

AGENDA

Board of Directors Metro Valley Study Session

February 12, 2015

*****Start Time: 9:30 AM*****

Location

SANBAG

First Floor Lobby

1170 W. 3rd Street, San Bernardino, CA 92410

Board of Directors

Valley Representatives

Study Session Chair

Michael Tahan, Mayor Pro Tem
City of Fontana

Study Session Vice-Chair

Ray Musser, Mayor
City of Upland

Dennis Yates, Mayor
City of Chino

Ed Graham, Council Member
City of Chino Hills

Frank Navarro, Council Member
City of Colton

Darcy McNaboe, Mayor
City of Grand Terrace

Larry McCallon, Mayor
City of Highland

Rhodes "Dusty" Rigsby, Mayor
City of Loma Linda

Paul M. Eaton, Mayor
City of Montclair

Alan Wapner, Mayor Pro Tem
City of Ontario

L. Dennis Michael, Mayor
City of Rancho Cucamonga

Jon Harrison, Mayor Pro Tem
City of Redlands

Deborah Robertson, Mayor
City of Rialto

R. Carey Davis, Mayor
City of San Bernardino

Dick Riddell, Council Member
City of Yucaipa

Mountain/Desert Representatives

Rich Kerr, Mayor
City of Adelanto

Curt Emick, Council Member
Town of Apple Valley

Julie McIntyre, Mayor
City of Barstow

Ryan McEachron, Council Member
City of Victorville

Bill Jahn, Mayor Pro Tem
City of Big Bear Lake

Mike Leonard, Council Member
City of Hesperia

Edward Paget, Mayor
City of Needles

Joel Klink, Mayor
City of Twentynine Palms

George Huntington, Mayor
Town of Yucca Valley

County Board of Supervisors

Robert Lovingood, First District

Janice Rutherford, Second District

James Ramos, Third District

Curt Hagman, Fourth District

Josie Gonzales, Fifth District

Ex-Officio Member - Basem Muallem, Caltrans District 8 Director

Ray Wolfe, SANBAG Executive Director

Eileen Teichert, SANBAG General Counsel

San Bernardino Associated Governments
County Transportation Commission
County Transportation Authority
County Congestion Management Agency
Service Authority for Freeway Emergencies

AGENDA

Board of Directors Metro Valley Study Session

February 12, 2015

9:30 AM

Location

**First Floor Lobby
1170 W. 3rd Street, San Bernardino, CA 92410**

CALL TO ORDER

(Meeting Chaired by Michael Tahan)

- i. Pledge of Allegiance
- ii. Attendance
- iii. Announcements
- iv. Agenda Notices/Modifications - Melonie Donson

Possible Conflict of Interest Issues

Note agenda item contractors, subcontractors and agents which may require member abstentions due to conflict of interest and financial interests. Board Member abstentions shall be stated under this item for recordation on the appropriate item.

1. Information Relative to Possible Conflict of Interest

Note agenda items and contractors/subcontractors, which may require member abstentions due to possible conflicts of interest.

This item is prepared monthly for review by SANBAG Board and Committee members.

CONSENT CALENDAR

Items listed on the Consent Calendar are expected to be routine and non-controversial. The Consent Calendar will be acted upon as a single motion. Items on the Consent Calendar may be removed for discussion by Board Members.

Consent - Project Delivery

- 2. Construction Contract Change Orders to on-going SANBAG Construction Contracts with Pacific Restoration Group Inc., Natures Image, Inc., KASA Construction, Inc., Ortiz Enterprises, Inc., Skanska/Rados A Joint Venture, Financial Pacific Insurance Company, Skanska USA Civil West and Riverside Construction Company, Inc.**

Receive and file change order report.

Garry Cohoe

This item is not scheduled for review by any other policy committee or technical advisory committee.

DISCUSSION ITEMS

Discussion - Administrative Matters

- 3. Budget Overview for Proposed Budget Fiscal Year 2015/2016**

Recommend the Metro Valley Study Session receive general overview of the proposed budget for Fiscal Year 2015/2016.

Bill Stawarski

This item will be reviewed by the Mountain/Desert Committee on February 20, 2015.

Discussion - Project Delivery

- 4. Interstate 10 Citrus Avenue Interchange Establish Existing Planting (EEP) Maintenance Project**

That the following be reviewed and recommended for final approval by the Board of Directors, acting in its capacity as the San Bernardino County Transportation Commission, at a regularly scheduled Board meeting.

A. Approve the Plans, Specifications, and Estimate, and authorize advertising Invitation for Bids 15-1001190 for the Interstate 10 Citrus Avenue Interchange Four Year Establish Existing Planting Maintenance Project.

B. Approve taking the recommendation for award of the maintenance contract directly to the Board without prior Metro Valley Study Session review.

Mike Barnum

This item is not scheduled for review by any other policy committee or technical advisory committee. This item, but not the IFB, has been reviewed by SANBAG General Counsel.

5. Construction Management Services for Landscape Maintenance Projects on Interstate 10 at Tippecanoe Avenue, Cherry Avenue and Citrus Avenue Interchange Projects

That the following be reviewed and recommended for final approval by the Board of Directors, acting as the San Bernardino County Transportation Authority, at a regularly scheduled Board meeting:

A. Authorize the release of Request for Proposal (RFP) 14181 for Construction Management Services for Landscape Maintenance on Interstate 10 for Tippecanoe Avenue Phases 1 & 2, Cherry Avenue and Citrus Avenue Interchange projects.

B. Authorize a waiver of Policy 11000 Section V. Standard Procedures, Paragraph F to extend the maximum term for the contract to be awarded, from five (5) years to eight (8) years to coordinate with extended landscape maintenance periods.

Mike Barnum

This item is not scheduled for review by any other policy committee or technical advisory committee. SANBAG General Counsel and the Procurement Manager have reviewed this item and a draft of the Scope of Work.

6. State Route 60 and Central Avenue Interchange Professional Services Contract Approval

That the following be reviewed and recommended for final approval by the Board of Directors, acting in its capacity as the San Bernardino County Transportation Authority, at a regularly scheduled Board meeting:

A. Approve award of Contract No. C14045 with AECOM Technical Services, Inc. for SR-60 Central Avenue Interchange Project Professional Services for the preparation of the Project Study Report/Project Report, Environmental Document, Plans, Specifications and Estimate, and support services during the right-of-way and construction phases in an amount not-to-exceed \$2,012,549.64.

B. Approve a contingency amount for Contract No. C14045 of \$201,255.00 and authorize the Executive Director or designee to release contingency as necessary for the project.

Garry Cohoe

This item is not scheduled for review by any other policy committee or technical advisory committee. This item and the draft contract have not been reviewed by SANBAG General Counsel.

Discussion - Regional/Subregional Planning

7. Development Mitigation Nexus Study and Equitable Share Percentages for the Valley Major Street Arterial Program

That the following be reviewed and recommended for final approval by the Board of Directors, acting in its capacity as the San Bernardino County Transportation Authority, at a regularly scheduled Board meeting:

A. Approve a technical correction to the Development Mitigation Nexus Study and the equitable share percentages for the Measure I Valley Major Street Arterial Program. The correction is to modify the development share (fair share) percentage for the City of Upland from 48.3% to 39.4% and to update the equitable share percentages as shown in Column E of Attachment 1.

B. Approve a revision to the formula-based cumulative allocations (Fiscal Year 2010-2011 to Fiscal Year 2014-2015) for the Valley Major Street Arterial Sub-program as shown in Column I of Attachment 1.

Steve Smith

This item is not being reviewed by any other policy committee. The substance of this item was reviewed by the Transportation Technical Advisory Committee on January 5, 2015 and February 2, 2015.

Comments from Board Members

Brief Comments from Board Members

Public Comment

Brief Comments by the General Public

ADJOURNMENT

Additional Information

Attendance

SANBAG Entities

Meeting Procedures and Rules of Conduct

General Practices for Conducting Meetings

Acronym List

Mission Statement

The next Board of Directors Metro Valley Study Session will be

March 12, 2015

Complete packages of the SANBAG agenda are available for public review at the SANBAG offices and our website: www.sanbag.ca.gov. Staff reports for items may be made available upon request. For additional information call (909)884-8276.

Minute Action

AGENDA ITEM: 1

Date: February 12, 2015

Subject:

Information Relative to Possible Conflict of Interest

Recommendation:

Note agenda items and contractors/subcontractors, which may require member abstentions due to possible conflicts of interest.

Background:

In accordance with California Government Code 84308, members of the SANBAG Board may not participate in any action concerning a contract where they have received a campaign contribution of more than \$250 in the prior twelve months from an entity or individual, except for the initial award of a competitively bid public works contract. This agenda contains recommendations for action relative to the following contractors:

Item No.	Contract No.	Principals & Agents	Subcontractors
2-A	C13089	Pacific Restoration Group, Inc. <i>John Richards</i>	None
2-B	C13153	Nature's Image <i>Michelle Caruana</i>	None
2-C	C13002	KASA Construction <i>Diana Kasbar</i>	MSL Electric, Inc. Quality Hydroseeding & Restoration Treesmith Enterprises, Inc. Turboscape, Inc.
2-D	C12224	Ortiz Enterprises, Inc. <i>Patrick A. Ortiz</i>	Alcorn Fence Company Bithell, Inc. Cal-Stripe, Inc. CGO Construction Cooper Engineering Coral Construction Corelab Structure Diversified Landscape Griffith Company Harber Companies Hardy & Harper

Entity: CMA, COG, CTA, CTC, SAFE

			<p>Hydro Sprout Integrity Rebar Placers L. Johnson Construction, Inc. Lincoln Pacific Mahaffey Companies Rogan Concrete Coring & Sawing SRD Engineering, Inc. Statewide Traffic Survey Safety & Signs Superior Gunitite Truesdell Corporation West Coast Welding, Inc.</p>
2-E	C09196	<p>Skanska/Rados Joint Venture <i>Chad Mathes</i></p>	<p>All American Asphalt Anderson Drilling CGO Construction Chrisp Company Coffman Specialties Cleveland Wrecking CMC Fontana Steel D C Hubbs Dywidag-Systems Int. Elmore Pipe Jacking Foundation Pile, Inc. Gerco Contracting Giken America Corp. Robert B. Longway Malcom Drilling Co, Inc. Merli Concrete Pumping Modern Alloy MSL Electric, Inc. Olivas Drilling Pacific Restoration Group Penhall Pomeroy Reycon Construction, Inc. Southwest V-ditch Statewide Safety & Sign Steve Bubalo Construction Valley Concrete Placing, Inc. VP</p>

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			Vertical Earthwork
2-F	C13093	Financial Pacific Insurance Company <i>Laurie Hants</i>	None
2-G	C11184	Skanska USA Civil West <i>Tim Wilson</i>	Ace Fence Company Anderson Drilling Empire Steel J.P. Stripping, Inc. J.V. Land Clearing Marina Landscape, Inc. MCL Electric Municon Consultants Reycon Construction, Inc. Statewide Safety & Signs Tipco Engineering
2-H	C13108	Skanska USA Civil West <i>Jeffrey Langevin</i>	Chrisp Company Dywidag-Systems Int. Fence Corporation, Inc. Hayward Banker Integrity Rebar Placers Josh S. Meek Company, Inc. Ferreria Construction Company, Inc. R. Dugan Construction, Inc. Rock Structures Construction Co. Sierra Landscape Development, Inc.
2-I	C13121	Riverside Construction Company, Inc. <i>Donald Pim</i>	Caliagua Chrisp Company C.P. Construction Crown Fence Griffith Company Golden State Highlight Electric Integrity Rebar Placers J.V. Land Clearing Malcolm Drilling Company Match Corporation Old Castle Precast Pacific Waterproofing Reycon Construction

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6	C14045	AECOM Technical Services <i>Chuck Tran</i>	Arellano Associates Diaz Yourman & Associates ICF International Lin Consulting Overland Pacific & Cutler Psomas
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Financial Impact:

This item has no direct impact on the SANBAG budget.

Reviewed By:

This item is prepared monthly for review by SANBAG Board and Committee members.

Responsible Staff:

Garry Cohoe, Director of Project Delivery

Approved
Board of Directors Metro Valley Study Session
Date: February 12, 2015

Witnessed By:

Minute Action

AGENDA ITEM: 2

Date: *February 12, 2015*

Subject:

Construction Contract Change Orders to on-going SANBAG Construction Contracts with Pacific Restoration Group Inc., Natures Image, Inc., KASA Construction, Inc., Ortiz Enterprises, Inc., Skanska/Rados A Joint Venture, Financial Pacific Insurance Company, Skanska USA Civil West and Riverside Construction Company, Inc.

Recommendation:

Receive and file change order report.

Background:

Of SANBAG's thirteen on-going construction contracts in the Metro Valley, nine have had Construction Change Orders (CCO's) approved since the last reporting to the Board Metro Valley Study Session. The CCO's are listed below.

A. Contract Number (CN) C13089 with Pacific Restoration Group, Inc. for Establish Existing Planting on the SR-210 Segment 8 Landscaping project: CCO No. 1 (\$15,000.00 increase for placement of erosion control binder on slopes for protection from storm runoff).

B. CN C13153 with Natures Image, Inc. for Establish Existing Planting on the SR-210 Segments 9 and 10 Landscaping projects: CCO No. 3 (\$1,500.00 increase for repair work of leaking backflow preventer and water meter).

C. CN C13002 with KASA Construction, Inc. for construction of the SR-210 Segment 11 Landscaping project: CCO No. 6 Supplement 1 (\$1,181.90 increase in funds for flagging and traffic control work as specified in the Standard Specifications) and CCO No. 7 Supplement 1 (\$5,342.31 for additional equipment required for wireless connection of irrigation controller to Caltrans fiber optic backbone).

D. CN C12224 with Ortiz Enterprises, Inc. for construction of the I-10 Cherry Avenue Interchange project: CCO No. 6 Supplement 1 (\$10,000.00 additional funds for Dispute Resolution Board as required in the contract Special Provisions) and CCO No. 50 (\$4,825.44 increase for payment for concrete barrier anchor block required per contract but with no payment clause in the Special Provisions).

E. CN C09196 with Skanska/Rados A Joint Venture for construction of the I-215 Segments 1 and 2 Interstate reconstruction project: CCO No. 1 Supplement 8 (\$15,313.38 additional funds for work performed on CCO No. 1), CCO No. 18 Supplements 9 and 10 (\$0.00 and \$190.22 increase respectively for determination of zero additional days and increase in funds for work performed on CCO No. 18), CCO No. 64 Supplement 7 (\$27,650.95 additional funds for Right of Way obligations), CCO No. 92 Supplement 1 (\$1,306.16 additional funds for work performed at the intersection of Baseline and H Streets), CCO No. 121 Supplement 6 (\$1,152.98 additional funds for installation of pull box anti-theft devices), CCO No. 158 Supplement 4

Entity: CTA, CTC

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(\$9,629.13 additional funds for reconstruction of Jointed Plain Concrete Pavement and installation of grated line drain), CCO No. 170 Supplement 2 (\$115,965.86 additional funds for exporting excess soil from site of old 13th Street off ramp), CCO No. 199 Supplement 2 (\$56,141.50 additional funds for work performed on CCO No. 199), CCO No. 202 Supplement 1 (\$401.46 additional funds for unit price adjustment for quantity of Bid Item 53) and CCO No. 223 (\$175,000.00 increase for settlement of Notice of Potential Claim No. 19 related to Sign Structure painting and cleaning).

F. CN C13093 with Financial Pacific Insurance Company for the construction of the I-10 Riverside Avenue Interchange Landscaping project: CCO No. 14 (\$837.40 increase for installation of additional quantities of bid items necessary for the project).

G. CN C11184 with Skanska USA Civil West for construction of the Hunts Lane Grade Separation project: CCO No. 54 Supplement 1 (\$7,862.82 decrease for deletion of electrical service conduit due to changes made by Southern California Edison), CCO No. 58 (\$7,565.80 increase for installation of Redwood fence atop masonry wall separating City right of way and adjacent private properties as requested by City of Colton), CCO No. 59 (\$3,418.80 increase for modifications to pavement markings and deletion of cross walks at Riverwood Dr. and Commercial Dr. as requested by the Cities of Colton and San Bernardino), CCO No. 61 (\$411.72 increase for installation of theft proof access panels on street light poles) and CCO No. 62 (\$10,000.00 increase for installation of additional traffic safety items as requested by the City of Colton).

H. CN C13108 with Skanska USA Civil West for construction of the Palm Avenue Grade Separation project: CCO No. 21 (\$88,279.00 increase to compensate contractor for accelerated work performed during a weekend road closure to minimize detouring of traffic while opening of grade separation bridge to traffic) and CCO No. 24 (\$3,380.00 increase for providing and maintaining temporary electrical power for street lighting at new Palm Avenue and Industrial Parkway intersection in conjunction with accelerated weekend work covered by CCO No. 21).

I. CN C13121 with Riverside Construction Company, Inc. for construction of the I-15 Base Line Interchange project: CCO No. 4 (\$10,000.00 increase for the maintenance and repairing of existing and temporary electrical systems as required in the Standard Specifications).

Financial Impact:

This item imposes no financial impact, as all CCOs are within previously approved contingency amounts under Task No's. 0824, 0826, 0838, 0841, 0870, 0874 and 0892.

Reviewed By:

This item is not scheduled for review by any other policy committee or technical advisory committee.

Responsible Staff:

Garry Cohoe, Director of Project Delivery

Approved
Board of Directors Metro Valley Study Session
Date: February 12, 2015

Witnessed By:

I-10 Citrus Interchange – Executed Change Orders		
Number	Description	Amount
001	TRAFFIC CONTROL	\$ 35,000.00
001 S-1	TRAFFIC CONTROL, ADD'L FUNDS	\$ 35,000.00
001 S-2	TRAFFIC CONTROL, ADD'L FUNDS	\$ 30,000.00
002	MAINTAIN IRRIGATION AND LANDSCAPING	\$ 8,000.00
003	WATER POLLUTION CONTROL MAINTENANCE SHARING	\$ 25,000.00
004	PARTNERING	\$ 10,000.00
004 S-1	Additional Funds	10,000.00
005	DISPUTE REVIEW BOARD	\$ 15,000.00
005 S-1	Additional Funds	\$ 5,000.00
006	MAINTAIN EXISTING ELECTRICAL SYSTEMS	\$ 20,000.00
006 S-1	Additional Funds	\$ 5,000.00
006 S-2	Additional Funds	\$8,100.00
007	GRAFFITI REMOVAL	\$ 5,000.00
008	DS-10 REDESIGN AND ALIGN	\$ (143,397.00)
009	REPLACE LOOP DETECTION WITH VIDEO DETECTION	\$ 18,645.00
010	SEWER CONNECTION ON SOUTH CITRUS	\$ 7,945.48
011	REPLACE RSC AND RSLCB IN WB OFF-RAMP TERMINI WITH STANDARD JPCP	\$ (164,877.00)
011 S-1	REPLACE RSC AND RSLCB IN WB OFF-RAMP TERMINI WITH STANDARD JPCP SUPPLEMENT 1	\$ 46,674.75
012	OVER-EXCAVATE AND RE-COMPACT UNDER OH ABUTMENTS AND WW	\$ 11,483.50
013	REPLACE RSC AND RSLCB IN WB OFF-RAMP GORE	\$ (41,180.48)
014	SEPTIC SYSTEM FOR 76 GAS STATION	\$ 36,783.25
015	ROW DELAY FOR ALCORN FENCE	\$ 1,500.00
016	DS-15 CONNECTION TO DS-1	\$ 2,911.33
017	REVISE DWY APPROACHES AND DWYS AT BOYLE CUL-DE-SAC	\$ 11,130.00
017 S-1	REVISE DWY APPROACHES AND DWYS AT BOYLE CUL-DE-SAC, ADDITIONAL FUNDS	\$ 27,000.00
018	REPLACE RSC WITH STANDARD JPCP – WB ON-RAMP GORE	\$ (32,840.80)
019	REPLACE RSC WITH STANDARD JPCP – EB OFF-RAMP GORE	\$ (62,956.58)
020	REPLACE RSC WITH STANDARD JPCP AT WB OFF-RAMP GORE	\$ (21,153.30)
021	NON-COMPENSABLE EXCUSABLE DELAY	\$ 0.00
022	LONGITUDINAL TINING	\$ 8,500.00
023	PAYMENT ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS	\$161,000.00
024	PARAPET HEADWALL HEIGHT CHANGE	\$ 4,000.00
025	76 GAS STATION IMPROVEMENTS	\$ 38,000.00
026	NON-COMPENSABLE EXCUSABLE DELAY – 4 DAYS	\$ 0.00
027	ELECTRICAL WORK	\$ 54,000.00
028	DEMO AND GRADE ON CITRUS AVENUE	\$ (28,022.88)
028 S-1	ADDITIONAL FUNDS FOR TRAFFIC CONTROL	\$ 28,022.88
029	REMOVAL AND DISPOSAL OF MAN-MADE OBJECTS	\$ 26,000.00
029 S-1	Additional Funds	\$ 49,800.00

Bolded Construction Change Orders approved since the last reporting to the Metro Valley Study Sessions Committee

Amounts shown in parentheses represent a credit to the Agency

030	ROCK BLANKET CREDIT	\$ (74,957.08)
032	LANE CLOSURE CHARTS CHANGE	\$ 0.00
033	DS-25 MODIFICATIONS	\$ 38,500.00
034	ADJUSTMENT OF ITEM OVERRUNS	\$ 27,111.10
036	Change in Retaining Wall Type	\$29,883.70
038	Claim Settlement for Differing Site Conditions	\$ 26,400.00
040	DS-1 MODIFICATIONS	\$ 14,000.00
041	TREE REMOVAL AND WATER LINE	\$ 8,500.00
042	RELOCATION OF GAS AND WATER SERVICES	\$ 12,200.00
043	ADA Requirements on Bridge Sidewalk	\$ 26,000.00
043 S-1	Time Adjustment	\$ 0.00
044	Eliminate Rapid-Set Concrete on # 4 lanes	\$ 86,614.00
045	Additional Concrete Swale along RW 795	\$ 9,200.00
046	Fencing and Gates along Residential Properties	\$ 27,247.00
047	Additional Rock Blanket at Bridge Abutment	\$27,000.00
048	Curb and Sidewalk at SW corner Valley/Citrus	\$ 5,200.00
050	MULBERRY CHANNEL ACCESS RAMP	\$ 45,778.00
051	STREET LIGHT POLE BASES	\$ 8,159.00
052	Revise Curb ramps, sidewalks & Ped Buttons for ADA	\$15,000.00
054	I-10 MEDIAN PAVING	\$ 44,500.00
056	Misc. work not covered by contract items	\$40,000.00
057	Concrete Pavement Just-In-Time Training	\$ 1,500.00
058	NOPC No. 6 Resolution	\$ 63,000.00
059	TRAFFIC SIGNAL EQUIPMENT AT SLOVER & VALLEY	\$ 59,787.00
060	Caltrans Safety comments EB on ramp	\$ 35,000.00
061	Remove Pedestrian Crossing features	\$35,000.00
CCO TOTAL		\$ 860,690.87
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$5,726,000.00

I-10 Cherry Interchange – Executed Change Orders		
Number	Description	Amount
1	Additional Traffic Control System	\$35,000.00
2	Maintain Existing Irrigation System	\$5,000.00
2 S-1	Additional Funds	\$25,000.00
3	Water Pollution Control Maintenance Sharing	\$20,000.00
4	Additional Striping and Temporary Pavement	\$30,000.00
4 S-1	Additional Striping - Supplement 1	\$15,000.00
4 S-2	Additional Striping – Supplement 1	\$ 30,000.00
5	SWPPP Change of Risk Level	(\$39,090.00)
6	Dispute Review Board	\$15,000.00
6 S-1	Additional Funds	\$10,000.00
7	Partnering	\$20,000.00
8	Compliance with Right-of-way Obligations	\$60,000.00
8 S-1	Compliance with Right-of-way Obligations – Suppl. 1	\$60,000.00
8 S-2	Compliance with Right-of-way Obligations – Suppl. 2	\$100,000.00
9	Graffiti removal	\$15,000.00
9 S-1	Graffiti removal – Supplement 1	\$25,000.00
10	Maintain Existing Electrical System	\$10,000.00
10 S-1	Maintain Existing Electrical System – Supplemental 1	\$20,000.00
11	Spillway Drainage Connection to DS-1	\$25,000.00
11 S-1	Spillway Drainage Connection to DS-1 – Sup. 1	\$13,000.00
11 S-2	Additional Funds	\$18,000.00

Bolded Construction Change Orders approved since the last reporting to the Metro Valley Study Sessions Committee

Amounts shown in parentheses represent a credit to the Agency

Attachment: CCO Logs (1609 : Construction Contract Change Orders MVSS1502)

12	Temporary Light Poles	\$20,000.00
13	Remove Existing Sign Structure	\$10,260.00
14	Compensation for Row Obstruction (Leach Tank)	\$10,780.00
15	Revision to Contract Special Provisions for Remove Tree	\$0.00
16	RW 680 Footing Modifications	(\$21,490.00)
17	Remove Existing Asbestos Pipe	\$10,797.00
19	Regular PCCP in lieu of Rapid Set Concrete	(\$152,296.00)
18	Realign 96" RCP	\$49,991.01
20	Driveway for Truck Stop Facility	\$0.00
21	Remove Tree Item Adjustment	\$103,187.55
22	Change in Alignment for SW 697	\$0.00
23	Modified Concrete Barrier for Light Poles	\$25,000.00
23 S-1	Additional Funds	\$35,000.00
24	Removal and Disposal of Man-made Buried Objects	\$5,000.00
24 S-1	Additional Funds	\$55,000.00
25	Additional Grout at Sound wall 697	\$5,000.00
26	New Drainage System at RW 33	\$5,199.50
27	Modifications to Drainage System No. 1 channel wall	\$21,477.30
28	Just-In-Time-Training	\$1,110.00
29	Maintain Existing Drainage System	\$20,000.00
29 S-1	Additional Funds	\$30,000.00
30	Modifications to Drainage Systems	(\$115,480.50)
31	Payment to Edison	\$10,000.00
32	Various Unforeseen Additional Work	\$30,000.00
32 S-1	Additional Funds	\$30,000.00
33	Electrical Revisions for MSE wall	\$46,447.28
35	Increase in Various Items	\$73,234.66
36	Joint Armor for Bridge Sidewalks	\$13,000.00
37	Revisions to Rock Blanket Thickness	(\$154,335.02)
37 S-1	Replace Rock Blanket with 2 1/2 " Gravel	(\$23,100.00)
38	Revise SP's for Payment for Removal of Temp. Striping	\$20,000.00
40	Rush Truck Center Parking Lot	\$45,000.00
42	Pedestrian Access to Bridge	\$20,000.00
43	Type 60C Barrier and Shotcrete along W/B off ramp	\$35,000.00
45	Lower Fiber Optics & Drainage Systems for Roadway	\$60,461.12
46	Temp. Electrical feed for Street Lighting for Stage 1A	\$17,000.00
50	Concrete Barrier Anchor Block	\$4,825.44
51	Traffic Signal Equipment for Slover and Valley	\$71,082.80
54	Stage 3B Construction Changes	(\$45,206.82)
54 S-1	Additional Stage Construction Changes	(\$104,722.20)
CCO TOTAL		\$779,133.12
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$5,282,319.79

Attachment: CCO Logs (1609 : Construction Contract Change Orders MVSS1502)

Palm Avenue Grade Separation – Executed Change Orders		
Number	Description	Amount
1	Delayed Start	\$ 0.00
1 S-1	Partial Suspension of Work due to Utility Delays	\$ 0.00
2	Additional Hoop rebar for CIDH Piles	\$ 1,310.00
3	Additional SWPPP Measures and SWPPP Maintenance	\$ 50,000.00

Bolded Construction Change Orders approved since the last reporting to the Metro Valley Study Sessions Committee

Amounts shown in parentheses represent a credit to the Agency

3 S-1	Additional Funds	\$ 11,406.00
4	Additional Traffic Control	\$ 25,000.00
5	Modify Contract language to remove Barstow	\$ 0.00
6	Modification to City Water Line	(\$ 8,750.00)
6 S-1	Modification to City Water Line	\$ 0.00
6 S-2	Additional Funds	\$ 14,922.14
7	Temporary Drainage System	\$ 10,000.00
8	Revisions to Denny's, Cross Slope and Detour	\$ 71,027.00
8 S-1	Additional Funds	\$3,500.00
9	Relocate Existing Pole Gate	\$ 4,242.00
10	Various Electrical Changes	\$39,600.00
11	Wrought Iron Fence Substitution	\$ (5,000.00)
12	Water Meter Installation	\$ 24,514.00
13	Dispute Resolution Advisor	\$ 15,000.00
14	Cable Railing for Headwalls & Wing-walls	\$ 3,750.00
15	Electrical Services	\$ 50,000.00
16	VECP for Retaining Wall Elimination	\$(65,686.51)
17	Transition Barrier Railing @ BNSF R/W	\$ 5,263.25
18	Curb & Gutter near Edison Pole	\$ 30,000.00
19	Chain Link Fence Details on Bridge	\$ 1,050.50
20	Bridge Deck Profilograph	\$1,540.00
21	Accelerated Weekend Work	\$88,279.00
22	Increase in Temporary Striping and Potholing	\$ 16,715.50
24	Temporary Electrical	\$3,380.00
CCO TOTAL		\$ 391,062.88
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$ 1,254,317.50

I-10 Tippecanoe Avenue Phase 1 – Executed Change Orders		
Number	Description	Amount
1	Maintain Auxiliary Lane	\$27,010.00
2	Removal of Trees Along Tippecanoe Avenue	\$16,753.74
3	Traffic Control	\$10,000.00
3 S-1	Additional Funds	\$ 13,385.35
3 S-2	Additional Funds	\$3,934.77
4	Partnering	\$15,000.00
5	Dispute Review Board	\$15,000.00
6	Graffiti Removal	\$4,000.00
7	Removal of Man-Made Buried Object	\$10,000.00
8	Expediting Construction of Pier 2 Wall and Channel Invert Per ACOE Direction	\$3,000.00

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8 S-1	Additional Funds	\$4,635.53
9	Expediting Modification of RCB Connection to San Timoteo Creek Wall Per ACOE Direction	\$19,435.00
9 S-1	Additional Funds	\$7,430.43
9 S-2	Additional Funds	\$8,584.51
10	Shared Maintenance of SWPPP Components	\$15,000.00
11	Roadway Repairs Caused by Public Traffic	\$5,000.00
12	Maintain Existing Planting and Irrigation Systems	\$10,000.00
12 S-1	Supplement #1 to CCO #12	\$16,000.00
12 S-2	Additional Funds	\$20,000.00
13	Modify Drainage Detail #11	\$4,607.18
14	Restriping Tippecanoe Ave. And Anderson St.	\$16,809.40
14 S-1	Traffic Control Plan for Restriping	\$1,310.00
15	Disposition of ADL Soil	\$137,620.00
15 S-1	Traffic Control Plan	\$10,000.00
15 S-2	Disposition of ADL Soil – Extra Work at Force Account	\$209,580.00
15 S-3	Additional Time Related Overhead for Change Order #15 and Change Order #16	\$73,170.00
15 S-4	Additional Funds for SWPPP Maintenance	\$10,000.00
15 S-5	Time Extension and TRO Costs	\$44,607.30
15 S-6	Final Determination of ADL Costs	\$85,000.00
16	Increase/Decrease in Retaining Wall Material	\$72,240.00
16 S-1	Additional Quantities for Retaining Wall Material	\$51,786.28
17	Temporary Fiber Optic Change	\$20,554.27
18	Modify Drainage Detail 18A and 18D	(\$1,386.69)
18 S-1	Additional Funds	\$271.69
18 S-2	Additional Funds	\$723.56
19	Differing Site Conditions – San Timoteo Creek Bridge – Abutment #1	\$7,000.00
20	Maintain Existing Electrical Systems	\$15,000.00
20 S-1	Additional Funds	\$29,917.67
20 S-2	Additional Funds	\$6,580.62
21	Elimination of Item #51	(\$3,000.00)

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23	Removal of Additional Trees – Resolution of NOPC 1-11-02-13	\$32,666.76
24	Replacing JPCP and LCB with Rapid Set JPCP and Rapid Set LCB	\$20,005.77
25	Revision of Staging Plans	\$9,778.20
26	Weekend Closures on I-10 Tippecanoe EB Off-Ramp	\$0.00
27	Mitigation of Low R-Values Inside ADL Section	\$25,000.00
27 S-1	Supplement 1 – Mitigation of Low R-Values Inside ADL Section	\$15,000.00
27 S-2	Additional Funds for Cap Soil	\$10,332.55
27 S-3	2 Day Increase in Contract Time	\$0.00
28	Mitigation of Low R-Values Outside ADL Section	\$80,000.00
28 S-1	Additional Funds	\$6,826.46
29	Rebar Couplers for San Timoteo Creek Bridge Closure Pour	\$32,000.00
30	Pedestrian Push Button Assembly	\$5,000.00
31	Replacement of Liquid Asphalt (Prime Coat) with Slow Setting Asphaltic Emulsion	\$0.00
32	Change from LCB and JPCP to LCB RS and JPCP RS at Ramp Termini	\$35,308.60
33	Replacement of Concrete Curb on Street and Off-Ramp	\$3,684.00
33 S-1	Additional Funds	\$1,651.85
34	Modification of DRB Agreement – Position Paper Due Dates	\$0.00
35	Placement of Class II Aggregate Base on Tippecanoe Off-Ramp	\$38,500.00
35 S-1	Additional Funds	\$16,000.00
35 S-2	Additional Funds	\$10,331.48
35 S-3	Additional Funds	\$3,459.50
37	Additional Material, equipment, labor, TC, etc. Weekend Work	\$12,399.45
37 S-1	Additional Funds	\$735.48
38	Additional Cold Plane AC	\$780.00
39	Contingency Temporary Striping	\$20,638.00
40	Drainage behind RW 220	\$5,000.00
40 S-1	Additional Funds	\$1,000.00
41	Electrical Work Stage 3	\$10,000.00
41 S-1	Specification Changes	\$0.00
41 S-2	Additional Funds	\$3,931.73

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42	Removal of Tree Stump	\$2,000.00
43	Addition of One Non-compensable Day	\$0.00
44	Barrier Rail Removal	\$3,635.21
45	Temporary Delineation Maintenance	\$3,500.00
46	Additional Depth of Rock Blanket	\$9,402.94
47	Final Resolution Regarding Project Delays, TRO, LD's	\$208,318.36
TOTAL		\$1,643,446.95
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$1,706,154.20

Hunts Lane Grade Separation – Executed Change Orders		
Number	Description	Amount
1	Under-sidewalk Drains and Drainage Call-Outs	(\$1,100.00)
2	Install Temporary AC Sidewalk South of the RR tracks	\$6,423.00
3	Maintain Existing Electrical	\$10,000.00
3 S-1	Maintain Existing Electrical	\$20,000.00
4	Manmade Buried Objects	\$80,000.00
4 S-1	Manmade Buried Objects	\$40,000.00
5	Extend Underground Utilities at Oliver Holmes	\$15,446.68
6	Maintain Traffic	\$20,000.00
6 S-1	Maintain Traffic	\$20,000.00
7	Partnering	\$5,000.00
8	DRB	\$10,000.00
9	Trainee	\$5,000.00
10	60" Casing Thickness Increase	\$16,438.80
11	Substitute Cast-in-place with Precast Reinforced Concrete Box (RCB)	\$0.00
12	Retaining Wall No. 7 Alignment	(\$2,535.00)
13	Temporary Business Signage	\$5,000.00
14	Pedestrian Sidewalk	\$10,000.00
15	MSE Wall Design Methodology	\$0.00
16	Additional AT&T Work	\$25,500.00
17	16" Waterline Tie-in	\$12,700.00
18	SCE Utility Work Deduction	(\$59,415.80)
19	Drainage Ditch at Club Center Drive	\$10,975.00
20	AT&T Shift for Jacking Pit	\$20,000.00
21	Combination of Stages	\$0.00
22	Temporary Sewer Tie-in	\$70,000.00
22 S-1	Temporary Sewer Tie-in	\$40,000.00
23	Temporary Water Tie-in	\$37,000.00
23 S-1	Temporary Water Tie-in	\$50,000.00

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24	Decatur Irrigation Rebuild	\$15,000.00
25	Striping Changes	\$0.00
26	Move Jacking Pit	\$10,000.00
26 S-1	Move Jacking Pit	\$30,000.00
27	Hunts Ln Drainage Change	\$18,462.00
28	Emergency Access Structure Waterproofing	\$7,000.00
29	CIDH Lap Splicing	\$5,216.10
30	Temporary Traffic Delineation Removal	\$2,365.00
31	Reimburse Pilot Bore	\$27,680.21
34	Additional Sewer Manhole	\$8,900.00
43	Plant Establishment Type Change	\$0.00
45	Additional WD's for Jack & Bore	\$0.00
47	Additional Type CF Service Cabinet	\$3,520.00
48	Landscaping Reduction	\$6,526.20
49	Closure Panels at MSE Wall and Bridge	\$0.00
50	Shorter Street Light under Edison Lines	\$3,299.25
51	Profile Bridge Deck	\$2,500.00
52	Deletion of Cross Gutter	\$0.00
53	Drain Inlet For Adjacent Properties	\$6,500.00
54	Additional Potholing of Edison Facilities	\$15,000.00
54 S-1	Decrease of Funds	(\$7,862.82)
55	Additional Chain Link Fence and Gates	\$7,150.00
55 S-1	Additional Funds	\$19,580.00
56	Removal of At-grade Crossing Equipment	\$20,000.00
57	Bollards	\$10,000.00
58	Redwood Fence Topper on Masonry Wall	\$7,565.80
59	Pavement Markings and Crosswalk Deletion	\$3,418.80
61	Thief-proof Access Panels on Light Standards	\$411.72
62	Additional Traffic Safety Items	\$10,000.00
TOTAL		\$788,664.94
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$1,833,947.00

I-10 Riverside Avenue Landscaping – Executed Change Orders		
Number	Description	Amount
1	Additional Roadway Work and Roadside Signs	\$26,569.83
1 S-1	Drainage for Nuisance Water on W/B Shoulder	\$30,873.47
1 S-2	Returning Unused Funds to Contingency	(\$18,598.88)
2	Suspension of Work	\$0.00
3	Existing Irrigation System Deficiencies Corrections	\$5,000.00
3 S-1	Additional Funds	\$2,149.31
3 S-2	Returning Unused Funds to Contingency	(\$128.86)
3 S-3	Additional Funds for Rock Blanket Repairs	\$398.33

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4	Saw cut Existing AC Pavement Edge	\$4,541.93
4 S-1	Returning Unused Funds to Contingency	(\$2,270.96)
5	Agency Compensation for Costs and Expenses Incurred by AWL Default	(\$102,000.00)
6	Remove SWPPP Reporting and Inspection Requirements	(\$653.20)
7	Remove/Replace Existing MBGR, Saw cut Existing AC Pavement, and Install Vegetation Control	\$34,873.11
8	Re-Stripe Riverside Avenue	\$29,500.33
9	Delete Contract Item No. 52, 75mm Pressure Relief Valve	(\$950.00)
10	Install Rigid PVC Risers	\$4,250.00
11	Dispose of Rock from Irrigation Trenching Operations	\$10,000.00
11 S-1	Returning Unused Funds to Contingency	(\$7,718.45)
12	Reconstruction of AC Dike/Shoulder eastbound	\$59,012.59
12 S-1	Additional Funds	\$6,105.00
13	17 WD Time Extension to Cover Project	\$5,000.00
13 S-1	Returning Unused Funds to Contingency	(\$5,000.00)
14	Added Quantities of Bid Items	\$837.40
CCO TOTAL		\$81,790.95
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$204,850.00

I-10 Riverside Avenue Landscaping EEP - Executed Change Orders		
Number	Description	Amount
1	Project Deficiencies Repairs	\$2,500.00
TOTAL		\$2,500.00
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$295,226.10

Laurel Street Grade Separation – Executed Change Orders		
Number	Description	Amount
1	Maintain Roadway and Maintain Traffic	\$ 20,000.00
2	Removal and Disposal of Buried Man Made Object	\$ 10,000.00
3	Revised City of Colton Electrical E-02	\$ 9,476.14
5	RJ&R and TCI Properties	\$ 47,966.00
6	Increase TWC size of vault	\$ 4,515.00
7	Compensate Contractor for Payment to AT&T Utility	\$ 109,740.02

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Attachment: CCO Logs (1609 : Construction Contract Change Orders MVSS1502)

8	36" Casing-Waterline	\$ 86,535.00
9	DRB	\$ 22,500.00
10	Different in cost 750mm wire in lieu of 500 mm	\$ 4,000.00
11	Increase depth of Colton Vault	\$ 25,000.00
12	Remove Existing SCRRA Materials	\$ 10,000.00
17	BNSF Shoofly Drainage	\$ 28,228.00
19	Additional Fire Protection Measures	\$ 11,794.62
19 S-1	Additional Funds	\$ 105,100.00
24	Irrigation Back-flow Substitution	\$ 0.00
33	3' Wide Pavement Transition	\$ 10,800.00
35	Revised Hot Mixed Asphalt Specifications	\$ 0.00
36	Crude Oil Price Index Fluctuation	\$ 40,000.00
CCO TOTAL		\$ 545,654.78
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$ 2,754,187.72

SR-210 Segment 8 Landscaping EEP - Executed Change Orders		
Number	Description	Amount
1	Slope Erosion Control Measures	\$15,000.00
TOTAL		\$15,000.00
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$ 199,918.60

SR-210 Segment 10 Landscaping – Executed Change Orders		
Number	Description	Amount
1	Revise Irrigation Controller Equipment	\$6,248.25
2	Increase cost for Water Meter	\$14,832.70
3	Shared Water Pollution Control Costs	\$6,000.00
4	Install ICC Enclosure	\$2,500.00
5	Repair Existing Irrigation Facilities	\$3,000.00
6	Repair Slope Damage	\$35,000.00
6 S-1	Repair Slope Damage – Time Adjustment	\$0.00
7	Increase Water Rates	\$2,500.00
7 S-1	Increase Water Rates	\$1,948.78
8	Time Adjustment – Water Meter Repair by WWWD	\$0.00
9	Frost Damage	\$7,500.00
10	Wild Flower Seeding	\$13,107.58
11	Foliage Protector Removal	\$10,000.00

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11 S-1	Foliage Protector Removal – additional funds	\$25,000.00
11 S-2	Foliage Protector Removal – additional funds	\$20,000.00
11 S-3	Foliage Protector Removal – additional funds	\$8,834.70
12	Final Item adjustment	\$0.00
13	Detention Basin Clearing	\$3,658.41
TOTAL		\$160,130.42
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$239,090.00

SR-210 Segment 11 Landscaping – Executed Change Orders		
Number	Description	Amount
2	Install Roadside Signs	\$1,955.96
3	Water Meter Fee Adjustment	\$41,729.38
3 S-1	Additional Funds	\$6,515.39
4	Locate Existing Crossovers	\$30,000.00
5	Install Irrigation Crossovers	\$40,000.00
5 S-1	Install Irrigation Crossovers	\$5,965.81
6	Traffic Control	\$5,000.00
6 S-1	Additional Funds	\$1,181.90
7	Install Wireless Communication	\$7,237.60
7 S-1	Additional Funds	\$5,342.31
8	Repair Slipped Slope	\$64,844.08
8 S-1	Addition of 10 Working Days to Contract Time	\$0.00
9	Remove Man-made Objects	\$10,000.00
10	Wildflower Seed Change	\$0.00
11	Rock Blanket & V-ditch	\$80,000.00
13	Additional 1.5” Electrical Conduit	\$8,971.96
14	Shared cost for Fiber Optic Repairs	\$950.00
15	Slope Paving Repairs	\$12,000.00
TOTAL		\$321,694.39
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$445,031.83

SR-210 Segment 9 & 10 Landscaping EEP - Executed Change Orders		
Number	Description	Amount
1	Irrigation Controller Repair	\$616.43
2	Additional Irrigation Controller Replacement	\$1,019.17
3	Repair Leaking Backflow and Meter	\$1,500.00
TOTAL		\$3,135.60
TOTAL CONTINGENCY AND SUPPLEMENTAL		\$295,226.10

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I-215 Seg 1 & 2 Project – Executed Change Orders		
Number	Description	Amount
001	Traffic Control	\$100,000.00
001-S1	Traffic Control – Additional Funds	\$100,000.00
001-S2	Traffic Control – Additional Funds	\$150,000.00
001-S3	Traffic Control – Additional Funds	\$100,000.00
001-S4	Traffic Control – Additional Funds	\$125,000.00
001-S5	Traffic Control – Additional Funds	\$250,000.00
001-S6	Traffic Control – Additional Funds	\$205,000.00
001-S7	Traffic Control – Additional Funds	\$7,610.13
001-S8	Traffic Control – Additional Funds	\$15,313.38
002	Establish a DRB	\$35,000.00
002-S1	Establish a DRB – Additional Funds	\$913.78
002-S2	Establish a DRB – Additional Funds	\$187.50
003	Establish a Partnering Training Workshop	\$50,000.00
004	HMA Price Fluctuation Adjustment of Compensation	\$230,000.00
004-S1	HMA Price Fluctuation Adjustment of Compensation – Additional Funds	\$100,000.00
004-S2	HMA Price Fluctuation Adjustment of Compensation – Additional Funds	\$300,000.00
004-S3	HMA Price Fluctuation Adjustment of Compensation – Additional Funds	\$210,000.00
004-S4	HMA Price Fluctuation Adjustment of Compensation – Additional Funds	\$50,000.00
005	Maintain Existing Electrical	\$50,000.00
005-S1	Maintain Existing Electrical – Additional Funds	\$50,000.00
005-S2	Maintain Existing Electrical – Additional Funds	\$75,000.00
005-S3	Maintain Existing Electrical – Additional Funds	\$24,000.00
005-S4	Maintain Existing Electrical – Additional Funds	\$95,000.00
005-S5	Maintain Existing Electrical – Additional Funds	\$145,000.00
005-S6	Maintain Existing Electrical – Time Deferment, 4 days	\$0.00
006	Soundwall Block Detail Revision	\$0.00
007	Architectural Treatment Test Panel Size Revision	\$0.00
008	Just-In-Time Training for PCC Pavement and Paving Techniques	\$6,000.00
009	SWPPP Maintenance	\$100,000.00
009-S1	SWPPP Maintenance – Additional Funds	\$950,000.00
009-S2	SWPPP Maintenance – Additional Funds	\$395,000.00
009-S3	SWPPP Maintenance – Additional Funds	\$250,000.00
010	Utility Potholing	\$10,000.00
010-S1	Utility Potholing – Additional Funds	\$10,000.00

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010-S2	Utility Potholing – Additional Funds	\$10,000.00
010-S3	Utility Potholing – Additional Funds	\$10,000.00
010-S4	Utility Potholing – Additional Funds	\$20,000.00
011	Buried Man-Made Object	\$20,000.00
011-S1	Buried Man-Made Object – Additional Funds	\$30,000.00
011-S2	Buried Man-Made Object – Additional Funds	\$50,000.00
011-S3	Buried Man-Made Object – Additional Funds	\$50,000.00
011-S4	Buried Man-Made Object – Additional Funds	\$49,000.00
011-S5	Buried Man-Made Object – Additional Funds	\$50,000.00
011-S6	Buried Man-Made Object – Additional Funds	\$95,000.00
011-S7	Buried Man-Made Object – Time Deferment	\$0.00
011-S8	Buried Man-Made Object – Additional Funds	\$2,594.59
012	Provide Access Control Fence	\$50,000.00
014	Optional Steel Pipe Pile Specification	\$0.00
015	Modify 13 th Street Off Ramp	\$83,325.00
016	Change to Precast Girders at Redlands Loop	\$0.00
017	Temporary Fiber Optic	\$12,605.00
018	Repair Roadway	\$25,000.00
018-S1	Repair Roadway – Additional Funds	\$25,000.00
018-S2	Repair Roadway – Additional Funds	\$50,000.00
018-S3	Repair Roadway – Additional Funds	\$50,000.00
018-S4	Repair Roadway – Additional Funds	\$100,000.00
018-S5	Repair Roadway – Additional Funds	\$125,000.00
018-S6	Repair Roadway – Additional Funds	\$100,000.00
018-S7	Repair Roadway – Additional Funds	\$59,608.04
018-S8	Repair Roadway – Additional Funds	\$17,459.60
018-S9	Repair Roadway – Additional Funds	\$0.00
018-S10	Repair Roadway – Additional Funds	\$190.22
019	Change Sound Wall Pile Steel to No. 3 Rebar	\$0.00
020	Realign DS #6	\$2,398.00
021	Shear Ring Alternate Welding Method	\$0.00
022	Temporary Chain Link Fence at Verizon Yard	\$9,500.00
023	Revise DS #20	\$9,239.00
024	Change Traffic Opening at 9 th Street	\$0.00
025	Revise RW106W & DS #8, 13 & 100	\$15,390.02
026	1200mm Casing for 600mm Jacked Pipe DS #8 & 14	\$0.00
027	Change Traffic Opening at Baseline St OC	\$0.00
028	Rialto Top Deck Reinforcement	\$0.00
029	Tie-In DS #10-0 to Segment 3	\$80,000.00
029-S1	Tie-In DS #10-0 to Segment 3 – Time Deferment Closure	\$0.00
029-S2	Tie-In DS #10-0 to Segment 3 – Additional Funds	\$40,000.00
030	Modify Overhead Sign ‘H’ Values	\$13,258.64
030-S1	Sign B New Foundation	\$51,297.29
031	Change Bearing Pad Thickness at 5 th / 215 SB On	\$0.00

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Attachment: CCO Logs (1609 : Construction Contract Change Orders MVSS1502)

	Ramp	
032	ROW Delay DS #100 2 nd Street	\$10,000.00
033	Modify DS #101 and 102 W of 9 th Seg. 2	\$63,758.60
033-S1	Modify DS #101 and 102 W of 9 th Seg. 2 – Additional Funds	\$35,000.00
033-S2	Modify DS #101 and 102 W of 9 th Seg. 2 – Additional Funds	\$52,501.94
033-S3	Modify DS #101 and 102 W of 9 th Seg. 2 – Additional Funds	\$25,000.00
033-S4	Modify DS #101 and 102 W of 9 th Seg. 2 – Additional Funds	\$30,000.00
034	Modify DS #19 Seg. 2	\$60,000.00
034-S1	Modify DS #17 & #19 Seg. 2	\$51,453.50
034-S2	Modify DS #17 & #19 Seg. 2 – Additional Funds	\$95,000.00
034-S3	Modify DS-17 & DS-18, Seg. 2, Add'l Funds	\$16,007.92
034-S4	Modify DS-17 and DS-19 – Time Deferment	\$0.00
035	Change Incandescent 'Meter On' Signs	\$2,547.55
036	Strengthen Outside Shoulder	\$29,789.00
037	Protect Arco Station Sign and Greenbelt	\$10,000.00
039	Credit for Traffic Screen	(\$35,715.00)
040	Inlet guards	\$12,455.00
041	Relocate Fiber Optic Conduit at Redlands Loop	\$0.00
042	SB I-215 Detour North of 16 th Street	\$152,770.00
042-S1	SB I-215 Detour North of 16 th Street – Additional Funds	\$50,000.00
042-S2	SB I-215 Detour North of 16 th Street – Additional Funds	\$27,000.00
042-S3	SB I-215 Detour North of 16 th Street – Time Deferment	\$0.00
043	Revise Retaining Wall 242B, Add 242C	\$112,324.75
044	Third Street Train Mural	\$4,925.49
045	Right of Way Delay for DS #100 at 3 rd St Power Pole	\$4,182.99
047	Baseline Abutment 1 Right of Way Delays Due to BNSF Cables	\$55,000.00
047-S1	Baseline Mitigation of Critical Path Delay	\$60,000.00
048	Revise Structural Section 8 & 13	\$19,470.00
049	Frame Roadside Signs	\$3,066.90
049-S1	Additional Framed Signs	\$1,482.69
050	Change the Sta. for Abut. 1 & 7 16 th St	\$0.00
051	TCE at ARCO Station at Baseline & H St	\$0.00
052	Changes to Special Provisions for CIDH Payment Clause	\$0.00
053	Service Conduits for SCE Service Connections	\$23,218.32
054	Revise Vertical Drop Connection	\$0.00
055	Clean Out Storm Drain at 9 th Street	\$4,200.00

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056	Revise DS #4, 6 & 84	\$5,841.20
057	Graffiti Removal	\$20,000.00
057-S1	Graffiti Removal – Additional Funds	\$50,000.00
057-S2	Graffiti Removal – Additional Funds	\$25,000.00
057-S3	Graffiti Removal – Additional Funds	\$75,000.00
058	Salvage Vehicle Detection System	\$15,000.00
059	Reduce ADL Quantity Bid Item 70 & 71	\$0.00
060	3 rd Street Bridge Temp Retaining Wall Structure Backfill	\$25,000.00
061	Additional Drainage Inlet at 3 rd Street	\$8,500.00
062	New SWPP Permit Requirements	\$160,665.00
062-S1	New NPDES Permit – Order No. 2009-0009-DWG	\$574,911.32
062-S2	New NPDES Permit – Order No. 2009-0009-DWG	\$55,024.95
062-S3	New NPDES Permit – order No. 2009-0009-DWQ, Add'l Funds	\$113,909.31
062-S4	New NPDES Permit – order No. 2009-0009-DWQ, Add'l Funds	\$332,960.00
063	Additional Bracing for Falsework Bent 2-5 at Baseline St OC/OH	\$15,000.00
064	Right of Way Obligations	\$25,000.00
064-S1	Right of Way Obligations – Additional Funds	\$25,000.00
064-S2	Right of Way Obligations – Additional Funds	\$49,000.00
064-S3	Right of Way Obligations – Additional Funds	\$86,000.00
064-S4	Right of Way Obligations – Additional Funds	\$150,000.00
064-S5	Right of Way Obligations – Additional Funds	\$150,000.00
064-S6	Right of Way Obligations – Additional Funds	\$90,000.00
064-S7	Right of Way Obligations – Additional Funds	\$27,650.95
065	Remove Existing Storm Drain 62A	\$6,500.00
066	Repair Deck Opening and Joint on Redlands Loop and Rialto Bridges	\$90,105.80
067	5 th Street SB Off Ramp Acceleration	\$50,000.00
068	Modify Drainage Systems	\$100,000.00
068-S1	Modify Drainage Systems – Additional Funds	\$90,000.00
068-S2	Modify Drainage Systems – Additional Funds	\$85,000.00
068-S3	Modify Drainage Systems – Additional Funds	\$250,000.00
068-S4	Modify Drainage Systems – Additional Funds	\$120,000.00
068-S5	Modify Drainage Systems – Additional Funds	\$60,000.00
068-S6	Modify Drainage Systems – Additional Funds	\$75,000.00
068-S7	Modify Drainage Systems – Time Deferment	\$0.00
069	Stage Construction 4 th Through 6 th	\$95,000.00
069-S1	Stage Construction 4 th Through 6 th – Additional Funds	\$50,000.00
069-S2	Stage Construction 4 th Through 6 th – Additional Funds	\$40,625.22
069-S3	Stage Construction 4 th Through 6 th – Time Deferment	\$0.00

Bolded Construction Change Orders approved since the last reporting to the Metro Valley Study Sessions Committee

Amounts shown in parentheses represent a credit to the Agency

Attachment: CCO Logs (1609 : Construction Contract Change Orders MVSS1502)

070	Temporary Paving Under 259	\$145,927.00
071	Repair Fiber Optic Cable at 3 rd Street	\$22,000.00
072	Move Gore North for 215/259	\$40,000.00
073	Alignment and Temporary Paving Change Sta. 118 to Sta. 121 Median	\$0.00
074	Move SCE Connection at 5 th Street	\$30,394.56
075	Modify DS #115 at 16t Street and H Street	\$11,530.90
076	Delete Shiner on Retaining Walls, Seg. 1	\$0.00
077	Modify Drainage Systems G1 to G2 Types	\$38,334.30
078	Settlement of NOPC No. 1 – Pump House at 6 th Street	\$18,890.32
079	Revised Staging NB 2 nd Street Off Ramp – 2 nd Lane Addition	\$25,000.00
079-S1	Revised Staging NB 2 nd St Off Ramp	\$3,059.13
080	Delete Electrical & Cable Conduit Blockout & Casings at 9 th St Bridge	\$2,000.00
081	Increase Quantities for Bid Item #202 – Welded Steel Pipe Casing (Bridge)	\$39,480.00
083	Revised SCE Connection Points	\$5,358.47
083-S1	Revised SCE Connection Points – Addition of Trenton Street	\$10,646.65
084	Restage North End of Project & Temporary SB 3 rd Street Off Ramp	\$1,630,850.00
084-S1	Restage North End of Project & Temporary SB 3 rd Street Off Ramp – Additional Funds	\$75,000.00
084-S2	Additional Funds for the BAS Rental Property	\$1,343.54
085	Revise DS #38 Callouts	\$0.00
086	Chain Link Railing Fabric Color Change	\$64,003.59
087	Sidewalk Joint Armor at 9 th Street and Baseline Street OC/OH	\$25,000.00
088	Remove Contaminated Material at RW136	\$50,000.00
089	CIDH Pile Changes S259/S215 Connector	\$75,212.00
090	Electrical Changes 2 nd & I Street and 9 th & H Street	\$9,499.90
091	SB Transition Segment 5 into Segment 2	\$75,000.00
091-S1	SB Transition Segment 5 into Segment 2 – Additional Funds	\$60,000.00
092	Premium Time for Baseline and H Street Intersection	\$25,000.00
092-S1	Additional Funds	1,306.16
093	Relocate Signal at SE Corner of 2 nd St and SB On Ramp	\$18,350.00
094	Settlement of NOPC No. 3 – Temporary Power Poles (2 nd & 3 rd St)	\$34,345.28
095	Revised Deck Contours for 5 th St to S215 On Ramp	\$0.00
096	NB Transition Segment 2 into Segment 5	\$80,145.00
097	Modify Bioswale No. 3, Seg. 2	\$14,732.00

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Attachment: CCO Logs (1609 : Construction Contract Change Orders MVSS1502)

098	Eliminate BI# 184 Prepare and Paint Concrete Median Barrier Surfaces	(\$65,590.00)
099	DS #100 Verizon Utility Conflict	\$24,000.00
099-S1	DS #100 Verizon Utility Conflict – Additional Funds	\$86,394.57
100	Expansion Deflection Couplers at Baseline	\$2,415.35
101	Remove PCCP at South End of Project	\$85,000.00
102	Eliminate Bid Item No. 143 – Anti-Graffiti Coating	(\$262,800.00)
103	Traffic Signal Modification at 5 th St Ramps	\$9,375.31
104	Add CTPB Under Approach Slab Type R at Redlands Loop Widen and Rialto Ave Widen	\$88,330.56
104-S1	Revised Layout for Type ‘R’ Approach Slab at Redlands Loop	\$0.00
105	Changes to Moment Barrier Slab Wall 117W	\$77,228.78
106	Revised Pile Layout Abut 1 Baseline Stage 2	\$80,476.19
107	Sound Wall No. 1 Extension	\$144,330.00
107-S1	Settlement of NOPC No. 18 – Addition of Sound Wall No. 122	\$50,000.00
108	Underdrain at Wall 116W	\$40,540.00
109	Move SE-22 Crossing North for 5 th St SB Off Ramp	\$9,438.14
109-S1	Power for Service SE-19 for Luminaires 32, 34, 35	\$15,346.41
110	Column Casing Specification Changes	\$0.00
111	Contour Grading at 5 th St and BNSF Rail Road	\$30,000.00
111-S1	Contour Grading at 5 th St and BNSF Rail Road – Additional Funds	\$20,000.00
111-S2	Regrade and Concrete Line Earthen Ditches on the West Side of BNSF ROW	\$40,000.00
111-S3	Regrade and Concrete Line Earthen Ditches on the West Side of BNSF ROW – Time Deferment	\$0.00
112	Install Type ‘D’ Bike Loops	\$16,925.08
113	Transition Barrier Between 5 th St & S215/5ht St Off Ramp to Match Existing Bridge	\$10,000.00
113-S1	Retaining Wall 128 Transition Barrier Type 732A	\$10,000.00
114	SB Baseline On and Off Ramp Isolation Casing Revisions	\$18,848.42
115	Alternative Anchorage Bridge Mounted Signs	\$0.00
116	Intentionally Roughening the Bridge Stems	\$0.00
117	Modify the 732 Concrete Barriers at DS #8 & 11 Inlets	\$5,000.00
117-S1	Modify the 732 Concrete Barriers at DS #8 & 11 Inlets – Additional Funds	\$5,000.00
117-S2	Modify the 732 Concrete Barriers at DS #8 & 11 Inlets – Additional Funds	\$10,000.00
118	Soffit Lighting Layout Changes at 2 nd & 3 rd St Bridges	\$7,916.33
119	Change to Deck Drain Layout at 5 th St to S215 On	\$15,000.00

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	Ramp	
120	Modify and Upgrade Communications System	\$64,836.00
121	Pull Box Anti-Theft Installation	\$40,000.00
121-S1	Pull Box Anti-Theft Installation – Additional Funds for Caltrans Pull Boxes	\$95,000.00
121-S2	Utility Markers and Installation For Caltrans Pull Boxes – Additional Funds	\$10,000.00
121-S3	Utility Markers and Installation For Caltrans Pull Boxes – Additional Funds	\$50,000.00
121-S4	Utility Markers and Installation For Caltrans Pull Boxes – Additional Funds	\$100,000.00
121-S5	Utility Markers and Installation For Caltrans Pull Boxes – Additional Funds	\$22,324.69
121-S6	Utility Markers and Installation For Caltrans Pull Boxes – Additional Funds	\$1,152.98
122	Settlement of NOPC No. 8 – Storm Damage Repair	\$120,000.00
123	Relocate SE-09, Add PPB, Revise Highland Ramp Lighting Connection	\$27,863.48
124	Temporary Paving for NB 2 nd St Off Ramp	\$30,000.00
124-S1	Temporary Paving for NB 2 nd St Off Ramp – Additional Funds	\$15,000.00
125	Clearing & Grubbing Not Shown on Plans	\$40,000.00
126	Baseline Street Lighting	\$766.32
127	Replace Damaged Existing PCCP Slabs	\$80,000.00
127-S1	Replace Damaged Existing PCCP Slabs – Additional Funds	\$40,000.00
127-S2	Replace Damaged Existing PCCP Slabs – Time Deferred	\$0.00
128	Drainage at Retaining Wall 242A	\$69,122.75
128-S1	Drainage at Retaining Wall 242A	\$16,129.25
129	Polyester Concrete Overlay at Rialto Ave Bridge	\$194,000.45
129-S1	Polyester Concrete Overlay at Rialto Ave Bridge, Add'l Funds	\$63,250.00
129-S2	Polyester Concrete Overlay at Rialto Ave Bridge – Time Deferment	\$0.00
130	Slope Paving at 16 th Street	\$17,118.80
130-S1	Settlement of NOPC No. 29 – Barrier at Trenton	\$9,000.00
131	Settlement of NOPC No. 7 – Settlement Embankment	PENDING
132	Settlement of NOPC No. 9 – Importing of K-Rail Compensation Denied	\$24,000.00
133	Settlement of NOPC No. 14 – Rejection of Additional Costs Due to Redesign of RW242B	\$125,000.00
134	Stage 2B Phase 2 Northbound Transition	\$106,387.57
134-S1	Stage 2B Phase 2 Northbound Transition – Additional Funds	\$18,968.36
135	City Work at Baseline Street	\$25,000.00

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136	Adjustment of Temporary Construction Entrances	\$106,000.00
136-S1	Adjustment of Temporary Construction Entrances – Additional Funds	\$77,000.00
136-S2	Adjustment of Temporary Construction Entrances – Additional Funds	\$42,000.00
137	Ramp Metering System Loop Detection Changes	\$19,325.87
138	Pillow Wall Removal at Baseline	\$18,180.00
139	Drainage Changes at DS #72, Add DS #151 at SR259, Seg. 2	\$44,353.00
140	Concrete Rubble at RW137 – Settlement of NOPC No. 13	\$31,921.00
141	Temporary Bracing for 3 rd Street OC	\$10,000.00
142	Sound Wall No. 126C Barrier Texture	\$4,492.00
142-S1	Add Texture to Concrete Barrier Type 736S at SW126A	\$11,823.00
143	Temporary Concrete Barrier at 2 nd Street	\$68,000.00
144	Settlement of NOPC No. 16 – P30 End Anchors and Transition Slabs	\$65,247.50
145	Sound Wall No. 126C Alignment Change	\$20,000.00
146	Settlement of NOPC No. 10 – Baseline Street	\$137,000.00
147	Removal of Underground Storage Tank at RW109E	\$30,000.00
148	Northbound Transition Stage 3B on ‘P’ Line	\$89,013.99
148-S1	Northbound Transition Stage 3B on ‘P’ Line, Adjustment of Compensation	\$2,192.49
149	BI# 16 Construction Area Signs	(\$33,120.00)
150	Roadside Signs	\$74,290.00
150-S1	Roadside Signs – Time Deferred	\$0.00
151	Temporary Sign Panel Overlay NB BMS 9 th & Baseline	\$13,200.00
152	Removal of Asbestos Pipe – Baseline St to SB215 On Ramp	\$15,000.00
153	Revisions to Bridge Mounted Signs at 9 th & Baseline St	\$228,957.75
154	Revisions to ‘SFR’ and 3 rd Street	\$24,330.00
154-S1	Modify Signalization of ‘SFR’ and 3 rd Street	\$5,291.84
155	Replace ‘REACT’ Crash Cushion with Concrete Barrier at ‘5SE’	\$172,473.82
156	Install Chain Link Fence on Sound Wall at 9 th Street	\$9,250.00
157	16 th Street Bent Cap Reinforcement PT Conflict	\$21,066.00
157-S1	16 th Street Bent Cap Steel, Bents 2, 3, 4 & 5	\$30,000.00
158	Drainage Modifications at ‘5SE’ Line	\$99,000.00
158-S1	“5SE” Gore Modification	\$20,000.00
158-S2	“5SE” Gore Modification, Add’l Funds	\$30,000.00
158-S3	“5SE” Gore Modification – Time Deferment	\$0.00
158-S4	“5SE” Gore Modification, Add’l Funds	\$9,629.13

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159	Modify DS #8(qq) Inlet	\$5,461.40
160	Modify Barrier at Retaining Wall 108E	\$20,000.00
161	Irrigation Crossover at NB Highland Ave Off Ramp	\$24,000.00
161-S1	Irrigation Crossover at NB Highland Ave Off Ramp – Additional Funds	\$174.27
162	Eliminate Jacking for 2 nd St UC & 3 rd St UC for Stage 3B	(\$10,000.00)
163	City Water Meter Change and Adjustment of Compensation	(\$145,985.05)
163-S1	Cost Adjustment to 40mm Water Meters	\$7,890.00
163-S2	Delete Two Water Meters and BPA	(\$23,072.29)
164	Modify DS #71(a)	\$2,775.15
165	Modify DS #103	\$13,203.00
166	Settlement of NOPC NO. 17 – Overhead Power Lines	\$63,000.00
167	Settlement of NOPC No. 21 – Pinning of K-Rails	\$30,000.00
168	Inefficiencies Due to OH Power Lines at SB Baseline On Ramp	\$10,000.00
169	Delete Bid Item 183 – Clean and Paint Structural Steel	(\$12,000.00)
170	Export Soil with Rubble to 13 th St & H Street Site	\$45,000.00
170-S1	Export Soil from Old 13 th St Ramp Off Site	\$60,000.00
170-S-1	Additional Funds	\$115,965.86
171	Revise 3 rd St Abutment 2 Footing	\$10,118.00
171-S1	Revise 3 rd St Abut. 2 Footing, Time Deferment Closure	\$0.00
172	Settlement of NOPC No. 23 – Differing Site Conditions at Redlands Loop	\$15,531.00
173	Additional Soffit Lighting at 2 nd Street Bridge	\$11,519.59
173-S1	Additional Soffit Lighting at 2 nd Street Bridge – Time Deferment	\$0.00
174	Settlement of NOPC No. 22 – Temporary Lighting	\$20,000.00
175	Hubbard State ROW Adjustment	\$10,008.00
175-S1	Concrete Barrier Right of ‘P’ Line	\$75,000.00
175-S2	Time Deferment, 3 days	\$0.00
175-S3	Hubbard State ROW Adjustment – Time Deferment	\$0.00
175-S4	Concrete Barrier Right of ‘P’ Line, Additional Funds	\$2,219.07
176	Delete Type 60G Barrier in Seg. 1	(\$7,000.00)
176-S1	Delete Type 60G Barrier in Seg. 1 – Time Deferment	\$0.00
177	Paint Sound Wall Cover Plates After Galvanizing	\$2,672.13
177-S1	Paint Sound Wall Cover Plates After Galvanizing, Time Deferment	\$0.00
178	Railing at ‘P’ Line and ‘R’ Line	\$35,660.00

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178-S1	Railing at 'P' Line and 'R' Line, Add'l Funds	\$3,483.84
178-S2	Railing at 'P' Line and 'R' Line – Time Deferment	\$0.00
179	Strengthen Concrete Barrier Rail on '3NO' Line	\$18,698.00
179-S1	Strengthen Concrete Barrier Rail on '3NO' Line, Time Deferment	\$0.00
180	Drainage Improvements at 3 rd St and '3SE' Line	\$15,000.00
180-S1	Drainage Improvements at 3 rd St and '3SE' Line, Add'l Funds	\$10,000.00
180-S2	Drainage Improvements at 3 rd St and '3SE' Line – Time Deferment	\$0.00
181	New Sign Panels on Existing Sign Structures at 5 th St OC	\$15,000.00
181-S1	New Sign Panels on Existing Sign Structures at 5 th St OC – Time Deferment	\$0.00
182	Additional 60E Median Concrete Barrier	\$11,808.00
182-S1	Additional 60E median Concrete Barrier, Time Deferment	\$0.00
183	Location Change for Sign 'H' Seg. 1	\$0.00
184	Sound Wall 134 Alignment Change	(\$16,635.60)
185	Settlement of NOPC No. 12 Track Monitoring at RW137	\$91,041.00
186	Payment for Barrier Mounted Signs	\$149,903.59
186-S1	Payment for Barrier Mounted Signs – Time Deferment	\$0.00
187	Adjust Overhead Sign 'Q' at Baseline	\$45,000.00
187-S1	Adjust Overhead Sign 'Q' at Baseline – Time Deferment	\$0.00
188	Block Out Around MBGR Posts per New Standard	\$30,000.00
188-S1	Blockout Around MBGR Posts Per New Standard, Add'l Funds	\$70,000.00
188-S2	Block Out Around MBGR Posts per New Standard – Time Deferment	\$0.00
189	SR259 Median Removal and Tie-In	\$45,000.00
189-S1	SR259 Median Removal and Tie-in, Add'l Funds	\$14,333.28
189-S2	SR259 Median Removal and Tie-In – Time Deferment	\$0.00
190	Decrease Bid Item No. 110 – Grind Existing Concrete Pavement	(\$78,867.60)
191	Seal Joints in Existing Concrete Pavement	\$30,000.00
191-S1	Seal Joints in Existing Concrete Pavement – Time Deferment	\$0.00
192	Additional Drainage Swale Along BNSF Right of Way	\$113,234.71
192-S1	Additional Drainage Swale Along BNSF Right of Way – Time Deferment	\$0.00
193	Payment for Fence, Barrier Surface, Sound Wall Mounted Signs	\$34,339.00

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193-S1	Payment for Laminated Box Beam Sign 2-20-5 & 6	\$28,489.18
193-S2	Payment for Laminated Box Beam Sign 2-20-5 & 6 – Time Deferment	\$0.00
194	Modifications to Existing Electrical Systems due to Contract Work	PENDING
195	Add Drainage Inlet Type G-2 at Sta. 133+45	\$15,000.00
195-S1	Add Drainage Inlet Type G-2 at Sta. 133+45 – Time Deferment	\$0.00
196	Spandrel, Curb & Gutter N. Side of 9 th & J Street	\$15,000.00
196-S1	Spandrel, Curb & Gutter N. Side of 9 th & J Street – Time Deferment	\$0.00
196-S2	Spandrel, Curb & Gutter N. Side of 9 th & J Street, Additional Funds	\$6,158.27
197	ADA Requirements for Curb Ramps	\$30,000.00
197-S1	ADA Requirements for Curb Ramps – Time Deferment	\$0.00
198	Delete Slope Paving at 16 th St Bridge, Abut 7	(\$26,152.50)
199	SR-259 Cross Sections	\$75,000.00
199-S1	SR-259 Cross Sections – Time Deferment, 114 Days	\$0.00
199-S2	Additional Funds	\$56,141.50
200	Adjust Bid Item No. 49 – Adj. Water Valves to Grade	(\$3,850.11)
201	Adjust Final Pay Items Nos. 137 & 216	\$20,506.90
202	Adjust Bid item No. 53 – Remove Concrete Barrier (Type K)	\$267.75
202-S1	Additional Funds	\$401.46
203	Adjust Bid item No. 9 – Temporary Concrete Washout	\$12,812.50
204	Adjust Bid Item No. 50 – Adjust Sewer Manhole	\$3,205.03
205	Adjust Bid Item No. 246 – Concrete Barrier (Type 60E)	\$32,011.20
206	HMA QC/QA Incentive Adjustment	\$135,114.79
207	Increase Bid Item No. 8 – Temporary Gravel Bag Berm	\$34,065.60
208	Adjust Bid Item No. 46 – Remove Base & Surfacing	(\$85,031.34)
209	Increase Bid Item No. 2 – Temporary Fence	\$8,403.75
210	Increase Bid Item No. 27 – Remove Chain Link Fence	\$33,914.64
211	Decrease Bid Item Nos. 28, 191, and 252(F)	(\$9,097.00)
212	Mulch Remedy	\$10,000.00
212-S1	Mulch Remedy – Time Deferment, 4 Days	\$0.00
213	Increase Bid Item No. 254 and 255	\$119,505.75
214	Increase Bid Item No. 236; Decrease Bid Item No. 237	\$10,400.00
215	Adjust Bid Item No. 99 – Aggregate Base	\$4,701.38

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	(Approach Slab)	
216	Adjust Bid Item No. 109 – Seal Longitudinal Isolation Joint	(\$48.91)
217	Adjust Bid Item No. 19 – Type III Barricade	(\$466.40)
218	Adjust Bid Item No. 182 – Install Sign (Strap and Saddle Bracket Meth.)	(\$80,296.64)
219	Adjust Bid Item No. 52 – Remove Concrete (Sidewalk and Cross Gutter)	\$19,220.68
223	NOPC No. 19 Settlement	\$175,000.00
	TOTAL	\$17,392,301.40
	TOTAL CONTINGENCY AND SUPPLEMENTAL	\$18,871,980.00

I-15 Base Line Interchange – Executed Change Orders		
Number	Description	Amount
1	Maintain Traffic	\$50,000.00
2	Partnering	\$22,000.00
3	Dispute Resolution Board (DRB)	\$15,000.00
4	Maintain & Repair Existing/Temporary Elect.	\$10,000.00
	TOTAL	\$97,000.00
	TOTAL CONTINGENCY AND SUPPLEMENTAL	\$2,235,012.00

Bolded Construction Change Orders approved since the last reporting to the Metro Valley Study Sessions Committee
Amounts shown in parentheses represent a credit to the Agency

Minute Action

AGENDA ITEM: 3

Date: *February 12, 2015*

Subject:

Budget Overview for Proposed Budget Fiscal Year 2015/2016

Recommendation:

Recommend the Metro Valley Study Session receive general overview of the proposed budget for Fiscal Year 2015/2016.

Background:

The budget overview presentation provides general information for each major program by the Valley and Mountain Desert areas.

Staff will provide a general overview of the Fiscal Year 2015/2016 budget for the Valley and Mountain/Desert areas at the February Board Metro Valley Study Session and Mountain/Desert Committee respectively. The overview will entail the following programs:

1. General Government
2. Environment and Energy Conservation
3. Commuter and Motorist Assistance
4. Regional and Subregional Planning
5. Transit and Passenger Rail
6. Major Projects Delivery
7. Fund Administration and Programming
8. Debt Service

There are two program changes reflected in the 2015/2015 budget:

1. General Government replaces General-Council of Governments Support and provides information on the overall administrative and legislative support. A large portion of the program is allocated to other programs via the indirect cost allocation.
2. The Environment and Energy Conservation, and Commuter and Motorist Assistance programs are new programs that replace the Air Quality and Traveler Assistance program to provide a better understanding of each unique activity.

The overview presentation will answer the following questions:

1. What do we do?
2. What are we doing this year?
3. What are we planning for next year?

Entity: CMA, COG, CTA, CTC, SAFE

Board of Directors Metro Valley Study Session Agenda Item

February 12, 2015

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Estimated revenues and detailed budgetary information for the various tasks in the proposed 2015/2016 budget will be provided at the March General Policy Committee, Board Metro Valley Study Session, Commuter Rail and Transit Committee, and Mountain/Desert Committee meetings.

The general overview of the budget will be conducted each year prior to the completion of the budget document.

Financial Impact:

The budget overview has no financial impact on the Fiscal Year 2014/2015 budget, but is a component of the Fiscal Year 2015/2016 budget.

Reviewed By:

This item will be reviewed by the Mountain/Desert Committee on February 20, 2015.

Responsible Staff:

Bill Stawarski, Chief Financial Officer

Approved
Board of Directors Metro Valley Study Session
Date: February 12, 2015

Witnessed By:

Minute Action

AGENDA ITEM: 4

Date: *February 12, 2015*

Subject:

Interstate 10 Citrus Avenue Interchange Establish Existing Planting (EEP) Maintenance Project

Recommendation:

That the following be reviewed and recommended for final approval by the Board of Directors, acting in its capacity as the San Bernardino County Transportation Commission, at a regularly scheduled Board meeting.

- A. Approve the Plans, Specifications, and Estimate, and authorize advertising Invitation for Bids 15-1001190 for the Interstate 10 Citrus Avenue Interchange Four Year Establish Existing Planting Maintenance Project.
- B. Approve taking the recommendation for award of the maintenance contract directly to the Board without prior Metro Valley Study Session review.

Background:

On February 2, 2011, the Board approved two Construction Cooperative Agreements associated with the Interstate 10 (I-10) Citrus Avenue Interchange Project. Cooperative Agreement C11092 was approved with the City of Fontana and the County of San Bernardino and C11094 was approved with State of California Department of Transportation (Caltrans). These cooperative agreements outline the roles and responsibilities for City of Fontana, County of San Bernardino, Caltrans and SANBAG. Per these agreements SANBAG is responsible to advertise, award, approve and administer the construction contracts.

Cooperative Agreement C11092 defines construction and landscape maintenance work requirements between Caltrans and SANBAG. Included within this agreement are requirements for highway landscaping which includes a one-year of plant establishment followed by four years of landscape maintenance, and SANBAG's responsibility for payment for three years of water supply for irrigation purposes during these two phases. The four (4) years of establish existing planting maintenance (EEP) begins after the completion of construction and the one-year plant establishment period. The Engineer's Estimate for this phase of the project is \$441,000.00.

The I-10/Citrus Interchange construction project was awarded by the Board on February 1, 2012, to Brutoco Engineering and Construction, Inc. for a total contract amount of \$32,671,405.05. Construction was completed as of June 2014. The one-year plant establishment period started June 30, 2014, and extends to June 30, 2015.

In preparation for the completion of the one-year plant establishment phase, staff is requesting Board approval of the I-10 Citrus Avenue Interchange Establish Existing Planting Project Plans, Specifications, and Estimate; authorization to advertise Invitation for Bids (IFB) 15-1001190;

Entity: CMA

Board of Directors Metro Valley Study Session Agenda Item

February 12, 2015

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and approval to take the recommendation for award of the contract directly to the Board without prior Metro Valley Study Session review.

Financial Impact:

This item is consistent with the Fiscal Year 2014/2015 Budget under task 0826 for the Interstate 10 Cherry Avenue/Citrus Avenue Interchanges.

Reviewed By:

This item is not scheduled for review by any other policy committee or technical advisory committee. This item, but not the IFB, has been reviewed by SANBAG General Counsel.

Responsible Staff:

Mike Barnum, Construction Manager

Approved
Board of Directors Metro Valley Study Session
Date: February 12, 2015

Witnessed By:

Minute Action

AGENDA ITEM: 5

Date: *February 12, 2015*

Subject:

Construction Management Services for Landscape Maintenance Projects on Interstate 10 at Tippecanoe Avenue, Cherry Avenue and Citrus Avenue Interchange Projects

Recommendation:

That the following be reviewed and recommended for final approval by the Board of Directors, acting as the San Bernardino County Transportation Authority, at a regularly scheduled Board meeting:

- A. Authorize the release of Request for Proposal (RFP) 14181 for Construction Management Services for Landscape Maintenance on Interstate 10 for Tippecanoe Avenue Phases 1 & 2, Cherry Avenue and Citrus Avenue Interchange projects.
- B. Authorize a waiver of Policy 11000 Section V. Standard Procedures, Paragraph F to extend the maximum term for the contract to be awarded, from five (5) years to eight (8) years to coordinate with extended landscape maintenance periods.

Background:

Cooperative agreements with the State of California Department of Transportation (Caltrans) require that SANBAG provide four (4) years of landscape maintenance beginning after the completion of construction and the one-year plant establishment period. In the near future, SANBAG will complete the construction of the Tippecanoe Phases 1 and 2, Cherry Avenue and Citrus Avenue Interchange (IC) projects. The services of a construction management firm will be required to manage the follow-up four (4) year landscape maintenance contracts.

After review and consideration of all interchange projects being completed within a similar period, staff recognizes that the procurement of a single construction management contract to manage these landscape maintenance projects could help optimize the management efforts, maximize staff efficiencies, and decrease overall costs for SANBAG over the next several years.

Staff recommends combining these interchange landscape construction management contracts and authorizing the release of Request for Proposal No. 14181 for Construction Management Services for Landscape Maintenance on the Interstate 10 (I-10) Tippecanoe Phase 1 and 2, I-10 Cherry and I-10 Citrus Interchanges.

Separate Notices to Proceed will be issued for each project. It is anticipated that a notice to proceed for the Citrus Avenue IC will be issued in June 2015, for the Cherry Avenue IC in January 2016, for the Tippecanoe Phase 1 in February 2017, and for the Tippecanoe Phase 2 in the summer of 2017. Total duration of the construction management contract including closeout is anticipated to extend from June 2015, to December 2021, for a total period of seven and one-half (7 ½) years.

Entity: CTA

I-10 Tippecanoe IC Phase 1 and 2 Background:

On April 11, 2013, the Board approved a no cost Landscape Maintenance Agreement C13092 with Caltrans for the I-10 Tippecanoe Avenue Interchange Project Phase 1. This agreement C13092 defines, in part, SANBAG's responsibilities to provide four (4) years of landscape maintenance beginning after the completion of construction and the plant establishment period. The City of Loma Linda is supplying the irrigation water for Phase 1 landscaping at no cost.

On September 3, 2014, the Board approved a no cost Landscape Maintenance Agreement C14127 with Caltrans for the Tippecanoe Avenue Interchange Project Phase 2. Similar to the agreement for Phase 1, this agreement creates SANBAG's responsibility to provide four (4) years of landscape maintenance beginning after the completion of construction and the one-year plant establishment period.

The Tippecanoe IC Phase 1 construction contract was awarded by the Board on May 2, 2012, and work started on July 25, 2012. Phase 1 plant establishment started in February 2014, and is scheduled to be completed in February 2015. The Tippecanoe IC Phase 2 construction contract was awarded by the Board on November 5, 2014. Construction started in January 2015, and is scheduled to end in early 2016 followed by one year of plant establishment. Due to the unique two-phase delivery of these interchange improvements and to minimize cost, the first two years of Tippecanoe IC Phase 1's required four year extended plant maintenance work was included in Tippecanoe IC Phase 2 construction contract. Our current construction management firm overseeing the Tippecanoe IC Phase 1 and 2 improvements will complete construction management services associated with Phase 1 landscape maintenance work concurrent with Phase 2 work.

Staff will work to initiate a landscape maintenance contract that will incorporate both the remaining two (2) years for Phase 1 and the four (4) years for Phase 2 and bring the contract to the Board for approval in the Fiscal Year 2015/2016 budget so the contract is in place prior to the end of the plant establishment period.

I-10 Cherry and Citrus Interchanges Background:

On February 3, 2011, the Board approved Construction Cooperative Agreements C11093 and C11094 for I-10 Cherry and I-10 Citrus Interchanges respectively. These cooperative agreements outline all the roles and responsibilities for Caltrans and SANBAG and detail all related construction and landscape maintenance requirements. Similar to the requirements outlined above for Tippecanoe Interchange, the I-10 Cherry and Citrus Interchange cooperative agreements require SANBAG to provide four (4) years of landscape maintenance beginning after the completion of construction and the one-year plant establishment period.

The I-10 Citrus Interchange construction project was completed as of May 2014, and the plant establishment period duration is from June 30, 2014, to June 30, 2015. Currently, the I-10 Cherry Interchange construction project is anticipated to be complete in February 2015, with the plant establishment period expected to be from January 2015, to January 1, 2016.

For both I-10 Cherry and I-10 Citrus Interchanges, staff will work to initiate landscape

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maintenance contracts that will come forward for Board review and approval in the upcoming months so they are in place prior to the end of the plant establishment periods.

Financial Impact:

This item is consistent with adopted Fiscal Year 2014/2015 budget for tasks 0842 Interstate 10 Tippecanoe Avenue Interchange and 0826 Interstate 10 Cherry Avenue and Citrus Avenue Interchanges. Landscape maintenance is a project cost and will be funded with SANBAG public share funds and the required development contribution per the SANBAG Nexus Study.

Reviewed By:

This item is not scheduled for review by any other policy committee or technical advisory committee. SANBAG General Counsel and the Procurement Manager have reviewed this item and a draft of the Scope of Work.

Responsible Staff:

Mike Barnum, Construction Manager

Approved
Board of Directors Metro Valley Study Session
Date: February 12, 2015

Witnessed By:

ATTACHMENT A - SCOPE OF WORK

CONSTRUCTION MANAGEMENT

Construction Management Services for the I-10 Tippecanoe Interchange Phase 1 and Phase 2 and the I-10 Cherry and Citrus Interchange Landscape Maintenance Projects in the Cities of Loma Linda, San Bernardino and Fontana

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A. DESCRIPTION OF SERVICES

The San Bernardino Associated Governments (“SANBAG”) is soliciting proposals from qualified firms (“firms” or “proposers”) to assist SANBAG with Construction Management Services for I-10 Tippecanoe Interchange Phase 1 and Phase 2 and the I-10 Cherry and Citrus Interchanges (IC) Landscape Maintenance Projects in the Cities of Loma Linda, San Bernardino and Fontana, (“**Project**”). With the exception being Tippecanoe Phase 1, which is two years, the project duration for each plant maintenance project will be four (4) years. The I-10 Tippecanoe Phase 1 and Phase 2 will be issued as one landscape plant maintenance project while the I-10 Cherry Avenue IC and the I-10 Citrus Avenue IC plant maintenance projects will each be issued as separate contracts.

The San Bernardino County Transportation Authority (SANBAG) will utilize the services of CONSULTANT to support highway extended landscaping maintenance contracts of the Interstate 10 (I-10) Tippecanoe Phase 1 and 2 and the I-10 Cherry and Citrus Interchange Landscape Maintenance projects as described by the project plans and specifications. The total capital cost for the three projects is estimated at \$1 million.

SANBAG will issue a Notice to Proceed for each project. It is anticipated that notice to proceed on the Citrus IC in June 2015, Cherry IC in January 2016, and Tippecanoe Phase 1 and Phase 2 in the February of 2017. The contract is expected to end in December 2021, a total of 7 ½ years.

CONSULTANT shall provide qualified landscape inspection, material testers, surveyor and other personnel to perform a wide variety of maintenance management, inspection and contract administration duties as outlined in this Scope of Services for the Project.

The SANBAG Project Manager (“Designee”) for this contract will be:

Mr. Mike Barnum, SANBAG Construction Manager

The CONSULTANT shall report to and receive direction from SANBAG through the SANBAG Project Manager, or his designees. The SANBAG Project Manager is responsible for oversight of all SANBAG construction activities and for directing the efforts of the total construction team. He/she will be the main contact and primary source of information between SANBAG, Caltrans, cities, outside agencies, supporting consultants and the public.

B. PERFORMANCE REQUIREMENTS

Landscape Maintenance Management: CONSULTANT shall furnish personnel to serve in the following roles: Project Manager, Resident Engineer, licensed Landscape Architect, Office Engineer and Field Inspection, Material Testers, and Surveyors. Personnel can serve multiple roles. Proven staffing efficiency is critical. The Project Manager shall coordinate CONSULTANT operations with SANBAG. The Project Manager shall be responsible for all matters related to CONSULTANT personnel and operations. The Project Manager may also serve as the Resident Engineer and the licensed landscape architect. The Resident Engineer shall be a civil engineer licensed in the State of California and will be responsible for contract administration activities. The Resident Engineer may also serve as the Licensed Landscape Architect. The Resident Engineer shall direct and coordinate maintenance activities under this contract. Other Assistant Resident Engineers may be assigned to each specific project responsibilities as needed. It is desirable that the Project Manager and/or Resident Engineer also be a licensed Landscape Architect.

Resumes of personnel must be submitted to SANBAG for review and approval prior to assignment to the Project. SANBAG and CONSULTANT will jointly determine the quality and quantity of services that are required by CONSULTANT personnel. Personnel selected for assignment by CONSULTANT shall be made available for personal interviews prior to acceptance by SANBAG. If, in the opinion of SANBAG, an individual lacks adequate experience, the individual may be rejected or may be accepted on a trial basis until such time the individual's ability to perform the required services has been demonstrated. If, at any time, the performance of CONSULTANT personnel is unsatisfactory to SANBAG, SANBAG may release him/her by written notice and may request another qualified person be assigned.

If CONSULTANT personnel are on leave of absence, the Project Manager shall provide approved, equally qualified replacement personnel until the assigned personnel returns to the Project.

The typical workday includes all hours necessary to monitor the work performed by the maintenance Contractor. The maintenance Contractor's operations may be restricted to specific hours during the week, which shall become the normal workday for CONSULTANT personnel. On days when work is not performed by the maintenance contractor, such as rainy or unsuitable weather days, CONSULTANT services will not be provided unless authorized by the SANBAG Project Manager. The Project Manager, with concurrence from SANBAG, shall have the authority to increase, decrease, or eliminate CONSULTANT personnel work hours dependent on the schedule and requirements of the maintenance Contractor. From time to time, overtime may be required. However, all overtime required by CONSULTANT personnel shall be approved and authorized by SANBAG prior to each occurrence.

CONSULTANT personnel shall be knowledgeable of and comply with all applicable local, state, and federal regulations. CONSULTANT personnel shall cooperate and consult with SANBAG, State, and City officials during the course of the Project. CONSULTANT personnel shall perform duties as may be required to assure that maintenance is being performed in accordance with the Project plans and specifications. CONSULTANT personnel shall keep accurate and timely records and document all work performed by the Contractor and CONSULTANT.

CONSULTANT shall monitor for Contractor's compliance with the labor standards provisions of the projects and the related wage determination decisions of the Secretary of Labor.

CONSULTANT personnel shall assist SANBAG and local agencies in obtaining compliance with the safety and accident prevention provisions of the projects. Local agencies will retain jurisdictional control for traffic control.

All services required herein shall be performed in accordance with California Department of Transportation guidelines, regulations, policies, procedures, manuals, and standards, except as noted in the special provisions.

C. DUTIES AND RESPONSIBILITIES

1. Pre Award Services

CONSULTANT shall assist SANBAG, as requested, with the following tasks:

a. Plan Review

CONSULTANT shall review contract documents prior to beginning of Landscape Maintenance. Tasks include review of plans, specifications, technical reports, the RE Pending file, and associated items in order to verify completeness and consistency throughout the Project. At minimum, CONSULTANT shall check for potential conflicts, plant adaptability and plant testing specifications and consistency between plans and specifications.

b. Budget

CONSULTANT shall review the Project estimate and provide recommendations to SANBAG, as appropriate, to help ensure efficient utilization of funds and control of project costs.

2. Bid Process

a. Bid Documents

CONSULTANT shall assist SANBAG, as requested, with the following tasks:

1. Review of bid documents
2. Preparation of bid tabulations
3. Preparation and conduction of Pre-bid Meeting

b. Pre-maintenance Meetings

CONSULTANT shall assist SANBAG in conducting one or more, pre-maintenance meetings with all involved parties on the Project. Parties may include, but are not limited to, the Contractor, Caltrans and cities.

c. Contract Award

CONSULTANT shall assist SANBAG, as requested, with the following tasks:

1. Review of bid for completeness and responsiveness
2. Perform bid analysis
3. Development of contractor payment schedules, and other procedural items.
4. Checking Contractor references, licenses, insurance, and sureties.
5. Coordination with prospective Contractor for award of maintenance contract(s).

All processes will be consistent with procedures outlined by the California Department of Transportation for Special Funded Programs and Local Assistance Procedure Manuals.

3. Project Administration

- a. CONSULTANT shall administer project Landscape Maintenance contracts using Caltrans Construction Manual as a guideline.
- b. CONSULTANT shall conduct project coordination meetings with Contractor, SANBAG, local agencies, and design engineer, as appropriate. CONSULTANT shall record minutes of these meetings and status/track all resulting action items.
- c. CONSULTANT shall prepare Contractor progress payments and maintain payment records and supporting documentation. All progress payments shall be reviewed by SANBAG for approval.
- d. CONSULTANT shall provide reports as needed to comply with specific funding requirements.
- e. CONSULTANT shall establish and maintain Project records in accordance with the Caltrans Construction Manual. Project record keeping shall include, but are not limited to, correspondence, memoranda, contract documents, change orders, claims, SANBAG and engineer directives, meeting minutes, shop drawings, supplementary drawings, and requests for payment. CONSULTANT shall maintain a record of the names, addresses, and telephone and fax numbers of the Contractors, subcontractors, and principal material suppliers.
- f. CONSULTANT shall establish and maintain a filing system following the SANBAG Filing Categories using the Caltrans Construction Manual as a guideline.
- g. CONSULTANT shall monitor Contractors' Landscape Maintenance schedule on an ongoing basis and alert SANBAG to conditions that may lead to delays in completion of the Project.
- h. CONSULTANT shall prepare and submit a monthly Activity Summary Report for the Project. The activity report shall include status of SWPPP issues, RFIs, contract change orders, and notice of potential claims; maintenance activities completed, ongoing, and upcoming; status of project budget and schedule, and other highlights and critical issues.
- i. CONSULTANT shall review and ensure compliance with environmental requirements.
- j. CONSULTANT shall participate in partnering sessions with the Contractor, SANBAG, Caltrans and Local Agencies, as required.
- k. CONSULTANT shall ensure that the Project meets all provisions of the Caltrans Quality Assurance Program Manual.
- l. CONSULTANT shall review Contractors' certified payroll records and ensure compliance with the requirements of the maintenance contract.

- m. CONSULTANT shall ensure that the Project meets all provisions of the Storm Water Pollution Prevention Plan (SWPPP).
- n. CONSULTANT shall assure that the Project meets all applicable regulations of the Air Quality Management District (AQMD).
- o. CONSULTANT shall maintain redlined drawings on an ongoing basis throughout the duration of the project. Redlined drawings shall show all changes made to the original contract plans, each change identified with the name of the approver, date of change approval, and CCO number, if applicable.

4. Project Coordination

- a. CONSULTANT shall provide a minimum of one qualified Resident Engineer and as many qualified inspectors needed to effectively manage the Project.
- b. CONSULTANT Resident Engineer shall act as a prime point of contact between Contractor, SANBAG and any affected utility companies. CONSULTANT may, when requested by SANBAG, act as point of contact between design engineers, Caltrans, cities, and the public. CONSULTANT shall ensure coordination with property owners adjacent to project right-of-way to ensure timely communication regarding maintenance activities and scheduling.
- c. CONSULTANT shall maintain regular contact with SANBAG's Project Manager through daily briefings, in-person and/or by telephone. CONSULTANT shall coordinate utility relocations with utility companies and their designees, as well as the assigned utility inspector.
- d. CONSULTANT shall proactively review Project plans and special provisions for possible errors and deficiencies prior to start of any specific element and report such findings to SANBAG. Should SANBAG determine that changes are necessary; CONSULTANT shall assist in implementation and processing of change orders in accordance with contract documents and executed Cooperative Agreement with Caltrans.
- e. CONSULTANT shall provide all required monitoring, coordination and tracking of contractor progress to ensure the Project proceeds on schedule and according to the order of work in the plans and special provisions.
- f. CONSULTANT shall coordinate review of shop drawings and Requests for Information (RFI) with the SANBAG Project Manager, or his designee. CONSULTANT shall log and track all submittals and requests.
- g. CONSULTANT shall coordinate the implementation of any changes with the SANBAG Project Manager, or his designee, and the design engineer. CONSULTANT shall coordinate all Project maintenance activities with other on-going projects within and adjacent to the Project limits.

- h. CONSULTANT shall review the project for permit compliance and coordinate with SANBAG and Caltrans Landscape Construction Oversight to ensure that necessary permits are obtained. CONSULTANT shall assist SANBAG in the coordination, timely processing and verification of approval for all permits. CONSULTANT shall maintain permits and permit documentation on site.

5. Landscape Maintenance Inspection

- a. CONSULTANT shall coordinate all required inspections necessary for the Project. CONSULTANT shall ensure that appropriate State and local agencies are notified and present as required throughout the Project. CONSULTANT shall notify SANBAG immediately regarding any directives, recommendations, notices, etc. received from agencies other than SANBAG.
- b. CONSULTANT shall perform on-site observations of the progress and quality of the Landscape Maintenance, as needed, to determine if the work being performed is in general conformance with the contract documents applicable laws, codes, and ordinances.
- c. CONSULTANT shall establish and maintain cooperative relations with those contacted during the course of work and be able to communicate effectively, both orally and in writing. Except as otherwise directed by the SANBAG Project Manager, all written, project related correspondence prepared by CONSULTANT shall be issued on CONSULTANT's letterhead and not on SANBAG's letterhead.
- d. CONSULTANT shall exercise reasonable care and diligence to discover and promptly report to SANBAG any and all defects or deficiencies in the materials or workmanship used in the Project.
- e. CONSULTANT personnel assigned to the Project shall be thoroughly familiar with Caltrans Standard Specifications, Caltrans Standard Plans, Caltrans Erosion Control and Highway Planting requirements, and safety standards. CONSULTANT personnel shall have the ability to read and interpret construction plans and specifications. CONSULTANT personnel shall also have knowledge of State of California Construction Safety Orders (CalOSHA) and traffic control practices as specified in the Work Area Traffic Control Handbook (WATCH). In addition, CONSULTANT personnel shall be familiar with the construction requirements of the California State Water Resources Control Board (SWRCB) and the Caltrans' Storm Water Pollution Prevention Program.
- f. Assignments to be performed by CONSULTANT personnel shall include, but are not limited to, the following:
 - 1. Subgrade inspection, quantity calculations, checking grade and alignment, construction traffic control, soil amendments and plant material identification & quality control, hardscape inspection, trenching & irrigation inspection and duties that may be required to determine that landscape maintenance of the Project is being performed in accordance with the contract documents.

2. Identifying actual and potential problems associated with the Project and recommending sound solutions. Inspection personnel should be capable of identifying common plant diseases and/or pests together with their respective eradication techniques, directing plant adaptability requirements, and recognizing proper planting and pruning techniques.
 3. Schedule sampling and testing of construction materials in accordance with Caltrans procedures.
 4. Maintaining awareness of safety and health requirements. Monitoring Contractors' compliance with applicable regulations and construction contract provisions for the protection of the public and Project personnel.
 5. Preparing complete and accurate daily reports, calculations, project records, payment quantity documents, reports, and correspondence related to Project activities.
 6. Preparing Landscape Construction sketches, drawings, and cross-sections, as necessary, including a registered Landscape Architect seal on drawings as may be required by approving agencies.
 7. Assisting in the preparation of as-built plans.
 8. Providing inspections for environmental compliance.
 9. Maintaining awareness of water discharge requirements. Monitoring Contractors' compliance with applicable regulations and construction contract provisions.
 10. Maintaining awareness of water conservation measures and monitoring Contractor's compliance with local ordinances and other regulations regarding water use.
 11. Monitoring Contractors' compliance with applicable regulations required by AQMD and SWRCB.
 12. Other duties as may be required or reasonably requested.
6. Cost and Schedule
- a. CONSULTANT shall monitor and track the following:
 1. Contract pay item quantities and payments
 2. Contract change orders
 3. Supplemental work items
 4. Agency furnished materials
 5. Contingency balance
 6. Project budget
 - b. CONSULTANT shall review and monitor Contractor's schedule and inform SANBAG of any significant changes or deviations in the schedule.

- c. CONSULTANT shall provide and maintain a Project staffing plan of field office personnel based on the Contractor submitted baseline schedule update. In cooperation with SANBAG, the staffing plan shall be periodically updated to reflect Project progress and needs.

7. Contract Change Orders and Claims

- a. CONSULTANT shall receive and evaluate requests for changes and/or substitutions by the Contractor. Contract Change Orders submitted to SANBAG shall be accompanied by CONSULTANT recommendations. Where applicable, CONSULTANT shall convey proposed changes to design engineer, or other project consultants. If the requested changes are accepted, CONSULTANT shall negotiate and prepare appropriate Contract Change Orders.
- b. CONSULTANT shall attempt to avoid all unnecessary Contract Change Orders. When a Contract Change Order is necessary, CONSULTANT shall consult with SANBAG prior to its preparation. Unless directed otherwise by SANBAG, the preferred method of payment for Contract Change Orders should be as follows
 1. Agreed Price
 2. Adjustment in compensation to a bid item
 3. Time and materials or Force Account

CONSULTANT shall perform force account analysis to validate cost submitted by the Contractor for contract change orders with agreed unit price, lump sum price, and adjustment in components. Analysis shall be based on realistic production and resource needs to complete the work.

- c. CONSULTANT shall attempt to identify all potential claims, track and monitor unresolved claims. The CONSULTANT shall implement appropriate claims avoidance processes where in the best interests of SANBAG as determined by SANBAG's Construction Manager.
- d. CONSULTANT shall assist SANBAG, as requested, in the identification, resolution, and final disposition of claims filed by the Contractor or third parties against SANBAG or the Project.

8. Safety

In addition to the requirements specified elsewhere in this contract, the following shall also apply:

- a. CONSULTANT shall implement and conduct a comprehensive safety program including regular tail-gate safety meetings for CONSULTANT personnel. CONSULTANT shall provide SANBAG with monthly status of safety reports.
- b. CONSULTANT shall comply with State of California Construction Safety Orders and provisions of the Caltrans Construction Manual.
- c. CONSULTANT shall provide appropriate safety training for all CONSULTANT field personnel.

- d. CONSULTANT shall provide all necessary safety equipment as required for CONSULTANT personnel.

9. Project Close Out

- a. CONSULTANT shall prepare a list of items to be completed and/or corrected by the Contractor for final completion of the Project.
- b. CONSULTANT shall oversee the consolidation of all as-built information collected during the course of work on the project for the final preparation and formal submittal to SANBAG, including Irrigation drawings and SWPPP provisions as applicable.
- c. CONSULTANT shall review and certify completeness of as-built drawings to the extent of CONSULTANT's knowledge.
- d. CONSULTANT shall prepare and deliver to SANBAG a complete set of "As-Built" plans (hard copy and electronic formats) in accordance with CALTRANS' then current CADD User's Manual, Plans Preparation Manual, and CALTRANS practice.
- e. CONSULTANT shall conduct a final walk-through with SANBAG, Caltrans Landscape Construction Oversight, Local Agencies, Contractors and Caltrans Maintenance.
- f. CONSULTANT shall prepare final maintenance reports including the Project Completion Report.
- g. CONSULTANT shall prepare and deliver to SANBAG all project files.
- h. CONSULTANT shall assist SANBAG and Contractor in obtaining final release of all project permits.

D. DELIVERABLES

- 1. Inspector daily reports, extra work diaries and Resident Engineer's (and Landscape Architect's) daily diaries.
- 2. Monthly Project Activity Summary Reports.
- 3. Monthly Contractor progress payments, back-up documentation, and Contractor payment records.
- 4. Contractor final payment documents, delivered to SANBAG no later than ten (10) working days after acceptance by SANBAG of the completed maintenance project.
- 5. Project Completion Report.

6. All project files, project reports, correspondence, memoranda, shop drawings, project logs, change order data, claims and claim reports, and Contractor payment records.
7. Certified payrolls and fringe benefit statements for all employees, CONSULTANT and Contractor, who are subject to the State and/or Federal prevailing wage rates.

E. EQUIPMENT AND MATERIALS TO BE PROVIDED BY CONSULTANT

1. CONSULTANT shall provide all necessary equipment including software, materials, supplies, miscellaneous tools, and safety equipment required for its personnel to perform the services accurately, efficiently, and safely. Only those items listed in Attachment B, CONSULTANT Cost Proposal, shall be reimbursed by SANBAG.
2. CONSULTANT personnel shall be provided with vehicles suitable for the location and nature of the work involved. Vehicles shall be equipped with locking tool boxes and detachable flashing yellow lights.
3. CONSULTANT personnel shall be provided with a mobile radio, cellular phone, or other means to help assure full-time communication. If a radio system is to be used, CONSULTANT shall provide a base station at the field office.
4. CONSULTANT personnel shall be provided with all applicable project plans, specifications, and appropriate standards (see item G below).
5. CONSULTANT shall provide Office Complex and all necessary supplies and equipment.

F. MATERIALS TO BE FURNISHED BY SANBAG

1. SANBAG will provide copies of all Project Landscape Maintenance documents including plans, special provisions, reports, designer prepared resident engineer files, and contracts.
2. SANBAG will provide copies of all previously secured permits and Project authorizations.
3. SANBAG will provide copies of all electronic design files for use in development of As-built plans.

G. STANDARDS

All inspection and contract administration shall be in accordance with the Project bid documents, special provisions, plans, and current Caltrans manuals including:

1. Construction Manual and its revisions
2. Quality Assurance Program Manual
3. Manual of Uniform Traffic Control Devices (MUTCD) and MUTCD California Supplement.
4. Caltrans Standard Specifications and Standard Plans

5. Caltrans Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual
6. CALTRANS' CADD User's Manual and Plans Preparation Manual

Work not covered by the manuals shall be performed in accordance with accepted professional standards.

The Resident Engineer and SANBAG will decide all questions which may arise as to the quality or acceptability of deliverables furnished and work performed for this contract. Any CONSULTANT employee who does not perform adequately will be replaced if directed by the SANBAG Project Manager.

H. LIMITATIONS TO AUTHORITY

CONSULTANT does not have the authority to:

1. Authorize deviations from the contract documents.
2. Approve substitute materials or equipment; except as authorized in writing by SANBAG.
3. Conduct or participate in tests or third party inspections; except as authorized in writing by SANBAG.
4. Assume any of the responsibilities of the Contractors, Contractors' Superintendent, or subcontractors.
5. Exercise control over or be responsible for maintenance means, methods, techniques, sequences, procedures, or safety precautions.
6. Communicate directly with subcontractors or material suppliers without the prior consent of the Contractor.
7. Verbally authorize or approve change orders or extra work for the Project.
8. Offer or receive incentives, inducements, or other forms of enumeration to or from the Contractor to perform services or work outside the terms of any executed contracts for this Project.

I. THIRD PARTY RELATIONSHIPS

This Contract is intended to provide unique services for a specific project. In the development of the Project, SANBAG has worked closely with various professional consultants, agencies, and others in the preparation of the maintenance documents and other Project related materials. SANBAG, however, is solely responsible for and will be the sole point of contact for all contractual matters related to the Project. CONSULTANT shall take direction **only** from SANBAG and shall regularly inform **only** SANBAG of Project progress, outstanding issues, and all Project related matters.

During the course of the Project, CONSULTANT may find occasion to meet with Caltrans, City or County representatives, the design engineer, Project consultants, or other third parties who have assisted with the Project. These entities may, from time to time, offer suggestions and/or recommendations regarding the Project or elements of the Project. While SANBAG enjoys a close relationship with and has considerable confidence in the capabilities of these other parties, CONSULTANT shall not act on any suggestions, solicited or unsolicited, without obtaining specific direction from SANBAG. Unless otherwise specifically directed by SANBAG, all oral and written communication with outside agencies or consultants related to the project shall be directed only to SANBAG. Distribution of Project related communication and information shall be at the sole discretion of SANBAG representatives.

J. PROJECT SITE SAFETY

In addition to the requirements specified elsewhere in this contract, the following also will apply.

1. CONSULTANT will conform to the safety provisions of the Caltrans Construction Manual.
2. CONSULTANT's field personnel will wear white hard hats with proper suspension, orange vests with reflective tape, sleeved shirt, long pants, and leather boots with ankle support and rubber soled shoes at all times while working in the field.
3. CONSULTANT will provide appropriate safety training for all CONSULTANT's personnel, including work on and near highways.
4. All safety equipment will be provided by CONSULTANT.

K. PERSONNEL QUALIFICATIONS

The quantity and qualifications of field personnel to be assigned will be determined by the scope of the Project and the degree of difficulty of required tasks to be performed. All personnel and personnel assignments shall be subject to approval by SANBAG. While some areas of responsibility may overlap, as a guideline, CONSULTANT personnel assigned to the project shall have the following minimum qualifications:

1. Project Manager

Minimum qualifications shall be as follows:

- a. Six (6) years project management experience on similar highway Landscape Construction projects is desired.
- b. Ability to use typical computer software for word processing and preparing spreadsheets.
- b. Licensed landscape architect in the State of California is desired.
- c. Reasonably accessible to SANBAG during normal working hours.

- d. Possess a thorough understanding of Caltrans Construction Contract Administration Procedures, Caltrans Construction Practices and Procedures (for both field and office) and Caltrans Erosion Control & Highway Planting Standards.

The Project Manager will assume the following functional responsibilities:

- a. Review, monitor, train, and provide general direction for CONSULTANT personnel.
- b. Assign personnel to projects on an as-needed basis
- c. Administer personal leave.
- d. Prepare monthly reports for delivery to SANBAG

2. Resident Engineer

Minimum qualifications shall be as follows:

- a. Eight (8) years resident engineer experience on similar highway landscaping construction projects is desired.
- b. Licensed Professional Civil Engineer in the State of California.
- c. Licensed Landscape Architect in the State of California is desired.
- d. Certified as a Qualified SWPPP Developer or Practitioner is desired.
- e. Ability to use appropriate calculations for hydraulic analysis, piping mechanics and strengths of materials as these relate to the design, construction and operation of irrigation systems.
- f. Ability to use typical computer software for word processing and preparing spreadsheets.
- g. Reasonably accessible to SANBAG during normal working hours.
- h. Possess a thorough understanding of Caltrans Construction Contract Administration Procedures, Caltrans Construction Practices and Procedures (for both field and office) and Caltrans Erosion Control & Highway Planting Standards.
- i. Ability to work independently, make effective decisions concerning construction work in progress and solve field problems.
- j. Possess a thorough understanding of all local regulatory requirements pertaining to the Storm Water Pollution Prevention Plan (SWPPP) and the National Pollution Discharge Elimination System (NPDES) as they relate to highway Landscape Construction projects.

- k. Possess a thorough understanding of local ordinances and other regulations regarding water use and water conservation measures as related to landscape irrigation.
- l. Possess general knowledge of common local plant diseases and pests together with respective methods and procedures used in control and eradication.

The Resident Engineer will assume the following functional responsibilities:

- a. Monitor and provide daily direction to CONSULTANT's Assistant Resident Engineers and inspection personnel.
- b. Assign field personnel to specific project tasks.
- c. Monitor and track Contractor progress.
- d. Prepare daily, weekly and monthly reports as required.
- e. Coordinate utility service installations and/or relocations with appropriate agencies and the utility inspector.
- f. Act as prime contact between SANBAG, SANBAG's Project Manager or his designee and various project Contractors.
- g. Prepare monthly reports for delivery to SANBAG.

3. Licensed Landscape Architect

- a. A minimum of four (4) years' experience on similar maintenance projects is desired.
- b. Licensed Professional Landscape Architect in the State of California
- c. Ability to work independently, make effective decisions concerning maintenance work in progress and solve field problems.
- d. Accessible to SANBAG at all times including weekends and holidays.
- e. Certified as a Qualified SWPPP Developer or Practitioner is desired.
- f. Ability to use appropriate calculations for hydraulic analysis, piping mechanics and strengths of materials as these relate to the design, construction and operation of irrigation systems.
- g. Ability to use typical computer software for word processing and preparing spreadsheets.
- h. Reasonably accessible to SANBAG during normal working hours.

- i. Possess a thorough understanding of Caltrans Construction Contract Administration Procedures, Caltrans Construction Practices and Procedures (for both field and office) and Caltrans Erosion Control & Highway Planting Standards.
- j. Ability to work independently, make effective decisions concerning maintenance work in progress and solve field problems.
- k. Possess a thorough understanding of all local regulatory requirements pertaining to the Storm Water Pollution Prevention Plan (SWPPP) and the National Pollution Discharge Elimination System (NPDES) as they relate to highway Landscape Construction projects.
- l. Possess a thorough understanding of local ordinances and other regulations regarding water use and water conservation measures as related to landscape irrigation.
- m. Possess general knowledge of common local plant diseases and pests together with respective methods and procedures used in control and eradication.

The Landscape Architect will assume the following functional responsibilities.

- 1) Monitor and provide direction to CONSULTANT inspection personnel concerning contractor compliance with special provisions and plant maintenance.
- 2) Monitor and track Contractor progress.
- 3) Prepare daily, weekly and monthly reports as required.

4. Field Inspector

Minimum qualifications shall be as follows:

- a. Eight years (8) construction inspection experience as related to Caltrans or other major highway Landscape Construction projects or a four-year degree in the field of civil engineering or landscape architecture and four years of similar construction experience is desired.
- b. Possess general knowledge of Caltrans Erosion Control & Highway Planting Standards and construction practices, physical characteristics and properties of landscaping construction materials, and approved methods and equipment used in making physical tests of Landscape Construction materials.
- c. Possess general knowledge of hydraulic analysis, piping mechanics and strengths of materials as these relate to the design, construction and operation of irrigation systems.
- d. Possess a general understanding of local regulatory requirements pertaining to the Storm Water Pollution Prevention Plan (SWPPP) as they relate to highway Landscape Construction projects.

- e. Possess a general understanding of local ordinances and other regulations regarding water use restrictions and water conservation measures as related to landscape irrigation.
- f. Possess general knowledge of common local plant diseases and pests together with respective methods and procedures used in control and eradication
- g. Ability to work independently, make effective decisions concerning maintenance work in progress and solve field problems.
- h. Ability to direct the efforts of subordinate inspectors.
- i. Possess a general understanding of Caltrans field and construction office procedures.
- j. Ability to use typical computer programs for word processing and preparing spreadsheets.

The Field Inspector will assume the following functional responsibilities:

- a. Assist in inspections to assure compliance with contract plans, specifications, and special provisions on all phases of construction, including commissioning of electrical irrigation controllers and other types of automatic water coverage and monitoring systems.
- b. Assist in the preparation of contract change orders, contract estimates, progress pay estimates, and other documents or reports required for the Project.
- c. Coordinate field testing of materials to monitor compliance with Project specifications and Caltrans Quality Assurance Program.
- d. Maintain accurate and timely project records. Perform quantity calculations for progress pay estimates.
- e. Perform analytical calculations such as basic earthwork, grading, profiles, and special staking procedures.
- f. Provide input for the redesign of facilities to fit existing field conditions.
- g. Monitor and track Contractor progress. Prepare daily, weekly, and monthly reports as required.

5. Office Engineer

Minimum Qualifications shall be as follows:

- a. Four years (4) construction inspection/office engineering on similar highway Landscape Construction projects is desired.
- b. Knowledge of Caltrans Office of Highway Landscaping Construction forms used to administer construction projects.

- c. Knowledge of Caltrans system of document organization.
- d. Knowledge of construction records and accounting procedures.
- e. Knowledge of documentation, procedures, and reporting for federally funded projects.
- f. Knowledge of laws and regulations governing the payment of prevailing wages.

The Office Engineer will assume the following functional responsibilities:

- a. Process monthly progress pay estimates, monthly status reports, extra work reports, and weekly statements of working days.
- b. Prepare and process contract change orders.
- c. Monitor maintenance budget and schedule.
- d. Prepare, maintain, and/or file project documents including labor and equipment records, correspondence, memoranda, meeting minutes, claims, personnel records, labor compliance reports, and daily, weekly, and monthly reports.
- e. Perform routine calculations and checking of quantities.
- f. Coordinate all office activities and functions with SANBAG representatives.

6. Materials Testing Project Manager

- a. A minimum four (4) years project management experience on a similar highway/bridge construction project is desired.
- b. Licensed Civil Engineer in the State of California.
- c. Ability to use typical computer programs including word processing and spreadsheets.
- d. The materials testing project manager will assume the following functional responsibilities:
 - 1) Review, monitor, train, and provide general direction for CONSULTANT's laboratory and field personnel.
 - 2) Assign personnel to projects on an as-needed basis in coordination with the Resident Engineer.
 - 3) Administer personal leave, subject to approval of the Resident Engineer.
 - 4) Prepare monthly reports for delivery to the Resident Engineer.
 - 5) Provide direction, administration, and responsibility for Materials Certification per Caltrans Construction Manual, Section 8-01.

Material testing personnel will be certified by a California Registered Civil Engineer as being experienced and competent in the test procedures required for the work involved (and possess a current certificate of proficiency (Form MR-0111) in accordance with Quality Assurance Program Manual (Section 3-5). Independent certification of Caltrans test procedures may be performed at the discretion of the AUTHORITY Construction Manager.

7. Materials Technicians

CONSULTANT personnel provided under this contract will have a variety of skills and experience appropriate for the level of tasks to be assigned. Field personnel shall be certified by Caltrans and should have a minimum of two (2) years' experience in conducting material sampling and testing of the type required for the projects involved and possess the following additional capabilities:

- a. Have the ability to establish specific locations for appropriate tests when construction contract administration personnel are not available.
- b. Be familiar with construction practices and be fully aware of construction activities at the Project site.
- c. Have knowledge of and comply with safety and health regulations and requirements applicable to the Project.
- d. Specific qualifications for technicians are as follows:

1) CONSTRUCTION TECHNICIAN I

- a) Performs a variety of semi-skilled activities. Examples of duties assigned to this classification are:
 - i. Conducting quality control tests such as soil densities, sieve analysis tests, operation scales and inspecting spread operations.
 - ii. Sampling and transporting produced construction materials from point of application or production to testing laboratory.
- b) Knowledge and Skills Required
 - i. Knowledge of tools, equipment and vehicles utilized in construction.
 - ii. Knowledge of standard equipment and materials used for the sampling and testing of construction material.
 - iii. Knowledge of basic mathematics used in the computation of a variety of construction items.
 - iv. Knowledge of record keeping, preparing of documents and reports.

2) CONSTRUCTION TECHNICIAN II

- a) Performs a variety of skilled activities. Examples of duties assigned to this classification are:
- i. Inspecting minor construction items, sampling and inspection of steel reinforcement, sampling and inspection of concrete placing operation.
 - ii. Collect and analyze soil samples of construction materials to determine compaction and moisture content.
 - iii. Inspection and sampling of all phases of asphalt concrete and PCC paving operation, including plant inspection.
 - iv. Confers with construction engineers and contractors regarding construction in progress and its conformance to specifications and construction plans.
 - v. Answers questions and resolves problems.
 - vi. Inspects construction in progress to ensure conformance with specification, agreements, and established requirements.
 - vii. Keeps daily diary of work progress.
 - viii. Prepares reports on all field inspections and submits project quantities on a daily basis.
 - ix. Keeps accurate documentation for force accounts and possible claims.
- b) Knowledge and Skills Required
- i. All knowledge and skills required of lower classification.
 - ii. Knowledge of currently accepted methods, procedures and techniques used in highway construction inspection, survey, materials testing, and quality control equipment.
 - iii. Skill in interpersonal relations as applied to contact with contractors, representatives of other governmental jurisdictions, and other AUTHORITY/Caltrans staff.

3) CONSTRUCTION TECHNICIAN III

- a) Exercises considerable independent judgment within general Caltrans standards and guidelines. Examples of duties assigned to this classification are:
- i. Inspect Project construction on an ongoing basis to assure compliance with contract and in accordance with State and local standards.
 - ii. Perform a variety of structural material tests and inspections.
 - iii. Reviews construction plans and verified that these are in accordance with designated specifications and other requirements.
 - iv. Participates in the preparation of completed work

- v. estimates, to calculate compensation due contractor.
- vi. Examines and verifies numeric data and material specifications on project cost source documents, utilizing geometry and trigonometry calculations.
- vii. Supervises all work activities involved in construction projects, laboratory, and quality control work.
- viii. Recommends approval of proposed Project changes.

b) Knowledge and Skills Required

- i. All knowledge and skills required of lower classifications.
- ii. Knowledge of the principles and practices of Civil Engineering as applied to the construction of state highways.
- iii. Skill in analyzing and evaluating a wide variety of highly technical engineering data, including construction plans, field survey and quality control documents.
- iv. Skill in interpreting and implementing Caltrans standards, policies, procedures and regulations.
- v. Skill in interpersonal relations, as applied to contacts with contractors, representatives of other governmental jurisdictions, and other AUTHORITY/Caltrans staff.

8. Construction Surveying Project Manager

- a. A minimum four (4) years' project management experience on similar construction projects is desired.
- b. Licensed Surveyor or pre-January 1, 1982 Registered Professional Engineer in the State of California.
- c. Accessible to the Resident Engineer and AUTHORITY at all times during normal working hours as specified in this Scope of Services.
- d. Under the direction of the Resident Engineer, the Project Manager will be responsible for:
 - 1) Review, monitor, train, and provide general direction for CONSULTANT survey personnel.
 - 2) Assign personnel to projects on an as-needed basis.
 - 3) Administer personal leave, subject to approval of the Resident Engineer.
 - 4) Prepare monthly reports for delivery to the Resident Engineer.

9. Field Party Chief(s)

- a. The person(s) holding the position of Party Chief shall meet at least one of the following licensing requirements:
 - 1) A licensed Land Surveyor in the State of California.

- 2) A pre-January 1, 1982, Registered Professional Civil Engineer in the State of California.
 - 3) An experienced surveyor who serves as chief under the direction or supervision of a person who is a licensed Land Surveyor or pre-January 1, 1982 Registered Professional Civil Engineer in the State of California. The direction or supervision shall place the supervisor in “responsible charge” of the work. “Responsible Charge” is defined in Chapter 15 of the Business and Professions Code (the Land Surveyor’s Act) and Title 16, Chapter 5, of the California Administrative Code (regulations adopted by the Board of Registration for Professional Engineers and Land Surveyors).
- b. The Party Chief(s) should have a minimum two (2) years’ survey experience on similar construction projects and possess the following additional capabilities:
- 1) Thorough knowledge of construction survey practices and the ability to read and interpret plans and specifications.
 - 2) Ability to make effective decisions concerning field problems and work in progress.
 - 3) Familiarity with typical coordinate geometry computer programs.
 - 4) Familiarity with safety requirements for surveying near traffic.
- c. The Party Chief(s) will assume the following responsibilities:
- 1) Perform construction staking services for Project construction.
 - 2) Administer day to day activities for the survey party.
 - 3) Perform analytical survey calculations for items such as grading, horizontal and vertical control, right of way, and minor in-field design.
 - 4) Maintain continuous communication with the Resident Engineer, field personnel, and construction administration staff.

10. Survey Crews

- a. Qualifications for survey crew members should include the following:
- 1) A minimum of one (1) year of survey experience on similar construction projects is desired.
 - 2) Fundamental knowledge of construction survey practices and the ability to read and interpret plans and specifications.
 - 3) Ability to assist Party Chiefs and office personnel in all required surveying work.
 - 4) One survey crew member must have the ability to assume temporary leadership of the survey party in the absence of the Party Chief.
- b. Under the direction of the Resident Engineer and the Party Chief, the survey crew members will assume the following responsibilities:
- 1) Perform basic calculations to support construction staking.
 - 2) Maintain continuous communication with Party Chiefs and office personnel.

Minute Action

AGENDA ITEM: 6

Date: February 12, 2015

Subject:

State Route 60 and Central Avenue Interchange Professional Services Contract Approval

Recommendation:

That the following be reviewed and recommended for final approval by the Board of Directors, acting in its capacity as the San Bernardino County Transportation Authority, at a regularly scheduled Board meeting:

A. Approve award of Contract No. C14045 with AECOM Technical Services, Inc. for SR-60 Central Avenue Interchange Project Professional Services for the preparation of the Project Study Report/Project Report, Environmental Document, Plans, Specifications and Estimate, and support services during the right-of-way and construction phases in an amount not-to-exceed \$2,012,549.64.

B. Approve a contingency amount for Contract No. C14045 of \$201,255.00 and authorize the Executive Director or designee to release contingency as necessary for the project.

Background:

The SR-60 Central Avenue Interchange is the third highest priority in the Measure I 2010-2040 Freeway Interchange Program. To begin the project delivery process the SANBAG Board, on June 4, 2014, authorized the advertisement of Request for Proposal (RFP) 14045 for Professional Services for the SR-60 Central Avenue Interchange Project in accordance with SANBAG Contracting Procurement Policy 11000, Section VII.B.1. The scope of work for the cost-plus fixed fee sum includes the preparation of the Project Study Report/Project Report (PSR/PR), Environmental Document (ED), Plans, Specifications and Estimate (PS&E), and support services during the right-of-way and construction phases.

On June 11, 2014, RFP 14045 was released. The RFP was published on SANBAG's website and approximately 250 firms were notified of the RFP. A pre-proposal conference was held on June 17, 2014, which was attended by 25 people representing 21 firms. On July 24, 2014, seven proposals were received. The firms and location are listed below in alphabetical order:

Firm & Location

AECOM	CH2MHILL
Ontario	Riverside
Kimley Horn	KOA Corporation
San Diego	Ontario
RBF	TY Lin International
Ontario	Riverside
Wilson & Company	
San Bernardino	

Entity: CTA

Board of Directors Metro Valley Study Session Agenda Item

February 12, 2015

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An evaluation committee consisting of representatives from the City of Chino, California Department of Transportation (Caltrans), and SANBAG evaluated the proposals based on the following evaluation criteria:

- Qualifications of the Firm
- Staffing and Project Organization
- Project Approach/Work Plan

Since the work being performed is considered Architectural & Engineering Services, cost and price is not considered evaluation criteria pursuant to the Brooks Act. The evaluation criteria are consistent with other similar procurements. For the proposal, the work plan and the proposed staffing had the same weight and importance. The RFP identified that overall scoring would weigh the interview and the technical proposal as 65% and 35%, respectively.

On August 6, 2014, the evaluation committee reviewed all proposals based on the evaluation criteria and determined that three firms had the needed qualifications. The three firms (listed below in alphabetical order) were invited to an interview.

- AECOM Technical Services
- RBF Consulting
- TY Lin International

Interviews were held on August 26, 2014. While the three short-listed firms were rated comparably in understanding the challenge, technical ability, response to safety and environmental concerns, and quality requirements, AECOM demonstrated a better working knowledge of the stake holders and local requirements. In addition AECOM's team was seamless and during their interview the team demonstrated that it had worked together on previous projects. For these reasons, AECOM earned the best overall score.

Staff recommends approval of Contract No. C14045 with AECOM Technical Services, Inc. for the SR-60 Central Avenue Interchange Project in an amount not-to-exceed \$2,012,549.64. In addition, it is recommended that a contingency amount of \$201,255.00 be established for Contract No. C14045 and authorize the Executive Director or designee to release contingency as necessary for the project. This contract and contingency is within the amount included in Cooperative Agreement R14050 between SANBAG and the City of Chino.

Financial Impact:

This item is consistent with the adopted SANBAG Fiscal Year 2014/2015 budget. Task No. 0893. The funding source is Measure I Valley Freeway Interchange Bond Fund and Local Funds.

Reviewed By:

This item is not scheduled for review by any other policy committee or technical advisory committee. This item and the draft contract have not been reviewed by SANBAG General Counsel.

Responsible Staff:

Garry Cohoe, Director of Project Delivery

Approved
Board of Directors Metro Valley Study Session
Date: February 12, 2015

Witnessed By:



CONTRACT SUMMARY SHEET

Contract No. C14045 Amendment No. 0

By and Between

San Bernardino County Transportation Authority and AECOM Technical Services, Inc.

Contract Description SR60 Central Ave Interchange Project A&E Services

Board of Director's Meeting Date: March 4, 2015

Overview of BOD Action: Approve new contract C14046 with AECOM.

Is this a Sole-Source procurement? Yes No

CONTRACT OVERVIEW

Original Contract Amount	\$	2,012,549.64	Original Contingency Amount	\$	201,255.00
Revised Contract Amount <i>Inclusive of prior amendments</i>	\$		Revised Contingency Amount <i>Inclusive of prior amendments</i>	\$	0.00
Current Amendment Amount	\$	2,012,549.64	Contingency Amendment	\$	0.00
TOTAL CONTRACT VALUE	\$	2,012,549.64	TOTAL CONTINGENCY VALUE	\$	201,255.00
TOTAL BUDGET AUTHORITY <i>(contract value + contingency)</i>				\$	2,213,804.64

Contract Start Date

04/06/2015

Current Contract Expiration Date

12/31/2019

Revised Contract Expiration Date

Has the contract term been amended? No Yes - please explain.

FINANCIAL INFORMATION

Budget authority for this contract currently exists in Task No.0893

A Budget Amendment is required.

How are we funding current FY? Measure I Valley Fund-Freeway Interchange Program; City of Chino

Federal Funds State Funds Local Funds TDA Funds Measure I Funds

Provide Brief Overview of the Overall Funding for the duration of the Contract: Measure I Valley Fund-Freeway Interchange Program and City of Chino Development Impact Fee

Payable Receivable

CONTRACT MANAGEMENT INFORMATION

Check all applicable boxes:

Retention? If yes, indicate % ____.

Disadvantaged Business Enterprise (DBE) Goal ____ %

Mary Brown

Project Manager (Print Name)

Signature

Date

Task Manager (Print Name)

Signature

Date

Dir. of Fund Admin. & Programming (Print Name)

Signature

Date

Contract Administrator (Print Name)

Signature

Date

Chief Financial Officer (Print Name)

Signature

Date

ATTACHMENT A - SCOPE OF WORK C14045

The Central Avenue Interchange is located on SR 60 at Post Mile R2.37, approximately 1.0 mile east of the Ramona Avenue Interchange and about 1.3 miles west of the Mountain Avenue Interchange. The Project is anticipated to achieve the goal of reducing congestion during peak hours by widening the existing eastbound and westbound on ramps and modifying the existing Central Avenue Bridge Overcrossing to accommodate two additional through lanes, bike paths, and sidewalks. The Project Concept is shown in Figure A.1.

Caltrans is the lead agency for the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA) compliance. Determination of NEPA and CEQA, as well as the list of deliverables to satisfy the ED requirements will be established in the early Project Development Team (PDT) Planning Session.

Preliminary Engineering Services are anticipated to include preliminary engineering, preparation the Geometric Approval Drawings (GAD), Project Initiation Documents, Draft Project Study Report/Project Report, and Final Project Study Report/Project Report.

The PID may lead to the determination that there is only one viable build alternative. The Environmental Document may be limited in scope and requirements. Prior to starting the environmental studies, the requirements will be defined by the PDT.

After the Preliminary ED is circulated, and the Final ED is approved, the PS&E phase will commence. PS&E services include Right-of-Way (ROW) engineering and construction management support.

For purposes of the RFP assume the following delivery schedule:

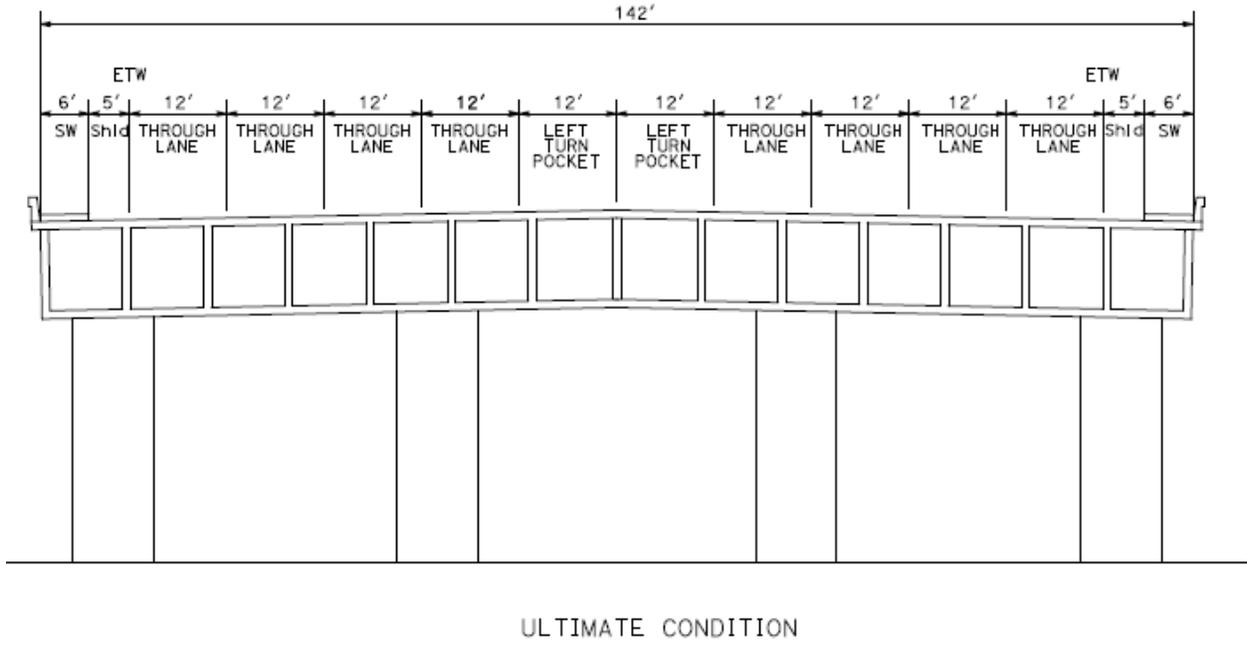
PID/PR&ED	January 2015 – December 2016
PS&E	January 2017 – December 2018
ROW	January 2017 – December 2018
Advertise	February 2019
Construction	June 2019 – December 2020
Project Opening	December 2020
Landscape Maintenance	June 2021 – June 2024

FIGURE A.1 - PROJECT CONCEPT



Attachment: C14045 Attachment A Scope of Work (1520 : SR60 Central Ave Interchange A&E Contract Approval)

FIGURE A.1 - PROJECT CONCEPT (cont)



Attachment: C14045 Attachment A Scope of Work (1520 : SR60 Central Ave Interchange A&E Contract Approval)

I. APPLICABLE STANDARDS

All documents shall be prepared in accordance with current SANBAG, Caltrans, San Bernardino County (County) and City of Chino (City) regulations, policies, procedures, manuals, and standards where applicable. Consultant shall obtain, at its expense, all applicable Manuals and Standard Plans.

II. GENERAL DESCRIPTION OF REQUIRED SERVICES

- A. Required services listed below do not supersede the requirements established in the Contract (Attachment B).
- B. Prime contract terms and conditions will be incorporated into the subcontract agreements.
- C. Consultant Services include the studies, reports, drawings, plans, specifications, estimates, and special provisions necessary to complete the PID/PR&ED.
- D. The optional PS&E phase includes ROW engineering, ROW support services, construction management support services and preparation of the construction as-built package.
- E. The deliverables list for the PID/PR&ED will be refined during the planning and scoping PDT meetings. Not all deliverables may be required.
- F. Develop and maintain a Project schedule. The Project schedule will be presented monthly to the Project Development Team (PDT) meeting. A deliverables matrix will accompany the schedule. The deliverables matrix will highlight the status of the documents in the review process.
- G. Prepare the necessary Caltrans Fact Sheets for Design Exceptions, in the event that non-standard features are necessary.
- H. Employ quality control procedures that identify potential risks and uncertainties related to construction of the Project. Risks that may be encountered include, but are not limited to, soil conditions, constructability, factors of safety, impacts to adjacent properties, public safety, and environmental considerations. If at any time during the performance of this Scope of Services, Consultant observes, encounters, or identifies any circumstance that could pose potential risk, Consultant shall notify SANBAG immediately.
- I. The design will be prepared in United States customary units (inch, foot, mile, pound, ton).
- J. A Modified Access Report (MAR) is not anticipated.
- K. A stand-alone Project Study Report or Preliminary Environmental Analysis Report (PEAR) may not be required. The requirement will be defined in the PDT planning session. For purposes of the RFP, assume that a PEAR is required.

- L. It is SANBAG's practice to involve the community in the projects. Assume a Public Hearing or Public Informational Meeting will be held.
- M. The Task and WBS Structure used for pricing, cost reporting and schedule preparation is the Caltrans Workplan Standards Guide for Delivery of Capital Projects will be used. Project Management will be performed in accordance to the Caltrans' Workplan Standards Guide for Delivery of Capital Projects.
- N. Project plans and specifications must comply with the Federal Americans with Disabilities Act (ADA) requirements 28 CFR, Part 35 or Part 36, and the *California and Local Building Codes* within the project limits. In accordance with 28 CFR Sec. 35.151, curbs and ramps must meet current ADA standards if the project includes streets that are to be newly constructed or altered (includes repaving). For ADA requirements, see Chapter 11 "Design Standards," and Section 12.7 of this chapter. Complete the Caltrans Certification of Compliance with Americans with Disabilities Act (ADA) Form TR-040.
- O. The final technical reports must bear the signature, stamp or seal, registration number, and registration certificate expiration date of the registered civil engineer most directly in responsible charge or other registered or certified professional working on the report as specified in Section 9 of the Project Development Procedures Manual.

III. ASSUMPTIONS

- A. The Consultant will develop and evaluate up to **two**-build and one no-build alternatives to address the operational deficiencies of the Project study area, including the benefits and impacts of the proposed improvements for each alternative. Alternatives will consider improvements ranging from on- and off-ramp widening to interchange reconfiguration/reconstruction. At the conclusion of this evaluation, one alternative will be carried forward for further development and analysis.
- B. Assume there will be **three** meetings per month during the duration of this contract, including one mandatory monthly PDT meeting.
- C. Assume 20 hard copies and 3 CDs of all major deliverables. Consultant will coordinate with SANBAG and Caltrans prior to distribution of all deliverables to determine the points of contact, number of hardcopies and format of softcopies.
- D. Assume 10 noise receptor locations for the existing, future no-build and build alternatives. Screening analyses will be conducted as specified in the CO protocol. If required, conduct a CALINE4 modeling for CO hot spots.
- E. Assume Level of Service C/D volumes for the main lines and the modeled 2040 traffic volumes for the ramps to determine traffic noise impacts.
- F. Assume one peer and two Caltrans reviews for each major deliverable.
- G. The National Environmental Policy Act (NEPA) Environmental Document is

- assumed to have a Categorical Exclusion (CE).
- H. The California Environmental Quality Act (CEQA) Environmental Document is assumed to be CEQA Initial Study and Mitigated Negative Declaration (MND).
 - I. It is assumed that the project will be processed under the United States Army Corps of Engineers (USACE) Nationwide Permit Program (NWP).
 - J. It is assumed that a California Endangered Species Act 2081(B) State Incidental Take Permit is not required.
 - K. Assume lead and asbestos testing of the soils, structures and paint is required.
 - L. Analyze and research the ROW impacts of the proposed Project build alternatives assessing any temporary and permanent easement and permanent fee impacts for up to 20 unique Assessor's Parcel Numbers. Up to 3 alignment studies will be analyzed. Assume up to 10 utility relocations (permanent or permanent) and no railroad coordination.
 - M. This Fact Sheet scope of work assumes documentation of 2 exception locations between the mandatory and advisory fact sheets. It is assumed that 2 supplemental fact sheets will be prepared as a part of the PS&E phase.
 - N. Construction Support will include response to 25 Requests for Information, review of 50 shop drawings, attendance at 20 one-hour coordination meetings.

Task 100 Project Management

The services provided include the initiation and planning of the project, and the execution, control and close out of the project. Tasks include:

- Initiation and planning of the project.
- Overall project management and supervision of project staff to facilitate the performance of the work.
- Coordination with city, county, state, and federal regulatory agencies.
- Coordinate with members of the Project Development Team (PDT).
- Tracking progress of the work.
- Administering subcontracts and directing their work.
- Preparation of a Subcontracts Management Plan.
- Attending public workshops.
- Preparing invoices using the WBS described in the Caltrans Workplan Standards Guide for the Delivery of Capital Projects. Include the progress report describing activities by the WBS.
- Conducting meetings over the Project Period of Performance.
- Preparation and distribution of agendas prior to the meetings, preparation of meeting minutes and distribution of minutes within five working days after the meetings.
- Organizing the Kick-off Meeting with Caltrans, SANBAG, and Project stakeholders to define the project and project limits, review roles and responsibilities, and determine which PID/PR&ED Document deliverables are necessary to meet the Project approval requirements.

- Development and maintenance of the Work Plan and Project Schedules throughout the Project. The Project Schedule will be maintained in a standard format with Work Breakdown Structure (WBS) Elements. The schedule will be prepared using the Critical Path Method. Corrective or remedial actions to recover schedule loss will be included.
- Development and use a Project Specific Quality Assurance and Quality Control Plan.
- Development and use a Project Management Plan.
- Development and use a Risk Management Plan.
- Development and use a project-specific, phase-specific Safety Plan.
- Development and use a Records Management Plan.

Deliverables:

- PDT meeting notices, agendas, handouts, and minutes
- Presentation materials consisting of agendas, previous meeting minutes, current schedule and deliverables matrix, current plans and action item log.
- Monthly Project Master Schedule delivered one week prior to the PDT meeting.
- Subcontracts Management Plan
- Monthly Progress Payment Invoices for services completed over the last period.
- Monthly Progress Reports based on physical percent complete
- Project specific Quality Management Plan
- Project Management Plan
- Project specific Risk Management Plan
- Project specific, phase specific Safety Plan
- Records Management Plan
- Final copy of all major deliverables during close-out

Task 150/160 Project Initiation Documents, Preliminary Engineering Studies and Draft Project Report

Work involves the preparation, review, and approval of a Project Initiation Document. Prior to starting these activities, the Contractor will host a scope definition meeting to determine which PID (PSR/PDS) and PR documents are required.

Problem Definition: Analyze available information to resolve the project's need and purpose. Determine the existing and future Level of Service (LOS) in the no-build scenario and analyze volumes. Develop Purpose and Need Statement.

Alternatives Development: This activity includes development of potential alternatives and reaching consensus with internal/external stakeholders that will be addressed in the PID. This activity may be limited to one build alternative.

Project Initiation Documents: The PSR-PDS document is used to gain approval for the project studies to move into the Project Approval and Environmental Document (PA&ED) phase. The PSR-PDS is used to estimate and program the capital outlay support cost necessary to complete the studies and work needed during PA&ED. The required information is reduced with much of the detail being completed during PA&ED. The document requirements are defined in Appendix S of the Caltrans Project Development Manual. Specific requirements will be defined in the PDT planning session.

Surveys and Maps: Efforts included the compilation and delivery of existing survey and boundary information.

Engineering Studies:

- Topography
- Structures Advanced Planning Study: This task includes all efforts required to develop, review, approve and distribute Structures Advance Planning Studies. An APS is required to identify the structure's scope of work and preliminary cost. The APS is included in the Project Initiation Document.
- Utility Locations: Review the existing plans, as-builts and a field review of the area. Identify utility needs, inspect facilities and prepare a utility estimate for inclusion in the ROW Data Sheets
- Monitoring Surveys
- Preliminary Investigation Report: This task includes preparation of photographs and descriptions of the proposed work-site conditions; processing the BSS, site and topographic data in preparation of foundation plan creation.
- Foundation Plan: This task includes the creation of the foundation plan and submitting to DES Structure Design to be incorporated into structure plans.
- Paved Surface Survey
- Geometric Plans, Horizontal and Vertical Alignments
- Geotechnical Report: The task includes efforts required to prepare a Geotechnical Report which typically consists of field reviews, researching existing files, literature reviews and information gathering, such as proposed plans/alternatives and location history. Determine if a limited subsurface exploration is required to provide sufficient information to produce a Geotechnical Report. The subsurface exploration can include, but not limited to test borings, soundings, and/or geophysics.
- Storm Water Data Report: In general, a Storm Water Data Report (SWDR) is required for every project. Depending upon the extent of soil disturbance and degree of storm water impacts a short form may be used. Caltrans concurrence is required.
- Value Analysis: The project has limited scope and options. A VA may not be required.
- Hydraulic/Hydrology Studies: The task includes review and inspection of existing facilities to determine the need to upgrade or replace the existing drainage system and culvert inspection study
- ADA Compliance

Transportation Problem Definition and Site Assessment:

- Compile and review existing background information that may impact the alternatives under consideration.
- Review existing reports studies and mapping including planning documents, field reviews, as-builts, base mapping, weigh in motion master plan, existing surveys and ROW maps, TASAS and Pavement Management System (PMS) adjacent projects under development.
- Develop project constraints and information required to determine the extent of the existing problem and future needs including discussions with internal and external stakeholders.

- Analyze the existing problem and future requirements to determine the project's need and purpose.

Traffic Studies

- Preliminary Traffic Design
- Traffic Operational and Safety Analysis
- Traffic System and Signal System Review
- Pavement Survey
- Traffic Capacity Analysis and Modeling: Use macroscopic and/or micro-simulation modeling, as appropriate, to perform traffic capacity analysis on existing and future year project specific State highways. Prepare future traffic projections, traffic indices and design designations.
- Transportation Management Plan:
 - Prepare itemized estimate of proposed TMP strategies and their respective costs for the Project Initiation Document.
 - Identify TMP elements that need to be in place prior to start of construction as staged construction.
 - Form and meet with TMP team, which may include the District TMP Manager.
 - Coordinate major closures with neighboring Caltrans districts, CHP and local agencies to determine impact on this project.
 - Update TMP/lane closure database.
- Multimodal Review: This review addresses temporary construction and permanent impacts as well as possible improvements to:
 - Pedestrian facilities (required)
 - Bicycle facilities (required)
 - Transit facilities (potential)
 - Park and Rides (potential)
- Intersection Control Evaluation: Caltrans Policy Directive, October 2013, requires that all capital projects evaluate the use of alternative intersection control designs, specifically, roundabouts, single point interchanges and diverging diamonds. The reviews include footprint reduction, improved LOS, elimination of left turn lanes, costs including maintenance and operations, and safety.

Preliminary Base Maps and Plan Sheets: Prepare exhibits, geometric base maps and functional base plan sheets.

Public / Local Agency Input: Due to the limited impact of the facility, a Public Meeting may not be required. It is SANBAG's policy to hold Public Meetings to solicit support and inform the public of activities. Activities may include:

- Development of Community Action Plan.
- Preparation of information for Scoping Meetings with public and local agencies.
- Reaching consensus on which alternatives to address in the PID.

Right of Way Data Sheets: The task includes assessment of ROW requirements, obtaining public records, preparation of ROW cost estimates and cost estimate maps, and generation of approved exceptions to Encroachment Policy.

Environmental Constraints Identification: Identify and delineate any environmental resources or issues that might affect initial alternative(s) selection. Prepare a base environmental constraints map, if required.

Fact Sheet for Exceptions to Design Standards: Complete the Design Information Bulletin 78 Checklist to document non-standard features. Prepare Fact Sheets to document non-standard features within the Project. The consideration of non-standard features will be closely coordinated with Caltrans to assure acceptability and compliance with state and federal requirements.

Materials Report: The MR includes the deflection study, corrosion study, and identification materials required for completion of the project.

Construction Estimates: The Construction Estimates are used to program the project. The estimates include:

- Adequate scoping for each alternative
- Worst case scenario
- Reconstruction of existing features
- Right of Way costs, including utility relocation
- Mitigation costs for hazardous materials and other environmental impacts
- Existing and forecasted traffic
- Geotechnical design, especially foundation and slope stability features
- Materials
- Pavement structural sections design
- Noise barriers
- Retaining walls
- Major storm drains
- Proposed Structures
- Traffic handling and traffic management
- Recycling

Draft Project Report and Programming Document: Assume the project has only Categorical Exemption/Exclusions. This activity includes all tasks required to develop the text, exhibits and cost estimate required for a Draft Project Report and development and approval of any design exceptions.

Draft Project Report Circulation Review and Approval: This activity includes development of the PR text and exhibits; circulation; review and update the PR; and development and approval of any required design exceptions and/or FHWA Access Modification Request.

Deliverables:

- PDT agreement on required documents
- Purpose and Need Statement
- PSR/PDS Document
- Survey and Mapping Products
- Engineering Studies
- Traffic Studies
- Access Modification Report
- Approved Exceptions to Encroachment Policy

- Preliminary Centerline and Right of Way line location map
- Right of Way Data Sheets and Cost Estimate Map
- Utility Location Maps and Relocation Assessment
- Community Action Plan
- Fact Sheets
- Materials Report
- Cost Estimates
- Technical Reports/Abstracts for use in Environmental Document
- Draft Project Report and Programming Document
- Draft Project Report Circulation Review and Approval

165 Environmental Studies and Environmental Document

The environmental studies determine the environmental impact of a Capital Outlay Project. The end product is approval to circulate the Draft Environmental Document.

Preliminary Environmental Analysis Report (PEAR) may be required to support the PSR/PDS. The PEAR includes:

- Discussion of potential impacts related to alternatives capable of functioning adequately meeting Caltrans policies.
- A discussion of environmental resources and a description of the potential project issues or impacts, which could delay the project or affect any project alternative.
- Description of studies that are needed to complete an environmental evaluation.
- A recommended environmental determination/documentation and a tentative schedule for its completion. If an environmental document is required, specify the lead agency for its preparation.
- An initial site assessment (ISA) for hazardous waste, if the project includes the purchase of new right-of-way, excavation, and/or structure demolition or modification.
- Identification of required or anticipated permits or approvals.

Environmental Scoping of Alternatives Identified: Alternatives are based on those developed and documented in the Programming Document, with additions or deletions as required. Identify and delineate any environmental resources or issues that might affect initial alternative selection. Preparation of a base environmental constraints map may be required. The first activity is to obtain PDT concurrence on which environmental studies are required.

Public and Agency Scoping Process: Prepare and publish legal notices, and perform all public and agency participation tasks related to the overall environmental product prior to circulation of the Draft Environmental Document to the public. Tasks include:

- Preparation of the Draft Notice of Intent for FHWA publication, Notice of Preparation, mailing list and State Clearinghouse.
- Preparation of a Public Participation Plan, MPO/Air Pollution Control District (APCD), Public Participation Plan, Minutes, records of meeting, newsletters, press materials, and Public Participation Reports.
- Preparation of notification of initiation of environmental studies, conduct and document Public and Agency environmental scoping meeting(s)

Environmental Studies: The Project has limited or minor impact. All Environmental Studies may not be required. Obtain PDT concurrence on the environmental studies required. Prepare all necessary studies and documents necessary to prepare the Draft Environmental Document.

Environmental Analysis Report: Identify the potential environmental impacts of each alternative, as well as potential mitigation costs. Costs developed in this activity will be used for programming purposes; consequently, the analysis should be of sufficient detail to identify all potential costs.

Noise Study: Analyze build and no-build alternatives. The study will comply with Caltrans Traffic Noise Analysis Protocol requirements. Tasks include:

- Conducting a site visit to identify frequent human use areas, existing property walls, existing noise sources, and possible locations for the noise barriers.
- Preparation of a work plan for Caltrans review and approval. The work plan will identify noise measurement sites, land use type in the study area, study methodology, and traffic volumes that will be used for the noise impact analysis.
- Conducting short-term noise measurements to determine the existing background noise levels in the study area and to calibrate the traffic noise model. Noise measurements will be conducted in accordance to the guidelines specified in the Caltrans' Technical Noise Supplement - A Technical Noise Supplement to the Traffic Noise Analysis Protocol (TeNS). Traffic volumes will be recorded during short-term noise measurements which will be used to calibrate the traffic noise model.
- Computing the traffic noise levels using the FHWA Traffic Noise Model (TNM) version 2.5 to compute traffic noise levels of the build and no-build alternatives. Identify areas where the traffic noise levels approach or exceed Noise Abatement Criteria.
- Identifying noise barriers that would provide feasible noise abatement for the impacted frequent human use areas.
- Conducting reasonableness analysis in accordance with Caltrans guidelines to determine the reasonableness cost allowance for the feasible noise barriers.
- Analyzing construction noise and vibration impacts in general terms because detailed construction activities and their sequences will not be available at the time of the study.
- Preparing the Noise Study Report to summarize noise measurement results, noise impact analysis results, feasible noise abatement measures, and reasonableness cost allowance for each feasible noise barrier.
- Preparing a noise section of the ED to present the results of the noise impact analysis and proposed mitigation measures to minimize noise impacts.

Scenic Resource and Landscape Architecture Review: Determine if scenic resources exist within the project limits, and whether these resources will be impacted by the project.

Landscape Architectural Review Tasks include development of:

- Design strategies that integrate the project with the surrounding environment.
- Erosion control, slope design, and Storm Water Data Report recommendations.
- Replacement Highway Planting and Mitigation Planting requirements.
- Integration with the Comprehensive Corridor Plan, if available.

- Traveler and Worker Safety report.
- Preservation of Historic Period Landscapes recommendations.

Historic Property Survey Report (HPSR) is the principal format used to present the findings of all cultural resources studies for federal undertakings as required by 36 CFR Part 800. All tasks and documents are scoped to be completed per the guidelines set forth in the Caltrans SER Caltrans Environmental Handbook, Volume 2, Cultural Resources (February 3, 2012) and the Programmatic Agreement among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and the Caltrans Regarding Compliance with Section 106 of the National Historic Preservation Act, as it Pertains to the Administration of the Federal-Aid Highway Program.

Conduct Native American consultation per Section 106 of the National Historic Preservation Act. This includes contacting the Native American Heritage Commission for a search of its Sacred Lands File and a list of parties with cultural ties to the APE. Prepare a summary of the Native American consultation to appear in the Historic Property Survey Report (HPSR) and the Archaeological Survey Report (ASR).

Historical Resources Evaluation Report (HRER): Prepare an HRER. This report will include research and field methods used in identifying cultural resources, the historic resources identified in the Project APE, the historic contexts based on the types of cultural resources identified, and the significance evaluations for each resource.

Community Impact Analysis (CIA) Land Use and Growth Studies: Complete the CIA in accordance with Caltrans Environmental Handbook, Volume 4 guidance. Tasks include:

- Performing ethnicity and economic studies to determine the characteristics of the communities affected by the Project. The demographic and socioeconomic data will be obtained from the latest government census data. This includes addressing Environmental Justice requirements.
- Performing land use studies to determine the relationship of the Project to local, regional, and other planning policies, and identify compatibility issues with existing land uses.
- Identifying any potential Section 4(f) resources in the Project vicinity and analyze any impacts.
- Addressing growth inducement issues.
- Identifying affected property owners, communities, public facilities within the Project area of influence.
- Evaluating direct, indirect, and cumulative impacts of the proposed Project alternatives to affected communities pertaining to social impacts (relocation of housing, businesses, population characteristics, community institutions, community stability and cohesion); economic impacts (change in employment, property values, income gains or loss, tax base changes); land use and growth (consistency of Projects with local plans, shift in location where growth will occur, development opportunities enhanced); and public services impacts (schools and health systems, police and fire protection, accessibility and parking, utilities).
- Addressing ROW impacts based on the results of the Relocation Impact Report (a separate task under this scope of services).

- Addressing potential environmental justice impacts (unavoidable adverse effects that would be disproportionately borne by minority and/or low-income populations).
- Coordinating with local and regional agencies, ethnic and community groups, and business organizations.
- Preparing a CIA technical report outlining study results, potential significance of impacts and significance criteria, and proposed mitigation measures.
- Preparing relevant community impact sections for inclusion in the ED.

Air Quality Study: Determine impacts to regional and local air quality associated with implementation of the proposed Project per the current state and federal requirements. Conduct all required interagency coordination as part of the local and regional air quality conformity determination. Prepare an air quality conformity report to be submitted to FHWA for review and approval. The Air Quality Analysis will be prepared in accordance with Caltrans Transportation Project-Level Carbon Monoxide Protocol, FHWA/EPA Transportation Conformity Guidance for Qualitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas, Transportation Project-Level Carbon Monoxide Protocol (CO Protocol), and FHWA Interim Guidance on Air Toxic Analysis in NEPA Documents. Include a Climate Change section consistent with the Caltrans SER.

The Air Quality Analysis will document whether the proposed Project is included in the latest Regional Transportation Plan (RTP), and Federal Transportation Improvement Program (FTIP) and Federal Statewide Transportation Improvement Program (FSTIP) for preliminary engineering and environmental documentation. The Air Quality Report will make a final determination whether the build alternatives will conform to applicable state and federal air quality plans. Mitigation measures will be defined for any construction and/or operational impacts that are identified. Tasks include:

- Conducting early consultation with Caltrans air quality staff to confirm appropriate scope of work, data requirements and analysis approach.
- Summarizing current regulatory framework (federal and state regulations), conformity designations and current ambient monitoring station measurements for criteria pollutants.
- Identifying sensitive receptors within the Project area.
- Calculating regional burden emissions using available traffic analysis output for criteria pollutants; tabulating existing conditions and no-build/build comparisons for year of opening and applicable horizon year.
- Conducting CO hot spot analysis for selected sensitive receptor locations; tabulate results for existing conditions and no-build/build comparisons for year of opening and applicable horizon year.
- Conducting qualitative analysis for PM₁₀ and PM_{2.5}.
- Preparing draft submittal for conformity interagency consultation with SCAG Transportation Conformity Working Group (TCWG); review with Caltrans staff and assist in presentation to TCWG.
- Preparing qualitative assessment of mobile source air toxics (MSATs) following guidelines in the FHWA's "Interim Guidance Update on Air Toxic Analysis for NEPA Documents."
- Preparing qualitative discussion of construction impacts.

- Addressing impacts of the proposed Projects on climate changes following the latest guidelines issued by Caltrans Headquarters at the time the analysis is conducted.
- Preparing an air quality impact section for inclusion in the ED.

Water Quality Studies: Prepare a WQAR using the Caltrans Water Quality Assessment Report Content and Recommended Format. The WQAR will discuss watershed characteristics, groundwater hydrology, regulatory requirements, pollutants of concern, and receiving waters conditions, objectives, and beneficial uses. The report will also discuss design pollution prevention BMPs, construction site BMPs, and treatment BMPs that are applicable to the Project alternatives per Caltrans Storm Water Quality Handbooks Project Planning and Design Guide. Information to be obtained from the SWDR and incorporated into the WQAR includes, but is not limited to, proposed BMPs, disturbed soil area, and new impervious surface area for each alternative. The Project's potential impact on water quality will be evaluated and mitigation measures necessary to prevent adverse water quality impacts will be identified. In addition, rough hydrologic calculations (suitable for determination of estimated storm water runoff volumes) based upon topography and preliminary engineering plans will be provided by the project engineer and incorporated into the WQAR.

Floodplain Study: Perform a floodplain evaluation in accordance with the requirements of Executive Order 11988 and CEQA guidelines. Utilize the Floodplain Encroachment Evaluation Guideline, by reviewing the most recent Federal Emergency Management Agency (FEMA) Federal Insurance Rate maps of the Project area and identifying the limits of the base (100-year) floodplain and regulatory floodway. Prepare a Summary Floodplain Encroachment Report based on a Location Hydraulic Study. This scope of work presumes that the proposed alternatives will not cause a significant floodplain encroachment as defined by 23 CFR 650.105 and is consistent with existing watershed and floodplain management programs. The report will discuss potential impacts for each alternative and recommend mitigation measures related to floodplain encroachment, flood-related hazards, natural or beneficial floodplain values, access interruption, and the community floodplain development plan.

Paleontology Study: All tasks will be conducted/prepared per the guidelines set forth by Caltrans SER, Environmental Handbook (EH), Volume 1, Chapter 8 – Paleontology (Revised February 2012); and guidelines developed by the Society of Vertebrate Paleontology (SVP, 1995 and 2010). The tasks are:

- **Locality Search:** Conduct a geological and paleontological literature and locality review through the San Bernardino County Museum (SBCM), and records maintained by the Consultant. All information will be summarized in the Paleontological Investigation Report (PIR).
- **Field Survey:** Depending on the results of the locality search, complete a windshield or pedestrian survey of the Project footprint. The purpose of the survey is to confirm the geology as it has been mapped, confirm the presence of any localities that may have been recorded, and to determine if there might be any unrecorded localities within the Project footprint. Results will be summarized in the PIR.
- **Paleontological Investigation Report (PIR):** This report details results of the locality search, the geological investigation, and the field survey. Assess whether there are known or reasonably anticipated paleontological resources within the

Project footprint. If so, based on the description of proposed work and excavation parameters, determine whether the Project excavation will impact those resources.

- **Paleontological Evaluation Report (PER):** Prepare a PER. This report is usually combined with the PIR and is prepared when the PIR determines that there is potential for paleontological resources to be encountered during excavation.

Permits List: Prepare a list of permits required to complete project.

Visual Impact Assessment and Scenic Resource Evaluation: Perform all activities related to Visual Impact Assessment (VIA) and Scenic Resource Evaluation (SRE) for use in the environmental document, and prepare a technical report documenting study results. The VIA will be prepared to conform to the guidance provided in the “FHWA Visual Impact Assessment for Highway Projects” guide and the guidance and templates provided within the Caltrans SER. The studies and the preparation of the VIA will be conducted under the supervision of a licensed landscape architect. Coordinate with the SANBAG and Caltrans to determine the locations of viewpoints and prepare a Draft VIA. Prepare a final VIA. Tasks include:

- Conducting site visits to document through digital photography, existing views within the Project area and supporting features for use in the preparation of simulated views.
- Preparing photographic simulations to support key viewpoints and showing existing versus build conditions.

Location Hydraulic and Floodplain Study Reports: Perform all activities related to preparing a Location Hydraulic Study, including structures hydraulics, for use in the environmental document and Draft Project Report, and a flood plain study for use in the Environmental Document, and prepare a technical report or reports documenting study results. These studies are usually combined into one document since they address largely the same issues. The Location Hydraulic Study is a specific FHWA requirement where a project will encroach on a flood plain. The Flood plain Study may consider a broader range of issues than FHWA requires for the Location Hydraulic Study, and is usually part of the information required to coordinate with the Corps of Engineers in the 404 permit process.

Hazardous Waste Initial Site Assessments/Investigations: Hazardous waste Initial Site Assessment (ISA). An ISA is required for all projects. Conduct a hazardous waste initial site assessment (ISA) for the Project and prepare an ISA consistent with *Caltrans Preparation Guidelines for Initial Site Assessments*. The results of the ISA will determine the level of further investigation required. Tasks include:

- Conducting an agency records search to identify hazardous waste sites located within the Project study area and classified as a hazardous waste site under State law. The records search will also identify business types located within the Project study area that would be likely to store, transfer, or utilize large quantities of hazardous materials. Utilize a database service to perform this search with a ½-mile search radius from the Project boundaries.
- Conducting a field inspection and visual survey of the Project area via available public access to identify obvious areas of hazardous waste contamination.
- If hazardous waste sites are identified, evaluate potential impact to the Project and

identify subsequent procedures to further evaluate the extent of potential contamination and remediation requirements.

- Aerially Deposited Lead (ADL) Report: Based on construction dates of the existing facilities, determine if ADL testing is required. If ADL testing is warranted, test unpaved areas of the Project at a spacing of 100 to 200 feet for ADL contamination and present the findings in a report. Utilize an approved Health and Safety Plan. Prior to field work, submit a Work Plan, detailing field activities to Caltrans. The Health and Safety Plan will include guidelines for the use of personal protective equipment and sampling procedures and address procedures for sampling and laboratory analysis.
- Bridge Asbestos and Lead Studies: Based on the construction dates of the existing facility, prepare an asbestos and lead investigation recommendation. If warranted, investigate the existing structure materials for the presence of asbestos and/or lead in paint. The survey for each bridge location will consist of sampling accessible, suspect friable and non-friable asbestos containing materials (ACMs) and suspect lead-based paints (LBPs) observed on any of the readily accessible bridge structural components. The results of the sampling and testing will be properly analyzed using methods consistent with Caltrans requirements. The findings will be submitted in a Project ACM/LBP report.

Preliminary Site Investigation for Hazardous Waste: If the ISA identifies potentially contaminated sites or properties, the available information must be evaluated to determine whether it is adequate to estimate risk to the Department and impacts to the Project cost, scope, and schedule. If the available information is not adequate to meet all of these needs, a Preliminary Site Investigation (PSI) and potentially, a Detailed Site Investigation (DSI) will be required. The results of these investigations will be used to prepare the hazardous waste section of the ED. The PSI consists of a confirmatory investigation to determine whether suspected contamination is actually present on the property or site. If the PSI indicates the presence of contamination that may impact the Project, but does not adequately delineate it, then a DSI is necessary. A DSI is conducted to determine the full nature and extent of contamination so that remediation costs, impacts to Project scope and schedule, and future liability to the state can be realistically estimated. Tasks include:

- Conducting a geophysical survey to clear the site of subsurface hazards prior to sample collection activities. The survey will include Ground Penetrating Radar (GPR), along with other electromagnetic (EM) methods to identify potential subsurface hazards.
- Soil and/or groundwater sampling will be conducted with direct push or hollow stem auger drilling systems. The sampling activities will be used to collect subsurface soil and groundwater samples and to assess the soil lithology and hydrogeology. The soil samples will be analyzed by an offsite State of California Certified laboratory for chemicals of concern.
- Secure Right of Entry signatures from the parcel owners, City, County or Caltrans.
- Prepare a limited PSI Work plan and Site-Specific Health and Safety Plan prior to commencement of field activities.
- Mark proposed borings, contact Dig-Alert, and perform a geophysical survey in an attempt to identify underground utilities and other features in the vicinity of proposed

boring locations.

- Conduct a PSI (limited Phase II ESA). It is assumed that PSI will be conducted over the course of up to two days per site and will require two separate mobilizations. Right of entry permits will be required prior to accessing each site.
- It is anticipated that the field work can commence within one to two weeks upon written authorization by the client, approval of the necessary permits, and receipt of Right-of-Entry permits for each property. It is anticipated that a written report can be completed within approximately eight to ten weeks after the notice to proceed. The PSI Report will include:
 - Summary of field activities;
 - Description of boring and sample locations;
 - Tabulated results of analysis;
 - Conclusions and recommendations;
 - Sample location maps;
 - Boring logs;
 - Laboratory analytical reports.

Biological Studies Biological and Assessment Perform all activities related to preparing Biological Studies related to the project.

Natural Environment Study (NES) Report: Based on information developed in the Biological Assessment and other information as directed by technical guidance, prepare a NES Report. This report demonstrates compliance with biological study and consultation requirements, and providing language and mitigation measures for use in the Environmental Document. Prepare the Abstract for use in Environmental Document.

Cultural Resource Studies Perform studies and prepare cultural resources (archaeological, historical, and architectural) reports) in order to comply with the requirements of CEQA, NEPA, Section 106 of the National Historic Preservation Act, and Section 5024 of the California Public Resources Code. Includes consultation with Native American communities.

Area of Potential Effects/Study Area Maps: Efforts required for preparing an Area of Potential Effects (APE) maps for projects with a Federal nexus and Study Area maps for those with State-only involvement.

Draft Environmental Document

Prepare Draft Environmental Document (DED) with all attachments or Categorical Exemption/Categorical Exclusion documentation. Conduct all necessary in-house and external reviews (NEPA and CEQA documents) and obtain U.S. DOT (Federal Highways (FHWA), FTA, or other Administration) approval to circulate NEPA Document and completed CE documentation or approval to circulate DED.

Approval to Circulate Resolution Includes time and effort required to resolve US DOT comments. Management of project-specific environmental resources, schedules, and information, and coordination of the studies required for the environmental document. Obtain Approval to Circulate

Deliverables: Include both Draft, Preliminary and Final Documents

- Preliminary Environmental Assessment Report
- List of Permits
- Project and Public Mailing List
- Public and Agency Scoping Documents
- Public Participations Plan
- Meeting Minutes and Documentation
- Community Impact Analysis Land Use and Growth Studies
- Visual Impact Assessment
- Noise Study
- Air Quality Study
- Water Quality Studies
- Draft Right of Way Relocation Impact Document
- Hydraulic and Floodplain Study
- Paleontology Study
- Environmental Commitments Record
- Initial Site Assessment
 - ADL Testing Recommendation
 - ADL Work Plan
 - ADL Report
 - Asbestos and Lead Test Recommendations
 - Asbestos Work Plan
 - Lead Based Paint Work Plan
 - Asbestos Report
 - Lead Based Paint Report
- Hazardous Waste Initial Site Assessments
 - Phase I testing
 - Phase II testing
- Biological Studies and Cognizant Agency Coordination
- Natural Environment Study
- Cultural Resource Studies
- Area of Potential Effects Study and Maps
- Categorical Exemption/Categorical Exclusion documentation
- Draft Environmental Document

Task 175 Circulate Draft Environmental Document and Select Preferred Project Alternative

The Task involves the circulation of the Draft Environmental Document (DED), obtaining and responding to public comment, and selecting a preferred alternative. Tasks include but not limited to:

- Preparation and circulation of the DED.
- Updating the project mailing list and preparation of the distribution list for all interested individuals, groups, and governmental agencies.
- Preparation and issuance of the Notice of Availability for the DED, mail notifications of the public hearing, either the published "Notice of Opportunity" or the first published public hearing notice.

- Publication and circulation of the DED including the formal public circulation period, publishing/reproduction (including both paper and electronic formats) and mailing of the DED. Includes transmittal of DED to CTC and preparation of CTC agenda item.
- Advertising/noticing and holding the Public Hearing and distribute the record of the Public Hearing.
- Scheduling meetings with the interested parties to determine as required.
- Responding to comments on the DED for the preparation of the Final Environmental Document (FED).
- Incorporation of the PDT identified preferred alternative to be carried forward in the Project Report (PR) and Final Environmental Document (FED) and record the decision.
- Preparation and submittal to the NEPA/404 Agencies, a request for concurrence with the Least Environmentally Damaging Practicable Alternative (LEDPA) determination and conceptual mitigation plan.

Task 180 Project Report and Final Environmental Document

The Task involves the preparation, review, approval and distribution of the Project Report, Final Environmental Document and Notices of Determination and/or Records of Decision. The updated DED identifies the rationale for selection of the Preferred Alternative, Includes work on the Final Environmental Document (FED), Section 4(f) Evaluation, Findings, and Statement of Overriding Considerations. Carry out formal and informal review of FED including all required quality control reviews.

Distribution includes:

- Publication/reproduction including both paper and electronic formats
- Preparation of a transmittal letter
- Publication of the Notice of Availability
- Transmittal of copies of the Federal Register
- Distribution of the Final Environmental Document (FED)
- Assisting in the preparation of CTC agenda item
- Response to comments on the FED
- Complete the draft Right of Way Impact Study
- Preparation of the Notice of Determination (NOD) and Record of Decision (ROD) and obtaining FHWA approval of the ROD.
- Draft and obtain Federal approval of the Record of Decision (ROD)
- Preparation of Notice of Determination (NOD)
- Preparation of the Environmental Commitments Record (ECR)

Task 185 Prepare Base Maps and Plan Sheets during PS&E Development

Work during PS&E development involves the preparation of geometric base maps and functional base plan sheets, including review of existing project information, gathering appropriate mapping, conducting additional studies. Final products of this task include preparation of Right of Way maps and plan sheets.

The task includes updating the project information needed to prepare the engineering design report, perform preliminary design and determine ROW requirements. Specifically:

- Field reviews and topographic surveys
- Research and obtain copies of existing studies
- Research, obtain, and review utility maps and plans
- Obtain Record of Survey, benchmark, and centerline tie information
- Produce mapping and survey control necessary for the PS&E including
 - Incorporation of Basic (Corridor) Control and adjacent projects
 - Establishing primary control throughout the project
 - Establishing supplemental control for the project
 - Documenting the control survey.

Deliverables:

- Updated project information and confirmation of Purpose and Scope
-
- Permanent Project Control Monumentation
- Project Control Diagram or Control Record of Survey
- Project Control Report
- Project file containing the following:
 - Topography
 - Structures
 - Utility Locations (existing and proposed)

Task 230 Prepare Draft PS&E

Work involves the preparation and review of draft roadway plans, specifications, estimates, roadway design and functional PS&Es.

Draft Highway Planting Plans: Activities include design, field reviews, delineation, and internal/external coordination of highway-planting plan sheets for construction contract.

Engineering Reports: Finalize project design reports needed to establish design parameters and complete design.

Subsurface Exploration: This task includes all efforts required to ready a site for subsurface exploration. Subsurface exploration may require prior acquisition of rights to enter, resource/regulatory agency permits, or other cross-functional compliance efforts.

Geotechnical Design Report (GDR): This task includes all efforts required to finalize a Geotechnical Design Report (GDR), from subsurface exploration through report and boring log completion. The purpose of the GDR is to provide the geotechnical recommendations required to produce a complete District PS&E. The GDR requires sufficient subsurface exploration, including test borings, soundings and/or geophysics, to characterize geologic and geotechnical conditions for the project.

Pavement Design Report: This task includes all efforts required to finalize a Pavement Design Report.

Materials Report: This task includes all efforts required to finalize a Materials Report. A Materials Report must be prepared for all projects that involve any of the following components:

- Pavement structure recommendations and/or pavement studies
- Culverts (or other drainage materials)
- Corrosion studies
- Materials disposal sites
- Slide prone areas with erosive soils

Highway Planting Plans: Task includes activities, such as design, field reviews, delineation, and internal/external coordination necessary to develop highway-planting plan sheets for construction contract.

Deliverables:

- Roadway Plans
- Highway Plans
- Traffic Plans
- Transportation Management Plan
- Utility Plans
- Drainage Report
- Specifications
- PS&E Quantities Estimate
- Structures
- Engineering Report
 - Hydrology and Hydraulics Reports
 - Subsurface Exploration Studies
 - Geotechnical Design Report
- Draft PS&E Package

Task 250 Final Structures PS&E Package

The task involves addressing comments on the Draft Structures PS&E and incorporation into the final Structures PS&E package. This task includes all efforts involved in the development of the overall final structures. Activities include, but are not limited to:

- Project Review
- Constructability Review Meeting of draft Structures PS&E package
- Revisions to the Plans, Special Provisions, and Cost Estimates
- Transmittal of final Structures PS&E package to District Office Engineer, DES Office Engineer, or appropriate agencies for an external review
- Other activities related to the development of the final Structures PS&E package.

Deliverables:

- Final Structures PS&E Package

Task 255 Circulate, Review and Prepare Final District PS&E Package

This activity includes reproduction, distribution, coordination, and circulation of the project's plans, specifications and estimate. Included are coordinating reviews, reaching consensus and incorporation of comments. Task includes:

- Review Final Plans for Constructability (95%) and inclusion in package.
- Review Project for Final Permit Needs
- Review Aesthetics
- Review the Final Traffic Management Plan(TMP)
- Review All Specifications and Estimate
- Review Hydrology and Hydraulic design elements and specifications
- Review Geotechnical Design Elements and specifications
- Review Pavement design elements and specifications
- Review Materials design elements and specifications
- Review for Conformity with Environmental Commitments
- Perform Safety Review
- Perform PS&E Reviews

Deliverables:

- Comment Resolution
- Updated PS&E Package
- Approved Environmental Reevaluation
- Final PS&E Package
- Geotechnical Information Handout
- Materials Information Handout
- Construction Staking Package
- Resident Engineer's Pending File

Task 220 Right of Way Engineering

SANBAG will provide Right of Way Services. This task identifies Right of Way support services. Services include Right of Way Engineering work in advance of Appraisal and Acquisition activities.

Land Net Survey, Maps and Documents: Search, recover, describe, and tie-in existing controlling land survey monuments, followed by observation adjustment and calculating coordinates. The Land-Net Map depicts the condition of existing property ownership boundaries, lines, and monuments (land net). Effort entails completion of work activities required to analyze, determine, and delineate a single land-net that encompasses the whole project.

Right of Way Maps: Prepare ROW maps that include the certification of the sufficiency of the right of way by designers prior to finalizing the appraisal maps. Includes identifying the need for new right of way, permanent easements, and temporary construction easements. Includes coordination with affected agencies to determine right of way impacts. This includes incorporation of utility right of way needs. Develop utility maps to avoid utility relocation where possible.

Appraisal Maps: calculation and delineation of all new parcels and sub-parcels, using the Land Net Map.

Field Located Right of Way:

- Flagged Right of Way: Provide temporary and approximate marking of the right of way. Used for the purpose of appraisal, acquisition, disposal of land, or utility relocation planning and estimating.
- Staked Right of Way: Provide a permanent and accurate marking of the right of way. Used to provide a durable visible location of a right of way feature and its angle points.

Support SANBAG ROW Efforts to secure deeds, legal descriptions, Resolutions of Necessity, Director's Deeds and Plats, Utility Deeds and Plats.

Deliverables:

- Land Net Survey, Maps and Documents
- Right of Way Maps
- Utility Location Maps
- Appraisal Maps
- Field Located Right of Way
 - Flagged Right of Way
 - Staked Right of Way
- Support SANBAG ROW efforts

Task 270 Construction Engineering - Technical Support

Provide Technical Support to the construction engineering staff including design, traffic, hydraulics, materials, structures design, geotechnical services, environmental, landscape and other specialty staff. Functional support may include attendance at pre-work conferences, on-site construction support and RE pending file review.

Task 295 – Accept Contract/Prepare Final Construction Estimate and Final Report
Work involved in the acceptance and final documentation of a construction contract.

Work involved includes coordination with the construction manager and/or Resident Engineer to develop as-built plans in accordance with Caltrans and the City Standards. Work includes the transfer of the red-line As-Built plan mark-ups to the original full size reproducible plan sheets (or CADD file) and forwarding a reproducible set of plans with the transferred As-Built changes to SANBAG, Caltrans and the City.

Deliverables:

- Red line construction package
- As-Built construction package
- Electronic submittal for Caltrans and City records

Minute Action

AGENDA ITEM: 7

Date: *February 12, 2015*

Subject:

Development Mitigation Nexus Study and Equitable Share Percentages for the Valley Major Street Arterial Program

Recommendation:

That the following be reviewed and recommended for final approval by the Board of Directors, acting in its capacity as the San Bernardino County Transportation Authority, at a regularly scheduled Board meeting:

A. Approve a technical correction to the Development Mitigation Nexus Study and the equitable share percentages for the Measure I Valley Major Street Arterial Program. The correction is to modify the development share (fair share) percentage for the City of Upland from 48.3% to 39.4% and to update the equitable share percentages as shown in Column E of Attachment 1.

B. Approve a revision to the formula-based cumulative allocations (Fiscal Year 2010-2011 to Fiscal Year 2014-2015) for the Valley Major Street Arterial Sub-program as shown in Column I of Attachment 1.

Background:

The purpose of this agenda item is to approve a technical correction to the Development Mitigation Nexus Study and updated equitable share percentages for the Measure I Valley Major Street Arterial Program based two changes: 1) a change to the City of Upland development share, and 2) an annexation that occurred in the City of Rialto subsequent to the 2007 Nexus Study. The technical correction is to modify the development share (fair share) percentage for the City of Upland from 48.3% to 39.4% and to update the equitable share percentages as shown in Column E of Attachment 1.

The SANBAG Development Mitigation Nexus Study was originally approved by the SANBAG Board of Directors, acting as the San Bernardino County Congestion Management Agency (CMA), on October 5, 2005. This was required by Section VIII of the Measure I 2010-2040 Ordinance, stating that *“No revenue generated from the tax shall be used to replace the fair share contributions required from new development.”*

The Nexus Study was implemented as a component of the San Bernardino County Congestion Management Program (CMP) and was incorporated as Appendix K of the CMP. The Nexus Study has been revised by the Board nine times, through either amendments or biennial updates.

The SANBAG Board approved the Measure I Strategic Plan in April 2009. One of the concepts included in the Strategic Plan was that of “equitable shares” in the distribution of funds among jurisdictions under the Valley Major Street Arterial Program. Measure I Policy 40006 defines

Entity: CTA

equitable shares as: “The percentage of Measure I Arterial Sub-program funding guaranteed to each Valley jurisdiction over the life of Measure I 2010-2040. The percentage is the ratio of public share costs for each jurisdiction’s list of arterial projects to total Valley arterial public share costs in the Development Mitigation Nexus Study approved by the SANBAG Board in November 2007.” The “Original Equitable Share %” column in Attachment 1 shows the equitable shares as included in the Strategic Plan.

Certain Measure I funding distributions, such as the Valley Local Street Program, are based on population. It is important to note that the equitable shares for the Valley Major Street Arterial Program are “needs-based.” This means that the shares are related to the projects that each Valley jurisdiction included in the 2007 version of the Nexus Study, combined with the “public share” of the costs. The public share of a project is sometimes referred to as the SANBAG share of costs, and is calculated as:

$$\text{Project cost} \times (100\% - \% \text{ development share})$$

If a jurisdiction had an aggressive infrastructure program relative to their population, the equitable share for their jurisdiction would be higher than average. But this would also force their development impact fees higher, which would have influenced jurisdictions to limit the number and size of projects to a reasonable level.

One of the stipulations of the Nexus Study implementation language (Appendix J of the CMP, section J.2.2) is that the equitable shares in the Strategic Plan be held constant over the life of the Measure, except for adjustments due to annexations. The reason for this is that both the growth forecasts and project lists are modified every several years for the Regional Transportation Plan and other purposes. Allowing the equitable shares to be adjusted on a frequent basis would create a “moving target,” and it was deemed by the Board, through the approval of the Nexus Study policy, that percentages should remain stable over time.

The City of Upland recently made an inquiry of SANBAG regarding the development share in the Nexus Study. The City noted that the 2005 Nexus Study showed their development share at 39.4 percent, while the 2007 Nexus Study showed their percentage at 48.3 percent. Upon looking into the question, SANBAG staff located an input error in the growth forecast portion of the 2007 Nexus Study master Excel workbook. The multi-family dwelling unit forecast was inadvertently changed between the 2005 and 2007 Nexus Study from 14,134 to 29,443 for the year 2030. This also affected the 2004 dwelling units because of an interpolation from a 2003 value. The 2004 multi-family dwelling units should have been 10,751, not the 11,340 included in the 2007 Nexus Study. Multi-family dwelling units are one input to the equations that drive the development share calculations. The other growth-related inputs are single family dwelling units, retail employees, and non-retail employees.

Staff is requesting Board approval of a correction to the Nexus Study, adjusting the City of Upland Development Share from 48.3% to 39.4%, retroactive to the 2007 Nexus Study. The fact that the City of Upland has not yet billed SANBAG for any Major Street Program arterial funds makes the change back to 39.4% quite easy, in most respects. No prior invoices need to be modified, and the change will not affect their development impact fee (DIF), since the City was basing their transportation DIF on the 2005 Nexus Study as adjusted for inflation, per SANBAG escalation factors. This can be considered a technical correction in the Nexus Study tables.

Board of Directors Metro Valley Study Session Agenda Item

February 12, 2015

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However, one other impact of this error in the development share calculation relates to the equitable share of arterial funds determined for each jurisdiction. With Upland's development share going back down to the original 2005 level, the City's equitable share would go up from 2.35% to 2.74% of the Valley arterial funds. This means that the equitable shares for the other jurisdictions will be reduced by small fractions of a percent.

One of the other equitable share adjustments needing to be made is associated with an adjustment to the City of Rialto's development share, from 40.0 percent to 40.9 percent that was approved by the SANBAG Board for the 2009 update of the Nexus Study based on an annexation that occurred in the City. This results in a reduction in Rialto's equitable share of 0.05%. When combined with the .02% reduction resulting from the increase in Upland's equitable share, Rialto's total reduction was .07%, explaining why Rialto's reduction was higher than would have been expected otherwise.

Attachment 1 provides the table of adjustments to the equitable shares for all the Valley jurisdictions. Board approval is being requested of the adjusted equitable shares to guide allocations for the Valley Major Street Arterial Program.

Additionally, based on the changes to the equitable shares, Fund Administration and Programming has analyzed the impact to the annual allocations of arterial funds to each jurisdiction since Fiscal Year 2010/2011. Attachment 1 shows the proposed adjusted cumulative allocation of arterial funds through Fiscal Year 2014/2015 based on the revised equitable shares.

For the changes brought about by the Upland adjustment to result in a full 100% allocation, equitable shares must be rounded to hundredths of a percent, whereas previous allocation formulas have been based on equitable shares that were rounded to tenths of a percent. Because of this refinement, Colton will also see an increase in their total allocation through Fiscal Year 2014/2015. In that case, their original equitable share was 2.54% but rounded to 2.5% for allocation calculations, resulting in lower allocations than if the full equitable share was used. The proposed revised equitable share of 2.534% will result in an overall increased allocation. Staff will continue to use thousandths of a percent for equitable share calculations in all future allocations so that all jurisdictions are receiving their full share of the arterial funds.

Financial Impact:

This item has no impact on the Fiscal Year 2014/2015 SANBAG budget.

Reviewed By:

This item is not being reviewed by any other policy committee. The substance of this item was reviewed by the Transportation Technical Advisory Committee on January 5, 2015 and February 2, 2015.

Responsible Staff:

Steve Smith, Director of Planning

Approved
Board of Directors Metro Valley Study Session
Date: February 12, 2015

Witnessed By:

ATTACHMENT 1

REVISED ALLOCATION MEASURE I VALLEY MAJOR STREET ARTERIAL PROGRAM BASED ON REVISED EQUITABLE SHARES											
A	B	C	D	E	F	G	H	I	J	K	
Jurisdiction	Current Development Share % (Ratio of Trip Growth to 2030 Trips)	Revised Development Share with Upland at 39.4%	Original Equitable Share	Revised Equitable Share	Original Equitable Share Rounded for Allocations	Adjustment Needed (Col. F-E)	Cumulative Allocation by Formula FY10/11-FY14/15	Revised Cumulative Allocation FY10/11-FY14/15	Change in Allocation (Col I-H)	Change in Allocation % (Col J/H)	
Chino	35.2%	35.2%	7.62%	7.591%	7.60%	-0.009%	\$3,195,198.26	\$3,191,417.39	-\$3,780.87	-0.12%	
Chino Hills	13.7%	13.7%	2.20%	2.194%	2.20%	-0.006%	\$924,922.92	\$922,404.13	-\$2,518.79	-0.27%	
Colton	43.6%	43.6%	2.54%	2.534%	2.50%	0.034%	\$1,051,058.77	\$1,065,347.34	\$14,288.57	1.36%	
Fontana	32.1%	32.1%	19.47%	19.400%	19.50%	-0.100%	\$8,198,220.40	\$8,156,171.43	-\$42,048.97	-0.51%	
Grand Terrace	39.9%	39.9%	1.39%	1.389%	1.40%	-0.011%	\$588,587.31	\$583,965.06	-\$4,622.25	-0.79%	
Highland	46.4%	46.4%	6.80%	6.777%	6.80%	-0.023%	\$2,858,862.65	\$2,849,194.52	-\$9,668.13	-0.34%	
Loma Linda	38.8%	38.8%	4.09%	4.074%	4.10%	-0.026%	\$1,723,719.98	\$1,712,796.00	-\$10,923.98	-0.63%	
Montclair	18.9%	18.9%	0.60%	0.597%	0.60%	-0.003%	\$252,251.70	\$250,991.46	-\$1,260.24	-0.50%	
Ontario	44.4%	44.4%	12.32%	12.272%	12.30%	-0.028%	\$5,171,179.94	\$5,159,409.06	-\$11,770.88	-0.23%	
Rancho Cucamonga	28.7%	28.7%	5.06%	5.044%	5.10%	-0.056%	\$2,144,139.49	\$2,120,604.57	-\$23,534.92	-1.10%	
Redlands	23.1%	23.1%	4.87%	4.854%	4.90%	-0.046%	\$2,060,065.59	\$2,040,724.54	-\$19,341.05	-0.94%	
Rialto	40.9%	40.9%	3.90%	3.831%	3.90%	-0.069%	\$1,639,646.08	\$1,610,633.65	-\$29,012.43	-1.77%	
San Bernardino	32.4%	32.4%	7.89%	7.857%	7.90%	-0.043%	\$3,321,334.11	\$3,303,249.43	-\$18,084.68	-0.54%	
Upland	48.3%	39.4%	2.35%	2.743%	2.30%	0.443%	\$966,964.87	\$1,153,215.37	\$186,250.50	19.26%	
Yucaipa	30.9%	30.9%	5.99%	5.965%	6.00%	-0.035%	\$2,522,527.05	\$2,507,812.50	-\$14,714.54	-0.58%	
County	39.5%	39.5%	12.91%	12.878%	12.90%	-0.022%	\$5,423,441.65	\$5,414,184.31	-\$9,257.34	-0.17%	
TOTALS			100.00%	100.000%	100.00%	0.000%	\$42,042,120.75	\$42,042,120.75	\$0.00	0.00%	

Attachment: Attachment 1 - Equitable Shares Check 2013 (1412) : Development Mitigation Nexus Study

BOARD OF DIRECTORS METRO VALLEY STUDY SESSION ATTENDANCE RECORD – 2015

Name	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Curt Hagman Board of Supervisors	X											
James Ramos Board of Supervisors												
Janice Rutherford Board of Supervisors	X											
Josie Gonzales Board of Supervisors	X											
Robert Lovingood Board of Supervisors												
Rich Kerr City of Adelanto												
Curt Emick Town of Apple Valley												
Julie McIntyre City of Barstow												
Bill Jahn City of Big Bear Lake	X											
Dennis Yates City of Chino	X											
Ed Graham City of Chino Hills	X											
Frank Navarro City of Colton	X											
Michael Tahan City of Fontana	X											
Darcy McNaboe City of Grand Terrace												
Mike Leonard City of Hesperia												
Larry McCallon City of Highland	X											

Communication: Attendance (Additional Information)

X = member attended meeting. * = alternate member attended meeting. Empty box = Did not attend meeting. Crossed out box = not a Board Member at the time.

MVSSatt15 Shaded box = No meeting

BOARD OF DIRECTORS METRO VALLEY STUDY SESSION ATTENDANCE RECORD – 2015

Name	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Rhodes ‘Dusty’ Rigsby City of Loma Linda	X											
Paul Eaton City of Montclair	X											
Edward Paget City of Needles												
Alan Wapner City of Ontario												
L. Dennis Michael City of Rancho Cucamonga	X											
Jon Harrison City of Redlands	X											
Deborah Robertson City of Rialto	X											
R. Carey City of San Bernardino	X											
Joel Klink City of Twentynine Palms												
Ray Musser City of Upland												
Ryan McEachron City of Victorville	X											
Dick Riddell City of Yucaipa	X											
George Huntington Town of Yucca Valley												

Communication: Attendance (Additional Information)

X = member attended meeting. * = alternate member attended meeting. Empty box = Did not attend meeting. Crossed out box = not a Board Member at the time.

MVSSatt15 Shaded box = No meeting

San Bernardino Associated Governments (SANBAG) is a council of governments formed in 1973 by joint powers agreement of the cities and the County of San Bernardino. SANBAG is governed by a Board of Directors consisting of a mayor or designated council member from each of the twenty-four cities in San Bernardino County and the five members of the San Bernardino County Board of Supervisors.

In addition to SANBAG, the composition of the SANBAG Board of Directors also serves as the governing board for several separate legal entities listed below:

***The San Bernardino County Transportation Commission**, which is responsible for short and long range transportation planning within San Bernardino County, including coordination and approval of all public mass transit service, approval of all capital development projects for public transit and highway projects, and determination of staging and scheduling of construction relative to all transportation improvement projects in the Transportation Improvement Program.*

***The San Bernardino County Transportation Authority**, which is responsible for administration of the voter-approved half-cent transportation transactions and use tax levied in the County of San Bernardino.*

***The Service Authority for Freeway Emergencies**, which is responsible for the administration and operation of a motorist aid system of call boxes on State freeways and highways within San Bernardino County.*

***The Congestion Management Agency**, which analyzes the performance level of the regional transportation system in a manner which ensures consideration of the impacts from new development and promotes air quality through implementation of strategies in the adopted air quality plans.*

*As a **Subregional Planning Agency**, SANBAG represents the San Bernardino County subregion and assists the Southern California Association of Governments in carrying out its functions as the metropolitan planning organization. SANBAG performs studies and develops consensus relative to regional growth forecasts, regional transportation plans, and mobile source components of the air quality plans.*

Items which appear on the monthly Board of Directors agenda are subjects of one or more of the listed legal authorities. For ease of understanding and timeliness, the agenda items for all of these entities are consolidated on one agenda. Documents contained in the agenda package are clearly marked with the appropriate legal entity.

Meeting Procedures and Rules of Conduct

Meeting Procedures

The Ralph M. Brown Act is the state law which guarantees the public's right to attend and participate in meetings of local legislative bodies. These rules have been adopted by the Board of Directors in accordance with the Brown Act, Government Code 54950 et seq., and shall apply at all meetings of the Board of Directors and Policy Committees.

Accessibility

The SANBAG meeting facility is accessible to persons with disabilities. If assistive listening devices or other auxiliary aids or services are needed in order to participate in the public meeting, requests should be made through the Clerk of the Board at least three (3) business days prior to the Board meeting. The Clerk's telephone number is (909) 884-8276 and office is located at 1170 W. 3rd Street, 2nd Floor, San Bernardino, CA.

Agendas – All agendas are posted at 1170 W. 3rd Street, 2nd Floor, San Bernardino at least 72 hours in advance of the meeting, Staff reports related to agenda items may be reviewed at the SANBAG offices located at 1170 W. 3rd Street, 2nd Floor, San Bernardino and our website: www.sanbag.ca.gov.

Agenda Actions – Items listed on both the “Consent Calendar” and “Items for Discussion” contain suggested actions. The Board of Directors will generally consider items in the order listed on the agenda. However, items may be considered in any order. New agenda items can be added and action taken by two-thirds vote of the Board of Directors.

Closed Session Agenda Items – Consideration of closed session items *excludes* members of the public. These items include issues related to personnel, pending litigation, labor negotiations and real estate negotiations. Prior to each closed session, the Chair will announce the subject matter of the closed session. If action is taken in closed session, the Chair may report the action to the public at the conclusion of the closed session.

Public Testimony on an Item – Members of the public are afforded an opportunity to speak on any listed item. Individuals wishing to address the Board of Directors or Policy Committee Members should complete a “Request to Speak” form, provided at the rear of the meeting room, and present it to the Clerk prior to the Board's consideration of the item. A "Request to Speak" form must be completed for *each* item an individual wishes to speak on. When recognized by the Chair, speakers should be prepared to step forward and announce their name and address for the record. In the interest of facilitating the business of the Board, speakers are limited to three (3) minutes on each item. Additionally, a twelve (12) minute limitation is established for the total amount of time any one individual may address the Board at any one meeting. The Chair or a majority of the Board may establish a different time limit as appropriate, and parties to agenda items shall not be subject to the time limitations.

The Consent Calendar is considered a single item, thus the three (3) minute rule applies. Consent Calendar items can be pulled at Board member request and will be brought up individually at the specified time in the agenda allowing further public comment on those items.

Agenda Times – The Board is concerned that discussion take place in a timely and efficient manner. Agendas may be prepared with estimated times for categorical areas and certain topics to be discussed. These times may vary according to the length of presentation and amount of resulting discussion on agenda items.

Public Comment – At the end of the agenda, an opportunity is also provided for members of the public to speak on any subject within the Board's authority. *Matters raised under “Public Comment” may not be acted upon at that meeting. “Public Testimony on any Item” still apply.*

Disruptive Conduct – If any meeting of the Board is willfully disrupted by a person or by a group of persons so as to render the orderly conduct of the meeting impossible, the Chair may recess the meeting or order the person, group or groups of person willfully disrupting the meeting to leave the meeting or to be removed from the meeting. Disruptive conduct includes addressing the Board without first being recognized, not addressing the subject before the Board, repetitiously addressing the same subject, failing to relinquish the podium when requested to do so, or otherwise preventing the Board from conducting its meeting in an orderly manner. *Please be aware that a NO SMOKING policy has been established for meetings. Your cooperation is appreciated!*

SANBAG General Practices for Conducting Meetings of Board of Directors and Policy Committees

Attendance - The Chair of the Board or a Policy Committee (Chair) has the option of taking attendance by Roll Call or Self-Introductions. If attendance is taken by Roll Call, the Clerk of the Board will call out by jurisdiction or supervisorial district. The Member or Alternate will respond by stating his/her name. If attendance is by Self-Introduction, the Member or Alternate will state his/her name and jurisdiction or supervisorial district.

- A Member/Alternate, who arrives after attendance is taken, shall announce his/her name prior to voting on any item.
- A Member/Alternate, who wishes to leave the meeting after attendance is taken but before remaining items are voted on, shall announce his/her name and that he/she is leaving the meeting.

Basic Agenda Item Discussion.

- The Chair announces the agenda item number and states the subject.
- The Chair calls upon the appropriate staff member or Board Member to report on the item.
- The Chair asks members of the Board/Committee if they have any questions or comments on the item. General discussion ensues.
- The Chair calls for public comment based on “Request to Speak” forms which may be submitted.
- Following public comment, the Chair announces that public comment is closed and asks if there is any further discussion by members of the Board/Committee.
- The Chair calls for a motion from members of the Board/Committee.
- Upon a motion, the Chair announces the name of the member who makes the motion. Motions require a second by a member of the Board/Committee. Upon a second, the Chair announces the name of the Member who made the second, and the vote is taken.
- The “aye” votes in favor of the motion shall be made collectively. Any Member who wishes to oppose or abstain from voting on the motion, shall individually and orally state the Member’s “nay” vote or abstention. Members present who do not individually and orally state their “nay” vote or abstention shall be deemed, and reported to the public, to have voted “aye” on the motion.

The Vote as specified in the SANBAG Bylaws - Each Member of the Board of Directors shall have one vote. In the absence of the official representative, the alternate shall be entitled to vote. (Board of Directors only.) Voting may be either by voice or roll call vote. A roll call vote shall be conducted upon the demand of five official representatives present, or at the discretion of the presiding officer.

Amendment or Substitute Motion - Occasionally a Board Member offers a substitute motion before the vote on a previous motion. In instances where there is a motion and a second, the maker of the original motion is asked if he/she would like to amend the motion to include the substitution or withdraw the motion on the floor. If the maker of the original motion does not want to amend or withdraw, the substitute motion is not addressed until after a vote on the first motion. Occasionally, a motion dies for lack of a second.

Call for the Question - At times, a Member of the Board/Committee may “Call for the Question.”

- Upon a “Call for the Question,” the Chair may order that the debate stop or may allow for limited further comment to provide clarity on the proceedings.
- Alternatively and at the Chair’s discretion, the Chair may call for a vote of the Board/Committee to determine whether or not debate is stopped.
- The Chair re-states the motion before the Board/Committee and calls for the vote on the item.

The Chair - At all times, meetings are conducted in accordance with the Chair’s direction. These general practices provide guidelines for orderly conduct. From time-to-time circumstances require deviation from general practice. Deviation from general practice is at the discretion of the Chair.

Courtesy and Decorum - These general practices provide for business of the Board/Committee to be conducted efficiently, fairly and with full participation. It is the responsibility of the Chair and Members to maintain common courtesy and decorum.

This list provides information on acronyms commonly used by transportation planning professionals. This information is provided in an effort to assist SANBAG Board Members and partners as they participate in deliberations at SANBAG Board meetings. While a complete list of all acronyms which may arise at any given time is not possible, this list attempts to provide the most commonly-used terms. SANBAG staff makes every effort to minimize use of acronyms to ensure good communication and understanding of complex transportation processes.

AB	Assembly Bill
ACE	Alameda Corridor East
ACT	Association for Commuter Transportation
ADA	Americans with Disabilities Act
ADT	Average Daily Traffic
APTA	American Public Transportation Association
AQMP	Air Quality Management Plan
ARRA	American Recovery and Reinvestment Act
ATMIS	Advanced Transportation Management Information Systems
BAT	Barstow Area Transit
CALACT	California Association for Coordination Transportation
CALCOG	California Association of Councils of Governments
CALSAFE	California Committee for Service Authorities for Freeway Emergencies
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
CMAQ	Congestion Mitigation and Air Quality
CMIA	Corridor Mobility Improvement Account
CMP	Congestion Management Program
CNG	Compressed Natural Gas
COG	Council of Governments
CPUC	California Public Utilities Commission
CSAC	California State Association of Counties
CTA	California Transit Association
CTC	California Transportation Commission
CTC	County Transportation Commission
CTP	Comprehensive Transportation Plan
DBE	Disadvantaged Business Enterprise
DEMO	Federal Demonstration Funds
DOT	Department of Transportation
EA	Environmental Assessment
E&D	Elderly and Disabled
E&H	Elderly and Handicapped
EIR	Environmental Impact Report (California)
EIS	Environmental Impact Statement (Federal)
EPA	Environmental Protection Agency
FHWA	Federal Highway Administration
FSP	Freeway Service Patrol
FRA	Federal Railroad Administration
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
GFOA	Government Finance Officers Association
GIS	Geographic Information Systems
HOV	High-Occupancy Vehicle
ICTC	Interstate Clean Transportation Corridor
IIEP	Inland Empire Economic Partnership
ISTEA	Intermodal Surface Transportation Efficiency Act of 1991
IIP/ITIP	Interregional Transportation Improvement Program
ITS	Intelligent Transportation Systems
IVDA	Inland Valley Development Agency
JARC	Job Access Reverse Commute
LACMTA	Los Angeles County Metropolitan Transportation Authority
LNG	Liquefied Natural Gas
LTF	Local Transportation Funds

MAGLEV	Magnetic Levitation
MARTA	Mountain Area Regional Transportation Authority
MBTA	Morongo Basin Transit Authority
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MOU	Memorandum of Understanding
MPO	Metropolitan Planning Organization
MSRC	Mobile Source Air Pollution Reduction Review Committee
NAT	Needles Area Transit
NEPA	National Environmental Policy Act
OA	Obligation Authority
OCTA	Orange County Transportation Authority
PA&ED	Project Approval and Environmental Document
PASTACC	Public and Specialized Transportation Advisory and Coordinating Council
PDT	Project Development Team
PNRS	Projects of National and Regional Significance
PPM	Planning, Programming and Monitoring Funds
PSE	Plans, Specifications and Estimates
PSR	Project Study Report
PTA	Public Transportation Account
PTC	Positive Train Control
PTMISEA	Public Transportation Modernization, Improvement and Service Enhancement Account
RCTC	Riverside County Transportation Commission
RDA	Redevelopment Agency
RFP	Request for Proposal
RIP	Regional Improvement Program
RSTIS	Regionally Significant Transportation Investment Study
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan
RTPA	Regional Transportation Planning Agencies
SB	Senate Bill
SAFE	Service Authority for Freeway Emergencies
SAFETEA-LU	Safe Accountable Flexible Efficient Transportation Equity Act – A Legacy for Users
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCRRA	Southern California Regional Rail Authority
SHA	State Highway Account
SHOPP	State Highway Operations and Protection Program
SOV	Single-Occupant Vehicle
S RTP	Short Range Transit Plan
STAF	State Transit Assistance Funds
STIP	State Transportation Improvement Program
STP	Surface Transportation Program
TAC	Technical Advisory Committee
TCIF	Trade Corridor Improvement Fund
TCM	Transportation Control Measure
TCRP	Traffic Congestion Relief Program
TDA	Transportation Development Act
TEA	Transportation Enhancement Activities
TEA-21	Transportation Equity Act for the 21 st Century
TMC	Transportation Management Center
TMEE	Traffic Management and Environmental Enhancement
TSM	Transportation Systems Management
TSSDRA	Transit System Safety, Security and Disaster Response Account
USFWS	United States Fish and Wildlife Service
VCTC	Ventura County Transportation Commission
VVTA	Victor Valley Transit Authority
WRCOG	Western Riverside Council of Governments

San Bernardino Associated Governments



MISSION STATEMENT

To enhance the quality of life for all residents, San Bernardino Associated Governments (SANBAG) will:

- Improve cooperative regional planning
- Develop an accessible, efficient, multi-modal transportation system
- Strengthen economic development efforts
- Exert leadership in creative problem solving

To successfully accomplish this mission, SANBAG will foster enhanced relationships among all of its stakeholders while adding to the value of local governments.

Approved June 2, 1993
Reaffirmed March 6, 1996