



October 15, 2003

PROJECT SURVEY (Design-Build)

State:	Alaska
Agency:	Alaska Department of Transportation & Public Facilities
Project	Whittier Tunnel

Contact and Respondent Information

Primary Team Contact

First Name	
Last Name	
Email	
Job Title	
Organization	
Phone 1	

Phone 2	
Fax	
Address	
Address (Cont.)	
City	
State	
Zip Code	

Respondent Information ([Edit your personal information](#))

First Name	
Last Name	Jennifer
Email	Jennifer.Shane@Colorado.EDU
Job Title	
Organization	
Phone 1	
Phone 2	
Fax	
Address	
City	
State	
Zip Code	

Definition of Key Terms Used in the Survey

- **Design-Bid-Build (D-B-B):** The traditional project delivery method in which design and construction are distinct, sequential steps in the project development process, subject to separate procurement approaches and processes.
- **Design-Build (D-B):** A project delivery method in which the design and construction phases are contractually-integrated activities of the project development process. As used in this study, design-build includes the design and construction development stages. The term can also be used to encompass services in addition to design and construction, such as maintenance, operations, and finance (i.e., design-build-maintain, design-build-operate-maintain, and design-build-finance). Franchise and concession agreements are included in the term if they provide for the franchisee or concessionaire to develop the project that is the subject of the agreement.
- **Design-Builder:** The entity contractually responsible for delivering the project design and construction that holds the design-build contract with the owner.
- **Designer:** The lead professional design firm for the project.
- **Builder:** The lead general construction contractor for the project.
- **Subconsultant:** A designer that has a design subcontract with the lead design firm.
- **Subcontractor:** A construction firm that has a subcontract with the lead general contractor.
- **Contracting Agency:** Public agency awarding and administering a design-build contract. The contracting agency may be the State Transportation Agency or another state or local public agency.
- **ITS:** Intelligent Transportation Systems.

Project Specific Information

1. Project Specific Information	
Project Name	
Project Location	
Project Team or Contractor	
Respondent Role in this project	Role of <i>Jennifer</i>

2. Project Description

a. Facility Type (Estimate percentage of total project cost that falls into each category)	(%) Road (%) Bridge(s) (%) Tunnel(s) (%) HOV Lanes (%) ITS (%) Other:
b. Project Type (Estimate percentage of total project cost that falls into each category)	New Construction/Expansion % Rehabilitation/Reconstruction % Resurfacing/Renewal % Other: %
c. Highway Type (Estimate percentage of project cost that falls into each category)	Rural Interstate % Urban Interstate % Rural Primary % Urban Primary % Rural Secondary % Urban Secondary %

d. Project Size (Indicate dimensions)

Total Cost (\$000s)

Road Length Lane-Miles

Square Feet of Bridge Deck Square Feet

Maximum Bridge Height Feet

Number of Bridge Columns (#)

Other (ITS, etc.):
unit**3. Project Delivery Approach** (Indicate approach used for this project)

Design-Bid-Build

Design-Bid-Build w/Warranty

Design-Build

Design-Build w/Warranty

Design-Build-Operate-Maintain (DBOM)

Design-Build-Operate-Maintain-Finance (DBOM-F)

Performance-Based Total Asset Management

Job Order Contract (Indefinite Delivery/ Indefine Quantity)

In-House Agency Staff (i.e. force account)

Additional Commensts:

4. Procurement Approach (Indicate approach used for this project)

Low Bid - no technical evaluation

Bid Averaging Method (BAM)

Request for Proposals w/Design Alternatives

Multi-Parameter Bidding

Schedule

Lane Rental

Cost Plus Time (A+B)

Traffic Control

Warranty

Warranty Credit

Quality Parameter Measures within Percent Limits

Quality Parameter Measures within Performance Indicators

Best-Value, [please review this link for definitions of the following terms](#)

Low Bid - Meets Technical Criteria

Adjusted Bid

Adjusted Score

Weighted Criteria

Cost-Technical Tradeoff

Fixed Price - Best Design

5. Award Basis

Competitive bid

Negotiated award

6. Contract Type

Fixed Price - Lump Sum

Unit Price

Cost Plus Fixed Fee

Cost Plus Fixed Fee with Guarantee Maximum Price

Other:

7. Use of Incentives or Disincentives

7a. Were incentive clauses used for this project?

No Yes

If "yes", indicate the kind of incentives used:

7b. Were disincentive or penalty clauses used for this project?

No Yes

If "yes", indicate the kind of disincentives or penalty clauses were used:

8. Extended Warranty Beyond Specified Minimum

a. Was any kind of warranty associated with the contract for this project?

No Yes

If "No", skip to question 9.

b. Type of warranty included in the project contract:

- Material & workmanship
- Performance or Condition
- Other (indicate below):

c. Duration of warranty - after project completion, in years:

d. Escape clause criteria (specify which type(s) used in the contract):

- Time limit
- Cumulative axle loading
- Other (indicate below):

e. Was the extended warranty a competitive factor in the selection process?

No Yes

f. Did the extended warranty increase or decrease any of the following project attributes?

Project Duration	No	Yes; if "Yes", by what % (+ or -)
Project Quality	No	Yes; if "Yes", by what % (+ or -)
Project Cost	No	Yes; if "Yes", by what % (+ or -)

Additional Comments:

9. Project Team Organization

Builder as prime

Designer as prime

Joint Venture

Multi Prime/Multiple Prime Contracts

Integrated design-builder

Other:

10. Project Characteristics:

a. Primary project purpose:

b. Characterize the project according to the following criteria

Project Characteristics	Rating						
	Low: 1					High: 6	
Degree of technical/engineering complexity	1	2	3	4	5	6	N/A
Degree of schedule urgency	1	2	3	4	5	6	N/A
Flexibility of project scope	1	2	3	4	5	6	N/A

c. What percentage of the following activities were complete when the design-build contract or the construction contract was issued for this project?

Activity	% Completed
Design:	%
NEPA Clearance:	%
Permit Clearance:	%
Right-of-way Acquisition:	%

d. Describe any unique feature about this project that significantly influenced any of the following project attributes:

Duration:

Cost:

Quality:

e. Was lifecycle costing taken into account during project conceptualization?

No Yes

If so, was it a factor in your agency's bid evaluation process? No Yes

Comments:

11. Specification Type

Specification Type	% of Total Specifications
Prescriptive	%
Performance	%

Planned project acceptance date	(mm/dd/yyyy)
Actual project acceptance date	(mm/dd/yyyy)
Number of liquidated damages days	days
Project Velocity - average per month:	
Lane-miles completed	Lane mile/month
Square feet of bridge deck completed	sq ft deck/month
Project cost spent	\$000s/month

16. Cost Performance Metrics. Indicate the planned and actual costs (in thousands of dollars) for the following project delivery activities:

Project Development Stage	Agency PE Cost/ RFP Cost	Design-Builder Design Costs	Design-Builder Construction Costs	Agency Contract Administration and Inspections Costs	Total Project Costs
At Budget (Engineer's estimate)					
At Contract Award					
At Final Cost					

b. Indicate the reasons for major changes in project costs:

	Rating						
	None: 1	2	3	4	5	Major: 6	
Owner required additions or subtractions	1	2	3	4	5	6	N/A
Design-Builder or Contractor suggested additions or subtractions	1	2	3	4	5	6	N/A
Events not controllable by sponsor or contractor (weather, etc.)	1	2	3	4	5	6	N/A
Poor design	1	2	3	4	5	6	N/A
Differing site conditions	1	2	3	4	5	6	N/A
Unit price adjustment clauses	1	2	3	4	5	6	N/A
Sponsor delays (environmental clearance, land acquisition)	1	2	3	4	5	6	N/A
Contractor delays (design, environmental clearance, land acquisition, construction, inspection approval)	1	2	3	4	5	6	N/A

Third party additions or subtractions	1	2	3	4	5	6	N/A
Third party delays	1	2	3	4	5	6	N/A
Other:	1	2	3	4	5	6	N/A

c. Indicate the number and total cumulative value of all **change orders/extra work orders** for this project:

Number of approved change/extra work orders	Number
Cumulative net value of approved change/extra work orders	(\$000s)

d. Indicate the number and total cumulative value of all **claims** for this projects:

Number of approved claims	Number
Cumulative net value of approved claims	(\$000s)

e. Indicate the amount (value) of **any re-work** required after the project was accepted by the owner (re-work means additional work required to correct deficiencies that appear after the project is put into service as a result of design or construction errors):

Within 1 year	(\$000s)
Beyond 1 year	(\$000s)

17. Quality Performance Metrics

a. List the success criteria used for this project by the agency and the relative performance achieved:

b. Indicate the overall quality results for this project:

Quality Criteria	Rating						
	Poor: 1	2	3	4	5	Superior: 6	
Conformance with standards/specifications	1	2	3	4	5	6	N/A
Compliance with warranty provisions	1	2	3	4	5	6	N/A
Overall sponsor satisfaction	1	2	3	4	5	6	N/A

c. Characterize the prior experience/expertise of the key stakeholders of this project with the project development approach used (check whichever boxes apply, with one box checked per row):

Stakeholder Group	Prior Experience						
	None: 1	2	3	4	5	Excellent: 6	
Agency/Owner	1	2	3	4	5	6	N/A
Design-Builder	1	2	3	4	5	6	N/A
Designer	1	2	3	4	5	6	N/A
Builder/Constructor	1	2	3	4	5	6	N/A
Subconsultant(s)	1	2	3	4	5	6	N/A
Subcontractor(s)	1	2	3	4	5	6	N/A
Finance (bond underwriter)	1	2	3	4	5	6	N/A
Insurance (surety vendor)	1	2	3	4	5	6	N/A

e. Could this project have been delivered more successfully, based on what you now know about the delivery approach used?

No Yes Unclear

If "Yes", explain how:

19. Additional Comments: