

WATER UTILITY



The primary object of the Water Utility is to provide quality water to all existing and new customers for domestic, commercial, industrial and fire protection needs within the service area certified to the Water Utility by the Alaska Public Utilities Commission.

The Capital Improvements Program, as prepared, covers the development of additional sources of water, additional storage, new mains to serve new customers, and upgrading the existing system to meet the expanding demands within the service area. No funds have been included to expand service beyond our existing boundaries or to acquire other water systems. The CIP also contemplates that the Water Utility will continue to finance source developments, transmission facilities, oversizing costs, and replacements. More emphasis is being placed on developers financing their own distribution system and turning it over to the Utility upon completion.

The major item in the capital budget for the Water Utility is for expanded sources of water supply including additional wells, treated water storages, expansion of the water treatment plant, and off-stream storage. This item accounts for \$16,765,000 over the next six years or 45% of the total capital budget. The next major item is the construction of additional transmission mains toward completion of a grid system and the upgrading of the older transmission mains to provide ample water at all portions of the service area and more particularly in the high value area (i.e. CBD) for fire protection.

Approximately 1.5 million dollars will need to be expended in the next 6 years to relocate existing facilities and to stub mains out from under the paving projects of the State, City and Borough. A telemetry system is proposed in 1977 to provide more automated controls of the various sources of water and to monitor the system.

The Water Utility presently has \$11,000,000 in authorized but unsold revenue bonds. These bonds were approved by the voters in 1974 to fund the 1975 CIP. None have been issued due to coverage problems. To finance 1975 essential construction, a short-term note of \$1,500,000 was obtained and secured by the future sale of revenue bonds. To retire the note and to provide funds for the 1976 CIP program \$9.4 million will have to be issued.

Last year the CIP developed by the Utility for 1975 totaled \$4,123 million and \$7,070 million for 1976. The actual amount in 1975 was trimmed to the bare bone and totaled \$2,100 million. The new estimate for funds required in 1976 is \$10,207 to fund the program as envisioned one year ago and those projects that were deferred due to lack of funds.

WATER UTILITY REVENUE REQUIREMENTS (in thousands of dollars)

	1976	1977	1978	<u>1979</u>	1980	1980	Total
Revenue Bonds Authorized	7,856	1,644	-0-	-0-	-0-	-0-	9,500
Revenue Bonds Not Authorized	-0-	4,488	3,375	2,765	2,085	2,867	15,580
State of Alaska	1,201	383	265	450	235	558	3,092
Operational Const. Depreciation	800	1,175	1,375	1,475	1,575	1,675	8,075
Contributions	350	350	200	150	150	150	1,350
	10,207	8,040	5,215	4,840	4,045	5,250	37,597

CITY OF ANCHORAGE

DATE			

DEPARTMENT OF <u>water utility</u> (1)

CAPITAL IMPROVEMENT PROGRAM

DESCRIPTION (3)	TOTAL		TO B	E FUNDED	∔ THOU	SANDS (5)	(6)		, ,	(9)	(10)	(11
0C30KT1 115R	PROJECT COST (4)	G/O BONDS	REVENUE	FEDERAL	STATE	DEPR.	CONTR.	19 <u>98</u>	19 <u>77</u>	19 <u>78</u>	19 <u>79</u>	19 <u>80-</u>	19 <u>81</u>
Distribution Transmission Upgrade Distr. Upgrade Trans. New Connects Meters USGS Water Study Auxiliary Power New Equipment Dist. Reservoir Wells Telemetering St. Hwy. Projects Heating Water Resource Dev. Reloc. Facilities Miscellaneous	3400 5500 1650 3750 1200 750 360 160 532 3200 2315 1120 835 75 11250 600 900		3400 4125 175 412 750 360 160 532 2400 1736 1120 835 75 8250		1375 338 800 579	1475 3000 3000 600	1200	500 2300 275 1350 200 250 60 40 142 850 300 40 400 3250 100 150	500 1200 275 800 200 250 60 40 60 330 1000 75 3000 100	600 500 275 400 200 100 60 40 200 360 20 75 75 2000 100 150	600 500 275 400 200 50 60 40 900 400 20 85	600 500 275 400 200 50 60 150 440 20 100 1000 150	600 500 275 400 200 50 60 1250 485 20 100 100 150
TOTAL (17)	37597		25230		3092	8075	1200	10207	8040	5215	4840	4045	5250
OTHER SOUR	CE OF FUNDS	(* :	COM	MENTS	`- <u>-</u> ,j								

	(1) De	partment and	Division		(2) Project	t Title		(3) Priority Number
CAPITAL PROJECT ESTIMATE	WATER U	rility engi	NEERING	α .	ISTRIBUTION	Ŋ		76-1
Estimated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New Appro- priation 1976 (6)	19 <u>77</u> (7)	Estimated R 19 <u>75</u> (8)	equirments i 1979 (9)	n Thousand 19 <u>80</u> (10)	19 <u>81</u> (11)
(12) Equip. (Moveable) (13) Land (14) Euildings (15) Other Improvements (16) Other TOTAL	3400		500	500	600	600	600	600
(17) Estimate Cost by Source of Funds Code Fund Title Revenue Bonds TOTAL	3400		500	500	600	600	600	600
(18) Gross Floor Area (21) Architectural and E (23) Estimated Start Dat	ngineering Fee	s: 9%	(2	Cost Per Sq. 22) Percent 24) Estimate	of Building	(20 Cost N/A n Date 12-31	3	Status Code PE
(25) Effect on Budget	Years Man Years	Salaries &	Wages Otl	ner Objects	Total	Cost	Reve	enues
List Programs(s) Affected	First Year Full Year							

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item provides for the design and construction of distribution mains (8" to 12") throughout the service area. Included are Improvement Districts, Water Main Extension Agreements, and Subdivision Agreements which may be financed by the City in whole or part, if the agreement covers only oversizing costs.

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CAPIT	AL PROJECT ESTIMATE	(1) Der	partment and	Division			(2) Project	Title	[(3) Priority Number
		WATER U	TILITY ENGI	NEERING		TR	ANSMISSION			76-2
		Estimated	Approp.	New Appr			Estimated R	equirments i	n Thousands	3
Estim	ated Cost by Object		Prior Years (5)	priatio 1976 (6)		19 <u>77</u> (7)	19 <u>78</u> (8)	19 <u>79</u> (9)	19 <u>80</u> (10)	1981
(13)	-	5500		2300		1200	500	500	500	500
	TOTAL									
(17)	Estimate Cost by Source of Funds									
Code	Fund Title									
	Revenue Bonds State of Alaska	4125 1375		1725 575		900 300	375 125	375 125	375 125	375 125
	TOTAL	5500		2300		1200	500	500	500	500
(18) (21) (23)		gineering Fees	5: 9	Buildir	(22	ost Per Sq. 2) Percent (1) Estimate	of Building	Cost N/A	%	tatus Code PE
(25)	Effect on Budget	Years Man Years	Salaries &	Wages	Oth	er Objects	Total	Cost	Reven	III-C
List Pr	rograms(s) Affected	First Year								, 64 A
***************************************		Full Year								

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item includes design and construction of transmission mains (12" and larger) to complete the Water Utility transmission system grid.

CADIT	AL DROJECT SCTIMATS	(1) De	(1) Department and Division				(2) Project	Title		(3) Priority Number
CAPIT	AL PROJECT ESTIMATE	WATER UT	ILITY ENGIN	EER ING		UPGR4	ADE DISTRIB	UTION		76-3
		Estimated	Approp.	New Ap			Estimated Ro	equirments i	n Thousand	is
Estim	ated Cost by Object		Prior Years (5)	priat 1976 (6)	;	19 <u>77</u> (7)	1978	19 <u>79</u> (9)	19 <u>80</u> (10)	19 <u>81</u> (11)
(12) (13) (14) (15) (16)	Equip. (Noveable) Land Buildings Other Improvements Other	1650		27.	5	275	275	275	275	275
(17)	Estimate Cost by Source of Funds Fund Title Revenue Bonds Depreciation O.C.	175 1475		17 10	- 1	275	275	275	275	275
(18) (21) (23)	Gross Floor Area Architectural and Eng Estimated Start Date	incering Fee	q. Ft. (19) s: 9% 1, 1976		(2	Percent	Ft. \$ <u>N/A</u> of Building d Completion	Cost N/A	7.	Status Code PE
(25)	Effect on Budget Y	ears Man Years	Salaries &	Wages	Oth	er Objects	Total	Cost	Reve	enues
List Pr	ograms(s) Affected Y	irst ear ull ear								

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item covers various loop-ties and distribution system upgrading to include the replacement of wood stave pipe throughout the distribution system.

CAPITAL PROJECT EST	TMATE	(1) De _r	partment and	Division			(2) Project	Title		(3) Priority Number
	21171112	WATER UT	ILITY ENGIN	EERING		UP	GRADE TRANS	SMISSION		76-4
		Estimated	Approp.	New Appr			Estimated Re	equirments i	n Thousan	ds
Estimated Cost by O	bject		Prior Years (5)	priatio 19 <u>76</u> (6)	n	19 <u>77</u> (7)	19 <u>78</u> (8)	19 <u>79</u> (9)	19 <u>80</u> (10)	19 <u>81</u> (11)
(12) Equip. (Novea (13) Land (14) Buildings (15) Other Improve (16) Other		3750		1350		800	400	400	400	400
(17) Estimate Cost Source of Func Code Fund Ti Revenue Bond State of Ala Depreciation TOTAL	ds tle is aska	412 338 3000		412 338 600		800	400 400	400 400	400	400
(18) Gross Floor A (21) Architectural (23) Estimated Sta	and Eng	N/A So	s: 9%	<u> </u>	(22)	t Per Sq. Percent (·····	(20)	Project	Status Code PE
(25) Effect on Bud	get Y	ears Man Years	Salaries &	Wages	Other	Objects	Total	Cost	Ray	enues
ist Programs(s) Affe	cted F	irst ear				¥			, NEV	cime?
		ull ear								

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item includes the design and purchase of the 42" pipe for the replacement of the 24" wood stave on Fifth Avenue from the Chrysler Center to Orca and an additional tie line from the Treatment Plant to Valve Vault #4.

^{1. 42&}quot; Transmission Main (Chrysler Center to Orca) Desing and Construction - \$700,000

^{2.} Tie from Treatment Plant to Vault #4 - 200,000

CADITAL	PROJECT ESTIMATE	(l) De	(1) Department and Division WATER UTILITY ENGINEERING				(2) Project	Title	Į.	(3) Priority Number
CA: I IAL	TROOLEST ESTIMATE	WATER UI	'ILITY ENGIN	EERING		NEW	CONNECTIONS	3		76-5
		Estimated	Approp.	New Appr			Estimated Re	quirments i	n Thousand	s
Estimate	ed Cost by Object		Prior Years (5)	priatio 1976 (6)	on	19 <u>77</u> (7)	19 <u>73</u> (8)	19 <u>79</u> (9)	19 <u>80</u> (10)	19 <u>81</u> (11)
(13) Li (14) Ei (15) Oi (16) Oi	quip. (Moveable) and uildings ther Improvements ther	1200		200		200	200	200	200	200
Code F	stimate Cost by ource of Funds Fund Title Contributions	1200		200		200	200	200	200	200
(21) Ar	ross Floor Area rchitectural and En stimated Start Date	gin ee ring Fees	n. Ft. (19) s: N/A ress	Buildir	ng Cos (22) (24)	Percent (Ft. S N/A of Building (d Completion	Cost N/A	%	itatus Code No
(25) Et	ffect on Budget	Years Man	Salaries &	Wages	Other	^ Objects	Total	Cost	Rever	ues
List Progr	rams(s) Affected	First Year Full Year								

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

⁽¹⁶⁾ This project provides a contribution in aid of construction to furnish material and labor for service connects to be made in the coming year. We are estimating making 1,000 connections of various sizes. The number cannot be estimated at this time.

CAPITAL PROJECT ESTIMATE	(1) De	partment and	Division		(2) Project	Title	(3	3) Priority Number
	WATER UT	ILITY ENGIN	EERING		METERS			76-6
	Estimated	Approp.	New Appro-		Estimated Re	equirments i	n Thousands	
Estimated Cost by Object		Prior Years (5)	priation 1976 (6)	19 <u>77</u> (7)	1975 (8)	19 <u>79</u> (9)	19 <u>80</u> (10)	1981
(12) Equip. (Moveable) (13) Land (14) Eulldings (15) Other Improvements (16) Other	750		250	250	100	50	50	50
(17) Estimate Cost by Source of Funds ode Fund Title Revenue Bonds TOTAL	750		250	250	100	50	50	50
	ineering Fees	: N/A	(2	Percent	Ft. S N/A of Building of Completion	Cost N/A	Project St	atus Code No
	Years Man Years	Salaries &		er Objects	Total	· · · · · · · · · · · · · · · · · · ·	Revenu	i A C
st Programs(s) Affected	irst Year						NEVEIII.	15.
	ull (ear							

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

Purchase of water meters to complete metering policy of all commercial, 4-plex units and larger, and industrial buildings. This is in accordance with the Tariff now on file with the Alaska Public Utilities Commission.

CAPITAL PROJECT ESTIMATE	(1) Der	partment and	Division		(2) Project	: Title	[(3) Priority Number
CAPITAL PROJECT ESTIMATE	WATER U	TILITY ENGI	NEERING		USGS			76-7
	Estimated	Approp.	New Appro-		Estimated R	equirments i	n Thousands	;
Estimated Cost by Object		Prior Years (5)	priation 1976 (6)	19 <u>77</u> (7)	19 <u>78</u> (8)	1979 (9)	19 <u>80</u> (10)	19 <u>81</u> (11)
(12) Equip. (Moveable) (13) Land (14) Buildings (15) Other Improvements (16) Other TOTAL	360		60	60	60	60	60	60
(17) Estimate Cost by Source of Funds Code Fund Title								
Revenue Bonds	360		60	60	60	60	60	60
TOTAL		:			·			
(18) Gross Floor Area 1 (21) Architectural and En (23) Estimated Start Date	gin ee ring Fees	n. Ft. (19) s: N/A	. (2	(2) Percent	Ft. \$ <u>N</u> of Building d Completion	Cost N/A	Project S % nuing	tatus Code No
(25) Effect on Budget	Years Man Years	Salaries &	Wages Otl	ner Objects	Total	Cost	Reven	ues
List Programs(s) Affected	First Year							
in the second	Full Year							

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This project is a continuation of the monitoring program that has been in progress for the past ten (10) years. The projects to be studied next year will encompass the study of both underground and surface water resources in the Ship Creek and Campbell Creek watersheds, as well as assistance in development of wells as outlined in the 1974 Water Source Study.

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CAPIT	AL PROJECT ESTIMATE	(1) De _i	partment and	Division			(2) Project	Title	(3	B) Priority Number
UMI I I	AL PRODECT ESTIMATE	WATER UI	ILITY ENGIN	EERING		AU	XILIARY PO	WER		76-8
Estim	ated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New App priati 1976 (6)	on	19 <u>77</u> (7)	Estimated Re 19 <u>75</u> (8)	19 <u>79</u> (9)	n Thousands 19 <u>80</u> (10)	1981
(12) (13) (14) (15) (16)		160		40		40	40	40	0	0
(17) Code	Estimate Cost by Source of Funds Fund Title Revenue Bonds TOTAL	160		40		40	40	40	0	O
(18) (21) (23)	Gross Floor Area Architectural and Er Estimated Start Date	igi nee ring Fee:	q. Ft. (19) s: N/A 1, 1976) Buildi		2) Percent	Ft. \$ <u>n/</u> of Building d Completion	Cost N/A) Project St	atus Code PE
(25)	Effect on Budget	Years Man Years	Salaries &	Wages	Oth	er Objects	Total	Cost	Reveni	ies
List Pr	rograms(s) Affected	First Year Full Year								

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item consists of purchasing and installing auxiliary generators for Well #2, #3, #6, and #8. Standby power assures a continuous power source for periods of power failure to insure an adequate water supply for fire protection.

	(1) Der	partment and	Division		(2) Project	Title	(3) Priority Number
CAPITAL PROJECT ESTIMATE	WATER U	TILITY ENGI	NEERING		NEW EQUIPM	ent		76-9
Estimated Cost by Object	Estimated	Approp. Prior Years (5)	New Appro- priation 1976 (6)	19 <i>77</i>	19 <u>78</u> (8)	19 <u>79</u> (9)	n Thousands 19 <u>80</u> (10)	19 <u>81</u> (11)
(12) Equip. (Noveable) (13) Land (14) Euildings (15) Other Improvements (16) Other TOTAL	532		142	60	60	60	150	60
(17) Estimate Cost by Source of Funds Code Fund Title Revenue Bonds	532		142	60	. 60	60	150	60
TOTAL								
(18) Gross Floor Area (21) Architectural and Eng (23) Estimated Start Date	gineering Fees	s: <u>N/A</u>		Cost Per Sq. (2) Percent (4) Estimate	Ft. S N/A of Building d Completion	Cost N/A	0/ /0	tatus Code 00
(25) Effect on Budget	Years Man Years	Salaries &	Wages Otl	ner Objects	Total	Cost	Rever	ues
List Programs(s) Affected	First Year Full Year							

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

Replacement and purchase of new equipment as existing equipment is worn out or new equipment is needed to upgrade existing fleet. Also included is purchase of smaller tools and equipment used by the maintenance section for a replacement and addition basis.

CADITAL DDO LECT CCTMAX-	(1) De	partment and	Division		(2) Project	t Title		Page <u>177</u> (3) Priority Number
CAPITAL PROJECT ESTIMATE	WATER UI	LILITY ENGIN	EERING	DIST	RIBUTION RE	SERVOIR		76-10
	Estimated	Approp.	New Appro- priation		Estimated R	equirments i	n Thousand	S
Estimated Cost by Object	Total Cost (4)	Prior Years (5)	1976	19 <u>77</u> (7)	19 <u>78</u> (8)	1979	1980	1981
(12) Equip. (Noveable) (13) Land (14) Eutldings (15) Other Improvements (16) Other TOTAL	3200		850		200	900	(10)	1250
(17) Estimate Cost by Source of Funds Code Fund Title Revenue Bonds	2400		637		150			
State of Alaska	800		213		150 50	675 225		938 312
TOTAL	3200		850		200	900		1250
(18) Gross Floor Area (21) Architectural and Er (23) Estimated Start Date	gineering Fee:	97		22) Percent	Ft. S N/A of Building ed Completion	Cost N/A	%	Status Code PPE
(25) Effect on Budget	Years Man Years	Salaries &	Wages Ot	her Objects	Total		Rever	34400
List Programs(s) Affected	First Year					<u> </u>	lever	WES
	Full Year							

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item covers the design and contruction of distribution reservoirs for additional storage of treated water to meet the peak distribution system demands and fire protection.

		(1) De	partment and	Division		(2) Project Title			
CAPIT	AL PROJECT ESTIMATE	WATER VI	ILITY ENGIN	EERING	PRO	DUCTION WEI	LLS		76-11
		Estimated	Approp.	New Appro-		Estimated Re	equirments i	n Thousands	5 ,
Estim	ated Cost by Object		Prior Years (5)	priation 19 <u>76</u> (6)	19 <u>77</u> (7)	19 <u>78</u> (8)	19 <u>79</u> (9)	19 <u>80</u> (10)	19 <u>81</u> (11)
(12) (13) (14) (15) (16)	Land Buildings	2315		300	300	360	400	440	485
	TOTAL								
(17) Code	Estimate Cost by Source of Funds Fund Title						·		,
	Revenue Bonds State of Alaska	1736 579		225 75	247 83	270 90	300 100	330 110	364 121
	TOTAL	2315		300	330	360	400	440	485
(18) (21) (23)		gineering Fee	s: 9%	(Cost Per Sq. (22) Percent (24) Estimate	Ft. \$ N/A of Building ed Completion	Cost N/A	, r	tatus Code PE
(25)		Years Man Years	Salaries &	Wages 0	ther Objects	Total	Cost	Rever	ues
List Pr	· · · · · · · · · · · · · · · · · ·	First Year Full Year							

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item consists of the design and construction of test wells, production wells, well houses, and transmission pipelines. The Water Source Study done by Tryck, Nyman & Hayes recommends development of production wells to supplement present water supply sources.

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(2) Project Title

CAPITAL PROJECT ESTIMATE									Number	
	WATER U	ILITY ENGIN	EERING			TELEMETERI	NG		76-12	
	Estimated Approp.		New Appro- priation		Estimated Requirments in Thousands					
Estimated Cost by Object	Total Cost (4)	Prior Years (5)	1976 (6)	É	19 <u>77</u> (7)	19 <u>78</u> (8)	19 <u>79</u> (9)	19 <u>80</u> (10)	1981	
(12) Equip, (Moveable) (13) Land (14) Buildings (15) Other Improvements (16) Other	1120		4	0	1000	20	20	20	20	
(17) Estimate Cost by Source of Funds ode Fund Title Revenue Bonds	1120		4	.0	1000	20	20	20	20	
TOTAL (10) Cores 53-2-2										
(18) Gross Floor Area(21) Architectural and Eng(23) Estimated Start Date	ineering Fee:	q. Ft. (19) s: <u>N/A</u> 1, 1976	Build	ling Cos (22) (24)	Percent	Ft. S <u>N/A</u> of Building d Completion	Cost N/A	Project St -76	atus Code PPC	
	rears Man rears	Salaries &	Wages	Other	Objects	Total	Cost	Revenu	92	
rograms(s) Affected S	irst /ear [u]] /ear								h1	

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

(1) Department and Division

This item consists of the design and installation of a monitoring system for all the wells, reservoirs, pressure reducing stations, booster stations and valve pits in the water system from the Treatment Plant.

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0.0771	(1) De	partment and	Division	(2) Project Title				3) Priority Number
CAPITAL PROJECT ESTIMATE	WATER UI	ILITY ENGIN	EERING	STATI	HIGHWAY P	ROJECTS		76-13
	Estimated	Approp.	New Appro-		Estimated Ro	equirments i	n Thousand	S
Estimated Cost by Object	1	Prior Years (5)	priation 1976 (6)	19 <u>77</u> (7)	19 <u>78</u> (8)	19 <u>79</u> (9)	19 <u>80</u> (10)	19 <u>81</u> (11)
(12) Equip. (Moveable) (13) Lend (14) Buildings (15) Other Improvements (16) Other	835		400	75	75	85	100	100
TOTAL			·					
(17) Estimate Cost by Source of Funds								
Code Fund Title	_	·			<i>*</i>			
Revenue Bonds	835		400	75	75	85	100	100
TOTAL								
(18) Gross Floor Area (21) Architectural and E (23) Estimated Start Dat	ngi nee ring Fee	s: 9%	(2	2) Percent	Ft. \$ n/A of Building d Completion	Cost N/A	%	tatus Code PE
(25) Effect on Budget	Years Man	Salaries &	Wages Oth	er Objects	Total	Cost	Rever	wes
List Programs(s) Affected	First Year	n de la companya de l						,
	Full Year				·			

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item covers the design and construction of utility relocation, adjustments, and system upgrading prior to future Department of Highways road construction.

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CAPITAL PROJECT ESTIMATE	(1) De	partment and	Division		(2) Project Title				
ON TIME INDUCT ESTIMATE	WATER UI	LITY ENGIN	KERING	н	EATING WATE	R		Number 76-14	
	Estimated	Approp.	New Appro-		Estimated Re	equirments i	n Thousand	S	
Estimated Cost by Object		Prior Years (5)	priation 1976 (6)	19 <u>77</u> (7)	19 <u>78</u> (8)	19 <u>79</u> (9)	19 <u>80</u> (10)	19 <u>81</u> (11)	
 (12) Equip. (Noveable) (13) Land (14) Buildings (15) Other Improvements (16) Other 	75				75	V31	(10)		
TOTAL									
(17) Estimate Cost by Source of Funds									
Code <u>Fund</u> <u>Title</u>									
Revenue Bonds	75				75				
TOTAL									
(18) Gross Floor Area (21) Architectural and En (23) Estimated Start Date	gineering Fees	6: N/A	(2	Percent	Ft. \$ N/A of Building ed Completion	Cost N/A	%	Status Code	
(25) Effect on Budget	Years Man Years	Salaries &	Wages Oth	er Objects	Total	Cost	Reve	NUAC	
ist Programs(s) Affected	First Year						Neve	mes	
,	Full Year								

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item provides funding to connect the Water Utility Transmission System to the head exchanger which will be financed and built by ML&P.

CAPITAL PROJECT ESTIMATE	(1) De	partment and	Division		(2) Project	t Title		(3) Priority Number	
	WATER U	TILITY ENGIN	IKER ING	RES	OURCE DEVEL	OPMENT		76-15	
	Estimated	Approp.	New Appro-		Estimated R	equirments i	n Thousand	is	
Estimated Cost by Object		Prior Years (5)	priation 1976 (6)	19 <u>77</u> (7)	1978	19 <u>79</u> (9)	1980	19 <u>81</u> (11)	
(12) Equip. (Novemble) (13) Land (14) Euildings (15) Other Improvements (16) Other TOTAL	11250		3250	3000	2000	1000	1000	1000	
(17) Estimate Cost by Source of Funds Code Fund Title Revenue Bonds Depreciation (0.C.			3250	3000	1400 600	300 700	200 800	100 900	
TOTAL	11250		3250	3000	2000	1000	1000	1000	
(18) Gross Floor Area (21) Architectural and Eng (23) Estimated Start Date	In Prop	97.	(2)	Percent	Ft. \$ N/A of Building ad Completion	Cost: N/A	%	Status Code	
	lears years	Salaries &	Wages Oth	er Objects	Total	Cost	Reve	nues	
\$2000	irst ear								
	ull /ear								

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item provides for design and construction of facilities necessary to meet the growing demand for treated water. Includes is the modification of the Diversion Dam for additional outlets and the construction of off-stream storage ponds and appurtenances.

CAPITAL PROJECT ESTIM	ATE (1) De	epartment and	Division	(2) Project Title				3) Priority Number
	i	TILITY ENGIN	IKKRING	REI	LOCATION OF	UTILITIES		76-16
	Estimated	Approp.	New Appro-		Estimated Re	quirments i	n Thousands	
Estimated Cost by Obj	Total Cost		priation 1976 (6)	19 <u>77</u>	19 <u>78</u> (8)	19 <u>79</u> (9)	1 <u>980</u> (10)	19 <u>81</u> (11)
(12) Equip. (Noveable (13) Land (14) Buildings (15) Other Improvement (16) Other			100	100	100	100	100	100
(17) Estimate Cost b Source of Funds Total Total	e		100	100	100	100	100	100
(21) Architectural a	a <u>N/A</u> Sond Engineering Fee	es: 97.	(2	Percent	Ft. \$ <u>N/A</u> of Building (ed Completion	Cost N/A	Project St	tatus Code
(25) Effect on Budge	1 16012	Salaries &	Wages Oth	er Objects	Total	Cost	Reven	291
st Programs(s) Affect	ed First Year Full Year							

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item covers the relocation and adjustment of utility appurtenances prior to City of Anchorage and Greater Anchorage Area Borough paving projects.

CAPIT	AL PROJECT ESTIMATE	(1) De	partment and	Division		(2) Project			(3) Priority Number
J		WATER U	TILITY ENGIN	KKRING	REQU	MISCELLA IREMENTS AN		RCIES	76-17
Estim	ated Cost by Object	Estimated Total Cost (4)	Approp. Prior Years (5)	New Appro- priation 1976	1977	Estimated Re			1981:
(13)		900	(3)	(6) 150	(7) 150	(8) 150	(9) 150	(10) 150	150
(17) Code	Estimate Cost by Source of Funds Fund Title Revenue Bonds TOTAL	900		150	150	150	150	150	150
(41)	Gross Floor Area Architectural and E Estimated Start Dat	noineerino rees	S: 127A	(ZZ	?) Percent	Ft. \$ m/A of Building (ed Completion	Cost w/a	%	Status Code
(25)	Effect on Budget	Years Man Years	Salaries &	Wages Othe	er Objects	Total	Coct	l none	านคร
ist Pr	ograms(s) Affected	First Year Full Year						PV-F	MES.

⁽²⁶⁾ Project Description and Justification (Continue on Additional Sheets, Same size)

This item covers emergency situations unforeseen at this time, such as rescheduled projects and the unscheduled replacement of equipment.