#### DESIGN PROFESSIONAL CONTRACT

**TO BE USED FOR**

**CM/GC CONSTRUCTION PROJECTS**

**BETWEEN**

**OWNER:**

***BOARD OF REGENTS OF THE***

***UNIVERSITY SYSTEM OF GEORGIA***

**AND**

**DESIGN PROFESSIONAL:**

***LEGAL DP FIRM NAME***

**For the Use and Benefit of**

#### USING AGENCY:

***GEORGIA INSTITUTE OF TECHNOLOGY***

**PROJECT TITLE: *PROJECT DESCRIPTION***

**INCLUDES: Form of Contract** Contract-1 to Contract-4

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**DESIGN PROFESSIONAL SERVICES CONTRACT(For CM/GC Project Delivery)**

**GT AiM Project No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ / Bid-Contract No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Project Name/Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

This Design Professional Contract (hereinafter “Contract”) is made this \_\_\_\_\_\_\_ (day) of \_\_\_\_\_\_\_\_\_\_\_\_\_ (month), 20\_\_\_ (year) between the ***BOARD OF REGENTS OF THE UNIVERSITY SYSTEM*** ***OF GEORGIA***, with an address at ***270 Washington Street, Atlanta, Georgia 30334***, hereinafter “Owner,” for the use and benefit of ***Georgia Institute of Technology***, with an address at ***955 Fowler Street, NW, Atlanta, Georgia*** ***30332-0410***, hereinafter “Using Agency,” and **Legal DP Firm Name, Physical address – PO box not acceptable, Phone: Email:**  hereinafter “Design Professional.”

Design Professional’s SSN or Business FEIN: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Georgia State Registration Number of the Registered Professional sealing the Construction Documents: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. AMOUNT OF GMP COST LIMITATION: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. OWNER’S AUTHORIZED AGENT: Jim James, Vice Chancellor for Facilities

 3. NAME OF DESIGN PROFESSIONAL OF RECORD: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. FEES.

1. Basic Design Services Fee: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (amount includes reimbursables).

b. Basic Construction Contract Administration Services Fee: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (amount includes reimbursables).

c. Additional Services Fees (at Contract execution included in Basic Services Fee): $\_\_\_\_\_\_\_\_\_\_\_\_\_\_(See Exhibit A).

d. Additional Services Hourly Rates: (See Exhibit A-1)

e. Fees for design and administration of Change Orders that require design or redesign activities shall be as follows:

**Percentage-Numeric** % for design and **Percentage-Numeric** % for Construction Contract Administration multiplied by the cost of the work of the change, unless the fee is not commensurate with the services required, in which case payment shall be based on the hourly rates shown in Exhibit A-1 plus reimbursable expenses as set forth in Article 4.1.3 or on agreed upon lump sum. PROVIDED that the Design Professional shall have given notice in writing prior to execution of the extra services due to the Change Order, and the Owner shall have consented in advance in writing, and PROVIDED FURTHER that no fees shall be paid for redesign accomplished under the Design Professional’s Limited Design Warranty. (Paragraph 1.2.4.5.)

f. The above fees include the following components to be designed and incorporated by Component Change Orders: *(List)*: N/A

5. CM/GC DESIGN COORDINATION MEETINGS AND SITE VISITS. The total number of visits by the Design Professional and consultants during the Design, Pre-Construction, and Construction Contract Administration Phase included in the fee for Basic Services are listed on Exhibit B. Design Professional represents to the Owner that the amount of Site Visits are adequate to perform all the obligations required of him by this Contract, including those services and inspections that are normally required of the Building Official.

6. APPROVAL OF CONSTRUCTION DOCUMENTS. When the design is completed with all review comments incorporated, the Design Professional shall furnish two complete sets of Construction Documents including plans and specifications to the Owner and shall furnish one set each to the Using Agency and to the Program Manager (if any) . The Design Professional must wait to receive the written approval of the Owner. (*See also* Para. 2..2.1.3)

7. SCHEDULE. The Design Professional shall provide the services required by this Contract in conformance with the approved Preliminary Design and Construction Schedule. The Design Professional agrees to complete the Construction Documents [x]  not later than or [ ]  not later than       calendar days following execution of this Contract. Individual Milestones for completion of construction documents will be mutually agreed by the Owner and Design Professional.

8. REPRESENTATIONS. The Design Professional represents the following:

 a. It is an organization of professionals experienced in the type of services the Owner is engaging the Design Professional to perform;

 b. It is authorized and licensed to provide professional services in the State of Georgia;

 c. It is qualified, willing, and able to perform professional services for the Project;

 d. It has the expertise and ability to provide professional services that will meet the Owner's objectives and requirements; and

 e. It has the expertise to comply with the requirements of all governmental, public, and quasi-public authorities and agencies having jurisdiction over the Project.

9. CERTIFICATES. By executing this Contract, the Design Professional agrees that it has reviewed the certificates required by the Design Professional Services Requirements and the Construction Documents, which it must execute with reference to this Project. The Owner and Design Professional agree that the required certifications do not require knowledge, services, or responsibilities that are beyond the scope of this Contract.

10. BUILDING OFFICIAL. The Owner and Design Professional acknowledge that there is no state building official other than for Life Safety, Elevator, Building Accessibility, and Fire Safety rules, regulations, and codes. Local government officials (e.g. county and municipal) have no enforcement powers over state authorities except with regard to certain Georgia Environmental Protection Division permits. Road projects may be delivered pursuant to DOT’s General Permit GAR 100001 or GAR 100002, which are available for use by general contractors and are regulated directly by EPD. *See* 2009 Op. Att’’y Gen. 2009-6 The Design

Professional, under the supervision of the Interim Vice Chancellor for Facilities, acts as the Building Official for Projects owned by the Board of Regents. (*See* Paragraph 1.2.4.12.)

11. PROJECT DEVELOPMENT FILE. The Design Professional shall not proceed with the performance of any professional services until he shall have received from the Owner a copy of the Project Development File or Program that has been approved by the Office of Planning and Budget, State of Georgia.

13. ENERGY EFFICIENCY AND SUSTAINABLE CONSTRUCTION ACT OF 2008. This Project [x]  is or [ ]  is not subject to the provisions of the Energy Efficiency and Sustainable Construction Act of 2008 (“Energy Act”). Projects subject to the Energy Act require commissioning, water-use reduction, and use of not less than 10% of Georgia products. Commissioning as required by the Energy Act shall be performed by [ ]  a third party commissioning agent [ ]  the Design Professional [ ]  a commissioning agent to be retained by the Design Professional, who shall commission the items listed on the Commissioning Checklist included in the Forms Packet. For information regarding the Energy Act requirements, Design Professional shall refer to the *Energy Efficiency and Sustainable Construction Standards for State Buildings* as promulgated by the Georgia Department of Community Affairs, a copy of which is available at <http://www.dca.ga.gov/development/constructioncodes/publications/Energy-Efficiency-and-Sustainable-Construction-Standards-FINAL.pdf>.

14. BOYCOTT OF ISRAEL. The Design Professional certifies that it is not currently, nor will it engage in during the duration of this contract, a boycott of Israel as defined in the Official Code of Georgia (O.C.G.A. 50-5-85).

15. ENTIRE CONTRACT. The Design Professional Services Requirements and all Exhibits including the Georgia Tech Architecture and Engineering Design Standards for Building Technology (GT Yellow Handbook) are incorporated into and made a part of this Contract by reference. This Contract represents the entire and integrated Contract between the Owner and the Design Professional and supersedes all prior negotiations, representations or contracts, either written or oral. This Contract may be amended only by written instrument signed by both the Owner and the Design Professional.

[Signatures Begin on Next Page]

[Remainder of Page Intentionally Left Blank]

**IN WITNESS WHEREOF** the parties hereto, by their duly authorized representatives, have executed this Contract the day and year first written above.

**DESIGN PROFESSIONAL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

(Legal DP Name)

ATTEST:

 (L.S.) By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (L.S.)

 , Secretary , President

**(affix seal over secretary’s signature)**

**(If not a corporation, signature must be notarized)**

**Approved: *GEORGIA INSTITUTE OF TECHNOLOGY* (A Unit of the University System Of Georgia)**

By:

 Chuck Rhode, Vice President

 Facilities Management

Witness: N-A

 N-A

 Print Name/Title

**Board of Regents of the University System of Georgia (Regents)**

By:

 Sharon Ferguson Pope

 Assistant Vice Chancellor

 for Design and Construction

Witness:

 Teresa Corso

 director of contracts & service

**DESIGN PROFESSIONAL SERVICES REQUIREMENTS**

*FOR CM/GC CONSTRUCTION DELIVERY*

THE **“*TABLE OF CONTENTS”*** AND **“*GENERAL REQUIREMENTS”*** ARE A PART OF THIS CONTRACT AND

ARE INCLUDED BY REFERENCE. COPIES ARE AVAILABLE ON THE BOARD OF REGENTS WEB PAGE

AT: <http://www.usg.edu/facilities/resources/contracts_and_agreements>

##### EXHIBITS

**BEGIN ON NEXT PAGE**

Exhibit A List and Description of Additional ServicesExhibit A-1 Schedule of Hourly Rates

Exhibit B Schedule of Anticipated Meetings & Site Visits

Exhibit C The Owner’s Project Development File or ProgramExhibit D Preliminary Design and Construction ScheduleExhibit E Design Professional’s Key Personnel and Consultants

Exhibit F Site Memorandum

Exhibit G Owner’s Instructions to Design Professionals

##### EXHIBIT A – LIST AND DESCRIPTION OF ADDITIONAL SERVICES

Additional Services shall be provided only upon prior written authorization by the Owner and shall be paid for by the Owner as provided in this Exhibit. The descriptions or scope of work of the Additional Services included in this Contract at Contract execution are to be included on this Exhibit A. Additional Services added after Contract execution, if any shall be added by Contract amendment.

***Note 1:*** *An Additional Service may include services in both the design and the construction contract administration phases. Each blank should be filled with one of the following three choices: (i) “Included,” for a service included within the Basic Design Services Fee or Basic Construction Contract Administration Services Fee; (ii) lump sum a dollar amount for an agreed Additional Service not included in the Basic Design Services Fee or Basic Construction Contract Administration Services Fee; or (iii) “N/A” for a service not included in the Contract. Each dollar amount must be followed by an indication whether it is a fixed price lump sum (FP) or a guaranteed maximum price (GMP). Allowable reimbursable expenses for the selected Additional Services shall be included in the description of scope of work description. Reimbursable expenses are additional to a fixed price lump sum fee, but are included within a GMP.*

***Note 2:*** *In the event the actual construction of the Project is not commenced, no Additional Services related to CM/GC Construction Contract Administration shall be incurred and a written modification to this Contract should be put into place.*

**ADDITIONAL SERVICES.**

**DESIGN CONTRACT DESCRIPTION**

 **ADMINISTRATION**

N/A

**Unit Prices for Additional Design Coordination Meetings:**

N/A

**Unit Prices for Additional Site Visits:**

N/A

**EXHIBIT A-1 – SCHEDULE OF HOURLY RATES**

The hourly rates to be included in the invoices shall be as follows:

**Prime Firm – Insert Design Professional’s Firm Name**

(Titles and rates as applicable to Design Professional)

**Title Individual Hourly Rate**

*Division Manager Name $190*

**Consultants**

(Titles and rates as applicable to Design Professional’s Consultants)

**Consultant 1**

*Principal Name $145*

These hourly rates may be adjustable annually on the anniversary date of this Contract subject to the customary salary policies of the Design Team member firms and the approval of the Owner.

**EXHIBIT B**

**SCHEDULE OF ANTICIPATED MEETINGS & SITE VISITS**

**(Included in Basic Services Fee)**

**Schedule A-1 (Part I)**: Anticipated Meetings with Owner/Using Agency to Develop and Review and Project Design

Meetings includes participation by architect, structural engineer, civil engineer, mechanical engineer, and electrical engineer and specialty consultants as needed)

*Schematic Design Phase*

 Meeting with Using Agency & City for Utility Service Coordination

Design Charette with Using Agency

 Conceptual Design Review Meeting with Using Agency

Schematic Presentation to Owner

*Preliminary Design Phase*

 Preliminary Design Review Meeting with Using Agency

 Preliminary Design Presentation to Owner

*Construction Document Phase*

 50% CD Review Meeting with Using Agency

GMP Document Review with Owner & Using Agency

100% CD Presentation to Owner & Using Agency for Approval

**Schedule B (Part II)**: Anticipated Site Visits to perform Construction Contract Administration or Building Official Visits

 (Based upon a month Construction Schedule)

*Standard Site Visits*

Architect \_\_\_\_ Site Visits

Structural Engineer \_\_\_\_ Site Visits

Civil Engineer \_\_\_\_ Site Visits

Mechanical Engineer \_\_\_\_ Site Visits

Electrical Engineer \_\_\_\_ Site Visits

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total Visits \_\_\_\_ Site Visits

##### EXHIBIT C – THE OWNER’S PROJECT DEVELOPMENT FILE OR PROGRAM

The Design Professional shall prepare and present the program to the Owner and Using Agency for review and approval.

The scope of the design professional services shall include but not be limited to:

*Architectural Programming/Cost Model*

*Existing Site Conditions Analyses*

*Measured Drawings of Existing Site Conditions as Needed*

*Conceptual Design*

*Schematic Design*

*Design Development Documents*

*Guaranteed Maximum Price (GMP) Documents*

*Construction Documents*

*Construction Administration*

*Interior Design*

*Furniture, Fixture and Equipment Layout*

*Signage*

*Mechanical, Electrical, Plumbing and Fire Protection*

*Detailed Cost Estimates*

*Code Review and Compliance*

*Commissioning Support*

*Structural Design*

*Civil Engineering*

*Wayfinding / Graphics (only to include Standard regulatory signage (restrooms, room numbers)*

*Quality Assurance/Quality Control (QA/QC)*

*Other requirements as per the Design Professional’s contract*

*Other services may also be included as Additional Services:*

*Landscape and Irrigation Design*

*Furniture, Fixtures and Equipment Selection*

*Audio/Visual/IT Design*

*Wayfinding/Graphics (enhanced)*

*Storm Water Management Permitting*

*Budgeting/Cost Management*

*LEED Documentation*

*Pass-through Services*

*\*Surveying - topo, location of structures/site utilities/trees, construction limits*

*\*Testing Agency – geotechnical evaluation, material testing, special inspections*

*\*Environmental – Phase I Environmental Site Assessment, GEPA*

\*The Design Professional will be responsible for procuring and contracting for the services of this firm.

##### EXHIBIT D – PRELIMINARY DESIGN AND CONSTRUCTION SCHEDULE

See attached.

##### EXHIBIT E – DESIGN PROFESSIONAL’S KEY PERSONNEL AND CONSULTANTS

Design Professional’s Key Personnel and Role Descriptions

Position Person Office Location

*Principal-In-Charge Name Kennesaw, GA*

Click here to enter text.

**Consultant’s Key Personnel and Role Descriptions**

***Consultant 1***

*Principal-In-Charge Name Atlanta, GA*

Click here to enter text.

##### EXHIBIT F – SITE MEMORANDUM

1. SITE INVESTIGATIONS.

(a) Plat of Boundary‑Line Survey. The Design Professional shall not undertake the preparation of plans and specifications until he has in its possession a plat of boundary‑line survey furnished to him by the Using Agency or the Owner. In the design of the work, the Design Professional must take into consideration all easements, rights‑of‑way covenants that run with the land, and any U. S. Government "controls" that are referred to on the plat of boundary-line survey.

THE DESIGN PROFESSIONAL WILL DESIGN NO WORK EXTENDING BEYOND THE BOUNDARIES SHOWN ON THE PLAT OF BOUNDARY-LINE SURVEY WITHOUT WRITTEN CONSENT OF THE OWNER IN ADVANCE.

(b) Plat of Survey of Site Conditions. The Design Professional shall obtain a complete and accurate survey of site conditions. Said survey must give the grades and lines of streets, pavements, and adjoining properties, contours of the Site, and full information as to sewer, water, gas, electrical service, telephone service, and any other utilities. The survey may include existing vegetation at the option of the Using Agency. The Design Professional must not rely upon as-built documents of existing structures for fulfillment of its contractual obligations to obtain the plat of survey of site conditions.

The plat of survey of site conditions shall be dated and must bear the signature, seal, and registration number of the person who made the survey. In addition, a certificate exactly in the following words must appear on the plat of survey of site conditions:

CERTIFICATE OF SURVEYOR

PLAT OF SURVEY OF SITE CONDITIONS

*I certify that this plat is correct, that it gives a true representation of the conditions of the property, that all building improvements and objects are shown to scale at actual locations on the property, and that it gives a complete delineation of the grades and the lines of streets, pavements, and adjoining properties, contours of the site, and full information as to sewer, water, gas, electrical service, telephone lines, and other utilities. I certify further that I have examined maps filed pursuant to Ga. Laws 1969, pp. 50, et. seq., as amended, and that all gas lines shown on the site or on adjoining property within one thousand feet outside the boundary of the site as of the date of my examination,* [insert date]*, are delineated on the aforesaid plat. I certify further that all electric power lines carrying in excess of 750 volts and located on the site or within 300 feet outside the boundary of the site as of the date of this certificate are delineated on the aforesaid plat.*

In the event that any grading or site work is proposed to be done by any party or agency other than the Contractor who will construct the Project, the work must have been completed prior to obtaining (1) the Plat of Survey of Building Site Conditions and (2) the report of subsurface investigations. This is because it is indispensable that the Proposal Documents show topography and all other site conditions in strict conformity to the physical state of the site and any existing work at the time proposers will submit their proposals.

(c) Report on Subsurface Conditions. A report on subsurface investigations shall be obtained for all sites unless the work is limited to remodeling of, or construction of betterments to, the interior of an existing structure. The Design Professional must coordinate the work of the structural engineer and the geotechnical engineer, as well as any testing laboratory pertaining to the scope of the investigations that these experts recommend in order to complete these documents. The geotechnical engineer should prepare the report on subsurface conditions. In general, the report should cover a test boring program, seismic exploration (if appropriate), a laboratory testing program, and electrical resistivity testing. After the initial results of the subsurface report (Stage One Statement) are complete, the structural engineer should complete the preliminary design of the foundations and subsurface structures. This design should be provided to the geotechnical engineer, who shall then conduct such additional subsurface investigations as the geotechnical engineer shall deem appropriate. Upon completion of the Stage One Statement, the structural engineer shall make such changes to the structural design as the structural engineer deems appropriate, subject to the approval of the Design Professional.

2. INCLUSION OF SUBSURFACE DATA IN PROPOSAL PACKAGES. When the Design Professional is on notice regarding unsuitable fill or rock, the Design Professional should give immediate notice in writing to the Using Agency and Owner. The Design Professional should include as a separate line item in its Statement of Probable Construction Cost the cost to remove and replace the fill or rock, and should make provisions in the Contract for the CM/gc to include in its base price an amount to remove the estimated quantities. The unit prices established should be based upon the Design Professional’s experience in the area and verified by communicating with local contractors. The Design Professional should also compute, to the best of its professional abilities and judgment, the amount of unsuitable conditions probable to be found, and obtain from the geotechnical engineer the following opinion:

*Based upon an analysis of test borings made at the site in a reasonable number to permit the forming of a judgment and resolving doubtful signs of rock in favor of the assumption that all signs of rock represent actual conditions, it is (my) (our) opinion and best judgment that the following quantity of rock will be encountered:* [amount to be inserted by registered geotechnical engineer]*.*

The Design Professional must include language in the Supplementary General Conditions putting the proposer on notice of the existence of such unsuitable conditions. The following is sample language that should normally be used when the Design Professional has knowledge of unsuitable subsurface conditions:

*UNSUITABLE FILL*

*Proposers are to include in the base price the cost of excavating \_\_\_\_\_\_ cubic yards of unsuitable fill material. Payment will be made for all unsuitable fill material in excess of \_\_\_\_\_\_\_\_ cubic yards at the net unit price of \_\_\_\_\_\_\_\_\_\_\_ per cubic yard, which includes all overhead and profit. In the event that it is necessary to excavate less than \_\_\_\_\_\_ cubic yards of unsuitable fill material, the Owner will take a credit of \_\_\_\_\_\_\_\_\_ per cubic yard. The unit price of \_\_\_\_\_\_\_ per cubic yard shall include the excavation, haul off, and disposal of all unsuitable fill material. The Design Professional shall be responsible for calculating the amount of all unsuitable fill material removed. Measurement of unsuitable fill material shall be calculated on the basis of in-place compacted fill material and not expanded hauled fill material.*

*Proposers are to include in the base price the cost of importing \_\_\_\_\_ cubic yards of additional fill material to the site. Payment will be made for all fill material in excess of \_\_\_\_\_\_\_\_ cubic yards at the net unit price of \_\_\_\_\_\_\_\_\_\_\_ per cubic yard, which includes all overhead and profit. In the event it is necessary to haul in less than \_\_\_\_\_\_ cubic yards of fill material, the Owner will take a credit of \_\_\_\_\_\_\_\_\_ per cubic yard. The unit price of \_\_\_\_\_\_\_ per cubic yard shall include the haul in, placement, and compaction of fill material in accordance with the project specifications for fill material. The Design Professional shall be responsible for calculating the amount of all fill material brought to the site. Measurement of cubic yards of fill material or excavation shall be calculated using compacted in-place fill material and not expanded hauled fill material.*

The following is sample language for rock:

*ROCK*

*Proposers are to include in the base price the cost of excavating \_\_\_\_\_\_ cubic yards of [RIPPABLE] [MASS] [TRENCH] [CAISSON] rock. Payment will be made for all [RIPPABLE] [MASS] [TRENCH] [CAISSON] rock in excess of \_\_\_\_\_\_\_\_ cubic yards at the net unit price of \_\_\_\_\_\_\_\_\_\_\_ per cubic yard, which includes all overhead and profit. In the event it is necessary to excavate less than \_\_\_\_\_\_ cubic yards of [RIPPABLE] [MASS] [TRENCH] [CAISSON] rock, the Owner will take a credit of \_\_\_\_\_\_\_\_\_ per cubic yard. The unit price of \_\_\_\_\_\_\_ per cubic yard shall include the excavation, haul off, and disposal of all [RIPPABLE] [MASS] [TRENCH] [CAISSON] rock, as indicated in the Contract Documents, and replacement with earth as required by {INSERT SPECIFIC SPECIFICATION SECTION} of the specifications and compacted as required by {INSERT SPECIFIC SPECIFICATION SECTION} of the specifications. The Design Professional shall be responsible for calculating the amount of all [RIPPABLE] [MASS] [TRENCH] [CAISSON] rock removed. Measurement of [RIPPABLE] [MASS] [TRENCH] [CAISSON] rock shall be calculated on the basis of in-place compacted material and not expanded hauled material. The Contractor agrees to be bound by the Design Professional’s determination of the quantity of all rock removed****.***

3. STAGE ONE AND STAGE TWO STATEMENTS.

(a) Stage One Statement of Geotechnical Engineer:

*I, the undersigned registered geotechnical engineer, have made a visual inspection and subsurface investigation at the project site and, based upon my analysis of (i) soil and test borings, (ii) geophysical observations and testing, (iii) surveys, and (iv) electrical resistivity tests made as I deemed necessary in my professional judgment to be suitable or advisable to the end that all subsurface conditions that might necessitate redesign or Change Orders during construction if not taken into consideration in the design of the work or provided for in the Proposal Documents, I find that:*

*(1) The following quantity of rock will be encountered: ;*

*(2) Unsuitable soil conditions for foundations will (not) be encountered;*

*(3) Springs or ground water will (not) be encountered;*

*(4) Fill areas will (not) be encountered and additional fill material will (not) be required;*

*(5) Deep foundations may (not) be necessary and the type of foundation recommended is ;*

*(6) That there is (not) suitable material elsewhere on the site to be cut and filled to remedy unsuitable subsurface conditions; and*

*(7) There are other unsatisfactory site conditions as follows:* [None or list]*.*

(b) Stage Two Statement of Geotechnical Engineer: After the foundation design, including the fixed locations of trenches, ditches, caissons, etc, has been completed and provided to the geotechnical engineer, the geotechnical engineer should complete such further tests and analysis and reporting as he deems necessary and shall furnish the following statement:

*I, the undersigned registered geotechnical engineer, have made a visual inspection and subsurface investigation at the project site, and have been furnished with the architectural and engineering site plan dated \_\_\_\_\_\_\_\_\_\_\_\_, a plumbing site plan dated \_\_\_\_\_\_\_\_\_\_\_\_, an electrical site plan dated \_\_\_\_\_\_\_\_\_\_\_\_, and a transmittal letter dated \_\_\_\_\_\_\_\_\_\_\_\_ informing me that the aforesaid plans (a) encompass and (b) delineate the final fixed locations of all areas in which (1) trenches, (2) ditches, (3) excavations, (4) foundations, (5) elevator shafts, and (6) water wells and drainage structures will be dug, excavated, or drilled to receive new utilities or new work for the project. I hereby confirm that I have made such further subsurface analyses as are necessary in my professional judgment and have supplemented and revised my Stage One certification based upon my analysis of (i) soil and test borings, (ii) geophysical observations and testing, (iii) geotechnical surveys, (iv) electrical resistivity imaging, profiling, and sounding, (v) ground penetrating radar, (vi) seismic refraction and reflection testing, etc., made as I deemed necessary in my professional judgment to be suitable or advisable. I find that all subsurface conditions have been investigated that might necessitate redesign or change order during construction (a) if not taken into consideration in the original design of the work and (b) if not provided for in the original Proposal Documents.*

4. SITE MEMORANDUM. The Site Memorandum of the Design Professional should include the information developed above in a single document reporting the following:

(a) The Plat of Survey of Building Site Conditions and surveyor’s certifications;

(b) The Report of Subsurface Conditions;

(c) The Stage One and Stage Two Statements and certifications of the Geotechnical Engineer

(d) The applicable Supplementary General Conditions, including unit prices and estimated quantities;

(e) A current Statement of Probable Construction Cost; and

(f) The following certification:

*I hereby certify, to the best of my professional skill, knowledge, information, and belief that the above plats, reports, Statements and certifications of consulting professionals are accurate, and that the unit prices and estimated quantities are my present opinion as to the costs probable to be incurred in the construction of the project pursuant to the design, drawings and specifications.*

Design Professional Signature and Seal

**EXHIBIT G**

**OWNER’S INSTRUCTIONS TO DESIGN PROFESSIONALS:**

Board of Regents Building Projects Procedures Manual:

<http://www.usg.edu/building_project_procedures/>

For Projects that are assigned to GSFIC for Management of the Construction phase, the Design Professional shall follow the provisions of the GSFIC Process Guide for Construction Phase. The GSFIC Process Guide is available on-line at <http://gsfic.georgia.gov/construction-agreements-agency-request-form>

**FORMS PACKET**

**Includes:**

1. Statements of Probable Construction Cost Format
2. Georgia Security and Immigration Compliance Act Affidavits
3. Advice on Construction Progress for Certain Change Orders
4. Certificate of Material Completion
5. Certificate of Final Completion
6. Capital Asset Accounting
7. Commissioning Checklist

##### STATEMENT OF PROBABLE CONSTRUCTION COST FORMAT

# INSTRUCTIONS:

**CSI UNIFORMAT™ COST CLASSIFICATION**



1. All Statements of Probable Construction Cost shall be provided using the Construction Specifications Institute (CSI) UniFormat™ classification of construction systems and assemblies. The terms *systems and assemblies* refer to physical parts of building projects with particular design solutions. Note, not all Classes or Subclasses may be used for a given project.

2. Statements of Probable Construction Cost shall be coordinated and consistent with project descriptions, plans, drawings, and specifications at the time the statement is prepared.

3. Statements of Probable Construction Cost shall be provided in a spreadsheet format. For each element in the Statement of Probable Construction Cost the information provided shall include:

* Description,
* Quantity,
* Unit of measurement,
* Unit cost or rate, and
* Cost

4. Lump sum costs for items are not acceptable. Assumptions (e.g., type, quantity, etc.) used to estimate costs for undeveloped design details must be documented.

5. When CM/GC Contract contains more than one building or type of work (e.g., new construction, renovation, addition, etc.) Statements of Probable Construction Cost shall be prepared and summarized for each.

6. For Concept Design Studies, the Statement of Probable Construction Cost should be prepared at Level 1 detail. For Schematic Design and Design Development phases, Statements of Probable Construction Cost should be at Level 2. For Construction Documents Statements of Probable Construction Cost should be at Level 3, or greater, detail.

7. If the Design Professional proposes to use a different, but similar, format to the UniFormat™ cost structure providing a comparable level of detail, the Design Professional shall submit the proposed structure to the Owner for written approval prior to its use.

**Capital Cost Accounting:** For purposes of proper capital asset reporting, the Design Professional shall include the following summary with each Statement of Probable Construction Cost.

**PROBABLE CAPITAL COST SUMMARY:**

The following cost estimates shall be included in the final Statement of Probable Construction Cost for the purposes of planning for capital asset accounting pursuant to the GASB 34 Accounting Statement:

1. BUILDING AND BUILDING IMPROVEMENTS: \* $ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. INFRASTRUCTURE: \*\* $ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. FF&E TO BE SUPPLIED BY CM/GC: \*\*\* $ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 =====================================

 TOTAL PROBABLE COST: $ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Notes:

\* 1. *Building and Building Improvements:* Include totals from CSI Categories/Major Groups A, B, C, D, F, G (only costs *inside* 5 feet of building footprint) and Z.

\*\*2. *Infrastructure:* Include totals from CSI Categories/Major Groups G (only costs *outside* 5 feet of building footprint); including relevant portions of G-10, G-2040, G-30 and G-40. It is anticipated that all of G-2010, 2020, 2030, 2050, 3010, 3020,3030, 4020, and 9010 would be considered Infrastructure.

\*\*\*3. *Fixtures and Furnishings (Including Equipment):* Include totals from CSI Category/Major Group E.

Upon completion of the project, the CM/GC will be certifying actual capital costs in a similar manner, following the cost breakdowns specified in the General Requirements for the CM/GC’s periodical estimates. The Design Professional, in reviewing the CM/GC’s Final Certification for Capital Cost Accounting, should refer to its final Statement of Probable Cost in making the Design Professional’s certification (See Exhibit K herein). The Design Professional should review change orders issued during the construction administration phase as they will have an effect upon the final certification, depending upon the allocation of costs in the change order.

**Required Certifications on the Statement of Probable Construction Cost:**

 1. I certify that I have examined the Project Development File (or Program) as furnished to me by the Using Agency for this Project.

 2. I certify to the best of my knowledge, information and belief that the Probable Construction Cost furnished herein covers all work to be drawn, specified and constructed under the Project Development File (or Program.)

 3. I certify to the best of my knowledge, information and belief that, as to the Statement of Probable Construction Cost furnished herein, all construction work necessary for the completion of the Project for occupancy is included.

 4. I certify to the best of my knowledge, information and belief that there is no work included in this Statement of Probable Construction Cost furnished herein which is beyond the scope of this Project as defined by the Project Development File (or Program) referred to in Paragraph 1 of this certificate.

 5. certify that to the best of my knowledge, information and belief that:

 (a) The total sum area in square feet of this Project computed in accordance with the criteria in Exhibit F of the Design Professional Contract, per the attached computations, is .

 (b) The total cubage of this project, per attached computations, is \_\_\_\_\_\_\_\_\_\_\_ .

 (c) The estimated cost per square foot based on the anticipated low base price (or anticipated initial GMP Change Order) for a turn key job is, $

 (d) The estimated cost per cubic foot based on the anticipated low base price (or anticipated initial GMP Change Order) for a turn key job, is $ .

 (e) The separate estimated cost of grading site, per attached detailed breakdown or engineering figure, in compliance with the Site Memorandum, is $ .

 (f) The time required for completion of construction is estimated to be calendar days form the date of commencement of work.

 6. Subsurface Investigations. The Design Professional certifies he has a report on file from a competent geotechnical engineer or competent independent testing laboratory, the said report being signed by a registered geotechnical engineer, in which the Design Professional has been furnished with both the Stage One and the Stage Two Statements as prescribed in the Site Memorandum (*see* Exhibit G), according to which the Design Professional advises the Owner that the following quantity of rock will probably be encountered:

 The Design Professional estimates that the cost of removing the above quantity of rock will be approximately

$ .

The Design Professional further advises that this amount has been included in the Statement of Probable Construction Cost and that the Design Professional, if applicable, has included unit prices for removal in the Supplementary General Requirements to the CM/GC Contract. Accordingly the Design Professional notifies the Owner of the following conditions below the surface of the ground which are at variance to the conditions indicated by the drawings and specifications or which may subsequently require adjustments in the contract price:

 (a) Investigations as reported by registered geotechnical engineer indicate the existence of springs or ground water. (YES) (NO)

 (b) Investigations as reported by registered geotechnical engineer indicate the existence of unsatisfactory soil conditions for foundations. (YES) (NO)

 (c) Investigations as reported by registered geotechnical engineer indicate the existence of a filled area. (YES) (NO*)*

 (d) Investigations as reported by registered geotechnical engineer indicate the necessity of installing caissons. (YES) (NO)

 (e) Investigations as reported by registered geotechnical engineer indicate the necessity of obtaining additional fill materials. (YES) (NO)

 (f) Investigations as reported by registered geotechnical engineer indicate the necessity of requiring piles or other deep foundations. (YES) (NO)

 (g) Investigations as reported by registered geotechnical engineer indicate the existence of other conditions on a separate sheet. (YES) (NO)

I certify to the best of my knowledge, information and belief that the Probable Construction Cost is current with the date of execution entered herein below.

Witness my hand this day of , 20 .

 Design Professional

**DP Certificates of Compliance – Federal and State Work Authorization Programs**

“Contractor” in the following Affidavits shall mean “Design Professional” for the purpose of compliance with O.C.G.A. § 19-10-91, (b).

For the purpose of completing the following Affidavits, please insert the following:

* “Name of Public Employer” shall mean “Board of Regents of the University System of Georgia, Owner, for the use and benefit of *GEORGIA INSTITUTE OF TECHNOLOGY*, Using Agency”
* “Name of Project” shall mean “*ALL GEORGIA TECH PROJECTS OR INSERT SPECIFIC* *PROJECT NAME*”.

**Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)**

 By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of Board of Regents of the University System of Georgia for the use and benefit of *GEORGIA INSTITUTE* *OF TECHNOLOGY*, Using Agency (public employer) has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number (*contains 4-6 numerical characters*)

Date of Authorization

Name of Contractor

Name of Project

 Board of Regents of the University System of Georgia

 for the use and benefit of *GEORGIA INSTITUTE OF TECHNOLOGY*, Using Agency

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on ­­­\_\_\_\_\_(day), of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(month), 20\_\_\_\_(year) in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(city), \_\_\_\_\_\_(state).

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Signature of Authorized Officer or Agent

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE ­­­\_\_\_\_\_\_ DAY OF \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ MONTH, 20\_\_\_\_ (YEAR)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NOTARY PUBLIC

My Commission Expires:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Subcontractor Affidavit under O.C.G.A. § 13-10-91(b)(3)**

 By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with (name of contractor) on behalf of Board of Regents of the University System of Georgia for the use and benefit of [Using Agency Here], Using Agency (public employer) has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned subcontractor will continue to use the federal work authorization program throughout the contract period and the undersigned subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present an affidavit to the subcontractor with the information required by O.C.G.A. § 13-10-91(b). Additionally, the undersigned subcontractor will forward notice of the receipt of an affidavit from a sub-subcontractor to the contractor within five business days of receipt. If the undersigned subcontractor receives notice that a sub-subcontractor has received an affidavit from any other contracted sub-subcontractor, the undersigned subcontractor must forward, within five business days of receipt, a copy of the notice to the contractor. Subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Federal Work Authorization User Identification Number

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date of Authorization

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Name of Subcontractor

Name of Project

Board of Regents of the University System of Georgia

for the use and benefit of [Using Agency Here], Using Agency

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on ­­­\_\_\_\_\_\_, \_\_\_, 20\_\_ in \_\_\_\_\_(city), \_\_\_\_\_\_(state).

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Signature of Authorized Officer or Agent

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE ­­­\_\_\_\_\_\_ DAY OF \_\_\_\_\_\_\_\_\_\_\_\_\_\_,20\_\_.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NOTARY PUBLIC

My Commission Expires:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Sub-subcontractor Affidavit under O.C.G.A. § 13-10-91(b)(4)**

 By executing this affidavit, the undersigned sub-subcontractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract for (name of subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract) and (name of contractor) on behalf of Board of Regents of the University System of Georgia for the use and benefit of [Using Agency Here], Using Agency (public employer) has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned sub-subcontractor will continue to use the federal work authorization program throughout the contract period and the undersigned sub-subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present an affidavit to the sub-subcontractor with the information required by O.C.G.A. § 13-10-91(b). The undersigned sub-subcontractor shall submit, at the time of such contract, this affidavit to (name of subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract). Additionally, the undersigned sub-subcontractor will forward notice of the receipt of any affidavit from a sub-subcontractor to (name of subcontractor or sub-subcontractor with whom such sub-subcontractor has privity of contract). Sub-subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Federal Work Authorization User Identification Number

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date of Authorization

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Name of Sub-subcontractor

Name of Project

Board of Regents of the University System of Georgia

for the use and benefit of [Using Agency Here], Using Agency

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on ­­­\_\_\_\_\_\_, \_\_\_, 20\_\_ in \_\_\_\_\_(city), \_\_\_\_\_\_(state).

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Signature of Authorized Officer or Agent

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE ­­­\_\_\_\_\_\_ DAY OF \_\_\_\_\_\_\_\_\_\_\_\_\_\_,20\_\_.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NOTARY PUBLIC

My Commission Expires:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ADVICE ON cONSTRUCTION pROGRESS**

**FOR CERTAIN CHANGE ORDERS**

*(To be attached to every Change Order that requests an extension of Time)*

 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

To: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Owner)

and

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (CM/GC)

**Advice on Construction Progress For:**

Periodical Estimate No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project No. \_\_\_\_\_\_\_, Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Original Contract Time: \_\_\_\_\_\_\_\_\_\_\_\_\_ consecutive calendar days.

2. Original Material Completion and Occupancy Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

3. Extensions of Contract Time through Change Order No. \_\_\_\_ : \_\_\_\_\_\_\_\_\_\_ calendar days (aggregate).

4. Revised Material Completion and Occupancy Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. The most recent amended Construction Progress Schedule is dated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

6. The date, as of this Advice. to use in reading the most recent Construction Progress Schedule, after accounting for the applicable approved extensions of Contract Time, is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

7. The current percentage of Work complete (Original Contract and Change Order Work, excluding stored materials) from this Periodical Estimate and Advice is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ %.

8. The CM/GC is \_\_\_\_\_\_\_\_\_\_\_ % [ahead] [behind] schedule.

9. The adjusted Contract Price through Change order No. \_\_\_\_\_ is $ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

10. A revised Construction Progress Schedule [is] [is not] being prepared by the CM/GC as of the date of this Advice.

Design Professional Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 *(Signature)*

**CERTIFICATE OF MATERIAL COMPLETION**

## Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Institution \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Project Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Project Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Design Professional** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Design Professional issues this Certificate of Material Completion of the Project and states to the best of his knowledge, information and belief, limited to his on-site observations, as follows:

1. The above-named project has achieved Material Completion as provided in the Contract Documents on , is available for immediate occupancy by the Using Agency, and is accepted by the undersigned under the terms and conditions thereof.

2. The Contract Price, as amended by Change Order, reduced by the retainage, reduced by Liquidated damages properly assessed, reduced by 200% of the value of both Minor Items and Permitted Incomplete Work on the punchlist, reduced by funds withheld pursuant to Article 4.2.1 or otherwise, and reduced by any established credits to the Owner, as shown on the attached Schedule of Monies retained by Owner, is due and payable pursuant to the terms of the Contract Documents.

3. The CM/GC has furnished evidence satisfactory to the undersigned that all payrolls, material bills, and other indebtedness connected with the work to this point, except for retainage, have been paid.

4. A (temporary) certificate of occupancy has been issued by the State Fire Marshal dated and numbered . Said certificate has been delivered to the following person:

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. The punchlist is attached hereto. The CM/GC shall complete all items on the punchlist and achieve Final Completion not later than 30 days from the date hereof.

6. As of this date the following occurs pursuant to the Contract Documents:

 a. All warranties begin to run from the date Material Completion is achieved.

b. All utilities become the responsibility of the Using Agency.

c. The Using Agency is responsible for all insurance for the Project.

This day of , .

(Name of Firm)

By:

Title:

**Schedule of Monies Retained**

**by Owner**

Retainage: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Assessed Liquidated Damages: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Value of punchlist items x 200%: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Credits to Owner: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Other monies retained per $\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Article 4.2.1 or otherwise

Total Monies Retained: **$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**CERTIFICATE OF FINAL COMPLETION**

## Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Institution \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Project Number \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Project Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Design Professional** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Design Professional issues this Certificate of Final Completion of the Project and states to the best of his knowledge, information and belief, limited to his on-site observations, as follows:

1. The above-named project was fully constructed and completed as provided in the Contract Documents on and is accepted by the undersigned under the terms and conditions thereof.

2. The Contract Price, as amended by Change Order and reduced by properly assessed Liquidated Damages, and further reduced by the attached Schedule of Credits to the Owner, is due and payable.

3. The CM/GC has furnished evidence satisfactory to the undersigned that all payrolls, material bills, and other indebtedness connected with the work have been paid.

4. A final certificate of occupancy has been issued by the State Fire Marshal dated and numbered . Said certificate has been delivered to the following person:

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. The total cost of labor, materials, and equipment incorporated in the Project are as provided in the attached Final Certification Of Costs For Capital Asset Accounting.

6. All tests and inspections provided for in the Contract Documents that require a Design Professional’s presence have been made in the presence of a registered architect or registered engineer, and all work was found to meet said tests and inspections in accordance with plans and specifications. All mechanical systems, equipment, apparatus and controls (plumbing, heating, electrical, water, septic tank and sewerage disposal fields, refrigeration, kitchen equipment, fire alarm, program and public address, *etc.*) have been found to be in compliance with the Contract Documents, all applicable codes and in safe operation condition. Copies of all tests and certifications are included with the Final Documents.

7. To the best of his knowledge, information and belief, limited to his on-site observations, all work has been installed in such a manner as to comply strictly with all laws, ordinances, codes, rules, and regulations bearing on the conduct of the work as provided in the Contract Documents.

8. There are no credits due the owner for changes, deviations, omissions, or non-compliances other than as shown on the attached Schedule of Credits.

9. Record Documents are to be furnished in accordance with the Design Professional Contract.

10. No work has been certified for payment which was covered prior to consent of the Design Professional.

11. Attached is one copy of each bond, guarantee, or warranty as called for in the Contract Documents.

12. Attached are two copies of each of the two affidavits of CM/GC as called for in the Contract Documents.

13. With exceptions noted below, there are, to the best of the knowledge and belief of the undersigned, no claims outstanding against the CM/GC arising out of the Contract Documents.

This day of , .

(Name of Firm)

By:

Title:

**Schedule of Credits**

**to Owner**

[None]

**CAPITAL ASSET ACCOUNTING**

The Design Professional shall have reached a final estimate of probable construction costs prior to completion of the Project, which estimate includes the probable costs in each accounting category required by GASB-34 accounting principles (see Exhibit F above). During the construction administration phase, each periodical pay application, and each approved Change Order, will have actual cost breakdowns set out by the same capital asset categories. These will be reflected in the Contractor’s Final Certification of Costs for Capital Asset Accounting, a copy of which is attached hereto.

The Design Professional, in addition to reviewing its final Statement of Probable Construction Cost, is required to add certain specific items of information to its certification of the Contractor’s Final Certification of Costs for Capital Asset Accounting. In addition to items such as the date of the Certificate of Occupancy, and certain basic information about the Project, the Design Professional is required to assign the Building Occupancy Types, the Building Class of Construction, and the Building Useful Life.

The Building Occupancy Types are determined by reference to the list below. If a building has more than one occupancy type, indicate the percentage of the building that is used for each Building Occupancy Type.

Building Class of Construction is determined by reference to the chart below, which specifies five classes of construction. The Design Professional should determine the best class for the Project based upon the best fit for the frame, floor, roof, and wall construction. If the Project consists of more than one physically separate structure of differing types (each with its own utilities, etc.), then the Design Professional should identify each structure and the class involved. If the Project is a single integrated complex, then the Design Professional should choose the single class that best fits the project complex.

Once the Building Class of Construction is determined, the Design Professional should, by reference to the Building Useful Life guidelines, determine the appropriate building type and, given the Building Class of Construction, assign an appropriate useful life for the Project. On the guidelines, use a specific category if available. If not, use a general category matching the Project.

**Building Occupancy Types**

 Offices and Legislative Buildings ISO Code 8

 Colleges and classrooms ISO Code 25

 Dormitories ISO Code 4

 Libraries ISO Code 25

 Warehouse/Storage ISO Code 6

 Port facilities ISO Code 27

 Correctional facilities ISO Code 23

 Hospitals & health care facilities ISO Code 9

 Parks and recreational facilities ISO Code 23

 Convention Centers, Exhibition Halls, Arenas, Stadiums ISO Code 10

 Transportation Maintenance Facilities (DOT) ISO Code 7

 Armories ISO Code 12

 Parking Garages ISO Code 11

Building Classes of Construction

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Class** | **Frame** | **Floor** | **Roof** | **Walls** | **Applicable****Fire Standard** | **DOAS****Type** |
| A | Structural steel columns and beams, fireproofed with masonry, concrete, plaster, or other noncombustible material | Concrete or concrete on steel deck, fireproofed | Formed concrete, precast slabs, concrete or gypsum on steel deck, fireproofed | Nonbearing curtain walls, masonry, concrete, metal and glass panels, stone | *“Fire Resistive”*NFPA 220 Type I or IISBC Type I or IIIBC Type IA , IB or IIA | None |
| B | Reinforced concrete columns and beams; fire-resistant construction | Concrete or concrete on steel deck, fireproofed | Formed concrete, precast slabs, concrete or gypsum on steel deck, fireproofed | Nonbearing curtain walls, masonry, concrete, metal and glass panels, stone | *“Fire Resistive”*NFPA 220 Type I or IISBC Type I or IIIBC Type IA, IB or IIA  | Type 4orType 6 |
| C | Masonry or concrete load-bearing walls with or without pilasters; masonry or concrete walls with steel, fire retardant treated wood (FRTW) or concrete frame | Wood or concrete plank on steel floor joists, or concrete slab on grade | Wood or steel joists with wood or steel deck; concrete plank | Brick, concrete block, or tile masonry tilt-up, formed concrete, curtain walls | *“Ordinary”*NFPA 220 Type IIISBC Type VIBC Type IIIA or IIIB | Type 2 |
| D | Wood or steel studs in bearing wall, wood frame, primarily combustible construction | Wood or steel floor joists or concrete slab on grade | Wood or steel joists with wood or steel deck | Almost any material, generally combustible construction | *“Frame” and “Heavy Timber’*NFPA 220 Type V & Type IV (Timbers)SBC Type III or VIIBC Type IV, VA, VB | Type 1OrType 7 |
| S | Metal bents, columns, girders, purlins, and girts; noncombustible construction | Steel deck on steel floor joists, or concrete slab on grade | Steel deck on steel joists | Metal skin or sandwich panels; generally noncombustible | *“Non-Combustible”*NFPA 220 Type IISBC Type IVIBC Type IIB | Type 3 |

**Guidelines For**

**Probable Years of Useful Life by Building Type and Class**

|  Building Type Building Class |
| --- |
| Public Buildings | **A** | **B** | **C** | **D** | **S** |
| Good and excellent libraries | 60 | 60 | 55 | 50 | 50 |
| Average libraries | 55 | 55 | 50 | 45 | 45 |
| Low-cost libraries | 50 | 50 | 45 | 40 | 40 |
| Good and excellent medical offices | 50 | 50 | 45 | 40 | 40 |
| Average and low-cost medical offices | 45 | 45 | 40 | 35 | 35 |
| Good and excellent governmental buildings | 60 | 60 | 55 | 50 | – |
| Average and low-cost governmental buildings | 55 | 55 | 50 | 40 | 40 |
| Good and excellent general hospitals | 50 | 50 | 45 | 40 | – |
| Average and low-cost general hospitals | 45 | 45 | 40 | 35 | 35 |
| Good and excellent convalescent hospitals | 50 | 50 | 45 | 40 | – |
| Average and low-cost convalescent hospitals | 45 | 45 | 40 | 35 | 35 |
| Average and good dispensaries | – | – | 35 | 30 | 30 |
| Good and excellent fire stations | 50 | 50 | 45 | 40 | 40 |
| Average and low-cost fire stations | 45 | 45 | 40 | 35 | 35 |
| Average and good veterinary hospitals | 45 | 45 | 40 | 35 | 35 |
| Low-cost veterinary hospitals | – | – | 35 | 30 | 30 |
|  |  |  |  |  |  |
| Colleges and Universities | A | **B** | **C** | **D** | **S** |
| Good and excellent buildings | 60 | 60 | 50 | 45 | 45 |
| Average buildings | 50 | 50 | 45 | 40 | 40 |
| Low cost buildings | – | – | 40 | 35 | 35 |
|  |  |  |  |  |  |
| Theaters and Auditoriums | **A** | **B** | **C** | **D** | **S** |
| Excellent auditorium | 55 | 55 | 50 | 45 | – |
| Good and average auditorium | 50 | 50 | 45 | 40 | 40 |
| Low-cost auditorium | – | – | 40 | 35 | 35 |
| Good and excellent theater | 50 | 50 | 45 | 40 | – |
| Average and fair theater | 45 | 45 | 40 | 35 | 35 |
| Low-cost and cheap theater | – | – | 35 | 30 | 30 |
| Good bowling alleys | – | – | 40 | 35 | 35 |
| Low-cost average bowling alleys | – | – | 35 | 30 | 30 |
| Good skating rink and tennis clubs | – | – | 45 | 40 | 40 |
| Average skating rink and tennis clubs | – | – | 40 | 35 | 35 |
| Low-cost skating rink and tennis clubs | – | – | 35 | 30 | 30 |
| Good handball racquetball clubs | – | – | 45 | 40 | 40 |
| Average handball racquetball clubs | – | – | 40 | 35 | 35 |
|  |  |  |  |  |  |
| Sheds and Farm Buildings | **A** | **B** | **C** | **D** | **S** |
| Good creameries | – | – | 45 | – | 45 |
| Average creameries | 45 | 45 | 35 | – | 30 |
| Low-cost creameries | – | – | 25 | – | 20 |
| Grain elevator facilities | – | 60 | – | 55 | – |
| Grain storage buildings | – | – | – | 30 | 30 |
| Good and excellent dairies | – | – | 35 | 30 | 30 |
| Average dairies and fruit packing buildings | – | – | 30 | 25 | 25 |
| Low-cost dairies | – | – | 20 | 20 | 15 |
| Bulk fertilizer storage | – | – | – | 30 | 30 |
| Excellent barns and stables | – | – | 40 | – | 35 |
| Good barns and stables | – | – | 35 | 30 | 30 |
| Average barns, hog barns, stables and silos | – | – | 30 | 25 | 25 |
| Low-cost barns and stables | – | – | 20 | 15 | 15 |
| Excellent poultry houses | – | – | 30 | 25 | 25 |
| Good poultry houses, equipment, and utility sheds | – | – | 25 | 20 | 20 |
| Average poultry, equipment, and utility buildings | – | – | 20 | 15 | 15 |
| Low-cost poultry houses | – | – | 15 | 15 | 15 |
| Tobacco barns | – | – | 20 | 20 | 15 |
| Miscellaneous sheds and outbuildings |  |  | 10 to 15 yrs |
| Good greenhouses | – | – | – | 30 | 40 |
| Average lath and greenhouses | – | – | – | 20 | 25 |
| Low-cost lath greenhouses | – | – | – | 10 | 15 |
|  |  |  |  |  |  |
| Elementary and Secondary Schools | **A** | **B** | **C** | **D** | **S** |
| Good school plants | 50 | 50 | 45 | 40 | – |
| Average school plants | 45 | 45 | 45 | 40 | – |
| Low-cost school plants | – | – | 40 | 35 | – |
| Good and excellent classrooms | 50 | 50 | 45 | 40 | 40 |
| Low-cost and average classrooms | 45 | 45 | 40 | 35 | 35 |
| Cheap classrooms | – | – | 35 | 30 | 30 |
| Good and average gymnasiums | 45 | 45 | 40 | 35 | 35 |
| Good and average multipurpose, manual arts | 45 | 45 | 40 | 35 | 35 |
| Low-cost multipurpose, manual arts | – | – | 35 | 30 | 30 |
| Average shower building | – | – | 30 | 25 | 25 |
| Good and excellent day care centers | – | – | 45 | 40 | – |
| Average day care centers | – | – | 40 | 35 | 35 |
| Low-cost day care centers | – | – | 40 | 35 | – |
| Re-locatable classrooms | – | – | – | 10 | – |

**General Format from General Conditions for:**

**FINAL CERTIFICATION OF COSTS FOR CAPITAL ASSET ACCOUNTING**

Date

To: (Owner)

The following accounting of costs for Project No. \_\_\_\_\_\_\_\_\_\_\_\_\_, Project Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

is submitted as follows, with the breakdown of costs as specified in the Final Pay Request attached hereto and incorporated herein, for the purposes of capital asset accounting pursuant to GASB 34 Accounting Statement:

1. **BUILDING AND BUILDING IMPROVEMENTS: \* $**
2. **INFRASTRUCTURE: \*\* $**
3. **FURNISHINGS & EQUIPMENT: \*\*\* $**

 **===============================**

 **TOTAL: $**

**Notes:** (Contractor must insure costs from all Change Orders are apportioned and included in each line item above)

**\*** *Building:* Include totals from Items A, 1, 3, 5, 6, 7, 8, 9, 10, 13, 14, 15 and “Building” portions of Items 2, 4, and 16.

**\*\*** *Infrastructure:* Include totals from the “Infrastructure” portions of Items 2, 4 and 16.

**\*\*\*** *Furnishings & Equipment*: Include totals from the “moveable” portions of Items 11 and 12.

*I certify to the best of my knowledge, information, and belief that all of the amounts set forth on this Certificate are true and correct and are supported by the financial records for this project on file with the CM/GC.*

NAME OF CM/GC COMPANY

By: Title: Date

 *(Signature)*

CERTIFICATE OF THE DESIGN PROFESSIONAL

*I state to the best of my knowledge, information, and belief,*  *limited to my on-site observations, that the amounts certified by the Contractor are consistent with the estimates provided in my final Statement of Probable Construction Cost for the project; that the Building Improvement contains a footprint based upon a line five feet outside the building structure) of \_\_\_\_\_\_\_\_\_ square feet, a total of \_\_\_\_\_\_\_\_\_\_ gross square feet, and contains \_\_\_\_\_\_ floors (including basements). The building fire protection system is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (include type of system). The Certificate of Occupancy was issued on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. I further state that to the best of my knowledge, information and belief the design intent for this project is that the Building and the Building Improvements are of Building Construction Class \_\_\_\_\_\_\_\_\_ and ISO Occupancy Type(s) \_\_\_\_\_\_\_and have an expected useful life of \_\_\_\_\_\_\_\_\_\_\_\_\_ years from the date of this Certificate, and that my observations of the construction confirm these expectations.*

DESIGN PROFESSIONAL

By: Title: Date

 *(Signature)*

CERTIFICATE OF THE USING AGENCY OR OWNER

*I certify that to the best of my knowledge, information, and belief that the cost of the real property covered by this project, to the boundaries on the final Site Plan, was $  and the cost of additional government-supplied furnishings and equipment acquired for this Project was $ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .*

NAME OF USING AGENCY OR OWNER

By: Title: Date

 *(Signature)*

**COMMISSIONING CHECKLIST**

(Items checked must be commissioned if this Project is Subject to the Georgia Energy Efficiency and Sustainable Construction Act of 2008)

|  |
| --- |
| **COMMISSIONING CHECKLIST** |
| **PROJECT NAME:**  |
| **MECHANICAL SYSTEMS - Heating, Ventilating, and Air Conditioning (HVAC)** |
| **Main Items Included in Scope** | **Required** |  |
| ­Thermometers and gauges |  |  |
| Vibration isolation |  |  |
| Steam condensate system |  |  |
| Hot water heating systems |  |  |
| Computer room HVAC systems |  |  |
| Chemical water treatment systems |  |  |
| Chillers |  |  |
| Cooling towers |  |  |
| Condenser water system |  |  |
| Air terminal unit systems, VAV, PIU, etc. |  |  |
| Humidifiers |  |  |
| Duct silencers |  |  |
| Dampers |  |  |
| Variable frequency drives and motors |  |  |
| Air distribution systems |  |  |
| Exhaust air systems |  |  |
| Trend logs |  |  |
| Network communication |  |  |
| Test and Balance verification |  |  |
| Refrigeration equipment and controls |  |  |
| Chilled Water System |  |  |
|  |  |  |
| **BUILDING ENVELOPE** |
| **Main Items Included in Scope** | **Required** | **Options****Selected** |
| Roofing system – water-proofing, insulation, roof membrane, rain and ice shield, pitch, coping, flashing, curbs for mechanical equipment, downspouts, drains, scuppers |  | **[ ]**  |
| Exterior skin – curtainwall, storefront, masonry, brick / stone veneers, precast panels, metal panels, stucco / EIFS, siding |  | **[ ]**  |
| Walls – vapor barriers, insulation, mortar nets, weeps, joints, sealants, masonry ties |  | **[ ]**  |
| Slab on grade – vapor barriers, water-proofing, drainage, foundation drains |  | **[ ]**  |
| Doors and windows – sealants, mechanical operation, sills, flashing, end dams, hardware |  | **[ ]**  |
| Water tests, mockups, wind loads, thermal infiltration |  | **[ ]**  |
| Special design features – dome, cornice, canopy, skylight, etc. |  | **[ ]**  |
| **NOTES:** |

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| **COMMISSIONING CHECKLIST - 2** |
| **ELECTRICAL SYSTEMS** |
| **Main Items Included in Scope** | **Required** | **Options****Selected** |
| Service switchgear |  | **[ ]**  |
| Emergency power system |  | **[ ]**  |
| Generators |  | **[ ]**  |
| Lighting controls (scheduled activators and occupancy sensors) |  | **-** |
| Daylight dimming controls |  | **-** |
| Lighting - exterior |  | **[ ]**  |
| Lighting - interior |  | **[ ]**  |
| Switchboards |  | **[ ]**  |
| Distribution panel boards |  | **[ ]**  |
| Motor Control Centers |  | **[ ]**  |
| Power monitoring and metering |  | **-** |
| Transient voltage surge suppressors |  | **[ ]**  |
| Variable frequency and speed drives |  | **[ ]**  |
| Grounding and ground fault systems |  | **[ ]**  |
| Over-current protective devices |  | **[ ]**  |
| Low voltage bus ways |  | **[ ]**  |
| Thermographic survey |  | **[ ]**  |
| White noise system |  | **[ ]**  |
| Paging system and security |  | **[ ]**  |
| ATS auto transfer switches |  | **[ ]**  |
| Buss duct and tap devices |  | **[x]**  |
| Fire alarm and smoke detectors |  | **[ ]**  |
| Standby and emergency power systems |  | **[ ]**  |
| Emergency lighting |  | **[ ]**  |
| Security systems |  | **[ ]**  |
| Electrical primary voltage system |  | **[ ]**  |
| Transformers |  | **[ ]**  |
| **NOTES:** |
| **COMMISSIONING CHECKLIST - 3** |
| **LABORATORY SYSTEMS** |
| **Main Items Included in Scope** | **Required** | **Options****Selected** |
| Lab waste neutralization |  | **[ ]**  |
| Fume hoods |  | **-** |
| Special gas manifolds |  | **[ ]**  |
| Vacuum air system |  | **[ ]**  |
| Compressed air system |  | **[ ]**  |
| Emergency shower / eyewash |  | **[ ]**  |
| Sinks and drains |  | **-** |
| Electronic calendaring or directory |  |  |

|  |
| --- |
| **PLUMBING SYSTEMS** |
| **Main Items Included in Scope** | **Required** | **Options****Selected** |
| Cleaning / flushing water systems |  | **[ ]**  |
| Trap primers |  | **[ ]**  |
| Vibration isolation |  | **[ ]**  |
| High purity water system |  | **[ ]**  |
| De-ionized water system |  | **[ ]**  |
| Thermometers and gauges |  | **[ ]**  |
| Irrigation systems |  | **[ ]**  |
| Water filtration (general use) |  | **[ ]**  |
| Domestic hot water systems |  | **-** |
| Tempered water systems |  | **-** |
| Fuel oil / gas systems |  | **[ ]**  |
| Potable water and booster pump systems |  | **[ ]**  |
| Sump pumps and electors |  | **[ ]**  |
| Backflow preventers and relief valves |  | **[ ]**  |
| Compressed air systems (non-lab use) |  | **[ ]**  |
|  |  |  |
| **RENEWABLE ENERGY SYSTEMS** |
| **Main Items Included in Scope** | **Required** | **Options****Selected** |
| Heat recovery systems |  | **-** |
| Controls and thermostats |  | **-** |
| Photovoltaic cell panels (solar power systems) |  | **-** |
| Solar hot water systems |  | **-** |
| Geothermal systems |  | **-** |
| **NOTES:** |

|  |
| --- |
| **COMMISSIONING CHECKLIST - 4** |
| **RETRO-COMMISSIONING** |
| **Main Items Included in Scope** | **Required** | **Options****Selected** |
| Compressed air system |  | **[ ]**  |
| Steam condensate system |  | **[ ]**  |
| Hot water heating system |  | **[ ]**  |
| Computer room HVAC system |  | **[ ]**  |
| Chemical water treatment system |  | **[ ]**  |
| Chillers |  | **[ ]**  |
| Cooling towers |  | **[ ]**  |
| Air terminal unit systems, VAV, PIU, AHU, etc. |  | **[ ]**  |
| Humidifiers and controls |  | **[ ]**  |
| Dampers |  | **[ ]**  |
| Variable frequency drives and motors |  | **[ ]**  |
| Air distribution systems |  | **[ ]**  |
| Exhaust air systems and building pressurization controls |  | **[ ]**  |
| Building automation systems, including controlled devices, sensors, control loops, and logic |  | **[ ]**  |
| Lighting controls (scheduled activators and occupancy sensors) |  | **[ ]**  |
| HVAC DX systems |  | **[ ]**  |
| Domestic hot water systems |  | **[ ]**  |
| **NOTES:** |









**SUPPLEMENTARY SERVICES REQUIREMENTS**

1. The use of all forms of tobacco products on property owned, leased, rented, in the possession of, or in any way used by the USG or its affiliates is expressly prohibited. “Tobacco Products” is defined as cigarettes, cigars, pipes, all forms of smokeless tobacco, clove cigarettes and any other smoking devices that use tobacco such as hookahs or simulate the use of tobacco such as electronic cigarettes.

(Board of Regents Policy Manual, 9.1.7 Tobacco and Smoke-Free Campus Policy. <http://www.usg.edu/policymanual/section9/policy/C503/#p9.1.7_tobacco_and_smoke_free_campus_policy>)

1. Design Professional may be required to use E-Builder, the BOR’s Capital Program Management Software.