

# **State of Alaska FY2002 Governor's Operating Budget**

Department of Transportation/Public Facilities  
Northern Design and Engineering Services  
Component

## **Component: Northern Design and Engineering Services**

**Contact: Michael L. Downing, P.E., Director**

**Tel:** (907) 465-2960 **Fax:** (907) 465-2460 **E-mail:** Michael\_Downing@dot.state.ak.us

### **Component Mission**

The mission of Design and Engineering Services is to develop projects that improve Alaska's transportation and public facilities infrastructure. The Division also provides a wide range of technical services to the Department, other state and federal agencies, local governments and the public.

### **Component Services Provided**

A full suite of design services is provided in the regional offices: preliminary design and environmental, traffic and safety, materials, surveying, right-of-way, utilities, and design. Each project is taken from the planning stage to final preparation of plans, specifications and estimates, and technical assistance is provided during construction. Environmental compliance services are provided during construction, maintenance and operations of facilities. Design assistance, traffic speed studies, accident analysis, hydrological studies, materials testing, surveying, and the processing of utility, right-of-way and traffic permits are also provided to other state and federal agencies, local governments and the public.

### **Component Goals and Strategies**

- To develop projects in the capital budget according to the timing and at the funding levels contained in the Department's planning documents and to ensure that the division is capable of producing at least fifty percent of the design work necessary for the program. This goal is consistent with the recommendations of the Transportation Research Board's recent publication on the outsourcing of DOT&PF design services.
- Use consultants to provide specialized technical services such as photogrammetry, design of corrosion protection, hydrology, underwater inspections and environmental site assessments.
- Continue to develop positive working relationships with resource agencies that issue permits for Department projects such as the Corps of Engineers, U.S. Fish and Wildlife, the Department of Fish and Game, the Department of Environmental Conservation, the Environmental Protection Agency, and others.
- Participate in the development of the Department's planning documents so that the resulting scope, schedule and budget are consistent with good engineering practices and practical to implement.
- Develop and implement management reporting systems for projects to improve the coordination of resources, priorities, cost, scope and standards.
- Provide the following technical services: design assistance; traffic speed studies; permits; bridge inspections; materials testing; the processing of utility, right-of-way and traffic permits; preparation of environmental documents.
- Assist the public and businesses with permits for right-of-way use, utilities, lane closures, special events, driveways and signs in an efficient and service-oriented manner.

### **Key Component Issues for FY2001 – 2002**

- Section 1309 of the Transportation Equity Act for the 21st Century calls for a coordinated environmental review process to expedite federal highway and transit projects. Environmental streamlining efforts are underway nationwide. Negotiations for the state's streamlining agreements must take place to reflect Alaska's unique

conditions. The initiative has two major areas of emphasis: protecting and enhancing environmental quality and reducing project delays.

- The Division's right-of-way (ROW) activities are time consuming, expensive and often on the critical path for project delivery. This year we are continuing our efforts to streamline our ROW procedures; moving much of our property management information into a statewide database; developing on-line applications for permits; amending the regulations related to ROW and permitting and developing new ways of contracting for consultant assistance with the ROW program.
- The Department continues to support various methods to reduce pavement rutting. The Division is responsible for improved pavement designs and providing technical assistance to the legislature on bills related to studded tire wear.
- As the Division continues to increase reliance on private sector consultants, services previously provided by just Division staff must be looked at for possible private sector contracting. The negotiation and acquisition of land under eminent domain, utility relocation agreements, deep foundations drilling are examples of services that need to be contracted with a careful and cautious approach.

### **Major Component Accomplishments for FY2000**

- The Division delivered a comprehensive program of bid ready designs and contract documents for projects across the state. The Division's performance placed the Department in a position to receive an additional \$1.5 million in Federal Highway Administration funding. The additional funds were available because other states were not as well prepared and were unable to obligate their full allocation of federal-aid.

### **Statutory and Regulatory Authority**

AS 02.15, AS 08.48, AS 08.87, AS 19, AS 34.60, AS 35, AS 36, AS 44.42, AS 44.62, 17 AAC 15, CFR 14 Aeronautics, CFR 15 Environment, CFR 16 Environment, CFR 23 Highways, CFR 33 Environment, CFR 41 Contracts, CFR 42 Environment/ADA, CFR 43 Lands, CFR 49 Transportation.

## Northern Design and Engineering Services

## Component Financial Summary

All dollars in thousands

	FY2000 Actuals	FY2001 Authorized	FY2002 Governor
<b>Non-Formula Program:</b>			
<b>Component Expenditures:</b>			
71000 Personal Services	7,206.2	9,079.6	9,386.0
72000 Travel	11.5	10.9	31.4
73000 Contractual	144.7	126.2	173.6
74000 Supplies	58.7	132.4	148.2
75000 Equipment	27.6	0.0	0.0
76000 Land/Buildings	0.0	0.0	0.0
77000 Grants, Claims	0.0	0.0	0.0
78000 Miscellaneous	0.0	0.0	0.0
<b>Expenditure Totals</b>	<b>7,448.7</b>	<b>9,349.1</b>	<b>9,739.2</b>
<b>Funding Sources:</b>			
1004 General Fund Receipts	156.5	141.7	144.6
1005 General Fund/Program Receipts	79.3	120.1	121.2
1007 Inter-Agency Receipts	161.3	81.2	84.2
1053 Investment Loss Trust Fund	0.0	4.1	0.0
1061 Capital Improvement Project Receipts	6,990.9	8,916.2	9,303.0
1108 Statutory Designated Program Receipts	60.7	85.8	86.2
<b>Funding Totals</b>	<b>7,448.7</b>	<b>9,349.1</b>	<b>9,739.2</b>

## Estimated Revenue Collections

Description	Master Revenue Account	FY2000 Actuals	FY2001 Authorized	FY2001 Cash Estimate	FY2002 Governor	FY2003 Forecast
<b>Unrestricted Revenues</b>						
None.		0.0	0.0	0.0	0.0	0.0
<b>Unrestricted Total</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Restricted Revenues</b>						
Interagency Receipts	51015	161.3	81.2	81.2	84.2	84.2
General Fund Program Receipts	51060	79.3	120.1	120.1	121.2	121.2
Statutory Designated Program Receipts	51063	60.7	85.8	85.8	86.2	86.2
Capital Improvement Project Receipts	51200	6,990.9	8,916.2	8,916.2	9,303.0	9,303.0
Investment Loss Trust Fund	51393	0.0	4.1	4.1	0.0	0.0
<b>Restricted Total</b>		<b>7,292.2</b>	<b>9,207.4</b>	<b>9,207.4</b>	<b>9,594.6</b>	<b>9,594.6</b>
<b>Total Estimated Revenues</b>		<b>7,292.2</b>	<b>9,207.4</b>	<b>9,207.4</b>	<b>9,594.6</b>	<b>9,594.6</b>

## Northern Design and Engineering Services

### Proposed Changes in Levels of Service for FY2002

Expansion of the State's federal highway transportation program and difficulties in recruitment and retention of engineers prompted a review of engineers' salary levels in FY2000. As a result, effective July 1, 2000, the Department of Administration (DOA) approved the upgrade of one to two salary ranges for each engineering position. DOA's approval is contingent upon continued review of the salary increases effect on recruitment and retention efforts and how the salary levels compete nationally.

### Summary of Component Budget Changes

#### From FY2001 Authorized to FY2002 Governor

*All dollars in thousands*

	<u>General Funds</u>	<u>Federal Funds</u>	<u>Other Funds</u>	<u>Total Funds</u>
<b>FY2001 Authorized</b>	<b>265.9</b>	<b>0.0</b>	<b>9,083.2</b>	<b>9,349.1</b>
<b>Adjustments which get you to start of year:</b>				
-Add \$83.7 CIP implement Phase 2 Indirect Cost Allocation Plan-comply with OMB Circular A-87	0.0	0.0	83.7	83.7
<b>Adjustments which will continue current level of service:</b>				
-Transfer out \$250.0 CIP to Central D&ES for personal service CIP program	0.0	0.0	-250.0	-250.0
-Year 2 Labor Costs - Net Change from FY2001	-0.1	0.0	-33.2	-33.3
<b>Proposed budget increases:</b>				
-Add \$589.7 to fund increases in Engineers' pay resulting from a classification study.	0.0	0.0	589.7	589.7
<b>FY2002 Governor</b>	<b>265.8</b>	<b>0.0</b>	<b>9,473.4</b>	<b>9,739.2</b>

## Northern Design and Engineering Services

## Personal Services Information

Authorized Positions			Personal Services Costs	
	FY2001 Authorized	FY2002 Governor		
Full-time	113	114	Annual Salaries	7,063,859
Part-time	22	16	COLA	119,664
Nonpermanent	0	0	Premium Pay	267,260
			Annual Benefits	2,441,415
			<i>Less 5.12% Vacancy Factor</i>	<i>(506,198)</i>
			Lump Sum Premium Pay	0
<b>Totals</b>	<b>135</b>	<b>130</b>	<b>Total Personal Services</b>	<b>9,386,000</b>

## Position Classification Summary

Job Class Title	Anchorage	Fairbanks	Juneau	Others	Total
Administrative Assistant	0	1	0	0	1
Administrative Clerk II	0	8	0	0	8
Drafting Technician III	0	7	0	0	7
Driller Journey	0	3	0	0	3
Driller Sub Journey	0	2	0	0	2
Engineer/Architect I	0	10	0	1	11
Engineer/Architect II	0	5	0	1	6
Engineer/Architect III	0	7	0	0	7
Engineer/Architect IV	0	2	0	0	2
Engineer/Architect V	0	1	0	0	1
Engineering Assistant I	0	2	0	0	2
Engineering Assistant II	0	8	0	2	10
Engineering Assistant III	0	13	0	4	17
Engineering Associate	0	2	0	0	2
Engineering Geologist I	0	1	0	0	1
Engineering Geologist II	0	2	0	0	2
Engineering Geologist IV	0	1	0	0	1
Engr in Training 25-3410	0	1	0	0	1
Engr in Training 25-3411	0	1	0	0	1
Environmental Analyst II	0	6	0	0	6
Environmental Analyst III	0	3	0	0	3
Environmental Coordinator	0	1	0	0	1
Land Surveyor I	0	2	0	0	2
Land Surveyor II	0	1	0	0	1
Right Of Way Agent I	0	1	0	0	1
Right Of Way Agent II	0	4	0	0	4
Right Of Way Agent III	0	7	0	0	7
Right Of Way Agent IV	0	3	0	0	3
Right Of Way Agent VI	0	1	0	0	1
Right Of Way Assistant	0	1	0	0	1
Survey Journey	0	3	0	1	4
Survey Lead	0	2	0	1	3
Survey Sub Journey II	0	4	0	1	5
Tech Eng I / Architect I	0	3	0	0	3
<b>Totals</b>	<b>0</b>	<b>119</b>	<b>0</b>	<b>11</b>	<b>130</b>