



Alaska Department of Transportation & Public Facilities

Whitshed Road and Pedestrian Improvements

IRIS Number NFHWY00129, Federal Project Number 0837004

Northern Region
November 1, 2018



Project Scope & Purpose

Scope: Provide pedestrian accommodations along Whitshed Road between the Copper River Highway and Orca Inlet Drive intersections.

Purpose:

- Improve safety and mobility for all users - motorists, pedestrians and bicyclists





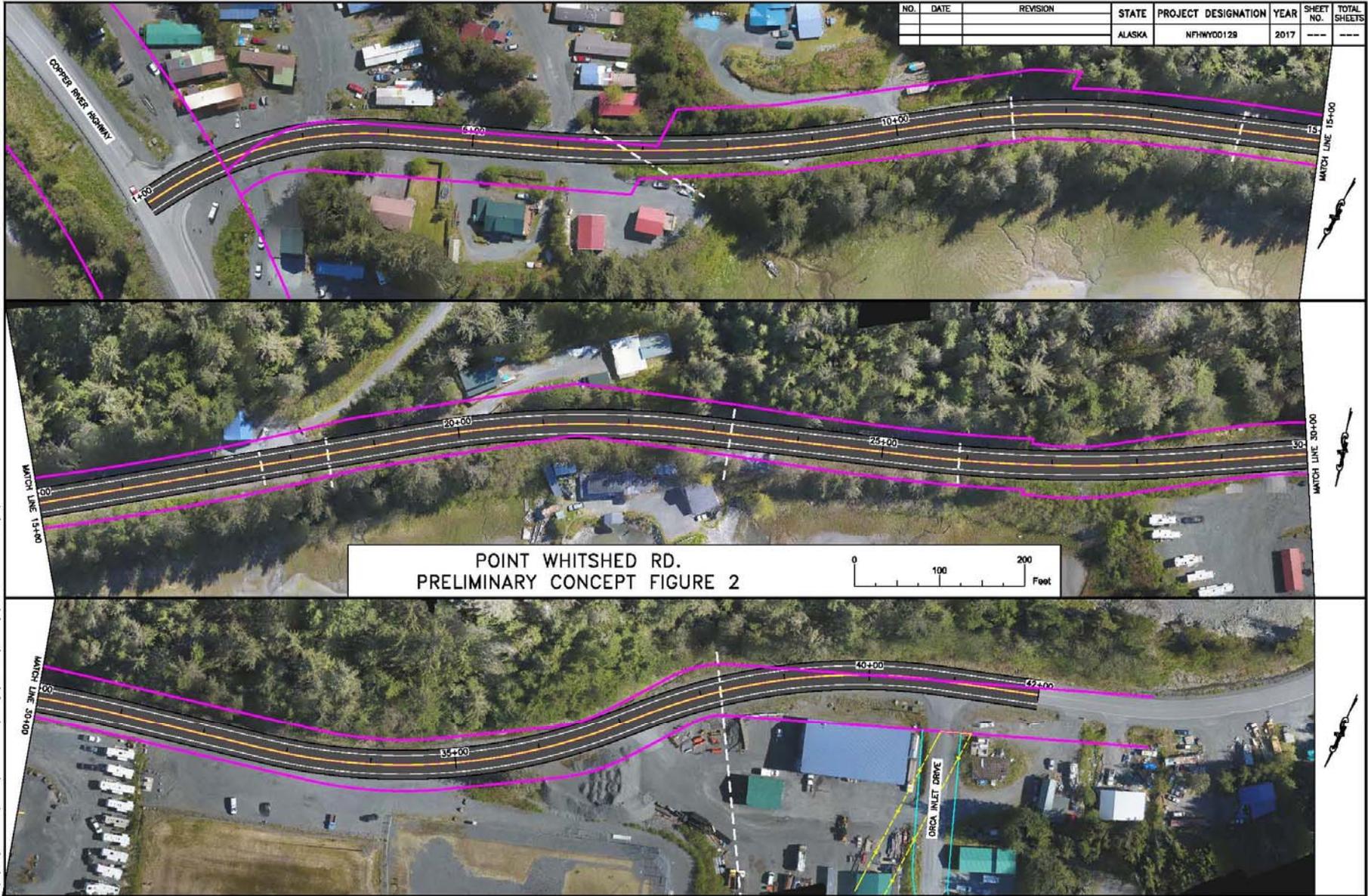
Need

Whitshed Road is narrow and lacking shoulders in some areas causing non-motorized users to share the 11-foot paved travel lanes or trek off the paved roadway.



PRELIMINARY

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NFHWD0128	2017	---	---



POINT WHITSHED RD.
PRELIMINARY CONCEPT FIGURE 2

PLANS DEVELOPED BY STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC SAFETY, DIVISION OF HIGHWAYS, 2201 FIFTH AVENUE, ANCHORAGE, AK 99515 (907) 465-3200



Why use CMGC for this project?

- The narrow Right-of-Way combined with the exceptionally steep rock topography beyond the paved road surface limits the physical room to fit new pedestrian accommodations and accommodate construction activities while maintaining traffic.
- Your design ideas and construction expertise is needed to develop a constructible design.



Project Goals

- Develop an approved Environmental document
- Develop a constructible, cost effective design that fulfills the project's purpose
- Minimize ROW and utility impacts
- Minimize temporary and permanent construction impacts
- Identify construction obstacles
- Identify ways to reduce or eliminate construction risks, change orders and claims



CMGC Goals

- Create a collaborative owner/contractor relationship
- Share and transfer knowledge
- Identify, mitigate, and minimize risk
- Support innovation
- Improve design constructability
- Optimize the project schedule
- Meet budget goals



Innovations

Project **challenges provide opportunities.** What innovations do you have for:

- Providing non-motorized accommodations in a narrow corridor
- Limiting ROW needs and impacts
- Rock excavation
- Drainage improvements and culvert replacements
- Reducing impacts to local residents and traffic
- Finding efficiencies
- Reducing future maintenance costs
- Other challenges you see



Risk Allocation

Challenges also includes risks. Identifying, assessing and managing/mitigating risks during design can avoid or minimize disputes, change orders, increases in project costs and schedule delays

Known risks for this project include:

- Narrow right-of-way and project corridor
- Steep rock topography adjacent to the roadway
- Underground utility conflicts
- Traffic Control
- Project Constructability



Current Schedule

- CMGC Stage 1 (Design) Notice to Proceed – Dec. 2018
- Approved Environmental Document – 4th Quarter 2019
- Approved Design Study Report – 2nd Quarter 2020
- Review PS&E – 4th Quarter 2020
- Final PS&E – 2nd Quarter 2021
- Notice to Proceed Stage 2 (Construction) – 3rd Quarter 2021
- Construction Substantial Completion – 3rd Quarter 2022



ADOT&PF's CMGC Experience

- **Successfully** used on Parks Highway: Riley Creek Bridge Replacement
- **Underway:**
 - University Avenue Reconstruction, Fairbanks
 - Parks Highway MP 231 Enhancements, McKinley Village
 - Tok Cutoff MP 38-50



CMGC Overview

- Introduce Innovation
- Promote Transparency
- Demonstrate Accountability
- Create Efficiencies



CMGC Team Approach

- **Project Development Team:**

- Owner (ADOT&PF)
- Designer (ADOT&PF)
- Independent Cost Estimator (ICE)
- Contractor (CMGC)





Project Development Team

- **ADOT&PF Design**

- Russell Johnson, P.E., Design Project Manager
- Duane Davis, P.E., Lead Design Engineer

- **ADOT&PF Construction**

- David Arvey, P.E., Construction Project Manager

- **ADOT&PF Contracts**

- Barbie Tanner, P.E., Contracts Engineer



Project Development Team

- **CMGC Assistance - Michael Baker International**
 - Derek Christianson, P.E., CMGC Lead
 - Karin McGillivray, CMGC Facilitation
 - Anne Brooks, P.E., Contractor Outreach Coordinator
- **Independent Cost Estimator (ICE) – Stanton Constructability**
 - Ed Jones, Lead Estimator
 - JC Wheelwright, Civil Estimator



Project Development Team

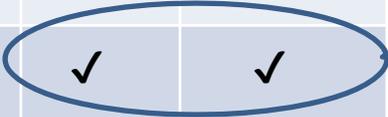
- **CMGC Contractor (Your team here!)**
 - Who will be your **Contract Manager** ... ???
 - Who will be your **Project Manager** ... ???
 - Who will be your **Project Superintendent** ... ???
 - Who will be your **Cost Estimator** ... ???



Procurement Comparison

	Design-Bid Build		Design Build		CMGC	
	Owner	Contractor	Owner	Contractor	Owner	Contractor
Preliminary Design	✓		✓		✓	
Detailed Design	✓			✓	✓	✓
RFP/Bid/TMP	✓	✓	✓	✓	✓	✓
Construction		✓		✓		✓

CMGC requires collaboration during detailed design



RMJ1

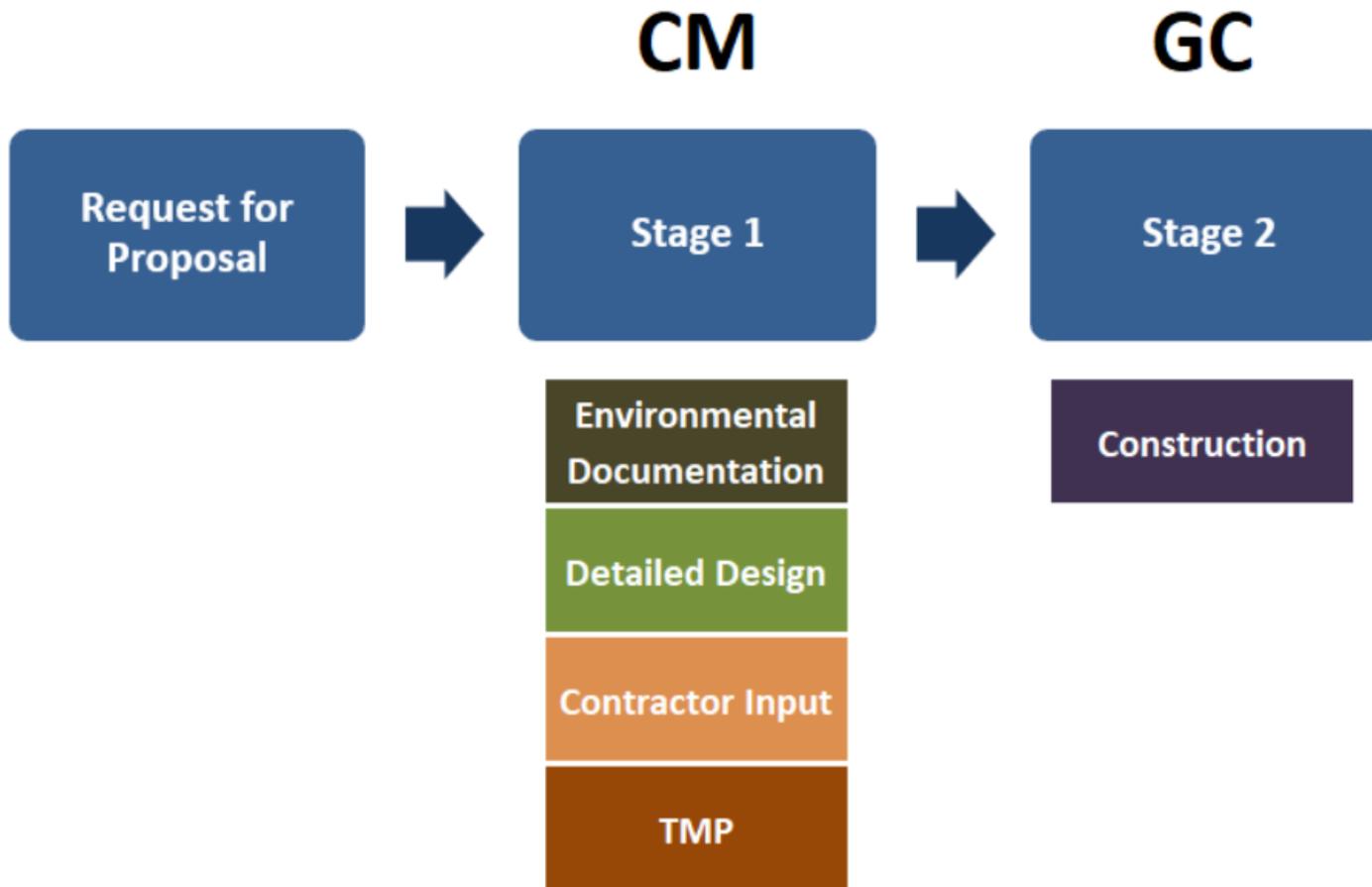


CMGC Development Stages

Major Tasks & Milestones	2018				2019				2020				2021				2022			
	Q1	Q2	Q3	Q4																
RFP/CMGC Selection				●●																
Environmental Documentation				●	●	●	●	●												
Detailed Design											●	●	●	●	●	●				
Contractor Input				●	●	●	●	●	●	●	●	●	●	●	●	●				
Theoretical Maximum Price															●	●				
Construction															●	●	●	●	●	●



Project Development Stages





Stage 1: Preconstruction Services

Stage 1

Environmental
Documentation

Detailed Design

Contractor Input

TMP

- **Collaboration** - Contractor provides design assistance through collaboration with DOT&PF including:
 - Design innovations and efficiencies
 - Identifying construction impacts
 - Constructability reviews
 - Cost estimates and project pricing
 - Identifying and mitigating risks
 - Permitting assistance



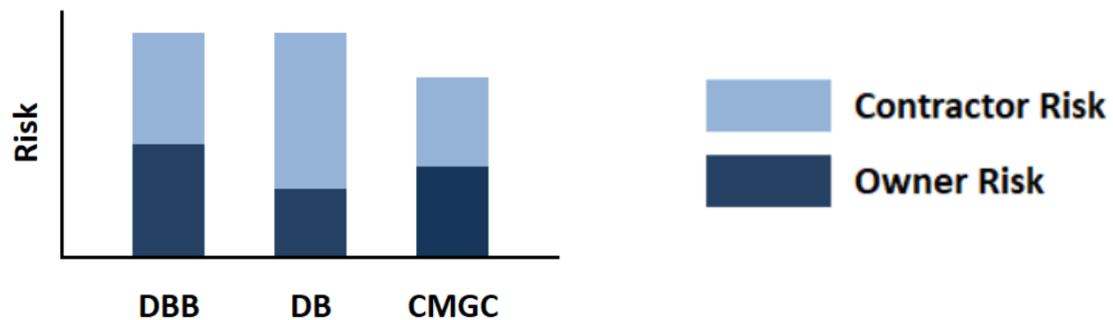
Stage 1: Preconstruction Services

Stage 1



Risk Mitigation:

- Identify, track and eliminate risk
- Risks can be investigated and eliminated or minimized through collaboration with contractor
- Owner still retains control over design and contract administration





Stage 1: Preconstruction Services

Stage 1

Environmental
Documentation

Detailed Design

Contractor Input

TMP

- **Value Added:**

- Construction impacts identified in advance assist with permitting and defining right-of-way needs
- Risks identified in advance reduce the likelihood of change orders and claims for overall project cost savings
- Maximizes innovation and efficiencies
- Improved quality with invested contractor as partner/collaborator



Stage 1: Preconstruction Services

Stage 1

Environmental
Documentation

Detailed Design

Contractor Input

TMP

- **Schedule:**

- Permitting assistance from contractor on specific means/methods
- Enhanced utility coordination, early identification of utility impacts and relocations
- Develop construction sequencing and schedule



Stage 1: Preconstruction Services

Stage 1

Environmental
Documentation

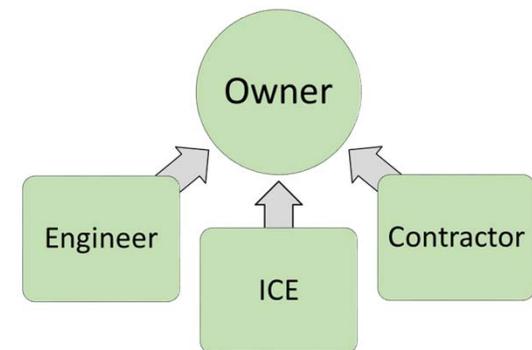
Detailed Design

Contractor Input

TMP

Fair price strategy used to arrive at TMP

- Engineer's estimate
 - Typically based on State averages
- Contractor Estimate
 - Based on production rates & unit price
- Independent Cost Estimate (ICE)
 - Cost validation
 - Reflects current market conditions





Stage 1: Preconstruction Services

Stage 1

Environmental
Documentation

Detailed Design

Contractor Input

TMP

- DOT&PF and Contractor negotiate Theoretical Maximum Price (TMP):
 - If agreement is reached – proceed to Construction
 - If agreement is not reached – proceed to advertise for Bids



Stage 2: Construction

Stage 2

Construction

- Begins with acceptance of Theoretical Maximum Price
- Procure materials, provide labor, equipment and supervision, and manage subcontractors to complete work



Post Construction Evaluation

- Innovation successes, failures & missed opportunities
- Risks encountered during construction
- Change orders & claims
- TMP vs. final construction costs
- Changes to original construction schedule



RFP

Request for Proposal

- ✓ RFP to select CMGC began advertising October 22, 2018
- ✓ 5 weeks to prepare response
- ✓ Proposals due November 26, 2018
- ✓ CMGC selection December 2018
- ✓ Opportunities available for subcontractors



RFP

Request for Proposal

- Part A – Request for Proposal
- Part B – Submittal Checklist
- Part C – Evaluation Criteria
- Part D – Proposal Form, Certification of Eligibility,
- Pre-Audit Statement
- Indemnification and Insurance
- Proposed Statement of Services



RFP

Request for Proposal

Part C in this CMGC RFP has two sections that require responses in submitted proposals:

- Section I - Technical Proposal
- Section III – Price

Responses are not required for criteria with a Weight of “0”



RFP

Part C - Section I Technical

- 15 page maximum written narrative responding to weighted criteria
- Section I Weighted Criteria:
 - Objectives & Services (15% weight)
 - Project Risks (20% weight)
 - Innovation (20% weight)
 - Management & Proposed Team (10% weight)
 - Past Performance (10% weight)
 - Distinct & Substantive Qualifications (10% weight)

Responses must be specific and directly related to the Contracting Agency's Proposed Statement of Services (Appendix B of the RFP)



RFP

Part C - Section III Price

- Labor Billing Rates (5% weight):
 - Contract Management - 10% of total labor effort
 - Project Management - 35% of total labor effort
 - Project Superintendent - 35% of total labor effort
 - Cost Estimating - 20% of total labor effort

Response will be scored as follows except that the **score will be zero if a rate for each listed function is not provided by an Offeror.**

$$\frac{(\text{Lowest aggregate rate from all Offerors}) \times (\text{MPP}^*)}{(\text{Offeror's aggregate rate})} = \text{Offeror's Criterion Score}$$

*MPP = Maximum Possible Points = (5) x (Number of Evaluators) x (Weight)



RFP

Part C - Section III Price

- Construction Fee Proposal (10% weight):
 - Fee expressed as a percentage and consists of **overhead, profit, and any other applicable indirect costs**
 - Profit does not need to be identified separately
 - Combine all three components to form a single fee percentage
 - Applied to all work directly performed by the prime contractor
 - A 5% fee (not the proposed fee) will be allowed for the Prime Contractor on subcontractor work or subcontractor-supplied materials
 - Joint ventures or prime/subcontractor partnerships will be treated as one entity and entitled to the proposed fee

Response will be scored as follows:

$$\frac{(\text{Lowest fee from all Offerors}) \times (\text{MPP}^*)}{(\text{Offeror's Fee})} = \text{Offeror's Criterion Score}$$

$$^*\text{MPP} = \text{Maximum Possible Points} = (5) \times (\text{Number of Evaluators}) \times (\text{Weight})$$



Opportunities for DBE

State of Alaska is Race Neutral for
Federal Highway Administration
funded Projects.

Contractors are encouraged to utilize DBEs to ensure ADOT&PF meets its overall DBE utilization program goal of 8.83% to maintain Race-Neutral status.



RFP

Q&A and Addenda

- Q&A will be posted on the RFP website as supplemental information through an addendum to the RFP:
 - May need to re-download Zip File to get supplemental information
- Only those listed on the RFP holders list will be notified of addenda (Please Register)



For more information

- **Project Manager**

Russell Johnson, P.E., ADOT&PF Design

Tel: 907-451-5059

E-mail: Russell.Johnson@alaska.gov

Fax: 907-451-5126

TDD: 907-451-2363

- **Project Web site:**

<http://dot.alaska.gov/nreg/whitshed/>

- **Procurement Web Site:**

<http://dot.alaska.gov/rfpmgr/lg.cfm>



Questions?

How can we help you provide the best proposal to ADOT&PF?

