

# Kenai Spur Highway Re-Alignment

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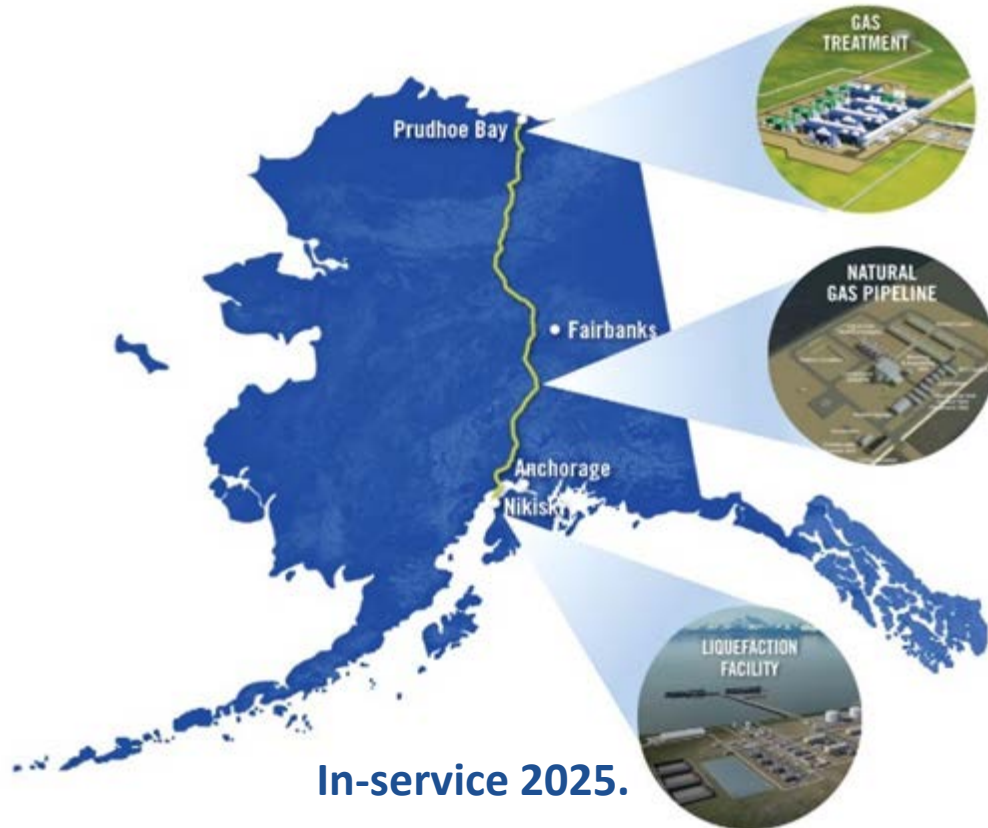
October 17, 2018



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# Project Status



All Components including gas supply  
are within **Alaska**.

- **Gas Treatment Plant:**
  - Treat and compress 3.5 Bcf/d.
  - Remove all CO<sub>2</sub>.
- **Pipeline:**
  - 807-mile (1,299 km), 42-inch (1.1 m) pipe.
  - Establish corridor under State of Alaska control.
  - Delivers over 3.3 Bcf/d.
- **LNG Production Facility:**
  - 20 MTPA; 3 trains with phased development opportunity.
  - Two 240,000 m<sup>3</sup> LNG storage tanks.
  - Two berths, capable of 217,000 m<sup>3</sup> vessels.

## Alaskans First Hiring Agreement:

- Agreed to key terms of an “Alaskans First” hiring agreement with local labor organizations for the construction of Alaska LNG.



## Federal Support:

- Presented comprehensive Alaska LNG project update to U.S. Secretary of the Treasury Steven Mnuchin on October 13. 3

## Gas Supply:

- Gas Sales Precedent Agreements signed with BP Alaska & ExxonMobil (May 4 & Sept. 10, respectively), now advancing final Gas Sales Agreements. Negotiating with ConocoPhillips.



## Gas Sales:

- Signed supplemental agreement with JDA parties.
- Advancing MOUs to Gas Sales Agreements with 16 LNG customers.

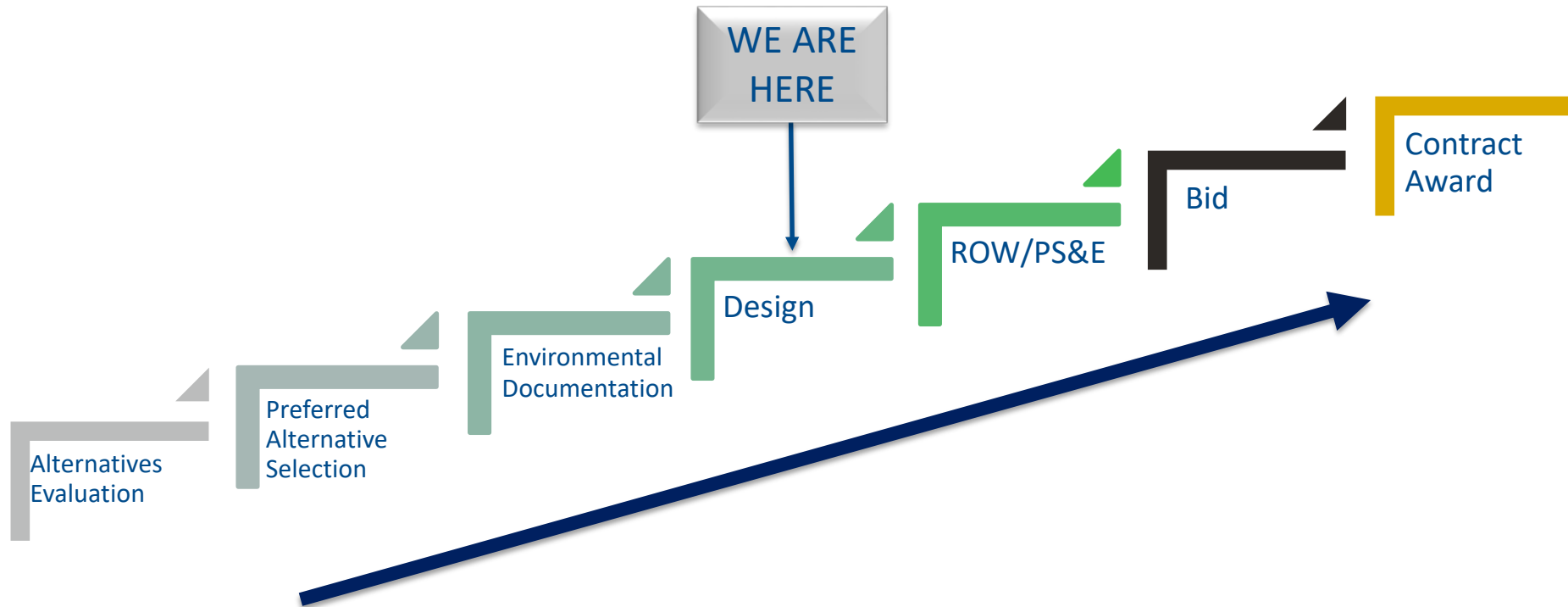
## FERC Section 3 Application & EIS Process

### **FERC schedule was accelerated by approximately 1 month:**

- Draft Environment Impact Statement (DEIS) – February 2019.
- Final Environmental Impact Statement (FEIS) – November 2019.
- Final Authorization/Record of Decision from FERC – February 2020.
- Major Federal permits and authorization for COE Wetlands, NMFS and BLM ROW will be tied to FERC ROD schedule.
- FERC currently drafting Preliminary Draft EIS (PDEIS) for internal/agency review.

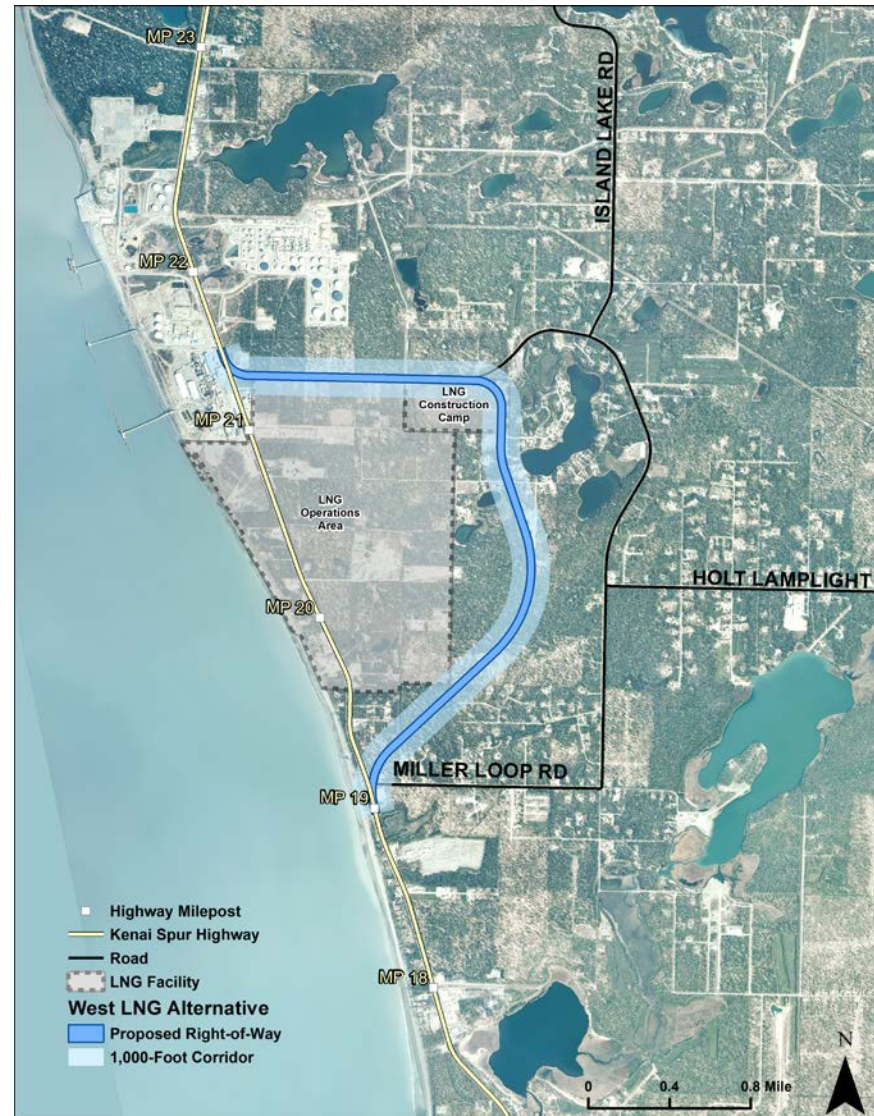
## **Kenai Spur Highway: Re-Alignment for Alaska LNG Facility**

# KSH Project Development



# Re-Alignment Highlights

- Roadway length of 3.7 miles
- 34 Parcels affected by 200' ROW, with a potential of 7 relocations
- The parcels affected may change based on intersection designs
- Annual maintenance cost of \$95,200
- Construction cost estimate of \$19.5 million (does not include ROW acquisition costs)



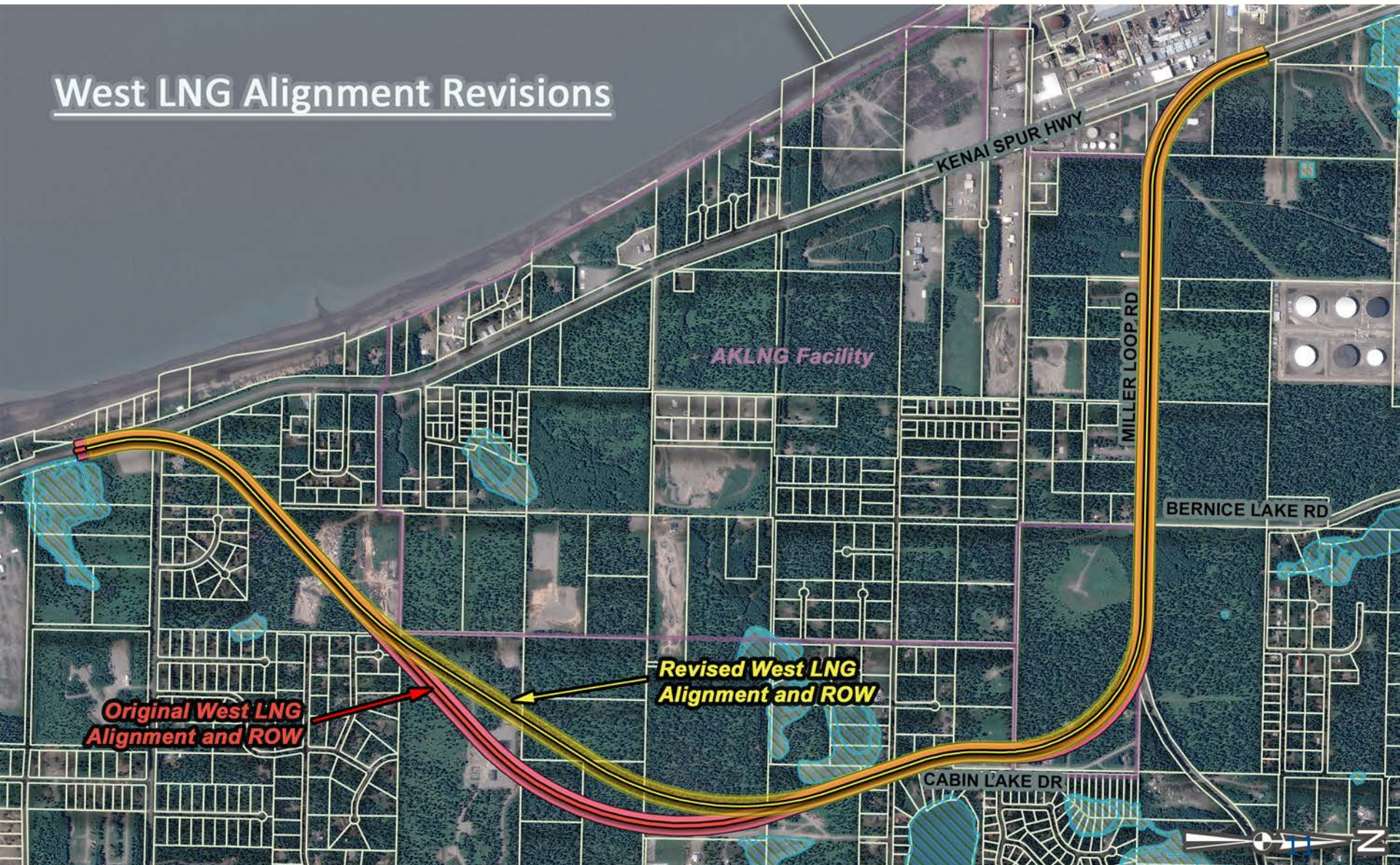


- **Program Manager Hired**
- **Retained Professional Services Consultant to perform preliminary highway design, ROW surveying and environmental work**
- **Coordination Meetings with DOT&PF**
- **Initiated Engineering, Surveying and Environmental Studies (see next slide)**

- **Completed Right-of-Way Field Work**
  - Received Permission from property owners.
  - Completed work in September, surveyed over 100 individual property corners.
- **Completed Field Locates for Utilities.**
- **Completed Wetlands Field Work.**
- **Initial Field Work to Verify Environmental Data.**
- **Initiated Roadway Design:**
  - Horizontal and vertical alignment design.
  - Design to optimize highway curves.
  - Re-aligned southern section of highway to reduce ROW impacts.

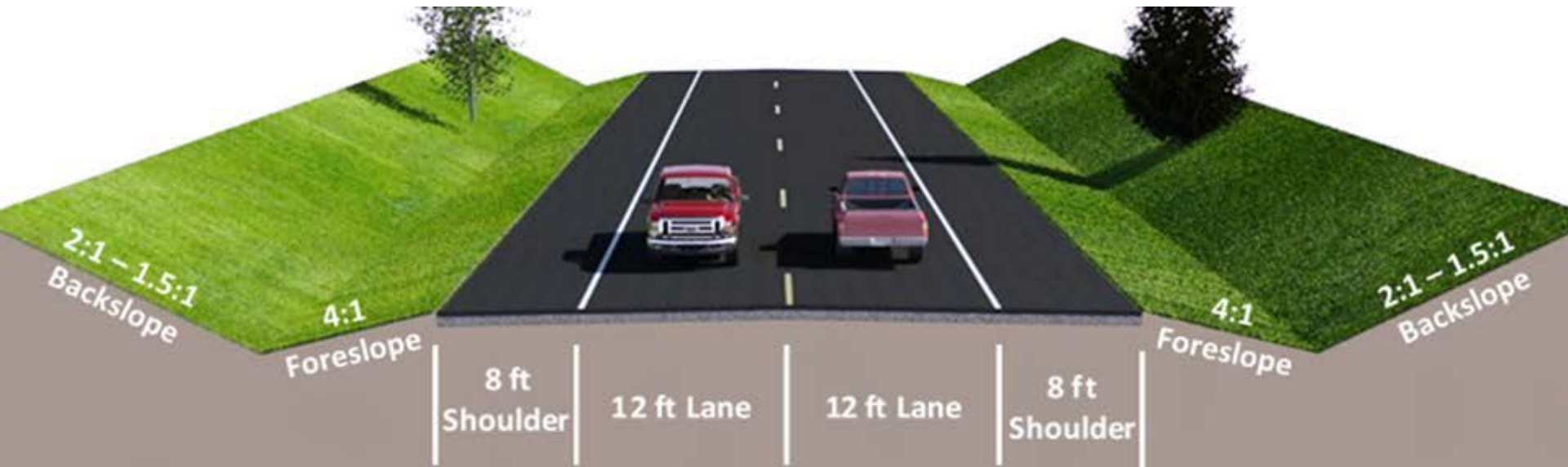
# Kenai Spur Highway West LNG

## West LNG Alignment Revisions



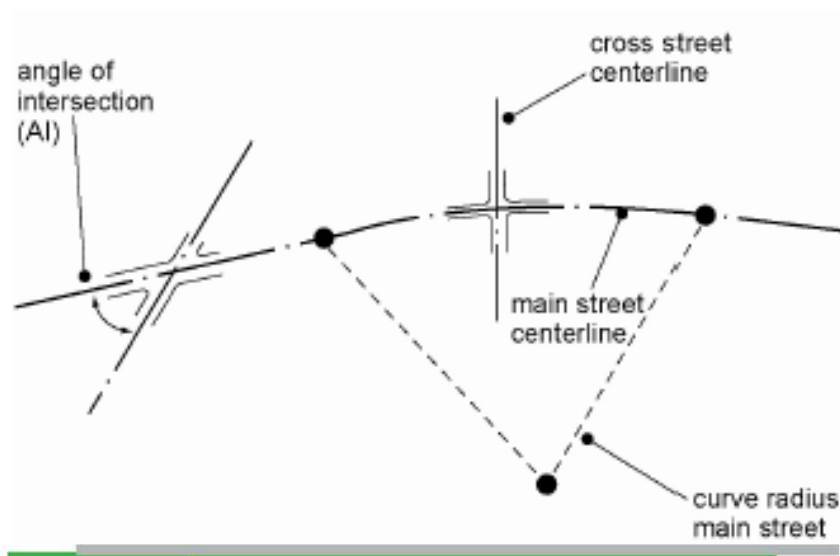
# Roadway Design

- National Highway System design standards.
- Two lane roadway accommodates projected traffic.
- 55 mph speed limit, 60 mph design speed.
- 200 foot Right-of-Way width.
- 8-foot shoulder to accommodate bicycle and pedestrian traffic.

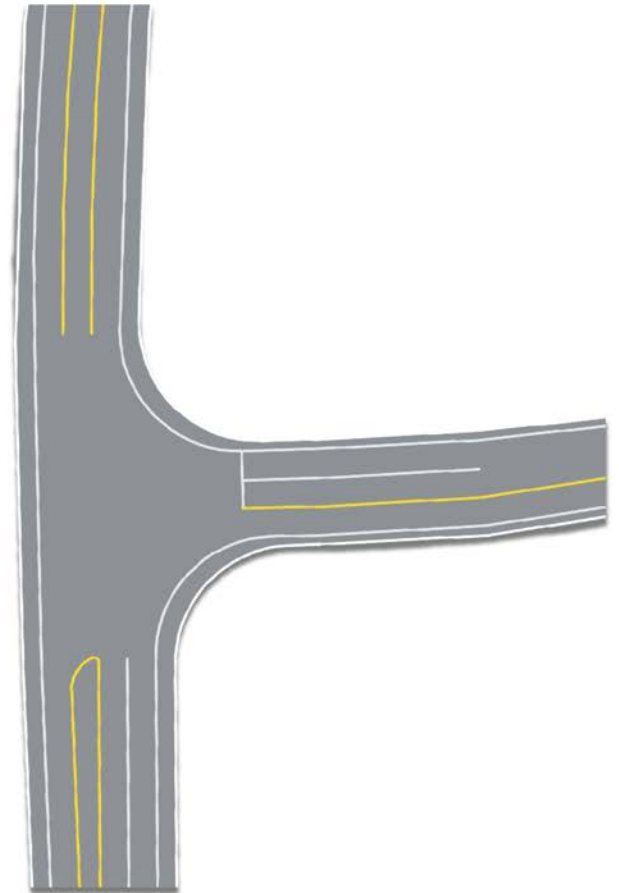
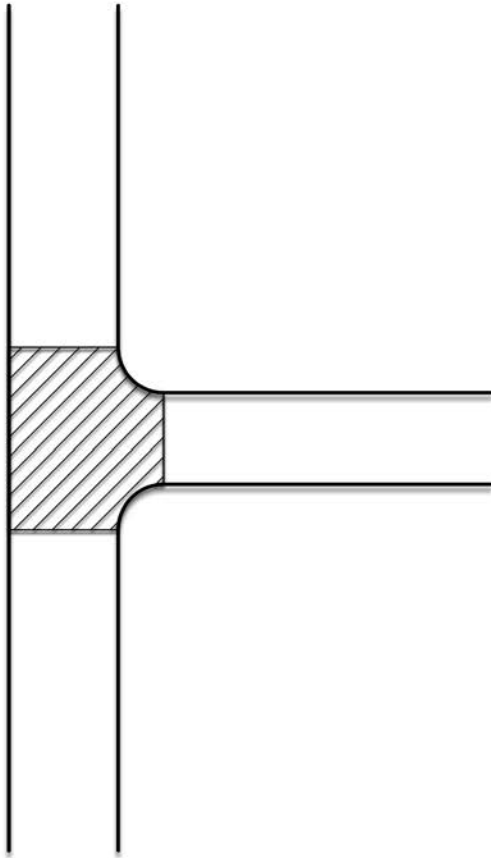


## Design parameters include:

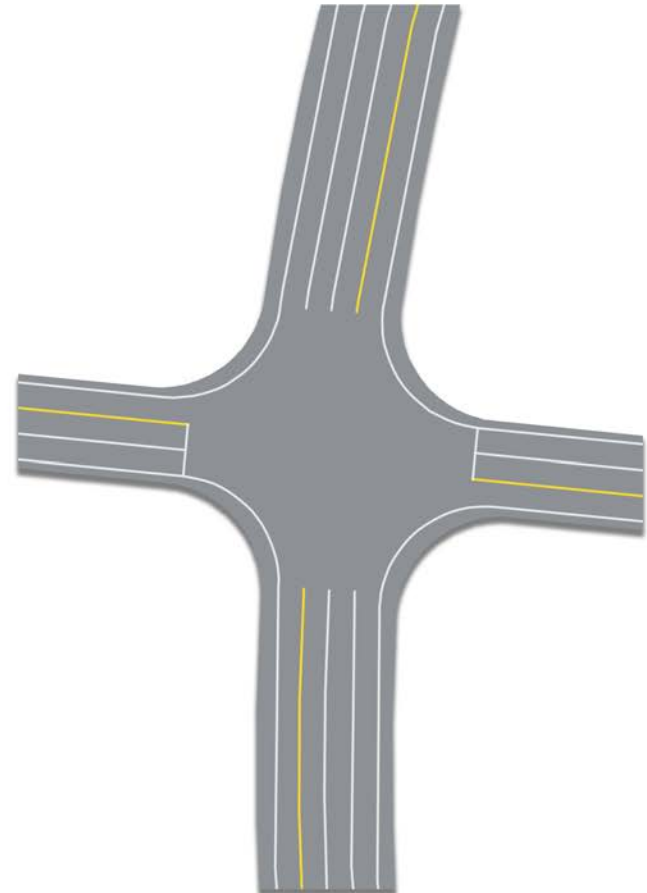
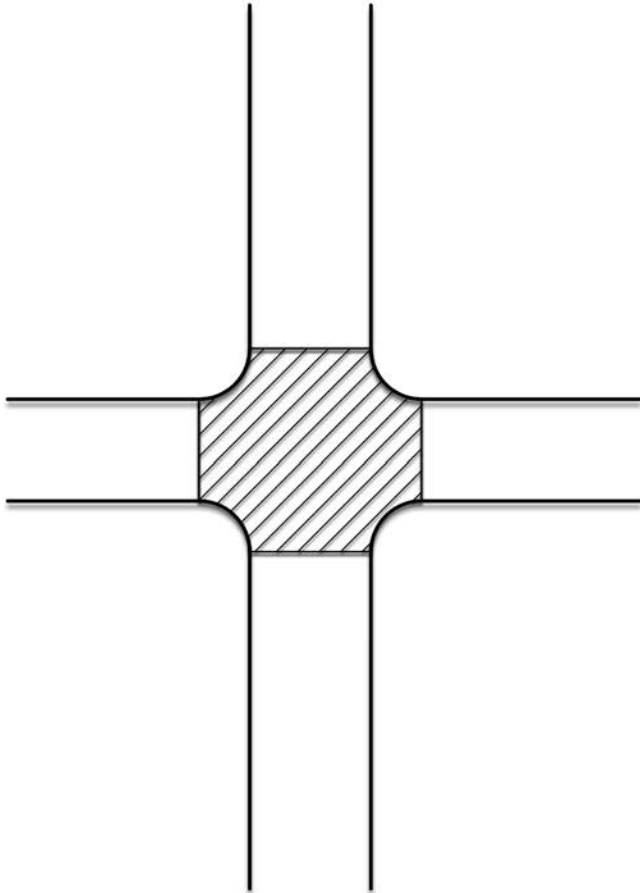
- Stopping sight distance on approach.
- Intersection sight distance.
- Algebraic difference of grades between intersection and mainline.
- Provision for left turns.



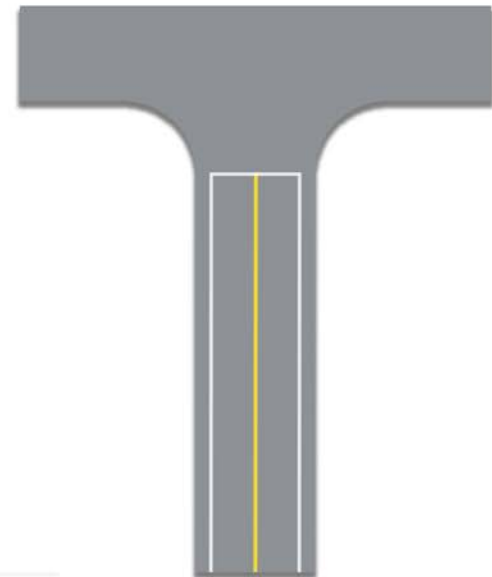
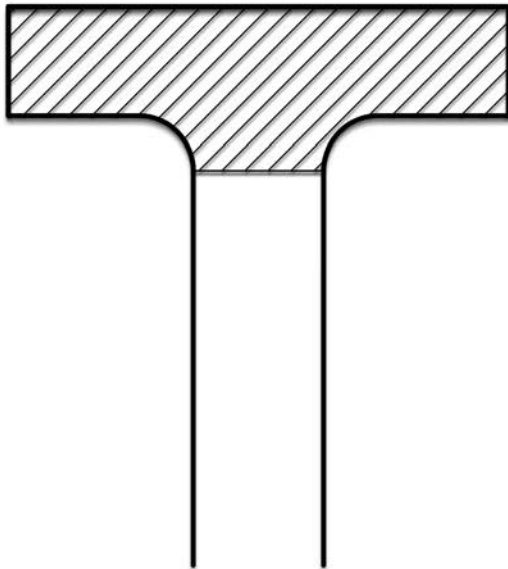
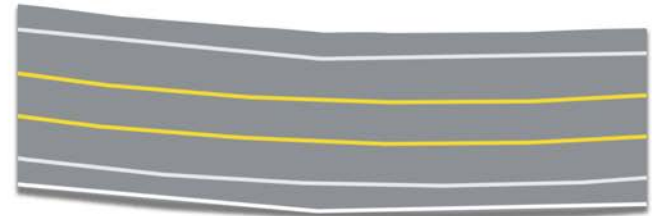
## 3 leg Tee type Intersections:



## 4 leg Intersections:



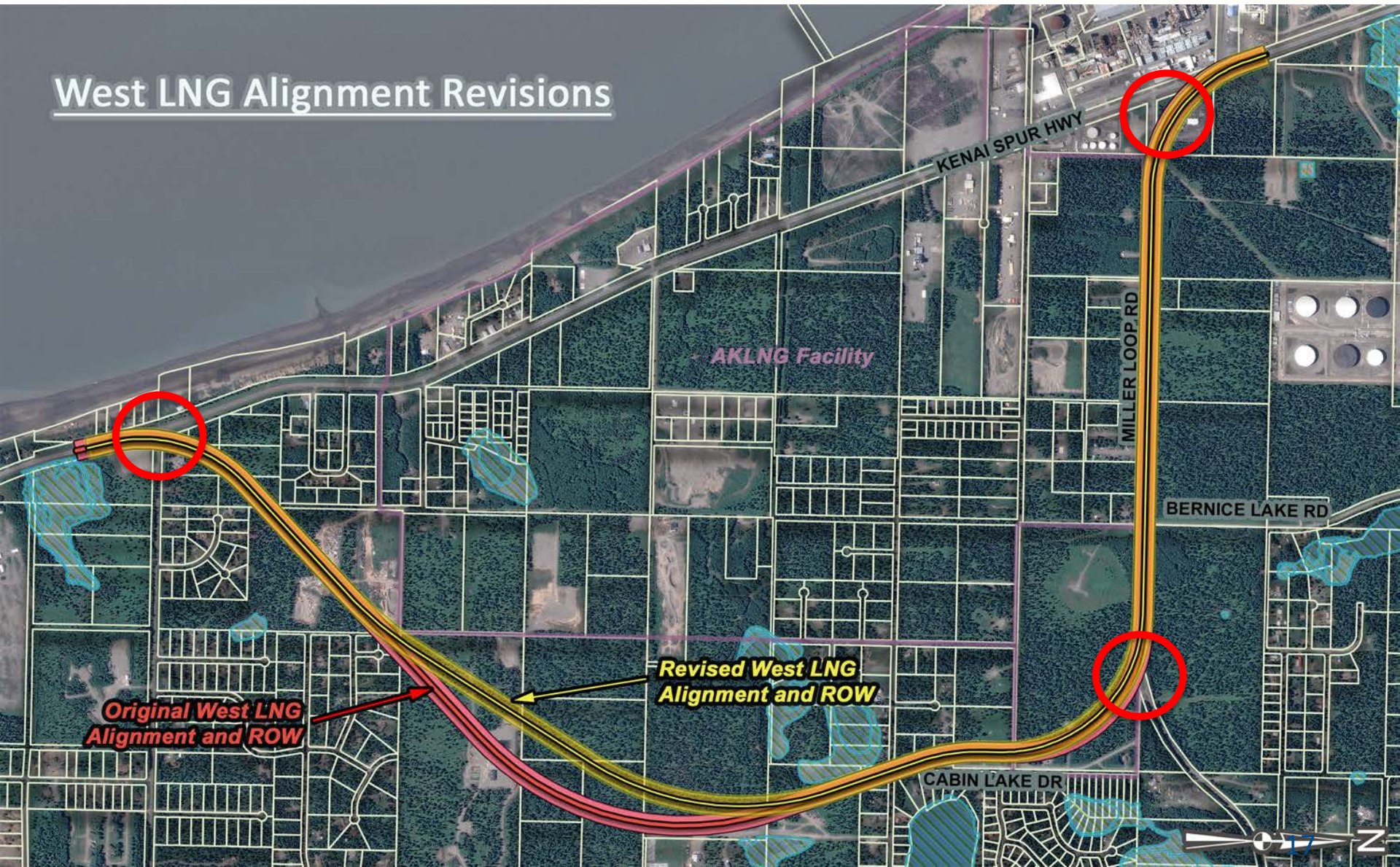
## Frontage Road with hammerhead type turnaround:

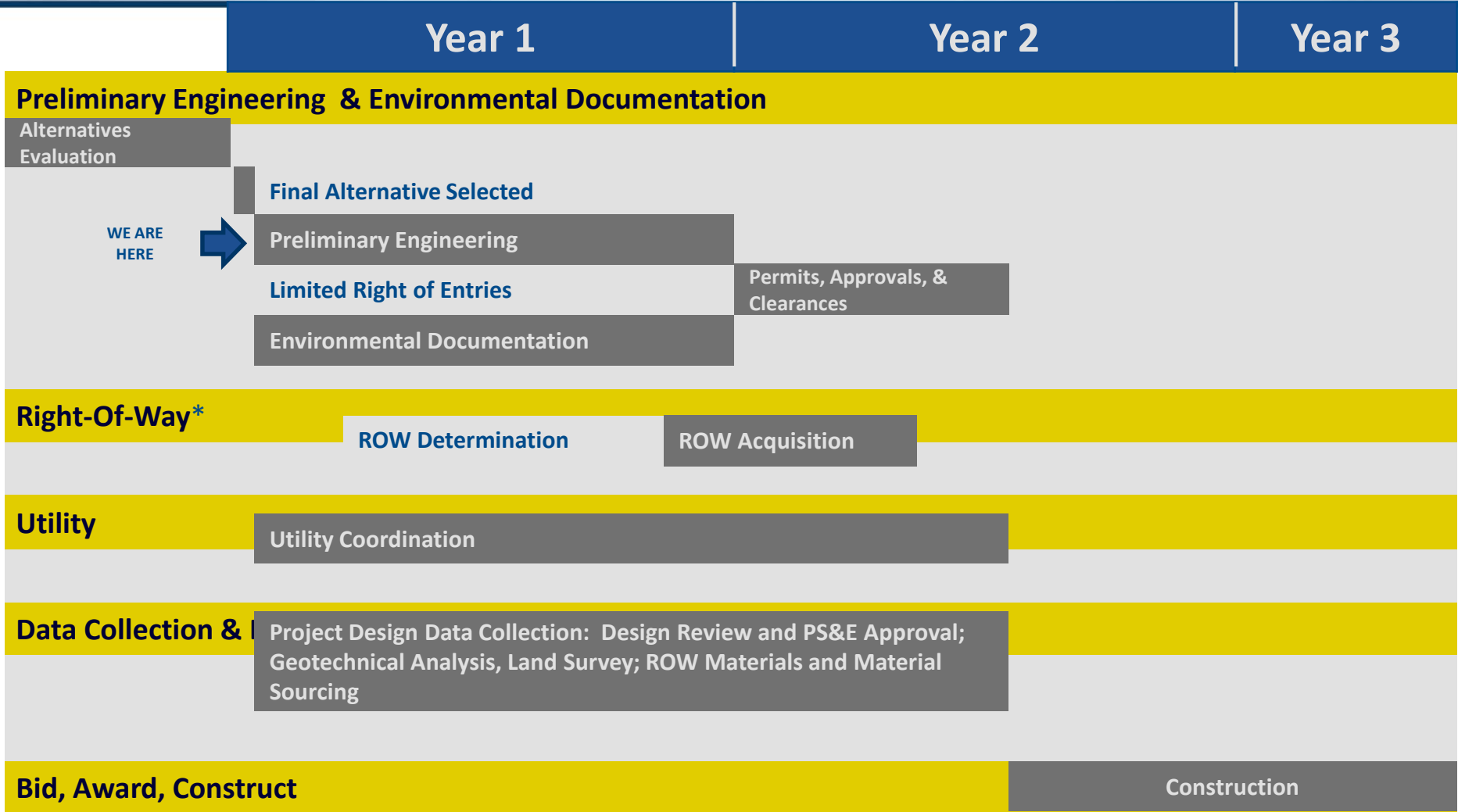




# Kenai Spur Highway West LNG

## West LNG Alignment Revisions





\*Assumes funding and project sanction is available. All tasks shift in accordance with funding availability.

- **February 12, 2018:**
  - Nikiski Community Meeting.
- **March 31, 2018:**
  - Deadline for public comments.
- **June 1, 2018:**
  - Alternatives Analysis Completed.
- **June 20, 2018:**
  - Community meeting to present selected alternative.
- **September 2018:**
  - Begin Permitting and Design.
- **October 17, 2018:**
  - Community meeting.

- **Complete environmental reconnaissance and investigation.**
- **Complete 30% level design plans.**
- **Update construction cost estimate.**
- **Complete cultural resources field work.**
- **Work with Kenai Peninsula Borough regarding ingress and egress for all impacted parcels.**

- **1<sup>st</sup> Quarter 2019 (tentative)**
  - 30% design completion.
  - Results of field studies & environmental documentation.
- **Acquisition Next Steps – 1<sup>st</sup> Quarter 2019**
  - Details on parcels affected by 30% design.
  - Individual affected landowners contacted.
  - Rollout of procedures & schedule.\*

**\*Detailed schedule dependent on project funding**

# Questions?

**Alaska Gasline  
Development Corporation**  
agdc.us

**Alaska LNG Project**  
alaska-lng.com

ALASKA  
GASLINE  
DEVELOPMENT CORP.

The logo for Alaska Gasline Development Corp. features the text "ALASKA GASLINE DEVELOPMENT CORP." in a blue, sans-serif font. To the right of the text is a stylized outline of the state of Alaska, composed of several blue stars of varying sizes arranged to form the state's shape.

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