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INTERLOCAL COOPERATION AGREEMENT  
for  
DESIGN, IMPLEMENTATION, OPERATION AND MAINTENANCE  
of the  
REGIONAL FARE COORDINATION SYSTEM

February 2003

**Interlocal Cooperation Agreement for Design, Implementation, Operation  
and Maintenance of the Regional Fare Coordination System**

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**INTERLOCAL COOPERATION AGREEMENT**  
**for**  
**DESIGN, IMPLEMENTATION, OPERATION AND MAINTENANCE**  
**of the**  
**REGIONAL FARE COORDINATION SYSTEM**

This Interlocal Cooperation Agreement for design, implementation, operation and maintenance of the Regional Fare Coordination System is entered into this \_\_\_\_ day of \_\_\_\_\_, 200\_\_, by the Snohomish County Public Transportation Benefit Area ("Community Transit"), the Kitsap County Public Transportation Benefit Area ("Kitsap Transit"), the Central Puget Sound Regional Transit Authority ("Sound Transit"), the State of Washington, acting through the Washington State Department of Transportation, Washington State Ferries Division ("Washington State Ferries"), the Pierce County Public Transportation Benefit Area ("Pierce Transit"), and King County ("King County"), individually referred to as an "Agency" and collectively known as "the Agencies" in this Agreement.

**RECITALS**

The Agencies provide public transportation services within their service areas and as part of such services, collect fares from riders.

Pursuant to the Interlocal Cooperation Act, chapter 39.34 RCW, the Agencies desire to jointly exercise their powers to better coordinate their respective services and fare payment systems in order to improve the availability, reliability and convenience of public transportation services within their service areas and throughout the region served by the Agencies.

The Agencies desire to implement a Regional Fare Coordination ("RFC") System to establish a common, non-cash fare system throughout their service areas.

The Agencies previously entered into an agreement dated September 30, 2000, which established the necessary framework to regionally procure a RFC System.

Pursuant to such agreement, the Agencies jointly conducted a procurement process and selected the Contractor to design, implement, operate and maintain the RFC System.

The purpose of this Agreement is to establish the respective roles and responsibilities of the Agencies in the design, implementation, operation and maintenance of the RFC System and in the administration of the RFC Contract with the Contractor and joint consultant contracts.

NOW, THEREFORE, in consideration of the following terms and conditions and other valuable consideration, the sufficiency of which is hereby acknowledged, the Agencies agree as follows:

## TERMS AND CONDITIONS

### I. DEFINITIONS

The following definitions shall apply under this Agreement unless the context requires otherwise or another definition is expressly provided in this Agreement.

- A. "Administrative/Project Management Fee" means the fees paid by the Agencies to King County to cover the actual labor, material, overhead and other costs of the Project Team, as well as the fees paid by the Agencies to the Fiscal Agent to cover its actual labor, material, overhead and other costs incurred in providing services as a Fiscal Agent under this Agreement.
- B. "Agency" means each of the public transportation agencies that is a party to this Agreement.
- C. "Agency Site Manager" means each Agency's representative on the Project Team who is designated as the Site Manager for the Agency.
- D. "Claim Account" means an account which will serve as the central repository for e-purse transaction funds for which data were lost after a certain period of time.
- E. "Contract Administrator" means the King County employee responsible for the day-to-day administration of the RFC Contract, Joint Consultant contracts, and the combined Agency activities related to the RFC System.
- F. "Contractor" means the entity with which the Agencies have entered into the RFC Contract for the design, implementation, operation and maintenance of the RFC System.
- G. "Day" means a calendar day unless otherwise expressly provided.
- H. "Electronic Commerce Transactions" means credit card, debit card, automatic account deductions and other electronic payment mechanisms used to purchase cards and load value.
- I. "Escrow Agreement" means the agreement identifying the terms of the escrow services.
- J. "Federal Grant" means any financial assistance received from the Federal Transit Administration, including that provided under its Section 9, Congestion



Mitigation and Air Quality Improvement (CMAQ) and Intelligent Transportation System (ITS) programs.

- K. "Fiscal agent" means the Agency designated in this Agreement to provide accounting services for the special funds for the RFC Project and manage bank accounts for the RFC System. Unless otherwise agreed by the Joint Board, Sound Transit shall serve as the Fiscal Agent under this Agreement.
- L. "Float/E-purse Account" means the account that will serve as the central repository for e-purse revenue.
- M. "Institutional Account" means an entity other than an individual customer, including, but not limited to, an employer, educational institution, or social service agency, that purchases RFCS Cards from an Agency according to the terms of a negotiated agreement.
- N. "Joint Board" means the Joint Board established by Section III of this Agreement.
- O. "Joint Consultant" means any legal, financial, technical and other consultant retained by the Agencies to provide services on the RFC Project.
- P. "Project Administration" means the activities of the Project Team to administer the RFC Contract, Joint Consultant contracts, and the combined Agency activities related to the RFC System.
- Q. "Project Team" means the Contract Administrator and other positions provided in this Agreement or established by the Joint Board.
- R. "Regional Service Fee" means the fee charged by an Agency to cover its actual labor, material, overhead and other costs incurred in providing system operating support services to other agencies under this Agreement.
- S. "Retail Revalue Site" means a physical location at a retail establishment under contract with an Agency where a customer can go to add stored value and/or a fixed period pass to an existing smart card.
- T. "RFC Contract" means the contract between the Contractor and the Agencies under which the Contractor shall design, implement, operate and maintain the RFC System.
- U. "RFC Project" means the RFC Contract, Joint Consultant contracts, and the combined Agency activities related to the RFC System.
- V. "RFC Project Budget" means the amount to pay: for products and services by the Contractor and Joint Consultants; for Project Administration activities; for Administrative/Project Management Fees; for any Regional Service fees charged

by Agencies for the provision of services to other Agencies; and for contingency and other shared costs of the Agencies on the RFC Project.

- W. "RFC System" or RFCS means the Regional Fare Coordination System.
- X. "RFCS Card" means a smart card issued to a customer by an Agency on behalf of the Agencies for use in the RFCS.
- Y. "SC Central Payments Account" means the smart card central payments account maintained by the Fiscal Agent on behalf of the Agencies for the collection of individual agency funds and subsequent transmission of payments to the Contractor and Joint Consultants on behalf of the Agencies.

## **II. INDIVIDUAL AGENCY RESPONSIBILITIES**

A. Each Agency shall take the following actions consistent with the provisions of this Agreement, except as otherwise provided in the description of the action:

1. Designate an Agency Site Manager, or agree to have another Agency provide Site Manager services and reimburse that Agency for such services.
2. Review Contractor and Consultant deliverables and provide accurate, and complete comments, as required, in the time frames prescribed in Exhibit B.
3. Establish bank accounts, including "Zero Balance Accounts", to facilitate cash and Electronic Commerce Transactions and receiving and distributing funds, and provide authorization to banks for the Contractor to direct the movement of funds among the Agency's accounts for the purposes of fare reconciliation.
4. Direct banks to honor directions issued by the Contractor to collect and distribute funds to and from such bank accounts.
5. Establish merchant agreements with banks for acceptance and processing of Electronic Commerce Transactions.
6. Designate Agency personnel who are authorized RFC System users to ensure data are protected.
7. Designate Agency personnel who will have access to RFC System security keys.
8. Pay the Regional Service Fee to an Agency that performs functions on behalf of all Agencies pursuant to Section IX of this Agreement.

9. Maintain all RFC System equipment and hardware on vehicles and in facilities, to the extent required of each Agency in the RFC Contract.
10. If applicable, provide and maintain phone and other communication lines connecting RFC System locations, including, but not limited to Agency facilities as necessary for data transmittal. If such lines are determined by the Joint Board to benefit more than a single Agency, the costs of such lines shall be shared by all Agencies, as assessed by the Joint Board.
11. If applicable, market public transportation and establish contractual relationships with Institutional Accounts.
12. If applicable, establish and maintain contractual relationships with Retail Revalue Sites, including, but not limited to, facilitating the Contractor's provision of equipment (e.g., card readers/writers) to such sites and acting as a liaison, when necessary, between the retailer and the Contractor. Unless otherwise agreed to by the Joint Board, a uniform Retail Revalue Site agreement shall be used by each Agency.
13. Monitor the performance of the Contractor, and immediately report performance issues to the Contract Administrator for action. If an Agency is not satisfied with the action of the Contract Administrator, the Agency may submit the issues to the Joint Board for resolution. The Agency shall abide by the decision of the Joint Board.
14. To the extent allowed by Washington State law, protect from unauthorized disclosure all data and reports related to the RFC System, including data related to usage of specific cards, and immediately report all requests for such data and reports to the Contract Administrator and Joint Board, prior to releasing such data and reports.
15. Provide notice to the Contract Administrator no less than thirty (30) days prior to the effective date of any changes in fares. Said notice shall be in writing and shall be accompanied by a written report of the possible effects of such changes on the RFC System.
16. Provide to the Contract Administrator all information relating to, and take all actions required for, the administration and enforcement of warranties on all equipment, hardware and software.
17. Maintain equipment warranty and repair records and provide periodic reports to the Contract Administrator for the purpose of monitoring overall system and component reliability.

18. Train, or provide for training, of Agency personnel on operation and maintenance of the RFC System. Each Agency will attempt to establish training programs that are consistent in content with those of other Agencies.
19. Allow the Contractor to access Agency equipment and facilities for the performance of development, installation, operation and maintenance functions under the RFC Contract.
20. Provide information to the public on the benefits and uses of the RFC System to promote use of the RFC System. Each Agency will attempt to provide information that is consistent with that provided by other Agencies.
21. Enter into cardholder agreements with, and provide informational materials to, users of the RFC System. Each Agency shall use the uniform cardholder agreement and informational materials that have been authorized by the Joint Board and are consistent with the terms of Exhibit D.
22. Participate in fixed or periodic meetings with the Contractor, the Contract Administrator, representatives of other Agencies, and any combination of such parties.
23. Provide the Contract Administrator with a minimum of 30 days notice of needs for additional equipment, hardware, software and any changes in the RFC System.
24. If applicable, suggest modifications to the RFC System by submitting a written report to the Contract Administrator and Joint Board. The report should identify the suggested modification, the anticipated outcomes from the modification, the estimated cost of the modification, the impacts of the modification on other Agencies, and all other information related to the suggested modification. No modification shall be approved except by the change order or amendment process set out in the RFC Contract and this Agreement.
25. Except as otherwise specified, be merchant of record and accept the risk of loss regarding cash, check, and Electronic Commerce Transactions.
26. If applicable, issue RFCS Cards and/or perform stored value and pass revalue functions for RFCS customers on behalf of all of the Agencies in accordance with the uniform cardholder agreement.
27. Assist in the development of the RFCS Project rollout plan, as described in Exhibit A.

28. Assist in the development of uniform agreements to be used for the RFCS Project, including the cardholder agreement, Institutional Account agreements and third party retailer agreements, as described in Exhibit A.
  29. Conduct required audits in accordance with generally accepted auditing standards and/or audit procedures and guidelines of the Agency.
- B. The Agencies have additional responsibilities that are set forth in the RFC Contract. The Agencies shall apprise themselves of the terms and conditions of the RFC Contract and take all necessary and appropriate actions to fulfill all responsibilities, whether described in this Agreement or in the RFC Contract. In the event that the Agency believes that there is a conflict between responsibilities described in this Agreement and those in the RFC Contract, the Agency shall bring said conflict to the attention of the Contract Administrator, who shall make a decision regarding resolution of the conflict. In the event that the Agency disagrees with the Contract Administrator's determination, the matter shall be referred to the Joint Board for resolution. The Agency shall abide by the decision of the Joint Board.

### **III. JOINT BOARD**

- A. By executing this Agreement, the Agencies hereby create a Joint Board, which shall function as a joint board pursuant to chapter 39.34 RCW. The Joint Board shall oversee project and contract administration of the RFC Project, including the RFC Contract and Joint Consultant contracts, as provided in this Agreement. The Joint Board shall act on behalf of all Agencies and as may be in the best interests of the RFC Project.
- B. Membership on the Joint Board shall consist of the following officials from each Agency, which representative shall be authorized to take actions within the scope of this Agreement: King County's Transit General Manager; Community Transit's Chief Executive Officer; Sound Transit's Executive Director; Kitsap Transit's Executive Director; Pierce Transit's Chief Executive Officer; and Washington State Ferries' Chief Executive Officer. In addition, an Agency may select an alternate representative to participate on the Joint Board during the absence or inability of the representative to participate. A quorum for a meeting of the Joint Board shall be a majority of the representatives of the Agencies.
- C. The Joint Board shall establish procedures for the operations and meetings of the Joint Board, including the election of a chair, vice chair, and other positions deemed necessary by the Joint Board. The terms of office of the chair and other positions shall be determined by the Joint Board. The vice chair shall serve as acting chair if the chair is absent or otherwise unavailable. Each Joint Board representative shall be entitled to one vote. Voting by proxy may be permitted according to procedures adopted by the Joint Board.

- D. The Joint Board shall make decisions on all matters related to the RFC Project except those decisions that are (1) delegated to the Contract Administrator under this Agreement or by subsequent action of the Board or (2) require action by the governing boards of the Agencies.
- E. The Agencies agree that the following decisions do not require further action by their respective governing boards and shall be made by the Joint Board without delegation to the Contract Administrator:
1. Issue a Notice of Apparent Completion (NAC) of the following RFC Contract Deliverables and/or Milestones:
    - a. Project Schedule
    - b. Final Design
    - c. Factory Acceptance Testing
    - d. System Integration Testing
    - e. BETA Test Readiness
    - f. BETA Test Acceptance
    - g. Complete System Commissioning
    - h. Complete Operator Training
    - i. Full System Acceptance.
  2. Approve award and termination of Joint Consultant contracts provided the RFC Project Budget is not exceeded.
  3. Approve the RFC Project Budget, and all amendments to the RFC Project Budget, subject to the capital amounts committed by each Agency as set forth in Exhibit C, RFC Project Budget Estimated Expense and Grant Revenues, and future appropriations for operations and maintenance.
  4. Approve amendments to the Project Team Plan in Exhibit A.
  5. Approve amendments to the Contract Administration Plan in Exhibit B.
  6. Approve amendments to the Finance Plan in Exhibit C, including amendments to the respective Agency payment percentage shares for operation and maintenance.

7. Approve amendments to the Invoice Payment Process in Exhibit C.
8. Approve amendments to the Fare Collection and Customer Service Practices in Exhibit D.
9. Approve RFC Contract change orders outside the scope of authority of the Contract Administrator, as set forth in Exhibit B, Section D.3, provided the RFC Project Budget is not exceeded.
10. Approve Joint Consultant contract change orders outside the scope of authority of the Contract Administrator, as set forth in Exhibit B, Section G.1, provided the RFC Project Budget is not exceeded.
11. Approve RFC Project decisions, other than change order approvals, that, if implemented, would cause a financial impact of \$50,000 or more.
12. Consent to an Agency entering into a contract with the Contractor for a specialized application.
13. Approve the RFC Project rollout plan developed by the Project Team.
14. Approve uniform agreements developed by the Project Team, including the cardholder agreement, Institutional Account agreements and third party retailer agreements. If approved by the Joint Board, Institutional and third party retailer agreements may accommodate Agency-specific provisions as required by business needs of an Agency.
15. Approve the use of additional applications on RFCS Cards issued by the Agencies and/or the use of the RFCS application on cards issued by the Contractor or by a third party. No Agency is authorized to perform either of the activities set forth in this Section III.E (15) without prior approval of the Joint Board.
16. Approve the addition of new parties to this Agreement and the terms and conditions for such addition.
17. Approve the terms and conditions for an Agency's withdrawal from this Agreement.
18. Approve the selection of the Contract Administrator and conduct annual performance reviews.
19. Approve amendments to Section III.F. which would allow additional Joint Board decisions to be made by majority, rather than unanimous, vote.

- F. The Joint Board shall attempt to reach consensus agreement on the decision before it. If consensus is not achieved, the Joint Board shall make the decision by voting with each Agency having one vote. Decisions by the Joint Board shall require a unanimous vote of all Agencies for approval, unless identified in this Agreement as subject to simple majority vote approval. The following decisions are subject to majority vote: 1) termination/replacement of the Contract Administrator in accordance with Section IV.E; and 2) approval of Change Orders with a value greater than \$50,000, but not exceeding \$100,000, providing the amount approved does not exceed the RFC Project Budget. Decisions and actions by the Joint Board shall be memorialized in writing and signed by the chair of the Joint Board. A copy of each decision and action shall be distributed to each representative and alternate representative within five days of the decision or action.
- G. The Joint Board may create one or more committees or advisory groups to consider and advise on issues and matters deemed appropriate by the Joint Board. Committees and advisory groups will not have any decision-making authority on the RFC Project. The Joint Board may invite third parties to participate in such committees or advisory groups if specialized expertise or knowledge would help the committee or advisory group achieve its goal.

#### **IV. PROJECT TEAM**

- A. The Project Team for design and implementation of the RFC System shall consist of the Contract Administrator, IS/Technical Manager, Budget and Contract Control Manager, Agency Site Managers, and a Project Assistant. The duties and responsibilities of the members of the Project Team are set forth in the Project Team Plan in Exhibit A to this Agreement, which exhibit is incorporated by this reference as though fully set forth herein. The positions on the Project Team, other than Contract Administrator, may be revised by the Joint Board as deemed appropriate for operation and maintenance of the RFC System.
- B. The Contract Administrator, who shall be nominated by King County and approved by the Joint Board, shall report to the Joint Board and have day-to-day responsibility for managing the IS/Technical Manager, Budget and Contract Control Manager and Project Assistant on behalf of and at the direction of the Joint Board. The Contract Administrator shall neither be King County's representative on the Joint Board nor its Agency Site Manager. The Contract Administrator shall be the agent of the Agencies for purposes of managing the RFC Contract and contracts with Joint Consultants.
- C. The Contract Administrator is empowered to make decisions for the Agencies required during the management of the Project Team or the administration of the RFC Contract and Joint Consultant contracts, except those decisions identified in



this Agreement that shall be made by the Joint Board or decisions that require action by the governing boards of the Agencies.

- D. The Contract Administrator must report monthly to the Joint Board on the status of the RFC Project including, but not limited to, project schedule, payments, budget, etc. The Contract Administrator is encouraged to seek expert input from Agency Site Managers or other employees where applicable.
- E. If the Joint Board determines, for whatever reason, that the RFC Project requires a different Contract Administrator, the Joint Board shall notify King County of such request for removal which shall be subject to the limits and requirements of any applicable collective bargaining agreement and King County Code provisions. Subject to such limits and requirements, King County shall then nominate a new Contract Administrator who shall be subject to approval of the Joint Board.
- F. The Contract Administrator shall select the other members of the Project Team, except the Agency Site Managers who shall be selected by each Agency. Except for the Agency Site Managers, the members of the Project Team shall act on behalf of and at the direction of the Joint Board through the Contract Administrator. The Joint Board shall not be the employer of the Contract Administrator and other members of the Project Team. The Contract Administrator and each member of the Project Team shall serve under the employment terms and conditions established by King County.
- G. On a quarterly basis each Agency shall pay its share, according to the percentage shares set forth in this Agreement, of the Project Team costs, except the costs associated with the Agency Site Managers. Each Agency shall pay all costs associated with its Agency Site Manager and all other personnel it assigns to participate on the RFC Project. Costs related to the Contract Administrator, IS/Technical Manager, Budget and Contract Control Manager, and Project Assistant shall be considered costs of the Agencies to be included in the RFC Project Budget.
- H. The Project Team will be dissolved after full system acceptance of the RFC System as determined by the Joint Board. The Agencies understand that the ongoing operation and maintenance of the RFC System will require support staff. The Joint Board will determine the appropriate number, duration, responsibilities and title(s) of required support staff prior to full system acceptance.

## **V. CONTRACT EXECUTION AND ADMINISTRATION**

- A. A duly authorized representative of each Agency shall sign the RFC Contract with the Contractor and contracts with each Joint Consultant. Said contracts shall provide that no Agency shall have a greater percentage share of any

liability to the contractors under the contracts than as expressly set forth in an Exhibit to said contract. Each Agency hereby agrees to defend, indemnify and hold King County harmless, in its capacity as an individual Agency, for any costs that may be subsequently disallowed for grant reimbursement due to any differences between King County's procurement process and such Agency's process or the requirements of any federal or state agency making a grant that is utilized in the RFC Project.

B. The Agencies agree it is essential to have streamlined efficient processes and procedures for administering contracts with the Contractor and the Joint Consultants. To that end, the Agencies agree to the Contract Administration Plan set forth in Exhibit B to this Agreement.

C. RFC specialized applications are applications that benefit one or more Agencies but are not integral to the RFC System, as determined by the Joint Board.

An Agency seeking to develop specialized applications shall enter into individual contracts with the Contractor as necessary and be solely responsible for paying the costs of such contracts. At least thirty (30) days prior to entering into such contracts, the Agency shall provide a copy of each proposed contract to the Joint Board and demonstrate to the satisfaction of the Joint Board that entering into each contract will not add cost to the other Agencies and will not delay or interfere with the RFC Project.

D. Each Agency shall defend, indemnify and hold harmless the other Agencies from all claims of any kind and for all costs incurred (including attorneys' fees) as a result of the Agency entering into such individual contracts with the Contractor.

E. The Agencies agree that any consultant contracts they executed for work during prior phases of the RFC Project (herein referred to as "Joint Consultant contracts") may be extended and new tasks added, subject to limits set forth in Exhibit C and applicable procurement policies and requirements. If the Agencies desire to procure new Joint Consultant contracts to assist them on the RFC Project, each Agency shall designate one representative to participate in the deliberations led by the Contract Administrator for selection of such consultants.

F. Upon such approval as may be necessary by their respective governing boards, the Agencies shall each sign Joint Consultant contracts.

G. The roles of the Contract Administrator and each Agency's Site Manager in administering a Joint Consultant contract are specified in the Contract Administration Plan included as Exhibit B to this Agreement.

H. Each Agency may sign and administer individual consultant contracts with any consultants to perform any tasks unique to each Agency that are not covered by Joint Consultant contracts. An Agency entering into individual consultant

contracts shall be solely responsible for paying the costs of such contracts. At least thirty (30) days prior to entering into such consultant contracts, the Agency shall provide a copy of each proposed contract to the Joint Board and demonstrate to the satisfaction of the Joint Board that entering into each contract will not add cost to the other Agencies and will not delay or interfere with the completion of the RFC Project.

- I. To the extent an Agency enters into such an individual consultant contract by using the procurement process conducted for Joint Consultant contracts, such Agency thereby accepts King County's competitive selection process for the purpose of entering into its own contract and hereby agrees to defend, indemnify and hold King County harmless against any and all claims, liabilities or costs of any kind or nature which arise out of or are related to the consultant selection process or any individual contracts with the consultants. As to such individual consultant contracts, no Agency shall be required to use the procurement process conducted for Joint Consultant contracts.
- J. Each Agency shall defend, indemnify and hold harmless the other Agencies from all claims of any kind and for all costs incurred (including attorneys' fees) as a result of the Agency entering into such individual consultant contracts.

## **VI. FINANCIAL PROVISIONS**

- A. The Contract Administrator shall prepare a RFC Project Budget that includes the amount to pay for: products and services by the Contractor and Joint Consultants; Project Administration activities; Administrative/Project Management Fees; Regional Service fees charged by Agencies for the provision of services to other Agencies; and for contingency and other shared costs of the Agencies on the RFC Project. The Joint Board shall determine the form, duration and level of detail for the RFC Project Budget. The RFC Project Budget, and all amendments to the RFC Project Budget, shall be subject to approval by the Joint Board and subject to the capital amounts committed by each Agency as set forth in Exhibit C, RFC Project Budget Estimated Expense and Grant Revenues, and future appropriations for operations and maintenance. The Joint Board shall notify the Agencies of the approved RFC Project Budget and each proposed amendment to the RFC Project Budget.
- B. By entering into this Agreement, each Agency agrees to pay the RFC Project costs, as allocated and described in the RFC Finance Plan which is attached hereto as Exhibit C. The purpose of the Finance Plan is to summarize the regionally shared and individual Agency costs, revenues, cost sharing assumptions, payment schedules and finance-related administrative procedures to be utilized under this Agreement.
- C. Exhibit C sets forth the percentage shares to be paid by each Agency during the design and implementation of the RFC System, as well as during operation and

maintenance, toward the regionally shared costs including, but not limited to, RFC and Joint Consultant contract costs, Project Administration costs, Administrative/Project Management Fees, any Regional Service Fees charged by Agencies for the provision of system operating support services to other Agencies; and other shared costs of the Agencies on the RFC Project.

- D. The percentage shares for design and implementation shall not be subject to revision, except as necessary to accommodate the addition of a new agency, or withdrawal by an Agency from this Agreement in accordance with Section XII.
- E. Unless otherwise agreed to by the Joint Board, the percentage shares for operation and maintenance shall be set by the Joint Board no later than July 1 of each year for the following calendar year and shall be based on audited ridership or transaction data. The percentage shares shall reasonably reflect system activity of each Agency.
- F. Pursuant to RCW 39.34.030 (4)(b), the Joint Board may establish special funds with an Agency serving as Fiscal Agent on behalf of all the Agencies. On behalf of the Joint Board, the Fiscal Agent shall establish a smart card central payments account ("SC Central Payments Account") for the design and implementation phase and operation and maintenance phase of the RFC Project. RFC Project funds to be paid to the Contractor or Joint Consultants shall be deposited into and paid out of the SC Central Payments Account. Administrative/Project Management Fees and Regional Service Fees paid by Agencies shall not be included in the SC Central Payments Account. One or more of the Agencies may, at their own expense, audit the performance of the Fiscal Agent under this Agreement. Upon reasonable notice, during normal working hours, the Fiscal Agent shall provide access to and facilities for copying the records of its actions and decisions while performing as Fiscal Agent.
- G. The Joint Board shall establish policies and procedures for receiving payments into and authorizing disbursements from the SC Central Payments Account. The Fiscal Agent shall make no payments out of the SC Central Payments Account except as authorized by the policies and procedures established by the Joint Board.
- H. To the extent authorized by the Contract Administrator, the Fiscal Agent shall disburse payments from the SC Central Payments Account established pursuant to this Agreement. The Fiscal Agent shall have no obligation to disburse funds from such account unless balances in the account are sufficient to cover the disbursement. The Invoice Payment Process is set forth in Exhibit C to this Agreement.
- I. Each Agency agrees to make payments promptly, and consistent with the deadlines set forth in Exhibit C, upon receipt of written notification from the Contract Administrator. The Contract Administrator may give such notification by

electronic or other means as authorized by the Joint Board and as required by each Agency to comport with individual accounts payable policies and procedures. Each Agency shall make payment by electronic funds transfer.

- J. Each Agency shall be responsible and liable to the other Agencies for interest and other costs, claims or liabilities of any kind that result from late payment by the Agency, and the late-paying Agency shall defend, indemnify and hold harmless the other Agencies from such costs, claims or liabilities resulting from the late payment. If, in order to avoid late payment charges under a contract, the Contract Administrator authorizes payment without first receiving the share of the payment from an Agency, and the Fiscal Agent agrees to advance sufficient funds from a reserve account established jointly by the Agencies for such purpose, and then the Joint Board may assess interest costs against the late paying Agency at the rate of twelve percent per annum. Should such funds be unavailable, the Fiscal Agent may make partial payments. The late-paying Agency will be responsible for any late payment charges. In the event an individual Agency fails to pay its individual costs or its share of regional costs, the other Agencies may also seek a judgment against said Agency. The costs of seeking a judgment will be considered costs of the Agencies and shall become part of the RFC Project Budget. Any costs incurred to seek the judgment and recover costs will be charged against the responsible Agency.
- K. In addition to its responsibilities related to the SC Central Payments Account outlined above, the Fiscal Agent will establish the following bank accounts on behalf of all of the Agencies:
1. Float/E-purse Account: This account will serve as the central repository for e-purse revenue. Interest that accrues in this account, if any, shall be distributed to each Agency quarterly according to the operation and maintenance percentage shares in effect for that quarter. The Float/E-purse Account shall be established prior to the BETA Test.
  2. Claim Account: This account will serve as the central repository for e-purse transaction funds for which data were lost after a certain period of time. Distributions from this account shall be subject to procedures adopted by the Joint Board. However, interest that accrues in this account, if any, shall be distributed pro rata to each Agency quarterly according to the operation and maintenance percentage shares set forth in Exhibit C.
- L. To the extent the Fiscal Agent incurs actual costs in serving as Fiscal Agent under this Agreement, each Agency agrees to pay an Administrative/Project Management Fee to the Fiscal Agent to cover its actual labor, material, overhead and other costs incurred in providing services as Fiscal Agent. Prior to assessing such fee, the Fiscal Agent shall inform the Joint Board of the basis for and amount of the proposed fee, which fee shall be subject to approval by the Joint Board. The Joint Board shall notify each Agency not later than July 1 each

year of the monthly fee and the share of that fee to be paid by each Agency in the upcoming year.

- M. Each Agency shall maintain its own banking relationships. Each Agency shall establish an automated clearinghouse (ACH) authorization with its own bank to allow the Contractor to complete daily net settlements between the various Agency accounts, including the Float/E-purse and Claim accounts described above. An Agency shall restrict access to certain account numbers in order to limit the Contractor's options for where it can direct funds. Each Agency shall establish the ACH authorization prior to the BETA Test.
- N. The provisions of this Agreement assume that all load and use transactions related to the RFC System are fare payment in nature. Prior to performing any Agency-specific non-fare related load or use transactions or fare payment transactions that take place outside of the Central Puget Sound, an Agency must submit a proposal to the Joint Board for approval which includes, but is not limited to, the treatment of handling and administrative costs and risks associated with such transactions, potential RFC Contract change orders to accomplish the completion of such transactions, and any other associated costs.
- O. The Agencies acknowledge that the Contractor will use a net settlement process to simplify and reduce the number of transfers necessary to accomplish reconciliation. The timeline for this process generally is as follows: Day 1) transactions are processed at midnight on the day they occurred; Day 2) at noon the following day, reports are available to the Agencies showing how much money will either be deposited into or deducted from their accounts the next morning at 8 a.m.; and Day 3) funds are transferred.
- P. The Agencies acknowledge that revenue from the loading of pass value at Agency locations will be distributed at the time of net settlement among the various Agencies according to the business rules.
- Q. The Agencies acknowledge that funds loaded by customers into an e-purse for transportation trips are deposited into the Float/E-purse Account. As trips are actually provided, the Contractor shall transfer funds from the Float/E-purse Account to individual Agency accounts via the net settlement process.
- R. In addition to the revenue distribution procedures outlined above, the Agencies agree they will utilize a uniform accounting treatment, in accordance with revenue allocation formulae, for fare revenue received from the sale of smart cards and the passes or stored value purchased by customers for use on their smart card.
- S. Except as otherwise specified below, the individual Agencies shall be the merchants of record for all card issuance and value issuance transactions. Agencies shall accept credit or debit cards for such transactions. In order to

conduct such transactions, Agencies may have individual relationships with their merchant banks or may join together to procure such banking services. Although fees charged to an Agency by a third party for the provision of certain transactions may be shared by the Agencies as described below, each Agency remains solely responsible for its own internal costs of conducting said transactions. The Agencies' responsibilities regarding specific types of transactions are as follows:

1. Over the counter transactions: Credit or debit card fees charged to an Agency for over the counter transactions shall be shared by all of the Agencies according to the operation and maintenance percentage shares set forth in Exhibit C. However, the transacting Agency shall bear the risk of fraud, including chargebacks, unless the Agency transfers the risk to its merchant bank.
2. Ticket Vending Machine (TVM) transactions: Sound Transit shall be the merchant of record for TVM transactions and shall bear the risk of fraud, including chargebacks, for such transactions unless it transfers the risk to its merchant bank. Credit card fees for TVM transactions shall be shared by the Agencies according to the operation and maintenance percentage shares set forth in Exhibit C.
3. Telephone transactions: King County agrees to be the merchant of record for telephone transactions performed by King County. However, the Agencies shall share the cost of credit card and any other fees and the risk of fraud for telephone transactions according to the operation and maintenance percentage shares set forth in Exhibit C. The Agencies shall pay King County a Regional Service Fee for its performance of the functions herein on behalf of all of the Agencies. King County may terminate its provision of this service at its sole discretion and convenience upon one hundred and fifty (150) days written notice to the other Agencies.
4. Mail transactions: King County agrees to be the merchant of record for mail transactions performed by King County. However, the Agencies shall share the cost of credit card and any other fees and the risk of fraud for mail transactions according to the operation and maintenance percentage shares set forth in Exhibit C. The Agencies shall pay King County a Regional Service Fee for its performance of the functions herein on behalf of all of the Agencies. King County may terminate its provision of this service at its sole discretion and convenience upon one hundred and fifty (150) days written notice to the other Agencies.
5. Website transactions: King County agrees to be the merchant of record for website transactions. However, the Agencies shall share the cost of credit card and any other fees and the risk of fraud for website transactions according to the operation and maintenance percentage shares set forth in

Exhibit C. The Agencies shall pay King County a Regional Service Fee for its performance of the functions herein on behalf of all of the Agencies. King County may terminate its provision of this service at its sole discretion and convenience upon one hundred and fifty (150) days written notice to the other Agencies.

6. Autoload transactions: King County agrees to be the merchant of record for autoload transactions. However, the Agencies shall share the banking fees, if any, and the risk of fraud for autoload transactions according to the operation and maintenance percentage shares set forth in Exhibit C. The Agencies shall pay King County a Regional Service Fee for its performance of the functions herein on behalf of all of the Agencies. King County may terminate its provision of this service at its sole discretion and convenience upon one hundred and fifty (150) days written notice to the other Agencies.
  7. Third party retail transactions: The third party retailer shall be the merchant of record, including bearing responsibility for credit card fees and the risk of fraud, for transactions occurring on its premises. An Agency may not agree to assume credit card fees or the risk of fraud on behalf of a third party retailer without the prior approval of the Joint Board.
- T. Except for mail transactions performed on behalf of the Agencies by King County for which the risk of fraud shall be shared by the Agencies, if an Agency or third party retailer accepts cash or checks as payment for any of the transactions described above, that Agency or third party retailer shall bear the risk of fraud and, in the case of checks, insufficient funds regarding such transactions.
- U. The Contract Administrator shall assist each Agency to make best efforts to secure state and federal grant funds to assist in paying its portion of the RFC Project. If such funds are offered, the Agency shall comply with all terms and conditions applicable to receipt and use of the funds. If such grants include requirements that are not included in this Agreement or the RFC or Joint Consultant contract, the Agency shall propose amendments to the affected agreement or contract to accommodate the grant requirements. Each Agency acknowledges that while such funds would assist in paying its portion of the RFC Project, the Agency's acceptance and compliance with such terms and conditions constitute an integral part of the overall funding plan for the RFC Project. Each Agency agrees that if one Agency is awarded a grant for which all Agencies are eligible, the receiving Agency shall distribute the grant funds with the other Agencies prior to obligation according to the regionally shared cost percentages in place at the time said grant is distributed. Each Agency further agrees to obligate their appropriate share of grant funds through the state or federal agency awarding the funds and apply them to the RFC Project. The grant funds distribution strategy is included in Finance Plan set forth as Exhibit C to this Agreement.



## VII. NOTICES

- A. Communications under this Agreement may be provided by telephone, regular mail, e-mail, or fax, except that any notices or demand on other parties including, but not limited to, an Agency's notice of its intent to withdraw from this Agreement, shall be in writing and shall be deemed to have been given if delivered in person or deposited in any United States Postal Service mail box, sent by registered or certified mail, return receipt requested, and first class postage prepaid, addressed to the Agency for whom it is intended as follows:

If to the Snohomish County Public Transportation Benefit Area:

Name: John Sindzinski  
Title: Chief Operations and Development Officer  
Address: 7100 Hardeson Road  
Everett, WA 98203-5834

If to the Kitsap County Public Transportation Benefit Area:

Name: John Clauson  
Title: Service Development Director  
Address: 200 Charleston Blvd.  
Bremerton, WA 98312

If to the Central Puget Sound Regional Transit Authority:

Name: Brian Brooke  
Title: Fare Integration Project Manager  
Address: 401 South Jackson Street  
Seattle, WA 98104-2826

If to Washington State Ferries:

Name: Thom Opheim  
Title: Operations Planning Manager  
Address: 2911 Second Avenue  
Seattle, WA 98121

If to King County:

Name: Peggy Willis  
Title: Manager, Management Information and Transit Technology

Address: 201 South Jackson Street (MS-KSC-TR-0333)  
Seattle, WA 98104-3856

If to the Pierce County Public Transportation Benefit Area:

Name: Kevin Desmond  
Title: Vice President Operation and Development  
Address: P.O. Box 99070  
Tacoma, WA 98499-0070

- B. These names, titles and addresses may be changed by written notice to all Agencies provided pursuant to this provision.

### **VIII. FARE COLLECTION AND CUSTOMER SERVICE PRACTICES**

The Agencies acknowledge that the Fare Collection and Customer Service Practices set forth in Exhibit D, attached hereto and made a part hereof, were included in the design of the RFC System and that changes in such Practices could financially affect the RFC Project and the other Agencies. Each Agency agrees it shall notify the other Agencies in writing, at least sixty (60) days in advance, of any change in its fare collection and customer service practices, and further agrees that it shall not implement any fare collection or customer service practices that are inconsistent or conflict with Exhibit D. The Agencies agree that Exhibit D may be amended by the Joint Board as provided in Section III.E of this Agreement.

### **IX. PROVISION OF REGIONAL SUPPORT SERVICES BY AN AGENCY**

- A. King County will perform the following system operating support services for all Agencies: (1) card stock warehouse, inventory management and distribution; (2) card procurement – order processing for the Agencies with the Contractor; (3) and new card purchase and revalue request fulfillment for all customer mail, web or phone sales and all Institutional (subsidy) Accounts, including acting as the merchant of record for such transactions. The system operating support services that will be provided by King County are further described in Exhibit E. The other Agencies shall pay King County a Regional Service Fee for the provision of such support services in the same manner and frequency as required for Administrative/Project Management Fees unless established otherwise by the Joint Board. The Joint Board shall review annually all Regional Service Fees. King County may cease providing all or some support services at its sole discretion and convenience upon one hundred and fifty (150) days written notice to the other Agencies.
- B. The Joint Board may also approve another Agency's provision of these or other system operating support services. If approved by the Joint Board, such Agency

shall be paid a Regional Service Fee for the provision of such services. The Agency may also terminate its provision of support services at its sole discretion and convenience upon one hundred and fifty (150) days written notice to the other Agencies.

**X. INTELLECTUAL PROPERTY**

- A. The capitalized terms used in this Section shall have the same meanings as have been given those terms in the RFC Contract.
- B. Each Agency agrees that it will exercise its license rights in accordance with the license provisions of the RFC Contract as regards any intellectual property provided under said contract ("IP"), including Contract Deliverables, Contractor IP, DDU IP, RFCS IP, Third Party IP and IP Materials related to all such intellectual property.
- C. Each Agency that desires to install additional applications onto its DDUs shall, in conjunction with the Contract Administrator, obtain the Contractor's certification in accordance with the process outlined in the RFC Contract prior to installing such additional applications.
- D. Each Agency shall take reasonable measures, to the extent required by the RFC Contract, to protect any IP and IP Materials related to same from being disclosed to third parties other than those to whom sublicenses and transfers are permitted by the license rights granted under the RFC Contract. Each Agency shall require such other permitted third parties to sign nondisclosure agreements requiring that they also undertake reasonable protection measures.
- E. Each Agency shall take such reasonable measures as are necessary to protect the confidentiality of (1) Use Data and Use Data Reports that contain personally identifiable information, and (2) any IP and IP Materials related to same, to the extent protective measures are required by the Contract. Such measures shall include (1) restricting access to such personally identifiable information, IP and IP Materials to those of its employees with a reasonable need to know; (2) requiring such employees to sign a nondisclosure agreement; (3) promptly enforcing any violations of such agreements; and (4) reporting such violations to the Contract Administrator as soon as is practicable.
- F. Each Agency shall pay its share of the fees related to the Escrow Agreement, which will be in effect during the term of the RFC Contract. An Agencies' share shall be determined by the percentage share in effect at the time the fee is due to the escrow service firm.

- G. Notwithstanding any provision in the RFC Contract, each Agency agrees that it shall not grant or transfer any rights in IP related to the RFCS without the written approval of the Joint Board.
- H. Each Agency shall defend, indemnify and hold harmless the other Agencies against any and all infringement actions, claims for license fees or royalties, suits, actions, and liabilities of any kind whatsoever, including attorneys' fees and costs, which arise out of or are in any way related to the negligent or intentional act of an Agency, its employees, agents or contractors in using, transferring, sublicensing or otherwise releasing any IP, IP Materials related to same, or information in violation of any of the provisions of this Section or the RFC Contract.
- I. In the event of an Agency's withdrawal from this Agreement, the Agency shall deliver to the Contract Administrator, and relinquish its license rights in, all IP created or provided for the RFC Project except to the extent such IP was created or provided solely for the use or benefit of the withdrawing Agency. In the event this Agreement is terminated, each Agency shall retain any license rights for which it has paid its share of the costs.
- J. The provisions of this Section X shall survive and remain applicable to the Agencies notwithstanding any termination or expiration of this Agreement or an Agency's withdrawal from this Agreement. However, an Agency shall obtain no rights to any IP created after an Agency withdraws from this Agreement.

**XI. LEGAL RELATIONS**

- A. It is understood and agreed that this Agreement is solely for the benefit of the Agencies and gives no right to any other entity. No joint venture or partnership is formed as a result of this Agreement. No employees or agents of an Agency or any of an Agency's contractors or consultants shall be deemed, or represent themselves to be, employees of any other Agency.
- B. The Agencies shall comply, and shall ensure their respective contractors comply, with all federal, state and local laws, regulations and ordinances applicable to their respective obligations under this Agreement.
- C. The Agencies shall each comply with the terms of all grant agreements between an Agency and the FTA which terms are incorporated herein by this reference. Any Agency which receives federal grant funds for reimbursement of payments made or expenses incurred in performance of work under this Agreement shall defend, indemnify and hold harmless each of the other Agencies against any claims, lawsuits, actions, grievances, costs, losses, damages or liabilities or obligations of any kind whatsoever which are directly or indirectly related to the terms of such Agency's grant agreement with the federal government.

- D. To the maximum extent permitted by law, each Agency shall defend, indemnify and hold harmless the other Agencies and all of their officials, employees, principals and agents from all claims, demands, suits, actions, and liability of any kind, including injuries to persons or damages to property, which arise out of, are connected with, or are due to any negligent acts or omissions of the indemnifying Agency, its contractors, and/or employees, agents, and representatives in performing the Agency's responsibilities and other work referred to in this Agreement; provided, however, that if (and only if) the provisions of RCW 4.24.115 apply to any work under this Agreement and any such damages and injuries to persons or property are caused by or result from the concurrent negligence of Agencies, their contractors or employees, agents, or representatives, the indemnification applies only to the extent of the negligence of each Agency, its contractor or employees, agents, or representatives. Each Agency specifically assumes potential liability for actions brought by its own employees against any other Agency and for that purpose the indemnifying Agency specifically waives, as respects the other Agency only, any immunity under the Worker's Compensation Act, RCW Title 51; and each Agency recognizes that this waiver was the subject of mutual negotiation and specifically entered into pursuant to the provision of RCW 4.24.115, if applicable. Each Agency to this Agreement shall reasonably notify the other Agencies of any and all claims, actions, losses or damages that arise or are brought against that Agency relating to or pertaining to this Agreement. In the event an Agency incurs attorney's fees, costs or other legal expenses to enforce the provisions of this section against any other Agency, all such fees, costs and expenses shall be recoverable by the prevailing Agency.
- E. In the event a third party to this Agreement, other than the FTA, submits a claim to the Agencies or any individual Agency for costs, damages or liabilities of any kind pursuant to the third party's contract with the Agencies, or in tort or any other legal theory, the Agencies agree to meet for the purpose of developing a joint defense plan. The Agencies agree to cooperate with each other as necessary in responding to and defending against all such actions. In the event that resolution of the claim, whether by negotiation, Dispute Review Board recommendation, mediated settlement or judicial order, results in additional costs to the Agencies, said additional costs will be shared by the Agencies, except to the extent that the additional costs are directly attributable to an individual Agency. Such additional costs to the Agencies may include, but are not limited to, the fully allocated labor cost of the staff and attorneys involved in the response or defense of all such actions and any outside counsel or consultant resources deemed necessary by the Agencies. In the event that the additional costs are attributable to an individual Agency, said Agency is responsible for such costs and shall pay same within thirty (30) days of the claim's resolution.

- F. In the event an Agency fails to perform an obligation under this Agreement, the Agencies shall have the right to bring an action for specific performance, damages and any other remedies available under this Agreement, at law or in equity.
- G. Except for the reimbursement and other express obligations under this Agreement, no Agency by reason of this Agreement assumes any responsibility for the payment of any compensation, fees, wages, benefits or taxes to or on behalf of any other Agency, including its employees, representatives, agents, contractors or suppliers.
- H. The Agencies' rights and remedies under this Agreement are in addition to any other rights and remedies provided by law.
- I. These legal relation provisions shall survive and remain applicable to each of the Agencies notwithstanding any termination or expiration of this Agreement and notwithstanding termination by an Agency of its participation under this Agreement.

## **XII. TERMINATION**

- A. The Joint Board may terminate this Agreement in its entirety by the unanimous affirmative vote of all Agency representatives.
- B. In the event that an Agency believes it has cause to withdraw from this Agreement and terminate its participation in the RFC Contract, it shall give written notice to the Joint Board, which shall include the following information, as a minimum:
  - 1. An explanation of the circumstances causing the Agency to believe withdrawal is necessary;
  - 2. A description of the probable impacts on the other Agencies from the withdrawal (to be developed in collaboration with the Contract Administrator);
  - 3. A description of the probable impacts to the scope, schedule and budget of the RFC Contract (to be developed in collaboration with the Contract Administrator);
  - 4. A description of the alternatives to withdrawal that have been evaluated by the Agency;
  - 5. A proposed withdrawal work plan that will identify all necessary actions which need to be undertaken to effect the withdrawal (to be developed in collaboration with the Contract Administrator).
- C. Upon receipt of the above-described notice and information, the Joint Board will convene a special meeting to review and consider the request for withdrawal. The Joint Board will develop a report of its Findings and Recommendations

within 30 days of its special meeting, which shall be presented to the withdrawing Agency's Governing Board. This report shall include as a minimum:

1. A description of the estimated impacts on the Agencies, separately and as a whole, from the withdrawal;
  2. A description of the estimated impacts to the scope, schedule and budget of the RFC Contract, including the costs to modify the RFC System to effect such withdrawal as well as costs that will need to be re-apportioned to the remaining Agencies;
  3. A description of the alternatives to withdrawal that have been evaluated by the Agency and the Joint Board;
  4. A recommendation regarding either:
    - a. a proposed withdrawal work plan that will identify all necessary actions which need to be undertaken to effect the withdrawal; or
    - b. proposed alternatives to the withdrawal.
- D. Upon receipt of the Joint Board's Findings and Recommendations, the withdrawing Agency's governing board shall review the information contained therein and decide whether to withdraw subject to the terms and conditions set forth by the Joint Board, including an assessment of any reasonable costs (to include assessment rationale, assumptions and documentation) that shall be re-apportioned to the Agencies and/or paid by the withdrawing Agency subject to the provisions of Section H below.
- E. An Agency shall assign any RFC Project grants to the remaining Agencies upon its withdrawal from this Agreement. In addition, the withdrawing Agency shall be responsible, as required, for repayment to the FTA of any grant funds previously spent in relation to the RFC Project. The withdrawing Agency also agrees to defend and indemnify the remaining Agencies should the FTA require repayment of grant funds at a later date.
- F. In addition to being liable for its share of RFC Project costs to and including the effective date of withdrawal, the withdrawing Agency shall be solely liable for damages and additional costs to the other Agencies arising out of or resulting from such withdrawal, subject to the provisions of Section H below. The Joint Board shall determine the amount of such damages and additional costs and notify the withdrawing Agency of the amount owing to each of the Agencies. The withdrawing Agency shall pay the amount within ninety (90) days after the effective date of withdrawal.
- G. No Agency shall communicate a notice of termination to the Contractor prior to the Joint Board's and Agency governing boards' completion of the processes set forth in this Section XII. Following approval from the Joint Board, the Contract Administrator shall communicate to the Contractor such Agency's notice of termination.

- H. Washington State Ferries (WSF) must obtain specific approval for ongoing operating and maintenance expenditures from the Legislature before engagement in the actual operation of the Regional Fare Coordination Project. This approval comes through adoption of a specific line item authorization within the WSDOT-WSF portion of the State of Washington's Transportation budget. WSF will make every reasonable effort to obtain such authorization. In the event such authorization is not obtained in the 2003 legislative session, WSF may give notice of its withdrawal without following the process set forth in the other provisions of this Section XII, and WSF shall only be required to pay the costs specified below. The effective date of a withdrawal by WSF under this subsection shall be the last day of the calendar month following the calendar month in which the Agencies receive the notice of withdrawal.

If WSF is unsuccessful in receiving approval of such authorization during the 2003 legislative session and gives notice to withdraw from the RFC Project not later than 30 days after the close of the 2003 session, WSF's financial liabilities under this Section XII shall be limited to: (i) WSF's share of the RFC Project costs to and including the date of withdrawal; and (ii) assignment of any remaining RFC Project grants authorized for expenditure by WSF to the remaining Agencies upon the effective date of withdrawal. Said RFC Project costs under (i) above include: Project administration costs under the Agreement; milestone and Project Management payments owed to the Contractor, pro-rated through the effective date of withdrawal; and any additional cost required to be paid to the Contractor to implement the withdrawal.

Any such transfer of federal fund expenditure authority under this Section shall be governed by all applicable federal guidelines regarding use of such funds. If WSF withdraws from this Agreement at any time other than the time frame provided above, such withdrawal shall be governed by the other provisions of this Section XII.

### **XIII. GENERAL PROVISIONS**

- A. This Agreement shall take effect on the date that is executed by all of the Agencies and shall remain in effect unless terminated in accordance with the provisions of Section XII.
- B. Pursuant to RCW 39.35.040, prior to its entry into force, this Agreement shall be filed with the auditors of the counties of Snohomish, Kitsap and King.
- C. The Agencies recognize that time is of the essence in the performance of the provisions of this Agreement.
- D. Pursuant to RCW 39.34.030(5), this Agreement shall not relieve any Agency of any obligation or responsibility imposed upon it by law except that to the extent



of actual and timely performance thereof by the Joint Board, the performance may be offered in satisfaction of the obligation or responsibility.

- E. Without limiting any Agency's defense and indemnification obligations under this Agreement, each Agency shall maintain in force, at all times during the term of this Agreement, a policy or policies of Commercial General Liability insurance with limits not less than \$1 million with insurance carriers authorized to do business in the state of Washington, which have a Best's rating of no less than A: VIII. If an Agency is self-insured, or is a member of a self-insurance pool, a certification of self-insurance covering the activities of the Agency in the RFC Project shall constitute compliance with this insurance requirement. Upon request of the Joint Board, each Agency shall submit documentation demonstrating its compliance with this insurance requirement.
- F. The Agencies shall comply with the nondiscrimination requirements under federal and state laws, regulations and grants applicable to the RFC Project. Nondiscrimination requirements shall include, but not be limited to, contractors, consultants and employers engaged on the RFC Project.
- G. The Agencies reserve any rights, powers, privileges, authority, liabilities, obligations and duties set forth in or provided by any previous agreement executed by an Agency related to activities, actions and decisions precedent to the RFC Project. This Agreement shall not be construed in derogation of any such rights, powers, privileges, authority, liabilities, obligations and duties.
- H. No term or provision of this Agreement shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the Agency or Agencies claimed to have waived or consented. Waiver of any default of this Agreement shall not be deemed a waiver of any subsequent default. Waiver of breach of any provision of this Agreement shall not be deemed to be a waiver of any other or subsequent breach. Waiver of such default and waiver of such breach shall not be construed to be a modification of the terms of this Agreement unless stated to be such through written approval of all Agencies.
- I. No Agency shall transfer or assign a portion or all of its responsibilities under this Agreement, except with the prior authorization of the Joint Board.
- J. Each Agency shall establish and maintain accounts, records and documents as required by state law and grant provisions to ensure the proper accounting for its RFC Project expenditures. Such accounts, records and documents, including but not limited to personnel, property, financial and programmatic records, shall be maintained in accordance with generally accepted accounting principles. Accounts, records and documents related to the Capital phase of the RFC Project shall be retained for six years following "Full System Acceptance". Accounts, records and documents related to the Operating phase of the RFC Project shall be retained for six years on a rolling schedule from year one of

system revenue service operations. The Contract Administrator will advise the Joint Board on what records need to be retained by individual agencies. Such accounts, records and documents related to matters under this Agreement shall be subject to inspection, review or audit by the Joint Board.

- K. Tangible property paid for by an Agency under this Agreement shall be owned and in the care and custody of the Agency. Each Agency shall take all reasonable and necessary actions to protect such property. Each Agency shall comply with requirements of grant agencies for the proper management of such property. The Joint Board shall not be deemed to own any property. In the event an Agency terminates its participation in this Agreement or this Agreement is terminated, the Agency shall retain all property or interests in property for which it has paid its share of the costs. Disputes about ownership of property shall be presented to the Joint Board.
- L. If one or more Agencies believes another Agency has failed to comply with the terms of this Agreement, the affected Agencies shall attempt to resolve the matter informally. If the Agencies are unable to resolve the matter informally, it shall be forwarded for discussions by the highest executive of each Agency. If this process fails to resolve the matter within thirty (30) days after such referral, an Agency may then pursue any legal remedy available to it or the Agencies may agree to submit the matter to mediation. If the Agencies submit the matter to mediation and the matter is not resolved, then the aggrieved Agency shall be entitled to pursue any legal remedy available.
- M. Any Agency may propose changes to this Agreement. Except for amendments that are specifically authorized to be approved by the Joint Board as set forth in Section III.E or that do not materially affect the policies and intent of this Agreement, this Agreement may only be amended by a written amendment that is approved by the each Agency's governing board or its appropriate Agency representative.
- N. This Agreement is entered into as a joint and cooperative undertaking of the Agencies in order to facilitate implementation of the RFC Project. This Agreement shall not be deemed to confer on any third parties any rights or benefits, unless specifically set forth herein.
- O. This Agreement shall be interpreted and constructed according to and enforced under the laws of the state of Washington. The Agencies agree that the Superior Court of King County, Washington shall have exclusive jurisdiction and venue over any legal action arising under this Agreement.
- P. The Agencies agree that this Agreement is a complete expression of the terms herein and any oral or written representations or understandings not incorporated herein are excluded.

**XIV. SEVERABILITY**

If any of the provisions of this Agreement are held to be invalid, illegal or unenforceable by a court of competent jurisdiction, the remaining provisions shall remain in full force and effect. To that end, the provisions of this Agreement are declared to be severable.

IN WITNESS WHEREOF, authorized representatives of the Agencies have signed their names in the spaces provided below.

**Central Puget Sound Regional Transit Authority**

**Snohomish County Public Transportation Benefit Area**

\_\_\_\_\_  
name  
\_\_\_\_\_  
Executive Director  
Acting under Authority of Motion No.  
\_\_\_\_\_.

\_\_\_\_\_  
name  
\_\_\_\_\_  
Chief Executive Officer  
Acting under Authority of Motion No.  
\_\_\_\_\_.

Approved as to form:

Approved as to form:

\_\_\_\_\_  
name of attorney office

\_\_\_\_\_  
name of attorney office

**King County**

\_\_\_\_\_  
name  
\_\_\_\_\_  
General Manager  
Acting under Authority of Motion No.  
\_\_\_\_\_.

Approved as to form:

\_\_\_\_\_  
name of attorney office

**Kitsap County Public Transportation Benefit Area**

\_\_\_\_\_  
name  
\_\_\_\_\_  
Executive Director  
Acting under Authority of Motion No.  
\_\_\_\_\_.

Approved as to form:

\_\_\_\_\_  
name of attorney office

**Washington State Ferries, Washington State Department of Transportation**

\_\_\_\_\_  
Name  
\_\_\_\_\_  
Director, CEO

Approved as to form:

\_\_\_\_\_  
name of attorney office

**Pierce County Public Transportation Benefit Area**

\_\_\_\_\_  
name  
\_\_\_\_\_  
Chief Executive Officer

Acting under Authority of Motion No.  
\_\_\_\_\_.

Approved as to form:

\_\_\_\_\_  
name of attorney office

## EXHIBIT A

### PROJECT TEAM PLAN

#### Contract Administrator

- Primary responsibility, as directed by the Joint Board, for overall program management of the collaborative regional elements of the RFC Project, to include supervision of the Project Team and support services, the Contractor, and Joint Consultant contract administration. *Note: The individual Agency Site Managers are considered to be key participants of the Project Team, however they report solely and directly to the organization they represent.*
- Provide planning and administrative coordination with the Agency Site Managers.
- Report to and provide administrative coordination with the Joint Board. This coordination shall include, but not be limited to, monthly project scope, schedule, budget and outstanding issue/resolution updates.
- Provide support to the individual agency project-related needs and requirements. In the event these individual agency requirements are in conflict, the Contract Administrator shall present to the Joint Board for its action, an issues summary and recommended resolution.
- Develop, monitor, and recommend to the Joint Board, as required, revisions to RFC Project scope, schedule, budget, and finance plans.
- As directed by the Joint Board or within delegated authorities as set forth in this Agreement, provide primary direction (i.e. "single point of contact") to consultants and the Contractor.
- As directed by the Joint Board, identify and develop resolution strategies for policy issues such as labor, fares, customer services, budget, resource deployment, service contracts, marketing, etc.
- As directed by the Joint Board, implement, monitor and recommend revisions, as required, to the Agency Business Rules adopted to provide technical guidance to the contractor and policy guidance to the Agencies.
- As directed by the Joint Board, facilitate the development of a RFC Project rollout plan which includes, but is not limited to, the following elements:
  - Approach for conversion of current passholders to smart cards;
  - Approach for conversion of current cash riders to smart cards;

- Approach for transitioning current institutional accounts to smart cards; and
- Approach for transitioning to this Agreement from current Regional Fare Revenue Reconciliation Agreement (dealing with Puget Passes) which is not participated in by all of the parties to this Agreement.
- As directed by the Joint Board, facilitate the development of uniform agreements to be used by the Agencies during the RFC Contract including, but not limited to, the following:
  - Cardholder agreement: This agreement will set forth the contractual relationship between the cardholder and the Agencies and include provisions such as permissible uses of the card, limits on stored value, refund policy, privacy policy, etc.
  - Institutional accounts: This agreement will set forth the contractual relationship between the employer/organization and the Agency and include provisions regarding billing arrangements, card issuance, account management tools available to the employer/organization, etc.
  - Third party retailers: This agreement will set forth the contractual relationship between the third party retailer and the Agency and include provisions regarding the duties required of the third party retailer, billing arrangements, merchant of record responsibilities, etc.

### **IS/Technical Manager**

- The Regional Technical Manager shall perform duties as delegated by the Contract Administrator, who may include, but not be limited to those noted below.
- Primary responsibility for contractor/Agency technical coordination to ensure implementation of the RFC System in accordance with the RFC Contract requirements, implementation plan and schedule, and all other deliverables. All contract requirements will be tracked using the RequisitePro program.
- Coordinate Contractor and Agency Site Manager technical activities related to design, development, implementation, test, delivery, and operation of the RFC System.
- Monitor the Contractor and Agency performance and compliance regarding technical elements; report on status and recommend revisions as required.
- Monitor RFC Project schedule, report on status, and initiate action, as necessary, to maintain schedule related to technical elements.

- Conduct regular status meetings with the Contractor and Agencies to identify and track technical issues and problems and provide a complete report to the Contract Administrator.
- Maintain database of RFC Contract technical requirements, and revise existing requirements and/or develop new requirements as needed.
- Identify and document the need for revised and/or new Agency Business Rules.
- As directed by the Contract Administrator, coordinate review and approval of technical contract deliverables.
- As directed by the Contract Administrator, coordinate change orders for appropriate approvals.
- As directed by the Contract Administrator, coordinate Contractor Requests for Information (RFI).

### **Budget & Contract Control Manager**

- The Budget and Contract Control Manager will perform duties as delegated by the Contract Administrator, who may include, but not be limited to, those noted below.
- Primary responsibility for regional project budget, regional grant applications and all regional project financial reporting, invoice reconciliation and payments.
- Coordinate with the Fiscal Agent for tasks related to the joint administration of the regional invoice payment process and to ensure proper accounting treatment for the RFC Project.
- Coordinate with Agency Site Managers and their budget staff to ensure, as appropriate, regionally consistent cost accounting.
- Provide the Agency Site Manager's with regional project budget information as required to meet each agencies internal project reporting requirements.
- Develop and monitor one or multiple database(s) to track the RFC Vendor Contract specification and deliverable compliance and progression of work schedule adherence.
- Develop, monitor and manage a system to generate all Change Orders, monthly budget reports, budget revisions, contractor payments, and Agency invoices for contractor and all other shared or individual Agency payments.

## **Project Assistant**

- Provide administrative support to the Project Team staff, Agency site managers and Joint Board.
- Maintain RFC Project records, files and other documentation.

## **Agency Site Manager(s)**

**Note:** *The individual Agency Site Managers are considered to be key participants of the Project Team, however they report solely and directly to the organization they represent.*

The Agency Site Manager job description is set forth in Attachment 1. The position's key responsibilities are noted below:

- Primary responsibility to coordinate all internal Agency resources to meet all RFC Contract scope and schedule requirements or negotiate revisions as required.
- Primary Agency point of contact/authorized official to give direction to the Contract Administrator, joint consultants and/or the Contractor, as required.



## **AGENCY SITE MANAGER JOB DESCRIPTION**

Each Agency shall appoint a Site Manager or contract with another Agency to provide a Site Manager with the responsibility and authority to make decisions for that Agency that will allow the overall project to maintain scope, schedule, and budget. The Site Manager, as each Agency's Contract Administrator, will be a key participant on the Project Team and will meet regularly with the Project Team, joint consultants, and the Contractor. The Agency Site Manager reports solely and directly to the organization they represent.

### Primary Responsibilities

- Serve as primary Agency point of contact/authorized official for the Contract Administrator, joint consultants, and/or the Contractor as required;
- Advise the Project Team on project status, technical options, and implications for individual Agency activity;
- Coordinate all internal Agency resources to meet all contract scope and schedule requirements or negotiate revisions as required;
- Coordinate the Agency review and approval of all technical design and functionality of the system;
- Attend regular (e.g., weekly) regional meetings to discuss project issues.

### Secondary Responsibilities

- Brief all internal Agency staff about the RFC Project;
- Ensure that all internal Agency staff cooperate with the Contractor and its subcontractors in the execution of the RFC Project;
- Provide necessary interface specifications for all existing Agency systems required for the RFC System;
- Facilitate communication with contractors and suppliers of existing systems or equipment as required;
- Provide plans and drawings of Agency facilities and vehicles as required;
- Coordinate appropriate the Contractor access to required locations for the purpose of system equipment installation;
- Arrange for installation space and adequate facilities for installation crews;

- Arrange for installation space within or near the bus depot bases to house the DACS and WDOLS equipment;
- Assist in the coordination and scheduling of vehicles for installation and testing purposes;
- Facilitate interaction and information exchange in support of testing;
- Participate in the testing of interfaces to all legacy systems;
- Witness and approve tests during various phases of the project including, as applicable, factory acceptance testing, system integration testing, system commissioning testing, beta testing, and acceptance testing procedures;
- Provide access to vehicles, bases, parking lots, ferries (as applicable), and back office locations for installation and testing of the RFC System;
- Review training documentation and coordinate Agency staff attendance at training classes;
- Provide equipment and system support as indicated by the "Maintenance Services Chart" in Division II, section 6.II-10.1 of the RFP;
- Provide classroom facilities for training Agency personnel in Contractor-provided classes.

#### Qualifications and Experience

The Site Manager shall act as each Agency's Contract Administrator and possess the following:

- Experience developing and monitoring project budgets, work schedules, and status reports;
- Experience planning, organizing, and directing the work of project consultants, contractors, and staff;
- Experience negotiating with vendors and monitoring vendor performance;
- Experience establishing work plan details, reporting progress, and anticipating and resolving project difficulties; and
- Experience installing and testing new hardware, software, and data communication networks, as related to a project.

#### Time Commitment

- As Needed

## EXHIBIT B

### CONTRACT ADMINISTRATION PLAN

#### A. Purpose

1. This Contract Administration Plan is included to set forth the general contract administration activities and actions that are to be managed or taken by the Contract Administrator, Joint Board or Agencies. The Agencies intend that the authorities of the Contract Administrator and Joint Board are to be generally consistent with the usual grants of authorities for administration of contracts awarded by a public agency, notwithstanding the fact that each Agency may have specific policies and practices related to contract administration that are different from those described herein.
2. This Plan is intended to be consistent with grant requirements established by the Federal Transit Administration (FTA). If FTA grant requirements differ from provisions in this Plan, the FTA grant requirements shall prevail.
3. In general, the Joint Board has responsibility for overseeing the performance of the Project Team, Joint Consultants and the Contractor. The Contract Administrator has responsibility for the day-to-day management of the Project Team. The Contract Administrator shall be responsible for managing the administration of the RFC Contract and contracts with Joint Consultants, and shall make all decisions except those decisions identified in this Agreement that shall be made by the Joint Board or governing bodies of the Agencies consistent with the level of monetary expenditure authorized by the Joint Board. The Contract Administrator, and members of the Project Team designated by the Contract Administrator, will monitor the performance of Joint Consultants and the Contractor and maintain a contract administration system that ensures that the consultants and the Contractor perform in accordance with the terms, conditions and specifications of the contracts.
4. The Agencies acknowledge that it is essential the Contract Administrator serve as the sole communication conduit with Joint Consultants and the Contractor. Except for the limited roles of the Agency Site Managers, the Agencies and members of the Joint Board shall refrain from communicating directly with the Joint Consultants and the Contractor, unless specifically designated by the Contract Administrator. However, each Agency may communicate directly with the Contractor as necessary for specialized applications (which are the sole responsibility of the Agency).

5. The Agencies acknowledge that the RFC Project has been designated an ITS test site. The Agencies shall cooperate in meeting the ITS test site requirements and, to the extent possible, provide evaluation data including before and after effectiveness data. All costs related to meeting the ITS test site requirements shall be shared by the Agencies.

B. Definitions

1. Contract Administration is the post-award administration of the contract to ensure compliance with the terms of the contract by both the Contractor or a consultant, as applicable, and the Agencies.
2. Contract Administrator's Documentation is the documentation contained in the contract file maintained by or on behalf of the Contract Administrator. The documentation describes the actions taken by the contracting parties in accordance with the requirements of the contract and documents the decisions made in the administration of the contracts. This file shall contain a Contract Folder, which shall contain the official documentation relating to the procurement, award, execution, administration and closeout of the contract. The file shall, as a minimum, include the following materials:
  - a. Executed contract and notice of award;
  - b. Letter of credit, performance and payment bonds, or approved alternative security, bond-related documentation, and correspondence with any sureties or banks;
  - c. Contract-required insurance documentation;
  - d. Post-award (pre-performance) correspondence from or to the consultant or contractor or other governmental agencies;
  - e. Notice to proceed;
  - f. Approvals or disapprovals of contract submittals required by the contract and requests for waivers or deviations from contractual requirements;
  - g. Modifications/changes to the contracts, including the rationale for the change, change orders issued, and documentation, including price/cost analysis documentation, reflecting any time and increases to or decreases from the contract price as a result of the modifications;
  - h. Documentation regarding settlement of claims and disputes including, as appropriate, results of audit and legal reviews of the claims and approval by the proper authority of the settlement amount;

- i. Documentation regarding any stop work and suspension of work orders and termination actions (convenience as well as default); and
- j. Documentation relating to contract close out.

Any Agency may request copies of the Contract Folder or the Contract Administrator's File, particularly if required to satisfy grant requirements. If an Agency receives a public disclosure request for any of the materials in the Contract Folder, the Agency may forward the request to the Contract Administrator, who shall administer it in accordance with the policies and practices of the Agency with whom the Contract Administrator is employed.

- 3. Change Order includes any written change to the contract terms, conditions, specifications, scope, schedule or price, and may be either bilateral or unilateral.

#### C. RFC Contract

- 1. The Agencies agree that the Contract Administrator shall act as the sole conduit for communications to and from the Contractor relating to the administration of the RFC Contract, unless the Contract Administrator specifically authorizes otherwise. However, each Agency may communicate directly with the Contractor as necessary for specialized applications (which are the sole responsibility of the Agency).
- 2. For the RFC Contract, the Contract Administrator is responsible for the following functions. The Contract Administrator may delegate specific activities required to perform these functions to various members of the Project Team:
  - a. Monitor compliance with contract terms & conditions;
  - b. Coordinate communications and information with decision-making board;
  - c. Coordinate with the Agency Site Managers to review contractor milestone deliverables, per the prescribed 45-day agency review time frame. The task and time decomposition of the 45-day review period is generally understood to be as follows – described in business days: **1)** Contract Administrator receives electronic copies of contractor documents and distributes one set to each Agency Site Manager [1 – 2 days]; **2)** Agency Site Manager duplicates material, as required, and distributes internally to reviewers [3 – 4 days]; **3)** Individual staff review period [10 days]; **4)** Agency Site Manager performs internal coordination necessary to clarify

comments and/or reconcile differences of opinion and prepares one consolidated agency response which is submitted to the Contract Administrator [5 days]; **5)** Contract Administrator prepares one consolidated draft regional response and identifies issues and/or differences of opinion, which is provided to the Agency Site Managers [5 days]; **6)** Contract Administrator and Agency Site Managers meet to resolve conflicts/issues; Contract Administrator prepares one final regional response which is submitted to the Contractor [5 days].

- d. Monitor the Contractor's compliance with federal, state and local law and regulations;
- e. Monitor regional project compliance by the Contractor and Agencies with banking and financial laws, regulations & rules;
- f. Recommend to the Joint Board approval of additional card applications and revenue by Agencies;
- g. Recommend to the Joint Board approval of the Contractor's publicity materials and work-related copy by Agencies;
- h. Coordinate regional communications with Site Managers and facilities;
- i. Monitor compliance with the submission of contract documentation requirements;
- j. Coordinate audits by the Agencies or state/federal officials;
- k. Monitor compliance with federal Section 504, ADA and other federal and state civil rights requirements;
- l. Individual Agencies may acquire grant funds, which mandate compliance with specific requirements. To the extent that the grantee Agency gives the Contract Administrator written notification of any such grant requirements, the Contract Administrator will use good faith efforts to comply with such grant requirements;
- m. Review and approve training program and instructors;
- n. Conduct post-award orientation with Project Team, Agencies and the Contractor;
- o. Serve as communication conduit between Agencies and the Contractor;

- p. Respond to information and public disclosure requests from the public and mass media;
- q. Monitor progress and performance by the Contractor;
- r. Oversee compliance with inspections and testing requirements;
- s. Monitor compliance with quality assurance and control plan;
- t. Monitor compliance with program management, progress and performance monitoring plan;
- u. Identify and resolve performance deficiencies;
- v. Confirm quality and quantity of work performed;
- w. Manage Change Order/amendment process;
- x. Perform cost/price analysis of all Change Orders and amendments;
- y. Manage the invoice review, approval and payment processes;
- z. Monitor expenditures and report to Joint Board;
- aa. Administer the claims and disputes processes;
- bb. Administer the defective work, materials or services processes;
- cc. Administer warranties and guarantees;
- dd. Manage the contract closeout process;
- ee. Prepare and maintain the Contract Folder;
- ff. Comply with records retention requirements for Contract Folder.

3. The Contract Administrator shall develop or cause to be developed appropriate procedures and practices for the items listed above. The Contract Administrator may amend such procedures and practices as necessary to meet grant conditions, legal requirements, and RFC Project needs.

D. RFCS Contract Change Orders and Amendments

1. Any Agency may request a Change Order to the RFCS Contract by submitting a written request to the Contract Administrator. The request shall describe the additional work requested, the estimated cost of such additional work, and the expected benefit of such additional work. If the Contract Administrator approves the request, he or she will proceed with the negotiation and approval of the Change Order according to the procedures outlined in this subsection. If the Contract Administrator denies an Agency's Change Order request, the Agency may submit the issue to the Joint Board for resolution.
2. All costs associated with Change Orders requested by an Agency that are determined by the Joint Board to be for the sole benefit of that Agency shall be borne entirely by the Agency rather than as a shared regional cost.
3. The Contract Administrator shall notify each Agency of each Change Order and amendment the Contract Administrator approves. Each Agency delegates to the Contract Administrator its authority to negotiate and approve Change Orders and amendments, if each Change Order and amendment:
  - a. does not exceed \$50,000 in added contract cost;
  - b. does not, when combined with all other Change Orders, add more than thirty (30) days to the performance schedule of each phase of the contract; and
  - c. does not, when added to all Change Orders approved through this delegated authority, exceed a total of \$250,000 in added contract costs; and
  - d. does not create a change to the RFC system architecture.
4. The Contract Administrator may request that the Joint Board authorize from available contingency funds an additional amount for Change Orders if the cumulative total in paragraph 3.c above is reached. The Joint Board may authorize additional amounts at levels it deems appropriate provided the RFC Project Budget is not exceeded.
5. Prior to signing a Change Order or amendment that exceeds the above limitations, the Contract Administrator shall obtain the approval from the Joint Board.



E. RFCS Contract Claims

During the RFCS Contract, the Contractor may file a Contract Claim to request additional time and/or money. The Contract Administrator shall notify each Agency of each Change Order and/or amendment the Contract Administrator approves or rejects as a result of a Contract Claim filed by the Contractor. Each Agency delegates to the Contract Administrator its authority to negotiate and approve Contract Claims subject to the same limitations as regarding Change Orders set forth in paragraph D above.

F. Joint Consultant Contracts

1. The Agencies agree that the Contract Administrator shall act as the single conduit for communications to and from consultants relating to the administration of Joint Consultant contracts, except as specifically authorized otherwise by the Contract Administrator. However, each Agency may communicate directly with Joint Consultants as necessary to enable the consultants to perform work tasks.
2. Each Agency's Site Manager shall be responsible for coordinating communications with the Joint Consultants. An Agency's Site Manager shall:
  - a. Coordinate with the Contract Administrator on a regular basis to avoid conflicts and interface disconnects;
  - b. Provide information to consultants as requested for each task deliverable;
  - c. Identify Agency staff for consultants to interview and provide existing documents to consultants;
  - d. Collect information and provide it to consultants based on templates as provided by consultants; and
  - e. Create a record and provide a copy to the Contract Administrator of the review and comments submitted by an Agency to consultants

G. Joint Consultants Contract Change Orders and Amendments

1. The Contract Administrator shall notify each Agency of any Change Orders and amendments the Contract Administrator approves. Each Agency delegates to the Contract Administrator its authority to negotiate and approve Change Orders and amendments, if each Change Order and amendment:

- a. does not exceed \$10,000 in added contract cost;
  - b. does not, when combined with all other Change Orders and amendments, add more than thirty (30) days to the performance schedule of each phase of the contract; and
  - c. does not, when added to all Change Orders and amendments approved through this delegated authority, exceed a total of \$100,000 in added contract costs.
2. The Contract Administrator may request that the Joint Board authorize from available contingency funds an additional amount for Change Orders if the cumulative total in paragraph 1.c above is reached. The Joint Board may authorize additional amounts at levels it deems appropriate provided the RFC Project Budget is not exceeded.
  3. Prior to signing a Change Order or amendment that exceeds the above limitations, the Contract Administrator shall obtain the approval from the Joint Board.

#### H. Deliverables Under Joint Consultant Contracts

Each Agency shall review proposed contract deliverables under Joint Consultant contracts and provide the Contract Administrator with a written approval or objection. Approval of deliverables shall not be unreasonably withheld by an Agency. If the Contract Administrator has not received an Agency's signed, written objection to a deliverable within five (5) days after the Agency has received a copy of the deliverable, the Agency shall be deemed to have accepted the deliverable as submitted. If one or more Agencies raises an objection in writing that a deliverable is not satisfactory, the Contract Administrator shall forward the objection to the consultant for resolution. If an objection is not resolved and the Agencies are in disagreement as to whether a deliverable is satisfactory, the Joint Board shall meet within seven (7) days after the consultant indicates it is unable to resolve the objection. The Joint Board shall make a unanimous final determination about whether to accept the deliverable. Upon acceptance of a deliverable, the Contract Administrator shall notify the consultant in writing of the acceptance. The consultant may then submit an invoice pursuant to the payment provisions of the consultant contract.

#### I. Claims Against Joint Consultants

In the event one or more of the Agencies intends to file a claim against a Joint Consultant during the term of the contract or at any point after the contract has expired or otherwise terminated, such Agency shall notify the other Agencies at least thirty (30) days in advance of filing the claim and comply with the provisions in Section V.I-K of the Agreement to which this exhibit is attached.

J. Use of Contingency Amounts

The RFC Project Budget shall include a Contingency Amount that can be used to pay the costs of approved Change Orders and amendments to the RFC Contract and Joint Consultant contracts. This Contingency Amount shall be allocated among the Agencies as project costs. Upon presentment of a Change Order, the Contract Administrator shall calculate contingency amounts due from each Agency and direct the Fiscal Agent to bill the Agencies accordingly. The Contract Administrator shall track the contingency activity and make periodic reports to the Joint Board. The Joint Board may not approve Change Orders or amendments that will or may exceed the contingency amounts provided by the Agencies. If additional contingency amounts are needed, the Joint Board shall make an appropriate request therefor to the Agencies.

EXHIBIT C "Finance Plan"

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## I. Executive Summary

**Finance Plan Purpose:** The primary purpose of the Finance Plan, Exhibit C to the Interlocal Agreement, is to summarize the expenses, revenues, cost-sharing assumptions and administrative processes relative to Phase IV "System Design and Implementation" for the Regional Fare Coordination (RFC) Project. In order to implement this project, there will be both regionally shared and individual agency costs.

The Phase V "System Operations" estimated cost assumptions are included, at a summary level, for planning purposes. The Phase V details will be updated by the Joint Board during the project's three year design and implementation phase. Phase V of the vendor contract is a 10-year term, currently anticipated to run from 2006 through 2015.

**Finance Plan Duration:** The Finance Plan is intended to provide detail for the anticipated 39-month system design and implementation period, i.e. from 2003 through 2006.

**Types of Costs:** The Finance Plan provides detailed information on the components of the RFC Project Budget. Agencies will also incur additional internal costs necessary to support site-specific system design and installation. For purposes of providing a comprehensive budget picture, these additional internal estimated costs are identified and summarized in this Exhibit. The types of costs described in the Finance Plan are:

- a. **The RFC Project Budget:** The RFC Project Budget includes two cost categories, 1) the Vendor Contract, and 2) all items identified as "Other Project Administrative Costs". These costs are subject to the regional cost sharing formula. The Joint Board must approve changes to the RFC Project Budget, subject to the capital amounts appropriated as set forth in this Exhibit and future appropriations for operations and maintenance.
- b. **Individual Agency Internal Implementation Costs:** These costs vary among the agencies, contingent upon their internal business needs and approach to the system implementation process. The costs are largely for agency staff labor and may be covered by standard operating budgets, or, providing such costs meet the applicable criteria, they may be charged to the agency's share of regional grant funds or other grant funds it has dedicated to the RFC Project. The funding and administration of these internal project implementation budgets are entirely at the discretion of the individual agency.

**RFC Project Budget Summary of Expense and Grant Revenues Per Agency:** The following table provides a summary of each agency's share of the RFC Project Budget expense and its share of regional grants. Each agency signing the Interlocal Agreement commits to pay an amount up to that specified for it under the "Total RFC Project Budget Estimated Expense" column of the "RFC Project Budget Estimated Expense and Grant Revenues" table directly below. An Agency's actual payment may be less than the amount committed, but shall not exceed the amount below absent an amendment to this Agreement. This obligation will be covered by a combination of grant and local revenues. Details on these costs and grant revenues are found in Sections II, III, and V.

<b>RFC Project Budget Estimated Expense and Grant Revenues</b>			
<b>Agency</b>	<b>Capital Share of Regional Costs</b>	<b>Total RFC Project Budget (Vendor + Other Admin.) Estimated Expense</b>	<b>Total Estimated Share of Grant Revenues</b>
King County Metro	56.77%	\$ 23,241,780	\$ 10,718,881
Community Transit	11.90%	\$ 4,995,119	\$ 2,668,299
Sound Transit	10.96%	\$ 4,461,983	\$ 1,592,084
Kitsap Transit	6.05%	\$ 2,524,460	\$ 878,842
Washington State Ferries	5.42%	\$ 2,262,157	\$ 1,787,326
Pierce Transit	8.90%	\$ 3,656,243	\$ 2,442,842
Everett Transit *			\$ 100,000
<b>Total **</b>	<b>100%</b>	<b>\$ 41,141,742</b>	<b>\$ 20,188,274</b>

\* Everett Transit's grant funds to be redistributed to participating agencies.  
 \*\* Slight variations due to rounding

**Total Project Implementation Estimated Costs:** The following table provides a summary of each agency's total estimated project costs which includes its share of RFC Project Budget and its individual internal implementation estimates. *Note: Sound Transit has proposed, pending its Board approval, to fund some capital and operating costs for Community Transit and Pierce Transit (for the regional express service which PT operates on contract for ST), which may include some internal implementation expenses. Contingent upon the final disposition of that agreement, the costs shown below for CT and ST may be revised.*

<b>Total Estimated RFC Project Budget &amp; Internal Agency Implementation Expense</b>			
<b>Agency</b>	<b>Total RFC Project Budget (Vendor + Other Admin.) Estimated Share of Regional Expense</b>	<b>+ Individual Agency Estimated Internal Expense to Implement</b>	<b>= Total Estimated Implementation Expense</b>
King County Metro	\$ 23,241,780	\$ 2,446,384	\$ 25,688,164
Community Transit	\$ 4,995,119	\$ 932,640	\$ 5,927,759
Sound Transit	\$ 4,461,983	\$ 593,543	\$ 5,055,526
Kitsap Transit	\$ 2,524,460	\$ 732,375	\$ 3,256,835
Washington State Ferries	\$ 2,262,157	\$ 727,682	\$ 2,989,839
Pierce Transit	\$ 3,656,243	\$ 824,000	\$ 4,480,243
<b>Total</b>	<b>\$ 41,141,742</b>	<b>\$ 6,256,624</b>	<b>\$ 47,398,366</b>

***Finance Plan Attachments:*** The document portion of the Finance Plan provides information on a regional summary level. Please see the “Attachments”, as noted in each section, for individual agency worksheets. The Attachments are found in the PDF file “Attachments”.

## II. Regionally Shared Costs: Capital (Phase IV) Cost-sharing Formula

The Capital Phase cost-sharing formula is also applied to regional grant distribution. The formula for distributing RFC Project Budget shared costs and regional grant revenues is determined by the total value of each agency's vendor contract equipment purchases and the vendor equipment installation costs. These costs, and therefore the cost distribution formula, represent each agency's relative system investment. See Sections III and V for detail on the costs to which this formula is applied and the grants subject to this distribution formula.

**Attachment 1:** The individual agency Vendor Contract costs, which provides the detail on equipment and installation purchases, is found in Attachment 1.

Per the formula described above, the five-agency Capital cost-sharing and regional grant distribution is as follows:

Agency	Share of Regional Costs & Grant Revenues
King County Metro	56.77%
Community Transit	11.90%
Sound Transit	10.96%
Kitsap Transit	6.05%
Washington State Ferries	5.42%
Pierce Transit	8.90%
	100.00%



### III. RFC Project Budget (Phase IV) – Estimated Cost Detail

The RFC Project Budget is comprised of two cost categories. These are the Vendor Contract and the “Other Project Administration Costs”. This section details the individual cost items of those two categories and provides the regional total costs, identifies if the cost item is subject to the regional cost-sharing formula and, where appropriate for the administrative costs, provides the cost estimation assumption. The individual agency costs shown in the table below are solely the responsibility of that agency.

**a. Vendor Contract:** The following table details the Vendor Contract. The Vendor Contract payment terms are “fixed price”.

**Attachment 1:** The individual agency Vendor Contract costs are found in Attachment 1.

<b>Vendor Contract – Cost Components and Total Value</b>			
<b>Cost Item</b> Regional Quantity shown in ( )	<b>Regional Total Cost</b> Unless Identified Otherwise	<b>Cost Distribution</b>	
		<b>Regionally Shared Cost per Formula</b>	<b>Individual Agency Cost</b>
<b>Equipment :</b>			
<i>Fare Transaction Processors (2335)</i>	\$ 1,937,356		X
<i>Driver Display Units (2163)</i>	\$ 2,734,032		X
<i>Wireless Data Base System (18)</i>	\$ 63,972		X
<i>Wireless Data Bus System (2163)</i>	\$ 1,299,963		X
<i>Data Acquisition Computer (22)</i>	\$ 290,312		X
<i>Back Office Computer (6)</i>	\$ 352,530		X
<i>Sound Transit TVM upgrade kits (34)</i>	\$ 80,750	X	
<i>Customer Service Terminals (32)</i>	\$ 271,584		X
<i>Photo Identification Units (10)</i>	\$ 182,270		X
<b>Equipment Installation</b>	\$ 319,594		X
<b>Fare Cards</b>	\$ 753,770	X	
<b>Integration:</b>			
<i>KCM POS w/ CST</i>	\$ 19,573		X
<i>KCM Laptop CST application</i>	TBD		X
<i>KCM Radio Control Unit Integration</i>	\$ 86,500		X
<i>CT DDU w/multiple on-board functions</i>	\$ 86,783		X
<i>CARM inventory software</i>	\$ 72,319	X	
<i>Back Office Integration</i>	\$ 246,668	X	
<b>Reports</b>	\$ 563,812	X	
<b>Implementation –Phase 1</b> <i>Thru Revenue Service Beta Test</i>	\$ 11,197,971	X	
<b>Implementation - Phase 2</b> <i>Thru Full System Acceptance</i>	\$ 1,496,969	X	
<b>Project Management</b>	\$ 7,511,872	X	
<b>Training</b>	\$ 683,375	X	
<b>Total Vendor Contract Cost</b>	\$ 30,251,975		

**b. Other Project Administration Costs:** The following table details the “Other Project Administration Costs”. The payment terms for these costs are handled as follows: 1) consultant contracts are fixed price per task with all costs verified, and 2) all other costs are on an expense reimbursement term. Cost estimate assumptions have been reviewed and approved by the Joint Board. All of these costs are shared per the regional cost-sharing formula.

**Attachment 2:** The individual agency estimated shares of “Other Regional Project Administration Costs” are found in Attachment 2.

<b>Other RFC Project Administration Costs</b>		
<b>Cost Item</b>	<b>Key Assumptions</b>	<b>Est. Reg. Cost</b>
<b>Project Management Team</b>	<ul style="list-style-type: none"> <li>4 FTE employed by King County</li> <li>Positions: Contract Administrator, Technical Manager, Budget &amp; Contract Control Manager, and Project Assistant</li> </ul>	\$ 1,029,000
<b>Regional Payment Funds Management</b>	<ul style="list-style-type: none"> <li>The Fiscal Agent is to perform this function.</li> <li>The task is to provide a central account into which individual agency payments can be made and a single payment check issued on behalf of the region.</li> </ul>	TBD
<b>Regional Technical Consultant</b>	<ul style="list-style-type: none"> <li>Scope of Work is to provide expert support to agency staff and the Joint Board in the design review process and deliverable acceptance</li> </ul>	\$ 525,000
<b>Sales Tax</b>	<ul style="list-style-type: none"> <li>100% of the vendor contract is taxable, however there may be exemption for the custom software developed</li> <li>8.8% tax rate. In actual practice, each agency will pay the applicable tax rate for items delivered to their sites</li> </ul>	\$ 2,662,174
<b>Contingency Fund</b>	<ul style="list-style-type: none"> <li>20% of the vendor contract value</li> <li>Joint Board review is required for all change orders</li> </ul>	\$ 6,050,395
<b>Dispute Resolution Board</b>	<ul style="list-style-type: none"> <li>Three experts selected jointly by the agencies and vendor</li> <li>Costs shared 50/50 with the vendor</li> <li>DRB to have scheduled briefings and be “on call” to mediate vendor/agency deliverable acceptance/payment disputes</li> </ul>	\$ 122,100
<b>Intellectual Property Software Escrow Account Fees</b>	<ul style="list-style-type: none"> <li>All system source code will be escrowed</li> <li>A contract will be secured with a firm specializing in system software escrow management</li> <li>The most rigorous level of verification and updates will be utilized</li> </ul>	\$ 99,000
<b>Project Evaluation</b>	<ul style="list-style-type: none"> <li>Consultant contract</li> <li>Scope of Work TBD in collaboration with FTA to support its ITS Evaluation work program</li> </ul>	\$ 75,000
<b>Project Marketing</b>	<ul style="list-style-type: none"> <li>Cost of collateral (brochures, radio ads, bus ads, etc.) for the Beta Test and Full System Rollout</li> <li>Plan to be developed by the agency marketing staff</li> </ul>	\$ 300,000
<b>Sound Transit Consultant Fee to Oversee TVM Upgrade</b>	<ul style="list-style-type: none"> <li>TBD</li> </ul>	\$ 27,100
<b>Total</b>		\$ 10,889,769

## IV. Payment Schedules

This section describes the assumptions for the RFC Project Budget payment schedules for the Vendor Contract and Other Administration Costs.

**Attachment 3:** A detailed 39-month schedule with individual agency cash flow assumptions for both the Vendor Contract and Other Project Administration Costs is found in Attachment 3.

**a. Vendor Contract:** Key payment assumptions for the Vendor Contract are as follows:

- The Vendor Contract is fixed price.
- Relative to payment points, the Contract provides for:
  - **Project Management:** Monthly Project management payments, providing the total value of payments made does not exceed the predetermined payment caps. In the event payment exceeds a cap; the payment will be withheld until such time as it can be released per Contract terms.
  - **Payment Caps:** Two payment caps are in place, i.e. the total payments made cannot exceed: 1) 50% of the total contract value at the Beta Test Acceptance Milestone, and 2) 60% of the total contract value prior to Full System Acceptance at the point where all King County Metro equipment is installed and satisfactorily tested.
  - **Milestone Payments:** Six milestone payments are defined which provide for the successful completion of numerous deliverables. These milestones are:
    1. Schedule Acceptance
    2. Design Acceptance
    3. Beta Test Readiness
    4. Beta Test Acceptance
    5. Equipment Installation Completed & Tested for King County
    6. Full System Acceptance

**b. Other RFC Project Administrative Costs:** The following table describes the anticipated payment assumptions for these costs.

**Attachment 3:** A detailed 39-month schedule with individual agency cash flow assumptions can be found in Attachment 3.

<b>Cost Item</b>	<b>Key Payment Assumptions</b>
<b>Project Management Team</b>	<ul style="list-style-type: none"> <li>• Paid quarterly direct to King County per actual costs incurred</li> </ul>
<b>Regional Payment Funds Management</b>	<ul style="list-style-type: none"> <li>• TBD by Sound Transit (a.k.a. "the Fiscal Agent")</li> </ul>
<b>Regional Technical Consultant</b>	<ul style="list-style-type: none"> <li>• Paid monthly or as invoiced by the consultant. TBD if the Fiscal Agent central payments account will be used to streamline the process</li> <li>• Contract terms are fixed price, not to exceed limits per task</li> </ul>
<b>Sales Tax</b>	<ul style="list-style-type: none"> <li>• Each agency will pay, as applicable costs are incurred, per Vendor Contract payment milestone invoices.</li> </ul>
<b>Contingency Fund</b>	<ul style="list-style-type: none"> <li>• Each agency commits to fund its share of the overall project contingency fund budget and to have those funds available when required per authorized Project Budget changes.</li> <li>• Fund to be accessed only for approved change orders</li> <li>• Every effort will be made to negotiate change order payment terms that are consistent with the established six Contract Payment Milestones.</li> </ul>
<b>Dispute Resolution Board (DRB)</b>	<ul style="list-style-type: none"> <li>• The DRB is convened, at a regular schedule determined by the Joint Board, for Project updates. These costs will be billed to include an hourly fee and travel expense.</li> <li>• The DRB will also be convened on an as needed basis to mediate disputes. These costs will be billed as incurred.</li> </ul>
<b>Intellectual Property Software Escrow Account Fees</b>	<ul style="list-style-type: none"> <li>• The most rigorous level of software verification and updates will be utilized</li> <li>• Payment terms will be per the account provider contract (not yet awarded). It is anticipated this will be a quarterly fee, based on the services provided, to commence with the Design Acceptance Milestone.</li> <li>• TBD if the Fiscal Agent central payments account will be used to streamline the process</li> </ul>
<b>Project Evaluation Consultant</b>	<ul style="list-style-type: none"> <li>• Payment terms will be per the consultant contract (not yet awarded). Most likely to be fixed price, not exceed limits per task, paid monthly, or as invoiced by the consultant.</li> <li>• TBD if the Fiscal Agent central payments account will be used to streamline the process</li> </ul>
<b>Project Marketing</b>	<ul style="list-style-type: none"> <li>• The Marketing Plan, which will detail the services and/or materials to be subject to regional billing, is yet to be developed by the agency marketing staff</li> <li>• Marketing activity is anticipated Pre-Beta Test and at revenue service roll-out</li> <li>• Payment terms will be per the provider contract</li> </ul>
<b>Sound Transit Consultant Fee to Oversee TVM Upgrade</b>	<ul style="list-style-type: none"> <li>• Payment term TBD by Sound Transit</li> </ul>

## V. Project Revenue: Regional Grants, Donation and Appropriation

This section summarizes the grant and other regional revenues awarded to the project, the revenue distribution formula and a sample Federal grant match strategy. The Project has received 12 Federal Grants, a donation from The Boeing Company (via the City of Everett Traffic Mitigation Fund) and an appropriation from the Sound Transit Technology Fund. A summary of these grants and their match requirement is shown in the table below.

**Attachment 4:** A detailed description of the grant revenue shown below and the individual agency shares can be found in Attachment 4.

Regional Project Revenue Summary			
Grant/Source	Match % Requirement	Total Award	Total Match Requirement
<b>Federal Section 5307</b> <i>7 Individual Grants</i>	20%	\$ 9,575,958	\$2,393,990
<b>CMAQ</b> <i>3 Individual Grants</i>	13.5%	\$ 2,686,000	\$ 419,202
<b>ITS Earmarks 5288</b> <i>2 Individual Grants</i>	50%	\$ 4,426,316	\$4,426,316
<b>Boeing Donation</b>	N/A	\$ 500,000	0
<b>ST Technology Fund</b>	N/A	\$ 3,000,000	0
<b>Total</b>		\$20,188,274	\$7,239,508

**Regional Grant Distribution Formula:** Regional grant revenues are distributed to the agencies per the same formula used to determine the regionally shared cost distribution. The table below shows the distribution percentages.

Agency	Share of Regional Costs & Grant Revenues
King County Metro	56.77%
Community Transit	11.90%
Sound Transit	10.96%
Kitsap Transit	6.05%
Washington State Ferries	5.42%
Pierce Transit	8.90%
	100.00%

**Individual Agency Grants:** Agencies may supplement their share of regional grant revenues with grants that they have secured individually for purposes of implementing this project.

**Grant Distribution Strategy:** The following describes the anticipated strategy for accessing regional revenues.

- **Federal Grants:** All federal grants will be distributed to the individual agencies at the time of contract award. It is the individual agency responsibility to complete the appropriate Federal processes to encumber these funds. At the point of contract award, each agency assumes the full grant management responsibility for its funds.
- **Boeing Donation:** The details of the Boeing funds distribution funds are yet to be finalized. Per the original agreement with the City of Everett, the funds were to be paid on achievement of the Beta Test Acceptance and Full System Acceptance Milestones. However, The Boeing Company has recently indicated that it prefers to make the donation to the agencies at the point of contract award.
- **Sound Transit Technology Fund Appropriation:** Sound Transit has indicated that it prefers to provide its appropriation at the point of invoice payment. As described in Section VI "Regional Payment Administrative Procedures", the Fiscal Agent will provide the regional account into which individual agency payments are made, so that the regional partners can issue a single check for vendor or other invoice payment. In order to access its Sound Transit funds, an agency would advise Sound Transit that it will make a payment to the regional account "short" the amount due. The balance of the payment is to be drawn by the Fiscal Agent from the agency share of the Technology Fund appropriation.

**Federal Grant Match Strategy:** For budget planning purposes, the agencies have adopted a grant match strategy which utilizes maximum allowable "grant to grant" match potential, i.e. the use of federal grants to match other grants, prior to utilizing other regional revenues or local funds. However, in actual practice, each agency may use whatever match funding strategy it desires to meet its Federal match and Regional Project payment obligations.

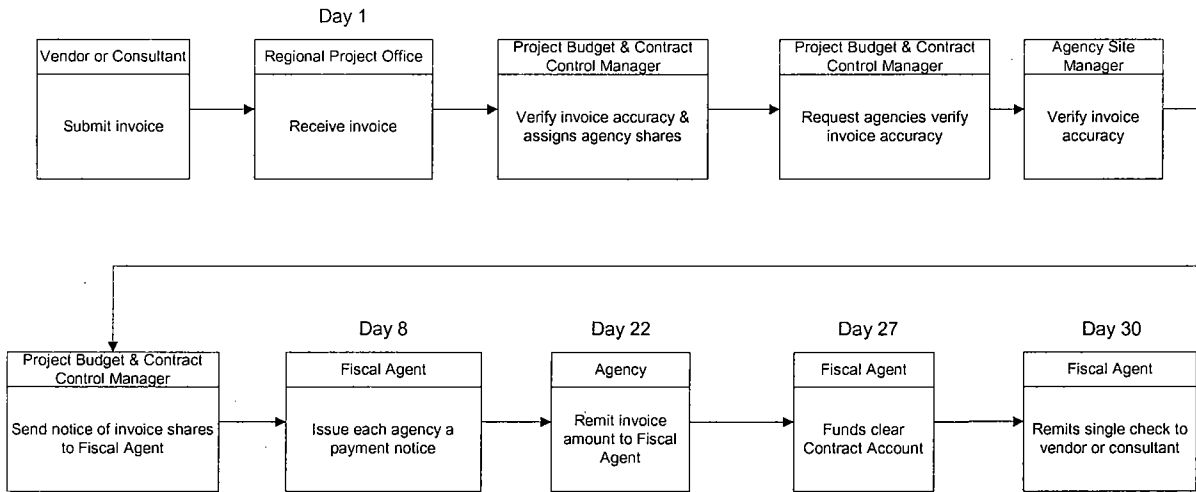
## VI. Regional Invoice Payment Procedures

The administrative process for the payment of most regionally shared invoices will be jointly administered by the Project Team and the Fiscal Agent. The primary staff involved is the Budget and Contract Control Manager and the Fiscal Agent personnel. This joint administration is necessary because of the complexities of paying a single invoice, when the revenue to make that payment is generated from contributions of multiple agencies.

***The Fiscal Agent Central Payments Account:*** Central to this process, is a single regional account that will be established and managed by the Fiscal Agent. Agencies will pay into this account their share of regional invoices and the Fiscal Agent will issue a single check payment on behalf of the region. The Vendor Contract provides for 30-day invoice payment terms. The payment process is described in the bullets and graphic below:

- An invoice is submitted to the Project Team Office
- The Budget and Contract Control Manager (BCCM) verifies the invoice accuracy and assigns agency shares, or full costs, if attributable to a single agency.
- The BCCM forwards the draft invoice to the individual Agency Site Manager to request invoice confirmation and/or corrections.
- Per the agency-verified invoice, the BCCM forwards to the Fiscal Agent the invoice detail per each agency share.
- The Fiscal Agent issues each agency a payment notice
- Each agency remits its payment share to the Fiscal Agent. The payment amount is deposited into the central payments account.
- The Fiscal Agent remits single check payment to the vendor or other invoicing party

# Payment Administrative Procedures





## VII. Individual Agency Internal Costs to Implement the System

Each agency will incur costs, in addition to the shared costs addressed in the RFC Project Budget, which are necessary to ensure internal agency coordination with the regional process and efficient system implementation. These internal costs will vary among the agencies and are contingent upon the complexity of its system implementation, business needs and integration strategies. The primary source of these costs is agency staff labor to support the system design review, contract deliverable acceptance, marketing and customer information and equipment installation process. In order to provide a comprehensive estimate of the project implementation costs, the agencies have adopted consistent cost generation categories and completed a cost estimation exercise.

**Attachment 5:** Individual agency detail on these internal agency costs can be found in Attachment 5.

A summary list of the regionally consistent categories established for planning purposes is shown below.

- Site Manager, i.e. the individual agency Project Manager and central point of contact
- Technical staff labor to review business processes and contract deliverables
- Technical staff labor to develop system interfaces – this category is necessary only for those agencies with custom interface requirements
- Finance staff labor to review business processes and contract deliverables
- Customer Service staff labor to review business processes and contract deliverables
- Legal Counsel, as needed
- Staff training to operate all aspects of the system
- Labor and materials for site preparation for facilities requiring new equipment installation
- Labor for equipment installation
- Marketing staff labor to develop public information and customer “card conversion” plans
- Purchase of a Driver Display Unit “tool kit” – this category is necessary only for those agencies who may wish to develop new custom applications for the Driver Display Unit
- Travel expense for staff to provide oversight during equipment testing and/or to inspect the system operations center
- Communication network fees

## VIII. Regionally Shared Operating Cost Estimates: Operating (Phase V)

This section provides general information on the system operating services currently anticipated for 2006 through 2014. The Joint Board, as part of its work program, will develop the Phase V System Administration Plan. This plan will include at a minimum the regional staff necessary to support system operations oversight and other business details.

**Regional Cost-sharing Formula:** The regional cost-sharing formula for the operating phase of the project has been determined, for planning purposes, by each agency's share of regional ridership projected for the year 2005. This formula will be updated per National Transit Data Base reports prior to commencing full system operations. WSF may adjust ridership projections to include both vehicles and passengers (currently, only passengers are included in its estimates). The updated formula will be applied to, at a minimum, the first year of system operations. At such point as the Joint Board determines the system is operating at "steady state", the cost-sharing formula will be determined by each agencies actual share of smart card transactions processed by the system. The Joint Board will determine the annual schedule by which the cost-sharing formula for the next year will be reviewed and adopted.

Per the preliminary 2005 projected ridership formula described above, the five-agency Operating cost-sharing formula is as follows:

Agency	Share of Regional Costs
King County Metro	71.7%
Sound Transit	7.7%
Community Transit	6.0%
Washington State Ferries	2.8%
Kitsap Transit	2.7%
Pierce Transit	9.2%
	100%

**Regional Operating Services:** The regionally consistent system operation services will be provided by the vendor contract and King County Metro. See Exhibit E for a detailed description of the King County operating services.

<b>Vendor Contract Regional System Operating Services</b>	
1.	Equipment and Software Maintenance
2.	Customer Service
3.	Institutional Program Support
4.	Fare Card Management
5.	Card Procurement (from Manufacturer) and Distribution (to King County)
6.	Clearinghouse Services
7.	Financial Management
8.	Network Management
9.	Third Party Revalue Network Technical Support
<b>King County Metro Regional System Operating Services</b>	
1.	Card Procurement (centralized order processing to the vendor)
2.	Local Card Warehousing and Distribution (to the agencies and accounts)
3.	New Card Order Fulfillment
4.	(TBD) Institutional Account Administrative Support

**Operating Costs:** The following table provides the estimated 10-year total annual operating costs for both the Vendor Contract and King County Metro regional services. The primary factors which determine the operating cost estimates are ridership and the rate at which customers transition from physical cash fare payment to pre-payment via the smart card electronic cash or pass.

**Attachment 6:** Individual agency 10-year operating fixed and variable cost estimates, per each service, can be found in Attachment 6.

<b>Preliminary Estimated Operating Cost Summary</b>		
<b>Agency</b>	<b>% Share</b>	<b>10-year Operating Cost Estimate Total</b>
King County	71.7%	\$ 23,042,362
Sound Transit	7.7%	\$ 2,712,855
Community Transit	6.0%	\$ 2,029,488
Washington Ferries	2.8%	\$ 950,086
Kitsap Transit	2.7%	\$ 942,006
Pierce Transit	9.2%	\$ 3,008,606
<b>Total *</b>	100%	\$ 32,685,403
<i>* Slight variations due to rounding</i>		

## IX. Attachment Summary

The following Attachments can be found in the PDF File "Exhibit C Attachments". Please note that all Attachment pages are legal size. From the Acrobat Reader menu bar, you can check the paper size by selecting 1) file, and then 2) page setup.

<b><u>Attachment No.</u></b>	<b><u>Description</u></b>
1	Vendor Contract Costs
2	Other Regional Project Administration Costs
3	Estimated Payment Cash Flow Assumptions for Vendor Contract and Other RFC Project Administration Costs
4	Grant Revenue Summary and Individual Agency Shares
5	Individual Agency Internal Implementation Cost Estimates
6	Estimated Agency Operating Costs

## EXHIBIT D

### FARE COLLECTION AND CUSTOMER SERVICE PRACTICES

The Agencies acknowledge the need for adoption of certain regional practices that in part will govern the design and operation of the RFC System. The Agencies agree to implement and maintain in effect the following fare collection and customer service practices unless amended by the Joint Board:

1. The Agencies shall accept smart cards as the primary media for pre-payment of fares on the regular transportation service they provide.
2. Each Agency shall continue to set its own fare policies. Current fare policies include flat fares, zone fares and route/quality of service fares.
3. Each Agency agrees to honor on its system and accept its share of revenue reduction resulting from regional ridership incentives approved by the Board, e.g. the stored value "bonus trip" to encourage increased trip frequency, or the stored value "bonus value" to encourage increased amounts of pre-paid fares loaded onto the card.
4. Each Agency shall issue RFC System smart cards, and value thereon, on behalf of all the Agencies, in accordance with a uniform cardholder agreement approved by the Joint Board. Said agreement shall include, but not be limited to, the following terms:
  - a. Following the initial conversion period, cards will be issued to customers who pay a nonrefundable card fee. This card fee will include the cost of the card plus a handling charge to cover the regional and Agency-specific administrative costs associated with card distribution.
  - b. For lost, stolen or damaged cards, the Agencies shall charge a replacement fee for cards equal to the cost of the card and a handling charge to cover the regional and Agency-specific administrative costs associated with card distribution.
  - c. Cards issued through the central fulfillment center, at Agency customer service offices or WSF terminals may be linked or anonymous.
  - d. Anonymous cards will not require personal information to be provided by the cardholder.
  - e. Linked cards will require personal information or a personal identification password to be provided by the cardholder.
  - f. The Agencies will neither replace free of charge nor refund the value on anonymous cards.
  - g. Replacement or refund of a linked card must meet the terms of the cardholder agreement and will require the cardholder to provide personal information or their personal identification password.

- h. Linked fare cards that are lost or stolen, and linked or anonymous cards that malfunction or are damaged shall be replaced at Customer Service Offices while the customer waits.
  - i. Linked fare cards that are reported lost or stolen by telephone, mail, Internet or other remote means shall be replaced by a Customer Service Office or the central fulfillment center.
  - j. Malfunctioning or damaged cards (linked or anonymous) that are turned in by mail shall be replaced by mail. No card replacement fee is required for a malfunctioning (defective) card.
  - k. Institutional account cards reported lost, stolen, malfunctioning or damaged by the institution, shall be replaced and provided either by the central fulfillment center to the institution for distribution to the cardholder.
  - l. All linked fare cards that are reported lost or stolen shall be blocked from further use in the RFC System.
  - m. When a cardholder reports to an agency that his/her linked fare card is lost or stolen, Agencies shall honor the value remaining on the card by transferring this value to a new card.
  - n. Refunds of the fare card balance shall be provided for stored value on linked cards
  - o. Customers requesting stored value refunds will surrender their cards at the time of the refund.
  - p. The maximum amount of stored value that may be loaded onto a card by a customer is \$300.
  - q. The minimum amount of stored value that may be loaded onto a card by a customer is \$5.
  - r. The maximum number of autoloads onto an individual customer's card is 4 per calendar month.
  - s. A request to set up the autoload function for a card requires a customer signature on a formal written contract/agreement.
  - t. Agencies may charge a one-time "set up" fee for establishing autoload for a customer (e.g., \$5).
  - u. Autoload customers may request 3 account changes (new account, new credit card, revised "load" instructions, etc.) at no charge. After that point, the agencies reserve the right to charge an administrative fee to make additional changes.
  - v. Agencies require 10 days written notice from the customer to make an account change or to terminate the autoload function. Written notice may be in the form of e-mail, web-site, or standard mail.
  - w. Cardholder information provided shall not be disclosed by the Agencies except as otherwise required by law.
  - x. Agencies will not re-issue a smart card once a customer has used it.
5. Each Agency, or its Agent, agrees to issue cards and card value, process refund requests, and handle customer inquiries at all agency customer service locations and via telephone. Each Agency, or its agent, shall maintain an adequate inventory of cards to meet customer demand.

6. Except as otherwise specified in the Agreement to which this Exhibit is attached, each Agency shall be the merchant of record for its own cash, check, and credit card transactions and shall bear the risk of fraud for such transactions.
7. The Agencies shall share the risk of bad debt according to a formula approved by the Joint Board.
8. Each Agency shall allocate RFC System-related revenues and liabilities on an agreed upon schedule, and shall bear financial responsibility and liability during the capital and operating phases of the RFC Contract according to formulas approved by the Joint Board.
9. Each Agency shall allow the Contractor to direct fund transfers between their bank account and other Agencies' bank accounts.
10. The Agencies agree that, absent prior approval from the Joint Board allowing otherwise, a bus operator, WSF representative, ST fare inspector, or customer service representative shall be able to reverse a stored value fare transaction payment from a fare card, and restore the transaction amount to the fare card.
11. The Agencies shall comply with the procedures adopted by the Joint Board in order to receive revenue from the Claim Account.
12. Each Agency shall use a uniform agreement for Retail Accounts that has been approved by the Joint Board. If an Agency pays a commission to a Retail Account said commission shall be paid separately and shall not reduce the revenue collected by the retailer and distributed to the Agencies.
13. Requests for Public Information shall be satisfied by the Agencies according to uniform procedures adopted by the Joint Board and in accordance with state law, including any applicable exemptions.
14. The Joint Board shall approve the design of the exterior surfaces of the fare card. The Joint Board must approve any commercial use of unused exterior surfaces on the fare card, and such approval shall be subject to consideration of the impacts that such proposed uses may have on the functionality of the fare card and the value added proposition for the Agencies.

## EXHIBIT E

### KING COUNTY CENTRALIZED SERVICES DESCRIPTION

#### I. New Card Order Fulfillment

##### A. Relationship to the RFC Contract

1. None - at this point, the Contractor will not be providing fulfillment services.

##### B. Scope of Work

1. Provide a single point of new card order fulfillment for all types of sales, except Over-the-Counter.

- a) Receive card orders from RFCS web-site, phone, mail or any agency establishing and/or maintaining an Institutional (subsidy) Account.
- b) Provide Institutional Account system set-up and card issuance.
- c) Provide individual customer account system set-up and card issuance.
- d) Issue each card per the customer's instruction. During the process of "issuance", the card is unblocked, linked to the customer (if requested), assigned to an institution (if for an Institutional Account) and loaded with value.
- e) Either send card(s) to customer using first class mail, priority mail, or arrange for delivery (e.g. very large Institutional Accounts).

2. Receive inventory from and provide monthly inventory reports to Card Procurement staff

3. Produce periodic activity/productivity reports for the Project Board and budget purposes.

4. Act as merchant of record for debit card and credit card sales via Internet, phone or mail.

##### C. Cost Assumptions

1. Each agency maintains its own inventory to provide Over-The-Counter services on-site at its Customer Service Office.

2. Actual costs will depend greatly upon initial card distribution strategy (to be determined), institutional account demographics, and other variables.



3. Estimates for 2005 assume incentives are established to encourage unaffiliated customers to obtain their cards via telephone, mail or Internet.
4. Estimates for 2005 assume aggressive marketing campaign to smaller institutional programs.
5. Estimates for 2005 assume that EDPasses are distributed to a single location rather than to individuals.
6. Cost estimates are based upon ridership and cash conversion assumptions (including RRF) as identified in RFC Project Capital Cost Worksheets Assumption Worksheet No. 3. These data were used to insure that estimates are consistent with other pricing estimates for the project. Actual costs will be used once known.
7. Estimates include costs for marketing materials (information packets, etc.) These costs are based on the preliminary concepts developed by KCM marketing staff, actual costs may differ when the regional plan is established.
8. Cost estimates for orders placed by individuals include:
  - a) First class mail
  - b) New cards: Folder and 4 brochure inserts
  - c) Replacement cards: Card "jacket" and 1 page insert
9. Cost estimates for orders placed by or for institutions include:
  - a) Very large institutions will either pick up their cards or will have cards delivered to them. All other institutional orders will be sent via priority mail with return receipt.
  - b) Card "jacket" and 1 page insert for each card
  - c) New institution: Packet with information on account management
10. Labor costs include Section Overhead and Transit Division Overhead.
11. All costs include a 10% administrative fee to cover costs of managing the service.

## II. Card Procurement and Inventory Functions

### A. Relationship to the RFC Contract

1. KCM will place an order for cards with the Contractor.
2. The Contractor will place an order for cards with the card provider.
3. Card provider will distribute cards to the Contractor.
4. The Contractor will "initialize" cards. This is the electronic action that registers a card in the system. Once a card is initialized, it is an RFCS card, contains application and security keys, may be assigned a fixed category (e.g., Adult, Youth, etc.) and is "blocked".
5. The Contractor will distribute cards to KCM.
6. KCM will confirm to the Contractor that they received the card order.
7. KCM will store cards in inventory and distribute as required (see *Scope of Work* below).

### B. Scope of Work

#### 1. Inventory & Distribution

- a) Provide secure storage space for all card inventory for the region. The standard card stock has no value on the card. The disposable cards will have pre-encoded values, e.g. \$5, \$10, \$20.
- b) Receive card stock from the Contractor and log in using the inventory management system feature that will be added to CARM (Contractor provided).
- c) Confirm inventory receipt with the Concord/Clearinghouse.
- d) Receive and process card orders from the agencies (via email form). Processing card orders includes assembling card stock, packaging card stock for delivery and preparing a transmittal form.
- e) Deliver card order via certified mail or van/driver. Alternately, the delivery may be picked up by the agency at a King County facility.
- f) Agency receiving order confirms inventory received.
- g) Produce periodic activity/productivity reports for Project Board review and budget purposes.

## 2. Card Procurement

- a) Provide a single point of interface to place all card orders with the vendor (Concord).
- b) Process agency invoices for standard card stock orders
- c) Monitor monthly inventory on-hand and delivery reports from the KC RPC and place standard card stock (Adult, Student and RF) orders as required.
- d) Process custom card orders on request:
  - (1) Provide client with regionally approved card design standards (e.g. all cards with transit application, MUST have identifying icon)
  - (2) Provide client with final card design approval
  - (3) Process pre-billing or post-billing for "white plastic" or custom design cards
  - (4) Produce periodic activity/productivity reports for Project Board review and budget purposes.

## C. Cost Assumptions

- 1. Given the lead-time required for card orders (up to 3 months), orders for sufficient regional standard card stock will be placed only once or twice a year. Orders for "white plastic" or custom card orders can be received at any time.
- 2. Each agency's CSO will maintain sufficient inventory for several months of over-the-counter sales activity
- 3. The proposed storage location is the Revenue Processing Center, currently used for Puget Pass inventory warehousing and distribution, at Atlantic Base.
- 4. There will be an increase in capital costs to include modifications required to CARM for inventory management (\$72,319).
- 5. Cost estimates are based upon ridership and cash conversion assumptions (including RRFP) as identified in RFC Project Capital Cost Worksheets Assumption Worksheet No. 3. This data was used to insure that estimates are consistent with other pricing estimates for the project. Actual costs will be used once known.

6. Labor costs include Section Overhead and Transit Division Overhead.
7. All costs include a 10% administrative fee to cover costs of managing the service.

Attachment No. 1  
"Vendor Contract Costs"

**REGIONAL**

1-21-03

**6 Agencies**

w/o ET

**CAPITAL COSTS**

**100.0%**

Regional		Quantities	Unit Cost	
Equipment Purchase:	Qtys./Costs			
On-Board FTP		2,163	\$687	\$1,485,981
Stand-Alone FTP - (ST config.)		26	\$3,626	\$94,276
Stand-Alone FTP - (WSF config.)		65	\$3,354	\$218,010
Portable FTP - (verifier only)		16	\$1,344	\$21,504
Portable FTP - (full function)		65	\$1,809	\$117,585
DDU		2,163	\$1,264	\$2,734,032
Wireless Data Sys-Base		18	\$3,554	\$63,972
Wireless Data Sys-On-Board (non-ruggedized)		2,163	\$601	\$1,299,963
DAC		22	\$13,196	\$290,312
Back Office Computer		6	\$58,755	\$352,530
Integration w/ ST TVM		34	\$2,375	\$80,750
CST		32	\$8,487	\$271,584
Photo ID		10	\$18,227	\$182,270
<b>TOTAL:</b>				<b>\$7,212,769</b>

Equipment Installation:	Quantities	Unit Cost	
On-Board FTP	2,163	\$80	\$173,040
Stand-Alone FTP	91	\$644	\$58,604
Portable FTP	81	\$138	\$11,178
DAC	22	\$1,155	\$25,410
Back Office Computer	6	\$1,051	\$6,306
CST	32	\$1,408	\$45,056
<b>TOTAL:</b>			<b>\$319,594</b>

Fare Cards:	# of cards	Agency share	Unit Cost	
Year 1 - initial purchase	407,443	407,443	\$1.85	\$753,770
<b>TOTAL:</b>				<b>\$753,770</b>

Integration:		Agency Cost	
A. KCM POS w/ CST	\$19,573	100.0%	\$19,573
B. DDU - integration w/ GFI			\$0
C. Back Office integration	\$246,668	100.0%	\$246,668
D. RCU Integration	\$86,500	100.0%	\$86,500
E. CARM - inventory software	\$72,319	100.0%	\$72,319
F. DDU - CT integration	\$86,783	100.0%	\$86,783
G. Portable CST application -KCM	T.B.D.	100.0%	\$0
<b>TOTAL:</b>			<b>\$511,843</b>

Reports:		Agency Cost	
A. Standard Reports	\$563,812	100.0%	\$563,812
<b>TOTAL:</b>			<b>\$563,812</b>

Implementation:		Agency Cost	
<b>Phase 1</b>			
A. Design	\$1,912,153	100.0%	\$1,912,153
B. Development	\$2,697,906	100.0%	\$2,697,906
C. Testing Setup	\$211,429	100.0%	\$211,429
D. Testing	\$914,517	100.0%	\$914,517
E. Beta Testing	\$626,978	100.0%	\$626,978
F. Central System Software			
Configuration	\$3,510,779	100.0%	\$3,510,779
Testing	\$1,170,260	100.0%	\$1,170,260
G. EMC Test	\$74,245	100.0%	\$74,245
H. Environmental Test	\$79,704	100.0%	\$79,704
<b>TOTAL:</b>			<b>\$11,187,971</b>

Phase 2		Agency Cost	
A. Testing	\$940,467	100.0%	\$940,467
B. Acceptance Testing	\$556,502	100.0%	\$556,502
<b>TOTAL:</b>			<b>\$1,496,969</b>

Project Management:		Agency Cost	
Performance Security	\$6,773,639	100.0%	\$6,773,639
<b>TOTAL:</b>			<b>\$6,773,639</b>

Training:		Agency Cost	
Development	\$242,000	100.0%	\$242,000
<b>Conduct</b>			
		Quantities	Unit Cost
1. RFCS Overview		15	\$2,750
2. Systems Operations		15	\$2,750
3. Repair & Maintenance		14	\$5,500
4. Data Management		14	\$2,750
5. Customer Service		13	\$5,500
6. Train-the-Trainer (op/maint)		14	\$6,875
7. Train-the-Trainer (retail)		11	\$6,875
<b>TOTAL:</b>			<b>\$683,375</b>

TVM Revalue System Support Cost:	\$80,750	0.0%	\$0
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**REGIONAL**

**Total Smart Card Capital Costs:**

**\$30,251,975**

**King County Metro**

1/21/03

**6 Agencies**

w/o ET

**CAPITAL COSTS**

**56.77%**

Regional				
Equipment Purchase:	Qtys./Costs	Quantities	Unit Cost	
On-Board FTP		1,397	\$687	\$959,396
Stand-Alone FTP - (ST config.)		0	\$3,626	\$0
Stand-Alone FTP - (WSF config.)		0	\$3,354	\$0
Portable FTP - (verifier only)		0	\$1,344	\$0
Portable FTP - (full function)		50	\$1,809	\$90,450
DDU		1,397	\$1,264	\$1,765,176
Wireless Data Sys-Base		7	\$3,554	\$24,878
Wireless Data Sys-On-Board (non-ruggedized)		1,397	\$601	\$839,297
DAC		7	\$13,196	\$92,372
Back Office Computer		1	\$58,755	\$58,755
Integration w/ ST TVM		0	\$2,375	\$0
CST		22	\$8,487	\$186,714
Photo ID		3	\$18,227	\$54,681
<b>TOTAL:</b>				<b>\$4,071,718</b>

Equipment Installation:	Quantities	Unit Cost	
On-Board FTP	1,397	\$80	\$111,720
Stand-Alone FTP	0	\$644	\$0
Portable FTP	50	\$138	\$6,900
DAC	7	\$1,155	\$8,085
Back Office Computer	1	\$1,051	\$1,051
CST	22	\$1,408	\$30,976
<b>TOTAL:</b>			<b>\$158,732</b>

Fare Cards:	# of cards	Agency share	Unit Cost	
Year 1- initial purchase	407,443	231,306	\$1.85	\$427,915
<b>TOTAL:</b>				<b>\$427,915</b>

Integration:			Agency Cost	
A. KCM POS w/ CST	\$19,573	100.0%	\$19,573	\$19,573
B. DDU - integration w/ GFI			\$0	\$0
C. Back Office integration	\$246,668	56.77%	\$140,033	\$140,033
D. RCU Integration	\$86,500	100.0%	\$86,500	\$86,500
E. CARM - inventory software	\$72,319	56.77%	\$41,055	\$41,055
F. DDU - CT integration (option)	\$86,783	0.0%	\$0	\$0
G. Portable CST application -KCM	T.B.D.	100.0%	\$0	\$0
<b>TOTAL:</b>				<b>\$287,162</b>

Reports:			Agency Cost	
A. Standard Reports	\$563,812	56.77%	\$320,076	\$320,076
<b>TOTAL:</b>				<b>\$320,076</b>

Implementation:			Agency Cost	
<b>Phase 1</b>				
A. Design	\$1,912,153	56.77%	\$1,085,529	\$1,085,529
B. Development	\$2,697,906	56.77%	\$1,531,601	\$1,531,601
C. Testing Setup	\$211,429	56.77%	\$120,028	\$120,028
D. Testing	\$914,517	56.77%	\$519,171	\$519,171
E. Beta Testing	\$626,978	56.77%	\$355,935	\$355,935
F. Central System Software				
Configuration	\$3,510,779	56.77%	\$1,993,069	\$1,993,069
Testing	\$1,170,260	56.77%	\$664,357	\$664,357
G. EMC Test	\$74,245	56.77%	\$42,149	\$42,149
H. Environmental Test	\$79,704	56.77%	\$45,248	\$45,248
<b>TOTAL:</b>				<b>\$6,357,088</b>

Phase 2			Agency Cost	
A. Testing	\$940,467	56.77%	\$533,903	\$533,903
B. Acceptance Testing	\$556,502	56.77%	\$315,926	\$315,926
<b>TOTAL:</b>				<b>\$849,829</b>

Project Management:			Agency Cost	
Performance Security	\$6,773,639	56.77%	\$3,845,395	\$3,845,395
	\$738,233	56.77%	\$419,095	\$419,095
<b>TOTAL:</b>				<b>\$4,264,490</b>

Training:			Agency Cost	
Development	\$242,000	56.77%	\$137,383	\$137,383
<b>Conduct</b>				
		Quantities	Unit Cost	
1. RFCS Overview		5	\$2,750	\$13,750
2. Systems Operations		5	\$2,750	\$13,750
3. Repair & Maintenance		5	\$5,500	\$27,500
4. Data Management		5	\$2,750	\$13,750
5. Customer Service		5	\$5,500	\$27,500
6. Train-the-Trainer (op/maint)		5	\$6,875	\$34,375
7. Train-the-Trainer (retail)		5	\$6,875	\$34,375
<b>TOTAL:</b>				<b>\$302,383</b>

<b>TVM Revalue System Support Cost:</b>	\$80,750	56.77%	\$45,842	\$45,842
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**King County Metro Total Smart Card Capital Costs: \$17,085,236**

**Community Transit**

1-21-03

**6 Agencies**

w/o ET

**CAPITAL COSTS**

**11.90%**

Regional		Quantities	Unit Cost	
Equipment Purchase:	Qty's./Costs			
On-Board FTP		290	\$687	\$199,093
Stand-Alone FTP - (ST config.)		0	\$3,626	\$0
Stand-Alone FTP - (WSF config.)		0	\$3,354	\$0
Portable FTP - (verifier only)		0	\$1,344	\$0
Portable FTP - (full function)		0	\$1,809	\$0
DDU		290	\$1,264	\$366,307
Wireless Data Sys-Base		2	\$3,554	\$7,108
Wireless Data Sys-On-Board (non-ruggedized)		290	\$601	\$174,170
DAC		2	\$13,196	\$26,392
Back Office Computer		1	\$58,755	\$58,755
Integration w/ ST TVM		0	\$2,375	\$0
CST		1	\$8,487	\$8,487
Photo ID		1	\$18,227	\$18,227
<b>TOTAL:</b>				<b>\$858,539</b>

Equipment Installation:	Quantities	Unit Cost	
On-Board FTP	290	\$80	\$23,184
Stand-Alone FTP	0	\$644	\$0
Portable FTP	0	\$138	\$0
DAC	2	\$1,155	\$2,310
Back Office Computer	1	\$1,051	\$1,051
CST	1	\$1,408	\$1,408
<b>TOTAL:</b>			<b>\$27,953</b>

Fare Cards:	# of cards	Agency share	Unit Cost	
Year 1 - initial purchase	407,443	48,486	\$1.85	\$89,699
<b>TOTAL:</b>				<b>\$89,699</b>

Integration:		Agency Cost	
A. KCM POS w/ CST	\$19,573	0.00%	\$0
B. DDU - integration w/ GFI			\$0
C. Back Office integration	\$246,668	11.90%	\$29,353
D. RCU Integration	\$86,500	0.00%	\$0
E. CARM - inventory software	\$72,319	11.90%	\$8,606
F. DDU - CT integration	\$86,783	100.00%	\$86,783
G. Portable CST application -KCM	T.B.D.	0.00%	\$0
<b>TOTAL:</b>			<b>\$124,742</b>

Reports:		Agency Cost	
A. Standard Reports	\$563,812	11.90%	\$67,094
<b>TOTAL:</b>			<b>\$67,094</b>

Implementation:		Agency Cost	
<b>Phase 1</b>			
A. Design	\$1,912,153	11.90%	\$227,546
B. Development	\$2,697,906	11.90%	\$321,051
C. Testing Setup	\$211,429	11.90%	\$25,160
D. Testing	\$914,517	11.90%	\$108,828
E. Beta Testing	\$626,978	11.90%	\$74,610
F. Central System Software			
Configuration	\$3,510,779	11.90%	\$417,783
Testing	\$1,170,260	11.90%	\$139,261
G. EMC Test	\$74,245	11.90%	\$8,835
H. Environmental Test	\$79,704	11.90%	\$9,485
<b>TOTAL:</b>			<b>\$1,332,559</b>

Phase 2		Agency Cost	
A. Testing	\$940,467	11.90%	\$111,916
B. Acceptance Testing	\$556,502	11.90%	\$66,224
<b>TOTAL:</b>			<b>\$178,139</b>

Project Management:		Agency Cost	
Performance Security	\$6,773,639	11.90%	\$806,063
	\$738,233	11.90%	\$87,850
<b>TOTAL:</b>			<b>\$893,913</b>

Training:		Agency Cost	
Development	\$242,000	11.90%	\$28,798
<b>Conduct</b>			
		Quantities	Unit Cost
1. RFCS Overview		2	\$2,750
2. Systems Operations		2	\$2,750
3. Repair & Maintenance		2	\$5,500
4. Data Management		2	\$2,750
5. Customer Service		2	\$5,500
6. Train-the-Trainer (op/maint)		2	\$6,875
7. Train-the-Trainer (retail)		2	\$6,875
<b>TOTAL:</b>			<b>\$94,798</b>

<b>TVM Revalue System Support Cost:</b>	\$80,750	11.90%	\$9,609
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**Community Transit Total Smart Card Capital Costs: \$3,677,044**



**SOUND TRANSIT**

1-21-03

**6 Agencies**

w/o ET

**CAPITAL COSTS**

**10.96%**

Equipment Purchase:	Regional		Unit Cost	
	Qtys./Costs	Quantities		
On-Board FTP		198	\$687	\$136,335
Stand-Alone FTP - (ST config.)		26	\$3,626	\$94,276
Stand-Alone FTP - (WSF config.)		0	\$3,354	\$0
Portable FTP - (verifier only)		16	\$1,344	\$21,504
Portable FTP - (full function)		0	\$1,809	\$0
DDU		198	\$1,264	\$250,841
Wireless Data Sys-Base		4	\$3,554	\$14,216
Wireless Data Sys-On-Board (non-ruggedized)		198	\$601	\$119,288
DAC		4	\$13,196	\$52,784
Back Office Computer		1	\$58,755	\$58,755
Integration w/ ST TVM		34	\$2,375	\$80,750
CST		1	\$8,487	\$8,487
Photo ID		1	\$18,227	\$18,227
<b>TOTAL:</b>				<b>\$855,443</b>

Equipment Installation:	Quantities	Unit Cost	
On-Board FTP	198	\$80	\$15,876
Stand-Alone FTP	26	\$644	\$16,744
Portable FTP	16	\$138	\$2,208
DAC	4	\$1,155	\$4,620
Back Office Computer	1	\$1,051	\$1,051
CST	1	\$1,408	\$1,408
<b>TOTAL:</b>			<b>\$41,907</b>

Fare Cards:	10.96%		Unit Cost	
	# of cards	Agency share		
Year 1 - initial purchase	407,443	44,656	\$1.85	\$82,613
<b>TOTAL:</b>				<b>\$82,613</b>

Integration:			Agency Cost	
A. KCM POS w/ CST	\$19,573	0.00%	\$0	\$0
B. DDU - integration w/ GFI			\$0	\$0
C. Back Office integration	\$246,668	10.96%	\$27,035	\$27,035
D. RCU integration	\$86,500	0.00%	\$0	\$0
E. CARM - inventory software	\$72,319	10.96%	\$7,926	\$7,926
F. DDU - CT integration	\$86,783	0.00%	\$0	\$0
G. Portable CST application -KCM	T.B.D.	0.00%	\$0	\$0
<b>TOTAL:</b>				<b>\$34,961</b>

Reports:			Agency Cost	
A. Standard Reports	\$563,812	10.96%	\$61,794	\$61,794
<b>TOTAL:</b>				<b>\$61,794</b>

Implementation:			Agency Cost	
<b>Phase 1</b>				
A. Design	\$1,912,153	10.96%	\$209,572	\$209,572
B. Development	\$2,697,906	10.96%	\$295,690	\$295,690
C. Testing Setup	\$211,429	10.96%	\$23,173	\$23,173
D. Testing	\$914,517	10.96%	\$100,231	\$100,231
E. Beta Testing	\$626,978	10.96%	\$68,717	\$68,717
F. Central System Software				
Configuration	\$3,510,779	10.96%	\$384,781	\$384,781
Testing	\$1,170,260	10.96%	\$128,260	\$128,260
G. EMC Test	\$74,245	10.96%	\$8,137	\$8,137
H. Environmental Test	\$79,704	10.96%	\$8,736	\$8,736
<b>TOTAL:</b>				<b>\$1,227,298</b>

Phase 2			Agency Cost	
A. Testing	\$940,467	10.96%	\$103,075	\$103,075
B. Acceptance Testing	\$556,502	10.96%	\$60,993	\$60,993
<b>TOTAL:</b>				<b>\$164,068</b>

Project Management:			Agency Cost	
Performance Security	\$6,773,639	10.96%	\$742,391	\$742,391
	\$738,233	10.96%	\$80,910	\$80,910
<b>TOTAL:</b>				<b>\$823,301</b>

Training:			Agency Cost	
Development	\$242,000	10.96%	\$26,523	\$26,523
<b>Conduct</b>				
		Quantities	Unit Cost	
1. RFCS Overview		1	\$2,750	\$2,750
2. Systems Operations		1	\$2,750	\$2,750
3. Repair & Maintenance		1	\$5,500	\$5,500
4. Data Management		1	\$2,750	\$2,750
5. Customer Service		1	\$5,500	\$5,500
6. Train-the-Trainer (op/maint)		1	\$6,875	\$6,875
7. Train-the-Trainer (retail)		1	\$6,875	\$6,875
<b>TOTAL:</b>				<b>\$59,323</b>

<b>TVM Revalue System Support Credit:</b>	\$80,750	-89.04%	(\$71,900)	(\$71,900)
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**SOUND TRANSIT Total Smart Card Capital Costs: \$3,279,008**

**Kitsap Transit**

1-21-03

**6 Agencies**

w/o ET

**CAPITAL COSTS**

**6.05%**

Regional				
Equipment Purchase:	Qtys./Costs	Quantities	Unit Cost	
On-Board FTP		106	\$687	\$72,856
Stand-Alone FTP - (ST config.)		0	\$3,626	\$0
Stand-Alone FTP - (WSF config.)		3	\$3,354	\$10,062
Portable FTP - (verifier only)		0	\$1,344	\$0
Portable FTP - (full function)		0	\$1,809	\$0
DDU		106	\$1,264	\$134,047
Wireless Data Sys-Base		4	\$3,554	\$14,216
Wireless Data Sys-On-Board (non-ruggedized)		106	\$601	\$63,736
DAC		4	\$13,196	\$52,784
Back Office Computer		1	\$58,755	\$58,755
Integration w/ ST TVM		0	\$2,375	\$0
CST		1	\$8,487	\$8,487
Photo ID		1	\$18,227	\$18,227
<b>TOTAL:</b>				<b>\$433,171</b>

Equipment Installation:	Quantities	Unit Cost	
On-Board FTP	106	\$80	\$8,484
Stand-Alone FTP	3	\$644	\$1,932
Portable FTP	0	\$138	\$0
DAC	4	\$1,155	\$4,620
Back Office Computer	1	\$1,051	\$1,051
CST	1	\$1,408	\$1,408
<b>TOTAL:</b>			<b>\$17,495</b>

Fare Cards:	# of cards	Agency share	Unit Cost	
Year 1- initial purchase	407,443	24,650	\$1.85	\$45,603
<b>TOTAL:</b>				<b>\$45,603</b>

Integration:			Agency Cost	
A. KCM POS w/ CST	\$19,573	0.00%	\$0	\$0
B. DDU - integration w/ GFI			\$0	\$0
C. Back Office integration	\$246,668	6.05%	\$14,923	\$14,923
D. RCU Integration	\$86,500	0.00%	\$0	\$0
E. CARM - inventory software	\$72,319	6.05%	\$4,375	\$4,375
F. DDU - CT integration (option)	\$86,783	0.00%	\$0	\$0
G. Portable CST application -KCM	T.B.D.	0.00%	\$0	\$0
<b>TOTAL:</b>				<b>\$19,298</b>

Reports:			Agency Cost	
A. Standard Reports	\$563,812	6.05%	\$34,111	\$34,111
<b>TOTAL:</b>				<b>\$34,111</b>

Implementation:			Agency Cost	
<b>Phase 1</b>				
A. Design	\$1,912,153	6.05%	\$115,685	\$115,685
B. Development	\$2,697,906	6.05%	\$163,223	\$163,223
C. Testing Setup	\$211,429	6.05%	\$12,791	\$12,791
D. Testing	\$914,517	6.05%	\$55,328	\$55,328
E. Beta Testing	\$626,978	6.05%	\$37,932	\$37,932
F. Central System Software				
Configuration	\$3,510,779	6.05%	\$212,402	\$212,402
Testing	\$1,170,260	6.05%	\$70,801	\$70,801
G. EMC Test	\$74,245	6.05%	\$4,492	\$4,492
H. Environmental Test	\$79,704	6.05%	\$4,822	\$4,822
<b>TOTAL:</b>				<b>\$677,477</b>

Phase 2			Agency Cost	
A. Testing	\$940,467	6.05%	\$56,898	\$56,898
B. Acceptance Testing	\$556,502	6.05%	\$33,668	\$33,668
<b>TOTAL:</b>				<b>\$90,567</b>

Project Management:			Agency Cost	
Performance Security	\$6,773,639	6.05%	\$409,805	\$409,805
	\$738,233	6.05%	\$44,663	\$44,663
<b>TOTAL:</b>				<b>\$454,468</b>

Training:			Agency Cost	
Development	\$242,000	6.05%	\$14,641	\$14,641
Conduct		Quantities	Unit Cost	
1. RFCS Overview		2	\$2,750	\$5,500
2. Systems Operations		2	\$2,750	\$5,500
3. Repair & Maintenance		2	\$5,500	\$11,000
4. Data Management		2	\$2,750	\$5,500
5. Customer Service		2	\$5,500	\$11,000
6. Train-the-Trainer (op/maint)		2	\$6,875	\$13,750
7. Train-the-Trainer (retail)		2	\$6,875	\$13,750
<b>TOTAL:</b>				<b>\$80,641</b>

<b>TVM Revalue System Support Cost:</b>	\$80,750	6.1%	\$4,885	\$4,885
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<b>Kitsap Transit</b>	<b>Total Smart Card Capital Costs:</b>			<b>\$1,857,717</b>
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WSF

1-21-03

6 Agencies

w/o ET

**CAPITAL COSTS**

5.42%

Regional		Quantities	Unit Cost	
Equipment Purchase:	Qtys./Costs			
On-Board FTP		0	\$687	\$0
Stand-Alone FTP - (ST config.)		0	\$3,626	\$0
Stand-Alone FTP - (WSF config.)		62	\$3,354	\$207,948
Portable FTP - (verifier only)		0	\$1,344	\$0
Portable FTP - (full function)		15	\$1,809	\$27,135
DDU		0	\$1,264	\$0
Wireless Data Sys-Base		0	\$3,554	\$0
Wireless Data Sys-On-Board (non-ruggedized)		0	\$601	\$0
DAC		4	\$13,196	\$52,784
Back Office Computer		1	\$58,755	\$58,755
Integration w/ ST TVM		0	\$2,375	\$0
CST		1	\$8,487	\$8,487
Photo ID		0	\$18,227	\$0
<b>TOTAL:</b>				<b>\$355,108</b>

Equipment Installation:	Quantities	Unit Cost	
On-Board FTP	0	\$80	\$0
Stand-Alone FTP	62	\$644	\$39,928
Portable FTP	15	\$138	\$2,070
DAC	4	\$1,155	\$4,620
Back Office Computer	1	\$1,051	\$1,051
CST	1	\$1,408	\$1,408
<b>TOTAL:</b>			<b>\$49,077</b>

Fare Cards:	# of cards	Agency share	Unit Cost	
Year 1- initial purchase	407,443	22,083	\$1.85	\$40,854
<b>TOTAL:</b>				<b>\$40,854</b>

Integration:			Agency Cost	
A. KCM POS w/ CST	\$19,573	0.00%	\$0	\$0
B. DDU - integration w/ GFI			\$0	\$0
C. Back Office integration	\$246,668	5.42%	\$13,369	\$13,369
D. RCU Integration	\$86,500	0.00%	\$0	\$0
E. CARM - inventory software	\$72,319	5.42%	\$3,920	\$3,920
F. DDU - CT integration	\$86,783	0.00%	\$0	\$0
G. Portable CST application -KCM	T.B.D.	0.00%	\$0	\$0
<b>TOTAL:</b>				<b>\$17,289</b>

Reports:			Agency Cost	
A. Standard Reports	\$563,812	5.42%	\$30,559	\$30,559
<b>TOTAL:</b>				<b>\$30,559</b>

Implementation:			Agency Cost	
<b>Phase 1</b>				
A. Design	\$1,912,153	5.42%	\$103,639	\$103,639
B. Development	\$2,697,906	5.42%	\$146,227	\$146,227
C. Testing Setup	\$211,429	5.42%	\$11,459	\$11,459
D. Testing	\$914,517	5.42%	\$49,567	\$49,567
E. Beta Testing	\$626,978	5.42%	\$33,982	\$33,982
F. Central System Software				
Configuration	\$3,510,779	5.42%	\$190,284	\$190,284
Testing	\$1,170,260	5.42%	\$63,428	\$63,428
G. EMC Test	\$74,245	5.42%	\$4,024	\$4,024
H. Environmental Test	\$79,704	5.42%	\$4,320	\$4,320
<b>TOTAL:</b>				<b>\$606,930</b>

Phase 2			Agency Cost	
A. Testing	\$940,467	5.42%	\$50,973	\$50,973
B. Acceptance Testing	\$556,502	5.42%	\$30,162	\$30,162
<b>TOTAL:</b>				<b>\$81,136</b>

Project Management:			Agency Cost	
	\$6,773,639	5.42%	\$367,131	\$367,131
Performance Security	\$738,233	5.42%	\$40,012	\$40,012
<b>TOTAL:</b>				<b>\$407,143</b>

Training:			Agency Cost	
Development	\$242,000	5.42%	\$13,116	\$13,116
<b>Conduct</b>				
		Quantities	Unit Cost	
1. RFCS Overview		2	\$2,750	\$5,500
2. Systems Operations		2	\$2,750	\$5,500
3. Repair & Maintenance		2	\$5,500	\$11,000
4. Data Management		2	\$2,750	\$5,500
5. Customer Service		2	\$5,500	\$11,000
6. Train-the-Trainer (op/maint)		3	\$6,875	\$20,625
7. Train-the-Trainer (retail)		0	\$6,875	\$0
<b>TOTAL:</b>				<b>\$72,241</b>

TVM Revalue System Support Cost:	\$80,750	5.42%	\$4,377	\$4,377
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WSF

Total Smart Card Capital Costs:

\$1,664,715

**Pierce Transit**

1-21-03

**6 Agencies**

w/o ET

**CAPITAL COSTS**

**8.90%**

Regional		Quantities	Unit Cost	
Equipment Purchase:	Qtys./Costs			
On-Board FTP		172	\$687	\$118,301
Stand-Alone FTP - (ST config.)		0	\$3,626	\$0
Stand-Alone FTP - (WSF config.)		0	\$3,354	\$0
Portable FTP - (verifier only)		0	\$1,344	\$0
Portable FTP - (full function)		0	\$1,809	\$0
DDU		172	\$1,264	\$217,661
Wireless Data Sys-Base		1	\$3,554	\$3,554
Wireless Data Sys-On-Board (non-ruggedized)		172	\$601	\$103,492
DAC		1	\$13,196	\$13,196
Back Office Computer		1	\$58,755	\$58,755
Integration w/ ST TVM		0	\$2,375	\$0
CST		6	\$8,487	\$50,922
Photo ID		4	\$18,227	\$72,908
<b>TOTAL:</b>				<b>\$638,739</b>

Equipment Installation:	Quantities	Unit Cost	
On-Board FTP	172	\$80	\$13,776
Stand-Alone FTP	0	\$644	\$0
Portable FTP	0	\$138	\$0
DAC	1	\$1,155	\$1,155
Back Office Computer	1	\$1,051	\$1,051
CST	6	\$1,408	\$8,448
<b>TOTAL:</b>			<b>\$24,430</b>

Fare Cards:	# of cards	Agency share	Unit Cost	
Year 1- initial purchase	407,443	36,262	\$1.85	\$67,086
<b>TOTAL:</b>				<b>\$67,086</b>

Integration:		Agency Cost	
A. KCM POS w/ CST	\$19,573	0.00%	\$0
B. DDU - integration w/ GFI			\$0
C. Back Office integration	\$246,668	8.90%	\$21,953
D. RCU Integration	\$86,500	0.00%	\$0
E. CARM - inventory software	\$72,319	8.90%	\$6,436
F. DDU - CT integration	\$86,783	0.00%	\$0
G. Portable CST application -KCM	T.B.D.	0.00%	\$0
<b>TOTAL:</b>			<b>\$28,390</b>

Reports:		Agency Cost	
A. Standard Reports	\$563,812	8.90%	\$50,179
<b>TOTAL:</b>			<b>\$50,179</b>

Implementation:		Agency Cost	
<b>Phase 1</b>			
A. Design	\$1,912,153	8.90%	\$170,182
B. Development	\$2,697,906	8.90%	\$240,114
C. Testing Setup	\$211,429	8.90%	\$18,817
D. Testing	\$914,517	8.90%	\$81,392
E. Beta Testing	\$626,978	8.90%	\$55,801
F. Central System Software			
Configuration	\$3,510,779	8.90%	\$312,459
Testing	\$1,170,260	8.90%	\$104,153
G. EMC Test	\$74,245	8.90%	\$6,608
H. Environmental Test	\$79,704	8.90%	\$7,094
<b>TOTAL:</b>			<b>\$996,619</b>

Phase 2		Agency Cost	
A. Testing	\$940,467	8.90%	\$83,702
B. Acceptance Testing	\$556,502	8.90%	\$49,529
<b>TOTAL:</b>			<b>\$133,231</b>

Project Management:		Agency Cost	
	\$6,773,639	8.90%	\$602,854
Performance Security	\$738,233	8.90%	\$65,703
<b>TOTAL:</b>			<b>\$668,557</b>

Training:		Agency Cost	
Development	\$242,000	8.90%	\$21,538
<b>Conduct</b>			
		Quantities	Unit Cost
1. RFCS Overview		3	\$2,750
2. Systems Operations		3	\$2,750
3. Repair & Maintenance		2	\$5,500
4. Data Management		2	\$2,750
5. Customer Service		1	\$5,500
6. Train-the-Trainer (op/maint)		1	\$6,875
7. Train-the-Trainer (retail)		1	\$6,875
<b>TOTAL:</b>			<b>\$73,788</b>

<b>TVM Revalue System Support Cost:</b>	\$80,750	8.90%	\$7,187
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**Pierce Transit Total Smart Card Capital Costs: \$2,688,255**

Attachment No. 2

“Regional Project Budget Cost  
Summary”

PRELIMINARY RFC REGIONAL PROJECT BUDGET COST SUMMARY - 6 AGENCIES

Cost Item & Assumptions	Total Regional Cost	Everett Transit	WSF	Kitsap Transit	Pierce Transit	Sound Transit	Community Transit	King County Metro
	100.0%	Formula - % shares based on the total cost of each agency's equipment and installation						
		5.42%	6.05%	8.90%	10.96%	11.90%	56.77%	

<b>1. Vendor Contract</b>	\$30,251,975	\$1,664,715	\$1,857,717	\$2,688,255	\$3,279,008	\$3,677,044	\$17,085,236
<b>2. Other Shared Costs</b>							
2.a Regional Project Management (4 FTEs)	\$1,029,000	\$55,772	\$62,255	\$91,581	\$112,778	\$122,451	\$584,163
2.b Sound Transit Funds Management	t.b.d.						
2.c Regional Technical Consultant	\$525,000	\$28,455	\$31,763	\$46,725	\$57,540	\$62,475	\$298,043
2.d Sales Tax (100% vendor cost @ 8.8%)	\$2,662,174	\$146,495	\$163,479	\$236,566	\$288,553	\$323,580	\$1,503,501
2.e Contingency Fund (20% of contract capital value)	\$6,050,395	\$332,943	\$371,543	\$537,651	\$655,802	\$735,409	\$3,417,047
2.f Dispute Resolution Board	\$122,100	\$6,618	\$7,387	\$10,867	\$13,382	\$14,530	\$69,316
2.g Software Escrow Account	\$99,000	\$5,366	\$5,990	\$8,811	\$10,850	\$11,781	\$56,202
2.h Project Evaluation	\$75,000	\$4,065	\$4,538	\$6,675	\$8,220	\$8,925	\$42,578
2.i Project Marketing	\$300,000	\$16,260	\$18,150	\$26,700	\$32,880	\$35,700	\$170,310
2.j Sound Transit Consultant fee to oversee TVM upgrade	\$27,100	\$1,469	\$1,640	\$2,412	\$2,970	\$3,225	\$15,385
<b>Subtotal:</b>	<b>\$10,889,769</b>	<b>\$597,442</b>	<b>\$666,743</b>	<b>\$967,988</b>	<b>\$1,182,975</b>	<b>\$1,318,075</b>	<b>\$6,156,544</b>

**TOTAL EST. CAPITAL COST: \$41,141,744 \$2,262,157 \$2,524,460 \$3,656,243 \$4,461,983 \$4,995,119 \$23,241,780**

Note:  
 2.d Components of the vendor contract may be exempt from sales tax. However the agencies have not yet reached concurrence on sales tax applicability.  
 2.g Software escrow estimate to be confirmed upon execution of the escrow services contract.  
 2.h & 2.i Placeholder estimates pending development of each plan.

## Attachment No. 3

### **“Estimated Payment Cash Flow Assumptions for Vendor Contract and Other Regional Project Administrative Costs”**

Note: Each Agency's report is two (2) pages in length. Page 1 contains vendor payments while page 2 contains other project administrative payments and the overall summary.

# REGIONAL 6 agencies

## RFCS SYSTEM IMPLEMENTATION - VENDOR PAYMENT SCHEDULE

Year	Month	Project Mgmt.	Perf. Security	Implementation		Integration & Reporting	Equipment	Installation	Fare Cards	TVM Cost/Credit	Vendor Costs		Vendor Payments	
				Phase 1	Phase 2						Subtotal	Cumulative Total	Monthly Payments	Cumulative Payments
Year 1	Month 1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Month 2	614,066	0	1,118,797	0	107,566					1,227,363	1,227,363	1,227,363	1,227,363
	Month 3	614,066	13,333								627,399	1,854,762	1,854,762	1,854,762
	Month 4	614,066	13,333								627,399	2,482,161	2,482,161	2,482,161
	Month 5	173,335	13,333								186,668	3,109,560	3,109,560	3,109,560
	Month 6	173,335	13,333								186,668	3,296,228	3,296,228	3,296,228
	Month 7	173,335	13,333								186,668	3,482,896	3,482,896	3,482,896
	Month 8	177,167	13,333								186,668	3,669,564	3,669,564	3,669,564
	Month 9	177,167	13,333								190,500	3,860,064	3,860,064	3,860,064
	Month 10	177,167	13,333								190,500	4,050,564	4,050,564	4,050,564
	Month 11	169,502	13,333								190,500	4,241,064	4,241,064	4,241,064
	Month 12	169,502	13,333								182,835	4,423,899	4,423,899	4,423,899
Year 2	Month 13	169,502	13,333								182,835	4,606,734	4,606,734	4,606,734
	Month 14	131,178	13,333	1,575,696		161,348					182,835	4,789,569	4,789,569	4,789,569
	Month 15	131,178	13,333	1,575,696		161,348					1,985,555	6,775,124	6,775,124	6,775,124
	Month 16	131,178	13,333								144,511	6,919,635	6,919,635	6,919,635
	Month 17	127,346	13,333								144,511	7,064,146	7,064,146	7,064,146
	Month 18	127,346	13,333								140,679	7,204,825	7,204,825	7,204,825
	Month 19	127,346	13,333								140,679	7,345,504	7,345,504	7,345,504
	Month 20	127,346	13,333								140,679	7,486,183	7,486,183	7,486,183
	Month 21	127,346	15,828	2,239,594		215,131					2,597,899	10,084,082	10,084,082	10,084,082
	Month 22	127,346	15,828								143,174	10,227,256	10,227,256	10,227,256
	Month 23	123,513	15,828	2,239,594		215,131	1,430,026	58,776	18,500		143,174	10,370,430	10,370,430	10,370,430
	Month 24	123,513	15,828	2,239,594		215,131	1,430,026	58,776	18,500		4,376,367	14,746,797	14,746,797	14,746,797
Year 3	Month 25	123,513	18,328								141,841	14,888,638	14,888,638	14,888,638
	Month 26	123,513	18,328								141,841	15,030,479	15,030,479	15,030,479
	Month 27	127,346	18,328								145,674	15,176,153	15,176,153	15,176,153
	Month 28	127,346	18,328								145,674	15,321,827	15,321,827	15,321,827
	Month 29	129,262	18,328								145,674	15,467,501	15,467,501	15,467,501
	Month 30	129,262	18,328								147,590	15,615,091	15,615,091	15,615,091
	Month 31	129,262	18,328								147,590	15,762,681	15,762,681	15,762,681
	Month 32	160,742	18,328				3,601,357	142,510			147,590	15,910,271	15,910,271	15,910,271
	Month 33	160,742	18,328								3,922,937	19,833,208	19,833,208	19,833,208
	Month 34	160,742	18,328											
	Month 35	160,742	18,328											
	Month 36	160,742	18,328											
Year 4	Month 37	160,742	18,328											
	Month 38	160,742	18,328											
	Month 39	109,004	18,328	3,915,290	1,496,969	376,479	408,376	1,183,008	765,270		9,865,405	30,009,663	30,009,663	30,009,663

**TOTAL COSTS:** 6,773,639 738,233 11,197,971 1,496,969 1,075,655 242,000 441,375 7,212,769 319,584 753,770 0 30,251,975

Revenue Service Commences





KCM

6 agencies

RFCS SYSTEM IMPLEMENTATION - VENDOR PAYMENT SCHEDULE

1-21-03

Year	Month	Project Mgmt.	Perf. Security	Implementation		Integration & Reporting	Training		Equipment	Installation	Fare Cards	T/M Cost/Credit	Vendor Costs		Vendor Payments	
				Phase 1	Phase 2		Development	Classes					Subtotal	Cumulative Total	Monthly Payments	Cumulative Payments
Year 1	Month 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Month 2	348,605	7,569	835,769	60,724	0	0	0	0	0	0	0	896,433	896,433	896,433	
1 Quarter	Month 3	348,605	7,569										356,174	1,052,607	1,052,607	
	Month 4	348,605	7,569										356,174	1,408,781	1,408,781	
	Month 5	348,605	7,569										356,174	1,764,956	1,764,956	
2 Quarter	Month 6	98,402	7,569										105,971	1,870,927	1,870,927	
	Month 7	98,402	7,569										105,971	1,976,899	1,976,899	
	Month 8	98,402	7,569										105,971	2,082,870	2,082,870	
3 Quarter	Month 9	100,578	7,569										108,147	2,191,017	2,191,017	
	Month 10	100,578	7,569										108,147	2,299,164	2,299,164	
	Month 11	100,578	7,569										108,147	2,407,311	2,407,311	
4 Quarter	Month 12	96,226	7,569										103,795	2,511,106	2,511,106	
Year 2	Month 13	96,226	7,569										103,795	2,614,902	2,614,902	
	Month 14	96,226	7,569										103,795	2,718,697	2,718,697	
5 Quarter	Month 15	74,470	7,569	953,563	91,086								1,126,698	3,845,395	3,845,395	
	Month 16	74,470	7,569										82,039	3,927,424	3,927,424	
	Month 17	74,470	7,569										82,039	4,009,463	4,009,463	
6 Quarter	Month 18	72,294	7,569										79,863	4,089,326	4,089,326	
	Month 19	72,294	7,569										79,863	4,169,189	4,169,189	
	Month 20	72,294	7,569										79,863	4,249,053	4,249,053	
7 Quarter	Month 21	72,294	8,986	1,271,418	121,448								1,474,145	5,723,198	5,723,198	
	Month 22	72,294	8,986										81,280	5,804,478	5,804,478	
	Month 23	72,294	8,986										81,280	5,885,758	5,885,758	
8 Quarter	Month 24	70,118	9,986	1,271,418	121,448			470,361	16,222	10,502			2,116,063	8,001,821	8,001,821	
Year 3	Month 25	70,118	10,405										80,523	8,082,344	8,082,344	
	Month 26	70,118	10,405										80,523	8,162,867	8,162,867	
9 Quarter	Month 27	72,294	10,405										82,699	8,245,566	8,245,566	
	Month 28	72,294	10,405										82,699	8,328,265	8,328,265	
	Month 29	72,294	10,405										82,699	8,410,964	8,410,964	
10 Quarter	Month 30	73,382	10,405										83,787	8,494,751	8,494,751	
	Month 31	73,382	10,405										83,787	8,578,538	8,578,538	
	Month 32	73,382	10,405										83,787	8,662,325	8,662,325	
11 Quarter	Month 33	91,253	10,405					3,601,357	142,510				3,845,525	12,507,850	12,507,850	
	Month 34	91,253	10,405										101,658	12,711,166	12,711,166	
	Month 35	91,253	10,405										101,658	12,812,824	12,812,824	
12 Quarter	Month 36	91,253	10,405										101,658	12,914,482	12,914,482	
Year 4	Month 37	91,253	10,405										101,658	13,016,140	13,016,140	
	Month 38	91,253	10,405										101,658	13,117,798	13,117,798	
13 Quarter	Month 39	61,882	10,402	2,224,981	849,829	212,533	155,975	0	0	417,413	45,842		3,978,256	16,994,397	16,994,397	
	Month 40	90,839														

**TOTAL COSTS:** 3,845,395 419,095 6,357,088 849,829 607,238 137,383 165,000 4,071,718 158,732 427,915 45,842 17,085,235

Revenue Service Commences

**RFCs SYSTEM IMPLEMENTATION - SHARED AND TOTAL COST SCHEDULE**

Summary from Page 1

56.77%

**OTHER SHARED COSTS**

Year	Month	Payment Milestones	OTHER SHARED COSTS										Shared Costs		Vendor Payments		TOTAL (Shared + Vendor)		
			Project Mgmt.	ST Funds Mgmt.	Tech. Consult.	Sales Tax (8.8%)	Dispute Board	Escrow Acct.	Project Eval.	Marketing	TVM Consult.	Cost Subtotal	Cumulative Cost	Monthly Payments	Cumulative Payments	Monthly Payments	Cumulative Payments	Monthly Payments	Cumulative Payments
Year 1	Month 1	Schedule Acceptance																	
	Month 2		44,936		22,926	61,286	0	2,100										759,819	759,819
	Month 3					31,343	0											455,380	1,215,199
	Month 4					31,343	0											387,518	1,602,717
	Month 5					31,343	0											183,159	1,785,876
Year 2	Month 6	Design Acceptance	44,936		22,926	9,325	0												
	Month 7					9,325	0												
	Month 8					9,325	0												
	Month 9					9,325	0												
	Month 10					9,325	0												
Year 3	Month 11	Beta Test Readiness	44,936		22,926	9,134	23,105												
	Month 12					9,134	0												
	Month 13					9,134	0												
	Month 14					9,134	0												
	Month 15					9,134	0												
Year 4	Month 16	Full System Acceptance	44,936		22,926	7,219	0												
	Month 17					7,219	0												
	Month 18					7,219	0												
	Month 19					7,219	0												
	Month 20					7,219	0												
Year 5	Month 21		44,936		22,926	7,028	0												
	Month 22					7,028	0												
	Month 23					7,028	0												
	Month 24					7,028	0												
	Month 25					7,028	0												
Year 6	Month 26		44,936		22,926	128,725	0												
	Month 27					128,725	0												
	Month 28					128,725	0												
	Month 29					128,725	0												
	Month 30					128,725	0												
Year 7	Month 31		44,936		22,926	7,153	0												
	Month 32					7,153	0												
	Month 33					7,153	0												
	Month 34					7,153	0												
	Month 35					7,153	0												
Year 8	Month 36		44,936		22,926	186,214	23,105												
	Month 37					186,214	0												
	Month 38					186,214	0												
	Month 39					186,214	0												
	Month 40					186,214	0												
Year 9	Month 41		44,936		22,926	7,086	0												
	Month 42					7,086	0												
	Month 43					7,086	0												
	Month 44					7,086	0												
	Month 45					7,086	0												
Year 10	Month 46		44,936		22,926	7,373	0												
	Month 47					7,373	0												
	Month 48					7,373	0												
	Month 49					7,373	0												
	Month 50					7,373	0												
Year 11	Month 51		44,936		22,926	139,816	0												
	Month 52					139,816	0												
	Month 53					139,816	0												
	Month 54					139,816	0												
	Month 55					139,816	0												
Year 12	Month 56		44,936		22,926	7,086	0												
	Month 57					7,086	0												
	Month 58					7,086	0												
	Month 59					7,086	0												
	Month 60					7,086	0												
Year 13	Month 61		44,936		22,926	7,153	0												
	Month 62					7,153	0												
	Month 63					7,153	0												
	Month 64					7,153	0												
	Month 65					7,153	0												
Year 14	Month 66		44,936		22,926	7,086	0												
	Month 67					7,086	0												
	Month 68					7,086	0												
	Month 69					7,086	0												
	Month 70					7,086	0												
Year 15	Month 71		44,936		22,926	7,153	0												
	Month 72					7,153	0												
	Month 73					7,153	0												
	Month 74					7,153	0												
	Month 75					7,153	0												
Year 16	Month 76		44,936		22,926	7,086	0												
	Month 77					7,086	0												
	Month 78					7,086	0												
	Month 79					7,086	0												
	Month 80					7,086	0												
Year 17	Month 81		44,936		22,926	7,153	0												
	Month 82					7,153	0												
	Month 83					7,153	0												
	Month 84					7,153	0												
	Month 85					7,153	0												
Year 18	Month 86		44,936		22,926	7,086	0												
	Month 87					7,086	0												
	Month 88					7,086	0												
	Month 89					7,086	0												
	Month 90					7,086	0												
Year 19	Month 91		44,936		22,926	7,153	0												
	Month 92					7,153	0												
	Month 93					7,153	0												
	Month 94					7,153	0												
	Month 95					7,153	0												
Year 20	Month 96		44,936		22,926	7,086	0												
	Month 97					7,086	0												
	Month 98					7,086	0												
	Month 99					7,086	0												
	Month 100					7,086	0												
Year 21	Month 101		44,936		22,926	7,153	0												
	Month 102					7,153	0												
	Month 103					7,153	0												
	Month 104					7,153	0												
	Month 105					7,153	0												
Year 22	Month 106		44,936		22,926	7,086	0												
	Month 107					7,086	0												
	Month 108					7,086	0												
	Month 109					7,086	0												
	Month 110					7,086	0												
Year 23	Month 111		44,936		22,926	7,153	0												
	Month 112					7,153	0												
	Month 113					7,153	0												
	Month 114					7,153	0												
	Month 115					7,153	0												
Year 24	Month 116		44,936		22,926	7,086	0												
	Month 117																		





# RFCS SYSTEM IMPLEMENTATION - VENDOR PAYMENT SCHEDULE

**ST** **6 agencies**

1-21-03

Year	Month	Project Mgmt.	Perf. Security	Implementation			Integration & Reporting	Training Development	Classes	Equipment	Installation	Fare Cards	TVM Cost/Credit	Vendor Costs		Vendor Payments	
				Phase 1	Phase 2	Phase 3								Subtotal	Cumulative Total	Monthly Payments	Cumulative Payments
Year 1	Month 1		0											0	0	0	0
	Month 2		67,302	1,461	122,730		9,675							132,405	132,405	132,405	132,405
	Month 3		67,302	1,461										68,763	201,168	201,168	201,168
	Month 4		67,302	1,461										68,763	269,931	269,931	269,931
	Month 5		67,302	1,461										68,763	338,694	338,694	338,694
	Month 6		18,998	1,461										20,459	359,153	359,153	359,153
	Month 7		18,998	1,461										20,459	379,612	379,612	379,612
	Month 8		18,998	1,461										20,459	400,070	400,070	400,070
	Month 9		19,418	1,461										20,879	420,949	420,949	420,949
	Month 10		19,418	1,461										20,879	441,828	441,828	441,828
	Month 11		19,418	1,461										20,879	462,707	462,707	462,707
	Month 12		18,577	1,461										20,039	482,746	482,746	482,746
Year 2	Month 13		18,577	1,461										20,039	502,784	502,784	502,784
	Month 14		18,577	1,461										20,039	522,823	522,823	522,823
	Month 15		14,377	1,461	184,095	14,513								214,446	737,269	737,269	737,269
	Month 16		14,377	1,461										15,838	753,108	753,108	753,108
	Month 17		14,377	1,461										15,838	768,946	768,946	768,946
	Month 18		13,957	1,461										15,418	784,365	784,365	784,365
	Month 19		13,957	1,461										15,418	799,783	799,783	799,783
	Month 20		13,957	1,461										15,418	815,201	815,201	815,201
	Month 21		13,957	1,735	245,460	19,351								280,502	1,095,704	1,095,704	1,095,704
	Month 22		13,957	1,735										15,692	1,111,396	1,111,396	1,111,396
	Month 23		13,957	1,735										15,692	1,127,087	1,127,087	1,127,087
	Month 24		13,537	1,735	245,460	19,351					13,106	2,028		595,707	1,722,794	1,722,794	1,722,794
Year 3	Month 25		13,537	2,009										15,546	1,738,340	1,738,340	1,738,340
	Month 26		13,537	2,009										15,546	1,753,886	1,753,886	1,753,886
	Month 27		13,957	2,009										15,966	1,769,852	1,769,852	1,769,852
	Month 28		13,957	2,009										15,966	1,785,818	1,785,818	1,785,818
	Month 29		13,957	2,009										15,966	1,801,784	1,801,784	1,801,784
	Month 30		14,167	2,009										16,176	1,817,960	1,817,960	1,817,960
	Month 31		14,167	2,009										16,176	1,834,135	1,834,135	1,834,135
	Month 32		14,167	2,009										16,176	1,850,311	1,850,311	1,850,311
	Month 33		17,617	2,009										19,626	1,869,937	1,869,937	1,869,937
	Month 34		17,617	2,009										19,626	1,909,189	1,909,189	1,909,189
	Month 35		17,617	2,009										19,626	1,928,815	1,928,815	1,928,815
	Month 36		17,617	2,009										19,626	1,948,442	1,948,442	1,948,442
Year 4	Month 37		17,617	2,009										19,626	1,968,068	1,968,068	1,968,068
	Month 38		17,617	2,009										19,626	1,987,694	1,987,694	1,987,694
	Month 39		11,947	2,008	428,554	33,864					28,801	80,586	(71,900)	1,335,403	3,261,477	3,261,477	3,261,477
<b>TOTAL COSTS:</b>			742,391	80,910	1,227,298	164,068	96,755	26,523	33,000	855,443	41,907	82,613	(71,900)	3,279,008	3,279,008	3,279,008	3,279,008

12 mos. \$2m L.of C.

Revenue Service Commences

**RFCS SYSTEM IMPLEMENTATION - SHARED AND TOTAL COST SCHEDULE**

Summary from Page 1

10.96%

6 agencies

OTHER SHARED COSTS

Year	Month	Payment Milestones	Project Mgmt.	ST Funds Mgmt.	Tech. Consult.	Sales Tax (8.8%)	Dispute Board	Escrow Acct.	Project Eval.	Marketing	TVM Consult.	Shared Costs		Vendor Payments		TOTAL (Shared + Vendor)		
												Cost Subtotal	Cumulative Cost	Monthly Payments	Cumulative Payments	Monthly Payments	Cumulative Payments	
Year 1	Month 1	Scheduling Acceptance	8,675		4,426	11,652	0	406				12,057	0	132,405	0	144,462	0	
	Month 2											19,153	12,057	68,763	132,405	144,462	87,915	144,462
	Month 3											6,051	37,261	68,763	201,168	232,378	74,814	201,168
Year 2	Month 4	Design Acceptance	8,675		4,426	6,051	1,800		2,740			43,512	20,459	88,763	20,459	109,226	20,459	
	Month 5											6,051	49,564	88,763	289,992	339,554	74,814	289,992
	Month 6											1,800	58,214	20,459	379,612	417,367	35,361	379,612
Year 3	Month 7	Peer Test Readiness	8,675		4,426	1,837	1,837					1,837	20,459	20,459	20,459	40,918	20,459	
	Month 8											1,837	22,066	20,459	400,070	420,942	35,818	400,070
	Month 9											1,837	76,753	20,459	441,828	462,746	35,818	441,828
Year 4	Month 10	Beta Test Acceptance	8,675		4,426	1,763	4,461					1,763	20,039	17,232	20,039	37,271	20,039	
	Month 11											1,763	102,494	17,232	462,707	482,746	42,104	462,707
	Month 12											1,763	104,257	214,446	737,269	841,515	214,446	737,269
Year 5	Month 13	Installation Complete	8,675		4,426	1,381	1,381					1,381	15,838	17,073	15,838	32,911	15,838	
	Month 14											1,381	133,367	15,838	804,288	820,126	16,775	804,288
	Month 15											1,381	140,781	15,838	820,126	835,964	16,775	820,126
Year 6	Month 16	Full System Acceptance	8,675		4,426	1,357	1,357					1,357	15,418	17,073	15,418	32,491	15,418	
	Month 17											1,357	156,936	15,418	841,515	856,933	16,775	841,515
	Month 18											1,357	157,952	15,418	856,933	872,351	16,775	856,933
Year 7	Month 19		8,675		4,426	24,684	24,684					24,684	28,877	318,288	28,877	347,165	28,877	
	Month 20											1,381	198,500	15,838	872,351	888,189	16,775	872,351
	Month 21											1,381	199,881	15,838	888,189	904,027	16,775	888,189
Year 8	Month 22		8,675		4,426	52,422	4,461					4,461	15,692	1,291,442	15,692	1,307,134	15,692	
	Month 23											1,381	198,500	15,838	904,288	920,126	16,775	904,288
	Month 24											1,381	199,881	15,838	920,126	936,064	16,775	920,126
Year 9	Month 25		8,675		4,426	1,405	1,405					1,405	15,966	1,307,134	15,966	1,323,100	15,966	
	Month 26											1,381	198,500	15,838	936,064	951,902	16,775	936,064
	Month 27											1,381	199,881	15,838	951,902	967,780	16,775	951,902
Year 10	Month 28		8,675		4,426	1,423	1,423					1,423	16,176	1,323,587	16,176	1,339,763	16,176	
	Month 29											1,405	327,417	15,966	967,780	983,746	16,775	967,780
	Month 30											1,405	328,833	15,966	983,746	1,000,000	16,775	983,746
Year 11	Month 31		8,675		4,426	10,304	10,304					10,304	17,589	1,000,000	17,589	1,017,589	17,589	
	Month 32											1,423	344,789	16,176	1,000,000	1,016,185	16,775	1,000,000
	Month 33											1,423	346,212	16,176	1,016,185	1,032,361	16,775	1,016,185
Year 12	Month 34		8,675		4,426	0	0					0	17,589	1,032,361	17,589	1,050,000	17,589	
	Month 35											0	368,497	0	1,032,361	1,050,000	0	1,032,361
	Month 36											0	369,920	0	1,050,000	1,066,185	0	1,050,000
Year 13	Month 37		8,675		4,426	0	0					0	17,589	1,066,185	17,589	1,083,774	17,589	
	Month 38											0	388,497	0	1,066,185	1,083,774	0	1,066,185
	Month 39											0	389,920	0	1,083,774	1,100,000	0	1,083,774
<b>TOTAL COSTS:</b>			112,778	Lb.d.	57,540	288,553	13,382	10,850	6,220	32,880	2,970	527,174	3,806,182	3,806,182	3,806,182	3,806,182		
<b>Revenue Service Commences</b>												655,802	655,802	655,802	655,802	655,802		
<b>TOTAL COSTS (with 20% contingency):</b>												1,182,976	1,182,976	1,182,976	1,182,976	1,182,976		

112,778 Lb.d. 57,540 288,553 13,382 10,850 6,220 32,880 2,970 527,174 3,806,182 3,806,182 655,802 655,802 1,182,976 1,182,976

Revenue Service Commences Contingency Fund (20% vendor capital cost): 655,802 655,802

TOTAL COSTS (with 20% contingency): 1,182,976 1,182,976

# RFCS SYSTEM IMPLEMENTATION - VENDOR PAYMENT SCHEDULE

**6 agencies**

**KT**

1-21-03

Year	Project Mgmt.	Perf. Security	VENDOR COSTS										Vendor Payments				
			Phase 1	Phase 2	Integration & Reporting	Development	Classes	Equipment	Installation	Fare Cards	TM Cost/Credit	Subtotal	Cumulative Total	Monthly Payments	Cumulative Payments		
Year 1	Month 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Month 2	0	87,748	5,341											73,089	73,089	73,089
	Month 3	37,151													37,958	111,046	111,046
	Month 4	37,151													37,958	149,004	149,004
	Month 5	37,151													37,958	186,962	186,962
	Month 6	10,487													11,293	198,255	198,255
	Month 7	10,487													11,293	209,548	209,548
	Month 8	10,487													11,293	220,842	220,842
	Month 9	10,719													11,525	232,367	232,367
	Month 10	10,719													11,525	243,892	243,892
	Month 11	10,719													11,525	255,418	255,418
	Month 12	10,255													11,062	266,479	266,479
	Month 13	10,255													11,062	277,541	277,541
	Month 14	10,255													11,062	288,602	288,602
	Month 15	7,936	101,622	8,011											118,376	406,978	406,978
	Month 16	7,936													8,743	415,721	415,721
	Month 17	7,936													8,743	424,464	424,464
	Month 18	7,704													8,511	432,975	432,975
	Month 19	7,704													8,511	441,486	441,486
	Month 20	7,704													8,511	449,997	449,997
	Month 21	7,704	135,495	10,682											154,839	604,836	604,836
	Month 22	7,704													8,662	613,498	613,498
	Month 23	7,704													8,662	622,160	622,160
	Month 24	7,473	135,495	10,682	14,641	2,750	232,194	7,614	1,119						412,926	1,035,086	1,035,086
	Month 25	7,473													8,581	1,043,668	1,043,668
	Month 26	7,473													8,581	1,052,249	1,052,249
	Month 27	7,704													8,813	1,061,062	1,061,062
	Month 28	7,704													8,813	1,069,876	1,069,876
	Month 29	7,704													8,813	1,078,689	1,078,689
	Month 30	7,820													8,929	1,087,618	1,087,618
	Month 31	7,820													8,929	1,096,547	1,096,547
	Month 32	7,820													8,929	1,105,476	1,105,476
	Month 33	9,725													10,834	1,116,310	1,116,310
	Month 34	9,725													10,834	1,127,144	1,127,144
	Month 35	9,725													10,834	1,137,978	1,137,978
	Month 36	9,725													10,834	1,148,812	1,148,812
	Month 37	9,725													10,834	1,159,646	1,159,646
	Month 38	9,725													10,834	1,170,480	1,170,480
	Month 39	6,995	237,137	18,693			63,260	9,881	44,464	4,885					377,557	1,548,037	1,548,037
	12 mos. \$2m L of C.																
<b>TOTAL COSTS:</b>		409,805	677,477	90,567	53,409	14,641	66,000	433,171	17,495	45,603	4,885				1,857,716	1,857,716	1,857,716

Revenue Service Commences





WSF

1-21-03

6 agencies

RFCs SYSTEM IMPLEMENTATION - VENDOR PAYMENT SCHEDULE

Year	Month	Project Mgmt.	Perf. Security	Implementation		Integration & Reporting	Training		Equipment	Installation	Fare Cards	TVM Cost/Credit	Vendor Costs		Vendor Payments	
				Phase 1	Phase 2		Development	Classes					Subtotal	Cumulative Total	Monthly Payments	Cumulative Payments
Year 1	Month 1		0										0	0	0	0
	Month 2	Schedule Acceptance	0	60,883		4,785							65,478	65,478	65,478	65,478
	Month 3		33,282										34,005	99,483	99,483	99,483
	Month 4		33,282										34,005	133,488	133,488	133,488
	Month 5		33,282										34,005	167,493	167,493	167,493
	Month 6		9,395										10,117	177,610	177,610	177,610
	Month 7		9,395										10,117	187,728	187,728	187,728
	Month 8		9,395										10,117	197,845	197,845	197,845
	Month 9		9,602										10,325	208,170	208,170	208,170
	Month 10		9,602										10,325	218,495	218,495	218,495
	Month 11		9,602										10,325	228,820	228,820	228,820
	Month 12		9,187										9,910	238,730	238,730	238,730
Year 2	Month 13		9,187										9,910	248,640	248,640	248,640
	Month 14		9,187										9,910	258,549	258,549	258,549
	Month 15	Design Acceptance	7,110	91,040		7,177							106,049	364,598	364,598	364,598
	Month 16		7,110										7,832	372,431	372,431	372,431
	Month 17		6,902										7,832	380,263	380,263	380,263
	Month 18		6,902										7,625	387,888	387,888	387,888
	Month 19		6,902										7,625	395,513	395,513	395,513
	Month 20		6,902										7,625	403,138	403,138	403,138
	Month 21	Beta Test Readiness	6,902	121,386		9,570							138,716	541,853	541,853	541,853
	Month 22		6,902										7,760	549,614	549,614	549,614
	Month 23		6,902										7,760	557,374	557,374	557,374
	Month 24	Beta Test Acceptance	6,694	121,386		9,570		2,750	123,589	10,606	1,003		289,572	846,945	846,945	846,945
Year 3	Month 25		6,694										7,688	854,633	854,633	854,633
	Month 26		6,694										7,688	862,321	862,321	862,321
	Month 27		6,902										7,896	870,217	870,217	870,217
	Month 28		6,902										7,896	878,112	878,112	878,112
	Month 29		6,902										7,896	886,008	886,008	886,008
	Month 30		7,006										7,999	894,007	894,007	894,007
	Month 31		7,006										7,999	902,006	902,006	902,006
	Month 32		7,006										7,999	910,006	910,006	910,006
	Month 33	Installation Complete	8,712										9,706	919,711	919,711	919,711
	Month 34		8,712										9,706	929,417	929,417	929,417
	Month 35		8,712										9,706	939,123	939,123	939,123
	Month 36		8,712										9,706	948,828	948,828	948,828
Year 4	Month 37		8,712										9,706	958,534	958,534	958,534
	Month 38		8,712										9,706	968,239	968,239	968,239
	Month 39	Full System Acceptance	5,908	212,426		16,747		56,376	231,520	38,471	39,652		687,803	1,656,043	1,656,043	1,656,043
	Month 40															

TOTAL COSTS:

12 mos. \$2m L of C.

367,131 40,012 608,930 81,136 47,848 13,116 59,125 355,109 49,077 40,854 4,377 1,664,715

WSF  
1-21-03

6 agencies

RFCs SYSTEM IMPLEMENTATION - SHARED AND TOTAL COST SCHEDULE

5.42%

Summary from Page 1

Year	Month	Payment Milestones	OTHER SHARED COSTS										Shared Costs		Vendor Payments		TOTAL (Shared + Vendor)			
			Project Mgmt.	ST Funds Mgmt.	Tech. Consult.	Sales Tax (6.8%)	Dispute Board	Escrow Acct.	Project Eval.	Marketing	TVM Consult.	Cost Subtotal	Cumulative Cost	Monthly Payments	Cumulative Payments	Monthly Payments	Cumulative Payments	Monthly Payments	Cumulative Payments	
Year 1	Month 1																			
	Month 2	Schedule Acceptance	4,290		2,189	5,762	2,992			201							65,478	65,478	71,440	71,440
	Month 3				2,189	2,992	15,434										34,005	34,005	114,917	114,917
	Month 4				2,189	2,992	16,236										34,005	34,005	151,914	151,914
	Month 5				2,189	2,992	21,419										34,005	34,005	188,912	188,912
	Month 6				2,189	890	28,788										10,117	10,117	206,398	206,398
2 Quarter	Month 7				890	29,679										10,117	10,117	217,406	217,406	
	Month 8				890	30,569										10,117	10,117	228,414	228,414	
	Month 9				890	37,998										10,325	10,325	246,127	246,127	
3 Quarter	Month 10				909	38,885										10,325	10,325	257,360	257,360	
	Month 11				909	39,774										10,325	10,325	268,594	268,594	
	Month 12				909	50,666		2,206								9,910	9,910	289,416	289,416	
4 Quarter	Month 13				872	51,559					1,355					9,910	9,910	300,197	300,197	
	Month 14				872	52,450										10,782	10,782	310,979	310,979	
	Month 15	Design Acceptance	4,290		2,189	9,332	68,241									106,049	106,049	432,840	432,840	
5 Quarter	Month 16				689	68,930										7,832	7,832	441,361	441,361	
	Month 17				689	69,820										7,832	7,832	449,883	449,883	
	Month 18				671	76,112										7,625	7,625	457,408	457,408	
6 Quarter	Month 19				671	77,003										7,625	7,625	465,033	465,033	
	Month 20				671	83,295										7,625	7,625	472,658	472,658	
	Month 21	Beta Test Readiness	4,290		2,189	12,207	96,737									138,716	138,716	611,374	611,374	
7 Quarter	Month 22				683	97,630										7,760	7,760	619,134	619,134	
	Month 23				683	98,521										7,760	7,760	626,894	626,894	
	Month 24	Reliability Acceptance	4,290		2,189	25,482	135,298		2,206		1,469					289,572	289,572	916,466	916,466	
8 Quarter	Month 25				677	135,974										7,688	7,688	924,154	924,154	
	Month 26				677	136,861										7,688	7,688	931,842	931,842	
	Month 27				695	160,085					16,280					7,896	7,896	939,738	939,738	
9 Quarter	Month 28				695	160,980										7,896	7,896	947,634	947,634	
	Month 29				695	161,874										7,896	7,896	955,530	955,530	
	Month 30				704	166,657										7,999	7,999	963,529	963,529	
10 Quarter	Month 31				704	169,361										7,999	7,999	971,528	971,528	
	Month 32				704	170,255										7,999	7,999	979,527	979,527	
	Month 33	Installation Complete	4,290		2,189	184,361										88,823	88,823	1,068,350	1,068,350	
11 Quarter	Month 34				0	184,361										0	0	1,076,349	1,076,349	
	Month 35				0	184,361										0	0	1,084,348	1,084,348	
	Month 36				0	184,361										0	0	1,092,347	1,092,347	
12 Quarter	Month 37				0	184,401										0	0	1,100,346	1,100,346	
	Month 38				0	184,401										0	0	1,108,345	1,108,345	
	Month 39	Full System Acceptance	4,290		2,189	58,598				5,022						665,886	665,886	1,174,231	1,174,231	
Year 4	Month 40				0	184,401										0	0	1,182,230	1,182,230	
	Month 41				0	184,401										0	0	1,190,229	1,190,229	
	Month 42				0	184,401										0	0	1,198,228	1,198,228	
<b>TOTAL COSTS:</b>			55,772	1,469	28,455	146,495	6,618	5,366	4,065	16,260	1,469	264,499	264,499	1,929,214	1,929,214	735,985	735,985	2,665,200	2,665,200	
Revenue Service Commences																				
Contingency Fund (20% vendor capital cost):																				
<b>TOTAL COSTS (with 20% contingency):</b>																				

1,864,715

332,943

2,262,158

PT  
1-21-03

6 agencies

RFCS SYSTEM IMPLEMENTATION - VENDOR PAYMENT SCHEDULE

Year	Month	Project Mgmt.	Perf. Security	VENDOR COSTS						Vendor Payments						
				Implementation Phase 1	Implementation Phase 2	Integration & Reporting	Development	Training Classes	Equipment	Installation	Fare Cards	TVM Cost/Credit	Subtotal	Cumulative Total	Monthly Payments	Cumulative Payments
Year 1	Month 1	0	0										0	0	0	0
	Month 2	54,652	1,187	99,662		7,857							107,519	107,519	107,519	107,519
	Month 3	54,652	1,187										55,839	163,357	163,357	163,357
	Month 4	54,652	1,187										55,839	219,196	219,196	219,196
	Month 5	54,652	1,187										55,839	275,034	275,034	275,034
	Month 6	15,427	1,187										16,613	291,648	291,648	291,648
	Month 7	15,427	1,187										16,613	308,261	308,261	308,261
	Month 8	15,427	1,187										16,613	324,875	324,875	324,875
	Month 9	15,768	1,187										16,955	341,829	341,829	341,829
	Month 10	15,768	1,187										16,955	358,784	358,784	358,784
	Month 11	15,768	1,187										16,955	375,738	375,738	375,738
	Month 12	15,086	1,187										16,272	392,011	392,011	392,011
Year 2	Month 13	15,086	1,187										16,272	408,283	408,283	408,283
	Month 14	15,086	1,187										16,272	424,555	424,555	424,555
	Month 15	11,675	1,187	149,493		11,785							174,140	598,695	598,695	598,695
	Month 16	11,675	1,187										12,861	611,556	611,556	611,556
	Month 17	11,675	1,187										12,861	624,418	624,418	624,418
	Month 18	11,334	1,187										12,520	636,938	636,938	636,938
	Month 19	11,334	1,187										12,520	649,459	649,459	649,459
	Month 20	11,334	1,187										12,520	661,979	661,979	661,979
	Month 21	11,334	1,409	199,324		15,714							227,780	889,759	889,759	889,759
	Month 22	11,334	1,409										12,742	902,502	902,502	902,502
	Month 23	11,334	1,409										12,742	915,244	915,244	915,244
	Month 24	10,993	1,631	199,324		15,714							416,972	1,332,216	1,332,216	1,332,216
Year 3	Month 25	10,993	1,631										12,624	1,344,840	1,344,840	1,344,840
	Month 26	10,993	1,631										12,624	1,357,464	1,357,464	1,357,464
	Month 27	11,334	1,631										12,965	1,370,429	1,370,429	1,370,429
	Month 28	11,334	1,631										12,965	1,383,394	1,383,394	1,383,394
	Month 29	11,334	1,631										12,965	1,396,359	1,396,359	1,396,359
	Month 30	11,504	1,631										13,136	1,409,494	1,409,494	1,409,494
	Month 31	11,504	1,631										13,136	1,422,630	1,422,630	1,422,630
	Month 32	11,504	1,631										13,136	1,435,765	1,435,765	1,435,765
	Month 33	14,306	1,631										177,188	1,612,953	1,612,953	1,612,953
Year 4	Month 34	14,306	1,631													
	Month 35	14,306	1,631													
	Month 36	14,306	1,631													
	Month 37	14,306	1,631													
	Month 38	14,306	1,631													
	Month 39	9,701	1,631	348,817	133,230	27,489	46,750	483,355	19,216	65,439	7,187		1,075,302	2,688,255	2,688,255	2,688,255

TOTAL COSTS: Revenue Service Commences

12 mos. \$2m L of C.

**RFCS SYSTEM IMPLEMENTATION - SHARED AND TOTAL COST SCHEDULE**

8.90%

Summary from Page 1

6 agencies

OTHER SHARED COSTS

Year	Month	Payment Milestones	Project Mgmt.	ST Funds Mgmt.	Tech. Consult.	Sales Tax (8.8%)	Dispute Board	Escrow Acct.	Project Eval.	Marketing	TVM Consult.	Shared Costs		Vendor Payments		TOTAL (Shared + Vendor)	
												Cost Subtotal	Cumulative Cost	Monthly Payments	Cumulative Payments	Monthly Payments	Cumulative Payments
Year 1	Month 1											0	0	0	0	0	0
	Month 2	Schedule Acceptance	7,045		3,594	9,462	0	329				9,791	9,791	107,919	107,919	117,310	117,310
	Month 3					4,914	4,914					15,553	25,344	55,839	163,357	71,391	188,701
Year 2	Month 4					4,914	4,914					30,257	30,257	55,839	219,196	60,752	249,453
	Month 5					4,914	4,914					35,171	35,171	55,839	275,034	60,752	310,206
	Month 6					1,462	1,462					12,101	12,101	16,613	291,848	28,714	328,928
Year 3	Month 7					1,462	1,462					14,622	14,622	16,613	308,251	18,075	356,895
	Month 8					1,462	1,462					14,622	14,622	16,613	324,875	18,075	375,071
	Month 9					1,492	1,492					12,151	12,151	16,955	341,829	29,085	404,156
Year 4	Month 10					1,492	1,492					14,922	14,922	16,955	358,784	18,446	422,603
	Month 11					1,492	1,492					16,955	16,955	16,955	375,738	18,446	441,049
	Month 12					1,432	1,432	3,622	2,225			17,918	17,918	16,272	392,011	34,191	475,240
Year 5	Month 13					1,432	1,432					14,422	14,422	16,272	408,283	17,704	492,944
	Month 14					1,432	1,432					16,272	16,272	16,272	424,555	17,704	510,648
	Month 15	Design Acceptance	7,045		3,594	15,324	15,324					25,963	25,963	174,140	200,103	200,103	710,751
Year 6	Month 16					1,132	1,132					11,322	11,322	12,861	611,566	13,983	724,745
	Month 17					1,132	1,132					11,322	11,322	12,861	624,427	13,983	738,738
	Month 18					1,102	1,102					11,741	11,741	12,520	636,948	24,261	762,959
Year 7	Month 19					1,102	1,102					11,022	11,022	12,520	648,469	13,622	776,621
	Month 20					1,102	1,102					11,022	11,022	12,520	661,979	13,622	790,244
	Month 21	Begin Test Readiness	7,045		3,594	20,045	20,045					30,664	30,664	227,780	259,464	259,464	1,048,707
Year 8	Month 22					1,121	1,121					11,211	11,211	12,742	674,720	13,864	1,062,571
	Month 23					1,121	1,121					11,211	11,211	12,742	687,461	13,864	1,076,435
	Month 24	Begin Test Acceptance	7,045		3,594	36,633	36,633	3,622	2,225			55,827	55,827	418,972	472,799	472,799	1,549,234
Year 9	Month 25					1,111	1,111					11,111	11,111	12,624	699,885	13,735	1,562,969
	Month 26					1,111	1,111					11,111	11,111	12,624	712,509	13,735	1,576,703
	Month 27					1,141	1,141			26,700		38,480	38,480	12,965	730,429	51,445	1,628,148
Year 10	Month 28					1,141	1,141					11,411	11,411	12,965	743,394	14,106	1,642,254
	Month 29					1,141	1,141					11,411	11,411	12,965	756,359	14,106	1,656,360
	Month 30					1,156	1,156					11,795	11,795	13,136	769,494	24,930	1,681,290
Year 11	Month 31					1,156	1,156					11,556	11,556	13,136	782,630	14,291	1,695,582
	Month 32					1,156	1,156					11,556	11,556	13,136	795,765	14,291	1,709,873
	Month 33	Installation Complete	7,045		3,594	15,593	15,593					26,231	26,231	177,188	203,419	203,419	1,913,293
Year 12	Month 34					0	0					0	0	0	0	0	300,340
	Month 35					0	0					0	0	0	0	0	300,340
	Month 36					0	0	3,622	2,225			0	0	0	0	0	316,826
Year 4	Month 37					0	0					0	0	0	0	0	316,826
	Month 38					0	0					0	0	0	0	0	316,826
	Month 39	Full System Acceptance	7,045		3,594	94,627	94,627	8,246				113,511	113,511	1,075,302	1,188,813	1,188,813	3,118,592
<b>TOTAL COSTS:</b>			91,581	15,000	46,725	236,566	10,867	8,811	6,675	26,700	2,412	430,337	430,337	3,118,592	3,118,592	3,118,592	3,118,592
<b>Revenue Service Commences</b>																	537,651
<b>TOTAL COSTS (with 20% contingency):</b>																	2,680,255

Contingency Fund (20% vendor capital cost): 537,651

Page 2

**Attachment No. 4**

**“Grant Revenue Summary and  
Individual Agency Shares”**

REGIONAL FARE COORDINATION PROJECT  
Grant Funds Available for Implementation in the Region  
Total All Agencies

DRAFT

1/22/2003

Grant/Source	Match %	Total Award	Match req	Grant & Match	Remaining Grant Award	Remaining Match Req	Remaining Grant & Match	Notes
<b>FEDERAL GRANTS</b>								
Section 5307								
1. WA-90-X194 (Met 66)	20.0%	\$200,000	\$50,000	\$250,000	\$149,291	\$37,323	\$186,614	
2. Seattle/Everett UZA (MET-88X) - See (1)	20.0%	\$4,600,000	\$1,150,000	\$5,750,000	\$4,600,000	\$1,150,000	\$5,750,000	
3. WA-90-X207 (MET-88)	20.0%	\$2,283,000	\$570,750	\$2,853,750	\$2,283,000	\$570,750	\$2,853,750	
4. WA-90-X214 (MET-88A)	20.0%	\$616,667	\$154,167	\$770,834	\$616,667	\$154,167	\$770,834	
5. WA-90-X218 (MET-88B) - See (5)	20.0%	\$100,000	\$25,000	\$125,000	\$100,000	\$25,000	\$125,000	
6. WA-90-X262 (MET-88C) - See (2)	20.0%	\$1,000,000	\$250,000	\$1,250,000	\$1,000,000	\$250,000	\$1,250,000	
7. WA-90-X182 (PT-56) - See (5)	20.0%	\$891,000	\$222,750	\$1,113,750	\$827,000	\$206,750	\$1,033,750	
<b>Subtotal Section 5307</b>		<b>\$9,690,667</b>	<b>\$2,422,667</b>	<b>\$12,113,334</b>	<b>\$9,575,958</b>	<b>\$2,393,990</b>	<b>\$11,969,948</b>	
<b>CMAQ</b>								
8. WA-90-X174 (MET-21) - See (3)	13.5%	\$646,000	\$100,821	\$746,821	\$646,000	\$100,821	\$746,821	
9. WA-90-X174 (MET-21)	13.5%	\$40,000	\$6,243	\$46,243	\$40,000	\$6,243	\$46,243	
10. WA-90-X254-01 (MET-88)	13.5%	\$2,000,000	\$312,139	\$2,312,139	\$2,000,000	\$312,139	\$2,312,139	
<b>Subtotal CMAQ</b>		<b>\$2,686,000</b>	<b>\$419,202</b>	<b>\$3,105,202</b>	<b>\$2,686,000</b>	<b>\$419,202</b>	<b>\$3,105,202</b>	
<b>ITS 5288 - Deployment</b>								
11. ITS (2000) - See (4)	50.0%	\$2,437,905	\$2,437,905	\$4,875,810	\$2,437,905	\$2,437,905	\$4,875,810	
12. ITS (2001) - See (4)	50.0%	\$1,988,411	\$1,988,411	\$3,976,822	\$1,988,411	\$1,988,411	\$3,976,822	
<b>Subtotal ITS</b>		<b>\$4,426,316</b>	<b>\$4,426,316</b>	<b>\$8,852,632</b>	<b>\$4,426,316</b>	<b>\$4,426,316</b>	<b>\$8,852,632</b>	
<b>Total Federal Grants</b>		<b>\$16,802,983</b>	<b>\$7,268,185</b>	<b>\$24,071,168</b>	<b>\$16,688,274</b>	<b>\$7,239,508</b>	<b>\$23,927,782</b>	
<b>NON-FEDERAL GRANTS</b>								
13. Boeing/Everett Mitigation Fund - See (4)	N/A	\$500,000	\$0	\$500,000	\$500,000	\$0	\$500,000	
14. Sound Transit Technology Fund - See (4)	N/A	\$3,000,000	\$0	\$3,000,000	\$3,000,000	\$0	\$3,000,000	
<b>Total Non-Federal Grants</b>		<b>\$3,500,000</b>	<b>\$0</b>	<b>\$3,500,000</b>	<b>\$3,500,000</b>	<b>\$0</b>	<b>\$3,500,000</b>	
<b>GRAND TOTAL ALL GRANTS</b>		<b>\$20,302,983</b>	<b>\$7,268,185</b>	<b>\$27,571,168</b>	<b>\$20,188,274</b>	<b>\$7,239,508</b>	<b>\$27,427,782</b>	

Notes:

- MET-88X is divided to make up funds sub-granted to other agencies in previously obligated KC grants that will now be retained by KC.
  - Was WA-90-X216 (WSF grant de-obligated and re-obligated to KC METRO). Funds returned to WSF through MET-88X funds.
  - This grant was evenly split between CT & PT per previous agreement, but all funds will now remain with KC. Funds from MET-88X (Line 2) will replace for both CT and PT.
  - Revised proposed 6 agency FY2003 billing formula KC-56.77%, ST-10.96%, CT-11.90%, PT-8.90%, WSF-5.42%, KT-6.05%.
  - ET withdrew from the project 7/29/02. No determination at this point regarding status of their grant funds to the Regional Fare Project.
- Grant Formula Distribution** - Current distribution is for allocation of final implementation costs.
- Pass-Thru** - Agencies have indicated a preference to have these funds dispersed at the time of contract award to the vendor to obligate individually.

**REGIONAL FARE COORDINATION PROJECT**  
 Grant Funds Available for Implementation in the Region  
 King County Metro

DRAFT

1/22/03

Grant/Source	Match %	Total Award	Matched	Grant & Match	Remaining Grant Award	Remaining Match Req.	Remaining Grant & Match	Notes
<b>FEDERAL GRANTS</b>								
Section 5307								
1. WA-90-X194 (Met 68)	20.0%	\$200,000	\$50,000	\$250,000	\$149,291	\$37,323	\$186,614	
2. Seattle/Everett UZA (MET-88X) - See (1)	20.0%	\$100,820	\$25,205	\$126,025	\$100,820	\$25,205	\$126,025	KC portion less distributions on lines 6,8,10
3. WA-90-X207 (MET-88)	20.0%	\$2,283,000	\$570,750	\$2,853,750	\$2,283,000	\$570,750	\$2,853,750	
4. WA-90-X214 (MET-88A)	20.0%		\$0	\$0		\$0	\$0	
5. WA-90-X218 (MET-88B) - See (5)	20.0%		\$0	\$0		\$0	\$0	
6. WA-90-X262 (MET-88C) - See (2)	20.0%	\$1,000,000	\$250,000	\$1,250,000	\$1,000,000	\$250,000	\$1,250,000	
7. WA-90-X182 (PT-56) - See (5)	20.0%		\$0	\$0		\$0	\$0	
<b>Subtotal Section 5307</b>		<b>\$3,583,820</b>	<b>\$895,955</b>	<b>\$4,479,775</b>	<b>\$3,533,111</b>	<b>\$883,278</b>	<b>\$4,416,389</b>	
<b>CMAQ</b>								
8. WA-90-X174 (MET-21) - See (3)	13.5%	\$646,000	\$100,821	\$746,821	\$646,000	\$100,821	\$746,821	CT & PT - get \$323k each per previous agreement
9. WA-90-X174 (MET-21)	13.5%	\$40,000	\$6,243	\$46,243	\$40,000	\$6,243	\$46,243	
10. WA-90-X254-01 (MET-88)	13.5%	\$2,000,000	\$312,139	\$2,312,139	\$2,000,000	\$312,139	\$2,312,139	Each agency took distribution, part of MET-88.
<b>Subtotal CMAQ</b>		<b>\$2,686,000</b>	<b>\$419,202</b>	<b>\$3,105,202</b>	<b>\$2,686,000</b>	<b>\$419,202</b>	<b>\$3,105,202</b>	
<b>ITS 5288 - Deployment</b>								
11. ITS (2000) - See (4)	50.0%	\$1,383,999	\$1,383,999	\$2,767,998	\$1,383,999	\$1,383,999	\$2,767,998	
12. ITS (2001) - See (4)	50.0%	\$1,128,821	\$1,128,821	\$2,257,642	\$1,128,821	\$1,128,821	\$2,257,642	
<b>Subtotal ITS</b>		<b>\$2,512,820</b>	<b>\$2,512,820</b>	<b>\$5,025,640</b>	<b>\$2,512,820</b>	<b>\$2,512,820</b>	<b>\$5,025,640</b>	
<b>Total Federal Grants</b>		<b>\$8,782,640</b>	<b>\$3,827,977</b>	<b>\$12,610,617</b>	<b>\$8,731,931</b>	<b>\$3,815,300</b>	<b>\$12,547,231</b>	
<b>NON-FEDERAL GRANTS</b>								
13. Boeing/Everett Mitigation Fund - See (4)	N/A	\$283,850	\$0	\$283,850	\$283,850	\$0	\$283,850	
14. Sound Transit Technology Fund - See (4)	N/A	\$1,703,100	\$0	\$1,703,100	\$1,703,100	\$0	\$1,703,100	
<b>Total Non-Federal Grants</b>		<b>\$1,986,950</b>	<b>\$0</b>	<b>\$1,986,950</b>	<b>\$1,986,950</b>	<b>\$0</b>	<b>\$1,986,950</b>	
<b>GRAND TOTAL ALL GRANTS</b>		<b>\$10,769,590</b>	<b>\$3,827,977</b>	<b>\$14,597,567</b>	<b>\$10,718,881</b>	<b>\$3,815,300</b>	<b>\$14,534,181</b>	

**Notes:**

- (1) MET-88X divided to make up funds sub-granted to other agencies in previously obligated KC grants now retained by KC, including funds in WA-90-X254-01. \$1,000,000 returned to WSF to make up for WA-90-X216.
  - (2) Was WA-90-X216 (WSF grant de-obligated and re-obligated to KC METRO). Funds returned to WSF through MET-88X funds.
  - (3) This grant was evenly split between CT & PT per previous agreement, but all funds will now remain with KC. Funds from MET-88X (Line 2) will replace for both CT and PT.
  - (4) Revised proposed 6 agency FY2003 billing formula KC-56.77%, ST-10.96%, CT-11.90%, PT-8.90%, WSF-5.42%, KT-6.05%.
  - (5) ET withdrew from the project 7/29/02. No determination at this point regarding status of their grant funds to the Regional Fare Project.
- Grant Formula Distribution** - Current distribution is for allocation of final implementation costs.
- Pass-Thru** - Agencies have indicated a preference to have these funds dispersed at the time of contract award to the vendor to obligate individually.



REGIONAL FARE COORDINATION PROJECT  
Grant Funds Available for Implementation in the Region  
Sound Transit

DRAFT

1/22/03

Grant/Source	Match %	Grant Award	Match Req	Grant & Match	Remaining Grant/Award	Remaining Match Req	Remaining Grant & Match	Notes
<b>FEDERAL GRANTS</b>								
Section 5307								
1. WA-90-X194 (Met 68)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
2. Seattle/Everett UZA (MET-88X) - See (1)	20.0%	\$723,360	\$180,840	\$904,200	\$723,360	\$180,840	\$904,200	Includes \$219.2k from line 10.
3. WA-90-X207 (MET-88)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
4. WA-90-X214 (MET-88A)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
5. WA-90-X218 (MET-88B) - See (5)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
6. WA-90-X262 (MET-88C) - See (2)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
7. WA-90-X182 (PT-56) - See (5)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
<b>Subtotal Section 5307</b>		<b>\$723,360</b>	<b>\$180,840</b>	<b>\$904,200</b>	<b>\$723,360</b>	<b>\$180,840</b>	<b>\$904,200</b>	
<b>CMAQ</b>								
8. WA-90-X174 (MET-21) - See (3)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	
9. WA-90-X174 (MET-21)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	
10. WA-90-X254-01 (MET-88)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	Amount from here in line 2
<b>Subtotal CMAQ</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>ITS 5288 - Deployment</b>								
11. ITS (2000) - See (4)	50.0%	\$267,194	\$267,194	\$534,388	\$267,194	\$267,194	\$534,388	
12. ITS (2001) - See (4)	50.0%	\$217,930	\$217,930	\$435,860	\$217,930	\$217,930	\$435,860	
<b>Subtotal ITS</b>		<b>\$485,124</b>	<b>\$485,124</b>	<b>\$970,248</b>	<b>\$485,124</b>	<b>\$485,124</b>	<b>\$970,248</b>	
<b>Total Federal Grants</b>		<b>\$1,208,484</b>	<b>\$665,964</b>	<b>\$1,874,448</b>	<b>\$1,208,484</b>	<b>\$665,964</b>	<b>\$1,874,448</b>	
<b>NON-FEDERAL GRANTS</b>								
13. Boeing/Everett Mitigation Fund - See (4)	N/A	\$54,800	\$0	\$54,800	\$54,800	\$0	\$54,800	
14. Sound Transit Technology Fund - See (4)	N/A	\$328,800	\$0	\$328,800	\$328,800	\$0	\$328,800	
<b>Total Non-Federal Grants</b>		<b>\$383,600</b>	<b>\$0</b>	<b>\$383,600</b>	<b>\$383,600</b>	<b>\$0</b>	<b>\$383,600</b>	
<b>GRAND TOTAL ALL GRANTS</b>		<b>\$1,592,084</b>	<b>\$665,964</b>	<b>\$2,258,048</b>	<b>\$1,592,084</b>	<b>\$665,964</b>	<b>\$2,258,048</b>	

Notes:

- MET-88X divided to make up funds sub-granted to other agencies in previously obligated KC grants now retained by KC, including funds in WA-90-X254-01.
  - Was WA-90-X216 (WSF grant de-obligated and re-obligated to KC METRO). Funds returned to WSF through MET-88X funds.
  - This grant was evenly split between CT & PT per previous agreement, but all funds will now remain with KC. Funds from MET-88X (Line 2) will replace for both CT and PT.
  - Revised proposed 6 agency FY2003 billing formula KC-56.77%, ST-10.96%, CT-11.90%, PT-8.90%, WSF-5.42%, KT-6.05%.
  - ET withdrew from the project 7/29/02. No determination at this point regarding status of their grant funds to the Regional Fare Project.
- Grant Formula Distribution** - Current distribution is for allocation of final implementation costs.  
**Pass-Thru** - Agencies have indicated a preference to have these funds dispersed at the time of contract award to the vendor to obligate individually.

DRAFT

REGIONAL FARE COORDINATION PROJECT  
Grant Funds Available for Implementation in the Region  
Community Transit

1/22/03

Grant/Source	Match %	Grant Award	Match Req	Grant & Match	Remaining Grant Award	Remaining Match Req	Remaining Grant & Match	Notes
<b>FEDERAL GRANTS</b>								
Section 5307								
1. WA-90-X194 (Met 68)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
2. Seattle/Everett UZA (MET-88X) - See (1)	20.0%	\$1,108,400	\$277,100	\$1,385,500	\$1,108,400	\$277,100	\$1,385,500	includes \$323k-line 8, \$238k line 10.
3. WA-90-X207 (MET-88)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
4. WA-90-X214 (MET-88A)	20.0%	\$616,667	\$154,167	\$770,834	\$616,667	\$154,167	\$770,834	
5. WA-90-X218 (MET-88B) - See (5)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
6. WA-90-X262 (MET-88C) - See (2)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
7. WA-90-X182 (PT-56) - See (5)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
<b>Subtotal Section 5307</b>		<b>\$1,725,067</b>	<b>\$431,267</b>	<b>\$2,156,334</b>	<b>\$1,725,067</b>	<b>\$431,267</b>	<b>\$2,156,334</b>	
<b>CMAQ</b>								
8. WA-90-X174 (MET-21) - See (3)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	Amount from here in line 2.
9. WA-90-X174 (MET-21)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	
10. WA-90-X254-01 (MET-88)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	Amount from here in line 2.
<b>Subtotal CMAQ</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>ITS 5288 - Deployment</b>								
11. ITS (2000) - See (4)	50.0%	\$290,111	\$290,111	\$580,222	\$290,111	\$290,111	\$580,222	
12. ITS (2001) - See (4)	50.0%	\$236,621	\$236,621	\$473,242	\$236,621	\$236,621	\$473,242	
<b>Subtotal ITS</b>		<b>\$526,732</b>	<b>\$526,732</b>	<b>\$1,053,464</b>	<b>\$526,732</b>	<b>\$526,732</b>	<b>\$1,053,464</b>	
<b>Total Federal Grants</b>		<b>\$2,251,799</b>	<b>\$957,999</b>	<b>\$3,209,798</b>	<b>\$2,251,799</b>	<b>\$957,999</b>	<b>\$3,209,798</b>	
<b>NON-FEDERAL GRANTS</b>								
13. Boeing/Everett Mitigation Fund - See (4)	N/A	\$59,500	\$0	\$59,500	\$59,500	\$0	\$59,500	
14. Sound Transit Technology Fund - See (4)	N/A	\$357,000	\$0	\$357,000	\$357,000	\$0	\$357,000	
<b>Total Non-Federal Grants</b>		<b>\$416,500</b>	<b>\$0</b>	<b>\$416,500</b>	<b>\$416,500</b>	<b>\$0</b>	<b>\$416,500</b>	
<b>GRAND TOTAL ALL GRANTS</b>		<b>\$2,668,299</b>	<b>\$957,999</b>	<b>\$3,626,298</b>	<b>\$2,668,299</b>	<b>\$957,999</b>	<b>\$3,626,298</b>	

**Notes:**

- (1) MET-88X divided to make up funds sub-granted to other agencies in previously obligated KC grants now retained by KC, including funds in WA-90-X254-01.
  - (2) Was WA-90-X216 (WSF grant de-obligated and re-obligated to KC METRO). Funds returned to WSF through MET-88X funds.
  - (3) This grant was evenly split between CT & PT per previous agreement, but all funds will now remain with KC. Funds from MET-88X (Line 2) will replace for both CT and PT.
  - (4) Revised proposed 6 agency FY2003 billing formula KC-56.77%, ST-10.96%, CT-11.90%, PT-8.90%, WSF-5.42%, KT-6.05%.
  - (5) ET withdrew from the project 7/29/02. No determination at this point regarding status of their grant funds to the Regional Fare Project.
- Grant Formula Distribution** - Current distribution is for allocation of final implementation costs.
- Pass-Thru** - Agencies have indicated a preference to have these funds dispersed at the time of contract award to the vendor to obligate individually.

REGIONAL FARE COORDINATION PROJECT  
Grant Funds Available for Implementation in the Region  
Pierce Transit

DRAFT

1/22/03

Grant/Source	Match %	Total Award	Match req.	Grant & Match	Remaining Grant Award	Remaining Match Req.	Remaining Grant & Match	Notes
<b>FEDERAL GRANTS</b>								
Section 5307								
1. WA-90-X194 (Met 68)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
2. Seattle/Everett UZA (MET-88X) - See (1)	20.0%	\$910,400	\$227,600	\$1,138,000	\$910,400	\$227,600	\$1,138,000	Includes \$323k-line 8, \$178k line 10.
3. WA-90-X207 (MET-88)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
4. WA-90-X214 (MET-88A)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
5. WA-90-X218 (MET-88B) - See (5)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
6. WA-90-X262 (MET-88C) - See (2)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
7. WA-90-X182 (PT-56) - See (5)	20.0%	\$891,000	\$222,750	\$1,113,750	\$827,000	\$206,750	\$1,033,750	
<b>Subtotal Section 5307</b>		<b>\$1,801,400</b>	<b>\$450,350</b>	<b>\$2,251,750</b>	<b>\$1,737,400</b>	<b>\$434,350</b>	<b>\$2,171,750</b>	
<b>CMAQ</b>								
8. WA-90-X174 (MET-21) - See (3)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	Amount from here in line 2.
9. WA-90-X174 (MET-21)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	
10. WA-90-X254-01 (MET-88)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	Amount from here in line 2.
<b>Subtotal CMAQ</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>ITS 5288 - Deployment</b>								
11. ITS (2000) - See (4)	50.0%	\$216,974	\$216,974	\$433,948	\$216,974	\$216,974	\$433,948	
12. ITS (2001) - See (4)	50.0%	\$176,968	\$176,968	\$353,936	\$176,968	\$176,968	\$353,936	
<b>Subtotal ITS</b>		<b>\$393,942</b>	<b>\$393,942</b>	<b>\$787,884</b>	<b>\$393,942</b>	<b>\$393,942</b>	<b>\$787,884</b>	
<b>Total Federal Grants</b>		<b>\$2,195,342</b>	<b>\$844,292</b>	<b>\$3,039,634</b>	<b>\$2,131,342</b>	<b>\$828,292</b>	<b>\$2,959,634</b>	
<b>NON-FEDERAL GRANTS</b>								
13. Boeing/Everett Mitigation Fund - See (4)	N/A	\$44,500	\$0	\$44,500	\$44,500	\$0	\$44,500	
14. Sound Transit Technology Fund - See (4)	N/A	\$267,000	\$0	\$267,000	\$267,000	\$0	\$267,000	
<b>Total Non-Federal Grants</b>		<b>\$311,500</b>	<b>\$0</b>	<b>\$311,500</b>	<b>\$311,500</b>	<b>\$0</b>	<b>\$311,500</b>	
<b>GRAND TOTAL ALL GRANTS</b>		<b>\$2,506,842</b>	<b>\$844,292</b>	<b>\$3,351,134</b>	<b>\$2,442,842</b>	<b>\$828,292</b>	<b>\$3,271,134</b>	

Notes:

- (1) MET-88X divided to make up funds sub-granted to other agencies in previously obligated KC grants now retained by KC, including funds in WA-90-X254-01.
  - (2) Was WA-90-X216 (WSF grant de-obligated and re-obligated to KC METRO). Funds returned to WSF through MET-88X funds.
  - (3) This grant was evenly split between CT & PT per previous agreement, but all funds will now remain with KC. Funds from MET-88X (Line 2) will replace for both CT and PT.
  - (4) Revised proposed 6 agency FY2003 billing formula KC-36.77%, ST-10.96%, CT-11.90%, PT-8.90%, WSF-5.42%, KT-6.05%.
  - (5) ET withdrew from the project 7/29/02. No determination at this point regarding status of their grant funds to the Regional Fare Project.
- Grant Formula Distribution** - Current distribution is for allocation of final implementation costs.  
**Pass-Thru** - Agencies have indicated a preference to have these funds dispersed at the time of contract award to the vendor to obligate individually.

REGIONAL FARE COORDINATION PROJECT  
Grant Funds Available for Implementation in the Region  
Washington State Ferries

DRAFT

1/22/03

Grant/Source	Match %	Total Award	Match req.	Grant & Match	Remaining Grant Award	Remaining Match Req.	Remaining Grant & Match	Notes
<b>FEDERAL GRANTS</b>								
Section 5307								
1. WA-90-X194 (Met 68)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
2. Seattle/Everett UZA (MET-88X) - See (1)	20.0%	\$1,357,720	\$339,430	\$1,697,150	\$1,357,720	\$339,430	\$1,697,150	Includes \$108.4K-line 10 and \$1,000,000 of KC-MET-88.
3. WA-90-X207 (MET-88)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
4. WA-90-X214 (MET-88A)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
5. WA-90-X218 (MET-88B) - See (5)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
6. WA-90-X262 (MET-88C) - See (2)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	Equal amount returned to WSF and included in line 2.
7. WA-90-X182 (PT-56) - See (5)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
<b>Subtotal Section 5307</b>		<b>\$1,357,720</b>	<b>\$339,430</b>	<b>\$1,697,150</b>	<b>\$1,357,720</b>	<b>\$339,430</b>	<b>\$1,697,150</b>	
<b>CMAQ</b>								
8. WA-90-X174 (MET-21) - See (3)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	
9. WA-90-X174 (MET-21)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	
10. WA-90-X254-01 (MET-86)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	Amount from here included in line 2.
<b>Subtotal CMAQ</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>ITS 5288 - Deployment</b>								
11. ITS (2000) - See (4)	50.0%	\$132,134	\$132,134	\$264,268	\$132,134	\$132,134	\$264,268	
12. ITS (2001) - See (4)	50.0%	\$107,772	\$107,772	\$215,544	\$107,772	\$107,772	\$215,544	
<b>Subtotal ITS</b>		<b>\$239,906</b>	<b>\$239,906</b>	<b>\$479,812</b>	<b>\$239,906</b>	<b>\$239,906</b>	<b>\$479,812</b>	
<b>Total Federal Grants</b>		<b>\$1,597,626</b>	<b>\$579,336</b>	<b>\$2,176,962</b>	<b>\$1,597,626</b>	<b>\$579,336</b>	<b>\$2,176,962</b>	
<b>NON-FEDERAL GRANTS</b>								
13. Boeing/Everett Mitigation Fund - See (4)	N/A	\$27,100	\$0	\$27,100	\$27,100	\$0	\$27,100	
14. Sound Transit Technology Fund - See (4)	N/A	\$162,600	\$0	\$162,600	\$162,600	\$0	\$162,600	
<b>Total Non-Federal Grants</b>		<b>\$189,700</b>	<b>\$0</b>	<b>\$189,700</b>	<b>\$189,700</b>	<b>\$0</b>	<b>\$189,700</b>	
<b>GRAND TOTAL ALL GRANTS</b>		<b>\$1,787,326</b>	<b>\$579,336</b>	<b>\$2,366,662</b>	<b>\$1,787,326</b>	<b>\$579,336</b>	<b>\$2,366,662</b>	

Notes:

- (1) MET-88X divided to make up funds sub-granted to other agencies in previously obligated KC grants now retained by KC, including funds in WA-90-X254-01. Includes \$1,000,000 from KC Metro as returned grant WA-90-X216.
  - (2) Was WA-90-X216 (WSF grant de-obligated and re-obligated to KC METRO). Replaced with \$1,000,000 in MET-88X funds.
  - (3) This grant was evenly split between CT & PT per previous agreement, but all funds will now remain with KC. Funds from MET-88X (Line 2) will replace for both CT and PT.
  - (4) Revised proposed 6 agency FY2003 billing formula KC-56.77%, ST-10.96%, CT-11.90%, PT-8.90%, WSF-5.42%, KT-6.05%.
  - (5) ET withdrew from the project 7/29/02. No determination at this point regarding status of their grant funds to the Regional Fare Project.
- Grant Formula Distribution** - Current distribution is for allocation of final implementation costs.
- Pass-Thru** - Agencies have indicated a preference to have these funds dispersed at the time of contract award to the vendor to obligate individually.

REGIONAL FARE COORDINATION PROJECT  
Grant Funds Available for Implementation in the Region  
Kitsap Transit

DRAFT

1/22/03

Grant/Source	Match %	Total Award	Match req	Grant & Match	Remaining Grant Award	Remaining Match Req	Remaining Grant & Match	Notes
<b>FEDERAL GRANTS</b>								
Section 5307								
1. WA-90-X194 (Met 66)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
2. Seattle/Everett UZA (MET-88X) - See (1)	20.0%	\$399,300	\$99,825	\$499,125	\$399,300	\$99,825	\$499,125	Includes \$121K-line 10.
3. WA-90-X207 (MET-88)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
4. WA-90-X214 (MET-88A)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
5. WA-90-X218 (MET-88B) - See (5)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
6. WA-90-X262 (MET-88C) - See (2)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
7. WA-90-X182 (PT-56) - See (5)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
<b>Subtotal Section 5307</b>		<b>\$399,300</b>	<b>\$99,825</b>	<b>\$499,125</b>	<b>\$399,300</b>	<b>\$99,825</b>	<b>\$499,125</b>	
<b>GMAQ</b>								
8. WA-90-X174 (MET-21) - See (3)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	
9. WA-90-X174 (MET-21)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	
10. WA-90-X254-01 (MET-88)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	Amount from here included in line 2.
<b>Subtotal GMAQ</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>ITS 5288 - Deployment</b>								
11. ITS (2000) - See (4)	50.0%	\$147,493	\$147,493	\$294,986	\$147,493	\$147,493	\$294,986	
12. ITS (2001) - See (4)	50.0%	\$120,299	\$120,299	\$240,598	\$120,299	\$120,299	\$240,598	
<b>Subtotal ITS</b>		<b>\$267,792</b>	<b>\$267,792</b>	<b>\$535,584</b>	<b>\$267,792</b>	<b>\$267,792</b>	<b>\$535,584</b>	
<b>Total Federal Grants</b>		<b>\$667,092</b>	<b>\$367,617</b>	<b>\$1,034,709</b>	<b>\$667,092</b>	<b>\$367,617</b>	<b>\$1,034,709</b>	
<b>NON-FEDERAL GRANTS</b>								
13. Boeing/Everett Mitigation Fund - See (4)	N/A	\$30,250	\$0	\$30,250	\$30,250	\$0	\$30,250	
14. Sound Transit Technology Fund - See (4)	N/A	\$181,500	\$0	\$181,500	\$181,500	\$0	\$181,500	
<b>Total Non-Federal Grants</b>		<b>\$211,750</b>	<b>\$0</b>	<b>\$211,750</b>	<b>\$211,750</b>	<b>\$0</b>	<b>\$211,750</b>	
<b>GRAND TOTAL ALL GRANTS</b>		<b>\$878,842</b>	<b>\$367,617</b>	<b>\$1,246,459</b>	<b>\$878,842</b>	<b>\$367,617</b>	<b>\$1,246,459</b>	

Notes:

- (1) MET-88X divided to make up funds sub-granted to other agencies in previously obligated KC grants now retained by KC, including funds in WA-90-X254-01.
  - (2) Was WA-90-X216 (WSF grant de-obligated and re-obligated to KC METRO). Funds returned to WSF through MET-88X funds.
  - (3) This grant was evenly split between CT & PT per previous agreement, but all funds will now remain with KC. Funds from MET-88X (Line 2) will replace for both CT and PT.
  - (4) Revised proposed 6 agency FY2003 billing formula KC-56.77%, ST-10.96%, CT-11.90%, PT-8.90%, WSF-5.42%, KT-6.05%.
  - (5) ET withdrew from the project 7/29/02. No determination at this point regarding status of their grant funds to the Regional Fare Project.
- Grant Formula Distribution** - Current distribution is for allocation of final implementation costs.  
**Pass-Thru** - Agencies have indicated a preference to have these funds dispersed at the time of contract award to the vendor to obligate individually.



**REGIONAL FARE COORDINATION PROJECT**  
 Grant Funds Available for Implementation in the Region  
 Everett Transit

DRAFT

1/22/03

Grant/Source	Match %	Total Award	Match req.	Grant & Match	Remaining Grant Award	Remaining Match Req.	Remaining Grant & Match	Notes
<b>FEDERAL GRANTS</b>								
Section 5307								
1. WA-90-X194 (Met 68)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
2. Seattle/Everett UZA (MET-88X) - See (1)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	Includes \$64k-line 10.
3. WA-90-X207 (MET-88)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
4. WA-90-X214 (MET-88A)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
5. WA-90-X218 (MET-88B) - See (5)	20.0%	\$100,000	\$25,000	\$125,000	\$100,000	\$25,000	\$125,000	
6. WA-90-X262 (MET-88C) - See (2)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
7. WA-90-X182 (PT-56) - See (5)	20.0%	\$0	\$0	\$0	\$0	\$0	\$0	
<b>Subtotal Section 5307</b>		<b>\$100,000</b>	<b>\$25,000</b>	<b>\$125,000</b>	<b>\$100,000</b>	<b>\$25,000</b>	<b>\$125,000</b>	
<b>CMAQ</b>								
8. WA-90-X174 (MET-21) - See (3)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	
9. WA-90-X174 (MET-21)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	
10. WA-90-X254-01 (MET-88)	13.5%	\$0	\$0	\$0	\$0	\$0	\$0	Amount from here included in line 2.
<b>Subtotal CMAQ</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>ITS 5288 - Deployment</b>								
11. ITS (2000) - See (4)	50.0%	\$0	\$0	\$0	\$0	\$0	\$0	
12. ITS (2001) - See (4)	50.0%	\$0	\$0	\$0	\$0	\$0	\$0	
<b>Subtotal ITS</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>Total Federal Grants</b>		<b>\$100,000</b>	<b>\$25,000</b>	<b>\$125,000</b>	<b>\$100,000</b>	<b>\$25,000</b>	<b>\$125,000</b>	
<b>NON-FEDERAL GRANTS</b>								
13. Boeing/Everett Mitigation Fund - See (4)	N/A	\$0	\$0	\$0	\$0	\$0	\$0	
14. Sound Transit Technology Fund - See (4)	N/A	\$0	\$0	\$0	\$0	\$0	\$0	
<b>Total Non-Federal Grants</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>GRAND TOTAL ALL GRANTS</b>		<b>\$100,000</b>	<b>\$25,000</b>	<b>\$125,000</b>	<b>\$100,000</b>	<b>\$25,000</b>	<b>\$125,000</b>	

**Notes:**

- MET-88X divided to make up funds sub-granted to other agencies in previously obligated KC grants now retained by KC, including funds in WA-90-X254-01.
  - Was WA-90-X216 (WSF grant de-obligated and re-obligated to KC METRO). Funds returned to WSF through MET-88X funds.
  - This grant was evenly split between CT & PT per previous agreement, but all funds will now remain with KC. Funds from MET-88X (Line 2) will replace for both CT and PT.
  - Revised proposed 6 agency FY2003 billing formula KC-56.77%, ST-10.96%, CT-11.90%, PT-8.90%, WSF-5.42%, KT-6.05%.
  - ET withdrew from the project 7/29/02. No determination at this point regarding status of their grant funds to the Regional Fare Project.
- Grant Formula Distribution** - Current distribution is for allocation of final implementation costs.  
**Pass-Thru** - Agencies have indicated a preference to have these funds dispersed at the time of contract award to the vendor to obligate individually.

**Attachment No. 5**

**“Individual Agency Internal  
Implementation Cost Estimates”**

**ATTACHMENT 5  
RFC INDIVIDUAL AGENCY INTERNAL IMPLEMENTATION COST ESTIMATES**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total
	Site Mgr	Tech Staff Review	Interface Dev.	Finance Reptg. Staff	Cust Service Staff	Legal Counsel	Beta Staff Trng.	Beta Site Prep.	Beta Equip. Inst.	FS Staff Trng.	FS Site Prep.	FS Equip. Inst.	Mkkg. Staff Dev. Plan	DDU Toolkit	Travel Perth Testing	Travel Concord Inspection	CMU Network Charges	
Community Transit	\$244,998	\$135,432	\$123,288	\$70,480	\$77,760	\$49,000	\$15,970	\$9,000	\$31,022	\$34,790	\$9,000	\$87,900	\$30,000	\$6,000	\$6,000	\$2,000	-	\$932,640
King County	\$277,666	\$310,806	\$220,325	\$29,900	\$369,018	-	\$100,000	\$11,102	\$47,198	\$500,000	\$44,008	\$481,837	\$57,024	\$6,500	\$9,000	\$2,000	-	\$2,446,384
Kitsap Transit	\$219,375	\$125,000	\$45,000	\$50,000	\$75,000	-	\$15,000	\$10,000	\$30,000	\$20,000	\$15,000	\$90,000	\$30,000	-	\$6,000	\$2,000	-	\$732,375
Pierce Transit	\$325,000	\$200,000	-	\$88,000	-	-	\$21,000	\$10,000	\$29,000	\$11,000	-	\$122,000	-	\$7,000	\$9,000	-	\$2,000	\$824,000
Sound Transit	\$197,847	\$98,924	\$98,924	\$98,924	\$98,924	-	-	-	-	-	-	-	-	-	-	-	-	\$593,543
WSF	\$260,000	\$113,750	\$43,750	\$50,000	\$21,875	\$40,625	\$55,687	-	\$1,347	\$41,821	-	\$2,827	-	-	-	-	\$96,000	\$727,682
<b>Regional Total:</b>	\$1,524,866	\$983,912	\$531,287	\$387,304	\$642,577	\$89,625	\$207,657	\$40,102	\$138,567	\$607,611	\$68,008	\$764,564	\$117,024	\$19,500	\$30,000	\$6,000	\$98,000	\$6,256,624

**NOTES:**

- The current assumption is that Pierce Transit would implement the smart card fare collection equipment on its regional express service operated on contract for Sound Transit. Therefore Pierce Transit cost estimates are included in this worksheet.
- Sound Transit has proposed (pending its Board approval) to fund some capital and operating costs for Community and Pierce Transit, which may include some of the internal implementation costs shown above. This financial support will be documented in a separate agreement among Sound, Community and Pierce Transit. Contingent upon the final disposition of that agreement, the costs shown in this worksheet may shift from Pierce or Community Transit to Sound Transit.



**Attachment No. 6**

**“Estimated Individual Agency Operating  
Costs and Assumptions”**

**REGIONAL**

100.0% Revised BAFO Costs

**OPERATIONAL COSTS**

**Depot Maintenance:**

	Price per Event	quantities	quantities	Failure Rate (5%)
On-Board FTP	\$116	2,163	108	
Stand-Alone FTP - ST config.	\$460	26	1	
Stand-Alone FTP - WT config.	\$460	65	3	
Portable FTP - verifier only	\$354	16	1	
Portable FTP - full function	\$354	65	3	
DDU	\$138	2,163	108	
TVM Integration Kit	\$186	34	1.7	
Wireless Data Sys-Base	\$332	18	0.9	
Wireless Data Sys-On-Board	\$115	2,163	108	
<b>TOTAL</b>				

**On-Site Maintenance:**

	Monthly Cost/unit	quantities	Monthly Cost
DAC	\$45.14	22	\$983
Back Office Computer	\$138.82	6	\$833
CST	\$52.27	32	\$1,673
Photo ID	\$110.89	10	\$1,109
<b>TOTAL</b>			\$4,608

**Technical**

**Support Maintenance:**

	Monthly Cost/unit	quantities	Monthly Cost
On-Board FTP	\$0.58	2,163	\$1,255
Stand-Alone FTP	\$2.94	91	\$268
Portable FTP	\$1.87	81	\$151
DDU	\$1.09	2,163	\$2,358
Wireless Data Sys-Base	\$2.50	18	\$45
Wireless Data Sys-On-Board	\$0.65	2,163	\$1,406
DAC	\$5.39	22	\$119
Back Office Computer	\$16.57	6	\$99
TVM Integration Kit	\$1.17	34	\$40
CST	\$6.24	32	\$200
Photo ID	\$13.23	10	\$132
<b>TOTAL</b>			\$6,072

**Software Maintenance:**

	Monthly Cost/unit	Agency Share	Monthly Cost
Software maintenance services	\$31,745	100.0%	\$31,745
<b>TOTAL</b>			\$31,745

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$12,545	\$12,922	\$13,309	\$13,709	\$14,120	\$14,544	\$14,980	\$15,429	\$15,892	\$16,375
	\$598	\$616	\$634	\$653	\$673	\$693	\$714	\$735	\$758	\$785
	\$1,495	\$1,540	\$1,586	\$1,634	\$1,683	\$1,733	\$1,785	\$1,839	\$1,894	\$1,951
	\$283	\$292	\$300	\$309	\$319	\$328	\$338	\$348	\$359	\$370
	\$1,151	\$1,185	\$1,221	\$1,257	\$1,295	\$1,334	\$1,374	\$1,415	\$1,457	\$1,501
	\$14,925	\$15,372	\$15,834	\$16,309	\$16,798	\$17,302	\$17,821	\$18,355	\$18,906	\$19,475
	\$316	\$326	\$335	\$346	\$356	\$367	\$378	\$389	\$401	\$413
	\$299	\$308	\$317	\$327	\$336	\$346	\$357	\$367	\$379	\$391
	\$12,437	\$12,810	\$13,195	\$13,591	\$13,998	\$14,418	\$14,851	\$15,296	\$15,755	\$16,228
<b>TOTAL</b>	\$42,049	\$43,371	\$44,732	\$46,134	\$47,579	\$49,067	\$50,597	\$52,170	\$53,787	\$55,449

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$11,917	\$12,274	\$12,643	\$13,022	\$13,413	\$13,815	\$14,229	\$14,656	\$15,096	\$15,549
	\$9,995	\$10,295	\$10,604	\$10,922	\$11,250	\$11,587	\$11,935	\$12,293	\$12,661	\$13,040
	\$20,072	\$20,674	\$21,294	\$21,933	\$22,591	\$23,269	\$23,967	\$24,686	\$25,426	\$26,187
	\$13,307	\$13,706	\$14,117	\$14,541	\$14,977	\$15,426	\$15,889	\$16,366	\$16,857	\$17,362
<b>TOTAL</b>	\$55,290	\$56,949	\$58,655	\$60,417	\$62,230	\$64,097	\$66,020	\$68,000	\$70,040	\$72,142

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$15,054	\$15,506	\$15,971	\$16,450	\$16,944	\$17,452	\$17,976	\$18,515	\$19,071	\$19,642
	\$3,210	\$3,307	\$3,406	\$3,508	\$3,613	\$3,722	\$3,833	\$3,948	\$4,067	\$4,190
	\$1,818	\$1,872	\$1,928	\$1,986	\$2,046	\$2,107	\$2,170	\$2,235	\$2,303	\$2,374
	\$28,292	\$29,141	\$30,015	\$30,915	\$31,843	\$32,798	\$33,782	\$34,796	\$35,840	\$36,914
	\$540	\$556	\$573	\$590	\$608	\$626	\$645	\$664	\$684	\$704
	\$16,871	\$17,378	\$17,899	\$18,436	\$18,989	\$19,559	\$20,145	\$20,750	\$21,372	\$22,011
	\$1,423	\$1,466	\$1,510	\$1,555	\$1,602	\$1,650	\$1,699	\$1,750	\$1,803	\$1,858
	\$1,193	\$1,229	\$1,266	\$1,304	\$1,343	\$1,383	\$1,425	\$1,467	\$1,511	\$1,557
	\$477	\$492	\$506	\$522	\$537	\$553	\$570	\$587	\$605	\$624
	\$2,396	\$2,468	\$2,542	\$2,618	\$2,697	\$2,778	\$2,861	\$2,947	\$3,035	\$3,125
	\$1,588	\$1,635	\$1,684	\$1,735	\$1,787	\$1,840	\$1,896	\$1,953	\$2,011	\$2,071
<b>TOTAL</b>	\$72,863	\$75,049	\$77,301	\$79,620	\$82,020	\$84,500	\$87,062	\$89,712	\$92,451	\$95,280

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Software maintenance services	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940
<b>TOTAL</b>	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940



		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Clearinghouse Services</b>											
<b>Fixed Fee</b>											
Monthly Regional Cost:		\$52,778	\$54,097	\$55,450	\$57,114	\$58,827	\$60,592	\$62,409	\$64,282	\$66,210	\$68,197
Agency Share: 100.0%		\$52,778	\$54,097	\$55,450	\$57,114	\$58,827	\$60,592	\$62,409	\$64,282	\$66,210	\$68,197
<b>Regional Annual Cost</b>		\$52,778	\$54,097	\$55,450	\$57,114	\$58,827	\$60,592	\$62,409	\$64,282	\$66,210	\$68,197
		\$175,002	\$649,164	\$665,400	\$685,362	\$705,923	\$727,101	\$748,914	\$771,381	\$794,522	\$818,358
		\$7,041,250									

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>E-Purse, Pass Payment &amp; Revalue Transactions</b>											
<b>Variable Costs</b>											
Regional Monthly Qty.		7,908,446	8,417,828	8,828,197	9,206,600	9,721,648	10,217,713	10,686,285	11,046,231	11,350,997	11,646,486
Regional Annual Qty.		94,901,350	101,013,934	105,938,362	110,479,197	116,659,773	122,612,558	128,235,418	132,554,773	136,211,960	139,757,936
Cost per Transaction:		\$0.004	\$0.004	\$0.004	\$0.004	\$0.004	\$0.004	\$0.003	\$0.003	\$0.003	\$0.003
<b>Regional Annual Cost</b>		\$389,803	\$404,656	\$423,753	\$441,917	\$466,639	\$497,638	\$534,706	\$577,684	\$628,636	\$689,274
		\$3,904,285									

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Revalue Transactions (3rd party)</b>											
<b>Variable Costs</b>											
Regional Monthly Qty.		24,750	29,119	33,022	36,600	40,255	43,737	47,040	49,985	52,660	55,165
Regional Annual Qty.		297,004	349,432	396,263	439,194	483,057	524,850	564,478	599,823	631,923	661,974
Cost per Transaction:		\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04
<b>Regional Annual Cost</b>		\$5,940	\$13,977	\$15,851	\$17,568	\$19,322	\$20,984	\$22,579	\$23,993	\$25,277	\$26,479
		\$181,880									

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Financial Management</b>											
<b>Fixed Fee</b>											
Monthly Regional Cost:		\$11,556	\$11,844	\$12,141	\$12,505	\$12,880	\$13,267	\$13,665	\$14,075	\$14,497	\$14,932
Agency Share: 100.0%		\$11,556	\$11,844	\$12,141	\$12,505	\$12,880	\$13,267	\$13,665	\$14,075	\$14,497	\$14,932
<b>Regional Annual Cost</b>		\$11,556	\$11,844	\$12,141	\$12,505	\$12,880	\$13,267	\$13,665	\$14,075	\$14,497	\$14,932
		\$104,004	\$142,328	\$145,892	\$150,083	\$154,565	\$159,202	\$163,978	\$168,897	\$173,964	\$179,183
		\$1,541,674									

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Network Management</b>											
<b>Fixed Fee</b>											
Monthly Regional Cost:		\$13,587	\$13,927	\$14,275	\$14,703	\$15,144	\$15,599	\$16,067	\$16,549	\$17,045	\$17,556
Agency Share: 100.0%		\$13,587	\$13,927	\$14,275	\$14,703	\$15,144	\$15,599	\$16,067	\$16,549	\$17,045	\$17,556
<b>Regional Annual Cost</b>		\$13,587	\$13,927	\$14,275	\$14,703	\$15,144	\$15,599	\$16,067	\$16,549	\$17,045	\$17,556
		\$122,283	\$187,124	\$171,900	\$176,439	\$181,732	\$187,184	\$192,809	\$198,584	\$204,541	\$210,677
		\$1,812,684									

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Revalue Network Support</b>											
<b>Fixed Fee</b>											
Monthly Regional Cost:		\$10,556	\$10,819	\$11,090	\$11,423	\$11,765	\$12,118	\$12,482	\$12,866	\$13,242	\$13,639
Agency Share: 100.0%		\$10,556	\$10,819	\$11,090	\$11,423	\$11,765	\$12,118	\$12,482	\$12,866	\$13,242	\$13,639
<b>Regional Annual Cost</b>		\$10,556	\$10,819	\$11,090	\$11,423	\$11,765	\$12,118	\$12,482	\$12,866	\$13,242	\$13,639
		\$95,004	\$129,828	\$133,880	\$137,072	\$141,185	\$145,420	\$149,783	\$154,276	\$158,904	\$163,672
		\$1,408,222									

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Variable Costs</b>											
No. of retail Sites/month:		127	127	127	127	127	127	127	127	127	127
Agency Share: 100.0%		127	127	127	127	127	127	127	127	127	127
Cost per Site/month:		\$8.10	\$8.30	\$8.51	\$8.77	\$9.03	\$9.30	\$9.58	\$9.87	\$10.16	\$10.47
<b>Regional Annual Cost</b>		\$8,172	\$12,649	\$12,969	\$13,365	\$13,762	\$14,172	\$14,600	\$15,042	\$15,484	\$15,935
		\$1,824,753									

**REGIONAL COST SUMMARY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
DEPOT MAINTENANCE	\$0	\$44,049	\$45,371	\$46,732	\$48,134	\$49,578	\$51,065	\$52,597	\$54,175	\$55,800
ON-CALL MAINTENANCE	\$0	\$55,290	\$56,949	\$58,658	\$60,417	\$62,230	\$64,097	\$66,020	\$68,000	\$70,040
TECHNICAL SUPPORT MAINTENANCE	\$0	\$72,863	\$75,049	\$77,301	\$79,620	\$82,008	\$84,468	\$87,002	\$89,612	\$92,301
SOFTWARE MAINTENANCE	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940	\$380,940
<b>TOTAL MAINTENANCE:</b>	<b>\$380,940</b>	<b>\$553,143</b>	<b>\$558,309</b>	<b>\$563,630</b>	<b>\$569,111</b>	<b>\$574,766</b>	<b>\$580,570</b>	<b>\$586,569</b>	<b>\$592,728</b>	<b>\$599,081</b>

CUSTOMER SERVICE	\$181,639	\$265,232	\$263,610	\$273,407	\$284,250	\$294,066	\$305,350	\$316,445	\$327,598	\$339,129
INSTITUTIONAL PROGRAMS	\$124,002	\$169,464	\$173,700	\$178,911	\$184,278	\$189,807	\$195,501	\$201,366	\$207,407	\$213,629
CARD PROCUREMENT & DIST.	\$100,745	\$137,848	\$141,293	\$145,531	\$149,897	\$154,394	\$159,026	\$163,797	\$168,711	\$173,772
FARE CARD MANAGEMENT	\$56,925	\$77,796	\$79,740	\$82,132	\$84,596	\$87,134	\$89,748	\$92,441	\$95,214	\$98,070
CLEARINGHOUSE SERVICES	\$670,745	\$1,067,197	\$1,105,004	\$1,144,847	\$1,191,884	\$1,115,932	\$1,156,199	\$1,193,038	\$1,228,435	\$1,264,111
FINANCIAL MANAGEMENT	\$104,004	\$142,128	\$145,692	\$150,063	\$154,565	\$159,202	\$163,978	\$168,897	\$173,964	\$179,183
NETWORK MANAGEMENT	\$122,283	\$167,124	\$171,300	\$176,439	\$181,732	\$187,184	\$192,800	\$198,584	\$204,541	\$210,677
REVALUE NETWORK SUPPORT	\$101,176	\$142,477	\$146,049	\$150,438	\$154,946	\$159,593	\$164,383	\$169,318	\$174,388	\$179,628
<b>TOTAL SERVICES:</b>	<b>\$1,461,519</b>	<b>\$2,159,266</b>	<b>\$2,226,388</b>	<b>\$2,301,767</b>	<b>\$2,386,149</b>	<b>\$2,447,312</b>	<b>\$2,503,885</b>	<b>\$2,560,257</b>	<b>\$2,618,199</b>	<b>\$2,676,819</b>

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Services										
Fixed Costs	\$1,252,674	\$1,711,956	\$1,754,772	\$1,807,415	\$1,861,638	\$1,917,487	\$1,975,011	\$2,034,262	\$2,095,290	\$2,158,148
Variable Costs	\$208,845	\$447,310	\$471,616	\$494,352	\$524,512	\$549,826	\$571,874	\$596,623	\$618,909	\$648,671

**REGIONAL Revised BAFO Costs**

<b>VENDOR - ANNUAL OPERATING COSTS:</b>	<b>\$1,842,459</b>	<b>\$2,712,409</b>	<b>\$2,784,696</b>	<b>\$2,865,397</b>	<b>\$2,955,260</b>	<b>\$2,922,068</b>	<b>\$3,007,554</b>	<b>\$3,090,444</b>	<b>\$3,172,985</b>	<b>\$3,257,281</b>
(Maintenance & Services)										

**SERVICES PROVIDED BY KING COUNTY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$67,342	\$10,972	\$10,750	\$10,926	\$32,394	\$33,736	\$37,058	\$37,376	\$38,230	\$39,554
Agency Share: 100.0%	\$67,342	\$10,972	\$10,750	\$10,926	\$32,394	\$33,736	\$37,058	\$37,376	\$38,230	\$39,554
<b>Regional Annual Cost</b>	<b>\$67,342</b>	<b>\$10,972</b>	<b>\$10,750</b>	<b>\$10,926</b>	<b>\$32,394</b>	<b>\$33,736</b>	<b>\$37,058</b>	<b>\$37,376</b>	<b>\$38,230</b>	<b>\$39,554</b>

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$3,777	\$1,718	\$1,770	\$1,823	\$1,878	\$1,934	\$1,992	\$2,052	\$2,113	\$2,177
Agency Share: 100.0%	\$3,777	\$1,718	\$1,770	\$1,823	\$1,878	\$1,934	\$1,992	\$2,052	\$2,113	\$2,177
<b>Regional Annual Cost</b>	<b>\$3,777</b>	<b>\$1,718</b>	<b>\$1,770</b>	<b>\$1,823</b>	<b>\$1,878</b>	<b>\$1,934</b>	<b>\$1,992</b>	<b>\$2,052</b>	<b>\$2,113</b>	<b>\$2,177</b>

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$45,324	\$20,621	\$21,240	\$21,877	\$22,533	\$23,209	\$23,905	\$24,623	\$25,361	\$26,122
Agency Share: 100.0%	\$45,324	\$20,621	\$21,240	\$21,877	\$22,533	\$23,209	\$23,905	\$24,623	\$25,361	\$26,122
<b>Regional Annual Cost</b>	<b>\$45,324</b>	<b>\$20,621</b>	<b>\$21,240</b>	<b>\$21,877</b>	<b>\$22,533</b>	<b>\$23,209</b>	<b>\$23,905</b>	<b>\$24,623</b>	<b>\$25,361</b>	<b>\$26,122</b>

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Agency Share: 100.0%	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
<b>Regional Annual Cost</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

<b>KCM Services - ANNUAL OPERATING COSTS:</b>	<b>\$853,422</b>	<b>\$152,282</b>	<b>\$150,244</b>	<b>\$152,987</b>	<b>\$411,260</b>	<b>\$428,035</b>	<b>\$468,597</b>	<b>\$473,133</b>	<b>\$484,120</b>	<b>\$500,770</b>
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<b>TOTAL ANNUAL OPERATING COSTS:</b>	<b>\$2,695,981</b>	<b>\$2,864,691</b>	<b>\$2,934,940</b>	<b>\$3,018,384</b>	<b>\$3,366,520</b>	<b>\$3,350,103</b>	<b>\$3,476,151</b>	<b>\$3,563,577</b>	<b>\$3,657,105</b>	<b>\$3,758,051</b>
(Vendor and KCM services)										

**KCM Service Assumptions:**

1. Estimates for Year 1 (2005) are preliminary. Actual costs will depend greatly upon roll-out strategy, institutional account demographics, and other variables.
2. Estimates for Year 1 (2005) assume incentives are established to encourage unaffiliated customers to obtain their cards via telephone, mail or internet.
3. Estimates for Year 1 (2005) assume aggressive marketing campaign to smaller institutional programs.
4. Estimates for Year 1 (2005) assume that EDPasses are distributed to the institution rather than to the individual.
5. Estimates include costs for marketing materials (information packets, etc.) These costs are based on the preliminary concepts developed by KCM marketing staff, actual costs may differ when the regional plan is established.
6. King County's cost estimates are based upon ridership and cash conversion assumptions (including RRFPP) as identified in RFC Project Capital Cost Worksheets Assumption Worksheet No. 3. This data was used to insure that KCM estimates are consistent with other pricing estimates for the project. Actual costs will be used once they are known.
7. For the King County Card Procurement, Inventory, Warehousing and Distribution Option, there will be an increase in capital costs to include modifications required to CARM for inventory management (\$72,319).

**ASSUMPTION WORKSHEET NO. 1**

**PROJECTED RIDERSHIP AND ASSUMPTIONS**

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Community Transit</b>	7,263,529	7,336,164	7,702,973	7,895,547	7,974,502	8,054,247	8,134,790	8,216,138	8,298,299	8,381,282	8,465,095	8,549,746	8,635,243	8,721,990
pass trips (62%)	4,503,388	4,548,422	4,775,843	4,895,239	4,944,191	4,993,633	5,043,570	5,094,006	5,144,945	5,196,395	5,248,359	5,300,843	5,353,851	5,407,390
cash trips (38%)	2,760,141	2,787,742	2,927,130	3,000,308	3,030,311	3,060,614	3,091,220	3,122,132	3,153,354	3,184,887	3,216,736	3,248,903	3,281,392	3,314,206
<b>Everett Transit</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pass trips (36%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cash trips (64%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>King County Metro</b>	0	93,582,960	94,099,380	94,905,504	95,951,868	97,220,064	97,605,552	98,021,712	98,820,432	99,531,672	100,223,064	100,902,948	101,587,444	102,298,556
pass trips (62%)	0	58,021,435	58,341,616	58,841,412	59,490,158	60,276,440	60,515,442	60,773,461	61,268,668	61,709,637	62,138,300	62,559,828	62,984,215	63,425,105
cash trips (38%)	0	35,561,525	35,757,764	36,064,092	36,461,710	36,943,624	37,090,110	37,248,251	37,551,764	37,822,035	38,084,764	38,343,120	38,603,229	38,873,451
<b>Pierce Transit</b>	11,717,261	11,650,336	12,131,000	12,492,000	12,333,000	12,578,000	12,828,000	13,083,000	13,343,000	13,609,000	13,881,000	14,158,620	14,441,792	14,730,628
pass trips (36%)	4,218,214	4,194,121	4,367,160	4,497,120	4,439,880	4,528,080	4,618,080	4,709,880	4,803,480	4,899,240	4,997,160	5,097,103	5,199,045	5,303,026
cash trips (64%)	7,499,047	7,456,215	7,763,840	7,994,880	7,893,120	8,049,920	8,209,920	8,373,120	8,539,520	8,709,760	8,883,840	9,061,517	9,242,747	9,427,602
<b>Sound Transit</b>	6,312,744	7,848,300	8,825,361	9,519,624	10,277,451	11,366,330	12,049,926	12,834,936	15,724,424	18,617,454	21,674,093	22,834,409	23,298,470	23,866,347
pass trips (63%)	3,977,029	4,944,429	5,559,977	5,997,363	6,474,794	7,160,788	7,590,823	7,960,010	9,906,387	11,854,996	13,694,679	14,385,678	14,678,036	15,035,799
cash trips (37%)	2,335,715	2,903,871	3,265,384	3,522,261	3,802,657	4,205,542	4,459,103	4,674,926	5,818,037	6,962,458	8,019,414	8,448,731	8,620,434	8,830,548
<b>WSF</b>	3,602,239	3,638,261	3,674,644	3,711,390	3,748,504	3,785,989	3,823,849	3,862,088	3,900,709	3,939,716	3,979,113	4,018,904	4,059,093	4,099,684
pass trips (50%)	1,801,120	1,819,131	1,837,322	1,855,695	1,874,252	1,892,995	1,911,925	1,931,044	1,950,354	1,969,858	1,989,556	2,009,452	2,029,547	2,049,842
cash trips (50%)	1,801,120	1,819,131	1,837,322	1,855,695	1,874,252	1,892,995	1,911,925	1,931,044	1,950,354	1,969,858	1,989,556	2,009,452	2,029,547	2,049,842
<b>Kitsap Transit</b>	3,470,802	3,492,202	3,513,602	3,535,002	3,556,402	3,577,802	3,599,202	3,620,602	3,642,002	3,663,402	3,684,802	3,706,202	3,727,602	3,749,002
pass trips (69%)	2,394,853	2,409,619	2,424,385	2,439,151	2,453,917	2,468,683	2,483,449	2,498,215	2,512,981	2,527,747	2,542,513	2,557,279	2,572,045	2,586,811
cash trips (31%)	1,075,949	1,082,583	1,089,217	1,095,851	1,102,485	1,109,119	1,115,753	1,122,387	1,129,021	1,135,655	1,142,289	1,148,923	1,155,557	1,162,191

**TOTALS:**

<b>Annual Ridership</b>	32,366,575	127,548,223	129,946,960	132,059,067	133,841,727	136,582,432	138,040,319	139,438,476	143,728,666	147,942,526	151,907,167	154,170,829	155,749,644	157,465,813
pass trips	16,894,604	75,937,157	77,306,304	78,525,981	79,677,193	81,320,619	82,163,289	82,966,616	85,586,816	88,157,873	90,570,567	91,910,183	92,816,739	93,807,972
cash trips	15,471,971	51,611,066	52,640,656	53,533,086	54,164,534	55,261,814	55,877,030	56,471,860	58,142,050	59,784,653	61,336,600	62,260,646	62,932,905	63,657,841

**ASSUMPTIONS**

<b>RIDERSHIP GROWTH</b>		<b>PASS/CASH RIDERSHIP RATIO</b>	
Community Transit	o Ridership numbers for each specific year provided by CT	Community Transit	o 62% pass / 38% cash
Everett Transit	o 2% annual growth from 2001 to 2014	Everett Transit	o 36% pass / 64% cash
King County Metro	o Ridership numbers for each specific year provided by KCM	King County Metro	o 62% pass / 38% cash
Pierce Transit	o Ridership numbers for each specific year provided by PT	Pierce Transit	o 36% pass / 64% cash
Sound Transit	o Ridership numbers for each specific year provided by ST	Sound Transit	o 63% pass / 37% cash
WSF	o Numbers reflect "transactions" based on one-way fare collection (50% of ridership) 1% annual growth from 2000 to 2014	WSF	o 50% pass / 50% cash
Kitsap Transit	o 8% total growth between 2001 and 2014	Kitsap Transit	o 69% pass / 31% cash
		<b>% of Ridership - 2005</b>	
		Community Transit	6.0%
		Everett Transit	0.0%
		KCM	71.7%
		Pierce Transit	9.2%
		Sound Transit	7.7%
		WSF	2.8%
		Kitsap Transit	2.7%
			100.0%

# ASSUMPTION WORKSHEET NO. 2

## REGIONAL COST ALLOCATION SHARES

	CAPITAL % SHARE	OPERATING % SHARE
Community Transit	11.90%	6.0%
Everett Transit		
King County Metro	56.77%	71.7%
Pierce Transit	8.90%	9.2%
Sound Transit	10.96%	7.7%
WSF	5.42%	2.8%
Kitsap Transit	6.05%	2.7%
<b>total</b>	<b>100.00%</b>	<b>100.0%</b>

## ESTIMATED EQUIPMENT QUANTITIES

	CT	ET	KCM	PT	ST	WSF	KT	TOTAL
1. On-Board FTP	290		1,397	172	198	0	106	2,163
2. Stand-alone FTP (ST configuration)	0		0	0	26	0	0	26
3. Stand-alone FTP (WSF configuration)	0		0	0	0	62	3	65
4. Portable FTP (verifier only)	0		0	0	16	0	0	16
5. Portable FTP (Full function)	0		50	0	0	15	0	65
6. Driver Display Unit	290		1,397	172	198	0	106	2,163
7. Wireless Base/Terminal module	2		7	1	4	0	4	18
8. Wireless On-Board Vehicle Module	290		1,397	172	198	0	106	2,163
9. Data Acquisition Computer (DAC)	2		7	1	4	4	4	22
10. Back Office client Computer	1		1	1	1	1	1	6
11. Ticket Vending Machines - upgrade kits	1		22	6	34	1	1	34
12. Customer Service Terminal	1		3	4	1	0	1	32
13. Photo ID System								10

## ESTIMATED TRAINING CLASSES

	CT	ET	KCM	PT	ST	WSF	KT	TOTAL
A.1 RFCS OVERVIEW	2		5	3	1	2	2	15
A.2 SYSTEMS OPERATIONS	2		5	3	1	2	2	15
A.3 REPAIR AND MAINTENANCE	2		5	2	1	2	2	14
A.4 DATA MANAGEMENT	2		5	2	1	2	2	14
A.5 CUSTOMER SERVICE & MARKETING	2		5	1	1	2	2	13
A.6 TRAIN-THE-TRAINER (Operations/Maintenance)	2		5	1	1	3	2	14
A.7 TRAIN-THE-TRAINER (Retail Outlets)	2		5	1	1	0	2	11



# ASSUMPTION WORKSHEET NO. 3

## NUMBER OF FARE CARDS

### ANNUAL QUANTITY CALCULATION

#### PASS HOLDERS

# of smart cards required based on 2000 pass qty's.

43,000
3,000
3,200
21,000
77,000
15,500
55,000
10,000
1,400
15,000
2,600
50,000
39,245
55,500

- Current Pass Holders
- 2000 Puget Passes sold monthly (monthly quantity)
- 3 month (quarterly quantity)
- annual (total)
- corporate
- 2000 KCM Flexpasses
- Employee passes
- UPass
- EDpass
- GOPass
- Microsoft badge/pass
- Regional Fare permits/pass
- TVM passes
- KT monthly passes
- WSF cards

PROJECTED ANNUAL # OF SMART CARDS: 389,645

#### ANNUAL QUANTITY CALCULATION

a. Annual replacement of Fare Cards in circulation:

	2000	2001	2002	2003	2004
(I.E. Total Number of Smart Card Pass Riders)	389,645				
1. 100% of passes convert to smart card					
2. (pass ridership projections / 211 trips per pass)					
b. Annual growth in Fare Cards:					
c. Annual replacement of Fare Cards: (yrs 2-4 (5%), yrs 5-10 (25%))					
d. New Fare Cards Required: (b.-c.)					

e. Annual Trips taken by Cash Riders:

	2000	2001	2002	2003	2004
f. Increase in Annual Trips by Cash Riders:					
g. Annual Round Trips taken by Cash Riders:					
h. Average number of workdays per customer, per year:					
i. (254 weekdays - 10 vacation days - 12 holidays - 5 sick days)					
j. Average number of NEW individual cash riders:					
k. Total Number of Cash Riders					
l. Cash Riders convert to Smart Cards (e-purse): (Year 1 - 25%, Years 2-10 - 10%)					
m. Annual Total of Cash Riders using Smart Cards:					
n. Share of Total Cash Riders Using Smart Cards:					
o. Annual replacement of Fare Cards: (yrs 2-4 (5%), yrs 5-10 (25%))					
p. New Fare Cards Required: (k. + m.)					

TOTAL NUMBER OF NEW FARE CARDS PER ANNUM: (b. + c. + k. + m.)

TOTAL NUMBER OF NEW FARE CARDS TO DATE: (a. + b. + i.)

TOTAL NUMBER OF FARE CARDS IN CIRCULATION:

TOTAL NUMBER OF FARE CARDS REPLACED PER ANNUM:

TOTAL NUMBER OF FARE CARDS REPLACED TO DATE:

SHARE OF CARDS ISSUED THAT HAVE BEEN REPLACED TO DATE:

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
377,617	385,406	389,399	393,207	405,625	417,810	429,244	435,593	439,890	444,588						
377,617	7,789	3,994	3,807	12,418	12,185	11,435	6,349	4,296	4,698						
377,617	18,881	19,270	19,660	101,406	104,452	107,311	108,898	109,972	111,147						
377,617	26,670	23,264	23,468	113,824	116,636	118,746	115,247	114,269	115,845						
54,164,534	55,261,814	55,877,030	56,471,860	58,142,050	59,784,653	61,336,600	62,260,646	62,932,905	63,657,841						
1,097,279	615,216	594,830	1,670,190	1,642,603	1,551,947	924,047	672,259	724,936	724,936						
27,082,267	548,640	307,608	297,415	835,095	821,302	775,973	462,023	336,129	362,466						
227	227	227	227	227	227	227	227	227	227						
119,305	2,417	1,355	1,310	3,679	3,618	3,418	2,035	1,481	1,597						
119,305	121,722	123,077	124,387	128,066	131,684	135,103	137,138	138,619	140,216						
29,826	9,190	8,406	7,697	7,295	6,927	6,576	6,122	5,658	5,252						
29,826	39,016	47,422	55,119	62,413	69,340	75,917	82,039	87,697	92,949						
25.00%	32.05%	36.53%	44.31%	46.74%	52.66%	56.19%	59.82%	63.26%	66.29%						
29,826	10,681	10,357	10,068	21,074	22,530	23,911	25,101	26,168	27,176						

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
407,443	444,794	478,415	511,950	646,849	786,016	928,673	1,069,022	1,209,459	1,352,479						
407,443	432,216	440,815	452,132	460,456	495,335	516,598	523,961	531,893	542,234						
0	20,372	21,221	22,031	115,186	120,056	124,646	127,877	130,482	133,071						
0	20,372	41,593	63,625	178,810	298,866	423,512	551,390	681,872	814,943						
	4.58%	8.69%	12.43%	27.64%	38.02%	45.60%	51.58%	56.36%	60.26%						

#### ASSUMPTIONS

- 100% of pass holders convert to Smart Cards
- Growth in the number of smart cards required for Pass Holders from 2000 to 2014 is based on overall pass ridership outlined in "Ridership Assumptions" worksheet and assumption of average annual unlinked trips per pass user. (2000 Pass ridership divided by 2000 total passes)
- 5% of fare cards need to be replaced each year due to loss, theft, defect. Beginning in Year 5, 25% of cards are replaced due to loss as well as age.
- 25% of cash riders convert to smart cards in Year 1. 10% of all Non-Smart Card Cash riders Years 2 - 10.

**ASSUMPTION WORKSHEET NO. 4**

**CUSTOMER SERVICE**

(6.11-1)

o The Rate per Call Fee is a variable rate for the volume of calls exceeding 500 per month. This cost only includes variable costs that will be incurred beyond the Fixed Monthly Fee for increased call volumes over 500 per month.

**6 AGENCIES**

Regional

Transactions per month:

7,933,196	8,446,947	8,861,219	9,243,199	9,761,902	10,261,451	10,733,325	11,096,216	11,403,657	11,701,651
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**ANNUAL QUANTITIES**

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	YEAR 9	YEAR 10
Call Volumes	9,520	10,136	10,633	11,092	11,714	12,314	12,880	13,315	13,684	14,042

(one call per 10,000 transactions)

**MONTH**

793	845	886	924	976	1,026	1,073	1,110	1,140	1,170
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**Call Volume Assumptions**

o One customer call per 10,000 transactions (Pass payment, E-purse and Revalue)

**ASSUMPTION WORKSHEET NO. 5**

**INSTITUTIONAL PROGRAMS**

(6.11-2)

o The Rate per Institutional Program Fee is a variable rate for the number of Institutional programs being supported each month. This cost only includes variable costs that will be incurred in addition to the Fixed Monthly Fee.

**THE COST FOR EACH PROGRAM HAS BEEN INCLUDED IN THE FIXED FEE. THERE IS NO VARIABLE RATE.**

ANNUAL QUANTITIES	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	YEAR 9	YEAR 10
# of Institutional Programs	1,348	1,388	1,430	1,473	1,517	1,563	1,610	1,658	1,708	1,759
		+3%	+3%	+3%	+3%	+3%	+3%	+3%	+3%	+3%

**Institutional Program quantity assumptions**

o Commuter Bonus accounts: 936 (30% duplication with other accounts) **665**

o Current number of all other subsidized programs:

- CT - 1
- PT - 52
- KT - 23
- WSF - 0
- KCM - 757

Subtotal:..... **833**

**TOTAL: 1,498**

o Assumes 90% of current institutional programs convert to Smart Card:  
 $1,498 \times 90\% = \underline{1,348}$

o Assumes 3% annual growth rate of Institutional accounts over 10 years.

**ASSUMPTION WORKSHEET NO. 6**

**CARD PROCUREMENT & DISTRIBUTION**

(6.II-3)

o The Rate per Card Shipment Fee is a variable rate for the number of Card Shipments made each month. This cost only includes variable costs that will be incurred in addition to the Fixed Monthly Fee.

**ANNUAL QUANTITIES**

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	YEAR 9	YEAR 10
# of Card Shipments	12	12	12	12	12	12	12	12	12	12

Monthly:

1 1 1 1 1 1 1 1 1 1 1

**Card Shipment assumptions**

- o Assumes infrequent, large quantity shipment of cards from Contractor to KCM warehouse
- o Includes shipments related to institutional accounts

**ASSUMPTION WORKSHEET NO. 7**

**REVALUE NETWORK SUPPORT SERVICES (6.11-9)**

o The Rate per Retail Site Fee is a variable rate for the number of sites maintained and managed each month. This cost should only include variable costs that will be incurred in addition to the Fixed Monthly Fee.

ANNUAL QUANTITIES	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	YEAR 9	YEAR 10
# of Retail Sites	127	127	127	127	127	127	127	127	127	127

**Retail Site quantity assumptions**

o # of retail sites:

- KT - 27
- WSF - 0
- CT - 25
- ET - 40
- KCM - 65
- PT - 52
- Total - 169**

o 75% of current retail sites will convert to Smart Card Revalue Network (**127 retail sites**)

o Annual adjustments of number of retail sites

\* Years 1 - 10 - No change

**ASSUMPTION WORKSHEET NO. 8**

**E-PURSE TRANSACTIONS**

<b>REGIONAL</b>	1	2	3	4	5	6	7	8	9	10
<b>ANNUAL QUANTITY CALCULATION</b>	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>PASS TRIPS</b>										
Annual Trips by Pass Holders	79,677,193	81,320,619	82,163,289	82,966,616	85,586,816	88,157,873	90,570,567	91,910,183	92,816,739	93,807,972
Monthly Trips by Pass Holders	6,639,766	6,776,718	6,846,941	6,913,885	7,132,235	7,346,489	7,547,547	7,659,182	7,734,728	7,817,331
Assumption: 15% of Pass Trips require E-purse transaction:	995,965	1,016,508	1,027,041	1,037,083	1,069,835	1,101,973	1,132,132	1,148,877	1,160,209	1,172,600
<b>CASH TRIPS</b>										
Annual Trips by Cash Riders	54,164,534	55,261,814	55,877,030	56,471,860	58,142,050	59,784,653	61,336,600	62,260,646	62,932,905	63,657,841
Monthly Trips by Cash Riders	4,513,711	4,605,151	4,656,419	4,705,988	4,845,171	4,982,054	5,111,383	5,188,387	5,244,409	5,304,820
Monthly Cash trips previously converted to Smart Card:	0	1,128,428	1,476,100	1,794,132	2,085,318	2,361,303	2,623,378	2,872,179	3,103,799	3,317,860
Remaining Monthly Trips taken by Cash Riders:		3,476,723	3,180,319	2,911,856	2,759,853	2,620,751	2,488,005	2,316,209	2,140,609	1,986,960
Monthly Cash Trips converting to Smart Card (E-Purse): (Year 1 25% of Cash trips, Years 2-10 10% of Cash trips)	1,128,428	347,672	318,032	291,186	275,985	262,075	248,801	231,621	214,061	198,696
<b>TOTAL CASH TRIPS USING E-PURSE:</b> (f. + h.)	1,128,428	1,476,100	1,794,132	2,085,318	2,361,303	2,623,378	2,872,179	3,103,799	3,317,860	3,516,556
<b>TOTAL NUMBER OF E-PURSE TRANSACTIONS PER MONTH:</b> (Pass trips + Cash trips) (c. + i.)	2,124,393	2,492,608	2,821,173	3,122,400	3,431,138	3,725,352	4,004,311	4,252,677	4,478,070	4,689,156

**ASSUMPTIONS**

- o Any fare transaction that requires full or partial payment with the E-purse will be considered an E-purse transaction.
- o 15% of Pass trips require E-purse transaction
- o Year 1 - 25% of Cash trips convert to Smart Card - using E-purse  
Years 2-10 - 10% of remaining Cash trips convert to Smart Card - using E-purse (annually)
- o Based on individual agency ridership projections (2005-2014) for both Cash & Pass trips.

**ASSUMPTION WORKSHEET NO. 9**

**PASS PAYMENT TRANSACTIONS**

<b>REGIONAL</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>ANNUAL QUANTITY CALCULATION</b>										
<b>PASS TRIPS</b>										
Annual Trip Transactions by Pass Holders:	79,677,193	81,320,619	82,163,289	82,966,616	85,586,816	88,157,873	90,570,567	91,910,183	92,816,739	93,807,972
Monthly Trip Transactions taken by Pass Holders:	6,639,766	6,776,718	6,846,941	6,913,885	7,132,235	7,346,489	7,547,547	7,659,182	7,734,728	7,817,331
Assumption: 85% of Pass Trips NOT requiring an E-purse transaction:	5,643,801	5,760,210	5,819,900	5,876,802	6,062,399	6,244,516	6,415,415	6,510,305	6,574,519	6,644,731

**TOTAL NUMBER OF PASS PAYMENT TRANSACTIONS PER MONTH:** 5,643,801 5,760,210 5,819,900 5,876,802 6,062,399 6,244,516 6,415,415 6,510,305 6,574,519 6,644,731

**ASSUMPTIONS**

- o 85% of Smart Card Pass trips do not require any E-purse transaction.
- o Pass Payment Transactions are only those transactions not requiring any E-purse activity. (85% of Pass Riders)
- o Based on individual agency ridership projections (2005-2014) for Pass trips.

**ASSUMPTION WORKSHEET NO. 10**

**REVALUE TRANSACTIONS**

**REGIONAL**

**QUANTITY CALCULATION**

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Annual Number of Pass Holders using Smart Card:	377,617	385,406	389,399	393,207	405,625	417,810	429,244	435,593	439,890	444,588
Assumption: Number of Pass Holders who revalue once a month:	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Number of revalue transactions per month for pass holders:	75,523	77,081	77,880	78,641	81,125	83,562	85,849	87,119	87,978	88,918

Number of Cash Riders using Smart Card (E-purse):	29,826	39,016	47,422	55,119	62,413	69,340	75,917	82,039	87,697	92,949
Assumption: Number of times/month card is revalued:	3	3	3	3	3	3	3	3	3	3
Number of revalue transactions per month for pass holders:	89,479	117,048	142,266	165,356	187,240	208,021	227,750	246,116	263,090	278,846

<b>TOTAL NUMBER OF REVALUE TRANSACTIONS PER MONTH:</b>	<b>165,002</b>	<b>194,129</b>	<b>220,146</b>	<b>243,997</b>	<b>268,365</b>	<b>291,583</b>	<b>313,599</b>	<b>333,235</b>	<b>351,068</b>	<b>367,763</b>
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Number of revalue transactions/month through 3rd party retailers:  
 (15% of total revalue transactions) 24,750 29,119 33,022 36,600 40,255 43,737 47,040 49,985 52,660 55,165

Number of revalue transactions/month NOI through 3rd party retailers:  
 (85% of total revalue transactions) 140,252 165,009 187,124 207,397 228,110 247,846 266,559 283,250 298,408 312,599

REGIONAL	(Agency % share)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Number of revalue transactions/month through 3rd party retailers:		24,750	29,119	33,022	36,600	40,255	43,737	47,040	49,985	52,660
Number of revalue transactions/month NOI through 3rd party retailers:		140,252	165,009	187,124	207,397	228,110	247,846	266,559	283,250	298,408
<b>TOTAL NUMBER OF REVALUE TRANSACTIONS PER MONTH:</b>		<b>165,002</b>	<b>194,129</b>	<b>220,146</b>	<b>243,997</b>	<b>268,365</b>	<b>291,583</b>	<b>313,599</b>	<b>333,235</b>	<b>351,068</b>

**ASSUMPTIONS**

- o 20% of Pass Holders using Smart Card would revalue once a month. This includes:
  - Individual pass holders
  - Employees with subsidized passes using electronic coupons
  - Administrative changes to subsidized passes
- o Cash riders using Smart Card (E-purse) would revalue 3 times a month assuming:
  - Reload discount @ \$20
  - Primarily infrequent riders, some requiring E-purse upgrades
- o Annual number of customers holding smart cards based assumptions defined on "Number of Fare Cards" worksheet over the 10-year contract.
- o Only revalue transactions conducted through 3rd party retailers are charged against the Revalue Transaction Fees. All other revalue transactions are charged against the Pass Payment/ E-purse Transaction Fees.



# King County Metro

71.7% Revised BAFO Costs

## OPERATIONAL COSTS

### Depot Maintenance:

On-Board FTP	Price per Event	quantities	quantities	Failure Rate (5%)
Stand-Alone FTP - ST config.	\$460	0	70	
Stand-Alone FTP - WT config.	\$460	0	0	
Portable FTP - verifier only	\$354	0	0	
Portable FTP - full function	\$354	50	3	
DDU	\$138	1,397	70	
TVM Integration Kit	\$186	0	0.0	
Wireless Data Sys-Base	\$332	7	0.4	
Wireless Data Sys-On-Board	\$115	1,397	70	
<b>TOTAL</b>				

### On-Site Maintenance:

Monthly Cost/unit	quantities	Monthly Cost
DAC	7	\$316
Back Office Computer	1	\$139
CST	22	\$1,150
Photo ID	3	\$333
<b>TOTAL</b>		\$1,937

### Support Maintenance:

Monthly Cost/unit	quantities	Monthly Cost
On-Board FTP	1,397	\$810
Stand-Alone FTP	0	\$0
Portable FTP	50	\$94
DDU	1,397	\$1,522
Wireless Data Sys-Base	7	\$18
Wireless Data Sys-On-Board	1,397	\$908
DAC	7	\$38
Back Office Computer	1	\$17
TVM Integration Kit	0	\$0
CST	22	\$137
Photo ID	3	\$40
<b>TOTAL</b>		\$3,592

### Software Maintenance:

Monthly Cost/unit	Agency Share	Monthly Cost
Software maintenance services	71.7%	\$22,758
<b>TOTAL</b>		\$22,758

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$8,100	\$8,343	\$8,593	\$8,851	\$9,116	\$9,390	\$9,671	\$9,962	\$10,260
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$885	\$912	\$939	\$967	\$996	\$1,026	\$1,057	\$1,088	\$1,121
	\$9,636	\$9,925	\$10,223	\$10,529	\$10,845	\$11,171	\$11,506	\$11,851	\$12,206
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$116	\$120	\$123	\$127	\$131	\$135	\$139	\$143	\$147
	\$8,030	\$8,271	\$8,519	\$8,774	\$9,038	\$9,309	\$9,588	\$9,876	\$10,172
<b>TOTAL</b>	\$26,767	\$27,570	\$28,397	\$29,249	\$30,126	\$31,030	\$31,951	\$32,920	\$33,907

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$3,792	\$3,906	\$4,023	\$4,143	\$4,268	\$4,396	\$4,528	\$4,663	\$4,803
	\$1,666	\$1,716	\$1,767	\$1,820	\$1,875	\$1,931	\$1,989	\$2,049	\$2,110
	\$13,799	\$14,213	\$14,640	\$15,079	\$15,531	\$15,997	\$16,477	\$16,971	\$17,481
	\$3,992	\$4,112	\$4,235	\$4,362	\$4,493	\$4,628	\$4,767	\$4,910	\$5,057
<b>TOTAL</b>	\$23,249	\$23,946	\$24,655	\$25,405	\$26,167	\$26,952	\$27,760	\$28,593	\$29,451

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$9,720	\$10,011	\$10,312	\$10,621	\$10,940	\$11,268	\$11,606	\$11,954	\$12,313
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$1,122	\$1,156	\$1,190	\$1,226	\$1,263	\$1,301	\$1,340	\$1,380	\$1,421
	\$18,266	\$18,814	\$19,379	\$19,960	\$20,559	\$21,176	\$21,811	\$22,465	\$23,139
	\$210	\$216	\$223	\$229	\$236	\$243	\$251	\$258	\$266
	\$10,893	\$11,219	\$11,556	\$11,903	\$12,260	\$12,628	\$13,006	\$13,397	\$13,799
	\$453	\$466	\$480	\$495	\$510	\$525	\$541	\$557	\$574
	\$199	\$205	\$211	\$217	\$224	\$231	\$237	\$245	\$252
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$1,647	\$1,697	\$1,748	\$1,800	\$1,854	\$1,910	\$1,967	\$2,026	\$2,087
	\$476	\$491	\$505	\$520	\$536	\$552	\$569	\$586	\$603
<b>TOTAL</b>	\$22,986	\$24,275	\$25,604	\$26,972	\$28,381	\$29,832	\$31,327	\$32,867	\$34,453

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098
	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098
<b>TOTAL</b>	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098

**Services**

**Customer Service**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$19,439	\$19,925	\$20,423	\$21,036	\$21,667	\$22,317	\$22,986	\$23,676	\$24,386	\$25,118
\$13,936	\$14,284	\$14,641	\$15,081	\$15,533	\$15,999	\$16,479	\$16,973	\$17,483	\$18,007
\$125,423	\$171,412	\$175,696	\$180,967	\$186,396	\$191,988	\$197,748	\$203,680	\$209,781	\$216,044
<b>KCM Annual Cost</b>									\$1,859,86

**Variable Costs**

Annual Regional Call Volumes:  
 Call Volumes paid by fixed fee  
 Call Volumes paid by variable fee  
 Agency Share: 71.7%  
 Cost per Call: (over 500/mo)

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
9,520	10,136	10,633	11,092	11,714	12,314	12,880	13,315	13,684	14,042
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
3,520	4,136	4,633	5,092	5,714	6,314	6,880	7,315	7,684	8,042
2,523	2,965	3,322	3,650	4,097	4,526	4,932	5,244	5,509	5,765
\$3.80	\$3.90	\$4.00	\$4.12	\$4.24	\$4.16	\$4.29	\$4.42	\$4.55	\$4.69
\$4,734	\$11,565	\$13,287	\$15,040	\$17,384	\$18,830	\$21,160	\$23,181	\$25,066	\$27,039
<b>KCM Annual Cost</b>									\$177,345

**Institutional Programs**

Monthly Regional Cost:  
 Agency Share: 71.7%  
 Regional Annual Cost:

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$13,778	\$14,122	\$14,475	\$14,909	\$15,357	\$15,817	\$16,292	\$16,780	\$17,284	\$17,802
\$9,878	\$10,124	\$10,377	\$10,689	\$11,009	\$11,339	\$11,680	\$12,030	\$12,391	\$12,763
\$68,898	\$121,490	\$124,526	\$128,262	\$132,110	\$136,073	\$140,156	\$144,360	\$148,691	\$153,152
<b>KCM Annual Cost</b>									\$1,517,163

**Variable Costs**

Monthly Regional Programs:  
 Agency Share: 71.7%  
 Cost per Program:

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1,348	1,388	1,430	1,473	1,517	1,563	1,610	1,658	1,708	1,759
966	995	1,025	1,056	1,088	1,120	1,154	1,189	1,224	1,261
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>KCM Annual Cost</b>									\$0

**Fare Card Management**

Monthly Regional Cost:  
 Agency Share: 71.7%  
 KCM Annual Cost

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$6,325	\$6,483	\$6,645	\$6,844	\$7,090	\$7,261	\$7,479	\$7,703	\$7,934	\$8,173
\$4,534	\$4,648	\$4,764	\$4,907	\$5,054	\$5,206	\$5,362	\$5,523	\$5,688	\$5,859
\$40,810	\$55,772	\$57,166	\$58,881	\$60,847	\$62,467	\$64,341	\$66,271	\$68,259	\$70,307
<b>KCM Annual Cost</b>									\$1,023,922

**Card Procurement & Dist.**

Monthly Regional Cost:  
 Agency Share: 71.7%  
 KCM Annual Cost

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$11,167	\$11,446	\$11,732	\$12,084	\$12,446	\$12,820	\$13,204	\$13,601	\$14,009	\$14,429
\$8,006	\$8,206	\$8,411	\$8,663	\$8,923	\$9,191	\$9,466	\$9,750	\$10,043	\$10,344
\$12,051	\$36,469	\$100,929	\$103,957	\$107,076	\$110,288	\$113,596	\$117,004	\$120,514	\$124,130
<b>KCM Annual Cost</b>									\$1,068,913

**Variable Costs**

Annual # of Shipments:  
 Agency Share: 71.7%  
 Cost per Shipment:

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
12	12	12	12	12	12	12	12	12	12
9	9	9	9	9	9	9	9	9	9
\$40.33	\$41.34	\$42.38	\$43.65	\$44.96	\$46.31	\$47.70	\$49.13	\$50.60	\$52.12
\$173	\$356	\$365	\$376	\$387	\$398	\$410	\$423	\$435	\$448
<b>KCM Annual Cost</b>									\$3,771

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$52,778	\$54,097	\$55,450	\$57,114	\$58,827	\$60,592	\$62,409	\$64,282	\$66,210	\$68,197
Agency Share: 71.7%	\$37,837	\$38,782	\$39,752	\$40,945	\$42,173	\$43,439	\$44,742	\$46,084	\$47,466	\$48,890
<b>KCM Annual Cost</b>	\$340,532	\$485,389	\$477,829	\$491,340	\$506,080	\$521,282	\$536,900	\$553,007	\$569,597	\$586,685

# of transactions	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
5,817,680	6,132,853	6,378,557	6,604,849	6,834,726	7,044,258	7,238,358	7,418,070	7,585,828	7,744,366	
69,812,154	73,594,241	76,542,678	79,258,188	82,016,708	84,531,099	86,860,298	89,016,844	91,029,933	92,932,395	
\$0.004	\$0.004	\$0.004	\$0.004	\$0.004	\$0.004	\$0.003	\$0.003	\$0.003	\$0.003	\$0.003
<b>KCM Annual Cost</b>	\$139,624	\$234,377	\$306,171	\$377,033	\$476,067	\$553,593	\$620,581	\$687,051	\$753,050	\$776,797

# of transactions	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
17,744	20,876	23,674	26,238	28,859	31,356	33,723	35,835	37,752	39,548	
212,924	250,510	284,083	314,861	346,306	376,268	404,677	430,016	453,029	474,573	
\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04
<b>KCM Annual Cost</b>	\$4,258	\$10,020	\$11,363	\$12,594	\$13,852	\$15,051	\$16,187	\$17,261	\$18,271	\$19,233

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$11,556	\$11,844	\$12,141	\$12,505	\$12,880	\$13,267	\$13,665	\$14,075	\$14,497	\$14,932
\$8,285	\$8,491	\$8,704	\$8,965	\$9,234	\$9,511	\$9,796	\$10,090	\$10,393	\$10,705
<b>KCM Annual Cost</b>	\$11,892	\$10,447	\$10,758	\$10,808	\$11,432	\$11,956	\$12,480	\$12,976	\$12,497

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$13,587	\$13,927	\$14,275	\$14,703	\$15,144	\$15,599	\$16,067	\$16,549	\$17,045	\$17,556
\$9,741	\$9,984	\$10,234	\$10,541	\$10,857	\$11,183	\$11,518	\$11,864	\$12,220	\$12,586
<b>KCM Annual Cost</b>	\$19,312	\$22,806	\$26,490	\$30,285	\$34,193	\$38,219	\$42,366	\$46,637	\$51,036

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$10,556	\$10,819	\$11,090	\$11,423	\$11,785	\$12,118	\$12,482	\$12,856	\$13,242	\$13,639
\$7,568	\$7,756	\$7,950	\$8,189	\$8,435	\$8,688	\$8,948	\$9,217	\$9,493	\$9,778
<b>KCM Annual Cost</b>	\$8,074	\$9,506	\$9,268	\$10,216	\$10,252	\$10,780	\$11,301	\$11,819	\$12,337

# of Retail Sites	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
127	127	127	127	127	127	127	127	127	127	127
91	91	91	91	91	91	91	91	91	91	91
\$8.10	\$8.30	\$8.51	\$8.77	\$9.03	\$9.30	\$9.58	\$9.87	\$10.16	\$10.47	\$10.78
<b>KCM Annual Cost</b>	\$9,068	\$9,238	\$9,592	\$9,866	\$10,161	\$10,467	\$10,784	\$11,100	\$11,428	\$11,769

**King County Metro**

**COST SUMMARY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>DEPOT MAINTENANCE</b>	\$0	\$26,767	\$27,570	\$28,397	\$29,249	\$30,126	\$31,030	\$31,961	\$32,920	\$33,907
ON-CALL MAINTENANCE	\$0	\$23,249	\$23,946	\$24,665	\$25,405	\$26,167	\$26,952	\$27,760	\$28,593	\$29,451
TECHNICAL SUPPORT MAINTENANCE	\$0	\$42,986	\$44,275	\$45,604	\$46,972	\$48,381	\$49,832	\$51,327	\$52,867	\$54,453
SOFTWARE MAINTENANCE	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098	\$273,098
<b>TOTAL MAINTENANCE:</b>	\$273,098	\$366,099	\$368,889	\$371,763	\$374,723	\$377,772	\$380,912	\$384,146	\$387,478	\$390,909

<b>CUSTOMER SERVICE</b>	\$130,218	\$182,977	\$188,983	\$196,007	\$203,781	\$210,818	\$218,907	\$226,861	\$234,856	\$243,124
INSTITUTIONAL PROGRAMS	\$88,898	\$121,490	\$124,526	\$128,262	\$132,110	\$136,073	\$140,156	\$144,360	\$148,691	\$153,152
CARD PROCUREMENT & DIST.	\$72,225	\$98,824	\$101,293	\$104,332	\$107,462	\$110,686	\$114,007	\$117,427	\$120,950	\$124,578
FARE CARD MANAGEMENT	\$40,810	\$55,772	\$57,166	\$58,881	\$60,647	\$62,467	\$64,341	\$66,271	\$68,259	\$70,307
CLEARINGHOUSE SERVICES	\$484,414	\$769,787	\$794,563	\$820,967	\$847,999	\$879,906	\$913,668	\$947,258	\$980,808	\$1,014,265
FINANCIAL MANAGEMENT	\$74,561	\$101,892	\$104,447	\$107,581	\$110,808	\$114,132	\$117,556	\$121,083	\$124,716	\$128,457
NETWORK MANAGEMENT	\$87,665	\$119,812	\$122,806	\$126,490	\$130,285	\$134,193	\$138,219	\$142,366	\$146,637	\$151,036
REVALUE NETWORK SUPPORT	\$72,534	\$102,143	\$104,704	\$107,850	\$111,082	\$114,413	\$117,847	\$121,385	\$125,020	\$128,776
<b>TOTAL SERVICES:</b>	\$1,051,324	\$1,552,697	\$1,598,489	\$1,650,370	\$1,704,174	\$1,762,690	\$1,724,701	\$1,777,011	\$1,829,937	\$1,883,895

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Services</b>	\$898,049	\$1,227,311	\$1,258,006	\$1,295,746	\$1,334,618	\$1,374,657	\$1,415,896	\$1,458,373	\$1,502,125	\$1,547,188
Fixed Costs	\$153,276	\$325,386	\$340,483	\$354,624	\$369,556	\$389,033	\$398,805	\$318,638	\$327,813	\$336,707
Variable Costs										

**King County Metro** Revised BAFO Costs

<b>VENDOR - ANNUAL OPERATING COSTS:</b>	\$1,324,422	\$1,918,796	\$1,967,378	\$2,022,133	\$2,078,897	\$2,050,461	\$2,105,613	\$2,161,158	\$2,217,415	\$2,274,805
(Maintenance & Services)										

**SERVICES PROVIDED BY KING COUNTY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>	\$67,342	\$10,972	\$10,750	\$10,926	\$32,394	\$33,736	\$37,058	\$37,376	\$38,230	\$39,554
Monthly Regional Cost:	\$48,277	\$7,866	\$7,707	\$7,833	\$23,223	\$24,185	\$26,567	\$26,795	\$27,407	\$28,356
Agency Share: 71.7%										
<b>KCM Annual Cost</b>	\$579,830	\$14,369	\$92,434	\$33,993	\$279,684	\$290,222	\$318,882	\$324,539	\$329,887	\$340,278

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>	\$2,708	\$1,232	\$1,289	\$1,307	\$1,346	\$1,387	\$1,428	\$1,471	\$1,515	\$1,561
Monthly Regional Cost:	\$32,493	\$17,783	\$15,227	\$15,694	\$16,154	\$16,639	\$17,138	\$17,652	\$18,181	\$18,727
Agency Share: 71.7%										
<b>KCM Annual Cost</b>	\$32,493	\$17,783	\$15,227	\$15,694	\$16,154	\$16,639	\$17,138	\$17,652	\$18,181	\$18,727

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Monthly Regional Cost:	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Agency Share: 71.7%										
<b>KCM Annual Cost</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

<b>KCM Services - ANNUAL OPERATING COSTS:</b>	\$611,823	\$109,172	\$107,711	\$109,677	\$294,835	\$306,861	\$335,940	\$339,192	\$347,068	\$358,005
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<b>TOTAL ANNUAL OPERATING COSTS:</b>	\$1,936,245	\$2,027,968	\$2,075,089	\$2,131,810	\$2,373,732	\$2,357,322	\$2,441,553	\$2,500,350	\$2,564,483	\$2,633,809
(Vendor and KCM services)										

**KCM Service Assumptions:**

1. Estimates for Year 1 (2005) are preliminary. Actual costs will depend greatly upon roll-out strategy, institutional account demographics, and other variables.
2. Estimates for Year 1 (2005) assume incentives are established to encourage unaffiliated customers to obtain their cards via telephone, mail or internet.
3. Estimates for Year 1 (2005) assume aggressive marketing campaign to smaller institutional programs.
4. Estimates for Year 1 (2005) assume that EDPasses are distributed to the institution rather than to the individual.
5. Estimates include costs for marketing materials (information packets, etc.) These costs are based on the preliminary concepts developed by KCM marketing staff, actual costs may differ when the regional plan is established.
6. King County's cost estimates are based upon ridership and cash conversion assumptions (including RRRFP) as identified in RFC Project Capital Cost Worksheets Assumption Worksheet No. 3. This data was used to insure that KCM estimates are consistent with other pricing estimates for the project. Actual costs will be used once they are known.
7. For the King County Card Procurement, Inventory, Warehousing and Distribution Option, there will be an increase in capital costs to include modifications required to CARM for inventory management (\$72,319).

## E-PURSE TRANSACTIONS

### King County Metro

#### ANNUAL QUANTITY CALCULATION

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>PASS TRIPS</b>										
Annual Trips by Pass Holders	59,490,158	60,276,440	60,515,442	60,773,461	61,268,668	61,709,637	62,138,300	62,559,828	62,984,215	63,425,105
Monthly Trips by Pass Holders	4,957,513	5,023,037	5,042,954	5,064,455	5,105,722	5,142,470	5,178,192	5,213,319	5,248,685	5,285,425
Assumption: 15% of Pass Trips require E-purse transaction:	7,43,627	753,455	756,443	759,668	765,858	771,370	776,729	781,998	787,303	792,814
<b>CASH TRIPS</b>										
Annual Trips by Cash Riders	36,461,710	36,943,624	37,090,110	37,248,251	37,551,764	37,822,035	38,084,764	38,343,120	38,603,229	38,873,451
Monthly Trips by Cash Riders	3,038,476	3,078,635	3,090,842	3,104,021	3,129,314	3,151,836	3,173,730	3,195,260	3,216,936	3,239,454
Monthly Cash trips previously converted to Smart Card:	0	759,619	991,521	1,201,453	1,391,710	1,565,470	1,724,107	1,869,069	2,001,688	2,123,213
Remaining Monthly Trips taken by Cash Riders:	2,319,016	2,099,322	1,902,588	1,737,604	1,566,366	1,449,624	1,326,191	1,215,248	1,116,241	1,116,241
Monthly Cash Trips converting to Smart Card (E-Purse): (Year 1 25% of Cash trips, Years 2-10 10% of Cash trips)	759,619	231,902	209,932	190,257	173,760	158,637	144,962	132,619	121,525	111,624
<b>TOTAL CASH TRIPS USING E-PURSE:</b> (f. + h.)	759,619	991,521	1,201,453	1,391,710	1,565,470	1,724,107	1,869,069	2,001,688	2,123,213	2,234,837
<b>TOTAL NUMBER OF E-PURSE TRANSACTIONS PER MONTH:</b> (Pass trips + Cash trips) (c. + i.)	1,503,246	1,744,976	1,957,896	2,151,373	2,331,328	2,495,477	2,645,798	2,783,686	2,910,516	3,027,651

#### ASSUMPTIONS

- o Any fare transaction that requires full or partial payment with the E-purse will be considered an E-purse transaction.
- o 15% of Pass trips require E-purse transaction
- o Year 1 - 25% of Cash trips convert to Smart Card - using E-purse  
Years 2-10 - 10% of remaining Cash trips convert to Smart Card - using E-purse (annually)
- o Based on individual agency ridership projections (2005-2014) for both Cash & Pass trips.

## PASS PAYMENT TRANSACTIONS

### King County Metro

#### ANNUAL QUANTITY CALCULATION

##### PASS TRIPS

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Annual Trip Transactions by Pass Holders:	59,490,158	60,276,440	60,515,442	60,773,461	61,268,668	61,709,637	62,138,300	62,559,828	62,984,215	63,425,105
Monthly Trip Transactions taken by Pass Holders:	4,957,513	5,023,037	5,042,954	5,064,455	5,105,722	5,142,470	5,178,192	5,213,319	5,248,685	5,285,425
Assumption: 85% of Pass Trips NOT requiring an E-purse transaction:	4,213,886	4,269,581	4,286,510	4,304,787	4,339,864	4,371,099	4,401,463	4,431,321	4,461,382	4,492,612

**TOTAL NUMBER OF PASS PAYMENT TRANSACTIONS PER MONTH:** 4,213,886 4,269,581 4,286,510 4,304,787 4,339,864 4,371,099 4,401,463 4,431,321 4,461,382 4,492,612

#### ASSUMPTIONS

- o 85% of Smart Card Pass trips do not require any E-purse transaction.
- o Pass Payment Transactions are only those transactions not requiring any E-purse activity. (85% of Pass Riders)
- o Based on individual agency ridership projections (2005-2014) for Pass trips.

## REVALUE TRANSACTIONS

### King County Metro QUANTITY CALCULATION

Annual Number of Pass Holders using Smart Card:  
 Assumption: Number of Pass Holders who revalue once a month:  
 Number of revalue transactions per month for pass holders:

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	377,617	385,406	389,399	393,207	405,625	417,810	429,244	435,593	439,890	444,588
	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	75,523	77,081	77,880	78,641	81,125	83,562	85,849	87,119	87,978	88,918

Number of Cash Riders using Smart Card (E-purse):  
 Assumption: Number of times/month card is revalued:  
 Number of revalue transactions per month for pass holders:

	29,826	39,016	47,422	55,119	62,413	69,340	75,917	82,039	87,697	92,949
	3	3	3	3	3	3	3	3	3	3
	89,479	117,048	142,266	165,356	187,240	208,021	227,750	246,116	263,090	278,346

**TOTAL NUMBER OF REVALUE TRANSACTIONS PER MONTH:**

	165,002	194,129	220,146	243,997	268,365	291,583	313,599	333,235	351,068	367,763
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Number of revalue transactions/month through 3rd party retailers:  
 (15% of total revalue transactions)  
 Number of revalue transactions/month NOT through 3rd party retailers:  
 (85% of total revalue transactions)

	24,750	29,119	33,022	36,600	40,255	43,737	47,040	49,985	52,660	55,165
	140,252	165,009	187,124	207,397	228,110	247,846	266,559	283,250	298,408	312,599

King County Metro (Agency % share)

	71.7%	71.7%	71.7%	71.7%	71.7%	71.7%	71.7%	71.7%	71.7%	71.7%
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Number of revalue transactions/month through 3rd party retailers:  
 Number of revalue transactions/month NOT through 3rd party retailers:

	17,744	20,876	23,674	26,238	28,859	31,356	33,723	35,835	37,752	39,548
	100,547	118,296	134,150	148,684	163,533	177,682	191,098	203,063	213,930	224,104

### ASSUMPTIONS

- o 20% of Pass Holders using Smart Card would revalue once a month. This includes:
  - Individual pass holders
  - Employees with subsidized passes using electronic coupons
  - Administrative changes to subsidized passes
- o Cash riders using Smart Card (E-purse) would revalue 3 times a month assuming:
  - Reload discount @ \$20
  - Primarily infrequent riders, some requiring E-purse upgrades
- o Annual number of customers holding smart cards based assumptions defined on "Number of Fare Cards" worksheet over the 10-year contract.
- o Only revalue transactions conducted through 3rd party retailers are charged against the Revalue Transaction Fees. All other revalue transactions are charged against the Pass Payment/ E-purse Transaction Fees.



**Community Transit**

6.0% Revised BAFO Costs

**OPERATIONAL COSTS**

	Price per Event	quantities	quantities	Failure Rate (5%)
<b>Depot Maintenance:</b>				
On-Board FTP	\$116	290	14	
Stand-Alone FTP - ST config.	\$460	0	0	
Stand-Alone FTP - WT config.	\$460	0	0	
Portable FTP - verifier only	\$354	0	0	
Portable FTP - full function	\$354	0	0	
DDU	\$138	290	14	
TVM Integration Kit	\$186	0	0.0	
Wireless Data Sys-Base	\$332	2	0.1	
Wireless Data Sys-On-Board	\$115	290	14	
<b>TOTAL:</b>				

**On-Site Maintenance:**

	Monthly Cost/unit	quantities	Monthly Cost
DAC	\$45.14	2	\$90
Back Office Computer	\$138.82	1	\$139
CST	\$52.27	1	\$52
Photo ID	\$110.89	1	\$111
<b>TOTAL:</b>			\$392

**Technical**

**Support Maintenance:**

	Monthly Cost/unit	quantities	Monthly Cost
On-Board FTP	\$0.58	290	\$168
Stand-Alone FTP	\$2.94	0	\$0
Portable FTP	\$1.87	0	\$0
DDU	\$1.09	290	\$316
Wireless Data Sys-Base	\$2.50	2	\$5
Wireless Data Sys-On-Board	\$0.65	290	\$188
DAC	\$5.39	2	\$11
Back Office Computer	\$16.57	1	\$17
TVM Integration Kit	\$1.17	0	\$0
CST	\$6.24	1	\$6
Photo ID	\$13.23	1	\$13
<b>TOTAL:</b>			\$724

**Software Maintenance:**

	Monthly Cost/unit	Agency Share	Monthly Cost
Software maintenance services	\$31,745	6.0%	\$1,891
<b>TOTAL:</b>			\$1,891

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$1,681	\$1,731	\$1,783	\$1,837	\$1,892	\$1,949	\$2,007	\$2,067	\$2,129	\$2,193
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$2,000	\$2,060	\$2,121	\$2,185	\$2,251	\$2,318	\$2,388	\$2,459	\$2,533	\$2,609
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$33	\$34	\$35	\$36	\$37	\$38	\$40	\$41	\$42	\$44
	\$1,666	\$1,716	\$1,768	\$1,821	\$1,875	\$1,932	\$1,990	\$2,049	\$2,111	\$2,175
<b>TOTAL:</b>	\$5,380	\$5,541	\$5,703	\$5,873	\$6,055	\$6,237	\$6,424	\$6,617	\$6,815	\$7,017

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$1,083	\$1,116	\$1,149	\$1,184	\$1,219	\$1,256	\$1,294	\$1,332	\$1,372	\$1,411
	\$1,666	\$1,716	\$1,767	\$1,820	\$1,875	\$1,931	\$1,989	\$2,049	\$2,110	\$2,172
	\$627	\$646	\$665	\$685	\$706	\$727	\$749	\$771	\$795	\$819
	\$1,331	\$1,371	\$1,412	\$1,454	\$1,498	\$1,543	\$1,589	\$1,637	\$1,686	\$1,735
	\$4,707	\$4,848	\$4,994	\$5,144	\$5,298	\$5,457	\$5,621	\$5,789	\$5,963	\$6,141
<b>TOTAL:</b>	\$9,413	\$9,557	\$9,706	\$9,859	\$10,017	\$10,179	\$10,345	\$10,515	\$10,689	\$10,867

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$2,017	\$2,078	\$2,140	\$2,204	\$2,270	\$2,338	\$2,408	\$2,481	\$2,555	\$2,631
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$3,791	\$3,904	\$4,021	\$4,142	\$4,266	\$4,394	\$4,526	\$4,662	\$4,802	\$4,945
	\$60	\$62	\$64	\$66	\$68	\$70	\$72	\$74	\$76	\$78
	\$2,260	\$2,328	\$2,398	\$2,470	\$2,544	\$2,620	\$2,699	\$2,780	\$2,863	\$2,949
	\$129	\$133	\$137	\$141	\$146	\$150	\$154	\$159	\$164	\$169
	\$199	\$205	\$211	\$217	\$224	\$231	\$237	\$245	\$252	\$260
	\$75	\$77	\$79	\$82	\$84	\$87	\$89	\$92	\$95	\$98
	\$159	\$164	\$168	\$173	\$179	\$184	\$190	\$195	\$201	\$207
<b>TOTAL:</b>	\$9,690	\$9,851	\$10,017	\$10,188	\$10,364	\$10,545	\$10,730	\$10,919	\$11,112	\$11,309

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697
	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697
<b>TOTAL:</b>	\$45,394	\$45,394	\$45,394	\$45,394	\$45,394	\$45,394	\$45,394	\$45,394	\$45,394	\$45,394

**Services**

**Customer Service**

**Fixed Fee**  
 Monthly Regional Cost: 6.0%  
 Agency Share: 6.0%  
**CT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$19,439	\$19,925	\$20,423	\$21,036	\$21,667	\$22,317	\$22,986	\$23,676	\$24,386	\$25,118
\$1,158	\$1,187	\$1,217	\$1,253	\$1,291	\$1,330	\$1,370	\$1,411	\$1,453	\$1,497
\$10,424	\$14,246	\$14,602	\$15,049	\$15,491	\$15,936	\$16,385	\$16,928	\$17,436	\$17,959

**Variable Costs**

Annual Regional Call Volumes:  
 Call Volumes paid by fixed fee  
 Call Volumes paid by variable fee  
 Agency Share: 6.0%  
 Cost per Call: (over 500/mo)  
**CT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
9,520	10,136	10,633	11,092	11,714	12,314	12,880	13,315	13,684	14,042
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
3,520	4,136	4,633	5,092	5,714	6,314	6,880	7,315	7,684	8,042
210	246	276	303	340	376	410	436	458	479
\$3.80	\$3.90	\$4.00	\$4.12	\$4.24	\$4.16	\$4.29	\$4.42	\$4.55	\$4.69
\$398	\$961	\$1,104	\$1,250	\$1,445	\$1,555	\$1,759	\$1,927	\$2,083	\$2,247

**Institutional Programs**

**Fixed Fee**  
 Monthly Regional Cost: 6.0%  
 Agency Share: 6.0%  
 Regional Annual Cost:  
**CT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$13,778	\$14,122	\$14,475	\$14,909	\$15,357	\$15,817	\$16,292	\$16,780	\$17,284	\$17,802
\$821	\$841	\$862	\$888	\$915	\$942	\$971	\$1,000	\$1,030	\$1,061
\$7,368	\$10,087	\$10,349	\$10,660	\$10,980	\$11,309	\$11,648	\$11,988	\$12,339	\$12,728

**Variable Costs**

# of Institutional Programs  
 Monthly Regional Programs:  
 Agency Share: 6.0%  
 Cost per Program:  
**CT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1,348	1,388	1,430	1,473	1,517	1,563	1,610	1,658	1,708	1,759
80	83	85	88	90	93	96	99	102	105
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

**Fare Card Management**

**Fixed Fee**  
 Monthly Regional Cost: 6.0%  
 Agency Share: 6.0%  
**CT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$6,325	\$6,483	\$6,645	\$6,844	\$7,050	\$7,261	\$7,479	\$7,703	\$7,934	\$8,173
\$377	\$386	\$396	\$408	\$420	\$433	\$446	\$459	\$473	\$487
\$3,292	\$4,635	\$4,751	\$4,894	\$5,046	\$5,192	\$5,347	\$5,508	\$5,673	\$5,843

**Card Procurement & Dist.**

**Fixed Fee**  
 Monthly Regional Cost: 6.0%  
 Agency Share: 6.0%  
**CT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$11,167	\$11,446	\$11,732	\$12,084	\$12,446	\$12,820	\$13,204	\$13,601	\$14,009	\$14,429
\$665	\$682	\$699	\$720	\$742	\$764	\$787	\$810	\$835	\$860
\$5,988	\$8,184	\$9,388	\$8,640	\$8,899	\$9,166	\$9,441	\$9,724	\$10,016	\$10,316

**Variable Costs**

Annual # of card batches  
 Annual # of Shipments:  
 Agency Share: 6.0%  
 Cost per Shipment:  
**CT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
12	12	12	12	12	12	12	12	12	12
1	1	1	1	1	1	1	1	1	1
\$40.33	\$41.34	\$42.38	\$43.65	\$44.96	\$46.31	\$47.70	\$49.13	\$50.60	\$52.12
\$14	\$30	\$30	\$31	\$32	\$33	\$34	\$35	\$36	\$37

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$52,778	\$54,097	\$55,450	\$57,114	\$58,827	\$60,592	\$62,409	\$64,282	\$66,210	\$68,197
Agency Share: 6.0%	\$3,145	\$3,223	\$3,304	\$3,403	\$3,505	\$3,610	\$3,718	\$3,830	\$3,945	\$4,063
<b>CT Annual Cost</b>	\$28,301	\$38,673	\$39,846	\$40,835	\$42,660	\$44,322	\$45,821	\$47,360	\$48,789	\$49,921

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Variable Costs</b>										
Monthly Qty.	483,504	508,291	531,298	552,741	572,910	591,857	609,703	626,499	642,376	657,457
Annual Qty.	5,802,046	6,099,493	6,375,575	6,632,897	6,874,921	7,102,281	7,316,430	7,517,989	7,708,512	7,889,487
Cost per Transaction:	\$0.004	\$0.004	\$0.004	\$0.004	\$0.004	\$0.003	\$0.003	\$0.003	\$0.003	\$0.003
<b>CT Annual Cost</b>	\$17,504	\$24,368	\$25,502	\$26,532	\$27,500	\$27,907	\$27,949	\$22,534	\$23,126	\$23,668

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Variable Costs</b>										
Monthly Qty.	1,475	1,735	1,967	2,181	2,398	2,606	2,803	2,978	3,138	3,287
Annual Qty.	17,696	20,820	23,610	26,168	28,781	31,271	33,632	35,738	37,651	39,441
Cost per Transaction:	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04
<b>CT Annual Cost</b>	\$364	\$693	\$844	\$1,047	\$1,151	\$1,261	\$1,345	\$1,430	\$1,506	\$1,579

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$11,556	\$11,844	\$12,141	\$12,505	\$12,880	\$13,267	\$13,665	\$14,075	\$14,497	\$14,932
Agency Share: 6.0%	\$689	\$706	\$723	\$745	\$767	\$790	\$814	\$839	\$864	\$890
<b>CT Annual Cost</b>	\$16,197	\$8,468	\$8,681	\$8,941	\$9,209	\$9,489	\$9,770	\$10,063	\$10,365	\$10,676

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$13,587	\$13,927	\$14,275	\$14,703	\$15,144	\$15,599	\$16,067	\$16,549	\$17,045	\$17,556
Agency Share: 6.0%	\$810	\$830	\$851	\$876	\$902	\$929	\$957	\$986	\$1,016	\$1,046
<b>CT Annual Cost</b>	\$7,286	\$9,858	\$10,206	\$10,513	\$10,828	\$11,153	\$11,487	\$11,832	\$12,187	\$12,552

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$10,556	\$10,819	\$11,090	\$11,423	\$11,765	\$12,118	\$12,482	\$12,856	\$13,242	\$13,639
Agency Share: 6.0%	\$629	\$645	\$661	\$681	\$701	\$722	\$744	\$766	\$789	\$813
<b>CT Annual Cost</b>	\$5,660	\$7,735	\$7,823	\$8,187	\$8,412	\$8,664	\$8,924	\$9,192	\$9,468	\$9,752

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Variable Costs</b>										
No. of Retail Sites/month:	127	127	127	127	127	127	127	127	127	127
Agency Share: 6.0%	\$8.10	\$8.30	\$8.51	\$8.77	\$9.03	\$9.30	\$9.58	\$9.87	\$10.16	\$10.47
Cost per Site/month:	\$363	\$764	\$773	\$796	\$824	\$844	\$870	\$896	\$923	\$951
<b>CT Annual Cost</b>	\$11,993	\$11,993	\$11,993	\$11,993	\$11,993	\$11,993	\$11,993	\$11,993	\$11,993	\$11,993

**Community Transit COST SUMMARY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>DEPOT MAINTENANCE</b>	\$0	\$5,380	\$5,541	\$5,708	\$5,879	\$6,055	\$6,237	\$6,424	\$6,617	\$6,815
ON-CALL MAINTENANCE	\$0	\$4,707	\$4,848	\$4,994	\$5,144	\$5,298	\$5,457	\$5,621	\$5,789	\$5,963
TECHNICAL SUPPORT MAINTENANCE	\$0	\$8,690	\$8,951	\$9,219	\$9,496	\$9,781	\$10,074	\$10,376	\$10,687	\$11,008
SOFTWARE MAINTENANCE	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697	\$22,697
<b>TOTAL MAINTENANCE:</b>	<b>\$22,697</b>	<b>\$41,474</b>	<b>\$42,037</b>	<b>\$42,618</b>	<b>\$43,215</b>	<b>\$43,831</b>	<b>\$44,465</b>	<b>\$45,118</b>	<b>\$45,790</b>	<b>\$46,483</b>
<b>CUSTOMER SERVICE</b>	\$10,822	\$15,207	\$15,706	\$16,290	\$16,936	\$17,521	\$18,193	\$18,864	\$19,519	\$20,206
INSTITUTIONAL PROGRAMS	\$7,388	\$10,097	\$10,349	\$10,660	\$10,980	\$11,309	\$11,648	\$11,998	\$12,358	\$12,728
CARD PROCUREMENT & DIST.	\$6,003	\$8,213	\$8,418	\$8,671	\$8,931	\$9,199	\$9,475	\$9,759	\$10,052	\$10,354
FARE CARD MANAGEMENT	\$3,392	\$4,635	\$4,751	\$4,894	\$5,040	\$5,192	\$5,347	\$5,508	\$5,673	\$5,843
CLEARINGHOUSE SERVICES	\$40,259	\$63,909	\$66,092	\$68,413	\$70,711	\$73,080	\$75,416	\$77,710	\$80,000	\$82,250
FINANCIAL MANAGEMENT	\$6,197	\$8,468	\$8,681	\$8,941	\$9,209	\$9,485	\$9,770	\$10,063	\$10,365	\$10,676
NETWORK MANAGEMENT	\$7,286	\$9,958	\$10,206	\$10,513	\$10,828	\$11,153	\$11,487	\$11,832	\$12,187	\$12,552
REVALUE NETWORK SUPPORT	\$6,028	\$8,489	\$8,702	\$8,963	\$9,232	\$9,509	\$9,794	\$10,088	\$10,390	\$10,703
<b>TOTAL SERVICES:</b>	<b>\$87,375</b>	<b>\$128,976</b>	<b>\$132,906</b>	<b>\$137,344</b>	<b>\$141,867</b>	<b>\$146,477</b>	<b>\$151,167</b>	<b>\$155,946</b>	<b>\$160,795</b>	<b>\$165,725</b>
<b>Services</b>										
Fixed Costs	\$74,636	\$102,001	\$104,552	\$107,689	\$110,919	\$114,247	\$117,674	\$121,205	\$124,841	\$128,586
Variable Costs	\$12,739	\$26,975	\$28,354	\$29,656	\$30,948	\$32,230	\$33,493	\$34,741	\$36,014	\$37,139

**Community Transit Revised BAFO Costs**

<b>VENDOR - ANNUAL OPERATING COSTS:</b>	\$110,072	\$170,450	\$174,943	\$179,962	\$185,082	\$190,378	\$195,836	\$201,354	\$206,932	\$212,570
(Maintenance & Services)										

**SERVICES PROVIDED BY KING COUNTY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>New Card Fulfillment</b>										
Fixed Fee										
Monthly Regional Cost:	\$67,342	\$10,972	\$10,750	\$10,926	\$32,394	\$33,736	\$37,058	\$37,376	\$38,230	\$39,554
Agency Share: 6.0%	\$4,012	\$654	\$641	\$651	\$1,930	\$2,010	\$2,208	\$2,227	\$2,278	\$2,357
CT	\$43,330	\$7,843	\$7,686	\$7,812	\$23,161	\$24,120	\$26,495	\$26,723	\$27,334	\$28,280
Annual Cost										
<b>Additional Card Procurement, Inventory, Warehousing &amp; Distribution Functions</b>										
Fixed Fee										
Monthly Regional Cost:	\$3,777	\$1,718	\$1,770	\$1,823	\$1,878	\$1,934	\$1,992	\$2,052	\$2,113	\$2,177
Agency Share: 6.0%	\$225	\$102	\$105	\$109	\$112	\$115	\$119	\$122	\$126	\$130
CT	\$2,700	\$1,229	\$1,266	\$1,303	\$1,343	\$1,383	\$1,424	\$1,467	\$1,511	\$1,556
Annual Cost										

**Invoicing & Funds Collection**

Fixed Fee										
Monthly Regional Cost:	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Agency Share: 6.0%										
CT	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Annual Cost										

**KCM Services - ANNUAL OPERATING COSTS:**

	\$50,848	\$9,073	\$8,952	\$9,115	\$24,504	\$25,503	\$27,920	\$28,190	\$28,845	\$29,837
<b>TOTAL ANNUAL OPERATING COSTS:</b>	<b>\$160,920</b>	<b>\$179,523</b>	<b>\$183,895</b>	<b>\$189,077</b>	<b>\$209,586</b>	<b>\$208,581</b>	<b>\$216,016</b>	<b>\$221,354</b>	<b>\$227,149</b>	<b>\$233,387</b>
(Vendor and KCM services)										

**KCM Service Assumptions:**

1. Estimates for Year 1 (2005) are preliminary. Actual costs will depend greatly upon roll-out strategy, institutional account demographics, and other variables.
2. Estimates for Year 1 (2005) assume incentives are established to encourage unaffiliated customers to obtain their cards via telephone, mail or internet.
3. Estimates for Year 1 (2005) assume aggressive marketing campaign to smaller institutional programs.
4. Estimates for Year 1 (2005) assume that EDPasses are distributed to the institution rather than to the individual.
5. Estimates include costs for marketing materials (information packets, etc.) These costs are based on the preliminary concepts developed by KCM marketing staff, actual costs may differ when the regional plan is established.
6. King County's cost estimates are based upon ridership and cash conversion assumptions (including RRFPP) as identified in RFC Project Capital Cost Worksheets Assumption Worksheet No. 3. This data was used to insure that KCM estimates are consistent with other pricing estimates for the project. Actual costs will be used once they are known.
7. For the King County Card Procurement, Inventory, Warehousing and Distribution Option, there will be an increase in capital costs to include modifications required to CARM for inventory management (\$72,319).

# E-PURSE TRANSACTIONS

## Community Transit

### ANNUAL QUANTITY CALCULATION

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>PASS TRIPS</b>										
Annual Trips by Pass Holders	4,944,191	4,993,633	5,043,570	5,094,006	5,144,945	5,196,395	5,248,359	5,300,843	5,353,851	5,407,390
Monthly Trips by Pass Holders	412,016	416,136	420,297	424,500	428,745	433,033	437,363	441,737	446,154	450,616
Assumption: 15% of Pass Trips require E-purse transaction:	61,802	62,420	63,045	63,675	64,312	64,955	65,604	66,261	66,923	67,592
<b>CASH TRIPS</b>										
Annual Trips by Cash Riders	3,030,311	3,060,614	3,091,220	3,122,132	3,153,354	3,184,887	3,216,736	3,248,903	3,281,392	3,314,206
Monthly Trips by Cash Riders	252,526	255,051	257,602	260,178	262,779	265,407	268,061	270,742	273,449	276,184
Monthly Cash trips previously converted to Smart Card:	0	63,131	82,323	99,851	115,884	130,573	144,057	156,457	167,886	178,442
Remaining Monthly Trips taken by Cash Riders:	191,920	191,920	175,278	160,326	146,896	134,834	124,004	114,285	105,564	97,742
Monthly Cash Trips converting to Smart Card (E-Purse): (Year 1 25% of Cash trips, Years 2-10 10% of Cash trips)	63,131	19,192	17,528	16,033	14,690	13,483	12,400	11,428	10,556	9,774
<b>TOTAL CASH TRIPS USING E-PURSE:</b> (f. + h.)	63,131	82,323	99,851	115,884	130,573	144,057	156,457	167,886	178,442	188,216

TOTAL NUMBER OF E-PURSE TRANSACTIONS PER MONTH: (Pass trips + Cash trips) (c. + i.)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	124,934	144,744	162,896	179,559	194,895	209,012	222,062	234,146	245,365	255,809

### ASSUMPTIONS

- o Any fare transaction that requires full or partial payment with the E-purse will be considered an E-purse transaction.
- o 15% of Pass trips require E-purse transaction
- o Year 1 - 25% of Cash trips convert to Smart Card - using E-purse  
Years 2-10 - 10% of remaining Cash trips convert to Smart Card - using E-purse (annually)
- o Based on individual agency ridership projections (2005-2014) for both Cash & Pass trips.

## PASS PAYMENT TRANSACTIONS

### Community Transit

#### ANNUAL QUANTITY CALCULATION

##### PASS TRIPS

Annual Trip Transactions by Pass Holders:

Monthly Trip Transactions taken by Pass Holders:

Assumption: 85% of Pass Trips NOT requiring an E-purse transaction:

	1	2	3	4	5	6	7	8	9	10
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Annual Trip Transactions by Pass Holders:	4,944,191	4,993,633	5,043,570	5,094,006	5,144,945	5,196,395	5,248,359	5,300,843	5,353,851	5,407,390
Monthly Trip Transactions taken by Pass Holders:	412,016	416,136	420,297	424,500	428,745	433,033	437,363	441,737	446,154	450,616
Assumption: 85% of Pass Trips NOT requiring an E-purse transaction:	350,214	353,716	357,253	360,825	364,434	368,078	371,759	375,476	379,231	383,023
<b>TOTAL NUMBER OF PASS PAYMENT TRANSACTIONS PER MONTH:</b>	<b>350,214</b>	<b>353,716</b>	<b>357,253</b>	<b>360,825</b>	<b>364,434</b>	<b>368,078</b>	<b>371,759</b>	<b>375,476</b>	<b>379,231</b>	<b>383,023</b>

#### ASSUMPTIONS

- o 85% of Smart Card Pass trips do not require any E-purse transaction.
- o Pass Payment Transactions are only those transactions not requiring any E-purse activity. (85% of Pass Riders)
- o Based on individual agency ridership projections (2005-2014) for Pass trips.

## REVALUE TRANSACTIONS

### Community Transit QUANTITY CALCULATION

Annual Number of Pass Holders using Smart Card:  
 Assumption: Number of Pass Holders who revalue once a month:  
 Number of revalue transactions per month for pass holders:

	1	2	3	4	5	6	7	8	9	10
2005										
2006		377,617	385,406	389,399	393,207	405,625	417,810	429,244	435,593	439,890
2007		20%	20%	20%	20%	20%	20%	20%	20%	20%
2008		75,523	77,081	77,880	78,641	81,125	83,562	85,849	87,119	87,978
2009										
2010										
2011										
2012										
2013										
2014										

Number of Cash Riders using Smart Card (E-purse):  
 Assumption: Number of times/month card is revalued:  
 Number of revalue transactions per month for pass holders:

2005										
2006		29,826	39,016	47,422	55,119	62,413	69,340	75,917	82,039	87,697
2007		3	3	3	3	3	3	3	3	3
2008		89,479	117,048	142,266	165,356	187,240	208,021	227,750	246,116	263,090
2009										
2010										
2011										
2012										
2013										
2014										

**TOTAL NUMBER OF REVALUE TRANSACTIONS PER MONTH:**

2005		165,002	194,129	220,146	243,997	268,365	291,583	313,599	333,235	351,068
2006										
2007										
2008										
2009										
2010										
2011										
2012										
2013										
2014										

Number of revalue transactions/month through 3rd party retailers:  
 (15% of total revalue transactions)  
 Number of revalue transactions/month NOT through 3rd party retailers:  
 (85% of total revalue transactions)

2005		24,750	29,119	33,022	36,600	40,255	43,737	47,040	49,985	52,660
2006										
2007										
2008										
2009										
2010										
2011										
2012										
2013										
2014										

Community Transit (Agency % share)  
 Number of revalue transactions/month through 3rd party retailers:  
 Number of revalue transactions/month NOT through 3rd party retailers:

2005		6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%
2006		1,475	1,735	1,967	2,181	2,398	2,606	2,803	2,978	3,138
2007		8,356	9,832	11,149	12,357	13,591	14,767	15,882	16,876	17,780
2008										
2009										
2010										
2011										
2012										
2013										
2014										

### ASSUMPTIONS

- o 20% of Pass Holders using Smart Card would revalue once a month. This includes:
  - Individual pass holders
  - Employees with subsidized passes using electronic coupons
  - Administrative changes to subsidized passes
- o Cash riders using Smart Card (E-purse) would revalue 3 times a month assuming:
  - Reload discount @ \$20
  - Primarily infrequent riders, some requiring E-purse upgrades
- o Annual number of customers holding smart cards based assumptions defined on "Number of Fare Cards" worksheet over the 10-year contract.
- o Only revalue transactions conducted through 3rd party retailers are charged against the Revalue Transaction Fees. All other revalue transactions are charged against the Pass Payment/E-purse Transaction Fees.



**SOUND TRANSIT**  
**OPERATIONAL COSTS**

7.7% Revised BAFO Costs

Price per Event	quantities	quantities	Failure Rate (5%)
\$116	198	10	
\$460	26	1	
\$460	0	0	
\$354	16	1	
\$354	0	0	
\$138	198	10	
\$186	34	1.7	
\$332	4	0.2	
\$115	198	10	

**Depot Maintenance:**

On-Board FTP	Stand-Alone FTP - ST config.	Stand-Alone FTP - WT config.	Portable FTP - verifier only	Portable FTP - full function	DDU	TVM Integration Kit	Wireless Data Sys-Base	Wireless Data Sys-On-Board

**On-Site Maintenance:**

Monthly Cost/unit	quantities	Monthly Cost
\$45.14	4	\$181
\$138.82	1	\$139
\$52.27	1	\$52
\$110.89	1	\$111
<b>TOTAL</b>		<b>\$483</b>

**Technical**

**Support Maintenance:**

Monthly Cost/unit	quantities	Monthly Cost
\$0.58	198	\$115
\$2.94	26	\$76
\$1.87	16	\$30
\$1.09	198	\$216
\$2.50	4	\$10
\$0.65	198	\$129
\$5.39	4	\$22
\$16.57	1	\$17
\$1.17	34	\$40
\$6.24	1	\$6
\$13.23	1	\$13
<b>TOTAL</b>		<b>\$674</b>

**Software Maintenance:**

Monthly Cost/unit	Agency Share	Monthly Cost
\$31,745	7.7%	\$2,438
<b>TOTAL</b>		<b>\$2,438</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$1,151	\$1,186	\$1,221	\$1,258	\$1,295	\$1,334	\$1,374	\$1,416	\$1,458
	\$598	\$616	\$634	\$653	\$673	\$693	\$714	\$735	\$758
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$283	\$292	\$300	\$309	\$319	\$328	\$338	\$348	\$359
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$1,369	\$1,410	\$1,453	\$1,496	\$1,541	\$1,587	\$1,635	\$1,684	\$1,735
	\$316	\$326	\$335	\$346	\$356	\$367	\$378	\$389	\$401
	\$66	\$68	\$70	\$73	\$75	\$77	\$79	\$82	\$84
	\$1,141	\$1,175	\$1,211	\$1,247	\$1,284	\$1,323	\$1,363	\$1,403	\$1,445
<b>TOTAL</b>	<b>\$4,925</b>	<b>\$5,073</b>	<b>\$5,225</b>	<b>\$5,382</b>	<b>\$5,543</b>	<b>\$5,710</b>	<b>\$5,881</b>	<b>\$6,057</b>	<b>\$6,239</b>
									<b>\$50,038</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$2,167	\$2,232	\$2,299	\$2,368	\$2,439	\$2,512	\$2,587	\$2,665	\$2,745
	\$1,666	\$1,716	\$1,767	\$1,820	\$1,875	\$1,931	\$1,989	\$2,049	\$2,110
	\$627	\$646	\$665	\$685	\$706	\$727	\$749	\$771	\$795
	\$1,331	\$1,371	\$1,412	\$1,454	\$1,498	\$1,543	\$1,589	\$1,637	\$1,686
<b>TOTAL</b>	<b>\$5,790</b>	<b>\$5,963</b>	<b>\$6,143</b>	<b>\$6,327</b>	<b>\$6,517</b>	<b>\$6,713</b>	<b>\$6,914</b>	<b>\$7,122</b>	<b>\$7,336</b>
									<b>\$58,825</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$1,381	\$1,423	\$1,465	\$1,509	\$1,555	\$1,601	\$1,649	\$1,699	\$1,750
	\$917	\$945	\$973	\$1,002	\$1,032	\$1,063	\$1,095	\$1,128	\$1,162
	\$359	\$370	\$381	\$392	\$404	\$416	\$429	\$442	\$455
	\$2,596	\$2,674	\$2,754	\$2,836	\$2,922	\$3,009	\$3,099	\$3,192	\$3,288
	\$120	\$124	\$127	\$131	\$135	\$139	\$143	\$148	\$152
	\$1,548	\$1,594	\$1,642	\$1,691	\$1,742	\$1,794	\$1,848	\$1,904	\$1,961
	\$259	\$266	\$274	\$283	\$291	\$300	\$309	\$318	\$328
	\$199	\$205	\$211	\$217	\$224	\$231	\$237	\$245	\$252
	\$477	\$492	\$506	\$522	\$537	\$553	\$570	\$587	\$605
	\$75	\$77	\$79	\$82	\$84	\$87	\$89	\$92	\$95
	\$159	\$164	\$168	\$173	\$179	\$184	\$190	\$195	\$201
<b>TOTAL</b>	<b>\$8,050</b>	<b>\$8,332</b>	<b>\$8,582</b>	<b>\$8,840</b>	<b>\$9,105</b>	<b>\$9,378</b>	<b>\$9,660</b>	<b>\$9,949</b>	<b>\$10,243</b>
									<b>\$22,125</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$29,252	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252
<b>TOTAL</b>	<b>\$29,252</b>	<b>\$29,252</b>	<b>\$29,252</b>	<b>\$29,252</b>	<b>\$29,252</b>	<b>\$29,252</b>	<b>\$29,252</b>	<b>\$29,252</b>	<b>\$29,252</b>
									<b>\$292,517</b>

**Services**

**Customer Service**

**Fixed Fee**  
 Monthly Regional Cost: 7.7%  
 Agency Share: 7.7%  
**ST Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$19,439	\$19,925	\$20,423	\$21,036	\$21,667	\$22,317	\$22,986	\$23,676	\$24,386	\$25,118
\$1,493	\$1,530	\$1,568	\$1,615	\$1,664	\$1,714	\$1,765	\$1,818	\$1,873	\$1,929
\$13,434	\$18,360	\$18,819	\$19,383	\$19,985	\$20,561	\$21,181	\$21,846	\$22,557	\$23,315

**Variable Costs**

Annual Regional Call Volumes:  
 Call Volumes paid by fixed fee  
 Call Volumes paid by variable fee  
 Agency Share: 7.7%  
 Cost per Call: (over 500/mo)  
**ST Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
9,520	10,136	10,633	11,092	11,714	12,314	12,880	13,315	13,684	14,042
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
3,520	4,136	4,633	5,092	5,714	6,314	6,880	7,315	7,684	8,042
270	318	356	391	439	485	528	562	590	618
\$3.80	\$3.90	\$4.00	\$4.12	\$4.24	\$4.16	\$4.29	\$4.42	\$4.55	\$4.69
\$314	\$1,239	\$1,423	\$1,611	\$1,862	\$2,017	\$2,286	\$2,483	\$2,685	\$2,896

**Institutional Programs**

**Fixed Fee**  
 Monthly Regional Cost: 7.7%  
 Agency Share: 7.7%  
 Regional Annual Cost:

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$13,778	\$14,122	\$14,475	\$14,909	\$15,357	\$15,817	\$16,292	\$16,780	\$17,284	\$17,802
\$1,058	\$1,084	\$1,112	\$1,145	\$1,179	\$1,215	\$1,251	\$1,289	\$1,327	\$1,367
\$9,922	\$13,043	\$13,338	\$13,736	\$14,150	\$14,575	\$15,012	\$15,463	\$15,926	\$16,402

**Variable Costs**

Monthly Regional Programs:  
 Agency Share: 7.7%  
 Cost per Program:  
**ST Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1,348	1,388	1,430	1,473	1,517	1,563	1,610	1,658	1,708	1,759
104	107	110	113	117	120	124	127	131	135
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

**Fare Card Management**

**Fixed Fee**  
 Monthly Regional Cost: 7.7%  
 Agency Share: 7.7%  
**ST Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$6,325	\$6,483	\$6,645	\$6,844	\$7,050	\$7,261	\$7,479	\$7,703	\$7,934	\$8,173
\$486	\$498	\$510	\$526	\$541	\$558	\$574	\$592	\$609	\$628
\$4,371	\$5,974	\$6,123	\$6,317	\$6,486	\$6,631	\$6,892	\$7,098	\$7,311	\$7,531

**Card Procurement & Dist.**

**Fixed Fee**  
 Monthly Regional Cost: 7.7%  
 Agency Share: 7.7%  
**ST Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$11,167	\$11,446	\$11,732	\$12,084	\$12,446	\$12,820	\$13,204	\$13,601	\$14,009	\$14,429
\$857	\$879	\$901	\$928	\$956	\$984	\$1,014	\$1,044	\$1,076	\$1,108
\$7,717	\$10,547	\$10,811	\$11,135	\$11,489	\$11,813	\$12,167	\$12,532	\$12,908	\$13,296

**Variable Costs**

Annual # of Shipments:  
 Agency Share: 7.7%  
 Cost per Shipment:  
**ST Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
12	12	12	12	12	12	12	12	12	12
1	1	1	1	1	1	1	1	1	1
\$40.33	\$41.34	\$42.38	\$43.65	\$44.96	\$46.31	\$47.70	\$49.13	\$50.60	\$52.12
\$19	\$38	\$39	\$40	\$41	\$43	\$44	\$45	\$47	\$48

<b>Clearinghouse Services</b>											
<b>Fixed Fee</b>											
Monthly Regional Cost:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Agency Share: 7.7%	\$52,778	\$54,097	\$55,450	\$57,114	\$58,827	\$60,592	\$62,409	\$64,282	\$66,210	\$68,197	
<b>ST Annual Cost</b>	\$4,053	\$4,154	\$4,258	\$4,366	\$4,477	\$4,592	\$4,712	\$4,836	\$4,964	\$5,094	
	\$35,474	\$39,948	\$41,895	\$44,028	\$46,346	\$48,853	\$51,548	\$54,434	\$57,510	\$60,877	\$540,675

<b>E-Purse, Pass Payment &amp; Revalue Transactions</b>											
<b>Variable Costs</b>											
Monthly Qty:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Annual Qty:	629,558	715,749	779,800	837,794	1,034,212	1,237,016	1,432,248	1,537,464	1,603,137	1,671,923	
Cost per Transaction:	\$0.004	\$0.004	\$0.004	\$0.004	\$0.004	\$0.003	\$0.003	\$0.003	\$0.003	\$0.003	\$0.003
<b>ST Annual Cost</b>	\$15,109	\$34,356	\$37,430	\$40,214	\$49,642	\$44,533	\$51,561	\$53,349	\$57,713	\$80,189	\$446,096

<b>Revalue Transactions (3rd party)</b>											
<b>Variable Costs</b>											
Monthly Qty:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Annual Qty:	1,901	2,236	2,536	2,810	3,091	3,359	3,612	3,838	4,044	4,236	
Cost per Transaction:	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04
<b>ST Annual Cost</b>	\$456	\$1,073	\$1,217	\$1,349	\$1,484	\$1,612	\$1,724	\$1,822	\$1,941	\$2,038	\$14,742

<b>Financial Management</b>											
<b>Fixed Fee</b>											
Monthly Regional Cost:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Agency Share: 7.7%	\$11,556	\$11,844	\$12,141	\$12,505	\$12,880	\$13,267	\$13,665	\$14,075	\$14,497	\$14,932	
<b>ST Annual Cost</b>	\$887	\$909	\$932	\$960	\$989	\$1,019	\$1,049	\$1,081	\$1,113	\$1,147	
	\$7,669	\$10,934	\$11,207	\$11,523	\$11,869	\$12,225	\$12,592	\$12,969	\$13,359	\$13,759	\$118,392

<b>Network Management</b>											
<b>Fixed Fee</b>											
Monthly Regional Cost:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Agency Share: 7.7%	\$13,587	\$13,927	\$14,275	\$14,703	\$15,144	\$15,599	\$16,067	\$16,549	\$17,045	\$17,556	
<b>ST Annual Cost</b>	\$1,043	\$1,069	\$1,096	\$1,129	\$1,163	\$1,198	\$1,234	\$1,271	\$1,309	\$1,348	
	\$9,544	\$12,858	\$13,179	\$13,548	\$13,955	\$14,372	\$14,806	\$15,249	\$15,706	\$16,173	\$139,191

<b>Revalue Network Support</b>											
<b>Fixed Fee</b>											
Monthly Regional Cost:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Agency Share: 7.7%	\$10,556	\$10,819	\$11,090	\$11,423	\$11,785	\$12,118	\$12,482	\$12,856	\$13,242	\$13,639	
<b>ST Annual Cost</b>	\$811	\$831	\$852	\$877	\$903	\$931	\$958	\$987	\$1,017	\$1,047	
	\$7,295	\$9,989	\$10,219	\$10,526	\$10,841	\$11,167	\$11,502	\$11,847	\$12,202	\$12,568	\$103,135

<b>Variable Costs</b>											
No. of retail Sites/month:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Agency Share: 7.7%	127	127	127	127	127	127	127	127	127	127	
Cost per Site/month:	\$8.10	\$8.30	\$8.51	\$8.77	\$9.03	\$9.30	\$9.58	\$9.87	\$10.16	\$10.47	
<b>ST Annual Cost</b>	\$474	\$971	\$996	\$1,026	\$1,057	\$1,088	\$1,121	\$1,156	\$1,189	\$1,225	\$10,303

**SOUND TRANSIT COST SUMMARY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>DEPOT MAINTENANCE</b>										
ON-CALL MAINTENANCE	\$0	\$4,925	\$5,073	\$5,225	\$5,382	\$5,543	\$5,710	\$5,881	\$6,057	\$6,239
TECHNICAL SUPPORT MAINTENANCE	\$0	\$5,790	\$5,964	\$6,143	\$6,327	\$6,517	\$6,713	\$6,914	\$7,122	\$7,335
SOFTWARE MAINTENANCE	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252	\$29,252
<b>TOTAL MAINTENANCE:</b>	<b>\$29,252</b>	<b>\$48,057</b>	<b>\$48,621</b>	<b>\$49,202</b>	<b>\$49,801</b>	<b>\$50,417</b>	<b>\$51,052</b>	<b>\$51,706</b>	<b>\$52,380</b>	<b>\$53,074</b>
<b>CUSTOMER SERVICE</b>										
INSTITUTIONAL PROGRAMS	\$13,948	\$19,599	\$20,242	\$20,994	\$21,827	\$22,581	\$23,447	\$24,299	\$25,156	\$26,041
CARD PROCUREMENT & DIST.	\$9,522	\$13,013	\$13,338	\$13,738	\$14,150	\$14,575	\$15,012	\$15,463	\$15,926	\$16,404
FARE CARD MANAGEMENT	\$7,736	\$10,585	\$10,850	\$11,175	\$11,510	\$11,856	\$12,211	\$12,578	\$12,955	\$13,344
CLEARINGHOUSE SERVICES	\$4,371	\$5,974	\$6,123	\$6,307	\$6,496	\$6,691	\$6,892	\$7,098	\$7,311	\$7,531
FINANCIAL MANAGEMENT	\$52,040	\$85,277	\$89,742	\$94,191	\$105,332	\$101,977	\$110,802	\$116,424	\$120,664	\$125,063
NETWORK MANAGEMENT	\$7,986	\$10,914	\$11,187	\$11,523	\$11,869	\$12,225	\$12,592	\$12,969	\$13,358	\$13,759
REVALUE NETWORK SUPPORT	\$9,390	\$12,833	\$13,154	\$13,548	\$13,955	\$14,374	\$14,805	\$15,249	\$15,706	\$16,178
<b>TOTAL SERVICES:</b>	<b>\$112,762</b>	<b>\$169,135</b>	<b>\$175,851</b>	<b>\$183,028</b>	<b>\$197,038</b>	<b>\$196,533</b>	<b>\$208,384</b>	<b>\$217,081</b>	<b>\$224,468</b>	<b>\$232,112</b>
<b>Services</b>										
Fixed Costs	\$96,190	\$131,458	\$134,746	\$138,788	\$142,952	\$147,240	\$151,657	\$156,207	\$160,893	\$165,720
Variable Costs	\$16,572	\$37,677	\$41,106	\$44,241	\$54,086	\$49,293	\$56,726	\$60,874	\$63,574	\$66,392

**SOUND TRANSIT Revised BAFO Costs**

<b>VENDOR - ANNUAL OPERATING COSTS:</b>	<b>\$142,014</b>	<b>\$217,192</b>	<b>\$224,472</b>	<b>\$232,231</b>	<b>\$246,839</b>	<b>\$246,950</b>	<b>\$259,436</b>	<b>\$268,788</b>	<b>\$276,848</b>	<b>\$285,186</b>
(Maintenance & Services)										

**SERVICES PROVIDED BY KING COUNTY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>New Card Fulfillment</b>										
Fixed Fee	\$67,342	\$10,972	\$10,750	\$10,926	\$32,394	\$33,736	\$37,058	\$37,376	\$38,230	\$39,554
Monthly Regional Cost: 7.7%	\$5,171	\$842	\$825	\$839	\$2,487	\$2,590	\$2,846	\$2,870	\$2,936	\$3,037
Agency Share: 7.7%	\$62,052	\$10,110	\$9,906	\$10,088	\$29,850	\$31,086	\$34,147	\$34,440	\$35,227	\$36,444
ST										
Annual Cost										
<b>Additional Card Procurement, Inventory, Warehousing &amp; Distribution Functions</b>										
Fixed Fee	\$290	\$132	\$136	\$140	\$144	\$149	\$153	\$158	\$162	\$167
Monthly Regional Cost: 7.7%	\$3,480	\$1,583	\$1,637	\$1,680	\$1,730	\$1,782	\$1,831	\$1,881	\$1,937	\$2,008
Agency Share: 7.7%	\$290	\$132	\$136	\$140	\$144	\$149	\$153	\$158	\$162	\$167
ST										
Annual Cost										
<b>Invoicing &amp; Funds Collection</b>										
Fixed Fee	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Monthly Regional Cost: 7.7%	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Agency Share: 7.7%	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
ST										
Annual Cost										

**KCM Services - ANNUAL OPERATING COSTS:**

	\$65,533	\$11,693	\$11,537	\$11,748	\$31,580	\$32,866	\$35,983	\$36,331	\$37,175	\$38,453
<b>TOTAL ANNUAL OPERATING COSTS:</b>	<b>\$207,546</b>	<b>\$228,886</b>	<b>\$236,009</b>	<b>\$243,978</b>	<b>\$278,418</b>	<b>\$279,818</b>	<b>\$295,419</b>	<b>\$305,119</b>	<b>\$314,022</b>	<b>\$323,639</b>
(Vendor and KCM services)										

**KCM Service Assumptions:**

1. Estimates for Year 1 (2005) are preliminary. Actual costs will depend greatly upon roll-out strategy, institutional account demographics, and other variables.
2. Estimates for Year 1 (2005) assume incentives are established to encourage unaffiliated customers to obtain their cards via telephone, mail or internet.
3. Estimates for Year 1 (2005) assume aggressive marketing campaign to smaller institutional programs.
4. Estimates for Year 1 (2005) assume that EDPasses are distributed to the institution rather than to the individual.
5. Estimates include costs for marketing materials (information packets, etc.) These costs are based on the preliminary concepts developed by KCM marketing staff, actual costs may differ when the regional plan is established.
6. King County's cost estimates are based upon ridership and cash conversion assumptions (including RRFPP) as identified in RFC Project Capital Cost Worksheets Assumption Worksheet No. 3. This data was used to insure that KCM estimates are consistent with other pricing estimates for the project. Actual costs will be used once they are known.
7. For the King County Card Procurement, Inventory, Warehousing and Distribution Option, there will be an increase in capital costs to include modifications required to CARM for inventory management (\$72,319).

## E-PURSE TRANSACTIONS

### SOUND TRANSIT

#### ANNUAL QUANTITY CALCULATION

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>PASS TRIPS</b>										
Annual Trips by Pass Holders	6,474,794	7,160,788	7,590,823	7,960,010	9,906,387	11,854,996	13,654,679	14,385,678	14,678,036	15,035,799
Monthly Trips by Pass Holders	539,566	596,732	632,569	663,334	825,532	987,916	1,137,890	1,198,806	1,223,170	1,252,983
Assumption: 15% of Pass Trips require E-purse transaction:	80,935	89,510	94,885	99,500	123,830	148,187	170,683	179,821	183,475	187,947
<b>CASH TRIPS</b>										
Annual Trips by Cash Riders	3,802,657	4,205,542	4,458,103	4,674,926	5,818,037	6,962,458	8,019,414	8,448,731	8,620,434	8,830,548
Monthly Trips by Cash Riders	316,888	350,462	371,509	389,577	484,836	580,205	668,285	704,061	718,369	735,879
Monthly Cash trips previously converted to Smart Card:	0	79,222	106,346	132,862	158,534	191,164	230,068	273,890	316,907	357,053
Remaining Monthly Trips taken by Cash Riders:	79,222	271,240	265,163	256,715	326,303	389,041	438,216	430,171	401,463	378,826
Monthly Cash Trips converting to Smart Card (E-Purse): (Year 1 - 25% of Cash trips, Years 2-10 - 10% of Cash trips)		27,124	26,516	25,671	32,630	38,904	43,822	43,017	40,146	37,883
<b>TOTAL CASH TRIPS USING E-PURSE:</b> (f + h.)	79,222	106,346	132,862	158,534	191,164	230,068	273,890	316,907	357,053	394,936

TOTAL NUMBER OF E-PURSE TRANSACTIONS PER MONTH:	160,157	195,856	227,748	258,034	314,994	378,256	444,573	496,728	540,529	582,883
(Pass trips + Cash trips) (c + i)										

### ASSUMPTIONS

- o Any fare transaction that requires full or partial payment with the E-purse will be considered an E-purse transaction.
- o 15% of Pass trips require E-purse transaction
- o Year 1 - 25% of Cash trips convert to Smart Card - using E-purse  
Years 2-10 - 10% of remaining Cash trips convert to Smart Card - using E-purse (annually)
- o Based on individual agency ridership projections (2005-2014) for both Cash & Pass trips.

## PASS PAYMENT TRANSACTIONS

### SOUND TRANSIT

#### ANNUAL QUANTITY CALCULATION

PASS TRIPS	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Annual Trip Transactions by Pass Holders:	6,474,794	7,160,788	7,500,823	7,960,010	9,906,387	11,854,996	13,654,679	14,385,678	14,678,036	15,035,799
Monthly Trip Transactions taken by Pass Holders:	539,566	596,732	632,569	663,334	825,532	987,916	1,137,890	1,198,806	1,223,170	1,252,983
Assumption: 85% of Pass Trips NOT requiring an E-purse transaction:	458,631	507,222	537,683	563,834	701,702	839,729	967,206	1,018,986	1,039,694	1,065,036

**TOTAL NUMBER OF PASS PAYMENT TRANSACTIONS PER MONTH:** 458,631 507,222 537,683 563,834 701,702 839,729 967,206 1,018,986 1,039,694 1,065,036

### ASSUMPTIONS

- o 85% of Smart Card Pass trips do not require any E-purse transaction.
- o Pass Payment Transactions are only those transactions not requiring any E-purse activity. (85% of Pass Riders)
- o Based on individual agency ridership projections (2005-2014) for Pass trips.

## REVALUE TRANSACTIONS

### SOUND TRANSIT QUANTITY CALCULATION

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Annual Number of Pass Holders using Smart Card:	377,617	385,406	369,399	393,207	405,625	417,810	429,244	435,593	439,890	444,588
Assumption: Number of Pass Holders who revalue once a month:	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Number of revalue transactions per month for pass holders:	75,523	77,081	77,880	78,641	81,125	83,562	85,849	87,119	87,978	88,918

Number of Cash Riders using Smart Card (E-purse):	29,826	39,016	47,422	55,119	62,413	69,340	75,917	82,039	87,697	92,949
Assumption: Number of times/month card is revalued:	3	3	3	3	3	3	3	3	3	3
Number of revalue transactions per month for pass holders:	89,479	117,048	142,266	165,356	187,240	208,021	227,750	246,116	263,090	278,846

TOTAL NUMBER OF REVALUE TRANSACTIONS PER MONTH:	165,002	194,129	220,146	243,997	268,365	291,583	313,599	333,235	351,068	367,763
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Number of revalue transactions/month through 3rd party retailers:  
 (15% of total revalue transactions) 24,750 29,119 33,022 36,600 40,255 43,737 47,040 49,985 52,660 55,165

Number of revalue transactions/month NOT through 3rd party retailers:  
 (85% of total revalue transactions) 140,252 165,009 187,124 207,397 228,110 247,846 266,559 283,250 298,408 312,599

SOUND TRANSIT	(Agency % share)	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%
Number of revalue transactions/month through 3rd party retailers:	1,901	2,236	2,536	2,810	3,091	3,359	3,612	3,838	4,044	4,236
Number of revalue transactions/month NOT through 3rd party retailers:	10,770	12,671	14,369	15,926	17,516	19,032	20,469	21,750	22,914	24,004

### ASSUMPTIONS

- o 20% of Pass Holders using Smart Card would revalue once a month. This includes:
  - Individual pass holders
  - Employees with subsidized passes using electronic coupons
  - Administrative changes to subsidized passes
- o Cash riders using Smart Card (E-purse) would revalue 3 times a month assuming:
  - Reload discount @ \$20
  - Primarily infrequent riders, some requiring E-purse upgrades
- o Annual number of customers holding smart cards based assumptions defined on "Number of Fare Cards" worksheet over the 10-year contract.
- o Only revalue transactions conducted through 3rd party retailers are charged against the Revalue Transaction Fees. All other revalue transactions are charged against the Pass Payment/E-purse Transaction Fees.



**Kitsap Transit**

2.7% Revised BAFO Costs

**OPERATIONAL COSTS**

Failure Rate (5%)

Price per Event	quantities	quantities	quantities
\$116	106	106	5
\$460	0	0	0
\$460	3	0	0
\$354	0	0	0
\$354	0	0	0
\$138	106	5	5
\$186	0	0.0	0.0
\$332	4	0.2	0.2
\$115	106	5	5

**Depot Maintenance:**

On-Board FTP	\$116	106	5
Stand-Alone FTP - ST config.	\$460	0	0
Stand-Alone FTP - WT config.	\$460	3	0
Portable FTP - verifier only	\$354	0	0
Portable FTP - full function	\$354	0	0
DDU	\$138	106	5
TVM Integration Kit	\$186	0	0.0
Wireless Data Sys-Base	\$332	4	0.2
Wireless Data Sys-On-Board	\$115	106	5

**On-Site Maintenance:**

Monthly Cost/unit	quantities	Monthly Cost
\$45.14	4	\$181
\$138.82	1	\$139
\$52.27	1	\$52
\$110.89	1	\$111

**TOTAL** \$403

**Technical**

**Support Maintenance:**

Monthly Cost/unit	quantities	Monthly Cost
\$0.58	106	\$62
\$2.94	3	\$9
\$1.87	0	\$0
\$1.09	106	\$116
\$2.50	4	\$10
\$0.85	106	\$92
\$5.39	4	\$22
\$16.57	1	\$17
\$1.17	0	\$0
\$6.24	1	\$6
\$13.23	1	\$13

**TOTAL** \$322

**Software Maintenance:**

Monthly Cost/unit	Agency Share	Monthly Cost
\$31,745	2.7%	\$844

**TOTAL** \$844

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$615	\$634	\$653	\$672	\$692	\$713	\$734	\$756	\$779
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$69	\$71	\$73	\$75	\$78	\$80	\$82	\$85	\$87
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$732	\$754	\$776	\$800	\$824	\$848	\$874	\$900	\$927
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$66	\$68	\$70	\$73	\$75	\$77	\$79	\$82	\$84
	\$610	\$628	\$647	\$666	\$686	\$707	\$728	\$750	\$772
<b>TOTAL</b>	<b>\$2,092</b>	<b>\$2,155</b>	<b>\$2,219</b>	<b>\$2,286</b>	<b>\$2,355</b>	<b>\$2,425</b>	<b>\$2,495</b>	<b>\$2,570</b>	<b>\$2,650</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$2,167	\$2,232	\$2,299	\$2,368	\$2,439	\$2,512	\$2,587	\$2,665	\$2,745
	\$1,666	\$1,716	\$1,767	\$1,820	\$1,875	\$1,931	\$1,989	\$2,049	\$2,110
	\$627	\$646	\$665	\$685	\$706	\$727	\$749	\$771	\$795
	\$1,331	\$1,371	\$1,412	\$1,454	\$1,498	\$1,543	\$1,589	\$1,637	\$1,686
<b>TOTAL</b>	<b>\$5,790</b>	<b>\$5,964</b>	<b>\$6,143</b>	<b>\$6,327</b>	<b>\$6,517</b>	<b>\$6,713</b>	<b>\$6,914</b>	<b>\$7,122</b>	<b>\$7,336</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$738	\$760	\$783	\$807	\$831	\$856	\$881	\$908	\$935
	\$106	\$109	\$112	\$116	\$119	\$123	\$126	\$130	\$134
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$1,387	\$1,429	\$1,472	\$1,516	\$1,561	\$1,608	\$1,656	\$1,706	\$1,757
	\$120	\$124	\$127	\$131	\$135	\$139	\$143	\$148	\$152
	\$827	\$878	\$931	\$984	\$931	\$959	\$988	\$1,017	\$1,048
	\$259	\$266	\$274	\$283	\$291	\$300	\$309	\$318	\$328
	\$199	\$205	\$211	\$217	\$224	\$231	\$237	\$245	\$252
	\$75	\$77	\$79	\$82	\$84	\$87	\$89	\$92	\$95
	\$159	\$164	\$168	\$173	\$179	\$184	\$190	\$195	\$201
<b>TOTAL</b>	<b>\$3,869</b>	<b>\$3,966</b>	<b>\$4,065</b>	<b>\$4,228</b>	<b>\$4,355</b>	<b>\$4,486</b>	<b>\$4,620</b>	<b>\$4,759</b>	<b>\$4,902</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122
\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122
<b>TOTAL</b>	<b>\$10,122</b>	<b>\$10,122</b>	<b>\$10,122</b>	<b>\$10,122</b>	<b>\$10,122</b>	<b>\$10,122</b>	<b>\$10,122</b>	<b>\$10,122</b>	<b>\$10,122</b>

**Services**

**Customer Service**

**Fixed Fee**  
 Monthly Regional Cost: 2.7%  
 Agency Share: 2.7%  
**KT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$19,439	\$19,925	\$20,423	\$21,036	\$21,667	\$22,317	\$22,986	\$23,676	\$24,386	\$25,118
\$517	\$529	\$543	\$559	\$576	\$593	\$611	\$629	\$648	\$667
\$1,649	\$6,363	\$6,512	\$6,707	\$6,909	\$7,115	\$7,323	\$7,549	\$7,776	\$8,009

**Variable Costs**

Annual Regional Call Volumes:  
 Call Volumes paid by fixed fee  
 Call Volumes paid by variable fee  
 Agency Share: 2.7%  
 Cost per Call: (over 500/mo)  
**KT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
9,520	10,136	10,633	11,092	11,714	12,314	12,880	13,315	13,684	14,042
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
3,520	4,136	4,633	5,092	5,714	6,314	6,880	7,315	7,684	8,042
94	110	123	135	152	168	183	194	204	214
\$3.80	\$3.90	\$4.00	\$4.12	\$4.24	\$4.16	\$4.29	\$4.42	\$4.55	\$4.69
\$173	\$429	\$492	\$557	\$644	\$639	\$734	\$639	\$929	\$1,002

**Institutional Programs**

**Fixed Fee**  
 Monthly Regional Cost: 2.7%  
 Agency Share: 2.7%  
 Regional Annual Cost:  
**KT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$13,778	\$14,122	\$14,475	\$14,909	\$15,357	\$15,817	\$16,292	\$16,780	\$17,284	\$17,802
\$366	\$375	\$385	\$396	\$408	\$420	\$433	\$446	\$459	\$473
\$3,295	\$4,503	\$4,816	\$4,754	\$4,897	\$5,143	\$5,195	\$5,351	\$5,511	\$5,676

**Variable Costs**

Monthly Regional Programs:  
 Agency Share: 2.7%  
 Cost per Program:  
**KT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1,348	1,388	1,430	1,473	1,517	1,563	1,610	1,658	1,708	1,759
36	37	38	39	40	42	43	44	45	47
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**Fare Card Management**

**Fixed Fee**  
 Monthly Regional Cost: 2.7%  
 Agency Share: 2.7%  
**KT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$6,325	\$6,483	\$6,645	\$6,844	\$7,050	\$7,261	\$7,479	\$7,703	\$7,934	\$8,173
\$168	\$172	\$177	\$182	\$187	\$193	\$199	\$205	\$211	\$217
\$1,513	\$2,067	\$2,119	\$2,182	\$2,243	\$2,313	\$2,385	\$2,456	\$2,530	\$2,606

**Card Procurement & Dist.**

**Fixed Fee**  
 Monthly Regional Cost: 2.7%  
 Agency Share: 2.7%  
**KT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$11,167	\$11,446	\$11,732	\$12,084	\$12,446	\$12,820	\$13,204	\$13,601	\$14,009	\$14,429
\$297	\$304	\$312	\$321	\$331	\$341	\$351	\$361	\$372	\$383
\$2,871	\$3,650	\$3,744	\$3,853	\$3,969	\$4,088	\$4,210	\$4,337	\$4,467	\$4,601

**Variable Costs**

Annual # of Shipments:  
 Agency Share: 2.7%  
 Cost per Shipment:  
**KT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
12	12	12	12	12	12	12	12	12	12
0	0	0	0	0	0	0	0	0	0
\$40.33	\$41.34	\$42.38	\$43.65	\$44.96	\$46.31	\$47.70	\$49.13	\$50.60	\$52.12
\$6	\$13	\$14	\$14	\$14	\$15	\$15	\$16	\$16	\$17
\$6	\$13	\$14	\$14	\$14	\$15	\$15	\$16	\$16	\$17

<b>Clearinghouse Services</b>											
<b>Fixed Fee</b>											
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
\$52,778	\$54,097	\$55,450	\$57,114	\$58,827	\$60,592	\$62,409	\$64,282	\$66,210	\$68,197		
\$1,402	\$1,437	\$1,473	\$1,518	\$1,563	\$1,610	\$1,658	\$1,708	\$1,759	\$1,812		
\$12,622	\$17,246	\$17,681	\$18,211	\$18,758	\$19,320	\$19,900	\$20,497	\$21,112	\$21,745		
<b>Annual Cost</b>											
<b>KT</b>											

<b>E-Purse, Pass Payment &amp; Revalue Transactions</b>											
<b>Variable Costs</b>											
KT	Monthly Qty.	Annual Qty.									
231,188	240,022	248,147	255,847	262,642	269,144	275,199	280,824	286,068	290,960		
2,774,259	2,880,269	2,977,765	3,067,769	3,151,699	3,229,725	3,302,392	3,369,884	3,432,810	3,491,759		
\$0.004	\$0.004	\$0.004	\$0.004	\$0.004	\$0.003	\$0.003	\$0.003	\$0.003	\$0.003		
\$5,349	\$11,521	\$11,931	\$12,271	\$12,607	\$12,939	\$13,267	\$13,593	\$13,910	\$14,228		
<b>Annual Cost</b>											
<b>KT</b>											

<b>Revalue Transactions (3rd party)</b>											
<b>Variable Costs</b>											
KT	Monthly Qty.	Annual Qty.									
658	774	877	973	1,070	1,162	1,250	1,328	1,399	1,466		
7,892	9,285	10,529	11,670	12,836	13,946	14,999	15,938	16,791	17,590		
\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04		
\$168	\$371	\$421	\$467	\$513	\$558	\$600	\$638	\$672	\$704		
<b>Annual Cost</b>											
<b>KT</b>											

<b>Financial Management</b>											
<b>Fixed Fee</b>											
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
\$11,556	\$11,844	\$12,141	\$12,505	\$12,860	\$13,267	\$13,665	\$14,075	\$14,497	\$14,932		
\$307	\$315	\$323	\$332	\$342	\$353	\$363	\$374	\$385	\$397		
\$2,764	\$3,777	\$3,871	\$3,987	\$4,107	\$4,230	\$4,357	\$4,483	\$4,623	\$4,761		
<b>Annual Cost</b>											
<b>KT</b>											

<b>Network Management</b>											
<b>Fixed Fee</b>											
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
\$13,587	\$13,927	\$14,275	\$14,703	\$15,144	\$15,599	\$16,067	\$16,549	\$17,045	\$17,556		
\$361	\$370	\$379	\$391	\$402	\$414	\$427	\$440	\$453	\$467		
\$3,249	\$4,441	\$4,652	\$4,888	\$5,129	\$5,374	\$5,623	\$5,877	\$6,135	\$6,398		
<b>Annual Cost</b>											
<b>KT</b>											

<b>Revalue Network Support</b>											
<b>Fixed Fee</b>											
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
\$10,556	\$10,819	\$11,090	\$11,423	\$11,765	\$12,118	\$12,482	\$12,856	\$13,242	\$13,639		
\$280	\$287	\$295	\$304	\$313	\$322	\$332	\$342	\$352	\$362		
\$2,524	\$3,450	\$3,556	\$3,642	\$3,732	\$3,824	\$3,920	\$4,023	\$4,122	\$4,224		
<b>Annual Cost</b>											
<b>KT</b>											

<b>Variable Costs</b>											
No. of retail Sites/month:	2.7%										
127	127	127	127	127	127	127	127	127	127	127	127
3	3	3	3	3	3	3	3	3	3	3	3
\$8.10	\$8.30	\$8.51	\$8.77	\$9.03	\$9.30	\$9.58	\$9.87	\$10.16	\$10.47		
\$164	\$336	\$345	\$355	\$366	\$377	\$388	\$400	\$411	\$423		
<b>Annual Cost</b>											
<b>KT</b>											

**Kitsap Transit COST SUMMARY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
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DEPOT MAINTENANCE	\$0	\$2,092	\$2,155	\$2,219	\$2,286	\$2,355	\$2,425	\$2,498	\$2,573	\$2,650
ON-CALL MAINTENANCE	\$0	\$5,790	\$5,964	\$6,143	\$6,327	\$6,517	\$6,713	\$6,914	\$7,122	\$7,335
TECHNICAL SUPPORT MAINTENANCE	\$0	\$3,869	\$3,986	\$4,105	\$4,228	\$4,355	\$4,486	\$4,620	\$4,759	\$4,902
SOFTWARE MAINTENANCE	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122	\$10,122
<b>TOTAL MAINTENANCE:</b>	<b>\$10,122</b>	<b>\$21,874</b>	<b>\$22,227</b>	<b>\$22,590</b>	<b>\$22,964</b>	<b>\$23,349</b>	<b>\$23,746</b>	<b>\$24,155</b>	<b>\$24,576</b>	<b>\$25,009</b>

CUSTOMER SERVICE	\$4,826	\$6,782	\$7,005	\$7,265	\$7,553	\$7,814	\$8,114	\$8,408	\$8,705	\$9,011
INSTITUTIONAL PROGRAMS	\$3,295	\$4,503	\$4,616	\$4,754	\$4,897	\$5,043	\$5,195	\$5,351	\$5,511	\$5,676
CARD PROCUREMENT & DIST.	\$2,677	\$3,663	\$3,754	\$3,867	\$3,983	\$4,103	\$4,226	\$4,352	\$4,483	\$4,617
FARE CARD MANAGEMENT	\$1,513	\$2,067	\$2,119	\$2,182	\$2,248	\$2,315	\$2,385	\$2,456	\$2,530	\$2,606
CLEARINGHOUSE SERVICES	\$18,328	\$29,142	\$30,013	\$30,949	\$31,878	\$32,807	\$33,744	\$34,688	\$35,635	\$36,584
FINANCIAL MANAGEMENT	\$2,764	\$3,777	\$3,871	\$3,987	\$4,107	\$4,230	\$4,357	\$4,488	\$4,623	\$4,761
NETWORK MANAGEMENT	\$3,249	\$4,441	\$4,552	\$4,688	\$4,829	\$4,974	\$5,123	\$5,277	\$5,435	\$5,598
REVALUE NETWORK SUPPORT	\$2,688	\$3,786	\$3,881	\$3,997	\$4,117	\$4,241	\$4,368	\$4,499	\$4,634	\$4,773
<b>TOTAL SERVICES:</b>	<b>\$39,340</b>	<b>\$58,160</b>	<b>\$59,810</b>	<b>\$61,690</b>	<b>\$63,611</b>	<b>\$65,578</b>	<b>\$67,594</b>	<b>\$69,661</b>	<b>\$71,778</b>	<b>\$73,947</b>

Services  
Fixed Costs  
Variable Costs

**Kitsap Transit Revised BAFO Costs**

Services	\$33,286	\$45,490	\$46,627	\$48,026	\$49,467	\$50,951	\$52,479	\$54,054	\$55,675	\$57,346
Fixed Costs	\$6,054	\$12,670	\$13,183	\$13,664	\$14,145	\$14,626	\$15,107	\$15,588	\$16,069	\$16,550
Variable Costs	\$49,462	\$80,034	\$89,037	\$94,280	\$86,575	\$85,636	\$87,920	\$90,230	\$92,578	\$94,977
<b>TOTAL</b>	<b>\$94,998</b>	<b>\$138,194</b>	<b>\$148,847</b>	<b>\$155,970</b>	<b>\$150,188</b>	<b>\$151,203</b>	<b>\$155,547</b>	<b>\$159,972</b>	<b>\$164,322</b>	<b>\$169,873</b>

**SERVICES PROVIDED BY KING COUNTY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>	\$67,342	\$10,972	\$10,750	\$10,926	\$32,394	\$33,736	\$37,058	\$37,376	\$38,230	\$39,554
Monthly Regional Cost:	\$1,789	\$292	\$286	\$290	\$861	\$896	\$985	\$993	\$1,016	\$1,061
Agency Share: 2.7%	\$21,473	\$3,498	\$3,428	\$3,484	\$10,329	\$10,757	\$11,819	\$12,190	\$12,612	\$13,035
<b>Annual Cost</b>	<b>\$90,594</b>	<b>\$15,762</b>	<b>\$14,464</b>	<b>\$15,100</b>	<b>\$53,614</b>	<b>\$55,389</b>	<b>\$60,862</b>	<b>\$60,569</b>	<b>\$61,856</b>	<b>\$63,650</b>

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>	\$3,777	\$1,718	\$1,770	\$1,823	\$1,878	\$1,934	\$1,992	\$2,052	\$2,113	\$2,177
Monthly Regional Cost:	\$100	\$46	\$47	\$48	\$50	\$51	\$53	\$55	\$56	\$58
Agency Share: 2.7%	\$1,204	\$548	\$564	\$581	\$599	\$617	\$635	\$654	\$674	\$694
<b>Annual Cost</b>	<b>\$5,081</b>	<b>\$2,312</b>	<b>\$2,381</b>	<b>\$2,459</b>	<b>\$2,527</b>	<b>\$2,602</b>	<b>\$2,680</b>	<b>\$2,762</b>	<b>\$2,849</b>	<b>\$2,939</b>

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Monthly Regional Cost:	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Agency Share: 2.7%	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
<b>Annual Cost</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

<b>KCM Services - ANNUAL OPERATING COSTS:</b>	\$22,677	\$4,046	\$3,992	\$4,065	\$10,928	\$11,374	\$12,451	\$12,572	\$12,864	\$13,306
<b>TOTAL ANNUAL OPERATING COSTS:</b>	<b>\$72,139</b>	<b>\$84,081</b>	<b>\$86,029</b>	<b>\$88,345</b>	<b>\$97,503</b>	<b>\$97,010</b>	<b>\$100,371</b>	<b>\$102,802</b>	<b>\$105,442</b>	<b>\$108,283</b>

(Vendor and KCM services)

**KCM Service Assumptions:**

1. Estimates for Year 1 (2005) are preliminary. Actual costs will depend greatly upon roll-out strategy, institutional account demographics, and other variables.
2. Estimates for Year 1 (2005) assume incentives are established to encourage unaffiliated customers to obtain their cards via telephone, mail or internet.
3. Estimates for Year 1 (2005) assume aggressive marketing campaign to smaller institutional programs.
4. Estimates for Year 1 (2005) assume that EDPasses are distributed to the institution rather than to the individual.
5. Estimates include costs for marketing materials (information packets, etc.) These costs are based on the preliminary concepts developed by KCM marketing staff, actual costs may differ when the regional plan is established.
6. King County's cost estimates are based upon ridership and cash conversion assumptions (including RRFPP) as identified in RFC Project Capital Cost Worksheets Assumption Worksheet No. 3. This data was used to insure that KCM estimates are consistent with other pricing estimates for the project. Actual costs will be used once they are known.
7. For the King County Card Procurement, Inventory, Warehousing and Distribution Option, there will be an increase in capital costs to include modifications required to CARM for inventory management (\$72,319).

# E-PURSE TRANSACTIONS

## Kitsap Transit

### ANNUAL QUANTITY CALCULATION

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>PASS TRIPS</b>										
Annual Trips by Pass Holders	2,453,917	2,468,683	2,483,449	2,498,215	2,512,981	2,527,747	2,542,513	2,557,279	2,572,045	2,586,811
Monthly Trips by Pass Holders	204,493	205,724	206,954	208,185	209,415	210,646	211,876	213,107	214,337	215,568
Assumption: 15% of Pass Trips require E-purse transaction:	30,674	30,859	31,043	31,228	31,412	31,597	31,781	31,966	32,151	32,335
<b>CASH TRIPS</b>										
Annual Trips by Cash Riders	1,102,485	1,109,119	1,115,753	1,122,387	1,129,021	1,135,655	1,142,289	1,148,923	1,155,557	1,162,191
Monthly Trips by Cash Riders	91,874	92,427	92,979	93,532	94,085	94,638	95,191	95,744	96,296	96,849
Monthly Cash trips previously converted to Smart Card:	0	22,968	29,914	36,221	41,952	47,165	51,912	56,240	60,191	63,801
Remaining Monthly Trips taken by Cash Riders:	69,458	69,458	63,065	57,311	52,133	47,473	43,278	39,503	36,106	33,048
Monthly Cash Trips converting to Smart Card (E-Purse): (Year 1 25% of Cash trips, Years 2-10 10% of Cash trips)	22,968	6,946	6,307	5,731	5,213	4,747	4,328	3,950	3,611	3,305
<b>TOTAL CASH TRIPS USING E-PURSE:</b> (f. + h.)	22,968	29,914	36,221	41,952	47,165	51,912	56,240	60,191	63,801	67,106

### TOTAL NUMBER OF E-PURSE TRANSACTIONS PER MONTH

(Pass trips + Cash trips) / (c. + i.)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	53,642	60,773	67,264	73,180	78,577	83,509	88,922	92,157	95,952	99,441

### ASSUMPTIONS

- o Any fare transaction that requires full or partial payment with the E-purse will be considered an E-purse transaction.
- o 15% of Pass trips require E-purse transaction
- o Year 1 - 25% of Cash trips convert to Smart Card - using E-purse (annually)  
Years 2-10 - 10% of remaining Cash trips convert to Smart Card - using E-purse (annually)
- o Based on individual agency ridership projections (2005-2014) for both Cash & Pass trips.

## PASS PAYMENT TRANSACTIONS

### Kitsap Transit

#### ANNUAL QUANTITY CALCULATION

PASS TRIPS	1 2005	2 2006	3 2007	4 2008	5 2009	6 2010	7 2011	8 2012	9 2013	10 2014
Annual Trip Transactions by Pass Holders:	2,453,917	2,468,683	2,483,449	2,498,215	2,512,981	2,527,747	2,542,513	2,557,279	2,572,045	2,586,811
Monthly Trip Transactions taken by Pass Holders:	204,493	205,724	206,954	208,185	209,415	210,646	211,876	213,107	214,337	215,568
Assumption: 85% of Pass Trips NOT requiring an E-purse transaction:	173,819	174,865	175,911	176,957	178,003	179,049	180,095	181,141	182,187	183,232
<b>TOTAL NUMBER OF PASS PAYMENT TRANSACTIONS PER MONTH:</b>	<b>173,819</b>	<b>174,865</b>	<b>175,911</b>	<b>176,957</b>	<b>178,003</b>	<b>179,049</b>	<b>180,095</b>	<b>181,141</b>	<b>182,187</b>	<b>183,232</b>

#### ASSUMPTIONS

- o 85% of Smart Card Pass trips do not require any E-purse transaction.
- o Pass Payment Transactions are only those transactions not requiring any E-purse activity. (85% of Pass Riders)
- o Based on individual agency ridership projections (2005-2014) for Pass trips.

## REVALUE TRANSACTIONS

### Kitsap Transit

#### QUANTITY CALCULATION

Annual Number of Pass Holders using Smart Card:  
 Assumption: Number of Pass Holders who revalue once a month:  
 Number of revalue transactions per month for pass holders:

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	377,617	385,406	389,399	393,207	405,625	417,810	429,244	435,593	439,890	444,588
	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	75,523	77,081	77,880	78,641	81,125	83,562	85,849	87,119	87,978	88,918

Number of Cash Riders using Smart Card (E-purse):  
 Assumption: Number of times/month card is revalued:  
 Number of revalue transactions per month for pass holders:

	29,826	39,016	47,422	55,119	62,413	69,340	75,917	82,039	87,697	92,949
	3	3	3	3	3	3	3	3	3	3
	89,479	117,048	142,266	165,356	187,240	208,021	227,750	246,116	263,090	278,846

**TOTAL NUMBER OF REVALUE TRANSACTIONS PER MONTH:**

	165,002	194,129	220,146	243,997	269,365	291,583	313,599	333,235	351,068	367,763
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Number of revalue transactions/month through 3rd party retailers:  
 (15% of total revalue transactions)  
 Number of revalue transactions/month NOT through 3rd party retailers:  
 (85% of total revalue transactions)

	24,750	29,119	33,022	36,600	40,255	43,737	47,040	49,985	52,660	55,165
	140,252	165,009	187,124	207,397	228,110	247,846	266,559	283,250	298,408	312,599

Kitsap Transit (Agency % share)

Number of revalue transactions/month through 3rd party retailers:	658	774	877	973	1,070	1,162	1,250	1,328	1,399	1,466
Number of revalue transactions/month NOT through 3rd party retailers:	3,727	4,385	4,972	5,511	6,061	6,586	7,083	7,526	7,929	8,306

#### ASSUMPTIONS

- o 20% of Pass Holders using Smart Card would revalue once a month. This includes:
  - Individual pass holders
  - Employees with subsidized passes using electronic coupons
  - Administrative changes to subsidized passes
- o Cash riders using Smart Card (E-purse) would revalue 3 times a month assuming:
  - Reload discount @ \$20
  - Primarily infrequent riders, some requiring E-purse upgrades
- o Annual number of customers holding smart cards based assumptions defined on "Number of Fare Cards" worksheet over the 10-year contract.
- o Only revalue transactions conducted through 3rd party retailers are charged against the Revalue Transaction Fees. All other revalue transactions are charged against the Pass Payment/ E-purse Transaction Fees.





**Services**

**Customer Service**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$19,439	\$19,925	\$20,423	\$21,036	\$21,667	\$22,317	\$22,986	\$23,676	\$24,386	\$25,118
Agency Share: 2.8%	\$544	\$558	\$572	\$589	\$607	\$625	\$644	\$663	\$683	\$703
<b>WSF Annual Cost</b>	\$4,900	\$6,696	\$6,964	\$7,070	\$7,282	\$7,500	\$7,725	\$7,957	\$8,196	\$8,442

**Variable Costs**

Annual Regional Call Volumes:  
 Call Volumes paid by fixed fee  
 Call Volumes paid by variable fee  
 Agency Share: 2.8%  
 Cost per Call: (over 500/mo)

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Call Volumes	9,520	10,136	10,633	11,092	11,714	12,314	12,880	13,315	13,684	14,042
Call Volumes paid by fixed fee	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Call Volumes paid by variable fee	3,520	4,136	4,633	5,092	5,714	6,314	6,880	7,315	7,684	8,042
Agency Share: 2.8%	99	116	130	143	160	177	193	205	215	225
Cost per Call: (over 500/mo)	\$3.80	\$3.90	\$4.00	\$4.12	\$4.24	\$4.16	\$4.29	\$4.42	\$4.55	\$4.63
<b>WSF Annual Cost</b>	\$167	\$452	\$519	\$586	\$679	\$736	\$827	\$906	\$979	\$1,056

**Institutional Programs**

**Fixed Fee**  
 Monthly Regional Cost:  
 Agency Share: 2.8%  
 Regional Annual Cost:

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Monthly Regional Cost:	\$13,778	\$14,122	\$14,475	\$14,909	\$15,357	\$15,817	\$16,292	\$16,780	\$17,284	\$17,802
Agency Share: 2.8%	\$386	\$396	\$405	\$418	\$430	\$443	\$456	\$470	\$484	\$499
<b>Regional Annual Cost:</b>	\$3,473	\$3,745	\$4,085	\$4,511	\$4,927	\$5,316	\$5,745	\$6,240	\$6,809	\$7,383

**Variable Costs**

# of Institutional Programs  
 Monthly Regional Programs:  
 Agency Share: 2.8%  
 Cost per Program:

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
# of Institutional Programs	1,348	1,388	1,430	1,473	1,517	1,563	1,610	1,658	1,708	1,759
Monthly Regional Programs:	38	39	40	41	42	44	45	46	48	49
Agency Share: 2.8%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Cost per Program:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>WSF Annual Cost</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**Fare Card Management**

**Fixed Fee**  
 Monthly Regional Cost:  
 Agency Share: 2.8%  
 WSF Annual Cost

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Monthly Regional Cost:	\$6,325	\$6,483	\$6,645	\$6,844	\$7,050	\$7,261	\$7,479	\$7,703	\$7,934	\$8,173
Agency Share: 2.8%	\$177	\$182	\$186	\$192	\$197	\$203	\$209	\$216	\$222	\$229
<b>WSF Annual Cost</b>	\$1,894	\$2,176	\$2,233	\$2,300	\$2,366	\$2,440	\$2,514	\$2,589	\$2,667	\$2,747

**Card Procurement & Dist.**

**Fixed Fee**  
 Monthly Regional Cost:  
 Agency Share: 2.8%  
 WSF Annual Cost

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Monthly Regional Cost:	\$11,167	\$11,446	\$11,732	\$12,084	\$12,446	\$12,820	\$13,204	\$13,601	\$14,009	\$14,429
Agency Share: 2.8%	\$313	\$321	\$329	\$338	\$349	\$359	\$370	\$381	\$392	\$404
<b>WSF Annual Cost</b>	\$2,815	\$3,847	\$3,943	\$4,061	\$4,183	\$4,309	\$4,438	\$4,571	\$4,708	\$4,848

**Variable Costs**

Annual # of Shipments:  
 Agency Share: 2.8%  
 Cost per Shipment:

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
# of card batches	12	12	12	12	12	12	12	12	12	12
Annual # of Shipments:	0	0	0	0	0	0	0	0	0	0
Agency Share: 2.8%	\$40.33	\$41.34	\$42.38	\$43.65	\$44.96	\$46.31	\$47.70	\$49.13	\$50.60	\$52.12
Cost per Shipment:	\$7	\$4	\$4	\$15	\$15	\$15	\$16	\$17	\$17	\$18
<b>WSF Annual Cost</b>	\$284	\$344	\$314	\$15	\$15	\$15	\$16	\$17	\$17	\$18

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$52,778	\$54,097	\$55,450	\$57,114	\$58,827	\$60,592	\$62,409	\$64,282	\$66,210	\$68,197
Agency Share: 2.8%	\$1,478	\$1,515	\$1,553	\$1,600	\$1,648	\$1,697	\$1,748	\$1,800	\$1,854	\$1,910
<b>WSF Annual Cost</b>	\$13,003	\$18,181	\$18,836	\$19,935	\$19,771	\$20,364	\$20,975	\$21,604	\$22,252	\$22,920

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Variable Costs</b>										
Monthly Qty.	199,163	213,288	226,326	238,403	249,678	260,196	270,031	279,225	287,853	295,987
Annual Qty.	2,389,952	2,559,458	2,715,912	2,860,839	2,996,137	3,122,348	3,240,372	3,350,699	3,454,238	3,551,846
Cost per Transaction:	\$0.004	\$0.004	\$0.004	\$0.004	\$0.004	\$0.003	\$0.003	\$0.003	\$0.003	\$0.003
<b>WSF Annual Cost</b>	\$4,780	\$10,238	\$10,864	\$11,443	\$11,965	\$12,537	\$13,162	\$13,832	\$14,556	\$15,333

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Variable Costs</b>										
Monthly Qty.	693	816	925	1,025	1,127	1,225	1,317	1,400	1,475	1,545
Annual Qty.	8,318	9,787	11,098	12,301	13,529	14,699	15,809	16,799	17,698	18,540
Cost per Transaction:	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04
<b>WSF Annual Cost</b>	\$165	\$391	\$444	\$492	\$541	\$589	\$632	\$672	\$708	\$742

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$11,556	\$11,844	\$12,141	\$12,505	\$12,880	\$13,267	\$13,665	\$14,075	\$14,497	\$14,932
Agency Share: 2.8%	\$324	\$332	\$340	\$350	\$361	\$372	\$383	\$394	\$406	\$418
<b>WSF Annual Cost</b>	\$2,813	\$3,981	\$4,480	\$4,283	\$4,329	\$4,453	\$4,593	\$4,730	\$4,872	\$5,018

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$13,587	\$13,927	\$14,275	\$14,703	\$15,144	\$15,599	\$16,067	\$16,549	\$17,045	\$17,556
Agency Share: 2.8%	\$381	\$390	\$400	\$412	\$424	\$437	\$450	\$463	\$477	\$492
<b>WSF Annual Cost</b>	\$3,425	\$4,681	\$4,798	\$4,942	\$5,090	\$5,242	\$5,400	\$5,562	\$5,729	\$5,900

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$10,556	\$10,819	\$11,090	\$11,423	\$11,765	\$12,118	\$12,482	\$12,856	\$13,242	\$13,639
Agency Share: 2.8%	\$296	\$303	\$311	\$320	\$330	\$339	\$350	\$360	\$371	\$382
<b>WSF Annual Cost</b>	\$2,684	\$3,636	\$3,727	\$3,839	\$3,924	\$4,073	\$4,195	\$4,321	\$4,450	\$4,584

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Variable Costs</b>										
No. of retail Sites/month:	127	127	127	127	127	127	127	127	127	127
Agency Share: 2.8%	\$8.10	\$8.30	\$8.51	\$8.77	\$9.03	\$9.30	\$9.58	\$9.87	\$10.16	\$10.47
Cost per Site/month:	\$173	\$354	\$363	\$374	\$385	\$397	\$409	\$421	\$434	\$447
<b>WSF Annual Cost</b>	\$20,766	\$40,320	\$43,638	\$45,324	\$46,530	\$47,760	\$49,014	\$50,292	\$51,594	\$52,926

**WSF COST SUMMARY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>DEPOT MAINTENANCE</b>	\$0	\$1,692	\$1,742	\$1,795	\$1,848	\$1,904	\$1,961	\$2,020	\$2,080	\$2,143
<b>ON-CALL MAINTENANCE</b>	\$0	\$4,460	\$4,594	\$4,731	\$4,873	\$5,020	\$5,170	\$5,325	\$5,485	\$5,650
<b>TECHNICAL SUPPORT MAINTENANCE</b>	\$0	\$3,056	\$3,148	\$3,243	\$3,340	\$3,440	\$3,543	\$3,650	\$3,759	\$3,872
<b>SOFTWARE MAINTENANCE</b>	\$10,669	\$10,669	\$10,669	\$10,669	\$10,669	\$10,669	\$10,669	\$10,669	\$10,669	\$10,669
<b>TOTAL MAINTENANCE:</b>	\$10,669	\$19,877	\$20,153	\$20,437	\$20,730	\$21,032	\$21,343	\$21,663	\$21,993	\$22,333
<b>CUSTOMER SERVICE</b>	\$5,087	\$7,148	\$7,383	\$7,657	\$7,961	\$8,236	\$8,552	\$8,863	\$9,175	\$9,498
<b>INSTITUTIONAL PROGRAMS</b>	\$3,473	\$4,746	\$4,865	\$5,011	\$5,161	\$5,316	\$5,475	\$5,640	\$5,809	\$5,983
<b>CARD PROCUREMENT &amp; DIST.</b>	\$2,822	\$3,861	\$4,076	\$4,198	\$4,324	\$4,454	\$4,587	\$4,725	\$4,867	\$5,011
<b>FARE CARD MANAGEMENT</b>	\$1,594	\$2,179	\$2,233	\$2,300	\$2,369	\$2,440	\$2,514	\$2,589	\$2,667	\$2,747
<b>CLEARINGHOUSE SERVICES</b>	\$18,250	\$28,810	\$29,943	\$31,130	\$32,298	\$33,519	\$34,788	\$36,102	\$37,461	\$38,865
<b>FINANCIAL MANAGEMENT</b>	\$2,913	\$3,981	\$4,080	\$4,203	\$4,329	\$4,459	\$4,593	\$4,730	\$4,872	\$5,018
<b>NETWORK MANAGEMENT</b>	\$3,425	\$4,681	\$4,798	\$4,942	\$5,090	\$5,242	\$5,400	\$5,562	\$5,729	\$5,900
<b>REVALUE NETWORK SUPPORT</b>	\$2,834	\$3,990	\$4,090	\$4,213	\$4,340	\$4,470	\$4,604	\$4,742	\$4,884	\$5,031
<b>TOTAL SERVICES:</b>	\$40,397	\$59,396	\$61,350	\$63,532	\$65,744	\$68,006	\$70,319	\$72,681	\$75,094	\$77,561
<b>Services</b>										
<b>Fixed Costs</b>	\$35,084	\$47,947	\$49,146	\$50,620	\$52,139	\$53,703	\$55,314	\$56,974	\$58,683	\$60,443
<b>Variable Costs</b>	\$5,313	\$11,449	\$12,204	\$12,912	\$13,605	\$14,303	\$15,005	\$15,707	\$16,411	\$17,118
<b>Revised BAFO Costs</b>										
<b>WSF</b>	\$51,066	\$79,273	\$81,503	\$83,970	\$86,475	\$88,839	\$91,262	\$93,704	\$96,177	\$98,694

**VENDOR - ANNUAL OPERATING COSTS:**  
(Maintenance & Services)

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$67,342	\$10,972	\$10,750	\$10,926	\$32,394	\$33,736	\$37,058	\$37,376	\$38,230	\$39,554
\$1,886	\$307	\$301	\$306	\$907	\$945	\$1,038	\$1,047	\$1,071	\$1,108
<b>\$22,632</b>	<b>\$3,087</b>	<b>\$3,051</b>	<b>\$3,072</b>	<b>\$10,287</b>	<b>\$11,333</b>	<b>\$12,434</b>	<b>\$12,561</b>	<b>\$12,843</b>	<b>\$13,293</b>

**SERVICES PROVIDED BY KING COUNTY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Fixed Fee</b>										
Monthly Regional Cost:	\$67,342	\$10,972	\$10,750	\$10,926	\$32,394	\$33,736	\$37,058	\$37,376	\$38,230	\$39,554
Agency Share: 2.8%	\$1,886	\$307	\$301	\$306	\$907	\$945	\$1,038	\$1,047	\$1,071	\$1,108
<b>WSF</b>	<b>\$22,632</b>	<b>\$3,087</b>	<b>\$3,051</b>	<b>\$3,072</b>	<b>\$10,287</b>	<b>\$11,333</b>	<b>\$12,434</b>	<b>\$12,561</b>	<b>\$12,843</b>	<b>\$13,293</b>
<b>Additional Card Procurement, Inventory, Warehousing &amp; Distribution Functions</b>										
Monthly Regional Cost:	\$3,777	\$1,718	\$1,770	\$1,823	\$1,878	\$1,934	\$1,992	\$2,052	\$2,113	\$2,177
Agency Share: 2.8%	\$106	\$48	\$50	\$51	\$53	\$54	\$56	\$57	\$59	\$61
<b>WSF</b>	<b>\$1,269</b>	<b>\$578</b>	<b>\$595</b>	<b>\$613</b>	<b>\$631</b>	<b>\$650</b>	<b>\$670</b>	<b>\$690</b>	<b>\$710</b>	<b>\$732</b>
<b>Invoicing &amp; Funds Collection</b>										
Monthly Regional Cost:	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Agency Share: 2.8%	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
<b>WSF</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**KCM Services - ANNUAL OPERATING COSTS:**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$23,902	\$4,265	\$4,208	\$4,285	\$11,518	\$11,988	\$13,124	\$13,251	\$13,559	\$14,025
\$74,968	\$83,538	\$85,711	\$88,254	\$97,993	\$97,826	\$101,386	\$103,955	\$106,735	\$109,719
<b>\$98,870</b>	<b>\$87,803</b>	<b>\$90,919</b>	<b>\$92,539</b>	<b>\$111,511</b>	<b>\$111,814</b>	<b>\$114,510</b>	<b>\$117,206</b>	<b>\$120,294</b>	<b>\$123,744</b>

**TOTAL ANNUAL OPERATING COSTS:**  
(Vendor and KCM services)

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$103,936	\$161,355	\$164,563	\$167,042	\$173,273	\$181,166	\$184,976	\$187,265	\$190,017	\$192,439

**KCM Service Assumptions:**

1. Estimates for Year 1 (2005) are preliminary. Actual costs will depend greatly upon roll-out strategy, institutional account demographics, and other variables.
2. Estimates for Year 1 (2005) assume incentives are established to encourage unaffiliated customers to obtain their cards via telephone, mail or internet.
3. Estimates for Year 1 (2005) assume aggressive marketing campaign to smaller institutional programs.
4. Estimates for Year 1 (2005) assume that EDPasses are distributed to the institution rather than to the individual.
5. Estimates include costs for marketing materials (information packets, etc.) These costs are based on the preliminary concepts developed by KCM marketing staff, actual costs may differ when the regional plan is established.
6. King County's cost estimates are based upon ridership and cash conversion assumptions (including RRFPP) as identified in RFC Project Capital Cost Worksheets Assumption Worksheet No. 3. This data was used to insure that KCM estimates are consistent with other pricing estimates for the project. Actual costs will be used once they are known.
7. For the King County Card Procurement, Inventory, Warehousing and Distribution Option, there will be an increase in capital costs to include modifications required to CARM for inventory management (\$72,319).

# E-PURSE TRANSACTIONS

## WSF

ANNUAL QUANTITY CALCULATION	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>PASS TRIPS</b>										
Annual Trips by Pass Holders	1,874,252	1,892,995	1,911,925	1,931,044	1,950,354	1,969,858	1,989,556	2,009,452	2,029,547	2,049,842
Monthly Trips by Pass Holders	156,188	157,750	159,327	160,920	162,530	164,155	165,796	167,454	169,129	170,820
Assumption: 15% of Pass Trips require E-purse transaction:	23,428	23,662	23,899	24,138	24,379	24,623	24,869	25,118	25,369	25,623
<b>CASH TRIPS</b>										
Annual Trips by Cash Riders	1,874,252	1,892,995	1,911,925	1,931,044	1,950,354	1,969,858	1,989,556	2,009,452	2,029,547	2,049,842
Monthly Trips by Cash Riders	156,188	157,750	159,327	160,920	162,530	164,155	165,796	167,454	169,129	170,820
Monthly Cash trips previously converted to Smart Card:	0	39,047	50,917	61,758	71,674	80,760	89,099	96,769	103,838	110,367
Remaining Monthly Trips taken by Cash Riders:	118,703	118,703	108,410	99,162	90,855	83,395	76,697	70,685	65,291	60,453
Monthly Cash Trips converting to Smart Card (E-Purse): (Year 1 25% of Cash trips, Years 2-10 10% of Cash trips)	39,047	11,870	10,841	9,916	9,086	8,339	7,670	7,069	6,529	6,045
<b>TOTAL CASH TRIPS USING E-PURSE:</b> (f. + h.)	39,047	50,917	61,758	71,674	80,760	89,099	96,769	103,838	110,367	116,412
<b>TOTAL NUMBER OF E-PURSE TRANSACTIONS PER MONTH:</b> (Pass trips + Cash trips) (c. + i.)	52,475	74,580	85,657	95,832	105,139	113,723	121,638	128,956	135,736	142,035

## ASSUMPTIONS

- o Any fare transaction that requires full or partial payment with the E-purse will be considered an E-purse transaction.
- o 15% of Pass trips require E-purse transaction
- o Year 1 - 25% of Cash trips convert to Smart Card - using E-purse  
Years 2-10 - 10% of remaining Cash trips convert to Smart Card - using E-purse (annually)
- o Based on individual agency ridership projections (2005-2014) for both Cash & Pass trips.

## PASS PAYMENT TRANSACTIONS

WSF	1	2	3	4	5	6	7	8	9	10
<b>ANNUAL QUANTITY CALCULATION</b>										
<b>PASS TRIPS</b>										
Annual Trip Transactions by Pass Holders:	1,874,252	1,892,995	1,911,925	1,931,044	1,950,354	1,969,858	1,989,556	2,009,452	2,029,547	2,049,842
Monthly Trip Transactions taken by Pass Holders:	156,188	157,750	159,327	160,920	162,530	164,155	165,796	167,454	169,129	170,820
Assumption: 85% of Pass Trips NOT requiring an E-purse transaction:	132,760	134,087	135,428	136,782	138,150	139,532	140,927	142,336	143,760	145,197
<b>TOTAL NUMBER OF PASS PAYMENT TRANSACTIONS PER MONTH:</b>	<b>132,760</b>	<b>134,087</b>	<b>135,428</b>	<b>136,782</b>	<b>138,150</b>	<b>139,532</b>	<b>140,927</b>	<b>142,336</b>	<b>143,760</b>	<b>145,197</b>

### ASSUMPTIONS

- o 85% of Smart Card Pass trips do not require any E-purse transaction.
- o Pass Payment Transactions are only those transactions not requiring any E-purse activity. (85% of Pass Riders)
- o Based on individual agency ridership projections (2005-2014) for Pass trips.

## REVALUE TRANSACTIONS

### WSF

#### QUANTITY CALCULATION

Annual Number of Pass Holders using Smart Card:  
 Assumption: Number of Pass Holders who revalue once a month:  
 Number of revalue transactions per month for pass holders:

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	377,617	385,406	389,399	393,207	405,625	417,810	429,244	435,593	439,890	444,588
	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	75,523	77,081	77,880	78,641	81,125	83,562	85,849	87,119	87,978	88,918

Number of Cash Riders using Smart Card (E-purse):  
 Assumption: Number of times/month card is revalued:  
 Number of revalue transactions per month for pass holders:

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	29,826	39,016	47,422	55,119	62,413	69,340	75,917	82,039	87,697	92,949
	3	3	3	3	3	3	3	3	3	3
	89,479	117,048	142,266	165,356	187,240	208,021	227,750	246,116	263,090	278,846

#### TOTAL NUMBER OF REVALUE TRANSACTIONS PER MONTH:

	185,002	194,129	220,146	243,997	268,365	291,583	313,599	333,235	351,068	367,763
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Number of revalue transactions/month through 3rd party retailers:  
 (15% of total revalue transactions)  
 Number of revalue transactions/month NOT through 3rd party retailers:  
 (85% of total revalue transactions)

	24,750	29,119	33,022	36,600	40,255	43,737	47,040	49,985	52,660	55,165
	140,252	165,009	187,124	207,397	228,110	247,846	266,559	283,250	298,408	312,599

### WSF

(Agency % share)

	2.8%	2.8%	2.8%	2.8%	2.8%	2.8%	2.8%	2.8%	2.8%	2.8%
	693	816	925	1,025	1,127	1,225	1,317	1,400	1,475	1,545
	3,928	4,621	5,241	5,809	6,389	6,941	7,466	7,933	8,359	8,755

### ASSUMPTIONS

- o 20% of Pass Holders using Smart Card would revalue once a month. This includes:
  - Individual pass holders
  - Employees with subsidized passes using electronic coupons
  - Administrative changes to subsidized passes
- o Cash riders using Smart Card (E-purse) would revalue 3 times a month assuming:
  - Reload discount @ \$20
  - Primarily infrequent riders, some requiring E-purse upgrades
- o Annual number of customers holding smart cards based assumptions defined on "Number of Fare Cards" worksheet over the 10-year contract.
- o Only revalue transactions conducted through 3rd party retailers are charged against the Revalue Transaction Fees. All other revalue transactions are charged against the Pass Payment/E-purse Transaction Fees.



**Pierce Transit**

**9.2% Revised BAFO Costs**

**OPERATIONAL COSTS**

Failure Rate (5%)

Price per Event	quantities	quantities	Monthly Cost
\$116	172	9	\$45
\$460	0	0	\$139
\$460	0	0	\$314
\$354	0	0	\$444
\$138	172	9	\$45
\$186	0	0.0	\$17
\$332	1	0.1	\$37
\$115	172	9	\$45
<b>TOTAL</b>			<b>\$2,925</b>

**Depot Maintenance:**

On-Board FTP  
 Stand-Alone FTP - ST config.  
 Stand-Alone FTP - WT config.  
 Portable FTP - verifier only  
 Portable FTP - full function  
 DDU  
 TVM Integration Kit  
 Wireless Data Sys-Base  
 Wireless Data Sys-On-Board  
**TOTAL**

**On-Site Maintenance:**

Monthly Cost/unit	quantities	Monthly Cost
\$45.14	1	\$45
\$138.82	1	\$139
\$52.27	6	\$314
\$110.89	4	\$444
<b>TOTAL</b>		<b>\$941</b>

**Technical**

**Support Maintenance:**

Monthly Cost/unit	quantities	Monthly Cost
\$0.56	172	\$100
\$2.94	0	\$0
\$1.87	0	\$0
\$1.09	172	\$188
\$2.50	1	\$3
\$0.65	172	\$112
\$5.39	1	\$5
\$16.57	1	\$17
\$1.17	0	\$0
\$6.24	6	\$37
\$13.23	4	\$53
<b>TOTAL</b>		<b>\$514</b>

**Software Maintenance:**

Monthly Cost/unit	Agency Share	Monthly Cost
\$31,745	9.2%	\$2,925
<b>TOTAL</b>		<b>\$34,670</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$999	\$1,029	\$1,060	\$1,091	\$1,124	\$1,158	\$1,193	\$1,228	\$1,265
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$1,188	\$1,224	\$1,261	\$1,298	\$1,337	\$1,377	\$1,419	\$1,461	\$1,505
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$17	\$17	\$18	\$18	\$19	\$19	\$20	\$20	\$21
	\$990	\$1,020	\$1,050	\$1,082	\$1,114	\$1,148	\$1,182	\$1,218	\$1,254
<b>TOTAL</b>	<b>\$3,194</b>	<b>\$3,290</b>	<b>\$3,385</b>	<b>\$3,490</b>	<b>\$3,595</b>	<b>\$3,702</b>	<b>\$3,813</b>	<b>\$3,928</b>	<b>\$4,046</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$542	\$568	\$575	\$592	\$610	\$628	\$647	\$666	\$686
	\$1,666	\$1,716	\$1,767	\$1,820	\$1,875	\$1,931	\$1,989	\$2,049	\$2,110
	\$3,763	\$3,876	\$3,993	\$4,112	\$4,236	\$4,363	\$4,494	\$4,629	\$4,767
	\$5,323	\$5,482	\$5,647	\$5,816	\$5,991	\$6,170	\$6,356	\$6,546	\$6,743
<b>TOTAL</b>	<b>\$11,294</b>	<b>\$11,632</b>	<b>\$11,981</b>	<b>\$12,341</b>	<b>\$12,711</b>	<b>\$13,092</b>	<b>\$13,485</b>	<b>\$13,890</b>	<b>\$14,306</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
warranty	\$1,199	\$1,234	\$1,272	\$1,310	\$1,349	\$1,389	\$1,431	\$1,474	\$1,518
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$2,252	\$2,320	\$2,390	\$2,461	\$2,535	\$2,611	\$2,689	\$2,770	\$2,853
	\$30	\$31	\$32	\$33	\$34	\$35	\$36	\$37	\$38
	\$1,343	\$1,363	\$1,425	\$1,468	\$1,512	\$1,557	\$1,604	\$1,652	\$1,701
	\$65	\$67	\$69	\$71	\$73	\$75	\$77	\$80	\$82
	\$199	\$205	\$211	\$217	\$224	\$231	\$237	\$245	\$252
	\$449	\$463	\$477	\$491	\$506	\$521	\$536	\$553	\$569
	\$635	\$654	\$674	\$694	\$715	\$736	\$758	\$781	\$804
<b>TOTAL</b>	<b>\$6,172</b>	<b>\$6,357</b>	<b>\$6,543</b>	<b>\$6,744</b>	<b>\$6,947</b>	<b>\$7,155</b>	<b>\$7,370</b>	<b>\$7,591</b>	<b>\$7,818</b>

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$35,102	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102
<b>TOTAL</b>	<b>\$35,102</b>	<b>\$35,102</b>	<b>\$35,102</b>	<b>\$35,102</b>	<b>\$35,102</b>	<b>\$35,102</b>	<b>\$35,102</b>	<b>\$35,102</b>	<b>\$35,102</b>

**Services**

**Customer Service**

**Fixed Fee**  
 Monthly Regional Cost: 9.2%  
 Agency Share: 9.2%  
**PT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$19,439	\$19,925	\$20,423	\$21,036	\$21,667	\$22,317	\$22,986	\$23,676	\$24,386	\$25,118
\$1,791	\$1,836	\$1,882	\$1,938	\$1,997	\$2,056	\$2,118	\$2,182	\$2,247	\$2,315
\$16,121	\$22,032	\$22,583	\$23,263	\$23,858	\$24,677	\$25,417	\$26,180	\$26,965	\$27,774
									\$236,967

**Variable Costs**

Annual Regional Call Volumes:  
 Call Volumes paid by fixed fee  
 Call Volumes paid by variable fee  
 Agency Share: 9.2%  
 Cost per Call: (over 500/mo)  
**PT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
9,520	10,136	10,633	11,092	11,714	12,314	12,880	13,315	13,684	14,042
6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
3,520	4,136	4,633	5,092	5,714	6,314	6,880	7,315	7,684	8,042
324	381	427	469	527	582	634	674	708	741
\$3.80	\$3.90	\$4.00	\$4.12	\$4.24	\$4.16	\$4.29	\$4.42	\$4.55	\$4.69
\$616	\$1,486	\$1,703	\$1,933	\$2,234	\$2,420	\$2,720	\$2,979	\$3,222	\$3,475

**Institutional Programs**

**Fixed Fee**  
 Monthly Regional Cost: 9.2%  
 Agency Share: 9.2%  
 Regional Annual Cost:

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$13,778	\$14,122	\$14,475	\$14,909	\$15,357	\$15,817	\$16,292	\$16,780	\$17,284	\$17,802
\$1,270	\$1,301	\$1,334	\$1,374	\$1,415	\$1,457	\$1,501	\$1,546	\$1,593	\$1,640
\$11,426	\$12,615	\$13,066	\$13,466	\$13,981	\$14,490	\$15,015	\$15,555	\$16,112	\$16,685
									\$169,371

**Variable Costs**

# of Institutional Programs  
 Monthly Regional Programs:  
 Agency Share: 9.2%  
 Cost per Program:  
**PT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
1,348	1,388	1,430	1,473	1,517	1,563	1,610	1,658	1,708	1,759
124	128	132	136	140	144	148	153	157	162
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**Fare Card Management**

**Fixed Fee**  
 Monthly Regional Cost: 9.2%  
 Agency Share: 9.2%  
**PT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$6,325	\$6,483	\$6,645	\$6,844	\$7,050	\$7,261	\$7,479	\$7,703	\$7,934	\$8,173
\$583	\$597	\$612	\$631	\$650	\$669	\$689	\$710	\$731	\$753
\$5,245	\$7,169	\$7,348	\$7,568	\$7,795	\$8,025	\$8,270	\$8,513	\$8,774	\$9,037
									\$77,753

**Card Procurement & Dist.**

**Fixed Fee**  
 Monthly Regional Cost: 9.2%  
 Agency Share: 9.2%  
**PT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
\$11,167	\$11,446	\$11,732	\$12,084	\$12,446	\$12,820	\$13,204	\$13,601	\$14,009	\$14,429
\$1,029	\$1,055	\$1,081	\$1,113	\$1,147	\$1,181	\$1,217	\$1,253	\$1,291	\$1,330
\$9,261	\$12,656	\$12,973	\$13,362	\$13,763	\$14,176	\$14,601	\$15,039	\$15,490	\$15,955
									\$137,275

**Variable Costs**

Annual # of Shipments:  
 Agency Share: 9.2%  
 Cost per Shipment:  
**PT Annual Cost**

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
12	12	12	12	12	12	12	12	12	12
1	1	1	1	1	1	1	1	1	1
\$40.33	\$41.34	\$42.38	\$43.65	\$44.96	\$46.31	\$47.70	\$49.13	\$50.60	\$52.12
\$22	\$46	\$47	\$48	\$50	\$51	\$53	\$54	\$56	\$58

<b>Clearinghouse Services</b>											
<b>Fixed Fee</b>											
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
\$52,778	\$54,097	\$55,450	\$57,114	\$58,827	\$60,592	\$62,409	\$64,282	\$66,210	\$68,197		
\$4,863	\$4,985	\$5,110	\$5,263	\$5,421	\$5,583	\$5,751	\$5,923	\$6,101	\$6,284		
\$43,770	\$59,018	\$61,314	\$65,153	\$65,043	\$67,000	\$68,010	\$71,080	\$73,212	\$76,403		
<b>Monthly Regional Cost: 9.2%</b>											
<b>Agency Share: 9.2%</b>											
<b>PT Annual Cost</b>											

<b>E-Purse, Pass Payment &amp; Revalue Transactions</b>											
<b>Variable Costs</b>											
PT	Monthly Qty.	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
547,354	607,624	664,070	717,165	767,480	815,243	860,746	904,149	945,735	985,773		
6,566,244	7,291,484	7,968,835	8,605,980	9,209,758	9,782,912	10,328,947	10,849,794	11,348,823	11,829,275		
\$0.004	\$0.004	\$0.004	\$0.004	\$0.004	\$0.004	\$0.003	\$0.003	\$0.003	\$0.003		
\$13,138	\$29,166	\$31,875	\$34,424	\$36,839	\$39,149	\$40,967	\$42,549	\$44,046	\$45,483		
<b># of transactions</b>											

<b>Revalue Transactions (3rd party)</b>											
<b>Variable Costs</b>											
PT	Monthly Qty.	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
2,281	2,663	3,043	3,373	3,709	4,030	4,335	4,606	4,852	5,083		
27,368	32,199	36,514	40,470	44,512	48,363	52,014	55,271	58,229	60,998		
\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04		
\$547	\$1,288	\$1,461	\$1,619	\$1,760	\$1,933	\$2,061	\$2,211	\$2,329	\$2,443		
<b># of transactions</b>											

<b>Financial Management</b>											
<b>Fixed Fee</b>											
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
\$11,556	\$11,844	\$12,141	\$12,505	\$12,880	\$13,267	\$13,665	\$14,075	\$14,497	\$14,932		
\$1,065	\$1,091	\$1,119	\$1,152	\$1,187	\$1,222	\$1,259	\$1,297	\$1,336	\$1,376		
\$9,584	\$13,097	\$13,426	\$13,828	\$14,243	\$14,670	\$15,110	\$15,563	\$16,030	\$16,511		
<b>Monthly Regional Cost: 9.2%</b>											
<b>Agency Share: 9.2%</b>											
<b>PT Annual Cost</b>											

<b>Network Management</b>											
<b>Fixed Fee</b>											
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
\$13,587	\$13,927	\$14,275	\$14,703	\$15,144	\$15,599	\$16,067	\$16,549	\$17,045	\$17,556		
\$1,252	\$1,283	\$1,315	\$1,355	\$1,395	\$1,437	\$1,480	\$1,525	\$1,571	\$1,618		
\$11,268	\$15,400	\$15,795	\$16,268	\$16,746	\$17,248	\$17,766	\$18,299	\$18,848	\$19,413		
<b>Monthly Regional Cost: 9.2%</b>											
<b>Agency Share: 9.2%</b>											
<b>PT Annual Cost</b>											

<b>Revalue Network Support</b>											
<b>Fixed Fee</b>											
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10		
\$10,556	\$10,819	\$11,090	\$11,423	\$11,765	\$12,118	\$12,482	\$12,856	\$13,242	\$13,639		
\$973	\$997	\$1,022	\$1,053	\$1,084	\$1,117	\$1,150	\$1,185	\$1,220	\$1,257		
\$8,754	\$11,963	\$12,263	\$12,631	\$13,010	\$13,400	\$13,802	\$14,216	\$14,642	\$15,082		
<b>Monthly Regional Cost: 9.2%</b>											
<b>Agency Share: 9.2%</b>											
<b>PT Annual Cost</b>											

<b>Variable Costs</b>											
No. of retail Sites/month:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
127	127	127	127	127	127	127	127	127	127	127	127
12	12	12	12	12	12	12	12	12	12	12	12
\$8.10	\$8.30	\$8.51	\$8.77	\$9.03	\$9.30	\$9.58	\$9.87	\$10.16	\$10.47		
\$569	\$1,166	\$1,196	\$1,232	\$1,268	\$1,306	\$1,345	\$1,386	\$1,427	\$1,470		
<b>Agency Share: 9.2%</b>											
<b>Cost per Site/month:</b>											
<b>PT Annual Cost</b>											

**Pierce Transit COST SUMMARY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>DEPOT MAINTENANCE</b>	\$0	\$3,194	\$3,290	\$3,388	\$3,490	\$3,595	\$3,702	\$3,813	\$3,928	\$4,046
ON-CALL MAINTENANCE	\$0	\$11,294	\$11,632	\$11,981	\$12,341	\$12,711	\$13,092	\$13,485	\$13,890	\$14,306
TECHNICAL SUPPORT MAINTENANCE	\$0	\$6,172	\$6,357	\$6,548	\$6,744	\$6,947	\$7,155	\$7,370	\$7,591	\$7,818
SOFTWARE MAINTENANCE	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102	\$35,102
<b>TOTAL MAINTENANCE:</b>	<b>\$35,102</b>	<b>\$55,761</b>	<b>\$56,381</b>	<b>\$57,020</b>	<b>\$57,677</b>	<b>\$58,354</b>	<b>\$59,052</b>	<b>\$59,770</b>	<b>\$60,510</b>	<b>\$61,273</b>

<b>CUSTOMER SERVICE</b>	\$16,737	\$23,519	\$24,291	\$25,183	\$26,193	\$27,097	\$28,137	\$29,159	\$30,187	\$31,249
INSTITUTIONAL PROGRAMS	\$11,426	\$15,615	\$16,006	\$16,486	\$16,981	\$17,490	\$18,015	\$18,555	\$19,112	\$19,685
CARD PROCUREMENT & DIST.	\$9,283	\$12,702	\$13,020	\$13,410	\$13,812	\$14,227	\$14,654	\$15,093	\$15,546	\$16,012
FARE CARD MANAGEMENT	\$5,245	\$7,169	\$7,348	\$7,568	\$7,795	\$8,029	\$8,270	\$8,518	\$8,774	\$9,037
CLEARINGHOUSE SERVICES	\$57,453	\$90,272	\$94,650	\$99,196	\$103,668	\$98,283	\$102,077	\$105,840	\$109,588	\$113,336
FINANCIAL MANAGEMENT	\$9,584	\$13,097	\$13,425	\$13,828	\$14,243	\$14,670	\$15,110	\$15,563	\$16,030	\$16,511
NETWORK MANAGEMENT	\$11,268	\$15,400	\$15,785	\$16,258	\$16,746	\$17,248	\$17,766	\$18,299	\$18,848	\$19,413
REVALUE NETWORK SUPPORT	\$9,323	\$13,129	\$13,458	\$13,862	\$14,278	\$14,706	\$15,147	\$15,602	\$16,069	\$16,552
<b>TOTAL SERVICES:</b>	<b>\$130,320</b>	<b>\$190,902</b>	<b>\$197,981</b>	<b>\$205,802</b>	<b>\$213,715</b>	<b>\$211,750</b>	<b>\$219,175</b>	<b>\$226,629</b>	<b>\$234,153</b>	<b>\$241,796</b>

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Pierce Transit</b>	\$115,429	\$157,750	\$161,695	\$166,546	\$171,543	\$176,689	\$181,990	\$187,449	\$193,073	\$198,865
Revised BAFO Costs	\$14,891	\$33,152	\$36,286	\$39,256	\$42,172	\$45,061	\$47,985	\$50,980	\$53,997	\$57,031
<b>TOTAL</b>	<b>\$130,320</b>	<b>\$190,902</b>	<b>\$197,981</b>	<b>\$205,802</b>	<b>\$213,715</b>	<b>\$211,750</b>	<b>\$219,175</b>	<b>\$226,629</b>	<b>\$234,153</b>	<b>\$241,796</b>

**VENDOR - ANNUAL OPERATING COSTS:**  
(Maintenance & Services)

Fixed Fee	\$165,422
Monthly Regional Cost:	\$246,663
Agency Share: 9.2%	\$254,362
PT	\$262,822
<b>Annual Cost</b>	<b>\$270,104</b>

**SERVICES PROVIDED BY KING COUNTY**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>New Card Fulfillment</b>	\$67,342	\$10,972	\$10,750	\$10,926	\$32,394	\$33,736	\$37,058	\$37,376	\$38,230	\$39,554
Fixed Fee	\$6,205	\$1,011	\$991	\$1,007	\$2,985	\$3,109	\$3,415	\$3,444	\$3,523	\$3,645
Monthly Regional Cost:	\$74,463	\$12,132	\$11,687	\$12,083	\$35,620	\$37,363	\$40,977	\$41,328	\$42,273	\$43,737
Agency Share: 9.2%										
PT										
<b>Annual Cost</b>										

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Additional Card Procurement, Inventory, Warehousing &amp; Distribution Functions</b>	\$348	\$158	\$163	\$168	\$173	\$178	\$184	\$189	\$195	\$201
Fixed Fee	\$4,176	\$1,900	\$1,957	\$2,016	\$2,076	\$2,139	\$2,203	\$2,269	\$2,337	\$2,407
Monthly Regional Cost:	\$3,777	\$1,718	\$1,770	\$1,823	\$1,878	\$1,934	\$1,992	\$2,052	\$2,113	\$2,177
Agency Share: 9.2%										
PT										
<b>Annual Cost</b>										

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Invoicing &amp; Funds Collection</b>	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Fixed Fee										
Monthly Regional Cost:										
Agency Share: 9.2%										
PT										
<b>Annual Cost</b>										

**KCM Services - ANNUAL OPERATING COSTS:**

Fixed Fee	\$78,640
Monthly Regional Cost:	\$14,032
Agency Share: 9.2%	\$13,844
PT	\$14,097
<b>Annual Cost</b>	<b>\$37,896</b>

**TOTAL ANNUAL OPERATING COSTS:**  
(Vendor and KCM services)

Fixed Fee	\$244,062
Monthly Regional Cost:	\$260,695
Agency Share: 9.2%	\$268,207
PT	\$276,919
<b>Annual Cost</b>	<b>\$309,288</b>

**KCM Service Assumptions:**

1. Estimates for Year 1 (2005) are preliminary. Actual costs will depend greatly upon roll-out strategy, institutional account demographics, and other variables.
2. Estimates for Year 1 (2005) assume incentives are established to encourage unaffiliated customers to obtain their cards via telephone, mail or internet.
3. Estimates for Year 1 (2005) assume aggressive marketing campaign to smaller institutional programs.
4. Estimates for Year 1 (2005) assume that EDPasses are distributed to the institution rather than to the individual.
5. Estimates include costs for marketing materials (information packets, etc.) These costs are based on the preliminary concepts developed by KCM marketing staff, actual costs may differ when the regional plan is established.
6. King County's cost estimates are based upon ridership and cash conversion assumptions (including RRRFP) as identified in RFC Project Capital Cost Worksheets Assumption Worksheet No. 3. This data was used to insure that KCM estimates are consistent with other pricing estimates for the project. Actual costs will be used once they are known.
7. For the King County Card Procurement, Inventory, Warehousing and Distribution Option, there will be an increase in capital costs to include modifications required to CARM for inventory management (\$72,319).

## E-PURSE TRANSACTIONS

### Pierce Transit

#### ANNUAL QUANTITY CALCULATION

	1	2	3	4	5	6	7	8	9	10
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>PASS TRIPS</b>										
Annual Trips by Pass Holders	4,439,880	4,528,080	4,618,080	4,709,880	4,803,480	4,899,240	4,997,160	5,097,103	5,199,045	5,303,026
Monthly Trips by Pass Holders	369,990	377,340	384,840	392,490	400,290	408,270	416,430	424,759	433,254	441,919
Assumption: 15% of Pass Trips require E-purse transaction:	55,499	56,601	57,726	58,874	60,044	61,241	62,465	63,714	64,988	66,288
<b>CASH TRIPS</b>										
Annual Trips by Cash Riders	7,893,120	8,049,920	8,209,920	8,373,120	8,539,520	8,709,760	8,883,840	9,061,517	9,242,747	9,427,602
Monthly Trips by Cash Riders	657,760	670,827	684,160	697,760	711,627	725,813	740,320	755,126	770,229	785,634
Remaining Monthly Trips taken by Cash Riders:	0	164,440	215,079	261,987	305,564	346,170	384,135	419,753	453,291	484,984
Monthly Cash Trips converting to Smart Card (E-Purse): (Year 1 - 25% of Cash trips, Years 2-10 - 10% of Cash trips)	164,440	50,639	46,908	43,577	40,606	37,964	35,619	33,537	31,694	30,065
<b>TOTAL CASH TRIPS USING E-PURSE:</b> (f + h.)	164,440	215,079	261,987	305,564	346,170	384,135	419,753	453,291	484,984	515,049

TOTAL NUMBER OF E-PURSE TRANSACTIONS PER MONTH: (Pass trips + Cash trips) (c + i)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	219,939	271,680	319,713	364,438	406,214	445,375	482,218	517,004	549,372	581,337

### ASSUMPTIONS

- o Any fare transaction that requires full or partial payment with the E-purse will be considered an E-purse transaction.
- o 15% of Pass trips require E-purse transaction
- o Year 1 - 25% of Cash trips convert to Smart Card - using E-purse  
Years 2-10 - 10% of remaining Cash trips convert to Smart Card - using E-purse (annually)
- o Based on individual agency ridership projections (2005-2014) for both Cash & Pass trips.

## PASS PAYMENT TRANSACTIONS

**Pierce Transit**

**ANNUAL QUANTITY CALCULATION**

PASS TRIPS	1	2	3	4	5	6	7	8	9	10
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Annual Trip Transactions by Pass Holders:	4,439,880	4,528,080	4,618,080	4,709,880	4,803,480	4,899,240	4,997,160	5,097,103	5,199,045	5,303,026
Monthly Trip Transactions taken by Pass Holders:	369,990	377,340	384,840	392,490	400,290	408,270	416,430	424,759	433,254	441,919
Assumption: 85% of Pass Trips NOT requiring an E-purse transaction:	314,492	320,739	327,114	333,617	340,247	347,030	353,966	361,045	368,266	375,631

**TOTAL NUMBER OF PASS PAYMENT TRANSACTIONS PER MONTH:** 314,492 320,739 327,114 333,617 340,247 347,030 353,966 361,045 368,266 375,631

**ASSUMPTIONS**

- o 85% of Smart Card Pass trips do not require any E-purse transaction.
- o Pass Payment Transactions are only those transactions not requiring any E-purse activity. (85% of Pass Riders)
- o Based on individual agency ridership projections (2005-2014) for Pass trips.

## REVALUE TRANSACTIONS

### Pierce Transit

#### QUANTITY CALCULATION

Annual Number of Pass Holders using Smart Card:  
 Assumption: Number of Pass Holders who revalue once a month:  
 Number of revalue transactions per month for pass holders:

	1	2	3	4	5	6	7	8	9	10
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	377,617	385,406	389,399	393,207	405,625	417,810	429,244	435,593	439,890	444,588
	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	75,523	77,081	77,880	78,641	81,125	83,562	85,849	87,119	87,978	88,916

Number of Cash Riders using Smart Card (E-purse):  
 Assumption: Number of times/month card is revalued:  
 Number of revalue transactions per month for pass holders:

	3	3	3	3	3	3	3	3	3	3
	29,826	39,016	47,422	55,119	62,413	69,340	75,917	82,039	87,687	92,949
	89,479	117,048	142,266	165,356	187,240	208,021	227,750	246,116	263,090	278,846

#### TOTAL NUMBER OF REVALUE TRANSACTIONS PER MONTH

	165,002	194,129	220,146	243,997	266,365	291,563	313,599	333,235	351,068	367,763
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Number of revalue transactions/month through 3rd party retailers:  
 (15% of total revalue transactions)  
 Number of revalue transactions/month NOI through 3rd party retailers:  
 (85% of total revalue transactions)

	24,750	29,119	33,022	36,600	40,255	43,737	47,040	49,985	52,660	55,165
	140,252	165,009	187,124	207,397	228,110	247,846	266,559	283,250	298,408	312,599

Pierce Transit (Agency % share)

	9.2%	9.2%	9.2%	9.2%	9.2%	9.2%	9.2%	9.2%	9.2%	9.2%
	2,281	2,683	3,043	3,373	3,709	4,030	4,335	4,606	4,852	5,083
	12,924	15,205	17,243	19,111	21,019	22,838	24,562	26,100	27,497	28,805

#### ASSUMPTIONS

- o 20% of Pass Holders using Smart Card would revalue once a month. This includes:
  - Individual pass holders
  - Employees with subsidized passes using electronic coupons
  - Administrative changes to subsidized passes
- o Cash riders using Smart Card (E-purse) would revalue 3 times a month assuming:
  - Reload discount @ \$20
  - Primarily infrequent riders, some requiring E-purse upgrades
- o Annual number of customers holding smart cards based assumptions defined on "Number of Fare Cards" worksheet over the 10-year contract.
- o Only revalue transactions conducted through 3rd party retailers are charged against the Revalue Transaction Fees. All other revalue transactions are charged against the Pass Payment/ E-purse Transaction Fees.