





Types of Construction Contracts

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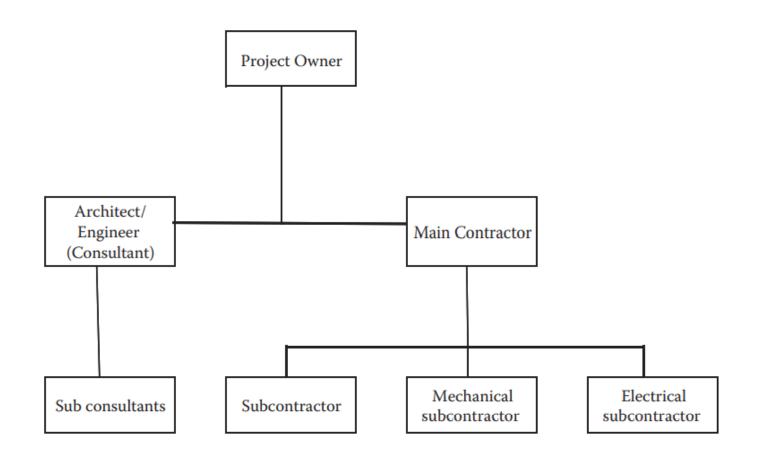


Design/Bid/Build

- Preparation of complete detailed design and contract documents for tendering
- Receiving bids from prequalified contractors
- Award of contract to successful bidder



Design/bid/build type contracting system





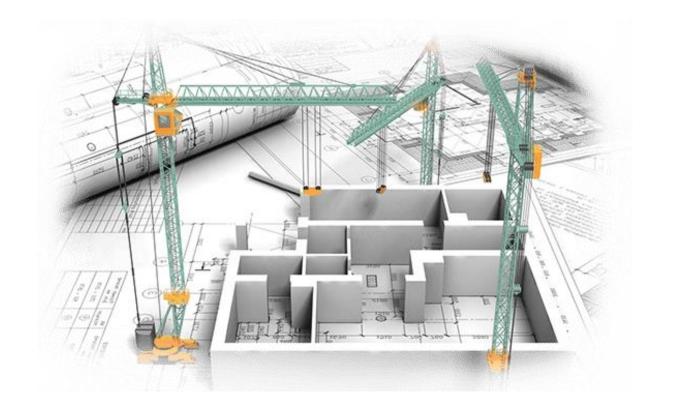
Responsibilities

- Structure, design responsibility of architect or engineer employed by the client.
- Construction primarily responsibility contractor.
- Any variation, or change, during the construction needs prior approval from the owner/client.



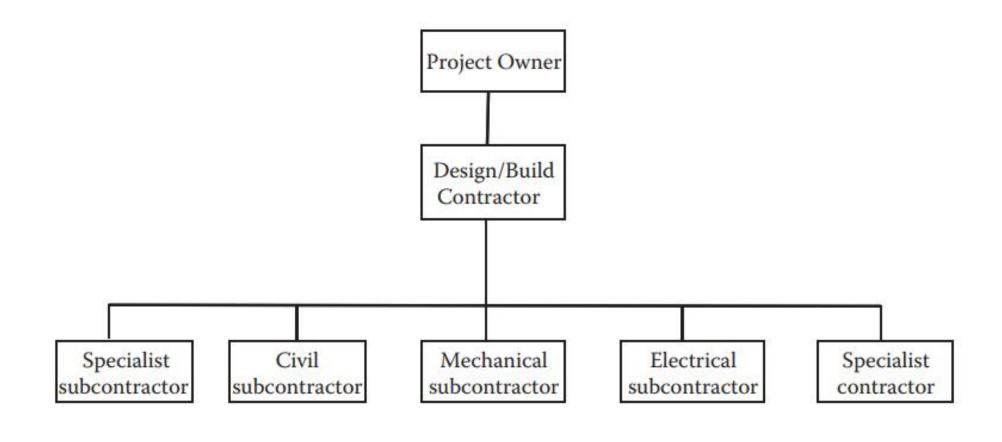
Design/Build

• The owner contracts a <u>single firm</u> to design and build the project.





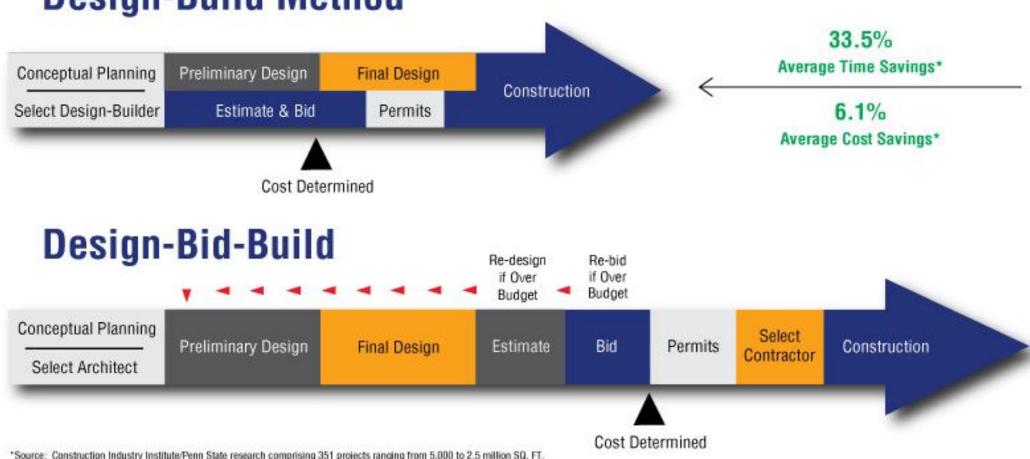
Design/build type contracting system



The Benefits of Design-Build

Best Value. Faster Completion. Reduced Cost.





*Source: Construction Industry Institute/Penn State research comprising 351 projects ranging from 5,000 to 2.5 million SQ. FT.

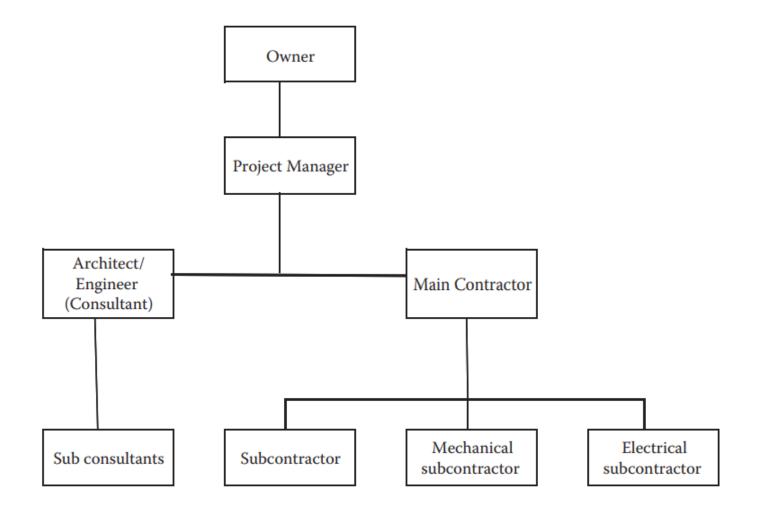


Project Manager

- A project manager contract is used when the owner decides to turn over the entire project management to a professional project manager.
- Project manager is the owner's representative and is directly responsible to the owner.
- The project manager is responsible for planning, monitoring, and managing the project.



Project manager type contracting system





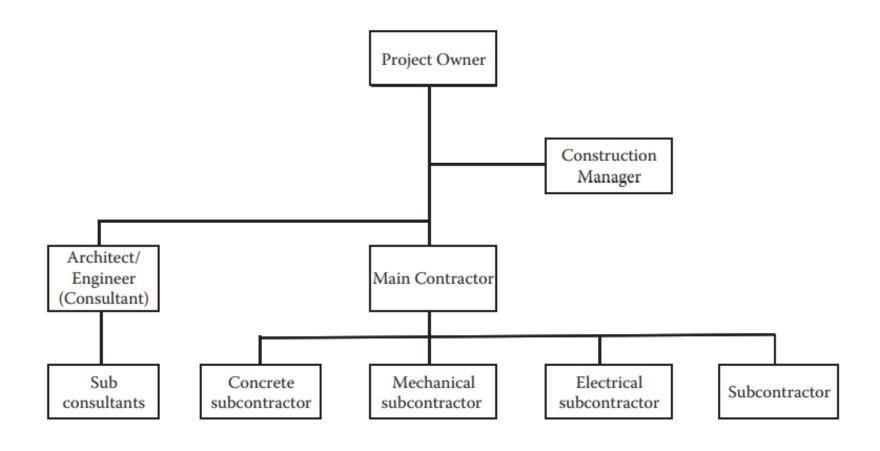
Construction Manager

• The owner contracts a construction management firm to coordinate the project and to provide construction management services.





Construction manager type contracting system

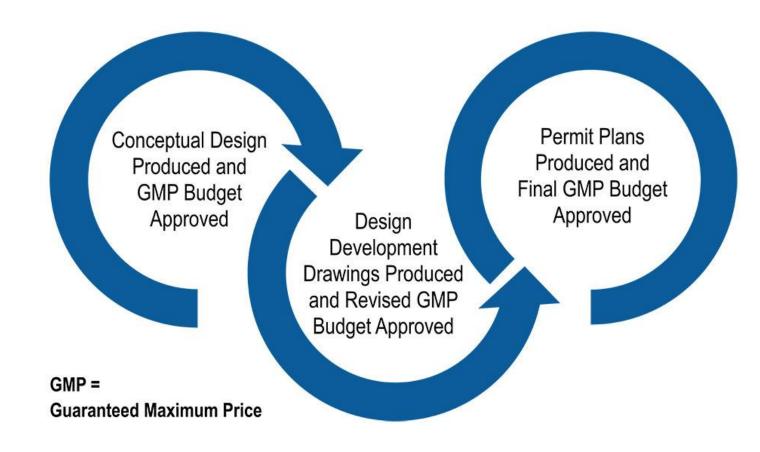




Guaranteed Maximum Price

- The contractor agrees tor a fixed fee and profit at a cost **not to** exceed pre-established max. price.
- Costs above the guarantee are absorbed by contractor.
- Saving may be reverted to the owner or shared by the owner and the contractor.



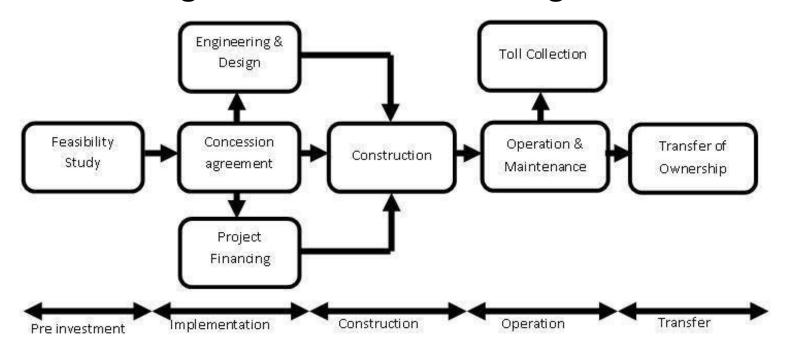


Source: https://www.fraser-construction.com/design-build



Build-Own-Operate-Transfer

• Generally used by governments to develop public infrastructure by involving the private sector in financing, designing, operating, and managing the facility for a specified period and then transferring the facility to the same government free of charge.



Source: https://sites.google.com/site/riskbotnitk/literature-revi/risk-allocation-and-cash-flow-management



Example: Millau Viaduct (France)



Photo: https://en.wikipedia.org/wiki/Millau_Viaduct#/media/File:Creissels_et_Viaduct_de_Millau.jpg



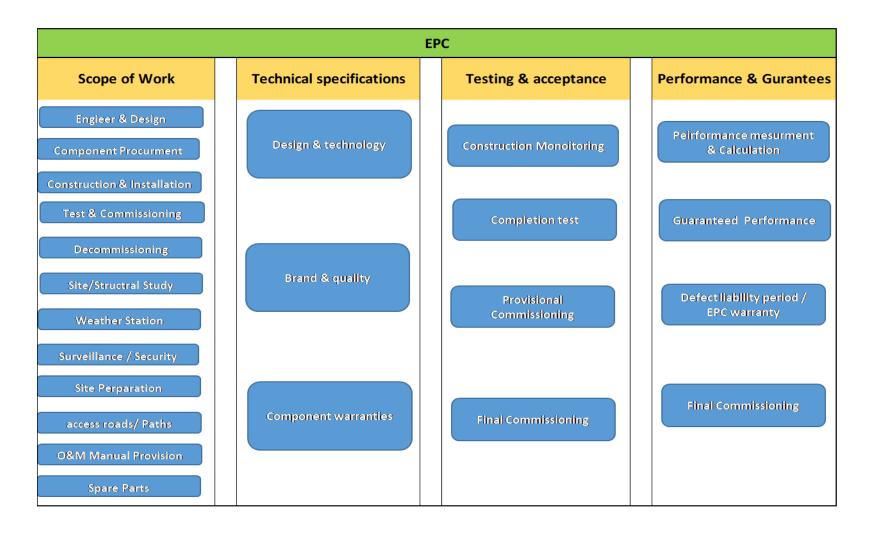
The Turnkey Contract

- The owner employs a single firm to undertake design, procurement, construction, and commissioning of the entire work.
- The firm is also involved in management of the project during the entire process of the contract.





Engineering, Procurement and Construction (EPC)



Source: http://photosunsolar.com/engineering-procurement-construction-epc/



Questions?





