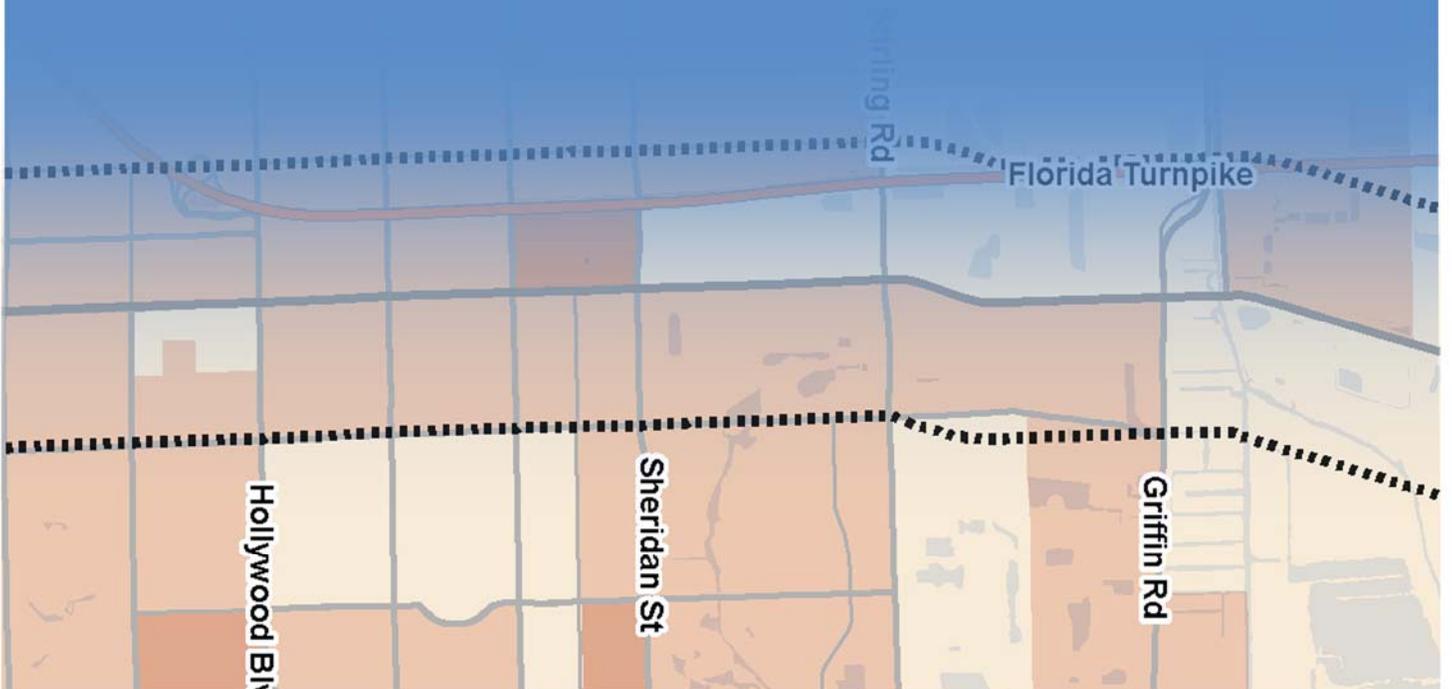


SR 7 MULTIMODAL IMPROVEMENTS CORRIDOR STUDY

TECHNICAL APPENDIX A.1: DATA REVIEW SUMMARY AND DATA NEEDS MEMO



SR 7 Multimodal Improvements Corridor Study Data Review Summary and Data Needs Memorandum

The data review/data collection task was undertaken to review available data and studies and to identify and evaluate additional data items needed for the completion of the SR 7 Multimodal Improvements Corridor Study. The data reviewed and identified for collection as part of this task will develop the project framework and assist in the identification of opportunities to implement improvements along the SR 7 corridor.

A two-phase data review/collection approach was applied to the SR 7 Multimodal Improvements Corridor Study:

- Phase I – focused primarily on the assembly and review of available data
- Phase II – will focus primarily on the collection of additional field data as necessary

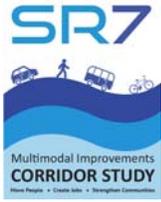
This technical memorandum serves to document the data review and data needs for the SR 7 Multimodal Improvements Corridor Study.

PHASE I

Phase I of the data collection task focused primarily on the assembly and review of available data. The data for Phase I were collected to provide the necessary background information about the corridor and to develop and support the evaluation and analysis of key multimodal characteristics and land use attributes along the corridor. The effort also assisted in the identification the field data that may be necessary as part of Phase II. The Phase I data collection/review effort is summarized into the following three sub-sections:

- Document Review Summary
- Review of Current and Future Corridor Enhancements
- Review and Inventory of Available Technical Data

The document review served two main goals: to develop a better understanding of what planning tools have been examined in the past and what tools are currently available (to avoid “reinventing the wheel”), and to provide the necessary policy and informational background for the development of the project. Table 1 provides a summary of the reviewed documents and identifies key concepts, data, and resources available that will support the SR 7 Multimodal Improvements Corridor Study.



LIST OF REVIEWED DOCUMENTS

- Commitment 2040, Broward Metropolitan Planning Organization, 2014
- 10 Years Down the Road: The State Road 7/U.S. 441 Collaborative, South Florida Regional Planning Council, 2011
- Town of Davie Community Redevelopment Plan, Davie Community Redevelopment Agency, 2012
- City-Wide Master Plan: Geographic, Zoning and Land Use Policies, City of Hollywood, 2001
- Community Redevelopment Plan, City of Lauderdale Lakes, 2013
- State Road 7 Corridor Community Redevelopment Plan, City of Lauderhill, 2005
- Transit Oriented Corridor, City of Margate, 2008
- Margate CRA City Center Vision Plan, City of Margate, 2014
- Transit Oriented Corridor, City of Miramar, 2012
- State Road 7 (South of Sample Road) Corridor Data Collection and Analysis, Florida Department of Transportation, 2012
- SR 7 Survey Data Analysis, Florida Department of Transportation, 2013

Table 1 Document Review

Document/Program Reviewed	Study/Program Details		Purpose of Study/Program	Available Data/Resources and Key Consideration to Support the Corridor Study
	Lead Agency/Department	Document Date		
Commitment 2040 (Broward Long Range Transportation Plan (LRTP))	Broward MPO	2014	<ul style="list-style-type: none"> ➤ Identify goals and policies to direct long-range transportation planning. ➤ Identify long-range cost needs and affordable networks for roads, transit, bicycle, and pedestrian modes. ➤ Promote the safe, secure, and efficient movement of people and goods 	<ul style="list-style-type: none"> ➤ Policy guidance for long-range planning. <ul style="list-style-type: none"> ➤ Existing and future road, transit, bicycle, trail, and pedestrian networks. ➤ Policy guidance on complete streets ➤ Identification of regionally significant, affordable projects including: <ul style="list-style-type: none"> ➤ Enhanced bus service on SR 7 from Golden Glades to Sample Road ➤ Intersection improvements at SR 7 and Oakland Park Blvd
10 Years Down the Road: The State Road 7/U.S. 441 Collaborative	South Florida Regional Planning Council	2011	<ul style="list-style-type: none"> ➤ To examine the impacts of collaborative development efforts on the SR 7/U.S. 441 corridor 	<ul style="list-style-type: none"> ➤ Summary of projects completed on the SR 7/U.S. 441 corridor which provide economic and aesthetic improvements

Table 1 Document Review (Cont'd)

Document/Program Reviewed	Study/Program Details		Purpose of Study/Program	Available Data/Resources and Key Consideration to Support the Corridor Study
	Lead Agency/Department	Document Date		
Town of Davie Community Redevelopment Plan	Davie Community Redevelopment Agency	2012	<ul style="list-style-type: none"> ➤ Identify the extents of the redevelopment area, including the western theme boundary ➤ The boundary includes SR 7 and the area to its east in Davie 	<ul style="list-style-type: none"> ➤ Provide an understanding of the types of redevelopment sought along SR 7 in the Community Redevelopment Plan
City-Wide Master Plan: Geographic, Zoning and Land Use Policies	City of Hollywood	2001	<ul style="list-style-type: none"> ➤ Examine how the various sub-areas will develop 	<ul style="list-style-type: none"> ➤ Identified FDOT's future widening project as a major impact for the corridor ➤ Identified an adverse relationship between the buildings along SR 7 and SR 7
Community Redevelopment Plan	City of Lauderdale Lakes	2013	<ul style="list-style-type: none"> ➤ Presents a concept plan for future land use and redevelopment within the Community Redevelopment Area 	<ul style="list-style-type: none"> ➤ Recommends capitalizing on the redevelopment opportunity presented by transit

Table 1 Document Review (Cont'd)

Document/Program Reviewed	Study/Program Details		Purpose of Study/Program	Available Data/Resources and Key Consideration to Support the Corridor Study
	Lead Agency/Department	Document Date		
State Road 7 Corridor Community Redevelopment Plan	City of Lauderdale	2005	➤ To provide a plan to reverse decades of slow decline in the SR 7 corridor to transform it into a showcase of diversity in style and function	<ul style="list-style-type: none"> ➤ The plan envisions infrastructure and development improvements to revitalize SR 7 ➤ Improve traffic circulation and access on the SR 7 corridor
Transit Oriented Corridor	City of Margate	2008	➤ Creates Transit Oriented Corridor Districts in the City of Margate	<ul style="list-style-type: none"> ➤ Increases the amount of developable front lot depth along SR 7 by 35 feet ➤ Development strategies are identified to increase transit mobility
Margate CRA City Center Vision Plan	City of Margate CRA	2014	➤ Provide a conceptual design for the vision of Margate	➤ Concerned about low residential vacancy rates and rising costs of housing
Transit Oriented Corridor	City of Miramar	2012	➤ Designed to facilitate pedestrian-friendly, mixed-use development	➤ Increases access to transit facilities along the corridor

Table 1 Document Review (Cont'd)

Document/Program Reviewed	Study/Program Details		Purpose of Study/Program	Available Data/Resources and Key Consideration to Support the Corridor Study
	Lead Agency/Department	Document Date		
State Road 7 (South of Sample Road) Corridor Data Collection and Analysis	Florida Department of Transportation	2012	➤ Data collection in anticipation of this MPO study	➤ Collected data on right of way; travel lanes; turning movements; traffic signals; bicycle, transit, and pedestrian facilities; programed roadway and signal improvement projects; future projections of traffic volume and level of service; crash data; and existing land uses
SR 7 Survey Data Analysis	Florida Department of Transportation	2013	➤ Gathered and analyzed farebox, automatic passenger counter, boarding-to-alighting, and origin-destination data	<ul style="list-style-type: none"> ➤ Determined 441 Breeze used for longer distance travel than Route 18 ➤ While activity on 441 Breeze is similar south and north of Davie Blvd, activity levels on Route 18 north of Davie Blvd are higher than the southern portion ➤ Most trips begin and end in the corridor

REFERENCE MATERIAL

The following reference material may be reviewed as part of this project:

- Comprehensive Plans, various municipalities and Broward County
- Land Development Codes, various municipalities and Broward County
- Five-Year Work Program, Florida Department of Transportation, 2015
- Transportation Improvement Program (TIP), Broward Metropolitan Planning Organization, 2015
- Public Participation Plan, Broward Metropolitan Planning Organization, 2014

The Five-Year Work Program and TIP were used to develop a list of recently complete or future projects along or crossing the corridor. The list of projects in a table and visual format are provided as an attachment to this report.

TRANSIT DATA

The following transit data may be reviewed as part of this project:

- Transit Route Schedules, Broward County Transit, 2015
- Ridership Data, Broward County Transit, 2014-15
- Community Bus Route Ridership Data, Broward County Transit, 2014-15

MAPS AND GIS DATA

The following maps and GIS shapefiles have been collected for use as part of this project:

- Future Land Use maps, various municipalities and Broward County
- Zoning maps, various municipalities and Broward County
- Redevelopment Area Map, Davie Community Redevelopment Agency, 2012
- Economic Enhancement District Map, City of Margate
- Shapefiles
 - **Facilities**
 - Hospitals, Broward County
 - Libraries, Broward County
 - City Parks, Broward County
 - County Parks, Broward County
 - City Halls, Broward County
 - Colleges, Broward County
 - Developments of Regional Impact, Broward County

- **Transportation Networks and Related Data**
 - Big Roads, Broward County
 - Bicycle Network, Broward County
 - Sidewalk Network, Broward County
 - Streets, Broward County
 - Transit Routes, Broward County Transit
 - Community Bus Routes, Broward County Transit
 - Transit Stops, Broward County Transit
 - Interstates, Florida Department of Transportation
 - Crash Data, Florida Department of Transportation
 - State Roads, Florida Department of Transportation
 - SIS Facilities, Florida Department of Transportation
- **Boundaries**
 - Census boundaries, U.S. Census Bureau
 - Cities, Broward County
 - County Boundary, Broward County
 - Water, Broward County
 - ZIP Codes, Broward County

TRAFFIC DATA

The following traffic data has been collected by FDOT District 4 and will be reviewed as part of this project:

- Turning Movements for SR 7 Intersections, Florida Department of Transportation

<ul style="list-style-type: none"> ▪ SW 11th Street ▪ NW 19th St ▪ 26th Street ▪ 31st Street ▪ Atlantic Blvd ▪ Bailey Road ▪ Broward Blvd ▪ Coconut Creek Pkwy ▪ Commercial Blvd 	<ul style="list-style-type: none"> ▪ Copans Road ▪ Davie Blvd ▪ Griffin Road ▪ Hallandale Beach Blvd ▪ Hollywood Blvd ▪ Johnson St ▪ Oakland Park Blvd ▪ Pembroke Road ▪ Peters Road 	<ul style="list-style-type: none"> ▪ Prospect Road ▪ Riverland Rd ▪ Sheridan St ▪ Southgate Blvd ▪ Stirling Road ▪ Sunrise Blvd ▪ Taft Street ▪ Washington Street
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- Advanced Transportation Management Systems (ATMS) installation, Florida Department of Transportation
 - **ATMS Installation in Central Broward County (FM #427971-1)**

Awarded in January 2012, this project includes the design and deployment of ATMS along portions of Broward Blvd., Sunrise Blvd., Oakland Park Blvd., US 1/Federal Hwy, SR-7, and University Dr.

Project Components - 10 dynamic message signs, 63 traffic monitoring cameras, 33 travel time collection sites, 54 vehicle data collection devices, software to manage the devices, and approximately 18 miles of fiber optic cable and required conduit.

Construction Schedule - July 2012 – October 2013
 - **ATMS on Three Corridors (FM #431590-1)**

ATMS deployment currently in design for sections of US 441/SR-7, University Dr., and Griffin Rd. A widening project on SR-7 is to precede the main project.

Expected Project Components – Fiber optic cable and conduit, traffic monitoring cameras, transit signal priority transmitters and receivers, dynamic message signs, and vehicle data collection devices

Estimated Construction Schedule - Summer 2014 – Spring 2015

- Lane Configuration Diagrams

PHOTOS

The project team will collect photographs during its field work and public outreach in order to document the issues on SR 7 as well as the outreach conducted. These will be incorporated in the project archive and other deliverables as appropriate.

PHASE II

Phase II involves the collection of data. As defined in the scope, the following data collection will occur.

MOBILITY HUB PEDESTRIAN OBSERVATIONS

To ensure that user needs are adequately understood, bicycle and pedestrian counts will be collected at fifteen (15) locations. The following data will be collected over a twelve (12) hour period including the roadway peak hours and (if different) the peak period for transit ridership activity:

- Compliance with Walk/Don't Walk signals

- Frequency of crossing at intersection, intersection approach, or mid-block
- Apparent transit stop origin/destination or transfer with a special note for transfers
- Use of bike lane or sidewalk and whether cyclist is riding with or against traffic

INTERCEPT SURVEYS

Additionally, at each of the 15 selected locations, pedestrians will be interviewed using an intercept survey to gather detailed data necessary to properly position bus stops and inform decisions about infrastructure. The surveys will be approximately ten (10) questions and will gather information on the following details regarding travel:

- Origins
- Destinations
- Trip purpose
- Bus transfers
- General observations/concerns regarding the corridor

Participants will be encouraged to visit the www.ImproveSR7.org website, join our email or text messaging distribution lists, and provide any additional comments via our online comment form.

BICYCLE AND PEDESTRIAN FACILITIES

Aerial imagery will be used to identify bicycle and pedestrian facilities along and connecting to the SR 7 corridor. Where aerial imagery is not sufficient or conclusive, field observation will be used to confirm facilities.

ADDITIONAL DATA COLLECTION

If needed, additional traffic count, turning movement, or pedestrian count data will be collected. Because FDOT has undertaken comprehensive traffic data collection and the SR 7 scope of services specifically includes the survey, inventory, and pedestrian count/observation tasks described above. No additional use of the data collection budget is needed at this point in the Study. Rather, it is anticipated that the data collection allowance identified under Task 3.03 will be used to evaluate and vet preliminary recommendations developed through Task 6.

FIVE-YEAR WORK PROGRAM AND TRANSPORTATION IMPROVEMENT PLAN DATA

TIP_ID	FM_NUM	WPITEM	WPITMSEG	FISCAL YEAR	DESCRIPTION	PROJECT_TYPE	PHASE_NAME	ROADWAY ID	BEGIN MILE	END MILE	LENGTH
1700	425534-1	425534	1	2013	COCONUT CREEK PKWY FROM ATLANTIC TECHNICAL TO LYONS ROAD	BIKE LANE/SIDEWALK	CONSTRUCTION	86130000	0.604	0.933	0.329
1963	423799-2	423799	2	2014	COCONUT CREEK PKWY FROM SR-7/US-441 TO THE FLORIDA TURNPIKE	SIDEWALK	CONSTRUCTION	86130000	0.000	2.095	2.095
1828	427752-1	427752	1	2013	COCONUT CREEK PKWY TO E OF CC COMMUNITY CTR TO NW 43 AVENUE	SIDEWALK	CONSTRUCTION	86130000	1.013	1.224	0.211
1535	420809-3	420809	3	2012	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	DESIGN BUILD	86095000	0.592	10.407	9.815
1535	420809-3	420809	3	2013	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	DESIGN BUILD	86095000	0.592	10.407	9.815
1535	420809-3	420809	3	2014	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	DESIGN BUILD	86095000	0.592	10.407	9.815
1535	420809-3	420809	3	2015	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	DESIGN BUILD	86095000	0.592	10.407	9.815
4208093	420809-3	420809	3	2016	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	DESIGN BUILD	86095000	0.592	10.407	9.815
4208093	420809-3	420809	3	2017	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	DESIGN BUILD	86095000	0.592	10.407	9.815
4208093	420809-3	420809	3	2018	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	DESIGN BUILD	86095000	0.592	10.407	9.815
4208093	420809-3	420809	3	2019	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	DESIGN BUILD	86095000	0.592	10.407	9.815
4208093	420809-3	420809	3	2020	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	DESIGN BUILD	86095000	0.592	10.407	9.815
1538	420809-7	420809	7	2012	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	CONSTRUCTION	86095000	0.592	10.407	9.815
1538	420809-7	420809	7	2013	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	CONSTRUCTION	86095000	0.592	10.407	9.815
1538	420809-7	420809	7	2014	I-595/SR-862/ P3 FROM E. OF I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	CONSTRUCTION	86095000	0.592	10.407	9.815
1537	420809-5	420809	5	2012	I-595/SR-862/P3/CEI FROM I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	CONSTRUCTION	86095000	0.592	10.407	9.815
1537	420809-5	420809	5	2013	I-595/SR-862/P3/CEI FROM I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	CONSTRUCTION	86095000	0.592	10.407	9.815
1537	420809-5	420809	5	2014	I-595/SR-862/P3/CEI FROM I-75 TO W. OF I-95	ADD LANES & RECONSTRUCT	CONSTRUCTION	86095000	0.592	10.407	9.815
332				2013	MIRAMAR PKWY FROM SR 7 TO SW 64TH AVE	Streetscape	CONSTRUCTION	86509501	2.068	2.574	0.506
4316651	431665-1	431665	1	2019	NW 19TH STREET FROM SR-7 TO SR-845/POWERLINE ROAD	BIKE LANE/SIDEWALK	CONSTRUCTION	86570500	0.000	2.183	3.000
2746				2020	RIVERLAND FROM SR-7 TO DAVIE BLVD	RESURFACING	CONSTRUCTION	86000076	0.000	2.594	2.594
1594	424311-1	424311	1	2013	SR-7/US-441 @ 11 TH PLACE CITY OF LAUDERHILL	INTERCHANGE IMPROVEMENT	CONSTRUCTION	86100000	0.000	0.000	0.000
4350931	435093-1	435093	1	2016	SR-7/US-441 @ NW 29TH STREET	TRAFFIC SIGNAL UPDATE	CONSTRUCTION	86100000	12.961	13.137	0.176
1815	426853-1	426853	1	2012	SR-7/US-441 @ RIVERLAND ROAD	SAFETY PROJECT	CONSTRUCTION	86100000	8.359	8.536	0.177
1851	428273-1	428273	1	2014	SR-7/US-441 @ SOUTHGATE BLVD	SAFETY PROJECT	CONSTRUCTION	86100000	17.551	17.787	0.236
1585	423796-1	423796	1	2012	SR-7/US-441 @ SR-838/SUNRISE BLVD INTERSECTION	PUBLIC TRANSPORTATION SHELTER	CONSTRUCTION	86100000	13.200	13.415	0.215
2277753	227775-3	227775	3	2018	SR-7/US-441 FR S OF SR-820/HOLLYWD BL TO S OF SR-848/STIRLING RD	LANDSCAPING	CONSTRUCTION	86100000	2.839	5.090	2.251
1997	429742-1	429742	1	2015	SR-7/US-441 FROM LUCKY STREET TO SR-818/GRIFFIN RD	LIGHTING	CONSTRUCTION	86100000	5.518	6.126	0.608
15	227774-1	227774	1	2014	SR-7/US-441 FROM N OF HALLANDALE BCH TO N. OF FILLMORE STREET	ADD LANES & RECONSTRUCT	CONSTRUCTION	86100000	1.050	2.833	1.951
2277743	227774-3	227774	3	2018	SR-7/US-441 FROM N OF HALLANDALE BCH TO N. OF FILLMORE STREET	LANDSCAPING	CONSTRUCTION	86100000	1.048	2.834	1.786
126	227775-1	227775	1	2015	SR-7/US-441 FROM N. OF FILLMORE TO S OF STIRLING RD	ADD LANES & RECONSTRUCT	CONSTRUCTION	86100000	2.833	4.930	2.097

TIP_ID	FM_NUM	WPITEM	WPITMSEG	FISCAL YEAR	DESCRIPTION	PROJECT_TYPE	PHASE_NAME	ROADWAY ID	BEGIN MILE	END MILE	LENGTH
1955	228188-1	228188	1	2012	SR-7/US-441 FROM NW 3RD STREET TO S OF 29TH STREET	LIGHTING	CONSTRUCTION	86100000	10.461	12.986	2.525
1822	427010-1	427010	1	2013	SR-7/US-441 FROM S. OF HOLMBERG/JOHNSON RD TO BROWARD/PBC LINE	RESURFACING	CONSTRUCTION	86100000	23.290	24.591	1.301
1842	427937-1	427937	1	2015	SR-7/US-441 FROM SR-834/SAMPLE ROAD TO BROWARD/PB COUNTYLINE	PD&E	CONSTRUCTION	86100000	20.865	24.591	3.726
4279371	427937-1	427937	1	2017	SR-7/US-441 FROM SR-834/SAMPLE ROAD TO BROWARD/PB COUNTYLINE	BIKE LANE/SIDEWALK	CONSTRUCTION	86100000	20.865	24.591	3.726
4279372	427937-2	427937	2	2017	SR-7/US-441 FROM SR-870/COMMERCIAL BOULEVARD TO SR-834/SAMPLE ROAD	ITS COMMUNICATION SYSTEM	CONSTRUCTION	86100000	14.794	20.865	6.071
4363411	436341-1	436341	1	2018	SR-834/SAMPLE RD. FROM ROCK ISLAND RD TO SR-5/US-1	MISCELLANEOUS CONSTRUCTION	CONSTRUCTION	86028000	1.685	9.491	7.806
1850	428024-1	428024	1	2014	SR-842/BROWARD BLVD FROM PINE ISLAND ROAD TO SR-5/US-1	URBAN CORRIDOR IMPROVEMENTS	CONSTRUCTION	86006000	0.390	7.166	6.776
4280241	428024-1	428024	1	2016	SR-842/BROWARD BOULEVARD FROM PINE ISLAND ROAD TO I-95	URBAN CORRIDOR IMPROVEMENTS	CONSTRUCTION	86006000	0.000	5.019	5.773
4287251	428725-1	428725	1	2017	SR-848/ STIRLING RD FROM E OF UNIVERSITY DR. TO EAST OF SR-7/US-441	RESURFACING	CONSTRUCTION	86016000	0.018	2.735	2.717
1975	428733-1	428733	1	2017	SR-858/HALLANDALE BEACH BLVD FROM E OF SR-7 TO W OF LAKESHORE DRIVE	RESURFACING	CONSTRUCTION	86200000	0.220	2.166	1.946
96	425859-1	425859	1	2014	WILES ROAD FROM ROCK ISLAND ROAD TO SR-7/US-441	ADD LANES & REHABILITATE PVMNT	CONSTRUCTION	86000011	0.663	1.726	1.063

