



ALTERNATIVE CONTRACTING METHODS



EDC2 D-B Presenter

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- EDC 2 D-B Technical Lead
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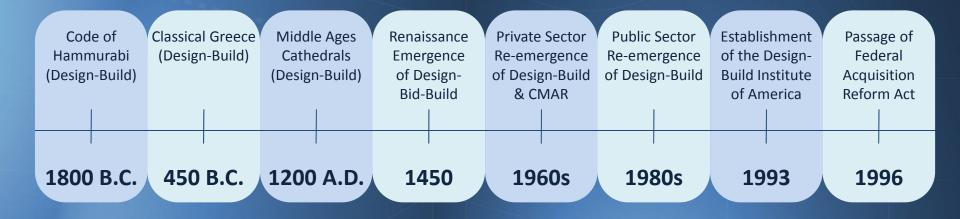


Agenda

- EDC II ACM Overview
 - MAP 21 Provisions
- D-B Overview
- The D-B Process
- The Benefits of B-B
- Keys to D-B Success
- Q&A



Historical Perspective Construction Project Delivery















FHWA Procurement Requirements and SEP-14



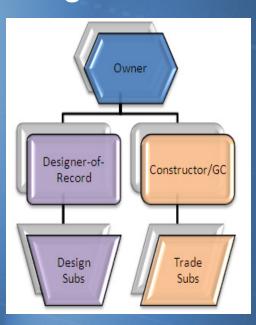
- 1938 Federal Highway Act required competitive bidding
- 1968 Federal Highway Act revised Title 23 USC to award construction contracts, "...only on the basis of the lowest responsive bid."
- February 2, 1990, FHWA establishes "Special Experimental Project No. 14 – Innovative Contacting"
- 1998 TEA-21 authorizes design-build
- 2012 MAP-21 S. 1303 authorizes CMGC



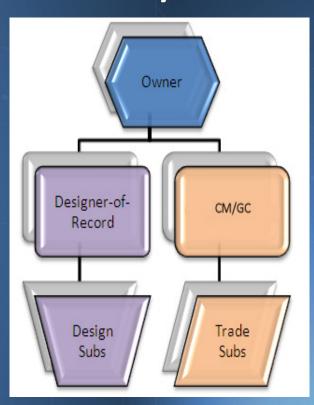


PROJECT DELIVERY METHODS

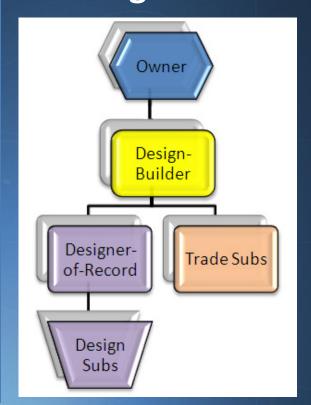
Design-Bid-Build



CM/GC



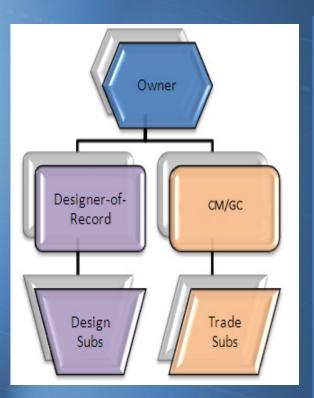
Design-Build





Shortening Project Delivery Initiative ALTERNATIVE CONTRACTING METHODS

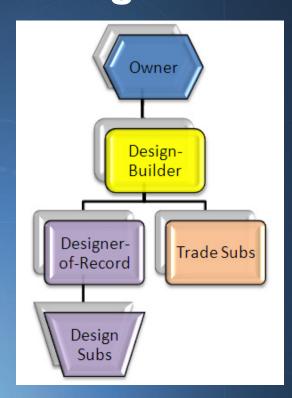
CM/GC



ATC



Design-Build





MAP-21 - Key Provisions

Section 1303 (pertains to CM/GC)

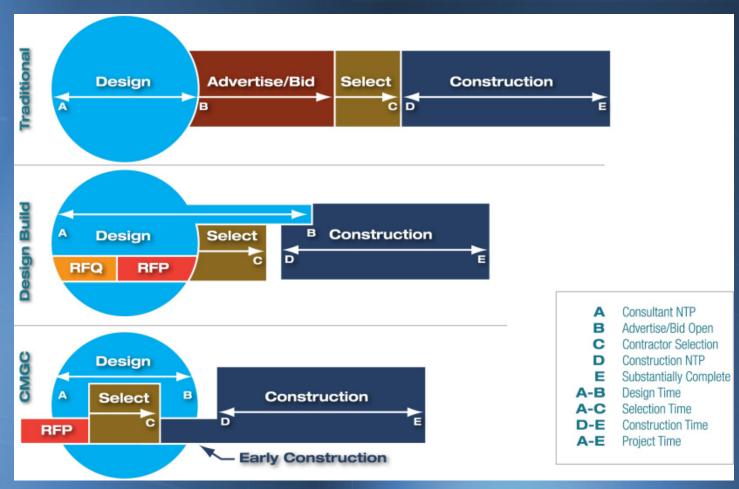
- Allows for the use of CM/GC contracting
- SEP-14 approval no longer required after October 1, 2012

Section 1304 (pertains to CM/GC, D-B, and ATC)

Increased Federal share for innovative project delivery methods



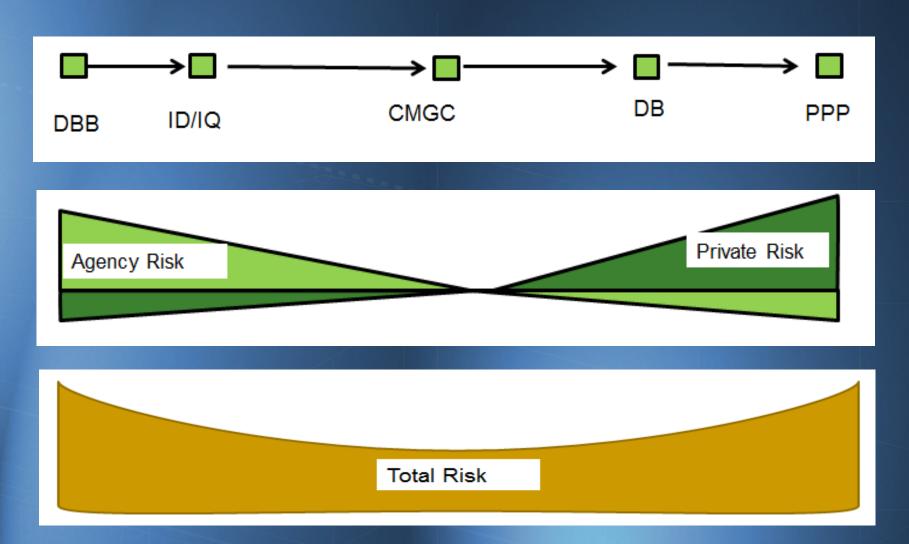
SCHEDULE/TIMELINE COMPARISON





PROJECT DELIVERY OPTIONS

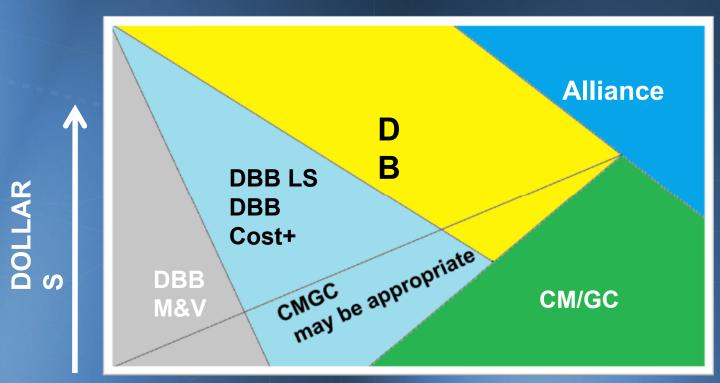
Choosing the Delivery Method





Shortening Project Delivery Initiative ALTERNATIVE CONTRACTING METHODS

New Zealand Selection Model



Complexity, Risk, Potential for Innovation, Flexibility Required, Client Involvement, Supply vs Demand, Program Constraint



CONTRACTING METHODS

All contracting agencies should have a project delivery "toolbox" including:

- Design-Bid-Build +ATC
- Design-Build *
- Construction Manager/General Contractor * (Construction Manager at-Risk)
- Alliance Contracting
- Best-Value
- Performance Contracting
- ID/IQ contracting
- Other
- + ATC applies to all Delivery Methods



www.dot.gov/everydaycounts



FHWA EDC-II

Alternative Contracting Methods

Core Team

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Alternative Contracting Methods Team Lead

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Technical Programs Manager / Construction Quality Engineer, FHWA-MA

DAVID UNKEFER

Construction & Project Management Engineer FHWA-RC



U.S. Department of Transportation

Federal Highway Administration



DESIGN/BUILD CONTRACTING



Agenda

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- The D-B Process
- The Benefits of B-B
- Keys to D-B Success
- Q&A



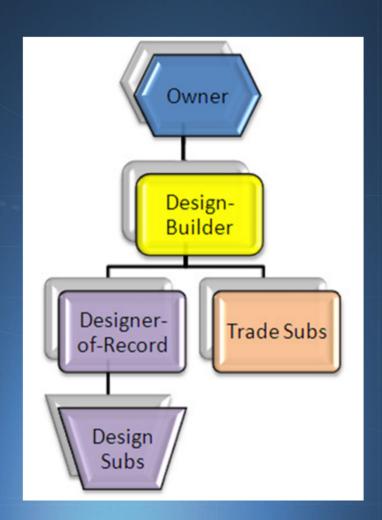
Design-Build





What is D-B?

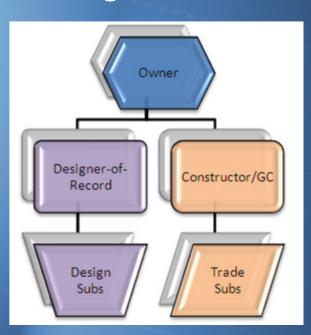
- "One Step" or "Two Step" competitive negotiation
- Proposals based on definitive performance criteria
- Uses Request for Proposals instead of Invitation for Bids procedures
- Awards on Best Value basis



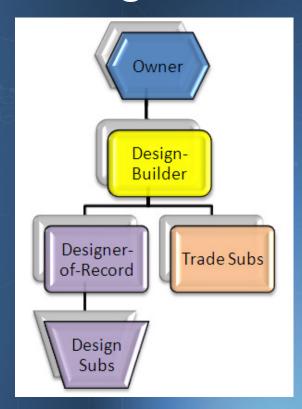


Alternative Contracting Methods

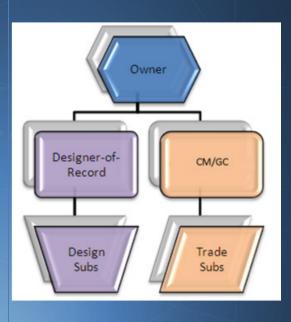
Design-Bid-Build



Design-Build



CM/GC





Which Tool from the Toolbox?

- You have a complex or urban job with third- party inputs, staffing issues, D-B designer issues? GO CM/GC
- You have design and not complex paving or rehab jobs? GO D-B-B
- You want speed and have limited staff?
 GO D-B instead





D-B Project Delivery





D-B Contract Components

Project Delivery Method

DBB; CMGC; DB

Procurement Procedure

Low Bid; Best Value; Qualifications-based; Sole Source

Contract Payment Provision

 Lump Sum; Fixed Price; Cost Plus Fee; Cost Reimbursable

Trend in Transit and Airports is

DB-QBS-GMP



Request for Qualifications

- Phase I of Two Phase Procurement Process
 - Phase I Request for Qualifications (RFQ)
 - Phase II Request for Proposal (RFP)
- Seeks Statement of Qualifications (SOQ)
 from Prospective "DB Teams"
- Establishes "Short-List" of DB Teams



RFQ Process

- STEP 1 Agency Prepare & Issue RFQ
- STEP 2 Agency Receive DB Team Questions
- STEP 3 DB Teams Submit SOQs
- STEP 4 Agency Select Short-List of DB Teams



Request for Proposal

- Phase II of Two Phase Procurement Process
 - Phase I Request for Qualifications (RFQ)
 - Phase II Request for Proposal (RFP)
- Seeks Proposals from Phase I Short-Listed "DB Teams"
 - Technical Proposal
 - Price Proposal





Request for Proposal Process

- **STEP 1 Agency Prepare & Issue RFP**
- STEP 2 Pre-Proposal Meeting (optional)
- **STEP 3 Agency Receive DB Team Questions**
- **STEP 4 DB Teams Submit Proposals**
- **STEP 5 Agency Review and Score Technical Proposals**
- STEP 6 Agency Hold Oral Presentations (optional)
- STEP 7 Agency Select Successful DB Team



Evaluation Process Progression

Submit Technical and Price Proposals

Owner Evaluates/Scores Technical Proposal

Owner Opens Price Proposal

Owner combines Technical and Price Proposals

Recommendation made to Selection Official

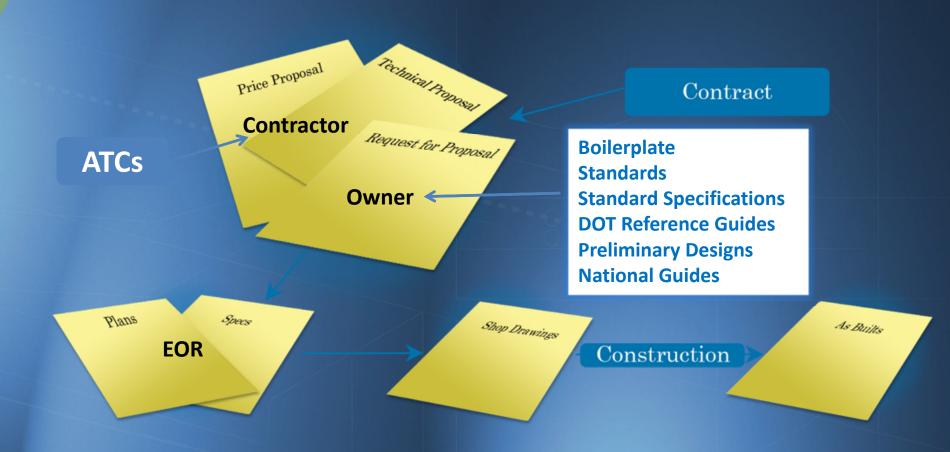
Selection Official confirms selection

Contract Awarded

Oral interviews could be part of process – Let everyone know how



Design-Build Contract Model





D-B Team Structures





D-B Project Delivery



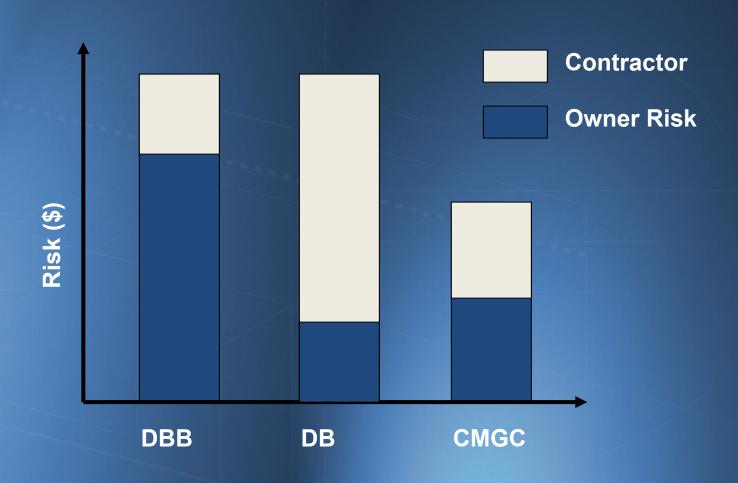


Benefits of D-B

- Time savings usually a fixed date
- Fixed Price (Cost Controls)
- Constructible Designs
- Help with staffing issues
 - Expertise
 - Numbers of staff
- Money committed
- Less Risk (Allocated to Appropriate Party)



Risk Allocation





D-B Project Delivery





Keys Points to Remember

- Design-Build has been around for a long time
- 2. Design-Build is a tool
- 3. Most owner use D-B for time savings/fixed schedule
- 4. D-B is flexible in Procurement and Payment
- 5. D-B is different for owners to administer



Why Use D-B Contracting?

This method offers significant advantages and benefits:

- Better designs = value engineering savings
- Increased opportunities for time and cost savings
- Increased innovation and creativity
- Owner control of the design
- Competitive process leads to "Best Value"



D-B Contracting



Bottom Line:

The D-B contracting method is a good option for many transportation projects, where the qualifications and cooperation of the contractor are critical to the success of the project.



D-B Project Delivery





D-B Support & Available Tools

- Federal-Aid Essentials for Local Public Agencies
 http://www.fhwa.dot.gov/federal-aidessentials/catmod.cfm?id=81
- General Information
 - "Current Design-Build Practices for Transportation Projects: A Compilation of Practices by the Transportation Design-Build Users Group" June 2009
 - Design-Build Effectiveness Study Report to Congress as required by TEA-21, Section 1307(f)
 - Minnesota DOT's March 16, 2006 Report: Economic and Risk Assessment of Accelerating the ROC 52 Design and Construction Process (.pdf, 3.2 mb)



D-B Tools

- Design-Build Contracting for Highway Projects
 A Performance Assessment, May 2005, Tom Warne and Associates, LLC
- Utility Involvement in South Carolina Design-Build Projects
 March 2005 FHWA document.
- Design-Build Contracts and Right-of-Way
 a 2001 document prepared by the FHWA Office of Real Estate Services
- Design-Build Contracts and Right-of-Way Activities
 a 2000 document prepared by the FHWA Office of Real Estate Services
- 2002 Survey on the Current Use of Design-Build by SAIC for Illinois DOT
- Prerequisite for Design-Build Considerations for Implementing Design-Build Contracts in the Federal-aid Highway Program by L. Gary Byrd
- Utah State University Innovative Contracting Home Page provides work plans, evaluations and other information collected from the FHWA's Innovative Contracting Program SEP-14.
- "Innovative Project Delivery Methods for Infrastructure An International Perspective" (pdf, 665 kb) Finnish Road Enterprise



D-B Tools

Additional Training?

- Design-Build Institute of America
- National Transit Institute
- American Society of Civil Engineers
 - Design-Build Training

Federal Publication Seminars

Design-Build Construction
 http://www.fedpubseminars.com/seminar/dbc.html



Questions?

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