## Chapter Four

**PROJECT MANUAL GUIDE**

for General Work using STREAM Standard documents

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A. This Guide is provided to aid the Designer in preparing the Project Manual so that it complies with requirements and customary practices of the State Building Commission (SBC). The staff of the State of Tennessee Real Estate Asset Management (STREAM) is available to discuss these requirements. Where applicable, the website link is listed beside each document.


1. **Standard documents and guides** are available for many of the Bidding Requirements, Contract Forms, Conditions, and Division 1 Specifications. Become thoroughly familiar with these documents, and use them as provided when text is appropriate.

2. **Bidding documents by the Owner are identifiable by their footer** in which the document number and name are prefaced with the Owner mark “STREAM”, and a three-character set identifier “Std” for Standard. The document number, name, and version date follow. These are referenced in this guide without preface.

3. **Example text for documents requiring editing** is provided in this chapter, and example guide (“Gde”) documents are included in Appendix 2 - Bidding Documents. Do not retype others unless so approved by the Owner. When using an example guide, remove “gde” from footer after modifying.

4. **All most-current documents are downloadable from the STREAM website.** Edit/Gde documents can be downloaded as a “MSWord” (.doc) electronic file. Refer to the Appendix 2 Reference Table for documents having the “.doc” File Code.

5. **Special usage bidding documents needed for certain projects** are referenced in this guide for their appropriate usage, and on the STREAM website. Refer to the Appendix 2 Reference Table for documents having a non-Std special Use Code.

C. Be familiar with applicable portions of:

1. **AIA Handbook of Professional Practice**
   - Available from: The American Institute of Architects (615) 259-9664
   - Middle Tennessee Chapter 209 10th Avenue South, Suite 415
   - Nashville, Tennessee 37203
   - http://aiamidtn.org/

2. **CSI Manual of Practice**
   - Available from: Construction Specifications Institute (800) 689-2900
   - 110 South Union Street, Suite 100
   - Alexandria, Virginia 22314-3351
   - http://csinet.org/

D. Prepare the Project Manual in accordance with the **2012 CSI Manual of Practice**, or latest version, **AIA** documents are available for review at the The American Institute of Architects, Middle Tennessee Chapter, and **CSI** documents are usually available for review in the Business Section of many public libraries.

E. Tailor the Project Manual to the project. Do not include provisions that are inapplicable to the project. Ensure that Bidding and Construction Documents are thoroughly coordinated, complete, concise, and free from redundancy.

F. It is the intent of the SBC that construction contracts are procured through procedures promoting competition to the greatest extent possible. Language in the Bidding Documents placing limitations contrary to this intent is not normally allowed.

G. Throughout the documents, the Designer shall use the term “Designer” as indicated in Article 4 of the General Conditions of the Contract for Construction. “Designer” is the licensed prime design professional or firm lawfully practicing architecture, landscape architecture, or engineering, identified in the Bidding Documents and Agreement form for project. The term “Designer” means the Designer or the Designer’s authorized representative.
00 01 01 COVER AND TITLE PAGE

A. The COVER of the Project Manual may be any style or format that suits the Designer if a title page consistent with this guide is included. The cover shall at least include the project title. The project title should match the title as approved by the SBC and listed on the SBC-1.

B. The TITLE PAGE may be omitted if the cover provides the prescribed content. A title page, if used, shall always provide the prescribed content.

C. The DESIGNER’S SEAL AND SIGNATURE is to be affixed to only the cover and/or title page that follow the prescribed format. The Designer's seal and signature are required by statute, and those of major consultants are recommended to ensure compliance (T.C.A. Section 62-2-306(b)).

D. PRESCRIBED FORMAT AND CONTENT:

EXAMPLE:

PROJECT MANUAL
Date of Reference

For the Project Titled:
A brief name for the Work
Name of facility where the Work is located
Facility location (city, county, state)
SBC Project No.

OWNER
STATE OF TENNESSEE,
Contracting Agency
for User Agency

DESIGNER
Name of Design firm
address
phone/fax number

CONSULTING ENGINEERS
Name of discipline (i.e.: STRUCTURAL)
Name of consulting firm or individual
Name of second discipline
etc.

00 01 10 TABLE OF CONTENTS

Provide a Table of Contents for the entire Project Manual. Do not refer to the Table of Contents as an “Index”. Also, do NOT provide a table of contents for each Division at its beginning.

00 01 15 LIST OF DRAWINGS

Provide a List of Drawings for each drawing sheet within the drawing set. The List of Drawings should match exactly each drawing sheet number and title.
BIDDING REQUIREMENTS

00 11 16 INVITATION TO BID

A. Use or follow the standard:

   Invitation to Bid  (Editable .doc)

B. The standard uses preferred wording and is formatted to provide space for filling in information for a particular job. Retype without modifying any standard wording, or type on a copy of the standard, filling in the blank areas thus:

1. Project:  The official project title, including SBC number.

2. Designer:  The design firm name and address, contact person, phone number, and e-mail address, to be the primary source for obtaining Bidding Documents and channeling inquiries. Joint venture Designers should use a single address, contact person, phone number, and e-mail address.

3. Brief Project Description:  Work description in twenty-five (25) words or less.

4. Pre-Bid Conference:  Where and when.  Also include specific room, if applicable.

5. Bids sent by mail:  To whom and where:  Refer to following No. 6.

6. Bids will be received and opened:  Where and when:  Page 5.10 provides a map delineating regional bidding locations.  The maps are for informational purposes to the Designer and should not be included in the Project Manual.  Appropriate wording corresponding to each location is given on page 4.04.  The Owner, who also establishes time and date, should settle questions about where.

7. Bidding Documents may be examined...:  List applicable plan rooms, giving name and city, omitting address and phone number.  A list of commonly used plan rooms is given on page 4.05.

8. Bidding Documents may be obtained...:  Indicate amount of plans deposit.  This should be approximately 1/1000th of the estimated construction cost rounded to the nearest ten dollars ($10), but neither less than fifty dollars ($50) nor more than one thousand dollars ($1,000) for each set.

C. Mention of Prevailing Wage Law should be deleted if (i) the project would not use Highway Wage Rates; (ii)there is no federal funding involved; and/or (iii) the project is significantly less than fifty thousand dollars ($50,000) in value.
Bids will be received:
(See 00 11 16)

<table>
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<th>Bids will be received by the State of Tennessee at:</th>
<th>Bids sent by mail should be directed to the attention of:</th>
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<tr>
<td>a. For projects located in the TRI-CITIES Region, use:</td>
<td></td>
</tr>
<tr>
<td>US Armed Forces Reserve Center</td>
<td>Major Patrick Ellis</td>
</tr>
<tr>
<td>HQ 176 Maintenance Battalion</td>
<td>HQ 176 Maintenance Battalion</td>
</tr>
<tr>
<td>Tn Army National Guard</td>
<td>Tn Army National Guard</td>
</tr>
<tr>
<td>251 Don May Road</td>
<td>253 Don May Road</td>
</tr>
<tr>
<td>Johnson City, Tennessee 37615</td>
<td>Johnson City, Tennessee 37615</td>
</tr>
<tr>
<td>b. For projects located in the KNOXVILLE Region, use:</td>
<td>(Note: The bid room requires a reservation. This will be done by the Owner’s Contract Administration Group. However, due to room availability, it may affect the requested bid date and/or time.)</td>
</tr>
<tr>
<td>Tn Dot Region 1 Headquarters</td>
<td>Ms. Dolores Guffey</td>
</tr>
<tr>
<td>7345 Region Lane</td>
<td>Regional Office Manager</td>
</tr>
<tr>
<td>Knoxville, Tennessee 37914</td>
<td></td>
</tr>
<tr>
<td>c. For projects located in the CHATTANOOGA Region, use:</td>
<td></td>
</tr>
<tr>
<td>Tn Dot Region 2 Headquarters</td>
<td>Mr. Ray Rucker</td>
</tr>
<tr>
<td>Bureau of Operations Building</td>
<td>Regional Director</td>
</tr>
<tr>
<td>4005 Cromwell Road</td>
<td></td>
</tr>
<tr>
<td>Chattanooga, Tennessee 37421</td>
<td></td>
</tr>
<tr>
<td>d. For projects located in the NASHVILLE Region, use:</td>
<td></td>
</tr>
<tr>
<td>William R. Snodgrass Tennessee Tower Conference Center North, Room 3.126 (Conference Room G)</td>
<td>Ms. Penny DiPiazza, Bidding and Contract Officer</td>
</tr>
<tr>
<td>3rd Floor, 312 Rosa L. Parks Avenue</td>
<td>William R. Snodgrass Tennessee Tower Suite 2400, 312 Rosa L. Parks Avenue</td>
</tr>
<tr>
<td>Nashville, Tennessee 37243-1102</td>
<td>Nashville, Tennessee 37243-1102</td>
</tr>
<tr>
<td>e. For projects located in the JACKSON Region, use:</td>
<td></td>
</tr>
<tr>
<td>Tn DoT Region 4 Headquarters</td>
<td>Ms Karen Bullington</td>
</tr>
<tr>
<td>300 Benchmark Place</td>
<td>Administrative Services Assistant</td>
</tr>
<tr>
<td>Jackson, Tennessee 38301</td>
<td></td>
</tr>
<tr>
<td>f. For projects located in the MEMPHIS Region, use:</td>
<td></td>
</tr>
<tr>
<td>230th Army Liaison Team</td>
<td>SFG Bryant D. Brown</td>
</tr>
<tr>
<td>National Guard Armory</td>
<td></td>
</tr>
<tr>
<td>2610 East Holmes Road</td>
<td></td>
</tr>
<tr>
<td>Memphis, Tennessee 38118</td>
<td></td>
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</tbody>
</table>
Major market PLAN ROOMS used by the State Building Commission:

(See 00 11 16)

Do not include italicized portions in Invitation to Bid.

a. **TRI - CITIES:**

   Associated General Contractors  
   249 Neal Drive  
   Blountville, TN 37617  
   (423) 323-7121

b. **KNOXVILLE:**

   McGraw Hill Construction  
   Contact Elaine Wilson  
   (865) 428-3515

   Knoxville Builders Exchange  
   300 Clark Street  
   Knoxville, TN 37921-6328  
   (865) 525-0443

c. **CHATTANOOGA:**

   Chattanooga Builders Exchange  
   2100 South Greenwood Ave.  
   P. O. Box 3124 (37404)  
   Chattanooga, TN 37404  
   (423) 622-1114

   Associated General Contractors  
   101 West 21st Street  
   Chattanooga, TN 37408  
   (423) 265-1111

d. **NASHVILLE:**

   McGraw Hill Construction  
   Contact Elaine Wilson  
   (865) 428-3515

   Nashville Contractors Association  
   P. O. Box 2048  
   Smyrna, TN 37167  
   (615) 254-8346

   Associated General Contractors  
   6178 Macon Road  
   Memphis, TN 38134  
   (901) 590-4862

e. **JACKSON:**

   West Tennessee Plan Room  
   439 Airways Blvd.  
   Jackson, TN 38301  
   (731) 427-2573

f. **MEMPHIS:**

   McGraw Hill Construction  
   Contact Elaine Wilson  
   (865) 428-3515

   Memphis Builders Exchange  
   642 South Cooper Street  
   Memphis, TN 38104  
   (901) 272-7495

g. **ALL REGIONS:**

   Reed Construction Data  
   Document Processing Center  
   30 Technology Pkwy South, Suite 500  
   Norcross, GA 30092-2912  
   (800) 901-8667  
   docprocessing@reedbusiness.com
00 21 00 INSTRUCTIONS TO BIDDERS

A. Include the standard:

00 21 13 Instructions to Bidders

B. Detailed review with the Owner is required before using supplementary or other instructions.

00 22 00 SPECIAL SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

A. NGB-FUNDED MILITARY PROJECTS. For Department of Military projects in which certain major portions of the Work is funded by the National Guard Bureau, and requires a bid breakdown of these portions of the Work so to determine actual funding amounts to be apportioned. Include the standard:

00 22 13.13 Supplementary Instructions to Bidders

B. SPECIAL REGULATORY CERTIFICATION. For projects in which the Work includes the installation or removal of underground storage tanks, removal of asbestos containing materials (ACM) or of lead-containing materials (lead paint), or the installation of radioactive devices (x-rays) or combustion machinery (boilers/generators), TN Dept. of Environment and Conservation rules require contractor certification. Include the standard:

00 22 13.19 Supplementary Instructions to Bidders

C. MULTI-SITE PROJECTS. This applies to projects in which the Work involves two or more sites in distinctly separate business regions, and a bidder may choose to list a different subcontractor for each trade for each site. Consult with the Owner on its use. Include the standards:

00 22 13.23 Supplementary Instructions to Bidders

and

00 22 13.26 Subcontractor Multi-Site Bidding Form (Editable .doc)

And, on the form, fill in the appropriate spaces for each of the specific permissible sites.

00 30 00 INFORMATION AVAILABLE TO BIDDERS

Whenever such information is to be made available, it should be stipulated that the information was gathered solely for the use of the Designer and not for use as a basis for preparing a bid; and, the use and interpretation of this information for any purpose will be entirely the responsibility of the using party.

A. Identify information that is available in addition to the Bidding Documents for review by bidders. Such information may include preliminary scheduling, geotechnical data, description of existing conditions, photographs, pre-existing drawings, etc.

B. HAZARDOUS MATERIALS DATA. If a hazardous materials survey has been conducted and is available for review by bidders include in the project manual. Do not bind the report in the Project Manual or release via addenda:

00 31 26 Hazardous Materials Data (Editable .doc)

C. GEOTECHNICAL DATA. An example of this as would be provided regarding a geotechnical report is available. Do not bind the report in the Project Manual or release via addenda:

00 31 32 Geotechnical Data (Editable .doc)

D. DISQUALIFICATION INFORMATION. Current lists have been established (regarding this information) and are available for review by bidders at the STREAM Web Site. Include in the project manual:

00 38 60 Disqualified Contractors and Subcontractors
00 41 00 BID FORM

A. For soliciting a Base Bid only, without Phases, Alternates, or Unit Prices, use the standard:
   
   00 41 13 Bid Form (Std) (Editable .doc)

B. Normal items to fill in on Bid Form:
   
   1. Project title and SBC project number, appearing on all pages of bid form;
   2. Roof Bond amount, if applicable (see 00 61 43), otherwise "N/A";
   3. Number of calendar days Contract Time; and, 
   4. Amount of Liquidated Damages.

C. Special items to edit into Bid Form when required:
   
   1. Phasing of the Work;
   2. Alternate bids (See 01 23 00); and
   3. Unit price proposals (See 01 22 19).

D. GUIDE FOR EDITING BID FORM:
   
   1. The Bid Form will require editing in order to accommodate special items (see paragraph C) for the 
      project. Normal fill-ins and several variations are illustrated in the guide:
      
      00 41 13G Bid Form Gde (Editable .doc)
   2. Provide an edited Bid Form that suits the particular project, following the format and wording of 
      the guide. Once form has been edited, remove “Gde” from footer as it is no longer a Guide.

00 43 00 SPECIAL BID DOCUMENT ENCLOSURES

NGB-FUNDED MILITARY PROJECTS. This applies to Department of Military projects in which certain major 
portions the Work is funded by the National Guard Bureau, and requires a bid breakdown of these portions of 
the Work so to determine actual funding amounts to be apportioned. Include the standard:
   
   00 43 99 Bid Breakdown (Editable .doc)
00 52 00 AGREEMENT FORMS

A. Include the standard introduction to the construction Agreement form, which provides information on how the form will be used:

00 52 01 Agreement Form,
or
00 52 01.10 Agreement Form for CM/GC Delivery Method.

B. NGB-FUNDED MILITARY PROJECTS. This applies to Department of Military projects in which certain major portions of the Work is funded by the National Guard Bureau:

1. Delete the standard:
2. Substitute:

00 52 01.13 Agreement Forms (Limited Editable .doc)

C. Include the standard blank of the actual construction Agreement form:

00 52 13 Standard Form of Agreement (This form is for informational purposes only and should not be edited.);
or
00 52 23 Standard Form of Agreement for CM/GC Delivery Method (This form is for informational purposes only and should not be edited.)

00 54 00 SPECIAL AGREEMENT FORMS

A. Include the standard introduction to the Automatic Clearing House (ACH) agreement form, which provides information on how the form will be used and, include the attachment federal tax information form:

ACH Credits Form
W-9 Form

B. For projects that the construction cost estimate is near or exceeds five hundred thousand dollars ($500,000):

00 54 43 Retainage Escrow Initiation

C. NGB-FUNDED MILITARY PROJECTS. This applies to Department of Military projects in which certain major portions of the Work is funded by the National Guard Bureau:

00 54 39 Corporate Authority Certificate

00 60 00 PROJECT FORMS

A. If project is estimated near or in excess of $100,000, include the standard State of Tennessee Contract Bond, which serves the dual purposes of a Performance Bond and a Labor and Material Payment Bond:

00 61 13 Contract Bond (This form is for informational purposes only and should not be edited.)

B. If project requires application of a roofing system to a low-sloped (i.e.: flat) roof, or a metal roof of any slope, include the Owner’s Std Three-Year Roof Bond. This bond is not required on shingle roofing installation. The roof bond adds two years to the basic one-year of bond coverage of the Contractor’s warranty for the roof system:

00 61 43 Three-Year Roof Bond (This form is for informational purposes only and should not be edited.)
1. In the space provided on the Bid Form indicate the penal sum of the roof bond. Appropriate indications may be "An amount equal to Alternate No. 1", "An amount equal to 85% of the Base Bid", or an actual dollar figure, deriving percentages or amounts from the Designer’s estimate for the roofing. If an actual dollar figure is entered, this amount should equal, or the total of if more than warranty is included in Project Manual, the Designer’s estimate as inserted in Section 01 78 36, Roofing System Warranty.

2. Other roofing systems may prove applicable for including the roof bond but without the Owner’s Std 01 78 36 Roofing System Warranty. Consult with the Owner as to its applicability for other such systems.

C. All projects should include the following form and it should be completed and submitted by the Contractor with the closeout documents:

00 65 01 Non-Use of Asbestos Containing Materials Affidavit - Contractor
00 72 00 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION

A. Include:

00 72 13 RPA Modified AIA Document A201, Fifteenth Edition, 1997, or

This applies to projects in which federal funding of the project requires inclusion of federal acquisition regulations, such as Davis Bacon Act and Copeland Amendment clauses, including National Guard Bureau projects. Some federal grants permit the State to undertake Work without these additional requirements. The Project Manager is responsible for determining the applicability of these provisions.

A. Delete the standard:


B. CIVILIAN FEDERAL FUNDS. For civilian construction projects involving federal funds, insert:


C. MILITARY FEDERAL FUNDS. For military construction projects involving federal National Guard Bureau funds, insert:


00 73 00 SPECIAL SUPPLEMENTARY CONDITIONS

A. For CM/GC Delivery Method include the following supplementary conditions:

00 73 15 Supplementary Conditions,
or
00 73 25 Supplementary Conditions for federally funded projects

B. RECORDS and CONTRACTOR-PROVIDED PROPERTY INSURANCE. All projects require this supplementary condition. Add:

00 73 40 Supplementary Conditions Records and Insurance
00 73 40.01 Supplementary Conditions Records Only, Insurance Not Required

00 73 00 SUPPLEMENTARY CONDITIONS

A. PREVAILING WAGE DETERMINATION:

1. Should the project require Highway Wage Rates, Owner will provide a completed Wage Determination(s) for incorporation in Project Manual:

00 73 43 Supplementary Conditions (Wage Determination)

2. The Department of Labor and Workforce Development sets one statewide highway scale. Once the 00 73 43 Wage Determination is received, it can be checked to see whether Highway Wage Rate listings are needed.

3. If the Wage Determination indicates Highway Rates apply, include (The Owner will provide this Section when it is applicable to the project):

00 73 46 Supplementary Conditions (Highway Wage Rates)

4. Multiple contracts specified in a single project manual may require a separate determination or decision number for each contract, and multiple sites in different wage regions may require a determination for each region.
5. **A federal wage rate determination may be required**, and if so, will be provided by the User Agency for incorporation in the **00 73 00s**. This applies to projects in which federal funding of the project requires inclusion of federal acquisition regulations, such as Davis Bacon Act and Copeland Amendment clauses, including National Guard Bureau projects. Some federal grants permit the state to undertake Work without these additional requirements. The Project Manager is responsible for determining the applicability of these provisions. Both Building Wage Rates and Highway Wage Rates may apply to projects containing federal funds.

B. No modifications or other conditions are acceptable unless specifically reviewed and approved by the Owner. If approved, integrate them in proper sequence and referenced to the appropriate paragraph.

### ADDENDA

**00 90 00 ADDENDA AND MODIFICATIONS**

A. If Contract Documents are issued subsequent to the award of a contract, bind any addenda that are a part of the Contract Documents into such Project Manuals with a first page index to the addenda.

B. It is not required that Contract Documents be recompiled at award of contract. Normally, compilation of Addenda as series **00 91 13** pages of the Project Manual is only done for the microfilm record. Refer to **Chapter 7 - Close-Out and Record Documents**.

C. In accordance with T.C.A. §12-4-126, no addenda shall be issued within less than forty-eight (48) hours of the bid opening date. The only exception shall be to postpone the bid opening to allow for additional addenda to be issued within statute.

D. In accordance with **Section 00 21 13, Instructions to Bidder**, 3.3, no addenda that affect pricing will be issued less than three (3) calendar days before bid opening date.

E. All addenda shall be submitted to the Owner, Project Manager and Bidding and Contract Officer, for approval prior to release to plan holders.

F. For clarifications, Designer shall instruct plan holders where to find the information within the Project Manual and/or Drawings. Do not answer questions directly unless using the exact information as found in the bidding documents.

G. All addenda shall be sealed, signed and dated by the Designer prior to release.
SPECIFICATIONS

REQUIREMENTS FOR ALL SPECIFICATIONS

A. Format specification sections in 3 parts: General, Products, and Execution. A master list of section titles and numbers can be found in CSI MasterFormat 2012 Edition. Specific examples of specifying in accordance with the CSI format are given in the Manual of Practice.

B. Do not assign work to trades in the specifications. The Conditions of the Contract establish the Contractor as responsible for all Work, and expressly excludes the Designer from control of construction means, methods, and techniques. Specifications may establish qualifications for those performing a specific task.

C. Sections of Division 1 are unique as specifications in that they relate directly to Bidding Requirements and to all parts of the written Contract Documents. Sections of Divisions 2-49 constitute basic units of the total specification, covering requirements for one portion of the Work.

D. Tailor and coordinate Division 1 to the size and complexity of the project, and the requirements of Divisions 2 through 49. Complex projects will require a complete and thorough Division 1. Simpler projects may only require an abbreviated Division 1.

E. Avoid Proprietary and Sole Source Specifications:
   1. When specific manufacturers are named, the naming of a specific manufacturer should serve only to establish a level of quality. Specifications should not be made proprietary unless there is sufficient justification, which must be well documented and specifically approved in writing by the Owner, and normally with SBC approval. The Designer shall complete a Proprietary Request Form for each proprietary product and submit to Owner.
   2. Use Performance, Descriptive, or Reference Standard specifications to the greatest extent possible. If a manufacturer's name is used to establish a level of quality, include whenever possible the names of three or more acceptable manufacturers that have been evaluated and found equal in quality to the specification. Add "or approved equal" language to product specifications that mention manufacturers by name but are not intended to be proprietary.
   3. When specifically permitted by the Owner, a specification may restrict manufacturers to a single source. In such cases, the specification must state the restriction explicitly. Standard language in the Owner’s Std documents makes all specifications generally subject to substitutions (with normal approval procedures) unless explicitly restricted. Similarly, if consideration of substitutions must be limited to pre-bid or another time frame, this must be explicitly stated.
   4. The Owner intends to promote the substitution of products of equal or better quality whenever possible, within a process of obtaining Designer approval before making the substitution. Article 3, paragraph 3.4.2 of the General Conditions and guide Section 01 62 25 Product Options & Substitutions have been written to provide a mechanism for this, even after the award of contract, though the Contractor who submits a bid depending on post-bid approval of a substitution does so at risk.

F. Augment, but do not repeat the provisions already contained in the Bidding Requirements, Contract Forms, and Conditions. In Divisions 02 through 49, likewise do not repeat provisions already in Division 01. Throughout this Project Manual Guide there are instructions for coordinating with other sections.
**01 10 00 SUMMARY**

A. Include as a minimum in Section **01 10 00** at least a brief description of the work of the Base Bid, and inform the Contractor of related conditions under which the Work will be performed. Do not include work that will be included as an alternate to the project. This scope of work will be addressed in the Alternates Section. Address related work, restrictions, future work and similar known factors. Identify specific phasing or sequencing of the Work, if any.

B. Describe restrictions to access and use of premises. Many State facilities have security regulations that may affect the Contractor's schedule. Have the Owner acquaint you with the controls at the facility.

C. Describe the conditions for partial occupancy, if any will be permitted or required. Identify the extent of the Owner's on-site operations, if the Owner intends to continue these during construction.

D. An outline of appropriate topics for this section include:
   1. Summary of Work:
      a. Work covered by Contract Documents; and,
      b. Work by Owner.
   2. Multiple contracts:
      a. Summary of other contracts;
      b. Work sequence;
      c. Construction by Owner; and,
      d. Contract interface and coordination.
   3. Work sequence.
   4. Products:
      a. Ordered in advance; and,
      b. Owner furnished products.
   5. Future work.
   6. Work Restrictions: (Coordinate with the Special Project Procedures Section, if applicable)
      a. Site access and security procedures;
      b. Work hours and use of premises;
      c. Owner occupancy details;
      d. Owner maintenance and operation requirements; and,
      e. Adjacent activities to the project site.
   7. Use of the site:
      a. By Contractor for Work, including parking and staging;
      b. By Owner and Owner's clientele, including egress; and,
      c. Project utility sources.

E. **Hazardous Materials.** If applicable, specify whether the Work includes removal or abatement of hazardous materials, such as friable or non-friable asbestos. It is important that this be clearly specified here because the Conditions clauses addressing abatement hazards insurance set forth different requirements based on the form of asbestos, and the person administering the award of contract will rely on the description here when determining which insurance requirements apply.

F. **Phasing of Work.** If dividing the Work and Time into Phases, establish a primary element of the Work which will not be otherwise assigned to a Phase and assign it the "Total Time" of the Contract, even if this only includes general administrative portions of the Work. Specify that the Work also includes the following Phases, then list each Phase and a specific description (such as "Phase 3, Paving Parking Lots, including site-prep, paving, striping, curbs, and appurtenances as shown on sheet A9 and applicable specifications").
01 21 00 ALLOWANCES

A. Allowances are used only when unavoidable and specifically approved in writing by the Owner, in which case incorporate the standard:

**01 21 13 Allowances** *(Editable .doc)*

B. Specify no unassigned or discretionary allowances. Provide descriptions of each allowance (in Article 1.04 of the document). Specify amounts included in Contract Sum for Contractor's product costs, and procedures for selection of products.

C. In appropriate sections of Divisions 02 through 49, specify products and their incorporation into the Work as completely as known factors allow. Do not include the value of allowances, but refer to the Allowances section.

D. CONTAMINATED/HAZARDOUS MATERIALS DISPOSAL WORK. If disposal of contaminated or hazardous materials of unknown quantities is likely, such as impacted soils and groundwater associated with underground storage tank removal work, then a cash allowance for removal, treatment and disposal of materials may be applicable. This is due to the possible high costs associated with such work. The staff of the Owner is available to discuss the potential incorporation of the special section:

**01 21 46 Disposal Allowances** *(Editable .doc)*

01 22 00 UNIT PRICES

A. Using unit prices is **discouraged**. Use unit prices only if unavoidable and specifically approved in writing by the Owner.

B. If unit prices are used, incorporate the standard:

**01 22 19 Unit Prices** *(Editable .doc)*

C. Provide descriptions of each unit price (in Article 1.03 of standard). Include an item number, reference to related sections, Base Quantity allowance, Unit of measure, Unit Price per unit, and a caption for the Work included which relates to a complete description in the related sections. Following is an example of preferred format and wording:

<table>
<thead>
<tr>
<th>Item</th>
<th>Related Section(s) and/or Drawing(s)</th>
<th>Base Quantity</th>
<th>Unit Price per Unit</th>
<th>Unit</th>
<th>Work Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>061600</td>
<td>2000</td>
<td>S.F.</td>
<td></td>
<td>Replace doomafitches</td>
</tr>
<tr>
<td>2</td>
<td>074000</td>
<td>100</td>
<td>Each</td>
<td></td>
<td>Whatchamacallits</td>
</tr>
</tbody>
</table>

1. **Item**: numeration for the list of items.

2. **Related Section(s) and/or Drawing(s)**: give the number of the section(s) and/or drawing sheet(s) in which detailed information is found.

3. **Base Quantity**: This is an allowance of units included initially in the contract, and should be a “best guess” of the number actually needed. In “Related Section(s) and/or Drawing(s)”, the allowance should be distinguished from like units in the Work and not subject to unit price. For example, if one thousand (1,000) linear feet (L.F.) of pipe is shown in drawings plus two hundred (200) to three hundred (300) linear feet (L.F.) of identical pipe is to be placed according to on-site directions of the Designer at a Unit Price, a Base Quantity of two hundred fifty (250) linear feet (L.F.) might be used, with the related section specifying that the quantity of pipe shown in drawings is not part of the Base Quantity allowance for the Unit Price.

4. **Unit Price per Unit**: It is preferable that the Designer solicit unit prices, “(S)” should appear in the column in accordance with paragraph 1.01.A of the specification.

5. **Work Included**: The description should be short as it should be completely described within the Related Section(s) and/or Drawing(s). It is preferable to provide a brief caption; and, in the related section, in the “Summary” Article, in the “Unit Prices” paragraph, provide a fully descriptive subparagraph headlined by the same caption. The short description as listed in Work Included shall match, verbatim, the Unit Price items on the **Bid Form, Section 00 41 13**.
6. Article 1.03 of the document is the only language that should be edited in this document.

D. In discussing the possible use of unit prices on a project, consider the following issues:

1. Are there issues to clarify about unit price items that require specification in the Summary?
2. Are unit price items and/or their base quantities affected by Alternates or other factors?
3. The possibilities of actual unit price(s) units exceeding the base quantity (whether more than or less than) by more than twenty-five percent (25%), and should there be a cap on the degree of change to be permitted in unit prices under the renegotiation clause, perhaps expressed as a percent of the initial unit price?

01 23 00 ALTERNATES

A. Use of alternates is discouraged. If sufficient cause exists to warrant the use of alternates, incorporate the standard:

   01 23 00 Alternates  (Editable .doc)

B. If retyping the Section, adhere to standardized text for articles 1.01 through 1.03.

C. In Article 1.04:

1. List alternates in descending order of priority after the Base Bid. Alternates shall be additive and limited to three in number.
2. List each alternate with a brief heading then provide specific details defining each Alternate, with reference to applicable specification(s) and Drawing sheet(s) and details. If unit prices are affected, include details as to their effect. Avoid alternates which are complex or involve several trades unless a complete unit.
3. Article 1.04 of the document is the only language that should be edited in this document.

D. Coordinate this Section with solicitation of alternate prices in Bid Form (See 00 41 13), and applicable specifications and details. The brief heading is the only thing listed on the Bid Form for each alternate.

01 26 00 CONTRACT MODIFICATION PROCEDURES

A. Include the standard section on Change Orders:

   01 26 00 Modification Procedures

B. Additionally, though it may be omitted with the Owner’s approval, normally include the standard:

   01 26 20 Weather Delays
   or, if the Work is reroofing, use instead:
   01 26 23 Reroofing Weather Delays

C. Include the standard Change Order Form and the Cost Itemization form:

   01 26 40 Amendment, Change Order, or Directive
   and
   01 26 50 Cost Itemization form

D. If the construction delivery method is CM/GC, also include:

   01 26 10 CM/GC – GMP Contingency and Owner Reserve Procedures
   and
   01 26 39 Form For Field Order
01 29 00 PAYMENT PROCEDURES

Unless otherwise approved by the Owner, include the standard sections:

- **01 29 73 Schedule of Values**
- **01 29 76.13 Personnel Used in Contract Performance**
- **01 29 76 Payment Procedures**, or
- **01 29 76.01 Payment Procedures** for TDOT FHWA projects

01 31 00 PROJECT MANAGEMENT AND COORDINATION

A. Coordination of the Work and its various parts, and coordination with other separate contracts, or amongst multiple contracts, and special meetings may be specified in **01 31 00** sections, **01 31 13 Coordination**, or in appropriate sections of Divisions 02 through 49.

B. If a Commissioning Agent is included as part of the Owner’s team, include the standard:

- **01 31 13.91 Commissioning Coordination**

C. Unless the Owner agrees that the particular needs of a job dictate developing a special Section **01 31 00** Project Meetings, include the standard:

- **01 31 19 Project Meetings**

D. Include requirements for submittals log and visitor log, at least as set forth in the standard:

- **01 31 90 Administrative Logs**

E. If hazardous materials abatement or removal is involved:

Delete:

- **01 31 90 Administrative Logs**

Include in its place:

- **01 31 93 Administrative Logs**

F. Some projects may have no significant submittals, and need no submittals log. Visitor Log may be impractical for very small projects, or redundant where extensive entry/exit logs are used. It may then be appropriate to modify the section or merge it into another section. Confer with the Owner before doing so.

01 32 00 CONSTRUCTION PROGRESS DOCUMENTATION

A. If Owner-assisted scheduling is involved:

- **01 32 13 Scheduling of Work**

B. Include requirements for initial progress and submittals schedules and updated progress schedules and reports. For projects not utilizing Owner-assisted scheduling:

- **01 32 15 Progress Schedules and Reports**, or
- **01 32 15.01 Progress Schedules and Reports** for TDOT FHWA projects

C. If Owner-assisted scheduling is involved:

Delete:

- **01 32 15 Progress Schedules and Reports**

Include in its place:

- **01 32 16 Progress Schedules and Reports**
01 33 00 SUBMITTAL PROCEDURES

A. Address requirements common to all submittals. Sections of Divisions 02 through 49 should reference these sections for the common requirements, and then expand on specific requirements unique to them. Few projects will require every one of the following to be addressed, but appropriate topics for Submittals include:

1. Certificates
2. Design Data
3. Field Test Reports
4. Shop Drawings, Product Data, and Samples
5. Source Quality Control Reports
6. Environmental Permits and Storm Water Pollution Prevention Plans

B. BUILDING DEMOLITION or HAZARDOUS MATERIALS ABATEMENT WORK:

1. If building demolition or hazardous materials abatement or removal is involved to the extent that regulatory notification is required, require Contractor to give proper written notice of impending commencement of such work to the Tennessee Division of Air Pollution Control.
2. For certain projects where abatement is considered significant in scope, the Owner will recommend including the standard:
   01 33 43 Abatement Submittals

C. COMMISSIONING AGENT:

If a Commissioning Agent is included as part of the Owner’s team, include the standard:
   01 33 91 Commissioning Submittals

01 35 00 SPECIAL PROJECT PROCEDURES

A. DETENTION PROJECTS. On most projects in which Work takes place inside the secure perimeter of a detention facility, such as a state prison or juvenile facility, due to the unusual conditions in a detention facility, include one of the following, the Project Manager will assist in determining the correct version for the project:

   01 35 13.16 Detention Project Procedures
   01 35 13.17 Youth Development Center Project Procedures
   01 35 13.30 Limited Scope Detention Project Procedures
   01 35 13.32 Non-Institutional Detention Project Procedures

B. MENTAL HEALTH & DEVELOPMENTAL DISABILITIES PROJECTS. On most projects in which Work takes place inside the secure perimeter of a mental health or mental retardation facility, such as a mental health hospital, due to the unusual conditions in such a facility, include:

   01 35 13.19 Mental Health and Developmental Disabilities Project Procedures

C. SPECIAL SCHOOL PROJECTS. On most projects in which Work takes place inside the perimeter of a School for the Blind, School for the Deaf, or Alvin C. York Agricultural Institute, due to the unusual conditions in such a facility, include the following:

   01 35 13.22 Special Schools’ Project Procedures

D. TENNESSEE STATE VETERANS’ HOMES BOARD PROJECTS. On most projects in which Work takes place inside State Veterans’ Home facility, due to unusual conditions in such a facility, include the following:

   01 35 13.24 Tennessee State Veterans’ Homes Board Project Procedures
E. DEPARTMENT OF MILITARY PROJECTS. On most projects in which Work takes place at a Department of Military facility, due to unusual conditions in such a facility, include the following:

01 35 13 28 Department of Military Project Procedures

F. Verify with the Owner whether any of these sections may not be needed, has been updated, or requires additional provisions specific to the facility in an accompanying section.

01 41 00 REGULATORY REQUIREMENTS

A. Include the list of building codes and regulations used for State Building Commission projects:

01 41 15 Regulatory Requirements

B. Depending on the use of the building, other codes or regulations may also apply. Regulatory requirements in addition to those in the standard section should be enumerated by adding a separate section.

01 43 00 QUALITY CONTROL

A. For a concrete testing laboratory, the standard section may be included, and may serve as guide for similar sections:

01 43 25 Testing Laboratory Services

B. This broadscope group specifies contractor's quality control, tests required by code, and tests by independent testing laboratory. Include specifications for testing on each project. Describe the extent of testing required. Requirements should include:

1. The cost of tests shall be paid by the Contractor.
2. The firm engaged and personnel used to perform tests shall be approved in writing by Designer.
3. Tests such as compaction, investigation of borrow areas, analysis of bearing conditions and similar work, shall be done under the direction of an engineer registered in Tennessee.
4. Test reports shall be identified by project name and SBC number, and bear the seal and signature of an engineer registered in Tennessee.
5. Copies of test reports shall be sent to the Designer, the Contractor, and the Owner.

C. HAZARDOUS MATERIALS ABATEMENT WORK.

1. If asbestos or lead based paint abatement or removal is involved, Specify that Air Monitoring is to be performed by a properly qualified subcontractor provided by Contractor. Specify minimum subcontractor qualifications and performance requirements. Air monitoring standards may be specified in other broad scope sections such as 01 41 15 Basic Regulatory Requirements and 02 82 13 Hazardous Materials Abatement.

2. The Owner will consider unusual circumstances wherein the Designer might recommend that air monitoring be provided by the Designer or a consultant, but such would be the exceptional case. If such recommendation is approved, include the standard:

01 43 28 Testing Laboratory Services

NOTE: If the project includes concrete and hazardous materials abatement work, include both sections in the project manual.

01 50 00 TEMPORARY FACILITIES AND CONTROLS

A. Temporary Utilities

1. The Contractor is normally responsible for installation, maintenance, rental and service charges, and removal of temporary utilities.
2. If the project is at a State-owned facility where services are adequate, the Contractor may be allowed to use available utilities.
   a. The Owner may pay for water, power and possibly temporary heat.
   b. The Owner will have the right to direct tap points, identify panels and other services that the Contractor may use.
   c. The Owner will have the right to restrict use in time of emergency or for repeated abuse by the Contractor.
   d. Installation, maintenance & removal of temporary services is Contractor’s responsibility.

3. An outside telephone line is normally required.

B. Construction Facilities

1. The Contractor is typically responsible for all construction facilities, such as toilets, offices, and sheds; including installation, maintenance, rental and service charges, and removal.

2. On some projects, it may be advantageous to assign existing toilets, temporary offices and storage areas for the Contractor’s use. Check with the Owner to identify what temporary facilities are available and how they may be used. If this is done, make the Contractor responsible for the maintenance of the spaces, and specify that the Owner may revoke these privileges in the face of repeated abuse.

C. Cleaning during construction, distinct from final cleaning, should be addressed. This is normally found within the topic of Temporary Controls.

D. Owner may have specific requirements for a project sign, such as requiring a certain logo, size, or style. Some agencies have policies forbidding signs, or at least disallowing the requirement of a sign. Check for such agency restrictions and needs before specifying a project sign.

E. Any related items that will be required should be addressed. Appropriate topics include mobilization and:
   1. Temporary utilities (See paragraph A)
   2. Temporary construction and construction aids (See paragraph B)
   3. Security, barriers and enclosures
   4. Traffic regulations, access roads and parking areas
   5. Temporary controls (See paragraph C)
   6. Project identification and signs (See paragraph D)
   7. Field offices and sheds

NOTE: This Section should be applicable to the Project and not include information and requirements that are not necessary for the size and scope of work of the project.

F. FACILITIES PROVIDED FOR OWNER & DESIGNER. On projects as determined by the Owner in which field office facilities for the Owner Representative and Designer are to be provided by the Contractor, normally on large and complex projects. Add:

01 52 25 Owner’s Field Offices

01 60 00 PRODUCT REQUIREMENTS

A. Specify general requirements for materials and equipment. Appropriate topics, if needed, include: transportation and handling, storage and protection, product options and substitutions (See B)

B. Product Options and Substitutions: Specified general requirements for product options and substitutions should neither conflict with nor repeat provisions already included in paragraph 3.4.2 of the General Conditions, and should take into account the instructions to avoid proprietary or sole source specifications. It is preferable that contractors submit substitution requests prior to bid so that all contractors can have access and price same products.
C. The following optional standard documents are recommended either as guidelines or Sections:

- 01 62 25 Product Options and Substitutions
- 01 62 32 Substitution Request Form

01 70 00 EXECUTION AND CLOSEOUT REQUIREMENTS

A. Field Engineering (Section 01 71 23)
   1. Specify Contractor's responsibilities for providing and paying for engineering services required during construction. Set basic requirements for survey work based on Contract Conditions requiring Owner to provide initial survey control points and property lines.
   2. Field engineering by the Contractor, such as structural design of formwork, scaffolding, special earthwork, hydraulic groundwater control design, storm water pollution prevention plans or other civil engineering work, are only broadly covered due to the specialized requirements of portions of the Work, and some requirements should be specified in other appropriate sections.

B. Cleaning (Section 01 74 00)
   1. Specify the Contractor's general responsibilities during construction for regular cleaning, distinct from the provisions for temporary barriers and enclosures specified within sections on temporary facilities and controls.
   2. Specify the Contractor's general responsibilities at the end of the project for final cleaning and removal of debris, waste materials, rubbish, tools, construction equipment, machinery, and surplus materials. Do not repeat the provisions stated in this Section in other Divisions. Cleaning which is unique to a product should be specified in the same Section as the product, with reference to the general requirements in Division 01.

C. Starting and Adjusting (Section 01 75 00 or within the Technical Specification)
   When applicable, and always if commissioning of building systems is involved, specify initial checkout and startup procedures, and initial adjusting to ensure safe operation during acceptance testing and commissioning. When commissioning is involved, the Owner's Commissioning Agent will provide assistance on developing this section.

01 77 00 CLOSEOUT PROCEDURES

A. Include requirements for establishing Substantial Completion and closing-out, as provided in the standard:
   - 01 77 70 Contract Closeout

B. If commissioning of building systems is involved, include:
   - 01 77 70.91 Contract Commissioning Closeout

01 78 00 CLOSEOUT SUBMITTALS

A. This Section complements Conditions paragraph 3.11 with regard to Contractor's responsibilities for maintaining a record of actual construction, compiling data binders, and submitting these to Designer for review prior to delivery to Owner.

B. Additionally, this Section complements Conditions paragraph 3.20 with regard to Contractor's responsibilities for reporting diversity-owned businesses.

C. Use one of the following:
   1. Minimum requirements are included in the standard:
      - 01 78 21 Close-Out Submittals
2. For projects that are more complex or of varied scope and may include a commissioning agent, essential elements common to all projects and several possible specific data items for editing to suit the project are shown in the guide (remove gde from footer after editing document):

   01 78 21G Close-Out Submittals Gde

   (Editable .doc)

D. If roofing work is involved, include the standard:

   01 78 26 Form for Roof Data

   (Limited Editable .doc)

   Fill in project information, building information, and designer information.

E. For any project involving application of a roofing system to a low-sloped (i.e.: flat) roof, or a metal roofing system of any slope, not including shingle roofing, include:

   01 78 36 Roofing System Warranty

   (Limited Editable .doc)

   01 78 39 Total Metal Roofing System Warranty

   (Limited Editable .doc)

   Fill in all information, with the exception of the General Contractor information, at areas above the Roofing System Information. Make sure that the “Designer’s Roof Cost Estimate”, or total of this for every warranty, match the roof bond amount on the Bid Form. A separate Roofing System Warranty should be done for each building to be included in the project.

1. Refer to the DIVISION 7 THERMAL AND MOISTURE PROTECTION specification guidelines that follow in this Guide to ensure proper coordination with the standard warranty.

2. Include 00 61 43 Three-Year Roof Bond

F. Include:

   01 78 88 Report of Subcontractors and Suppliers

01 79 00 DEMONSTRATION AND TRAINING

A. This applies to projects in which Work includes the installation of any major equipment and systems for which a comprehensive demonstration and training is warranted. Demonstrations of each system to Designer’s and Owner’s representatives, using the operating and maintenance data as the basis of instruction, shall be provided prior to substantial completion inspection, to ensure that Owner’s personnel are properly instructed in operation, adjustment, and maintenance of equipment and systems, so that Owner will be able to occupy or utilize the Work or designated portion thereof for the use for which it is intended.

B. Specify Contractor duties for demonstrating newly provided equipment and systems, and providing videotaped training to facility personnel, by including:

   01 79 00 Demonstration and Training

STATE OF TENNESSEE (OWNED) – INTERIOR CONSTRUCTION GUIDELINES

State of Tennessee (Owned) – Interior Construction Guidelines are contained within the Designers’ Manual. These guidelines shall be used for projects involving this work. The intent of this guideline is to maintain a level of standardization with all State-owned facilities. This guideline shall be utilized for developing the specifications and drawings required for this work.

07 00 00 DIVISION 7 THERMAL AND MOISTURE PROTECTION

A. For any project involving the application of a roofing system to a low-sloped (i.e. flat) roof, or a metal roof of any slope, review the standard documents 00 61 43 Three-Year Roof Bond, 01 78 26 Form for Roof Data, and 01 78 36 Roofing System Warranty and the related parts in this chapter, and coordinate specifications accordingly.

B. Specify the manufacturer’s warranty:
1. The roofing system warranty shall be provided on the Owner’s Std form Section 01 78 36 Roofing System Warranty.
2. **Name the appropriate “Roofing System Components Included Under this Warranty”, listing one or more of the component options listed on the middle of page 1 of Section 01 78 36.** Name them exactly to avoid confusion. Frequently, only the system, system accessories, and system flashing can be warranted together, and other items need separate manufacturer’s warranties.Ne**a**me the appropriate warranty term, a minimum of 20 years and base wind speed of 70 MPH. Consult with the Owner regarding which of the terms are to be specified. Factors for determination will be system type, current industry acceptance, and cost differences; however, a minimum 20-year term is required. Whatever the case, a longer length term may be made a bid alternate by specifying an alternate time(s) substituting a longer term for the base bid term.

3. **Specify to provide separate warranties if more than one roof or type of roof system is being installed in a single project.** For such cases, specify a separate components list for each separate warranty to be provided. Consult with specified membrane manufacturer to verify whether sheet metal items can be warranted under the 01 78 36 form. If not, a separate sheet metal warranty is to be required. Sheet metal warranty should have a 20-year finish & 3-year contractor material and workmanship warranty.

4. **Specify that warranty form Section 01 78 36 shall supersede all other provided warranties pertaining to same-covered systems and/or components.**

5. **Other warranties may be specified covering same systems as warranty form Section 01 78 36 and having longer terms, but only when stipulating such would become effective only upon the term end of the warranty form Section 01 78 36.** If other such warranties are specified, stipulate precisely the minimum warranty requirements.

C. The STREAM **Roofing / Re-roofing Design Guideline 07 00 00** (contained within the Designers’ Manual) shall be used for projects involving this work. The intent of this guideline is to maintain a level of standardization with all State-owned roofs. This guideline shall be utilized for developing the specifications and drawings required for this work.

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**23 00 00 HVAC INSTRUMENTATION AND CONTROLS (COMMISSIONING)**

If commissioning of building HVAC systems is involved, consult with Owner’s Commissioning Agent in development of the following sections:

A. **01 91 00 – Commissioning Requirements.** This section will be provided by the Commissioning Agent.

B. **23 05 93 – Testing, Adjusting, and Balancing.** Specify technical procedures for TAB of mechanical systems, including; demonstration of mechanical equipment, duct/pipe/mechanical TAB, mechanical equipment starting/commissioning.

C. **23 09 93 – Sequence of Operation.** Specify how the HVAC equipment is intended to operate.

**31 00 00 DIVISION 31 EARTHWORK**

Take care when specifying and detailing site work to diligently set bearing and excavation elevations. Do not provide specifications that contradict the principle of unclassified subsurface conditions to design depth.

**33 56 16 UNDERGROUND STORAGE TANK INSTALLATION**

The Owner’s **Underground Storage Tank Installation Design Guideline** shall be used for projects involving this work. The intent of this guideline is to maintain a level of standardization with all State-owned tanks in their compliance with related federal and state regulations. This guideline shall be utilized for developing the specifications and drawings required for this work. The staff of the Owner shall provide this document, and is available to discuss this requirement.
STATE OF TENNESSEE (OWNED) – INTERIOR CONSTRUCTION GUIDELINES

GENERAL NOTES

A. This document is intended to provide additional details and information to the Designer and/or Contractor for the preparation of documents and construction for tenant spaces located within a State owned building.

B. This information can be utilized to prepare construction costs.

C. These guidelines and typical drawings are intended to cover the vast majority of design conditions and situations related to tenant spaces; however, additional coordination, verification, research, and design consideration is required to complete documents and specs associated with the various agency spaces. These guidelines are meant to be a primary guide toward a coordinated, aesthetically pleasing and functional design. The Designer and/or Contractor should use his own good judgment about interior space, clearances, power needs, and construction to make decisions appropriate for the conditions of the space and situation.

D. The intent is for spaces throughout the building to give all employees access to natural light and views and to appear and function in an organized fashion. Consideration should always be given to hard walled construction areas being grouped together; a systematic approach to a standard location for public (conference rooms, break rooms, etc.) and staff zones; and horizontal alignment of systems devices, door and window frames, reveals, finishes, light fixtures, ceilings, etc.

E. The design and construction teams shall visit the site to become familiar with existing conditions.

F. All questions pertaining to using “non-standard” construction, materials, etc., for the particular building shall be approved by the STREAM Director of Workplace Strategy & Planning, prior to discussing with the tenant, pricing, or proceeding with construction. Building standard hardware (finish, manufacture, and style), doors, sidelights, frames, security, and finishes shall be used at all times, unless noted and approved otherwise aforementioned.

G. These guidelines will cover the general conditions throughout most tenant spaces. There are some rooms that will have more specialized conditions, equipment, configurations, or use that will be identified beyond the general notes.

H. Coordinate the locations of millwork, audio visual, security, etc. for blocking as needed to support wall mounted equipment or fixtures.

I. The design and/or construction teams shall identify the building standards (doors, frames, hardware, ceiling/grid, lights, window treatment, paint, carpet, construction methods, etc.) at the onset of the project and confirm any needed variations with STREAM.

J. The design and/or construction teams shall utilize owner purchased materials where applicable, unless a special product/finish is necessary, which may require multiple specifications for bidding.

K. Prior to any work commencing in a “Historical” State building, products and construction methods designed to protect the historical integrity of the building must be reviewed and approved by the STREAM Director of Workplace Strategy and Planning.

L. All space to have final clean before occupancy.

M. All design must comply with and be applicable to the following: http://tn.gov/generalservices/article/designers-manual-2014.

N. To maintain a flexible environment, the STREAM prefers no hard wall suites between departments and divisions to ensure easier expansion or contraction in the future. Departments or agencies requiring hard walls must submit justification to do so.
O. MAG locks with a minimum 400 strength is standard security door device of choice in conjunction
with card readers.

P. Attic stock needs to be coordinated with facility staff.

DEMOLITION
A. Demolish only walls necessary, per the comparison of the existing conditions and new plans, so that all
walls possible remain.
B. Reuse doors, frames, hardware, ceiling tile, grid, and lights when applicable if existing meet guidelines.
C. Demolish finishes as necessary, per the plans and descriptions provided and attached hereto.
D. Coordinate demolition of power, life safety, sprinklers, mechanical/plumbing, lighting, and security systems
and equipment as needed to provide a complete and working design for tenant spaces.

CEILING / LIGHTING / ACOUSTICS
A. Condition of ceiling tile and grid to be assessed by designer. If these materials meet the minimum
qualification specification and are in acceptable condition, existing ceiling tile and grid shall remain. Patch
and repair grid as needed to accommodate demolition of walls, provided that replacement grid matches
existing. Replace any damaged or discolored tiles to match existing. When replacing existing tiles, use
tiles from other existing enclosed rooms to obtain replacement tiles, and group new tiles together to
reduce a spotty, inconsistent appearance in the ceiling plane. If determined that existing ceiling grid/tile is
not applicable and needs to be purchased from the State contract.
B. Provide/maintain a general light level as set by the current Illuminating Engineering Society of North
America (IESNA) at the work surface throughout open office areas, in circulation corridors, and in all
rooms unless noted otherwise. In areas where pendant mounted direct/indirect fixtures are indicated,
space fixtures at appropriate distances to maintain a general light level as set by the current Illuminating
Engineering Society of North America (IESNA). See, High Performance Building requirements (HPBr)
located on the Office of the State Architect (OSA) website for specific fixture and control requirements.
C. Existing lighting that has been confirmed to remain shall be cleaned and re-lamped after construction. All
lamps shall be the same color temperature. Coordinate the appropriate lamp color with STREAM
(typically 4100k). See HPBr for additional requirements.
D. Provide 15'-20' whip at all above-ceiling junction boxes for power pole connections.
E. If STREAM determines that sound masking is to be integrated into the building, coordinate and provide
power for the system. The system shall have equal distribution throughout and adjustability by zone for
open office work area. Separate office suites or agencies shall be zoned separately. Full floor open office
areas shall have a minimum of four (4) zones. Speakers for the system shall be mounted above the
ceiling plane. Coordinate with the STREAM and furniture vendor on system details and locations.
F. Minimum ceiling heights shall be 8'-6" in enclosed rooms; and 9'-0" in open work areas.
G. When laying out fixtures in offices and closed rooms, maintain a standardized configuration for an
organized appearance.

ELECTRICAL AND COMMUNICATION
A. Provide and install conduit, conductors, pull wires, boxes, cover plates, devices, etc., for all outlets.
B. Verify the color and finish of standard devices within the building and match device standards. All devices
shall be a consistent color and installed at ADA applicable height. When multiple switches are located in
same area, gang together under one switch plate.
C. Contractor shall be responsible for all cutting and patching required of/by his work.
D. Contractor shall be responsible for coordination and electrical connections to power poles for furniture
(systems furniture, conference/training tables, etc.). Coordinate with furniture vendor for specifics on
wiring configurations. For general planning purposes, provide one (1) circuit per every two (2) standard
workstations.
E. Provide one (1) voice/data outlet per standard workstation.

F. Provide two (2) duplex power outlets and one (1) voice/data outlet per standard office.

G. Provide three (3) duplex power outlets and two (2) voice/data outlet per Commissioner’s office.

H. Provide two (2) duplex power outlets and one (1) voice/data outlet per enclave.

I. If not indicated on a typical enlarged plan, all enclosed rooms (such as storage and file rooms) to have, at minimum, two (2) convenience duplex power outlets or minimum to meet codes where applicable.

J. Coordinate location and mounting height of outlets with STREAM.

K. Lighting and controls shall be properly zoned. Separate light switches for hard wall spaces shall be provided with occupancy sensors. See HPBr for additional requirements.

PARTITIONS

A. Prep all existing perimeter sill walls and core walls throughout space to receive an eggshell or satin paint finish.

B. All new hard wall office partitions to be 5/8” drywall and 3-5/8” metal studs, unless otherwise specified with sound attenuation blankets. Provide additional sound blankets above partitions on ceiling tile, 2'-0” on either side of all new or existing partitions not extending to the deck.

C. Partitions around all new or existing conference rooms, training rooms, break rooms, meeting rooms, and restrooms, shall extend to the deck. Provide sound attenuation blankets inside the partition, and seal all penetrations within partitions, including power/data boxes, and seal at the connection of the partition to the deck.

D. Connections from partition to mullion will require a connection that is acoustically deadening.

E. Locate rated or smoke separation partitions per code requirements.

F. Finish partitions completely to floor using designated rubber/vinyl base.

G. Concrete block walls shall be furred-out to accommodate a finished surface of painted drywall, and shall be insulated to meet codes for energy efficiency.

GLAZING

Front walls of offices, enclaves, break rooms, and conference rooms shall have a 3’-0” wide sidelight with ¼” clear tempered glass in 2” welded hollow metal frame with a solid core MDO door (match building standard and code compliant), unless otherwise approved by STREAM Director of Workplace Strategy and Planning. Provide allowance for etched film on 3’-0” wide full height sidelights. Framing for glass sidelights and windows shall be integral with door frames and not separated by drywall.

DOORS AND FRAMES

A. Interior doors shall match building standard height and finish. At a minimum, all doors shall be solid core, and 7’-0” in height.

B. Interior door frames shall be 2” welded hollow metal steel, painted, with 3’-0” sidelight.

C. All hardware shall match existing building standard finish. At a minimum, all doors shall include the following: door stops, silencers, mortised ball bearing hinges, and lever hardware per ADA requirements. All office doors shall include a coat hook at standard height. In addition, pairs of doors shall include the following, as determined by function: dummy trim, closer coordinators, flush bolts, dust proof strikes, and ball catch (as required).

D. Where identified for special security, doors may require card reader entry devices. Designer to coordinate with STREAM and prepare hardware schedule per required locking conditions.

E. If applicable, provide “Best”, heavy duty, cylindrical hardware within suite and heavy duty mortised lockset at suite entry doors.

F. Provide locksets on the following doors: offices, enclaves, conference rooms, communication rooms, utility rooms, storage/file rooms, and network rooms.
G. All main entrance public access doors shall be metal frame glass, storefront, entrance type, full light with double-pane glass. Exterior exit doors shall be metal framed with insulated flush type metal door. Doors must be equipped with commercial grade closers and hardware. Doors shall meet all code egress requirements.

FINISHES

A. Applicable finishes are to be purchased from State contract.
B. Carpet shall be modular tiles laid with low VOC adhesives. Carpet shall generally be laid in a monolithic, ashlar or brick laid pattern. Carpet shall not be laid in a quarter turn pattern unless specifically noted.
C. For future renovation work in tenant spaces, use Furniture Lift System to replace carpet components.
D. Provide vinyl composition tile (VCT) in network closets and break rooms.
E. Provide 4” coved rubber base in areas specified to receive new carpet or VCT. All base shall be continuous roll base (not segmented).
F. Prime and paint walls, frames, and columns throughout the space. All walls to receive a minimum of one (1) prime coat and two (2) finish coats of eggshell or satin finish. Door and window frames shall receive semi-gloss finish. Drywall ceilings shall receive flat finish. Neutral color to be Sherwin Williams, Panda White #6147 or approved equal, unless in a non-renovated building where paint color should match existing building standard.

G. Where identified as laminate finish on casework, use color core laminates for exposed door and drawer surfaces and solid surface for counter tops and splashes. Toe kicks shall have laminate face and no rubber base. The underside of all vertical laminate panels in wet areas shall receive a laminate or PVC edge to prevent water from wicking up through laminate panel substrates. Counters and splashes shall be thoroughly caulked to walls and countertops using clear silicone caulk.

H. The building shall include building standard window treatments on the exterior tenant windows. Vertical blinds are not acceptable. If existing window treatments are in good working order and appearance, they may be reused. Window treatments must be cleaned prior to tenant move-in.

BREAK ROOMS

A. Finishes: VCT floor tile, plastic laminate base and wall cabinets.
B. Provide copper waterlines for water filtration systems, coffee maker, and refrigerators.
C. Provide double bowl, under mount stainless steel sink with hot/cold water. Identify standard location for small water heaters.
D. Provide dedicated outlets for refrigerators, paper towel dispenser, three (3) microwaves, and two (2) coffee makers. Provide three (3) wall duplex outlets at 42” AFF in kitchen area. Provide two (2) dedicated outlets for vending machines. Provide two (2) additional wall outlets at other walls for convenience purposes.
E. All break rooms shall have 150 square feet of suspended drywall ceiling clouds at seating area and solid surface countertops and backsplashes at kitchen area.
F. All break rooms shall have a minimum of 12 linear feet of 1/2 height framed glass windows in 2” welded hollow metal frames with top of frame height to match top of cased opening. Glass to be ¼” clear, tempered glass wall with film. Provide etched film on 50% of glass.
G. Provide decorative pendant lighting at soffits unless directed by the STREAM to do otherwise.
H. Appliances and dispensers are to be electric with stainless steel finishes.
I. Provide three (3) water valve boxes in wall.
J. All break room entrances shall be hollow metal cased openings with connected glazing side light system, unless approved by STREAM Director of Workplace Strategy and Planning.
COPY ROOMS/AREAS

A. Finishes: VCT flooring, plastic laminate base, wall cabinets, and countertop.

B. Provide a minimum of two (2) wall duplex outlets (one (1) circuit), one (1) dedicated outlet for copier, and two (2) voice/data outlets at 42” AFF in work area.

TELECOM ROOMS (not applicable to Server Rooms- separate meeting to discuss Server Room Specifications)

A. Finishes: VCT flooring and 4” rubber base.

B. Walls shall extend to deck; no lay-in ceiling.

C. Provide ventilation or additional a/c to cool equipment as required. Stand-alone split mechanical unit is preferred. If stand-alone is not possible, then the space can be served from the central HVAC, provided there is logic in the EMS to maintain minimum required temperature at all times. Other strategies that maintain minimum required temperature will be considered.

D. Provide at least a 3” conduit from the interior telecom room or non-common space to an exterior right of way or utility easement for new service provider connection. Coordinate with service provider.

E. Each telecom room should be at least 8’ x 10’ in size, with one room per 15,000 square feet of usable space. Telecom rooms shall align vertically if in a multiple-floor facility.

F. Doors to telecom rooms shall open out into the corridor, if possible. If this is not possible, then locate the door in an area with minimal clearance impact or increase room size in order to not impact room capacity.

G. Provide at least two (2) dedicated quad outlets, 110 volt, 20 amp circuits, in addition to the normal service outlets.

H. The State cabling contractor shall install a grounding bus bar and place correctly-sized conductor back to the main panel for facility manager or building owner to connect or coordinate. If renovation/new construction connection and coordination is to be done by electrical contractor.

I. Telecom rooms do not include space for building/energy automation/management, life safety controls, or security, audio, or CC/CATV systems.

J. Telecom rooms are not to be shared with a moisture source or electrical distribution panels.

K. Telecom rooms shall have a 4’ x 8’ sheet of fire rated plywood mounted to wall, which is to be provided and installed by STREAM cabling contractor.

CONFERENCE ROOMS

A. All conference rooms that seat eight people or more shall have two power and voice/data outlets recessed flush mounted floor box. Larger Conference rooms of greater than eighteen (18) people shall have four (4) power and two (2) voice/data outlets recessed in a flush mounted floor box. Coordinate placement with furniture to minimize unsightly cable distribution. Alternate deduct: In lieu of recessed floor boxes, provide equal power and other connections in walls.

B. Lighting switching shall provide flexibility for a variety of scene configurations for different presentations and meetings. Fixtures shall provide both ambient lighting to the table as well as accent wall wash lighting at the perimeter of the room, to be connected independently.

C. Coordinate placement of switches, audio visual screens, furniture, and doors so as to avoid conflicts when components are in use. Switches are to be placed opposite of erasable marker board.

D. All conference rooms that seat eight (8) or more people shall have twelve (12) linear feet of full height framed glass partitions as noted above for break rooms.

E. One wall is to be Erasable marker board paint, low VOC, with a drywall finish level 5.

F. All wall hung equipment and device placement to coordinate and have proper support backing to be installed within wall.
RESTROOMS
A. All restrooms shall be equipped with liquid soap dispensers and mirrors, and either paper towel dispensers or hand blow dryers, to match building standard. Dispensers are to be stainless steel, electric, or battery powered.
B. Refer to the International Building Code (IBC) for required number of fixtures, based on building occupancy.
C. Immediately prior to the date of occupancy, all restroom fixtures to receive final new construction cleaning.
D. Provide a floor drain in each restroom if not existing, and depending on extent of renovation add drain per approval by STREAM.
E. See HPBr for specific fixture requirements.

JANITOR CLOSET
A. Provide storage for equipment, materials, and supplies.
B. Provide a floor mount service sink with hot and cold water and a floor drain.

BUILDING INTERIOR
A. Coordinate the general design with furniture configuration and placement to eliminate exposed wires and minimize power whips.
B. Provide accessible chilled drinking fountains as per code requirements.
C. Provide elevators for spaces that are one floor above/below the street level. All elevators shall conform to accessibility standards and applicable codes. The proposer shall specify the capacity, size, and type of elevator equipment, and the adequacy of service as to the number of cars, speed, and size shall be subject to final determination by the State Department of Labor.
D. Designer to confirm all floors have a load capacity adequate to meet state requirements for agency occupants. In no event shall load levels fall below code requirements.
E. Provide evacuation maps and other interior signage as required and requested by STREAM. Coordinate locations with the STREAM.

CODE REQUIREMENTS
All work shall be in compliance with all applicable federal, state, and local codes, as identified by the authorities having jurisdiction.
A. The Owner intends to provide roofing products that maximize the life of State roofs. Products alone do not make a good roof. A good roof requires: appropriate design; suitable materials (vapor retarders, insulations, fasteners, membranes, flashings, accessories, perimeter metal); an adequate budget; a qualified, well-financed, trained applicator knowledgeable and experienced with the system specified; field quality assurance; and, a solid relationship between roof manufacturer and applicator.

B. To facilitate the above stated intent, the Owner has developed the following design guidelines:

1. Provide one-eighth inch per foot or greater slope for drainage on existing structures. One-quarter inch per foot or greater is required on new construction. Crickets shall be two (2) times height of slope.

2. Ensure that roof drains are located at low points in the roof and not adjacent to columns, particularly for steel deck construction.

3. Wherever possible slope the structural elements rather than using tapered insulation. If re-roofing existing structure and positive slope is not present, consider tapered insulation and/or crickets.

4. Whenever a roof plane intersects a vertical wall or other vertical surface, or an expansion joint is required a minimum of an eight inch rise in height is required, and a twelve inch rise is preferred.

5. The following roofing products are preferred, though other types can be submitted for evaluation with formation and recommendations:
   a. Shingles or metal on adequately sloped roof befitting the overall building design;
   b. Fully adhered 60 mil EPDM single membrane roof system;
   c. Mechanically fastened 60 mil EPDM single membrane roof system;
   d. Ballasted 60 mil EPDM single membrane roof system (must be checked for additional roof load and wind velocities must be checked to prevent the ballast from becoming air born); or,
   e. Modified Bitumen Roof System (two ply system with a heavy base sheet and Class “A” granulated or metal-surfaced cap sheet.)
   f. Coal Tar

6. Ensure that parapet walls are watertight and roof scuppers are provided for emergency relief in accordance with IBC 1406.

C. To facilitate the above stated intent, the Owner has developed the following contractor qualifications guidelines:

1. The roofing subcontractor and the manufacturer must work together and be considered as one and the same certifying and providing:
   a. Roofing products for the purpose of designing, developing and marketing a complete roofing system.
   b. Recommendations, specifications, and details for the roofing system materials and installation.
   c. Training for and approval of applicators of the roof system.
   d. Technical assistance to applicators during the application of the roof.
   e. Approval and preparation of shop drawings for the roof system.
   f. A qualified technical representative employed by the Manufacturer for the final inspection, and all inspections required by the Roofing System Warranty.
   g. All materials used with the roof system must be approved by or purchased from the roof manufacturer.
2. In order to meet the above criteria roofing manufacturers must submit the following information for approval by the Designer in order to be considered as an approved equal:
   a. A list of approved applicators indicating name, address, phone number, and year first licensed as an applicator.
   b. Application form, required by the Manufacturer, establishing the past experience, reputation, and financial stability of the roofing subcontractor.
   c. Training session(s) taught by the manufacturer and certification that the installers have attended and passed the training program.
   d. Indication that the roofing subcontractor has displayed adequate experience and knowledge to be licensed by the manufacturer to install the roofing system. The license must be renewed annually. The on-the-job superintendent must be licensed as a qualified installer.
   e. A comprehensive list of references indicating the name, location, address, phone number approximate number of square feet and name of Designer and/or Owner of the project.
   f. Certification that the company has been manufacturing the considered product for five (5) years or more.
   g. A letter, signed by a company representative authorized to legally bind contracts, stating that they have reviewed and accept all terms and conditions as stated, without modifications, in the Roofing System Warranty, Section 01 78 36.