

PREDESIGN MANUAL

FOR CAPITAL PROJECTS FUNDED IN THE 2021-23 BIENNIUM



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SECTION A

ABOUT THE PREDESIGN

1. PURPOSE OF THE CAPITAL PROJECT PREDESIGN

The Office of Financial Management (OFM) is required by RCW <u>43.88.110(5)</u> to institute procedures for reviewing capital projects proposed by state agencies. A predesign is one step in a comprehensive review and funding process for state agency capital construction.

The intent of a predesign is to explore alternatives for proposed capital projects. The predesign should assess which alternative best addresses the problem, opportunity or program requirement and at what cost, generally at less than schematic-level design information. Decision makers in the Governor's Office, OFM and the Legislature use this information to determine whether the project should proceed toward design and construction.

2. PREDESIGN BASICS

It is highly recommended that agencies schedule an initial scoping meeting with their OFM capital budget <u>analyst</u> and predesign consultant (if selected) to confirm the predesign requirements and expectations for the project. To ensure that major construction projects are carried out in accordance with legislative and executive intent, design and construction appropriations may not be expended or encumbered until OFM has reviewed and approved the agency's predesign.

Predesigns are required for all capital construction projects:

- Valued over \$5 million (\$10 million for higher education), or
- Valued between \$1 million and \$5 million (\$2 million to \$10 million for higher education) selected by the Legislature or OFM because they are particularly time sensitive, have high risk or are of particular interest to decision makers.

Note: For projects under \$5 million that involve: (a) housing of new state programs, (b) a major expansion of existing state programs or (c) relocation of state agency programs, agencies must submit a modified predesign to OFM's facilities oversight <u>program</u>. This includes the consolidation of multiple state agency tenants into one facility, as directed by RCW <u>43.82.035</u>. Information about the modified predesign is available on OFM's facilities <u>webpage</u>.

If an appropriation for a predesign is included in the budget, the predesign scope must align with any associated budget provisos. Agencies undertaking a predesign without an appropriation should coordinate with their capital budget <u>analyst</u>.

Depending on the scope of a proposed project, not all predesign content in this manual may be required (for example, when a predesign appropriation is limited in scope or identifies a specific building or site). Contact your capital budget <u>analyst</u> for approval early in the predesign process if one or more sections of the predesign will not add value for decision makers or if there are other compelling reasons that warrant an exception for certain content.

3. PREDESIGN SUBMITTAL

For projects to qualify for design consideration in the capital budget, submit the predesign no later than July 1 of even-numbered years, as required in the capital budget <u>instructions</u>. If predesign and design are funded in the same biennium, OFM will not release the allotment for design of the project until the predesign is approved (RCW <u>43.88.110</u>).

Send two hard copies and an electronic version to your capital budget <u>analyst</u> at the address listed below. OFM staff will distribute the predesign to staff of the House Capital Budget Committee and the Senate Ways and Means Committee.

Office of Financial Management Capital Budget P.O. Box 43113 Olympia, WA 98504-3113

4. PREDESIGN REVIEW AND APPROVAL

After receiving a predesign, OFM will review the document to ensure that projects are carried out in accordance with this predesign manual and the direction provided in the capital budget. OFM may require changes or additional information before approval. Agencies should make an appropriate allowance in their consultant contracts for the time involved in the OFM review and approval process. Approval of the completed predesign does not guarantee additional appropriation for design or construction.

To facilitate the approval process, we recommend agencies meet with OFM and legislative staff to present a high-level summary of their predesign and to answer any preliminary questions. Agencies should contact their capital budget <u>analyst</u> to schedule this meeting.

Please note that the purpose of a predesign is to explore alternatives for proposed capital projects. Predesigns also provide professional cost estimates to inform appropriation amounts. If a predesign is completed several biennia before design funding is appropriated, it may have limited value for decision makers. In some cases, agencies may be required to complete additional analysis if the predesign for a project is more than two biennia old, or less in areas experiencing rapid market changes.

SECTION B

CONTENTS OF A PREDESIGN

A predesign should include the content detailed in this section. Contact a capital budget <u>analyst</u> early in the predesign process if specific content detailed below will not aid decision makers in assessing which alternative best addresses the problem, opportunity or program requirement. OFM will approve limited scope predesigns on a case-by-case basis.

1. EXECUTIVE SUMMARY

Summarize the problem, opportunity or program requirements; alternatives considered; preferred alternative; and why that alternative was selected. Include basic project cost information.

2. PROBLEM STATEMENT

- A. Identify the problem, opportunity or program requirement addressed by the project and how it will be accomplished.
- B. Identify and explain the statutory or other requirements that drive the project's operational programs and how these affect the need for space, location or physical accommodations. Include anticipated caseload projections (growth or decline) and assumptions, if applicable.
- C. Explain the connection between the agency's mission, goals and objectives; statutory requirements; and the problem, opportunity or program requirement.
- D. Describe in general terms what is needed to solve the problem.
- E. Include any relevant history of the project, including previous predesigns or budget funding requests that did not go forward to design or construction.

3. ANALYSIS OF ALTERNATIVES (INCLUDING THE PREFERRED ALTERNATIVE)

- A. Describe all alternatives that were considered, including the preferred alternative. Alternatives may include collocation, renovation, leased space, purchase, new construction or other options explored. Include the following:
 - i. A no action alternative. Describe the programmatic outcome of not addressing the problem or opportunity. Do the problems which were driving the project still exist? Are the necessary technologies available to meet the project objectives within the proposed project funding and timeline?
 - ii. The advantages and disadvantages of each alternative. Include a high-level summary table with your analysis that compares the alternatives, including the anticipated cost for each alternative.
 - iii. Cost estimates for each alternative.
 - a) Provide enough information so decision makers have a general understanding of the project costs.
 - b) To compare the life cycle cost of different alternatives, use OFM's Life Cycle Cost Model (LCCM, RCW 39.35B.050). Include the completed life cycle cost summary as an appendix. OFM's LCCM is the only authorized tool for the completion of this section because it provides a standard methodology and set of assumptions for state agency facility construction.

Note: In addition to the LCCM, there are two other additional life cycle cost analysis tools maintained by the state, the Life Cycle Cost Tool (LCCT) maintained by the OFM and the Energy Life Cycle Cost Analysis (ELCCA) maintained by the DES Energy Program. Although these two tools are not required for predesign, they are required in early stages of in design phase for state agency facility construction projects. Consider incorporating these tools in predesigns where the focus of the project is the replacement of building systems.

- 1) OFM's Life Cycle Cost Tool (LCCT) is used for the design of facilities with an area of 5,000 square feet or greater (Executive Order <u>13-03</u>) to demonstrate how the building design contributes to energy efficiency and conservation. The tool, instructions and training webinars are available at OFM's forms <u>webpage</u>.
- 2) The DES Energy Program's Energy Life Cycle Cost <u>Analysis</u> (ELCCA) is required for projects over 25,000 square feet (RCW <u>39.35.050</u>). This tool evaluates energy-using systems such as heating, cooling, lighting, building envelope and domestic hot water.
- iv. Schedule estimates for each alternative. Estimate the start, midpoint and completion dates.

4. DETAILED ANALYSIS OF PREFERRED ALTERNATIVE

- A. Describe the preferred project alternative in detail, including the following:
 - i. Nature of space. How much of the proposed space will be used for what purpose (e.g., office, lab, conference, classroom, etc.).
 - ii. Occupancy numbers.
 - iii. Basic configuration of the building, including square footage and the number of floors.
 - iv. Space needs assessment. Compare the project space needs to currently recognized space planning guidelines and identify the guidelines used. These may include
 - a) OFM's Statewide Space Use Guidelines.
 - b) For four-year higher education facilities, Facilities Evaluation and Planning Guide.
 - c) For community and technical colleges, the Facilities Coding <u>Manual</u> for space use coding, the Capital Analysis <u>Model</u> (Chapter 6, appendix H), and Policy Manual and <u>Guidelines</u> on Utilization of Classrooms and Labs.

B. Site analysis

- i. Identify site studies that are completed or underway and summarize their results. These studies may include:
 - a) Phase 1 environmental survey assessment
 - b) Geotechnical assessment
 - c) Transportation or traffic study

Please be prepared to provide these documents upon request.

- ii. Provide the following:
 - a) Location.
 - b) Building footprint and its relationship to adjacent facilities and site features. Provide an aerial view, sketches of the building site and basic floor plans.
 - c) Water rights and water availability.
 - d) Stormwater requirements.
 - e) For projects including proposed land acquisition, please attach a title report including legal description and analysis of easements as an appendix to the predesign document. Please also detail any acquisition issues.
 - f) Property setback requirements.

- g) Potential issues with the surrounding neighborhood, during construction and ongoing once operational.
- h) Utility extension or relocation issues.
- i) Potential environmental impacts:
 - (i) Green space and natural amenities that need to be preserved or accorded special treatment.
 - (ii) Required or potential site mitigation, including history of possible contamination.
 - (iii) Wetlands and shoreline impacts, including a wetlands delineation and the need to fill wetlands.
 - (iv) Shoreline jurisdiction issues.
- (v) Requirements for the State Environmental Policy Act, National Environmental Policy Act or an environmental impact statement.
- (vi) Other regulatory requirements, such as hydraulic project approval and U.S. Army Corps of Engineers permits.
- Parking and access issues, including improvements required by local ordinances, local road impacts and parking demand.
- j) Impact on surroundings and existing development with construction lay-down areas and construction phasing.
- C. Identify whether the proposed project is consistent with applicable long-term plans (such as the Thurston County and Capitol campus master plans and agency or area master plans) as required by RCW 43.88.110. Please be prepared to provide pertinent documentation submitted to planning authorities.
- D. Consistency with other laws and regulations. Provide documentation that indicates the preferred option is consistent with the following:
 - i. High-performance public buildings (Chapter 39.35D RCW). All state-funded buildings 5,000 square feet or more must be designed, constructed and certified to the LEEDTM silver standard at a minimum.
 - ii. The state efficiency and environmental performance (SEEP) executive order requires, subject to available funding, newly constructed state-owned (including lease purchase) buildings be designed as zero energy or zero energy capable, and include consideration of embodied carbon. In unique situations where a cost-effective, zero energy building is not yet technically feasible, buildings must be designed to exceed the current state building code for energy efficiency to the greatest extent possible (Executive Order <u>20-01</u>). For questions about SEEP or zero energy buildings, please visit the <u>Zero Energy Toolkit</u> or contact SEEP Director Hanna Waterstrat at <u>hanna.waterstrat@commerce.wa.gov</u>.
 - iii. Proposed building projects over 50,000 gross square feet must follow the state energy standards for clean buildings, per RCW 19.27A.210. These standards are in development by the Department of Commerce, and will be established in rule by November 2020 for covered commercial buildings. From 2021 to 2026, the standard will be used to administer a voluntary efficiency incentive program. Beginning in 2026, the standard will be implemented as a mandatory requirement. For more information, see Commerce's website or contact buildings@commerce.wa.gov.
 - iv. Compliance with required vehicle charging capability for new buildings that provide onsite parking (RCW 19.27.540).
 - v. Greenhouse gas emissions reduction policy (RCW <u>70.235.070</u>), including consideration of: a) The state's limits on the emissions of greenhouse gases established in RCW <u>70.235.020</u>;

- b) Statewide goals to reduce annual per capita vehicle miles traveled by 2050, in accordance with RCW <u>47.01.440</u>, except that the agency shall consider whether project locations in rural counties, as defined in RCW <u>43.160.020</u>, will maximize the reduction of vehicle miles traveled; and
- c) Applicable federal emissions reduction requirements.
- vi. Archeological and cultural resources (Executive Order <u>05-05</u> and <u>Section 106</u> of the National Historic Preservation Act of 1966). Consult with the Department of Archaeology and Historic Preservation (DAHP), the Governor's Office of Indian Affairs (GOIA) and affected tribes, as appropriate. A letter from DAHP on the impact of potential sites on cultural resources must be included as an appendix. If mitigation is anticipated, please note this in the predesign with narrative about how mitigation is worked into the project schedule and budget.
- vii. Americans with Disabilities Act implementation (Executive Order <u>96-04</u>).
- viii. Compliance with planning under Chapter <u>36.70A</u> RCW, as required by RCW <u>43.88.0301</u>. ix. Information required by RCW <u>43.88.0301</u>(1).
- x. Other codes or regulations.
- E. Identify problems that require further study (for example, environmental contaminants, traffic studies or IT or other infrastructure challenges). Evaluate identified problems to establish probable costs and risk.
- F. Identify significant or distinguishable components, including major equipment and ADA requirements in excess of existing code.
- G. Identify planned technology infrastructure and other related IT investments that affect the building plans. <u>Contact</u> the Office of the Chief Information Officer (OCIO) to coordinate IT requirements. Some projects may require oversight by OCIO and the Technology Services Board. See RCW <u>43.88.092</u> and <u>43.105.205</u> (for higher education).
- H. Identify any site-related security measures such as setbacks, lighting, etc. and/or physical security measures such as security systems, barrier protection, etc. for the project.
- I. Describe planned building commissioning to ensure systems function as designed.
- J. Describe any future phases, plans or other facilities that will affect this project.
- K. Project management and delivery method alternatives considered.
 - i. Provide a comparative discussion of the pros and cons of the project delivery methods considered for this project, and offer a recommendation of proposed procurement method for the preferred alternative. The delivery methods considered could include design-build, phased construction, general contractor/construction manager (GC/CM) or conventional design/bid/build. The proposed method of project delivery must be justified.
 - (a) For design-build, link the justification to RCW <u>39.10.300</u> for uses, RCW <u>39.10.320</u> requirements and RCW <u>39.10.330</u> for process.
 - (b) For GC/CM, link the justification to the requirements in RCW <u>39.10.340</u> for uses, RCW <u>39.10.350</u> for requirements and RCW <u>39.10.360</u> for process.
 - ii. Describe how the project will be managed within the agency:
 - (a) Identify roles and responsibilities for the project.
 - (b) Identify in-house staffing requirements for the proposed project.
 - (c) Identify consultant services, DES resources or additional staff needed to manage the project.

L. Schedule

 Provide a high-level milestone schedule for the project, including key dates for budget approval, design, bid, acquisition, construction, equipment installation, testing, occupancy and full operation.

- ii. Incorporate value-engineering analysis and constructability review into the project schedule, as required by RCW 43.88.110(5)(c).
- iii. Describe factors that may delay the project schedule, such as an environmentally sensitive location, possible presence of archaeological or historical assets, or possible contamination of the site or buildings undergoing renovation.
- iv. Describe the permitting or local government ordinances or neighborhood issues (such as location or parking compatibility) that could affect the schedule.
- Identify when the local jurisdiction will be contacted and whether community stakeholder meetings are part of the process.

5. PROJECT BUDGET ANALYSIS FOR THE PREFERRED ALTERNATIVE

- A. Cost estimate. Provide the following:
 - i. Major assumptions used in preparing the cost estimate
 - ii. Summary table of Uniformat II Level 2 cost estimates
 - iii. The C-100 in Excel
- B. Proposed funding
 - i. Identify the fund sources and expected receipt of the funds.
 - ii. If alternatively financed, such as through a Certificate of Participation (COP), provide the projected debt service and fund source. Include the assumptions used for calculating finance terms and interest rates. For assistance, please contact Matt Schoenfeld at the Office of the State Treasurer at 360-902-9022 or email.
- C. Facility operations and maintenance requirements
 - i. Define the anticipated impact of the proposed project on the operating budget for the agency or institution. Include maintenance and operating assumptions (including FTEs) and moving costs.
 - ii. Show five biennia of capital and operating costs from the time of occupancy, including an estimate of building repairs, replacement and maintenance.
 - iii. Identify the agency responsible for ongoing maintenance and operations, if not maintained by the owner.
- D. Furniture, fixtures and equipment. Clarify whether furniture, fixtures and equipment are included in the project budget. If not included, explain why.

SECTION C

APPENDICES

APPENDIX 1: PREDESIGN CHECKLIST AND OUTLINE

A predesign should include the content detailed here. OFM will approve limited scope predesigns on a case-by-case basis.

Executive summary

•	Prol	blem statement, opportunity or program requirement
		Identify the problem, opportunity or program requirement that the project addresses and how it will be accomplished.
		Identify and explain the statutory or other requirements that drive the project's operational programs and how these affect the need for space, location or physical accommodations. Include anticipated caseload projections (growth or decline) and assumptions, if applicable
		Explain the connection between the agency's mission, goals and objectives; statutory requirements; and the problem, opportunity or program requirements.
		Describe in general terms what is needed to solve the problem.
	Ц	Include any relevant history of the project, including previous predesigns or budget funding requests that did not go forward to design or construction.
•	And	alysis of alternatives (including the preferred alternative)
		Describe all alternatives that were considered, including the preferred alternative. Include: A no action alternative.
		Advantages and disadvantages of each alternative. Please include a high-level summary table with your analysis that compares the alternatives, including the anticipated cost for each alternative.
		☐ Cost estimates for each alternative:
		☐ Provide enough information so decision makers have a general understanding of the costs.
		☐ Complete OFM's Life Cycle Cost Model (RCW 39.35B.050).
		☐ Schedule estimates for each alternative. Estimate the start, midpoint and completion dates.
•	Det	ailed analysis of preferred alternative
		Nature of space – how much of the proposed space will be used for what purpose (i.e., office, lab, conference, classroom, etc.)
		Occupancy numbers.
		Basic configuration of the building, including square footage and the number of floors.
		Space needs assessment. Identify the guidelines used.
		Site analysis:
		☐ Identify site studies that are completed or under way and summarize their results.
		☐ Location.

	Building footprint and its relationship to adjacent facilities and site features. Provide aerial view, sketches of the building site and basic floorplans.
	Water rights and water availability.
	Stormwater requirements.
	Ownership of the site, easements, and any acquisition issues.
	Property setback requirements.
	Potential issues with the surrounding neighborhood, during construction and ongoing.
	Utility extension or relocation issues.
	Potential environmental impacts.
	Parking and access issues, including improvements required by local ordinances, local road impacts and parking demand.
	Impact on surroundings and existing development with construction lay-down areas and construction phasing.
	nsistency with applicable long-term plans (such as the Thurston County and Capitol npus master plans and agency or area master plans) as required by RCW <u>43.88.110</u> .
Cor	nsistency with other laws and regulations:
	High-performance public buildings (Chapter 39.35D RCW).
	State efficiency and environmental performance, if applicable (Executive Order <u>20-01</u>).
	State energy standards for clean buildings (RCW 19.27A.210).
Ш	Compliance with required vehicle charging capability for new buildings that provide on-site
П	parking (RCW 19.27.540). Greenhouse gas emissions reduction policy (RCW 70.235.070).
	Archeological and cultural resources (Executive Order <u>05-05</u> and <u>Section 106</u> of the
	National Historic Preservation Act of 1966). If mitigation is anticipated, please note this in the predesign with narrative about how mitigation is worked into the project schedule and budget.
	Americans with Disabilities Act (ADA) implementation (Executive Order <u>96-04</u>).
	Compliance with planning under Chapter <u>36.70A</u> RCW, as required by RCW <u>43.88.0301</u> .
	Information required by RCW <u>43.88.0301</u> (1). Other codes or regulations.
	entify problems that require further study. Evaluate identified problems to establish
	obable costs and risk.
-	entify significant or distinguishable components, including major equipment and ADA
req	quirements in excess of existing code.
	entify planned technology infrastructure and other related IT investments that affect the ilding plans.
	entify any site-related and/or physical security measures for the project.
	scribe planned commissioning to ensure systems function as designed.
	scribe any future phases or other facilities that will affect this project.
cor	ovide a comparative discussion of the pros and cons of the project delivery methods a national sidered for this project, and offer a recommendation of proposed procurement thou for the preferred alternative. The proposed method of project delivery must
	iustified.

	D	escribe how the project will be managed within the agency.
	Scl	nedule.
		Provide a high-level milestone schedule for the project, including key dates for budget approval, design, bid, acquisition, construction, equipment installation, testing, occupancy and full operation.
		Incorporate value-engineering analysis and constructability review into the project schedule, as required by RCW 43.88.110(5)(c).
		☐ Describe factors that may delay the project schedule.
		 Describe the permitting or local government ordinances or neighborhood issues (such as location or parking compatibility) that could affect the schedule. Identify when the local jurisdiction will be contacted and whether community
		stakeholder meetings are a part of the process.
•	Prc	eject budget analysis for the preferred alternative
		Cost estimate.
		☐ Major assumptions used in preparing the cost estimate.
		☐ Summary table of Uniformat Level II cost estimates.
		\square The <u>C-100</u> .
		Proposed funding.
		☐ Identify the fund sources and expected receipt of the funds.
		☐ If alternatively financed, such as through a COP, provide the projected debt service and fund source. Include the assumptions used for calculating finance terms and interest rates.
		Facility operations and maintenance requirements.
		Define the anticipated impact of the proposed project on the operating budget for the agency or institution. Include maintenance and operating assumptions (including FTEs) and moving costs.
		☐ Show five biennia of capital and operating costs from the time of occupancy, including an estimate of building repair, replacement and maintenance.
		☐ Identify the agency responsible for ongoing maintenance and operations, if not maintained by the owner.
		Clarify whether furniture, fixtures and equipment are included in the project budget. If not included, explain why.
^o re	de	esign appendices
		Completed Life Cycle Cost Model.
		A letter from DAHP.
		Title report for projects including proposed acquisition.

APPENDIX 2: GLOSSARY

Acquisition. This type of project includes the acquisition of land, structures and buildings. These are fixed assets that have no relationship to the addition or improvement to, or the repair or replacement of, existing fixed assets. Examples of an acquisition are the purchase of a tract of land or a building.

Alternate financing. Proposals that cover a wide range of financial contracts that call for the development or use of space by state agencies through a contractual arrangement with a developer or financing entity. Financing may involve the sale of debt obligations (certificates of participation, or COPs, through the State Treasurer) or funding from a private developer. Title to the property involved may transfer to the state either upon exercise of an option or at the termination of the contract.

Constructability review. A review by an independent consultant or contractor to determine if a project can be physically built as designed. This is to reduce construction change orders and claims. Conduct this review at 75–95 percent completion of the construction documents.

Consultant. A person or entity who provides advice or services to an agency/institution.

Contractor. A person, firm or corporation who, in the pursuit of an independent business, undertakes or submits a bid to construct, alter, repair, add to, subtract from, improve, move or demolish any building, excavation or other structure, project, development or improvement attached to real estate or to do any part thereof.

Design/bid/build. A method of project delivery subject to provisions in Chapter 39.04 RCW in which the agency/institution contracts directly with a single entity responsible for the design of a project and competitively bids the construction services for the construction project.

Design/build. A method of project delivery subject to provisions in Chapter 39.10 RCW in which the agency or institution contracts directly with a single entity that is responsible for both design and construction services for a construction project.

Facility. A building or other structure with at least one wall, a roof and a permanent foundation, regardless of occupancy.

Furniture, fixture and equipment (FF&E). The moveable furniture, fixtures or equipment that require no permanent connection to utilities or to the structure.

General contractor. A contractor whose business operations require the use of more than two unrelated building trades or crafts whose work the contractor will superintend or do in whole or in part. A general contractor does not include an individual who does all work personally without employees or other specialty contractors as defined in this glossary. The terms "general contractor" and "builder" are synonymous.

General contractor/construction manager (GC/CM). A firm with which an agency or institution has selected and negotiated a guaranteed maximum allowable construction cost for a project. A competitive selection process is used through formal advertisement and competitive bid to provide services during the design phase that may include life cycle cost design considerations, value

engineering, scheduling, cost estimating, constructability and alternative construction options for cost savings and sequencing of work. The GC/CM acts as the construction manager and general contractor during the construction phase. The GC/CM process is subject to provisions in Chapter 39.10 RCW.

LEEDTM silver standard. The U.S. Green Building Council leadership in energy and environmental design green building rating standard, referred to as silver standard.

Life cycle cost. The capital and operational cost of a construction item, system or building during its estimated useful life.

Master plan. A document setting forth the concepts and guiding principles for development of campus facilities, landscaping and infrastructure.

Midpoint of construction. Date midway between the commencement date and substantial completion date.

Operations and maintenance (O&M) costs. The costs of the regular custodial care and repair, annual maintenance contracts, utilities, maintenance contracts and salaries of facility staff performing O&M tasks. The ordinary costs required for the upkeep of property and the restoration required when assets are damaged but not replaced. Items under O&M include the costs of inspecting and locating trouble areas; cleaning and preventive work; replacement of minor parts; power; labor; and materials. O&M work is required to preserve or restore buildings, grounds, utilities and equipment to their intended running condition so they can be effectively used for their intended purpose.

Phased construction. Construction that is split into multiple phases due to fund availability and/or occupancy issues, such as completing a renovation in an occupied building.

Project budget. The sum established by the agency/institution that is available for the entire project, including the construction budget; acquisition costs; costs of furniture, furnishings and equipment; and compensation for professional services and all contingencies.

Project delivery system. Method of how an owner plans to contract a project, such as design/bid/build, design/build, GC/CM, etc.

Uniformat. A system for classifying building products and systems by functional subsystem, such as substructure, superstructure or exterior closure.

Value engineering (VE). A systematic, orderly approach to defining a facility's required function, verifying the need for the function and creating alternatives for providing the function at minimum life cycle cost. Value is the lowest life cycle cost to achieve the required function. VE is a problem-solving system that emphasizes the reduction of cost while maintaining the required quality and performance of the facility.

Zero energy building. The total amount of energy used by the building on an annual basis is roughly equal to the amount of renewable energy created on site. Buildings that are zero energy capable are designed to be as efficient as zero energy buildings, so that these buildings can achieve zero energy when on site renewable energy is added in the future.

SECTION C

APPENDICES

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	nsistency with applicable long-term plans (such as the Thurston County and Capitol npus master plans and agency or area master plans) as required by RCW <u>43.88.110</u> .
Cor	nsistency with other laws and regulations:
	High-performance public buildings (Chapter 39.35D RCW).
	State efficiency and environmental performance, if applicable (Executive Order <u>20-01</u>).
	State energy standards for clean buildings (RCW 19.27A.210).
Ш	Compliance with required vehicle charging capability for new buildings that provide on-site
П	parking (RCW 19.27.540). Greenhouse gas emissions reduction policy (RCW 70.235.070).
	Archeological and cultural resources (Executive Order <u>05-05</u> and <u>Section 106</u> of the
	National Historic Preservation Act of 1966). If mitigation is anticipated, please note this in the predesign with narrative about how mitigation is worked into the project schedule and budget.
	Americans with Disabilities Act (ADA) implementation (Executive Order <u>96-04</u>).
	Compliance with planning under Chapter <u>36.70A</u> RCW, as required by RCW <u>43.88.0301</u> .
	Information required by RCW <u>43.88.0301</u> (1). Other codes or regulations.
	entify problems that require further study. Evaluate identified problems to establish
	obable costs and risk.
-	entify significant or distinguishable components, including major equipment and ADA
req	quirements in excess of existing code.
	entify planned technology infrastructure and other related IT investments that affect the ilding plans.
	entify any site-related and/or physical security measures for the project.
	scribe planned commissioning to ensure systems function as designed.
	scribe any future phases or other facilities that will affect this project.
cor	ovide a comparative discussion of the pros and cons of the project delivery methods a national sidered for this project, and offer a recommendation of proposed procurement thou for the preferred alternative. The proposed method of project delivery must
	iustified.

	D	escribe how the project will be managed within the agency.
	Scl	nedule.
		Provide a high-level milestone schedule for the project, including key dates for budget approval, design, bid, acquisition, construction, equipment installation, testing, occupancy and full operation.
		Incorporate value-engineering analysis and constructability review into the project schedule, as required by RCW 43.88.110(5)(c).
		☐ Describe factors that may delay the project schedule.
		 Describe the permitting or local government ordinances or neighborhood issues (such as location or parking compatibility) that could affect the schedule. Identify when the local jurisdiction will be contacted and whether community
		stakeholder meetings are a part of the process.
•	Prc	eject budget analysis for the preferred alternative
		Cost estimate.
		☐ Major assumptions used in preparing the cost estimate.
		☐ Summary table of Uniformat Level II cost estimates.
		\square The <u>C-100</u> .
		Proposed funding.
		☐ Identify the fund sources and expected receipt of the funds.
		☐ If alternatively financed, such as through a COP, provide the projected debt service and fund source. Include the assumptions used for calculating finance terms and interest rates.
		Facility operations and maintenance requirements.
		Define the anticipated impact of the proposed project on the operating budget for the agency or institution. Include maintenance and operating assumptions (including FTEs) and moving costs.
		☐ Show five biennia of capital and operating costs from the time of occupancy, including an estimate of building repair, replacement and maintenance.
		☐ Identify the agency responsible for ongoing maintenance and operations, if not maintained by the owner.
		Clarify whether furniture, fixtures and equipment are included in the project budget. If not included, explain why.
^o re	de	esign appendices
		Completed Life Cycle Cost Model.
		A letter from DAHP.
		Title report for projects including proposed acquisition.