

SUBJECT: Approval of Utility Relocation Agreement with Alaska Department of Transportation and Public Facilities for Palmer/Wasilla Highway Extension

REQUESTED BY: Public Works

PREPARED BY: Public Works

DATE: June 4, 2001

FOR AGENDA OF: June 11, 2001

SUMMARY: City water and sewer utilities will be impacted by the Palmer/Wasilla Highway Extension. In addition, Public Works has designed water and sewer extensions as part of the ADOT project to avoid future excavations under the new highway. The utility relocation agreement is necessary before ADOT can proceed with the project.

DISCUSSION: Attached is a copy of the utility relocation agreement, Agreement No. 1-52921-00-67 [ADOT Project No. 52921/CM-MGL-0537(4)]. This agreement details how the utility work will be completed along with the estimated cost to the City.

FISCAL IMPACT: No X Yes, amount requested: \$664,739 (FY02)
Funds: 32-55-691-865-26 Palmer/Wasilla Glenwood Main Ext.

RECOMMENDED ACTION: Council is requested to approve the utility relocation agreement with the Alaska Department of Transportation and Public Facilities for the Palmer/Wasilla Highway Extension.



Reviewed by: SARAH PALIN, Mayor

Presented to council on 6/11/01
Action taken: Approved Denied
other: _____
Verified by [Signature]

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

UTILITY AGREEMENT

(WORK BY STATE OR UTILITY)

Region: **CENTRAL**

Agreement No.: **1-52921-00-67**

Project No.: **52921/CM-MGL-0537(4)**

RSA No.: **54911**

Utility Work Order No.: **COW-1**

This Agreement made and entered into this ____ day of _____ 20____, by and between the State of Alaska, acting by and through the Department of Transportation and Public Facilities, hereinafter called the DEPARTMENT, and **CITY OF WASILLA** hereinafter called the COMPANY.

WITNESSETH:

WHEREAS, the DEPARTMENT, in the interest of public safety and convenience proposes to construct, reconstruct or otherwise improve a portion of the DEPARTMENT facility known as **Palmer/Wasilla Extension** from the **Parks Highway to Knik-Goose Bay Road** which shall require the adjustment, relocation or removal of the COMPANY's facilities along, over, under or within said DEPARTMENT facility such adjustment relocation or removal work to hereinafter be described as "relocation work", and

WHEREAS, the DEPARTMENT, under the provisions of AS 19.25.020(c), is authorized to reimburse the COMPANY for the costs of said relocation work, and

WHEREAS, the DEPARTMENT and the COMPANY have reviewed the plans for said highway improvements and are in mutual agreement as to the scope of the relocation work to be performed, as described in the attached "Certificate of Finding", marked "Exhibit B";

NOW THEREFORE, in consideration of the mutual undertaking as herein recited, the DEPARTMENT and the COMPANY do hereby agree as follows:

SECTION I. RELOCATION WORK TO BE ACCOMPLISHED

A. The COMPANY and DEPARTMENT hereby agree to the relocation of the required facilities in accordance with the provisions set forth in the United States Code of Federal Regulations 23 CFR, Part 645, Subpart A Utility Relocations, Adjustments and Reimbursement, dated April 1, 1992, and any supplements and revisions thereto, which by reference are made a part thereof, and hereinafter called 23 CFR Part 645.

B. The plans and specifications of the relocation work to be performed, attached hereto as "Exhibit C" and "Exhibit D", and by reference made a part of this Agreement, are to be included in and made a part of any DEPARTMENT or COMPANY administered contract for accomplishing any part or all of said relocation work.

C. The betterments and/or additions for the COMPANY as specified in this Agreement and are part of the DEPARTMENT's contract will be accomplished in accordance with REIMBURSABLE SERVICE AGREEMENT (RSA) No. **54911**, attached hereto and by reference made a part of this agreement.

SECTION II. METHODS OF RELOCATION

It is in the best interest of the DEPARTMENT and the COMPANY for the said relocation work to be accomplished by the method(s) described and checked hereinafter:

- X (1) By force account with the COMPANY's regular construction or maintenance forces.
- X (2) By an approved and qualified contractor paid under a contract let by the COMPANY.
- X (3) By a contract let by the DEPARTMENT either as a utility contract or as an item in the general highway contract.

SECTION III. COMPANY LIABILITY

A. The COMPANY shall indemnify, defend and save harmless and exonerate the DEPARTMENT from liability resulting from injuries or damages sustained by any person or persons or property as a direct result of an act of commission or omission of the COMPANY in the performance of the relocation work undertaken by the COMPANY and not caused or contributed to in any way by the DEPARTMENT.

B. The COMPANY shall assume all legal liability as determined in a court of competent jurisdiction which is related in any way to the presence, operation, or maintenance of said relocation facilities.

C. The COMPANY shall assume all direct and out-of-pocket costs incurred by the DEPARTMENT caused as a direct result of a failure of the COMPANY to perform the relocation work within the time required by this Utility Agreement unless due to causes beyond the control of the COMPANY.

SECTION IV. UTILITY CONSTRUCTION PHASE

A. The COMPANY will give the DEPARTMENT's Regional Utilities Engineer prior notice before commencing with the relocation work.

B. The relocation work will be performed in a workmanlike manner and in compliance with the provisions of the Utility Permit, this Agreement and applicable Federal, State and Local Statutes, Codes, and Regulations.

C. Both parties will allow duly authorized inspectors free access to all stages of the work and all disputes arising from such inspection will be settled by the Commissioner, or his delegated representative.

D. During the performance of the work being performed under the DEPARTMENT's general contract, the COMPANY or its authorized representative will make all construction orders or changes to the construction through the DEPARTMENT's Project Engineer. Any negotiated changes to the contract between the COMPANY and the Contractor will be made through the DEPARTMENT's Project Engineer.

E. All relocation work by the COMPANY will be completed on or before , 20 or within * days by the above indicated METHOD OF RELOCATION, in accordance with the plans and specifications included in "Exhibit C" and "Exhibit D" subject to the following conditions beyond the control of the COMPANY which may adversely affect this date/time: * In conjunction with the Departments Contractor's schedule as coordinated through the Department's Special Provisions attached Exhibit "D"

SECTION V. COSTS BY COMPANY

A. The COMPANY will develop the relocation and/or engineering and inspection costs by the method described and checked hereafter:

- either _____ (1) Actual and related indirect costs accumulated in accordance with a work order accounting procedure prescribed by the applicable Federal or State regulatory body.
- or X (2) Actual and related indirect costs accumulated in accordance with an accounting procedure established by the COMPANY and approved by the DEPARTMENT.

B. The DEPARTMENT will receive fair and adequate credit for any salvage value, including scrap, which will accrue to the COMPANY as a result of said relocation work.

C. The costs of any betterments to the facilities being relocated not required to accommodate the DEPARTMENT's project construction and made at the election of the COMPANY will be borne by the COMPANY.

- (1) When the betterment is accomplished under the DEPARTMENT's general contract, the COMPANY will reimburse the DEPARTMENT in accordance with RSA No. 54725 attached hereto and made a part of this Agreement.

D. Records of all reimbursable costs for labor services, materials and equipment incurred by the COMPANY will be available to the DEPARTMENT by the COMPANY, with separate records as to the costs of contract bid items and force account items. On Federal-aid projects, these records shall be in conformance with the requirements of 23 CFR Part 645A, Relocations, Adjustments, and Reimbursement, and will be available for inspection by the appropriate Federal agency.

E. Records of all reimbursable costs for labor, materials, and equipment shall be retained for three years after the receipt of final payment in accordance with 23 CFR Part 17.5(c)(2), Recordkeeping and Retention Requirements for Federal-aid Highways, Records of State Highway Agencies.

SECTION VI. REIMBURSEMENT

The DEPARTMENT will reimburse the COMPANY upon the presentation of certified bills prepared in accordance with the requirements of 23 CFR 645 and the provisions of this Agreement. As shown in the attached Estimate, "Exhibit A", the estimated amount of reimbursement, after deduction for any credit due the DEPARTMENT, is **\$22,226**.

SECTION VII. BILLINGS BY COMPANY

Billings and payments will be made as follows:

A. Partial Billings.

1. At the request of the COMPANY, the DEPARTMENT will accept Partial Billings. Such billings will show backup, including the Project, Agreement, and COMPANY assigned Work Order numbers, the Termini, and the dates covering the period that the billed work was performed.

2. Each Billing will contain a recapitulation showing the total cost to date, and the amount of previous billings.

B. Final Billings.

1. The COMPANY, upon completion of all its relocation work and/or upon notification by the DEPARTMENT that all relocation or improvement work performed by the DEPARTMENT is completed, will submit its Final Billing with appropriate backup as soon as practical and not later than 120 days.

2. The Final Billings shall show backup as required, including the Project, Agreement, and Utility Work Order numbers, the Termini, the dates on which the first and last billed item of expense occurred, and the location where the accounts and records may be audited.

C. Certification

All billings shall contain a statement prepared on the COMPANY'S letterhead as follows:

"The Utility hereby certifies that the attached Billing No. _____ (Partial or Final) is a true and just statement of costs incurred by our Company in adjusting or relocating our facilities on the above referenced project during the period from _____ to _____, and that payment has not been received.

CERTIFIED AS BEING CORRECT:

BY: _____

TITLE: _____

DATE: _____, 20__"

D. Payment

1. Payment of billings properly prepared, submitted, and approved for payment will be made within 45 days.

2. Billings are subject to a retainage for disputed amounts until resolved.

3. The DEPARTMENT reserves the right to perform an audit.

Reimbursable Services Agreement (RSA) No.: 54911

(WORK BY STATE FOR COMPANY)

WITNESSETH:

WHEREAS, the COMPANY has requested that the DEPARTMENT incorporate into its facility design and specifications Installation of sewer conduit, water conduit, fire hydrants and sewer, & water services, and

WHEREAS, the benefits to the COMPANY will impose additional construction and incidental costs upon the DEPARTMENT, and

WHEREAS, it is the intention of both parties that the additional costs of the construction and all incidental items as shown on "Exhibit A" to the benefit of the COMPANY, shall be borne by the COMPANY, and

WHEREAS, the DEPARTMENT and the COMPANY have reviewed the plans for said improvements for the COMPANY and are mutual agreement as to the scope of work to be performed, as described in the attached "Certificate of Finding", marked "Exhibit B".

NOW THEREFORE, in consideration of the mutual undertaking, promises, covenants, and considerations by and between the parties contained herein, do hereby agree as follows:

A. The DEPARTMENT will incorporate as part of the design plans and specifications the adjustments, relocation, removal, betterments and/or additions as requested by the COMPANY in the final design of the DEPARTMENT's project as shown in "Exhibit C".

B. The COMPANY will participate in the costs of the construction and incidental items as outlined in "Exhibit A". The COMPANY's cost will be billed using the successful bidder's Unit Prices established in the project contract.

C. The COMPANY will participate in the DEPARTMENT's preliminary engineering (PE) and contract administration (CE) costs relative to the REIMBURSABLE SERVICE AGREEMENT (RSA) work outlined herein to incorporate the COMPANY's requested betterments and/or additions into the DEPARTMENT's contract by one of the following methods:

- _____ (1) Actual DEPARTMENT labor costs with additives.
- X (2) A fixed percentage rate of 1% for (PE).
 11% for (CE).
- _____ (3) A lump sum amount of \$ _____ for (PE).
\$ _____ for (CE).

The total estimated amount of the COMPANY's cost participation for the construction and incidentals as outlined herein is \$664,739.

D. The COMPANY will reimburse the DEPARTMENT within sixty (60) days after receipt of a billing from the DEPARTMENT for that portion of the system construction and incidentals covered under this agreement. Such billing will include the Project, Agreement, and Utility Work Order numbers, the Termini and the cost breakdown as outlined in "Exhibit A". Each billing will contain a recapitulation showing the total cost to date, and the amount of previous billings. Partial billings may be submitted to the COMPANY for the work as completed.

E. The administration of the construction of the facilities shall be the prerogative and responsibility of the DEPARTMENT. The COMPANY, or its authorized representative, may inspect and obtain appropriate field data to insure proper compliance with COMPANY requirements during construction of the facilities, and secure data for further reference.

F. During the performance of the work, the COMPANY or its authorized representative will make all construction orders or changes to the contract through the DEPARTMENT's Project Engineer. Any negotiated changes to the contract between the COMPANY and the Contractor will be made through the DEPARTMENT's Project Engineer.

G. The COMPANY is allowed to relocate/locate its facilities upon the highway right-of-way, subject to the terms of the required permit and applicable Federal, State and Local statutes, codes and regulations. The COMPANY shall assume all liability related in way any to the presence, operation and/or maintenance of said facilities.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the date and year first above mentioned.

CONTRACT REVIEW:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

By: Michael P. Stewart

Title: Engineering Associate

Date: MAY 2, 2001

UTILITY COMPANY ACCEPTANCE:

CITY OF WASILLA
(Name of COMPANY)

By: [Signature]

Title: Public Works Director

Date: 5/16/01

RECOMMENDED FOR APPROVAL:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

By: William R. Staller

Title: Utilities Engineer

Date: MAY 3, 2001

NOTICE TO PROCEED:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

By: _____

Title: Preconstruction Engineer

Date: _____

EXHIBIT "A"
SUMMARY OF ESTIMATE FOR ADJUSTMENT OF FACILITIES REQUIRED BY HIGHWAY CONSTRUCTION

The CITY of WASILLA estimate of work and materials required in connection with that portion of the Primary system of highways designated as Project No.: 52921/STP-044(1), Project Name: PALMERWASILLA EXTENSION

Utility Work Order No.: Reim. Water-R5348, Reim. Sewer-R3666 & Non-Reim. Water-WBC4110, Agreement No.: 1-52921-00-67, RSA No.: 54911

	FEDERAL PARTICIPATION	STATE PARTICIPATION	UTILITY COST NON-REIMBURS.	TOTALS
PART I. UTILITY WORK				
57259-RIGHT OF WAY (Acquisition Only)	15,570	-	42,477	58,047
Preliminary Engineering	-	-	-	-
Preliminary Engineering Overhead	-	-	-	-
57286-TOTAL PRELIMINARY ENGINEERING	15,570	-	42,477	58,047
Construction Engineering	4,992	-	27,744	32,736
Construction Engineering Overhead	-	-	-	-
57325- TOTAL CONSTRUCTION ENGINEERING	4,992	-	27,744	32,736
Construction Labor	1,664	-	8,248	9,912
Materials & Supplies	-	-	-	-
Materials Handling Charges	-	-	-	-
Transportation & Equipment	-	-	-	-
Contract Construction	-	-	-	-
Miscellaneous Expenses	-	-	-	-
Construction Subtotal	1,664	-	8,248	9,912
Construction Overhead	-	-	-	-
GROSS CONSTRUCTION COSTS	1,664	-	8,248	9,912
(Credits)	-	-	-	-
Salvage & Scrap	-	-	-	-
Betterments	-	-	-	-
TOTAL CREDITS	-	-	-	-
57324-NET CONSTRUCTION COSTS	1,664	-	8,248	9,912
TOTAL UTILITY WORK	22,226	-	78,469	100,695
PART II. STATE WORK FOR UTILITY				
Preliminary Engineering @ 1%	1,185	-	5,935	7,120
Contract Construction	118,514	-	593,517	712,031
Construction Engineering @ 11%	13,037	-	65,287	78,323
TOTAL STATE WORK FOR UTILITY	132,736	-	664,739	797,474
TOTAL ESTIMATED RELOCATION COSTS (Parts I & II)	154,961	-	743,208	898,169

UTILITY CONCURRENCE, BY: [Signature] SUBMITTED BY: [Signature]
DATE: 5/16/01 TITLE: ENGINEER ASSOCIATE

EXHIBIT "A"
BILLING FORMAT

The reimbursement to City of Wasilla by the Department will be based on actual costs plus the applicable overheads for the year that the costs were incurred. Any overhead rates to be applied will be those established by ADOT/PF internal annual systems audit.

All billings shall include proper supporting documentation, which shall include, but not limited to the following; journal entry reports or timesheets, invoices for contract services, material issue/return tickets and/or receipts or invoices for miscellaneous expenses.

During construction the Utility will be required on either a daily or weekly basis to supply the Department's utility inspector with a project report listing employee's names, hours worked, applicable equipment, and materials installed.

Design and inspection costs associated with The City of Wasilla Work Order Number COW-1 including the initial and final inspection costs, are reimbursable based on the terms of this Agreement. Any system deficiency found in the initial inspection will be corrected by AWWU and the costs will not be billed to the Department.

During the construction of this project, the Department's contractor will be performing all of The City of Wasilla's work. This work includes reimbursable and non-reimbursable costs.

NON-REIMBURSABLE/REIMBURSABLE COMPUTATION

A non-reimbursable/reimbursable percentage was computed by comparing the total Department contractor costs to the utility non-reimbursable/reimbursable contractor costs.

NON-REIMBURSABLE PERCENTAGE CALCULATION

Non-Reimbursable Contract Construction Cost = \$478,558.70

Total Contract Construction Cost = \$574,117.70

$478,558.70 / 574,117.70 \times 100 = 83.36\%$

REIMBURSABLE PERCENTAGE CALCULATION

Reimbursable Contract Construction Cost = \$95,559.00

Total Contract Construction Cost = \$574,117.70

$95,559.00/574,117.70 \times 100 = 16.64\%$

Upon receipt of the approved contract bid units the percentage will be re-computed reflecting the actual bid units times the estimated quantities.

The reimbursable and non-reimbursable percentages will be applied to both the City of Wasilla and Raven Engineering P.E. design costs and the C.E. inspection costs.

City of Wasilla will reimburse to the Department all costs incurred under RSA 54911 as outlined below:

- A. RSA billing amount will be based on actual unit bid prices of the appropriate contract items and to quantities installed for those items, ref. Page 8 of 11 Exhibit "A".
- B. City of Wasilla will reimburse the Department for a percentage of items 640(1), 641(), 642(), 643(), 644() and 646() (See pages 7 and 8 of 11, Exhibit "A").
- C. The Department's P.E. cost for City of Wasilla work will be applied at 1% of the actual utility bid items and will be a fixed lump sum amount.
- D. The final RSA billing will be based on the actual utility costs and the total actual contract costs. These costs will be used to recompute the percentage of the shared items for the final billing.

EXHIBIT "A"

COST SUMMARY OF ATTACHED ESTIMATE
REIMBURSABLE RELOCATION COSTS
WATER/SEWER

57282 PRELIMINARY ENGINEERING

Preliminary Engineering		
Contract labor		
Raven Engineering		
Conflict Analysis	\$7,000 x 100%	\$ 7,000.00
Project Design	\$50,000 x 16.64%	\$ 8,320.00
Utility Management Services		
	\$ 1,500 x 16.64%	\$ 249.60
Preliminary Engineering Overhead		\$ <u>0.00</u>
TOTAL PRELIMINARY ENGINEERING		\$ <u>15,569.60</u>

57324 CONSTRUCTION ENGINEERING

Construction Engineering Labor		
Contract labor- Raven Engineering		
Project Inspection		
	\$30,000 x 16.64%	\$ 4,992.00
Construction Engineering Overhead		\$ <u>0.00</u>
TOTAL CONSTRUCTION ENGINEERING		\$ <u>4,992.00</u>

57325 CONSTRUCTION COSTS

Construction Labor		
10,000 x 16.64%	\$	1,664.00
Materials & Supplies	\$	0.00
Materials & Handling Charges	\$	0.00
Contract Construction	\$	0.00
Construction Overhead	\$	0.00
GROSS TOTAL UTILITY CONSTRUCTION COSTS	\$	1,664.00
Less Credits		0
NET TOTAL UTILITY CONSTRUCTION COSTS	\$	<u>1,664.00</u>
TOTAL EST'ED REIMBURSABLE RELOCATION COSTS	\$	<u>22,225.60</u>

EXHIBIT "A"

**COST SUMMARY OF ATTACHED ESTIMATE
NON-REIMBURSABLE RELOCATION COSTS
WATER/SEWER**

57282 PRELIMINARY ENGINEERING

Preliminary Engineering		
Contract labor		
Raven Engineering		
Project Design \$50,000 x 83.36%	\$41,680.00	
Utility Management Services		
\$ 1,500 x 83.36%	\$ 1,250.40	
Preliminary Engineering Overhead	\$ 0.00	
TOTAL PRELIMINARY ENGINEERING		\$ 42,930.40

57324 CONSTRUCTION ENGINEERING

Construction Engineering Labor		
Contract labor		
Raven Engineering		
Project Inspection		
\$30,000 x 83.36%	\$25,008.00	
Construction Engineering Overhead	\$ 0.00	
TOTAL CONSTRUCTION ENGINEERING		\$ 25,008.00

57325 CONSTRUCTION COSTS

Construction Labor		
10,000 x 83.36%	\$ 8,336.00	
Materials & Supplies	\$ 0.00	
Materials & Handling Charges	\$ 0.00	
Contract Construction	\$ 0.00	
Construction Overhead	\$ 0.00	
GROSS TOTAL UTILITY CONSTRUCTION COSTS		\$ 8,336.00
Less Credits		0
NET TOTAL UTILITY CONSTRUCTION COSTS		\$ 8,336.00
TOTAL EST'ED NON-REIMBURSABLE RELOCATION COSTS		\$ 76,274.40

PROJECT NO. 52921/STP-044-1(1)
 PALMER/WASILLA EXTENSION
 ESTIMATE OF STATE WORK FOR THE UTILITY
 CITY OF WASILLA CONTRACT ITEMS

ITEM NO.	PAY ITEM	PAY UNIT	UNIT PRICE	TOTAL QTY.	STATE QTY.	STATE SHARE	CITY of WASILLA QTY.	CITY of WASILLA SHARE	TOTAL COST	
202(13)	Removal of Manhole, Sanitary Sewer	each	2,179	1	1	2,179.00	-	-	2,179.00	
202(14)	Removal of Sanitary Sewer Vault Top Section	each	2,645	1	1	-	1	2,645.00	2,645.00	
604(2)	Sanitary Sewer Manhole	each	6,699	1	1	6,699.00	-	-	6,699.00	
604(8)	Reconstruct Existing Manhole, Sanitary Sewer	each	1,850	2	2	3,700.00	-	-	3,700.00	
604(4)	Adjust Existing Manhole	each	500	1	1	500.00	-	-	500.00	
604(10)	Sanitary Sewer Vault Top Section	each	7,652	1	1	-	1	7,652.00	7,652.00	
604(11)	Sanitary Sewer Vault Electrical Improvements	L.S.	7,500	ALL REQ'D	ALL REQ'D	-	ALL REQ'D	7,500.00	7,500.00	
626(1-200)	Sanitary Sewer, 200 mm Ductile Iron Class 50	meter	273	191	191	-	191	52,143.00	52,143.00	
626(1-250)	Sanitary Sewer, 250 mm Ductile Iron Class 50	meter	339	53	53	-	53	17,967.00	17,967.00	
626(1-50)	Sanitary Sewer, 50 mm HDPE SDR11	meter	175	3	3	542.50	-	-	542.50	
626(1-75)	Sanitary Sewer, 75 mm HDPE SDR11	meter	134	28	28	-	28	3,698.40	3,698.40	
627(1-200)	200 mm Ductile Iron Water Conduit, C1 52	meter	305	216	47	14,243.50	169	51,636.50	65,880.00	
627(1-300)	300 mm Ductile Iron Water Conduit, C1 52	meter	380	697	51	19,532.00	645	245,138.00	264,670.00	
627(4)	Fire Hydrant Adjustment	each	1,265	1	1	1,265.00	-	-	1,265.00	
627(5)	Fire Hydrant Installation	each	3,500	3	2	7,000.00	1	3,500.00	10,500.00	
627(7)	Fire Hydrant Removal	each	1,770	3	3	5,310.00	-	-	5,310.00	
627(9-200)	Install 200 mm Gate Valve	each	1,820	8	5	9,100.00	3	5,460.00	14,560.00	
627(9-300)	Install 300 mm Gate Valve	each	2,130	4	2	4,260.00	2	4,260.00	8,520.00	
627(10)	Adjustment of Valve Box	each	234	8	8	1,872.00	-	-	1,872.00	
627(11)	Water Main Casing, 762 mm Steel, 11.9 mm Wall	meter	1,608	37	37	-	37	59,496.00	59,496.00	
627(12)	Install Water Main Hot Tap, 200 or 300 mm DIP Main, 150, 200 or 300 mm Branch	each	2,465	4	1	2,465.00	3	7,395.00	9,860.00	
627(13)	Temporary Potable Water Supply	L.S.	10,000	ALL REQ'D	ALL REQ'D	10,000	-	-	10,000.00	
627(16)	Water/Sanitary Sewer Asbuilts	L.S.	10,000	ALL REQ'D	17.25%	1,725.00	82.75%	8,275.00	10,000.00	
635(2)	Insulation Board	sq. m	18	386	287	5,166.00	100	1,792.80	6,958.80	
Subtotal										
					95,559.00	478,558.70				574,117.70
Shared Items 640(), 641(), 642(), 643(),					22,955.03	114,958.60				137,913.63
TOTAL ESTIMATED CONSTRUCTION COSTS										
Preliminary Engineering @ 1%					118,514.03	593,517.30				712,031.33
Construction Engineering @ 11%					1,185.14	5,935.17				7,120.31
					13,036.54	65,286.90				78,323.45
TOTAL ESTIMATED COSTS										
					132,735.71	664,739.38				797,475.09

**SHARED CONSTRUCTION UNITS
PALMER/WASILLA EXTENSION
CITY of WASILLA**

BASIC DOT/PF CONTRACT ESTIMATE

6,942,486.99

SHARED CONSTRUCTION UNITS

ITEM	DESCRIPTION	UNIT	UNIT		AMOUNT
			PRICE	QUANTITY	
640 (1)	Mobilization & Demobilization	L.S.	750,000	All Req'd	750,000
641 (1)	Erosion & Pollution Control A	L.S.	5,000	All Req'd	5,000
641 (2)	Erosion & Pollution Control	C.S.	10,000	All Req'd	10,000
641 (3)	Silt Fence	METER	3	231	693
641 (6)	Erosion & Pollution Price Adj	C.S.	0	All Req'd	0
642 (1)	Construction Surveying	L.S.	80,000	All Req'd	80,000
642 (3)	Three Person Survey Party	Hour	165	100	16,500
643 (2)	Traffic Maintenance	C.D.	100,000	All Req'd	100,000
643 (3)	Permanent Construction Signs	L.S.	25,000	All Req'd	25,000
643(15)	Flagging	C.S.	100,000	All Req'd	100,000
643(23)	Traffic Price Adjustment	C.S.	0	All Req'd	0
643(25)	Traffic Control Devices	C.S.	200,000	All Req'd	200,000
643(29)	Newspaper Advertisements	C.S.	0	All Req'd	0
644 (1)	Field Office	L.S.	10,000	All Req'd	10,000
644 (2)	Field Laboratory	L.S.	10,000	All Req'd	10,000
646(1)	CPM Scheduling	L.S.	37,500	All Req'd	37,500

SUBTOTAL

1,344,693.00

TOTAL BASIC DOT/PF CONTRACT CONSTRUCTION

(6,751,618:18 - 1,288,450.00)

5,597,793.99

**SHARED CONSTRUCTION UNITS
PALMER/WASILLA EXTENSION
CITY of WASILLA**

NON-REIMBURSABLE WATER/SEWER CONSTRUCTION ITEMS (Page 8 of 15)		478,558.70
REIMBURSABLE WATER/SEWER CONSTRUCTION ITEMS (page 8 of 15)		95,559.00
COW NON-REIMBURSABLE PERCENTAGE	(475,058.70)/(5,597,793.99)	0.085491
STATE REIMBURSABLE PERCENTAGE	(100,909.00)/(5,597,793.99)	0.017071
COW NON-REIMBURSABLE CONSTRUCTION ITEMS		
Mob., Survey, Traffic Control	(0.085491) (1,344,693)	<u>114,958.60</u>
STATE REIMBURSABLE ITEMS		
Mob., Survey, Traffic Control	(0.017071) (1,344,693)	<u>22,955.03</u>

Notes:

1. Computation based on Engineer's Estimate dated 4-3-01
2. Estimate will be revised to effect actual bid unit prices
3. Final RSA Billing shall reflect Final Contract Costs

**PROJECT NO. 52921/STP-044-1(1)
PALMER/WASILLA EXTENSION
CITY of WASILLA CONTRACT ITEMS**

ITEM 626(1-200) SANITARY SEWER, 200mm DUCTILE IRON, CL 50

Reimbursable		
Station	- Station	Length(m)
		0

Non-Reimbursable		
Station	- Station	Length(m)
"S" 42+000	42+044	44
"S" 44+000	44+045	45
"S" 45+000	45+052	52
"S" 46+000	46+050	50
		191

ITEM 626(1-250) SANITARY SEWER, 250mm DUCTILE IRON, CL 50

Reimbursable		
Station	- Station	Length(m)
		0

Non-Reimbursable		
Station	- Station	Length(m)
"S" 41+000	41+053	53
		53

ITEM 627(1-200) 200 MM DUCTILE IRON WATER CONDUIT, CL 52

Reimbursable		
Station	- Station	Length(m)
"W" 29+000	29+021.0	21
"W" 30+000	30+005.8	6
"W" 31+000	31+006.6	7
"W" 32+000	32+005.8	6
		40

Non-Reimbursable		
Station	- Station	Length(m)
"W" 29+021	29+028.3	7
"W" 21+000	21+088.3	88
"W" 22+000	22+011.0	11
"W" 23+000	23+068.2	70
		169

ITEM 627(1-300) 300 MM DUCTILE IRON WATER CONDUIT, CL 52

Reimbursable		
Station	- Station	Length(m)
"W" 28+000	28+051.0	51
		51

Non-Reimbursable		
Station	- Station	Length(m)
"W" 24+000	24+051.0	51
"W" 25+000	25+023.0	23
"W" 26+000	26+046.3	46
"W" 27+000	27+044.3	44
"W" 28+051	28+531.9	481
		645

ITEM 627(4) FIRE HYDRANT ADJUSTMENT

Reimbursable		
Station	Offset	Quantity
2+957.2	23.3 Rt.	1
		1

Non-Reimbursable		
Station	Offset	Quantity
		0

ITEM 627(5) FIRE HYDRANT INSTALLATION

Reimbursable		
Station	Offset	Quantity
"W" 29+021.4	4.0 Lt.	1
"W" 32+002.7	4.0 Lt.	1
		2

Non-Reimbursable		
Station	Offset	Quantity
28+530.5	11.2 Rt.	1
		1

ITEM 627(7) FIRE HYDRANT REMOVAL

Reimbursable		
Station	Offset	Quantity
2+870.9	69.2 Rt.	1
2+929.0	13.8 Rt.	1
3+006.5	4.5 Rt.	1
		3

Non-Reimbursable		
Station	Offset	Quantity
		0

**PROJECT NO. 52921/STP-044-1(1)
PALMER/WASILLA EXTENSION
CITY of WASILLA CONTRACT ITEMS**

ITEM 627(9-200) INSTALL 200 MM GATE VALVE

Reimbursable		
Station	Offset	Quantity
2+871.5	32.0 Lt.	1
2+960.0	7.5 Rt.	1
2+973.0	2.0 Lt.	1
3+007.0	1.0 Rt.	1
3+007.0	22.0 Rt.	1
		5

Non-Reimbursable		
Station	Offset	Quantity
0+912.0	9.0 Lt.	1
0+965.0	22.5 Rt.	1
1+007.5	11.5 Rt.	1
		3

ITEM 627(9-300) INSTALL 300 MM GATE VALVE

Reimbursable		
Station	Offset	Quantity
2+935.5	2.0 Rt.	1
3+004.5	1.0 Lt.	1
		2

Non-Reimbursable		
Station	Offset	Quantity
2+795.0	25.5 Lt.	1
2+926.0	9.5 Lt.	1
		1

ITEM 627(10) VALVE BOX ADJUSTMENT

Reimbursable		
Station	Offset	Quantity
0+902.2	9.6 Lt.	1
1+021.5	13.0 RT	1
1+022.5	9.5 Rt.	1
1+023.5	12.0 Rt.	1
2+963.0	63.0 Lt.	1
2+963.5	61.0 Lt.	1
2+964.0	58.0 Lt.	1
2+966.0 (S)	4.0 Rt.	1
		8

Non-Reimbursable		
Station	Offset	Quantity
		0

ITEM 627(11) WATER MAIN CASING, 762 MM STEEL

Reimbursable		
Station	Offset	Quantity
		0

Non-Reimbursable		
Station	Offset	Quantity
28+203.2	28+239.8	37
		37

ITEM 627(12) INSTALL WATER MAIN HOT TAP

Reimbursable		
Station	Offset	Quantity
3+006.0	1.0 Lt.	1
		1

Non-Reimbursable		
Station	Offset	Quantity
0+911.0	9.0 Lt.	37
0+964.5	21.0 Rt.	
1+007.0	23.0 Rt.	
		37

**PROJECT NO. 52921/STP-044-1(1)
PALMER/WASILLA EXTENSION
CITY of WASILLA CONTRACT ITEMS**

ITEM 202(13) REMOVAL of S.S. PRESSURE MANHOLE

Reimbursable		
Station	- Station	Length(m)
2+964	7.5 m Lt	1
		1

Non-Reimbursable		
Station	- Station	Length(m)
		0
		0

ITEM 202(14) REMOVAL OF S.S. VAULT TOP SECTION

Reimbursable		
Station	- Station	Length(m)
		0
		0

Non-Reimbursable		
Station	- Station	Length(m)
1+487	25.5 m Rt.	1
		1

ITEM 604(2) NEW SANITARY SEWER MANHOLE

Reimbursable		
Station	- Station	Length(m)
2+964	7.5 m Lt	1
		1

Non-Reimbursable		
Station	- Station	Length(m)
		0
		0

ITEM 604(8) RECONSTRUCT EXISTING MANHOLE, SANITARY SEWER

Reimbursable		
Station	- Station	Length(m)
0+904	3.0 Rt	1
1+110	1.0 Rt.	1
1+486	25.0 Rt.	1
		3

Non-Reimbursable		
Station	- Station	Length(m)
		0

ITEM 604(10) NEW SANITARY SEWER VAULT TOP SECTION

Reimbursable		
Station	- Station	Length(m)
		0

Non-Reimbursable		
Station	- Station	Length(m)
1+487	25.5 m Rt.	1
		1

ITEM 604(11) NEW SANITARY SEWER VAULT ELECTRICAL IMPROVEMENTS

Reimbursable		
Station	- Station	Length(m)
		0

Non-Reimbursable		
Station	- Station	Length(m)
1+487	25.5 m Rt.	1
		1

ITEM 626(1-50) SANITARY SEWER, 50mm HDPE, SDR 11

Reimbursable		
Station	- Station	Length(m)
"S"47+000	47+0003	3
		3

Non-Reimbursable		
Station	- Station	Length(m)
		0
		0

ITEM 626(1-75) SANITARY SEWER, 75mm HDPE, SDR 11

Reimbursable		
Station	- Station	Length(m)
		0

Non-Reimbursable		
Station	- Station	Length(m)
"S" 43+000	43+027.6	28
		28

Palmer-Wasilla Highway Extension Project

	<u>State Portion</u>	<u>City Portion</u>
City Costs Pre-Construction		
(up to September 8, 2000)		
Raven Engineering - DOT Utility Impact Evaluation	7,000	-
Raven Engineering - Design	25,000	25,000
Utility Management Services	<u>1,000</u>	<u>500</u>
Subtotal	33,000	25,500

City Costs During Construction (Projected)

Raven Engineering	15,000	15,000
Force Acct Construction Fees	<u>5,000</u>	<u>5,000</u>
Subtotal	20,000	20,000
Grand Total	53,000	45,500

EXHIBIT "B"
Certificate of Finding

PROJECT: 52921/CM-MGL-0537(4)

TERMINI: Palmer/Wasilla Extension

UTILITY TYPE: Water & Sewer

**UTILITY NAME
AND ADDRESS:** City of Wasilla
290 East Herning Avenue
Wasilla, Alaska 99654

UTILITY CONTACT: Archie Giddings
Engineer
Dept. of Public Works

**UTILITY WORK
ORDER NUMBER:** R5348-Reimbursable Water
R3666-Reimbursable Sewer
WBC4110-Non-Reimbursable Water

**UTILITY LOCATION OF
ACCOUNTS AND RECORDS:** 290 East Herning Avenue
Wasilla, Alaska 99654

UTILITY BILLINGS: Billings will be submitted on a periodic
basis

TYPE OF FACILITY: Water & Sewer facilities

ELIGIBILITY: The existing facilities are eligible for Federal participation in accordance with 23 CFR Part 645 and Alaska Statute 19.25.020.

LAND INTEREST: The existing facilities requiring relocation/adjustment are located on existing easements or permitted within the State of Alaska right-of-way. All non-reimbursable installation within the Department's right-of-way will be issued a State of Alaska Utility Permit upon completion.

NON-REIMBURSABLE: The City of Wasilla has requested the installation of future water stub-outs, fire hydrants, and a section of new water main between Stations 11+155.597 Rt. to 11+352.916 Rt.

BETTERMENT: None

SALVAGE/SCRAP: Salvageable materials such as fire hydrants and water valves retired as a result of the relocation and either returned to the City of Wasilla stock or sold as scrap shall be credited to the Department in accordance with 17 AAC 15.351(e) and (f).

SCOPE OF WORK

PART I - GENERAL:

The State of Alaska, Department of Transportation and Public Facilities, proposes improvements and extension of the Palmer/Wasilla Highway between the Parks Highway and Knik-Goose Bay Road. The project provides a widened two or three-lane section with new drainage, signing, stripping, illumination, and pathways.

The City of Wasilla owns and operates sanitary sewer and water mains and service facilities along and crossing portions of the Palmer/Wasilla Highway or the current Glenwood Avenue.

Relocation Design: The City of Wasilla through the Department's Contractor will relocate portions of the existing water and sewer facilities in the Rainier Drive/Financial Drive area of the project. The City has also designed in to the project the installation of additional 300mm main. The additional main is completely non-reimbursable.

The installation of insulation as well as the relocation, adjustment, or removal of existing main, services, fire hydrants, or manholes will be separated between reimbursable and non-reimbursable based on conflicts with the project, which will be detailed in Part II, Detailed Description.

In order to separate engineering charges incurred by the City, a reimbursable/non-reimbursable percentage has been computed.

EASEMENTS: The City has acquired easements and TCP's, which will be used to accommodate the City's design and will allow the Contractor to construct the relocated services on to private property. The Department's Right-of-way drawings are included as a part of Exhibit "C".

WEEKLY UTILITY COORDINATION MEETINGS: Utility scheduling and coordination meetings will be held weekly throughout the duration of the project. Attendance at the meetings by person(s) with scheduling authority is recommended by all utilities and contractors working on the project.

CHANGE ORDERS: Changes to the City of Wasilla relocation design, either in scope or location, must be reviewed and approved by both the Department and The City prior to implementation. This will allow for:

1. A joint determination of the most acceptable solution to accomplish the required work, and;
2. A joint determination of the level of Department and Utility participation.

Change order work initiated without State concurrence will jeopardize State participation in the change order. Change order work initiated without the City of Wasilla's concurrence will jeopardize the City's acceptance of the change.

PART II - DETAILED DESCRIPTION: Using DOT/PF Plan Sheets 1 through 60 of 60, Exhibit "C."

EXHIBIT "C," SHEETS 36, 37, AND 38 OF 60

WATER - The City of Wasilla has existing water facilities throughout portions of the project, which will require adjustment, relocation or removal.

The following valve boxes, gate valves, fire hydrants installations or fire hydrant relocations will occur within the limits of the project:

<u>Station</u>	<u>Offset</u>	<u>Facility</u>	<u>Work Req'd</u>	<u>Reim/NR</u>
0+902.2	9.6 Lt.	Valve Box	Adjust	Reim
0+912.0	9.0 Lt.	200mm Gate Valve	Install	NR
0+965.0	22.5 Rt.	200mm Gate Valve	Install	NR
1+007.5	11.5 Rt.	200mm Gate Valve	Install	NR
1+021.5	13.0 Rt.	Valve Box	Adjust	Reim
1+022.5	9.5 Rt.	Valve Box	Adjust	Reim
1+023.5	12.0 Lt.	Valve Box	Adjust	Reim
2+536.5	30.0 Lt.	Single-Pumper FH	Install	NR
2+867.0	30.5 Lt.	Single-Pumper FH	Install	Reim
2+793.5	49.5 Lt.	300mm Gate Valve	Install	NR
2+871.5	32.0 Lt.	200mm Gate Valve	Install	Reim
2+950.5	19.5 Lt.	300mm Gate Valve	Install	NR
2+871.0	70.0 Rt.	Single-Pumper FH	Remove	Reim
2+929.5	14.0 Rt.	Single-Pumper FH	Remove	Reim
2+957.5	23.5 Rt.	Single-Pumper FH	Adjust	Reim
2+960.0	7.5 Rt.	200mm Gate Valve	Install	Reim
2+963.0	63.0 Lt.	Valve Box	Adjust	Reim
2+963.5	61.0 Lt.	Valve Box	Adjust	Reim
2.964.0	58.0 Lt.	Valve Box	Adjust	Reim
2+971.5	2.0 Rt.	300mm Gate Valve	Install	Reim
2+973.0	2.5 Lt.	200mm Gate Valve	Install	Reim

3+006.0	4.5 Rt.	Single-Pumper FH	Remove	Reim
3+007.0	1.0 Rt.	200mm Gate Valve	Install	Reim
3+007.0	22.0 Rt.	200mm Gate Valve	Install	Reim
3+009.0	1.0 Lt.	300mm Gate Valve	Install	Reim
3+015.0	20.5 Rt.	Single-Pumper FH	Install	Reim

REIMBURSABLE WATER

EXHIBIT "C," SHEETS 39 OF 60

WL 4.1 - The existing 300mm waterline is in conflict with the proposed storm drain system at station 2+950.5, 1.5 Lt. and will be relocated. The relocation will include new 300 DIP waterline from Station 2+958, 2.0 Rt. to Station 3+009, 1.0 Lt. where the new line will tie back into the existing 300mm line which will remain in place.

The existing 300mm waterline from Station 2+958 continuing south and easterly down Rainier Drive will be abandoned as a part of the project.

EXHIBIT "C," SHEETS 39 OF 60

WL 4.2 - At Station 3+011.5, 1.5 Rt. a new 200mm line will be hot tapped into the existing 300mm main, with a 200mm gate valve placed and 21.5 meters of 200 DIP will be installed to the ROW where a new fire hydrant leg and hydrant will be installed to replace the existing hydrant to be removed at Station 3+007, 4.0 Rt.

The 200mm line will continue 7.0 meters beyond the ROW extending new service to the adjacent lot, this portion of work is **non-reimbursable**.

EXHIBIT "C," SHEETS 39 OF 60

WL 4.3 - At Station 2+974, 3.0 Lt. the existing 200mm waterline extending down Financial Drive to the west will be tied into with a new gate valve installed. New 200mm pipe will be extended east 5.0 meters to tie into the new 300mm main installed under the new roadway (ref 4.1).

EXHIBIT "C," SHEETS 39 OF 60

WL 4.4 - At Station 2+960, 8.0 meters Rt. the existing 200mm line to the east will be tied into and a new gate valve installed. New 200mm pipe will be extended 6.5 meters to tie into the new 300mm main installed under the new roadway (ref. 4.1).

EXHIBIT "C," SHEETS 39 OF 60

WL 4.5 - At Station 2+871.5 a new 200mm stub will be installed off the new non-reimbursable 300mm main (ref. WL. 4.1). 5.5 meters of 200mm line and a new 200mm gate valve will be installed to property with a new fire hydrant leg and hydrant installed to the south of the stub. The new facility is a replacement for an existing stub and hydrant, which will be abandoned with the main abandonment along Rainier Drive. The property owner has agreed to the relocation of the hydrant in order to abandon the section of main and avoid the required ties as part of the relocation.

NON-REIMBURSABLE WATER**EXHIBIT "C," SHEETS 39 OF 60**

WL1.1 - The City of Wasilla has elected to install new 200mm DIP water main which will provide a tie between two existing mains. The 200mm pipe will start at Station 0+912, 9.6 Lt. where the new pipe will be hot tapped into an existing 200mm main. The new main will continue east to Station 0+967.2, 9.6 Lt. where it will turn south continuing to Station 0+966, 23.75 Rt., where it will be hot tapped to an existing 300mm main. New gate valves will be installed at each end of the new installation. Currently no main exists through this section of the project therefore this work is completely non-reimbursable.

WL1.2 - The City of Wasilla has elected to install a new 200mm DIP water stub-out which will provide future water service to the adjacent private property. The 200mm pipe will start at Station 0+912, 9.6 Lt. where the new pipe will be hot tapped into an existing 300mm main. The new main will continue east to Station 0+967.2, 9.6 Lt. where it will turn south continuing to Station 0+966, 23.75 Rt., where it will be hot tapped to an existing 300mm main. New gate valves will be installed at each end of the new installation. Currently no main exists through this section of the project therefore this work is completely non-reimbursable.

EXHIBIT "C," SHEETS 39 OF 60

WL2.1 - The City of Wasilla has elected to install a new 200mm DIP water main crossing of the Palmer/Wasilla Highway at Station 1+180.0. The new 200mm pipe will start at Station 1+180.0, 20.0 Lt. and will continue south to 30.5 Rt., where it will be capped at the property line. A tee will be installed in the new line at 29.0 Rt. where a 200mm branch will continue to Station 1+200.0, 29.0 Rt. where it will be capped. This work is completely non-reimbursable.

WL2.2 - The City of Wasilla has elected to install a new 300mm DIP water main crossing of the Palmer/Wasilla Highway at Station 1+530.0. The new 300mm pipe will start at Station 1+530.0, 20.0 Lt. and will continue south to 31.5 Rt., where it will be capped. A tee will be installed in the new line at 25.75 Rt., where a 300mm branch will continue to Station 1+553.5, 25.0 Rt. where it will be capped. This work is completely non-reimbursable.

EXHIBIT "C," SHEETS 39 OF 60

WL3.1 - The City of Wasilla has elected to install a new 300mm DIP water main crossing of the Palmer/Wasilla Highway at Station 1+924.75, the new 300mm pipe will start at 20.0 Lt. and will continue south to 26.5 Rt. This work is completely non-reimbursable.

WL3.1 - The City of Wasilla has elected to install a new 300mm DIP water main crossing of the Palmer/Wasilla Highway at Station 2+356.75, the new 300mm pipe will start at 20.0 Lt. and will continue south to 24.5 Rt. This work is completely non-reimbursable.

EXHIBIT "C," SHEETS 39 OF 60

WL4.1/5.1 - The City of Wasilla has elected to extend new 300mm DIP water main from the end of the reimbursable relocation at Station 2+958.0, 2.0 Rt. back to Station 2+535.0, 20 Lt.

The new water line will be capped at Station 2+535.0 20 Lt., with a line bleeding assembly placed at 2+536.5 which will be stubbed out to property. At Station 2+540 20 Lt. the alignment will angle back to the roadway to Station 2+560, 0.0 Lt. The new line will follow the centerline to Station 2+745, where it will turn and exit the roadway embankment to Station 2+776 50.5 Lt., with another angle to Station 2+793, 53 Lt. At this location the new line will cross the ARRC right-of-way at a 90° angle with 36.5 meters of 762mm bored casing to Station 2+830, 26.5 Lt. The alignment will continue at 26.5 Lt. to Station 2+944, where the line will angle to Station 2+958, 11.5 Lt., and then on to 2+958, 2.0 Rt. where the non-reimbursable line ends.

WL5.2 - The City of Wasilla has elected to install a new 150mm DIP hydrant leg and hydrant at Station 2+536.5, 30.0 Lt.

SEWER

The City of Wasilla has existing sewer facilities throughout portions of the project, which will require adjustment, relocation, or removal.

The following valve boxes, manhole adjustments or manhole relocations will occur within the limits of the project:

<u>Station</u>	<u>Offset</u>	<u>Facility</u>	<u>Work Req'd</u>	<u>Reim/NR</u>
0+903.5	3.0 Rt.	Manhole	Reconstruct	Reim
1+109.5	2.5 Rt.	Manhole	Reconstruct	Reim
1+487.0	26.0 Rt.	SS Vault Top Section	Remove/Replace	NR
2+964.0	7.0 Lt.	Manhole	Remove/Replace	Reim
2+966.0	4.0 Rt.	Sewer Valve	Adjust	Reim

REIMBURSABLE SEWER

EXHIBIT "C," SHEETS 39 OF 60

SS4.1 - At Station 2+951.5, 65.5 Lt. an existing 50mm HDPE sewer service will be extended 3.0 meters onto property in order to get the end of the pipe outside the project improvements.

NON-REIMBURSABLE SEWER

EXHIBIT "C," SHEETS 39 OF 60

SS1.1 - The City of Wasilla has elected to install new 250mm DIP sewer main which will provide a crossing of the new Palmer/Wasilla Highway. The 250mm pipe will start at Station 1+011, 25.0 Rt. and cross to station 1+031.0, 28.0 Lt. This work is completely non-reimbursable.

SS1.2 - The City of Wasilla has elected to install new 200mm DIP sewer main which will provide a crossing of the Knik-Goose Bay Road. The 200mm pipe will start at Station 0+990.0, 42.0 Lt. and cross to Station 1+031.0, 29.0 Lt. This work is completely non-reimbursable.

SS1.3 - The City of Wasilla has elected to install a new 75mm HDPE sewer extension at Station 1+022.5 from the existing 200mm DIP sewer main parallels the centerline of the new Palmer/Wasilla Highway. The extension will start at 2.5 Rt. where it will be hot tapped to the existing main by the City and then continue south to 30.5 Rt. stopping at the property line. This work is completely non-reimbursable.

EXHIBIT "C," SHEETS 39 OF 60

SS2.1 - The City of Wasilla has elected to install new 300mm DIP sewer main which will provide a crossing of the new Palmer/Wasilla Highway at Station 1+560.0, the 300mm pipe will start at 25.5 Lt. and cross to 19.5 Rt. This work is completely non-reimbursable.

EXHIBIT "C," SHEETS 39 OF 60

SS3.1 - The City of Wasilla has elected to install new 200mm DIP sewer main which will provide a crossing of the new Palmer/Wasilla Highway at Station 1+917.75, the 200mm pipe will start at 26.0 Lt. and cross to 27.0 Rt. This work is completely non-reimbursable.

SS3.2 - The City of Wasilla has elected to install new 200mm DIP sewer main which will provide a crossing of the new Palmer/Wasilla Highway at Station 2+349.75, the 200mm pipe will start at 26.0 Lt. and cross to 24.75 Rt. This work is completely non-reimbursable.

PREPARED BY: Michael P. Jurdant DATE: May 2, 2001

CERTIFICATION: I Cecilia S. Stedler DATE: 5-3-01
for the Department of Transportation certify the findings
of facts as presented in this Exhibit and in Exhibit "A".

**STANDARD COLOR CODE LEGEND
FOR
EXHIBIT "C" CONSTRUCTION PLANS**

YELLOW

EXISTING FACILITIES TO REMAIN

RED

EXISTING FACILITIES TO BE RETIRED

GREEN

NEW FACILITIES

ORANGE

BETTERMENTS

BROWN

NON-PARTICIPATING BY STATE/F.H.W.A./F.A.A.

PURPLE

TEMPORARY FACILITIES

WHITE

NOTES AS REQUIRED

BLUE

EXISTING FACILITIES TO BE ADJUSTED