

Board Report

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SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE JUNE 18, 2015

SUBJECT: BOARD MOTION 21 - SILVER LINE SERVICE IMPROVEMENTS AND CONNECTIONS

ACTION: RECEIVE AND FILE

RECOMMENDATION

RECEIVED AND FILED report responding to **Motion 21: Bus Rapid Transit Service - Silver Line,** brought forward at the February 2015 System Safety, Security and Operations Committee.

<u>ISSUE</u>

The Board approved Motion 21 in February 2015, directing staff to improve connections between the Silver Line and service operating into South Bay communities via the Harbor/Gateway Transit Center (H/GTC). Staff was asked to evaluate a number of service options to improve frequencies of local connections and improve timed transfers. These options would be presented with resource requirements, ridership impacts, and implementation schedule. In addition, staff was to coordinate with the South Bay Municipal Operators including Torrance, Gardena, Beach Cities Transit and other relevant stakeholders.

BACKGROUND

The Silver Line concept began as early as 1994, as the Harbor Transitway was being constructed by Caltrans. The concept, known then as the "dual hub", was to consolidate a number of express lines serving El Monte Station and the H/GTC into one frequent express service. However, this concept was not implemented at that time. Since then, Metro began operating the Silver Line in December 2009, providing daily service between El Monte Station and H/GTC through Downtown Los Angeles.

Currently, the Silver Line operates as a Bus Rapid Transit (BRT) provides a simple rail like routing with a frequent (five minute peak and 15 minute mid-day) service. Ridership has grown steadily from 6,500 on an average weekday to over 15,500. Ridership has grown the quickest on the Downtown to H/GTC route segment: from about 3,000 per average weekday when the Silver Line first began to nearly 6,500 in March 2015. There are now slightly more passengers on the South Bay side of the Silver Line than on the San Gabriel side. Currently all Silver Line trips operate between the H/GTC through Downtown LA to El Monte Station, with limited stops in Downtown LA. This routing has

eliminated transfers in Downtown LA, and provides BRT connections to all of the Metro Rail lines. A detailed history describing the planning and implementation of the Silver Line can be found in **Attachment B**.

The Silver Line has become successful and this success can be measured by the following advantages and service improvements:

- Patronage has grown over 135% since inception in December, 2009;
- Ridership from the H/GTC to Downtown LA has recently exceeded ridership on the El Monte Busway side of the line;
- Separating the local and express portions of the old routes has improved on-time performance on the now local or limited lines ;
- The Silver Line has existing late night timed connections with the Metro Green Line;
- Local buses currently have scheduled connections to the Silver Line;
- Unique Silver Line branding makes the buses identifiable;
- Due to the Silver Line's frequency, G-Trans (Gardena) has routed local buses and some of their express services to the H/GTC, thereby reducing duplicative service on the Harbor Transitway, and providing better connections for South Bay residents. Torrance Transit will also introduce Line 4 mid-day service which will terminate at the H/GTC;
- The popularity of the Silver Line has increased the use of the H/GTC park-ride lot from one that was ¼ full, to one where finding an empty parking space is difficult; and;
- Improvements at the H/GTC (construction of a Sheriff's substation, public toilet, new graphics and signage) and at stations (improved lighting/sound walls/bus stops) located on the Harbor Transitway have improved transit usage, as shown below:

	2009	2014	5 Year
Harbor Transitway	Prior to	With	Growth
Station Stop	Silver Line	Silver Line	Factor
Harbor/Gateway TC	1,215	3,439	2.83
Rosecrans Station	113	388	3.43
Harbor Green Line	694	1,510	2.18
Manchester Station	131	542	4.13
Slauson Station	112	364	3.25
37th St/USC Station	70	220	3.15
TOTALS	2,335	6,463	2.77

Harbor Transitway Ridership Increases by Station

DISCUSSION

The Board Motion directed staff to evaluate the following five service change options to improve connections between the Silver Line and service operating into South Bay communities via the H/GTC:

A. Direct routing of Silver Line trips into Palos Verdes and San Pedro.

Line 450 (Downtown LA - San Pedro via Harbor Transitway) currently provides peak period alternating trips between San Pedro and Downtown LA thru H/GTC. During mid-days and weekend this line provides service between H/GTC and San Pedro via the Harbor Freeway.

Line 246 (San Pedro - Harbor Gateway TC via Avalon BI) provides local stop service from San Pedro to the H/GTC. This service takes about one hour and seven minutes to make that journey during rush hours.

Line 344 (Palos Verdes - Harbor Gateway TC via Hawthorne BI) provides limited stop service along Hawthorne BI while Torrance Transit Lines 4 and 8 provide local service. Line 344 currently takes up to one hour and twenty minutes each way.

The Silver Line currently takes one hour and six minutes to travel from H/GTC to El Monte Station during peak hours.

In order to extend Silver Line trips from H/GTC without a significant increase in operating cost and buses, the duplicate service on Lines 246 and 344 would need to be canceled. New combined Silver Line and Lines 246 and 344 will have one-way trips of nearly two hours and thirty minutes in each direction. It would be difficult to schedule Bus Operator work schedules that would be efficient. Also as the Silver Line operates five minute frequency service during rush hours, with heavy passenger loads, a bus from PV or San Pedro that was even a few minutes late would create significant overloads.

Should the Silver Line be extended, the quality of service would degrade on both the Express and Local portions of the route. Currently, local patrons enjoy excellent on-time performance, which is up to 80% on Line 344. Neither of the two local lines is currently affected by freeway issues (accidents, closures, downtown LA protest, rain delays, etc.) that would cause local patrons on-time reliability issues. If the Silver Line is extended to replace the local/limited stop lines, the OTP would also be negatively affected by an increase in periodic overcrowding. The patronage chart shown below in Section B indicates that the majority of patrons on the local lines could be affected by service delays north of the H/GTC

Timed transfers (when the headways are wider) give patrons a short wait to board the Silver Line.

B. Improved frequencies on local services Lines 246 and 344 for better connections with the Silver Line.

Today, service on these lines operates every 20 to 30 minutes in the peak periods; weekday mid-day service is provided on an hourly basis. On Saturdays service is every 40 minutes, while on Sundays & holidays buses operate hourly service.

During these long headway periods, service on these lines is scheduled to provide a timed transfer to and from the Silver Line to provide a shorter wait time at the H/GTC.

Ridership on all local lines traveling up to the H/GTC is low. The chart below shows that a large number of patrons boarding buses in San Pedro and Palos Verdes are not destined to Downtown LA. On both lines, more than 70 to 80% of the patrons are riding locally, with only the remainder 20 to 30% destined to the H/GTC. Even upon arrival at the Center, it is not known how many patrons continue on the Silver Line, or utilizes the other 11 lines at the Center.

			% NOT Going to H/GTC	% GOING to H/GTC
	Ons	Offs		
Weekday	1397	317	79%	21%
Saturday	883	243	72%	28%
Sunday	675	188	72%	28%

Line 344

Line 246

			% NOT Going to H/GTC	% GOING to H/GTC
	Ons	Offs		
Weekday	851	297	65%	35%
Saturday	553	193	65%	35%
Sunday	330	98	70%	30%

While service levels on both lines could be improved during weekday mid-day and weekends to operate every 30 minutes, ridership demand, as shown above, does not warrant additional service. The estimated additional service hours and costs are shown below in the Recommendation portion of this report. If approved by the Board, these proposed changes could be implemented as part of the December 2015 schedule change program. Should the changes require a Public Hearing and and/or Title VI analysis, additional service could be implemented on a demonstration basis until the hearings could take place.

C. Timed transfers and improved on-time performance to ensure connections are met.

Currently, timed transfers are in place at H/GTC and late night connections at the Harbor Green Line Station. On-time performance for the local feeder lines has improved up to 80% since creation of the Silver Line. Staff regularly evaluates the Silver Line performance to

insure these established connections are maintained. Schedules to be implemented June 28, 2015 will continue existing connections already in place.

D. Evaluation is based on the demand for the connection by time of day and day of week; and addresses fare pricing implications, resource and other requirements, ridership impacts, and implementation schedule.

Scheduled connections to and from the Silver Line are currently in place. Due to the frequency of the line, connections are not necessary until the headways widen in the mid-day, evening, and on weekends. There is also a late night Silver Line connection with the Metro Green Line at the Harbor Freeway Station.

Under Metro's current pricing policy, transfers are free up to two hours after an initial TAP. Since inception, the Silver Line has had a simplified line fare which equals one base fare plus one zone fare, which today remains the same (\$2.50). Today, a Line 246 or 344 patron using a Day Pass to access the Silver Line pays no additional charge. A stored value TAP user would pay a 75 cent upcharge at the H/GTC; however this would not change even if the Silver Line were extended to San Pedro. No matter what services are implemented, there are no negative fare pricing implications because the current fare structure includes a one zone upcharge and free transfers with a stored value TAP card.

Potential Service Alternatives

The travel time just from San Pedro or the Palos Verdes Peninsula to the H/GTC is over one hour. It is not recommended to extend Silver Line trips to these far terminals, which would cause the Silver Line to have one-way trip times of nearly two and a half hours. The local segments today have good on-time performance (up to 80%), which would be negatively affected by the volatility of the freeways. In turn, the Silver Line five minute headway would suffer should delays occur on the South Bay surface streets.

The two lines (246, 344) that travel from central San Pedro and the Palos Verdes Peninsula to H/GTC operate hourly weekday mid-day and weekend service. If service levels were improved during these time periods to a 30 minute frequency, the estimated annual increase in revenue bus hours and cost would be an estimated \$3.56 million per year. As today, local line buses would be scheduled to meet arriving and departing Silver Line buses.

The following proposed additional Revenue Service Hours are shown in the table below:

Improve Weekday Base and Weekend All-Day Service						
to Every 30"						
				Annual	Annual	
Line #	Daily	Saturday	Sunday	Rev. Hrs.	Est. Cost	
246	47	18	31	14,720	\$2,060,000	

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344	35	15	17	10,700	\$1,500,000
Total	103	49	61	32,420	\$3,560,000

Coordinate with South Bay Municipal Operators

Staff contacted relevant stakeholders and found that the Silver Line as operated today meets the needs of the South Bay, and reduces duplication of other operators. In the case of extending the line to Palos Verdes Estates, the line would duplicate a number of Torrance Transit services, as well as compete with LADOT Express Line 448, which operates from Downtown LA on the Harbor Express Lanes to Palos Verdes Estates. Gardena Transit has reduced some service to Downtown LA because of the Silver Line's frequency and point-to-point service, thereby reducing operating cost.

TITLE VI ENVIRONMENTAL JUSTICE IMPACT

The proposed service adjustments described in this report meet the definition of a major service change as defined in LACMTA's Administrative Code. A public hearing could be required, and an evaluation of the proposed changes would need to be conducted per the Title VI guidelines.

DETERMINATION OF SAFETY IMPACT

There are no safety issues associated with the items presented in this report.

FINANCIAL IMPACT

The Board consideration of the of the proposed service changes presented in this report to Lines 246 and 344 are not included in the FY16 budget. To include the additional service would require an estimated annual increase in revenue bus hours and the cost would be an estimated \$3.56 million per year

ALTERNATIVES CONSIDERED

Service today is operating with light weekday base and all-day weekend ridership, and only 70 to 80% are destined to the H/GTC. At this time, potential 30 minute service during these time periods is not warranted. The service could remain as scheduled today, with future schedule adjustments implemented should demand materialize.

NEXT STEPS

Should the Board of Directors direct staff to pursue implementing potential service improvements as described in this report, staff will plan to conduct a public hearing and perform the Title VI evaluation.

ATTACHMENTS

Attachment A - February Motion 21, Bus Rapid Transit Service - Silver Line Attachment B - Development of the Silver Line

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