

# **Board Report**

Los Angeles County
Metropolitan Transportation
Authority
One Gateway Plaza
3rd Floor Board Room
Los Angeles, CA

File #: 2019-0151, File Type: Contract

Agenda Number: 24.

# OPERATIONS, SAFETY, AND CUSTOMER EXPERIENCE COMMITTEE JULY 18, 2019

SUBJECT: A650 HEAVY RAIL VEHICLE OVERHAUL AND CRITICAL COMPONENT

REPLACEMENT PROGRAM

ACTION: APPROVE RECOMMENDATIONS

#### RECOMMENDATION

AUTHORIZE the Chief Executive Officer to:

- A. INCREASE the Life-of-Project (LOP) budget to Contract No. A650-2015, for the Heavy Rail Vehicle Overhaul and Critical Component Replacement Program (OCCRP), by \$6,047,723 increasing the total Life-of-Project (LOP) budget from \$99,061,908 to \$105,109,632;
- B. EXECUTE Contract Modification No. 4 to Contract No. A650-2015, with Talgo Inc., for the Heavy Rail Vehicle Overhaul and Critical Component Replacement Program (OCCRP), for the truck frame inspection and repair services in the firm-fixed price amount of \$5,054,030; and
- C. EXECUTE Contract Modifications under this Contract for up to \$1,000,000 per Contract Modification.

#### **ISSUE**

During a routine vehicle inspection, cracks were identified on the truck frames of the original Option A650 heavy rail vehicle fleet. This fleet, consisting of 74 heavy rail vehicles and twelve (12) spare truck frames, is currently undergoing a modernization effort. Inspection services are required to identify additional truck frames present with cracks among the fleet. Repair services are required should cracks be identified during the inspection effort.

Inspecting and repairing the vehicle truck frame is a good engineering practice for the foundation of the whole rail vehicle and promotes the safety of the rail vehicle's critical sub-systems. Having a single reliable firm perform this work will streamline the inspection, repairs and warranty process and minimize the impacts to revenue service.

## **BACKGROUND**

The Metro Red Line opened in January 1993. The existing Option Order vehicles have been in

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revenue service for an average of twenty-five (25) years.

Metro places the highest priority on the safety of our customers, the public, and our employees. To that extent, there is a constant focus on taking proactive measures to maintain our rail vehicle fleet in a State of Good Repair and seek innovative approaches to prevent accidents on our rail system.

During a routine vehicle inspection, cracks were observed on a number of truck frames used on the A650 Heavy Rail Vehicles. Metro's Rail Vehicle Engineering (RVE) immediately developed an inspection and repair procedure, which included using magnetic particle inspection (MPI) on all mating members, welds and beam surfaces. Two (2) of the truck frames that were found to have cracks were then sent out to a local vendor for additional inspection, then repaired. It was then determined that the entire fleet would require inspection and repair if needed.

Several inspection and repair options were considered to avoid impacting revenue service and the ongoing modernization effort, including using a local vendor to perform this work. However, it was determined that having Talgo perform the inspection and repair on all 74 Option A650 heavy rail vehicles and twelve (12) spare truck frames currently undergoing a modernization effort was the fastest and most economical way forward with the least impact to revenue service and the ongoing modernization effort.

#### **DISCUSSION**

To mitigate this issue, staff proposes performing non-destructive testing (NDT) on all 74 Option A650 heavy rail vehicles and twelve (12) spare truck frames currently undergoing a modernization effort. After the testing is complete, truck frames identified with cracks shall be repaired and repainted prior to re-assembly.

If the contract modification is approved, Talgo Inc. shall perform the testing and inspection on the 74 Option A650 heavy rail vehicles currently undergoing a modernization effort and the twelve (12) spare truck frames.

The Diversity and Economic Opportunity Department (DEOD) did not recommend a Disadvantaged Business Enterprise (DBE) goal for this procurement as it is not applicable. This procurement falls under the Federal Transit Administration's (FTA) Transit Vehicle Manufacturer (TVM) goal in accordance with 49 Code of Federal Regulations (CFR) Part 26.49. However, Talgo Inc. has established a 6.51% DBE goal under the FTA TVM goal.

## **DETERMINATION OF SAFETY IMPACT**

Approval of this item will have a direct and positive impact to system safety, service quality, system reliability, maintainability and overall customer satisfaction.

#### FINANCIAL IMPACT

The approved LOP budget for CP 206038 - A650 HRV Midlife Modernization Project is \$99,061,908. This amount includes funds for the HRV Modernization project and Contract Modification No.1, 2 and

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3. There are also funds allocated for Professional Services, Metro Labor, and Project Contingency. The requested LOP increase of \$6,047,723 also includes other technical and program management support services. The LOP will increase from \$99,061,908 to \$105,109,632.

This contract modification action will not impact the FY20 Budget.

Since this is a multi-year contract/project, the Cost Center Manager, Project Manager, and Senior Executive Officer, Vehicle Engineering and Acquisition will be responsible for ensuring that project costs are budgeted in future Fiscal Years.

#### Impact to Budget

The funding sources for this project may come from Transportation Development Act (TDA) Article 4, Cap and Trade, and other State and Federal funding. Funding will be allocated as funding allocations and opportunities arise. Use of these funding sources will maximize allowable funding mechanisms given approved funding provisions.

#### **IMPLEMENTATION OF STRATEGIC PLAN GOALS**

Approval of this recommendation supports the following Metro Strategic Plan Goal 5) Provide responsive, accountable, and trustworthy governance within the Metro organization. This project will improve safety, service, and reliability in an effort to provide a world-class transportation system that enhances quality of life for all who live, work, and play within LA County.

#### ALTERNATIVES CONSIDERED

The Board may choose not to approve these contract modifications. However, this alternative is not recommended. A catastrophic failure of the vehicle truck frame could cause a major disruption in service, thus directly impacting customer safety and customer service.

#### **NEXT STEPS**

Upon Board approval, the contract modification will be exercised with Talgo, Inc.

#### **ATTACHMENTS**

Attachment A - Procurement Summary

Attachment B - DEOD Summary

Attachment C - Contract Modification Log

Attachment D - Funding & Expenditure Plan

Prepared by: Andrew Kimani, Sr. Manager, Project Manager, (213) 922-3221

Jesus Montes, Sr. EO, Vehicle Engineering & Acquisition, (213) 418-3277

Reviewed by: James T. Gallagher, Chief Operations Officer, (213) 418-3108

Debra Avila, Chief Vendor/Contract Management Officer, (213) 418-3051

Phillip A. Washington Chief Executive Officer

#### PROCUREMENT SUMMARY

# HEAVY RAIL VEHICLE OVERHAUL AND CRITICAL COMPONENT REPLACEMENT PROGRAM/CONTRACT NUMBER A650-2015

1.	Contract Number: A650-2015					
2.	Contractor: Talgo, Inc.					
3.	Mod. Work Description: Add truck frame inspection and repairs to Overhaul Program					
4.	<b>Contract Work Descr</b>	iption: Overhaul A	650 Heavy Rail Vehicles			
5.	The following data is	current as of: 06.	10.19			
6.	Contract Completion	Status	Financial Status			
				,		
	Contract Awarded:	10.5.16	Contract Award	\$54,698,676		
			Amount:			
	Notice to Proceed	01.16.17	Total of	\$30,671,726		
	(NTP):		Modifications			
			Approved:			
	Original Complete	11.16.19	Pending	\$ 5,054,030		
	Date:		Modifications			
			(including this			
			action):			
	Current Est.	05.16.22	Current Contract	\$90,424,432		
	Complete Date:		Value (with this			
			action):	1		
	Contract Administrator					
7.	Contract Administrator:		Telephone Number:			
<u> </u>	Wayne Okubo		(213)922-7466			
8.	Project Manager:		Telephone Number:			
	Andrew Kimani		(213)922-3221			

#### A. Procurement Background

This Board Action is to approve Contract Modification No. 4 issued in support of the addition of truck frame repairs to the A650 Heavy Rail Vehicle (HRV) as part of the overhaul and critical component replacement program on the Option Buy A650 consisting of 74 vehicles.

This Contract Modification will be processed in accordance with Metro's Acquisition Policy and the contract type is a firm fixed unit price.

On September 22, 2016, Metro's Board of Directors approved Board Agenda Item 2016-0538 to Talgo, Inc. in the amount of \$54,698,676 for the overhaul of 38 A650 Heavy Rail Vehicles, with the option to overhaul the remaining 36 vehicles of the newest A650 fleet. On October 26, 2017, Metro's Board of Directors approved the exercise of a Contract Option to overhaul the remaining 36 heavy rail vehicles increasing the contract value to \$72,970,494.

The intent of this overhaul program is to replace vital systems and components and update relevant technology to ensure the continued safety, reliability, availability,

and maintainability of the newest A650 heavy rail fleet for full revenue service and maintain the fleet's State of Good Repair.

This recommended Contract Modification is to add the inspection, testing, and repair of cracks discovered in the vehicle truck frame to the scope of the A650 overhaul program currently underway by Talgo. This change has merit because the work fulfills the intent of the overhaul program to ensure the safety, reliability and availability of the A650 HRVs.

#### **B.** Cost/Price Analysis

The recommended price has been determined to be fair and reasonable based upon cost analysis, technical evaluation, fact finding, and negotiations.

Proposal Amount	Metro ICE	Negotiated Amount
\$5,136.812	\$1,732,350	\$5,054,030

The difference between the Metro ICE and the Negotiated Amount is attributed to a number of factors that were not fully considered in the Metro ICE.

The Metro ICE was developed using direct labor rate estimates only and did not address labor or manufacturing overheads. The correct application of fully burdened labor rates would have significantly increased the ICE amount.

The Metro ICE also underestimated transportation costs. Due to the specialized nature of the work, the non-destructive testing and the repairs will be performed at a subcontractor's facility and this will require specialized transportation.

Another major factor not considered in the Metro ICE is the schedule impact. The inclusion of this work into the A650 overhaul program will require an extension of the project by 2 months. The costs associated with the schedule extension were not included in the Metro ICE. Other factors such as travel costs and profit were also not part of the Metro ICE.

#### **DEOD SUMMARY**

# HEAVY RAIL VEHICLE OVERHAUL AND CRITICAL COMPONENT REPLACEMENT PROGRAM/CONTRACT NUMBER A650-2015

#### A. Small Business Participation

Talgo Inc. is a Transit Vehicle Manufacturer (TVM) and is on the Federal Transit Administration's (FTA) list of eligible TVMs. Talgo Inc. reported that it submitted its overall Disadvantaged Business Enterprise (DBE) goal of 1.65% to FTA for FY19, in compliance with 49 Code of Federal Regulations (CFR) Section 26.49(a)(1). TVMs submit overall DBE goals and report participation directly to FTA annually.

#### B. Living Wage and Service Contract Worker Retention Policy Applicability

The Living Wage and Service Contract Worker Retention Policy is not applicable to this contract. Rolling stock solicitations are not one of the covered contract types in Metro's Living Wage and Service Contract Worker Retention Policy.

## C. Prevailing Wage Applicability

Prevailing Wage is not applicable to this contract.

## D. Project Labor Agreement/Construction Careers Policy

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract. Project Labor Agreement/Construction Careers Policy is applicable only to construction contracts that have a construction related value in excess of \$2.5 million.

#### E. Local Employment Plan Program (LEP)

Local Employment Plan Program is applicable on this contract. Staff will be monitoring progress on all LEP commitments, including the contractual commitments in creating employment opportunities in Los Angeles County and the 10% commitment to hire disadvantaged workers.

Local Employment Plan Commitment:

LEP Commitment for Base + All Options	\$2,212,675
LEP Actuals to Date	\$0.00
Balance of LEP to be attained	\$2,212,675
Disadvantaged Workers attainment	\$0.00

The manufacturer LEP Plan identifies that the LEP achievements and Disadvantaged Worker participation will commence in the assembly stage of the contract.

# CONTRACT MODIFICATION/CHANGE ORDER LOG NAME OF PROJECT/CONTRACT NUMBER

Mod. no.	Description	Status (approved or pending)	Date	\$ Amount
1	Exercise Option to overhaul 18 additional A650 HRV married pairs	Approved	10.26.17	\$18,271,818
2	Add MFSS to A650 HRV OCCRP	Approved	09.28.18	\$10,355,000
3	Add TWC to A650 HRV OCCRP	Approved	01.24.19	\$ 2,044,908
4	Add truck frame inspection and repair	Pending	07.25.19	\$ 5,054,030
	Modification Total:			\$35,725,756
	Original Contract:			\$54,698,676
	Total:			\$90,424,432

**ATTACHMENT D - Funds Uses and Sources Tables** 

Professional Services   99.04.64.40   513.04.027   515.08.02   515.09.021   50   50   50   545.09.026				ATTACHIVIE	II D - Funds Uses a	illa Jources Tables				
Bereal Funds										
Openhal II Option May Verticide										
Professional Services   \$9,0446,448   \$13,464,727   \$15,506,627   \$0   \$54,046,676   \$0   \$14,046,676   \$1,			(ITD) thru FY18 Jun	7/1/18 - 6/30/19	7/1/19 - 6/30/20	7/1/20 - 6/30/21	7/1/21 - 6/30/22	7/1/22 - 6/30/23		
Memory   March   Memory   Me	Use	e of Funds		FY19	FY20	FY21	FY22	FY23	Total	% of Project
Secretarization	Ove	erhaul 38 Option-Buy Vehicles	\$9,846,449	\$13,468,252	\$15,985,361	\$15,398,614	\$0	\$0	\$54,698,676	83.2%
Sections   Contingency   S13,778,875   S1,873,774   S1,873,774   S1,873,774   S1,873,774   S1,873,774   S1,873,774   S1,873,874   S1,873,774   S1,	Prof	ofessional Services	\$2,179,051	\$913,333	\$1,000,667	\$659,645	\$0	\$0	\$4,752,696	7.2%
Secret Vehicle Summary   \$11,378,852   \$14,001,864   \$17,578,028   \$16,366,641   \$0   \$36,723,179   \$15,278,872	MTA	A Administration	\$1,353,353	\$422,279	\$542,000	\$310,382	\$0	\$0	\$2,628,014	4.0%
Contract Modifications - Option Vehicle Overhaul	Con	ntingency	\$0	\$0	\$0	\$0	\$0	\$3,653,754	\$3,653,754	5.6%
Contract Modifications - Option Vehicle Overhaal  Contract Modifications - Option Vehicle Overhaal - Option Vehicle Overhaal Act Modifications  Contract Modifications - Option Vehicle Overhaal - Option Vehicle Overhaal Act Modifications  Contract Modifications - Option Vehicle Overhaal Act Modifications  Contract Modifications - Option Vehicle Overhaal Act Modifications  Contract Modifications - Vehicle Contractor  Contract Modifications - Vehicle Contracto	38 1	Newest Vehicle Summary	\$13.378.853	\$14.803.864	\$17.528.028	\$16.368.641	\$0	\$3.653.754	\$65,733,139	100.0%
Company   Comp									, , ,	
Operated 36 Options Vehicles	Con	ntract Modifications - Option Vehicle Overhaul								
10   Professional Services		•	\$4 624 856	\$1 240 633	Śſ	\$1 757 088	\$8 770 768	\$1,878,473	\$18 271 818	87.3%
11   M. Administration		·								2.9%
Confinency   September   Sep										2.1%
Section Whisele Contract Modifications   Section Whiseles   Section Whiteles   Section Whiseles   Section Whiteles   Section										7.8%
14   Option-Buy Vehicles										100.0%
September   Sept		Option venicle order summary	\$4,624,856	\$1,240,633	\$0	\$2,229,683	\$9,310,166	\$3,523,523	\$20,928,861	100.0%
Professional Services										
17   MTA Administration										84%
Some   Contingency   So   So   So   So   So   So   So   S								- '		6%
Order Summary Total	MTA	A Administration	\$1,353,353	\$422,279	\$542,000	\$435,137	\$290,000	\$22,407		4%
Contract Modifications - Vehicle Contractor							7.	\$5,276,397	\$5,276,397	6%
Contract Modifications - Vehicle Contractor  Contract Modifications - Vehicle Contractor  Contract Modifications - Vehicle Contract Modifications  Contract Modificat	Ord	der Summary Total	\$18,003,708	\$16,044,496	\$17,528,028	\$18,598,325	\$9,310,166	\$7,177,277	\$86,662,000	100.0%
2. 2. 1. Add Fire Mist Suppression System (FMSS)										
2.2 Add Frie Mist Suppression System (FMSS) Option	Con	ntract Modifications - Vehicle Contractor								
2.2 Add Frie Mist Suppression System (FMSS) Option	2.1.	. Add Fire Mist Suppression System (FMSS)	\$0	\$1.094.013	\$2,732,140	\$1,491,280	\$0	ŚO	\$5.317.432	30%
3.1. Add Train To Wayside Communication (TWC)   50   \$221,492   \$537,728   \$290,888   \$50   \$51,050,088							\$2,732,140	\$1,064,568		29%
2.2. Add Train To Wayside Communication (TWC) Option   50   \$0   \$0   \$246,861   \$537,728   \$210,231   \$994,820										6%
4. 1. Add Truck Frame Inspection and Repair Services (Increase  \$ 50							\$537 728	\$210.231		6%
Requested   S0   S1,86/A55   S12/A58   S0   S0   S2,595,313   4.2 Add Truck Frame Inspection and Repair Services (Option Vehicles)   S0   S0   S0   S605,634   5.2 S5,137,323   S2,510,006   S0   S2,953,313   5.3 Newest Vehicle Contract Modifications   S0   S1,315,505   S5,137,323   S2,510,006   S0   S6,962,833   5.3 Newest Vehicle Contract Modifications   S0   S1,315,505   S5,137,323   S2,603,361   S1,794,389   S8,891,105   5.0 Total Contract Modifications - Vehicle Contractor   S0   S1,315,505   S5,137,323   S4,603,361   S1,794,389   S17,453,938   5.0 Contract Modifications - Consultant   S1   S1,000,000   S0   S0   S0   S0   S0   S0									\$33 i,020	
4.2 Add Truck Fame Inspection and Repair Services (Option Vehicles) 1.2 The Increase Requested) 2.2 The Increase Requested of the Increase Requested of Services (Option Vehicles) 2.3 Rewest Vehicle Contract Modifications 3.5 Option Vehicle Order Contract Modifications 3.5 Option Vehicle Order Contract Modifications 3.6 Option Vehicle Order Contract Modifications 3.7 Option Vehicle Order Contract Modifications 3.8 Newest Vehicle Contract Modifications 3.9 Option Vehicle Order Contract Modifications 3.0 Option Vehicle Order Summary Including Contract Modifications 3.0 Option Vehicle Order Summary Including Contract Modifications 3.0 Option Vehicle Order Summary Including Contract Modifications 3.1 Option Vehicle Order Summary Including Contract Modifications 3.2 Option Vehicle Order Summary Including Contract Modifications 3.3 Newest Vehicle Summary Including Contract Modifications 3.4 Option Vehicle Order Summary Including Contract Modifications 3.5 Option Vehicle			\$0	\$0	\$1,867,455	\$727,858	\$0	\$0	\$2 595 313	15%
Increase Requested		, ,							72,333,313	
8 Newest Vehicle Contract Modifications			\$0	\$0	\$0	\$605,634	\$1,333,493	\$519,590	\$2.459.717	14%
29 36 Option Vehicle Order Contract Modifications			ćo	Ć1 215 505	ĆE 127 222	ć2 F10 00C	ćo	ćo		51%
Total Contract Modifications - Vehicle Contractor    So   \$1,315,505   \$5,137,323   \$4,603,361   \$4,603,361   \$1,794,389   \$17,453,988							·			
Contract Modifications - Consultant		•		•						49%
Contract Modifications - Consultant		tal Contract Modifications - Vehicle Contractor	\$0	\$1,315,505	\$5,137,323	\$4,603,361	\$4,603,361	\$1,794,389	\$17,453,938	100%
\$\frac{33}{34}\$\$\begin{align*} \begin{align*} \begi						•	•			
38 Newest Vehicle Contract Modifications		ntract Modifications - Consultant								
35   36 Option Vehicle Order Contract Modifications   \$0   \$0   \$0   \$0   \$0   \$794,955   \$198,739   \$993,693   36   Total Contract Modifications - Vehicle Contractor   \$0   \$0   \$0   \$0   \$794,955   \$198,739   \$993,693   37   38   Newest Vehicle Summary Including Contract Modifications   \$13,378,853   \$16,119,369   \$22,665,351   \$18,878,647   \$0   \$3,653,754   \$74,695,972   38   Soption Vehicle Order Summary Including Contract Modifications   \$4,624,856   \$1,240,633   \$0   \$4,323,039   \$14,708,481   \$5,516,651   \$30,413,659   36   Option Vehicle Order Summary Including Contract Modifications   \$4,624,856   \$1,240,633   \$0   \$4,323,039   \$14,708,481   \$5,516,651   \$30,413,659   37   Total New Order Summary Including Contract Modifications   \$18,003,708   \$17,360,002   \$22,665,351   \$23,201,685   \$14,708,481   \$9,170,405   \$105,109,632   38   Soption Vehicle Order Summary Including Contract Modifications   \$4,624,856   \$1,240,633   \$0   \$4,323,039   \$14,708,481   \$5,516,651   \$30,413,659   39   Total New Order Summary Including Contract Modifications   \$18,003,708   \$17,360,002   \$22,665,351   \$23,201,685   \$14,708,481   \$9,170,405   \$105,109,632   30   Sources of Funds   FY19   FY20   FY21   FY22   FY23   Total Sources   30   Measure R 2% (206038)   \$1,636,916   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$	1.1.	. Add Ten (10) Months Contract Extension Option						\$198,739	\$993,693	100%
Total Contract Modifications - Vehicle Contractor \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	38 1	Newest Vehicle Contract Modifications	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0%
37 38 Newest Vehicle Summary Including Contract Modifications \$13,378,853 \$16,119,369 \$22,665,351 \$18,878,647 \$0 \$3,653,754 \$74,695,972 \$  39 36 Option Vehicle Order Summary Including Contract Modifications \$4,624,856 \$1,240,633 \$0 \$4,323,039 \$14,708,481 \$5,516,651 \$30,413,659 \$  17 Total New Order Summary Including Contract Modifications \$18,003,708 \$17,360,002 \$22,665,351 \$23,201,685 \$14,708,481 \$9,170,405 \$105,109,632 \$  18 REF! Sources of Funds \$1,636,916 \$1,636,91	36 0	Option Vehicle Order Contract Modifications	\$0	\$0	\$0	\$0	\$794,955	\$198,739	\$993,693	100%
38 Newest Vehicle Summary Including Contract Modifications \$13,378,853 \$16,119,369 \$22,665,351 \$18,878,647 \$0 \$3,653,754 \$74,695,972 \$  39 36 Option Vehicle Order Summary Including Contract Modifications \$4,624,856 \$1,240,633 \$0 \$4,323,039 \$14,708,481 \$5,516,651 \$30,413,659 \$  4REF! Total New Order Summary Including Contract Modifications \$18,003,708 \$17,360,002 \$22,665,351 \$23,201,685 \$14,708,481 \$9,170,405 \$105,109,632 \$  4REF! Sources of Funds \$1,636,916 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Tota	tal Contract Modifications - Vehicle Contractor	\$0	\$0	\$0	\$0	\$794,955	\$198,739	\$993,693	100%
38 Newest Vehicle Summary Including Contract Modifications \$13,378,853 \$16,119,369 \$22,665,351 \$18,878,647 \$0 \$3,653,754 \$74,695,972 \$  39 36 Option Vehicle Order Summary Including Contract Modifications \$4,624,856 \$1,240,633 \$0 \$4,323,039 \$14,708,481 \$5,516,651 \$30,413,659 \$  ##REF! ##RE										
39 36 Option Vehicle Order Summary Including Contract Modifications \$4,624,856 \$1,240,633 \$50 \$4,323,039 \$14,708,481 \$5,516,651 \$30,413,659 \$	38 N	Newest Vehicle Summary Including Contract Modifications	\$13,378,853	\$16,119,369	\$22,665,351	\$18.878.647	\$0	\$3,653,754	\$74.695.972	71.06%
#REF! Total New Order Summary Including Contract Modifications \$18,003,708 \$17,360,002 \$22,665,351 \$23,201,685 \$14,708,481 \$9,170,405 \$105,109,632 \$105,109,109,109,109,109,109,109,109,109,109			7-0,000	7-0//	7//	7-5/61 5/6 11		70,000,101	<i>ϕ. 1,000,01</i>	
#REF!   Total New Order Summary Including Contract Modifications   \$18,003,708   \$17,360,002   \$22,665,351   \$23,201,685   \$14,708,481   \$9,170,405   \$105,109,632   \$105,1	36 0	Option Vehicle Order Summary Including Contract Modifications	\$4 624 856	\$1 240 633	\$0	\$4 323 039	\$14 708 481	\$5 516 651	\$30.413.659	28.94%
#REF!   Sources of Funds   FY19   FY20   FY21   FY22   FY23   Total Sources   #REF!   Measure R 2% (206038)   \$1,636,916   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$										100.00%
#REF! Sources of Funds FY20 FY21 FY22 FY23 Total Sources #REF! Measure R 2% (206038) \$1,636,916 \$0 \$0 \$0 \$0 \$0 \$0 \$1,636,916 #REF! PropA 35% Bonds/Cash \$6,290,906 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$6,290,906 #REF! Transportation Development Act Article 4 \$6,376,002 \$16,367,495 \$18,079,978 \$11,050,849 \$4,589,435 \$7,895,606 \$64,359,365		Oracl callinary meaning contract mountained	\$10,003,708	\$17,500,00Z	722,003,331	723,201,003	717,700,401	<i>\$3,110,403</i>	\$103,103,032	100.00%
#REF! Measure R 2% (206038) \$1,636,916 \$0 \$0 \$0 \$0 \$0 \$1,636,916 #REF! PropA 35% Bonds/Cash \$6,290,906 \$0 \$0 \$0 \$0 \$0 \$6,290,906 #REF! Transportation Development Act Article 4 \$6,376,002 \$16,367,495 \$18,079,978 \$11,050,849 \$4,589,435 \$7,895,606 \$64,359,365		wass of Funds		FV40	EV20	EV24	EV22	rv22	Total Courses	%
#REF! PropA 35% Bonds/Cash \$6,290,906 \$0 \$0 \$0 \$0 \$6,290,906 \$ \$6,290,906 \$ \$6,290,906 \$ \$ \$6,290,906 \$ \$ \$6,290,906 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			Å1 COC 016		-					
#REF! Transportation Development Act Article 4 \$6,376,002 \$16,367,495 \$18,079,978 \$11,050,849 \$4,589,435 \$7,895,606 \$64,359,365										1.6%
										6.0%
		·								61.2%
		deral 5337 Funding	\$3,699,884	\$992,506	\$0		\$6,849,179	\$0	\$15,000,000	14.3%
#REF! Cap and Trade; Other State & Federal sources (206038)* \$0 \$5,422,537 \$0 \$5 \$5,422,537							' '	' '		5.2%
#REF! Division 20 Portal, Turnback, and Storage Project \$0 \$0 \$4,585,373 \$3,269,868 \$3,269,868 \$1,274,799 \$12,399,908	_		\$0	\$0	\$4,585,373	\$3,269,868	\$3,269,868	\$1,274,799	\$12,399,908	11.8%
#REF! * Future Local, State & Federal Funds to be identified as they become av 0 0			0	0						
#REF! Total Funding Sources \$18,003,708 \$17,360,002 \$22,665,351 \$23,201,685 \$14,708,481 \$9,170,405 \$105,109,632	! Tota	tal Funding Sources	\$18,003,708	\$17,360,002	\$22,665,351	\$23,201,685	\$14,708,481	\$9,170,405	\$105,109,632	100.0%

<sup>\*</sup> Staff will pursue additional funding sources to supplement Project 206038 budget which may become available through MAP-21 or other federal sources for this project and also utilize other State and Local funding sources as opportunities arise such as Cap and Trade or other new sources.