Alaska Department of Transportation & Public Facilities



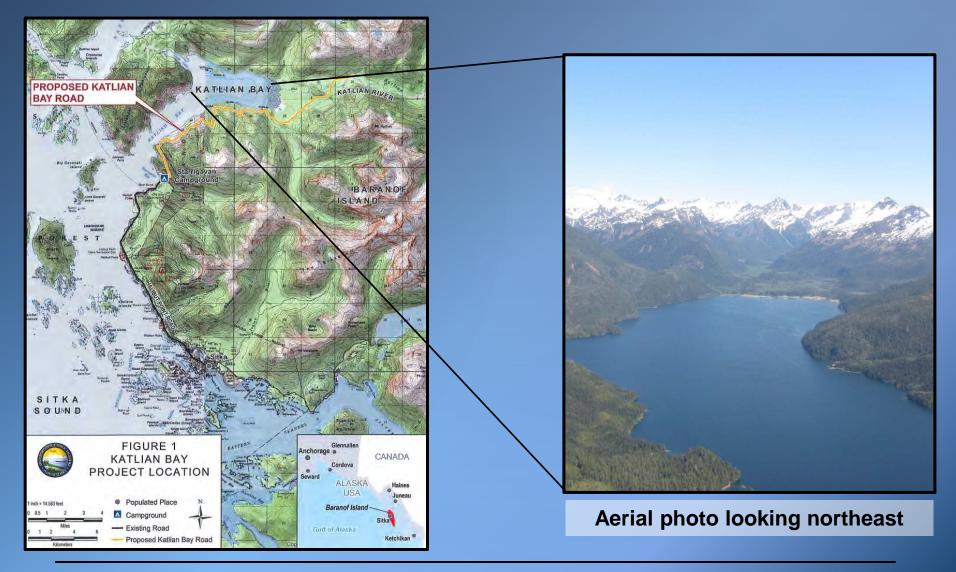
Sitka: Katlian Bay Road

Keith Karpstein, P.E. – Design Group Chief

March 2015



Katlian Bay Road



Project Origin & Funding

- In 2012 the Alaska State Legislature approved the Alaska Transportation Projects Bonds Question to be placed on the November ballot.
- The measure allowed for a general obligation bond to be issued for the purpose of transportation projects in the state.
- The bond was proposed to not exceed approximately \$454 million.
- Katlian Bay Road was approved for \$14 million of the total bond amount.
- The ballot measure was approved by voters in November 2012: 58% Yes and 42% No.
- Data collection and preliminary reconnaissance work began in early 2013.



Project Purpose & Need

<u>Purpose:</u>

The purpose of the proposed Katlian Bay Road project is to provide recreational and subsistence opportunities on Baranof Island within U.S. Forest Service (USFS) Sitka Ranger District managed lands, provide access to Native Corporation (Shee Atika) lands, and provide access to potential new material sources on State, Federal and Native Corporation lands for possible future development.

• <u>Need:</u>

Sitka currently has a finite road system that provides limited passenger vehicle access for recreation and subsistence activities. Furthermore, Sitka has a shortage of developable material sources for future projects on the existing road system.



Project Scope

The Project would:

- Construct 9 miles of new unpaved single-lane road starting from the end of Halibut Pt. Road
- Add bridges across Katlian River and other smaller streams
- Rehabilitate portions of an existing USFS road located on Shee Atika lands
- Add intervisible road turnouts
- Add pullouts as lookouts to Katlian Bay
- Add a parking and picnic area at the trailhead to USFS lands
- Be constructed and open for year-round use
- Cross Alaska State lands, USFS-managed lands & Shee Atika lands



Work Completed

- Environmental Studies Completed:
 - Fisheries
 - Wetlands
 - Wildlife
 - Visuals
 - Cultural resources

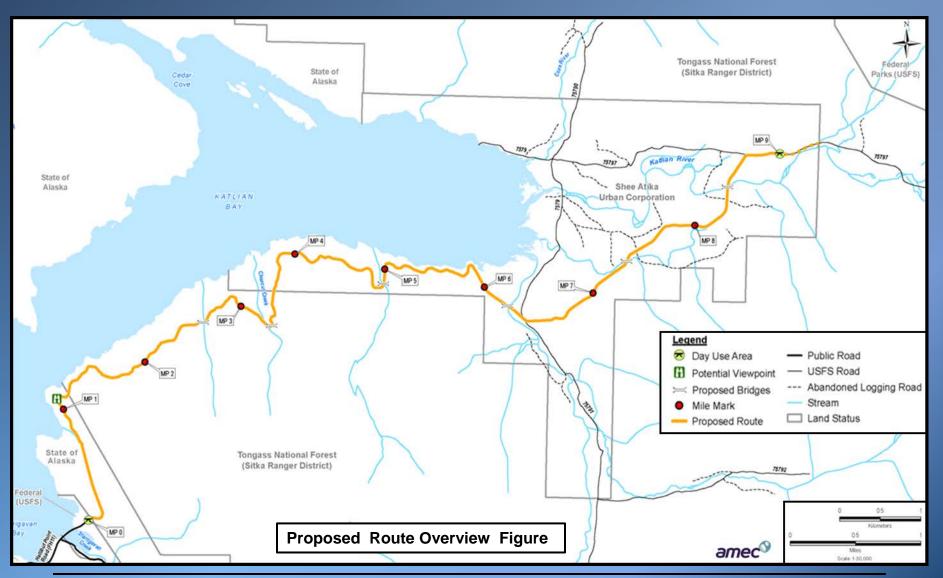
Engineering Activities Completed:

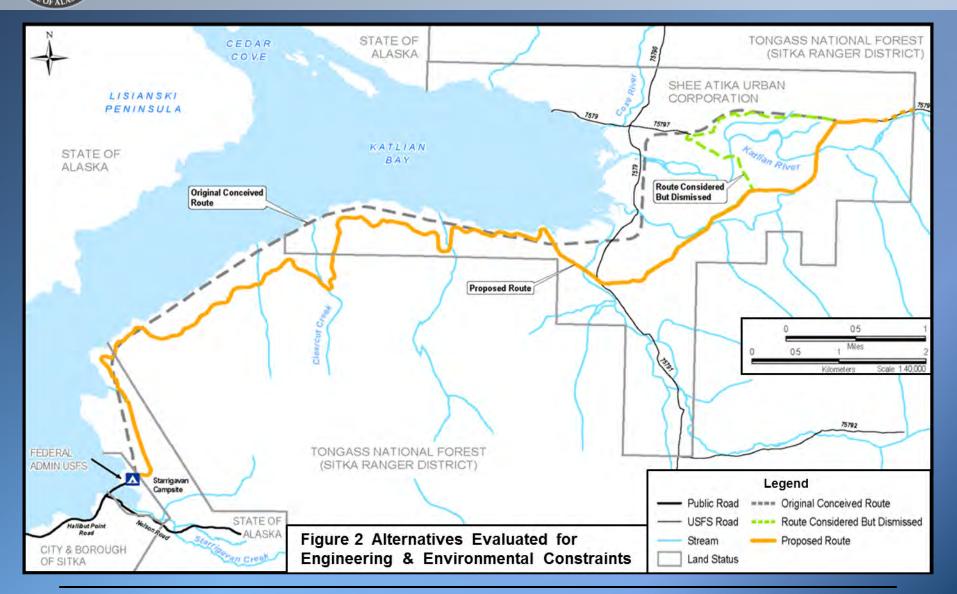
- Geotechnical Field Reconnaissance
- Preliminary Hydraulic Site Recommendations
- Cross Section Survey of Proposed Route
- 35% Plan Development

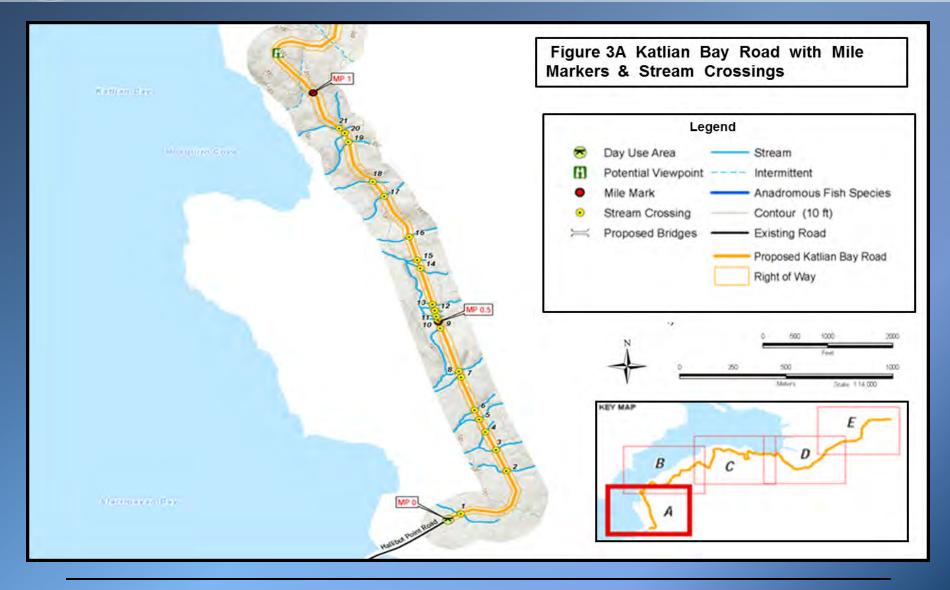




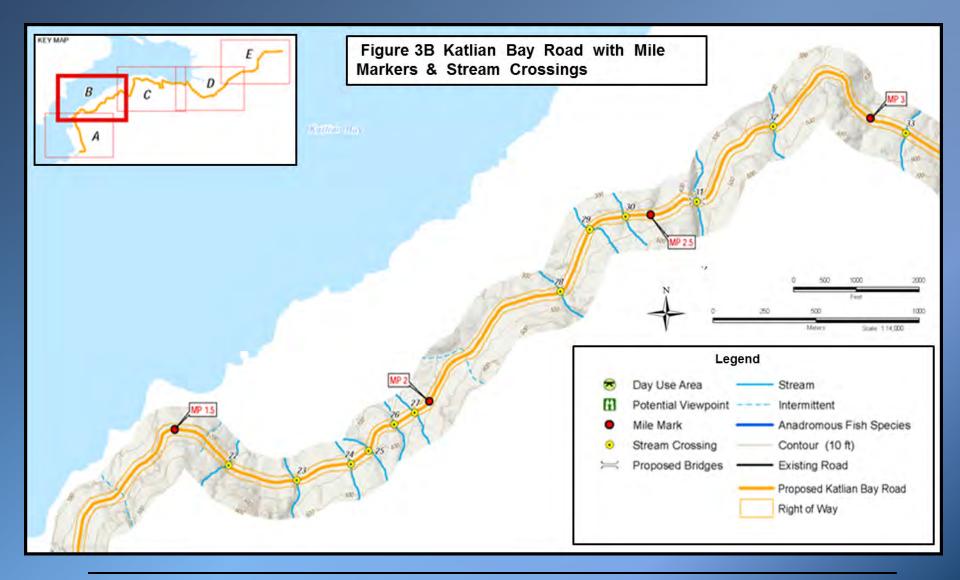
Proposed Alignment

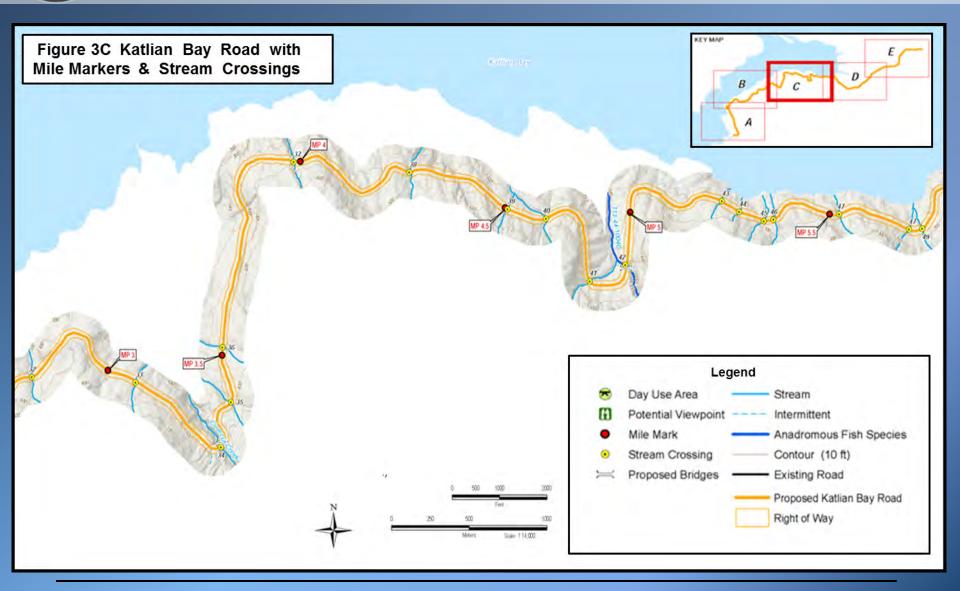




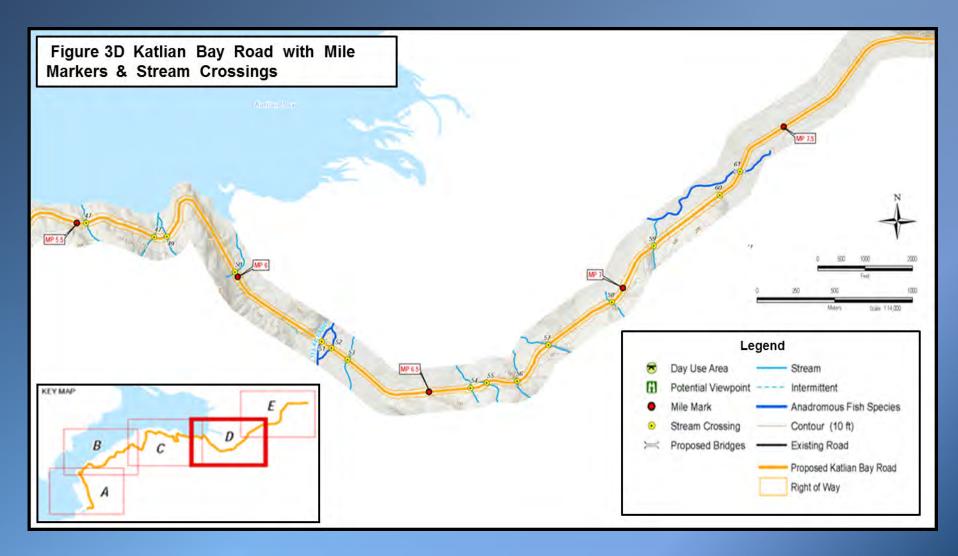




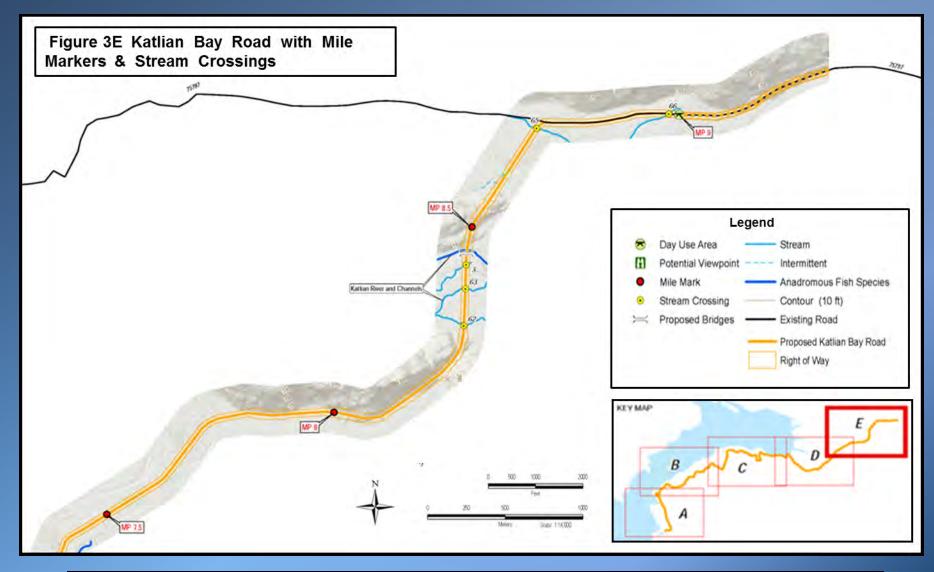




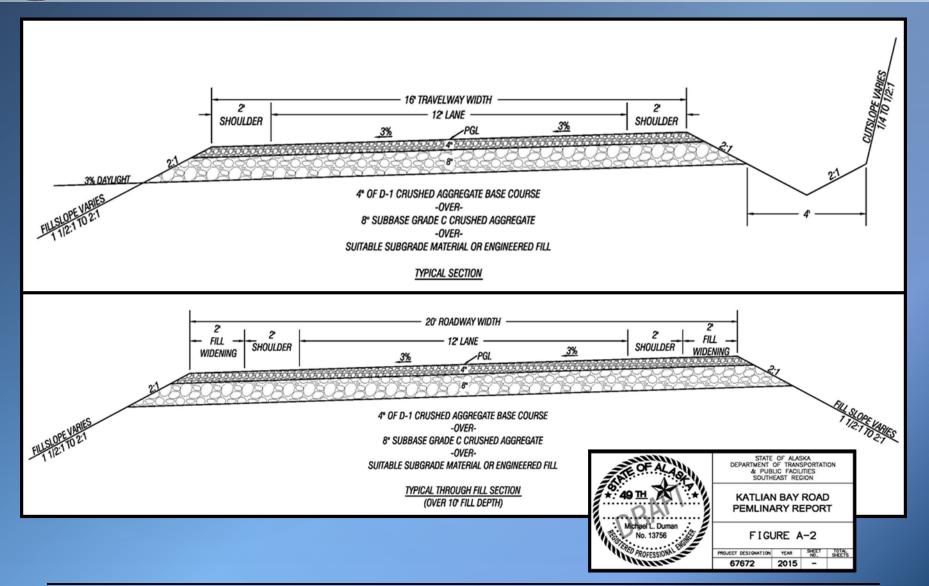




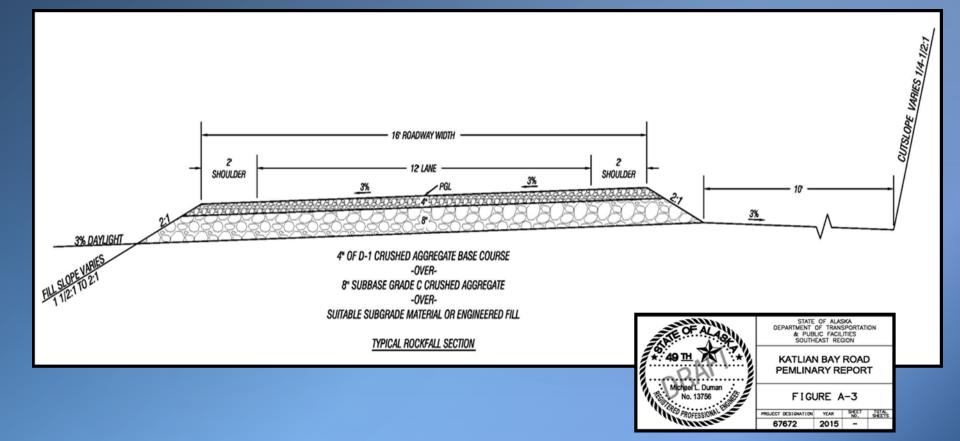




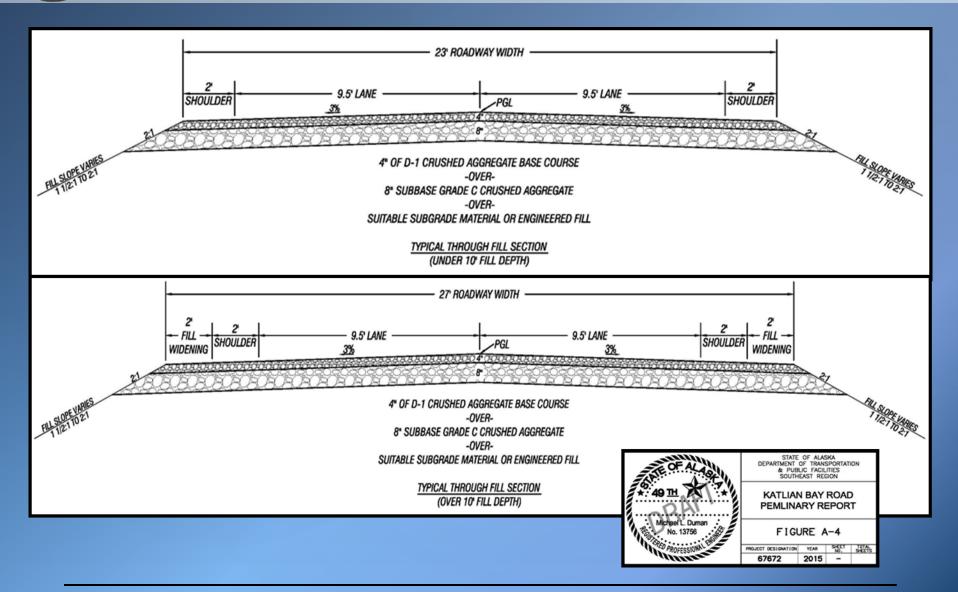
Roadway Typical Sections



Roadway Typical Sections (Cont'd)

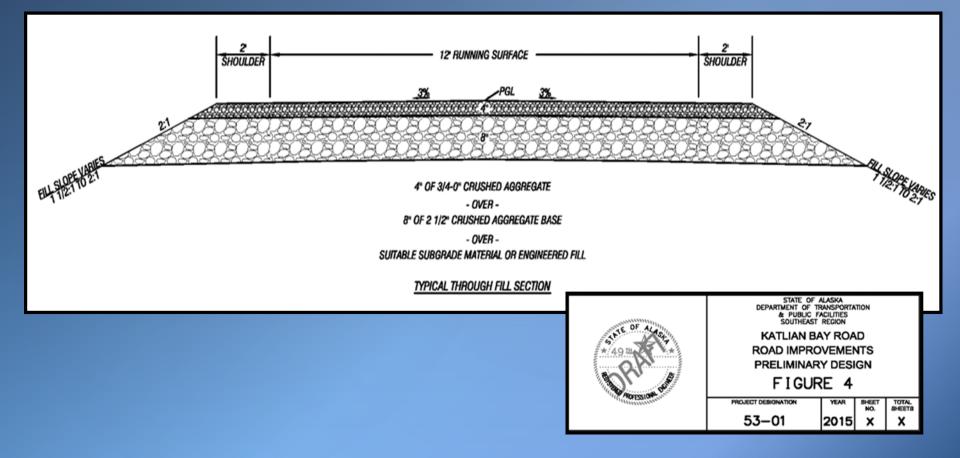


Roadway Typical Sections (Cont'd)



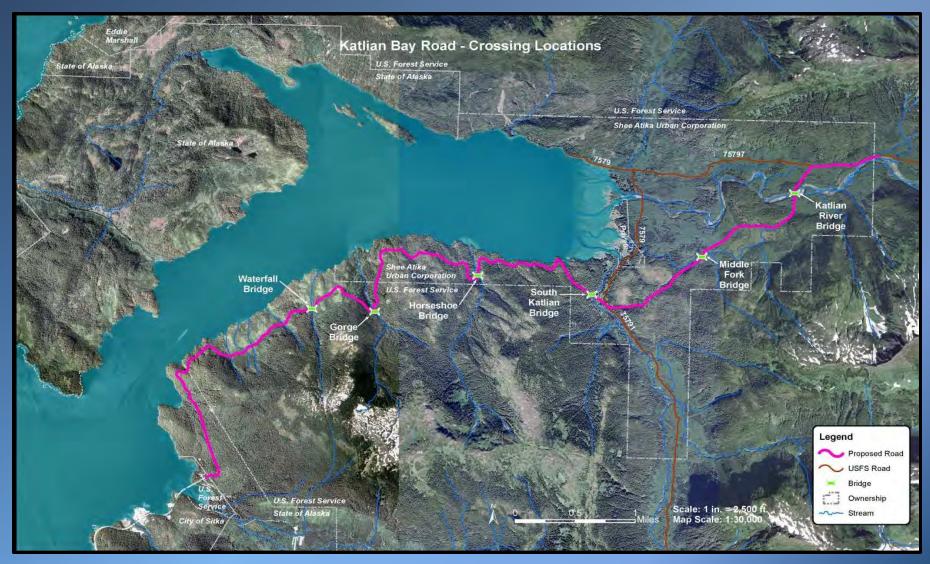


Roadway Typical Sections (Cont'd)





Structure Locations



Proposed Structures

	Waterfall	Gorge	Horseshoe	South Katlian	Middle Fork	Katlian River
Length	24	85	95	105	40	150
Width	16	32	16	16	16	16
Туре	Structural Plate Arch	Concrete Girder, Steel Girder or Flat Truss	Concrete Girder, Steel Girder or Flat Truss	Concrete Girder, Steel Girder or Flat Truss	Beam Bridge or Structural Plate Pipe Arch	Concrete Girder, Steel Girder or Flat Truss





Structure Examples



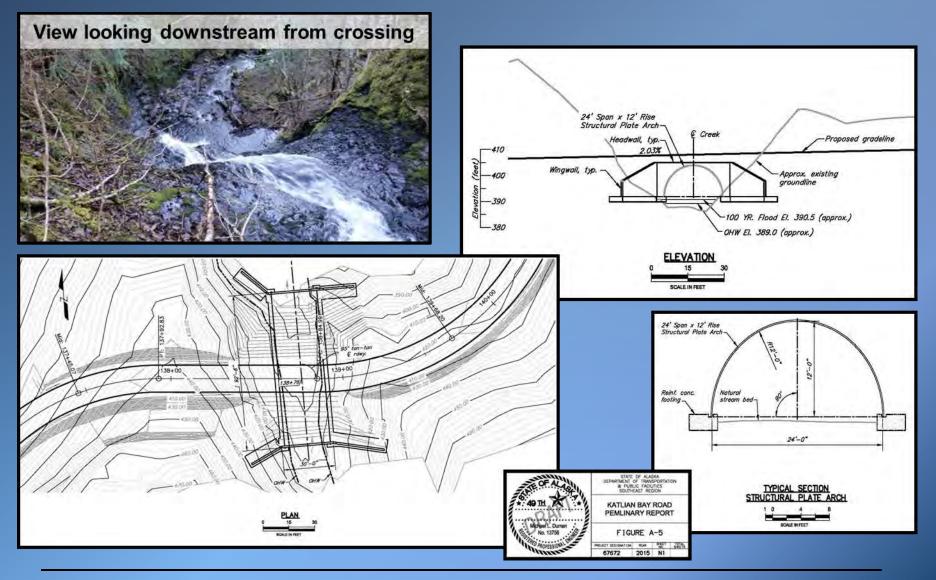
Flat Truss Bridge



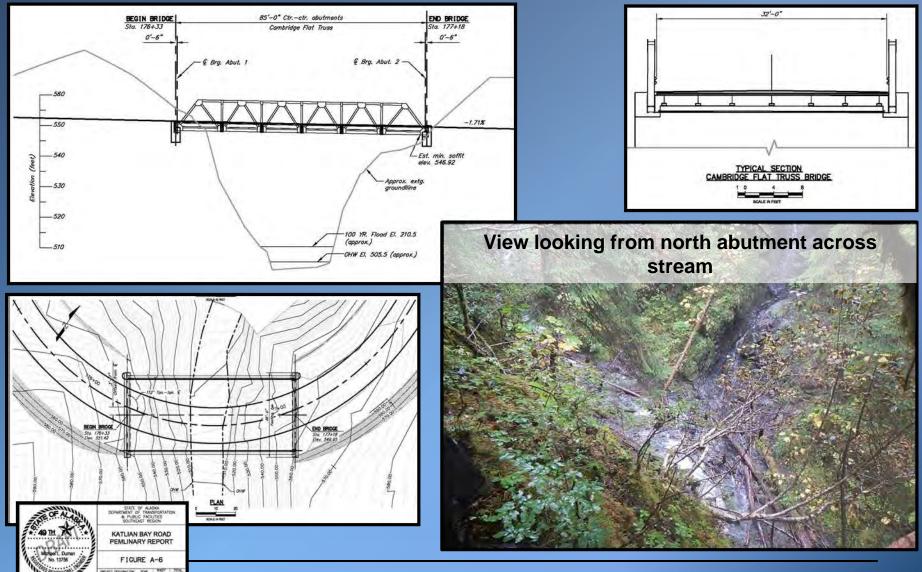
Beam Bridge



Waterfall Crossing



Gorge Crossing

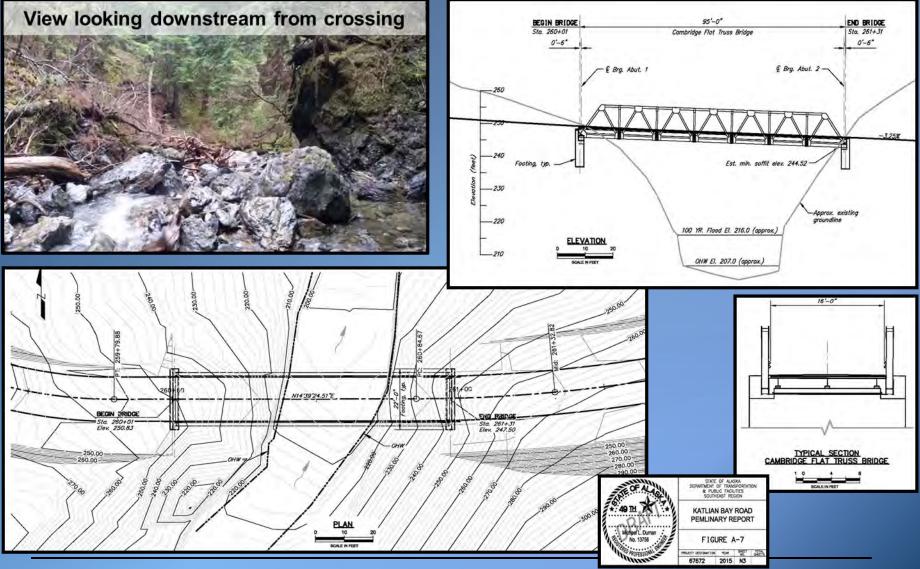


"Keep Alaska Moving through service and infrastructure."

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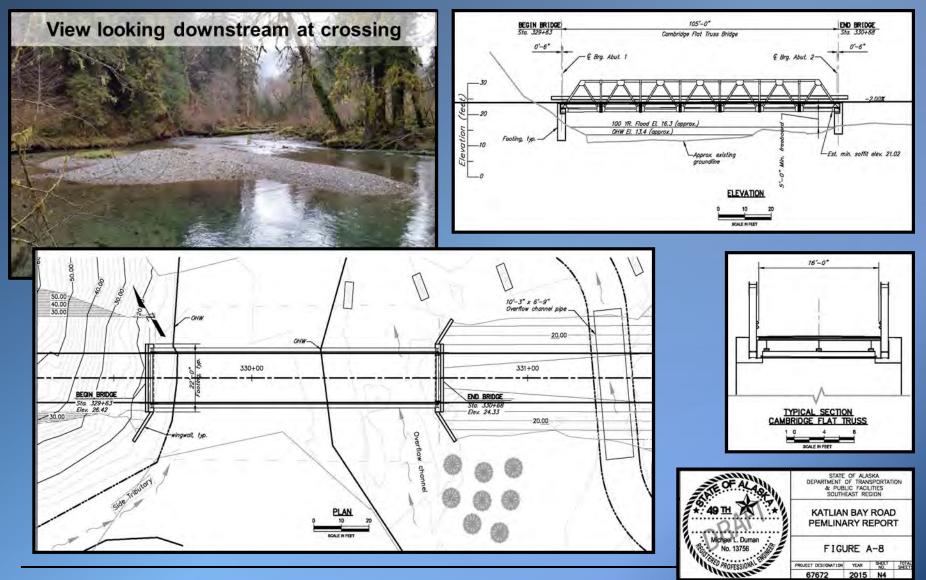
Horseshoe Crossing



"Keep Alaska Moving through service and infrastructure."

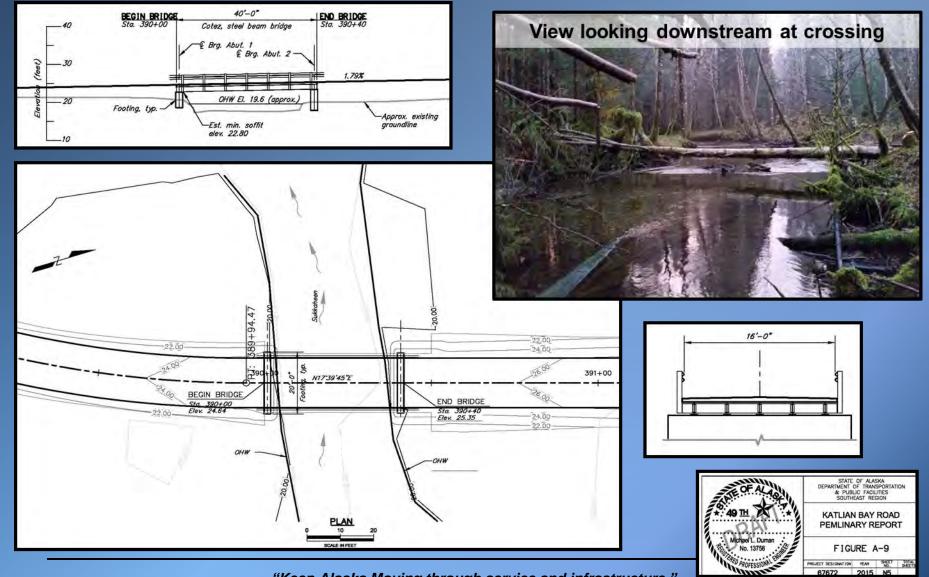


South Katlian Crossing



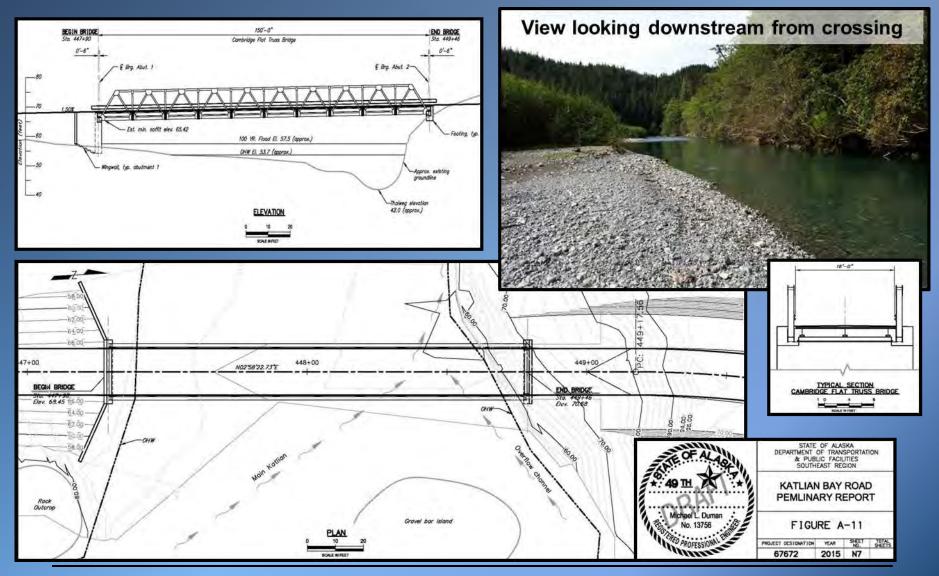


Middle Fork Crossing





Katlian River Crossing



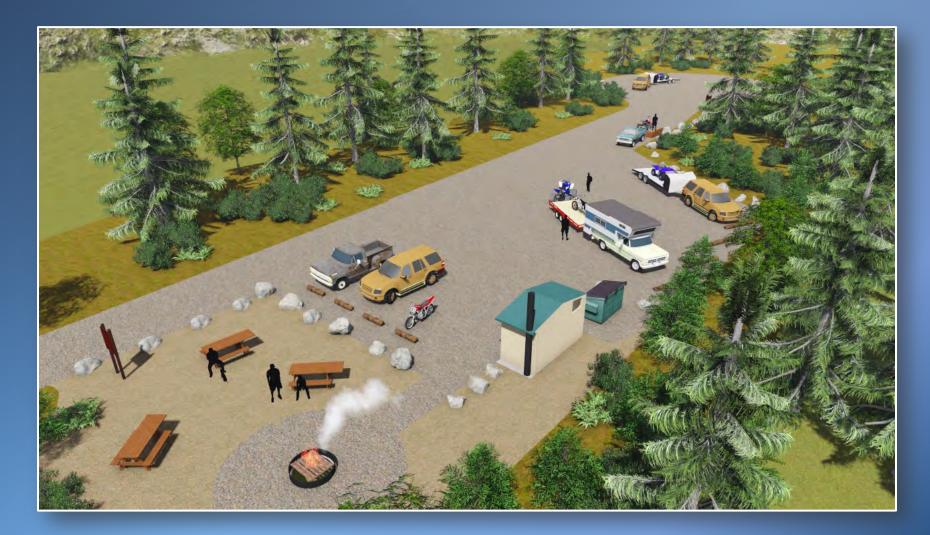


Points of Interest





Day Use Area – Near End of Project



Estimated Impacts

	Proposed Alignment		
Total length	9		
Total area impacted (acres)	97		
Wetland acres impacted	12		
# of cataloged anadromous stream crossings	4		
Presence of eagle nests	2 eagle nests are within 330 feet of the proposed work		



Estimated Project Costs

- > Engineering and Environmental Activities:
 - Approximately \$3.5 million
- **>**Mitigation:
 - Approximately \$500,000
- Construction Engineering & ICAP:
 - Approximately \$2 million
- **Construction:**
 - Approximately \$10 million
- >Total Project Cost:
 - Approximately \$16 million



Project Schedule

- Continued Engineering and Bridge Design
 - April 2015 June 2016

Further Environmental Studies

- April 2015 July 2015
 - Geotechnical
 - Fisheries
 - Wetlands
 - Wildlife



Project Schedule

Complete environmental activities & NEPA documentation for USFS & USACE Permitting

• August 2015

Advertise for Construction
June 2016

