FORM GEN, 160

CITY OF LOS ANGELES

INTER-DEPARTMENTAL CORRESPONDENCE

0160-01545-0000

August 4, 2010 Date:

To: **City Council**

From:

Miguel A. Santana, City Administrative Officer Mugul a. Surface Gerry F. Miller, Chief Legislative Analyst Mark

SIXTH STREET VIADUCT IMPROVEMENT PROJECT - FINANCIAL PLAN Subject:

Summary

At it July 29, 2010 meeting, the Seismic Governance Committee considered a report from the Bureau of Engineering relative to the Financial Plan for the Sixth Street Viaduct Improvement Project (SSVIP). Based on that report, the City Administrative Office and Chief Legislative Analyst are transmitting joint recommendations to enable the City to complete the demolition and replacement of the Sixth Street Viaduct over the Los Angeles River.

The Sixth Street Viaduct (City No. 1275, State No. 53C1880), a reinforced concrete structure with steel arches over the Los Angeles River, is a historical landmark built in 1932. The bridge is one of California's longest bridges in a high population zone, spanning more than 3,600 feet. It also serves as an important transportation east-west corridor, linking Boyle Heights and downtown Los Angeles by carrying two lanes of traffic in each direction over the Los Angeles River, Santa Ana Freeway, several railroad tracks and surface streets. The viaduct is composed of three independent structures: the reinforced concrete west portion, the central steel arch section over the Los Angeles River, and the reinforced concrete east portion. The portion of the bridge spanning over the I-5 Freeway is owned by Caltrans.

The Sixth Street Viaduct suffers from a condition known as Alkali Silica Reactivity (ASR) which weakens the concrete strength and limits the ability to retrofit the bridge to current standards. The bridge is listed on Caltrans' mandatory seismic retrofit list and analyses performed indicate that this bridge has a 70 percent probability of failure, as compared to a standard of 10 percent, during a 7.0 magnitude earthquake within the next 50 years. This probability of failure increases every year. There are no known methods to reverse or stop ASR and if nothing is done to mitigate the ASR impact, the concrete elements will crumble and fall apart. No other bridge in the City has this severe condition and it is imperative that the City replace the bridge structure.

Project Scope and Budget

Since 2001, the Bureau of Engineering (BOE) has undertaken various preliminary activities related to the SSVIP, including community outreach, environmental analysis, planning and In addition to these activities, the project site was visited by the geotechnical studies. California Transportation Commission on September 9, 2009 to understand the issues related to the bridge structure and review the ASR impact on the structure.

The scope of the project includes: design, demolition of the existing bridge, associated right of way acquisitions and construction of a replacement bridge. The project is anticipated to take six years from certification of the environmental documents, through design, right of way acquisition, construction and beneficial occupancy. The total cost estimate for the SSVIP is \$359.3 million. The source of funds for the project includes the following:

- \$316.8 million (88%) Federal Highway Bridge Program
- \$38.3 million (11%) State Proposition 1B, Local Bridge Seismic Retrofit Program
- \$4.2 million (1%) City of Los Angeles (Proposition G & Proposition C)

The federal and state monies are allocated on an annual, reimbursement basis. The annual allocations contain specific dollar caps associated with distinct project phases, i.e., right of way, design, and construction. As a general rule, the federal government will reimburse right of way costs at \$20 million per year and the State will match this with \$2.5 million per year. For construction costs, the federal reimbursement will increase to \$50 million per year with a state match of \$6.4 million. The City's annual costs for the project, however, are expected to exceed these amounts, which will require gap and front-funding. Therefore, it is recommended that the Council approve the use of Advanced Construction Authority (AC) process, as described below, for the construction of the SSVIP and utilize MICLA for the necessary gap financing needs.

Advance Construction Authority (AC)

The process known as Advance Construction Authority (AC) allows local jurisdictions to commit funds in advance of federal and state budget authority. In order to take advantage of this process, the City must apply to Caltrans and demonstrate sufficient funds to cover project costs until federal reimbursements are available. Not only will limiting the City's work to match the federal and state funding amounts increase the total project cost, it is infeasible during the construction phase. In order for the City to complete the project in a timely and cost-effective manner, as well as take advantage of the low local match requirement, it will be necessary for the City to use the AC process.

The City's expenses related to the MICLA expenses (principal, cost of issuance and debt service) are allowable federal and state grant expenditures. This means that the City will eventually be fully reimbursed for these costs. The risk to the City of undertaking AC is that if federal funds are not provided, it would be necessary for the City to identify up to \$359 million to complete the project or cancel the project. It is unlikely that the federal government would not provide the funding they have committed to this project, however, the timing and nature of a new federal surface transportation bill makes the receipt of the City's funds uncertain. A new federal transportation bill should be in place before the award of the construction contract for the bridge, however, it is possible that reauthorization will not take place until after the 2012 elections. Financial risk to the City could be mitigated if the award of the bridge construction contract occurs after Congress approves a new reauthorization of Federal surface transportation funding, although reimbursements would still lag behind expected expenditures. Staff recommends that the City Engineer be required to obtain Council authority before executing the construction contract for this project.

It is possible that additional federal dollars would be available annually and, if awarded to the City, could reduce the amount of the MICLA budget for this project. The City's financial exposure and need for MICLA funding may also be reduced if the City is awarded federal monies that are unspent by other jurisdictions. These additional federal monies are known as Additional Obligation Authority (OA) and the amount available annually ranges from \$20 million

to \$200 million statewide. This year, the amount of OA available for the SSBRP may be as high as \$95 million and may be granted to the City if all our environmental documents are completed by August 2010.

In order for the SSVIP to move forward, Caltrans has requested that the City's governing body approve the use of local AC and the funding source, such as MICLA, as a cash flow source for the yearly project expenses that exceed the federal and state annual reimbursements. The City would assume responsibility for the project costs until all yearly state and federal allocations have been disbursed. As the project progresses, project budget authority responsibility shifts from the City to the federal funding until the federal and state monies fully fund the project. Other jurisdictions such as San Francisco, San Diego and Long Beach also have large-scale bridge replacement projects that are being constructed through the AC process.

MICLA Authority

As stated above, by approving the financial plan, the City is committing to cash flow project expenditures until annual federal and state reimbursements are available. The cash flow mechanism proposed is the issuance of up to \$72.4 million in MICLA over the life of the project. This MICLA issuance falls into the City's 7.5 percent ceiling debt category because the issuance has dedicated funding repayment sources. The City has sufficient capacity within this category to proceed with the issuance. This MICLA issuance will not affect the City's self-imposed five percent ceiling on non-voter approved debt because, as noted above, the City's expenses related to the MICLA are allowable federal and state grant expenditures. It is estimated that, over the next six years, interest costs of \$14 million will be financed by the General Fund and later reimbursed by the federal and state funding sources.

It is recognized that the MICLA requirement for this project is a significant commitment from the City. While there are a number of other capital projects that have been deferred because MICLA funding for these projects was suspended, the SSVIP is a high priority project with only a small portion of local funding required. It is important to note that the deferred capital projects were subject to the City's six percent ceiling on non-voter approved debt, which created additional General Fund debt. The MICLA authority recommended for this project will not be a long-term General Fund obligation.

BOE and their financial consultant prepared the following chart that shows annual anticipated project expenses, planned federal and state reimbursements, MICLA cash flow required and projected MICLA repayments:

Fiscal Year	Anticipated	Available		MICLA Cashfl	ow	MICLA Pay	back
	Expenses	Reimburse	ements	Required		-	
Prior yrs	\$ 15.	\$	15.3	\$	0.0	\$	0.0
2011	\$ 41.) \$	27.6	\$ 1	3.4	\$	0.0
2012	\$ 29.) \$	27.6	\$	1.4	\$	0.0
2013	\$ 21.	3 \$	22.6	\$	0.0	\$	0.8
2014	\$ 89.) \$	73.4	\$ 3	0.6	\$	14.1
2015	\$ 75.) [\$	56.5	\$ 1	8.5	\$	0.0
2016	\$ 65.) \$	56.5	\$	8.5	\$	0.0
2017	\$ 11.	2 \$	56.5	\$	0.0	\$	45.3
2018	\$ 11.	\$	23.3	\$	0.0	\$	12.2
Total	\$ 359.	3 \$	359.3	\$ 72	2.4	\$	72.4

The tentative MICLA drawdown schedule assumes MICLA is used to fund project invoices and that federal and state reimbursements are processed and received within four months. The reimbursements would then be used to cash flow subsequent project invoices on a revolving basis until the annual federal and state reimbursement limits are reached. Once the annual reimbursements are exhausted, the City would use MICLA to cover additional invoices until the beginning of the next federal and state fiscal year when new annual allocations would be available.

RECOMMENDATIONS:

That the Council, subject to the approval of the Mayor:

- 1. AUTHORIZE the City Engineer to execute and submit an Advanced Construction Process financial plan for the Sixth Street Viaduct Improvement Project to the appropriate federal and state authorities for approval;
- 2. AUTHORIZE the issuance of up to \$72.4 million in MICLA financing to cash flow the Sixth Street Bridge Project with the understanding that all of the City's costs related to this financing will be fully reimbursable from federal and state grants;
- 3. INSTRUCT the City Engineer to provide monthly updates on the status of this project to the Seismic Governance Committee and require a specific authorizing action by the City Council before each phase of the project is undertaken and prior to the award of the construction contract for this project.

FISCAL IMPACT

Use of \$72.4 million in MICLA funding will require that the General Fund initially cash flow the interest costs associated with this transaction. The anticipated interest cost of \$14 million is included in the total estimated cost of the project of \$359.3 million. The project's federal and state grant funding sources will fully reimburse the City for these MICLA costs. In the unlikely event that a new federal transportation bill is not approved, the City would be responsible for either completing or canceling the project. We recommend that the City Engineer obtain City Council authority to award the construction contract for this project so that we can be assured that a new Federal surface transportation bill has been authorized by Congress by the construction award date.

Attachments:

6th Street Viaduct Seismic Improvement Project Initial Financial Plan Bureau of Engineering Report-Authority to Issue Financing for the Replacement of the 6th Street Viaduct over the Los Angeles River-dated May 27, 2010.

MAS:GFM:LEH:MSR:05110002

CITY OF LOS ANGELES INTER-DEPARTMENTAL CORRESPONDENCE

Date: May 27, 2010

- To: Seismic Governance Committee Ray Ciranna, Interim City Administrative Officer, Chair Gerry F. Miller, Chief Legislative Analyst Gary Lee Moore, City Engineer
- From: Julie Sauter, Program Manager HW Bridge Improvement Program Bureau of Engineering
- Subject: 6th Street Viaduct Seismic Improvement Project Financial Plan and Recommendations for Project Financing

AUTHORITY TO ISSUE FINANCING FOR THE REPLACEMENT OF THE 6TH STREET VIADUCT OVER THE LOS ANGELES RIVER (BRIDGE NO. 53C-1880) AND THE 6TH STREET OVERCROSSING, WHICH IS A PORTION OF THE US 101 HOLLYWOOD FREEWAY (BRIDGE NO. 53-0595).

RECOMMENDATIONS

That the Seismic Governance Committee approve and recommend that the City Council:

- Authorize up to \$72.4 million of MICLA short term bonds to cover the anticipated cumulative annual federal and state funding allocation shortfalls for the project. The principle of these bonds as well as the issuance and interest costs, estimated at \$14.0 million will be reimbursed by federal Highway Bridge Program (HBP) funds, matched by state Proposition 1B Local Bridge Seismic Retrofit Account (LBSRA) funds;
- 2. Approve the Advanced Construction funding plan shown in Table 1, "Project Funding Plan with Advanced Construction Authority by Phase". This table shows how Caltrans will approve funding for each phase of the project (i.e. ROW or Construction) and then allocate future years' funding through an "Advanced Construction Authority" mechanism. This authority also allows the City to qualify for the reimbursement of bond costs.

DISCUSSION

Background

The Sixth Street Viaduct Seismic Improvement Project is funded with state and federal funds, with a local City of Los Angeles match. The total project cost is estimated at \$359.3 million, which includes financing costs. The City is contributing \$4 million of the total project cost as

local match. The funding plan has been incorporated into the project's required Financial Plan¹. The Financial Plan needs to be submitted before the project secures its environmental Record of Decision, anticipated in October 2010. Caltrans has approved the total funding for the project with federal HBP funds matched by state Proposition 1B LBSRA funds. These funds are stretched out over a longer time period than the project's cash flow requires. Therefore, the City will need to finance a portion of the cash flow to keep the project on schedule.

Funding Plan

The following charts show the project costs and the funding plan. These assumptions, including the need to finance the cash flow, as described in the next section, are included in the Project's Financial Plan.

Chart 1: Project Costs

PROJECT PHASE	CO	ST (escalated)
PA & ED (Project Approval and Environmental Doc)	\$	15,316,356
Final Design (Plans, Spec. & Estimates)		10,000,000
ROW (Right of Way)		81,833,000
Financing Costs		2,890,395
Detour and Demo of Existing Viaduct		12,548,466
Reconstruction of Viaduct		210,506,290
CE (Construction Support)		15,145,000
Financing Costs		11,086,247
Total Project Cost	\$	359,325,754

¹ The Draft Financial Plan for the Sixth Street Viaduct Seismic Improvement Project has been prepared in accordance with federal requirements and consistent with FHWA Financial Plan Guidance. Federal Highway Administration (FHWA) issued a Memorandum "*Project Financial Plan Requirements under SAFETEA-LU*" which directed every state Department of Transportation (DOT) and public agency receiving federal highway funds to prepare Project Financial Plans for projects between \$100 and \$500 million in accordance with the FHWA Financial Plan Guidance issued May 2000 and updated on January 2007. This plan must be accepted by Caltrans before the project's environmental plan can be certified.

Chart 2: Project Funding Plan

Fund No.	Fund Title	Dept. No.	Acc't. No.	Total
	Federal Highway Bridge Program (HBP) Funds			\$ 304.4 million
	State Proposition 1B Bridge Seismic (LBSRA) Funds			\$ 36.7 million
	City Matching Funds – Prop. C Line Item, CIEP and Prop. G Seismic Bond			\$ 4.0 million
	Other State Funds			\$ 0.2 million
	Reimbursement of Bond Financing Costs (Federal HBP with State Prop 1B LBSRA match)			\$ 14.0 million
	Total, Funding			\$ 359.3 million

Financing Needs

The following sections discuss:

- The federal and state funding allocation shortfalls and how they would be mitigated with MICLA bonds;
- A way to accelerate state and federal funding and thereby reduce MICLA bonds needs;
- The monthly invoice reimbursement assumptions; and
- Advanced Construction Authority (AC).

Federal and State Funding Allocation Shortfalls and Need for MICLA Bonds: Caltrans has agreed to program full funding for the 6th Street Viaduct Project, but stretched out over a longer time period. This allocation plan does not fit the Project's cash flow needs but fully funds the project over time. In order to keep the Project on schedule, the City would need to issue bonds (i.e. MICLA) in the early years of the project and be paid back by the federal and state funds in the later years of the project.

The federal guidelines allow the federal HBP grant, matched by Proposition 1B funds, to pay back the bonds proceeds as well as the issuance and interest costs.²

 $^{^2}$ States and public agencies can now receive Federal-aid reimbursements for a wide array of debt-related costs incurred in connection with an eligible debt financing instrument, such as a bond, note, certificate, mortgage, or lease, the proceeds of which are used to fund a project eligible for assistance under Title 23. The issuer may be a state, political subdivision, or a public authority.

The \$72.4 million the City will need in MICLA bonds is the gap between the required funding and the yearly reimbursement as follows and shown in Chart 4:

- The annual gaps in funding are projected to be \$13.4 million in 2011, \$1.4 million in 2012, \$30.6 million in 2014, \$18.5 in 2015 and \$8.5 million in 2016, for a total of \$72.4 million.
- The projected payback would be \$0.7 million in 2013, \$14 million in 2014, \$45.4 million in 2017 and \$12.2 million in 2018, for a total of \$72.4 million.

Chart 5 shows when the MICLA bonds would be used and the assumed interest costs that would be reimbursed. For this analysis, 5% interest costs, or a total of \$14 million, were conservatively assumed for MICLA bonds. The actual interest and issuance costs would be reimbursed by state (Prop. 1B) and federal (HBP) funds.

Ability to Accelerate Funds from Caltrans: Caltrans has restricted the funding each year to the amounts listed in Table 2. But, each year, the City has potential to request additional funds that other jurisdictions are unable to use. The overall state and federal funding for the 6th Street Viaduct project would not increase, but the amounts per year could be accelerated. If the City successfully petitioned and received these funds, then the City could potentially reduce the amount of MICLA funding it would need to borrow. The City will still need the authority for the \$72 million of MICLA bonds and will monitor the actual cash needs on a quarterly basis.

Monthly Invoice Reimbursement Delays: For the funds that will be available each year according to Caltrans, staff has conservatively assumed that the reimbursement of monthly invoices will be delayed by four months each during the Right-of-Way (ROW) phase and three months each during the Construction phase. The Public Works Trust Fund will be used, up to a maximum balance at any time of \$10 million, to cover any potential delays in invoice reimbursements.

Advanced Construction Authority (AC): Table 1 shows how all of the funding is authorized by Caltrans on a phase by phase (ROW, construction, etc.) basis. It also reflects how the 6^{th} Street Viaduct project is listed in the Federal Transportation Improvement Program (FTIP).

At the time of the authorization for each phase, Caltrans will allocate the first year's funding and then show the subsequent years' funding as "Advanced Construction Authority" or "AC". Caltrans then allocates funds on a year by year basis until all funds are allocated.

Advanced Construction Authority (AC) is a way for Caltrans to program the full, multiyear funding commitments for the project while allocating funds on a year to year basis. It does not

This change to the Federal-aid program was codified into permanent highway law as an amendment to Section 122 of Title 23 U.S.C. Bond-related costs now eligible for Federal-aid reimbursement include interest payments, retirement of principal, and any other cost incidental to the sale of an eligible bond issue.

The FHWA guidance states that the project must be approved as a Federal-aid debt-financed (bond, certificate, note, or other debt instrument) project in order to receive payments for eligible debt-related costs under section 122. With the approval of the 6^{th} St. Financial Plan, Caltrans will approve the project as a Federal-aid debt-financed project.

require more City MICLA funds nor does it change the funding plan in Table 2. This authority does allow the City to qualify for the reimbursement of any MICLA bond issuance and interest costs.

In the unlikely event that the state or federal government would no longer have a transportation funding program, then Caltrans could not allocate the future years' funding for the project. In that case, the City would have the option to defer or cancel the project.

Timeline

The Finance Plan, which includes the assumptions for financing, must be submitted to and accepted by Caltrans prior to the certification of the 6th Street Viaduet Project environmental document, anticipated in October 2010. The Draft Financial Plan has been submitted to Caltrans for their review and Caltrans has prepared a draft approval letter. The Caltrans approval letter will be finalized once the City approves the recommendations in this report for financing and Advanced Construction Authority.

Attachments:

Attachment A:

- Table 1, Project Funding Plan with Advanced Construction Authority by Phase
- Table 2, Summary of cash flow and financing needs costs and funding by fiscal year.
- Table 3, Right-of-Way financing needs
- Table 4, Construction financing needs

Attachment B:

6th Street Viaduct Seismic Improvement Project Fact Sheet

c: Councilmember Jose Huizar
A. Cubas / P. Habib - CD14
J. Koo / D. Weintraub - BOE
J. Gibson / P. Smith - CLA
M. Cardenas / L. Hancook - CAO

Chart 4: Annual Funding Shortfalls and Reimbursement Schedule

	A	ngal Fundi	ng Shortfall	s and Reimt	ursements	(\$ in 000's)		ا موجود معد شور از شده از موجود المشقر. موجود معد شور از شده معد معد المسلم المسل موجود المسلم ا	ا با استروان با مستورد . مربع من من مربع معرف مستور . مربع ماری با مورد موجود . مورد مورد مورد .
Fiscal Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	Total
Shortfalls	\$ (13,401)	\$ (1,401)		\$ (30,551)	\$ (18,503)	\$ (8,503)		A Hold A Lawrence A	\$ (72,359)
Reimbursements			\$ 766	\$ 14,036			\$ 65,346	\$ 12,211	\$ 72,359

Chart 5: Recommended City of LA Financing to Keep 6th Street Viaduct Project on Schedule

		Rec	omme	nded	City of	f LA Fii	ianc	ing by P	roje	ct Phase	e (\$ in 00	0's)					
Project Phase	2	010-11	201	1-12	201	(2-13	21	013-14	2	014-15	2015-2	16	2016-17	201	17-18		Total
ROW	1		1		1				Γ								
MICLA Bond Issue (July)	5	13,401												-		\$	13,401
Interest Costs		670		670		670		670		-		-		<u>.</u>	~	[2,680
MICLA Bond Issue (July)				1,401									6100				1,401
Interest Costs				70		70	<u> </u>	70		~		-		1		Í	210
Total Bond Proceeds-ROW		13,401		1,401		-		-		-		-			-		14,802
Total Interest Costs-ROW		670		740		740		740		~		-	-		-		2,890
Construction	1								[l.			
MICLA Bond Issue (July))	30,551						1		l	30,551
Interest Costs	1							1,528		1,528	1,	528	1,528		-		6,110
MICLA Bond Issue (July)	I				1					18,503							18,503
Interest Costs										925		925	925	<u> </u>	925	1	3,701
MICLA Bond Issue (July)											8,	503					8,503
Interest Costs	-								 			425	425	-	425		1,275
Total Bond Proceeds-CON	1			*		-		39,551		18,503	8	503	-		-		57,557
Total Interest Costs-CON		-		-		-	-	1,528		2,453	2,	878	2,878		1,350		11,086
ROW and Construction	1																
Total Bond Proceeds	\$	13,401	S	1,401	5	-	S	30,551	\$	18,503	S 8,	503	\$ -	l s	-	\$	72,359
Total Interest Costs	S	670	S	740	5	740	S	2,268	\$	2,453	S 2,	878	\$ 2,878	5	1,350	\$	13,977

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Table 1: Programmed Costs and Funding Sources

	<u> </u>							Fiscal Yea:									1	
Phase Summary	2034	7-88 & Prize		2088-03		2009-50		2010-11		2011-12		2012-13		2013-14		Beyond	<u> </u>	Total
9E	15	16,002,800	\$	9,258,355	\$	*	5	-	\$		\$	-	\$	-	Έ	-	\$	25,316,358
ROW		-		- 18-		•		84,723,295		•		-		~			1	84,723,895
Construction and CE		•-				+		~				-		249,286,063		-	<u> </u>	249,286,003
Total>	*	15,000,800	Ş	9,316,358	5	-	\$	84,723,355	5	-	\$	+	\$	249,285,003	\$		5	359,325,754
								Fiscal Year										
Fund Source Summary	200	17-03 & Prior		2998-99		2009-10		2010-11		2911-12		2012-13		2013-14		Beyond		Total
Fed \$	3	12,800,000	\$	7,453,895	5	(8,009,980)	\$	28,853,000	1	20,000,000	\$	20,000,000	\$	\$5,005,622	\$	170,692,893	ş	316,804,605
Local Match		3,224,230		1,263,274		(853,056)		7,126,561		(2,531,212)		(2,591,212)		32,172,532		(22,115/075)		4,210,271
. LSSRP Boad		-		-		-		2,591,212		2,591,212		2,591,212		8,422,165		22,115,975		37,310,878
LocalAC	[-		-		6,253,090		46,152,622	_	(20,000,000)		(20,000,000)	_	155,687,276		(176,692,695)		- 1
Totzi>	\$	15,060,000	\$	2,316,256	5		\$	84,723,395	\$	-	\$	+	\$	243,226,983	5	-	15	359,325,754
							Ĩ	Frace! Year										
PE Summary	201	17-08 S. Prior		2008-68		2069-50		2010-11		2014-12		2012-13		2013-54		Seyonz		Total
Fed \$	\$	12,890,000	\$	7,453,025	\$	(5,000,000)	\$	8,853,060									\$	21,105,085
Local Match		3,259,300		1,265,271		(2251,0996)												4,210,271
LSSRP Boad																		- 3
Local AC	<u> </u>				·····	6,253,000		(8,853,000)										
Total>	5	15,000,000	S	9,316,356	.5	-	5		\$		\$		\$	-		-	<u>L\$</u>	25,316,356
								Fiscal Year										1
ROW Summary	200	17-08 & Prior		2028-29		2005-10		2010-11		2011-12		2012-13		2013-14		Beyond		Total
Fed \$							\$	20,000,000	\$	20,006,008	\$	28,000,039	5	15,605,622			5	75,005,622
Local Match								7,126,561		(2,531,212)		(2,591,212)		(1,544,237)				- 5
LSSRP Bond	i.							2,531,212		2,591,212		2,591,212		1,944,137				9,717,773
Local AC	I						_	55,005,622		(28,600,690)		(20,600,800)		(15,005,622)			L	
Total>	5	-	5	-	5	-	<u>.</u> Ş	84,723,335	2	-	<u>s</u>	-	\$	-	<u> </u>	*	5	\$4,723,395
	<u> </u>						1	Fiscal Year										
Construction Summary	204	17-88 & Prior		2008-05		2009-10		2010-11		2011-12		2012-13		2013-14		Beyond		Total
Feds													\$	50,020,060	\$	\$79,592,298	\$	270,692,898
Local Match	l.													22,115,075		(22,115,075)	[- 1
LSSRP Bond	1													6,478,030		22 115,475		28,593,185
LocalAC														176,592,898		(170,692,858)	<u> </u>	
Total ->	S	-	\$	*	\$	-	\$	~	\$		\$		\$	249,235,003	\$		15	249,286,003

Local AC: Local Advanced Construction Andronia Local AC: Local Advanced Construction Andronia Data replicated from Caltrans summary of 20005-2013/14/Highway Bridge Program, dated 3/24/2010. This chart is the Caltrans Federal Transportation Leptowenert Program (FTIP) Esting for this project.

Attachment A

6th Street Viaduct Project Financial Charts

Table 2: 5th Street Visduct Project Cash Flow and Financing Requirements

				Fiscal Ye	21					·····		······
PHASE	2007-68 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	Total
PA/ED (Proj Approval and Envir Doc)	\$ 8,438,785	\$ 2,763,745	\$ 4,114,325	\$ -	5 -	\$ -	\$ -	\$~	\$ -	5 -	\$ -	\$ 15.316.356
Final Design (PS&E)		-	•	5,000,000	5,000,000	-	-	-	•	-	-	10,000,000
Subtotal, PA/ED and PS&E>	8,438,785	2763.245	4,114,325	5,000,000	5,500,000	~		-	-	-#	-	25,316,356
							· · · · · · · · · · · · · · · · · · ·					
ROW (Right of Way)	-	-	-	36,000,000	24,633,000	21.533.000	+	-	-	+	-	81,833,000
ROW Financing Costs	-	-	-	•	-		2,890,395	-	-	-	-	2,890,395
Subtatal, ROW>	-		*	36,000,000	24,800,000	21,513,000	2,890,395	-		*		84,723,395
CONSTRUCTION COST (CON)	<u> </u>											
Detour and Demo of Existing Viaduct	-	+	-		-	-	12.548,456	-	-	-	-	12,543,466
Reconstruction of Viaduct	-	-	•	-	-	-	70,000,000	70,000,000	60,608,000	10,536,790	-	210,506,290
CE (Construction Support)	-		-	-	-	-	4,502,000	5,600,200	5,000,000	645,030	-	15,145,000
Construction Financing Costs	-	-	•	-	-	.=		-		-	11,086,247	11,086,247
Subtotal, Construction and CE->	-		-	-	*	-	87,048,455	75.680,050	65,600,000	11,151,290	11,086,247	249,286,003
Total Project & Financing Costs	\$ 8,438,785	\$2,233,245	\$ 4,114,325	\$ 41,600,000	\$ 29,000,000	\$ 21,833,000	\$ 89, 935, 861	\$ 75,030,306	\$ 55,900,000	\$11,151,290	\$ 11,086,247	\$ 359,325,754
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FUNDING	2907-08 & Prior	2258-29	2005-10	2010-11	2051-12	2012-13	2513-14	2014-15	2015-15	2015-17	2017-18	Totai
Highway Bridge Program (HBP) - PA/ED/PS&E	\$ 6,751,025	52270,596	\$ 3,291,461	\$ 4,426,500	\$ 4,426,500	ş -	\$ -	\$ -	\$ -	\$ +	s -	\$ 21,105,085
Highway Bridge Program (HBP) - ROW	-	-	-	20,000,000	20,000,000	20,800,000	12,446,755	•	-	•	-	72,445,755
Highway Bridge Program (HBP) - Construction	-	-	-		-	•	50,000,000	53,833,900	50,800,008	50,000,000	10,878,244	210,878,244
Highway Bridge Program (HBP) - Financing Costs		-	-	-	•	-	2,558,867	• •	-	-	9,814,654	12,373,521
Subtotal, HBP Funds ->	6,751,828	2212595	3,291,461	24,426,500	24,426,500	20,899,090	65,005,622	50,000,000	50,000,000	55.997.000	20,632,898	316,804,605
Prop 18 Local Bridge Seismic Retrofit- ROW		*	-	2,598,870	2,525,870	2,558,870	1,845,504					9,642,115
Prop. 18 Local Bridge Seismic Retrofit-Const							6,241,300	6,497,175	6,497,175	6,457,175	1,352,811	27,055,643
Prop 18 Local Bridge Seismic Retrofit- Financing Costs	-	-	-	-	-	-	331,528	-	-	-	1,271,593	1,603,121
Subtotal, Prop 18 Funds>	-		*	2,598,870	2,598,879	2,598,870	8,418,339	£,497,175	6,437,175	6,437,175	2,504,404	38,310,878
					******					<u></u>		
Other State Funds	206,080		~	-	-	-	-	-	•	-	-	200,000
City Matching Funds	1,427,757	552,949	\$22,865	573,500	573,500	-	-		•	-	-	4,010,271
									· · · · · · · · · · · · · · · · · · ·			+
Total Funding	\$ 8,438,785	\$2,763,245	\$ 4,1\$4,325	\$ 27,598,870	\$ 27,553,870	\$ 22,598,870	\$ 73,423,961	\$ 56,497,175	\$ 55,497,175	\$ 55,497,175	\$ 23,297,302	\$ 359,325,754
Local Bonds	-	-	+	13,401,130	1,401.130	-	30,551,281	18,502,825	8,507,825	-	- 1	72,359,280
Payback of Local Bonds	-	-	-	-	-	765,870	14,035,390	~	-	45,345,885	12,211,055	72,259,200
Cumulative Balance	5 -	\$	\$ -	\$ 13,491,130	\$ 14,802,250	\$ 14,036,390	\$ 30,551,291	\$49,051,175	\$ 57,556,941	\$12,211,055	\$ 1	\$ 1
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Project Costs	8,438,785	2,762,345	4,174,326	41,660,000	29,000,000	21,233,000	87,048,466	75,000,000	65,000,000	11,151,290	-	345,349,112
Financing Costs-Interest Only*	-	-	-	-	-	*	2,290,395	-	-		11,086,247	13,976,642
Total Project & Financing Costs	5 8,438,785	52,763,245	\$ 4,114,326	\$ 41,800,000	5 29,000.000	5 21,833,000	\$ 85,938,861	\$ 75,680,000	\$ \$5,800,000	\$ 11,151,290	\$ 11,086,247	\$ 339,325,754
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FRAME - CONSTRUCTION & CE BURPORT

Table 4: 6th Shinet Vieduct Piloject Caeb Flow x Reinbuckenset Tamaround Scenaric: I-Honfr

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<u>Attachment B</u>

6th Street Vladuct Project Fact Sheet

City of Los Angeles 6th Street Viaduct Seismic Improvement Project

PROJECT LOCATION/DESCRIPTION

- Located in a highly urbanized area just east of Downtown Los Angeles.
- Spans (Project length approximately 1 mile)
 - Hollywood Freeway (US 101)
 - Los Angeles River
 - Union Pacific, Metrolink and future California High Speed Rail
 - Local streets



FUNDING IS CRITICAL FOR SEISMIC SAFETY

- · Viaduct was built in 1932, one of the oldest on system.
- Prop 1B project located in the highest population zone.
- Longest most complex right-of-way Prop 1B project.
- · One of the most seismic vulnerable not retrolitied or replaced.
 - 70% probability of failure for a design level earth quake within 50 years and the probability increases every year!
 - · Severe concrete deterioration from Alkali Silica Reactiv-Ity (ASR) continues to weaken the structurel
 - . Collapse due to seismic vulnerabilities or ASR deterioration will have a major impact on transportation corridors
- · Roadway geometric deficiencies contribute to on-going traffic accidents,

FUNDING SOURCE	TOTAL
Federal Highway Bridge Program (HBP) Funds*	\$316.7
Prop. 18 Local Bridge Seismic (LBSRA) Funds*	38.4
Other State Funds	6.2
City Matching Funds	4.0
PROJECT FUNDING TOTAL	\$359.3

* includes reinhursement of City financing costs

COMMITMENT OF FUNDING ENSURES SEISMIC SAFETY

- The project costs have increased by \$104.6 million
- Factors for cost increase:
 - · Public input on maintaining the signature nature of the existing bridge
 - Increased right-of-way needs

PROJECT SCHEDULE IS "COMPETING AGAINST TIME"

Construction Start Construction Completion

December 2013 December 2016





6th Street Viaduct Seismic Improvement Project

City of Los Angeles, Los Angeles County, California

DISTRICT 7 - Bridge Nos. 53C-1880 and 53-0595

Federal Project No.: BRLSZD 5006 (342-664)

INITIAL FINANCIAL PLAN

Prepared by the City of Los Angeles July 2010

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1. BACKGROUND

On December 8, 2005, the Federal Highway Administration (FHWA) issued a Memorandum *"Project Financial Plan Requirements under SAFETEA-LU"* which directed every state Department of Transportation (DOT) to prepare Project Financial Plans for projects between \$100 and \$500 million in accordance with the FHWA Financial Plan Guidance issued May 2000 and updated on January 2007.

This document will provide detailed construction and support cost, schedule and revenue projections for the \$359.3 million bridge viaduct project located in downtown Los Angeles.

Plan Update Schedule: The Initial Financial Plan for the Sixth Street Viaduct Seismic Improvement Project has been prepared in accordance with the FHWA guidance. The Final Financial Plan will be prepared prior to the request for federal construction funds. The Plan will be updated annually effective October 1, 2011 and every year thereafter and whenever there is a significant change to the project scope and/or budget.



Thomas Bros Map Los Angeles County Page 634, Grid H-6

Figure 1, Project Location Map

Adherence to Federal Financial Plan Guidance

This Plan has been prepared in accordance with the requirements of Section 106, Title 23, and the Initial Financial Plan guidance issued by the Federal Highway Administration. The plan provides detailed cost estimates to complete the project and the estimates of financial resources to be utilized to fully finance the project. The federal guidance Attachment C checklist is attached as Appendix C of this report.

The cost data in the Initial Financial Plan provide an accurate accounting of costs incurred to date and include a realistic estimate of future costs based on engineers' estimates and expected construction cost escalation factors. While the estimates of financial resources rely upon assumptions regarding future economic conditions and demographic variables, they represent realistic, estimates of available monies to fully fund the project.

We believe the Initial Financial Plan provides an accurate basis upon which to schedule and fund the 6th Street Seismic Safety Improvement Project. The City of Los Angeles will prepare a final Financial Plan in advance of the construction phase and will review and update the Financial Plan on an annual basis, beginning the year following the final Financial Plan.

To the best of our knowledge and belief, the Initial Financial Plan as submitted herewith, fairly and accurately presents the financial position of the 6th Street Seismic Safety Improvement Project cash flows and expected conditions for the project's life cycle. The financial forecasts in the Initial Financial Plan are based on our judgment of the expected project conditions and our expected course of action.

We believe that the assumptions underlying the Initial Financial Plan are reasonable and appropriate. Further, we have made available all significant information that we believe is relevant to the Initial Financial Plan and, to the best of our knowledge and belief, the documents and records supporting the assumptions are appropriate.

Project Description

The California Department of Transportation (Caltrans) and the City of Los Angeles (City) propose to undertake the replacement of the 6th Street Viaduct over the Los Angeles River (Bridge No. 53C-1880) and the 6th Street Overcrossing, which is a portion of the US 101 Hollywood Freeway (Bridge No. 53-0595).

The 6th Street Viaduct and 6th Street Overcrossing comprise a single structure that spans a portion of the Hollywood Freeway (US 101), the Los Angeles River, city streets, and Union Pacific and Metrolink railroad tracks. The structure is located in a highly urbanized area just east of Downtown Los Angeles and connects Downtown Los Angeles on the west side of the river with the Boyle Heights community on the east side of the river.

An approximate 3,264-ft-long segment of the viaduct is owned by the City, and the 235-ft-long portion overcrossing US 101 is owned by Caltrans.

Purpose and Need

The purpose of the proposed project is to:

- Preserve 6th Street as a viable east-west link between Boyle Heights and Downtown Los Angeles;
- Reduce vulnerability of the 6th Street Viaduct in major earthquake events; and
- Resolve design deficiencies of the 6th Street Viaduct.

The 6th Street Viaduct was built in 1932. It is one of the oldest bridge structures in the state and spans more than 3500 feet. It is one of the longest bridges on the Prop 1B Seismic Match list in the highest population zone.

The 6th Street Bridge is one of the most vulnerable, locally owned bridges in California. Not only is it listed on Caltrans' mandatory seismic retrofit list, analyses performed indicate that this bridge has a 70% probability of failure for a design level earthquake within the next 50 years and the probability increases every year.

Closure or collapse of this structure would have a major impact on transportation corridors.

The 6th Street Viaduct suffers from a condition known as ASR (Alkali Silica Reactivity) which is essentially a concrete "cancer" that over time weakens concrete's strength and limits the ability to retrofit the bridge to current standards. There are no known methods to reverse or stop the ASR attack to the existing structure. Laboratory testing indicates that deterioration due to ASR will continue, furthering the structure's vulnerability to collapse in a seismic event.

The city proposes to replace the structure to address the deficiencies stated above.

Project Milestone Dates

The following activities have been completed on this project:

- Seismic Strategy Study
- Materials Study to characterize the ASR
- Technical Studies in Support of the Environmental Document
- Alignment Alternative evaluation including screening study
- Alternative Bridge Type evaluation including screening study
- Community outreach activities
- Bridge Advance Planning Study
- Preliminary ROW Relocation Report
- Preliminary Geotechnical and Foundation Report
- Preliminary Hazardous Materials Study
- Preliminary Roadway Design
- Administrative Draft EIR/EIS document

The following are the project milestone dates based on design sequencing method of delivery:

0	Project Approval and Environmental Document (PA&ED)	Sept 2010
9	Completion of PS&E	Jul 2013
0	Right of Way Certification	Sep 2013
0	Ready to Advertise – Demolition and Bridge Construction	Oct 2013
0	Begin Construction - Demolition and Bridge Construction	Dec 2013
ø	End Construction	Dec 2016

2. COST ESTIMATE

This document represents the Initial Financial Plan for the Sixth Street Viaduct Project. Per FHWA guidance, this cost estimate is in the year of expenditure dollars that already takes inflation into account. The year of expenditure for this report is FY 2009, which is from July 1, 2008 to June 30, 2009. The cost estimate is based on Structures Advance Planning Studies that is 90% complete at the time of the cost estimate in July 2008. Right of way and construction have not taken place.

The cost estimates presented in this report are for present day costs (end of 2007) using 10% mobilization and 25% for construction contingencies. Right-of-way costs assume a 10% escalation and 20% contingency. Assuming that the project is approved for construction, the final budget capital costs should consider escalation. A common practice is to escalate the construction costs to midyear of construction. Figure 1 shows different constant escalation rates to a midyear of construction to 2013 (since adjusted to 2014). As illustrated in Figure 1, construction costs could escalate 23% - 68% at rates of 3.5% - 9% per year. Escalation of costs for highway construction in California as recorded by the California Department of Transportation (Caltrans) shows an escalation of 27% between 1995 and 2000 (5% average/year) and 69% between 2000 and 2007 (8% average/year). This averages 7% each year over the 12 year period.

Figure 2 shows different variable escalation rates assuming median, lower 10% and upper 10% escalation rates between 2007 and 2015. Also shown in this table is a 6% constant escalation rate over the same period. Attention should be given to the midyear of construction cumulative escalation figures given a 142% (constant 6%), 131% (median), 111% (lower) and 164% (upper).

Based upon the Caltrans historical construction cost data, it is recommended to assume a total escalation increase of 42% for construction costs to the mid-point of construction.

The total expected costs including escalation ranges from \$275,601,000 for Bridge Concept 4 – Alignment 3A to \$362,009,000 for Bridge Concept 5 – Alignment 3B. The cost used for this Financial Plan is \$359.3 million, including bond interest costs of \$14.0 million.



Figure 2, Percent Increase From 2007

	· · · · · · · · · · · · · · · · · · ·	early Escal	lation Rate		Cumulative Escalation Rate From End of 2007							
Үеаг	Constant Escalation	Median	Lower 10% Limit	Upper 10% Limit	Constant Escalation	Median Escalation	Lower Esclation	Upper Esclation				
2007	6.00%	5.20%	2.80%	8.50%	6.00%	5.20%	2.80%	8.50%				
2008	6.00%	5.20%	2.80%	8.50%	112.36%	110.67%	105.68%	117.72%				
2009	6.00%	4.90%	2.20%	8.60%	119.10%	116.09%	108.00%	127.85%				
2010	6.00%	4.50%	1.60%	8.60%	126.25%	121.32%	109.73%	138.84%				
2011	6.00%	4.20%	1.00%	8.70%	133.82%	126.41%	110.83%	150.92%				
2012	6.00%	3.90%	0.40%	8.80%	142%	131%	111%	164%				
2013	6.00%	3.50%	-0.20%	8.80%	150.36%	135.94%	111.05%	178.65%				
2014	6.00%	3.20%	-0.80%	8.90%	159.38%	140.29%	110.16%	194.55%				
2015	6.00%	2.80%	-1.40%	8.90%	168.95%	144.22%	108.62%	211.87%				

Figure 3, Yearly/Cumulative Escalation Rate From 2007

Cost Estimate by Construction Segment

Construction reporting will be identified for the major elements of construction work, including frame and river spans.

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Project Construction Type

Design/Bid/Build (DBB) is proposed for this project as it will protect the currently planned funding. The planned funding sources for this project are;

•	Federal Highway Bridge Program (HBP) Funds	\$304.3 million
0	Proposition 1B Bridge Seismic (LBSRA) Funds	\$ 36.8 million
	City Matching Funds	\$ 4.0 million
0	Other State Funds	\$ 0.2 million
0	Bond Financing (HBP/Prop 1B) Funds	<u> \$ 14.0 million</u>
	Total	\$359.3 million

By using a conventional Design-Bid-Build (DBB) approach, the earliest that construction could occur is December 2013. This schedule is driven by the following constraints:

- Historic structure, requiring long environmental documentation process
- Right-of-way impacts. ROW acquisition cannot begin until ROD is signed
- Railroad (RR) agreement needs to be in place prior to demolition
- Utility coordination and agreement

Construction Packages for the 6th St Bridge

For this project, the City is considering one bid package for demolition and construction. An early contract may be let for local roadway improvements, necessary for the detour to take place prior to the demolition and for relocating utilities. A detailed breakdown of the preconstruction activities as well as each of the phases is described below.

Alternative Alignments

As part of the on-going preliminary engineering effort, several different roadway alignments and structure types are being investigated for the proposed replacement structure. Each combination of roadway alignment and structure type has a different project cost and schedule due to varying structure, roadway, utility, right-of-way (ROW), and other considerations. For the purposes of this proposal, a representative alternative, Corridor B, bridge type 4A, which includes Alternative 3B4, including B modified", is selected. This alternative uses alignment "3B Modified" and structural alternative #4 (2 span extra-dosed concrete bridge over the LA River, concrete box girder approach spans). Other alternatives will have similar design sequencing considerations.

Preliminary Engineering/Environmental (PE) Activities:

- PE proceeds to prepare alternatives so that a preferred alternative can be selected in September 2009. Environmental documentation proceeds toward a ROD in September 2010.
- PS&E preparation begins shortly after the Record of Decision, being September, 2010.
 PS&E would be completed by July, 2013 and final bid documents, permits and right of way clearances completed the end of September 2013.
- Utilizing Final PS&E, the construction bid package would be advertised in October, 2013, with construction award in December, 2013.

ROW Activities:

 ROW acquisition work commences after ROD. RR agreements in place and utility coordination complete by September 2013.

Construction Activities:

- Contractor mobilization and demolition of existing viaduct.
- Construction of viaduct to be phased with demolition operations.

Cost Estimate by Major Project Element

 Table 1 shows the current cost estimate by major element of the project. The major elements are comprised of:

- PA&ED: preliminary design and preparation of project report and environmental document.
- PS&E and ROW: preparation of plans, specifications and estimate, as well as Caltrans services to secure required right of way. Total costs for Caltrans, the City of Los Angeles and the Consultant Design Team are included.
- Construction Support: construction services, including Caltrans construction contract administration and inspection, and City of Los Angeles / Consultant Team involvement during construction.
- *Right of Way:* capital costs to secure the necessary ROW including relocation.
- Construction: detour and demolition of existing viaduct and reconstruction of viaduct.

PROJECT PHASE	co	ST (escalated)
PA & ED (Project Approval and Environmental Doc)	\$	15,316,356
Final Design (Plans, Spec. & Estimates)		10,000,000
ROW (Right of Way)	-	81,833,000
Financing Costs		2,890,395
Detour and Demo of Existing Viaduct		12,548,466
Reconstruction of Viaduct		210,506,290
CE (Construction Support)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15,145,000
Financing Costs		11,086,247
Total Project Cost	\$	359,325,754

TABLE 1 – ESTIMATED COSTS BY MAJOR PROJECT ELEMENT

3. IMPLEMENTATION PLAN

Figure 4 identifies the permits, reviews and approvals that would be required for project construction

Figure 5 shows the project timeline. As of January 2009, the PA&ED phase is approximately 80% complete and the PS&E phase has not begun. All design work for the various construction segments is progressing on the same schedule.

Tables 2 and 3 show the actual expenditures through January 2009, and the budgeted expenditures, by project phase and fund source, respectively, for the remainder of the project through construction completion in 2016. Future Financial Plans will compare expenditures to this baseline projection of project costs. The project continues to make substantial progress and construction is expected to begin December 2013.

Agency	Permit/Approval
U.S. Army Corps of Engineers (USACE)	Section 404 Permit for possible discharge of dredged or fill material into the Los Angeles River
State Historic Preservation Officer (SHPO)	Section 106 consultation and agreement document to resolve the adverse effect to the historic 6^{th} Street Viaduct
Los Angeles Regional Water Quality Control Board (RWQCB)	Section 401 Water Quality Certification for work in the Los Angeles River Channel
RWQCB	Groundwater Dewatering Permit for discharges of groundwater from construction and project dewatering to surface waters in the watersheds of Los Angeles
California Department of Fish and Game (CDFG)	Section 1602 Agreement for Streambed Alteration
California Public Utilities Commission (PUC) Rail Crossing Engineering Section (RCES)	Rail crossing construction or alteration authorization
Caltrans	Encroachment Permit
All railroad agencies owning and operating railroad tracks along both sides of the Los Angeles River	Railroad Maintenance Agreement for work within railroad ROW

Figure 4, Agency / Permit / Approval

Figure 5, Project Timeline (Calendar Year)

Phase and Completion Dates	2009	2010	2011	2012	2013	2014	2015	2016
Record of Decision (Oct-2010)								
ROW Acquisition (Oct-2013)								
Final Design (Jul-2013)								
Advertise/Award (October 2013)								
Mob/Detour/Demo Const (Const-Dec-2016)								

4. PROJECT FINANCING AND REVENUES

Overall Financial Plan

Based on the cost estimate prepared in July, 2008, the mid-point construction duration (FY 2011-2017) cost for the project will be in the range of \$276 - \$362 million. As stated above, the project team determined to use the total project costs of \$345.3 million, plus \$14 million in bond interest costs, for programming purposes, for a total of \$359.3 million. The project is fully funded for this amount using local regional, state and federal funds, plus bonds required for cash flow needs which will be repaid by HBP funds matched by Proposition 1B funds. The funding sources and amounts are shown in Figure 6 below. Detailed charts are included in Appendix A.



Figure 6, Funding Sources In \$ Millions

Description of Funding Sources

The funding sources identified for this project include:

<u>Highway Bridge Program (HBP) funds</u> – These are federal funds that are apportioned by formula to the states. Caltrans then programs these funds to the various bridge projects in the state. The City of Los Angeles has received programmed approval from Caltrans for approximately \$304.5 million in HBP funds plus \$13.2 million for reimbursement of financing costs, for a total HBP programming commitment of \$316.8 million. The City will work with Caltrans to identify additional HBP funds available each year.

In some years, Advanced Construction (AC) Authority may have to be used if HBP funds are over-committed within the state. In some years, the City may have to finance the cash flow if the reimbursements of AC for HBP funds are not available as programmed.

Proposition 1B Local Bridge Seismic Retrofit Account (LBSRA) – These funds are part of the \$20 billion Proposition 1B passed by California voters in November 2006. The LBSRA account provides \$36.7 million for the 11.53 percent required match for the federal HBP Fund for the Local Seismic Bridge Retrofit Program projects, plus \$1.6 million for financing costs, for a total LBSRA amount of \$38.3 million. Prop 1B funds currently programmed are obligated on a first-come, first-serve basis.

The California Transportation Commission (CTC) approved the Caltrans March 9, 2007, list of eligible Proposition 1B LBSRA projects, and the 6th Street project was included on that list. In a June 19, 2008, letter, Caltrans notified Gary Moore, City Engineer, City of Los Angeles, that the 6th Street project will receive Proposition 1B LBSRA matching funds.

In some years, the City may have to finance the cash flow if the Proposition 1B funds are not available as programmed.

<u>Other State Funds</u> – Previous funding included \$200,000 of state funds (primarily state gas tax funds).

<u>City Matching Funds</u> – These funds, totaling \$4.0 million, are composed of Proposition C 25percent Local Return funds, which are a component of the Los Angeles County Proposition C half-cent sales tax measure allocated by formula to the cities within Los Angeles County. The other City matching fund source is Proposition G, the City of Los Angeles' seismic bond funds.

Financing – There are two types of potential funding delays to the Project:

- 1. \$72. 4 million of cumulative annual federal and state funding allocation shortfalls; and
- -2-\$16:1 million of cumulative annual shortfalls of potential invoice reimbursement delays.

<u>Federal and State Funding Shortfalls</u>: Caltrans has agreed to program full funding for the 6th Street Viaduct Project, but stretched out over a longer time period. This allocation plan does not fit the Project's cash flow needs but fully funds the project over time. In order to keep the Project on schedule, the City will issue bonds, such as MICLA bonds, in the early years of the project and be paid back by the federal and state funds in the later years of the project. These shortfalls total \$72.4 million over the life of the project and require up to \$72.4 million of MICLA bonds. The interest costs for these bonds, \$14 million, have been added to the project costs. <u>Monthly Invoice Reimbursement Delays</u>: For the funds that will be available each year according to Caltrans, staff has conservatively assumed that the reimbursement of monthly invoices will be delayed by four months each during the Right-of-Way (ROW) phase and three months each during the Construction phase. These potential shortfalls total \$16.1 million over the life of the project and require up to \$16.1 million of additional MICLA bonds. Although the interest costs are not added to the project costs at this time, those interest and issuance costs will be eligible for reimbursement with state and federal funds.

<u>Issuance and Interest Costs Reimbursement</u>: Federal statute and guidelines allow the federal funds to pay back the bonds proceeds as well as the issuance and interest costs for both the longer term year to year shortfalls as well as the shorter term month to month shortfalls.¹

The FHWA guidance states that the project must be approved as a Federal-aid debt-financed (bond, certificate, note, or other debt instrument) project in order to receive payments for eligible debt-related costs under section 122. With the approval of the 6th St. Financial Plan, Caltrans will approve the project as a Federal-aid debt-financed project and both the longer term and shorter term MICLA bond issuance and interest costs will be eligible for reimbursement.

<u>Approval of Local AC</u>: In order for the Project to move forward, Caltrans has requested that the City's governing body approve the use of local AC and the use of a funding source, such as MICLA, as a cash flow source for the yearly project expenses that exceed the federal and state reimbursements. The City would assume responsibility for the project costs until all yearly state and federal allocations have been disbursed. As the project progresses, project budget authority responsibility shifts from the City to the federal funding until the federal and state monies fully fund the project. The City will approve the budget authority for Local AC in late July 2010 and the approval document will be forwarded to Caltrans.

<u>State Garvee Bonds not Feasible at this time</u>: In most cases, AC is undertaken by the State (Caltrans), where it begins a project even if the project does not have sufficient federal-aid obligation authority to cover the federal share of project costs. Caltrans has done this primarily through the issuance of Garvee bonds, which are leveraged by future federal formula funds, such as Highway Bridge Program funds. The use of Garvee bonds allows the cost of the project to be spread over the useful life of the project rather than just the construction time period. Although the City is eligible to participate in Garvee bond financing, currently, there is no State capacity for these bonds. The City will continue to monitor the feasibility of this option, should Garvee bonds become available for the construction phase of the project.

¹ States and public agencies can now receive Federal-aid reimbursements for a wide array of debtrelated costs incurred in connection with an eligible debt financing instrument, such as a bond, note, certificate, mortgage, or lease, the proceeds of which are used to fund a project eligible for assistance under Title 23. The issuer may be a state, political subdivision, or a public authority.

This change to the Federal-aid program was codified into permanent highway law as an amendment to Section 122 of Title 23 U.S.C. Bond-related costs now eligible for Federal-aid reimbursement include interest payments, retirement of principal, and any other cost incidental to the sale of an eligible bond issue.

The FHWA guidance states that the project must be approved as a Federal-aid debt-financed (bond, certificate, note, or other debt instrument) project in order to receive payments for eligible debt-related costs under section 122. With the approval of the 6th St. Financial Plan, Caltrans will approve the project as a Federal-aid debt-financed project.

5. CASH FLOW AND CONTINGENCY FUND

A project cash flow summary, depicting annual and cumulative costs, is shown in Figure 7. This cash flow includes a 25% contingency.

The cash flow Tables 2 – 5D are included in Appendix A. Table 2 shows the project expenditures by project phase by year. Table 3 shows the funding sources by project phase. Table 4 shows the programmed costs and funding sources, including Advanced Construction Authority by project phase. Table 4 is consistent with the Federal Transportation Improvement Program (FTIP) project listing.

Table 5 is the cash flow chart of revenues and expenditures and illustrates the bond financing required to fund the cash flow needs in the 2011 - 2018 period. These bonds are required because of the delay in the HBP and Proposition 1B funds available during the ROW and Construction phases.

Tables 5A through 5D illustrate the cash flow funding and reimbursements for the PA/ED, Final Design, ROW and Construction phases, respectively. The City will sell local bonds and use its Public Works Trust Fund as a cash reserve to keep the project on schedule.



Figure 7, Annual and Cumulative Funding Requirements In \$ Millions

6. RISK IDENTIFICATION AND MITIGATION FACTORS

The City of LA has identified the risks to project completion and sufficiency of revenues in its Risk Management Plan for the 6th Street Viaduct Seismic Improvement Project. The risk mitigation strategies have been identified and include actions that will be taken to address revenue shortfalls including any reserves or other methods of funding which could be applied to this project. The Risk Management Plan also discusses proposed cost containment approaches (such as design sequencing and other ways to accelerate construction.

The following Figures 8 and 9 summarize the major risk types studied and a summary of the strategies. Appendix B includes a matrix of the detailed risk analysis summary of the Risk Management Plan document for the Sixth Street Viaduct Seismic Improvement Project.



Figure 8, Major Risk Types (\$M)

Figure 9, Major Risk Strategies (\$M)



July 16, 2010

Independent Verification of Cost Estimate

The City of Los Angeles Bureau of Engineering authorized LAN Engineering (AECOM) to provide an independent verification of estimate of costs associated with the replacement alternative being considered for the 6th Street Viaduct Seismic Improvement Project.

The report² discusses and documents the methodologies and resources used by LAN Engineering to produce an Independent Cost Estimate for 6th St. Viaduct Bridge Replacement project. The report considered the construction cost associated with bridge and roadway improvements, but did not address right-of- way cost. The report used 10% mobilization, 25% contingencies, but did not apply escalation costs to keep present day cost consistent with the design team. The Financial Plan used 42% escalation applied to the total estimated cost.

The independent estimate of unit price & quantity for the structures came out to be within 2 to 13 percent of the designer estimate and are summarized in Table 1 below. The cost estimate study concluded that the designer's estimate is reasonably accurate and reliable within an acceptable range of accuracy.

Scope and Summary of Independent Verification of Cost Estimates

The scope of work of this cost estimate study was to independently develop unit prices and generate quantities for the given list of bid items and preliminary plans (15% complete) for Bridge Concepts 1A, 2, and 4A. The list of items and preliminary plans were provided by the designers. The scope of work was limited to these three bridge concepts, being those generally preferred by the project stakeholders.

A summary of the estimates made by the designers and independent check is shown in Figure 10. Bridge and Roadway Construction Cost Estimates were developed for the Bridge Replacement Concept Designs shown in Figure 11.

Summary of Estimator	Structural Cost	Structural Cost	Structural Cost	Roadway Cost
Summary of Estimates	Concept 1A	Concept 2	Concept 4A	
Designer's Estimate	\$161,791,000	\$96,132,000	\$103,799,000	\$43,460,000
Independent Estimate (Unit Prices)	\$168,335,000	\$90,076,000	\$96,851,000	\$44,976,000
Independent Estimate (Unit Prices and Quantities)	\$157,948,000	\$107,969,000	\$96,153,000	n/a

Figure	10,	Independent	Verification	of Costs	Summary (\$'s)
	· · · ,					

² "City of Los Angeles, Independent Cost Estimating Contract, Task Order No. 1, Independent Cost Estimate Report, 6th Street Viaduct Seismic Improvements", by LAN Engineering Corporation, October 2009.



Bridge Concept No. 1A: Replica of existing bridge (architecture and span lengths) from abutment to abutment



Bridge Concept No. 2 : CIP Box Girder for Main Span (2 spans) & Approach spans with Steel Tied Arch Pedestrian Ways for main spans



Bridge Concept No. 4A: Dual Pylon Extradosed Box Girder for Main Span (4 spans) with CIP Box Girders for Approach spans

City of Los Angeles

APPENDIX A - FINANCIAL CHARTS

6TH STREET VIADUCT SEISMIC IMPROVEMENT PROJECT

July 16, 2010

City of Los Angeles

and the second		·····			Fisca	l Year								
FUND SOURCES	2007-08 & Pri	or	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18		Total
Highway Bridge Program (HBP) - PE/ED/PS&E	\$ 6,751,0	28 \$	2,210,596	\$ 3,291,461	\$ 4,426,500	\$ 4,426,500	s _ [\$ -	s -	ş -	\$-	\$ -	\$	21,106,085
Highway Bridge Program (HBP) - ROW		·	-		20,000,000	20,000,000	20,000,000	15,005,622	- 	-	-			75,005,622
Highway Bridge Program (HBP) - Construction			-	<u> </u>	-	-	- !	50,000,000	50,000,000	50,000,000	50,000,000	20,692,898		220,692,898
Subtotal, HBP Funds>	6,751,0	28	2,210,596	3,291,461	24,426,500	24,426,500	20,000,000	65,005,622	50,000,000	50,000,000	50,000,000	20,692,898		316,804,605
Prop 19 Local Reides Saissis Patrofit POW & Coast					2 599 970	1 500 670	0 E09 970	6 44 9 2 3 6	Ê 407 17E	C 407 67E	ê <i>4</i> 07 17E	2 604 404		20 240 070
Subtotal, Prop 1B Funds>				-	2,598,870	2,598,870	2,598,870	8,418,338	6,497,175	6,497,175	6,497,175	2,604,404		38,310,878
City Matching Funds	1,487,7	57	552,649	822,865	573,500	573,500		_		-		-		4,010,271
			1				;			ļ		:		<u> </u>
Total Funding	\$ 8,238,7	85 \$	2,763,245	\$ 4,114,326	\$ 27,598,870	\$ 27,598,870	\$ 22,598,870	\$ 73,423,960	\$ 56,497,175	\$ 56,497,175	\$ 56,497,175	\$ 23,297,302	<u>_</u>	359,125,754
Local Bonds			•		13,401,130	1,401,130	•	30,551,291	18,502,825	8,502,825	_	<u>.</u>		72,359,200
Payback of Local Bonds		•••••	-				765,870	14,036,390			45,345,885	12,211,055		72,359,200
Cumulative Balance	\$	<u>\$</u>	-	5	\$ 13,401,130	\$ 14,802,260	\$ 14,036,390	\$ 30,551,291	\$ 49,054,116	\$ 57,556,941	\$ 12,211,056	\$ 1	\$	1
Project Costs	8,438,7	85	2,763,245	4,114,326	41,000,000	29,000,000	21,833,000	87,048,466	75,000,000	65,000,000	11,151,290	•		345,349,112
Financing Costs-Interest Only*			-	•	-	-	-	2,890,395	-	-	-	11,086,247		13,976,642
Tetal Distant a Mission of A	¢ 0.430 5	00 0	2 762 246	4 4 4 4 4 206	¢ 41 000 000	¢ 20 000 000	\$ 21 832 000	¢ 00.020.001	¢ 75 000 000	E	A 11 1E1 200	C 44 000 047		350 335 75/

TABLE 2 - PROJECT EXPENDITURES, BY PROJECT PHASE

July 16, 2010

E Activity

Funding Courses	Activity											
Funding Source	PA/ED/PS&E	ROW	CON & CE	Financing	Total							
Highway Bridge Program (HBP) - PA/ED/PS&E	\$ 21,106,085				\$ 21,106,085							
Highway Bridge Program (HBP) - ROW		72,446,755			72,446,755							
Highway Bridge Program (HBP) - Construction & CE			210,878,244		210,878,244							
Highway Bridge Program (HBP) - Financing Costs				12,373,521	12,373,521							
Prop 1B Local Bridge Seismic Retrofit- ROW & Const		9,386,245	27,321,512		36,707,757							
Prop 1B Local Bridge Seismic Retrofit- Financing Costs				1,603,121	1,603,121							
Other State funds	200,000		/		200,000							
City Matching	4,010,271				4,010,271							
Total>	\$ 25,316,356	\$ 81,833,000	\$ 238,199,756	\$13,976,642	\$ 359,325,754							

TABLE 3 - FUNDING SOURCE BY PROJECT PHASE

							F	Fiscal Year							 	Ĺ	
Phase Summary	20	07-08 & Prior		2008-09		2009-10		2010-11		2011-12		2012-13		2013-14	Beyond		Total
PE	\$	16,000,000	\$	9,316,356	\$	-	\$	-	\$	-	\$	-	\$	-	\$	\$	25,316,356
ROW		-	1	-		-		84,723,395		•		-		-	 -		84,723,395
Construction and CE		-				-		-		-		-		249,286,003	 -		249,286,003
Total>	\$	16,000,000	\$	9,316,356	\$	-	\$	84,723,395	\$	-	\$	-	\$	249,286,003	\$ -	\$	359,325,754
					-		F	Fiscal Year	=								
Fund Source Summary	20	007-08 & Prio <u>r</u>	an a	2008-09		200 <u>9-10</u>	t a fan fan fe fan	2010-11		2011-12		2012- <u>13</u>		2013-14	Beyond		Total
Fed \$	\$	12,800,000	\$	7,453,085	\$	(8,000,000)	\$	28,853,000	\$	20,000,000	\$	20,000,000	\$	65,005,622	\$ 170,692,898	\$	316,804,605
Local Match	I	3,200,000		1,863,271		(853,000)		7,126,561		(2,591,212)		(2,591,212)		20,170,938	(22,115,075)		4,210,271
LSSRP Bond	.			-		-		2,591,212		2,591,212		2,591,212		8,422,167	 22,115,075		38,310,878
Local AC		-		-		8,853,000		46,152,622		(20,000,000)		(20,000,000)		155,687,276	(170,692,898)		-
	\$	16,000,000	\$	9,316,356	\$	-	\$	84,723,395	\$	-	\$	-	\$	249,286,003	\$ -	\$	359,325,754
							F	iscal Year									
PE Summary	20	007-08 & Prior		2008-09		2009-10		2010-11		2011-12		2012-13		2013-14	Beyond		Total
Fed \$	\$	12,800,000	\$	7,453,085	\$	(8,000,000)	\$	8,853,000	Ī							\$	21,106,085
Local Match		3,200,000		1,863,271		(853,000)									 		4,210,271
LSSRP Bond											-						-
Local AC						8,853,000		(8,853,000)									_
	\$	16,000,000	\$	9,316,356	\$	-	\$	-	\$		\$	-	\$		\$ 	\$	25,316,356
							F	⁼iscal Year									
ROW Summary	20	007-08 & Prior		2008-09		2009-10		2010-11		2011-12		2012-13		2013-14	Beyond		Total
Fed \$							\$	20,000,000	\$	20,000,000	\$	20,000,000	\$	15,005,622		\$	75,005,622
Local Match								7,126,561		(2,591,212)		(2,591,212)		(1,944,137)			-
LSSRP Bond	<u> </u>						ļ,	2,591,212		2,591,212		2,591,212		1,944,137			9,717,773
Local AC			-		;		1	55,005,622	<u> </u>	(20,000,000)		(20,000,000)		(15,005,622)	 		-
Total>	\$		\$	<u>-</u>	\$	-	\$	84,723,395	\$	-	\$		\$	-	\$ 	\$	84,723,395
							F	iscal Year					~~~~~			200 2007	
Construction Summary	20	007-08 & Prio <u>r</u>		2008-09		2009-10		2010-11		2011-12		2012-13		2013-14	Beyond		Total
Fed \$			1										\$	50,000,000	\$ 170,692,898	\$	220,692,898
Local Match]								1			22,115,075	 (22,115,075)		-
LSSRP Bond							1		 					6,478,030	22,115,075		28,593,105
Local AC			1		-								:	170,692,898	(170,692,898)		-
Total>	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	249,286,003	\$ -	\$	249,286,003

TABLE 4 - PROGRAMMED COSTS AND FUNDING SOURCES

July 16, 2010

Fiscal Year PHASE 2007-08 & Prior 2008-09 2009-10 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 Total 2010-11 PA/ED (Proj Approval and Envir Doc) 8,438,785 4,114,326 \$ 15,316,356 \$ \$2.763.245 \$ \$ \$ \$ Final Design (PS&E) 10,000,000 5,000,000 5,000,000 Subtotal, PA/ED and PS&E ------8.438.785 5,000,000 25,316,356 2,763,245 4,114,326 5,000,000 -24,000,000 21,833,000 ROW (Right of Way) 36,000,000 81,833,000 --ROW Financing Costs 2,890,395 2,890,395 36,000,000 24,000,000 2,890,395 84,723,395 21,833,000 -..... CONSTRUCTION COST (CON) Detour and Demo of Existing Viaduct 12,548,466 12,548,466 ---Reconstruction of Viaduct 70,000,000 70,000,000 60,000,000 10,506,290 210,506,290 --CE (Construction Support) -4,500,000 5,000,000 5,000,000 645,000 15,145,000 Construction Financing Costs 11,086,247 . -11.086.247 87,048,466 75,000,000 65,000,000 11,151,290 249,286,003 Subtotal, Construction and CE->> --11,086,247 ---. Total Project & Financing Costs 8,438,785 \$2,763,245 \$ 4,114,326 \$41,000,000 \$29,000,000 \$21,833,000 \$89,938,861 \$75,000,000 \$65,000,000 \$11,151,290 \$11,086,247 359,325,754 \$ Fiscal Year 2007-08 & Prior FUNDING 2008-09 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 Total Highway Bridge Program (HBP) - PA/ED/PS&E 6,751,028 \$2,210,596 \$ 3,291,461 \$ 4,426,500 \$ 4,426,500 \$ 21,106,085 \$. \$ Ś \$ 20,000,000 Highway Bridge Program (HBP) - ROW 12,446,755 20,000,000 20,000,000 72,446,755 210,878,244 Highway Bridge Program (HBP) - Construction 50,000,000 50,000,000 50,000,000 50,000,000 10,878,244 -Highway Bridge Program (HBP) - Financing Costs 2.558,867 9,814,654 12.373,521 Subtotal, HBP Funds ---> 6,751,028 2.210.596 3,291,461 24,426,500 24,426,500 20,000,000 65,005,622 50,000,000 50,000,000 50,000,000 20,692,898 316.804.605 Prop 1B Local Bridge Seismic Retrofit- ROW & Const 2.598,870 2,598,870 2.598,870 8.086.810 6,497,175 6,497,175 6,497,175 1.332.811 36.707.757 Prop 1B Local Bridge Seismic Retrofit- Financing Costs 331,528 1,271,593 1,603,121 Subtotal, Prop 1B Funds ---> 2.598.870 2.598.870 2,598,870 8,418,338 6.497.175 6,497,175 6.497.175 2.604.404 38,310.878 Ξ. Other State Funds 200,000 200,000 City Matching Funds 1,487,757 573.500 552,649 822.865 573,500 -. . 4,010,271 -Total Funding 8,438,785 \$2,763,245 \$ 4,114,326 \$27,598,870 \$27,598,870 \$22,598,870 \$73,423,960 \$56,497,175 \$56,497,175 \$56,497,175 \$23,297,302 \$ 359,325,754 ŝ Local Bonds 13,401,130 1,401,130 30,551,291 18,502,825 8,502,825 72,359,200 Payback of Local Bonds 765,870 14,036,390 45,345,885 12,211.055 72,359,200 . -. Cumulative Balance \$. s \$13.401.130 \$14.802.260 \$14.036.390 \$30.551.291 \$49.054.116 \$57.556.941 \$12.211.056 \$ 1 \$. Project Costs 8,438,785 2,763,245 4,114,326 41,000,000 29,000,000 21.833.000 87,048,466 75,000,000 65,000,000 11.151.290 345.349.112 Financing Costs-Interest Only* 2,890,395 11,086,247 13,976,642 Total Project & Financing Costs 8,438,785 \$2,763,245 \$ 4,114,326 \$41,000,000 \$29,000,000 \$21,833,000 \$89,938,861 \$75,000,000 \$65,000,000 \$11,151,290 \$11,086,247 \$ 359,325,754

TABLE 5 - CASH FLOW FINANCING: ALL PHASES

* Financing costs (interest and issuance costs) from local bonds/financing will be reimbursed by HBP funds, matched by Prop. 1B funds; assumes 5% APR (issuance costs not calculated but actual costs would be reimbursed).

July 16, 2010

City of Los Angeles

Costs - PA/ED Fiscal Year 2007-08 & Prior PHASE 2008-09 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 Total PA/ED (Proj Approval and Envir Doc) 8,438,785 \$ 2,763,245 \$ 4,114,326 \$15,316,356 ŝ Final Design (PS&E) Subtotal, PA/ED and PS&E ---> 8,438,785 2,763,245 4,114,326 15,316,356 ---~ ---ROW (Right of Way) -Subtotal, ROW ---> . . -. CONSTRUCTION COST (CON) Detour and Demo of Existing Viaduct -Reconstruction of Viaduct -Subtotal, Construction ---> ------CE (Construction Support) Subtotal, Construction and CE--> Total Project Costs ŝ 8,438,785 \$ 2,763,245 \$ 4,114,326 \$ - \$. \$ \$15,316,356 - \$ \$ 1 \$ \$ \$. --. -Funding Highway Bridge Program (HBP) - PA/ED/PS&E 6,751,028 \$ 2,210,596 \$ 3,291,461 \$12,253,085 \$ \$ -\$ Highway Bridge Program (HBP) - ROW Highway Bridge Program (HBP) - Construction Subtotal, HBP Funds ---> \$ 6,751,028 \$ 2,210,596 \$ 3,291,461 \$ \$ \$ \$ \$\$ \$ \$ \$12,253,085 \$ -. -Prop 1B Local Bridge Seismic Retrofit ---- 3 -Other State Funds 200,000 200,000 City Matching Funds 1,487,757 822,865 552,649 2,863,271 - 1 . . Total Funding \$ 8,438,785 \$ 2,763,245 \$ 4,114,326 \$ - \$ \$15,316,356 - \$ - \$ - \$ - \$ - \$ - \$ -Subtotal Balance - need to finance ŝ \$ \$ s -\$ -\$ ---\$ - \$ --\$ \$ \$ \$

TABLE 5A - CASH FLOW FINANCING: PA-ED PHASE

July 16, 2010

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City of Los Angeles

City of Los Angeles

Costs - Final Design]						1	"I "fildliched foot ood ood oo o				
				Fiscal Yea	tr							1
PHASE	2007-08 & Prior	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	Total
PA/ED (Proj Approval and Envir Doc)					1	1			1			\$ -
Final Design (PS&E)				5,000,000	\$ 5,000,000							10,000,000
Subtotal, PA/ED and PS&E>	-	-	-	5,000,000	5,000,000	-	-	-	-	-	1	10,000,000
ROW (Right of Way)						1				1		-
Subtotal, ROW>	,			-	-	-		1			-	-
CONSTRUCTION COST (CON)					1	2			1	4.15		1
Detour and Demo of Existing Viaduct		*********			1				191 (11. 191 11. 191 11. 191 (199 11.	1		-
Reconstruction of Viaduct										>		-
Subtotal, Construction>			1			{	-	-	•	-	-	- 1
CE (Construction Support)												
Subtotal, Construction and CE>											1	
Total Project Costs	\$	\$ -	\$ -	\$ 5,000,000	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000
Funding		1									-	
Highway Bridge Program (HBP) - PA/ED/PS&E				\$ 4,426,500	\$ 4,426,500	\$-		1				\$ 8,853,000
Highway Bridge Program (HBP) - ROW	a a that that is a large state of the second		2112.212.21.29 ¹²¹ 26.10 ² 8.10 ² 8.1		1. Carlota de la constitución de la	1			111) 1 10.1 9 1.4 2114 9 12 4 10 4 10 4 10 4 10 4 10 4 10 4 10 4		ti i fiti i // liti n //nannanna/	
Highway Bridge Program (HBP) - Construction												-
Subtotal, HBP Funds>	\$ -	\$ -	\$ -	\$ 4,426,500	\$4,426,500	\$ -	\$ -	\$ -	\$ -	ļ \$ -	\$ -	\$ 8,853,000
Prop 1B Local Bridge Seismic Retrofit							; ;					-
Other State Funds						1						-
City Matching Funds				573,500	573,500	=						1,147,000
Total Funding	s -	s -	\$ -	\$ 5,000,000	\$ 5,000,000	\$ -	<u> </u>	\$ -	s -	<u> </u>	<u> </u>	\$ 10,000,000
						}				1	1	T T
Subtotal Balance - need to finance	\$ -	s -	\$ -	\$ -	\$ -	\$.	\$ -	\$ -	\$ -	\$ -	\$ -	1\$ -

TABLE 5B - CASH FLOW FINANCING: FINAL DESIGN PHASE

July 16, 2010

Costs - ROW Fiscal Year 2007-08 & Prior 2008-09 2009-10 2012-13 2013-14 2014-15 2010-11 2011-12 2015-16 2016-17 2017-18 Total PA/ED (Proj Approval and Envir Doc) \$ -Final Design (PS&E) Subtotal, PA/ED and PS&E ---> ---• -ROW (Right of Way) 36,000,000 24,000,000 21,833,000 81,833,000 Subtotal, ROW ---> 36,000,000 24,000,000 21,833,000 81,833,000 ROW Financing Costs 2,890,395 2,890,395 Subtotal, ROW & Financing --> -36,000,000 24,000,000 21,833,000 2,890,395 84,723,395 -_ * . _ CONSTRUCTION COST (CON) Detour and Demo of Existing Viaduct Reconstruction of Viaduct Subtotal, Construction ---> --. ---. ----CE (Construction Support) Subtotal, Construction and CE---> ------_ -Total Project Costs \$ 36,000,000 \$ 24,000,000 \$ 21,833,000 \$ 2,890,395 \$ 5 \$ 84,723,395 \$ --\$ --Ś 💲 \$ -\$. Fundina Highway Bridge Program (HBP) - PA/ED/PS&E Highway Bridge Program (HBP) - ROW 20,000,000 15.005.622 20,000,000 20,000,000 75,005,622 Highway Bridge Program (HBP) - Construction Subtotal, HBP Funds ---> \$ 20,000,000 \$ 20,000,000 \$ 20,000,000 \$ 15,005,622 \$ 75,005,622 ŝ : S -\$ ŝ . \$ -\$ Prop 1B Local Bridge Seismic Retrofit 2.598.870 2,598,870 2,598,870 1,921,163 9,717,773 Other State Funds . City Matching Funds -Total Funding \$ - \$. \$ -\$ 22,598,870 \$ 22,598,870 \$ 22,598,870 \$ 16,926,785 \$ \$ \$ \$ \$ 84,723,395 -. --Subtotal Balance - need to finance \$ (13,401,130) \$ (1,401,130) \$ 765,870 \$ 14,036,390 \$ \$ S Ś \$ \$ Ś (0) -. --. ŝ -Local Bonds . н 13,401,130 1,401,130 . . 14,802,260 . м . -. Payback of Local Bonds 765,870 14,036,390 14,802,260 . ----. --

- \$ 13,401,130 \$ 14,802,260 \$ 14,036,390 \$

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TABLE 5C - CASH FLOW FINANCING: ROW PHASE

July 16, 2010

Cumulative Balance

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- \$

PHASE

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Costs - Construction & CE (Support) Fiscal Year PHASE 2007-08 & Prior 2008-09 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 Total PA/ED (Proj Approval and Envir Doc) -Final Design (PS&E) _ Subtotal, PA/ED and PS&E ---> ---. -----ROW (Right of Way) -Subtotal, ROW --> . н. . CONSTRUCTION COST (CON) 12.548,466 12,548,466 Detour and Demo of Existing Viaduct 10,506,290 210,506,290 Reconstruction of Viaduct 70,000,000 70,000,000 60,000,000 Subtotal, Construction ---> 82,548,466 70,000,000 60,000,000 10,506,290 223,054,756 ------645,000 CE (Construction Support) 4,500,000 5,000,000 5,000,000 15,145.000 87.048.466 75,000,000 65,000,000 11,151,290 238,199,756 Subtotal, Construction and CE ---> . --. . -Construction Financing Costs 11,086,247 11,086,247 65,000,000 11,151,290 249,286,003 87,048,466 75,000,000 11,086,247 Subtotal, Construction, CE & Financing Costs--> . 65,000,000 \$ 11,151,290 \$ 11,086,247 \$ 249,286,003 Total Project Costs \$ \$ \$ \$ \$ \$ \$ 87,048,466 \$ 75,000,000 \$ -----Fundina Highway Bridge Program (HBP) - PA/ED/PS&E Highway Bridge Program (HBP) - ROW Highway Bridge Program (HBP) - Construction 50,000,000 \$ 50,000,000 \$ 50,000,000 \$ 50,000,000 \$ 20,692,898 220,692,898 Subtotal, HBP Funds ---> \$ \$ \$ 50,000,000 \$ 50,000,000 \$ 50,000,000 \$ 50,000,000 \$ 20,692,898 \$ 220,692,898 \$ \$ \$ Prop 1B Local Bridge Seismic Retrofit 6,497,175 6,497,175 6,497,175 6,497,175 2,604,404 28,593,105 -• Other State Funds City Matching Funds . - \$ 56,497,175 \$ 56,497,175 \$ 56,497,175 \$ 56,497,175 \$ 23,297,302 \$ 249,286,003 Total Funding \$ \$ \$ \$ - \$ - . \$. . \$ (30,551,291) \$ (18,502,825) \$ (8,502,825) \$ 45,345,885 \$ 12,211,055 Subtotal Balance - need to finance (0) S \$ \$ ŝ \$ \$ -• -. -• <u>\$</u> Local Bonds -. 30,551,291 18,502,825 8,502,825 57,556,941 . . . 45,345,885 12,211,055 57,556,940 Payback of Local Bonds . . -. Cumulative Balance \$ - \$ \$ - \$ \$ - ÷\$ - \$ 30,551,291 \$ 49,054,116 \$ 57,556,941 \$ 12,211,055 \$ 0 \$ (0) . .

TABLE 5D - CASH FLOW FINANCING: CONSTRUCTION AND CE PHASE

July 16, 2010

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City of Los Angeles

City of Los Angeles

APPENDIX B - RISK ANALYSIS SUMMARY OF THE RISK MANAGEMENT PLAN DOCUMENT

FOR THE

6TH STREET VIADUCT SEISMIC IMPROVEMENT PROJECT

UPDATED MAY 2010

	g and Control	g And scritton Date, Status and Review Comments Date, Status and Review Comments (2) (2) (2) (2) (2) (2) (2) (2)		2) The disquarter of 2007, Benn (1) and provident Disk Programmer (2) and consident Disk Programmer (2) and consident Disk Programmer (2) and disk Programmer (2) and the disk Programmer (2) and the disk programmer (2) and the programmer (2) and the disk programmer (2) and the programmer (2) and the programmer (2) and the disk programmer (2) and the programmer (2) and the disk programmer (The steft financial plan was complete 303.	As of Glob high of www coast have been continue for display of www coast have been Coast include 10% for exceeding and the coast include 10% for exceeding and setalet oppends until allow the RCO.A for the RCD and the RCD and setalet oppends with a for all of a for undired) was are during the N at of a for the may be respected with the new before high bytes concept 1Å.	4.4 2.2003, 4 grown that the proference much the product from the proference much the product from the proference much the product of the theorem the product the product of the product product from the dist of 2003. Twas checked to use the method to avoid this from, method to avoid this from.	As of the r(20 of 2008), Guiltons and PA of the r(20 of 2008), Guiltons and PA of the Instity (which the early holder of the instity (which the early holder) is chosen in the forement, such the constraint (see the relation of the relation of the relation of the relation of the relation of the relation of the relation of the relation of the relation of the relation of the relation	20204 - Chy premete dha rajoci la 20204 - Chy premete dha rajoci la SPCD oncur al Alm recommodiant for SPCD oncur al Alm recommodiant for SPCD oncur al Almonia and SPCD oncur al Almonia and SPC discretion and a second and a second second and a second a second second a second a second a second a second second a second a second a second second a second a second a second second a second a second a second a second second a second a second a second second a second a second a second second a second a second a second a second a second second a second a second a second a second a second second a second a second a second a second a second a second second a second a second a second a second a second second a second a second a second a second a second second a second a second a second a second a second a second second a second a second a second a second a second a second second a second a s
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		Responsibility (Task Manager) (16)	LAKCH2MDEA	LAPHNTB/ DEACH2XMMN	Chyridhitte	YINW	MUDEA	e Ne L	
		Affected WIES Tasks (18)	·						
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		Responsibility (Task Manager) 740	City/DEA/PTGMIN	£	cHCIN	ď	civice	ciry/CH	oly/PDT	City/OH	Ĩ
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	Response Strategy	Response Actions including advantages and disadvaritages	Chi program munagar lo diacuta with appoir management.	Métin ha cantantin pecification, peque ho cantacteris particula peraverys of poperties and to intata beateris miniers to docernari ferei of vibation.	keed to boing the planning process and deelign process in task order no. 2,	If the electors are determined by June of the electors are determined by June of a hyper of 2011 assumed somethan of mobilization by the contracts.	Receimend o offing program their dila Receiment of out break location.	Movo to change projeci dehvay malked to Movo to change projeci dehvay malked to Unchecked desalts could bo used as the bidding accuments.	viewał to moel with docidiom makom so viewał to moel with docidiom makom so bridge rypo ur finul 72.42 cu do so ereviejopał so a sonjatuckień zenitaci cu be sward.	Recorrected a drilling program trial drills bering at each bent kention. Comador pophysical surveys	Will head to detormine cast impacts and Increase with prices within cost cellmalo.
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th Street Viaduct	O P T I O N A L Quantitutive Analysis	bability impact Effect (%) (5 or days) or day (3) (5 or days) or day	2000 2000 2000 2000		%D						
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CT RISK	Ö	Probability 110)	Very High	Hg.H	yiğlu	Vory High	Б. Т	Very High	40 F	Madorate	Very High
PROJE		Type [4)	Schedule Scope	Cost Schedule	Cost Schedule	Cost	Cost Schedule	Cost	Schedule Schedule	Cast Schedule	Const Schedule
		Risk Tripger	Scoping of project for novi dealgn	Decision to use driven piles,	Declaien lo renolf o' mplace viadeut.	Desilion to delay domo tor olociton detes.	Occition to use deep formdations	Decision la retrolt or replece bridge.	Devision to estact the bridge type.	Decision to use deep foundations.	Contractore would need to pass on th some cost of Upgrading their equipment to most the new standerds,
	L	SMART Column	The magnitude of the derign versit will likely enceed the derign versit will likely enceed the derign des overlabble likely enceeded is a solution is and deriver to encrease lotal contract arrounts.	During construction, third partice may build construction, third partice may confractor and City. Contractor and City.	The Treffity needs to be rolocated pilor The Treffity needs to be rolocated pilor construction debys, At this time design is proceeding.	Domo ney to delayed until after Domo ney to delayed until after controllon activity and transing of 15 in benedic on a find, como find, serve basis until the lands are deploted.	phe foundation type not being computible with existing conditions.	It is evaluated that its membra with the provided to porticine the first of engine and the react bits first the project (of a provided the porticine the project (of a constraint), which design should the of 42011, final design should be of 42011 and the parts of bent of final design.	If the decision is wheel bridge type is the decision is wheel bridge type is take a decision in we have yet at 2000, the take at decision in we have yet at the second of the second second second decision and put funding at persists, it	Burida men-made objects (rock dika. concrete cindak, etc.) might bo in the visitity of pile work.	The California Legislation could enact area carbon entrations standards for construction equipment in Colifornia.
	ld en tifica	Threat/Opportunity Event (8)	Caps on design contracts cel at \$5 militoh.	Pilo diving vibration damage to extering facilities.	Rabeation of City facility. City matchenarce facility below vinduct transfed at west and of the project.	13 funding being kei due to starting demo at a iste date.	Differing Sile Conditions	Datign och hellov la Prosmed en Datign occidi tesuk in high projeci cesuk.	Process to solari bridge type	Butted man-made objects	"Oreen Huurka Gaa" Legislation Cool
	.	Functional Assignment (5)	Englaroering Services	Construction	Design	Funding	Construction	DesigniConstruction	Doelgn	Construction	Construction
		Date Identified Project Phase		srfei2008	6/18/2005	4/7/2009	4/7/2009	4/7/2009	4/1/2009	4/7/2009	4/1/2009
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	and Control	Date, Status and Review Comments	(21)	Have allocated with City Englinear on the contract of with City Englinear on criteria for the competition, such that of the competition, such all the summer terms, providing allowate to terms, the competition state and the threa on virtuation decompetivation to dealy that will reak funding.	
	Monitoring	Status Interval or Milestone Check	(20)	Monthly	тояцију
		Responsibility (Task Nanager)	(61)	Grych	City/Dosign Taam
		Affected WBS Tasks	(81)		
	Response Strategy	Response Actions including advantages and disadvantages	(13)	inform City Engineer and other stabsholds of risks and secondley cart to ture a solidar compatition.	Provide the SHPC with plane and request Version structure with 32 days for consistention. Place the orient time line into the project echedde.
		rategy	(16)	Rvoldance	sourcideory
rct	si:	oct (\$ r days) 9t	n(13)x(14)		
et Viadu	FIONAL ative Analy-	Impact Eff	(14) (15)		
tth Stree	O P ^r	robability [%]	(13)	÷5	
EMENT PLAN - SI	ais	Risk Matrix	(12)		
ANAGE	alive Ana()	limpact	{ (11)	Very High	É. T
CT RISK M	Qualit	Protability	(10)	low	ž
PROJEC		, Type	(8)	Coat Schedule	3 chedule
-		Risk Trigger	(8)	City deeddes (o move shoad with e doelgn competition.	Oly discloted to screeping the SHPO roview as part of the MOU.
	itton	SMART Celuma	1 (1)	Describent to hold a design compatition development of the design compatition detechnication. The compatition reveal detechnication. The compatition reveal design for a compatition to with the final density for compatition to with density for deary for the yr y your and side lifety deary for the yr your and side besting 15 (parts.)	As part of the MOU with the StePC, to be shown and source of the MOU with the StePC (of workers and source of the step steps is provide its short provident contents of the prior and utilitary provident contents of the prior and utilitary provident contents doing the prior doubting on a such that the step step step step step step (steps).
	ldentifica	Threat/Opportunity Event	(6)	Design competition for fanal design.	The SHPO zeriawing the bridge plans.
		Functional Assignment	(2)	Design	Des Ig
		late Identified roject Phase	(4)	4/7/2009	3/26/20 1/0
		06 8 9	(2)	20 20 20	#3
		Alitalia Status	(1) (2)	Derma	Active
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APPENDIX C – CHECKLIST FOR FINANCIAL PLAN COMPONENTS FHWA FINANCIAL PLAN GUIDANCE ATTACHMENT C 6th STREET VIADUCT PROJECT INITIAL FINANCIAL PLAN July 2010

1. <u>Cost Estimate</u>	Status
Provide a total cost estimate for the full project. Provide an activity breakdown for feasibility studies, preliminary engineering, environmental assessment, right-of- way acquisition, construction, construction engineering and inspection, project management, contingencies, and ITS activities. Include other cost categories, as necessary. See <i>Major Project Program Cost Estimating Guidance</i> .	completed
All cost estimates should be expressed on a year-of-expenditure basis and should include a narrative describing assumptions used to arrive at such estimates.	completed
2. Implementation Plan	
Provide a comprehensive description of the project, including, but not limited to, project scope, termini, and interconnections. Describe any proposed phasing for the project and dependencies on other projects. Include a list of all federal, state, and local permits and approvals required for the project and a schedule for obtaining such permits and approvals.	completed
Include the schedule for completing the project, by year, showing estimated costs.	completed
It should be noted that updates to the initial financial plan should ensure consistency in project scope. If costs/schedule change, the changes must be clearly identified to ensure valid comparisons to the initial financial plan.	completed
3. Financing and Revenues	
Sources should include separate line items, as applicable, for Federal, state, and local funds; private investment; any other contributions; market value of right-of- way dedications; bond proceeds (general obligation, revenue, GARVEEs, and others); state infrastructure bank loans; other borrowing (specify); investment income; Federal credit assistance (TIFIA). The total of all funding sources should equal the total of the cost estimate. New funding sources developed after the Initial Financial Plan should be incorporated at the subsequent Annual Update.	completed
4. <u>Cash Flow</u>	
The cash flow pro forma should indicate the level of cash required to fund the project on an annual basis over the period of the financial plan. The pro forma should include beginning and ending balances, all sources and uses of funds, and show annual change in financial position. Total sources and uses should be equal.	completed

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