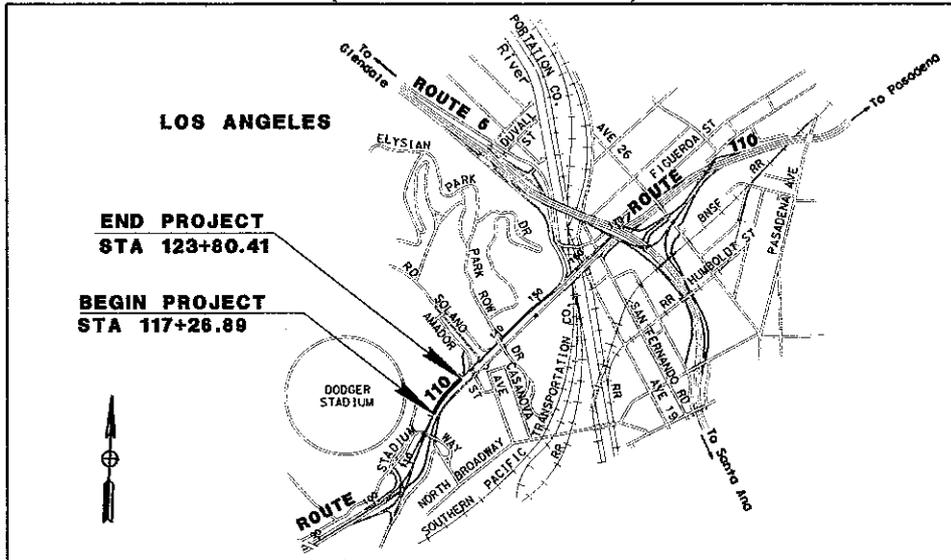
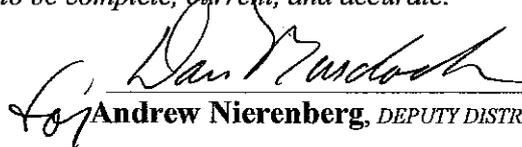


PROJECT SCOPE SUMMARY REPORT (Seismic Retrofit)

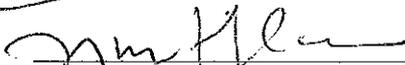


In Los Angeles County, on Route 110, Stadium Way UC, PM 24.73/24.90

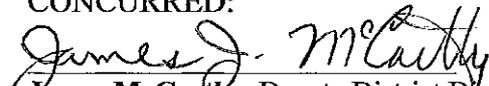
I have reviewed the right of way information contained in this Project Scope Summary Report-Seismic Retrofit and the R/W Data Sheet attached hereto, and find the data to be complete, current, and accurate:

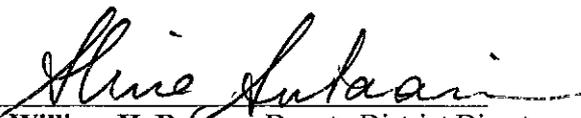

Andrew Nierenberg, DEPUTY DISTRICT DIRECTOR – RIGHT OF WAY

APPROVAL RECOMMENDED:

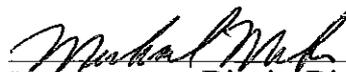

Jiwanjit Palaha, Project Manager

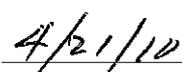
CONCURRED:


James McCarthy, Deputy District Director,
Division of Planning, Public Transportation
& Local Assistance


William H. Reagan, Deputy District Director
Division of Design

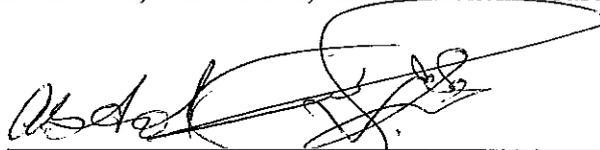
APPROVED:


Michael Miles, District Director


Date

07 - LA - 110, PM 24.73-24.90

This Project Scope Summary Report-Seismic Retrofit has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.



ABDOL HAJIPOUR, P.E.
Project Engineer

March / 23 / 2010

Date

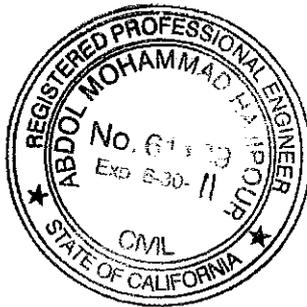


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1. INTRODUCTION:

This Project Scope Summary Report proposes to seismically retrofit the Stadium Way Sidehill Viaduct on Route 110 in Los Angeles County. The total estimated construction cost in 2009 is \$600,000 and the project funding is from the 201.113 program.

2. RECOMMENDATION

It is recommended to proceed with the seismic retrofit of the Stadium Way Viaduct per Structure Replacement and Improvement Need (STRAIN) Report recommendation dated July 1, 2009, (Attachment I).

3. LOCATION AND PROBLEM

The existing Stadium Way Sidehill Viaduct UC (Bridge # 53-2859L) is located on S/B Route 110, a north/south interstate freeway connecting City of Pasadena to City of Los Angeles.

The Stadium Way Sidehill Viaduct was constructed in 2001 with no major rehabilitation or retrofitting since. The existing bridge has a walkway attached to Route 110 southbound shoulder. The structure has inadequate seismic rating as indicated in the STRAIN report. The STRAIN report recommends to seismically retrofitting the structure. Also, a memorandum to Barton Newton dated March 28, 2007 (Attachment I) identified that the structure needs to be seismically retrofitted.

4. PROPOSAL:

The project proposes to seismically retrofit this structure by extending the hinge seats (Attachment C). Holes will be drilled from the top of the bridge which requires temporary lane closure. The preassembled seat extenders will be fastened beneath the structure. At some sections, scaffolding would be used to reach the bottom of the structure.

5. COST ESTIMATES

See Attachment H.

STRUCTURE: Seismic Retrofit	\$ <u>217,300</u>
DISTRICT:	\$ <u>371,910</u>
Total Construction Cost:	\$ <u>589,210</u>
Say	\$ <u>600,000</u>

6. PROJECT SCHEDULE

The following milestone completion dates are anticipated:

Milestones	Delivery Date (Month, Day, Year)
Project PS&E	10/10/2012
Right of way Certification	08/30/2012
Ready to List	10/02/2012
Approve Contract	02/28/2013
Contract Acceptance	08/30/2013
End Project	02/26/2014

Project Development Support Cost (x\$1,000)

	District			Engineering Service Center		Total (x1000)
	Design	Construction	R/W	Design	Construction	
Estimated PS	60	60	0	60	60	240
Total	60	60	0	60	60	240

7. PROJECT FACTORS

7A. Environmental Clearance:

This project is Categorically Exempt (Attachment D).

7B. Preliminary Hazardous Waste Assessment:

No Hazardous Waste is anticipated on this project, therefore no associated cost is included in cost estimate. (Attachment E).

7C. Right of Way:

All work will be done within State's Right of Way (Attachment F).

7D. Transportation Management Plan and Traffic Control:

All work will be done under the bridge and on the structure. Total estimated cost of TMP is \$30,000 (Attachment M). For maintaining traffic control system, \$60,000 is included in the project cost (Attachment H).

7E. Consistency with other Planning:

There is no project in Caltrans data base in the vicinity of this project.

7F. Los Angeles River Trash TMDL

The project limit is within Los Angeles River Watershed. The Storm Water Data Report was approved on 03/03/2010 (Attachment K). Total amount of \$19,500 is allocated for construction site BMP's and no permanent BMP's are proposed at this phase.

8. PROJECT FUNDING

This project is proposed to be included in the 2012 State Highway Operation and Protection Program and for funding from the Bridge Seismic Restoration Program (201.113). The current construction cost for the project as of March 2010 is \$ 600,000. Based on 5% escalation factor per year, the project construction cost for the proposed program year (2013/2014) is \$ 661,500.

9. PROJECT PERSONNEL

Jiwanjit Palaha	Project Manager	213-897-6926
Albert A. Andraos	Senior Transportation Engineer	213-897-4921
Abdol Hajipour	Project Engineer	213-897-6278
Tommy Tran	Transportation Engineer	213-897-5726
Bing Wu	Senior Bridge Engineer	213-897-0874
Massoud Esnaashari	HQ's Structural Liaison	916-227-8341

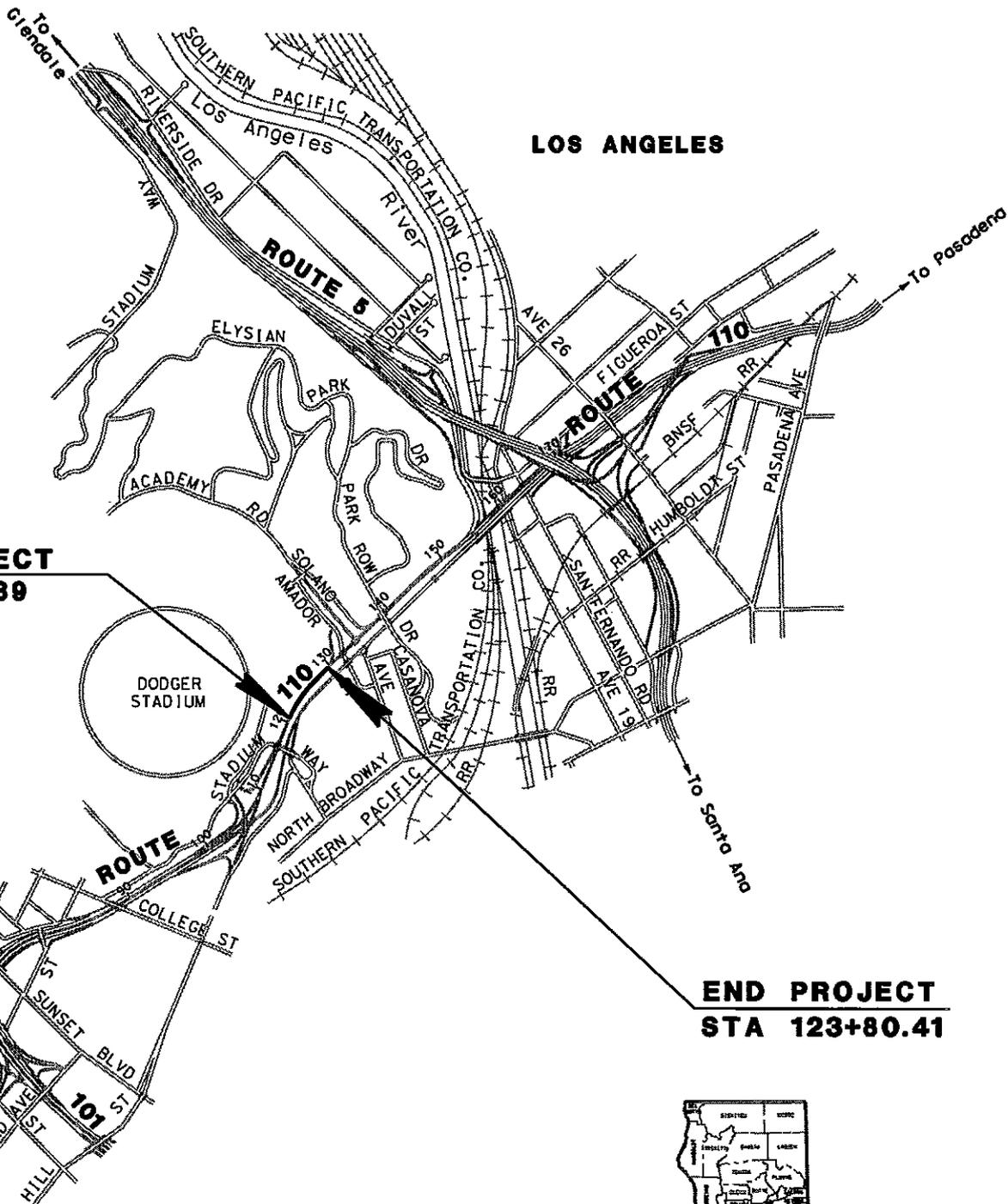
10. PROJECT REVIEWS

Office	Reviewers	Yes/No	Date
Strategy Field Meeting	See Attachment N	Yes	8/23/2010
District Quality Review		Yes	2/10/2010
District Program Advisor (Seismic Retrofit Program)	Paul Stevens	Yes	2/10/2010
District Bridge Maintenance	Bing Wu	Yes	2/10/2010
Right of Way	Dan Murdoch	Yes	2/10/2010
ESC-HA21 Program Advisor	Diana Campbell	Yes	2/10/2010
HQ's Structural Liaison	Masoud Esnaashari	Yes	2/10/2010

11. LIST OF ATTACHMENTS

- A. Location Map
- B. Layout & Cross Section
- C. Advance Planning Study (APS)
- D. Environmental Documents
- E. Preliminary Hazardous Waste Assessment
- F. Right of Way Data Sheet
- G. Work Plan
- H. Cost Estimate
- I. Memorandum to Barton Newton and Structure Replacement and Improvement Need (STRAIN) Report
- J. Performance Indicator
- K. Storm Water Data Report
- L. Transportation Management Plan
- M. Strategy Meeting Minutes and Attendees Roster

ATTACHMENT A
LOCATION MAP



LOS ANGELES

**BEGIN PROJECT
STA 117+26.89**

**END PROJECT
STA 123+80.41**

**EA: 28110K
07-LA-110 PM24.73/ 24.90
VICINITY MAP**

NO SCALE



ATTACHMENT B
LAYOUT AND CROSS SECTION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	110	24.5/25.5		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

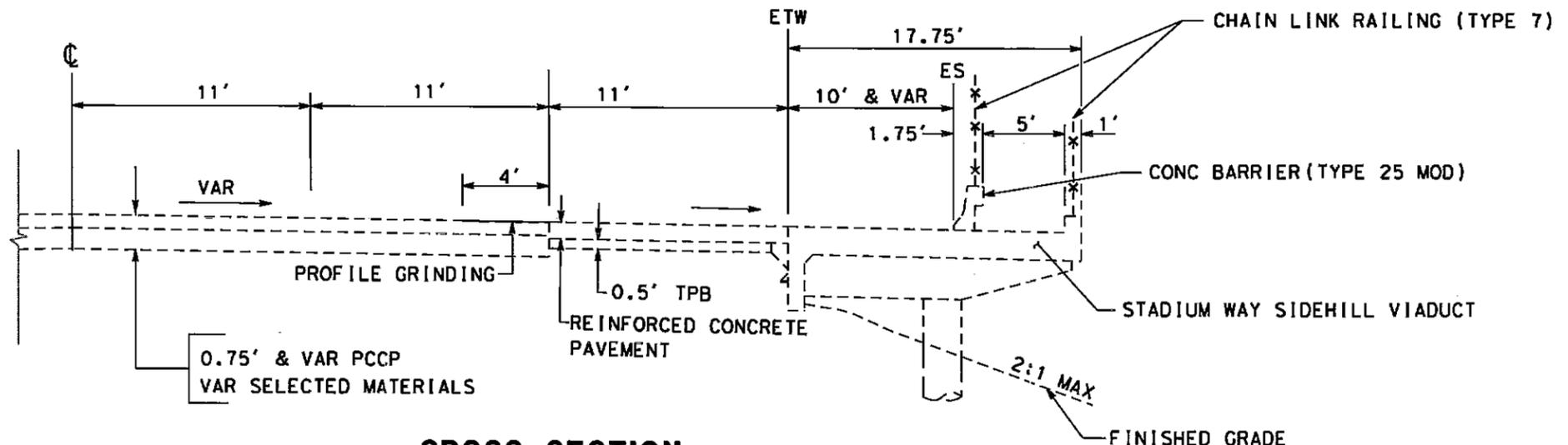
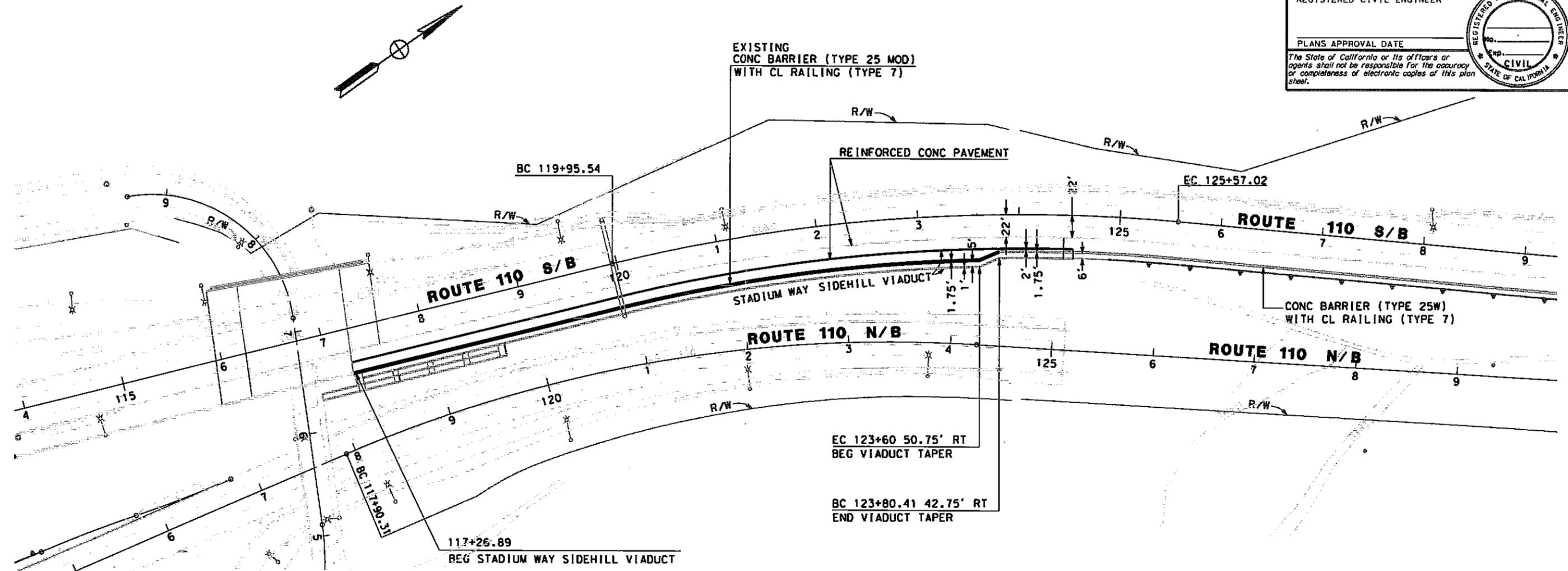
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

PROJECT ENGINEER
ABDOL HAJIPOUR

REVISOR
 DATE

CHECKED BY
 DATE



CROSS SECTION
 S/B STA 117+26.89 TO 124+45

LAYOUT
 SCALE: 1"=100'

ATTACHMENT C

ADVANCE PLANNING STUDY

Memorandum

*Flex your power!
Be energy efficient!*

To: Albert Andraos
Senior Transportation Engineer
Office of Project & Special Studies

Date: April 6, 2010

File: 07-LA-110
PM 24.73/24.90

EA: 07-28110K

From: DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
Office of Structure Design
Design Branch 14

Subject: Bridge Seismic Retrofit

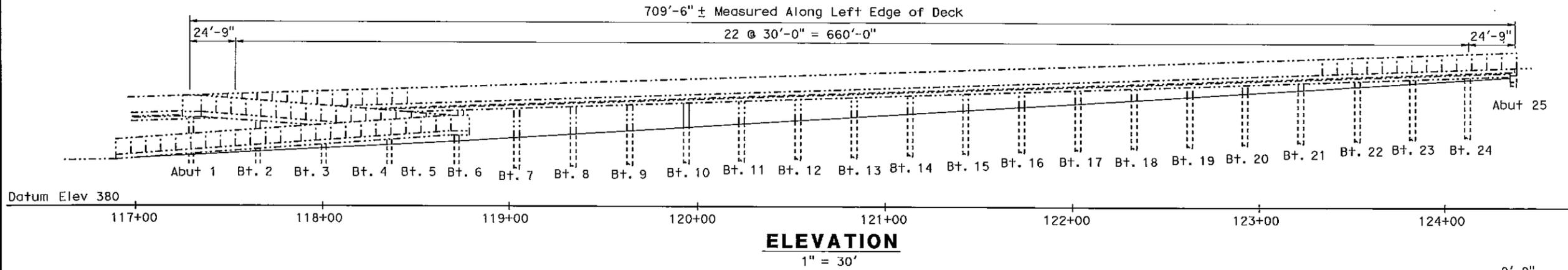
Attached please find two copies of revised Advanced Planning Studies dated October 20, 2009 for the above referenced project. A seismic analysis was performed on the bridge shown below. It was determined the Stadium Way Sidehill Viaduct needed Hinge Seat Extenders. The total cost for the retrofit is \$217,300.00. These costs include 10% for mobilization, 10% for time related overhead and 25% for contingencies.

Feel free to call me at 916-227-8111 or the project engineer Jerry Han at (916) 227-3995 should any questions arise regarding the APS.

Doug Dunrud, Chief
Design Branch 14

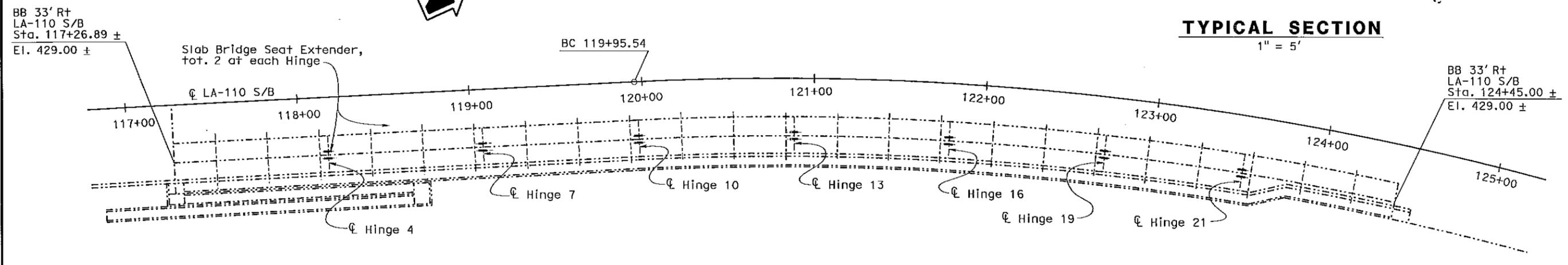
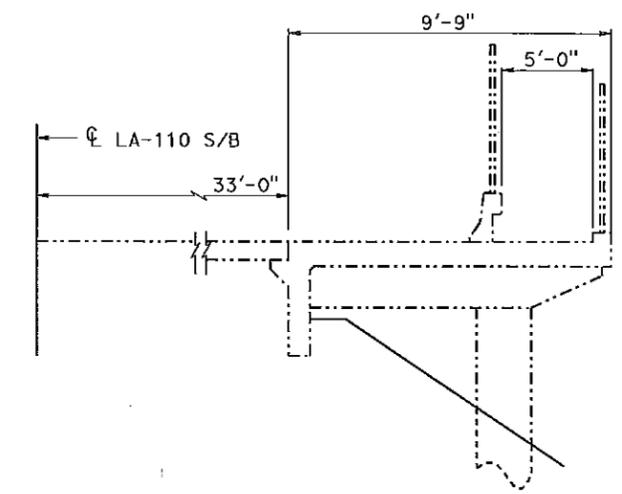
Attachment / Enclosure: 1
c: File

DIST	COUNTY	ROUTE	POST MILE
07	LA	110	24.73



DATE OF ESTIMATE	=	11-2 -09
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	1'-4"
LENGTH	=	709'-6"
WIDTH	=	9'-9"
AREA	=	12,594 sf
COST/□ INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	217,300
TOTAL COST	=	217,300

NOTE:
Deck drainage is leaking, to be repaired



DESIGNED BY	J. Han	DATE	10-20-09
DRAWN BY	L. Xiong	DATE	10-20-09
CHECKED BY	K. Lit	DATE	10-20-09
APPROVED	D. Dunrud	DATE	10-20-09

**STRUCTURE
DESIGN
BRANCH
14**

PLANNING STUDY	
STADIUM WAY SIDEHILL VIADUCT (RETROFIT)	
BRIDGE NO. 53-2859L	CU 07
SCALE: Varies	EA 28110K

ATTACHMENT D

ENVIRONMENTAL DOCUMENTS

CATEGORICAL EXEMPTION/ CATEGORICAL EXCLUSION DETERMINATION FORM

07-LA-110	24.5/24.9	28110K	20090411
Dist.-Co.-Rte. (or Local Agency)	P.M/P.M.	E.A. (State project)	Fed-Aid Proj No. (Local project)/ Proj. No. CE Number

PROJECT DESCRIPTION:

The California Department of Transportation proposes to complete a seismic retrofit of the Interstate Route 110 Sidehill Viaduct (Bridge No. 53.2859L), between Stadium Way and Solano Avenue. The Sidehill Viaduct functions as an extension of the southbound Interstate Route 110 shoulder and a pedestrian walkway. The retrofit would consist of extending the seats hinges on the bridge by drilling holes on the deck to fasten the pre-assembled seat extenders. A temporary lane closure along the southbound I-110 will need to be implemented to conduct project work. All work will occur within the prism of the roadway. Furthermore, there will be no excavation as part of this project. No environmental resources will be adversely affected by this project.

CEQA COMPLIANCE

- Based on an examination of this proposal, supporting information, and the following statements (See 14 CCR 15300 et seq.):
- If this project falls within exempt class 3, 4, 5, 6 or 11, it does not impact an environmental resource of hazardous or critical concern where designated, precisely mapped and officially adopted pursuant to law.
 - There will not be a significant cumulative effect by this project and successive projects of the same type in the same place, over time.
 - There is not a reasonable possibility that the project will have a significant effect on the environment due to unusual circumstances.
 - This project does not damage a scenic resource within an officially designated state scenic highway.
 - This project is not located on a site included on any list compiled pursuant to Govt. Code § 65962.5 ("Cortese List").
 - This project does not cause a substantial adverse change in the significance of a historical resource.

CALTRANS CEQA DETERMINATION

- Exempt by Statute. (PRC 21080[b]; 14 CCR 15260 et seq.)
- Based on an examination of this proposal, supporting information, and the above statements, the project is: **Emergency Actions**
- Categorically Exempt. Class 1**. (PRC 21084; 14 CCR 15300 et seq.)
- Categorically Exempt. General Rule exemption.** [This project does not fall within an exempt class, but it can be seen with certainty that there is no possibility that the activity may have a significant effect on the environment (CCR 15061[b][3])]

<u>GARY J. IVERSON</u>	<u>JUANITA S. PALAHA</u>
Print Name: Environmental Branch Chief	Print Name: Project Manager/DLA Engineer
Date <u>11/10/09</u>	Date <u>11/17/09</u>

NEPA COMPLIANCE

- In accordance with 23 CFR 771.117, and based on an examination of this proposal and supporting information, the State has determined that this project:
- does not individually or cumulatively have a significant impact on the environment as defined by NEPA and is excluded from the requirements to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS), and
 - has considered unusual circumstances pursuant to 23 CFR 771.117(b)
(<http://www.fhwa.dot.gov/hep/23cfr771.htm> - sec.771.117).

In non-attainment or maintenance areas for Federal air quality standards, the project is either exempt from all conformity requirements, or conformity analysis has been completed pursuant to 42 USC 7506(c) and 40 CFR 93.

CALTRANS NEPA DETERMINATION

- Section 6004:** The State has been assigned, and hereby certifies that it has carried out, the responsibility to make this determination pursuant to Chapter 3 of Title 23, United States Code, Section 326 and a Memorandum of Understanding (MOU) dated June 7, 2007, executed between the FHWA and the State. The State has determined that the project is a Categorical Exclusion under:
- 23 CFR 771.117(c): activity (c) ()
 - 23 CFR 771.117(d): activity (d) (3)
 - Activity listed in the MOU between FHWA and the State

Section 6005: Based on an examination of this proposal and supporting information, the State has determined that the project is a CE under Section 6005 of 23 U.S.C. 327.

<u>GARY J. IVERSON</u>	<u>JUANITA S. PALAHA</u>
Print Name: Environmental Branch Chief	Print Name: Project Manager/DLA Engineer
Date <u>11/10/09</u>	Date <u>11/17/09</u>

Briefly list environmental commitments on continuation sheet. Reference additional information, as appropriate (e.g., air quality studies, documentation of conformity exemption, FHWA conformity determination if Section 6005 project; §106 commitments; §4(f); §7 results; Wetlands Finding; Floodplain Finding; additional studies; and design conditions). Revised September 15, 2008 A.B.

ATTACHMENT E

PRELIMINARY HAZARDOUS WASTE ASSESSMENT

Memorandum

*Flex your power!
Be energy efficient!*

To: ALBERT ANDRAOS
Senior Transportation Engineer
Office of Project & Special Studies
Attn.: Abdol Hajipour

Date: November 30, 2009

File: 07-LA-110-PM 24.5/24.9
EA: 07-28110K

From: Office of Environmental Engineering & Corridor Studies
Hazardous Waste Unit-North Region

Subject: Hazardous Waste Assessment for PSSR

This memorandum is in response to your request dated November 18, 2009 for Hazardous Waste Assessment for the above-referenced project. It is our understanding that the proposed project is located on the southbound Route 110, between Stadium Way and Solano Ave, and is proposed to seismically retrofit the Stadium Way Sidehill Viaduct (Bridge No. 53-2859L) structure by extending the seats of the hinges. It is also our understating that the proposed work involves drilling of holes on the deck to fasten the seat hinges.

Based on the scope of work, neither excavation nor removal of traffic strips is apparent within the project limits. Therefore, there is no hazardous waste concern in this project.

If you have any questions or need further information, please contact me at extension 7-0670 or Munshi Mohsin of my staff at 7-1350.



AYUBUR RAHMAN
District Hazardous Waste Coordinator
Office of Environmental Engineering and Corridor Studies

ATTACHMENT F
RIGHT OF WAY DATA SHEET

TO Albert Andraos
 ATTN Abdol Hajipour
 PHONE (213) 897-6278
 SENIOR RW P&M
 ROUTE 110
 PM_KM PM24.5/24.9 KP (39.43/40.07)
 EA 28110K
 ALT

R/W DATA SHEET

Date of Data Sheet 11/30/2009
 WBS
 REVISED
 UPDATED
 PROJ_DESC Seismic Retrofit

**ID NO
 1678**

This cost estimate is pursuant to the following statements which are based on information provided by Albert Andraos.

This cost estimate is valid for the above scoping report only. This is an estimate only and not an appraisal. It may be based on worse case scenarios. The estimate is subject to change and revision.

The mapping did not provide sufficient nor adequate detail to determine the limits of the Right of Way required and effects on the improvements.

The transportation facilities have not been sufficiently designed for our estimator to determine the damages to any of the remainder parcels affected by the project.

Residential displacement is not involved .

Utility facilities or Utility Right of Way are not affected.

Railroad facilities or R.R. Right of Way are not affected.

Right of Way work will be performed by Caltrans staff.

Major items of Construction Contract Work are anticipated

No material borrow and/or disposal sites are not required.

There are no potential relinquishments and/or abandonments.

Hazardous waste parcels are not evident

Time constraints precluded a detailed cost estimate.

The time schedule provided by the requesting party allowed for a field inspection.

RW COST ESTIMATE

	CURRENT VALUE	ESCALATED VALUE
R/ w acq.(incl.contingency G.w-condem.-adm.s'li.)Permits	NONE	NONE
Clearance	NONE	NONE
RAP (cont rate.)	NONE	NONE
Escrow costs (cont rate.)	NONE	NONE
Utility relocation costs	NONE	NONE
Estimate of Reimbursed Appraisal Fee	NONE	NONE
Total estimated cost	NONE	NONE

ESCALATION RATE RW .07
 ESCALATION RATE Utilities

CERT.DATE 2/1/12

According to Abdol Hajipour, no RW is required for this job.

ATTACHMENT G
WORK PLAN

WBS Code	Activity Description	Task Mgr	% Comp	Orig Dur	Rem Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
28110 LA-110-24.5/25.5::JP										
0.100	PROJ MGMT	MKT	20	1,105*	978*	08/10/09A	02/26/14	08/10/09A	02/26/14	0
0.100.05	PROJ MGMT - PID CMPNT	MKT	0	137*	10*	08/10/09A	03/30/10	08/10/09A	03/30/10	0
0.100.10	PROJ MGMT - PA&ED CMPNT	MKT	0	3,247	0	04/01/10	03/30/10	04/01/10	03/30/10	0
0.100.15	PROJ MGMT - PS&E CMPNT	MKT	0	414*	414*	07/05/11	02/28/13	07/05/11	03/08/13	6
0.100.20	PROJ MGMT - CONST CMPNT	MKT	0	248*	248*	03/01/13	02/26/14	10/01/13	02/26/14	0
0.100.25	PROJ MGMT - R/W CMPNT	MKT	0	552*	552*	12/12/11	02/26/14	12/12/11	02/26/14	0
1.150	DEVELOP PID	BW	0	50	10	08/10/09A	03/30/10	08/10/09A	03/30/10	0
2.160	PERF PREL ENGRG STUDIES &	N/A	0	0*	0*	04/01/10	03/30/10	04/01/10	03/30/10	0
2.160.05	UPDD PROJ INFO	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.160.10	ENGRG STUDIES	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.160.15	DRAFT PR	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.160.20	ENGRG & LAND NET SRVYS	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.165	PERF ENV STUDIES & PREP	N/A	100	0*	0*					
2.165.05	ENV SCPG OF ALTS IFS IN PID	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.165.10	GENL ENV STUDIES	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.165.15	BIOL STUDIES	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.165.20	CLTRL RSRC STUDIES	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.165.25	DED	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.170	PMTS AGRES & RAS DURING	BW	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.175	CIRC DED & SLT PRFD PROJ	N/A	0	0*	0*	04/01/10	03/30/10	04/01/10	03/30/10	0
2.175.05	DED CIRCEN	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.175.10	PUB HRG	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.175.15	PUB CMNT RESPS & CRNC	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.175.20	PROJ PRFD ALT	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.180	PREP & APV PR & FED	N/A	0	0*	0*	04/01/10	03/30/10	04/01/10	03/30/10	0
2.180.05	FPR	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.180.10	FED	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
2.180.15	CMPLTD ENV DOC	N/A	0	0	0	04/01/10	03/30/10	04/01/10	03/30/10	0
3.185	BASE MAPS & PLAN SHEETS	HS	0	117*	117*	07/05/11	12/20/11	07/05/11	12/20/11	0
3.185.05	UPDD PROJ INFO	HS	0	22	22	07/05/11*	08/03/11	07/05/11*	08/03/11	0
3.185.10	SRVYS & PHTGR MPG FOR	HS	0	44	44	08/04/11	10/05/11	08/04/11	10/05/11	0
3.185.15	PREL DSN	HS	0	44	44	10/06/11	12/09/11	10/06/11	12/09/11	0
3.185.20	ENGRG RPTS	HS	0	20	20	10/06/11	12/09/11	11/09/11	12/09/11	0
3.185.25	R/W RQMTS DTRMTN	HS	0	7	7	12/12/11	12/20/11	12/12/11	12/20/11	0
3.185.30	STRUC SITE PLANS	HS	0	44	44	12/12/11	02/14/12	12/16/11	02/21/12	4
3.205	PMTS AGRES & RAS DURING	HS	0	200	200	07/05/11	04/20/12	01/03/12	10/16/12	124
3.230	PREP DRAFT PS&E	HS	0	140	140	12/12/11	07/02/12	12/22/11	07/13/12	8
3.235	MIT ENV IMPTS & CLEAN UP	GMI	0	200	200	07/05/11	04/20/12	11/13/12	08/30/13	342
3.240	DRAFT STRUCS PS&E	ESC	0	78	78	03/19/12	07/09/12	03/23/12	07/13/12	4
3.250	PREP FNL STRUCS PS&E	ESC	0	40	40	07/10/12	09/04/12	08/21/12	10/16/12	30
3.255	CIRC RVW & PREP FNL DIST	GLF	0	150	150	07/10/12	02/13/13	07/18/12	02/22/13	6
3.260	CONTR BID DOCS RTL	N/A	0	0	0	10/04/12	10/03/12	10/10/12	10/09/12	4
3.265	AWDD & APVD CONST CONTR	BL	0	50	50	10/29/12	02/13/13	12/11/12	02/22/13	6
4.195	R/W PROP MGMT & EXCS	DEM	0	300	300	08/31/12	11/12/13	12/13/12	02/26/14	70
4.200	UTIL RELOCN	UBA	0	150	150	07/05/11	02/08/12	03/08/12	10/09/12	169
4.220	PERF R/W ENGRG	DEM	0	50	50	12/21/11	03/05/12	12/21/11	03/05/12	0
4.225	OBN R/W INTST FOR PROJ R/W	DEM	0	125	125	03/06/12	08/30/12	03/06/12	08/30/12	0

Start Date 01/01/73
Finish Date 02/26/14
Data Date 03/16/10
Run Date 03/16/10 15:23

MODL - BQ00 Sheet 1 of 2
Caltrans District 7
Dynamic Workplan Model
Classic Schedule Layout

WBS Code	Activity Description	Task Mgr	% Comp	Orig Dur	Rem Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
4.245	POST R/W CERTN WRK	DEM	0	225	225	08/31/12	07/26/13	11/05/12	09/30/13	45
4.300	PERF FNL R/W ENGRG ACTS	MRP	0	100	100	07/29/13	12/19/13	10/01/13	02/26/14	45
5.270	CE & GCA	DN	0	122*	122*	03/01/13	08/22/13	03/11/13	08/30/13	6
5.270.10	CONST STAKING PCKG & CTRL	DN	0	100	100	03/01/13	07/23/13	03/11/13	07/31/13	6
5.270.15	CONST STAKES	DN	0	100	100	03/01/13	07/23/13	10/01/13	02/26/14	148
5.270.20	CE WRK	DN	0	100	100	03/01/13	07/23/13	03/11/13	07/31/13	6
5.270.25	CONST CONTR ADMIN WRK	DN	0	75	75	03/01/13	06/17/13	04/16/13	07/31/13	31
5.270.30	CONTR ITEM WRK INSPN	DN	0	100	100	03/01/13	07/23/13	03/11/13	07/31/13	6
5.270.35	CONST MTL S&T	DN	0	100	100	03/01/13	07/23/13	03/11/13	07/31/13	6
5.270.40	SAFETY & MTCE RVWS	DN	0	10	10	07/24/13	08/06/13	08/01/13	08/14/13	6
5.270.45	RLF FROM MTCE PROCESS	DN	0	2	2	08/07/13	08/08/13	08/15/13	08/16/13	6
5.270.55	FNL INSPN & ACPTC RCMDN	DN	0	5	5	08/09/13	08/15/13	08/19/13	08/23/13	6
5.270.60	PLANT ESTABLISHMENT	DN	0	100	100	03/01/13	07/23/13	03/11/13	07/31/13	6
5.270.65	TMP IMPLN DURING CONST	DN	0	100	100	03/01/13	07/23/13	03/11/13	07/31/13	6
5.270.70	UPDD ECR	DN	0	7	7	08/07/13	08/15/13	08/15/13	08/23/13	6
5.270.75	RSRC AGENCY PMT RNWL &	DN	0	5	5	08/16/13	08/22/13	08/26/13	08/30/13	6
5.270.80	L-TRM ENV MITIGN/MNTG	DN	0	100	100	03/01/13	07/23/13	04/11/13	08/30/13	28
5.275	CE & GCA OF STRUCS WRK	DN	0	100	100	03/01/13	07/23/13	04/11/13	08/30/13	28
5.285	CCO ADMIN	DN	0	150	150	03/01/13	10/02/13	07/22/13	02/26/14	98
5.290	RSLV CONTR CLAIMS	DN	0	150	150	03/01/13	10/02/13	07/22/13	02/26/14	98
5.295	ACPT CONTR PREP FE & FR	DN	0	120	120	09/03/13	02/26/14	09/03/13	02/26/14	0
M000	ID NEED	MKT	100	0	0	08/10/09A		08/10/09A		
M010	APPROVE PID	BW	0	0	0		03/30/10		03/30/10	0
M015	PROG PROJ	-	0	0	0		03/30/10		03/30/10	0
M020	BEGIN ENVIRO	CM2	0	0	0	04/01/10		04/01/10		0
M040	BEGIN PROJ	BW	0	0	0	04/01/10		04/01/10		0
M120	CIRC DED	CM2	0	0	0		03/30/10		03/30/10	0
M200	PA&ED	BW	0	0	0		03/30/10*		03/30/10*	0
M221	BRIDGE SITE DATA ACCEPTED	ESC	0	0	0		02/14/12		02/21/12	4
M222	BEGIN BRIDGE	ESC	0	0	0		03/16/12		03/22/12	4
M224	R/W MAPS	-	0	0	0		12/20/11		12/20/11	0
M225	REGULAR R/W	DEM	0	0	0		03/05/12		03/05/12	0
M275	GENERAL PLANS	ESC	0	0	0		07/09/12		07/13/12	4
M300	CIRC PLANS IN DIST	CS	0	0	0		07/09/12		07/13/12	4
M318	DESIGN SAFETY REVIEW	MKT	0	0	0		07/09/12		07/13/12	4
M328	CONSTRUCTABILITY REVIEW	MKT	0	0	0		07/09/12		07/13/12	4
M377	PS&E TO DOE	GLF	0	0	0		07/09/12		07/13/12	4
M378	DRAFT STRUC PS&E	ESC	0	0	0		07/09/12		07/13/12	4
M380	PROJ PS&E	GLF	0	0	0		10/10/12		10/16/12	4
M410	R/W CERT	DEM	0	0	0		08/30/12		08/30/12	0
M460	RTL	ESC	0	0	0		10/02/12*		10/02/12*	0
M480	HQ ADVERT	BL	0	0	0		10/26/12		12/10/12	28
M500	APPROVE CONTRACT	BL	0	0	0		02/28/13		03/08/13	6
M588	FINAL SAFETY REVIEW	MRP	0	0	0		08/22/13		08/30/13	6
M600	CONTRACT ACCEPT	MRP	0	0	0		08/30/13*		08/30/13*	0
M700	FINAL REPORT	GDM	0	0	0		02/26/14		02/26/14	0
M800	END PROJ	MKT	0	0	0		02/26/14		02/26/14	0

ATTACHMENT H
COST ESTIMATE

PRELIMINARY PROJECT COST ESTIMATE SUMMARY

DIST-CO-RTE 07-LA-110
 KP(PM) 24.73-24.90
 EA 28110K
 PP NO. _____

Section 4 Specialty Items

	Quantity	Unit	Unit Price	Unit Cost
Water Pollution Control Program	1	LS	\$19,500	\$19,500
Resident Engr. Office (Construction)	1	LS	\$50,000	\$50,000
Hazardous Waste Mitigation Work				
PCC Pavement Grooving				
Salvage Metal Guard Railing				
Environmental Mitigation				
Remove Metal Beam Barrier				
Ret. Walls (Widening and lanslide area)				
Sub-drain system (Landslide Area)				
Remove Relocate Pull Box				
Median conc. aesthetics				
Maintence Pull Out Area (On ramps)				
			Subtotal Specialty Items	\$69,500

Section 5 Traffic Items

Construction Area Signs	1	LS	\$2,000	\$2,000
Transportation Management Plan	1	LS	\$30,000	\$30,000
Yellow Thermoplastic Stripe				
Thermoplastic Traffic Stripe (6 in.)				
Pavement Markers (Retroreflective)				
Pavement Markers (Nonreflective)				
Traffic Control Systems	1	LS	\$60,000	\$60,000
Remove Pavement Markers				
Remove Thermoplastic Stripe				
Remove Thermoplastic Yellow Stripe				
Hazardous Waste Mitigation Work LCP				
Replace Loop Detectors				
Crash Cushion				
Construction BMP	1	LS	\$65,000	\$65,000
			Subtotal Traffic Items	\$157,000

SUBTOTAL SECTIONS 1-5 \$241,500

PRELIMINARY PROJECT COST ESTIMATE SUMMARY

DIST-CO-RTE 07-LA-110
 KP(PM) 24.73-24.90
 EA 28110K
 PP NO. _____

				Unit Cost	Section Cost
<u>Section 6 Minor Items</u>					
Subtotal Sections 1-5	<u>241,500</u>	X	<u>10.00%</u>	<u>\$24,150</u>	
			(5% - 10%)		
			TOTAL MINOR ITEMS		<u>\$24,150</u>
<u>Section 7 Roadway Mobilization</u>					
Subtotal Sections 1-5	<u>241,500</u>				
Minor Items	<u>24,150</u>				
Sum	<u>265,650</u>	X	<u>10.00%</u>	<u>\$26,565</u>	
			(5% - 10%)		
			TOTAL ROADWAY MOBILIZATION		<u>\$26,565</u>
<u>Section 8 Roadway Additions</u>					
Supplemental					
Subtotal Sections 1-5	<u>241,500</u>				
Minor Items	<u>24,150</u>				
Sum	<u>265,650</u>	X	<u>10.00%</u>	<u>\$26,565</u>	
			(5% TO 10%)		
			TOTAL ROADWAY ADDITIONS		<u>\$79,695</u>
<u>Contingencies</u>					
Subtotal Sections 1-5	<u>241,500</u>				
Minor Items	<u>24,150</u>				
Sum	<u>265,650</u>	X	<u>20.00%</u>	<u>\$53,130</u>	
			()*		
			TOTAL ROADWAY ADDITIONS		<u>\$79,695</u>
			Sound Walls (other NBSSRs)		
			TOTAL ROADWAY ITEMS		<u>\$371,910</u>
			(Total of sections 1-8)		

Estimate Prepared By _____ Phone # (213) 897-5726 Date 2/4/2010
 Tommy Tran

Estimate Checked By _____ Phone # (213) 897-6728 Date 2/4/2010
 Abdol Hajipour

ATTACHMENT I

MEMORANDUM TO BARTON NEWTON AND STRUCTURE REPLACEMENT & IMPROVEMENT NEED (STRAIN) REPORT

Memorandum

*Flex your power!
Be energy efficient!*

To: BARTON NEWTON
Assistant Division Chief
Structures Maintenance and Investigations
Division of Maintenance

Date: March 28, 2007

From: ROBERT A. STOTT *RAS*
Deputy Division Chief
Office of Earthquake Engineering
Structure Design Services &
Earthquake Engineering
Division of Engineering Services

Subject: Bridges with Potential Seismic Vulnerabilities

As recommended by the Seismic Advisory Board in "The Race to Seismic Safety", the Office of Earthquake Engineering (OEE) regularly reviews the inventory of state owned bridges for potential seismic vulnerabilities. Recently, OEE reviewed As-Built plans and Bridge Inspection Reports of state-owned bridges to identify potential vulnerabilities associated with in-span hinge supports. The results of this review are summarized below.

Unrestrained Short In-Span Seat Hinges

As a result of this screening, twelve bridges have been identified as having hinge support lengths of twelve inches or less with no record of being retrofitted with hinge restrainers, pipe seat extenders, or other retrofit measures. [See Attachment 1]. However, because of the possibility that this condition has been addressed during past seismic retrofit projects but is not recorded in the As-Built records for these bridges, it is recommended that a field review to verify the condition of the in-span hinges be conducted. This condition could result in these bridges being vulnerable to unseating under moderate to strong ground motion and immediate remedial action is recommended upon verification. Since As-built records may not be current or may be incomplete, it is possible that not all bridges with potentially vulnerable in-span hinge supports have been identified during the screening review process. As a result, it is recommended that bridges with support lengths less than twelve inches, with no evidence of being retrofitted to address this potential vulnerability, be identified during the biennial bridge maintenance inspection and remedial action taken as required. Currently the use of pipe seat extenders is the preferred method to address this condition. This is one of the most inexpensive and cost effective retrofit measures that Caltrans uses. It is recommended that bridges with unrestrained short seat hinges be given the highest priority for seismic retrofit within the SHOPP program.

BART NEWTON

March 28, 2007

Page 2

Unrestrained Slab Bridge Hinges

In addition, the Office of Earthquake Engineering completed a review of slab bridges with in-span hinges. This screening identified bridges, which utilize a hinge detail that may be vulnerable to loss of support due to seismic ground motion. [See Attachment 2]. Currently no standard method for addressing this situation has been established, although the Office of Earthquake Engineering is reviewing past retrofit records to develop recommended details for addressing this condition. Once the details are developed, these bridges should be added to the SHOPP program.

Existing Grouted Hinge Restrainers

Hinge cable restrainers that have the void around the cable filled with grout may not have adequate elongation capacity to meet the relative hinge displacement demands and as a result could fail prematurely. A review of bridge records identified approximately forty bridges with existing grouted cable restrainers. [See Attachment 3]. A review of the As-Built plans for these bridges indicated that all of them have hinge seats of twelve inches or greater. While this condition is not desirable and should be addressed, the need for remedial action is less urgent than in the case of unrestrained in-span seat hinges with supports of less than twelve inches.

Prioritization of Bridges with Potential Seismic Vulnerabilities Listed in STRAIN

Including the bridges listed above, the Office of Earthquake Engineering has reviewed and prioritized nearly 300 bridges with potential seismic vulnerabilities, including 200 currently listed in the STRAIN database. Each of these bridges has been assigned a seismic retrofit prioritization score and includes a description of their potential seismic vulnerabilities. [See Attachment 4]. In addition, as a result of this review, OEE is recommending the removal of seven bridges from the list of bridges in STRAIN with potential seismic vulnerabilities. [See Attachment 5].

Cc: Kevin Thompson
Mike Keever
Mike Johnson

Attachment 2

Slab Bridges With In-Span Hinges						
Br. Number	Br. Name	County	Route	Seat Length	Final Score	PRA
01 0046	Smith River	Del Norte	101	7"	10.07	0.30
08 0088	Payne's Creek	Tehama	36	7"	6.20	0.20
08 0089	Samson Slough	Tehama	36	7"	6.20	0.20
08 0090	E. Sand Slough	Tehama	36	7"	6.20	0.20
16 0019	Simmerly Creek	Yuba	70	7"	18.24	0.20
18 0017L	Cross Canal	Sutter	99	7"	15.85	0.20
20 0071	Russian River SdHI Via.	Sonoma	116	7"	19.38	0.50
20 0072	Russian River SdHI Via.	Sonoma	116	7"	19.38	0.50
24 0020L/R	Consummes River	Sacramento	99	7"	15.35	0.20
24 0021L/R	Consummes River OvFI	Sacramento	99	7"	6.24	0.20
39 0024R	Fresno River	Merced	152	7"	6.10	0.20
39 0034L/R	Eastside Bypass Ch.	Merced	152	7"	6.14	0.20
39 0090	Los Bancos Creek	Merced	140	7"	12.88	0.40
39 0092	San Joaquin River	Merced	140	7"	12.84	0.40
39 0211	San Joaquin River	Merced	165	7"	9.51	0.30
42 0134	CCID Main Ch.	Fresno	33	7"	6.14	0.20
42 0135	Outside Canal	Fresno	33	7"	6.26	0.20
45 0007	Kings River	King	41	7"	17.05	0.20
45 0064	Kings River	King	43	7"	3.41	0.10
46 0056L	S. Br. Tule River	Tulare	99	7"	7.68	0.10
X 53 0064	Alamitos Bay	Los Angeles	1	7"	60.06	0.70
X 53 2859L	Stadium Way SdHI Via.	Los Angeles	110	7"	19.93	0.60
54 0707L/R	Roadrunner Wash	San Bernardino	40	7"	7.68	0.10
56 0241R	Whitewater River OvFI.	Riverside	111	7"	18.30	0.60
57 0246	Otay River	San Diego	5	7"	23.80	0.70
57 0263	Otay River OvFI.	San Diego	5	7"	24.02	0.70
58 0124	San Filipe Creek	Imperial	78	7"	20.26	0.60

no standard method

STRUCTURE REPLACEMENT AND IMPROVEMENT NEEDS REPORT

SMS15010
SEP, 2009

District : 07

Bridge Number : 53 2859L Total Length: 216.2 Permit Rating: P4PP4 Suff Rating : 75.30
 Feat Intersected: STADIUM WAY Total Width : 3 Rail Rating : 1111 Approach Width: 3
 Structure Name : STADIUM WAY SIDEHILL VIADUCT Location : 07-LA-110-24.73-LA FUNCTIONALLY OBSOLETE

Item	Recom. Date	Project Type	Urgency Factor	Cost	Status	Tech. rank
1	01/16/2007	70 - Seismic-Retrofit	2 years	\$350,000	0 - Proposed	19.93

Project Details :

- 1 Slab bridge with in-span short seat hinges. Priority 2 & 4. Final Score 19.932.

Bridge Number : 53 2934 Total Length: 118.3 Permit Rating: P4PP4 Suff Rating : 82.60
 Feat Intersected: 7TH ST RAMP & UP RR Total Width : 27.9 Rail Rating : 1111 Approach Width: 26.8
 Structure Name : HARBOR SCENIC DRIVE OH Location : 07-LA-710-0-LBCH

Item	Recom. Date	Project Type	Urgency Factor	Cost	Status	Tech. rank
1	03/24/2008	70 - Seismic-Retrofit	2 years	\$1,650,500	0 - Proposed	

Project Details :

- 1 No Plans available. Priority 4. Final Score 0.

Note: Reinstate the Seismic Retrofit Recommendation in 05/28/2007.

Bridge Number : 53 2991 Total Length: 918 Permit Rating: P4000 Suff Rating : 60.00
 Feat Intersected: 3 CITY ST, & 1 CONNECTOR Total Width : 29.3 Rail Rating : 1111 Approach Width: 14
 Structure Name : SANTA MONICA VIADUCT "A" Location : 07-LA-010-14.24-LA FUNCTIONALLY OBSOLETE

Item	Recom. Date	Project Type	Urgency Factor	Cost	Status	Tech. rank
1	07/01/2001	03 - Deck-Rehab	2 years	\$10,000	0 - Proposed	50.49

Project Details :

- 1 Section (A,B,C,D,E,F and G) with more concentration on Section C, D, E and F
 Modify the existing scupper to have more capacity for discharge at exterior rails and provide new deck drain adjacent to existing deck drain at median areas capable of discharging storm water.

ATTACHMENT J
PERFORMANCE INDICATOR

SHOPP Project Performance Output

Update Date:		Source	Program	Fiscal	RTL	Programming Information (\$1,000)			
District - County - Rte -PM		EA	PPNO	Code	Year	Date	R/W	Construction	Support
07-LA-110-PM 24.73/24.90		28110K	4274	201-113	2010/11	08/30/12	0.00	\$ 600	\$ 240
Location:						Project Manager: Jiwanjit Palaha			
Project Discription:						HQ Program Manager: Diana Campbell			
PROGRAM	ACCT. CODE 20.XX.	Quantity of Performance Output					After Constr uction	PERFORMANCE units	
		Ten Year Plan	PID	PA&ED	RTL	CCA			
Approval Date									
Construction Cost (\$1,000)			Output Cost (\$1,000)			Output Cost (\$1,000)			
Right of Way Cost (\$1,000)									
Support Cost Cost (\$1,000)									
EMERGENCY RESPONSE									
Major Damage Restoration	201.130							Locations	
Permanent Restoration	201.131							Locations	
COLLISION REDUCTION									
Safety Improvements	201.010							Collision Reduce	
Collision Severity Reduction	201.015							Collision Reduce	
Median Barrier Upgrade	201.020							Centerline Miles	
MANDATES									
Relinquishments	201.160							Lane Miles	
Noise Attenuation for Schools	201.270							Locations	
Railroad	201.325							Locations	
Hazardous Waste Mitigation	201.330							Locations	
Storm Water	201.335							Acres Treated / Pollutant	
ADA Compliance	201.361							Curb Ramps	
SHOPP TEA	201.736							Locations	
BRIDGE PRESERVATION									
Bridge Rehabilitation	201.110							Bridges	
Bridge Scour Mitigation	201.111							Bridges	
Bridge Rail Replacement/Upgrade	201.112							Linear Feet	
Bridge Seismic Restoration	201.113		600					Bridges: 01	
Bridge Widening	201.114							Bridges	
Trans Permit Requirements for Bridges	201.322							Bridges	
ROADWAY PRESERVATION									
Roadway Rehabilitation (3R)	201.120							Lane Miles	
Pavement Preservation (CAPM)	201.121							Lane Miles	
Pavement Rehabilitation (2R)	201.122							Lane Miles	
Long-Life Pavement Corridors (4R)	201.125							Lane Miles	
Roadway Protective Betterment	201.150							Locations	
Drainage System Restoration	201.151							Cuiverts	
Signs and Lighting Rehabilitation	201.170							Signs Light Fixtures	
MOBILITY									
Operational Improvements	201.310							Daily Vehicle Hours of delay	
Transportation Management Systems	201.315							Field Elements	
Truck Inspection & WIM Facilities	201.321							Miles of fiber Locations	
ROADSIDE PRESERVATION									
Highway Planting Restoration	201.210							Acres	
Freeway Maintenance Access	201.230							Locations	
Roadside Enhancement	201.240							Locations	
Beautification and Modernization	201.245							Centerline Miles	
Safety Roadside Rest Area Restoration	201.250							Locations	
New Safety Roadside Rest Areas	201.260							Locations	
FACILITIES									
Equipment Facilities	201.351							Locations	
Maintenance Facilities	201.352							Locations	
Office Buildings	201.353							Locations	
Materials Lab	201.354							Locations	
Additional Performance Units									
Paved Shoulders									

ATTACHMENT K
STORM WATER DATA REPORT

Short Form - Storm Water Data Report



Dist-County-Route: 07-LA-110
Post Mile (Kilometer Post) Limits: 24.73/24.90 (39.80/40.07)
Project Type: Bridge Seismic Retrofit
EA: 28110K
RU: 07-186
Program Identification: 201-113
Phase: [X]PID []PA/ED []PS&E

Regional Water Quality Control Board(s): Los Angeles Regional Water Quality Control Board- 4

- 1. Is the project required to consider incorporating Treatment BMPs? []Yes [X]No
2. Does the project disturb more than 0.25 acres of soil? []Yes [X]No
3. Is the project part of a Common Plan of Development? []Yes [X]No
4. Does the project potentially create permanent water quality impacts? []Yes [X]No
5. Does the project require a notification of ADL reuse? []Yes [X]No

If the answer to any of the preceding questions is "Yes", prepare a Long Form - Storm Water Data Report.

Estimated Construction Start Date: April-15-2012 Construction Completion Date: Aug-30-2013

Separate Dewatering Permit (if Yes, permit number) []Yes Permit #: []No

This Short Form - Storm Water Data Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based. Professional Engineer or Landscape Architect stamp required at PS&E.

Abdol Hajipour, Registered Project Engineer/Landscape Architect
March-02-2010
Date

I have reviewed the storm water quality design issues and find this report to be complete, current, and accurate:

STAMP
[Required for PS&E only]

Shirley Pak, District/Regional SW Coordinator or Designee
3/3/2010
Date



1. Project Description

- This Project Scope Summary Report proposes to seismically retrofit the Stadium Way Sidehill Viaduct, Bridge No. 53-2859L. This project is located on Southbound Route 110, a north/south interstate freeway connecting City of Pasadena to City of Los Angeles. The structure has an inadequate seismic rating as indicated in the Structure Replacement and Improvement Need (STRAIN) Report. It is recommended to seismically retrofit this structure by extending the hinge seats. Holes will be drilled at the deck that will require temporary lane closure. The preassembled seat extenders will be fastened beneath the structure. Therefore, this project does not have the potential to create water quality impacts when all jobs are performed on the structure only.
- The total soil disturbance area is 0.039 acre. There are seven hinges that require extend hinge seats. The area was calculated by approximating the area that equipments take place would be working underneath each hinge (12' x 20').
- This project is not located within any drinking water reservoirs and/or rechargeable facilities.
- There is no 401 Certification for this project.
- The project limit is within Los Angeles River Watershed. The Los Angeles River Reach 2 Water Body is a 303(d) nearest receiving water body. The pollutants of concern include: Coliform Bacteria, Oil, Trash, Ammonia, Lead and Nutrients (Algae).

Los Angeles River Trash TMDL

The Los Angeles River Trash TMDL became effective August 28, 2002. Caltrans is proceeding with Trash TMDL Implementation Projects, which are to retrofit Gross Solid Removal Devices (GSRDs) at the existing drainage outfalls in the rights-of-way. Table A lists those Trash TMDL Implementation Projects that are either in construction or completed. Any projects that overlap within the limits of freeway corridors listed in Table A are not required to consider GSRDs for those overlapping limits. However, Project Engineers shall consider placing infiltration basins or media filters as much as possible in lieu of GSRDs at existing and proposed drainage systems.

Table A

EA	Route	PM		Status
		From	To	
226611	405	30.31	36.15	completed
226711	60	2.7	6.6	completed
	710	22.5	23.8	
2266A1	5	27.62	28.15	completed
	10	9.02	13.82	
	90	1.84	2.70	
2267A1	10	5.59	8.80	In construction
	91	10.25	13.88	
	105	8.25	13.15	
	110	21.65	23.61	
231311	2	15.40	21.46	completed
	101	7.21	7.21	
	170	14.78	19.92	
	134/710	13.34	13.34	
	210	22.73	23.88	
235901	405	25.46	29.41	In construction
	5	16.35	16.35	
	101	12.70	26.50	
	134	0.00	9.86	



Short Form - Storm Water Data Report

Los Angeles River Nitrogen Compounds and Related Effects TMDL

The Los Angeles River Nitrogen Compounds and Related Effects TMDL became effective March 23, 2004. The TMDL requires the Storm Water NPDES Permittees to submit a Monitoring Work Plan by March 23, 2005 to estimate nitrogen loadings associated with runoff from the storm drain systems. County of Los Angeles has submitted the Monitoring Work Plan as required on behalf of Caltrans and other Storm Water NPDES Co-Permittees in the watershed. Targeted pollutants are Total ammonia as nitrogen (NH₃-N), Nitrate-nitrogen (NO₃-N), nitrite-nitrogen (NO₂-N), and Nitrate nitrogen plus nitrite-nitrogen (NO₃-N + NO₂-N). The Department's monitoring data depicts Caltrans discharges to be below the TMDL limits, thus no additional measures are needed to be considered for meeting the conditions of the Nitrogen TMDL.

Los Angeles River and Tributaries Metals TMDL

The Los Angeles River and Tributaries Metals TMDL became effective on January 11, 2006. Caltrans will work with 5 groups of Responsible Agencies toward compliance of the TMDL. Targeted Pollutants are total Cu, Pb, Zn, Cd and Se.

- The project limits fall within an urban MS4 (Los Angeles County).
- Total estimated cost of this project is \$0.6 Million.

2. Construction Site BMPs

- A WPCP would be required since the disturbed soil area is less than one (1) acre.
- According to Appendix C of Caltrans' Storm Water Handbook: Project Planning and Design Guide, the Construction Site BMPs for this project are typically as follow: Preserve existing vegetation to provide effective erosion control, gravel bags barrier, wind erosion control, Street Sweeping and Vacuum, spill prevention and control, solid waste management, hazardous waste management, sanitary/septic waste management, material delivery and storage, material use, vehicle and equipment cleaning, vehicle and equipment fueling, vehicles and equipment maintenance, water conservation practices, stockpile management, and storm drain protection.
- The proposed construction Storm Water BMP were approved by Aythem A Al-Saleh District 7 Storm Water coordinator on Feb. 25, 2010.
- Per Appendix F, table F-3 (3.25% of total Construction Cost not including Right of Way), a total amount of \$19,500 is allocated for Construction Site BMPs.

REQUIRED ATTACHEMENTS

- Vicinity Map
- Evaluation Documentation Form

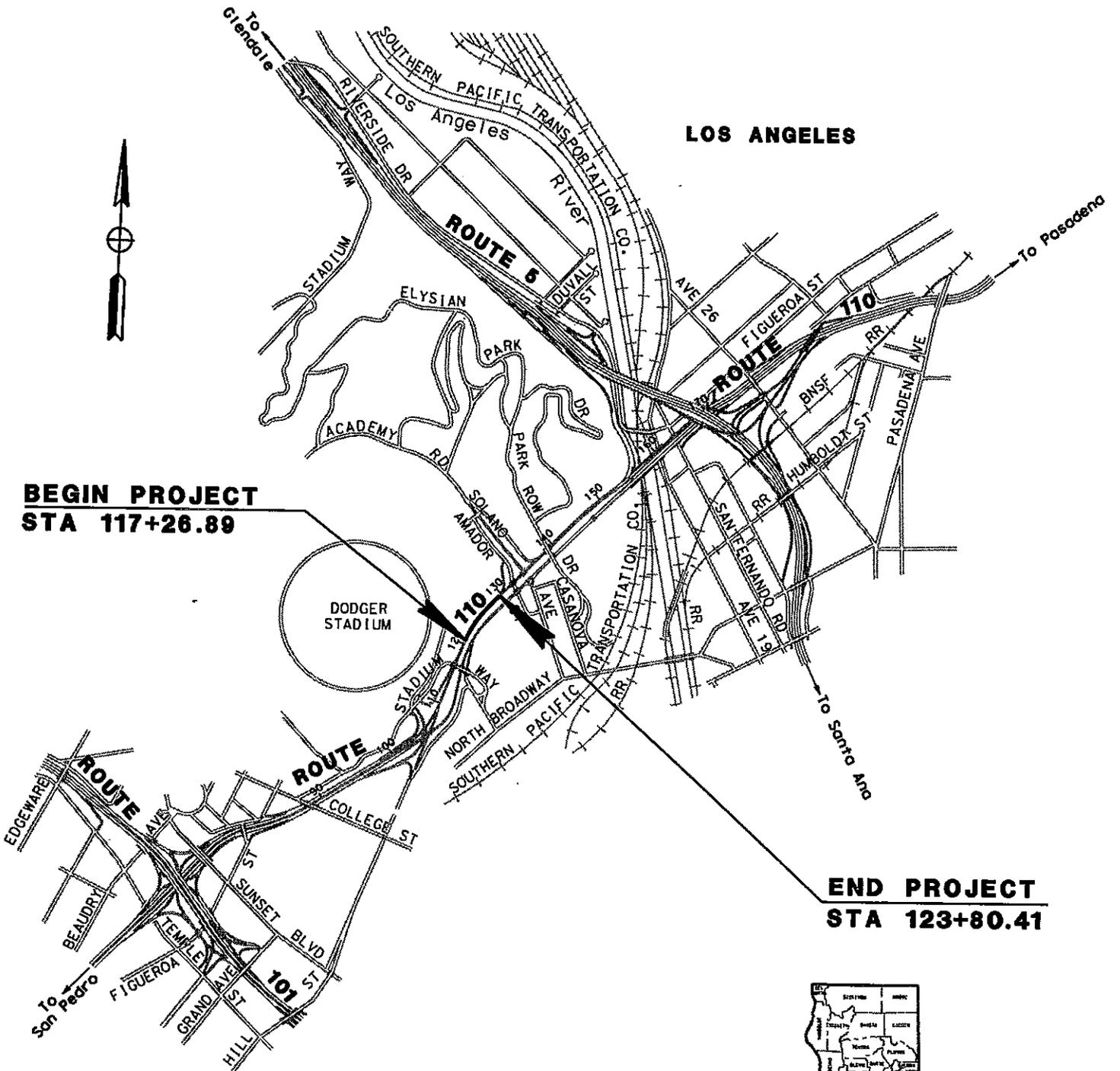




LOS ANGELES

**BEGIN PROJECT
STA 117+26.89**

**END PROJECT
STA 123+80.41**



**EA: 28110K
07-LA-110 PM24.73/ 24.90
VICINITY MAP
NO SCALE**



Evaluation Documentation Form

DATE: 01/21/2010

See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs

EA: 28110K

NO.	CRITERIA	YES	NO	SUPPLEMENTAL INFORMATION FOR EVALUATION
1.	Begin Project Evaluation regarding requirement for consideration of Treatment BMPs	<input checked="" type="checkbox"/>		Go to 2
2.	Is this an emergency project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes , go to 11. If No , continue to 3.
3.	Have TMDLs or other Pollution Control Requirements been established for surface waters within the project limits? Information provided in the water quality assessment or equivalent document.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes , contact the District/Regional NPDES Coordinator to discuss the Department's obligations under the TMDL (if Applicable) or Pollution Control Requirements, go to 10 or 4. <i>M.S.P.</i> (Dist./Reg. SW Coordinator initials) 9/2/10 If No , continue to 4.
4.	Is the project located within an area of a local MS4 Permittee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes . (Los Angeles County), go to 5. If No , document in SWDR go to 5.
5.	Is the project directly or indirectly discharging to surface waters?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes , continue to 6. If No , go to 11.
6.	Is this a new facility or major reconstruction?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes , continue to 8. If No , go to 7.
7.	Will there be a change in line/grade or hydraulic capacity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes , continue to 8. If No , go to 11.
8.	Does the project result in a <u>net increase of one acre or more of new impervious surface</u> ?	<input type="checkbox"/>	<input type="checkbox"/>	If Yes , continue to 10. If No , go to 9. <i>0 Acre (Net Increase New Impervious Surface)</i>
9.	Is the project part of a Common Plan of Development?	<input type="checkbox"/>	<input type="checkbox"/>	If Yes , continue to 10. If No , go to 11.
10.	Project is required to consider approved Treatment BMPs.	<input type="checkbox"/>		See Sections 2.4 and either Section 5.5 or 6.5 for BMP Evaluation and Selection Process. Complete Checklist T-1 in this Appendix E.
11.	Project is not required to consider Treatment BMPs. <i>S.P.</i> (Dist./Reg. SW Coord. Initials) <i>[Signature]</i> (Project Engineer Initials) <i>3/02/2010</i> (Date)	<input checked="" type="checkbox"/>		Document for Project Files by completing this form, and attaching it to the SWDR.

See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs



ATTACHMENT L
TRANSPORTATION MANAGEMENT PLAN

TRANSPORTATION MANAGEMENT PLAN DATA SHEET

(Preliminary TMP Elements and Costs)

Co/Rte/PM LA-110-PM 24.73/24.90 EA 28110K Alternative No. _____
 Project Limit In the city of Los Angeles, Los Angeles County on the SB Rte 110 between Stadium Way and Solano Ave
 Project Description Seismic Retrofit Stadium Way Hillside Viaduct, Bridge No. 53-2859L

1) Public Information

- a. Brochures and Mailers \$ _____
- b. Press Release _____
- c. Paid Advertising \$ _____
- d. Public Information Center/Kiosk \$ _____
- e. Public Meeting/Speakers Bureau _____
- f. Telephone Hotline _____
- g. Internet _____
- h. Others \$ _____

2) Motorists Information Strategies

- a. Changeable Message Signs (Fixed) \$ _____
- b. Changeable Message Signs (Portable) \$ _____
- c. Ground Mounted Signs \$ _____
- d. Highway Advisory Radio \$ _____
- e. Caltrans Highway Information Network (CHIN) _____
- f. Others \$ _____

3) Incident Management

- a. Construction Zone Enhanced Enforcement Program (COZEEP) \$30,000.00
- b. Freeway Service Patrol \$ _____
- c. Traffic Management Team _____
- d. Helicopter Surveillance \$ _____
- e. Traffic Surveillance Stations (Loop Detector and CCTV) \$ _____
- f. Others \$ _____

4) Construction Strategies

- a. Lane Closure Chart
- b. Reversible Lanes
- c. Total Freeway Mainline Closure
- d. Extended Weekend Closure
- e. Contra Flow
- f. Truck Traffic Restrictions \$ _____
- g. Reduced Speed Zone \$ _____
- h. Connector and Ramp Closures
- i. Incentive and Disincentive \$ _____
- j. Moveable Barrier \$ _____
- k. Others \$ _____

5) Demand Management

- a. HOV Lanes/Ramps (New or Convert) \$ _____
- b. Park and Ride Lots \$ _____
- c. Rideshare Incentives \$ _____
- d. Variable Work Hours
- e. Telecommute
- f. Ramp Metering (Temporary Installation) \$ _____
- g. Ramp Metering (Modify Existing) \$ _____
- h. Others \$ _____

6) Alternative Route Strategies

- a. Add Capacity to Freeway Connector/Ramps \$ _____
- b. Street Improvement (widening, traffic signal... etc) \$ _____
- c. Traffic Control Officers \$ _____
- d. Parking Restrictions
- e. Others \$ _____

7) Other Strategies

- a. Application of New Technology \$ _____
- e. Others \$ _____

TOTAL ESTIMATED COST OF TMP ELEMENTS =

\$30,000.00

Project Notes:

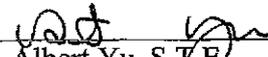
1. Public Affairs Campaign cost estimate of \$0.00 was provided by Judy Gish, Public Information Officer, Caltrans Office of Public Affairs and Media Relations, on 10/08/09.
2. COZEEP cost estimate of \$30,000.00 was provided by Amjad Obeid, Construction Traffic Advisor-South, on 10/12/09.
3. It is anticipated work will be performed with nightly lane closure.

PREPARED BY


Raymond Shehata, T.E.

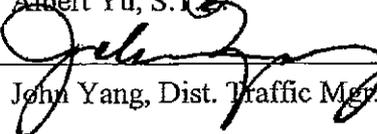
DATE 10/20/09

APPROVAL RECOMMENDED BY


Albert Yu, S.T.E.

DATE 10-20-09

APPROVED BY


John Yang, Dist. Traffic Mgr.

DATE 10/20/09

Preliminary Chart
EA:28110K

Chart No. 1 Freeway Lane Requirements and Hours of Work																										
County: Los Angeles										Route/Direction: 110/SB																
Closure Limits: Stadium Way to Hill Street off-ramp																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		1	1	1	1	1	S	N	N	N	N	N	N	N	N	N	N	N	N	N	N	4	4	2	2	1
Fridays		1	1	1	1	1	S	N	N	N	N	N	N	N	N	N	N	N	N	N	N	4	4	4	4	2
Saturdays		1	1	1	1	1	1	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2
Sundays		1	1	1	1	1	1	1	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	1
Legend:																										
1		Provide at least one through freeway lane open in direction of travel																								
2		Provide at least two adjacent through freeway lanes open in direction of travel																								
4		Provide at least four adjacent through freeway lanes open in direction of travel																								
S		Shoulder closure permitted																								
N		No work permitted																								
REMARKS: Number of Through Traffic Lanes - 5																										

ATTACHMENT M
STRATEGY MEETING MINUTES

**Strategy Meeting Minutes
(Project Scoping Field Meeting Notes)**

Date: August 23, 2009

**File: 07-LA-110, EA 28110K, PM 24.73-24.90
Stadium Way Sidehill, S/B Route 110,
Los Angeles, Seismic Retrofit**

Participants:

Abdol Hajipour	Project Engineer, Office of Project and Special Studies
Matt Malouf	TE, Office of Project and Special Studies
Tommy Tran	TE, Office of Project and Special Studies
Fracis Lam	Constructability Reviewer
Paul Stevens	Program Manager

A meeting was conducted at the Stadium Way Sidehill OC of Route 110 on August 23, 2009. Abdol expressed the project proposal is to seismically retrofit the hinges as recommended in the Structural Replacement and Improvement Need (STRAIN) report. The representatives mentioned above, conformed to seismically retrofit the structure as recommended in the STRAIN report.

Paul Stevens suggested adding cost of the reconstruction of Right of Way Fence to the cost estimate. \$5,000 will be added to Cost Estimate for this item (Attachment H). Several pictures were taken from the site and completed the Site Visit.

On November 05, 2009, a HQ Structure Engineer Lihua Han visited the site with Abdol Hajipour for preparing the APS. Abdol pointed to some locations that seem to have leaking drainage pipe. Han said he will include the cost of these leaking drainage pipes in the APS. More pictures were taken from the above drainage pipes.

Abdol Hajipour PE
Project Engineer-