Alaska’s Construction Spending
2007 Forecast

Fourth Annual Report for the Construction Industry Progress Fund and the Associated General Contractors of Alaska

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Overview

Total construction spending in Alaska in 2007 that “hits the street” will be $7 billion, an increase of 7% from a revised figure of $6.56 billion in 2006.1 However, construction spending excluding the oil and gas sector—which by itself will account for 38% of the total—will be down from $4.525 billion to $4.365 billion, a drop of 4%.2

Because of increases in the cost of materials during 2006, construction industry employment, narrowly defined, will be essentially flat in 2007 even though total spending is expected to be higher than last year. Nevertheless, 2007 will be another very strong year for the construction industry, particularly among firms working for the oil and gas sector.

This year private-sector construction spending is projected to be $4.55 billion, up 15% over 2006, driven by a 30% increase in spending by the oil and gas sector. Public spending will be $2.45 billion, down 6% from 2006, due to a decline in federal spending that will not be totally offset by an increase in spending from state funding sources.

Uncertainty in the forecast for 2007 comes from several sources. The decline in the crude oil price in recent months may cause some firms working in the oil patch to re-evaluate their capital budget decisions and slow their rate of investment in exploration and development. All sectors of the industry are continuing to experience rapid increases in construction material costs that will undoubtedly cause some projects to be canceled or postponed, as has been the case in the last several years.

Public construction spending estimates are complicated by the fact that a federal budget for the 2007 fiscal year, which began in October of last year, has yet to be passed. In the absence of a budget, federal agencies have generally planned on program funding at the same level as last year. That could change when the budget is finally passed. The state capital budget enacted for 2007 is much larger than in it was in 2006, but the new governor may decide not to fund or to delay the funding of some projects it contains.3

As in past years, some firms are reluctant to reveal their investment plans, because they don’t want to alert competitors, and some have not completed their 2007 planning. Large projects often span two or more years, so estimation of cash that will “hit the street” this year is difficult. And tracing the path of federal spending coming to Alaska without double counting is a challenge. We are confident of the overall pattern of the forecast, but some surprises should be expected, as is always the case.

Alaska Construction Spending 2007 Forecast

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Source: Institute of Social and Economic Research
PRIVATE CONSTRUCTION

Privately funded construction projects will account for about 65% of total construction spending in 2007. This represents a 15% increase in spending compared to the total of $3.96 billion in 2006.

Oil and Gas: $2,650 Million

Spending in 2007 is expected to be about 30% above the level of last year due to an increase in exploration and development activity, primarily on the North Slope, by both the major producers and smaller independents. Although part of the increase is due to higher construction costs, the companies have announced plans to add additional workers and drill more wells. It is possible, of course, that some companies may re-evaluate their announced capital expenditures in light of crude oil prices, which have fallen significantly in the last few months.

The North Slope majors—BP, Conoco-Phillips, and Exxon—expect to invest over $1.6 billion in their Alaska operations in 2007. This will be concentrated on North Slope exploration and development because, unlike in past years, they will not be spending any of their Alaska capital budget on the purchase of tankers. Work will concentrate on, among other projects, the Alpine satellites, West Sak heavy oil, continued development of the Prudhoe Bay and Kuparuk areas, and construction of an ultra-low-sulfur diesel production facility. The completion date for the major reconfiguration of the trans-Alaska pipeline has been pushed back at least through this year, but netting that out of the total still leaves an increase in spending over last year for North Slope activity.

Activity on the North Slope by independents is up sharply from last year. We estimate spending will be $813 million. Shell has announced plans to drill four offshore exploratory wells and undertake a significant seismic program. Other companies that have announced plans to drill include Eni, Anadarko, Pioneer, FEX, Brooks Range Petroleum, and Savant.

In Cook Inlet, we expect exploration and development spending by Chevron, Marathon, and others will be modestly higher than last year at $182 million.

Mile 276 Parks Highway

Mining: $195 Million

We anticipate spending by the mining industry—on exploration, development, and construction of new mines as well as upgrading existing mines—to be about the same as last year.

The largest share of development spending will be devoted to the continued construction of the Kensington Mine near Juneau and the Rock Creek Mine outside Nome. Construction schedules for both have been delayed and are complicated by ongoing legal challenges. Exploration work will continue to be centered at the Pebble prospect west of Anchorage and the Donlin
Creek prospect northeast of Bethel. Although development plans for one or both of these projects may be forthcoming in the near future, it is likely to be several years before construction could occur at either of these large mining prospects.

Most of the other large operating mines will have more modest construction budgets this year, including the Red Dog, Pogo, Ft. Knox, Nixon Fork, Greens Creek, and Usibelli mines.

Exploration continues at a number of different prospects, buoyed by high metal and energy prices.

**Other Rural Basic Industries:** $20 Million

Although no large construction projects have been announced for the tourism, seafood, timber, and manufacturing sectors this year outside of the urban areas, we expect that normal maintenance associated with existing facilities will result in about $20 million in spending, down from $50 million last year.

**Utilities:** $385 Million

Major telecommunication firm spending will increase modestly this year, to $160 million, and natural gas utility spending at $23 million will also be higher because of a project to augment service to Fairbanks with LNG trucked from the North Slope.

Electric utility capital spending will be down from last year (at $170 million) with the completion of the Golden Valley Electric Association capacity expansion.

Private air freight facility expansion at Ted Stevens International Airport in Anchorage and small private port projects in the southeast will add about $40 million to the total.

**Hospitals:** $200 Million

Non-military hospital construction is projected to be down slightly from 2006. The Providence Health System is projected to have the largest construction budget this year, and a new Veterans Administration clinic in Anchorage will be under construction.

Most other private, public, and nonprofit hospitals around the state have smaller expansion plans. The new hospitals planned for Nome and Barrow are on hold this year pending funding from the federal government.

**Other Commercial:** $350 Million

Private commercial construction spending consists of a wide range of building types including retail, office, medical, hotel, and warehouse space. Some spending is driven by both the size of and growth in the economy, but the level of spending in this sector tends to be somewhat volatile given the small size of most commercial real estate markets. A few large projects have a big influence on the total for the year.

We expect spending to be higher this year, at $350 million, driven by a continued strong economy and a few large projects.

The largest projects are the expansion of the Anchorage museum and the new convention center. A number of large office buildings are also in various stages of planning.

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4 Our commercial construction figure is not comparable to the published value of commercial building permits reported by Anchorage and other communities. Sometimes municipal reports of the value of construction permits include government-funded construction, which greatly increases the total. We report all government construction in different categories. In addition, we have excluded hospitals, utilities, and private transportation facilities from our commercial total and reported them elsewhere.
as are several large retail establishments, some of which are new to Alaska. However, the rapid increase in construction costs in the last several years will probably cause some developers to reconsider their plans.

Additional retail space will continue to be the most important component of commercial construction for the Mat-Su Borough.

Fairbanks commercial construction spending will be strong, as a result of population growth stemming from military expansion.

Activities in the other smaller markets of the state will be mixed, depending on local economic conditions.

**Residential: $750 Million**

Rising prices will drive total residential construction spending higher this year in spite of a softening of the market in response to those higher prices. The number of new units should be down from previous highs for this reason.

The higher prices will continue to shift demand away from single-family and toward multifamily and rehabilitation of existing units.

We will continue to see a shift in new residential construction in Southcentral Alaska—which accounts for about 80% of new construction—away from Anchorage and toward the Mat-Su Borough. Anchorage residential construction will be increasingly composed of multifamily units and higher-value single-family homes.

Activity in Fairbanks will be robust due to an increase in military personnel.

Activity in the rest of the state will be mixed, depending on local economic conditions. Juneau and the Kenai Peninsula, in particular, will see strong residential spending.

**Public Construction**

Public construction spending in 2007 is expected to be about $2.45 billion, down 6% from last year due to a modest decline in spending financed by the federal government.

The majority of funding for public construction comes from the federal government, with smaller amounts from state and local sources financed by current revenues and bonds.

There are numerous ways to categorize public construction spending. For ease of collecting information about them, we have put them into eight categories.

**National Defense: $570 Million**

Defense spending will be down $160 million from last year. The drop is due to completion of the large military hospital at Fort Wainwright and a decision to slow the pace of expenditure of funds for construction activities at the main Alaska bases.

This budget consists of all military expenditures for defense purposes, as well as Corps of Engineers spending for environmental remediation and civil works—such as flood control. In recent years Alaska has benefited from an exceptionally large share of the total defense budget, and that is likely to remain high for several more years. In 2005 Alaska received over 7% of the entire budget of the Army Corps of Engineers, making Alaska the third largest recipient of Corps of Engineers construction dollars.

**Highways: $425 Million**

Although the amount of federal money authorized for highway construction in Alaska has increased in recent years, actual expenditures this year are expected to be down about $25 million from last year.
Federal funding will be down $125 million. This is due to uncertainty over the use of funds that have been earmarked in federal legislation for two large Alaska projects—the bridge over Knik Arm in Southcentral Alaska and the bridge between Ketchikan and Gravina Island in Southeast.

The drop in federal funding will be partially offset by an increase in funding from state sources of $41 million.

**Airports and Harbors: $360 Million**

The budget for airports and harbors will be up $30 million from last year to $360 million.

As in past years, the largest share of funding comes from about $200 million in federal funds from the Federal Aviation Administration. This will be spent on airport construction projects in the $5- to $10-million range throughout the state.

Spending at the major airports in Anchorage and Fairbanks will be $110 million, up $20 million from 2006. Most of the activity will be at the Ted Stevens International Airport in Anchorage, but a major upgrade at Fairbanks International Airport will get underway this year as well.

Spending at the Anchorage Port will be $36 million on renovations and upgrades. The port is still in the process of putting together its large-scale expansion project, which will cost upwards of $300 million. This will boost construction spending for airports and ports in future years.

State funded projects will add $10 million to the total.

**Alaska Railroad: $100 Million**

The capital construction program for modernizing and upgrading the Alaska Railroad will continue this year at an increased level, up from $80 million last year. Funding will come from a variety of federal sources as well as retained earnings. The focus of the program this year will be on track rehabilitation, siding extensions and upgrades, bridge replacement and upgrades, passenger equipment, and a collision avoidance system.

**Denali Commission: $100 Million**

Spending by the Denali Commission, created by Senator Ted Stevens to more efficiently direct federal capital spending to rural Alaska’s infrastructure needs, will be about the same this year as last.

The commission is moving into the funding of transportation projects, including roads and waterfront development. It continues to fund energy projects—including bulk storage units—and health facilities.

Development work has begun on hospitals in Nome and Barrow but construction is not expected to begin this year.

The Denali Commission’s inventory of project needs is quite long, and we can expect a continuation at least at the current level as long as there is federal support for this program.

**Education: $350 Million**

Education funding will be $30 million higher than last year.

Primary and secondary funding is estimated to be $225 million, funded by state grants and local bond authorizations for school construction and maintenance. An additional $20 million is locally funded.

The state school construction priority list contains projects totaling more than $1 billion for both construction and maintenance, so K-12 education spending should continue to be strong in the coming years.

University of Alaska construction projects will total $105 million, concentrated in
Anchorage with work on the new integrated science building. Other capital spending will be spread among the campuses at Fairbanks, Juneau, and elsewhere.

**Other Federal: $365 Million**

National defense; transportation spending for roads, airports, and ports; and the Denali Commission make up the largest and most visible part of federal construction spending in Alaska. We forecast an additional $365 million of federal capital spending in Alaska for other types of projects. This is down from $400 million last year.

In a normal year, most of the state capital budget is funded by federal grants. Excluding transportation projects, the largest category is rural sanitation projects, based on grants from the Environmental Protection Agency, Indian Health Service, and other federal agencies. This initiative will be contributing $100 million to state construction spending—$10 million more than last year—to fund the village safe water program. Other state departments with significant federal funding for capital projects include Commerce, Natural Resources, Veterans Affairs, and Public Safety.

The federal government also provides grants and other construction funding to Alaska tribes, nonprofit organizations, and local governments across the state. The most important recipients of these grants are Native nonprofit corporations, housing authorities, and health care providers. The largest single program is the Native American Housing Self Determination Act (NAHSDA) that provides funds for housing construction in Native communities through a large number of Native housing authorities throughout the state. Grants for health care not associated with a hospital or passing through the Denali Commission are also counted here.

We expect spending for these programs to be down from $150 million last year to $120 million this year.

We expect the level of direct construction spending by other federal departments to be down significantly from last year—from $110 million to $70 million. This includes construction spending by the Department of the Interior (the National Park Service, U.S. Fish and Wildlife Service, and Bureau of Land Management), the Postal Service, the Department of Agriculture, and the National Oceanic and Atmospheric Agency (NOAA). For example, the Barrow Climate Change Laboratory is still waiting for funding to move forward.

Other State and Local: $185 Million

Other state and local government capital spending from own sources (not federal or state) will be $185 million, an increase of $45 million from 2006.

We expect state-funded construction spending that is neither based on federal grants nor related to transportation or education to be about $80 million, a significant increase from the previous year due to the large size of the 2007 fiscal year capital budget. These projects fall primarily in the Departments of Commerce, Community, and Economic Development, Health and Social Services, Corrections, Military Affairs, and Public Safety. A new prison, estimated to cost $300 million, is in the planning stages, but is unlikely to be under construction until 2008.

Local government capital spending, from both general and enterprise funds, is estimated to be $105 million. The largest component in this category is the Anchorage Water and Wastewater utility, which plans to spend $62 million this year.

\(^5\) It is difficult to track all the federal dollars that find their way into construction spending in the state because there are so many pathways, and they change every year. The possibility of double counting funds as they pass from agency to agency, or become part of a larger project, also creates difficulties for the analyst.

\(^6\) This category excludes state and local spending for education, highways, airports, and ports.
WHAT’S DRIVING SPENDING?

Construction activity—measured by total spending, jobs, payroll, or gross product—has experienced strong growth for more than a decade, driven largely by growing federal capital grants to Alaska, large federal agency capital budgets, and oil and gas spending.

These large external sources of construction funds not only fuel public spending and oil patch spending but also give a general boost to the economy—and thus add to the aggregate demand for new residential, commercial, and private infrastructure spending.

This growth is evident in the construction industry payroll (Alaska Department of Labor) shown in the graph above, which surpassed $1 billion in 2005 for the first time since 1985. The values in years before 2005 are adjusted upward to account for inflation.

CONSTRUCTION IN THE OVERALL ECONOMY

Construction spending is one of the important contributors to overall economic activity in Alaska. It supports firms not only in the construction industry itself but also construction activity “hidden” in other sectors of the economy such as oil and gas and mining.

In addition, construction spending generates activity in a number of industries that provide input to the construction process. These “backward linkages” include, for example, sand and gravel purchases (mining), equipment purchase and leasing (wholesale trade), design and administration (business services), and construction finance and management (finance).

When the “hidden” construction activity and the “backward linkages” are included, the contribution of construction spending to the economy is considerably greater than is reflected in Alaska’s Gross State Product.

Measured by Gross State Product (GSP), the construction sector is only 5% of the economy (see chart below). But this consists mostly of the payroll of construction firms and does not reflect either construction “hidden” in other sectors or “backward linkages” to other industries. Including these would significantly increase the importance of construction as a component of GSP.