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Effectively Structuring and Managing Design-Build Projects

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Overview

- 1. Introduction
- Factors Involved in Selecting the Form of Contract
- Running An Effective Design-Build Tender Process
- Risk Management and the Allocation of Risk in Design-build Tenders
- 5. The Standard Form Design-Build Contract
- Effective Management of Design-Build During Construction
- 7. Conclusion



Factors Involved in Selecting the Form of Contract

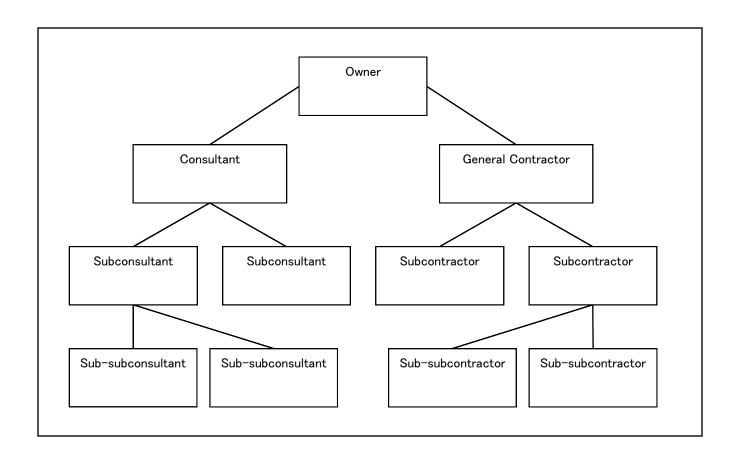
- (a) Design-Bid-Build / Stipulated Price
 - Procedure and overview of process
 - Advantages
 - Traditional and familiar structure
 - Fixed price at tender
 - Detailed control of design
 - Design team impartial
 - Competition to improve efficiency and quality



Factors Involved in Selecting the Form of Contract (cont'd)

- (a) Design-Bid-Build / Stipulated Price
 - Disadvantages
 - Extended project schedule
 - Less conducive to teamwork
 - Owner takes risk of design coordination

Design-Bid-Build/Stipulated Price Structure





(b) Design-Build

Procedure and overview of process

Advantages

- Project speed and expedited timeline
- Communication and single source accountability
 - Reduction in the number and severity of conflicts between the design and construction entities
 - Possible to agree on fixed price contract for entire project
 - Possible advantages when negotiating project financing as project has lower risk of cost overruns once price established.

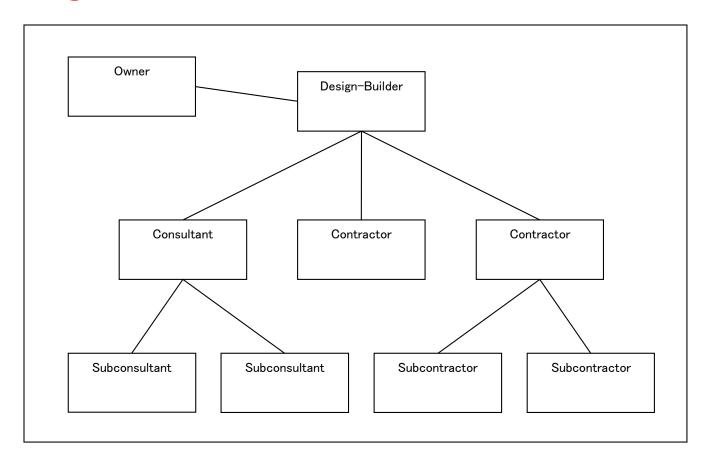


(b) Design-Build

Disadvantages

- Owner does not maintain direct control over design detail.
- Difficult to accurately price a project before design has been fully completed.

Design-Build





Running An Effective Design-Build Tender Process

- Principles for The Proper Use of Design-Build
 - Selection Process
 - Remuneration
 - Intellectual Property at the Proposal Stage
 - Standard contracts
 - Request for Proposal (RFP) Documents

What to Include in a Design-Build Tender Proposal

- Scrutinizing project details, plan to prepare deliverables
- Address each specification of owner as listed on the RFP
- Less is more: checklist of all required submittals, criteria, and timelines. Do not add excessive volume
- Attend pre-proposal conferences and ask questions
- Exhibit listing what is not included in the package of deliverables: excellent check for completeness.
- Include several items that help the team stand out
- High quality, visually appealing package
- Owners looking for "best value" solution for their project



- Role of The Consultant
 - Owner's advocate consultant
 - Design-builder's consultant



Risk Management and the Allocation of Risk in Design-build Tenders

- Significant Risk Factors
 - Owner
 - Financial Risk
 - Clarity of project definition
 - Problems with documents
 - Unknown site conditions
 - Lack of Control over Design Process
 - Lack of Control over Construction (e.g., use of materials)



Risk Management and the Allocation of Risk in Design-build Tenders (cont'd)

- Significant Risk Factors
 - Design-builder
 - Liable for overall failure of the design or any construction defects
 - Usual construction project risks
 - Change orders



Strategies and Best Practices for Risk Management

- Pre-contract period
- Understand Canadian competitive bidding law
 - Ron Engineering
- Clarify owner's expectations early
- Disclose evaluation criteria in the RFP
- Alternative Dispute Resolution
- Select design-builder with care



Strategies and Best Practices for Risk Management (cont'd)

- Strong Documents
- Strong Relationships (trust, reputation)
- Competent construction solicitor
- Assigning risks to third party: insurance and bonding



The Standard Form Design-Build Contract

- Pros and Cons of Standard form contracts
 - Pros:
 - Lower transaction costs
 - Known risk allocation
 - Faster process
 - Cons:
 - Potentially inappropriate risk allocation
 - Not project specific
 - · Key points may be missed

The Standard Form Design-Build Contract (cont'd)

- CCDC Design-Build Stipulated Price Contract, Document 14 (2000)
 - Risk allocation
 - Analysis

Effective Management of Design-Build During Construction

- Owner's responsibilities
 - Inspection to ensure compliance with contract
- Design-builder's responsibilities
 - Project management models
 - Hiring and review of subcontractors
- Construction Manager
- Program Management



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