ARTPLAN 2002 Conceptual Planning Analysis

Description/File Information

Filename	W:\04\04211\cb\Traffic Study 2008 \artplan\existing\AP_PM_Old Cutler_SB.xml	**Date Prepared**	4/9/2010		
Program	ARTPLAN	**Version**	5.2.0		
Analyst	DPA	**Agency**		**District**	
Arterial Name	Old Cutler Rd	**Begin Intersection**	SW 176 Street	**End Intersection**	SW 184 Street
Study Period	Kother	**Peak Direction**	Southbound		
User Notes	Existing PM Peak 2008 Conditions				

Facility Data

Roadway Variables		Traffic Variables		Control Variables		Multimodal Variables	
Area Type	Urbanized	**AADT**	14872	**Arrival Type**	4	**Paved Shoulder/Bike Lane**	No
Class	2	**K**	0.103	**Signals/Mile**	1.00	**Outside Lane Width**	Typical
Posted Speed	40	**D**	0.66	**Cycle Length**	120	**Pavement Condition**	Typical
# Thru Lanes	2	**PHF**	0.98	**Through g/C**	0.5	**Sidewalk**	Yes
Median Type	None	**% Turns Excl. Lanes**	1	**Control Type**	Semiactuated	**Sidewalk/Roadway Separation**	Typical
Left Turn Lanes	No	**% Heavy Vehicles**	2			**Sidewalk/Roadway Protective Barrier**	No
		Base Sat Flow Rate	1900			**Obstacle to Bus Stop**	No
		Local Adj. Factor	0.98			**Bus Freq**	1
		Adjusted Sat Flow Rate	1387			**Bus Span Of Service**	15

Automobile Segment Data

Segment #	Cycle Length	g/C	Arr. Type	% Turns	# Dir. Lanes	Length	AADT	Hourly Vol.	FFS	Median Type
1 (to SW 184 Street)	110	0.69	4	1	1	0.625	14872	1011	45	None

Automobile LOS

Segment #	Thru Mvmt Flow Rate	v/c	Control Delay	Int. Approach LOS	Speed (mph)	Segment LOS
1 (to SW 184 Street)	1021	1.07	37.65	D	23.7	F

Arterial Length	0.6	Auto Speed	****	Auto LOS	F

Automobile Service Volume Tables

	A	B	C	D	E
Lanes	**Hourly Volume In Peak Direction**				
1	810	970	***	***	***
2	1780	1930	***	***	***
3	2750	2900	***	***	***
4	3710	3870	***	***	***
*	810	970	***	***	***
Lanes	**Hourly Volume In Both Directions**				
2	1220	1460	***	***	***
4	2700	2930	***	***	***
6	4160	4390	***	***	***
8	5620	5860	***	***	***
*	1220	1460	***	***	***
Lanes	**Annual Average Daily Traffic**				
2	11900	14200	***	***	***
4	26200	28400	***	***	***
6	40400	42700	***	***	***
8	54600	56900	***	***	***
*	11900	14200	***	***	***

Multimodal Segment Data

Segment #	Pave Shldr /Bike Lane	Outside Lane Width	Pave Cond	Side walk	Sidewalk Roadway Separation	Sidewalk Roadway Protective Barrier	Obstacle To Bus Stop	Bus Freq	Bus Span Service
1 (to SW 184 Street)	No	Typical	Typical	Yes	Typical	No	No	1	15

Pedestrian SubSegment Data

	% of Segment			Sidewalk			Separation			Barrier		
Segment #	1	2	3	1	2	3	1	2	3	1	2	3
1 (to SW 184 Street)	100			Yes			Typical			No		

Multimodal LOS

	Bicycle LOS		Pedestrian LOS					Bus LOS	
Segment #	Segment	Score	1	2	3	Segment	Score	Segment	Adj.Bus
1 (to SW 184 Street)	E	4.63	D			D	4.42	E	1.00

Bicycle LOS	4.63	E	Pedestrian LOS	4.42	D	Bus LOS	1.00	E

MultiModal Service Volume Tables

Bicycle

	A	B	C	D	E
Lanes	**Hourly Volume In Peak Direction**				
1	**	**	**	**	**
2	**	**	**	**	**
3	**	**	**	**	**
4	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Hourly Volume In Both Directions**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Annual Average Daily Traffic**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**

Pedestrian

	A	B	C	D	E
Lanes	**Hourly Volume In Peak Direction**				
1	**	**	**	**	**
2	**	**	**	**	**
3	**	**	**	**	**
4	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Hourly Volume In Both Directions**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Annual Average Daily Traffic**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**

Bus

	A	B	C	D	E
Lanes	**Buses Per Hour In Peak Direction**				
2	>6.00	>4.00	>=3.00	>=2.00	>=1.00
Lanes	**Buses in Study Hour in Peak Direction (Daily)**				
2	>6.00	>4.00	>=3.00	>=2.00	>=1.00

*** Service Volumes for the specific facility being analyzed, based on # of lanes from the segment data screen.**
**** Cannot be acheived using table input value defaults.**
***** Not applicable for that level of service letter grade. See generalized tables notes for more details.**
****** Intersection capacity (ies) are exceeded for the full hour; an operational level analysis tool is more appropriate for this situation.**

ARTPLAN 2002 Conceptual Planning Analysis

Description/File Information

Filename	W:\04\04211 2010 es\Travel Time Study\artplan\fut w proj\AP_PM_Old Cutler_SB.xml	**Date Prepared**	4/8/2010		
Program	ARTPLAN	**Version**	5.2.0		
Analyst	DPA	**Agency**		**District**	
Arterial Name	Old Cutler Rd	**Begin Intersection**	SW 176 Street	**End Intersection**	SW 184 Street
Study Period	Kother	**Peak Direction**	Southbound		
User Notes	Future (2015) with Project - PM Peak				

Facility Data

Roadway Variables		Traffic Variables		Control Variables		Multimodal Variables	
Area Type	Urbanized	**AADT**	14872	**Arrival Type**	4	**Paved Shoulder/Bike Lane**	No
Class	2	**K**	0.103	**Signals/Mile**	1.00	**Outside Lane Width**	Typical
Posted Speed	40	**D**	0.66	**Cycle Length**	120	**Pavement Condition**	Typical
# Thru Lanes	2	**PHF**	0.98	**Through g/C**	0.5	**Sidewalk**	Yes
Median Type	None	**% Turns Excl. Lanes**	1	**Control Type**	Semiactuated	**Sidewalk/Roadway Separation**	Typical
Left Turn Lanes	No	**% Heavy Vehicles**	2			**Sidewalk/Roadway Protective Barrier**	No
		Base Sat Flow Rate	1900			**Obstacle to Bus Stop**	No
		Local Adj. Factor	0.98			**Bus Freq**	1
		Adjusted Sat Flow Rate	1387			**Bus Span Of Service**	15

Automobile Segment Data

Segment #	Cycle Length	g/C	Arr. Type	% Turns	# Dir. Lanes	Length	AADT	Hourly Vol.	FFS	Median Type
1 (to SW 184 Street)	130	0.74	4	1	1	0.625	16240	1168	45	None

Automobile LOS

Segment #	Thru Mvmt Flow Rate	v/c	Control Delay	Int. Approach LOS	Speed (mph)	Segment LOS
1 (to SW 184 Street)	1180	1.15	69.56	E	17.7	F

Arterial Length	0.6	Auto Speed	****	Auto LOS	F

Automobile Service Volume Tables

	A	B	C	D	E
Lanes	**Hourly Volume In Peak Direction**				
1	980	1040	***	***	***
2	2030	2070	***	***	***
3	3060	3110	***	***	***
4	4090	4150	***	***	***
*	980	1040	***	***	***
Lanes	**Hourly Volume In Both Directions**				
2	1490	1570	***	***	***
4	3080	3140	***	***	***
6	4640	4710	***	***	***
8	6200	6280	***	***	***
*	1490	1570	***	***	***
Lanes	**Annual Average Daily Traffic**				
2	14500	15300	***	***	***
4	29900	30500	***	***	***
6	45000	45800	***	***	***
8	60200	61000	***	***	***
*	14500	15300	***	***	***

Multimodal Segment Data

Segment #	Pave Shldr /Bike Lane	Outside Lane Width	Pave Cond	Side walk	Sidewalk Roadway Separation	Sidewalk Roadway Protective Barrier	Obstacle To Bus Stop	Bus Freq	Bus Span Service
1 (to SW 184 Street)	No	Typical	Typical	Yes	Typical	No	No	1	15

Pedestrian SubSegment Data

	% of Segment			Sidewalk			Separation			Barrier		
Segment #	1	2	3	1	2	3	1	2	3	1	2	3
1 (to SW 184 Street)	100			Yes			Typical			No		

Multimodal LOS

	Bicycle LOS		Pedestrian LOS					Bus LOS	
Segment #	Segment	Score	1	2	3	Segment	Score	Segment	Adj.Bus
1 (to SW 184 Street)	E	4.70	E			E	4.79	F	0.85

Bicycle LOS	4.70	E	Pedestrian LOS	4.79	E	Bus LOS	.85	F

MultiModal Service Volume Tables

Bicycle

	A	B	C	D	E
Lanes	**Hourly Volume In Peak Direction**				
1	**	**	**	**	**
2	**	**	**	**	**
3	**	**	**	**	**
4	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Hourly Volume In Both Directions**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Annual Average Daily Traffic**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**

Pedestrian

	A	B	C	D	E
Lanes	**Hourly Volume In Peak Direction**				
1	**	**	**	**	**
2	**	**	**	**	**
3	**	**	**	**	**
4	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Hourly Volume In Both Directions**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**
Lanes	**Annual Average Daily Traffic**				
2	**	**	**	**	**
4	**	**	**	**	**
6	**	**	**	**	**
8	**	**	**	**	**
*	**	**	**	**	**

Bus

	A	B	C	D	E
Lanes	**Buses Per Hour In Peak Direction**				
2	>7.00	>5.00	>=4.00	>=3.00	>=2.00
Lanes	**Buses in Study Hour in Peak Direction (Daily)**				
2	>7.00	>5.00	>=4.00	>=3.00	>=2.00

*** Service Volumes for the specific facility being analyzed, based on # of lanes from the segment data screen.**
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