUND
LEFT THRU RIGHT		149 O O	0 0 0	0 1882 0	193 673 0
NORTHBOU SOUTHBOU EASTBOU WESTBOU	UND UNL	TRUCKS (%) 5 5 5 5		o o o	HOUR FACTOR 1 .7 81
PHASING PEDESTR: CYCLE LE LEFTS/C	ENGTH	E/W :2. H TIVITY : 1.	HEAVIEST TURN PRO	TECTED TECTED 9 (#PEDS/HR)	

THRU -RIGHT LEFT	NORTHBOUND O 153	SOUTHBOUND O O	EASTBOUND 1482 O	WESTBOUND 458 213
		LEFT TURN CHEC	ж	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND 149 153 O N/A	SOUTHBOUND O O 153 OK	EASTBOUND O O 1237 OK	WESTBOUND 193 213 O N/A

FILE: CORALAME . CMA

CRITICAL MOVEMENT ANALYSIS

REPORT PALMETTO-CORAL WAY EASTLEG DATE PM PEAK HOUR

LEVEL OF SERVICE D SATURATION 78% CRITICAL N/S VOL 255 CRITICAL E/W VOL 1027 CRITICAL SUM 1282

LANE		ANDOUN HTGIN	LANE GEOMETRY SOUTHBOUND MOV WIDTH	Y EASTBOUND MOV WIDTH	WESTBOUND MOV WIDTH
1 2 3 4 5 6	L	12.0		T 12.0 T 12.0	T 12.0 T 12.0 L 12.0
	NORT	HBOUND	TRAFFIC VOLUME: SOUTHBOUND	S EASTBOUND	WESTBOUND
LEFT THRU RIGHT		231 0 0	0 0 0	0 705 0	191 1565 O
NORTHBOU SOUTHBOU EASTBOU WESTBOU	JND JND	TRUCKS (%) 5 5 5 5	LOCAL BUSES	(#/HR) PEA 0 0 0 0	K HOUR FACTOR .84 1 .72 .84
PHASING PEDESTR: CYCLE LE LEFTS/C	ENGTH	E/W :2. I	HEAVIEST TURN PRO HEAVIEST TURN PRO O - 9		

THRU -RIGHT LEFT	NORTHBOUND O 255	SOUTHBOUND O O	EASTBOUND 539 O	WESTBOUND 1027 203
		LEFT TURN CHEC	ж	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND 231 255 O N/A	SOUTHBOUND O O 255 OK	EASTBOUND O O O OK	WESTBOUND 191 203 488 N/A

FILE: CORALPME .CMA

CRITICAL MOVEMENT ANALYSIS

REPORT PALMETTO-CORAL WAY DATE WEST AM PEAK HOUR

LEVEL OF SERVICE E SATURATION 116% CRITICAL N/S VOL 287 CRITICAL E/W VOL 1622 CRITICAL SUM 1909

LANE		HBOUND WIDTH	LANE (SOUTHBOU MOV WIDT		ASTBOUND OV WIDTH		UNDOH HTGIW
1 2 3 4 5	* * *	* * * * * * * * * * * * * * * * * * * *	L. 12		12.0 12.0 12.0	T	12.0
	NORT	HBOUND	TRAFFIC SOUTHBOL		ASTBOUND	WEST	rbound
LEFT THRU RIGHT		0 0 0	26	8 0 0	117 2207 0		0 616 0
NORTHBO SOUTHBO EASTBO WESTBO	UND	TRUCKS (%) 5 5 5 5	LOCAL	. BUSES (#/H O O O O	HR) PE6	AK HOUR F 1 .89 .75 .86	FACTOR
PHASING PEDESTR CYCLE L LEFTS/C	IAN AC ENGTH	E/W :2. TIVITY : 1		TURN PROTECT TURN PROTECT O — 99 (†	TED		
PEDESTR CYCLE L	IAN AC ENGTH	E/W :2. TIVITY : 1	HEAVIEST T	URN PROTECT 0 - 99 (4	TED		

THRU -RIGHT LEFT	NORTHBOUND O O	SOUTHBOUND O 287	EASTBOUND 1622 119	WESTBOUND 394 O
		LEFT TURN CHEC	CK C	
INPUT VOLUME ADJUSTED VOL CAPACITY	NORTHBOUND O O 287	SOUTHBOUND 268 287 O	EASTBOUND 117 119 1228	WESTBOUND O O O
MOVEMENT	OK	N/A	N/A	0K

FILE: CORALAMW . CMA

CRITICAL MOVEMENT ANALYSIS

REPORT PALMETTO-CORAL WAY WEST LEG

DATE PM PEAK HOUR

LEVEL OF SERVICE E SATURATION 104% CRITICAL N/S VOL 381 CRITICAL E/W VOL 1328 CRITICAL SUM 1709

LANE		HBOUND WIDTH	LANE SOUTHB MOV WI		EASTB MOV W		WESTBO	
1 2 3 4 5 6				12.0	T L	12.0 12.0 12.0	T	12.0
	NORT	HBOUND	TRAFFI SOUTHB	C VOLUMES OUND	EASTE	ROUNE	WESTBO	OUND
LEFT THRU RIGHT		0 0 0		344 O O		179 710 0	1.6	0 05 0
NORTHBOU SOUTHBOU EASTBOU WESTBOU	IND IND	TRUCKS (%) 5 5 5 5 5	LOC	AL BUSES (C C)))		1	STOR
PHASING PEDESTRI CYCLE LE LEFTS/CY	ENGTH	E/W :2. F TIVITY : 1.	HEAVIEST	0 - 99	FECTED FECTED P (#PED	IS/HR)		

THRU -RIGHT LEFT	NORTHBOUND O O	SOUTHBOUND O 381	EASTBOUND 483 194	WESTBOUND 1134 O
		LEFT TURN CHEC	Ж	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND O O 381 OK	SOUTHBOUND 344 381 O N/A	EASTBOUND 179 194 O N/A	WESTBOUND O O 845 OK

FILE: TAMIAMIAM . CMA

CRITICAL MOVEMENT ANALYSIS

REPORT TAMIAMI AND SW 87 AVE

LEVEL OF SERVICE E SATURATION 99% CRITICAL N/S VOL 706 CRITICAL E/W VOL 932 CRITICAL SUM 1638

LANE		HBOUND WIDTH	LANE GEOM SOUTHBOUND MOV WIDTH	ETRY EASTBO MOV W:		WESTBO MOV WI	
1 2 3 4 5 6	R T T L	12.0 12.0 12.0 12.0	T 12.0 T 12.0 L 12.0	R T L	12.0 12.0 12.0 12.0	R T L	12.0 12.0 12.0 12.0
	NORT	HBOUND	TRAFFIC VOL SOUTHBOUND	UMES EASTB(סטאס	WESTBO	UND
LEFT THRU RIGHT		55 1189 63	51 465 27	1.4	78 464 O	10	68 24 51
NORTHBO SOUTHBO EASTBO WESTBO	OUNE OUNE	TRUCKS (%) 5 5 5 5 5	LOCAL BU	SES (#/HR) 0 0 0 0	PEAK H0 .95 .96 .9	OUR FAC	:TOR
PHASING PEDESTF CYCLE L LEFTS/G	RIAN AC LENGTH	N/S :4. E/W :4. TIVITY : 1 : 1	BOTH TURNS	PROTECTED PROTECTED - 99 (#PEDS	(WITH DVE	0.00000 000 0	
		CRITI	CALLANE VOLL	MES BY MOUEN	MENT		

THRU -RIGHT LEFT	NORTHBOUND 689 22	SOUTHBOUND 267 17	EASTBOUND 896 51	WESTBOUND 587 36
		LEFT TURN CHEC	K	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND 55 22 0 N/A	SOUTHBOUND 51 17 O N/A	EASTBOUND 78 51 O N/A	WESTBOUND 68 36 0 N/A

FILE: CORALPMW .CMA

CRITICAL MOVEMENT ANALYSIS

REPORT PALMETTO-BIRD ROAD WEST LEG

DATE AM PEAK HOUR

LEVEL OF SERVICE E
SATURATION 115%
CRITICAL N/S VOL 535
CRITICAL E/W VOL 1368
CRITICAL SUM 1903

LANE	340 40000 4 040 5 0	MIDTH	LANE SOUTHBO MOV WID		EASTB MOV W		WESTB	
1 2 3 4 5 6			1	2.0	T T	12.0 12.0 12.0	T	12.0
	NORT	HBOUND	TRAFFIC SOUTHBO	: VOLUMES JUND	EASTE	OUND	WESTE	OUND
LEFT THRU RIGHT		0 0	4	34 0 0	2	0 545 0		273 170 0
NORTHBOL SOUTHBOL EASTBOL WESTBOL	IND IND	TRUCKS (%) 5 5 5 5	LOCA	L BUSES (O O O))	. 6	HOUR FAI 1 32 94 .8	CTOR
PHASING PEDESTRI CYCLE LE LEFTS/CY	NGTH	E/W :2. TIVITY : 1	HEAVIEST OO SECOND	TURN PROT TURN PROT O - 29 IS	ECTED	S/HR)		

THRU -RIGHT LEFT	NORTHBOUND O O	SOUTHBOUND O 535	EASTBOUND 1042 0	WESTBOUND 806 326
		LEFT TURN CHEC	ж	
INPUT VOLUME	NORTHBOUND	SOUTHBOUND 434	EASTBOUND	WESTBOUND 273
ADJUSTED VOL	Ö	535	Ö	326
CAPACITY	535	O	562	O
MOVEMENT	OK	N/A	OK	N/A

FILE: BIRDANW . CMA

CRITICAL MOVEMENT ANALYSIS

REPORT PALMETTO-BIRD ROAD DATE WEST LEG PM-PEAK HOUR

LEVEL OF SERVICE E
SATURATION 153%
CRITICAL N/S VOL 623
CRITICAL E/W VOL 1903
CRITICAL SUM 2526

LANE		HBOUND WIDTH	LANE GEOME SOUTHBOUND MOV WIDTH	EAST	ALCIN HTCII	WESTBO MOV WI	
1 2 3 4 5 6			L 12.0	T T	12.0 12.0 12.0	T T L	12.0 12.0 12.0
	NORT	HBOUND	TRAFFIC VOLU SOUTHBOUND		BOUND	WESTBO	UND
LEFT THRU RIGHT		0 0 0	562 0 0	:	0 1170 0	7- 28-	44 66 0
NORTHBOL SOUTHBOL EASTBOL WESTBOL	IND JND	TRUCKS (%) 5 5 5 5	LOCAL BUS	SES (#/HR) 0 0 0 0	. S	HOUR FAC 1 73 71 33	TOR
PHASING PEDESTRI CYCLE LE LEFTS/CY	NGTH	E/W :2. H TIVITY : 1.	HEAVIEST TURN HEAVIEST TURN O OO SECONDS				

THRU -RIGHT LEFT	NORTHBOUND O O	SOUTHBOUND O 623	EASTBOUND 495 O	WESTBOUND 1903 940
		LEFT TURN CHEC	к	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND O O 623 OK	SOUTHBOUND 562 623 O N/A	EASTBOUND O O O OK	WESTBOUND 744 940 1408 N/A

FILE: CORALAME .CMA

CRITICAL MOVEMENT ANALYSIS

REPORT PALMETTO-BIRD ROAD EAST LEG

DATE AM PEAK HOUR

LEVEL OF SERVICE D SATURATION 81% CRITICAL N/S VOL 351 CRITICAL E/W VOL 1042 CRITICAL SUM 1393

LANE		HBOUND WIDTH	LANE GEOMETRY SOUTHBOUND MOV WIDTH	Y EASTBOUND MOV WIDTH	WESTBOUND MOV WIDTH	
1 2 3 4 5 6	L	12.0		T 12.0 T 12.0 T 12.0	R 12.0 T 12.0 T 12.0 T 12.0	
	NORT	HBOUND	TRAFFIC VOLUMES	S EASTBOUND	WESTBOUND	
LEFT THRU RIGHT		320 0 0	0 0 0	0 2545 0	0 1108 212	
NORTHBOL SOUTHBOL EASTBOL WESTBOL	JND QNI	TRUCKS (%) 5 5 5 5	LOCAL BUSES	0 0 0	HOUR FACTOR 89 1 94 89	
PHASING PEDESTRI CYCLE LE LEFTS/CY	ENGTH	E/W :1. TIVITY: 1.	HEAVIEST TURN PRO NEITHER TURN PRO O - 9 OO SECONDS			

THRU -RIGHT LEFT	NORTHBOUND O 351	SOUTHBOUND O O	EASTBOUND 1042 O	WESTBOUND 479 O
		LEFT TURN CHEC	ж	
INPUT VOLUME ADJUSTED VOL CAPACITY MOVEMENT	NORTHBOUND 320 351 O N/A	SOUTHBOUND O O 351 OK	EASTBOUND O O 563 OK	WESTBOUND O O O OK

FILE: BIRDAME .CMA

CRITICAL MOVEMENT ANALYSIS

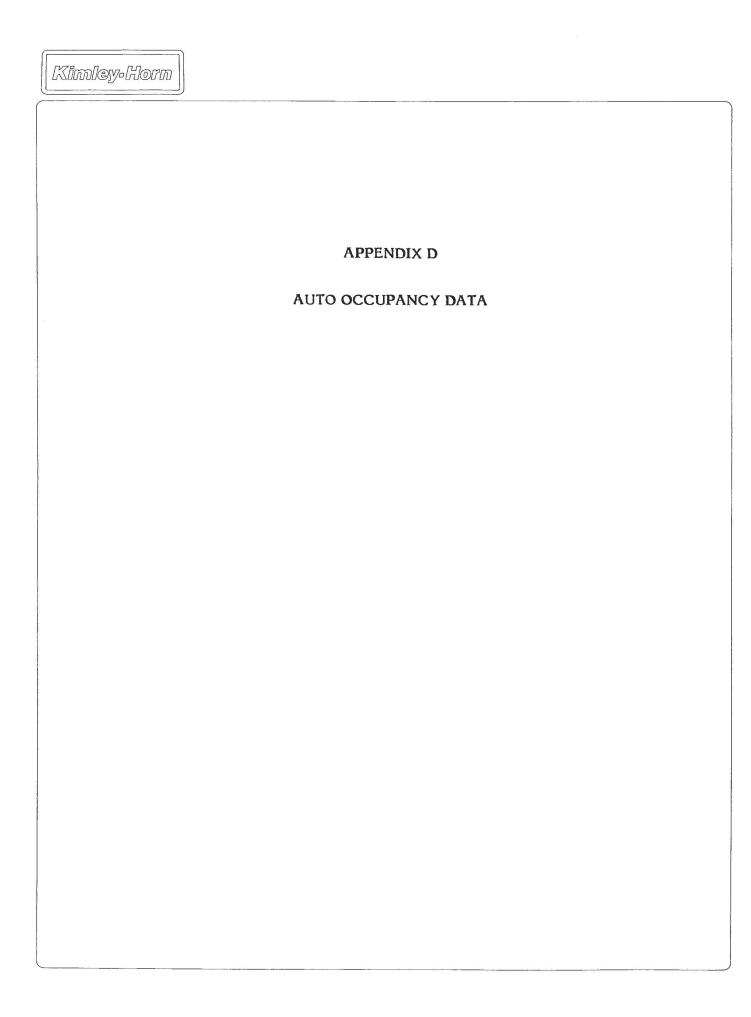
REPORT PALMETTO-BIRD ROADEAST LEG DATE PM PEAK HOUR

LEVEL OF SERVICE E SATURATION 96% CRITICAL N/S VOL 322 CRITICAL E/W VOL 1328

CRITICAL SUM 1650

LANE	NORTHBOUN MOV WIDTH	3	LANE SOUTHB MOV WII		EASTI	√IDTH BOUND	WESTBO	
1 2 3 4 5	L. 12.) 			T	12.0 12.0 12.0	R T T	12.0 12.0 12.0 12.0
	NORTHBOUN)	TRAFFI SOUTHB	C VOLUMES DUND	EAST	BONND	WESTBO	OUND
LEFT THRU RIGHT		7))		0 0 0	1	0 108 0		0 072 173
NORTHBOL SOUTHBOL EASTBOL WESTBOL	IND IND IND	(S (%) 5 5 5 5	LOC		(#/HR) 0 0 0 0	. ?	HOUR FAC 79 1 35 39	CTOR
PHASING PEDESTRI CYCLE LE LEFTS/CY		:1.				OS/HR)		
		CETTIC	OI LANE	VOLUMES.	RY MOUR	MENT		

THRU -RIGHT LEFT	NORTHBOUND O 322	SOUTHBOUND O O	EASTBOUND 501 O	WESTBOUND 1328 O
		LEFT TURN CHEC	ж	
	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND
PUT VOLUME	267	0	0	0
ADJUSTED VOL	322	0	0	0
CAPACITY	0	322	O	827
MOVEMENT	N/A	OK	ók	OK



VEhicle Occupancy Count

₹ 8° 8°	T fo Atuos 015	3.18d Rd Al	Intersection
Time	VEhicles	Occupants	AJERAGE
9:15	351	432	1.23
7:30	276	339	1.23
7:45	246	294	1.23
8:00	282	348	1,23
TOTAL	1149	1413	1123
8:15	354	435	1,22
8:30	299	364	1.23
8:45	3/8	390	1.23
9:00	276	339	1.23
Total	2396	294 l \528	1.23
4115	591	716	1,20
4/30	467	538	1.15
4:45	573	656	1114
5100	564	642	1.14
Total	2195	2546	1.16
5/15	585	619	1.16
5/30	627	724	1115
5145	704	818	1.114
6:00	768	817	1.16
TOTAL	2684 4879	3098 5299	1.15 1.16

VEhiclE Occupancy Count

5e 874	south of Bird	Pl at I m	reestation
Time	VEHICLE	Occupants	AVERAGE
1:15	324	366	
7:30	615	762	1.13
7:45	660	9.47	113
8:00	630	711	1.13
Total -	2289	2586	1.13
8:15	693	183	1.13
8:30	<u> </u>	735	1.13
8:45	963	1689	1.13
9:00	nn	816	1.13
TOTAL	3024	3417	77.73
1) 4115	868	いるいか	1.1.0
4:30	707	801	1.13
4145	25	194	1.10
5100	688	<u> 130</u>	1.06
Total	2988	3340	21.12
5115	713	764	1.07
5130	704	768	1.10
5145	522	590	1.13
6:00	303	358	1.18
Total	2242/5230	2480/5820	\.\\ ^{/<u>i.ii</u>}
		a personal	
in g			
		H. M. (28.3)	

	riche Occu	pancy Coun	
Bu		826	
Time	VEhicle	Occupants	FUERAGE
7:15	607	าาร	1.28
1:30	495	640	95.1
7:45	860	1/06	1.29
8:00	1037	9561	1.28
Tutal	2999	3853	1.28
2:15	· 1039	1326	1.28
8130	1007	1274	127
8:45	\$51	1077	1.26
9:00	1209	1515	1.25
TIAls	4112 7111	5192 9045	1.26
4:15	468	597	1158
4130	546	1982 19914 a	1.36
4145	419	535	1.28
5100	ALO 2	529	132
TOTAL	1835	2375	1.29
5115	AN SECONDAL MENTION DESCRIPTION AND AND AND AND AND AND AND AND AND AN	566 	1.33
5130	461	590	1.28
5:45	407	551	1.35

1031	1501	1.28
2999	3853	1.58
» 1039 ···	1326	1.28
1007	1274	127
557	1077	1.26
1209	1515	1.25
4112	5192 ¹⁹⁰⁴⁵	1.26 11.27
468	597	1.28
546	ाक्ष्या के गाय क	1.36
419	535	1.28
402	5 29 	1135
\83 <i>5</i>	2375	1.29
427	566	/33
461		1.28
407	551	\.35
343	465	1.36
\638 ³⁴⁷³	2172 145-47	133
	2999 1039 1000 1000 1000 1000 1000 1000 1	2999 3853 1039 1326 1007 1274 857 1077 1209 1515 4112 5192 9085 4112 5192 9085 4112 5192 9085 4112 5192 9085 4112 5192 9085 4112 5192 9085 4112 5192 9085 4112 5192 9085 4112 5192 9085 9085 4112 5192 9085 9085 9085 9085 9085 9085 9085 9085

Vehicle-Occupancy

	1:34					· · ·		1	Contract.	1		The state of the s	elegion 1
4	10	0	-	C-	1	1.16	e Enl	W/-	LEUNE	157	1	, Pry	LY.
J	11	0	-	Chestal	- 12	C. Lon	dan franch A	A mar from	Civactor	100	4	Mary how had	Janes, Street,

58836-R	etween he de	rue 169 4 REG	K9.
Time	1/Eh/0/65	Occupants	PUERAUE
7115	04/1/46	1310	5500
7:30	991	1151	ا۱۱۱
7:45	1205	1364	1.13
8:00	1003	1137	1.13
Total	4339	4962	1.14
8:15	1149	1294	1.13
8:30	1057	turisis surpisennessan satet to commission between the contractions and sates and sate	
8:45	1136	1737	1,08
9:00	1071	1/66	1.09
Totals	11413 18752	4883	1.10 11.12
4:15	1064	129	
4:30	936	1/37	manufacture of commencer and commencer and a state of the commencer and a
4145	839	1029	123
5:00	842	1035	1.23
Total	3681	SP44	1.22
5:15	Marian Contraction of the Contra	and the second s	
5130	856	965	1.13
5145	907	1041	1/15
6:00	850	9 59	1.13
	3553 ^{/7239}	4073	1.15

DELICIE Occupancy Count DE JEUNE Rd AT 5R 836 UELICLE Occupants Time CUERRA E 228 7:15 688 1.23 519 7:30 631 1.55 7:45 606 736 1.26 569 684 8:00 1.20 Totals 2252 2733 1.21 8115 713 902 1.27 399. 8:30 597 743 1.24 8:45 647 183 1.71

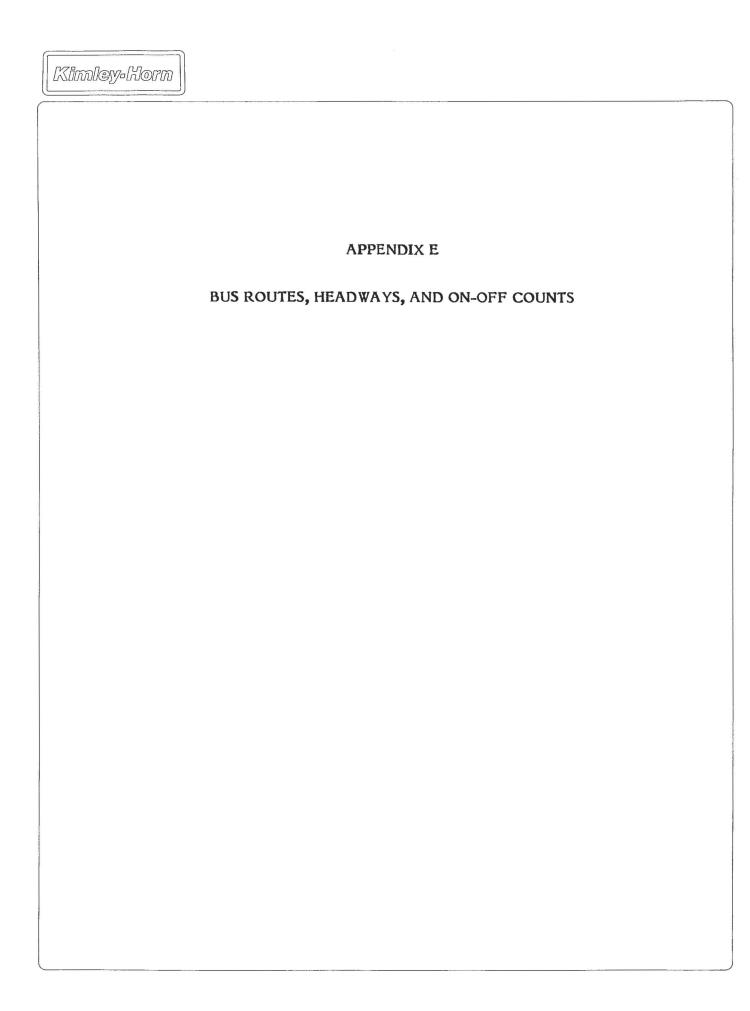
3,40	64	105	1. 2
9:00	686	841	1.23
Hals	2643	3269	1.24
4:15		519	1,40
4:30	324	461	11AS
4:45	341	464	1.36
5:00	320	442	The state of the s
TOTALS	1355	1886	A Security of the Control of the Con
5'.15	399	546	7.30
5:30	325	422	1.30
5145	415	530	82.1
6:00	339	463	1.37
Totals	1478 [2833]	1961 3847	The state of the s

		BI	ed le	59			
	1	2	3	4	5	6	TOTAL
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7:45	641	196	19	4	0	٥	1106
87:00	743	242	22	5	2		1329
8115	783	232	19	4	0		1326
8130	77]	215	15	3	2	7	1274
8:45	660	180	12	4		0	(077
9:00	941	237	25	5		0	1515
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4:15	344	120	3	1	O	6	597
4:30	390	148	5	2		0	714
4.45	325	95	3	0		1	535
5.00	289	105	4	3	6		529
5:15	313	111	6	2		6	566
5:30	350	49	8	3	٥	1	590
5:45	282	114	5	4	2	0	551
6:00	227		4		6	0	465
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7:30	605	C L	5	Z			762
7:45	589	60	7	3		0	747
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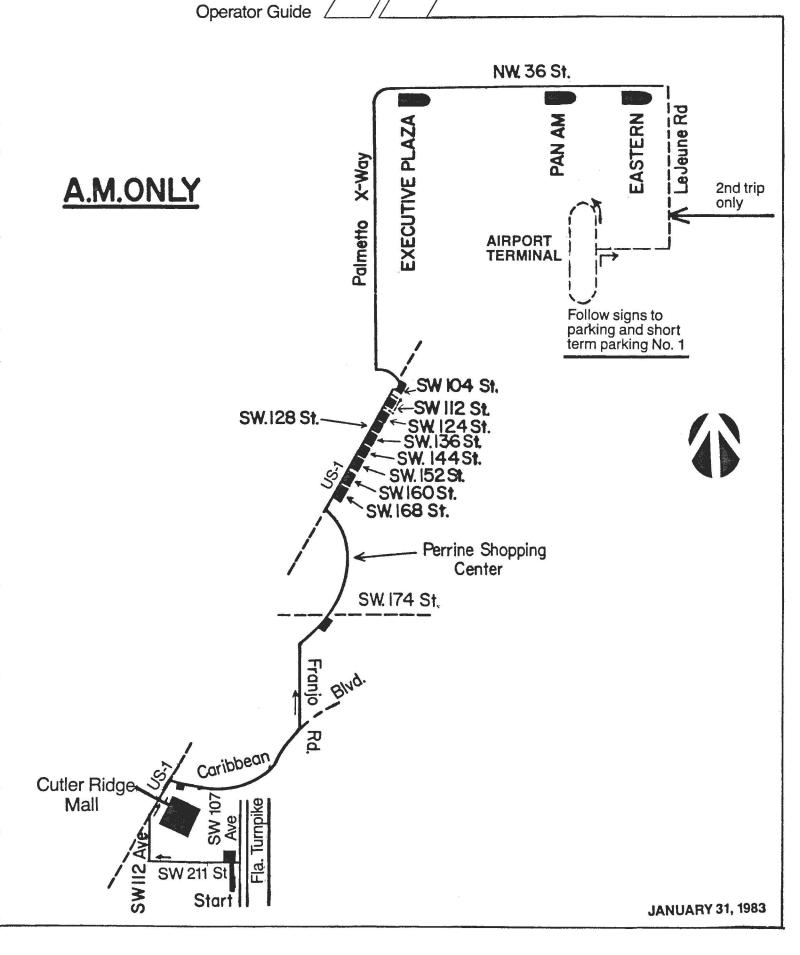
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5:00	498	59	3	3		6	642
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5:00	236	72	13	6		0	442
5:15	272	110	14	3	O	D	546
5:30	249	62	7	7	0	0	422
5.145	324	79	8	6	O	σ	530
6.00	240	90	10	2		8	463

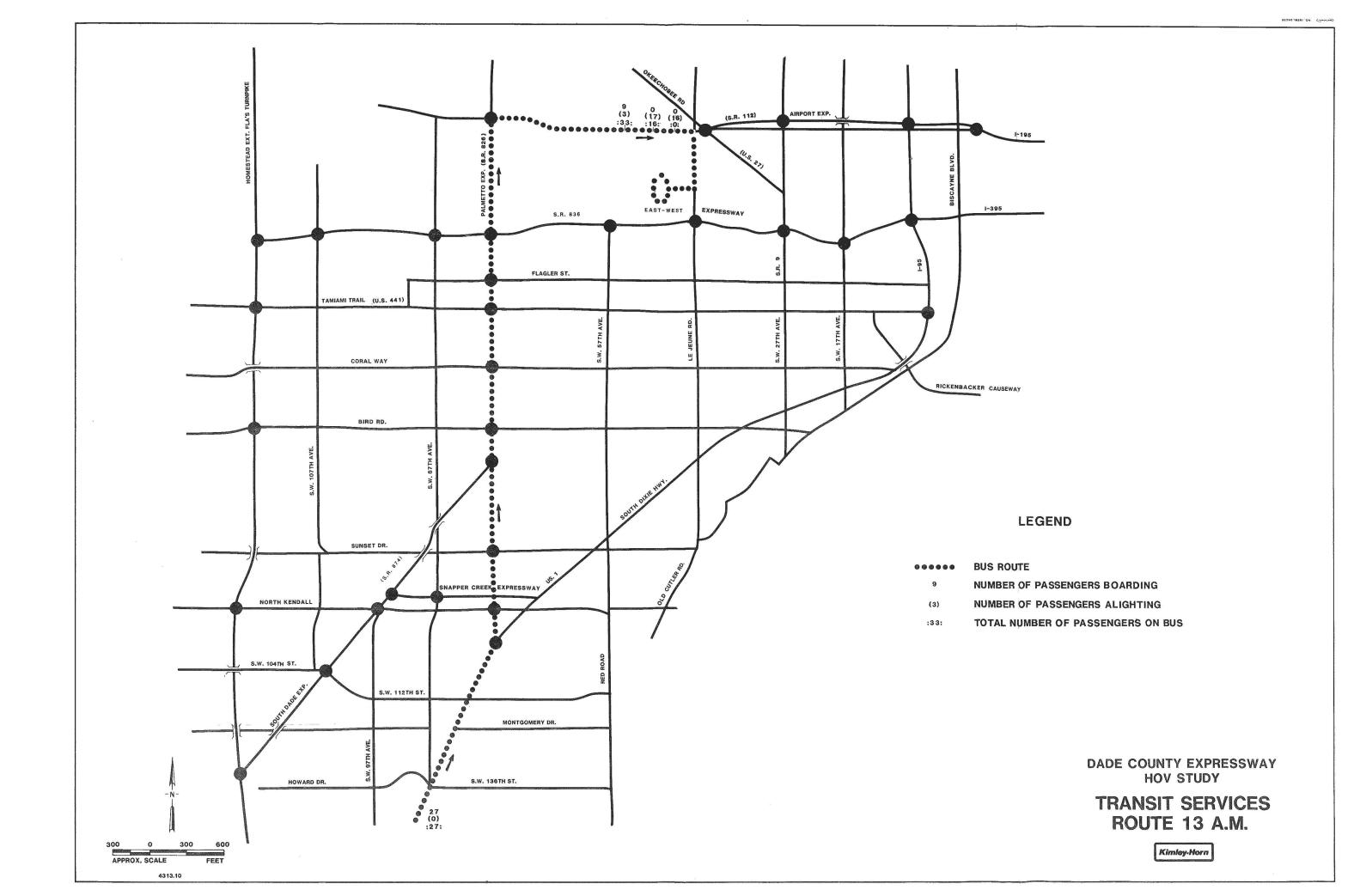


METROBUS/

Route 13 Airport Express



					NORTH	HBOUNI	D)			D.C.	Weekd	day				PAGE: DATE:	24M/	1 AR85			:====		=
						3 CUTL				RPORT' X		====:				TIME:		7 AM	===	====	:====		=
RUN NO.				GAR-OUT FR-LINE CW-5:32 CW-6:37	SDAD GVCT	PER-	SODR	AIRL	_ 11	NTL FR-	-LINE		TIME	P·L-(E TII	0				-				
3										CHANGE					TRIP	ENDS			===				=
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						- 13-) HBOUNI				D.C.	.T.A. Weeko		TARY	enne store spats than		PAGE: DATE:							-==
	======	=====	====:		RT.1	3 CUTI	LER R	IDGE	AII	RPORT X	(PREZ					TIME:	3:4	0 PM	 ===	====	====		
RUN. NO.	BLOCK NO.	NOTE		GAR-OUT FR-LINE									TRIF TIME				3* 3*			- 2 7.2 2	~ =(1)	* g	
9	62 62		##	CW-3:15						:25 :20*CW-	-6:45		45 75		2							* 6 *	
* 1 org 1/1. or		-				()	O	PERAT	:==. ГОR ===	CHANGE	:===- :S === .		*		TRIP	ENDS						:== <u></u>	=:
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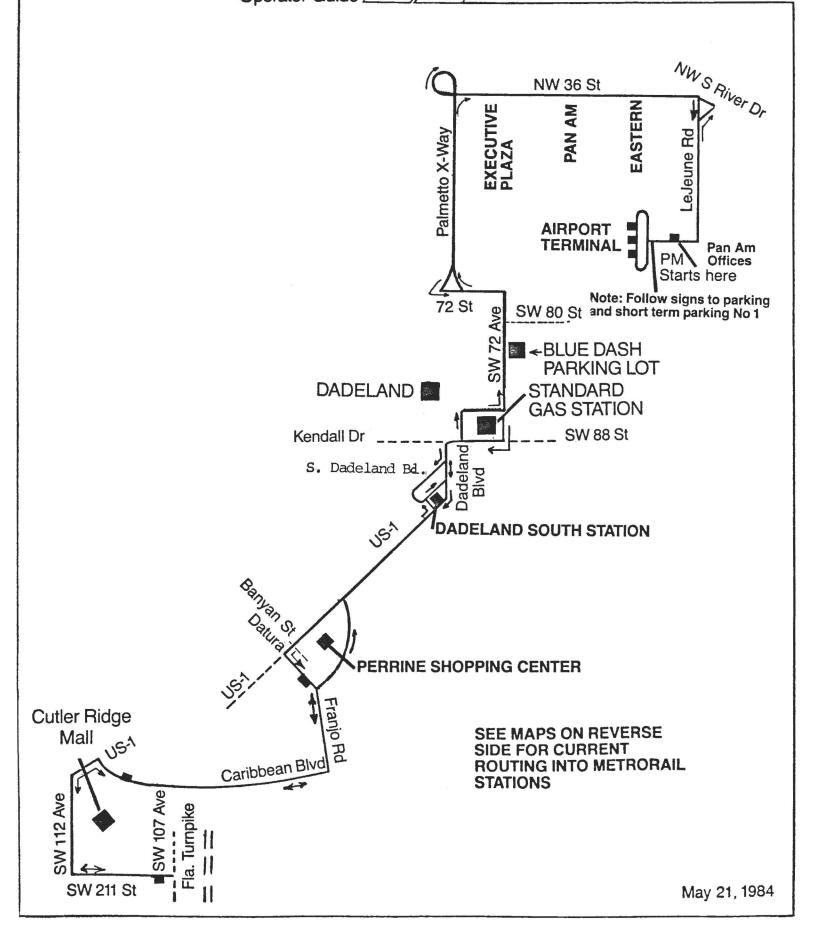
Kiml	ley-Horn

PROJECT HOV				SHEET NO	
		TRANSIT	PASSENGER	COUNT	
	0. JEN. 5:35 6:45 CLEAR	- AM - AM		ROUTE BUS NO. NO. OF SENTS SHEET NO. DATE	
REMARKS:				DAY	THURS.

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LOCATION		ME			OF PA:			1 PAR 172	
	ARV	LVG	ARV	OFF	ON	LVG	DEF	94	
CORAL WAY		5:35	0	0	0	0		5	
SDAO GYCT	5:50	5:50	5	0	4	9			
PERRINE	5:59	6:00	9	0	15	24		3	6
36 ST SODR	6:35	6:36	27	3	9	33	17		
AL 3	6:42	6:45	16	16	0	0			
EAST AIRL TO POUTE 48 B	31/5	BROKE	DO	WM	ENR	OUT	E: C	ANCE	LED
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METROBUS/
Operator Guide

Route 41 Airport Express



	41 41-XPREZ NORTHBOUND	D.C.T.A. ROTARY Weekday	PAGE: DATE:	1 24MAR85
22 2222222222222222222222222222222222	RT.41 CUTLER RIDGE -	- AIRPORT	TIME:	5:33 AM
RUN. BLOCK NOTE D-H GAR-OUT NO. NO. FR-LINE	SODA CTLR PER- DADL GVCT RIDG RINE SOUT	PARK EAST PAN- MIAM GAR-IN LOT AIRL AMER INTL FR-LINE	D-H TRI	
X 57 57 # CW-5:05	5:30 5:35 5:47 5:58	6:00 6:17 6:22 6:23*T045	;# 5	3
	() OPERATO	OR CHANGES * TRI	P ENDS	

41 -- 41-XPREZ D.C.T.A. ROTARY PAGE: Weekday DATE: 24MARS5

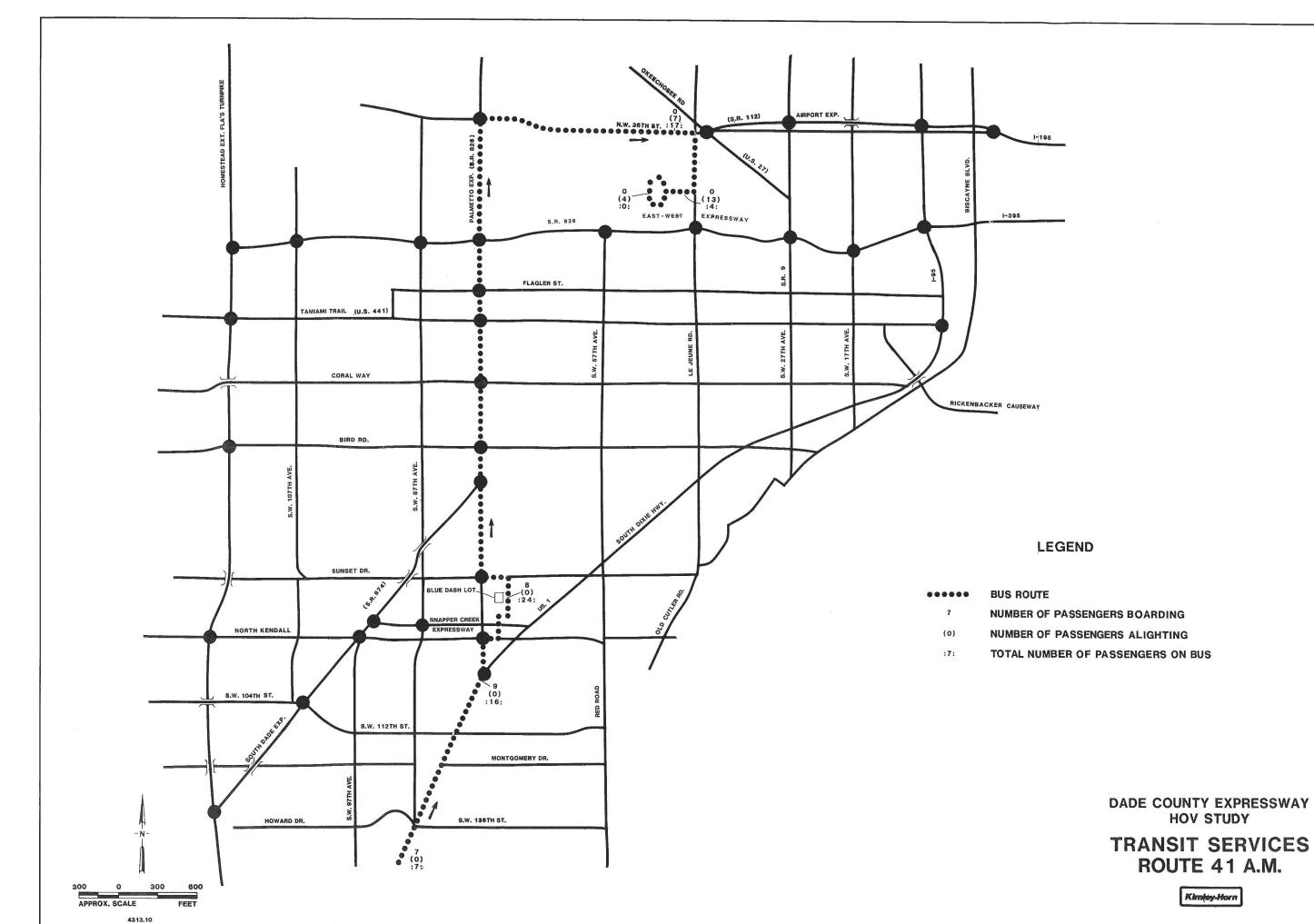
RT.41 CUTLER RIDGE - AIRPORT TIME: 3:17 PM

RUN. BLOCK NOTE D-H GAR-OUT PAN- MIAM EAST PARK DADL SHOT CTLR SODA GAR-IN D-H TRIP L-O NO. NO. FR-LINE AMER INTL AIRL LOT SOUT PERR RIDG GVCT FR-LINE TIME TIME

X 68 CW-3:00 3:17 3:20 3:35 4:00 4:04 4:26 4:36 4:41*CW-5:06 #

SOUTHBOUND

PPURE 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 * -- TRIP ENDS () -- OPERATOR CHANGES



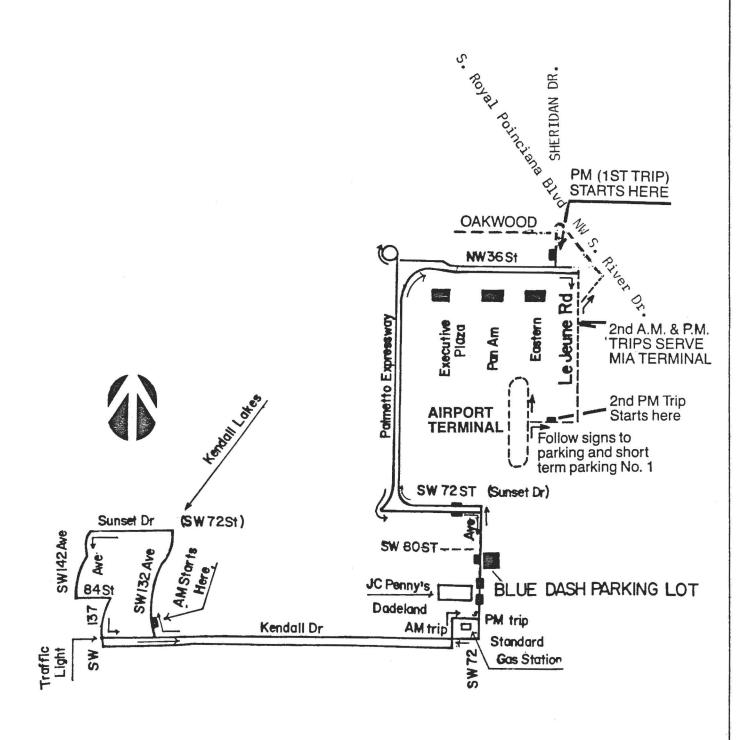
(Kimley-Horn

PROJECT HOV	MIAMI	(4313.10))	SHEET NO	OF
CALC. BYDA	TE	CHECKED BY	DATE	REVISED BY	DATE
		TRANSIT	PASSENGER	COUNT	
NAME TIME ON TIME OFF WEATHER	TO ROU	AM 75 45		ROUTE BUS NO. NO. OF SEATS SHEET NO.	
REMARKS:				DATE	<u>5 2 85</u> _THURS

LOCATION	TIA	1E		NO.	OF PAS	SENGE	RS	
2007/10/4	ARV	LVG	ARV	OFF	ON	LVG	PETWEEN	PAINTS
CORAL WAY 72nd AVE		5:15	0	0	0	0		
SODA GUCT	5:30	5:32	0	0	0	0		
CTLR RIDG	5:35	5:35	0	0	2	2		
PERRINE	5:47	5:47	2	0	5	7		
DADL SOUT	5:59	5:59	7	0	9	16		
PARK LOT	6:00	6:00	16	0	8	24		
EAST AIRL	6:17	6:17	24	7	0	17		
PAN AMER	6:21	6:21	17	/3	0	4		
MIAM INTL	6:23	6:23	4	4	0	0		
TO POUTE 45								
				L	ll	*		

VETROBUS/ Operator Guide

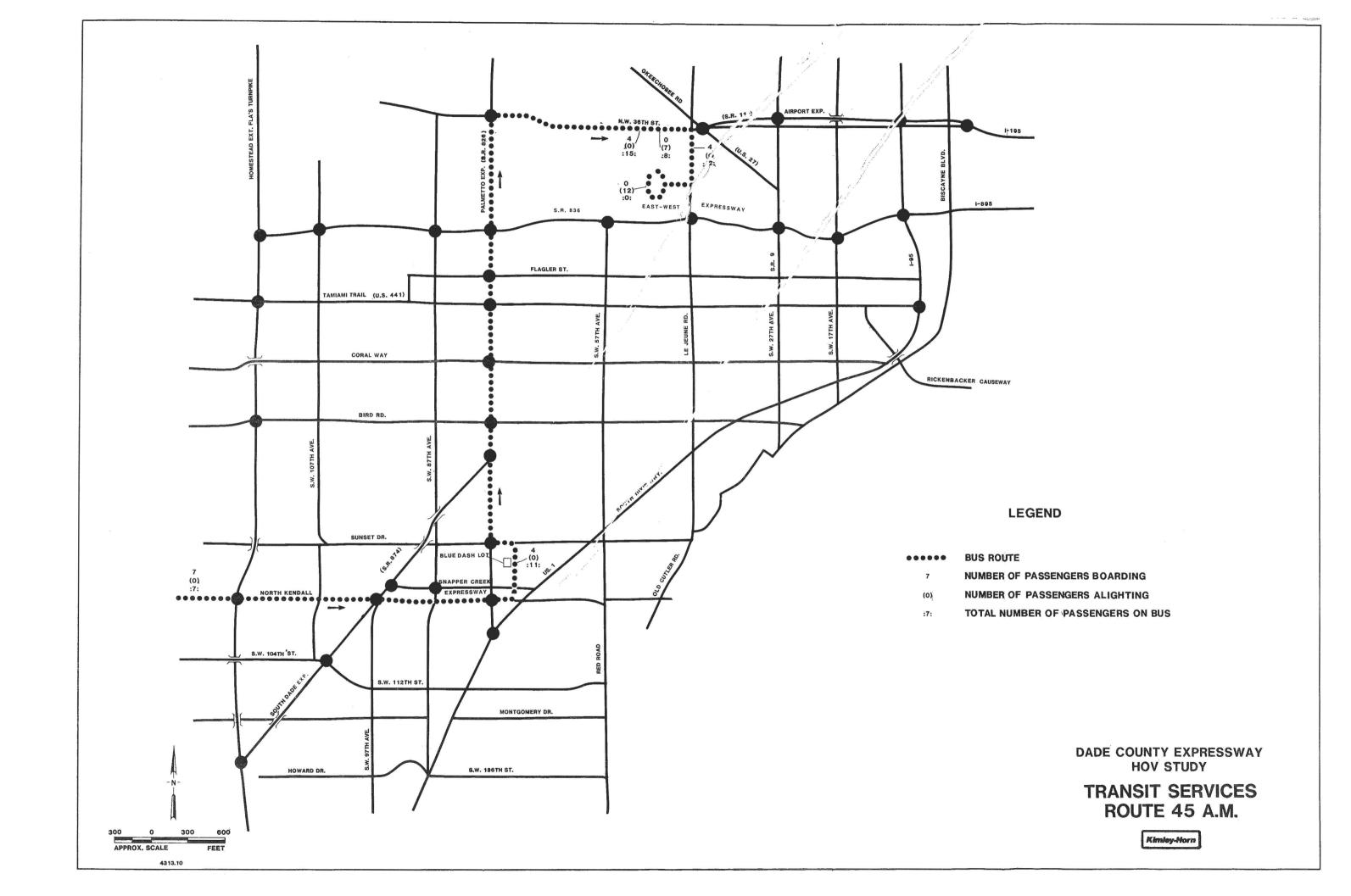
Route 45 Airport Express



45 -- 45-XPREZ D.C.T.A. ROTARY PAGE: DATE: 24MAR85 Weekday NORTHBOUND TIME: 5:53 AM RT.45 KNDL LAKES-AIRPORT RUN. BLOCK NOTE D-H GAR-OUT 132A 142A PARK 36ST 36ST MIAM CENT GAR-IN D-H TRIP L-O FR-LINE 88ST 72ST LOT SODR LEED INTL GARG FR-LINE TIME TIME NO. NO. # C.-5:18 5:53 5:58 6:18 6:35 6:37* 15 # FR---41 6:53 6:58 7:18 7:38 7:40 7:50 8:00*CW-8:25 ## () -- OPERATOR CHANGES # -- TRIP ENDS MAL-- AT 750A FROM M.I.A.T. RUN EXPRESS TO CENTRAL GARAGE REPORT TO DISPATCHER AND PICK UP ALL MAIL FOR CORAL DIV. LEAVE CENTRAL GARAGE AT 805AM. 45 -- 45-XPREZ D.C.T.A. ROTARY FAGE:

SOUTHBOUND Weekday DATE: RT.45 KNDL LAKES-AIRPORT TIME: 3:40 PM RUN. BLOCK NOTE D-H GAR-OUT CENT MIAM 36ST 36ST PARK 142A 137A GAR-IN D-H TRIP L-O NO. NO. FR-LINE GARG INTL LEED SODR LOT 72ST SSST FR-LINE TIME TIME 61 0.-3:20 61 3:40 3:42 4:07 4:27 4:32*C.-5:07 # 82 6.7 CW-4:20 4:45 5:05 5:15 5:17 5:42 6:02 6:07*CW-6:28 # () -- OPERATOR CHANGES * -- TRIP ENDS

MLR-- ARRIVE AT CENTRAL GARAGE AT 440PM REPORT TO DISPATCH AND PICK UP ALL MAIL FOR CORAL WAY DIVISION- LEAVE CENTRAL DIVISION AT 445PM



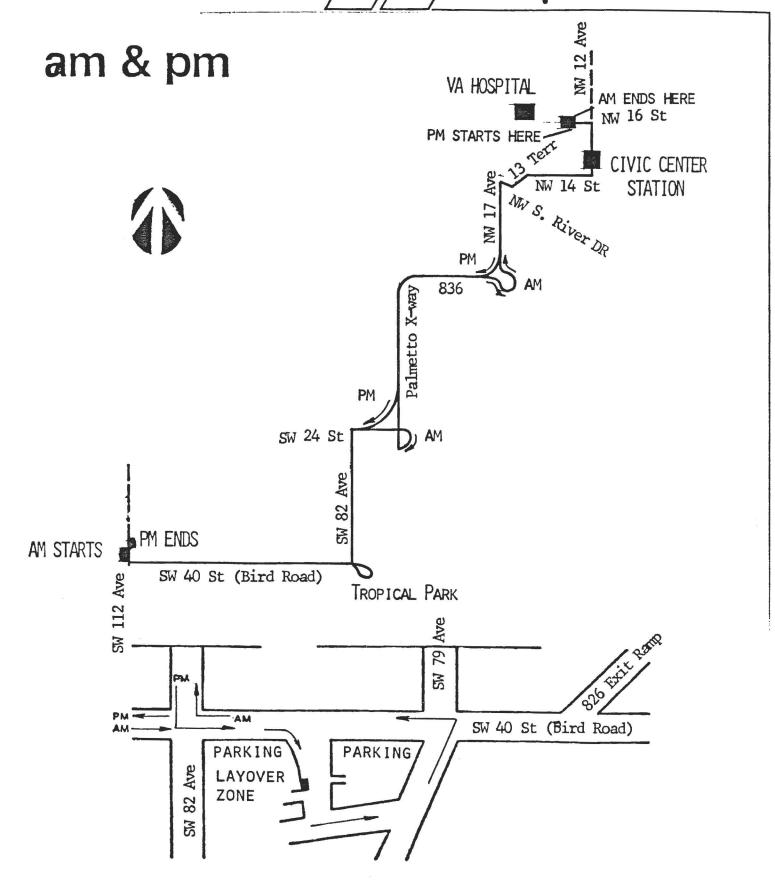
(Kimley-Horn (

OJECT HOV MIAMI (4313.10) CALC. BY DATE CHECKED BY_		SHEET NO	· · · · · · · · · · · · · · · · · · ·
TRANSIT	PASSENGER C	COUNT	
NAME JIM MATHIS TIME ON 6:50 AM TIME OFF 8:30 AM		ROUTE BUS NO. NO.OF SEATS	ALLPORT EXPRE
WEATHER <u>CLEAR</u>		SHEET NO.	1 OF 1
REMARKS:		DATE DAY	5 <u> 2 85</u> THURS

<u> </u>		45			- 5 22		-05	
LOCATION	ARV	LVG	ARV	NO. C	ON PAS	SENGE LVG	KS EFTWEEN	FOUNTS
FROM ROUTE 41	ANV	2.707		011		7.0	Ort	94.
132 A \$ 88 ST	6:50	6:54	0	0	0	0		
		6:58		0	2	2		5
PARK LOT	7:18	7:18	7	0	4	11		
36 07 & SOUTH DR	7:38	7:33	//	0	4	15	:	
36 ST & LEE DR	7:40	7:40	15	7	0	8		4
MIAM INT	7:50	7:50	12	12	0	0	į !	
CENT GARG	8:02	8:03	0	0	0	0	1	
CORAL WAY								
,							1	
						>		

METROBUS/

Route 46 Express



NORTHBOUND	D.C.T.A. ROTARY Weekday	PAGE: 1 DATE: 24MAR85
RT.46 CONCORD SH.CT.CIV	IC CTR	TIME: 6:55 AM
112A TROP 12AV GAR-IN	TIME TIME	
() OPERATOR C	HANGES * TRIF	

46 -- 46-XPREZ D.C.T.A. ROTARY PAGE: 2
SOUTHBOUND Weekday DATE: 24MAR85

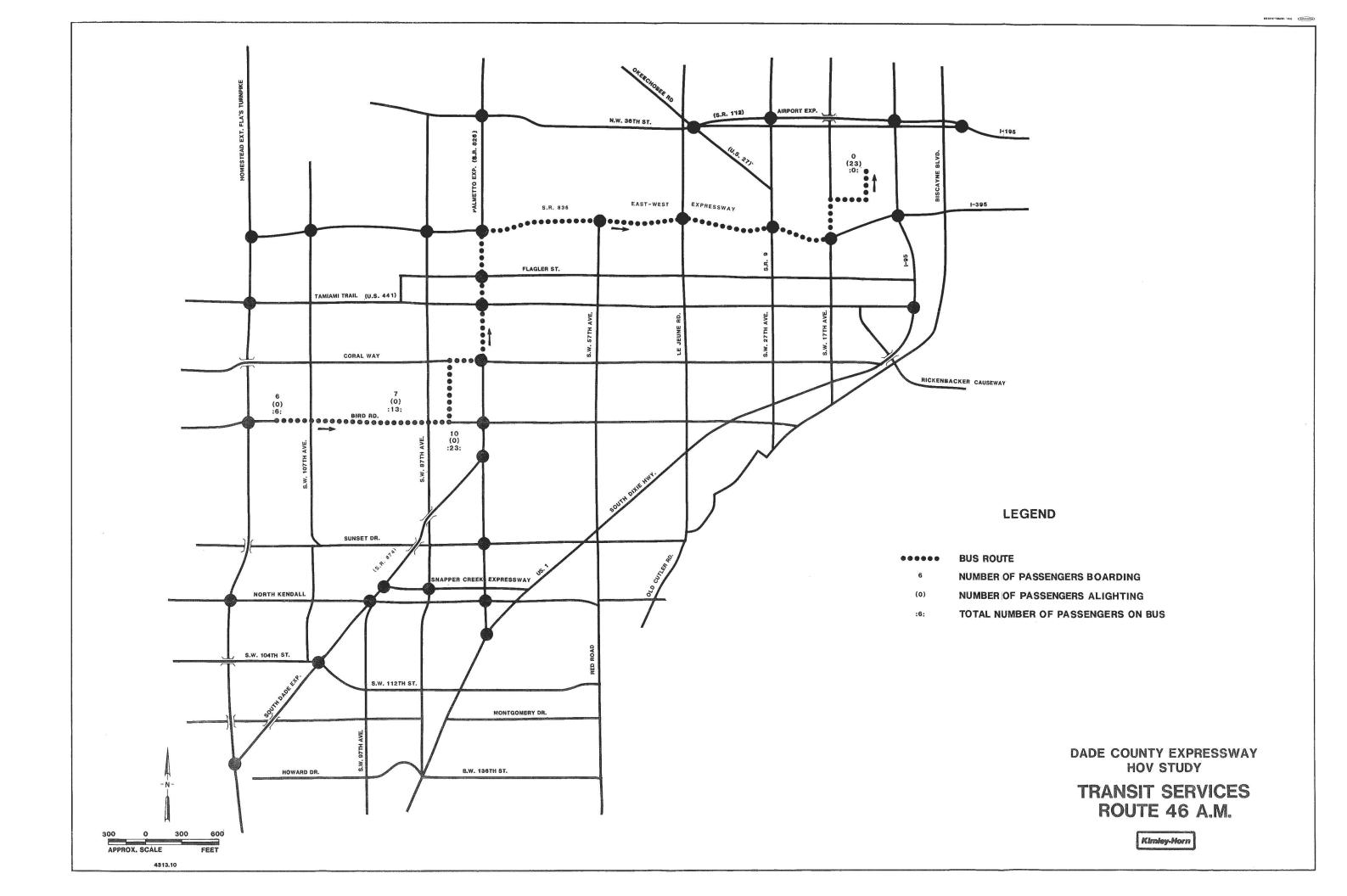
RT.46 CONCORD SH.CT.CIVIC CTR TIME: 5:15 PM

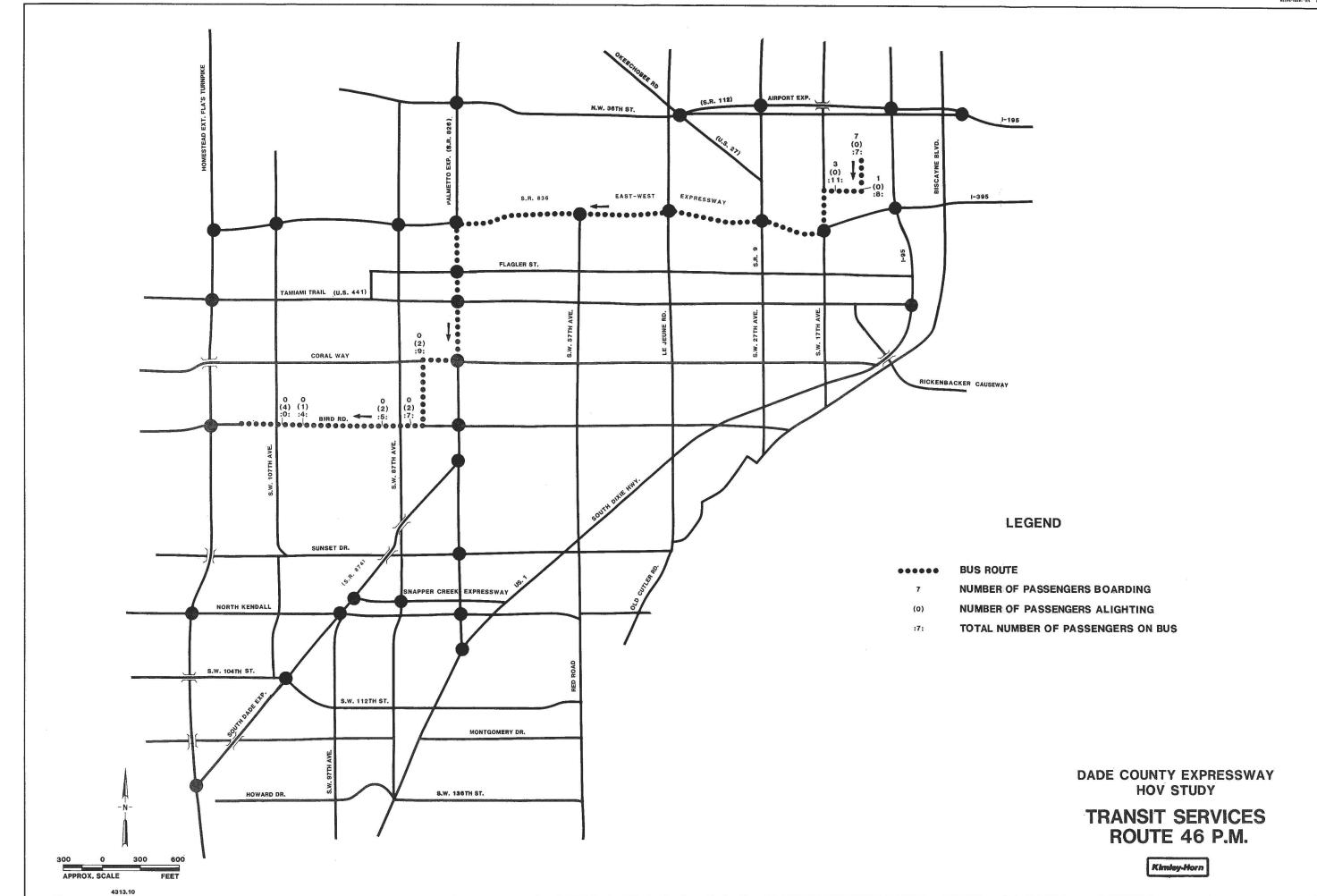
RUN. BLOCK NOTE D-H GAR-OUT 12AV TROP 112A GAR-IN D-H TRIP L-O NO. NO. FR-LINE 16ST ICAL BIRD FR-LINE TIME TIME

AL '. AL VODET

X 46 60 # FR==47.5:15 5:50 6:05*C.-6:40 # 50

() -- OPERATOR CHANGES # -- TRIP ENDS





(Kimley-Horn (

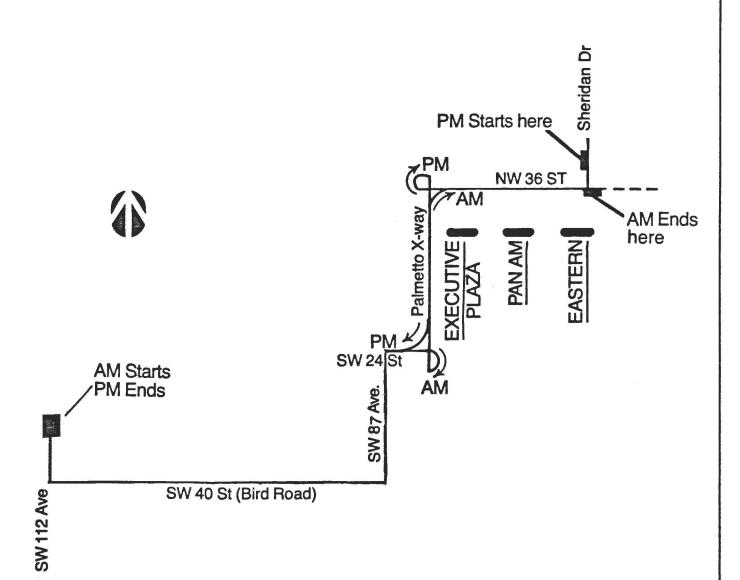
DJECT HOV	MIAMI (4313.10))	SHEET NO	OF
CALC. BYDAT	E CHECKED BY	DATE	REVISED BY	DATE
	TRANSIT	PASSENGER	COUNT	
NAME	CARL MORRISON		ROUTE	EXPRESS
TIME ON	6:32 AM		BUS NO.	51
TIME OFF .	8:23 AM		NO, OF SEATS	
WEATHER .	CLEAR & DRY		SHEET NO.	lof 1
REMARKS:			DATE	5/2/85
1,07. (/ 1,000			DAY	THURS

	TI	NE	NO. OF PI			55511.5	-65	
LOCATION	ARV		ARV	OFF.	ON	LVG	TETTOTER	F6/7375
0.00 01 1.101		6:37		0	0	0	1	- 67
CORAL WAY	 	6.01		0				
112 A & BIRD	6:53	6:55	0	0	6	6		7
TROPICAL	7:06	7:10	13	0	10	23		
1211 \$ 16 ST	1	7:40		23	0	0		
CORAL WAY	8:23	1					1	
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P:-1. (TRIPS) PM.									
NE-2-71E+5T					-		Same of the		,
E. FLAGLER STAYAVA	1						•		
We Fleagher ST. + (DAJE CO-MTY)									
N.W. 2 AVE & S.ST.									
11:11 7 AVE + 8 ST. Rd.			,						
11 17 12 AVE + 125T-OVER PASS									
11 11 16 ST. + V. A-/HUSPITAL + -	1715		1711			7	7		1
1, 1, 14 AVE. + 13 TERR.		1714		8		3	11		
N.W. 17 AVE. + 834 EXPWY.		1713		11			_//		
5.W. 24 ST + 82 AVE.		1774			1		9		
S. W. 40 ST (TROPICAL PARK) AVE+	1750	1) F	1156		No.	r 6-0	_//V	HER	Ē
111 11 11 + 87 AVE		1750		9	2		7	7	
11111 + 97 Ave.		1753		5			<u>.</u>		
		1757		4-			4		
SW 405T + 112 AVE SHIP ETR) EUL 1805	-	1754		4	4				-2-
REMARKS:									
1) There is pean chair	6	51 1	r fi	or 1:	17	MC	10	SF 7	7-6
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METROBUS/
Operator Guide

Route 47 Express am&pm



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					RT.47	CONC	CORD :	SH.CT	- AIR	PORT					TIME:	6:08	AM S		
	======	====:	====			4 (mit dink mite som en				=====	2 22 22 E	: =			. 	====	==='===	====	====
RUN. NO.	BLOCK NO.	NOTE	D-H	GAR-DUT FR-LINE	CON- CORD	87AV, 403T	36ST SODR	EAST RNAL	GAR-I FR-LI	NE D-1	TRI TIM	P L-O	E						
13	13		.#	C:-5:28	6:08	6:23	6:43	6:45	*TO	50 #	3	7 🎉 2	5 ====				====:		
						()	CI	PERAT	OR CHA	NGES		*		TRIP	ENDS				
						- 47- BOUND				.C.T. We			′		PAGE: DATE:	24M	2 IAR85		
====			State auto- ethip finis path with ethip path		RT. 47	Z CON	==== CORD	===== SH.CT	- AIF	PORT	degree were name out-of-the		====	====	TIME:	===== 3:4	0 PM	=====	

FR-LINE SHER SODR 40ST CORD FR-LINE TIME TIME

() -- OPERATOR CHANGES

47 -- 47-XPREZ D.C.T.A. ROTARY

Weekday

38 32

* -- TRIP ENDS

EASTBOUND

RUN. BLOCK NOTE D-H GAR-OUT 36ST 36ST 87AV CON- GAR-IN D-H TRIP L-O

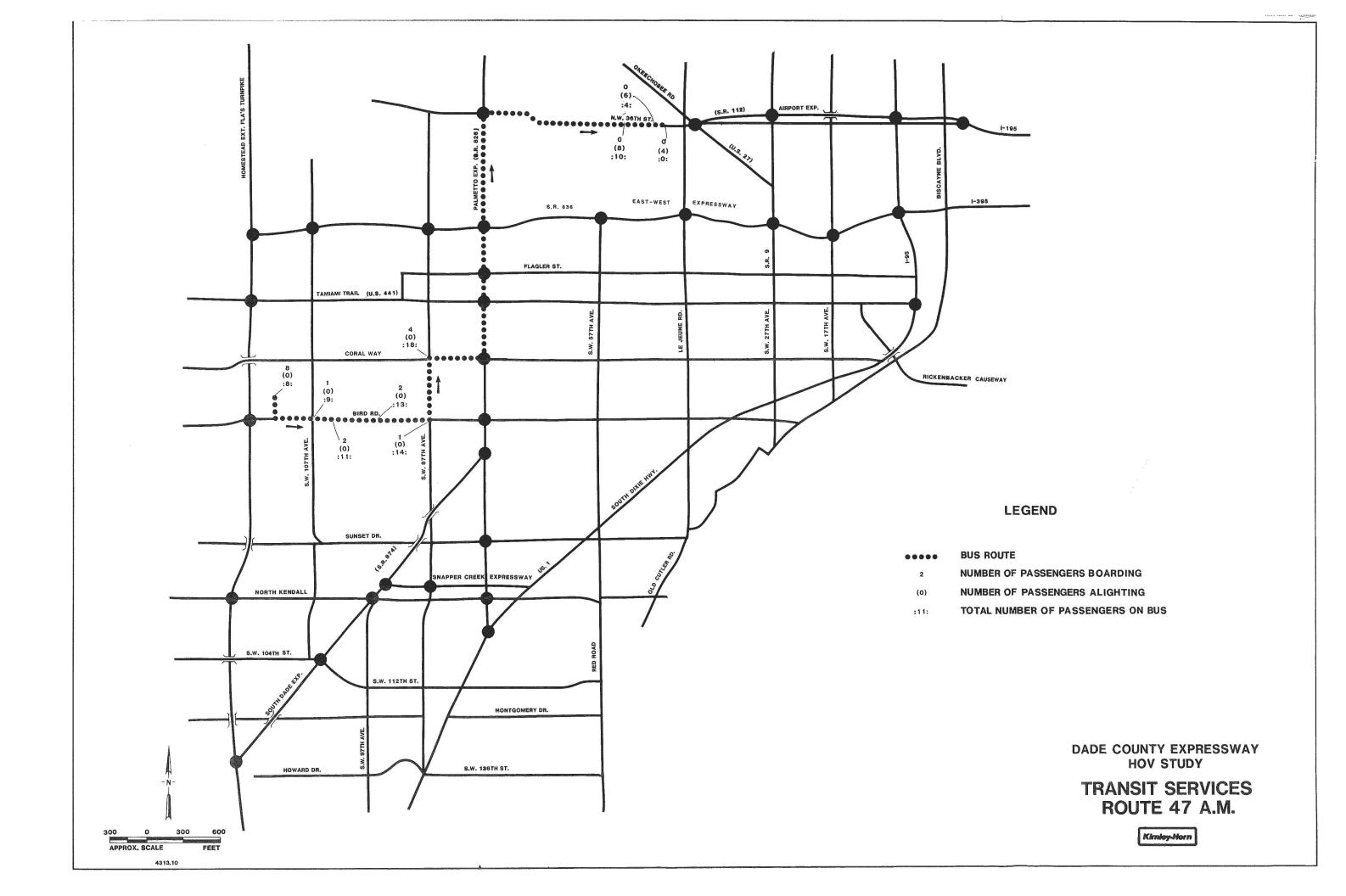
C.-3:20 3:40 3:43 4:03 4:18*T0---46

NO. NO.

60

PAGE:

DATE: 24MARS5



(Kimley-Korn (

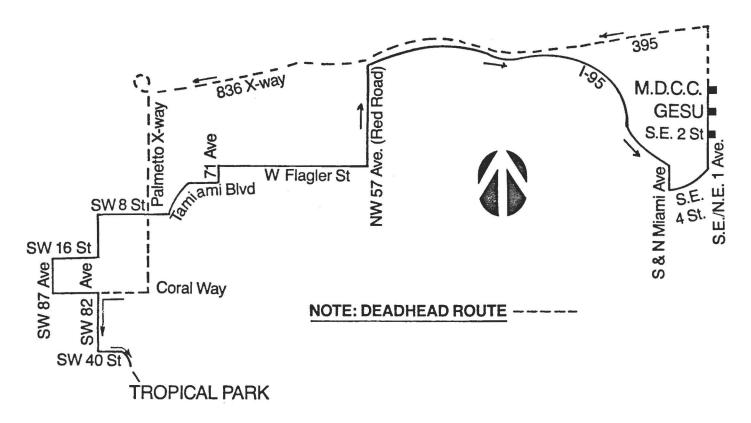
DJECT HOV	MIAM	(4313.10))	SHEET NO	OF
CALC. BY DA	TE	CHECKED BY	DATE	REVISED BY	_ DATE
		TRANSIT	PASSENGER	COUNT	
NAME	MIKE	HORA/		ROUTE	47 EXPRESS
, .				BUS NO.	12
TIME OFF	6:2	8 MAN		NO, OF SEATS	47
WEATHER	CLEAR	& DRY		SHEET NO.	1 OF 1
REMARKS:	<u> </u>			DATE	4/2/85
,				DAY	THURS

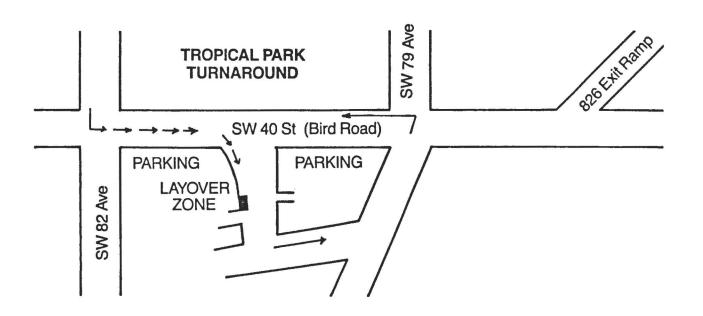
	NO. OF PASSENGERS							
LOCATION	TIME							
	ARV	LVG	ARV	OFF	ON	LVG	PEINFEN	P6/275
CENTRAL DISPATCH		5:31	0	0	0	0		
CENTRAL DISPATCH BIRD RO & SW 11244 AVE SHOPPING CENTER	6:08	6:08	0	0	8	8		
BIRD RD & SW 107 AVE	1	6:12	8	0	/	9		
BIRO RO & SW 102 AVE	6:15	6:15	9	0	2	11		
BIRO RO & SW 92 AVE			_//	0	2	13	ī	
BIRD R.O & SW 87 PL				0	/	14		
87+4 AVE & 24+4 ST	1			0	4	18	!	
36th ST & EAST DR.				8	0	10		
36th ST & LEE DR.				6	0	4		
36# ST & SHERIDAN DR.	1	1 1		4	0	0		

METROBUS Operator Guide

Route 48 Express

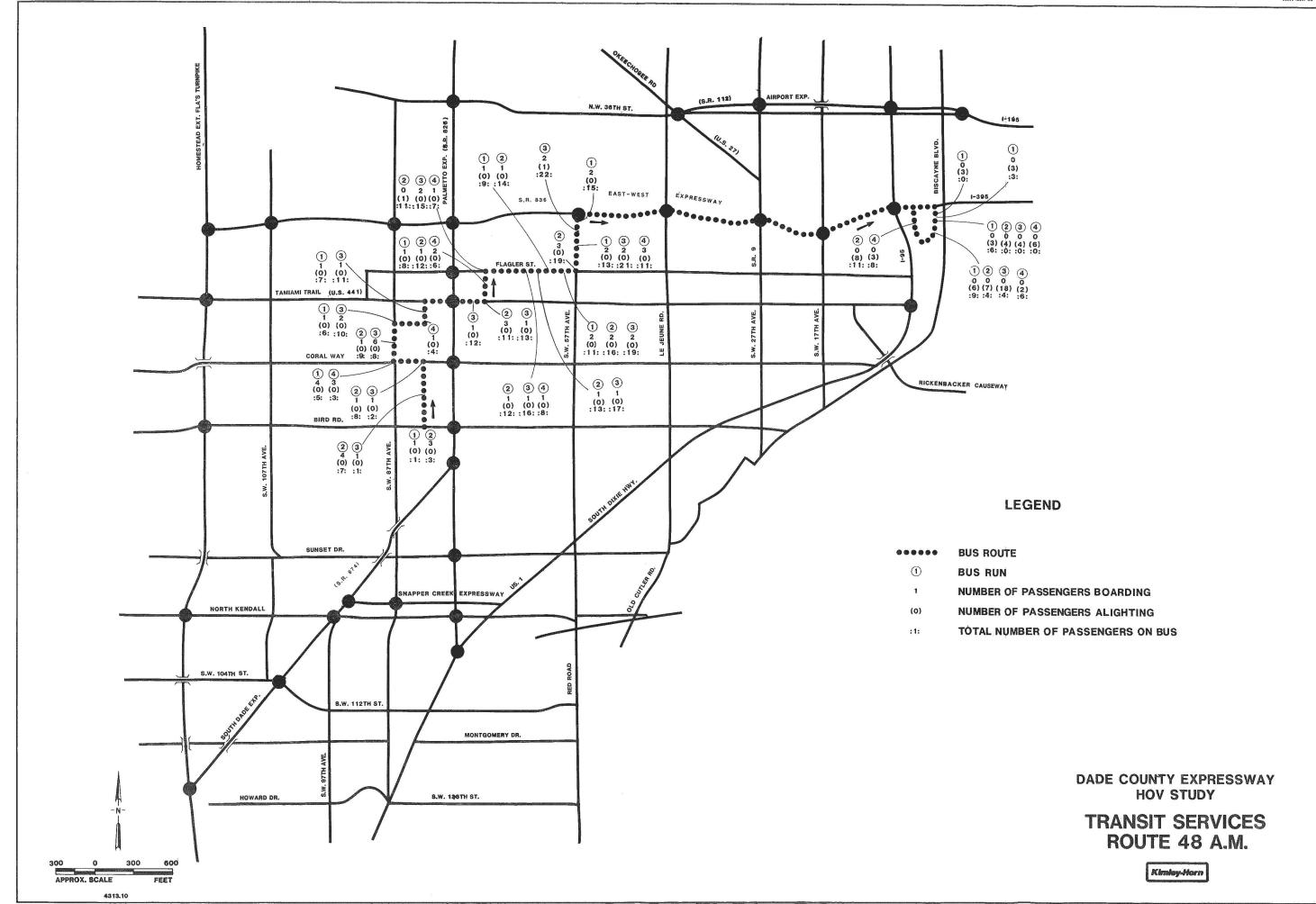
AM





	48 48-XPREZ EASTBOUND	D.C.T.A. ROTARY Weekday	PAGE: 1 DATE: 24MAR85
	RT.48 TROPICAL - C.B.D.		TIME: 6:35 AM
	<u> </u>	# = 0 0 2 2 3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5	; mais que fans deus gent gent mars auf fans mar ean dan mas east mat dan fans dan san dan dan dan dan dan dan
NO. NO. FR-LINE	TROP FLAG 1AVE GAR-IN ICAL 57AV NE4S FR-LINE	TIME TIME	
X 54 54 # CW-6:25 X 51 51 # FR13	6:35:6:50:7:15*T050 7:05:7:20:7:45*CW-8:05 3:7:35:7:50:8:15*CW-8:35	# 40 15 # 40 40 40 40 40 40 40 40 40 40 40 40 40	
X 58 58 #/ FR-138 X 59 59 # FR-35/70	3.7:35,7:50,8:15*CW-8:35 3.8:05 8:20 8:45*CW-9:05		
	() OPERATOR C		IP ENDS

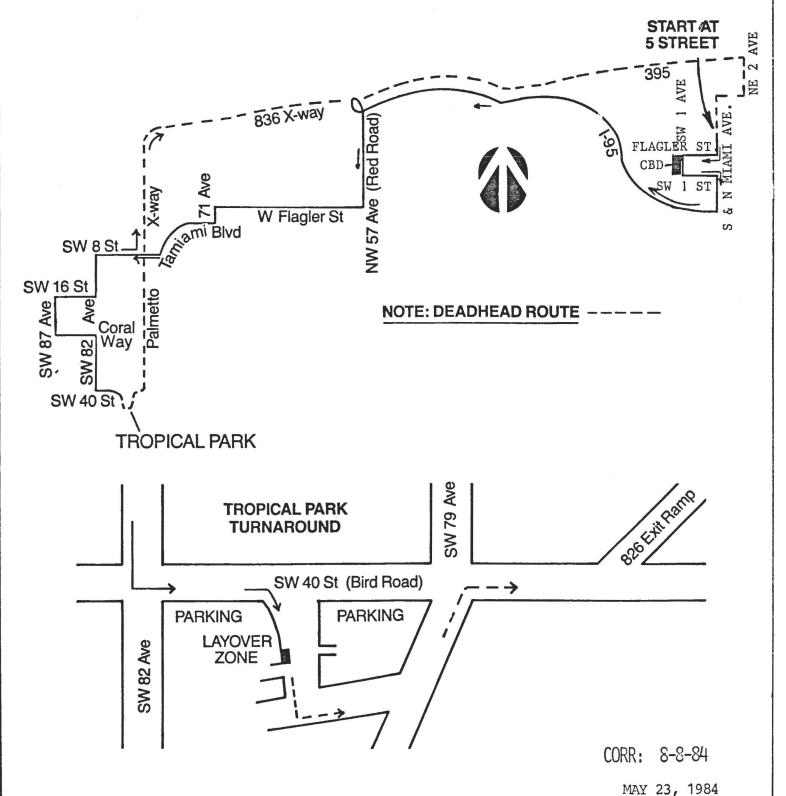
	48 48-XPREZ D.C.T.A. ROTARY WESTBOUND Weekday	PAGE: 2 DATE: 24MAR85
jian alis one sine suu dan miji igu dan one dha puu dhii dan yuu ann giin dini dan dhi; dhii dhii dhii dhii anji ami jian jiin	RT.48 TROPICAL - C.B.D.	TIME: 4:13 PM
# # J J D D P # H # # E B # # # E # # # # # # # #	9×5°C	
	MIAV CORT FLAG TROP GAR-IN D-H TRIP L-O NSST HOUS 57AV ICAL FR-LINE TIME TIME	
X 63 63 # JFR50	3 4:13, 4:15, 4:35, 4:50*T0138 # 37 38 3 4:43, 4:45, 5:05, 5:20*CW-5:30 # 37 5:13, 5:15, 5:35, 5:50*CW-6:00 # 37 5:43, 5:45, 6:05, 6:20*CW-6:30 # 37	=======================================
-	() OPERATOR CHANGES # TRI	P ENDS

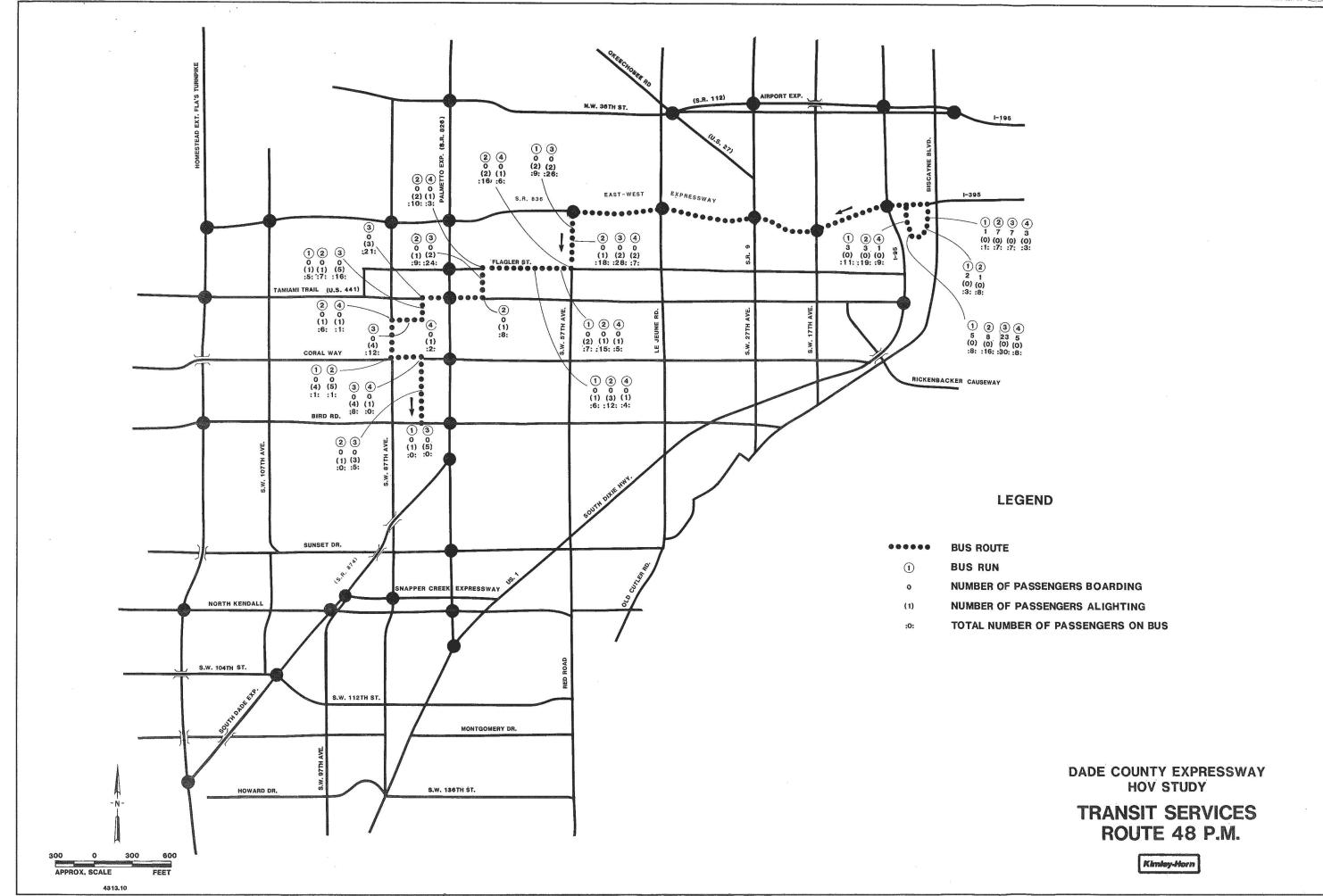


METROBUS/Operator Guide

Route 48 Express

PM





. $\neq PM$. MET	RO-DADE-TRANSPORTATION ADMINISTRATION UNSIT PASSENGER COUNT
OTE 48-	LUCY AYER
1 NO. 643	
ETER NO. 273	
). OF SEATS	SHEET NO.
NAME ED MARINE	DATE 5 8/85 DAY Will WEATHER Clean
TIME ON 635 AM	

			IN	ou	T	(N.	S. E.	W.)		
LOCATION	SCI	HED.	ACTU. TIM		NO	OF PASSENGERS			BETWEEN POINTS	
AM. TRIPS AM	ARV.	LVG.	I	LVG.	ARV.	OFF	ON	LVG.		ON
S.W. 40 ST. ATROPICAL PARK) Arc. +				635)		
S.W. 40 ST + 82 AVE.				638				1.		
S.W. 82 AVE + 24 St GWAY				641	0			1		
S.W. 29 ST GWAY + 87 AVE				643	/		4/	5		
11 87 AVE + 16 ST.				644	5		1	6		
11 16 ST + 82 AVC.				645	6			6		,
11 82 AVE + 85t,				647	7			7		
S.W. & St. & TAMMIAMIBLUL.				649	7			7		1
S.W. 71 AVE & FLAGLER ST.				650	8			8		
11 FLAGLER ST. 67 AVC				653	8			8		
11 11 62 CT.				654	8		1	9		2
11 11 11 57 AVE *				656	11) /		2
M.W. 57 AVE + (836 EXPWY)				700	13		2	15		
MIAMI AVE. + Se, 4 ST.										
S.E. LAVE + 1 ST.				7"	15	4		9	3	
N.E) AVE + 2 ST Gesu/chiach				113	6	3		3		
N.E. I AVE. + 45t. (M.D.C.C.) Ed +				714	C)			0		

n. + PM	METRO-DADE TRANSPORTATION ADMINISTRATION (\NSIT PASSENGER COUNT	1
OUTE 48-	(WSTT TASSENDER GOOM	\.,
3U NO. 6/2		
1ETER NO. 5/		
NO. OF SEATS		SHEET NO.
NAME ED MARINE	DATE 5/9/85 DAY thus	WEATHER Clear
	TIME OFF 7 1/7 was.	
	INOUT	(N. S. E. W.)

				-				•		
	2001 0000	HED.	ACTU						. 100,000,000,000	WEEN
LOCATION	T11		TIM			OF PAS				INTS
AM. TRIPS AM	ARV.	LVG.	ARV.	LVG.	ARV.	OFF	ON	LVG.	OFF	ON
S.W. 40 ST. ATROPICAL PARKTAGE. +				705		0		0		
5 W 40 ST + 82 AVE,				708	3		3.			
S.W. 82 AVE + 24 ST GWAY				711	7		1	8		
S.W. 24 ST C/WAY + 87 AVC				713	8			8		
11 87 AVE + 16 ST.				716	9			9		
11 16 ST + 82 AVC.				717	9			9		
11 82 AVE + 85t,				719	9			9		
5. 8 ST. & TAMMINMI BLUL.				721	9		3	11		1
S.W. 71 AVE & FLAGLER ST.				724	12	1		11	·	
11 FLAGLER ST. 67 AVC				726	12		1	12		/
11 11 11 62 CT,				728	13		1	14		2
11 11 11 57 AVE *				731	16		3	19		
MW, 57 AVE + (834 EXPWY)				733	19			19		
MIAMI AVE, + Se, 4 St.				743	19	8		1/		
S.E. LAVE + 1 ST.				746	11	7		4		
N.E I AVE + 2 ST Gesu/church				747	4	4		0		
N.E. I AVE, + 4St. (M.D.C.C.) Ed +				748	0	0		0		
		1				1				

(Kimley-Horn (

PROJECT HOW)	SHEET NO	
CALC. BY DA	(TE	CHECKED BY	DATE	REVISED BY	_ DATE
		TRANSIT	PASSENGER	COUNT	
					48
NAME	DEBBIE	CALEVICH		ROUTE	EXPRESS
TIME ON	7:35	ANI		BUS NO.	
TIME OFF	8:40	And		NO, OF SEATS	44
WEATHER	CLEAR	+ DRY		SHEET NO.	1 OF 1
REMARKS:	<u>.</u>	/		DATE	5/9/85
() ()	•			DAY	THURS

DIRD RO TROPHAL PARK 7:35 7:37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DET WEST POSTS
SUI BR = 1 SW 32 ST	
SW 97. \$ SU 35 ST 7:39 7:39 1 0 0 1 SU) 82 \$ SW 31 ST 7:40 7:40 1 0 0 1 SW) 82 \$ SW 28 ST 7:40 7:40 1 0 0 1 SW) 82 \$ SW 24 ST 7:41 7:41 1 0 1 2 SW) 24 ST \$ 87 AVE 7:43 7:43 Z 0 0 2 $\begin{pmatrix} 87 & 4VE \\ 64 & LOWAY \end{pmatrix} = 22^{-10} & ST 7:46 7:46 2 0 6 8 87 AVE $ 16^{+4} ST 7:45 7:45 8 0 Z 10 SW 16 $ SW 82 AVE 7:46 7:46 10 0 0 -10 SW 82 $ SW 44^{+1} ST 7:47 7:47 10 0 1 11 TAMIAMI $ SW 6 ST 7:51 7:51 11 0 1 12$	
SU) 82 $\frac{1}{3}$	
SW 32 \$ SW 28 ST 7:40 7:40 / 0 0 / 5W 32 \$ SW 24 ST 7:41 7:41 / 0 / 2 SW 24 ST \$ 87 AVE 7:43 7:43 Z 0 0 2 (87 AVE) \$ 22 ad ST 7:44 7:44 Z 0 6 8 8 ALLOWAY \$ 22 ad ST 7:45 7:45 8 0 Z 10 SW 16 \$ SW 82 AVE 7:46 7:46 10 0 0 -10 SW 82 \$ SW 44 ST 7:47 7:47 10 0 / 1/ TAMIAMI \$ SW 6 ST 7:51 7:51 1/ 0 / 12	
SW $8z$ $$1 SW$ $24ST$ $7:41$ $7:41$ 1 0 1 2 $1 SW$ $24ST$ $$2 ST$ $$3 ZVE$ $7:43$ Z 0 0 2 $1 SW$ $1 ST$ $1 S$	
SW 24 ST \$ 87 AVE 7:43 7:43 Z 0 0 2 (87 AVE) \$ 22 ad ST 7:44 7:44 Z 0 6 8 8 ALLOWAY \$ 22 ad ST 7:45 7:45 8 0 Z 10 SW 16 \$ SW 82 AVE 7:46 7:46 10 0 0 -10 SW 82 \$ SW 14 ST 7:47 7:47 10 0 1 11 TAMIAMI \$ SW 6 ST 7:51 7:51 11 0 1 12	
6ALLOWAY \$ 22 ad ST 7:44 7:44 Z 0 6 8 87 AVE \$ 16 th ST 7:45 7:45 8 0 Z 10 SW 16 \$ SW 82 AVE 7:46 7:46 10 0 0 -10 SW 82 \$ SW 4 th ST 7:47 7:47 10 0 1 11 TAMIAMI \$ SW 6 ST 7:51 7:51 11 0 1 12	
GALLOWAY \$ 22 5T 7:44 7:44 2 0 6 8 87 AVE \$ 16 \pm ST 7:45 7:45 8 0 2 10 SW 16 \$ SW 82 AVE 7:46 7:46 10 0 0 -10 SW 82 \$ SW 4 \pm ST 7:47 7:47 10 0 1 11 TAMIAMI \$ SW 6 ST 7:51 7:51 11 0 1 12	
SW 16 \$ SW 82 AVE 7:46 7:46 10 0 0 -10 SW 82 \$ SW 14 ST 7:47 7:47 10 0 1 11 TAMIAMI \$ SW 6 ST 7:51 7:51 11 0 1 12	
SW 82 & SW 4 th ST 7:47 7:47 10 0 1 11 TAMIAMI & SW 6 ST 7:51 7:51 11 0 1 12	
TAMIAMI + SW 6 ST 7:51 7:51 11 0 1 12	
TAMIAMI & SW 7/ AVE 7:52 7:52 12 0 / 13	
W. FLAGLER & SW 7/ AVE 7:54 7:50 /3 0 2 15	
W. FLAGLER \$ 67 CT 7:56 7:56 15 0 / 16	
W. FLAGLER & NW64CT 7:58 7:58 16 0 1 17	
W. FLAGLER & NW GOCT 8:00 8:00 17 0 2 19	
NW 57 AVE & NW 4 ST 8:01 8:01 19 0 2 21	
RED RO & BLUE LAKOON 3:04 8:04 21 1 2 22	
NE 1 AVE & SE 1 ST 8:16 8:16 22 18 0 4	1
NEI AVE 3 NEZGT 8:19 3:19 4 4 0, 0	

4M. + PM. ROUTE 48-X 59 BUS NO. 53 METER NO. 548 NO. OF SEATS 47	METRO-I	E TRANSPORTATION ADMINISTRATE TRANSIT PASSENGER COUNT WILL 205 683 581	I DI L'O NHIUMONI
NAME (1) LINGS		E OFF 6 9:25 GAR,	WEATHER FERSE

IN____ OUT___ (N. S. E. W.)

	100 000	HED.	ACTU.		270	OH DAG	CENCE	D.C.		WEEN INTS
AM. TRIPS AM	ARV.	LVG.	TIM ARV.	LVG.	NO.	OF PAS	ON	LVG		ON
S.W. 40 ST. A TROPICAL PARKIANCE		n.c.	800			17	()	~?	• 7	0
			810	7 7	:)	- 9	1.7		.7	5
5.W. 40 ST + 82 AVE,			717			~;)	7)
SW 82 AVE + 24 ST WAY					0		7	P		2
S.W. 24 ST GWAY + 87 AVE			7,20			0	3	3	0	0
11 87 AVE + 16 ST.			83-1		3	0	0	7	0	0
11 16 ST + 82 AVE.			823		٠, ١	^ .	1	:./·	0	カ
11 82 AVE + 85t,			124		14		- 5	4	2	3
SW. 8 ST. & TEMMIAMIBLUL.			724		u	9	7	-/-	0	• •
SW. 71 AVE & FLAGLER ST.			830		<i>'</i> n	9	1	7	1	7
11 FLAGLER ST. 67 AUC			130		7	0	1	8		
), 11 11 62 CT,			9=7		7	0	つ	:	2	0
" " 11 57 AVE +			130	36	-,5-			سبة	7)	7
M.W. 57 AVE + (836 EXPWY)			2771		11	. 1		1.1		
MIAMI AVE, + SE, 4 ST.			155		1 1	?	n	1	0	5
S.E. IAVE + 1 ST.			757		5/	2	7	6	0-	37
N. E 1 AVE + 2 ST Gesu/chirch			108		6	6	0	0	0	0
N.E. I AVE, + 4 St. (M.D.C.C.) Ed +			300		0	0				



Kimley-Horn



PROJECT HOV			DATE	SHEET NO	
		TRANSIT	PASSENGER	COUNT	
TIME ON TIME OFF	MIKE 4:12 F 5:00 CLEAR 3	PM		ROUTE BUS NO. NO.OF SEATS SHEET NO.	- Aut
REMARKS:				DATE	5 19185 THURS

LOCATION	TIM		1611			SENGE		アハルブラ
	ARV	LVG	ARV	OFF	ON	LVG	PETWEEN	6.4
M. MIAMI HUE & NW 519	4:12	4:12	0	0	0	0		
N. MIAMI AVE & BOOST	4:14	4:14	0	0	/	1		
N. MIAMI AVE & ZEO ST	4:14	4:H	/	0	2	3	-	
FLAGLER & NW MAMICT		4:16	3	0	5	8		
NW / AVE & SW / AVE		4:17	8	0	0	8		
S. MIAMI AVE & SW 1ST ST.	4:18		8	0	3	//		
RED RO. 9 NW 300 ST		4:23		2	0	9	i	
W. FLAGGER & NW 6212 CT	4:38			2	0	7		
W. Flifelder 7 IN 07 CT	4:41	4:41	7	1	0	6		
54 32 NVE 7 311 12 - ST	4:49	4:49	6	/	0	15		
GALLOWAY P.D 3 CORAL WAY	4:52	4:52	5	4	0	/		
BIRD RD. & TROPICAL PK.	5:00		1	1	0	0		
								1
	Į	1	ļ	,	1		1	

	Route 48 Date: 5/22	X -56	DIEGNA Tuesda	D'			
			Passe	wgers		Between	en Pts
ocation	Lewe	Arrive	e Off	Dn	Lewing		
Wane Aue /	443 Pm	Ō	D	7	7	٥	J
Flagler / hismi CT	4:45	8			16	٥	3
1 cauci As	4:49	19		۵	19	O	۵
57 Ave	5:03	19	1	٥	18	δ	٥
57 Avel 51 Avel	5:06	18	2	۵		٥	۵
ler 62	5:09	16	1	0	15	٥	D
167/	5:12	15	3	0	12	٥.	٥
ler 11	5:14	12	2	0	10	l	₽
384 St	5:16	9	<i>l</i>	0	8	0	۵
2 Aug	5:18	8	0		8	1	٥
6 St Auf	5:20	1	O	٥	7	٥	٥
7 Aug	5:22	7	1	0 6)	D	0
fuel 24 st	5:23	6	5	٥		6	.0
3+1°	5:26	\$	0	δ	1	٥	6
Ave/	5:28	1	0	۵		1	0
0	5:30	2	Miles M. Lan	e e e e entent		1 1 MANAGEM 4 4	

405.01-64

Metropolitan Dade County — Transit Agency

TRANSIT PASSENGER COUNT

ROUTE 148+3	
BUS NO. 432	_

NAME L. Libralcox 201 LOCATION ON - 13048 d DATE 4-7-83

TIME ON 15:35 TIME OFF 18:20 WEATHER CLOUDY DAY TYES.

IN □ OUT ☒ (N. S. E. Ŵ) ---M -**P**-M⋅ NO. OF PASSENGERS TIME LOCATION Arv. Lvg. Arv. Off OFF ON 513 513 MIAMIAVE + 5 ST 0 -AG-LER ST + 62 AVE W. FLAGLER ST + 67 TAMIAMI \$LVD + SW 8 ST 606 TROPICAL PARKS 40ST + SOAN VIO GHB.

PM. TRIPS PM.									
	543	541		0	0	3	3	0	0
W. FLAG. ST+M/AMI CT +		543		3	Đ	5	8	0	0
SW 1 ST + MIAMI AVE		544		8	0	1	9	0	0
N.W. 57AVE + 7 ST		601		9	2	0	7	0	0
1157 Ave + FLAHER ST.+	605	603		7	1	0	6	0	0
W. Flagher + 62 ST,		605		6		0	5	0	0
W. Flagger er St. + 67 ST		606		5	1	0	4	0	0
W. Fragher St. + 71 AVE		610		4	1	0	3	0	0
TAMMIAMI BLUL + SW 8 ST		612		3	O	O	3	0	0
5.W. 8 ST. + 82 AVE,		616		3	0	Ċ	3	0	0
1, 82 AVE + 16 ST		617		3	1	0	2	0	0
11 16 ST + 87 AVC		619		2	- 1	0	1	0	0
11 87 AVE + 245T GWAY		620			0	0	1	Ü	0
, 24 ST SWAY + 82 AVE		422				0	0	0	U
11 82 AVE, + 40 ST		623		0	0	0	O	0	0
11 405T ATREPIEAL PARKY AVERT	620	624		0	0	0	0	0	0

REMARKS:	

