

Preconstruction - Dalton, Elliott, Richardson, Alaska, and Haines Highways **FY2009 Request: \$31,000,000**
Reference No: 46878

AP/AL: Allocation **Project Type:** Construction
Category: Transportation
Location: Statewide **Contact:** Frank Richards
House District: Statewide (HD 1-40) **Contact Phone:** (907)465-3900
Estimated Project Dates: 07/01/2008 - 06/30/2011
Appropriation: Gas Pipeline Infrastructure Preparation

Brief Summary and Statement of Need:

This project is the initial stage of a large scale effort to address highway, airport, bridge, and maintenance facility needs to support the construction of a large diameter natural gas pipeline from the North Slope to the Canadian Border and Midwestern states. The Dalton, Elliott, Richardson, Haines and Alaska Highways will be impacted by the projected increases in heavy truck traffic and the movement of pipe and oversized construction modules.

Funding:	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	Total
Gen Fund	\$31,000,000	\$75,000,000	\$75,000,000	\$50,000,000			\$231,000,000
Total:	\$31,000,000	\$75,000,000	\$75,000,000	\$50,000,000	\$0	\$0	\$231,000,000

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Additional Information / Prior Funding History:

Project Description/Justification:

Large scale investment of state funding is needed if we are to prepare our infrastructure before gas pipeline construction begins. Federal construction funds are inadequate to address this need and the federal project development process is too time-consuming to meet the required schedule.

Improvements needed to handle this expected traffic influx include highway reconstruction to strengthen highway embankments and pavement along selected segments. Widening and realignment will be done where existing shoulders and alignments are inadequate. Passing lanes, truck pullouts and rest areas will be constructed and enlarged. Bridges will also be improved to increase clearances and load capacity. Enlarged maintenance shops and equipment warm storage buildings to accommodate needed snowplows and other heavy equipment will be provided.

Project Justification

This project will initiate design work for construction segments needed to complete highway upgrades. It will address significant problems with embankment and surfacing. It will also address capacity and safety issues associated with substandard width, alignment and steep grades. This project will also fund efforts to secure and develop material sources that are essential for future project construction and highway maintenance, and conduct core drilling and other survey work needed for subsequent project stages. This advance work is essential to shortening project development schedules and enabling critical highway construction to occur prior to gas pipeline start up.

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Highway reconstruction projects will focus on the segments of the corridor with the poorest foundations and the greatest pavement and road surface distress. Shoulder widening, realignments, and replacement of failing culverts and other drainage structures will also be addressed. Passing lanes, truck pullouts and rest areas will reduce traffic backups and lessen unsafe passing. Bridge width, height and load bearing capacity will be increased to accommodate gasline modules and other oversized equipment. Maintenance station improvements will focus on accommodating larger snowplows and shop bays to enhance efficiency and equipment availability.

Project Description and Cost Estimates

While the design estimates below total \$53.5 million, this project funding request is for \$31 million to initiate design to ensure the most time critical projects in this corridor can be completed before gasline construction begins. Funding will be allocated to the following identified projects with flexibility retained to shift allocations between projects if necessary:

Dalton Highway

- Dalton Highway MP 0 to 9 Reconstruction: This project will reconstruct and widen the embankment and pavement structures and improve drainage.
Design: \$3,000,000
Construction: \$27,000,000 (future funding)
- Dalton Highway MP 18 to 37 Reconstruction: This project will reconstruct and widen the embankment and pavement structures and improve drainage.
Design: \$6,000,000
Construction: \$60,000,000 (future funding)
- Dalton Highway MP 49 to 55 Reconstruction: This project will reconstruct and widen the embankment and pavement structures and improve drainage.
Design: \$2,000,000
Construction: \$18,000,000 (future funding)
- Dalton Highway Material Site Development and Corridor Surveys: This project will conduct corridor surveys and geotechnical investigations for material site development.
Design: \$13,000,000
- Dalton Highway MP 9 to 11 Realign and Reconstruction
Design: \$500,000

Elliott Highway

- Elliott Highway MP 0 to 28 Reconstruction: This project will reconstruct and widen the embankment and pavement structures and improve drainage.
Design: \$6,000,000
Construction: \$43,000,000 (future funding)

Alaska/Richardson Highways

- Alaska/Richardson Highways Passing Lanes: This project will construct passing lanes at approximately 20 locations to accommodate increased truck traffic.
Design: \$4,000,000
Construction: \$60,000,000 (future funding)
- Alaska Highway MP 1235-1256 Rehabilitation: This project will rehabilitate embankment and pavement structures, improve drainage, and widen as necessary.
Design: \$4,500,000
Construction: \$42,000,000 (future funding)

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- Alaska Highway Tok River Bridge (#0506) Replacement: This project will replace the existing narrow truss bridge (253' x 24') with one that can accommodate oversized gasoline modules and construction materials.
Design: \$1,500,000
Construction: \$10,000,000 (future funding)
- Alaska/Richardson Highway Truss Bridge Upgrades: This project will upgrade the Johnson River Bridge, Gerstle River Bridge, Tanana River Bridge at Delta Junction to accommodate oversized gasoline modules and construction materials.
Design: \$2,000,000
Construction: To be determined
- Alaska/Richardson Highways Truck Rest Area Upgrades: This project will construct new and upgrade existing truck rest areas to accommodate increased truck traffic.
Design: \$3,000,000
Construction: \$40,000,000 (future funding)
- Alaska/Richardson Highway Maintenance Facility Improvements: This project will construct new shop facilities and equipment warm storage buildings at Delta Junction and Northway to accommodate snowplows and other road maintenance equipment.
Design: \$1,500,000
Construction: \$12,000,000 (future funding)

Haines Highways

- Haines Highway MP 21 to 25.3 Reconstruction, Realignment and Chilkat River Bridge Replacement: This project will replace and relocate the Chilkat River Bridge and brings the Highway to modern approved standards.
Design: \$6,500,000