				TDOT Estimating Process	within PDN Stages	
		Stage 0	Stage 1 Cost Validation	Line and Grade Package	Functional Design Plans	Plan-in-Hand Plans
EMS	CONSTRUCTION ITEMS	Concept Report Estimate using template.	Validate Concept Report Estimate. - Scoping information - Statewide averages	Focus on major Items that include 80% of the costs (see below) and considers a realistic inflation % for the year the project will be let.	Estimate all Project Items.	Estimate all Project Items based on inflation, market, e
			Concept Report Estimate updated by Roadway Design Lead Engineer through Scoping Process.	Major items quantified and estimated by Discipline - Compiled by Roadway Design Lead Engineer. • Major Removals • Pavement (conservative pavement section assumptions) • Earthwork (excavation, borrow, geotech recommendation [e.g., graded solid rock, geotextiles], rock cuts) • Barrier/Guardrail • Drainage System • Structures (hydraulic and non-hydraulic) • Walls (retaining, sound) • Sign structures • TSMO (ITS, signals, and lighting)	All Items quantified and estimated by Discipline - Compiled by Roadway Design Lead Engineer.	All Items quantified and estimated by Disciplines, Headquarters and 3rd Party Compiled by Roadway Desig Lead Engineer.
DIT				Statewide and Regional Averages for Unit Prices		
BID	% BASED ITEMS			Recommended Values:Project < \$5 MMobilization8-11% of ConstructionTraffic Control3-5% of Construction	Project > \$5 M 6-8% of Construction 1-2% of Construction	Utilize production based unit price estimate process.
	CONTINGENCY FOR CONSTURCTION ITEMS			Add Contingency to Bid Items Total - Recommended Values: • 10% Rural minor pavement preservation without complications. • 15% Urban minor pavement preservation without complications. • 20% New construction, reconstruction, rehabilitation, widening, trails, landscaping, and enhancement. • 10% for construction change orders (on all types of projects). - Adjust per understanding of project Level of Detail (LOD).	Lower Contingency Based on LOD - Recommended Values: • 5% Rural minor pavement preservation without complications. • 8% Urban minor pavement preservation without complications. • 10% New construction, reconstruction, rehabilitation, widening, trails, landscaping, and enhancement. • 10% contingency for construction change orders (on all types of projects).	Lowest Level of Contingend - Recommended Values: • All items should be estimated with limited risk of project changes. • 5% to 10% contingency for construction change orders.

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	Plans, Specification & Estimate Plans/Letting
etc.	Estimate Final Review and Update based on inflation, market, etc.
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				TDOT Estimating Proces	s within PDN Stages	
		Stage 0	Stage 1 Cost Validation	Line and Grade Package	Functional Design Plans	Plan-in-Hand Plans
NON-BID	OTHER			 ROW funded amount Utilities and Railroad utilize Concept Estimate (0UT1) Environmental mitigation (streams and wetland design or credits) Incentives 2% of construction 	 ROW funded amount Utilities and Railroad updated estimate (2RW1/2UT1) Final environmental mitigation (streams and wetland design or credit costs) Incentives 2% of construction 	 Final ROW costs Final utility costs Final incentive costs Final environmental mitigat credit costs)
	PRELMINARY ENGINEERING			 PE Recommendations (as applicable): 6% - Rural or Urban Pavement Rehab, and safety pr 10% - New construction, reconstruction, roadway at trails, landscaping, and enhancement. 20% - Local Government - Percentage is based on the design complexity vs. or recommendations to fit the anticipated needs of the than 20% depending on design complexity and the generally have a higher PE % than large projects. 	Include actual PE costs	
	CONSTRUCTION ENGINEERING			CE Recommended Values: Construction, Reconstruction, Rehabilitation: \$500K - \$1M: 12.0% \$1M - \$5M: 7.5% \$5M - \$15M: 7.0% >\$15M: 6.5% Signals or TSMO only: 13.5%	Spot Improvement, Safety, Enhancements: \$0 - \$500K: 12.0% \$500K - \$5M: 8.5% \$5M - \$15M: 7.5% >\$15M: 6.5% Local Goverment:16%	Included actual CE costs (as coordinated with Construction in the estimate
	INFLATION FACTOR			5.5% per year until Programmed Construction Year		
		Update Project File at each stage of the project.				

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