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OF TRANSPORTATION

CONTRACTOR'S GUIDE TO MDT CM/GC PROGRAM DELIVERY

Construction Contracting Bureau
Alternative Contracting Section

April 25, 2019

OUTLINE

- Overview of the CM/GC Pilot Program
- Process for Selecting the Construction Manager
- Integration of the CM/GC Activities With The Design
- Elements of a Good SOQ or Technical Proposal
- The Interview



MDT's CM/GC PROGRAM

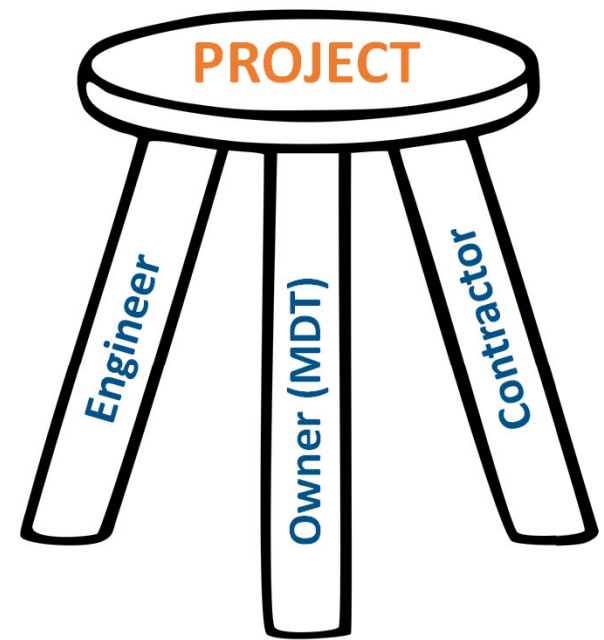


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CM/GC DEFINITION

- Construction Manager / General Contractor (CM/GC)
- Highly Collaborative project delivery
- Early Contractor involvement during the design phase offers:
 - Improved constructability
 - Reduced cost and realistic schedules
 - Locally sourced materials
 - Accurate construction means and methods

CM/GC Three-Legged Stool



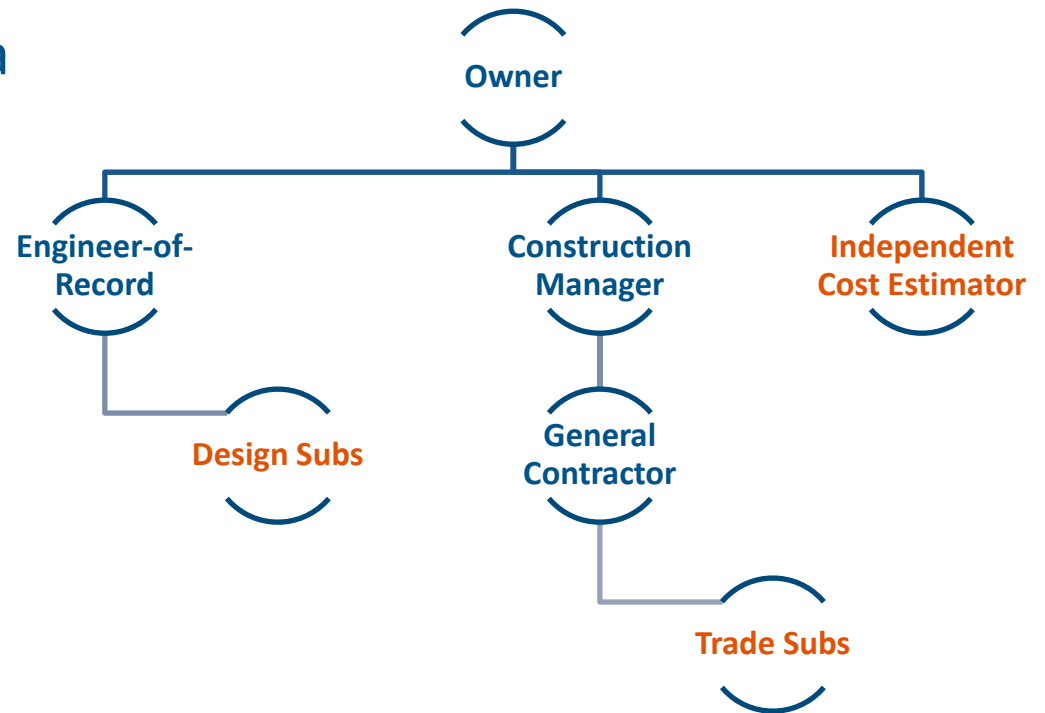
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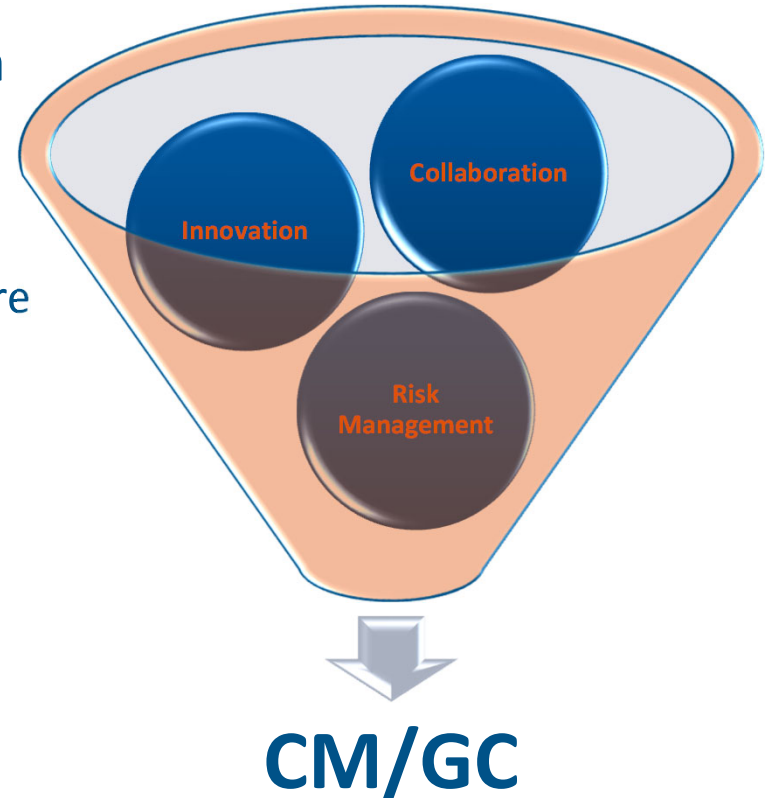
WHAT IS CM/GC?

- Two-phase contract with a General Contractor
 - Phase 1 – Preconstruction services contract
 - Phase 2 – Construction contract
- Independent Cost Estimator
- Transportation Commission awards the Construction Contract



WHY ARE WE USING CM/GC?

- Encourages collaboration and innovation
- Improves Risk Management
 - Shared risk
 - Appropriate party takes on risks that they are best-equipped to manage
- Reduces errors and omissions → less change orders
- Advantageous for complex projects
- Another tool in the toolbox
 - Majority of projects will still be delivered Design-Bid-Build



HIRING THE CM/GC

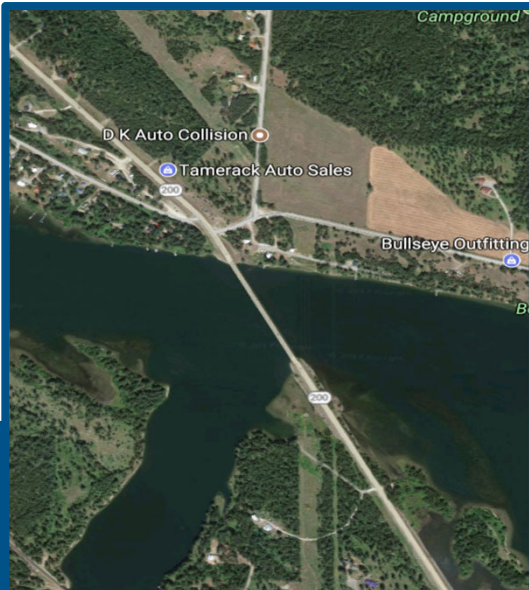
- Hiring the CM/GC (MCA 18-2-503)
 - Two part process
 - Request For Qualifications (RFQ) → State Of Qualifications (SOQ)
 - Request For Proposal (RFP) → Technical Proposal (TP)
 - State Agencies must consider **project costs** when awarding project
 - **CHALLENGE:**
 - Very limited design information available at time of Contractor RFQ/RFP
 - What do we ask the Contractor to price as a part of their proposal?
 - » Fixed fee markup
 - » Unit price on major bid item
 - » Lump sum bid for completion of early work package

CM/GC PROJECT SELECTION

- 2017 Legislature approved 4 project pilot program
- 3 of 4 projects selected
- 1 additional project to be selected
 - Multiple options for project types
 - Timing of project delivery
 - Local Contractors
 - MT Subcontractors
- MDT's "Project Delivery Selection Process"

CLARK FORK – 1M NW TROUT CREEK

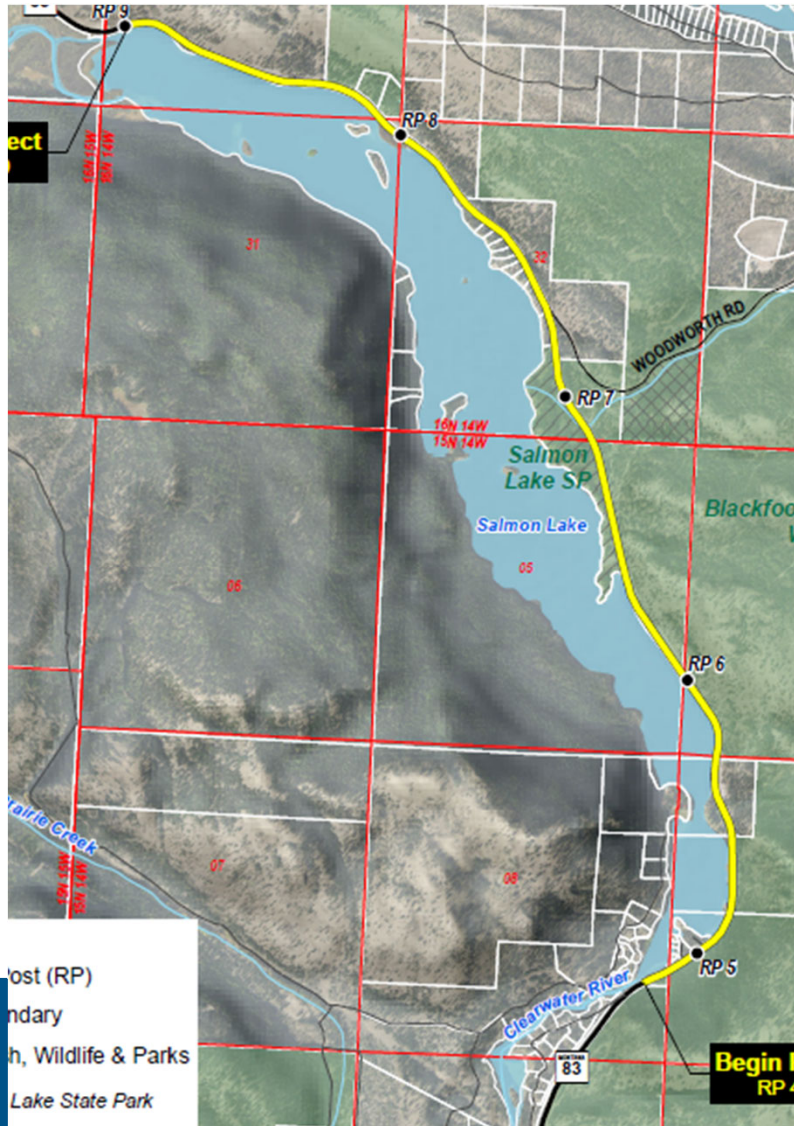
- MDT's first CM/GC project:
 - Clark Fork – 1M NW Trout Creek, UPN 8022000
 - Major Bridge Rehabilitation without added capacity
 - Replace bridge deck
 - No feasible detour, must maintain traffic throughout construction
 - Significant site constraints
 - Major utilities in vicinity of structure



– TENTATIVE TIMELINE:

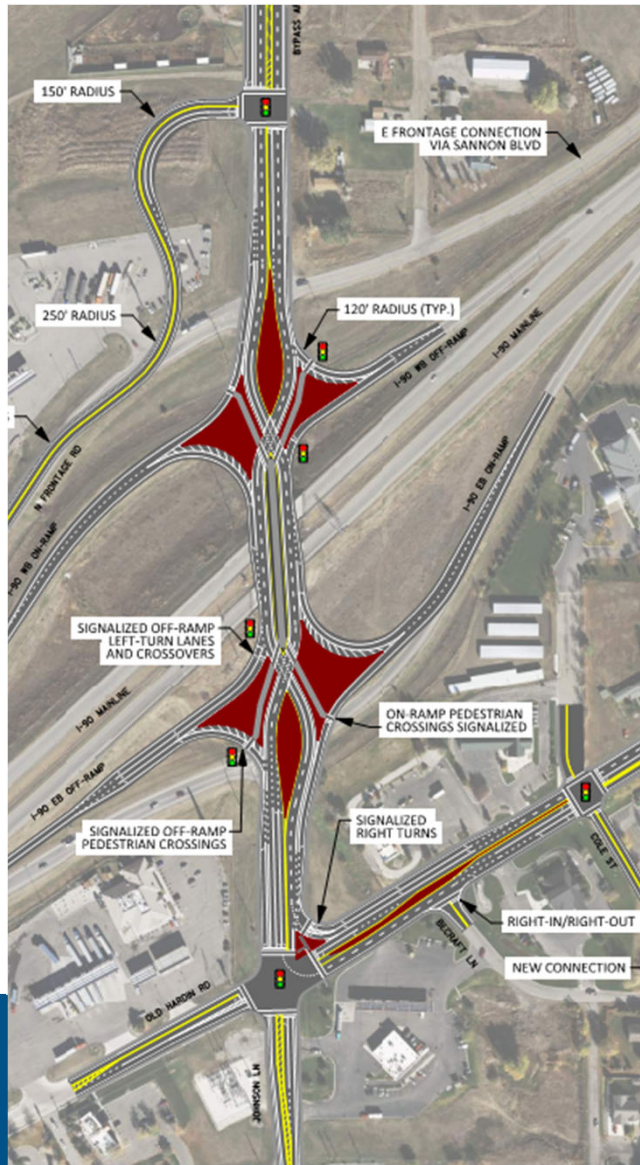
- Selected Design Engineer – May 2018
- Select Construction Manager – December 2018
- Currently working through Design – 2019
- Anticipate Construction – 2020

SALMON LAKE



- MDT's second CM/GC project:
 - Salmon Lake, UPN 1233003
 - Roadway reconstruction
 - Significant geotechnical features
 - Maintenance of traffic issues
 - TENTATIVE TIMELINE:
 - Transition Design Engineer – Spring 2018
 - Advertised for Construction Manager – February 2019
 - Select Construction Manager – May 2019
 - Anticipated Design time – 2019/2020
 - Anticipated Construction – 2021

JOHNSON LANE INTERCHANGE - BPP



- MDT's third CM/GC project:
 - Johnson Lane IC, UPN 4199007
 - I-90 interchange reconstruction
 - Diverging diamond interchange
 - Maintenance of traffic issues
 - TENTATIVE TIMELINE:
 - Transition Design Engineer – Spring 2019
 - Advertised for Construction Manager – April 2019
 - Select Construction Manager – July 2019
 - Anticipated Design time – 2019/2020
 - Anticipated Construction – 2021



INTEGRATION OF THE CM/GC ACTIVITIES WITH THE DESIGN



TEAM INTEGRATION

- Team Collaboration
- Need for Transparency
- Scope Development
- Schedule Management
- Budget and Risk Control
- Project Quality





ELEMENTS OF A GOOD PROPOSAL



SECTION I – PROJECT TEAM

- The cover letter – pros and cons
- Work from an outline – create a Theme
- Avoid being wordy – “Just the Facts”
- The Organization Chart
- Matrices can be very useful
- Be consistent
- Pick good projects – tie to team
- Typos and grammar errors are deadly



SECTION II – STRATEGIC PROJECT APPROACH

- Follow the RFP organization
- Put yourselves in MDT's shoes – what is important to us
- Tables can be very useful
- Clearly address the project goals and challenges
- It is helpful to illustrate you've done this before
- Tie approach to design milestones
- How are you going to manage risk and innovations
- Be creative with ideas – don't limit yourselves



SECTION II – STRATEGIC PROJECT APPROACH (CONT)

- Consider how you will address early work packages
- Can you provide value added services or tools?
- Do not neglect safety
- MDT is interested in how you manage quality
- Graphics need to make sense and tell a story
- Typical sections/graphics/designs are valuable if done right



SECTION III – APPROACH TO CM/GC PROJECT DELIVERY PROCESS

- Hit on the three main points-Collaboration/Risk Mgmt/Decisions
- Mirror Section I – don't leave anyone out
- Clearly convey the specific benefits of key staff
- How will you reduce cost and manage risk? Explain
- Describe how the CM will help guide the decision analysis and resolutions



SECTION IV – PROJECT INNOVATIONS AND RESOURCES

- Be creative and also open minded
- Generate a metric that gauges impacts of the innovation
- Provide examples and outcomes if possible
- How is your team structured to brainstorm/evaluate/track innovations
- Are innovations right for this site and conditions?





ELEMENTS OF A GOOD INTERVIEW



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THE INTERVIEW

- 1/3 of the overall technical score – win or lose
- Be relaxed – Practice Practice Practice
- You will be our partner – start with this interview
- Avoid one person dominating discussion
- Clean handoffs – don't interrupt/show respect
- Its OK to amend or correct. We all make mistakes
- Be cognizant of your body language
- Use handouts wisely



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THE INTERVIEW (CONTINUED)

- Discuss the project challenges and your approach
- Address the key elements of your proposal – expand on it
- Avoid badmouthing past clients, subcontractor or engineers
- Tell us how you communicate internally and with the team
- Key words have value – transparency, communication, problem solving, own risk, etc.
- Ask us questions
- Show excitement!





THE SELECTION PROCESS





CM/GC Total Proposal & Interview Scoring

Project No.: **STPB BH 6-1(142)28**

Control No.: **8022000**

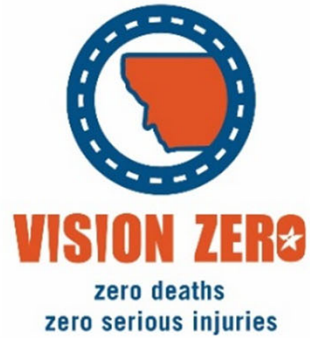
120000 Total Score Available

Project Name: **Clark Fork - 1M NW Trout Creek CM/GC Project**

REVIEW COMMITTEE MEMBER	COMPANY													
	Contractor A							Contractor B						
	Technical Proposal				Interview			Technical Proposal				Interview		
SCORING CRITERIA NO.	1	2	3	4	1	2	3	1	2	3	4	1	2	3
Reviewer 1	7.0	8.0	8.0	8.5	9.8	10.0	9.8	9.5	9.0	9.5	8.8	7.6	7.3	7.4
Reviewer 2	8.0	7.5	7.0	8.0	9.2	9.2	8.9	9.0	8.9	9.0	9.5	8.0	7.4	7.4
Reviewer 3	7.5	7.9	7.5	7.8	9.0	9.0	8.7	9.0	8.8	9.0	9.2	8.0	8.0	7.5
Reviewer 4	6.0	6.5	7.5	8.0	9.2	9.3	9.5	9.2	9.5	9.5	8.0	8.8	8.0	8.0
Reviewer 5	7.0	7.0	6.5	6.8	9.5	9.0	9.0	8.5	9.0	8.5	8.6	7.0	6.5	6.0
Reviewer 6	8.0	8.0	7.3	8.0	9.5	9.5	9.5	10.0	10.0	9.0	9.0	8.0	7.0	8.0
Reviewer 7	7.0	7.3	6.5	7.2	9.8	9.8	9.8	7.5	8.2	8.0	8.0	7.5	7.3	7.5
Reviewer 8	8.0	6.5	6.2	7.3	9.5	9.5	9.5	10.0	9.5	9.0	9.5	8.0	7.0	7.5
TOTAL/CRITERIA =	58.5	58.7	56.5	61.6	75.5	75.3	74.7	72.7	72.9	71.5	70.6	62.9	58.5	59.3
TOTAL SCORE =	96,130							102,110						
PERCENT =	80.11%							85.09%						
RANKING	2							1						
	2.0	1.5	1.8	1.7	0.8	1.0	1.1	2.5	1.8	1.5	1.5	1.8	1.5	2.0



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CM/GC Price Scoring

Project No.: **STPB BH 6-1(142)28**

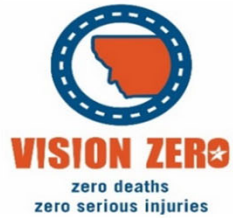
Control No.: **8022000**

Project Name: **Clearwater Junction N**

PROPOSER	Construction Phase Multiplier (%)	Average Multiplier (%)	Closest to the Average Score	
Contractor A	10.00	10.8	0.9921	2
Contractor B	9.65		0.9886	3
Contractor C	11.50		0.9929	1
Contractor D	12.00		0.9879	4



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CM/GC Best Value Scoring

Project No.: **STPP 83-1(35)5**

Control No.: **1233003**

Project Name: **Clearwater Junction N**

PROPOSER	Technical Proposal and Interview Score	Construction Phase Multiplier Closest to Average Score	Best Value Score
Contractor A	96130	19.8400	460.89
Contractor B	102110	19.7700	463.47
Total possible points for Proposal and Interview:			120000
Proposal and Interview Weight			80
Price Proposal Weight			20

- 80 points – Technical Proposal

$$\frac{\text{Firm's Technical Proposal Score}}{\text{Total Points Available}} * 80 = \text{Technical Proposal Awarded Points}$$
- 20 points – Price Proposal

$$\frac{100 - |\text{Average Multiplier} - \text{Proposer Multiplier}|}{100} * 20 = \text{Price Proposal Awarded Points}$$
- Best Value Score

$$\text{Technical Proposal Awarded Points} + \text{Price Proposal Awarded Points} = \text{Total Points}$$





QUESTIONS & COMMENTS

