



PROJECT MANUAL FOR:
ALPHARETTA ELEMENTARY SCHOOL ADDITION & RENOVATION
192 MAYFIELD ROAD
ALPHARETTA, GEORGIA 30004
Owner's Project Number: RFP-401-10

OWNER:
FULTON COUNTY SCHOOLS
5270 NORTHFIELD BOULEVARD
COLLEGE PARK, GEORGIA 30349

ARCHITECT:
GOODE VAN SLYKE ARCHITECTURE
409 JOHN WESLEY DOBBS AVENUE
ATLANTA, GEORGIA 30312

CIVIL ENGINEER:
TRAVIS PRUITT & ASSOCIATES
4317 PARK DRIVE
SUITE 400
NORCROSS, GEORGIA 30093

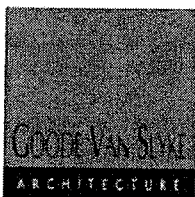
STRUCTURAL ENGINEER:
PRUITT EBERLY STONE
1852 CENTURY PLACE, N.E., SUITE 201
ATLANTA, GEORGIA 30345

MECHANICAL, PLUMBING, FIRE PROTECTION ENGINEER:
SPENCER BRISTOL ENGINEERING, INC.
5880 LIVE OAK PARKWAY, SUITE 140
NORCROSS, GEORGIA 30093

ELECTRICAL ENGINEERING:
BOLDEN-WILLIAMS & ASSOCIATES, INC.
3066 HIGHWAY 29 SOUTH
LAWRENCEVILLE, GEORGIA 30044

SPECIFICATION CONSULTANT:
SPIKER BALDWIN ASSOCIATES, INC.
216 CHURCH STREET
DECATUR, GEORGIA 30030

100% CONSTRUCTION DOCUMENTS:
ADDENDUM #4: July 28, 2009



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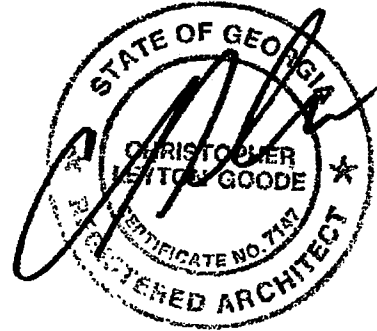
ADDENDUM #4: July 28, 2009

**SECTION 00900
ADDENDUM**

GENERAL

1.01 The following sets forth the format for issued Addenda.

ADDENDUM No. 4, dated July 28, 2009



RE: Alpharetta Elementary School Addition/ Renovation RFP 401-09

**FROM: OWNER: FULTON COUNTY BOARD OF EDUCATION
CONTRACTS DEPARTMENT
THE MEADOWS OPERATION CENTER
5270 Northfield Boulevard
College Park, GA 30349**

Architect/Engineer Stamp & Signature

TO: ALL PROSPECTIVE BIDDERS:

This Addendum forms a part of the Contract Documents and modifies the Proposal Documents dated June 30, 2008 as noted below. Acknowledge receipt of the Addendum in the space provided on Document 00400 - Proposal Acceptance Form. Failure to do so may result in the proposal being deemed non-responsive.

The Addendum consists of 7 pages, including this one.

- A. CHANGES TO PROPOSAL REQUIREMENTS TABLE OF CONTENTS: None
- B. CHANGES TO PRIOR ADDENDUM: None
- C. CHANGES TO PROPOSAL DOCUMENTS: Please see below for description.
- D. CHANGES TO CONDITIONS OF THE CONTRACT:

Delete the following sections in their entirety and substitute new sections, dated as indicated below:

Document 00100	7/28/09
Document 00330	7/28/09
Document 00410	7/28/09
Document 00400	7/28/09
Document 01010	7/28/09

- E. CHANGES TO SPECIFICATIONS:

Delete the following specification sections in their entirety and substitute new sections, dated as indicated below:

Document 00 0110	Table of Contents	7/24/09
Section 06 2000	Finish Carpentry	7/22/09
Section 07 8116	Cementitious Fireproofing	7/24/09
Section 08 7100	Door Hardware	7/28/09
Section 09 5100	Acoustical Ceilings	7/22/09
Section 10 2813	Toilet Accessories	7/22/09
Section 32 3113	Chain Link Fences and Gates	

Delete the following specification section in its entirety:

Section 12 3200 Manufactured Casework

F. CHANGES TO DRAWINGS:

Delete the following drawings in their entirety and substitute the attached new drawings, dated July 28, 2009:

A000, A010, A020, A050, A051, A130, A421, A600, C4.2, C5.1, E101.

Delete the following drawings in their entirety and substitute the attached new drawings, dated July 24, 2009:

S101, S404.

Delete the following drawings in their entirety and substitute the attached new drawings, dated July 23, 2009:

C1.1, C3.1, C4.1, C5.2, C6.1, C6.2, C6.3, C7.1, C8.1, C9.1.

Add the following drawing, dated July 23, 2009:

C10.10, C11.1.

G. OTHER CHANGES AS SET FORTH:

Responses to Pre-Proposal RFI's:

RFI #1C: In the RFP – Page 6, paragraph 7 – It is stated that FCS is exempt from all state sales tax and Federal Excise Tax. In the General Conditions, article 6.37, it states that the CONTRACTOR is financially responsible for applicable federal, state and local taxes on all items. Please Clarify that we are or are not supposed to include sales tax in our proposal.
Response to RFI #1C: All sales tax is to be included in proposal.

RFI #2C: In the RFP – The paving is listed as two different numbers in the proposal. In the RFP page 21, it is listed as \$100,000 and on the 00400 document, it is listed as \$1,100,000. Please confirm the correct amount for the paving allowance.

Response to RFI #2C: The paving allowance is \$100,000.

RFI #3C: The Unforeseen Infrastructure Upgrades allowance is listed in the RFP page 21 as \$120,000, but is not shown on the 00400 document. Please confirm which one is correct.

Response to RFI #3C: Unforeseen Infrastructure Upgrades allowance is \$120,000.

RFI #4C: The Sports Flooring in the Gymnasium allowance is listed in the 00400 document as \$40,000, but is not shown in the RFP allowance section on page 21. Please confirm which one is correct.

Response to RFI #4C: The Sports Flooring Allowance of \$40,000 is deleted from the 00400 document.

RFI #5C: It appears that there is an alternate listed in the RFP on page 23 as well as shown on the 00400 document. The alternate is not listed in spec section 01030. Is this correct? Also, the wording on this Alternate is potentially a little misleading. Can you please give more detail? The alternate reads like it is adding scope, but deducting costs. Is the piping replacement that is described on the drawings a part of this alternate?

Response to RFI #5C: The amount added or deducted from the base is the net addition to or deducted from the base offer to incorporate offer item Work into the Work. Unless noted otherwise, no other adjustments are made to the Contract Amount, Milestones and /or the Contract Time.

RFI #6C: Can you issue the Subsurface Soils Investigation Report for this job as part of the documents?

Response to RFI #6C: Yes, upon request. Please contact the Owner to attain a copy.

RFI #8C: Note 17 on drawing A051 references an alternate pricing option and a description to describe the conditions of this alternate. The note references drawing A000. However, specification section 01030 nor the Bid Documents make reference to this alternate. There are three alternates listed on drawing A000 that are not listed in the specifications and RFP. Please clarify.

Response to RFI # 8C: Please refer to Addendum #4.

RFI #2: Please confirm that there is no landscaping or irrigation to be included within this scope of work.

Response to RFI #2: Please refer to Civil drawings and specifications for permanent seeding and temporary erosion control measures. There is no irrigation work included in this scope of work.

RFI #3: Demolition Plan indicates work to be done in rooms 102, 106 and 121. There are no notes attached to these rooms. Please clarify the extent of demolition work within these areas.

Response to RFI #3: Room 102 is clarified on drawing A051 issued with Addendum No. 2, dated 7/17/09. For rooms 106 and 121, please refer to drawing A051 issued with this Addendum.

RFI #007: On drawing M202, M203 and E303 there are "deductive alternates" called out. These are not on the bid forms. Please confirm how we should include these alternates in our pricing.

Response to RFI #007: Delete the references to these deductive alternates on M202, M203 and E303.

RFI #008: Note 17 on drawing A051 references and alternate pricing option and a description to describe the conditions of this alternate. The note references drawing A000. However, specification section 01030 nor the Bid Documents make reference to this alternate. There are three alternates listed on drawing A000 that are not listed in the specifications and RFP. Please clarify.

Response to RFI #008: Amend note 17 as shown on Sheet A051 issued with this Addendum.

RFI #009: Paragraph 3.1.D of section 024120-Selective Demolition, says that we are to remove all furniture, file cabinets, etc. to a location designated by Owner. Is this actually a requirement for this

project? If this is a requirement, please provide dates and further detail of this scope so that it may be properly shown on our schedule.

Response to RFI #009: Please refer to General Note 4 on sheet A000, issued with Addendum No. 2, dated 07/17/09.

RFI #010: Please provide a drawing with existing top of footing elevations for walls and columns at the locations where the existing interior ramps will be leveled out and reconfigured as shown.

Response to RJI RFI #010: This is a GC coordination item on site.

RFI #012: Please indicate which specification section applies to the base and wall cabinets located in the new classrooms: spec section 06 2000 or 12 [3200]?

Response to RFI #012: Please refer to section 06 2000, issued herewith and note that section 12 3200 has been deleted with this addendum.

RFI #013: Please indicate which specification section applies to the storage cubbies: spec section 06 2000 or 12 [3200]?

Response to RFI #013: Please refer to section 06 2000, issued herewith and note that section 12 3200 has been deleted with this addendum.

RFI #014: Please indicate which specification section applies to the shelf & rod: spec section 06 2000 or 12 [3200]?

Response to RFI #014: Please refer to section 06 2000, issued herewith and note that section 12 3200 has been deleted with this addendum.

RFI #015: Please provide a specification for the solid surface material as noted in detail 3 on drawing A411.

Response to RFI #015: Please refer to section 06 6116 Solid Surfacing Fabrications, issued with Addendum No. 2, dated 7/17/09.

RFI #016: Do the new classroom window sills receive solid surface material similar to detail 1 on A412?

Response to RFI #016: Yes, please refer to Addendum No. 2, dated 7/17/09.

RFI #017: There is an allowance of \$60,000 for fire & smoke caulk in the existing building and there is a general note 3 on drawings A201, 202, 203, 204, 205 that also calls for caulking existing walls. Are these two separate issues? Please define.

Response to RFI #017: These are not separate issues. Please refer to the updated note on A201 thru A205, issued with Addendum No. 2, dated 7/17/09.

RFI #018: Specification section 09 6500 includes Rubber flooring. However, the finish schedule does not indicate where this material is to be put. Please clarify.

Response to RFI #018: Please refer to note 9 on drawing A051, issued with Addendum No. 2, dated 7/17/09, and issued herewith. Please also refer to revised section 09 6500 and new section 09 6566 issued with Addendum No. 2, dated 7/17/09.

RFI #019: In the cafeteria, there are currently acoustical panels on the ceiling grid. Should these existing acoustical panels be put back into the new ceiling grid once it is installed?

Response to RFI #019: Acoustical panels are included in the demolition scope. Do not re-install.

RFI #020: Please specify the type of ceiling tile to be used in the kitchen. Cortega 2x2 seems to be the only tile specified.

Response to RFI #020: Please refer to Changes to Specifications, Section 09 5100 Acoustical Ceilings listed above.

RFI #021: Drawing A051 shows the ceiling being demolished and replaced in the Physical Education room. The existing ceiling is Tectum Roof Deck panels on steel joists. Please define the scope of work, if any, that is supposed to happen in this room.

Response to RFI #021: The tectum roof panels are to remain. Please refer to drawing A051, issued with Addendum No. 2, dated 7/17/09; and issued herewith. However, please note that other work items documented for this room remain in the scope of work.

RFI #022: Note 9 on drawing A051 indicates new cushioned flooring is required at Special Education wing of the building. However, the specifications do not mention a cushioned floor. Please clarify. Also, please verify if existing floor is to be removed prior to any new flooring going in these locations for Note 9.

Response to RFI #022: Please refer to clarified note 9 on drawing A051, issued with this Addendum.

RFI #023: Specification section 09 6500 includes Rubber flooring. However, the finish schedule does not indicate where this material is to be put. Please clarify.

Response to RJG RFI #023: Please refer to Response to RFI #018, above.

RFI #024: Specification section 09 6500 includes rubber stair treads. However, the finish schedule does not indicate where this material is to be put. Please clarify.

Response to RFI #024: Please refer to drawings of stairs, including 3/A004, 1/A102 and sheet A142, issued with Addendum No. 2, dated 7/17/09.

RFI #025: The notes on A051 "5, 14, 21" next to the kitchen, look like they point to the small bathrooms in the south corner of the kitchen. It appears that only note #5 applies to the kitchen areas. Please confirm.

Response RFI #025: Confirmed, this does not limit work for the kitchen documented in other locations in the Bid Documents.

RFI #026: Is signage schedule available for pricing purposes?

Response to RJG RFI #026: No schedule is available. However, please refer to the amended General Notes on drawing A051, issued with Addendum No. 2, dated 7/17/09.

RFI #027: Specification section 10 1100 calls for both marker boards and tack boards. However, the drawings do not indicate any locations for tack boards. Please clarify.

Response to RFI #027: Please refer to updated drawings A130 and A600, issued with this Addendum.

RFI #028: Specification section 10 2813 calls for Recessed hand dryers, mop & broom holders and double robe hooks. However, these items are not shown on the drawings. Please clarify.

Response to RJG RFI #028: Please refer to Changes to Specifications, above. Please refer to updated drawing A130, issued with this Addendum, for locations of robe hooks.

RFI #029: Specification section 10 2813 calls for both semi-recessed and recessed paper towel dispensers. Which is required?

Response to RFI #029: Please refer to Changes to Specifications, above. Please refer to updated drawing A130, issued with this Addendum, for additional clarification.

RFI #030: What are the locations for the metal storage shelving as specified in specification section 10 5613? The new addition appears to have shelving in all 1st grade storage rooms. Is this the full extent of this scope of work?

RFI #030: Please refer to clarifications of drawings A101, A130 issued with Addendum No. 2, dated 7/17/09.

RFI #031: The drawings and specification section 10 9900 indicate the location and type for the wall mounted TV Brackets & DVS/VCR wall mounts. However, specification section 01025 indicates the

general contractors are to carry an allowance of \$5,000.00 for these. Please clarify if we are to carry the allowance in addition to the brackets shown and specified in the documents.

Response to RFI #031: Items referred to by allowance are indicated in documents also in this case.

RFI #032: Are the existing toilet partitions supposed to be removed for tile floor removal and re-installed after new flooring goes into the bathrooms? Or are new toilet partitions expected to be furnished and installed?

Response to RFI #032: Please refer to clarified note 7 on drawing A051, reissued herewith.

RFI #033: Per specification section 11 5213, please provide the locations and attachment details for the projection screens.

Response to RFI #033: Please refer to drawings A100, A130, A600, issued with Addendum No. 2, dated 7/17/09.

RFI #034: Which windows receive the window blinds specified in spec section 12 2113?

Response to RFI #034: Furnish and install window blinds at all new exterior windows.

RFI #035: On page 19, paragraph 9a. of request for proposal, it says we are replacing the existing emergency generator. There is a specification section 263200-Emergency Generator. However, on drawing E201, the electrical riser diagram says that the existing generator is to remain (note 1). Please confirm if we are to provide a new generator or not. If a new generator is required, please show the location of this new generator along with details of concrete pad.

Response to RFI #035: Please refer to Addendum No. 2, issued on 7/17/09.

RFI #036: On sheet C8.1 shows tree density calculation but does not show what type of trees and sizes are required to be installed back. Please advise. Please provide detail of all landscaping / irrigation that is to be done on this project.

Response RFI #036: Please refer to updated sheet C8.1, issued with Addendum No. 2, dated 7/17/09.

RFI #037: At the location of the new aluminum canopy (shown on A103), there are 3 trees existing that conflict with the new work. These are not completely defined on the civils as to what happens to them. The concrete sidewalk on drawing C-4.2 conflicts with one tree and roof drain tie-ins on C-5.1 conflict with all three trees. Please confirm if they are to be removed, replaced, or worked around in place.

Response to RFI #037: These trees are to be removed. Please refer to updated drawing A050, issued herewith.

RFI #038: Tags 136 and 137 have not been assigned a hardware set. Please designate a hardware set number.

Response to RFI #038: See revised hardware section 08 7100, dated 7/28/09, issued with this Addendum.

RFI #039: All doors are listed as hollow metal. Is this correct? Also, please confirm that 1-3/8 door thickness is correct.

Response to RFI #039: Door types and thicknesses have been corrected / updated with drawing A020, issued with Addendum No. 2, dated 7/17/09.

RFI #040: Tags 122, 123, 226 and 227 all call for hardware set 15. Tags 122 and 123 are already assigned to set 12 and 226 and 227 have been given set two. Which is correct?

Response to RFI #040: See revised hardware section 08 7100, dated 7/28/09, issued with this Addendum.

RFI #042: Drawing C-3.1, which shows the removal of existing paving, does not match C-4.1 or C-4.2, which shows the paving to be replaced. Please confirm which is correct.

Response to RFI #042: Please refer to Addendum No. 2, dated 7/17/09 for updated plans.

RFI #043: FCS – Request for Sealed Quotation Number 534-09, Alpharetta ES Structural Repairs seems to overlap te scope of RFP-401-10. Please confirm that RFSQ – 534 – 09 is or is not already being performed by another contractor.

Response to RFI #043: Please refer to clarifications of scope issued with Addendum No. 2, dated 7/17/09.

RFI #044: FCS – Request for Sealed Quotation Number 501-10, Alpharetta ES Addition and Renovation – Site Package has some temporary chain link fence going up in the parking lot of the school. Is this temporary fencing to stay up for the duration of the contract for RFP-401-10?

Response to RFI #044: Yes.

- H. Clarification or any other notice of a change in the Proposal Documents will be issued only by the OWNER Contracts Department and only in the form of a written Addendum, transmitted by fax or e-mail to all who are known by the issuing office to have received a complete set of PROPOSAL Documents. Any other purported Addenda are void and unenforceable.

END OF ADDENDUM NO. 4

LATEST REVISION DATE

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Revised July 24, 2009

Alpharetta Elementary School Addition & Renovations
GVSA-27028.00
SBA-08132

00 0110-3
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No Sections Required

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No Sections Required

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No Sections Required

Revised July 24, 2009

Alpharetta Elementary School Addition & Renovations
GVSA-27028.00
SBA-08132

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Alpharetta Elementary School Addition & Renovations
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SBA-08132

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7-23-09

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Goode Van Slyke
School Code: 1050

Request for Proposal
ADDENDUM NO. 4
7/28/2009

**SECTION 00100
REQUEST FOR PROPOSAL**

The Fulton County Schools invites you to submit a proposal for furnishing any or all items as listed on the proposal forms provided herein for Alpharetta Elementary School Addition/Renovation at 192 Mayfield Road, Alpharetta, GA 30004

Sealed Proposals will be received subject to the attached terms specified in Section 00200 – Instructions to Offerors, the Operations Division, Capital Program Contracts Department, The Meadows Operations Center, 5270 Northfield Boulevard, College Park, Georgia 30349. The proposal will be received up to **10:00 a.m.** local time, as per the Capital Program Contracts Department time clock, **6 August 2009**.

Questions regarding the Request for Proposal process should be directed to Wilma A. Gibbs-Matthews, Capital Program Contracts Department via facsimile at (404) 305-2167 or email to cpcontracts@fulton.k12.ga.us. Only questions received prior to **4:30 p.m., 30 July 2009** (as per the Capital Program Contracts Department time clock) will be considered.

Offer (commonly known as Bid) security in the amount of five percent (5%) of the lump sum base offer shall accompany each proposal. The surety issuing the bond shall meet the requirements set forth in Articles 5.10 of the General Conditions. A pre-proposal conference will be held in accordance with Section 00325. The offeror is responsible for ensuring that they have complete Proposal Documents including all Addenda provided by the OWNER, prior to the proposal submission date.

PROPOSALS MUST BE SUBMITTED IN A SEALED ENVELOPE, ONE PROPOSAL PER ENVELOPE, PLAINLY MARKED "REQUEST FOR PROPOSAL NO. RFP 401-10" ON THE OUTSIDE OF THE ENVELOPE, AS WELL AS DATE OF PROPOSAL SUBMISSION. "NO PROPOSAL" MUST BE INDICATED AS SUCH ALONG WITH THE PROPOSAL NUMBER ON THE OUTSIDE OF ENVELOPE. FOR IDENTIFICATION PURPOSES, THE OFFEROR'S NAME AND COMPLETE ADDRESS MUST BE CLEARLY PRINTED OR TYPED ON THE OUTSIDE OF THE ENVELOPE. FAXED RESPONSES WILL NOT BE ACCEPTED.

**REQUEST FOR PROPOSAL (RFP)
NO. 401-10**

FOR

ALPHARETTA ELEMENTARY SCHOOL ADDITION/ RENOVATION

**FULTON COUNTY SCHOOLS
CAPITAL PROGRAM CONTRACTS DEPARTMENT
5270 NORTHFIELD BOULEVARD
COLLEGE PARK, GEORGIA 30349**

July 28, 2009

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FOR

REQUEST FOR PROPOSAL NO. 401-10

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PROPOSAL CONDITIONS

SECTION II – CONTRACT AWARD**1. INTRODUCTION**

This solicitation is a Request for Proposal (RFP) and is a "competitive sealed proposal" process made pursuant to O.C.G.A. § 36-91-21(c). The contract will be awarded to the responsible and responsive offeror whose proposal is determined in writing to be the most advantageous to the Fulton County Schools, taking into account the factors set forth in this RFP. See O.C.G.A. § 36-91-21(c)(1)(C).

This RFP has and/or will be advertised in accordance with O.C.G.A. § 36-91-21(c)(1)(A). This RFP and the accompanying documents contain conceptual program information that describes the required services in a level of detail appropriate to the RFP process and further describes the relative importance of each of the evaluation factors. Id.

All proposals must be received by 6 August 2009, 10:00 a.m. local time (per the FCS Capital Program Contracts Department time clock). See O.C.G.A. § 36-91-21(c)(1)(B). The proposals will then be opened and evaluated by a committee based on the evaluation factors discussed in the Proposal Documents. Offeror(s) should make their best effort to satisfy the requirements at their best price because a contract may be awarded based on the initial evaluation. If a contract is not awarded based on the initial evaluation, the committee will afford the "responsible offerors" an opportunity for discussions, negotiations and revisions of their proposals. See O.C.G.A. § 36-91-21(c)(2). A "responsible offeror" is one whose proposal meets the criteria proposed by the Fulton County Schools and whose proposal is reasonably susceptible of being selected for contract award. Id. A proposal is "reasonably susceptible of being selected for contract award" if it is within the "competitive range" established by the evaluation committee. Id. If an offeror's proposal is not evaluated as being within the competitive range, the offeror and its proposal will be excluded from the discussions to save time and money for both the offeror and Fulton County Schools.

Responsible offerors who are within the "competitive range" and have submitted proposals that are reasonably susceptible of being selected for contract award will be given an opportunity to discuss, negotiate and revise their proposals. O.C.G.A. § 36-91-21(c)(2). The discussions, negotiations and revisions shall take place at the Meadows Operations Center. The evaluation committee will not disclose the contents of an offeror's proposal to another offeror. Id. At the conclusion of discussions, negotiations, and revisions, best and final offers (BAFOs) will be solicited from the responsible offerors.

The BAFOs will be evaluated and the results will be reported to a selection official who will select the proposal that is the most advantageous to the Fulton County Schools based on the evaluation factors in the Proposal Documents. O.C.G.A. § 36-91-21(c)(1)(C). The committee and/or selection official will prepare a written report setting forth the basis on which the award is made. Id. The selection will then be presented to the Fulton County Board of Education for its approval. If approved by the Board and other matters (insurance, bonds, etc.) are settled, a contract will be awarded.

PROPOSAL CONDITIONS**SECTION II – CONTRACT AWARD****2. REQUEST FOR PROPOSAL PROCESS**

- a. To be entitled to consideration, sealed proposals shall be presented in accordance with the instructions of this solicitation and within the time constraints stated.
- b. Sealed proposals consisting of one (1) original and seven (7) copies will be mailed to the office of the Capital Program Contracts Manager, 5270 Northfield Boulevard, College Park, Georgia 30349.
- c. Proposals received after the date and time specified by the time clock in the FCS Capital Program Contracts Department will not be considered.
- d. The Fulton County Board of Education reserves the right to accept or reject any or all proposals and to waive any or all irregularities or technicalities. The Fulton County Board of Education reserves the right to take whatever actions which, in its sole judgment, it deems to be in the best interests of the Fulton County Schools. The judgment of the Fulton County Schools on such matters shall be final.

3. OWNER'S REPRESENTATIVE

- a. The owner for whom the work will be executed is the Fulton County Schools, hereinafter referred to as "FCS."
- b. The owner's representative who will manage the owner's program is Parsons Corporation.

4. PROPOSAL DOCUMENTS

- a. Offerors are notified that they must thoroughly examine the Proposal Documents which include: the Cover Sheet, Table of Contents, Proposal Conditions, Project Manual or Specifications, Drawings, Request for Sealed Proposal documents, and Bidder's Checklist, together with all Addenda thereto issued prior to receipt of the proposals.
- b. Proposal Documents may be obtained for a cost of \$300.00 on Monday through Friday from:

Goode Van Slyke
409 John Wesley Dobbs Avenue
Atlanta, GA 30312
Phone: (404) 523-5525
Fax: (404) 523-5935
slaubmann@gvsa.com

- c. Offerors shall utilize a complete set of Proposal Documents in preparing a proposal.

PROPOSAL CONDITIONS

SECTION II – CONTRACT AWARD

- c. The failure or omission of an offeror to receive any Proposal Document, form, instrument, Addendum or other document shall not relieve the offeror from any obligations with respect to the proposal and/or contract.

5. PREPARATION OF PROPOSALS

- a. All proposals shall be printed in ink or typewritten. Errors may be crossed out and corrections printed in ink or typewritten adjacent to the error. The person signing the proposal shall initial corrections in ink.
- b. By submitting a proposal, the offeror warrants that any goods supplied to the FCS conform to specifications set forth in the drawings and specifications.
- c. To be considered for award, goods of foreign manufacture shall meet all specifications contained in the solicitation, shall be in stock in the continental United States, and shall be available for immediate shipment at the time an offeror submits a proposal.
- d. The Program Manager will be the sole judge in making determinations as to the quality of any goods.
- e. All supplies, materials, and equipment provided to the FCS shall be new and in first-class condition unless the solicitation specifically allows the use of used, reconditioned, or remanufactured items. If newly manufactured products are specified, such products shall be of recent origin and not previously used. No equipment of any type is acceptable if serial numbers or any other manufacturer's identification labels or marks have been removed, obliterated, or changed in any way. A vendor delivering any such equipment to the FCS will be deemed to have breached the contract, and appropriate action will be taken by the FCS Capital Program Contracts Manager.
- f. Time of delivery is part of the solicitation and an essential element of the contract that is to be awarded. If the offeror cannot meet the required delivery date, a proposal should not be submitted. Offerors may provide alternative schedules and/or delivery dates in their proposals. Time shall be stated in "calendar" days. Failure to deliver in accordance with the contract awarded could result in the Contractor being declared in default.
- g. An authorized officer of the company shall sign the proposal.
- h. All proposals shall be completed in their entirety, and the failure to complete the Proposal Documents in their entirety may result in the proposal being deemed non-responsive.

PROPOSAL CONDITIONS

SECTION II – CONTRACT AWARD**6. FAILURE TO RESPOND TO THE SOLICITATION**

If a proposal is not submitted, the solicitation is to be returned marked "no proposal". Failure to provide a proposal or "no proposal" may result in the offeror being removed from the FCS mailing list.

7. TAXES

FCS is exempt from all state sales tax and Federal Excise Tax. These taxes shall not be included in proposals.

8. ADDENDA

Offerors are notified that they must thoroughly examine proposal documents, which include the Cover Sheet, Table of Contents, Proposal Conditions, Project Manual or Specifications, Drawings, Request for Sealed Proposal and Offeror's Checklist, together with the Addenda thereto issued prior to the receipt of proposal.

Any Addenda issued in writing during the time of solicitation shall be included in the proposal, and each Addenda will be incorporated in the subsequent contract.

If any person or firm contemplates submitting a proposal and is in doubt as to the meaning of any part of the solicitation documents, they may submit a written request to the Capital Program Contracts Department for interpretation. Requests for interpretation must be submitted in writing prior to the proposal due date and addressed to the Capital Program Contracts Department.

Interpretations of proposal documents will be made by Addenda only. Copies of all Addenda will be posted on the FCS Capital Program Contracts Department's website, www.fcspurchasingdept.org, for all who have obtained a set of submittal documents from the Capital Program Contracts Department to use in the preparation of submittals. The Fulton County Schools will not be responsible for any other interpretations or explanations.

No oral interpretations will be made to offerors as to meaning of proposal documents. Requests for written interpretations shall be made in writing to the Capital Program Contracts Department. Failure on the part of the offeror to do so shall not relieve it of the obligation to execute such work in accordance with a later interpretation by the Fulton County Schools. All interpretations made to the offerors shall be made to the form of Addenda to the proposal documents and sent to all offerors. Offerors are strongly urged to make arrangements to visit and inspect the site(s) prior to proposing if the configuration, structure, condition, etc. of the site will influence the proposal for contract performance.

PROPOSAL CONDITIONS

SECTION II – CONTRACT AWARD**9. WITHDRAWAL OF PROPOSALS**

A proposal cannot be withdrawn after it is delivered to the FCS, unless the offeror makes a request in writing to the FCS prior to time set for opening proposals, or unless the FCS fails to accept or reject the proposal within ninety (90) days after the date fixed for receiving said proposals.

10. ADDITIONAL TERMS

The FCS shall not be bound by any terms and conditions included in any offeror's packaging, service catalog, brochure, technical data sheet or other document which attempts to impose any conditions at variance with or in addition to the terms and conditions contained in this solicitation or the FCS purchase order related to this solicitation or contract. If the offeror objects to any term or condition that shall relate to a contract resulting from this solicitation, the objection shall be clearly stated on a separate page entitled "Objection to Term or Condition" and placed in the proposal immediately after the executive summary.

If the objection is accepted by FCS it will be stated in the contract. If not stated in the contract the terms and conditions shall remain as written in the solicitation.

11. COMPLIANCE WITH LAWS

All property or services furnished in a Contract resulting from this solicitation shall comply with all applicable Federal, State and Local laws, codes and regulations.

12. PROTESTS

Protests dealing with the specifications or the solicitation shall be filed not later than three (3) working days prior to the proposal due date. Other protests shall be filed not later than three (3) working days after the proposal due date, or if the protest is based on subsequent action of the FCS, not later than three (3) working days after the aggrieved person knows or should have knowledge of the facts given rise to the protest. Protests are considered filed when received by the Capital Program Contracts Manager. Issues not raised in the initial protest may be deemed waived at the discretion of FCS. Protests which are not filed in a timely manner, as set forth above will not be considered.

The FCS reserves the right to continue with the project, notwithstanding a protest, if it finds, in its sole determination, that continuing with the project is in the public's best interest.

13. PURCHASING POLICY

The FCS Purchasing Policy, Purchasing Procedures and Regulations are incorporated to this solicitation (and, therefore, any contract awarded as the result of this solicitation) by reference. By participation in this solicitation a offeror, potential offeror or contractor agrees to be bound by the FCS Purchasing Policy, Purchasing Procedures and

PROPOSAL CONDITIONS

SECTION II – CONTRACT AWARD

Purchasing Regulations in any issue or action related to this solicitation or subsequent contract resulting from this solicitation.

14. OFFEROR BOND

A Offeror Bond in the amount of five per cent (5%) of the total cost of work shall be submitted with the proposal. Failure to provide a offeror bond will result in the proposal being considered non-responsive.

15. PERFORMANCE AND PAYMENT BONDS

The selected offeror will be required to furnish a performance bond and a payment bond issued by a surety company licensed by the Commissioner of Insurance of the State of Georgia to do business as an insurance company in the State of Georgia. The performance and payment bonds must be in an amount equal to one hundred percent (100%) of the contract price.

These bonds will be furnished as security for the faithful performance of the work included in this Construction Contract Agreement, including stipulations and agreements of the Contract, the payment of all bills and obligations arising out the performance of the Contract, which bills and obligations might or would in any manner become a claim against the Owner, and guaranteeing the work included in the Construction Contract Agreement against faulty materials or poor workmanship, or both, for one (1) year after final acceptance of the work by the Owner. All performance bonds and payment bonds provided by the selected offeror shall be accompanied by an affidavit from the selected offeror that an investigation has been made and that the surety is licensed by the Commissioner of Insurance to do business as an insurance company in Georgia and is further authorized to serve as a surety.

A performance bond satisfactory to Owner in amount equal to one hundred percent (100%) of the total contract price and a payment bond in amount equal to one hundred percent (100%) of the total contract price shall be required of the selected offeror to guarantee completion of the work under the contract and payment for all labor and materials.

Bonds shall be executed by an agent of the surety residing in the State of Georgia. The date of these bonds shall be the same as the date of the award letter. The surety shall appoint an agent for service in Atlanta, Georgia, upon whom all notices shall be shown on each bond.

The person executing the bonds on behalf of the surety shall file with the bonds a General Power of Attorney, unlimited as to amount and type of bonds covered by such Power of Attorney, and certified by an official of said surety.

The Construction Contract will not be executed by FCS until after the receipt and approval of the bonds by FCS.

PROPOSAL CONDITIONS

SECTION II – CONTRACT AWARD

If, at any time after the execution of the Construction Contract, the surety has been determined to be unsatisfactory by FCS, FCS shall have the right to require new bonds by issuing a notice to contractor that the surety on the bonds is unsatisfactory to FCS. Failure of the contractor to provide replacement performance and payment bonds, issued by a surety that is found to be satisfactory to FCS shall constitute a default under this paragraph.

In the event of the contractor's default under the terms and conditions of the General Conditions, FCS shall have such rights and may take such actions as are granted to FCS in the event of a default by the contractor pursuant to the General Conditions.

The FCS shall not be responsible for any costs incurred as a result of the selected offeror's failure to comply with its obligation to secure performance and payment bonds as set forth herein.

16. OFFEROR'S REPRESENTATIONS

Offeror, by submitting a proposal, warrants and represents that:

- a. Offeror has read, comprehends and submits the proposal in accordance with the provisions and requirements of the Proposal Documents.
- b. Offeror has visited the Project site and is completely familiar with the conditions under which the Work is to be performed and the local conditions as related to the requirements of the Proposal Documents.
- c. The proposal is based upon the scope, materials, equipment and systems as required by the Proposal Documents, without exception.
- d. Offeror has the expertise and financial capacity to perform and complete all obligations under the Proposal Documents.
- e. The individual executing the Proposal Documents is duly authorized and empowered to execute the Proposal Documents on behalf of the offeror.
- f. Offeror is aware of and will comply with all applicable code requirements in the performance of the Work.
- g. All expenses incurred by offeror in preparing the proposal shall be borne solely by offeror.

17. LICENSE REQUIREMENTS

At the time the proposal is submitted and throughout the performance of the Work, offeror shall ensure offeror and all subcontractors, regardless of tier, possess the appropriate license issued by the State of Georgia Professional Licensing Boards Division for the Work to be performed under the Contract. FCS shall verify offeror's licensing information prior to awarding the Contract.

PROPOSAL CONDITIONS

SECTION II – CONTRACT AWARD

1. CONTRACT LETTER

The Document 00400, Offer and Acceptance Form and/or establishing purchase order prepared by Fulton County Schools, furnished, to the selected Offeror within the time for acceptance specified, results in a binding contract without further action by either party. The contract shall consist of this solicitation and any addenda thereto, the selected Offeror's proposal (as amended by a best and final offer if called for), and the Document 00400, Offer and Acceptance Form. Unless specifically deleted in writing by addendum or amendment to one of the aforementioned documents of the contract by the FCS Capital Program Contracts Manager all terms and conditions of the FCS contract documents shall be in affect and shall govern if in conflict with any term or condition otherwise presented. The contract shall be interpreted, construed and given effect in all respects according to the laws of the State of Georgia.

2. CONTRACT AWARD

A contract will be awarded to the responsible and responsive offeror whose proposal is determined to be the most advantageous to the Fulton County Schools, based on the evaluation factors set forth below.

3. CONFLICTS IN TERMS AND CONDITIONS

In a conflict between terms and conditions in any document that will be part of the contract, FCBE terms and conditions shall govern.

4. INSURANCE

When the selected offeror has been identified, it will be notified of the necessity to provide the required insurance. Proof of insurance shall be provided within Ten (10) days of the date of written notification to the offeror.

A. The following general requirements apply to any and all work under this contract by all Contractors and Sub-Contractors of any tier.

- 1) Any and all insurance required by this contract shall be maintained during the entire length of this contract, including any extensions thereto, and until all work has been completed to the satisfaction of Fulton County Schools. Any and all insurance must be on an occurrence basis.

No Contractor or Subcontractor shall commence any work of any kind under a contract until all insurance requirements contained within the solicitation have been complied with and until evidence of all insurance requirements in each and every contract with each and every subcontractor of any tier and shall require the same to comply with all such requirements.

- (2) The Fulton County Schools shall be covered as an Additional Insured under any and all insurance required by the contract. Confirmation of this

PROPOSAL CONDITIONS

SECTION II – CONTRACT AWARD

shall appear on all certificates of insurance and on any and all applicable policies.

- (3) The Fulton County Schools shall be given no less than thirty (30) days prior written notice of cancellation of any policy of insurance required under this agreement. The Fulton County Schools shall be given not less than thirty (30) days prior written notice of any material changes to any policy of insurance required under this contract.
- (4) Each and every agent shall warrant when signing the certificate of insurance that he is acting as an authorized representative on behalf of the companies affording insurance coverage under the contract, that he is licensed by the State of Georgia to conduct insurance business in the State of Georgia, and that the companies affording insurance coverage are currently licensed by the State of Georgia and are currently in good standing with the Commissioner of Insurance for the State of Georgia.
- (5) Any and all companies providing insurance required by the contract must meet the minimum financial security requirements as set forth below. The rating for each company must be indicated on the certificate of insurance.

For all contracts, regardless of risk, companies providing insurance under this contract must have a current:

- (a) Best's Rating not less than A, and
- (b) Best's Financial Size Category not less than Class AVIII
- (6) In the event the Contractor neglects, refuses, or fails to provide the insurance required by the Contract Documents, or if such insurance is cancelled for any reason, FCS shall have the right, but not the duty, to:
 - (i) procure the same and deduct the cost thereof from monies then due or thereafter to become due to the Contractor; or, (ii) shall have the right to cancel the contract.

B. Worker's Compensation and Employer's Liability Insurance

The contractor shall procure and maintain Worker's Compensation and Employer's Liability Insurance in the following limits. Such insurance is to cover each and every employee who is or may be engaged in work under this contract.

Worker's Compensation	Statutory
Employer's Liability	
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

PROPOSAL CONDITIONS

SECTION II – CONTRACT AWARD**C. Comprehensive General Liability Insurance**

The contractor shall procure and maintain Comprehensive Insurance in an amount not less than \$1,000,000.00 for bodily injury and property damage combined single limit. The following specific extensions of coverage shall be provided and indicated on the certificate of insurance.

- 1) Comprehensive Form
- 2) Contractual Insurance
- 3) Personal Injury
- 4) Board Form Property Damage
- 5) Premises - Operations
- 6) Completed Operations

This coverage shall cover the use of all equipment, hoists, and vehicles on the site(s) not covered by Automobile Liability under this contract. Policy coverage must be on an occurrence basis.

D. Automobile Liability Insurance

The contract shall procure and maintain Automobile Liability Insurance in an amount not less than \$1,000,000.00 for bodily injury and property damage combined single limit. The following extensions of coverage shall be provided and indicated on the certificate of insurance:

- (1) Comprehensive Form
- (2) Owned, Hired, Leased and non-owned vehicles to be covered.

E. Hold Harmless Agreement

The Contractor shall Hold Harmless the Fulton County Schools from any and all claims, suits, actions, damages, liability and expenses in connection with loss of life, bodily or personal injury or property damage, including loss of use thereof, directly or indirectly caused by, resulting from, arising out of or occurring in connection with the performance of this contract. The Contractor's obligation shall not be limited by, or in any way to, any insurance coverage or by any provision in or exclusion of omission from any policy of insurance.

PROPOSAL CONDITIONS**SECTION III – POST AWARD****1. ASSIGNMENT**

By the submission of this proposal, the offeror agrees not to assign to others unless specifically authorized in writing by the FCS Capital Program Contracts Manager.

2. COSTS OF INSPECTION OR TESTING

Costs of inspection or testing which do not meet specifications shall be paid by the vendor.

3. PAYMENT

The Contractor shall invoice Fulton County Schools on a monthly basis, or, if payment is to be made by line item, when a single line item has been satisfactorily delivered. Complete payment will be made within thirty (30) days from either the date of delivery or the receipt of satisfactory invoice in triplicate, whichever occurs later. All invoices shall show the contract number, work performed and period of work performance.

4. TERMINATION FOR DEFAULT:

- a. In the event any property or service to be furnished by the Contractor under a contract or purchase order should for any reason not conform to the specifications contained therein or to the sample submitted by the Contractor with his proposal, the FCS may reject the property or service and may terminate the contract for default.

Prior to a termination for default, the Contractor will be given the opportunity to respond to a "cure notice" and/or a "show cause notice". In either case the Contractor will be expected to either correct the offending situation or provide an acceptable plan and time frame for correction within five (5) days of receipt of either notice. Failure to either correct the offending situation or provide an acceptable plan and time frame for correction will be cause for termination.

- b. If the contract is terminated for default, FCS may procure such property or services from other sources and shall have the absolute right to deduct from any monies due the Contractor or that may thereafter become due to the contractor, the difference between the contract price and the actual cost of the property or service to be replaced or substituted.
- c. Failure by a Contractor to perform on delivery of goods or services as specified may also result in the removal of the contractor from doing business with FCS for a period of up to one (1) year.

5. TERMINATION FOR CONVENIENCE:

FCS reserves the right to terminate for convenience a contract awarded through this solicitation.

PROPOSAL CONDITIONS

SECTION III – POST AWARD**6. PERMITS, TAXES, LICENSES, ORDINANCES, AND AGREEMENTS**

The Contractor shall, at his own expense, obtain all necessary permits, give all notices, pay all license fees and taxes, and comply with all applicable local, State and Federal laws, ordinances, rules and regulations. The Contractor shall maintain the licenses required in a current status after award and throughout the course of the contract.

In the performance of the contract, the Contractor shall comply with all local agreements which it has made with any association, union or other entity with respect to wages, salaries and working conditions, so as not to cause inconvenience, picketing or work stoppage.

7. NON-APPROPRIATION

Notwithstanding any other provision of this agreement, the parties hereto agree that the charges hereunder are payable to the Contractor by Fulton County Schools solely from appropriations received by Fulton County Schools. In the event such appropriations are determined in the sole discretion of the Associate Superintendent of Operations to no longer exist or to be insufficient with respect to the charges payable hereunder, this agreement shall terminate without further obligation of FCS at the end of any fiscal period (hereinafter referred to as "Event"). In such Event, the Associate Superintendent of Operations of FCS shall certify to the Contractor the occurrence thereof, and such certification shall be inclusive.

8. OFFEROR'S APPLICATION FORM

In order to register your company with Fulton County Schools' vendor database, each contractor will need to go to the FCS Capital Program Contracts Department website on the World Wide Web at www.fcspurchasingdept.org and complete the vendor application.

9. PROGRESS REPORTS

When requested by FCS, the Contractor shall furnish such reports as required.

PROPOSAL CONDITIONS

SECTION IV – OTHER**1. NONDISCRIMINATION**

The Contractor, by the submission of a proposal or the acceptance of an order or contract, agrees to provide the goods and services covered under the proposal or contract without discriminating in any way against any person or persons or refuse employment of any person or persons on account of color, religion, national origin, or sex.

2. FCS NONDISCRIMINATION

Fulton County School System does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, or any other legally protected status in any of its employment practices, education programs, services or activities.

3. MINORITY AND FEMALE BUSINESS ENTERPRISES

It is the intent of FCS to assure that Minority Business Enterprises (MBE) and Female Business Enterprises (FBE) have an equal opportunity to participate in FCS Purchasing requirements.

4. DRUG-FREE WORKPLACE

By submission of a proposal, the offeror certifies that he/she will not engage in the unlawful manufacture, sale distribution, dispensation, possession, or use of a controlled substance or drug during the performance of the contract and that a drug-free workplace will be provided for the contractor's employees during the performance of the contract. The offeror also certifies that he will secure from any subcontractor who works on the contract, written certification of the same drug free workplace requirements. False certification or violation by failing to carry out requirements of O.C.G.A. § 50-24-3 may cause suspension, termination of contract, or debarment of such offeror.

5. CERTIFICATION OF NONCOLLUSION

By submitting a proposal, the offeror certifies that: "This proposal is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a proposal for the same materials, supplies, or equipment, and is in all respects fair and without collusion or fraud. Collusive pricing is understood to be a violation of State and Federal law and can result in fines, prison sentences, and civil damage awards."

6. AUTHORIZED OFFICIAL

It is agreed that all conditions of the proposal shall be abided and that the person signing this proposal is authorized to sign the proposal for the offeror.

PROPOSAL CONDITIONS

SECTION IV – OTHER

7. TERMINATION OF SOLICITATION

In any event in which this solicitation is terminated or cancelled, in whole or in part, or in which all proposals are rejected, there shall be no liability on the part of FCS for any costs incurred by offerors or potential offerors in relation to the solicitation.

8. RIGHTS AND REMEDIES

The rights and remedies of FCS provided above shall not be exclusive and are in addition to any other rights and remedies provided by law or under the contract.

REQUEST FOR PROPOSAL

The Fulton County School System invites proposals for:

1. CONTRACT TYPE

The contract type contemplated for this requirement is a Lump Sum General Contract.

2. CONTRACT TIMEFRAME

The contract timeframe will be for the duration of the project.

3. CATEGORIES OF AWARD

Award will be made on an "All or None" basis.

4. OTHER PROCEDURES

a. Standard Fulton County Schools Program Management contract and general conditions will be used as the form of contract.

b. The requirements of Georgia House Bill 1079 shall govern in case of conflict with any terms and conditions of this document or contracts awarded.

5. RECEIPT OF ADDENDUM CLAUSE

Offerors are encouraged to contact the FCS Capital Program Contracts Department prior to submitting a bid or proposal to determine if any addendum has been issued which they have not received. Addenda issued to solicitations will be available at the FCS Capital Program Contracts Department or on the department web site located at www.fcspurchasingdept.org. However, FCS Capital Program Contracts Department shall not bear responsibility for receipt of addenda by mail.

6. OWNER'S REPRESENTATIVE

Management of the contract will be performed by the Owner's Representative, Parsons Corporation.

7. OFFEROR'S RESPONSIBILITY

It shall be the responsibility of the selected Offeror to meet all specifications and guidelines set forth therein. No offer will be considered that does not provide a serious and reasonable proposal to the solicitation. Each proposal will be evaluated in its entirety.

8. PURPOSE

Fulton County School (FCS) intends to contract for the services of a General Contractor for the construction of an Alpharetta Elementary School Addition/ Renovation. To qualify for consideration, firms shall possess and be prepared to provide expertise, financial resources, and personnel experienced in construction of educational facilities.

REQUEST FOR PROPOSAL

The services to be performed by the General Contractor shall have as their objective the efficient, economical, timely and complete delivery of the work by managing the construction of the project within the time and cost limitations and within established quality requirements.

9. SCOPE OF WORK

- a. This project will include all site and building work required for construction of an 14,000 New Classroom Addition and Renovations of the existing building, replacing the existing emergency generator and connect all critical building system electrical loads to the new emergency generator, replace carpeting in the existing offices, staff dining room and identified small classrooms and replace the existing galvanized water lines.
- b. FCS anticipates that construction on these projects will begin no later than 9/1/2009 and be substantially completed no later than 7/15/2010.
- c. The selected firm will provide the required services for a lump-sum price.

10. SPECIFICATIONS

The selected contractor shall adhere to the attached project manual that details the general conditions and specifications for execution of the work.

11. OFFEROR BOND

A Bond in the amount of five percent (5%) of the total price of work shall be submitted with the proposal. Failure to provide a bond will result in proposals being considered non-responsive. (See Page 9, Section I, Paragraph 14, Bond.)

12. PERFORMANCE AND PAYMENT BONDS

The selected offeror will be required to furnish a performance bond and a payment bond issued by a surety company licensed by the Commissioner of Insurance of the State of Georgia to do business as an insurance company in the State of Georgia. The performance and payment bonds must be in an amount equal to one hundred percent (100%) of the Offer Price. (See Page 9, Section I, Paragraph 15, Performance and Payment Bonds.)

13. SITE VISITS:

Fulton County Schools has a number of prototype schools of similar design to the one anticipated to be constructed on this site. Prior to submission of proposals, FCS will provide the opportunity to arrange walk through inspection tours of these existing schools upon request. To schedule a site visit, please contact FCS Capital Program Contracts Department at 404-669-8974.

REQUEST FOR PROPOSAL

14. SUBMISSION OF PROPOSAL:

Proposals shall be submitted in four sections: (1) price, (2) schedule, (3) technical capability, and (4) business stability. One (1) original and seven copies (7) of the proposal shall be provided in a loose-leaf, three-ring binder. The proposals shall be received up to 10:00 a.m. local time (as per the FCS Capital Program Contracts Department time clock) on 6 August 2009.

15. EVALUATION OF PROPOSALS:

Proposals will be evaluated on the following factors: (1) price, (2) schedule, (3) technical capability, and (4) business stability. The evaluation factors shall be scored by the following percentages totaling to a maximum score of 100. Firms receiving a minimum score of 80 shall be in the competitive range, be deemed to be "responsible offerors," be asked to engage in discussions, negotiations and revisions, and be asked to provide a Best and Final Offer (BAFO):

1.	Price	25 Points
2.	Schedule	30 Points
3.	Technical Capability	25 Points
4.	Business Stability	20 Points

16. PREPARING THE PROPOSAL:

Begin each section and subsection on a separate page. Number the pages in each section consecutively. If any confidential and/or proprietary information is included, then each page containing such information must be stamped "proprietary". It is not acceptable to label the entire proposal as confidential and proprietary.

17. EXECUTIVE SUMMARY

An executive summary of not more than two (2) pages stating the Offeror's overview of the project shall precede the specific required sections.

REQUEST FOR PROPOSAL

18. THE PROPOSAL

SECTION I – PRICE

In this section, the Offeror shall offer the lump-sum cost of construction and related services together with a schedule of values and requested unit pricing. The lump-sum price shall include any allowances specified in the project documents.

A. Base Price:

The Offeror proposes to fully and completely construct the Project in conformity with all requirements of the Contract Documents and furnish all necessary labor, material and equipment for such construction, and furthermore, to fully, completely, and strictly perform all obligations of the Contractor as set forth in the Contract Documents, for the lump sum contract price of _____ (\$_____). Said lump sum contract price is allocated, in its entirety, to the following minimum elements of the work:

General Conditions:	\$ _____
Earthwork:	\$ _____
Concrete Foundation and Slabs:	\$ _____
Masonry:	\$ _____
Structural Steel:	\$ _____
Roofing:	\$ _____
Doors & Windows:	\$ _____
Finishes:	\$ _____
Mechanical:	\$ _____
Electrical:	\$ _____
Fire Protection:	\$ _____
Plumbing:	\$ _____
Data:	\$ _____
Special Systems:	\$ _____
Other:	\$ _____
 Total:	 \$ _____

B. Specified Allowances:

Item Description	Qty	Unit	Allowance
Asphalt allowance	1	LS	\$100,000.00
Asbestos and Lead Abatement	1	LS	\$ 60,000.00
Fire and Smoke Caulk in Existing	1	LS	\$ 60,000.00
Unforeseen Infrastructure Upgrades	1	LS	\$120,000.00
Television Wall Brackets	1	LS	\$ 5,000.00
School and Site Signage	1	LS	\$ 50,000.00

TOTAL SPECIFIED ALLOWANCES \$395,000.00

REQUEST FOR PROPOSAL

	Estimated Quantity		Unit Cost	Estimated Cost
<u>Unsuitable Soil</u>				
<u>a. Mass</u>				
1. On site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
<u>b. Trench</u>				
1. On site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
<u>c. One C. Y. or greater per occurrence</u>				
1. On site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
<u>Rock</u>				
<u>a. Mass</u>				
1. On site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
<u>b. Trench</u>				
1. On site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
<u>c. One C. Y. or greater per occurrence</u>				
1. On site	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
<u>Fill</u>				
Replace w/structural fill	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
Replace w/57 stone	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
Replace w/Surge Stone	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
Replace w/G.A.B	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
Install Terratex HD Fabric	<u>1500</u>	Sy	x	_____ \$/Cy = \$ _____

TOTAL UNIT COST \$ _____

REQUEST FOR PROPOSAL**C. ALTERNATE**

A. Offeror shall submit a dollar amount for the following Alternates, as follows:

1. ALTERNATE NO. ONE: PRIME & THEN PAINT ALL MURALS, COLORS, AND HAND PAINTINGS IN CORRIDORS AND SUB CORRIDORS TO MATCH THE EXISTING OFF WHITE IN THE CORRIDORS. REPLACE ALL CORRIDOR AND SUB CORRIDOR BASES WITH NEW BASES. PAINT SCOPE TO INCLUDE PAINTING OVER BLUE STRIPE NEAR BASE IN CORRIDORS.

Deduct: (\$ _____)

2. ALTERNATE NO.TWO: REPLACE ALL EXISTING TOILET FIXTURES, FLUSH VALVES, LAVATORY SINKS & FAUCETS.

Deduct: (\$ _____)

SECTION II - SCHEDULE**A. Detailed Construction Schedule**

- (1) Provide a detailed construction schedule in Primavera or program compatible with Primavera P3ec V.5 indicating that the project will achieve substantial completion no later than 7/15/2010. Include critical path and demonstrate key approval and delivery dates to maintain the schedule, as well as opportunities for acceleration or improvement where possible. Milestones must show start and finish for each phase.

B. Schedule Performance

- (1) Demonstrate your ability from prior projects to deliver accelerated completion schedules and/or fast track projects as well as phased renovations where tenant will occupy building during construction as identified by owner.
- (2) Document your schedule management techniques for (a) managing a fast track project and (b) implementing recovery plans when applicable (c) managing a phased renovation project.
- (3) Provide qualifications of project scheduler.

SECTION III - TECHNICAL CAPABILITIES**A. Project Approach:**

In this section, the Offeror shall describe in detail the methodology and approach that will be used to accomplish this project. This should include, but not be limited to, the following: planning, mobilization, project coordination, construction access, minimization of impacts to community, field procedures, and estimating, forecasting and valuation

REQUEST FOR PROPOSAL

techniques. Offeror should include any other details that will aid in understanding how the job is proposed to be accomplished.

B. Capabilities:

- (1) Details of current and past experience in providing construction services for K-12 educational projects so as to demonstrate appropriate expertise in these areas.
- (2) Provide an outline of the organization that will be employed. The organization outline should clearly describe the numbers and professional category or personal to be employed, the chain of command of the organization, and the names of key personnel. Include resumes outlining the qualification of each key staff member who will be assigned to the project. The resumes shall include the individual's educational background, professional category (including certifications, licenses, etc.) and relevant work experience including similar major project participation.
- (3) Describe the work that will be self performed and provide a list of all major subcontractors including contact information and approximate contract value. The list should include subcontractors that have a significant role in the cost and schedule of the project, but not limited to the following: Site, Concrete, Steel, Masonry, Roofing, Finishes, Casework, Mechanical, Electrical, Data and Special Systems (Low Voltage).
- (4) Show evidence of established safety program, including OSHA Safety Record and Experience Modification Rate (EMR).
- (5) Show ability to guarantee cost effectiveness as evidenced by the results of successful contracts with comparable school districts.
- (6) Show evidence of established process and procedures in the areas of cost estimating, value engineering, project procurement, project management, and technology that qualifies the Offeror to provide construction services.
- (7) Describe any auxiliary or related services which may augment the proposed services and prove advantageous to Fulton County Schools. The Offeror must provide sufficient detail and evidence to show proficiency and experience in the provision of these services, as well as a detailed indication of how these services are to be provided or performed.
- (8) Describe other resources or services the contractor can make available to Fulton County Schools. Such services must be currently provided by the Offeror to other clients and resources must belong to the Offeror.

REQUEST FOR PROPOSAL**SECTION IV - BUSINESS STABILITY**

- A. History and Organizational Structure of the Firm** - Provide a cover letter introducing the company and including the corporate name, address and telephone number of the corporate headquarters and local office. The name and phone number of one individual who will be the company's primary contact with FCS for contract negotiation and the name of the project manager proposed for this project should also be listed. The cover letter should also include a brief history of the company and the present organizational structure of the firm describing the management organization and this project's coordination structure; if the firm is a partnership, indicate the name of all partners; if incorporated indicate where and when.
- B. Financial Status** - Describe the financial status of the firm and include the audited financial statements (income statements and balance sheets) for the past two (2) accounting years, as well as a D & B report.
- C. References** - List as references (names, address, contact persons and toll-free phone numbers) a minimum of three (3) clients of similar size and nature to FCS for which a project was completed within the last three (3) years. A brief description of the services provided shall accompany each reference.
- D. Previous Default** - Indicate if the Offeror has ever defaulted on a contract or been denied a proposal due to non-responsibility to perform. If so, provide the facts and circumstances.

20. REQUEST FOR INFORMATION

All questions and/or correspondence during the entire proposal process shall be directed in writing to the Capital Program Contracts Manager.

During the entire period of solicitation, proposal and evaluation, no Offeror shall contact any member or employee of FCS concerning this solicitation. Such action could result in the Offeror being removed from further consideration in this solicitation.

21. DISCUSSIONS, NEGOTIATIONS AND REVISIONS:

Fulton County Schools may require Responsible Offerors to participate in discussions, negotiations and revision regarding their proposals and qualifications for this project and to answer questions posed by the Fulton County Schools. Discussions will be held with responsible offerors at the Meadows Operations Center. Responsible offerors will be notified in writing if they are selected to engage in discussions.

22. BEST AND FINAL OFFERS (BAFOs)

BAFOs will be requested by the Capital Program Contracts Department in writing and with a specified date and time for submission. The BAFOs will be evaluated on the aforementioned factors and a written determination shall be made as to which proposal/BAFO is the most advantageous to the Fulton County Schools.

REQUEST FOR PROPOSAL

23. CONTRACT AWARD

The BAFOs will be evaluated based upon the factors set forth above. The contract will be awarded to the responsible and responsive offeror whose proposal is determined to be the most advantageous to the Fulton County Schools, taking into consideration all of the factors set forth above. The notice of intent to award the contract shall be made in writing and shall indicate the basis on which the award is to be made.

Goode Van Slyke
School Code: 1050

Request for Proposal
Addendum No. 4

DATE: _____

TIME: _____

PROPOSAL NO.: 401-10

NAME OF COMPANY: _____

The Fulton County Board of Education
5270 Northfield Boulevard
College Park, Georgia 30349

Gentlemen:

Having carefully examined the Proposal Conditions and Specifications entitled "**Request for Proposal No. 401-10**" for the performance of subject work all dated _____, and the Addendum(s) _____, as well as the site and premises, and conditions affecting the work, the undersigned proposes to furnish all services, labor and materials called for by them for the entire work, in accordance with said documents.

The Offeror's Checklist has been complied with, is completed, and is enclosed with this proposal.

COMMITMENT TO PERFORM AS PROPOSED

Respectfully submitted,

Name of Company

Address of Company

E-Mail Address

Business Telephone Number

Fax Number

Printed Name and Title

Signature

Date

The full names and addresses of persons and firms interested in the foregoing proposals as principals are as follows:

The legal name of the Offeror is:

OFFEROR'S CHECKLIST

PROJECT: ALPHARETTA ELEMENTARY SCHOOL ADDITION/ RENOVATION

PROPOSAL NO.: 401-10

- We have acknowledged receipt of addendum(s) received.
- We have included the 00400 Document , Offer and Acceptance Form Document
- We have included the 00410 Document, Offer Security Form for five (5% of the base offer amount).
- We have completed and included the 00480 Document, Non-Collusion form.
- Eight (8) copies (1-original, 7-copies) of all information requested have been provided.
- The proposal has been signed by an authorized principal or authorized official of the firm.
- No conditions, restrictions or qualifications have been placed by the company on this proposal that would have the proposal declared non-responsive.
- We are prepared to provide the insurance required in this solicitation.

TYPE OR PRINT NAME OF PERSON COMPLETING CHECKLIST

SIGNATURE OF PERSON COMPLETING CHECKLIST

DATE

(COMPANY FEDERAL ID NUMBER)

(E-MAIL ADDRESS)

COMPANY NAME

READ AND COMPLETE THIS CHECKLIST BEFORE SUBMITTING THE PROPOSAL

RETURN WITH PROPOSAL

It is the policy of the Fulton County School System not to discriminate on the basis of race, color, sex, religion, national origin, age, or disability in any employment practice, educational program or any other program, activity or service. If you wish to make a complaint or request accommodation or modification due to discrimination in any program, activity or service, contact Compliance Coordinator Mr. Ron Wade, 786 Cleveland Avenue, SW, Atlanta, Georgia 30315, or phone (404) 763-4585. TTY 1-800-255-0135

APPENDIX I

PREQUALIFICATION OF OFFERORS

PREQUALIFICATION OF BIDDERS

I. Purpose

This procedure sets forth standards to determine what Bidders are not responsible and to disqualify non-responsible Bidders from contracting or subcontracting with the Fulton County School Board (Board) and the Fulton County School District (District). It applies to all construction contracts which the Board and the District are required by law to award to the lowest responsible Bidder.

This procedure provides protection for the Board, the District and the public interest by only awarding contracts to responsible Bidders.

Each prospective Bidder shall receive a copy of the Prequalification Criteria as part of the District's bid package.

II. Authority

This procedure is adopted by the Board and District pursuant to O.C.G.A. § 20-2-50; O.C.G.A. § 36-91-20(f); and Procedure DJE (E) (1).

III. Responsibility

The Superintendent is generally responsible to implement and enforce this policy and may designate subordinate officers or employees to perform any functions provided for in this procedure.

IV. Definitions

"Adequate evidence" means evidence sufficient to support a reasonable belief in the truth of the fact or conclusion it is offered to support and does not require proof in accordance with technical rules of evidence.

"Bidder" means any person or entity responding to an invitation for bids, Request for Proposals, Request for Qualifications or otherwise seeking to contract with the Board or District or with Contractors.

"Contractor" means any person independent of the Board or District who does or seeks to do business with the Board or the District pursuant to mutual agreement and includes persons who subcontract with the Board or District Contractors.

"Conviction" means a judgment or conviction of a criminal offense by any court of competent jurisdiction, whether entered upon a verdict or a plea, including a plea of nolo contendere regardless of whether an appeal of the conviction has been sought.

"Debarment" means exclusion as a Contractor for a specified time.

"Disqualification" means exclusion as a Contractor from award of any particular contract.

"Person" means an individual, company, firm, association, corporation, partnership, or other legal entity.

V. Disqualification through Prequalification Standards

All Contractors are presumed to be qualified unless disqualified in accordance with this procedure.

- A. A Bidder or Contractor may be disqualified with respect to any particular bid or contract award for any one or more of the following causes:

Conviction or civil judgment of an offense in obtaining or attempting to obtain a public or private contract or subcontract or in the performance of such contract or subcontract;

Conviction or civil judgment under state or federal anti-trust statutes;

Conviction or civil judgment of any offense indicating a lack of business integrity or business honesty;

Conviction or civil judgment for a violation of any laws governing labor or employment, including wages and hours, child labor, or discrimination on the basis of race, color, sex or national origin;

Conviction or civil judgment for a violation of any election or campaign finance laws;

Failure without good cause to perform in accordance with the terms of a previous contract with Fulton County School Board and District; or failure to perform in accordance with the terms of one or more contracts with any person or entity within a reasonable period of time before or during the District's decision;

Failure to cooperate in any investigation or audit conducted by or through the Fulton County Board of Education or the Fulton County School District;

Providing false or misleading information as part of any prequalification statement, bid or contract, including but not limited to financial statements, fair employment forms, or product descriptions;

Unauthorized payments, gifts or other valuable consideration to any person having any official duties, direct or indirect, in connection with bidding, awarding or performing District contracts;

Inadequate financial resources to perform the contract;

Inadequate experience, organization, or technical resources to perform the contract;

Any other facts or circumstances showing a reasonable likelihood of inability to perform the contract including, but not limited to, that the Contractor proposes a Subcontractor who already is, or the District determines to be, disqualified under these criteria;

Any other cause which is determined to be so serious and compelling as to affect responsibility as a Contractor with Fulton County School District, including debarment or disqualification by another contracting entity; or any other lawful reason.

B. Procedure for Disqualification through Prequalification Procedure

The Superintendent or his or her designee shall begin disqualification proceedings by giving notice of the intent to disqualify to the Bidder or Contractor by certified mail or overnight delivery stating:

1. The intent to disqualify and the bid or contract involved;
2. The reasons for disqualification, along with a summary of the information on which the finding of disqualification is based;
3. The date the contract award is expected to be considered by the Board of Education; and
4. The disqualification shall be effective to render the Bidder or Contractor ineligible for the contract award at issue unless the Bidder or Contractor submits a written response before contract award by the Board of Education, including information sufficient to create a genuine dispute as to the facts on which it is based or to the application of this procedure.

VI. If a Bidder or Contractor timely opposes disqualification, the District official who issued the notice of disqualification shall, upon receipt of the response to disqualification, promptly refer this matter to the Board or, at their request, to the Superintendent or his or her designee. The Superintendent or his or her designee shall make a recommendation to the Board. The Board's decision shall be final.

A record shall be kept by the Superintendent of all disqualification procedures under this section and of all persons disqualified.

VII. Responsibility for Agents

Bidders, Contractors, and affiliates are deemed responsible for the acts of persons acting for or on their behalf.

VIII. Period of Disqualification

Depending on the nature of the basis for disqualification, it may be only for the particular project being bid or may be for a period of time not to exceed three (3) years. The notice advising a Contractor of such proposed disqualification shall state the limits of the period of disqualification.

The Board may reduce the period of disqualification upon the Bidder's or Contractor's written request supported by adequate evidence of good cause, such as:

- a. Reversal of the conviction or judgment upon which the disqualification was based without a new trial within a reasonable time;
- b. Bona fide change in ownership or management of the Bidder; or
- c. Elimination of other causes for which disqualification was imposed.

END OF SECTION

APPENDIX II

SB 529

FULTON COUNTY SCHOOLS

IMMIGRATION AND SECURITY FORM

- A. In order to insure compliance with the Immigration Reform and Control Act of 1986, P.L. 99-603 (IRCA) and the Georgia Security and Immigration Compliance Act O.C.G.A. § 13-10-90 et seq., Contractor must initial one of the sections below:

_____ Contractor has 500 or more employees and Contractor warrants that Contractor has complied with the Immigration Reform and Control Act of 1986, P.L. 99-603 (IRCA) and the Georgia Security and Immigration Compliance Act by registering at <https://www.vis-dhs.com/EmployerRegistration>, verifying information of all new employees and by executing any affidavits required by the rules and regulations issued by the Georgia Department of Labor set forth at Rule 300-10-1-.01 et seq.

_____ Contractor has 100-499 employees and Contractor warrants that no later than July 1, 2008, Contractor will register at <https://www.vis-dhs.com/EmployerRegistration> to verify information of all new employees in order to comply with the Immigration Reform and Control Act of 1986, P.L. 99-603 (IRCA) and the Georgia Security and Immigration Compliance Act and by executing any affidavits required by the rules and regulations issued by the Georgia Department of Labor set forth at Rule 300-10-.01 et seq.

_____ Contractor has 99 or fewer employees and Contractor warrants that no later than July 1, 2009, Contractor will register at <https://www.vis-dhs.com/EmployerRegistration> to verify information of all new employees in order to comply with the Immigration Reform and Control Act of 1986, P.L. 99-603 (IRCA) and the Georgia Security and Immigration Compliance Act and by executing any affidavits required by the rules and regulations issued by the Georgia Department of Labor set forth at Rule 300-10-.01 et seq.

- B. Contractor warrants that Contractor has included a similar provision in all written agreements with any subcontractors engaged to perform services under this Contract.

Signature _____ Date

Firm Name: _____

Street/Mailing Address: _____

City, State, Zip Code: _____

Telephone Number: _____

Email Address: _____

Goode Van Slyke
School Code: 1050

Request for Proposal
Addendum No. 4

CONTRACTOR AFFIDAVIT AND AGREEMENT

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 contracting with the Fulton County Board of Education has registered with and is participating in a federal work authorization program or any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986, P.L. 99-603 (IRCA), in accordance with the applicability provisions and deadlines established in O.C.G.A. § 13-10-91.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to this contract with (name of public employer), contractor will secure from such subcontractor(s) similar verification of compliance with O.C.G.A. § 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01- .08 or a substantially similar form. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the Fulton County Board of Education at the time the subcontractor(s) is retained to perform such service.

EEV/Basic Pilot/E-Verify Program User Identification Number

BY: Authorized Officer or Agent
(Contractor Name)

Date

Title of Authorized Officer or Agent of Contractor

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN
BEFORE ME ON THIS THE

DAY OF _____, 200_____

Notary Public
My Commission Expires:

*As of the effective date of O C G A § 13-10-91, the applicable federal work authorization program is the "EEV/Basic Pilot Program" operated by the U S Citizenship and Immigration Services Bureau of the U.S Department of Homeland Security, in conjunction with the Social Security Administration (SSA)

Goode Van Slyke
School Code: 1050

Request for Proposal
Addendum No. 4

SUBCONTRACTOR AFFIDAVIT

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 _____, which is under contract with the Fulton County Board of Education, and that the subcontractor has registered with and is participating in a federal work authorization program or any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986, P.L. 99-603 (IRCA), in accordance with the applicability provisions and deadlines established in O.C.G.A. § 13-10-91.

EEV/Basic Pilot/E-Verify Program User Identification Number

BY: Authorized Officer or Agent
(Subcontractor Name)

Date

Title of Authorized Officer or Agent of Subcontractor

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN
BEFORE ME ON THIS THE
____ DAY OF _____, 200____

Notary Public
My Commission Expires:

*As of the effective date of O.C.G.A. § 13-10-91, the applicable federal work authorization program is the "EEV/Basic Pilot Program" operated by the U. S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).

APPENDIX III

00 AND 01 FRONT END DOCUMENTS

**SECTION 00330
PRE-PROPOSAL REQUEST FOR INFORMATION**

1.01 GENERAL

- A. This section addresses Requests for Information of the Proposal Documents.

1.02 SPECIFIC

- A. Each Request for Information shall be submitted in writing to only the person and/or firm designated in Section 00310 – Project Directory, Item E.
- B. Clarifications, interpretations, corrections, and changes to the Proposal Documents will be made by Addendum as provided in Section 00900. Clarifications, interpretations, corrections, and changes to the Proposal Documents made in any other manner shall not be binding and the offeror shall not rely upon them.
- C. Each transmitted request shall contain the name of the person and/or firm filing the request, address, telephone and fax number, Specifications and/or Drawing number. The offeror is responsible for the legibility of hand written requests. Pre-proposal information requests shall be directed to Wilma A. Gibbs-Mathews, Capital Program Contracts Department via facsimile at (404) 305-2167 or emailed to cpcontracts@fulton.k12.ga.us. Only questions received prior to 4:30 p.m., 30 July 2009 and Substitutions submitted prior to proposal submission (as per the Capital Program Contracts Department) time clock will be considered or responded to. A written response to timely pre-proposal information requests will be made by Addendum issued by Fulton County Schools Capital Program Contracts Department not less than three (3) days prior to proposal submission.

DATE: _____
PROJECT NAME: **Alpharetta Elementary School Addition/ Renovation**
PROJECT NUMBER: N/A PROPOSAL NUMBER: **401-10**
TO: Wilma A. Gibbs-Mathews
FAX NUMBER: **404-305-2167** Email: cpcontracts@fulton.k12.ga.us
FROM: _____
ADDRESS: _____

TELEPHONE & FAX NUMBER: _____
DOCUMENT/DIVISION NUMBER: _____ DRAWING NUMBER: _____

REQUESTED INFORMATION _____

Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.

END OF SECTION

DOCUMENT 00400
ADDENDUM NO. 4
OFFER AND ACCEPTANCE FORM
RFP 401-10, ALPHARETTA ELEMENTARY SCHOOL ADDITION/ RENOVATION

Offeror Name: _____

1.01 PROPOSAL SUBMISSION INSTRUCTIONS

Submit this form, in a sealed envelope, plainly showing offeror's business license name and number, description of the Work and the proposal submission date; and deposit with **Capital Program Contracts Department** located at 5270 Northfield Boulevard, College Park, Georgia.

- A. Offerors shall keep the Proposal Acceptance Form intact and return all pages when submitting the PROPOSAL.
- B. Failure to submit the complete Proposal Acceptance Form may invalidate the PROPOSAL.

1.02 PROPOSAL DUE DATE: Before: **10:00 a.m. on 6 August 2009**

1.03 PROJECT IDENTIFICATION:

- A. The undersigned is familiar with the terms of the Contract, the local conditions affecting performance of Contract, the cost of the Work at the place where the Work is to be done, and with the Drawings, Specifications and all other PROPOSAL Documents. The undersigned hereby proposes and agrees to perform, within the Contract Time stipulated, the Work including all of its component parts; and to provide and furnish any and all of the labor, materials, tools, apparatus, facilities, expendable equipment, and all utility and transportation services necessary to perform the Work in accordance with the Contract and complete all Work in a workmanlike manner for:

Alpharetta Elementary School Addition/ Renovation RFP 401-10

In strict conformity with the Drawings and Specifications issued by:

Fulton County Schools
Fulton County, Georgia

1.04 Offeror acknowledges receipt of the following Addendum:

Number Number Number Number Number Number Number Number Number Number Number

1.05 BASE OFFER (MUST BE FULLY COMPLETED BY OFFEROR)

- A. Offeror will complete the Work in accordance with the Contract Documents for the following base OFFER amount including all allowances and alternates:

B. TOTAL OFFER AMOUNT

_____ (\$ _____)
(Use words) (Figures)

- C. The base OFFER amount includes all applicable taxes and does not include Federal Excise Tax as set forth in Article 6.38 of the General Conditions.
- D. The base OFFER amount includes all Contract Allowances, if any, as set forth in the Specifications or as described in Section 01025 - Allowances.

a. SPECIFIED ALLOWANCES

- 1. ALLOWANCE NO. ONE: Asphalt
Specification Section:

Sub-total = \$100,000.00

- 2. ALLOWANCE NO. TWO: Abatement
Specification Section:

Sub-total = \$60,000.00

- 3. ALLOWANCE NO. THREE: Fire and Smoke Caulk in Existing Building
Specification Section:

Sub-total = \$60,000.00

- 4. ALLOWANCE NO. FOUR: Unforeseen Infrastructure Upgrades
Specification Section:

Sub-total = \$120,000.00

- 5. ALLOWANCE NO. FIVE: Television Wall Brackets

Sub-total = \$5,000.00

- 6. ALLOWANCE NO. SIX: School and Site Signage

Sub-total = \$50,000.00

TOTAL SPECIFIED ALLOWANCES \$395,000.00

b. UNIT COST ALLOWANCE:

	Estimated Quantity		Unit Cost	Estimated Cost
<u>Unsuitable Soil</u>				
<u>a. Mass</u>				
1. On site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
<u>b. Trench</u>				
1. On site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
<u>c. One C. Y. or greater per occurrence</u>				
1. On site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
<u>Rock</u>				
<u>a. Mass</u>				
1. On site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
<u>b. Trench</u>				
1. On site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>50</u>	Cy	x	_____ \$/Cy = \$ _____
<u>c. One C. Y. or greater per occurrence</u>				
1. On site	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
2. Haul off site	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
<u>Fill</u>				
Replace w/structural fill	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
Replace w/57 stone	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
Replace w/Surge Stone	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
Replace w/G.A.B	<u>100</u>	Cy	x	_____ \$/Cy = \$ _____
Install Terratex HD Fabric	<u>1500</u>	Sy	x	_____ \$/Cy = \$ _____

TOTAL UNIT COST \$ _____

1.06 ALTERNATES (MUST BE FULLY COMPLETED BY OFFEROR)

A. Offeror shall submit a dollar amount for the following Alternates, as follows:

1. ALTERNATE NO. ONE: PRIME & THEN PAINT ALL MURALS, COLORS, AND HAND PAINTINGS IN CORRIDORS AND SUB CORRIDORS TO MATCH THE EXISTING OFF WHITE IN THE CORRIDORS. REPLACE ALL CORRIDOR AND SUB CORRIDOR BASES WITH NEW BASES. PAINT SCOPE TO INCLUDE PAINTING OVER BLUE STRIPE NEAR BASE IN CORRIDORS.

Deduct: (\$ _____)

2. ALTERNATE NO. TWO: REPLACE ALL EXISTING TOILET FIXTURES, FLUSH VALVES, LAVATORY SINKS & FAUCETS.

Deduct: (\$ _____)

B. A complete description of the alternates is set forth in Section 01030 – ITEMS (Alternates)

1.07 BASIS OF AWARD OF CONTRACT:

A. The best value responsive and responsible OFFER shall be determined by the best value OFFER amount including the allowances, unit costs, and any selected alternates for the base OFFER.

B. OWNER RESERVES THE RIGHT TO REJECT ANY AND ALL PROPOSALS.

Article 1 - Scope of Work

The CONTRACTOR shall perform, within the time stipulated in the Contract Documents, all of which are incorporated herein and shall provide all labor, materials, equipment, tools, utility services, transportation and everything else necessary to complete in a workmanlike manner, and in exact compliance with the terms of the Contract Documents, all of the Work required in connection with the following titled Project:

Alpharetta Elementary School Addition/ Renovation RFP 401-10

Article 2 - Time for Completion

The Work shall be commenced on the date stated in the OWNER Notice to Proceed. The time period for Substantial Completion of the Work shall be set forth in the Notice to Proceed issued by the OWNER and 01010 Exhibit A Milestone Schedule document.

TIME IS OF THE ESSENCE.

Article 3 - Hold Harmless, Defense and Indemnification

The CONTRACTOR, even if it is without fault itself, shall indemnify, defend and hold harmless the OWNER, the Board and its and their respective officers, employees, program administrators, representatives, agents and consultants, from every liability, claim, loss, cause of action, action, demand, penalty, cost, expense (including without limitation, attorneys' fees) related to or arising from:

1. Any injury to person or property sustained by the CONTRACTOR or by any person, firm, or corporation, employed directly or indirectly by it upon or in connection with the Work;

2. Any injury to person or property sustained by any person, firm, or corporation, caused by any act, neglect, default, or omission of the CONTRACTOR or any person, firm, or corporation, directly or indirectly employed by it upon or in connection with the Work, whether the injury or damage occurs upon or adjacent to the Work;

3. The furnishing or use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention, article, or appliance under the Contract Documents; and

4. As otherwise provided in the Contract Documents.

The CONTRACTOR at its own cost, expense, and risk, shall defend all legal proceedings that may be brought against all such potential indemnities for any such liability, claim, loss, cause of action, action, demand, penalty, cost and expense, and satisfy any resulting judgment that may be rendered against any of them whether or not the liability, claim, loss, cause of action, action, demand, penalty, cost and expense (including without limitation, attorneys' fees) was actually or allegedly caused wholly or in part through the negligence or other tortious conduct of any of them. OWNER shall have the right to approve counsel proposed for any such defense and shall be consulted with regard to any proposed settlement. This Article 3 is not meant to require the CONTRACTOR to defend, indemnify or hold harmless the potential indemnities from their own active negligence.

Article 4 - Insurance

CONTRACTOR will provide its own insurance coverage as to all types of insurance relevant to the Project in amounts of coverage and by carriers approved by the OWNER.

Article 5 - Bonding

If the amount of original award of the Contract exceeds TWENTY-FIVE THOUSAND DOLLARS (\$25,000.00), the CONTRACTOR shall furnish to the OWNER a Payment Bond (Material and Labor). CONTRACTOR shall also provide a Performance Bond. Both Bonds shall be for 100% of the Contract Amount and contain the terms and conditions required by Articles 5.10 and 5.11 of the General Conditions.

Article 6 - Provisions Required by Law Deemed Inserted

Each and every provision of law and clause required by law to be inserted in the Contract Documents shall be deemed to be inserted and the Contract Documents shall be read and enforced as though it were included in the Contract Documents. If through mistake or otherwise any such provision is not inserted, or is not correctly inserted, upon application of either party the Contract Documents shall forthwith be physically amended to make such insertion or correction.

PROPOSAL DATE: _____, 20_____

By _____ (SEAL)
(Firm Name as it appears on Business License)

(Signature of authorized person to sign Proposal)

(Print Name of authorized person to sign Proposal)

Business Address:

Phone No. _____

Fax No. _____

Federal Tax ID: _____

Email Address: _____

1.08 ACCEPTANCE

This Agreement is made and entered into on the date set forth on Page 4 of this Agreement, by and between the Fulton County Board of Education, by and through its Board of Education (hereinafter the "OWNER"), and

(Name as it appears on Contractor's Business License - to be filled in by OWNER /Contracts Department)

{sole ownership, partnership, corporation, joint venture, or other}

This Agreement is for the purpose of constructing that Project identified as

Alpharetta Elementary School Addition/ Renovation RFP 401-10

CONTRACTOR is the lowest responsive and responsible offeror in response to a Request for Proposal issued by the OWNER and represents that it is qualified to perform all of the terms, covenants, promises and conditions of this Contract.

Article 7 - Contract Amount

The OWNER shall pay, and the CONTRACTOR shall accept, in full payment for performance as required by the Contract Documents, the sum of

(To be filled in by OWNER / Contracts Department)

(\$ _____), subject to any additions or deductions, if any, as provided in the Contract Documents. It is understood and agreed that all applicable taxes are included in the Contract Amount and that the Federal Excise Tax, from which the OWNER is exempt, is not included. The OWNER, upon request, will furnish the CONTRACTOR such Tax Exemption Certificates as may be required by the Manufacturer or Dealer.

All of the above-named Contract Documents are intended to be complementary. Work required by one of the above-named Contract Documents and not by others shall be done as if required by all.

Executed on _____, 20____ at Atlanta, Georgia.

FULTON COUNTY BOARD OF EDUCATION

By _____
Superintendent

BLUE INK SIGNATURE REQUESTED
FAILURE TO SUBMIT THIS FORM OR ANY MODIFICATION(S) TO THIS FORM
SHALL RENDER THE PROPOSAL NON-RESPONSIVE
END OF DOCUMENT

DOCUMENT 00410
PROPOSAL SECURITY FORM

Bond Number _____

Surety
Offeror

FULTON COUNTY BOARD OF EDUCATION..... OWNER/Obligee
FIVE PERCENT (5%) OF THE AMOUNT OF THE BASE OFFER ATTACHEDAmount of Bond

Project Description: Alpharetta Elementary School Addition/ Renovation
Date of Proposal Submission: 6 August 2009
Project Number: N/A
Proposal Number: RFP 401-10

WHEREAS, the offeror is herewith submitting to OWNER the above described offer, which is attached hereto and made part thereof.

NOW, THEREFORE, the Surety and the offeror are firmly held and bound, jointly and severally, to OWNER in the amount set forth above, lawful money of the United States, for which payment we bind ourselves, our heirs, executors, administrators, and assigns, jointly and severally, by these presents.

If the offer or any part of the offer shall be accepted and a contract awarded to the offeror by OWNER, and if the offeror shall well, truly and fully perform all the terms, conditions, and obligations to be kept and performed on the part of the offeror, and shall within the required time enter into a written contract and shall furnish bond(s) as required by the contract and specifications, or the call for offers, or by law, with a surety acceptable to OWNER, then this obligation shall be void; otherwise it shall remain in full force and effect for a minimum period of 90 days from the date of the offer, or longer if required by law, or longer through mutual agreement of the OWNER and offeror.

This instrument and the amount of money set forth above shall be applied toward, but shall not be considered a limitation upon, any damages which may be sustained by OWNER if the offeror fails to execute a written contract, or fails to secure the necessary bond(s), or fails to comply with all the terms, conditions and obligations to be kept and performed on the part of the offeror.

The maximum amount of Surety's liability claimable and recoverable under this instrument shall be and hereby is expressly limited to the amount of money set forth above. In addition to the liability of the Surety under this bond, the Court shall award to the prevailing party in any suit brought on this bond reasonable attorneys' fees and costs, even if such amounts exceed the penal sum of this bond.

Dated this _____ day of _____ 20 _____

ACKNOWLEDGMENT BY AN ATTORNEY-IN-FACT

State of _____ SS

County of _____

On _____, before me,

_____, a Notary Public

Personally appeared _____
Personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

(Notary Seal)

OFFEROR

By (signed) _____
Signature of Authorized Person

Title _____

SURETY

By (signed) _____
Signature of Attorney-In-Fact

Address _____

City, State _____

Telephone _____

Signature of Notary

ATTACH CERTIFIED COPY OF POWER OF ATTORNEY AND ALL-PURPOSE ACKNOWLEDGMENT.
(THIS DOCUMENT CANNOT BE ALTERED, MODIFIED, OR CHANGED.)
[If you do not submit a certified or cashier's check, failure to submit this form shall render your proposal non-responsive]

Goode Van Slyke
School Code: 1050

Exhibit A – Milestone Schedule
Addendum #4 – July 28, 2009

CONTRACTOR shall commence performance of the Contract upon the date specified in the Notice to Proceed and shall furnish sufficient forces, facilities and materials, work such hours, including extra shifts and overtime operations, so as to fully perform the Work in accordance with the following Milestones.

Milestone	Description	Schedule	Liquidated Damages Amount Per Calendar Day
No. 1	<u>Notice of Intent to Award</u> : Day after School Board Approval	Immediately after Board Approval.	
No. 2	<u>Notice to Proceed</u> : Is established in accordance with Articles 1.27 and 2.2 of the General Conditions.	Immediately after receipt of Bonds and Insurance.	
No. 3	<u>Completion of Mobilization activities</u> : Is defined as Contractor mobilization completed, logistics plan submittal and approval (access, gates, parking, trailer locations, signage, site fencing complete, temporary offices complete (trailers storage bins, dumpsters), temporary utilities complete (water, electric, phone, sanitation, fire protection), Project signage complete, obtain all required permits, implementation of Storm Water Pollution Prevention measures, submission of CONTRACTOR Safety Plan, submission of CONTRACTOR Hazard Communication.	(3) Calendar days after receipt of Notice to Proceed.	
No. 4	<u>Initial 60-Day Look Ahead Schedule and Major Milestones Schedule of Project</u>	(10) Calendar days after receipt of NTP.	
No. 5	<u>Detailed Schedule Complete</u> : is defined as an OR approved Detailed Construction Schedule that meets all the requirements outlined in Division 01 Sections 0136 and 01010	(30) Calendar days after the effective date of NTP	
No. 6	<u>Phase I Building Substantial Completion Date/(TCO): Classroom Addition.</u> 1. All work is to occur after regular school business hours. 2. All after hours work must complete and clean before school resumes each	March 19, 2010	\$1,500

Milestone	Description	Schedule	Liquidated Damages Amount Per Calendar Day
No. 7	<p>morning.</p> <p>3. No work is to occur before noon during the CRCT testing week. (Please refer to FCS website for online schedule).</p> <p>4. No deliveries on site during the hours of 7-8:00 am and 2-3:00 pm.</p>	July 15, 2010	\$1,500
No. 8	<p><u>Phase II Building Substantial Completion Date/ (TCO): Interior Renovations of Existing Building.</u></p> <ol style="list-style-type: none"> 1. All work is to occur after regular school business hours. 2. All after hours work must complete and clean before school resumes each morning. 3. No work is to occur before noon during the CRCT testing week. (Please refer to FCS website for online schedule). 4. No deliveries on site during the hours of 7-8:00 am and 2-3:00 pm 		\$1,500
No. 9	<p><u>Punch-List Completion: is defined by OR verified satisfactory completion of all outstanding punch-list items.</u></p>	(30) Days after Substantial Completion per phase.	
No. 10	<p><u>Close-out and Final Payment Application: Is established in accordance with Article 14.20 of the General Conditions</u></p>	(30) Days after completion of Punch-List Completion.	
No. 10	<p><u>Total Contract Time:</u></p>	(318) Calendar days	

Alpharetta Elementary School Addition/ Renovation

Goode Van Slyke
School Code: 1050

RFP 401-10

01010-3

Exhibit A -- Milestone Schedule
Addendum #4 -- July 28, 2009

Update 6-30-08

SECTION 06 2000

FINISH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY:

- A. Work of this section includes plastic laminate and painted millwork for the project.
- B. Related work: Painting and coating.

1.2 SUBMITTALS:

- A. Shop drawings: Submit for finish carpentry. Indicate construction and installation details, species and grades of materials, finishes, plastic laminate selections and cabinet hardware selections.
- B. Product data: Submit for cabinet hardware and similar manufactured items. Submit with shop drawings.
- C. Samples: Submit as follows:
 - 1. Plastic laminate: Manufacturer's standard color and pattern selections for selection by Architect.
 - 2. Finish samples: Indicate selected finishes on samples of species and grade material specified.
 - 3. Hardware items: Submit if requested by Architect. Samples will be returned to supplier. **
- D. Preservative-treated wood certification: Submit for Architect's information only. Submit certification by treating plant, stating chemicals and process used, net amount of salts retained, conformance with applicable standards and moisture content after treatment.

1.3 QUALITY ASSURANCE:

- A. Applicable standards; comply with the following, as referenced herein:
 - 1. American Institute of Timber Construction (AITC).
 - 2. American National Standards Institute (ANSI).
 - 3. APA The Engineered Wood Association (APA).
 - 4. ASTM International (ASTM).
 - 5. American Wood Preservers Association (AWPA).
 - 6. Architectural Woodwork Institute (AWI), "Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program," 2005 Edition, herein referred to as AWI Standards. Work shall comply with applicable portions of AWI Standards.
 - 7. Hardwood Plywood and Veneer Association (HPVA).
 - 8. National Electric Manufacturers Association (NEMA).
 - 9. National Fire Protection Association (NFPA).
 - 10. Underwriters Laboratories, Inc., (UL).
 - 11. U. S. Department of Commerce, National Institute of Standards and Testing:
 - a. Lumber: PS 20.
 - b. Construction and Industrial Plywood: PS 1.

- B. Current grading rules of the following industry associations apply to wood products:
 - 1. National Hardwood Lumber Association (NHLA).
 - 2. Redwood Inspection Service (RIS).
 - 3. Southern Pine Inspection Bureau (SPIB).
 - 4. West Coast Lumber Inspection Bureau (WCLB).
 - 5. Western Wood Products Association (WWPA).

 - C. Grade marks: Identify lumber and plywood by official grade mark.
 - 1. Lumber: Grade stamp shall contain symbol of grading agency, mill number or name, grade of lumber, species or species grouping or combination designation, rules under which graded where applicable, and condition of seasoning at time of manufacture.
 - 2. Plywood: Appropriate grade trademark of the APA. Indicate type, grade, class, identification index and inspection and testing agency mark.
 - 3. Preservative-treated wood products: Preservative-treated lumber and plywood shall bear the quality standard stamp of the applicator, indicating preservative type, exposure conditions, year of treatment, treatment plant and treatment supervising agency.
 - 4. On components to be exposed to view, grade marks shall be located so as to be concealed in finished work.
- 1.4 DELIVERY, STORAGE AND HANDLING:
- A. Deliver no carpentry to project site until areas are ready for carpentry installation.
 - B. Immediately upon delivery to job site, place materials indoors, protected from weather.
 - C. Store materials a minimum of 6" above ground on framework or blocking, and cover with waterproof covering providing for adequate air circulation and ventilation. Store in dry, conditioned space.
- 1.5 PROJECT/SITE CONDITIONS:
- A. Field measurements: Take field measurements to ascertain exact millwork sizes. Indicate exact dimensions on shop drawings.
 - B. Install no interior finish carpentry until spaces are enclosed, dry and capable of being heated. Maintain temperature between 55 degrees F. and 80 degrees F. for 72 hours before beginning installation and afterwards until Date of Substantial Completion.
 - C. Maintain interior relative humidity at site between 25% and 55% before, during and after installation.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS:

- A. Moisture content:
 - 1. Interior: 8-13%.
 - 2. Exterior: 10-15%.
- B. Surfacing: Surface four sides dry (S4S-dry), unless otherwise noted.
- C. Dimensions: Indicated lumber dimensions are nominal. Comply with PS 20.
- D. Grades for exposed and semi-exposed finish carpentry lumber and plywood are based on AWI Standards. Grades for unexposed work are based on referenced grading rules.
- E. Drying: Kiln dried.

2.2 LUMBER:

- A. Species and grades:
 - 1. Unexposed millwork framing and blocking: Standard Grade West Coast Lumber.
 - 2. Interior semi-exposed millwork components: AWI II Grade, Poplar.
 - 3. Interior exposed and semi-exposed painted millwork and trim: AWI II, White Pine or Poplar. **

2.3 SHEET MATERIAL:

- A. Plywood:
 - 1. Unexposed and semi-exposed millwork and general carpentry: APA B-C, Exterior, Group I; "B" face for surfaces to receive paint finish, "C" face for unexposed and semi-exposed surfaces.
 - 2. Hardwood plywood: manufacturer's stock hardwood plywood, meeting ANSI/HPVA HP-1-2000.
 - 3. Fire-retardant-treated plywood shall meet AWPA U1-07, T1-07 AND P17-02.
- B. Medium density fiberboard:
 - 1. Acceptable products:
 - a. Louisiana-Pacific, Southern FibrePine.
 - b. Masonite International Corp., Baraboard.
 - 2. Type: Meeting ANSI A208.2, Grade MD-Exterior Glue; Class "C" fire hazard classification for 3/4" thickness.
- C. Hardboard: 1/4" thickness, tempered.
- D. Plastic laminates:
 - 1. Acceptable products:
 - a. Formica Corp., Formica.
 - b. International Paper, Decorative Products Division, Nevamar.
 - c. WilsonArt International, Inc., WilsonArt.
 - 2. Conforming to NEMA Standard LD3-2005, as follows:
 - a. Horizontal applications: Grade HGS.
 - b. Vertical applications: Grade VGS.

- c. Backing sheet: Grade BKH, undecorated plastic laminate.
 - d. Postforming applications: Grade VGP.
 - e. Chemical resistant applications: Grade VGP.
 - f. Fire-resistant applications: Grade HGP.
 - g. Solid color applications: Grade HGS.
3. Colors, textures and patterns: As selected by Architect from laminate manufacturer's standard full line selection.

E. Thermoset decorative overlay: Melamine; matte surface texture. Color and pattern as selected by Architect from manufacturer's standard color selection.

- + F. **PVC edge banding on doors, drawers and shelves only:**
 + **Minimum 3mm thickness PVC solid, high-impact edging.**
 + 1. **Edging shall be purified, color-through, acid-**
 + **resistant, pre-lamination primed edging, machine-**
 + **applied with waterproof hot-melt adhesives,**
 + **automatically trimmed.**
 + 2. **Provide inside/outside lengths full radiused for**
 + **uniform appearance.**
 + 3. **Provide custom colors as selected by Architect.**

2.4 TREATED WOOD PRODUCTS:

- A. Pressure-preservative-treated wood:
- 1. Treatment type: Water-borne preservative registered with EPA.
 - 2. AWPA standard:
 - a. Lumber, timber and plywood shall conform to applicable requirements of AWPA Standard U1-07 and T1-07 for species, product and end use.
 - b. Handling and care of pressure treated wood products shall conform to AWPA Standard M4-06.
 - c. Preservatives shall conform to AWPA P5-07.
 - 3. Preservative retention: As required by treatment type in accord with AWPA Standards for below- or above-ground use.
 - 4. Seasoning; re-dry after treatment to 19% maximum moisture content.
 - 5. Use:
 - a. Wood products in contact with concrete slabs-on-grade or foundations.
 - b. Nailers or blocking cast or built into concrete or masonry.
 - c. Wood products in contact with exterior walls.
 - d. Blocking, nailers, plates and similar wood products in conjunction with roof decks, roofing and roof parapets.
- B. Interior fire-retardant-treated wood:
- 1. Acceptable product; subject to compliance with specified requirements:
 - a. Chemical Specialties, Inc., D-Blaze.
 - b. Hickson Corporation, Dricon.
 - c. Hoover Treated Wood Products, Pyro-Guard.

2. Description: Pressure-impregnated with a chemical retardant tested and listed by Underwriters Laboratories, Inc., (UL). When tested in accord with ASTM E84-07 treated products shall have a flame spread of 25 or less and show no evidence of significant progressive combustion when the test is continued for an additional twenty minute period. In addition, flame front shall not progress more than 10'-6" beyond centerline of burners at any time during test.
3. Surface burning characteristics: F.R.-S rating in accord with Underwriters Laboratories, Inc. (UL).
4. AWPA standard: AWPA U1-07, T1-07 and P17-02.
5. Seasoning; kiln-dried after treatment to the following maximum moisture content:
 - a. Lumber: 19%.
 - b. Plywood: 15%.
6. Hygroscopicity: Maximum 28% equilibrium moisture content when tested in accord with ASTM D3201-07 at 92% relative humidity.
7. Use: As required by codes.

2.5 HARDWARE:

- A. Door and drawer pulls:
 1. Acceptable products:
 - a. Epco, Inc., #MC-402-4.
 - b. Sugatsune America, Inc., #SST-30M.
 - c. Stanley Works #4484, 4" long.
 2. Type: 4" long wire pull, US26D.
- B. Magnetic catches:
 1. Acceptable manufacturers:
 - a. Basis of design: Stanley Works #SP41.
 - b. Epco, Inc.
 - c. Sugatsune America, Inc.
 2. Finish: US26D satin chrome finish.
- C. Concealed hinges:
 1. Acceptable products:
 - a. Grass America, Inc., #3903.
 - b. Julius Blum, Inc., #71.6500 Series.
 - c. Sugatsune America, Inc., #H160-C.
 2. Type: 165 degree opening, self-closing.
- D. Closet shelf and rod bracket:
 1. Acceptable products:
 - a. Knappe and Vogt Mfg. Co., #1195.
 - b. Stanley Works, #7046.
 - c. Johnson Hardware, Inc., #9003.
 2. Provide one for each two feet or portion thereof, minimum two per shelf.
- E. Recessed shelf standards and supports:
 1. Acceptable manufacturers:
 - a. Basis of design: Knappe and Vogt Mfg. Co., #255 standard with #256 support.
 - b. Stanley Works.
 - c. Johnson Hardware, Inc.
 - d. Sugatsune America, Inc.
 - e. Hafele America Co.

2. Type: Steel.
 3. Finish: Finish as selected by Architect.
- F. Shelf standards and supports:
1. Acceptable manufacturers:
 - a. Basis of design: Knappe & Vogt Mfg. Co., #80 standards with #180 brackets.
 - b. Capitol Hardware. Inc.
 - c. Garcy Corp.
 - d. Stanley Works.
 - e. Johnson Hardware, Inc.
 2. Type: Steel.
 3. Finish: Finish as selected by Architect.
- G. Side mount drawer slides:
1. Acceptable products:
 - a. Basis of design: Accuride, #3832.
 - b. Grant Hardware Co., #5632.
 - c. Knappe and Vogt Mfg. Co., #1429.
 2. Type: Full extension, steel ball bearing.
 3. Capacity: 100 lb. capacity:
- H. Cabinet drawer/door lock:
1. Acceptable products:
 - a. Knappe and Vogt Mfg. Co., #986.
 - b. Sugatsune America, Inc., #3310.
 - c. Timberline Supply, Ltd., Style CB-230 deadlock and Type 230 cylinder body with lock plug.
 2. Type: Nickel-plated.
- I. Fasteners: Provide bolts, nails, screws, toggle bolts and similar fasteners as indicated or required to attach and secure work under this section.
1. Fasteners for trim shall be finishing nails for attachment to wood framing and trim-head screws for attachment to metal framing.
 2. Material and finish for non-pressure treated components shall be G90 hot dip galvanized steel or Type 304 stainless steel, except nails shall be hot dip galvanized.
 3. Material and finish for pressure-treated components shall be Type 316L stainless steel.
- J. Adhesives:
1. Glue: Type: Aliphatic- or phenolic-resin wood glue recommended by manufacturer's product data for general carpentry use.
 2. Installation adhesive for foam plastic moldings: Product recommended for indicated use by foam plastic molding manufacturer.
 3. Multipurpose construction adhesive: Formulation complying with ASTM D 3498 that is recommended for indicated use by adhesive manufacturer.
 4. Sealant: Elastomeric joint sealant complying with requirements in Joint Sealants section as applicable to joint substrates indicated.

2.6 FABRICATION:

- A. Quality grade for millwork shall be AWI Custom Grade for all mill-fabricated items.

- B. Fabricate finish carpentry in accord with approved shop drawings.
- C. Shop-assemble for delivery to site in units easily handled and to permit passage through building openings. Items which cannot be manufactured in one piece shall have joints at logical breaking points and shall be so noted on shop drawings.
- D. Shop prepare and identify components for grain matching during site erection.
- E. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
- F. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
- G. Seal faces and edges of medium density fiberboard to be sealed or finished.
- H. Perform veneer operations using hot press method using moisture-resistant, fire-retardant adhesives.
- I. Apply plastic laminate sheets in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners.
- J. **Edges:**
 - 1. **Edges of doors, drawers and shelves: Edgeband all exposed plastic laminate finish edges of doors, drawers and shelves with specified PVC edge banding.**
 - 2. **Other edges: Cap other exposed plastic laminate finish edges with material of same finish and pattern.**
- K. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
- L. Scribe, miter and accurately join members.
- M. Where countertops cannot be furnished in single lengths, join using compression type fasteners.
- N. Finish work shall be smooth, free from abrasion, tool marks, open joints or raised grain on exposed surfaces.
- O. Shelving: 3/4" (19-mm) medium-density fiberboard shelving with solid-wood front edge.

PART 3 - EXECUTION

3.1 GENERAL INSTALLATION AND WORKMANSHIP:

- A. Install work plumb, level, true and straight, without distortions. Shim using concealed shims.

- B. Finish work shall be smooth, free from abrasion, tool marks, raised grain grade markings or similar defects on exposed surfaces.
 - C. Cut work to fit unless specified to be shop-fabricated or shop-cut to exact size. Where carpentry and millwork abuts other finished work, scribe and cut for accurate fit. Before making cutouts, drill pilot holes at corners.
 - D. Distribute defects allowed in the quality grade specified to the best overall advantage when installing job-assembled work.
 - E. Install hardware in accord with manufacturer's instructions using anchor devices furnished with hardware items.
- 3.2 INSTALLATION OF MILLWORK:
- A. Install millwork in a manner consistent with the specified AWI Quality Grade, plumb, level, true and straight within 1/8" in 10'-0". Shim as required using concealed shims.
 - B. Secure to grounds, stripping and blocking with countersunk, concealed fasteners and blind nailing.
 - C. Scribe and cut for accurate fit to other finished work, with maximum gap of 1/32". Do not use additional overlay trim to conceal larger gaps.
- 3.3 FIELD FINISH:
- A. Field finish: Field finish painted woodwork in accord with the requirements of the Painting and Coating section. Prior to finishing, sand using 120 to 180 grit abrasive on a smooth sanding block, to remove scuff and handling marks, raised grain, scratches and effects of moisture exposure.
- 3.4 CLEANING AND PROTECTION:
- A. Protect finished and prefinished surfaces from work of other trades.
 - B. Prior to Date of Substantial Completion, examine work for damages. Repair or replace such damaged work to original condition.
 - C. Clean wood, metal and accessory items using a neutral cleaner. Check and correct operating mechanism for proper operation. Adjust and lubricate hinges, catches and other operating hardware.

End of Section

SECTION 07 8116

CEMENTITIOUS FIREPROOFING

PART 1 - GENERAL

1.1 SUBMITTALS:

- A. Samples: Submit 1'-0" by 1'-0" samples of each type fireproofing on 1/2" thickness gypsum board, applied in density required and 1" thickness.
- B. Product data: Indicate complete application instructions, along with the UL File Report or approved independent testing laboratory report on tested assembly or construction. Indicate material thicknesses for all conditions.

1.2 QUALITY ASSURANCE:

- A. Applicable standards; standards of the following, as referenced herein:
 - 1. ASTM International (ASTM).
 - 2. Underwriters Laboratories, Inc. (UL).
- B. Tests by fireproofing manufacturer: Fireproofing material shall have been tested by UL in accord with procedures of ASTM E119-08a and be listed in the UL "Fire Resistance Directory", 2009 Edition for cementitious material.
- C. Manufacturer's inspection: Manufacturer shall make an initial inspection of surfaces and application to assure compliance with manufacturer's product data.
- D. Field testing:
 - 1. Testing of fireproofing, as described below, shall be performed by an independent Testing Agency selected and paid for by Owner.
 - 2. Testing following installation will consist of thickness and density measurements of material in accord with ASTM E605-93(2006).
 - 3. Measurement criteria shall comply with fire-resistant material requirements of the International Building Code.
 - 4. Contractor shall advise Testing Agency in a timely manner to allow for completion of quality tests without interference with subsequent work and for assignment of personnel.
 - 5. Contractor shall pay cost of additional testing, including re-installation and re-testing of deficient fireproofing, as required, where improper or inadequate thicknesses or densities are achieved.
 - 6. Testing Agency will furnish copies of tests and reports to Architect and Owner.
- E. Thickness and detail indicated on drawings are diagrammatic only and are primarily to show extent. Fireproofing shall be in such thicknesses and details to achieve the fire rating classification ratings indicated.

1.3 PROJECT/SITE CONDITIONS:

- A. Environmental requirements:
 - 1. Provide adequate ventilation in areas to receive fireproofing during and minimum 24 hours after application of material.
 - 2. Do not apply spray fireproofing unless minimum ambient temperature and substrate temperature of 40°F. has been and continues to be maintained for minimum of 24 hours prior to and after application of material.
- B. Protection: Provide temporary enclosures to maintain temperature and prevent spray from contaminating air or collecting on adjacent areas. Protect applied fireproofing until permanent covering is installed.
- C. Prior to beginning fireproofing installation, verify that:
 - 1. Clips, hangers, supports, sleeves, studs and other items to penetrate fireproofing are in place before work begins.
 - 2. Ducts, piping, equipment or other items which would interfere with fireproofing application are not positioned until after work is completed.
 - 3. Steel is free of scaling, rust and paint which would inhibit adherence of fireproofing material.
 - 4. Shop primers for steel are compatible with fireproofing material and that adequate bonding can be obtained.
- D. Sequencing and scheduling: Schedule fireproofing work to begin only after installation of roofing and rooftop mounted mechanical equipment, and after placement of concrete on metal decking to receive fireproofing.
- E. Roof traffic: Prohibit traffic on roof areas during and after fireproofing application until material is cured and dried.

PART 2 - PRODUCTS

2.1 FIREPROOFING MATERIALS:

- A. Fireproofing for interior, dry, non-impact areas:
 - 1. Acceptable products:
 - a. Basis of design: W. R. Grace and Co., Monokote, Type MK-6/HY.
 - b. Carbolite, Pyrolite 15-High Yield (PL 15).
 - c. Isolatek International Corporation, Cafco 300 Cementitious Fireproofing.
 - 2. Characteristics:
 - a. Type: Mill-mixed, cementitious, spray-applied product meeting performance tests previously described herein and having minimum dry density of 15 pcf when tested in accord with ASTM E605-93(2006).
 - b. Bond strength: Minimum 300 psf when tested in accord with ASTM E736-00(2006).
 - c. Compressive strength: Maximum 10% deformation when subjected to a compressive force of 1400 psf, as tested in accord with ASTM E761-92(2005).

- d. Surface burning characteristics: Flame spread of zero, smoke development of zero, when tested in accord with ASTM E84-09.

- B. Water: Clean, potable and free from organic and mineral impurities harmful to fireproofing material application.

2.2 SPATTER COAT:

- A. Acceptable product: Basis of design is W. R. Grace and Co., Spatterkote.

- B. Type: As required by UL fire-rated assembly design indicated.

- C. Characteristics: Mill-mixed, Portland cement-based, cementitious, spray-applied fireproofing coating for installation with fireproofing material on steel decking.

- D. Water: Clean, potable and free from organic and mineral impurities harmful to fireproofing material application.

2.3 BONDING AGENT:

- A. Acceptable products:

1. Fiberlock Technologies, Firebond Adhesive.
2. Rohm & Haas Company, Rhoplex MC-76.

- B. Characteristics: Emulsion type, acrylic polymer latex bonding agent; UL approved for application in fire-rated assembly design indicated.

2.4 ACCESSORIES:

- A. Glass fiber mesh: Fiberglass scrim fabric, 3/32" to 3/16" square mesh; weight of 1.9 oz./sq. yd., minimum; 2.5 oz./sq. yd., maximum.

- B. Polypropylene fabric mesh: 1.25 oz./sq. yd. approximate weight; type as recommended by manufacturer's product data and UL approved for installation in fire-rated assembly design indicated.

- C. Adhesives: Type recommended by manufacturer and approved by UL for installation in fire-rated assembly design indicated.

2.5 MIXING AND APPLICATION EQUIPMENT:

- A. Type: Designated to achieve UL ratings specified, with accurate water control measuring device.

PART 3 - EXECUTION

3.1 EXAMINATION:

- A. Examine areas to receive fireproofing and verify that the following work is completed:

1. Roofing and rooftop mounted mechanical equipment installation.
2. Concrete placement to metal floor decking.

- B. Surfaces shall be clean and free from dirt, dust, grease, soil and loose material and other conditions which would prevent adhesion.
- C. Clean surfaces just prior to application of fireproofing materials.

3.2 BOND ADHESION TEST:

- A. Perform field bond adhesion test on existing painted steel surfaces to receive fireproofing to determine if adequate bond strength can be obtained. Conduct testing in accord with ASTM E736-00(2006).
- B. If results of bond test indicate that adhesion cannot be obtained or is inadequate to permit proper bonding with substrate, prepare and apply bonding agent to painted steel surfaces in accord with manufacturer's product data. Ensure that existing surfaces to receive fireproofing are well coated with bonding agent.

3.3 APPLICATION:

- A. Apply sprayed fireproofing materials after construction roof traffic has ceased. Application shall be in accord with manufacturer's product data and UL test report application procedures used to achieve hour ratings indicated.
- B. Apply spatter coat to steel decks Apply bonding agent to primed and painted surfaces prior to application of fireproofing material in accord with manufacturer's product data and fire-rated assembly design. Comply with UL requirements for drying time prior to overspraying of fireproofing material.
- C. Install glass fiber mesh or polypropylene fabric mesh to side of each steel joist to receive fireproofing, using adhesive applied to joist chord and web members in accord with manufacturer's product data and UL fire-rated assembly design indicated.
- D. Fireproofing shall not flake, dust, powder, crack, spall or separate from surface to which it is applied, and in addition, it shall be free from seams, staging breaks and holes.
- E. Field testing: Conduct field testing of spray fireproofing material as specified herein. Notify Testing Agency for inspection and testing as work progresses. As determined by Testing Agency, correct deficient installation of material to meet specified requirements.

3.4 PATCHING AND CLEANUP:

- A. Patch damage to fireproofing work caused by other trades and Testing Agency prior to Date of Substantial Completion. Repairs shall be indiscernible in finished work.

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- B. Cleanup: At completion of fireproofing work and patching, equipment shall be removed, and surfaces not required to be fireproofed shall be cleaned of "fallout."

End of Section

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Door Hardware

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SECTION 08 7100

DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY:

- A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.

1.2 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. This Section Includes the Following:
 - 1. Butts and Hinges
 - 2. Cylinders
 - 3. Locksets and Trim
 - 4. Exit Devices
 - 5. Door Closers
 - 6. Protection Plates
 - 7. Stops
 - 8. Weather-stripping / Gasketing
 - 9. Thresholds
 - 10. Door Bolts/Coordinators
 - 11. Overhead Door Holders
 - 12. Door Pulls & Pull Plates
 - 13. Silencers
 - 14. Security Equipment
 - 15. Smoke Detectors and Magnetic Holders
 - 16. Fasteners
- C. Related Sections:
 - 1. Section 06 2000: Finish Carpentry
 - 1. Section 08 1113: Hollow Metal Doors and Frames
 - 2. Section 08 1400: Wood Doors
 - 3. Division 26: Electrical
 - 2. Section 28 3100: Fire Detection and Alarm
- D. Items listed in other sections and not included herein as

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1. Cabinet hardware
2. Bath accessories
3. Nameplates, room numbers exit signs
4. Handicapped signs
5. Roll-up door hardware, except cylinders
6. Smoke detectors, 120VAC power, wiring, and conduit
7. Door position switches
8. At acoustic doors, cam lift hinges, astragals, door bottoms, seals
9. Access panels, except padlocks
10. Gate hardware, except locking devices
11. Local alarms and annunciators

1.3 SYSTEM DESCRIPTION:

A. Design Requirements:

1. Exit doors, including each leaf of a pair of doors, shall always be operable from the inside by the simple turn of a lever or by pushing an exit device without the use of a key or any special knowledge or effort; this includes doors of toilet and storage rooms.
2. Unless otherwise specified, hand activated door opening hardware shall be located 36 inches above the finish floor.
3. Dead bolts are not permitted unless operable with a single effort by a lever type hardware.
4. The force applied to operate exit hardware shall not require more than 15 lbs. applied in the direction of travel.
5. Refer to applicable Headings for system description for electric and electro-pneumatic hardware products.

B. References:

1. Standards of the following as referenced:
 - a. American National Standards Institute (ANSI)
 - b. Door and Hardware Institute (DHI)
 - c. Factory Mutual (FM)
 - d. National Fire Protection Association (NFPA)
 - e. Underwriters' Laboratories, Inc. (UL)
 - f. UL 10C - Fire Tests Door Assemblies
 - g. Warnock Hersey

C. Regulatory Requirements:

1. Comply with IBC requirements.

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2. Hardware for fire doors shall conform to requirements of UL - Fire Protection and Accident Hazard Equipment and the Georgia Fire Marshal, NFPA - 80 and IBC requirements for positive pressure testing.
3. All hardware shall meet the requirements of IBC.
4. Department of Justice, Office of the Attorney General, Americans with Disabilities Act, Public Law 101-336 (ADA).
5. CABO/ANSI A117.1: Providing Accessibility and Usability for Physically Handicap People, 1992 edition.

1.4 SUBMITTALS:

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification sections.
- B. Shop Drawings:
 1. Wiring Diagrams: Submit diagrams, templates, instruction, and installation manuals, for electrical and electronic hardware.
- C. Product Data:
 1. To include manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
- D. Finish Hardware Schedule:
 1. Hardware Schedule should be coordinated with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 2. Schedule Content: Based on hardware indicated, organize schedule into vertical format "hardware sets" indicating complete designations of every item required for each door or opening. Use specification Heading numbers with any variations suffixed a, b, etc. Include the following information:
 - a. Type, style, function, size, and finish of each hardware item.
 - b. Name and manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of each hardware set cross-referenced to

- indications on Drawings both on floor plans and in door and frame schedule.
- e. Explanation of all abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for hardware.
 - g. Door and frame sizes and materials.
 - h. Keying information.
 - i. Cross-reference numbers used within schedule deviating from those specified.
 - 1) Column 1: State specified item and manufacturer.
 - 2) Column 2: State prior approved substituted item and its' manufacturer.
3. Submit Schedule to include recap sheet:
- a. Include manufacturer's name, catalog number, relevant dimensions, fasteners, location of item in Work, door index number, frame material, door material, door size and thickness, door type, handing, fire-rating (if any), and sound-rating (if any).
 - b. Hardware shall be listed by "Headings" in following manner:
 - 1) HEADING NO. 1
 - a) 1 SINGLE/PAIR OF DOORS NO. (Room and Number) from/to (Room and Number)
 - b) 1 SINGLE/PAIR OF DOORS NO. (Room and Number) from/to (Room and Number)
 - c) SPEC. NO. List the appropriate numbers from the specified LIST OF FINISH HARDWARE
 - d) List of finish hardware
 - 2) HEADING NO. 2, etc.
4. Submittal Sequence:
- a. Submit final schedule at earliest possible date particularly where acceptance of hardware schedule must precede fabrication of other work that is critical in the Project construction schedule. Include with schedule the product data, samples, shop drawings of other work affected by door hardware, and other information essential to the coordinated review of schedule.
 - b. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.

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E. Templates:

1. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

F. Material Samples:

1. Submit Samples of door hardware as required by Architect.

G. Submittal Review Time:

1. In lieu of what is specified in Section 01300, allow at least twenty-eight (28) days in the Milestones Schedule for Architect and/or OR review following receipt of submittal.

H. Contract closeout submittals:

1. Operation and maintenance data: Complete information for installed door hardware.
2. Warranty: Completed and executed warranty forms.

1.5 QUALITY ASSURANCE:

- A. Single Source Responsibility: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from a single manufacturer.
- B. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the Project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that employs an experienced architectural hardware consultant (AHC) who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation.
- C. Require supplier to meet with Owner to finalize keying requirements and to obtain final instructions in writing.
- D. Required supplier to meet with installer prior to beginning of installation of door hardware.
- E. Fire-Rated Openings: Provide door hardware for fire-rated

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openings that complies with NFPA Standard No. 80 requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and tested by UL or Warnock Hersey for given type/size opening and degree of label. Provide proper latching hardware, door closers, approved-bearing hinges and seals whether listed in the Hardware Schedule or not. All hardware shall comply with standards UL 10C (Positive Pressure testing).

- F. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL labels indicating "Fire Door to be equipped with Fire Exit Hardware") provide UL label on exit devices indicating "Fire Exit Hardware".
- G. Coordinate and deliver templates or physical Samples of finish hardware items to manufacturer of interfacing items, such as doors and frames, in a timely manner to insure orderly progress of Work.
- H. Comply with the following as a minimum requirement:
 - 1. Conform to Builders Hardware Manufacturers Association (BHMA) Finish Code, latest edition.
 - 2. Comply with ANSI A 117.1 and recommendations of ADA-AG.

1.6 DELIVERY, STORAGE AND HANDLING:

- A. Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.
- B. Packaging of door hardware is responsibility of supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.
- C. Inventory door hardware jointly with representatives of hardware supplier and hardware installer until each is satisfied that count is correct.
- D. Deliver individually packaged door hardware items promptly to place of installation (shop or Project site).

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- E. Provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable so that completion of the Work will not be delayed by hardware losses both before and after installation.

1.7 WARRANTY:

- A. Manufacturer shall provide a minimum 2 year material warranty except as follows:
 - 1. Provide a 10 year manufacturer's material warranty for door closers.
 - 2. Provide a 5 year manufacturer's material warranty for locksets and exit devices.

1.8 MAINTENANCE MATERIALS:

- A. Extra Materials:
 - 1. If applicable, provide 5 percent or a minimum of one, whichever is greater, of the following hardware: locksets, exit devices, closers, and electric or electronic hardware. Transmit to OR before Substantial Completion.
- B. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Butts and Hinges:
 - 1. Acceptable manufacturers:
 - a. Hager Hinge Company
 - b. Stanley Works
 - c. Ives*
 - d. Bommer
 - 2. Characteristics:
 - a. Width of hinges shall be of sufficient size to clear trim and sized in accordance with specified manufacturer's published recommendations.
 - b. Furnish one pair of hinges for door leaves up to

- 5 feet high. Furnish one additional hinge for every additional 30 inches or fraction thereof.
- c. Butts for doors shall be non-rising, loose pins, with button tip, except as otherwise indicated, provide hinge pins as follows:
 - 1) Out-Swing Exterior Doors: Non-removable pins.
 - 2) Out-Swing Corridor Doors with Locks: Non-removable pins.
 - 3) Interior Doors: Non-rising pins.
 - 4) Tips: Flat button and matching plug. Finished to match leafs.
 - d. Exterior and interior out-swinging doors with butt hinges shall be furnished with hinges furnished with a setscrew in hinge barrel to make pin non-removable (NRP); exterior and interior out-swinging doors hinges shall have continuous hinges furnished with hospital tips. Butt hinges at exterior out-swinging doors shall have stainless steel pins and bearings.
 - e. Hinges installed on painted doors shall be BHMA 600 finishes. Hinges installed on stained and varnished doors shall be BHMA 626 for bronze/brass base metals and BHMA 652 for steel base metal. Exterior doors shall have non-ferrous hinges. Fire-rated doors shall have steel or stainless steel hinges.
 - f. Continuous gear hinges to be manufactured of extruded 6063-T6 aluminum alloy with anodized finish, or factory painted finish as scheduled.
 - g. All hinges are to be manufactured to template. Uncut hinges shall be non-handed and shall be a pinless assembly of three interlocking extrusions applied to the full height of the door and frame without mortising.
 - h. Vertical door loads shall be carried on chemically lubricated polyacetal thrust bearings. The door and frame leaves shall be continually geared together for the entire hinge length and secured with a full cover channel. Hinge to operate to a full 180°.
 - i. Hinges to be milled, anodized and assembled in matching pairs. Fasteners supplied shall be 410 stainless steel, plated and hardened.
 - j. Provide UL listed continuous hinges at fire doors. Continuous hinges at fire doors (suffix -

FR) shall meet the required ratings without the use of auxiliary fused pins or studs.

- k. All hinges shall have replaceable bearings or carry a life-time warranty.
- l. Following doors shall be furnished with full-length continuous pin and barrel type hinges:
 - 1) Student Dining Exit.
 - 2) Student Multi-Occupancy Toilet.
 - 3) Locker Rooms
 - 4) Gymnasium Exits.
 - 5) 42-inch Wide or Wider Doors.
 - 6) Corridor Doors Opening to the Exterior.
 - 7) Cross-corridor doors not equipped with hold-open devices.
 - 8) Stair doors.

B. Cylinders:

- 1. Acceptable manufacturers:
 - a. Best Access Systems*
- 2. Characteristics:
 - a. Review the keying system with the Owner and provide the type required (master, grandmaster or great-grandmaster), integrated with Owner's existing system.
 - b. Equip locks with cylinders for interchangeable-core pin tumbler inserts. Furnish only temporary inserts for the construction period, and remove these when directed by the owner.
 - c. Installation of the permanent cores and keys shall be coordinated with the owner. All work shall be provided by Best Lock Company or a subcontractor trained and approved by Best Lock Company.
 - d. Metals: Construct lock cylinder parts from brass or bronze, stainless steel, or nickel silver.
 - e. Comply with Owner's instructions for master keying and, except as otherwise indicated, provide individual change key for each lock that is not designated to be keyed alike with a group of related locks.
 - 1) Permanently inscribe each key with number of lock that identifies cylinder manufacturer's key symbol, and notation, "DO NOT DUPLICATE."
 - f. Key Material: Provide keys of nickel silver only.

- g. Key Quantity: Furnish 3 change keys for each lock, 5 master keys for each master system and 5 control keys. Provide 10 construction master keys and 3 each control keys.
- h. Deliver keys to Owner. Contact Maintenance Coordinator, Mike Peek at (770) 969-3434.

C. Locksets and Trim:

- 1. Acceptable manufacturers:
 - a. Best Access Systems 45H Series x 16H
 - b. Schlage* L9000 x 07A
- 2. Unless otherwise specified, locks shall be of mortise type, complying with ANSI A156.13, grade 1.
 - a. Chassis: cold-rolled steel, handing field-changeable without disassembly.
 - b. Latchbolts: 3/4-inch throw stainless steel anti-friction type.
 - c. Lever Trim: through-bolted, accessible design, cast or solid rod lever as scheduled. Spindles: independent break-away.
 - d. Thumbturns: accessible design not requiring pinching or twisting motions to operate.
 - e. Deadbolts: stainless steel 1-inch throw.
 - f. Electric operation: Manufacturer-installed continuous duty solenoid.
 - g. Strikes: 16 gage curved stainless steel, bronze or brass with 1" deep box construction, lips of sufficient length to clear trim and protect clothing.
 - h. Scheduled Lock Series and Design: Best Access Systems 45H Series x 16H.
 - i. Certifications:
 - 1) ANSI A156.13, 1994, Grade 1 Operational.
 - 2) ANSI/ASTM F476-84 Grade 30 UL Listed.
- 3. Unless otherwise specified, escutcheons shall be 7-1/2 inches by 2-1/4 inches wide x .050 thick minimum.
- 4. Levers shall be cast, and shall return to within 1/2 inch of face of door.
- 5. Outside lever shall be pinned. Inside lever shall be by "Allen Head Set Screw" or by "Spanner Ring Nut".
- 6. Lock strikes shall be curved lip type, with exposed edges and corners rounded, of sufficient length to protect jamb and trim, and shall not extend more than 1/8 inch beyond trim, jambs or face of doors in pairs. At out-swinging pairs with overlapping astragal, strike shall have a 7/8" lip-to-center dimension.

- Dust box shall be provided for door locks.
7. Locksets throughout shall be lever type of same manufacture.
- D. Exit Devices:
1. Acceptable manufacturers:
 - a. Von Duprin*, CD99/99/33A Series
 2. All exit devices shall be one manufacturer. No deviation will be considered.
 3. Characteristics:
 - a. Unless otherwise specified, exterior doors shall be furnished with rim touch bar device; right hand reverse active leaf - night latch function x cylinder x hardened cylinder ring x flush pull x sex nut and bolt. Left-hand reverse inactive leaf - exit only x flush pull x sex nut and bolt.
 - b. Unless otherwise specified, interior doors shall be furnished with rim touch bar device; right hand reverse active leaf-lever handle x cylinder, left hand reverse inactive leaf; exit only.
 - c. All exit devices shall be "UL" listed for life safety. and be listed by the Georgia Fire Marshal. All exit devices for fire rated openings shall have "UL" labels for "Fire Exit Hardware."
 - d. Exit devices throughout shall be touch bar types of same manufacture.
 - e. Lever design shall match lock levers.
 - f. Exit devices shall be furnished sized for the specific door width and height.
 - g. All exit devices mounted on labeled wood doors shall be mounted on the door per the door manufacturer's requirements.
 - h. All trim shall be thru-bolted to the lock stile case. All devices to be installed with hex nuts and bolts.
 - i. All exit devices shall be made of brass, bronze, stainless steel, or aluminum material, plated to the standard architectural finishes to match the balance of the door hardware. Painted finishes are not accepted.
 - j. Provide glass bead conversion kits to shim exit devices on doors with raised glass heads.
 - k. Equip rim exit devices with a roller strike.
 - l. All exit devices shall be non-handed.
 - m. Touchpad shall extend a minimum of 1/2 of the door width. Touchpad height shall exceed height

of mechanism case or rail assembly to eliminate pinch parts. If touchpad height does not exceed height of mechanism case/rail assembly provide insert/filler on top and bottom of touchpad along mechanism case/rail assembly to prevent pinch part. Plastic touch pads are not acceptable.

- n. All latchbolts to be the deadlocking type. Latchbolts shall have a self-lubricating coating to reduce wear. Plated or plastic coated latchbolts are not acceptable.
- o. When removable mullions are listed provide the type controlled by a key cylinder under the master key system. (Keyed removable mullions) On new additions use keyed mullions on doors where removable mullions are needed.
- p. No vertical rod exit devices shall be used on exterior doors.
- q. Dogging mechanism shall be mechanical hook and eye type. No plastic dogging cams shall be allowed.
- r. "Exit Device to include impact resistant, flush mounted end cap design to avoid damage due to carts and other heavy objects passing through an opening. End cap shall be of heavy-duty metal alloy construction and provide horizontal adjustment to provide flush alignment with device cover plate. When exit device end cap is installed, no raised edges will protrude."

E. Door Closers:

- 1. Acceptable manufacturers:
 - a. LCN Closers*, 4011 X MC, 4111 X MC, 4111 CNS X MC, 4111 S CNS X MC
- 2. Characteristics:
 - a. Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder.
 - b. All closers shall utilize a stable fluid withstanding temperature range of 120oF to -30oF without seasonal adjustment of closer speed to properly close the door. Closers for fire-rated doors shall be provided with temperature stabilizing fluid that complies with standards UL 10C.
 - c. Spring power shall be continuously adjustable over the full range of closer sizes, and allow

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for reduced opening force for the physically handicapped. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed and back check.

- d. All closers shall have solid forged steel main arms (and forearms for parallel arm closers) and where specified shall have a cast-in solid stop on the closer shoe ("CNS"). Where door travel on out-swing doors must be limited, use "CNS or S-CNS" type closers. Auxiliary stops are not required when crush type closers are used.
- e. Overhead concealed closers shall have spring power adjustable for 50% increase in closing power and fully mortised door tracks.
- f. All surface closers shall be certified to exceed ten million (10,000,000) full load cycles by a recognized independent testing laboratory. All closers (overhead, surface and concealed) shall be of one manufacturer and carry manufacturer's ten year warranty (electric closers to have two year warranty).
- g. Access-Free Manual Closers: Where manual closers are indicated for doors required to be accessible to the physically handicapped provide adjustable units complying with ADA and ANSI A-117.1 provisions for door opening force.
- h. Closers to be installed to allow door swing as shown on plans. Doors swinging into exit corridors shall provide for corridor clear width as required by code. Where possible, mount closers inside rooms.
- i. All closers shall have full, deep-drawn, one-piece metal covers (MC). Covers with welded or mitered edges are not acceptable. All closers are to be installed with sex nuts and bolts.
- j. Powder coating finish to be certified to exceed 100 hours salt spray testing by ETL, an independent testing laboratory used by BHMA for ANSI certification.
- k. Combination Door Closers and Holders: Provide units designed to hold door in open position under normal usage and to release and automatically close door under fire conditions. Incorporate an integral electromagnetic holder mechanism designed for use with UL listed fire

detectors, provided with normally closed switching contacts.

1. Magnetic Door Holders to be heavy duty wall or floor mounted with metal housing and complete mounting hardware. Provide 24V holding coils unless otherwise scheduled.
- m. Door closers shall conform to ANSI A156.4, Grade 1, IBC and ADAAG 4.13.10 - Door Closers.
- n. Door closer shall be full rack and pinion type, adjustable back check, and sweep and latch speed with key regulating screws.
- o. Provide spacer block or support bracket for securing fifth screw on closer arm shoe. Provide special brackets, shoes, or other attachment devices as required.
- p. Maximum pressure to operate doors shall not exceed following:
 - 1) Fire rated doors: The authority having jurisdiction may determine the maximum force, not to exceed 15.0 lbs. to operate fire doors to achieve positive latching.
 - 2) Exterior doors: 5.0 lbs.
 - 3) Interior doors: 5.0 lbs.
3. Door closers shall be installed at the following:
 - a. Exterior doors
 - b. Fire rated doors
 - c. Corridor doors
 - d. Toilet doors

F. Stops:

1. Acceptable manufacturers:
 - a. Trimco
 - b. Ives*
 - c. Rockwood Manufacturing
2. Characteristics:
 - a. Refer to Hardware Headings.
 - b. Floor stops shall be mounted to protect door and trim.
 - c. Furnish stop of appropriate height, minimum 3/4" above undercut of door.
 - d. Where the specified floor stop cannot be installed or would present a pedestrian hazard, omit and furnish a heavy-duty overhead stop (US32D finish); if closer is specified, furnish closer with integral spring-cushion stop arm.

- G. Weatherstripping / Gasketing:
 - 1. Acceptable manufacturers:
 - a. National Guard Products, Inc.*
 - b. Pemko
 - c. Zero Weatherstripping Co., Inc.
 - 2. Characteristics:
 - a. Install gaskets and intumescent seals on fire rated doors and frames.
 - b. Unless otherwise specified, install weatherstripping on doors from air-conditioned spaces to the exterior: fastener-applied frame seals, nylon-brush door sweeps, and, at pairs, astragals.
 - c. Types: Indicated in Hardware Headings.

- H. Thresholds:
 - 1. Acceptable manufacturers:
 - a. National Guard Products, Inc.*
 - b. Pemko
 - c. Zero Weatherstripping Co., Inc.
 - 2. Types: Indicated in Hardware Headings.
 - 3. Unless otherwise specified, thresholds shall conform to accessibility standards ANSI A 117.1.

- I. Push Plates:
 - 1. Acceptable manufacturers:
 - a. Trimco
 - b. Ives*
 - c. Rockwood Manufacturing
 - 2. Characteristics:
 - a. Exposed Fasteners: Provide manufacturers standard exposed fasteners.
 - b. Material to be extruded/forged, stainless steel, per the Hardware Headings.
 - c. Plates shall be 0.050 thick, 6 inches x 16 inches minimum, with beveled edges.
 - d. Door Pulls: Pulls shall have protective plate mounted under pull, 0.050 inches thick, 4 inches x 16 inches beveled on 4 edges.
 - e. Hardware Cutouts: Pull plates and push plates installed over locking hardware shall have cylinder and turn lever cutouts as required.

- J. Door Bolts:
 - 1. Acceptable manufacturers:
 - a. Trimco

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- b. Ives*
- c. Rockwood Manufacturing
- 2. Characteristics:
 - a. Flush bolts to be forged brass 6-3/4" x 1", with 1/2" diameter bolts. Plunger to be supplied with milled surface one side which fits into a matching guide.
 - b. Automatic flush bolts to be UL listed as top and bottom bolts on a pair of classified fire doors. Bolt construction to be of rugged steel and brass components.
 - c. Self-latching flush bolts to be UL listed as top and bottom bolts on a pair of classified fire doors. Bolt construction to be of rugged steel and brass components.
 - d. Automatic flush bolts and self-latching flush bolts shall be UL listed for fire door application without bottom bolts (LBB).
 - e. Coordinator to be soffit mounted non-handed fully automatic UL listed coordinating device for sequential closing of paired doors with or without astragals.
 - f. Provide filler pieced to close the header. Provide brackets as required for mounting of soffit applied hardware.
 - g. Strike plates for automatic bolts shall be provided for active door.
 - h. Provide dust proof strikes for bottom bolts.
 - i. Provide brackets as required for items fastened to coordinators.
 - j. Provide door strike plates for both doors with coordinators.

K. Overhead Door Holders:

- 1. Acceptable manufacturers:
 - a. Glynn Johnson*
 - b. Rixson Firemark
- 2. Characteristics:
 - a. Provide heavy duty door holders of stainless steel.
 - b. Holder to be installed with the jamb bracket mounted on the stop.

- L. Door Pulls & Pull Plates:
 - 1. Acceptable manufacturers:
 - a. Trimco
 - b. Ives*
 - c. Rockwood Manufacturing
 - 2. Characteristics:
 - a. Provide concealed thru-bolted trim on back to back mounted pulls, but not for single units.
 - b. Material to be extruded/forged/cast, stainless steel.
 - c. Provide units sized as shown in Hardware Headings.

- M. Protective Plates:
 - 1. Acceptable manufacturers:
 - a. Trimco
 - b. Ives*
 - c. Rockwood Manufacturing
 - 2. Characteristics:
 - a. Provide manufacturers standard exposed fasteners for door trim units consisting of either machine screws or self-tapping screws.
 - b. Materials:
 - 1) Metal Plates: Stainless Steel, .050 inch (U.S. 18 gage).
 - c. Fabricate protection plates not more than 2 inches less than door width on hinge side and not more than 1 inch less than door width on pull side.
 - d. Heights:
 - 1) Kick plates to be 10 inches in height.
 - 2) Mop plates to be 10 inches in height.

- N. Silencers:
 - 1. Acceptable manufacturers:
 - a. Hager
 - b. Ives*
 - c. Rockwood Manufacturing
 - 2. Three for each single doors; four for pairs of doors.

- O. Smoke Detectors and Magnetic Holders: Coordinate electrical devices with Division 26 and the Drawings.

- P. Fasteners: Shall match finish of hardware. Provide fasteners for all hardware at toilet rooms, custodian rooms, kitchen doors, and exterior doors: stainless steel

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for chrome, aluminum, or stainless finish hardware; brass or bronze for brass or bronze finish hardware. Provide Phillips flat-head screws complying with the following requirements:

1. For metal doors and frames install machine screws into drilled and tapped holes.
2. For wood doors and frames install threaded-to-the-head wood screws.
3. For fire-rated wood doors install #12 x 1-1/4 inch, threaded-to-the-head steel wood screws.
4. Finish screw heads to match surface of hinges or pivots.

2.2 MATERIALS AND FABRICATION:

- A. **Manufacturer's Name Plate:** Do not use manufacturers' products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise acceptable to Architect.
 1. Manufacturer's identification will be permitted on rim of lock cylinders only.
- B. **Base Metals:** Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI/BHMA A156 series standards for each type of hardware item and with ANSI/BHMA A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.
- C. **Fasteners:** Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
- D. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.
- E. **Furnish screws for installation with each hardware item.** Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of this other work as

closely as possible including "prepared for paint" surfaces to receive painted finish.

- F. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent no standard units of type specified are available with concealed fasteners. Use thru-bolts for installation of all closers, exit devices and overhead stops. Coordinate with wood doors and metal doors and frames where thru-bolts are used as a means of reinforcing the work, provide sleeves for each thru-bolt or use sex screw fasteners.

2.3 FINISH:

- A. Unless otherwise specified, finish of hardware shall be dull chromium-plated BHMA 652 for steel-based metals, BHMA 626 for brass-based metals, except for kick plate, levers, escutcheons, push plates, continuous hinges, lock strike plates, and exit device touch bars, which shall be BHMA 630. Levers for locksets and exit devices shall be BHMA 630.
- B. Unless otherwise specified, overhead door closers and brackets shall be BHMA 689, to match other finish hardware in same room or space.
- C. Match items to the manufacturer's standard color and texture finish for the latch and lock sets (or push-pull units if no latch of lock sets).
- D. Provide finishes that match those established by ANSI or, if none established, match the Architect's sample.
- E. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.
- F. The designations used to indicate hardware finishes are those listed in ANSI/BHMA A156.18, "Materials and Finishes," including coordination with the traditional U.S. finishes shown by certain manufacturers for their products.
 - 1. Hinges (Exterior): 630 (US32D) Satin Stainless Steel
 - 2. Hinges (Interior): 652 (US26D) Satin Chrome Plated Steel

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3. Continuous Hinges: 628 (US28) Clear Anodized Aluminum finish to match doors @ aluminum entrance systems
4. Flush Bolts: 626 (US26D) Satin Chrome Plated Brass/Bronze
5. Locks: 630 (US32D) Satin Stainless Steel
6. Exit Devices: 628 (US28) chassis, 689 (Powder Coated) covers, and 630 (US32D) touch pads
7. Door Closers: 689 (AL) Powder Coat
8. Push Plates: 630 (US32D) Satin Stainless Steel
9. Pull Plates: 630 (US32D) Satin Stainless Steel
10. Protective Plates: 630 (US32D) Satin Stainless Steel
11. Door Stops: 626 (US26D) Satin Chrome Plated Brass/Bronze
12. Overhead Holders: 630 Satin Stainless Steel
13. Thresholds/Weatherstripping: 627/628 (US27/US28) Aluminum

PART 3 - EXECUTION

3.1 INSTALLATION:

- A. Finish hardware shall be installed as specified in Finish Hardware Schedule.
 1. Placement of Hardware: Finish hardware shall be installed as indicated on hardware placement sheets attached to end of this section, except as specifically indicated or required to comply with governing regulations and except as otherwise directed by Architect.
 2. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 9 Sections. Do not install surface-mounted items until finishes have been completed on the substrates involved.
 3. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
 4. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

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5. Provide necessary screws, bolts, anchors, and fastenings, of required sizes and type for proper installation of hardware. Exposed screws shall have Phillips heads, and wood screws shall be fully threaded.
6. Fitting: Hardware shall be accurately fitted and, with exception of prime-coated butt or continuous hinges, bar-type coordinators, and flat astragals, shall be removed before finish painting is installed. Upon completion of finish painting and/or sealing, permanently install the hardware.
7. Anchorage of Hardware: Hardware fastened to concrete, masonry, or gunite construction, shall be provided with drop-in expansion anchors by "Red Head Multi Set II" or "Rawl Steel". Pilot holes of suitably lesser diameter shall be drilled prior to the insertion of wood and sheet metal screws.
8. Door escutcheons and push plates shall be installed with stainless steel or bronze, oval, "Phillips Head", fully threaded screws, not less than 3/4 inch - No. 6.
9. Exit devices shall be mounted with non-ferrous sex nuts and fully threaded machine screws, except where through bolts engage outside trim of locking case.
10. Mullion strike shall be installed with fully threaded machine screws.
11. Door closer shall be installed for maximum degree of opening of each door.
12. Following shall be installed with sex nuts and fully threaded machine screws.
 - a. Door closers
 - b. Door pulls
13. Install exterior doorstops as required. On new concrete, stops shall be installed with 1/4-20 screws. On asphalt concrete, stops shall be installed with 1/4-20 screws to an anchor plate set in a concrete monument. Anchor plate shall be Trimco 1268, or equal. Floor stops shall not be located in the path of travel and shall be located no more than 4 inches from walls.
14. Kick plate:
 - a. Kick plates shall be installed with screws at each corner, and screws evenly spaced along each side not more than 3 inches apart on centers.
 - b. Except on wood doors, screws shall be undercut pan head.

15. Thresholds shall be installed with 1/4-20 screws, Pour-Roc, and coped to trim.
 - a. Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements specified in Division 7 Section "Joint Sealers."
16. Sound Seals and Weather-stripping / Gasketing:
 - a. Comply with manufacturer's instructions and recommendations to the extent installation requirements are not otherwise indicated.
 - b. A mounting screw shall be installed within 2 inches of cuts or corners of weather-stripping and/or gasketing.
 - c. Weatherstripping and/or gasketing shall be installed with No. 8 - 3/4 inch Tek Phillips pan head screws.

3.2 ADJUSTING AND CLEANING:

- A. Before Substantial Completion, hardware shall be cleaned and inspected. Where hardware is deemed defective, repair or replace as required.
- B. Door Closers: Final adjustments shall be performed before Substantial Completion, with mechanical system balanced and in operation.
- C. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.
- D. Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to function properly with final operation of heating and ventilating equipment.
- E. Clean adjacent surfaces soiled by hardware installation.

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3.3 EXAMINATION:

- A. Upon completion of installation, verify correct installation of hardware, according to reviewed Hardware Schedule and Keying Schedule. Verify that all finish hardware is in optimum working condition.
- B. Door Hardware Supplier's Field Service
 - 1. Inspect door hardware items for correct installation and adjustment after complete installation of door hardware.
 - 2. Instruct Owner's personnel in the proper adjustment and maintenance of door hardware and hardware finishes.
 - 3. File written report of this inspection to Architect.
- C. Prior to project completion, representatives of the lock, exit device and overhead closer manufacturer(s) shall inspect all units and certify that all units are installed in accordance with the manufacturer's instructions, and are regulated properly and functioning correctly. A written report shall be provided to the Architect as to the inspection and shall include appropriate certificates.

3.4 PROTECTION:

- A. Protect the Work of this section until Substantial Completion.

3.5 FINISH HARDWARE SCHEDULE:

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HW SET: 01

DOOR NUMBER:

001

EACH TO HAVE:

2	CONTINUOUS HINGES	224HD	IVE
2	FIRE EXIT DEVICES	99L-F-07	VON
2	RIM CYLINDERS	1E72	BES
1	MULLION	KR9954	VON
1	CYLINDER	1E74 (FOR MULLION)	BES
2	SURFACE CLOSERS	4111 EDA MC	LCN
2	KICK PLATES	8400 10" (BOTH SIDES)	IVE
2	MAGNETIC HOLD-OPENS	SEM 7830 X COORD VOLTAGE	LCN
1	SET SEALS	5020B	NGP
1	ASTRAGAL SET	5060	NGP

COORDINATE INSTALLATION OF MAGNETIC HOLD-OPENS WITH FIRE AND ELECTRICAL SYSTEM

HW SET: 02

DOOR NUMBER:

002 005 102 109 110 117 119 126 127 134

EACH TO HAVE:

3	HINGES	5BB1	IVE
1	CLASSROOM LOCK	45H7R16H	SCH
1	FLOOR STOP	FS441	IVE
1	SET SEALS	5020B	NGP

HW SET: 03

DOOR NUMBER:

003

EACH TO HAVE:

1	CONTINUOUS HINGE	224HD	IVE
1	FIRE EXIT DEVICES	99NL	VON
1	RIM CYLINDER	1E72	BES
1	HC OPERATOR	4640	LCN
2	ACTUATORS	8310-852T X 8310-876	LCN
1	FLOOR STOP	FS18S	IVE
1	KICK PLATE	8400 10" (BOTH SIDES)	IVE
1	SET SEALS	5020B	NGP
1	THRESHOLD	425	NPG
1	SWEEP	C607A	NGP

NOTE: COORDINATE WITH ELECTRICAL. PROVIDE 120VAC AT FRAME HEAD. LOCATE ACTUATORS AS DIRECTED BY ARCHITECT.

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HW SET: 04

DOOR NUMBER:

004 073

EACH TO HAVE:

2	CONTINUOUS HINGES	224HD X EPT	IVE
2	POWER TRANSFERS	EPT-2	
2	FIRE EXIT DEVICES	EL9927L-F-LBR 07	VON
2	RIM CYLINDERS	1E72	BES
1	POWER SUPPLY	PS873-2 X FA	VON
2	ADA OPERATORS	4640	LCN
2	ACTUATORS	8310-852T X 8310-876	LCN
2	KICK PLATES	8400 10"	IVE
2	MAGNETIC HOLD-OPENS	SEM 7850 X COORD VOLTAGE	LCN
1	SET SEALS	5020B	NGP
1	ASTRAGAL SET	5060	NGP
1	KEYSWITCH	653-04/L2	SCH
1	CYLINDER	1E74 (FOR KEYSWITCH)	BES

COORDINATE INSTALLATION OF MAGNETIC HOLD-OPENS WITH FIRE AND ELECTRICAL SYSTEM

NOTE: COORDINATE WITH ELECTRICAL. PROVIDE 120VAC AT FRAME HEAD. LOCATE ACTUATORS AS DIRECTED BY ARCHITECT.

USE KEYSWITCH TO HOLD LATCHES RETRACTED. LATCHES TO RELEASE ON FIRE ALARM. OPERATOR POWER TO DROP ON FIRE ALARM.

HW SET: 05

DOOR NUMBER:

006A 006B

EACH TO HAVE:

1	CONTINUOUS HINGES	224HD	IVE
1	EXIT DEVICE	99L-BE	VON
1	SURFACE CLOSER	4111 SCUSH MC	LCN
1	KICK PLATES	8400	IVE
1	THRESHOLD	425	NGP
1	SET SEALS	5020B	NGP
1	DOOR SWEEPS	C627A	NGP

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HW SET: 05A
DOOR NUMBER:
006C

EACH TO HAVE:

2	CONTINUOUS HINGES	224HD	IVE
1	MULLION	KR4954	VON
2	EXIT DEVICES	99L	VON
2	CYLINDERS	1E72	BES
1	MORTISE CYLINDER	1E74 (FOR KR)	BES
2	SURFACE CLOSERS	4011 X MC X ST1544	LCN
2	OH STOPS	GJ900S	GJ
2	KICK PLATES	8400	IVE
1	THRESHOLD	896S	NGP
1	SET SEALS	5020B	NGP
2	DOOR SWEEPS	C627A MT OUTSIDE	NGP
2	DOOR SWEEPS	C607A MT INSIDE	NGP
1	MULLION SEAL	5100	NGP

NOTE MOUNT THRESHOLD WITH LIP CENTERED UNDER DOOR. MOUNT SWEEPS ON BOTH SIDES OF DOOR TO CONTACT THRESHOLD.

HW SET: 06
DOOR NUMBER:
041

EACH TO HAVE:

2	CONTINUOUS HINGES	224HD	IVE
1	MULLION	KR9954	VON
2	FIRE EXIT DEVICES	99L-F-07	VON
2	RIM CYLINDERS	1E72	BES
1	MORTISE CYLINDER	1E74 (FOR KR)	BES
2	SURFACE CLOSERS	4111 SCUSH MC	LCN
2	KICK PLATES	8400 10" (BOTH SIDES)	IVE
1	SET SEALS	5020B	NGP

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HW SET: 07

DOOR NUMBER:

100 138

EACH TO HAVE:

2	CONTINUOUS HINGES	224HD	IVE
1	MULLION	KR4954	VON
1	EXIT DEVICE	CD99NL RHR ACT	VON
1	EXIT DEVICE	CD99DT	
1	RIM CYLINDER	1E72	BES
3	MORTISE CYLINDERS	1E74 (FOR CD & KR)	BES
1	ADA OPERATOR	4640 RHR ACT	LCN
2	ACTUATORS	8310-852T X 8310-876	LCN
1	CLOSER	4111 SCUSH X MC	LCN
2	KICK PLATES	8400 10"	IVE
1	FLOOR STOP	FS18S ACT LEAF	IVE
1	THRESHOLD	425	NGP
1	SET SEALS	5020B	NGP
2	DOOR SWEEPS	C627A	NGP
1	MULLION SEAL	5100	NGP

NOTE: COORDINATE WITH ELECTRICAL. PROVIDE 120VAC AT FRAME HEAD. LOCATE ACTUATORS AS DIRECTED BY ARCHITECT.

HW SET: 08

DOOR NUMBER:

007

EACH TO HAVE:

1	CONTINUOUS HINGE	224HD	IVE
1	COMM LOCK	45H7G16H	BES
1	SURFACE CLOSER	4111 SHCUSH MC	LCN
1	KICK PLATE	8400	IVE
1	SET SEALS	5020B	NGP
1	THRESHOLD	896S	NGP
1	SWEEP	C627A	NGP
1	DRIP CAP	16A	NPG

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HW SET: 09

DOOR NUMBER:

101

EACH TO HAVE:

6	HINGES	5BB1	IVE
2	MANUAL FLUSH BOLTS	FB458 X DPS	IVE
1	CORRIDOR LOCK	45H7D16H	SCH
1	CLOSER	4111 CUSH X MC (ACT LEAF)	LCN
1	SET SEALS	5020	NGP

HW SET: 10

DOOR NUMBER:

103 108 111 116 120 125 128 133

EACH TO HAVE:

3	HINGES	5BB1	IVE
1	CLASSROOM LOCK	45H7R16H	SCH
1	FLOOR STOP	FS441	IVE
3	SILENCERS	SR64	IVE

HW SET: 11

DOOR NUMBER:

104 107 112 115 121 124 129 132

EACH TO HAVE:

3	HINGES	5BB1HW	IVE
1	PUSH PLATE	8200 4" X 16"	IVE
1	PULL PLATE	8303-8 4" X 16"	IVE
1	SURFACE CLOSER	4111 CUSH MC	LCN
1	KICK PLATE	8400	IVE
1	SET SEALS	5020B	NGP

HW SET: 12

DOOR NUMBER:

105 106 113 114 122 123 130 131

EACH TO HAVE:

3	HINGES	5BB1HW	IVE
1	PASSAGE SET	45HON16H	BES
1	SURFACE CLOSER	4011 MC	LCN
1	KICK PLATE	8400	IVE
1	MOP PLATE	8400	IVE
1	FLOOR STOP	FS441	IVE
3	SILENCERS	SR64	IVE

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HW SET: 13

DOOR NUMBER:

118

EACH TO HAVE:

2	CONTINUOUS HINGES	224HD	IVE
1	MULLION	KR4954	VON
1	EXIT DEVICE	CD99NL RHR ACT	VON
1	EXIT DEVICE	CD99DT	
1	RIM CYLINDER	1E72	BES
3	MORTISE CYLINDERS	1E74 (FOR CD & KR)	BES
2	CLOSERS	4111 SCUSH X MC	LCN
2	KICK PLATES	8400 10"	IVE
1	THRESHOLD	425	NGP
1	SET SEALS	5020B	NGP
2	DOOR SWEEPS	C627A	NGP
1	MULLION SEAL	5100	NGP

HW SET: 14

DOOR NUMBER:

135

EACH TO HAVE:

3	HINGES	5BB1HW	IVE
1	CLASSROOM LOCK	45H7R16H	BES
1	SURFACE CLOSER	4011 MC	LCN
1	KICK PLATE	8400	IVE
1	FLOOR STOP	FS441	IVE
1	SET SEALS	5020B	NGP

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Alpharetta Elementary Addition and Renovations

08 7100-30

GVSA-27028.00

Door Hardware

IRST-208123

HW SET: 15

DOOR NUMBER:

136 137

EACH TO HAVE:

3	HINGES	5BB1HW	IVE
1	PRIVACY SET	45HOL16H	BES
1	SURFACE CLOSER	4011 MC	LCN
1	KICK PLATE	8400	IVE
1	MOP PLATE	8400	IVE
1	FLOOR STOP	FS441	IVE
1	SET SEALS	5020B	NGP

HW SET: 16

DOOR NUMBER:

139 028

EACH TO HAVE:

3	HINGES	5BB1	IVE
1	STOREROOM LOCK	45H7D16H	BES
1	SURFACE CLOSER	4011 MC	LCN
1	KICK PLATE	8400	IVE
1	FLOOR STOP	FS441	IVE
1	SET SEALS	5020B	NGP

HW SET: 17

DOOR NUMBER:

140

EACH TO HAVE:

1	CONTINUOUS HINGES	224HD	IVE
1	CORRIDOR LOCK	45H7T16H	BES
1	OVERHEAD HOLDER	904H X SNB	GLY
1	THRESHOLD	425HD	NGP
1	SET SEALS	5020B	NGP
2	DOOR SWEEPS	C627A	NGP
1	DRIP CAP	16A	NGP

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Door Hardware

IRST-208123

HW SET: 18

DOOR NUMBER:

212A 212B

EACH TO HAVE:

2	CONTINUOUS HINGES	224HD	IVE
1	MULLION	KR4854	VON
1	ELECTRIC STRIKE	6111 24VDC FSE	VON
1	EXIT DEVICE	CD99NL RHR ACT	VON
1	EXIT DEVICE	CD99DT	
1	RIM CYLINDER	1E72	BES
3	MORTISE CYLINDERS	1E74 (FOR CD & KR)	BES
1	ADA OPERATOR	4640 RHR ACT	LCN
2	ACTUATORS	8310-852T X 8310-876	LCN
1	CLOSER	4111 SCUSH X MC	LCN
2	KICK PLATES	8400 10"	IVE
1	FLOOR STOP	FS18S ACT LEAF	IVE
1	THRESHOLD	425	NGP
1	SET SEALS	5020B	NGP
2	DOOR SWEEPS	C627A	NGP
1	MULLION SEAL	5100	NGP
1	CARD READER	BY OTHERS	
1	POWER SUPPLY	BY OTHERS	

NOTE: COORDINATE WITH ELECTRICAL. PROVIDE 120VAC AT FRAME HEAD. LOCATE ACTUATORS AS DIRECTED BY ARCHITECT.

End of Section

SECTION 09 5100

ACOUSTICAL CEILINGS

PART 1 - GENERAL

1.1 SUMMARY:

- A. Related work specified elsewhere: Gypsum board.

1.2 SUBMITTALS:

- A. Shop drawings; include the following:
1. Layout, including locations of lighting fixtures and grilles.
 2. Insert and hanger spacing and fastening details.
 3. Splicing method for main and cross runners.
 4. Change in level details.
 5. Support requirements for lighting fixtures, grilles and similar items.
- B. Product data: Include product descriptions and installation instructions for each material. Indicate load carrying capacity of suspension system hanger spacings and manufacturer's recommended methods for fixture support.
- C. Samples; submit the following:
1. 1'-0" by 1'-0" samples of each type and color acoustical material.
 2. Samples of each type and color suspension member and accessory.
- D. Certificates: Indicate compliance with specified requirements, including seismic requirements and UL fire-resistive ratings.

1.3 QUALITY ASSURANCE:

- A. Applicable standards; standards as referenced herein:
1. American Iron and Steel Institute (AISI).
 2. ASTM International (ASTM).
 3. Ceiling & Interior Systems Contractors Association (CISCA).
 4. Underwriters Laboratories, Inc. (UL).
- B. Obtain acoustical panels and supporting suspension system through one source from a single manufacturer. Each type of acoustical panel and painted grid shall be from a single production run.
- C. Seismic performance: Comply with code requirements.

1.4 PROJECT/SITE CONDITIONS:

- A. Sequencing and scheduling: Schedule acoustical material installation to minimize need for removal and replacement of acoustical units to accommodate work of other trades.

PART 2 - PRODUCTS

2.1 STEEL SUSPENSION SYSTEMS:

- A. Acceptable manufacturers; subject to compliance with specified requirements:
1. Armstrong World Industries, Inc.
 2. CertainTeed Corp.
 3. Chicago Metallic Corp.
 4. USG Interiors, Inc.
- B. Exposed steel grid system; 15/16" flange face.
1. Structural classification: Meeting ASTM C635-04, Intermediate Duty for interior applications.
 2. Module: 2'-0" by 2'-0".
 3. Main and cross tees:
 - a. Tee material: Hot dip galvanized, cold-rolled steel.
 - b. Cap material: Hot dip galvanized, cold-rolled steel.
 - c. Design: Double web; screw slot.
 - d. Tee size: 15/16" flange face width; 1-1/2" nominal height main tees.
 - 1) 2'-0" long cross tees for exterior applications, 2'-0" or 4'-0" long cross tees for interior applications.
 - 2) Material thicknesses shall be as required to meet specified structural classifications.
 4. Edge molding for square edge panels: Minimum 0.020" thickness galvanized steel, channel or angle shaped with minimum 3/4" flange width, hemmed edge.
 5. Finish on exposed components: Chemically treated for paint adhesion with factory-applied, low-gloss white paint.
- C. Accessories:
1. Hold-down clips: Suspension system manufacturer's standard design compatible with ceiling panels specified and fire rating required.
 2. Hanger wire: Minimum 12 ga., galvanized, soft-annealed, mild steel wire.
 3. Wire ties: 18 ga., galvanized, annealed steel wire.
 4. Hanger clips: Prefabricated metal clamps for fastening to building structure.
 5. Carrying channels: 16 ga. cold-rolled steel, 1-1/2" deep.
 6. Special shapes:
 - a. Acceptable manufacturers; subject to compliance with specified requirements:
 - 1) Fry Reglet Corp.
 - 2) Gordon, Inc.
 - 3) Pittcon Industries.
 - b. Characteristics: Aluminum acoustical moldings, shapes as indicated; white color.

2.2 ACOUSTICAL CEILING PANELS:

- A. Acceptable manufacturers; subject to compliance with specified requirements:
 - 1. Basis of design: Armstrong World Industries, Inc., Cortega.
 - 2. CertainTeed Corp.
 - 3. USG Interiors, Inc.
- B. Characteristics:
 - 1. Size: 2'-0" by 2'-0".
 - 2. Thickness: Minimum 5/8".
 - 3. Edges: Square.
 - 4. Finish: Factory-applied, washable paint.

+ 2.3 SCRUBBABLE CEILING PANELS:

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- A. Acceptable products:
 - 1. Basis of design: Armstrong World Industries, Inc., Clean Room VL Nonperforated, HumiGuard Plus.
 - 2. CertainTeed Corp., Vinylshield C - White CRF.
 - 3. U.S.G. Interiors, Inc., Clean Room ClimaPlus Class 100 Panel, Unperforated.
- B. Characteristics:
 - 1. Size: 2'-0" by 2'-0".
 - 2. Thickness: Minimum 5/8".
 - 3. Edges: Square.
 - 4. Face: Vinyl-faced, scrubbable, white color.
 - 5. Type: USDA accepted, sanitary, fire resistant panels, resistant to damage, moisture, soiling and fumes.
- C. Locations: For use kitchen and food service areas indicated on the drawings.

2.4 ACCESSORIES:

- A. Acoustical sealant:
 - 1. Acoustical sealant for exposed and concealed joints: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834 and effective in reducing airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.
 - 2. Acoustical sealant for concealed joints: Manufacturer's standard nondrying, nonhardening, nonskinning, nonstaining, gunnable, synthetic-rubber sealant recommended for sealing interior concealed joints to reduce airborne sound transmission.
- B. Sound attenuation blankets: 1-1/2" thickness, minimum 2-1/2 lb. density, paperless, semi-rigid, mineral fiber blanket.
- C. T-Grid support clip:
 - 1. Acceptable products:
 - a. Armstrong World Industries, Inc., Beam End Retainer Clip Item 7395.
 - b. Chicago Metallic corp., Perimeter clip 1499.

- c. Erico Products, Inc., Caddy TGE T-Grid support clip.
 - d. USG Industries, Inc., Mac 2.
2. Characteristics: Mechanical clip for attaching acoustical "T" to edge molding without exposed fasteners in grid system.

PART 3 - EXECUTION

3.1 JOB MOCK-UP:

- A. Install complete ceiling of each type specified, in space designated by Architect. Notify Architect when spaces are ready for observation.
- B. Following Architect's acceptance, retain mock-up as a standard of quality for ceiling installation. Accepted mock-up may remain as part of finished work.

3.2 SUSPENSION SYSTEM INSTALLATION:

- A. Install suspension system in accord with manufacturer's product data, ASTM C636-06, ASTM E580-06 and CISCA recommendations, except for more stringent requirements specified herein.
- B. Layout:
 1. Center grid system within areas to avoid panels of unequal widths at opposite walls and panels of less than 1/2 width.
 2. Align grid members straight and perpendicular to walls.
 3. Locate accessories, control joints and expansion joints before installing grid system.
- C. Seismic requirements:
 1. Comply with building code for seismic restraint requirements.
 2. Install suspension systems in accord with ASTM E580-06.
- D. Hangers:
 1. Space hangers for carrying channels or main tees at 4'-0" o. c. maximum. Secure to building structure.
 2. Install additional hangers at ends of each suspension member, within 6" of end of member or wall.
 3. Install additional hangers within 6" of each corner of lighting fixtures, grilles and similar items.
 4. Splay wires no more than 5" in 2'-6" vertical drop.
 5. Where spacing of hangers for main tees exceeds maximum specified spacing due to interference by adjacent construction, indirect-hang tees using carrying channels to maintain maximum hanger spacing.
 6. Wrap wire minimum of three times horizontally, turning ends upwards.
- E. Direct-hung, exposed grid system, 2'-0" by 2'-0" module:
 1. Space main tees at 4'-0" o. c., maximum, perpendicular to structure.

2. Locate cross tees at 2'-0" o. c., perpendicular to main tees.
 3. Space cross tees at 2'-0" o. c., perpendicular to previously installed cross tees, to form 2'-0" by 2'-0" grid module. Connect to cross tees through slots in main tees.
- F. Level and square suspension system components within specified tolerances prior to beginning ceiling material installation.
- G. Install cross tees adjacent to lighting fixtures and grilles on each side not supported by main tees. Support no fixtures on main or cross tees when fixture weight results in dead load exceeding deflection capacity of suspension system.
- H. Where cut tees intersect other tees or edge moldings without mechanical attachment, attach components using T-Grid support clip. At contractor's option tees may be attached directly to partition with tie wire.
- I. Wall moldings:
1. Install wall molding at intersection of suspended ceiling and vertical surfaces.
 2. Miter corners where wall moldings intersect or install corner caps.
 3. Attach to vertical surfaces with mechanical fasteners.
 4. Apply continuous ribbon of acoustical sealant on vertical web.
- J. Where grid system exists in an unrestrained condition, brace back to building structure using hanger wire, main tee or carrying channel braces spaced at 4'-0" o. c., maximum.

3.3 ACOUSTICAL UNIT INSTALLATION:

- A. Install acoustical units in level plane, in straight line courses, within specified tolerances.
- B. Place acoustical materials to bear all around on suspension members.
- C. Pattern shall be symmetrical about centerline of area, unless otherwise indicated. Lay out units having directional pattern in same direction.
- D. Seal joints in acoustical units around pipes, ducts, and ducts and electrical outlets with acoustical sealant.
- E. Where cutting of acoustical units is required, cut so that no cut or damaged edges are visible in finished work.
- F. Hold-down clips:
1. Install acoustical units surrounding recessed troffer lights with hold-down clips to prevent movement or displacement of units.
 2. Install hold-down clips at fire-resistive panels and where required by code.

- G. Lay sound attenuation blankets over ceilings in designated spaces.
- H. Allowable tolerances:
 - 1. Deflection: Suspension system components, hangers and fastening devices supporting lighting fixtures, ceiling grilles and acoustical units shall have maximum deflection of 1/360 of the span when tested in accord with ASTM C635-04.
 - 2. Bow, camber and twist: Not exceeding tolerances established by C635-04.
 - 3. Variation from level in finished ceiling: $\pm 1/8$ " in 12'-0".

3.4 MAINTENANCE MATERIALS:

- A. Furnish extra materials equal to one percent of each type of acoustical material supplied.
- B. Furnish suspension system components in amount sufficient to install extra ceiling units.

3.5 CLEANING:

- A. Clean soiled or discolored unit surfaces after installation.
- B. Touch up scratches, abrasions, voids and other defects in painted metal surfaces.
- C. Remove and replace damaged and stained acoustical units with new units.

End of Section

SECTION 10 2813

TOILET ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY:

- A. Related work specified elsewhere:
 - 1. Concrete unit masonry.
 - 2. Gypsum board.

1.2 DESIGN CRITERIA:

- A. In order to be acceptable, products shall comply with the following criteria:
 - 1. All accessories shall be products of a single manufacturer.
 - 2. Keying: Keyed accessories shall be keyed alike, unless otherwise specified.
 - 3. Operation: Control and operating mechanisms shall be operable with one hand, without tight grasping, pinching, or twisting of wrist, and with a maximum force of 5 lbf.
 - 4. Cabinet construction:
 - a. Material: Entire cabinet shall be constructed of 18-8 S, Type 304 stainless steel, minimum 22 ga., except that doors of flush face cabinets shall be minimum 18 ga.
 - b. Finish: Satin finish, vertical grain stainless steel; matching in color and graining within the same cabinet.
 - c. Unit construction: Seamless or welded; all welds ground smooth prior to finishing on exposed surfaces. Cabinets shall have full, continuous backs and sides. Flush face units shall be seamless construction.
 - d. Hinges: Doors shall be hung on continuous stainless steel piano hinges.
 - e. Stops: Doors shall have spring or cable stops located inside cabinet to limit opening to 120 degrees maximum.
 - f. Bumpers: Doors shall have rubber bumpers to cushion door closing.
 - g. Exposed edges: Hemmed, returned or flanged; sharp edges not allowable.
 - h. Waste receptacle liners: Rigid, leakproof, molded plastic.
 - i. Paper towel dispensers: Adaptable to dispense C-fold, multi-fold or single-fold towels without use of additional towel trays.
 - j. Feminine napkin/tampon vendors: Changeable coin mechanisms and coin slot identification; lockable coin box keyed differently from other accessories.
 - k. Combination towel/waste units: Capable of mounting such that towel dispenser is located at 3'-4" above finish floor, while allowing at least 4" base below unit.

5. Soap dispensers:
 - a. Valves: All-purpose dispensing type; piston and exposed components of Type 302/304 stainless steel or chrome-plated brass.
 - b. Lavatory-mounted dispensers: Capable of being filled from top, without removal of container.
 - c. Lavatory dispenser container: Minimum 32 oz. capacity, rigid polyethylene.

1.3 SUBMITTALS:

- A. Product data: Include catalog cuts and data sheets indicating size, material and finish, complete parts list and installation procedures for each accessory. Where manufacturer's standard products vary with design criteria, indicate compliance with design criteria.

1.4 QUALITY ASSURANCE:

- A. Applicable standards; comply with the following as referenced herein: Americans with Disabilities Act (ADA).

1.5 PROJECT/SITE CONDITIONS:

- A. Protection: Maintain manufacturer's protective covering on accessories until final cleanup of installation.
- B. Coordinate this work with work of other trades into which accessories are to be installed.

1.6 WARRANTY:

- A. Mirrors: Warrant mirrors for five years against silver spoilage.

PART 2 - PRODUCTS

2.1 TOILET ACCESSORIES:

- A. Acceptable manufacturers; subject to compliance with specified design criteria:
 1. A & J Washroom Accessories.
 2. American Specialties, Inc. (ASI).
 3. Bobrick Washroom Equipment, Inc.
 4. Bradley Washfountain Co.
- B. Semi-recessed towel dispenser and waste receptacle (for 4" minimum recess):
 1. A & J #U650.
 2. ASI #0469 with adapter.
 3. Bobrick #B-3944.
 4. Bradley #234.
- C. Recessed feminine napkin/tampon dispenser (for 4" minimum recess):
 1. A & J #U510.
 2. ASI #0468.
 3. Bobrick #3500.
 4. Bradley #4017.

- D. Recessed feminine napkin disposal cabinet (for 4" minimum recess):
1. A & J #U581.
 2. ASI #0473.
 3. Bobrick #B-353.
 4. Bradley #4731-15.

- + E. ~~DELETED Recessed paper towel dispenser (for 3 3/4" minimum recess):~~
- + ~~1. A & J #U2304.~~
- + ~~2. ASI #6452.~~
- + ~~3. Bobrick #B-36203.~~
- + ~~4. Bradley #2447.~~

- F. Recessed waste receptacle (for 4" minimum recess):
1. A & J #U410.
 2. ASI #0458.
 3. Bobrick #B-3644.
 4. Bradley #344.

- G. Double-roll toilet tissue dispenser:
1. A & J #U806-LCD.
 2. ASI #0264-1A.
 3. Bobrick #B-2740.
 4. Bradley #5241-50.

- H. Surface-mounted feminine napkin disposal cabinet:
1. A & J #U582.
 2. ASI #0473A-1.
 3. Bobrick #B-254.
 4. Bradley #4722-15.

- I. Framed mirror units:
1. A & J #U711 Series.
 2. ASI #0620-A Series.
 3. Bobrick #B-165 Series.
 4. Bradley #720 Series.

- J. Surface-mounted soap dispenser:
1. A & J #U124.
 2. ASI #0342.
 3. Bobrick #B-4112.
 4. Bradley #6542.

- + K. ~~DELETED Mop and broom holder (3'-0" length):~~
- + ~~1. A & J #UJ13B.~~
- + ~~2. ASI #8215-4.~~
- + ~~3. Bobrick #B-223 X-36.~~
- + ~~4. Bradley #9954.~~

- L. Grab bars, sizes and configurations as shown on the drawings; 1-1/2" diameter, satin finish, concealed mounting:
1. A & J #UG30 Series.
 2. ASI #3200 Series.
 3. Bobrick #B-6806 Series.
 4. Bradley #812 Series.

- M. Double robe hook:
1. A & J #UX112.
 2. ASI #7345-S.

3. Bobrick #6727.
4. Bradley #9124.

- + N. ~~DELETED Recessed hand dryer, 230 volt, white color,~~
 + ~~automatic operation (for 4" maximum recess):~~
 + ~~1. A & J #U1600 EA 120/230.~~
 + ~~2. ASI #0125.~~
 + ~~3. Bobrick #B-750.~~

- O. Pipe Insulation; premoulded PVC insulating covers for drain and supply lines:
 1. Brocar Products, Inc., Trap Wrap.
 2. Truebro, Inc., Handi Lav-Guard

PART 3 - EXECUTION

3.1 EXAMINATION:

- A. Check opening scheduled to receive recessed or semi-recessed accessories for correct dimensions, depth, plumbness of blocking or frames, and preparation that would affect installation of accessories.

3.2 INSTALLATION:

- A. Install accessories level, plumb and in indicated location. Installation methods shall be as indicated in product data for substrates encountered. Securely attach to blocking or framing members.
- B. Mounting heights: As indicated on drawings and meeting ADA accessibility requirements.
- C. Grab bars:
 1. Secure grab bars to wood by direct attachment to studs or to blocking installed between studs.
 2. Secure grab bars to metal stud partition by direct attachment to steel studs, using 1/4" diameter toggle bolts, or using minimum 12 ga. by 3" wide steel anchor plates, continuous length required for attachment of grab bar flanges.
 - a. Attach anchor plates to studs on grab bar side of wall, using self-tapping sheet metal screws.
 - b. Where grab bar flanges mount on separate walls, anchor plate shall be of length to span between studs at individual flange locations.
 - c. Attach grab bars to anchor plates using stainless steel machine screws.
 3. Attach grab bars to masonry walls using concealed mounting plate, minimum 1/4" diameter through-bolt and minimum 10 ga. steel backup plate.
 4. Attach grab bars to concrete walls using 1/4" diameter stainless steel machine screws and metal expansion shields.
 5. Attach grab bars to toilet partitions using wing tapped steel spacers and stainless steel machine screws.

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- D. Conceal evidence of drilling, cutting and fitting to adjacent finishes.

3.3 ADJUSTING AND CLEANING:

- A. Adjust operating parts of accessories for proper operation.
- B. Clean and polish exposed surfaces prior to Date of Substantial Completion.
- C. Deliver accessory schedule, keys and parts manual as part of project closeout documents.

End of Section

SECTION 32 3113

CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.1 SUBMITTALS:

- A. Submit two copies, minimum, product data from manufacturer, including size and weight of posts and gage of fence fabric.

1.2 PROJECT CONDITIONS:

- A. Provide chain-link fence including excavation, concrete, materials herein specified and any other incidental items of the types and sizes and at the locations shown on the plans.

PART 2 - PRODUCTS

2.1 MATERIALS:

- A. Material for Framework: Steel conforming to the applicable requirements of the latest ASTM Standard Specifications, Serial Designation A 36 for Structural Steel.
- B. End, Corner, Angle and Pull Posts: 2-7/8 inch outside diameter, standard tubular steel weighing not less than 5.79 pounds per linear foot.
- C. Line Posts: 2-1/4 inch structural "H" sections weighing 3.65 pounds per linear foot or 2-3/8 inch outside diameter steel pipe weighing 4.10 pounds per linear foot.
- D. Top and Bottom Rails: 1-5/8 inch outside diameter steel pipe weighing 2.27 pounds per linear foot. Provide with expansion rail couplings spaced at not less than 20-foot intervals.
- E. Gate Posts for Vehicular Gates: 4-inch outside diameter pipe weighing 9.11 pounds per linear foot.
- F. Braces: Provide at all corners and wherever fabric is not continuous, such as at gates or at other openings. Braces are to be of the same material as top rail.
- G. Chain-link Fabric: Copper-bearing base metal No. 9 gage wire with 1.2 oz. per sq. ft. black vinyl coated by hot-dip process after weaving. The fabric is to be woven in a 1 1/4-inch chain-link diamond mesh with a knuckled selvage along the top rail and a twisted and barbed selvage at the bottom. The barbing is to be done by cutting the wire on a bias, creating sharp points.

- H. Provide a 2-inch padlock and chain with each gate. Three keys are to be furnished with each padlock.
- I. Gate Frames: 1.9-inch outside diameter pipe weighing 2.72 pounds per linear foot. Corner fittings are to be of heavy, malleable iron castings or pressed steel. Fabric is to be same as in fence. Each gate frame is to be equipped with 3/8-inch diameter adjustable truss rod. Gates are to be complete with ball-and-socket hinges, catch and stops. Hinges are to provide for swinging the gate open through an arc of not less than 180 degrees. Gates must be suitably braced and reinforced to prevent sagging.
- J. All materials entering into the construction of required fencing are to be heavily galvanized and/or vinyl coated by the hot-dip process.

PART 3 - EXECUTION

3.1 ERECTION:

- A. Set, corner and gate posts in concrete base not less than 18 inches in diameter which extends at least three inches below the bottom of the post. The post is to extend to a depth of at least three feet below the surface of the ground. A brace is to be spaced midway in height of each end, corner and gate post and extended to the first line post. Braces are to be securely fastened to posts by means of malleable iron connections and trussed from line post back to end corner or gate post with a 3/8 inch diameter rod.
- B. Set line posts are to set in concrete bases not less than 12 inches in diameter extending at least three inches below the bottom of the post. The post is to extend to a depth of at least 30 inches below the surface of the ground. Line posts are to be equally spaced along the line of fence at not to exceed ten-foot intervals.
- C. Provide top rail between line posts. Do not erect fabric until concrete has had sufficient time to cure. Stretch chain-link fabric to uniform tightness on the outside of the posts with suitable tools and fasten with No. 6 gage galvanized wire clips securely clinched and fastened by means of adjustable clamps. Fasten fabric to line posts at 14-inch intervals. Fasten fabric to rail at 24-inch intervals by tie wires.
- D. If a bottom rail is not required, a No. 7 coil spring galvanized wire is to be stretched along the bottom of the fence and securely fastened to the posts. Fasten the chain-link fabric shall be fastened to the tension wire at intervals not to exceed two feet.

End of Section