Washington State Department of Transportation

Agreement Edit Information

Return this form and original executed agreement to HQ Accounting Services

Agreement Review	Agreement Number	Supplement Number
◉ Region Approved and Executed ○ HQ Agreement Review Transmittal Required	GCA 5744	2

Agreement Retention	Agreement Manager	Region
○ Retain Agreement for six (6) years after closure ◉ Retain Agreement for Twenty-Fve (25) years after closure ○ Agreement requires permanent retention (75 years)	George Humphrey	Southwest

Payor/Payee Name and Address	Org. Code	
METRO 600 Northeast Grand Avenue Portland, OR 97232-2736	441101	**All Reports will be sent to this Organization Number**
	Start Date 7/20/2009	**Vouchers will not be paid for work performed before this date**
Federal Employer ID Number *OR* Social Security Number 93-0636311	End Date 2/28/2010	**Vouchers will not be paid for work performed after this date**

Project Title

Columbia River Crossing Project

Project Description

Participation by Metro in EIS preparation.

TIME EXTENSION, ADDITIONAL WORK AND ADDITIONAL MONEY

Payable Agreement **Work by Others to be PAID by WSDOT**	**Reimbursable Agreement** **Work by WSDOT to be REIMBURSED by OTHERS**
Maximum Amount Payable $89,417.46	Amount Reimbursable to WSDOT N/A
Management Reserve Fund (Funds setup when requested) N/A	Reciprocal Overhead Agreement Number (If applicable) N/A
Allowed Overrun Percent N/A	Allowed Overrun Percent N/a

Preparer's Signature	Date	Phone
George C. Humphrey	7/23/2009	360-816-8864

DOT Form 120-095 EF

Washington State Department of Transportation

Special Transportation Planning Study Agreement

Work by Planning Organization - Actual Cost

Organization and Address
METRO
600 Northeast Grand Avenue
Portland, OR 97232-2736

Agreement Number	Total Amount Authorized
GCA 5744	$552,159.63
Project Manager	**Agreement Expiration Date**
Doug Ficco	January 31, 2009

Project Title and Description
Columbia River Crossing Project

Participate in the EIS phase of the project in accordance with the attached scope and estimate.

This AGREEMENT, made and entered into this 1st day of November, 2007, between the STATE OF WASHINGTON, Department of Transportation, acting by and through the Secretary of Transportation, hereinafter called the "STATE," and the above named organization, hereinafter called the "PLANNING AGENCY."

WHEREAS, the STATE and the PLANNING AGENCY recognize the need for the transportation planning project, described above, and

WHEREAS, it is deemed in the best interest of the STATE to participate in funding said project for the mutual benefit of local and state roadway planning in the area of the project, and

WHEREAS, the STATE and the PLANNING AGENCY now wish to define responsibility for preparation of the transportation planning project.

NOW THEREFORE, it is mutually agreed as follows:

I
Scope of Work

The PLANNING AGENCY shall undertake the Transportation Planning Project described above, which shall include the tasks set forth in Exhibit "A," attached hereto.

II
Schedule

The project period shall commence upon execution of this agreement and shall last until the expiration date listed above.

III
Payment

The STATE agrees to reimburse the PLANNING AGENCY's actual direct and related indirect costs of the project. The maximum amount that the STATE shall reimburse the PLANNING AGENCY shall not exceed the "Total Amount Authorized" listed above. Payment by task shall be made as set forth in Exhibit "A." All costs must be consistent with the Federal cost principles contained in OMB Circular A-87.

The PLANNING AGENCY shall submit to the STATE requests for funds as they are expended on the project, but not to exceed one such request every month. Such requests for reimbursement shall document the amount of funds that have been expended during the period for the total project, as well as for the current billing period. The STATE shall review and approve each request for payment in an expeditious manner and shall make payment within 30 days after approval of the payment request.

IV
Reports

The PLANNING AGENCY shall, from time to time during the progress of the work, confer with the STATE. The PLANNING AGENCY shall prepare and present to the STATE an annual progress report. The report shall be completed and submitted to the STATE within 30 calendar days following the end of each fiscal year. The STATE however, reserves the right to request an interim report(s) during the fiscal year. The interim report(s) is due to the STATE within 21 calendar days of being notified in writing by the STATE. The interim report(s) shall include a summary of work progress during the course of the fiscal year, costs incurred in accordance with the approved scope of work and budget, and progress to date, including any problems or work delays. The STATE may delay reimbursement of billings if the requested interim report(s) is not submitted in a timely manner.

Within 30 days after the conclusion of each fiscal year, the PLANNING AGENCY shall prepare and submit to the STATE an annual progress report. This annual report shall summarize work accomplished under the scope of work, costs incurred by work element, and shall identify any carryover of funds.

A final report documenting the planning project, including interim and task reports which provide documentation of all technical data and their analysis, shall be prepared by the PLANNING AGENCY. The PLANNING AGENCY shall submit five copies of the final report to the STATE for acceptance. This requirement for a final report may be waived in writing by the STATE.

V
Modifications

Either party may request changes in these provisions. Such changes which are mutually agreed upon shall be incorporated as written amendments to this Agreement. No variation or alteration of the terms of this Agreement shall be valid unless made in writing and signed by authorized representatives of the parties hereto.

VI
Audits, Inspection, and Retention of Records

All project records in support of all costs incurred and actual expenditures kept by the PLANNING AGENCY are to be maintained in accordance with procedures prescribed by the Division of Municipal Corporations of the State Auditor's Office, the U.S. Department of Transportation, and the STATE.

The STATE, and any of its representatives, shall have full access to and the right to examine, during normal business hours and as often as they deem necessary, all of the PLANNING AGENCY's records with respect to all matters covered by this contract. Such representatives shall be permitted to audit, examine, and make excerpts or transcripts from such records and to make audits of all contracts, invoices, materials, payrolls, and other matters covered by this contract. All documents, papers accounting records, and other material pertaining to costs incurred in connection with the project shall be retained by the PLANNING AGENCY for three years after the STATE's written notice that the project is complete and the Agreement is terminated. Copies thereof shall be furnished if requested.

In accordance with OMB Circular A-128 regulations, the PLANNING AGENCY is required to arrange for audit of funds expended.

VII
Termination

If it is considered in the best interests of the STATE, the STATE may terminate this Agreement upon giving ten (10) days notice in writing to the PLANNING AGENCY. If this Agreement is so terminated prior to fulfillment of the terms stated herein, the PLANNING AGENCY shall be reimbursed only for actual expenses and noncancelable obligations, both direct and indirect, incurred to the date of termination.

VIII
Legal Relations

The PLANNING AGENCY shall comply with all Federal, State and Local Laws and Ordinances applicable to the work to be done under this Agreement.

Each party to this Agreement shall be responsible for damage to persons or property resulting from the negligence on the part of itself, its employees, its agents, or its officers. Neither party assumes any responsibility to the other party for the consequences of any act or omission of any person, firm, or corporation not a party to this Agreement.

IX
Subcontracting

The services of the PLANNING AGENCY are to be directed by the Project Manager identified above. The PLANNING AGENCY shall not assign, sublet, or transfer any of the work provided for under this Agreement without prior written approval from the STATE, and the STATE shall review and approve the PLANNING AGENCY's consultant agreement prior to execution. The PLANNING AGENCY shall comply with all Federal and State laws and regulations governing the selection and employment of consultants. The State reserves the right to appoint a representative to serve on the Consultant Selection Committee. Subcontracts greater than $10,000 must contain all the required provisions of this contract.

X
Travel

Any out-of-state travel must have prior written approval of the STATE to be eligible for reimbursement. Current STATE travel regulations and rates shall apply to all in-state and out-of-state travel for which reimbursement is claimed during the term of this Agreement.

XI
Liability

No liability shall attach to the STATE or the PLANNING AGENCY by reason of entering into this Agreement except as expressly provided herein.

XII
Independent Contractor

The PLANNING AGENCY shall be deemed an independent contractor for all purposes and the employees of the PLANNING AGENCY or any of its contractors, subcontractors, and the employees thereof, shall not in any manner be deemed to be employees of the STATE.

XIII
Equal Employment Opportunity

The PLANNING AGENCY agrees to abide by all State and Federal regulations with respect to employment. This includes, but is not limited to, equal opportunity employment, nondiscrimination assurances, project record keeping, audits, inspection, and retention of records and will adhere to all of the nondiscrimination provisions set forth in Exhibit "C" attached hereto.

XIV
Severability

If any covenant or provision in this Agreement shall be adjudged void, such adjudication shall not affect the validity, obligation, or performance of any other covenant or provision which in itself is valid, if such remainder would then continue to conform to the terms and requirements of applicable law and the intent of this contract.

XV
Equipment

All equipment to be purchased under this Agreement shall be listed in the scope of work. All equipment must be purchased, managed, and disposed of in accordance with OMB Circular A-102 Attachment N.

Exhibit C
Title 6, Civil Rights Act of 1964

During the performance of this Agreement, the Planning Agency, for itself, its assignees, and successors in interest, hereinafter referred to as the "Consultant," agree as follows:

1. Compliance With Regulations: The Consultant will comply with the Regulations of the Department of Transportation relative to nondiscrimination in Federally-assisted programs of the Department of Transportation Title 49, Code of Federal Regulations, Part 21, hereinafter referred and made a part of this Agreement.

2. Nondiscrimination: The Consultant, with regard to the work performed by it after award and prior to completion of the contract work, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Consultant will not participate either directly or indirectly in the discrimination prohibited by Section 8.4 of the Regulations, including employment practices when the contract covers a program set forth in Appendix A-11 of the Regulations.

3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the Consultant for work to be performed under a subcontract, including procurements of materials or equipment, each potential subcontractor or supplier shall be notified by the Consultant of the Consultant's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

4. Information and Reports: The Consultant will provide all information and reports required by the Regulations, or orders and instructions issued pursuant thereto, and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the State Transportation Department or the Federal Highway Administration to be pertinent to ascertain compliance with such regulations, orders, and instructions. Where any information required of the Consultant is in the exclusive possession of another who fails or refuses to furnish this information, the Consultant shall so certify to the State Transportation Department, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

5. Sanctions for Noncompliance: In the event of the Consultant's noncompliance with the nondiscrimination provisions of this contract, the State Transportation Department shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

   a. Withholding of payment to the Consultant under the contract until the consultant complies, and/or

   b. Cancellation, termination, or suspension of the contract, in whole or in part.

6. Incorporation of Provisions: The Consultant will include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, order, or instructions issued pursuant thereto. The consultant will take such action with respect to any subcontract or procurements as the State Transportation Department or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, however, that in the event the consultant becomes involved in, or is threatened with litigation with a subcontractor or supplier as a result of such direction, the consultant may request the State to enter into such litigation to protect the interest of the United States.

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT on the day and year last written below.

PLANNING AGENCY

By: _____

Title: COO

Date: 11/1/2007

STATE

By: _____

Douglas P. Ficco, Director
Columbia River Crossing Project

Date: 11/1/2007

COLUMBIA RIVER CROSSING ENVIRONMENTAL IMPACT STATEMENT
METRO TASKS STATEMENT OF WORK EXHIBIT "A"
November 1, 2007

PREFACE

The METRO tasks described below detail METRO's participation in the Columbia River Crossing (CRC) Project. It consists of seven primary areas of participation in and assistance to the project:

- Federal Transit Administration (FTA) liaison for NEPA and New Starts,
- Project review and decision-making as MPO for the Portland region,
- Travel demand forecasting,
- Review of land use forecasts, issues and assumptions,
- Day-to day Project committee support, and
- Congestion pricing and tolling technical review.

Although METRO anticipates participation in all the project tasks, the scope emphasizes extensive involvement in the project finance, FTA coordination, transportation planning and transit planning tasks. Depending on the task, METRO contributions will range from review and input, to assistance in developing products, to performing significant portions of the project's technical work program.

ASSUMPTIONS

- **METRO will serve as a Federal Transit Administration (FTA) liaison** and will coordinate activities relating to the National Environmental Policy Act (NEPA) and the New Starts Program. METRO is in a unique position to assist the Project with a seat on the FTA's New Starts Roundtable Steering Committee and APTAs New Starts Working Group. Close coordination between the Project and other Portland region New Starts projects is essential.
- **METRO will coordinate Project review and decision-making for the Portland region,** including the Joint Policy Advisory Committee on Transportation (JPACT), their Transportation Finance Committee and staff to JPACT, the Transportation Policy Alternatives Committee (TPAC).
- **METRO will coordinate review of land use forecasts, issues and assumptions** by the Portland region's Metro Policy Advisory Committee (MPAC) and their staff support the Metro Technical Advisory Committee (MTAC) and serve as co-lead with the Southwest Washington Regional Transportation Council (RTC) to coordinate Project reviews by the Bi-State Coordinating Committee.
- **METRO will review Project funding scenarios**, particularly with regard to the FTA New Starts process, Congressional funding requests and the regional prioritization of New Starts projects.

- **METRO will be involved with day-to day Project committee activities** including staffing the Project Development Team, as well as the Finance, Travel Demand Forecasting, Environmental, Design, Transit and other Working Groups as required.
- **METRO will provide travel demand forecasting services** for all project alternatives including coordinating data and methods with RTC, forecast year, assumptions, networks, methods and modeling software with the Southwest Washington Regional Transportation Council (RTC). In addition, METRO will use the SUMMIT model to assess transit system user benefits.
- **METRO will provide congestion pricing and tolling assistance** to Project staff and assist staff in the development of alternatives.

METRO WORK ELEMENTS

1.0 PROJECT MANAGEMENT

The purpose of this work element is to provide management and direction to the CONSULTANT team and support to CRC and STATE staff and review of their work over the course of the project.

1.1 Project Coordination Meetings

- METRO will participate in the project development team meetings to provide input and guidance to the project team, and will assist in development of submittals, identification of project issues, and development of solutions.
- METRO will assist and participate on an ongoing basis in project team coordination meetings with the Federal Transit Administration (FTA) and the Federal Highway Administration (FHWA) to ensure that the overall CRC project meets NEPA and New Starts requirements, and that the participation of FTA is coordinated with the region's overall New Starts agenda.
- METRO will provide staff support to the Regional Partners Group, the Project Sponsors Council and the Task Force as required.

1.2 Intergovernmental Agreements

- METRO will assist in reviewing transit related portions of the Stewardship Agreement between FHWA and FTA.

2.0 PROJECT CONTROLS

2.1 Schedule Management and Control

- METRO will provide timely input to CRC staff regarding Metro-led tasks to assist the project team in maintaining an accurate schedule.

2.2 Budget Management and Control

- METRO will provide timely notice to the CRC project team if METRO-led task budgets require adjustment.

2.3 Monthly Progress Reports

- METRO will provide monthly progress reports to the CRC project team to accompany invoices for reimbursement under this IGA.

2.4 Monthly Invoice

- METRO will provide monthly invoices to the CRC project team to ensure an accurate project accounting of cash-flow and budget. Monthly invoices shall include sufficient detail to show date, hours worked, hourly rate and dollar amount for each METRO employee.

3.0 FINANCIAL STRUCTURES

3.1 Discussion/Resolution of Policy-Level Issues

This task involves reviewing previously developed materials (managed lanes study, toll feasibility study, recently passed state legislation), reviewing the non-tollway alternatives developed to date, coordinating initial and follow-up meetings, developing strategy, and documenting the outcome of the overall approach to establishing tolling as an alternative and/or one or more tolled alternatives.

- METRO will participate and provide review regarding financial structures.
- METRO will assist in developing project methodologies, analysis approach and criteria in the discussion and resolution of policy issues.
- METRO will assist in the discussion and analysis of tolling and finance institutional structures and the identification of critical issues.
- METRO will coordinate the involvement of the JPACT Finance Subcommittee as appropriate.

3.2 Travel Demand and Revenue Forecasting

- METRO will provide and summarize travel demand forecasting model results from the initial EMME/2 based model runs used for component screening, including socio-economic inputs (i.e. review of the recent model development work which accommodates tolling).
- METRO will assist in the development and determination of preliminary toll rate structures for the travel demand model as a result of the policy discussions that occurred in Task 3.2.
- METRO will re-run travel demand forecasts and reiterate analysis of toll crossing, local arterial network, and parallel highways for use in analyzing the effect of tolling on travel demand and revenue projections.
- METRO will assist in the analysis of revenue forecast results.

3.3 Financial Feasibility Analysis

The Project Financial Feasibility Analysis will look at a variety of project configurations, operations alternatives and financing/funding mechanisms to identify the financial capacity of potential revenue streams and establish a financially feasible project.

- METRO will participate in this task, review work products and provide comments on the analysis prepared for the following subtasks:
    - Assessment of Revenue and Funding Options
    - Assessment of Financing Options.
    - Development of Illustrative Financial Plan(s)

    - Financial Feasibility Report
- METRO will also participate in and provide assistance with the following elements of this task:
    - The determination of funding mechanisms and the financial capacity of a financially feasible project.
    - Assistance in assembling a combination of project configuration, tolling approach, capital costs, operating costs, and other elements that are consistent with public policy objectives.
    - Assessment of revenue and funding options.
- METRO will coordinate the work of the CRC with that of the JPACT Finance Subcommittee as appropriate.

3.4 Implementation Strategies for Funding and Financing

The purpose of this task is to detail the steps, procedures and timetables to implement selected Finance Plans.

- METRO will assist in reviewing and providing input and guidance in the development of the Funding, Financing and Institutional Strategies Recommendations Report and in framing Legislative Packages for federal, Oregon, and local jurisdictions.
- METRO will provide comment on the following task products:
    - *Funding, Financing and Institutional Strategies Recommendations Report*
    - Provide guidance on legislative packages needed at federal, state and local levels
    - Provide tolling recommendations, including whether to toll I-205
    - Legislative Packages for Federal, Washington, Oregon, and Local Jurisdictions
    - Project folio(s) addressing major issues, including economic benefits of the corridor
    - Information packages with executive summary explanation of need for legislation, legislation elements required and consequences of not obtaining legislative clearance
- METRO will coordinate the work of this task with the JPACT Finance Subcommittee as appropriate.

4.0 COMMUNICATIONS

The purpose of this task is to provide timely and accurate information to stakeholders and the general public in Oregon and Washington to engage their interest, enhance their understanding, and gain their support for the project development process. METRO will participate in the work groups listed below and others as they are formed. It is assumed that work groups will be formed and dissolved as needed.

4.1 Communications Working Group

- METRO will participate and coordinate with other METRO communications and public involvement as needed.

4.2 Information Dissemination

- METRO will assist the Project Team and participate in the dissemination of project information. This will include community events and speakers bureau.

- METRO will provide technical expertise and regional knowledge at the events for the public and stakeholders as required.
- METRO will assist and be involved in any contacts with METRO Councilors and will provide direction to the project team for these activities on the strategy and approach regarding sensitivity to regional issues and facilitation of project support.
- METRO will assist in the identification of key stakeholders, particularly those involved with transportation and community issues in the Portland region.

4.3 Public Involvement

- METRO will assist the Project Team and participate in outreach for the public involvement process. These will include staff participation in open houses/workshops, and special issue workshops as needed.
- METRO will provide technical expertise and regional knowledge at the events for the public and stakeholders.

5.0 TRANSPORTATION PLANNING

The purpose of this task is to advance the Columbia River Crossing LPA and the New Starts submittal. Major elements of this task are the development of transportation analysis of baseline and build alternatives, and support for other tasks.

METRO will provide a wide range of assistance for the sub elements in Task 5 which are described below.

5.1 Develop Study Parameters

- METRO will be a key participant in the work groups involved in the development of the study parameters including the Transportation Planning/Traffic Operations team, the Modeling Working Group, and the Transit/Travel Forecasting Working Group to develop travel demand and traffic operations methodologies.
- METRO will compile and code highway network information for 2005 and 2035 analysis years.
- METRO will act as lead agency for the Portland region in developing the land use allocations and will also collaborate with RTC for a bi-state regional land use allocation to be used for project analyses.
- METRO will define and develop an approach for the analysis of changes in land use allocation due to major capacity expansion or tolling in the corridor. This will involve collaboration and discussion with local partner agencies.
- METRO will work with the project team and the Travel Forecasting Working Group to develop the travel demand and traffic operations methodologies, and transportation analysis approach and will review and assist in summarizing the travel demand modeling processes and input assumptions.

5.2 Baseline Transportation Analyses

- METRO will act as lead for the Portland region to develop and conduct the transportation analyses of existing conditions and for the future year No Build condition. (2030 for Transit, 2035 for Highway). METRO's participation in subtasks is outlined below:

5.2.1 Develop Functional Description Report of Existing and Future No Build Conditions

- METRO will provide 2030 No-Build highway and transit networks for use by the CRC project team in the following sub-tasks:
    - Develop consensus on one future year No Build alternative.
    - Document future year No Build alternative description.
    - Develop functional description report documenting highway and transit networks to be modeled.

5.2.2 2005 and Future Year No-Build (2030Transit, 2035 Highway) Travel Demand Forecasting

- METRO will perform key analyses required to adapt the current travel demand forecasting models to the types of analyses required for the CRC project.
- METRO will perform travel demand forecasting for the 2005 and 2030 No-Build Alternative.

5.3 Travel Demand Forecasting (2030 Transit, 2035 for highway)

- METRO will perform travel demand forecasting for LPA and New Starts Alternatives and Design Options that includes the following sub-tasks:
    - Preparation of forecasts including network coding, network review, development of model inputs, execution of the demand model, and assignment of travel demand to the networks.
    - Preparation of data for micro-simulations (VISSIM) to be performed by the CRC project team.
    - METRO will run SUMMIT as needed.
    - METRO will run air quality analyses as needed.

5.4 Traffic Support for Design Engineering

- METRO will assist as needed on traffic support for other elements and will provide review and input to the project team on traffic support for design engineering, financial structures, environmental and other tasks.

6.0 ENVIRONMENTAL

- METRO's primary participation under Task 6 will be through input and review on the Project Development Team.

6.1 Agency Coordination and Regulatory Compliance Strategy

- METRO will participate and contribute to the CRC InterCep process developed for the permitting agencies.

6.2 NEPA Public Involvement Support

- METRO will participate in public involvement support through Task 3.

6.3 NEPA/SEPA (Tribal) Scoping

- METRO will provide input, review and regional coordination with Tribal Governments during the permitting process.

6.4 Noise, Vibration and Air Quality

- METRO will provide input, review and coordination with CRC staff through the PDT on noise, vibration and air quality.

7.0 TRANSIT PLANNING AND ENGINEERING

The purpose of this task is to advance the Columbia River Crossing multi-modal transit alternatives the Draft Environmental Impact Statement (DEIS) and the FTA New Starts process.

7.1 FTA New Starts Submittals

- METRO will act as FTA New Starts liaison for the project, along with TriMet.
- METRO, along with TriMet will facilitate the timely transfer of information regarding the New Starts program from regular contacts with FTA that include New Starts Roundtable Steering Committee, Quarterly Meetings, New Starts Roundtables and various activities associated with the annual New Starts ranking process, and development of rules and guidance for the program.
- METRO will provide quality control for the New Starts submittal(s).
- METRO will also provide and assistance on other required submittals including the initial, detailed, and final definition of alternatives, the FTA Alternatives Analysis Initiation Package, and required descriptions of methodologies.

7.2 Transit Service Planning and Analysis

- METRO will assist in the development of the range of transit components, including the New Starts Baseline Alternative and Build Alternatives.
- METRO will work with the CRC project team to develop the transit networks for the transit alternatives and will code the networks for input into the travel demand forecasting models.
- METRO will collaborate with RTC to prepare transit networks for the Clark County part of the study area.
- METRO will prepare the travel demand forecasting methodology to be used for the New Starts Report and will coordinate the review of the methodology with the FTA.
- METRO and the CRC Project team will prepare and run the SUMMIT model as required by the FTA New Starts process to prepare cost-effectiveness measures as needed.
- METRO will provide data from travel demand forecasts and subsequent SUMMIT model runs and cost-effectiveness analyses to facilitate the evaluation of alternatives with regard to FTA New Starts criteria.

7.3 Transit Conceptual Engineering

- METRO will provide review and input on the transit alternative designs and refinement and the identification of issues to be addressed.
- METRO will provide review and input on the transit engineering work including capital costs and assumptions through the Project Development Team.

7.4 Alternative Screening

- METRO will assist in the screening of alternatives to advance into the DEIS, based on the criteria developed in Tasks 5.3 and 7.3.
- METRO will provide data from travel demand forecasts and subsequent SUMMIT model runs and cost-effectiveness analyses to facilitate the evaluation of alternatives with regard to FTA New Starts criteria.

7.5 Reports and Technical Memorandums

- METRO will provide review and input on all technical reports and memorandums for Task 7 and will work with CRC project staff to resolve any issues.

8.0 HIGHWAY PLANNING/ENGINEERING

The purpose of this work element is to complete the highway planning/engineering tasks through for the DEIS. Highway work elements will satisfy the requirements of the FHWA, FTA, and WSDOT/ODOT guidelines. METRO will provide input and review in Task 8 as needed.

8.1 Conceptual Alternative Plan Screening

- METRO will review and provide input on the conceptual alternative plan development task applying local and regional knowledge to provide feedback on elements to include highway, fixed guideway and structures.

8.2 Conceptual Alternative Plan Screening

- METRO will provide input and review on conceptual costs estimates applying local and regional knowledge to provide feedback.

8.3 Other Engineering Support

- METRO will review and provide input on other engineering elements as needed through the PDT and other work groups.

		TASK TOTAL	TRANSPORTATION IMPLEMENTATION							
			Brandman	Roberts	Mendoza	Turpel	Bihn	Wieghart	Platman	Cotugno
1.0	Project Management	378	122	122	61	61				12.2
2.0	Project Controls	9			7					2
3.0	Financial Structures	292	120	120	40					12
4.0	Communications	32	20	10						2
5.0	Transportation Planning	850	50	110	540		85	40	20	5
6.0	Environmental	83	1	8	15	60				0
7.0	Transit Planning and Engineering	112	20	30	60					2
8.0	Highway Planning and Engineering									
9.0	Implementation Plan									
	Total	**1,757**	**333**	**400**	**723**	**121**	**85**	**40**	**20**	**35**
	FTE (Annualized)	**0.72**	**0.14**	**0.16**	**0.30**	**0.05**	**0.04**	**0.02**	**0.01**	**0.01**

Division Totals	Hours	**1,757**
	FTE	**0.72**

		TASK TOTAL	ADMINISTRATION	
			Management Analysts (Blackledge, Byers, Mooo)	Administration (Tuerk, Sale, Blackhorse, Newell)
1.0	Project Management			
2.0	Project Controls	50	42	8
3.0	Financial Structures			
4.0	Communications			
5.0	Transportation Planning			
6.0	Environmental			
7.0	Transit Planning and Engineering			
8.0	Highway Planning and Engineering			
9.0	Implementation Plan			
	Total	**50**	**42**	**8**
	FTE (Annualized)	**0.02**	**0.02**	**0.00**

Division Totals	Hours	**50**
	FTE	**0.02**

		TASK TOTAL	TRAVEL FORECASTING							PUB AFFRS
			Walker	Bosa	Kim	Hansen	Pederson	Yee	Higgins	Withrow
1.0	Project Management									
2.0	Project Controls	15	15							
3.0	Financial Structures	25	10						15	
4.0	Communications	30								30
5.0	Transportation Planning	4,170	125	2,415	10	5	5	15	1,595	
6.0	Environmental									
7.0	Transit Planning and Engineering	40	40							
8.0	Highway Planning and Engineering									
9.0	Implementation Plan									
	Total	**4,280**	**190**	**2,415**	**10**	**5**	**5**	**15**	**1,610**	**30**
	FTE (Annualized)	**0.68**	**0.08**	**1.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.66**	**0.01**

Division Totals	Hours	**4,280**
	FTE	**1.76**

IGA Cost Summary

Task	Title	Cost
1.0	Project Management (Labor)	$ 45,381.44
2.0	Project Controls (Labor)	$ 5,635.35
2.0	*Project Controls (M&S)*	$ *201.06*
3.0	Financial Structures (Labor)	$ 39,827.68
4.0	Communications (Labor)	$ 9,045.68
5.0	Transportation Planning (Labor)	$ 418,925.00
6.0	Environmental (Labor)	$ 13,785.85
7.0	Transit Planning and Engineering (Labor)	$ 19,357.58
8.0	Highway Planning and Engineering (Labor)	$ -
9.0	Implementation Plan (Labor)	$ -
	TOTAL	**$ 552,159.63**