



Design Build Overview

by

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Design Build Overview

- Background and Define
- Benefits
- PennDOT approach
- District approach

Design Build - Background

- Lengthy traditional contracting procedures
- The Department has initiated work on the development of policies, and procedures to implement innovative bidding techniques

Design Build - Defined

- **Design-Build**
 - a project delivery method in which the owner executes a single contract with one entity to provide both engineering and construction services instead of the traditional design / bid / build system

Design Build – Re Defined

- Pub 448 under revision
 - D/B team can now do following:
 - Utility clearance
 - R/W clearance
 - Permits (waterway, E&S etc)
 - Peer Review
- Attractive to District 8 in managing large program

Design Build – PennDOT

- PennDOT Design-Build is called **Modified Turnkey**
- Modified Turnkey:
 - Department performs some design work
 - Includes: environmental clearance, TS&L, base replacement, and MPT guidelines

Design Build – PennDOT

- Department’s standard contractor pre-qualification requirements apply
- Standard advertisement process
- Low bid method of selection

Design Build – PennDOT

- The scope of work represents the Department’s essential project expectations, and its purpose is to provide sufficient information upon which contractors can prepare bid proposals.

Design Build – PennDOT

- A Modified Turnkey project is developed in three phases:
 - 1)Preparation of PennDOT's partial design package and project advertisement;
 - 2)Selection of the Design/Build contractor via lowest responsiveness and responsible bidder proposal; and
 - 3)Project completion including design and construction.

Design Build – PennDOT

- Modified Turnkey can be applied to any type of highway or bridge construction project
- The design must be completed by a registered professional engineer and construction must be completed by a pre-qualified contractor

Design Build – Benefits

- Rapid delivery
- More efficient than traditional methods
- Shorter project durations
- Innovations through closer design / contractor relationships
- Long term decrease in admin. costs
- Involving the contractor in the design process should lead to less chance of work orders

Design Build – District

- Used projects with a well-defined scope
- Bridge Rehabilitations
- Consultant help developing the D/B Bid package
- Peer Reviews by D/ B Team
- Construction Inspection
- Publication 448 revision due out soon

Design Build – District

- Near term D/B projects
 - Waynesboro ECONS (SR 0016-009)
 - Braggtown Road Bridge rehab (SR 1007-012)
 - I-83 Bridge rehabilitations (Lake Redman& N/S)
- Future D/B projects
 - 39 Bridge rehabilitations, replacements using Bond revenues

??? QUESTIONS ???
