



**REQUEST FOR QUALIFICATION-BASED BIDS
FOR
CITY SCHOOLS OF DECATUR
TALLEY STREET ELEMENTARY SCHOOL – WINDOW SHADES
SYSTEMS**

SUBMISSIONS ARE DUE AT THE ADDRESS SHOWN BELOW NO LATER THAN

THURSDAY, MAY 16, 2019 10:30 A.M. E.S.T.

CITY SCHOOLS OF DECATUR – CENTRAL OFFICE
ATTN: OPERATIONS DEPARTMENT
125 Electric Avenue
DECATUR, GEORGIA 30030

RFQB #19-007

THE OFFEROR IS RESPONSIBLE FOR SUBMITTING A RESPONSE TO THIS REQUEST FOR QUALIFICATION-BASED BIDS (RFQB) TO THE CITY SCHOOLS OF DECATUR ON OR BEFORE THE STATED DATE AND TIME.

ISSUE DATE: April 18, 2019



MEMO

TO: Shade System Firms

FROM: Noel Maloof
Executive Director of Operations – City Schools of Decatur

DATE: April 18, 2019

SUBJECT: **RFQB #19-007 - City Schools of Decatur Window Shades Systems – Talley Street Elementary School.**

It is the desire of CSD to engage the services of a Window Shades Systems Service Firm to deliver and install a complete Shade System for the new Talley Street Elementary School. In order to expedite the process, CSD is going to evaluate firms based on their Qualifications and Bids and select a Vendor or Vendors.

The purposes of this Request are: 1) to provide interested firms with sufficient information to enable them to submit a uniform responsive Qualification-Based Bid (“Bid”) for CSD’s review; 2) to set forth a systematic method of evaluation that will be fair and impartial to all interested Firm’s; and 3) to generate uniform Qualifications for evaluation by CSD. This RFQB is complex and requires your immediate and careful attention.

Qualifications-Bids are to be sealed, marked with the Offeror's name and address and labeled:

RFQB #19-007 - City Schools of Decatur Window Shade Systems – Talley Street Elementary School and delivered to:

City Schools of Decatur
Central Office
125 Electric Avenue
Decatur, Georgia 30030

no later than **Thursday, May 16, 2019, 10:30 A.M. E.S.T.** Submissions received after said date and time will not be considered. Having the wrapper or envelope postmarked by May 16, 2019 does not meet the requirements of this Request for Qualification-Based Bids. Delivering the document to a commercial delivery service is also not sufficient until the offer is actually received at the designated location.

The written requirements contained in this RFQB shall not be changed or superseded except by written addendum from the City Schools of Decatur. The Owner reserves the right to reject any and all proposals deemed to be non-responsive or not responsible. The City Schools of Decatur also reserves the right to reject any and all qualifications, to waive any technicalities, informalities or irregularities and to ultimately award a contract to the firm that is deemed to have presented the best and most advantageous qualifications for the School District, resulting from an evaluation process using criteria set forth in Section III of this qualifications document.

Any inquiries regarding this RFP must be submitted in writing no later than Friday, May 03, 2019 - 12:00 P.M. E.S.T. to: Noel Maloof, Executive Director of Operations, 125 Electric Avenue Decatur, GA 30030, or email: nmaloof@csdecatur.net. Questions will be answered in writing by addendum. Questions received after May 03, 2019 will not receive a response. A list of names of firms providing submissions may be obtained from him via email request after the submittal due date and time stated herein.



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E. FEE SCHEDULE <i>(required submittal)</i>	
F. BID BOND FORM <i>(required submittal)</i>	
If any of the above required submittals are not provided by the Offeror, their Submission will be rejected.	

NOTE: Please examine the contents of the RFQB package and if anything is missing contact Noel Maloof at nmaloof@csdecatur.net



REQUEST FOR QUALIFICATION-BASED BIDS ADVERTISEMENT

1. Competitive sealed submissions will be accepted by the City Schools of Decatur until **Thursday, May 16, 2019, 10:30 A.M. E.S.T.**, at City Schools of Decatur, Central Office, 125 Electric Avenue, Decatur, Georgia 30030, for **RFQB #19-007 - City Schools of Decatur Window Shade Systems – Talley Street Elementary School**

It is the desire of CSD to engage the services of a Window Shades Systems Service Firm to deliver and install a complete Shade System for the new Talley Street Elementary School. In order to expedite the process, CSD is going to evaluate firms based on their Qualifications and Bids and select a Vendor or Vendors.

The purposes of this Request are: 1) to provide interested firms with sufficient information to enable them to submit a uniform responsive Qualification-Based Bid (“Bid”) for CSD’s review; 2) to set forth a systematic method of evaluation that will be fair and impartial to all interested Firm’s; and 3) to generate uniform Qualifications for evaluation by CSD. This RFQB is complex and requires your immediate and careful attention.

GENERAL SCOPE OF SERVICES. The Window Shades Systems Firm is expected to act as an integral part of the Project Team. It is a requirement that they provide a Central Point of Contact. As the Point of Contact they will have necessary decision-making authority and responsibility. They shall provide appropriate staff and resources to meet the objectives and responsibilities as outlined in Sections I & II. It is important to detail/outline the management plan to resource the required scope of work to meet the level of assurance required to insure successful project delivery.

SPECIFIC EQUIPMENT AND SERVICES. (At a Minimum)

- Provide complete WINDOW SHADES SYSTEMS for the Talley Street Elementary School. Refer to Exhibit A in the RFQB for specific details.
2. A list of names of firms providing proposals may be obtained from Noel Maloof, Executive Director of Operations, or via email request to nmaloof@csdecatur.net after the submission due date and time stated herein.
 3. The Owner reserves the right to reject all proposals, to waive any technicalities or informalities and to create a short list of firms or teams who will provide presentations of their proposals based on the qualifications determined in writing to be the most advantageous to the Owner and considering the evaluation factors set forth in the RFQB.
 4. Any inquiries regarding this RFQB must be submitted in writing no later than Friday, May 03, 2019- 12:00 P.M. E.S.T. to: Noel Maloof, Executive Director of Operations, 125 Electric Avenue Decatur, GA 30030, or email: nmaloof@csdecatur.net. Questions will be answered in writing by addendum.



REQUEST FOR QUALIFICATION-BASED BIDS FOR WINDOW SHADES SYSTEMS FOR CITY SCHOOLS OF DECATUR TALLEY STREET ELEMENTARY SCHOOL

Questions received after May 03, 2019 will not receive a response. A list of names of firms providing submissions may be obtained from him via email request after the submittal due date and time stated herein.

5. A copy of the Request for Qualification-Based Bid will be on file and available at the following locations on April 18, 2019:
 - City Schools of Decatur – Facilities & Maintenance Department
2635 Talley Street, Decatur, GA 30030
 - State of Georgia Procurement Registry
 - City Schools of Decatur Web Site <http://www.csdecatur.net>



SECTION I - QUALIFICATION-BASED BIDS OVERVIEW AND PROCEDURES

A. PURPOSE/DESCRIPTION

It is the desire of CSD to engage the services of a Roofing Firm to re-roof the existing Winnona Park Elementary School.

The purposes of this Request are: 1) to provide interested firms with sufficient information to enable them to submit a uniform responsive Qualification-Based Bid ("Bid") for CSD's review; 2) to set forth a systematic method of evaluation that will be fair and impartial to all interested Firm's; and 3) to generate uniform Qualifications for evaluation by CSD. This RFQB is complex and requires your immediate and careful attention.

This will be accomplished by the following **process**;

- 1) **First**, Qualification submissions received from interested Firms will be evaluated against the Required Criteria listed within this RFQB. Refer to Section II – Qualifications – A for details.

--NOTE: This is a Mandatory requirement for that Firm to be deemed Qualified and their Bid accepted for the project.

- 2) **Second**, Firm's Bids deemed qualified will be evaluated on a Competitive Bid Process.

It is intended that CSD will enter into an Agreement, on the form provided by CSD, with a qualified Firm.

Work Schedule:

- **June 17 – July 14, 2019**

C. QUALIFICATIONS OF FIRM AND STAFF

1. Firm

- Refer to **Section II A Qualifications Criteria**
- Representative project experience, minimum of 3 similar projects

2. Insurance

Provide a Certificate of Insurance naming Property Owner as Certificate Holder and Additional Insured with coverage and amounts to include:

- (a) **General Liability Insurance**, with a combined single limit of not less than \$1,000,000 per occurrence and \$2,000,000 annual aggregate, including a per-project endorsement.
- (b) **Automobile Liability Insurance**, with a combined single limit of not less than \$1,000,000 for each person and not less than \$1,000,000 for each accident.
- (c) **Worker's Compensation Insurance** in accordance with statutory requirements and Employer's Liability Insurance with limits of not less than \$500,000 for each occurrence.



3. Bid / Performance Bond

Provide a Bid Bond in accordance with the language identified within the Bid Bond Form. Refer to **Attachment F** for details. If this Qualification-Based Bid shall be accepted by CSD and the undersigned shall fail to execute a satisfactory contract in the form of said proposed Contract, give satisfactory Performance and Payment Bonds, or furnish satisfactory proof of the insurance required, as stated in the Instructions to Bidders within ten (10) days from the Notice of Award of the Contract, then CSD may at its option, determine that the undersigned abandoned the Contract and thereupon this Qualification-Based Bid shall be null and void, and the sum stipulated in the attached Bid Bond.

D. INFORMATION TO OFFERORS

1. RFQB TIMETABLE:

The anticipated schedule for the RFQB and contract approval is as follows:

RFQB available	Thursday, April 18, 2019
Deadline for submission of questions	Friday, May 03, 2019 12:00 P.M. E.S.T.
Deadline for receipt of Submissions	THURSDAY, MAY 16, 2019, 10:30 A.M. E.S.T.
Submission Evaluations	May 17-20, 2019
Contract Award	June 16, 2019

2. QUALIFICATION-BID SUBMISSION:

One original (1), Three (3) copies, and (1) additional copy in electronic format on a CD-ROM disk of the complete signed Submission package must be received by **THURSDAY, MAY 16, 2019, 10:30 A.M. E.S.T.** Submissions must be submitted in a sealed envelope or container stating on the outside, the Offeror's name, address, telephone number, the RFQB number and title **RFQB #19-007 - City Schools of Decatur Window Shades Systems – Talley Street Elementary School** to:

**City Schools of Decatur – Central Office
ATTN: Operations Department
125 Electric Avenue, Decatur, Georgia 30030**

Hand delivered copies may be delivered to the above address **ONLY** between the hours of 8:00 a.m. and 4:00 p.m. ET, Monday through Friday, excluding holidays observed by the Owner. Offerors are responsible for informing any commercial delivery service, if used, of all delivery requirements and for ensuring **the required address information appears on the outer wrapper** or envelope used by such service. Submissions received after said date and time will not be considered. Having the wrapper or envelope postmarked by May 16, 2019 does not meet the requirements of this Request for Proposals. Delivering the document to a commercial delivery service is also not sufficient until the qualifications are actually received at the designated location.

By submission of a proposal, the offeror agrees to honor the terms of its proposal for a minimum of (60) days from the proposal due date.



3. RFQB QUESTIONS AND REQUESTS FOR INFORMATION:

Any inquiries regarding this RFP must be submitted in writing no later than Friday, May 03, 2019-12:00 P.M. E.S.T. to: Noel Maloof, Executive Director of Operations, 125 Electric Avenue Decatur, GA 30030, or email: nmaloof@csdecatur.net. Questions will be answered in writing by addendum. Questions received after May 03, 2019 will not receive a response.

4. ADDITIONAL INFORMATION/ADDENDA

CSD will issue responses to inquiries and any other corrections or amendments it deems necessary in written addenda issued prior to the SUBMISSION DUE DATE. Offerors should not rely on any representations, statements or explanations other than those made in this RFQB including the Attachments or in any addendum to this RFQB.

Where there appears to be a conflict between the RFQB and any addenda issued, the last addendum issued will prevail.

5. LATE PROPOSALS, LATE MODIFICATIONS AND LATE WITHDRAWALS

Submissions received after the SUBMISSION DUE DATE and time will not be considered. Modifications received after the SUBMISSION DUE DATE will not be considered. No responsibility shall apply to the City Schools of Decatur for the premature opening of a Submission Package not properly addressed and identified, and/or delivered to the proper designation.

6. REJECTION OF SUBMISSIONS

CSD may reject any or all Submission packages submitted and reserves the right to waive, and/or not be responsible for, any irregularities or informalities in any Submission packages submitted or in the Submissions procedure.

Submissions received after said time or at any place other than the time and place as stated in the notice will not be considered.

7. NON-COLLUSION AFFIDAVIT

By submitting Submissions, the Offeror represents and warrants he or she has not directly or indirectly prevented or attempted to prevent competition by any means, has not prevented or endeavored to prevent anyone from submitting a response to this RFQB by any means and has not caused or induced another to withdraw a submission for the work. Prior to commencing the work, the successful Offeror shall be required to make an oath in writing to this affect.

By submitting Submissions, the Offeror represents and warrants no official, employee or agent of Owner or Authority has been offered, has accepted, or has been contracted to accept, either directly or indirectly, any part of the pay or profit arising out of the contract(s) that may result from this RFQB.

8. COST INCURRED BY OFFERORS

All expenses involved with the preparation of Submissions, or any work performed in connection therewith are the responsibility of the Offeror(s).



9. **MINORITY BUSINESS POLICY STATEMENT**

The Board of Education of the City Schools of Decatur does not discriminate on the basis of race, color, religion, sex, national origin, disability, age, marital status, sexual orientation, or gender identity in its employment practices, programs, activities, or student placement.

The City Schools of Decatur encourages Minority and Women Businesses to compete in the RFQB process and encourages all businesses to provide for the participation of MBE/WBE businesses through partnerships, subcontracts and other contractual opportunities.

10. **PROJECT ORGANIZATION**

The Board of Education of the City of Decatur is the governing body of CSD and has authorized the Superintendent of CSD to administer this project.

11. **CONTACT WITH CSD STAFF**

Except for the submission of written questions directed to Noel Maloof, as previously set forth in this RFQB, on or after April 18, 2019, any contact made by an offeror with CSD Staff will result in immediate disqualification of said entity. Contact is only permitted after June 16, 2019.

12. **RFQB DOCUMENTS**

The RFQB documents consist of the following Attachments:

- A. **Talley Street Elementary School Window Shades Systems Scope of Work**
- B. **Acknowledgement of Addendum Form *(required submittal)***
- C. **Reference Survey Forms *(required submittal)***
- D. **Vendor Affidavit O.C.G.A. §13-10-91 *(required submittal)***
- E. **FEE SCHEDULE *(required submittal)***
- F. **BID BOND FORM *(required submittal)***

If any of the above required submittals are not provided by the Offeror, their Submission will be rejected.



SECTION II - SUBMISSION REQUIREMENTS

All Submissions received will become a part of the official contract file and may be subject to disclosure.

CSD is a governmental entity that is subject to the Georgia Open Records Act ("ORA"). After contract award, documents submitted to CSD in the bidding process are presumed to be subject to the ORA; however, documents that an offeror contends contains specific trade secrets may be marked as trade secrets. An offeror is required to submit and attach to the specific trade secret record an affidavit affirmatively declaring the specific information in the records that constitutes a trade secret, as defined by Georgia law. If the offeror attaches such an affidavit and if inspection or copies are requested under the ORA, CSD will contact offeror to advise offeror that said documents have been requested and will be produced if CSD determines they do not constitute trade secrets. Offeror shall have the amount of time stated in the notice to seek legal remedy preventing the disclosure of the documents. If CSD has not received a valid judicial order or decree preventing the disclosure of the documents, they will be disclosed in accordance with the time requirements contained in the ORA.

A. QUALIFICATIONS CRITERIA:

The Firm for this project shall meet the following minimum Qualifications:

NOTE: If the Firm has multiple office locations please identify which location will be responsible for this project. Responses to Requirements 2 and 3 must be projects completed by the branch office proposed for this project; projects completed by the home or other branch offices will not be accepted.

1. The Firm shall have been in business for a minimum of **five (5) years** and shall not have been declared in default on any contract within that time. If the Firm chooses to joint venture then said joint venture team must have previously completed *Three (3)* relevant projects together, of similar nature, scope, schedule, and size as indicated in this RFQB.
2. The Firm shall have completed at least **Three (3)** projects that meets the following minimum characteristics in the last five years. The minimum characteristics are:
 - a. **Successful completion of Procurement and installation of Window Shades Systems.**
3. The Firm shall demonstrate that their Surety underwriting bonds for the project is included on the current U.S. Treasury listing and shall have an A.M. Best rating of A- or better and shall be licensed to do business in the State of Georgia. This, along with the fact that the Surety plans on providing necessary Bid, Performance and Payment Bonding if the Firm chooses to bid the project, shall be provided in a Letter on their Letterhead in this Qualifications Package.
4. The Firm shall have demonstrated capabilities to manage a schedule and complete projects within agreed upon Schedules and of High Quality. **Firm to utilize Reference Survey Forms/Client Letters as illustrated in Section B.6 below to demonstrate these capabilities.**



B. QUALIFICATION-BASED BID SUBMISSION REQUIREMENTS:

1. FORMAT

Submissions shall not exceed Twenty-Five (25) typed pages not including Tabs and Dividers. All Submissions shall include the information indicated below **and in the following order:**

1. Cover Letter: A brief cover letter of introduction and interest.

- Explain experience in working with a School Districts.
- Explain experience procuring and installing Window Shades Systems, within budget, and with high quality of standards.
- Provide examples indicating your ability to be flexible and fluid when it comes to changes in your delivery and installation processes.

2. Firm Description and information:

- Basic company information
- Company name
- Address & Zip code
- E-mail address & Name of primary contact
- Telephone number
- Fax number
- Number of years in business
- DUNN and BRADSTREET Number if applicable
- Form of Ownership, including state of residency or incorporation for each member of the Team, joint venture, or other structure? For joint venture or other structure, succinctly describe the history and growth of each firm or team member and experience delivering similar projects as this project.

3. Understanding of the Project: Based on the understanding of the Requested Scope of Work the vendor will provide:

- a. **Management Plan to include; Delivery, Installation Checklist and Schedule.** Submit Management Plan indicating procedures utilized in delivery, installation and oversight of said services to ensure all requirements are met and achieved.
- b. **Team Interface.** Describe how your designated POC / Team) will interface with and support the owner and their individual facility members.

4. Firm Current Legal Status:

- Regarding litigation with Clients', sub-consultants, and vendors:
 - List any active or pending litigation any member of the Firm or team has against any Client, sub-consultants and vendors and explain.
 - Other than that, just listed, has any member of the proposed Firm or team been involved in any relevant litigation in the past five years? Explain.
 - Has any member of the proposed Firm or team ever failed to complete any work awarded to it or has it been removed from any project awarded to the firm? Explain.



- Based on the responses provided, CSD reserves the right after considering such information to find any applicant non-responsible and disqualified.
5. **Project Team:** Provide Bios of key personnel proposed for the project, including designations of the point of contact responsible for all communications with the Owner.
 - **Project Manager/Point of Contact** should have 5 plus Years' experience and demonstrate capability to oversee Project's Schedule, Budget, Quality Assurance, efforts. Demonstrate their capability to oversee your team assigned to perform specific tasks the project requires.
 6. **Reference Projects:** Examples of no more than Three (3) "reference clients" which represent the team's approach to similar solutions for projects of similar scale and complexity, and the information on these projects must indicate the contributions of proposed key personnel with the "referenced clients" cited in the submittal. We prefer that the reference projects were with clients with similar projects.
 7. **Acknowledgement of Addendum Form.** Refer to **Attachment B.**
 8. **References:** Provide Three (3) reference survey forms. Refer to **Attachment C** for the required format.
 9. **Financial Information:** Provide the Offeror's audited Financial Report from either your Financial Institution or CPA.
 10. **Vendor Affidavit.** O.C.G.A. §13-10-91. Refer to **Attachment D.** Must be executed and submitted with the Offeror's proposal.
 11. **FEE Schedule:** Refer to **Attachment E.**
 12. **Bid Bond Form:** Refer to **Attachment F.**



SECTION III – ATTACHMENTS

- A. Talley Street Elementary School Window Shades Systems Scope of Work
- B. Acknowledgement of Addendum Form *(required submittal)*
- C. Reference Survey Forms *(required submittal)*
- D. Vendor Affidavit O.C.G.A. §13-10-91 *(required submittal)*
- E. FEE SCHEDULE *(required submittal)*
- F. BID BOND FORM *(required submittal)*

If any of the above required submittals are not provided by the Offeror, their Submission will be rejected.



ATTACHMENT A

Scope of Work

RFQB #19-007 - City Schools of Decatur Window Shades Systems – Talley Street Elementary School

VENDOR RESPONSIBILITY AND REQUIREMENTS

A. General Applicability of Codes and Regulations, Guidelines and Standards: Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, all applicable codes, regulations, guidelines and standards have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound herewith.

B. Vendor Responsibility: The Vendor shall assume full responsibility and liability for the compliance with all applicable federal, state, and local regulations pertaining to work practices, protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Vendor shall hold the Owner and Designer(s) of this specification harmless for failure to comply with any applicable work, packaging, salvaging, delivering, safety, health or other regulation on the part of himself, his employees.

C. Qualifications for Performance of Work:

1. Vendor engaged to perform the work of this Section shall:

- a. Be appropriately licensed or registered with governmental entities.
- b. Purchase and install said equipment and systems.
- c. Coordinate installation schedule with our Construction Management Firm building the project.
- d. Set up and Train the CSD Staff on the usage and management of said equipment.

D. Reference Standards:

1. The Vendor acknowledges, by the executing of the contract, awareness and familiarity with the contents and requirements of the following regulations, codes, and standards, and assumes responsibility for the performance of the work in strict compliance therewith as well as with any other applicable federal, state or local law, rule or regulation, and, for every instance of failure, to comply therewith.

2. The current issue of each document shall govern. Where conflict among requirements or with the contract documents exists, the more stringent requirements shall apply.

a. All state, county, and city codes and ordinances as applicable. Make available for review at the site one copy of EPA, OSHA, and applicable state, county, and city regulations governing the work.

Refer to attached Scope of Work Documents



ATTACHMENT B

Acknowledgement of Addendum Form

RFQB #19-007 - City Schools of Decatur Window Shades Systems – Talley Street Elementary School

The Offeror has examined and carefully studied the Specifications and the following Addenda, receipt of all of which is hereby acknowledged:

Addendum	_____	date	_____	Acknowledgement	_____
					<i>Initial</i>
Addendum	_____	date	_____	Acknowledgement	_____
					<i>Initial</i>
Addendum	_____	date	_____	Acknowledgement	_____
					<i>Initial</i>
Addendum	_____	date	_____	Acknowledgement	_____
					<i>Initial</i>

Offerors must acknowledge any issued addenda. Submittals which fail to acknowledge the offeror's receipt of any addendum will result in the rejection of the submittal if the addendum contained information which substantively changes the Owner's requirements.



ATTACHMENT C Reference Survey Form

RFQB #19-007 - City Schools of Decatur Window Shades Systems – Talley Street Elementary School

Offer: _____

Project Name: _____ Project Completion Date: _____

Offerors scope included: _____ Installation Services

Please rate the Offer's performance from 1-5 on the following issues by circling the appropriate number where 1 indicates that you least agree with the statement and 5 indicates that you most agree with the statement.

	<u>Disagree</u>					<u>Agree</u>
Completed work on time:	1	2	3	4	5	NA
Completed work within budget:	1	2	3	4	5	NA
Provided timely and accurate information:	1	2	3	4	5	NA
Worked well with Owner's staff or Representative:	1	2	3	4	5	NA
Exercised project safety:	1	2	3	4	5	NA
Provided quality service, workmanship, and reports:	1	2	3	4	5	NA
Would use firm again:	1	2	3	4	5	NA

Completed by: Name: _____

Entity: _____

Address: _____

Telephone: _____

Fax: _____

Signature: _____

Date: _____

Thank you for your assistance.



ATTACHMENT D

RFQB #19-007 - City Schools of Decatur Window Shades Systems – Talley Street Elementary School

Vendor Security and Immigration Compliance Affidavit

By executing this affidavit, the undersigned vendor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm, or corporation which is engaged in the physical performance of services on behalf of the Board of Education of the City of Decatur has registered with and uses the federal work authorization program known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned vendor will continue to use the federal work authorization program throughout the contract period and the undersigned vendor will contract for the physical performance of services in satisfaction of such contract only with sub vendors who present an affidavit to the vendor with the information required by O.C.G.A. § 13-10-91(b). Vendor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Date of Vendor

Name of Project

Name of Public Employer

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

Signature of Authorized Officer or Agent

Printed name and Title of Authorized Officer or Agent

Executed on the ____ day of _____, 20__ in _____(city), Georgia.

Sworn to and Subscribed Before Me

This ____ day of 20____

Notary Public

My Commission Expires: _____



ATTACHMENT E FEE SCHEDULE

RFQB #19-007 - City Schools of Decatur Window Shades Systems – Talley Street Elementary School

- 1. Security Shades Material Cost:** \$ _____
- 2. Privacy/Sun Shades Material Costs:** \$ _____
- 3. Motorized Black-out Shades Material Costs:** \$ _____
- 4. Installation/Project Management:** \$ _____

- TOTAL SHADE SYSTEMS BID:** \$ _____



ATTACHMENT F BID BOND FORM

RFQB #19-007 - City Schools of Decatur Window Shades Systems – Talley Street Elementary School

Attached hereto is Bid Bond made by , _____ a
surety company listed by the U.S. Treasury listing and shall have an A.M. Best rating of A- or better and
shall be licensed to do business in the State of Georgia., payable to City Schools of Decatur (or an
official bank check), in the amount of ten percent (10%) of the above Bid, to-wit:
\$ _____.

If this Bid shall be accepted by City Schools of Decatur and the undersigned shall fail to execute a
satisfactory contract in the form of said proposed Contract, give satisfactory Performance and Payment
Bonds, or furnish satisfactory proof of the insurance required, as stated in the Instructions to Bidders
within ten (10) days from the Notice of Award of the Contract, then the City Schools of Decatur may at
its option, determine that the undersigned abandoned the Contract and thereupon this Bid shall be
null and void, and the sum stipulated in the attached Bid Bond (or an official bank check) shall be
forfeited to the City Schools of Decatur as liquidated damages.

Bidder declares his intent to subcontract the portion of the Work as below stated. Bidder understands
and agrees that the use of any Subcontractor not listed below shall be strictly prohibited without prior
written approval from the City Schools of Decatur. (List names of all subcontractors and the work to be
provided by the subcontractor on the lines provided below.)

Bidder further declares that the full names and residence addresses of all persons and parties
interested in the foregoing Bid as principals are as follows:

Signed, sealed, and dated this day of _____, 20__.

By: _____ (SEAL)
Signature

Print Name of Signer

Title of Signer

Name of Business Entity Submitting Bid



BID BOND FORM, CONT'D

Bidder's Street Address

Bidder's City, State and Zip Code

Bidder's Phone Number

Bidder's Fax Number

Bidder's E-Mail Address

KNOW ALL MEN BY THESE PRESENTS, that we, _____

(hereinafter called the Principal) and (hereinafter called the Surety), a corporation chartered and existing under the laws of the State of with its principal offices in the City of _____ and listed in the Federal Register and licensed to write surety bonds in the State of Georgia, are held and firmly bound unto City Schools of Decatur, in the full and just sum of _____ Dollars (\$ _____) good and lawful money of the United States of America, to be paid upon demand of City Schools of Decatur, to which payment well and truly to be made we bind ourselves, our heirs, executors, administrators, and assigns, jointly and severally and firmly by these presents.

WHEREAS, the Principal is about to submit, or has submitted to the City Schools of Decatur, a Qualification-Based Bid for RFQB 19-007 Window Shades Systems for Talley Street Elementary School.

WHEREAS, the Principal desires to file this Bond in accordance with law to accompany this Bid.

NOW, THEREFORE, the conditions of this obligation are such that if the Bid be accepted within sixty (60) days of the Bid opening, the Principal shall execute a Contract in accordance with the Bid and upon the terms, conditions, and prices set forth therein, and in the form and manner required by the City Schools of Decatur, and within ten (10) days from the date of Notice of Award of the Contract, execute a sufficient and satisfactory Performance Bond and Payment Bond payable to the City Schools of Decatur, each in an amount of one hundred percent (100%) of the total Contract Price, in form and with security satisfactory to the City Schools of Decatur and furnish satisfactory proof of the insurance required, then this obligation to be void; otherwise, to be and remain in full force and virtue in law; and the Surety shall, upon failure of the Principal to comply with any or all of the foregoing requirements within the time specified above, immediately pay to the aforesaid City Schools of Decatur, upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

BID BOND FORM, CONT'D



IN TESTIMONY THEREOF, the Principal and Surety have caused these presents to be duly signed and sealed this day of _____, 20____.

PRINCIPAL

By: _____(SEAL)

Signature of Principal

Print Name and Title of Authorized Signer

Print Name of Principal Business

ATTEST: _____

Corporate Secretary

SURETY By: _____(SEAL)

Signature of Surety (by Power of Attorney)

Print Name and Title of Authorized Signer

Print Name of Surety Business

WITNESS:

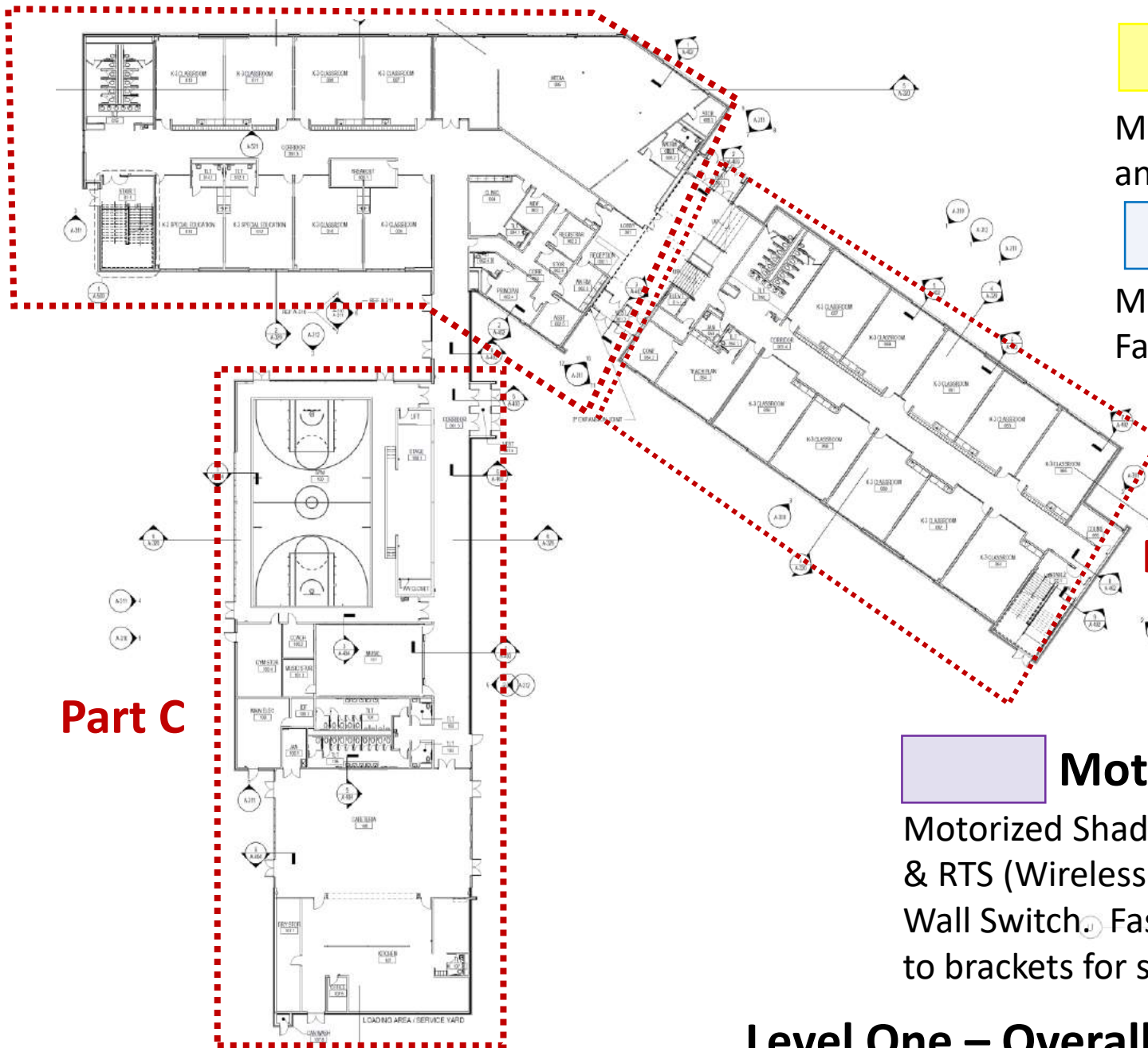
[Attach Original Power of Attorney]

ATTACHMENT A – SCOPE OF WORK - DRAWINGS & SPECIFICATIONS



Talley Street Elementary School – City Schools of Decatur

Part A



Security Shades

Manual Shades with Blackout Fabric and Fascia at Interior Windows

Privacy/Sun Shades

Manual Roller Shades with 1% Open Fabric (3% or 5%) and Fascia

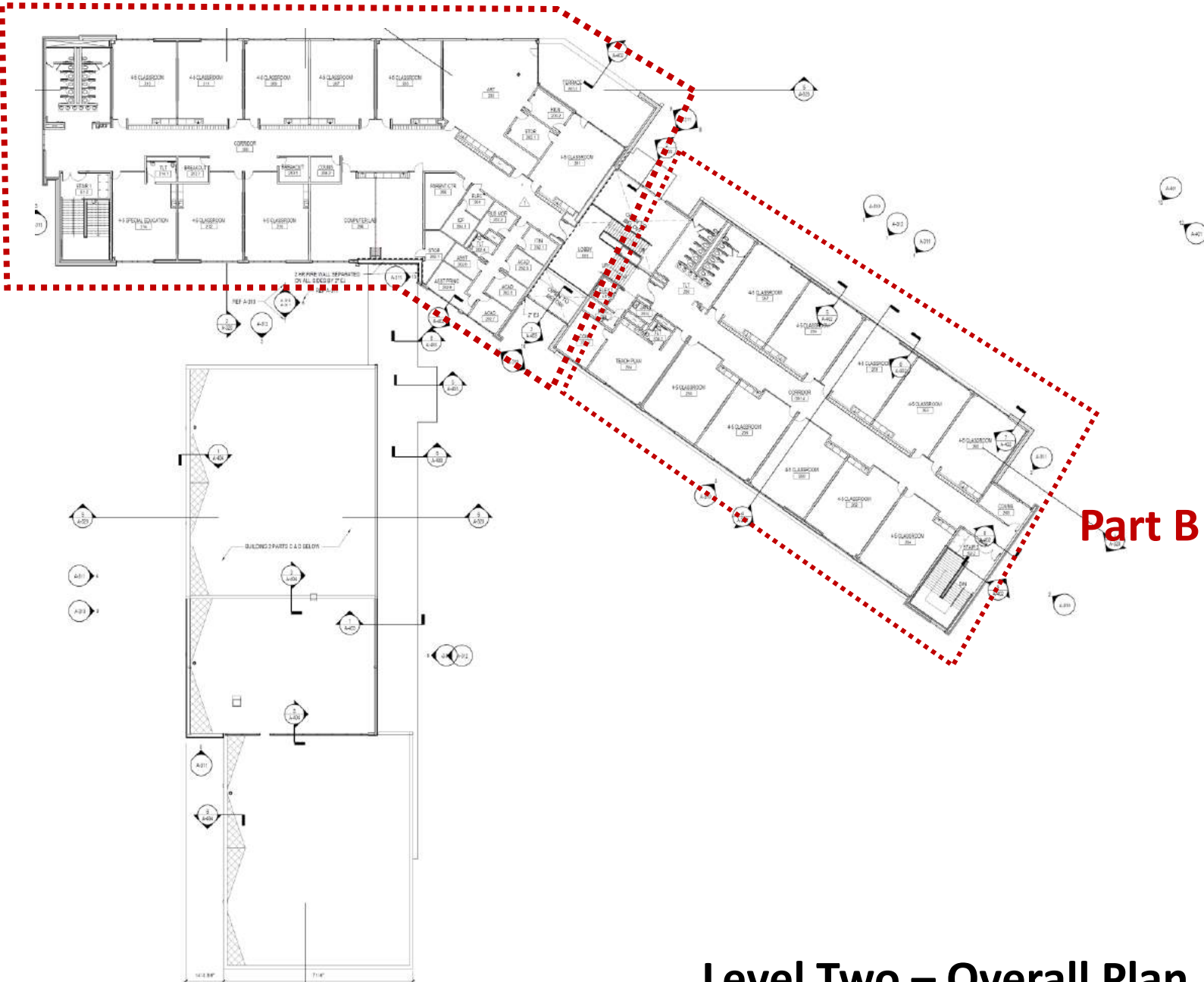
Part B

Part C

Motorized Black-out Shades

Motorized Shades with Blackout Fabric, Fascia & RTS (Wireless Control) Motors and Locking Wall Switch. Fascia must be secular attached to brackets for safety

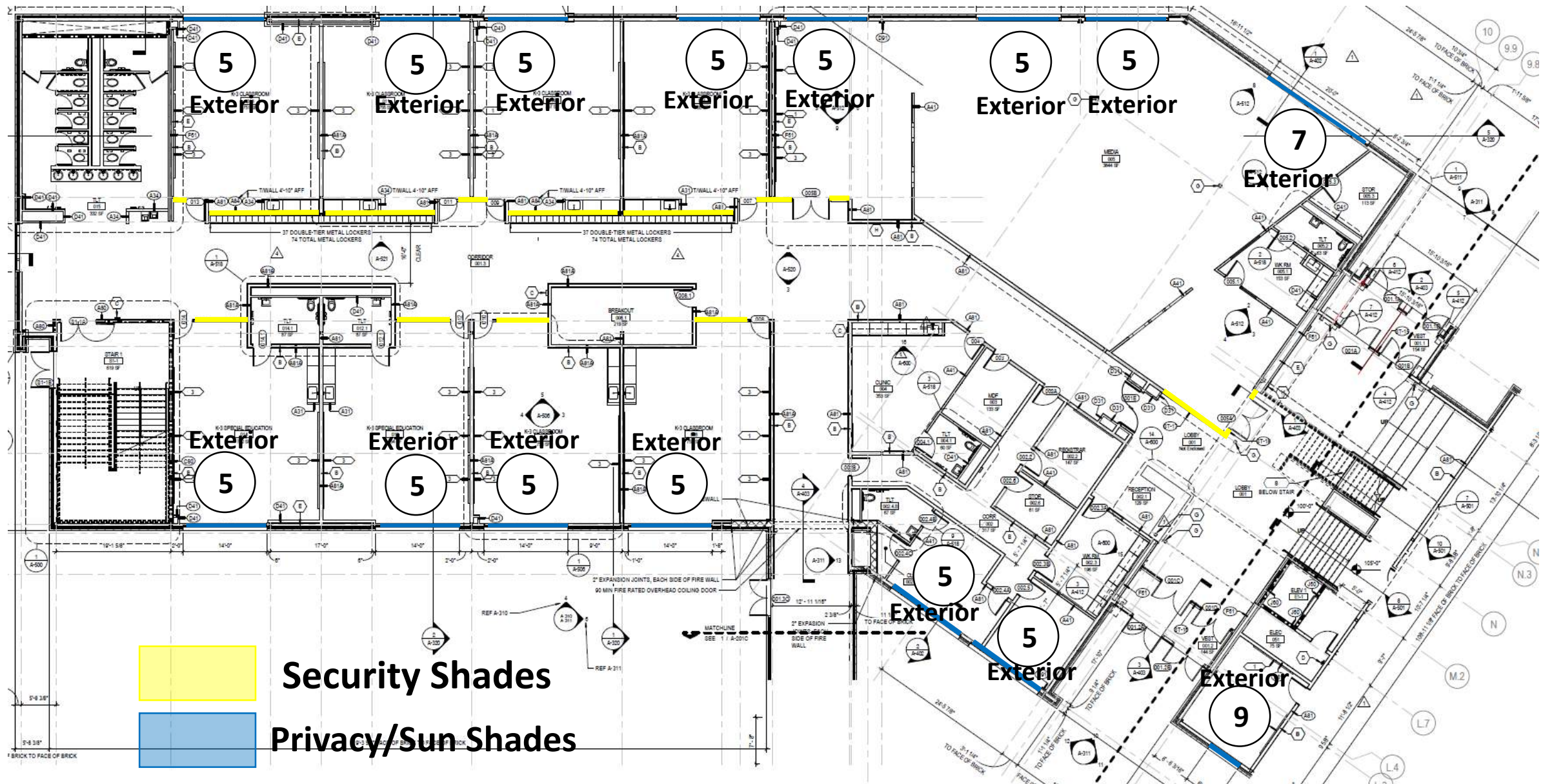
Part A

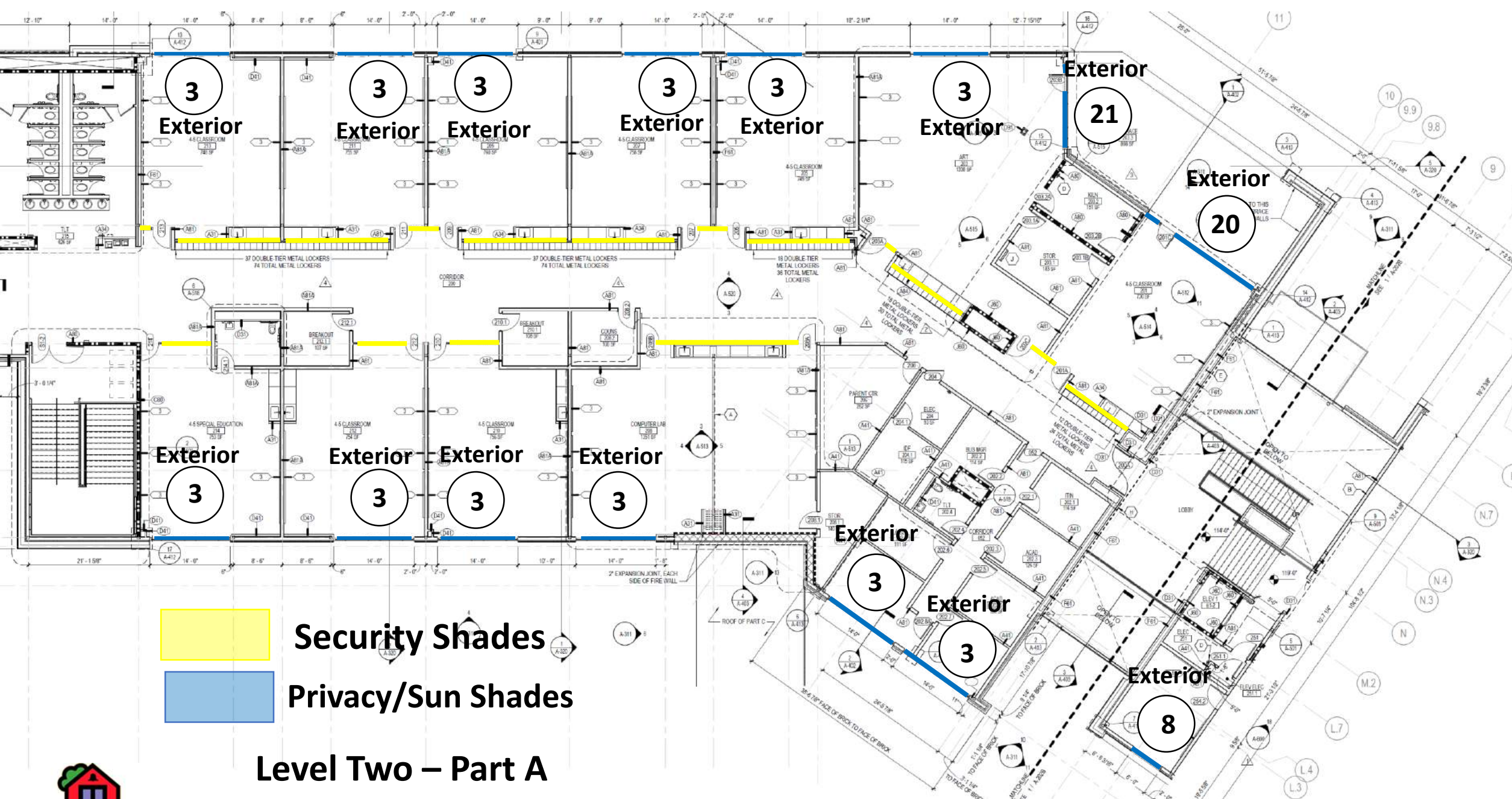


Part B

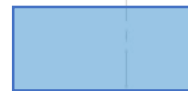


Level Two – Overall Plan
Talley Street Elementary School – City Schools of Decatur





Security Shades

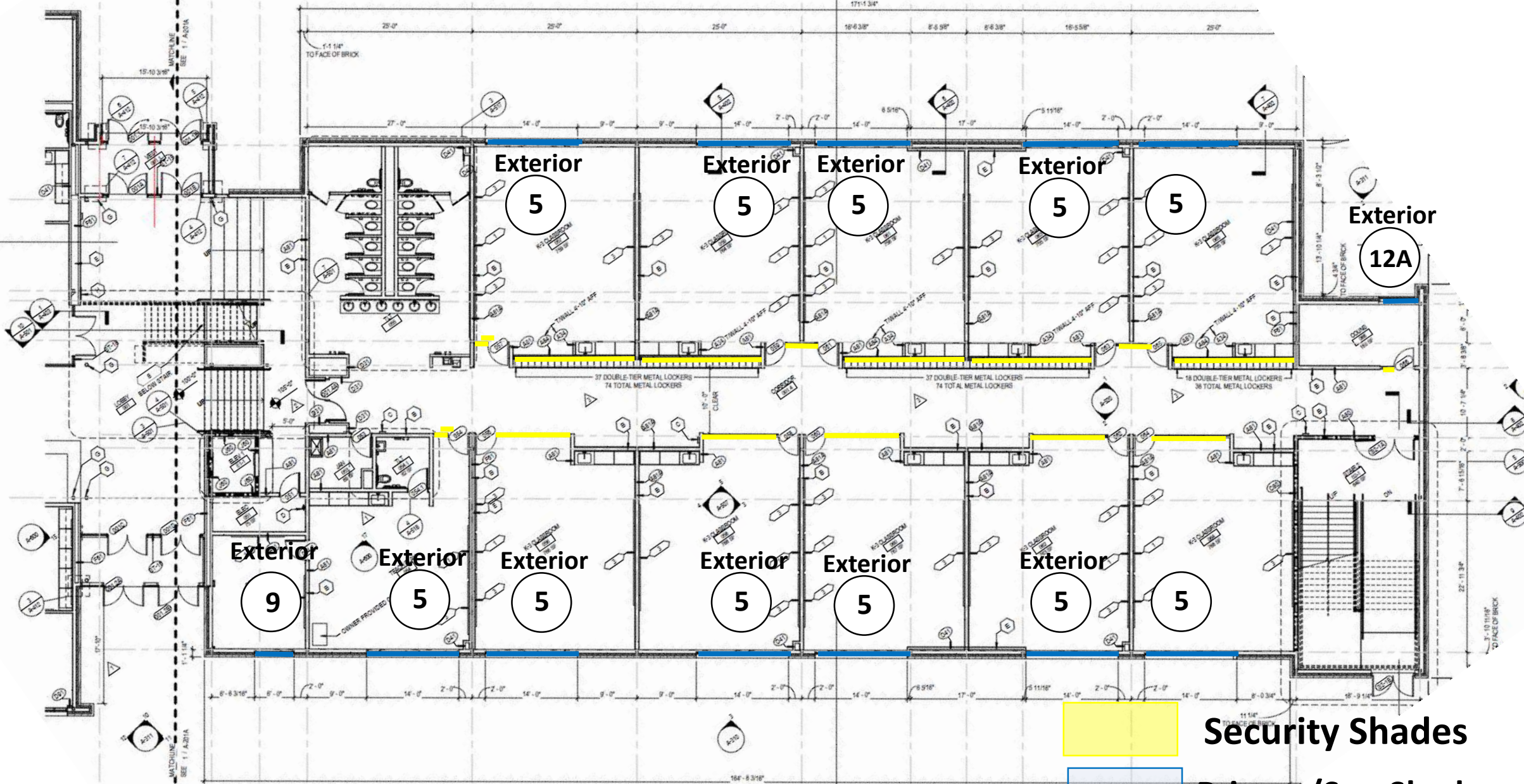


Privacy/Sun Shades

Level Two – Part A

Talley Street Elementary School – City Schools of Decatur



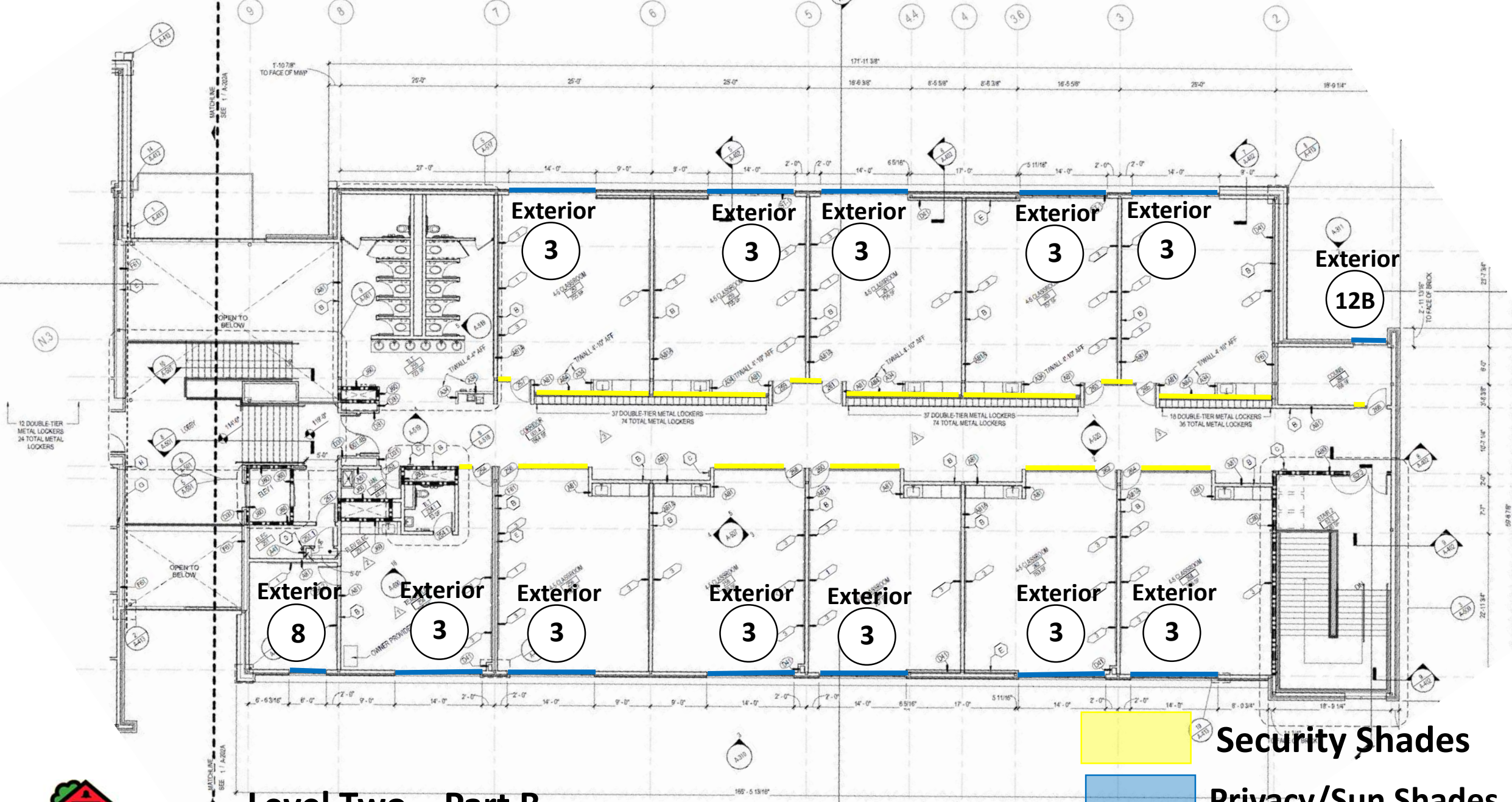


Security Shades

Privacy/Sun Shades

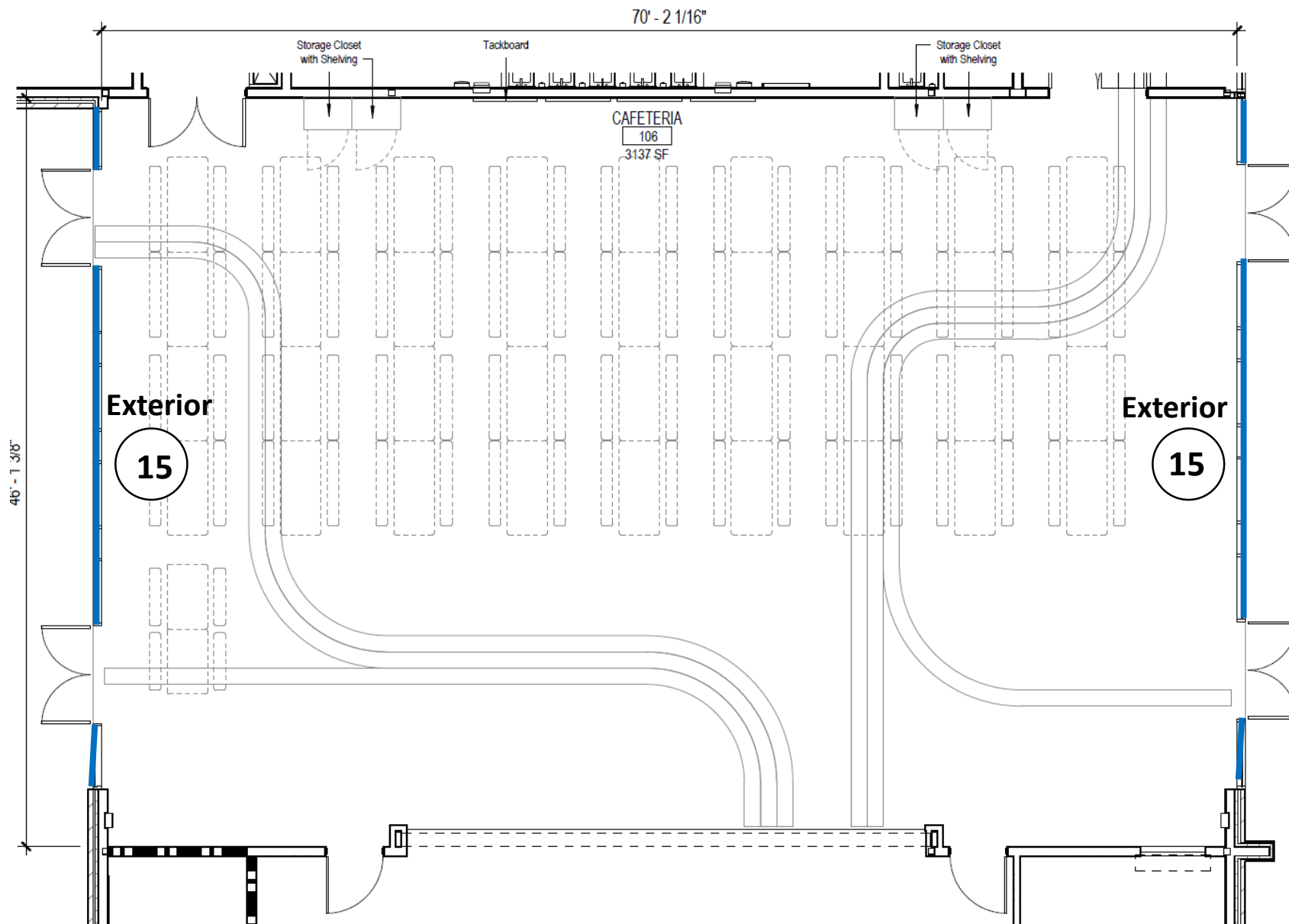


Level One – Part B Talley Street Elementary School – City Schools of Decatur



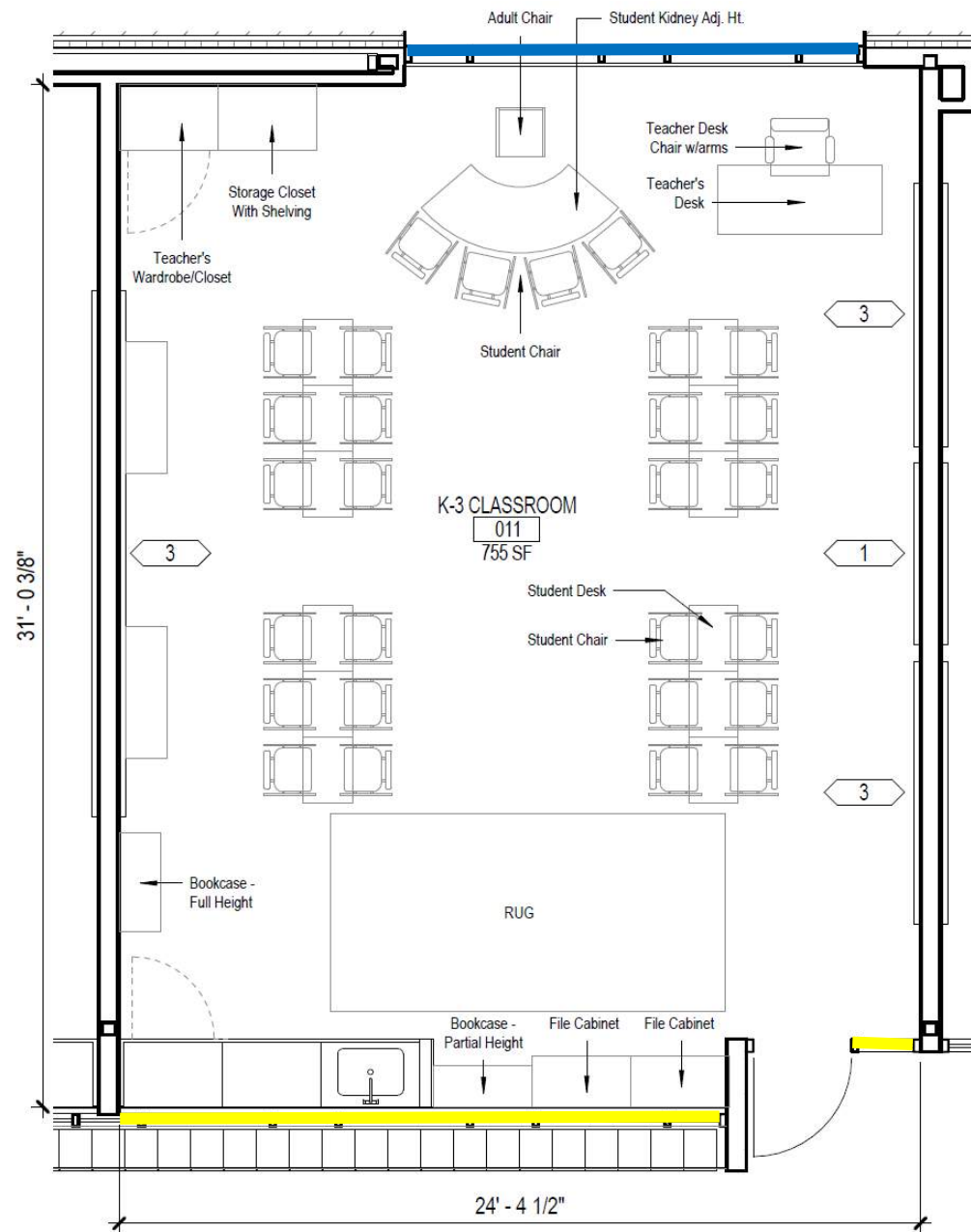
Level Two – Part B
Talley Street Elementary School – City Schools of Decatur



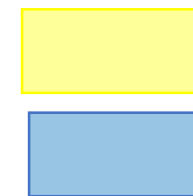


Talley Street Elementary School – City Schools of Decatur

Level One – Part C - Cafeteria

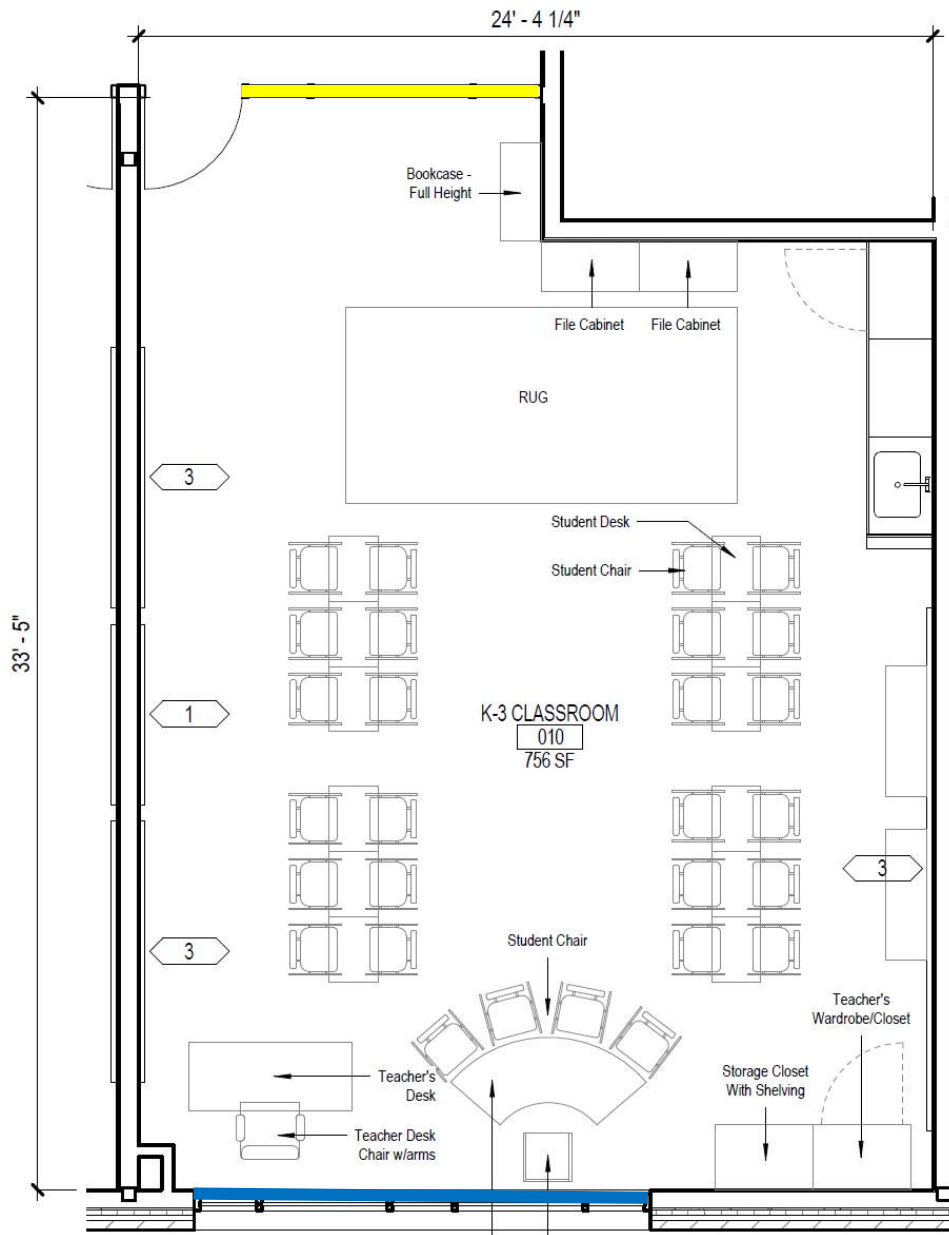


TYPICAL NORTH CLASSROOM

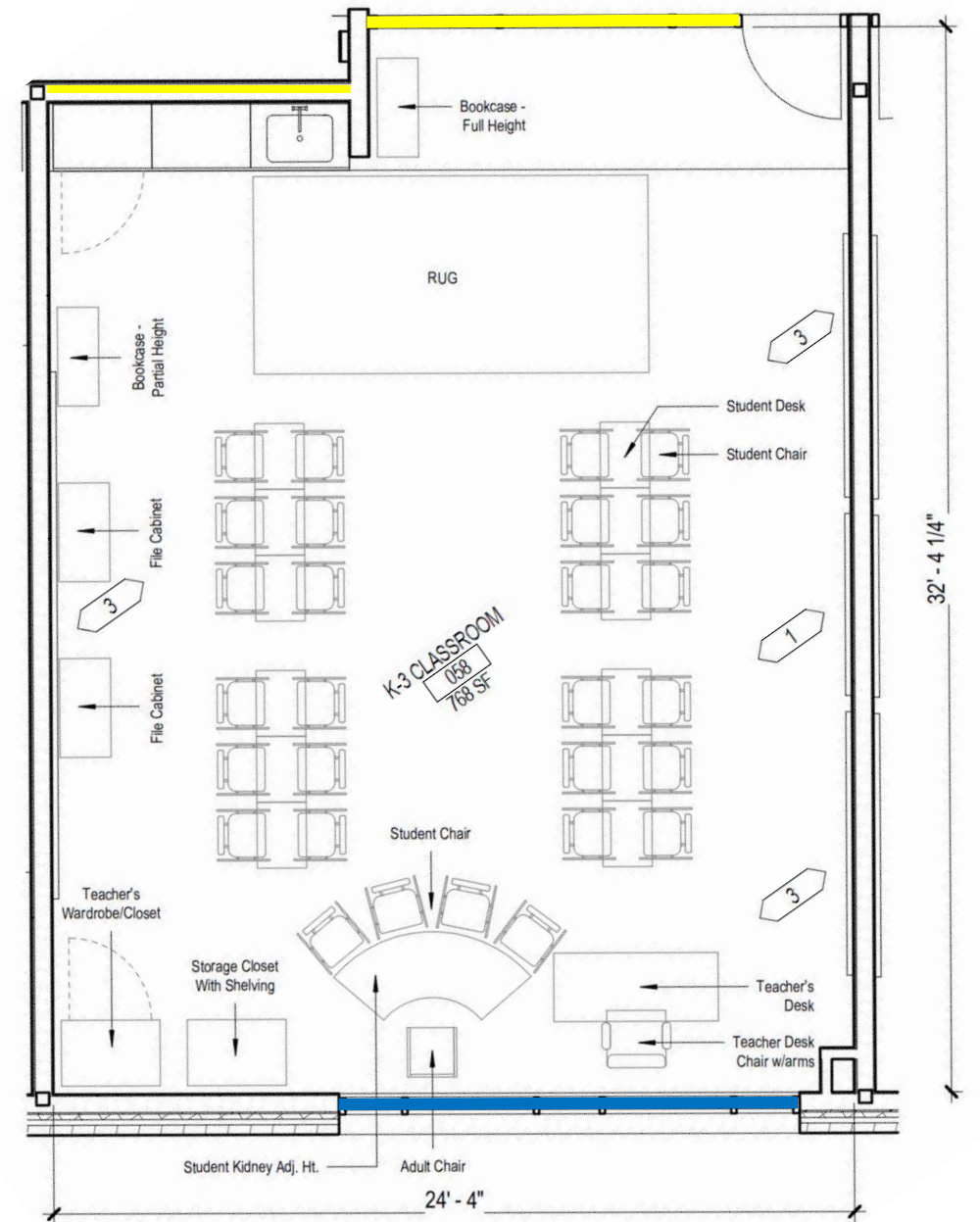


Security Shades

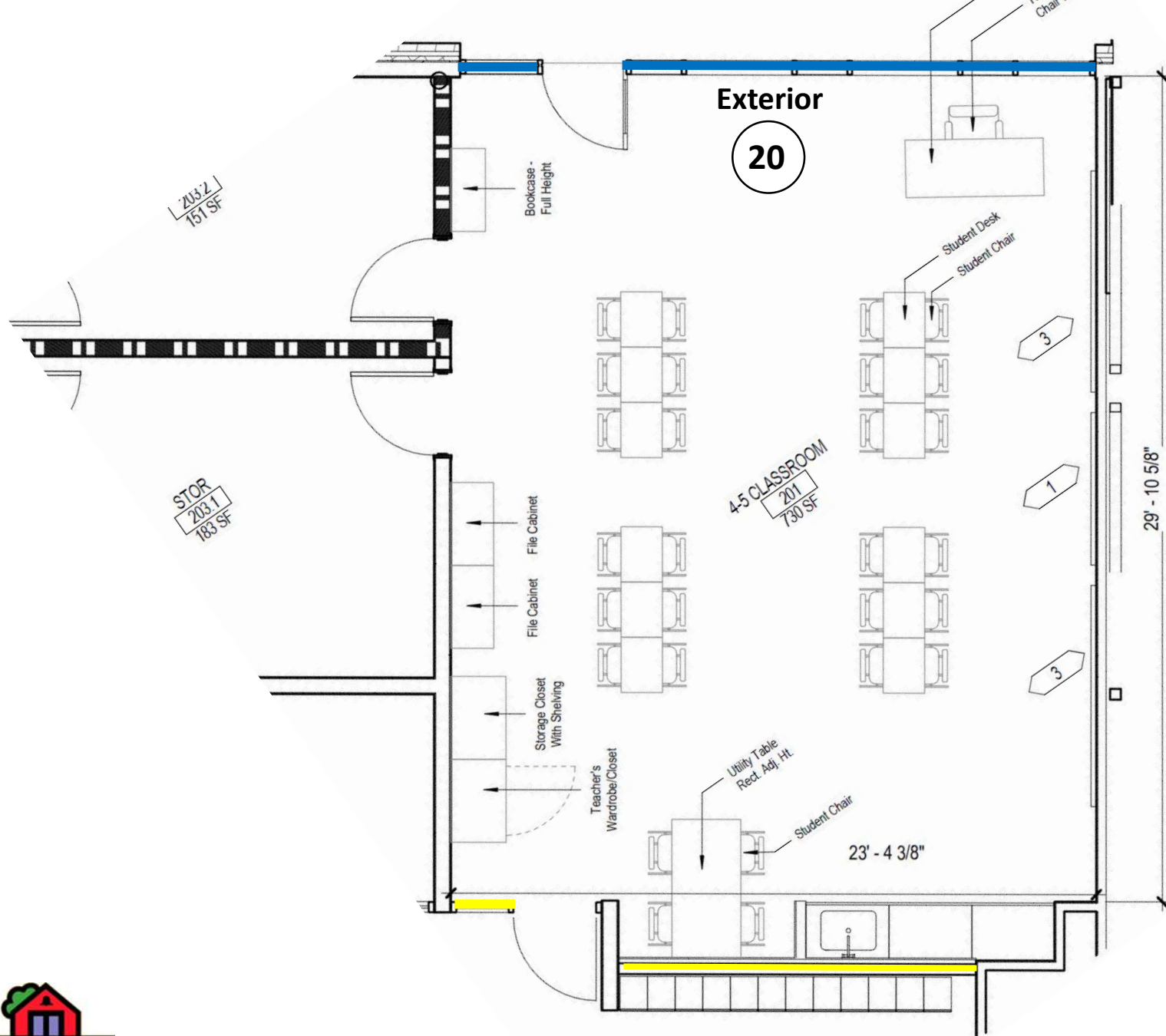
Privacy/Sun Shades



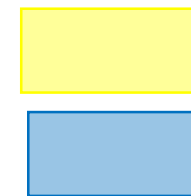
TYPICAL SOUTH CLASSROOM A



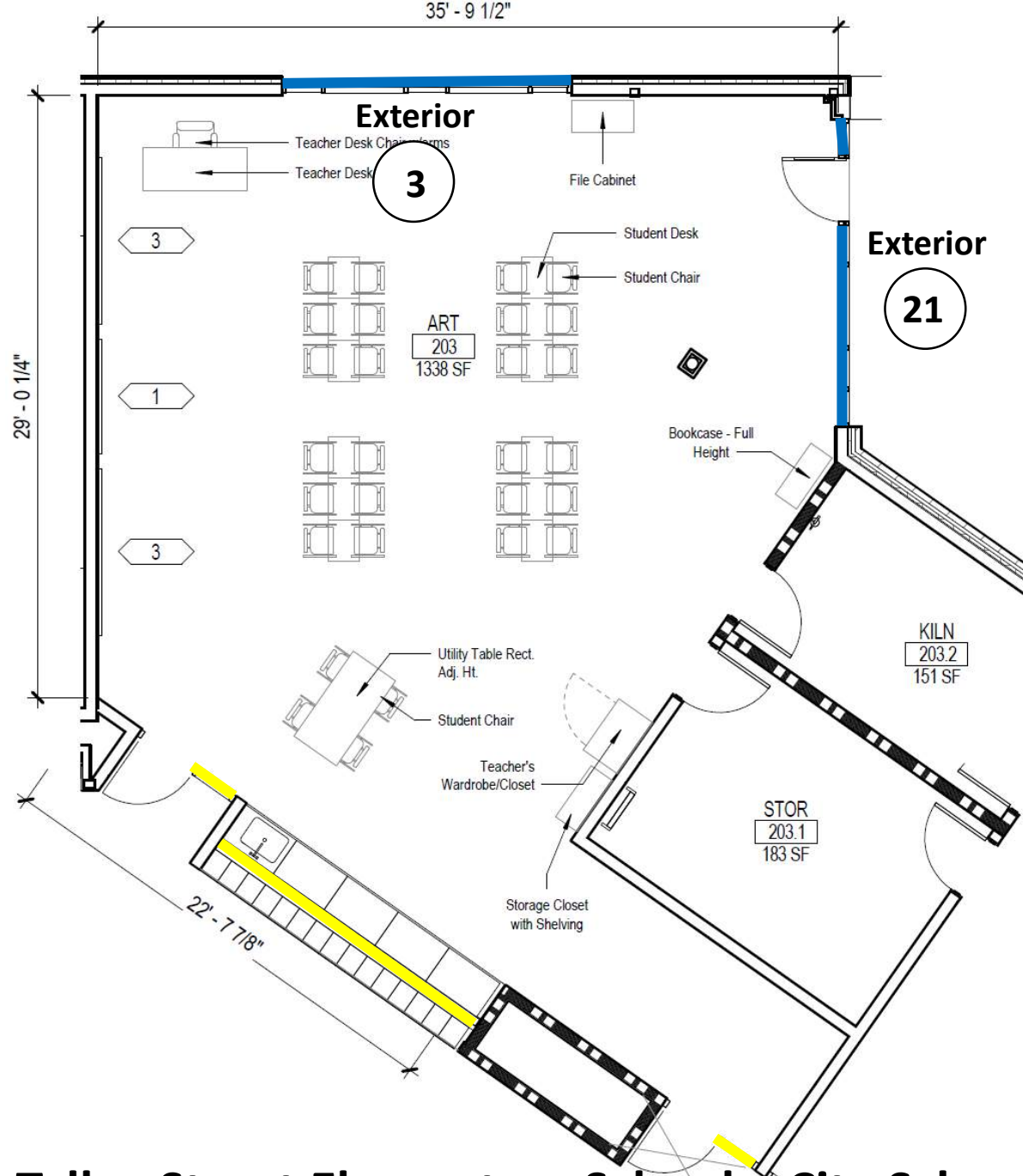
TYPICAL SOUTH CLASSROOM B



TYPICAL LAB (4-5 CLASSROOM)



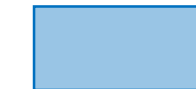
Security Shades
Privacy/Sun Shades



STEM / ART

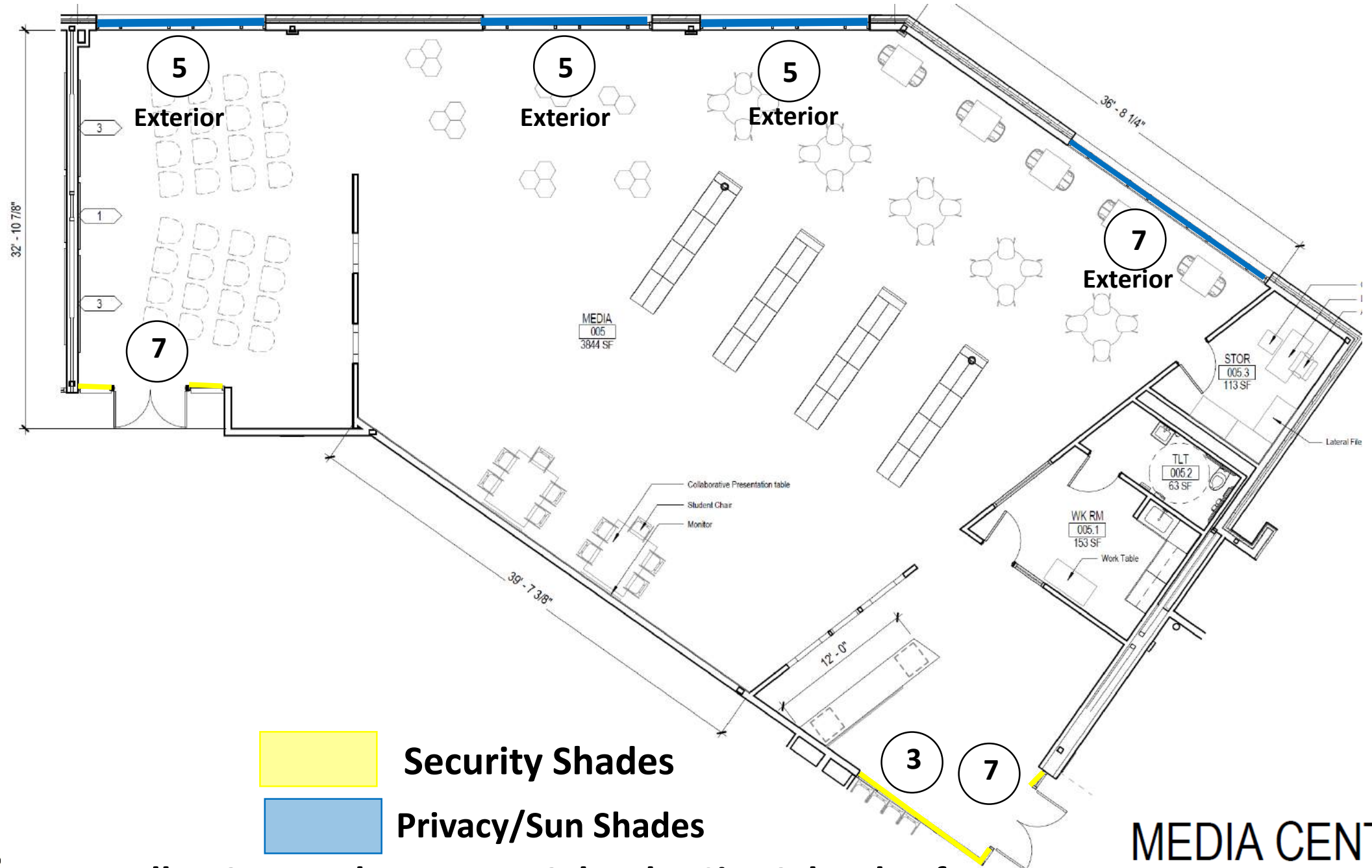


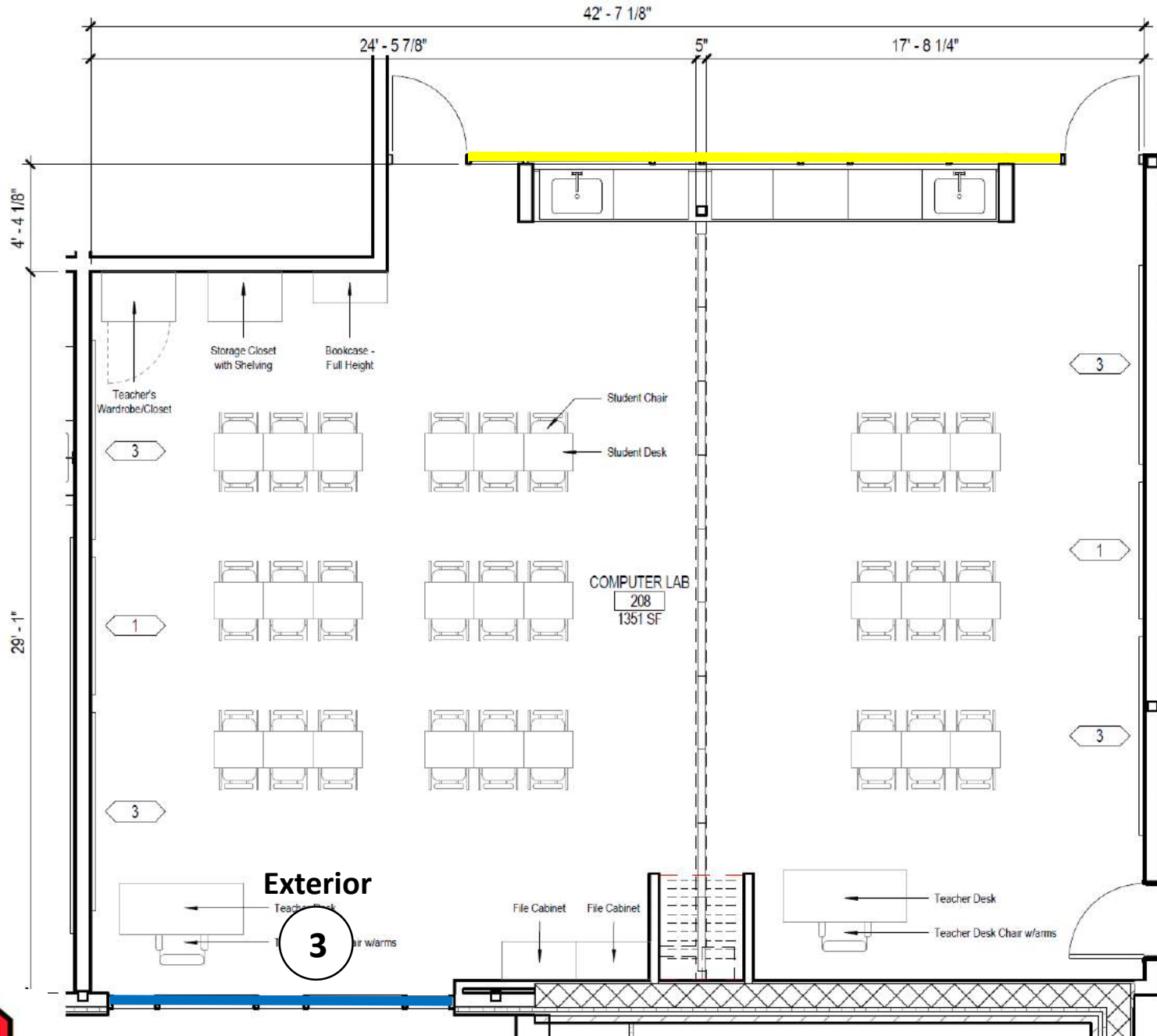
Security Shades



Privacy/Sun Shades

Talley Street Elementary School – City Schools of Decatur



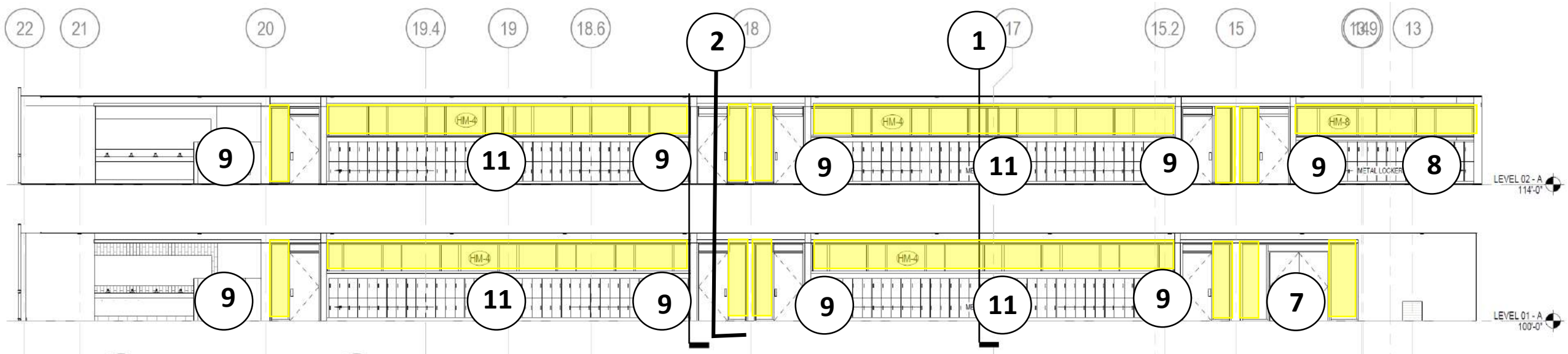


COMPUTER LAB

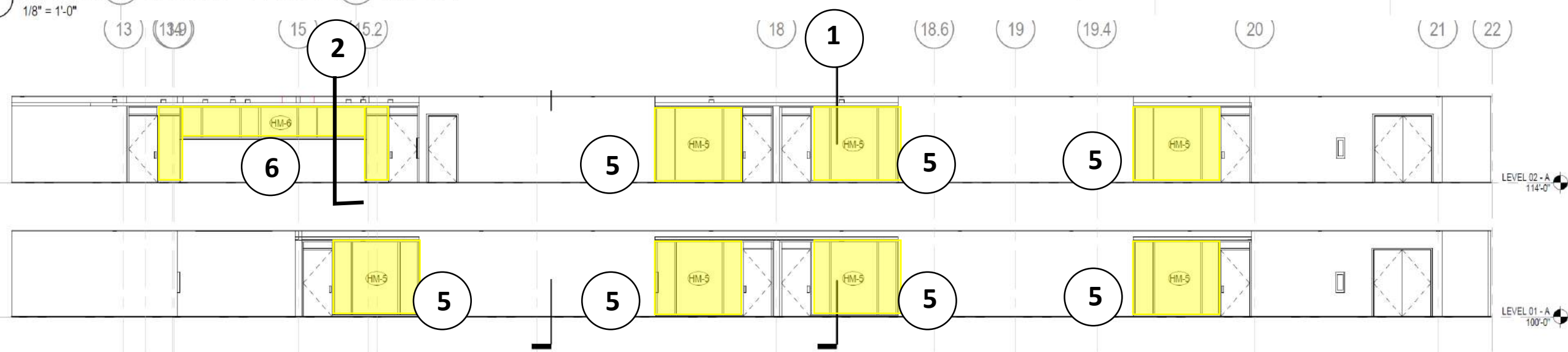
- Security Shades
- Privacy/Sun Shades



Talley Street Elementary School – City Schools of Decatur



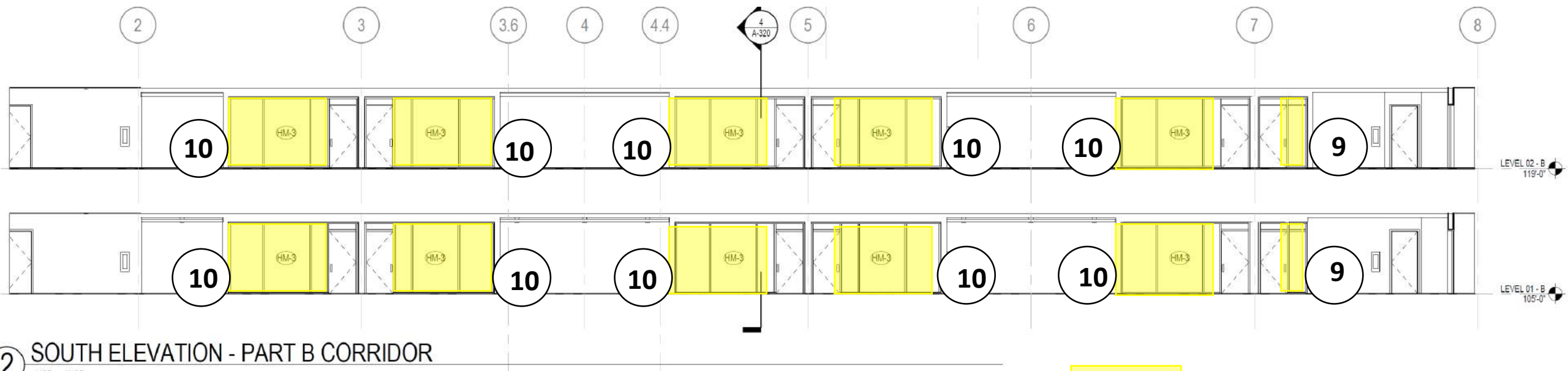
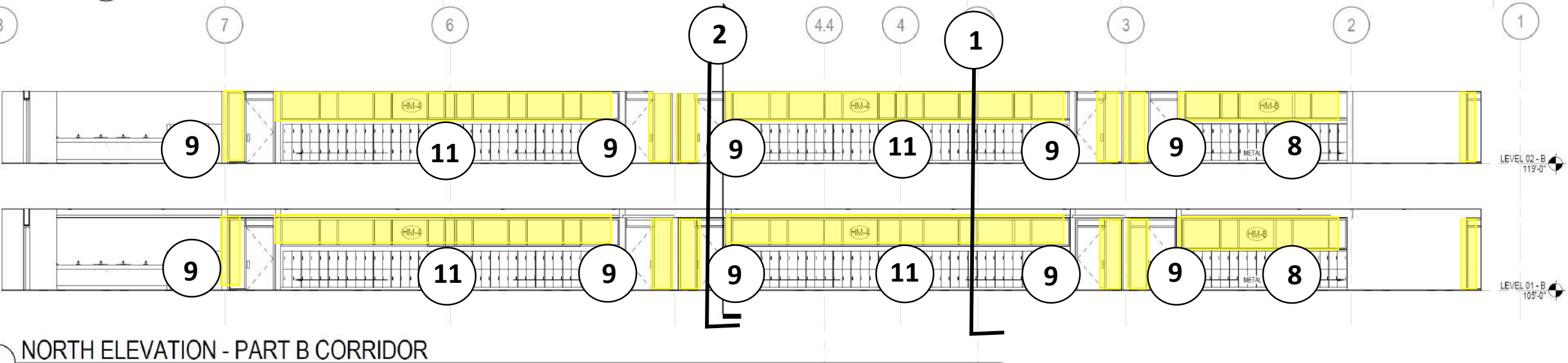
NORTH ELEVATION - PART A CORRIDOR

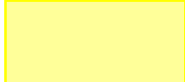


SOUTH ELEVATION - PART A CORRIDOR



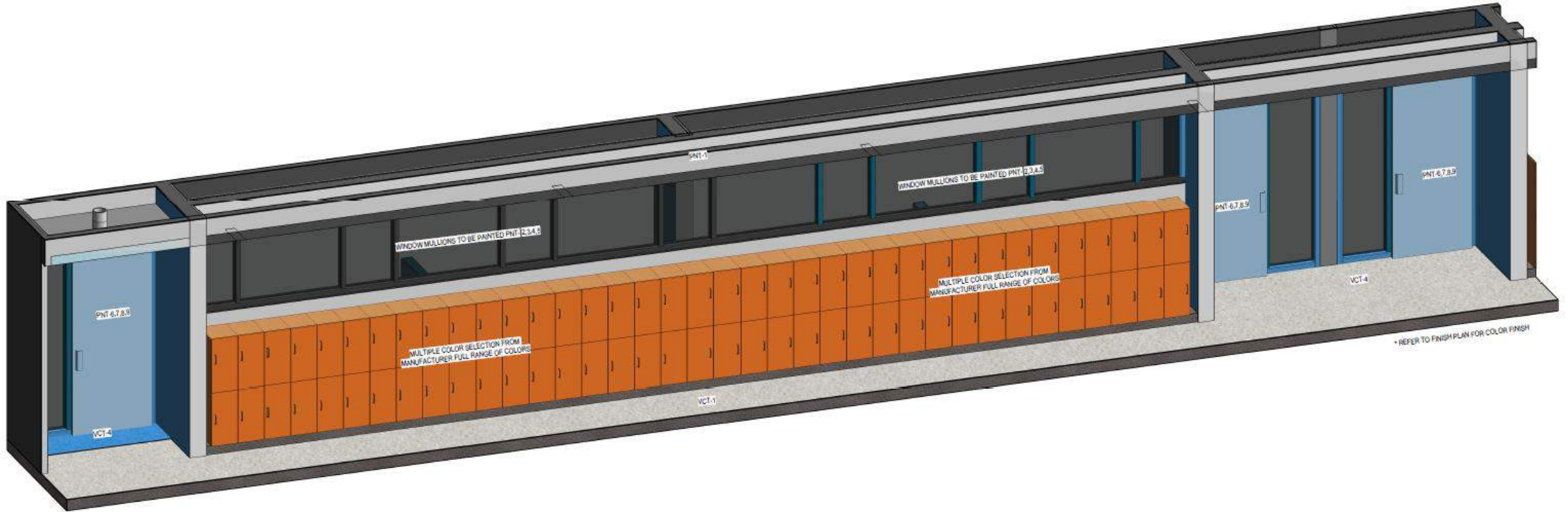
Security Shades



 **Security Shades**



Talley Street Elementary School – City Schools of Decatur



Typical – Corridor/Locker Condition

Talley Street Elementary School – City Schools of Decatur

Motorized Black-out Shades

NOTE: General Contractor is providing electrical service to Junction Boxes. It will be your responsibility to connect your motors to these Junction Boxes.

AWP-1 ALL SIDES OF GYM

AWP-1 ALL SIDES OF GYM

PAINT EXPOSED
TRUSS STRUCTURE
WITH PNT-2

10

Exterior

RAF-1 WITH PAINTED COURT GRAPHICS
(SEE GRAPHIC PACKAGE FOR DETAILS)

SAFETY PANELS

TO OUTDOOR
CLASSROOM

TO OUTDOOR
CLASSROOM

GYM NORTH ELEVATION



Talley Street Elementary School – City Schools of Decatur

Motorized Black-out Shades

NOTE: General Contractor is providing electrical service to Junction Boxes. It will be your responsibility to connect your motors to these Junction Boxes.

AWP-1 ALL SIDES OF GYM

PAINT EXPOSED
TRUSS STRUCTURE
WITH PNT-2

PNT-1 ON ALL WALLS

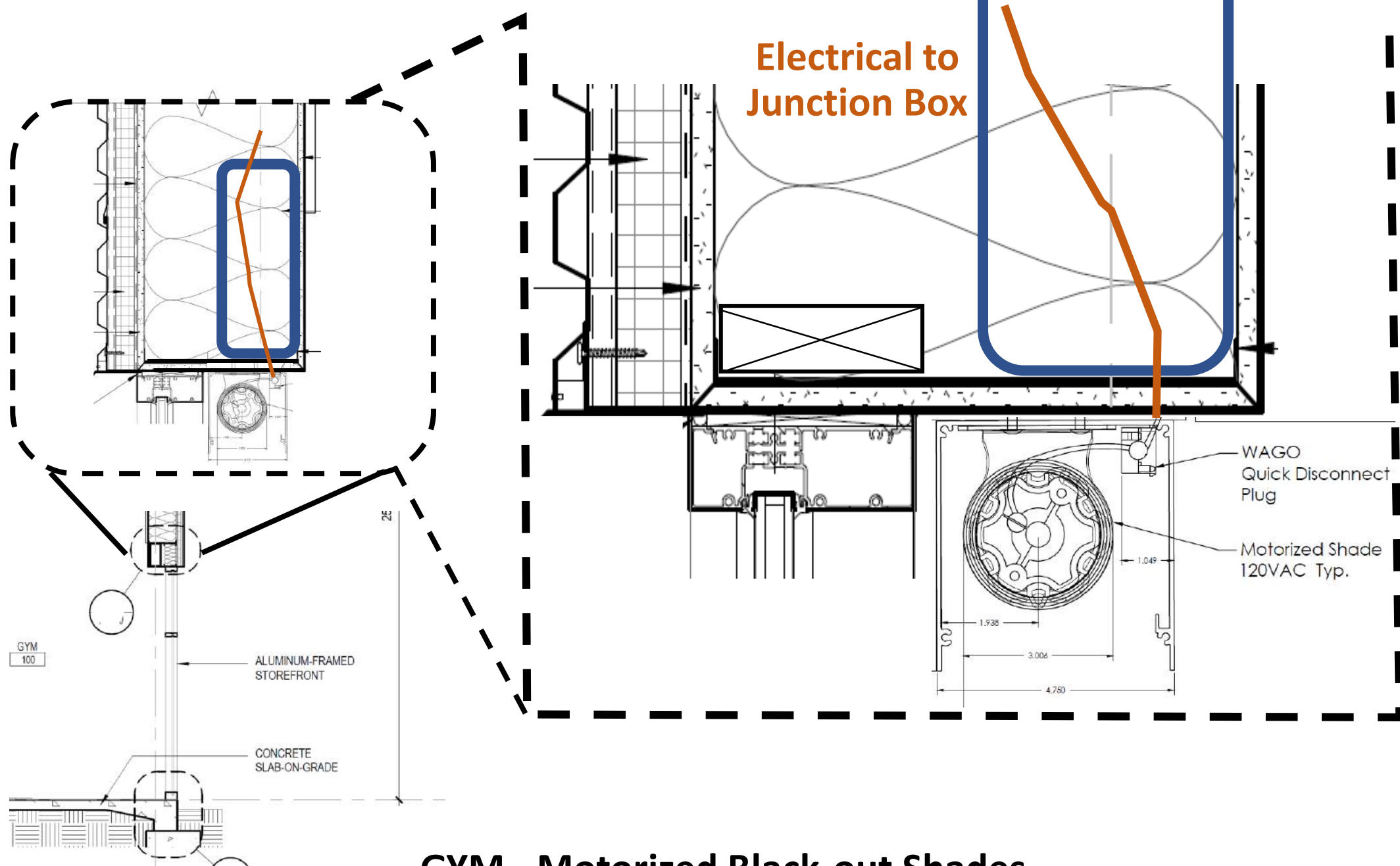
SAFETY PANELS

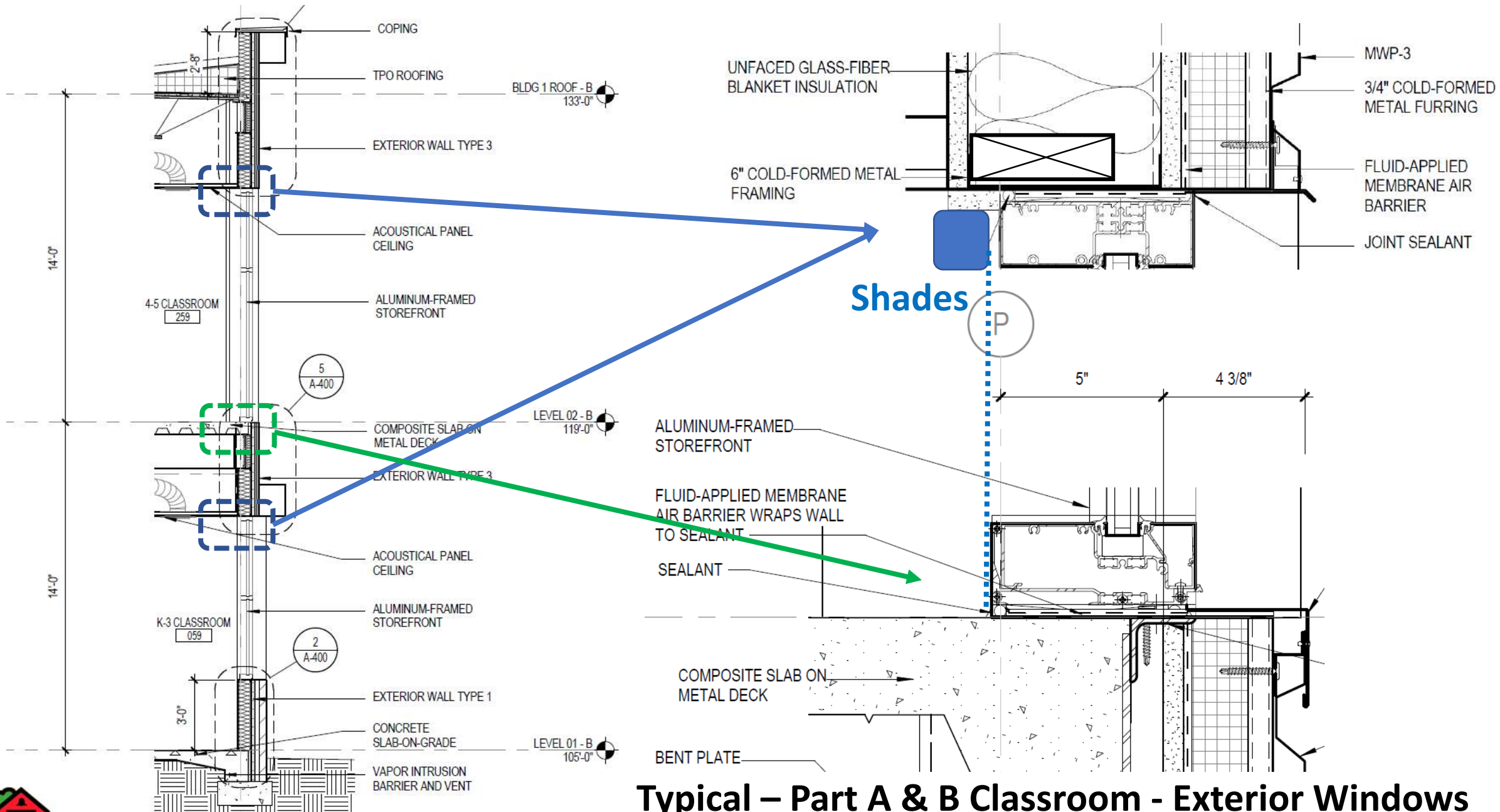
17

Exterior

SEE GRAPHIC PACKAGE FOR DETAILS

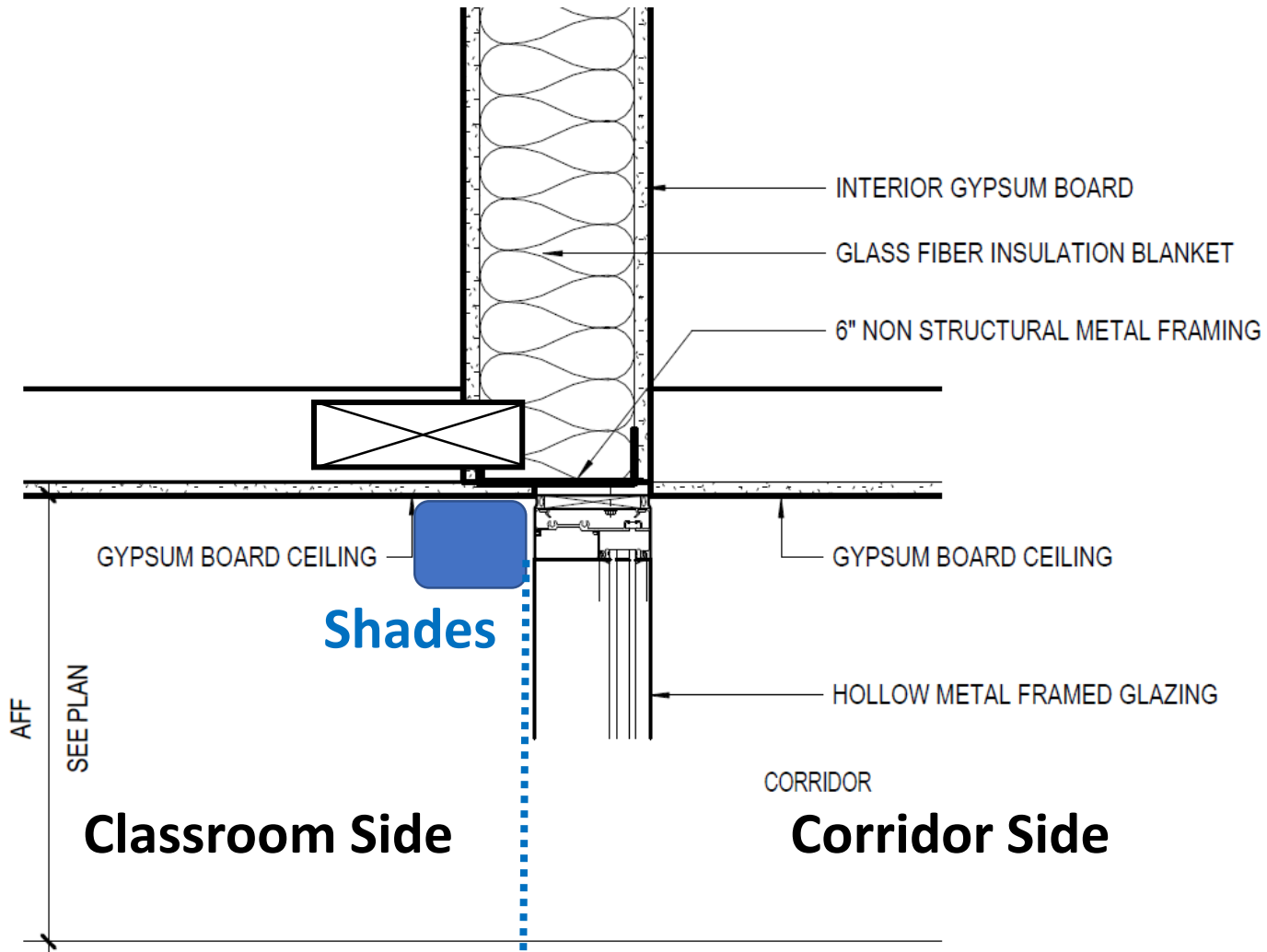
GYM WEST ELEVATION





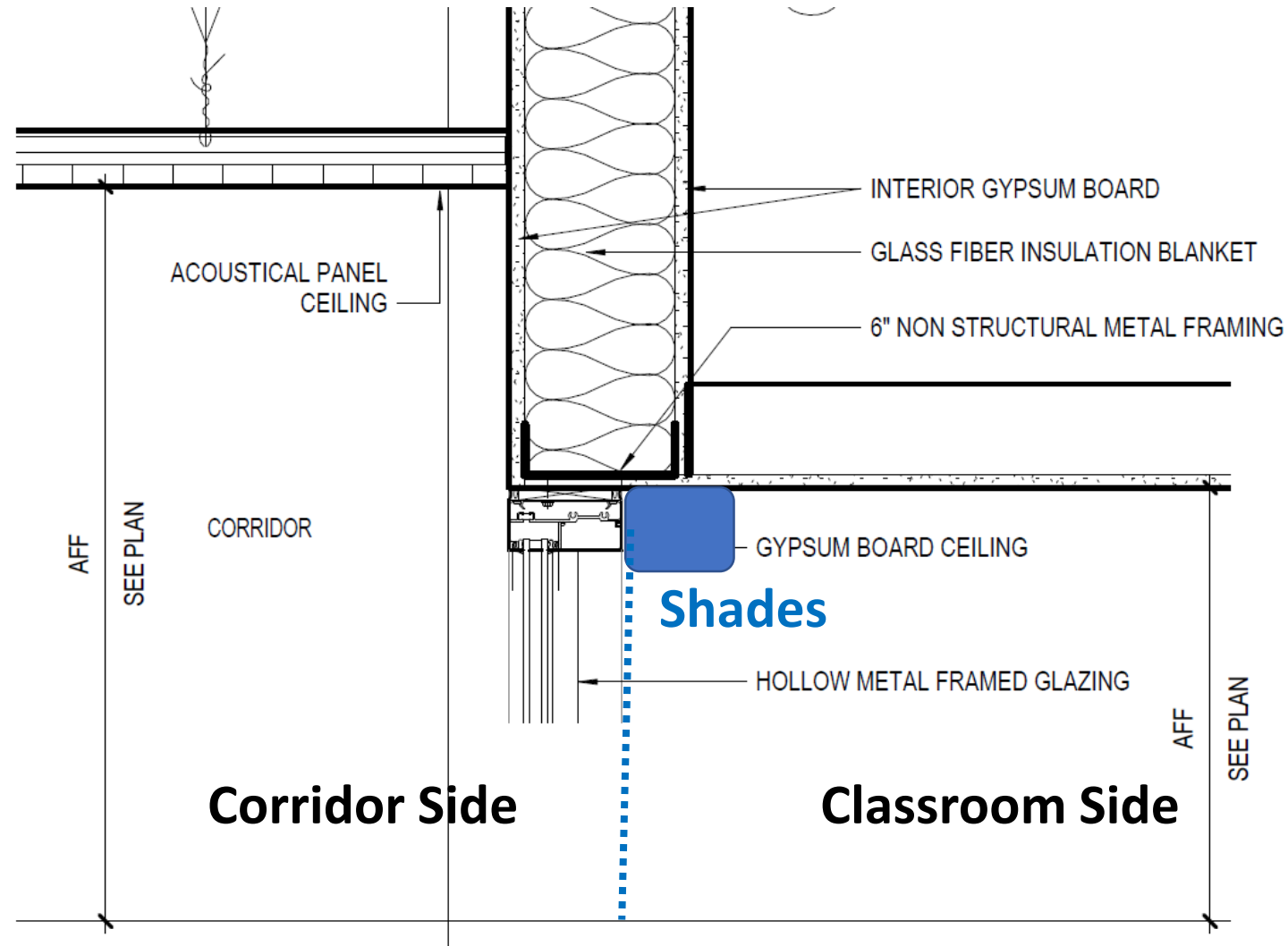
Typical – Part A & B Classroom - Exterior Windows

Talley Street Elementary School – City Schools of Decatur

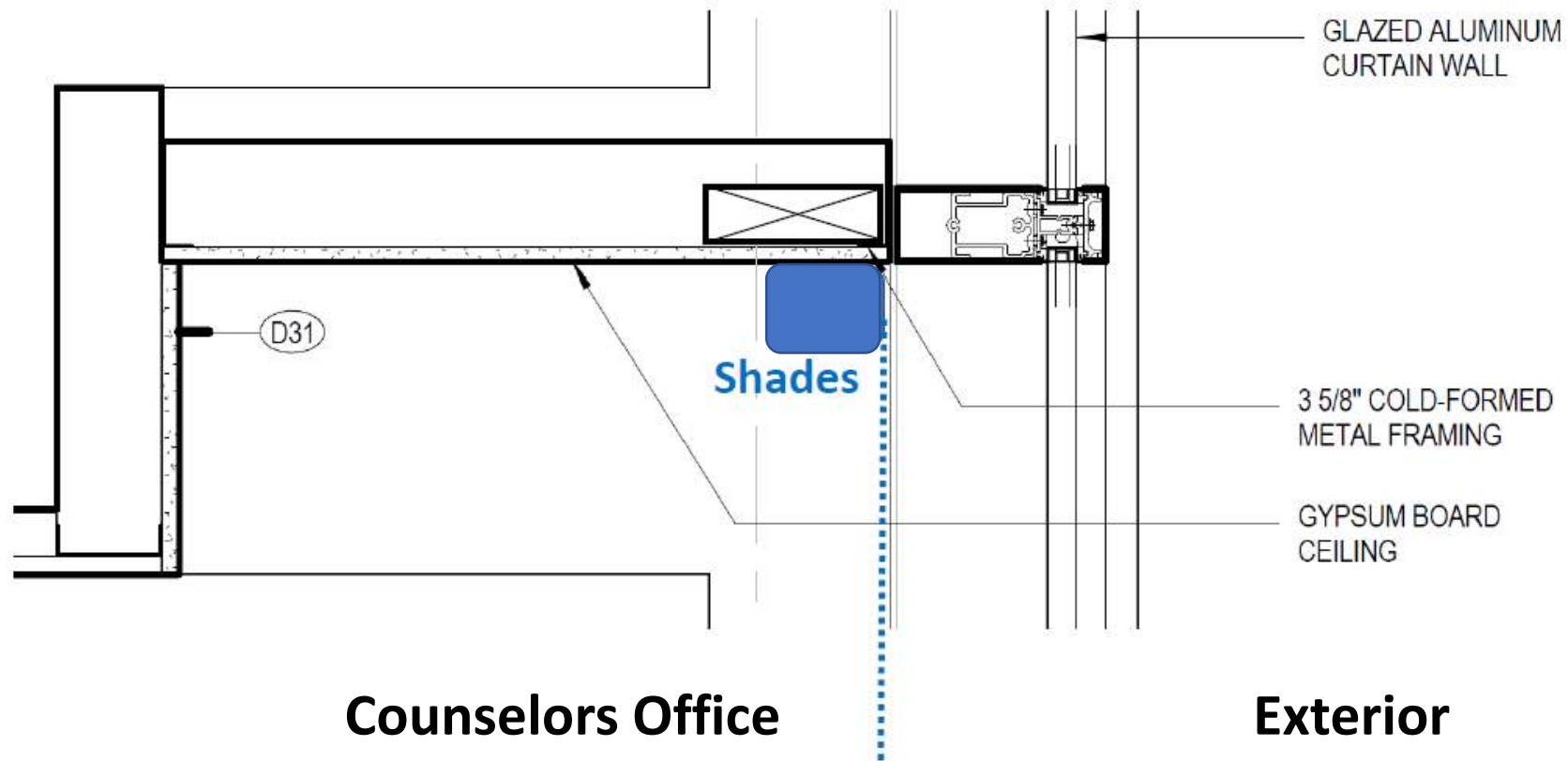


1 TYP DTL AT CORRIDOR GYP TO HM FRAME TO C

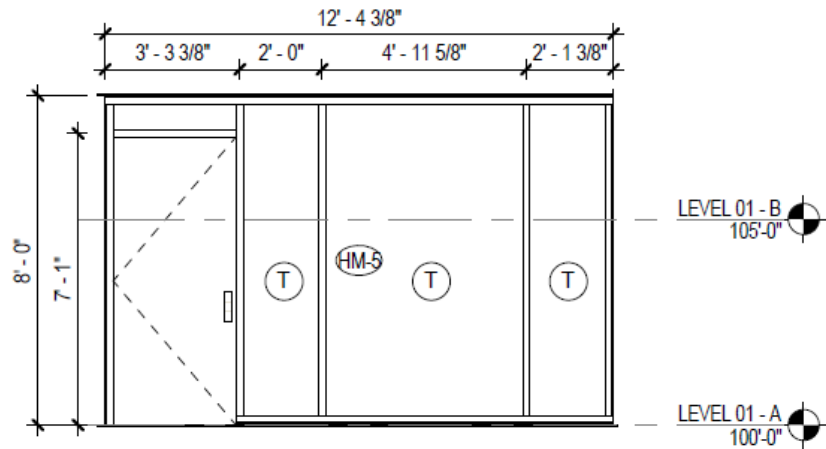
1 1/2" = 1'-0"



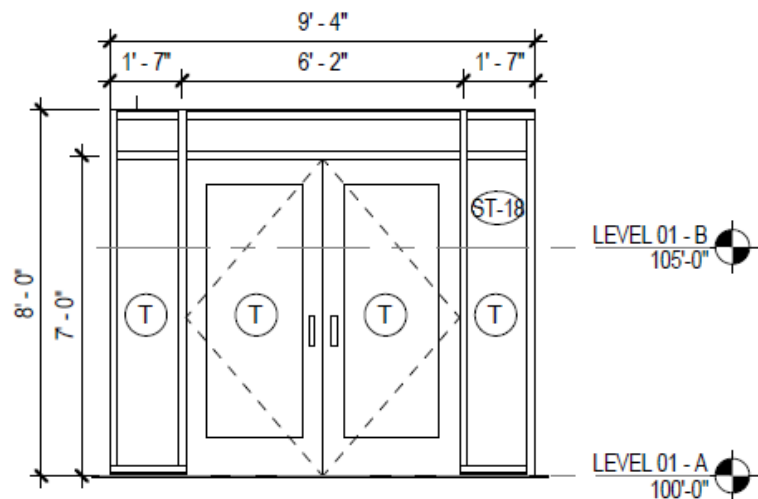
2 TYP DTL AT GYP TO HM FRAME TO APC
 1 1/2" = 1'-0"



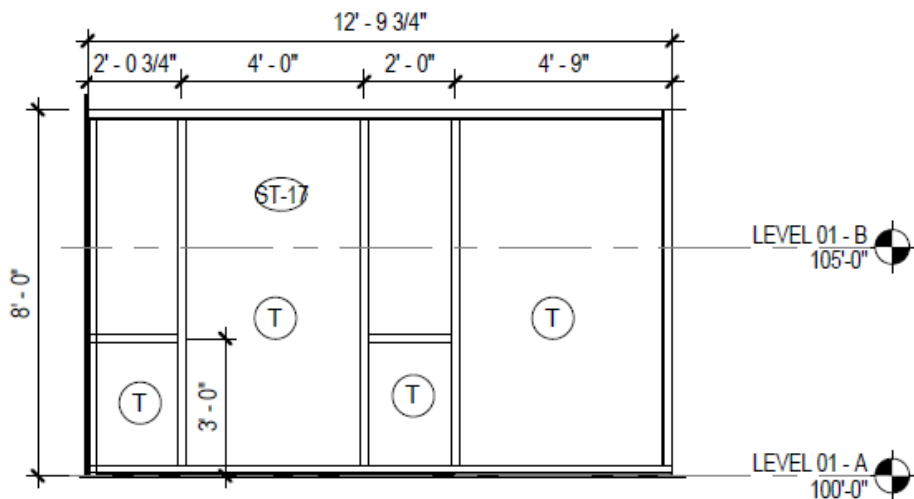
NOTE: Field Measure to verify specific Dimensions prior to ordering Shades



5 INT. HOLLOW METAL - HM-5
1/4" = 1'-0"



4 INT. STOREFRONT - ST-18
1/4" = 1'-0"

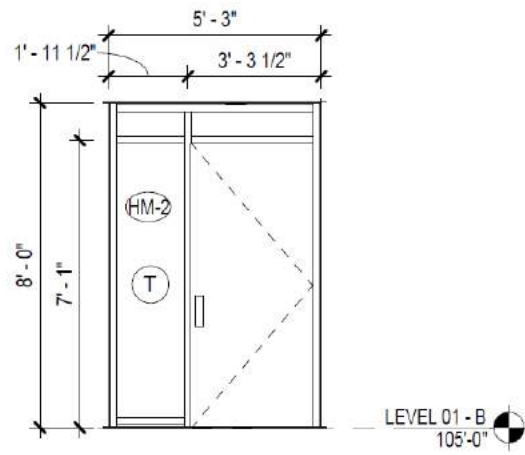


3 INT. STOREFRONT - ST-17
1/4" = 1'-0"

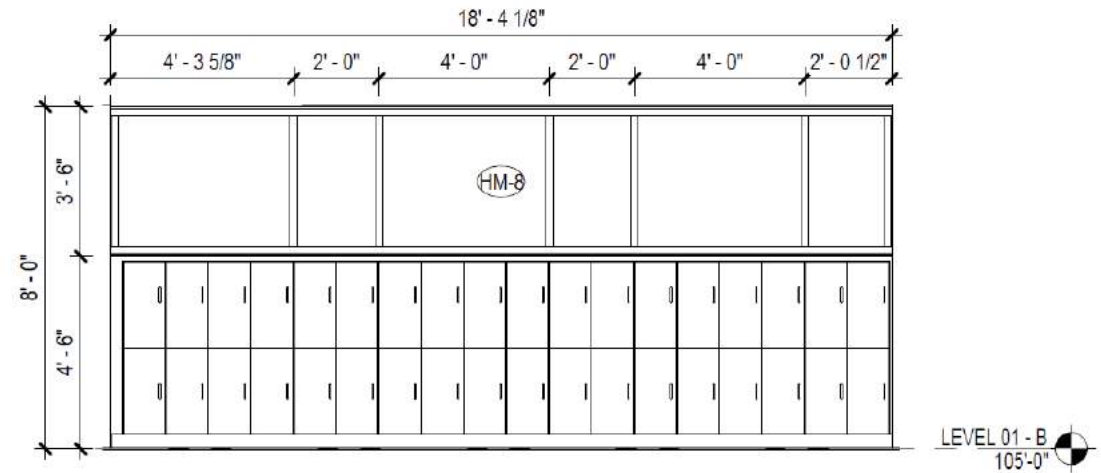
Interior Storefront Elevations

Talley Street Elementary School – City Schools of Decatur

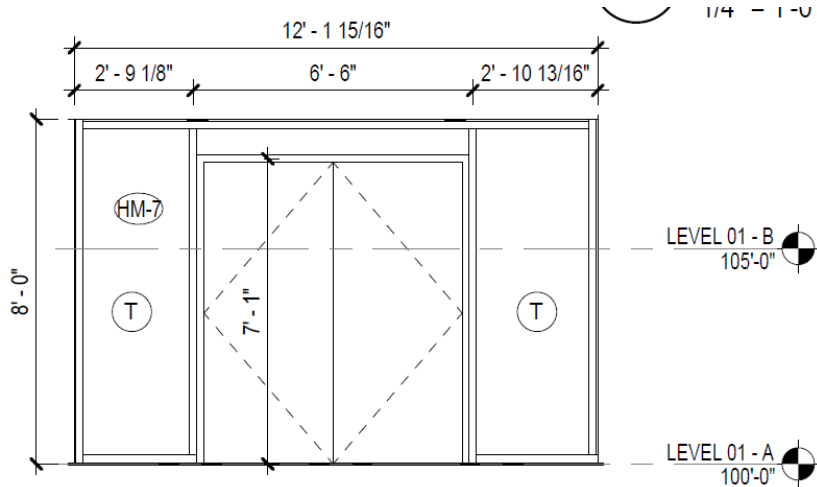




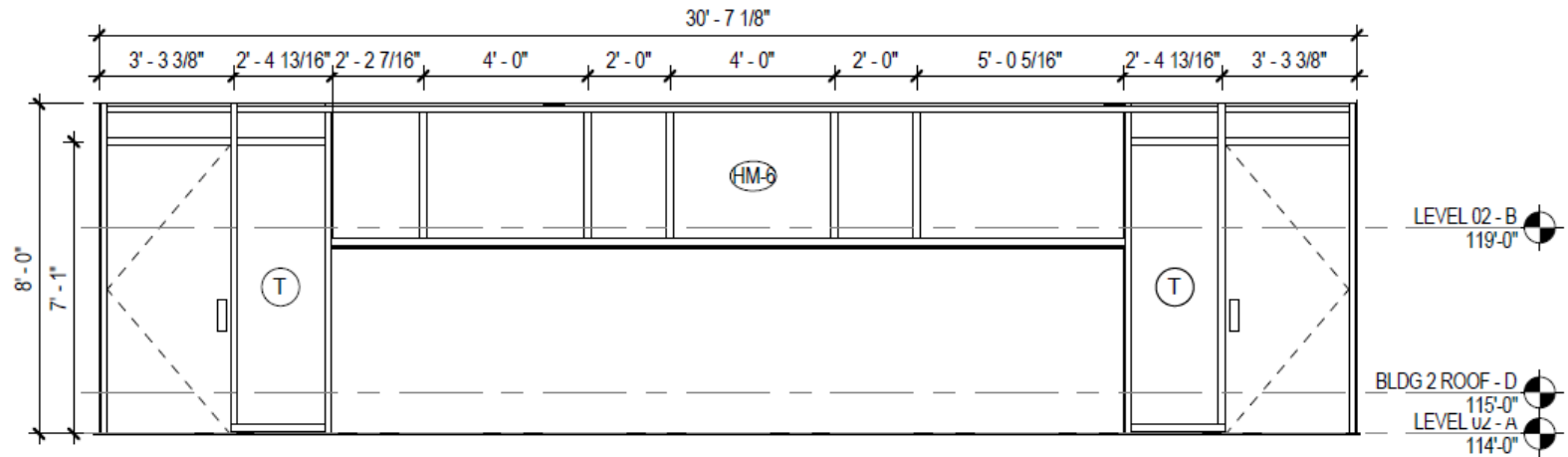
9 INT. HOLLOW METAL - HM-2
1/4" = 1'-0"



8 INT. HOLLOW METAL - HM-8
1/4" = 1'-0"

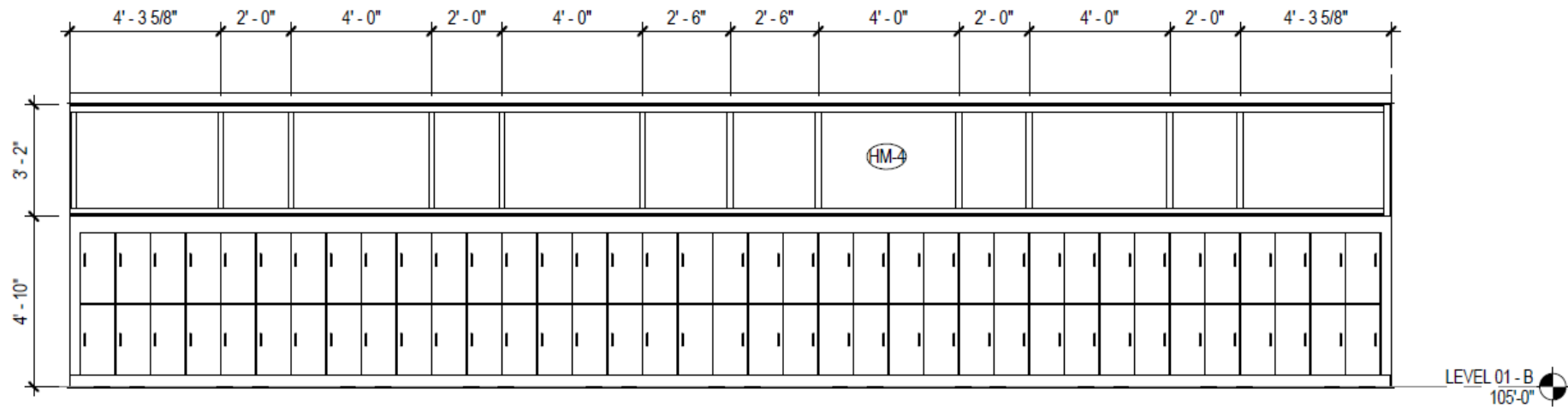


7 INT. HOLLOW METAL - HM-7
1/4" = 1'-0"

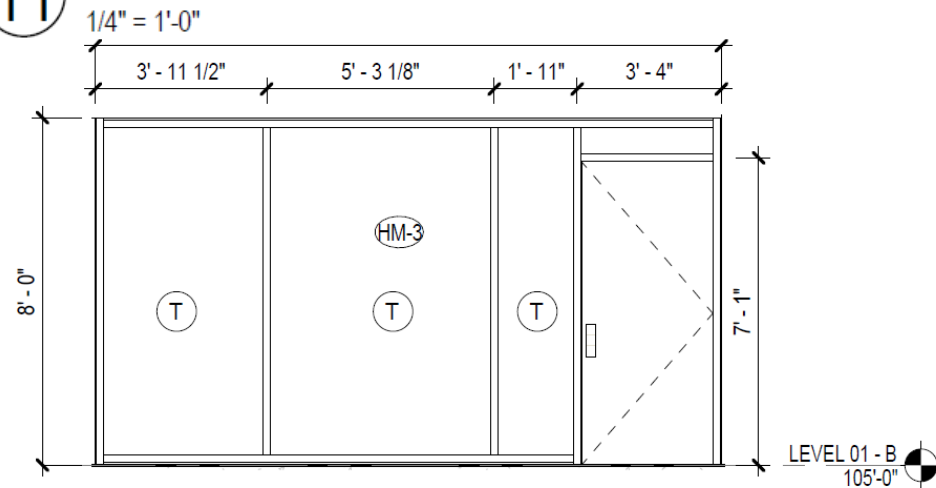


6 INT. HOLLOW METAL - HM-6
1/4" = 1'-0"

NOTE: Field Measure to verify specific Dimensions prior to ordering Shades

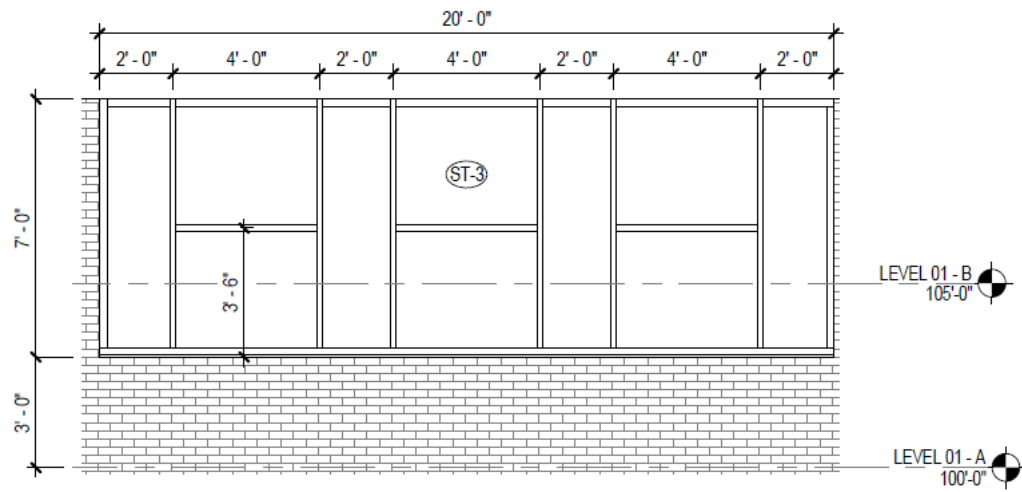


11 INT. HOLLOW METAL - HM-4

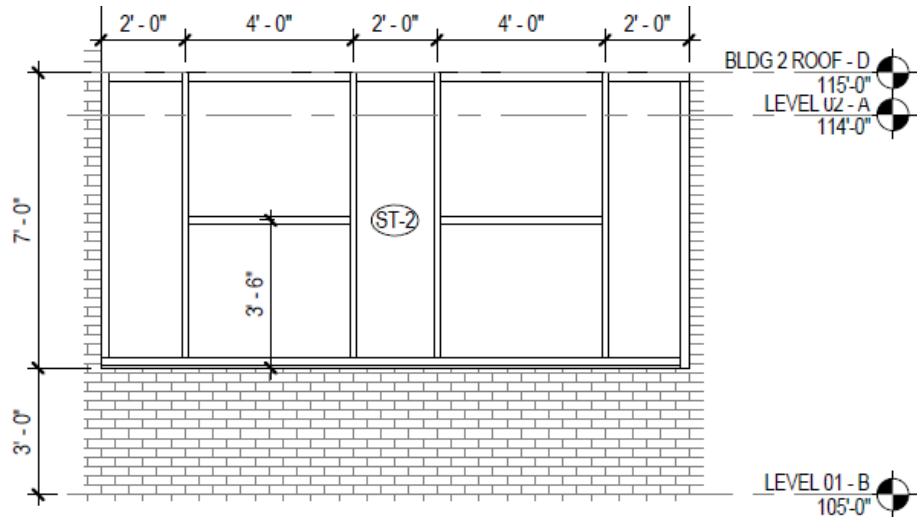


10 INT. HOLLOW METAL - HM-3

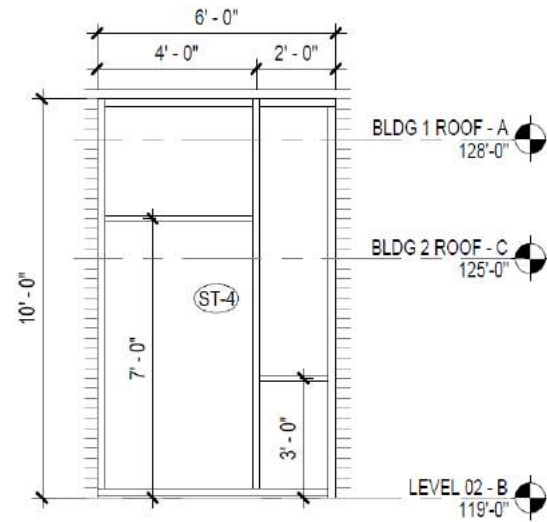
NOTE: Field Measure to verify specific Dimensions prior to ordering Shades



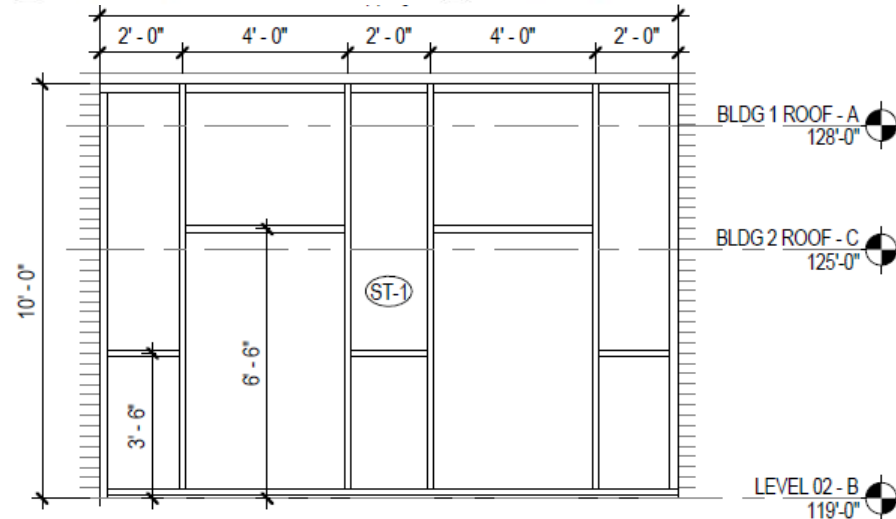
7 EXT. STOREFRONT - ST-3 (T) TYP AT ALL PANES
1/4" = 1'-0"



5 EXT. STOREFRONT - ST-2 (T) TYP AT ALL PANES
1/4" = 1'-0"



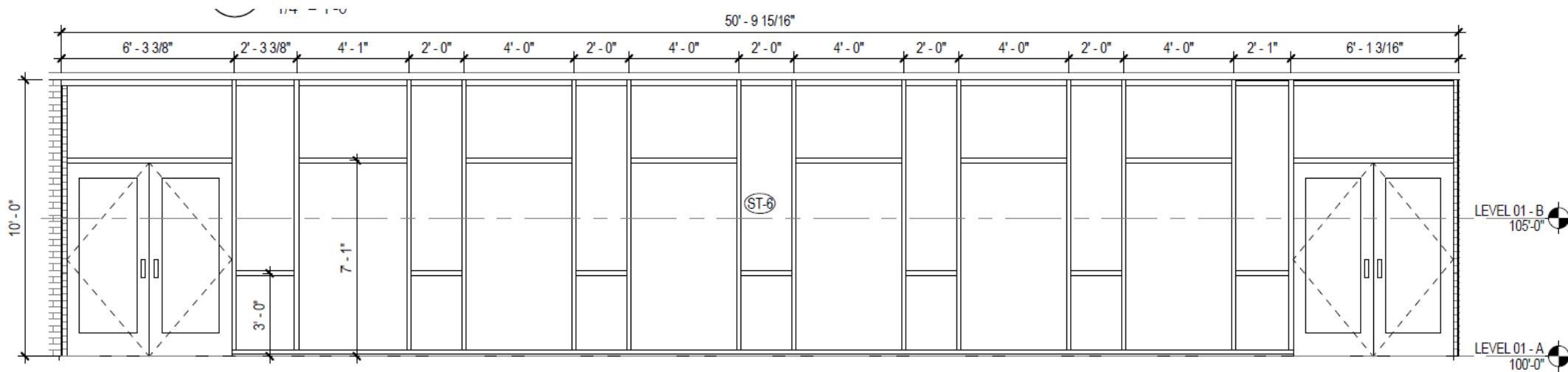
8 EXT. STOREFRONT - ST-4 (T) TYP AT ALL PANES
1/4" = 1'-0"



3 EXT. STOREFRONT - ST-1 (T) TYP AT ALL PANES
1/4" = 1'-0"

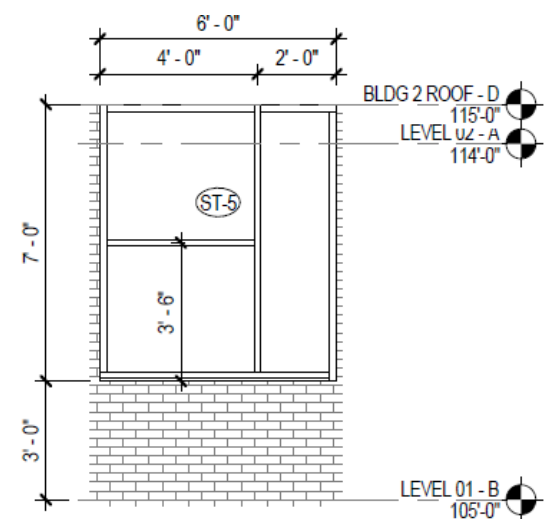
NOTE: Field Measure to verify specific Dimensions prior to ordering Shades

Exterior Storefront Elevations Talley Street Elementary School – City Schools of Decatur

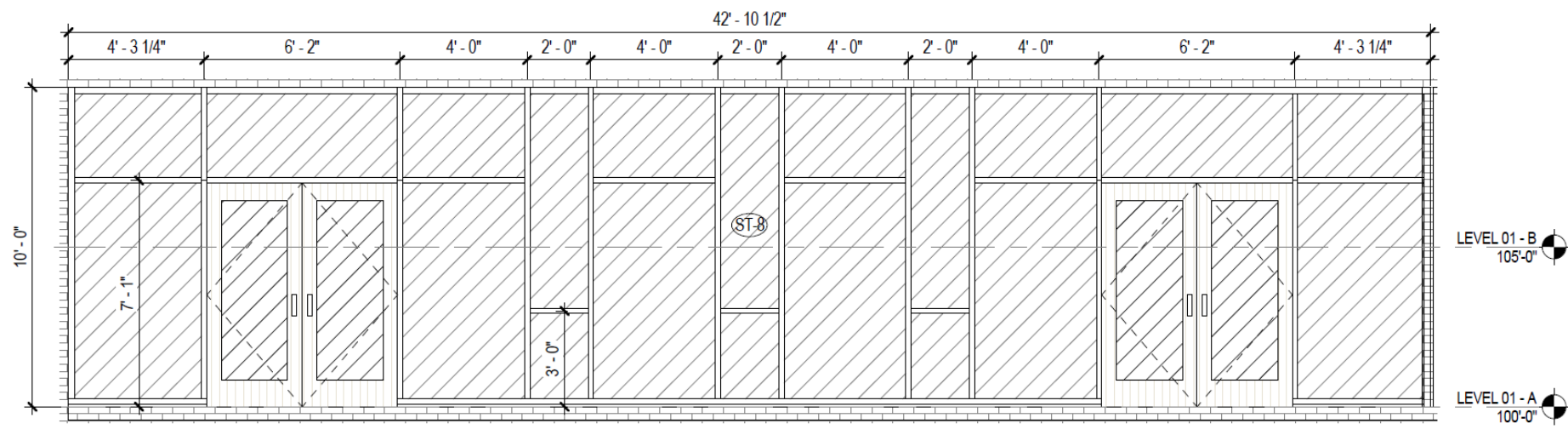


NOTE: Field Measure to verify specific Dimensions prior to ordering Shades

10 EXT. STOREFRONT - ST-6 (T) TYP AT ALL PANES
1/4" = 1'-0"



9 EXT. STOREFRONT - ST-5 (T) TYP AT ALL PANES
1/4" = 1'-0"

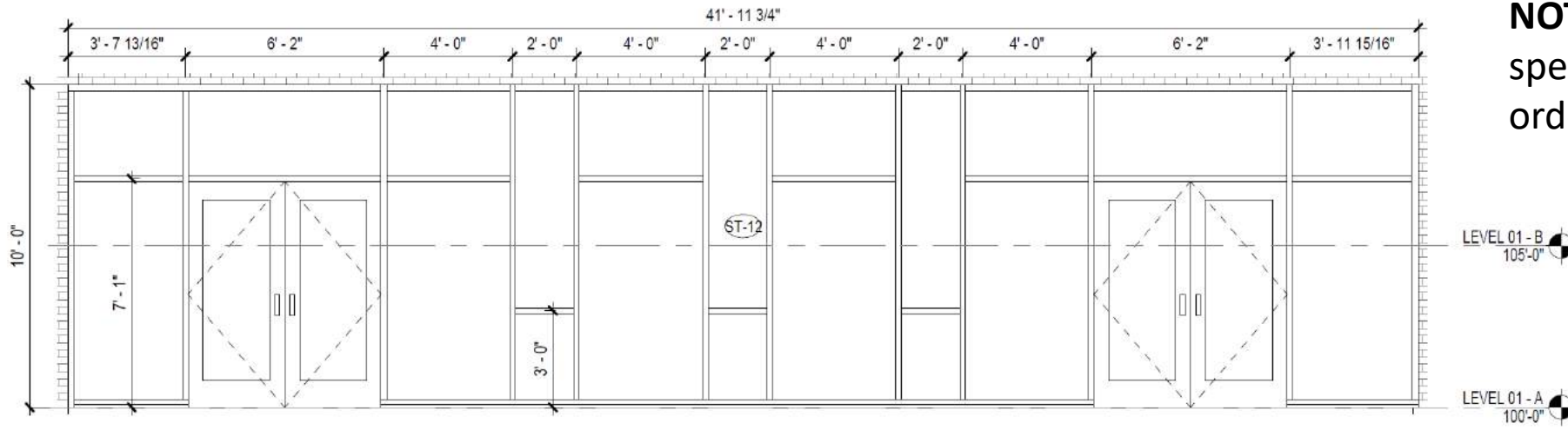


15 EXT. STOREFRONT - ST-8 (T) TYP AT ALL PANES
1/4" = 1'-0"



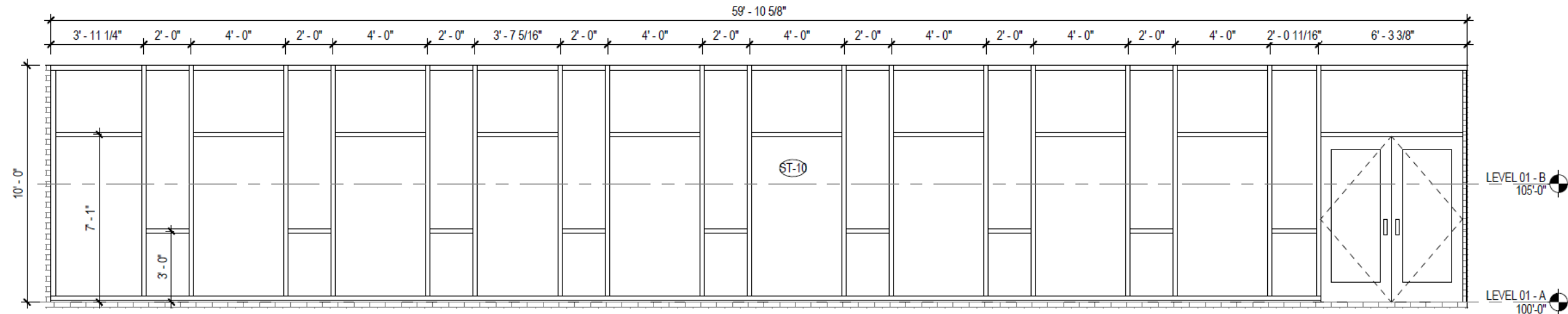
Exterior Storefront Elevations

Talley Street Elementary School – City Schools of Decatur



NOTE: Field Measure to verify specific Dimensions prior to ordering Shades

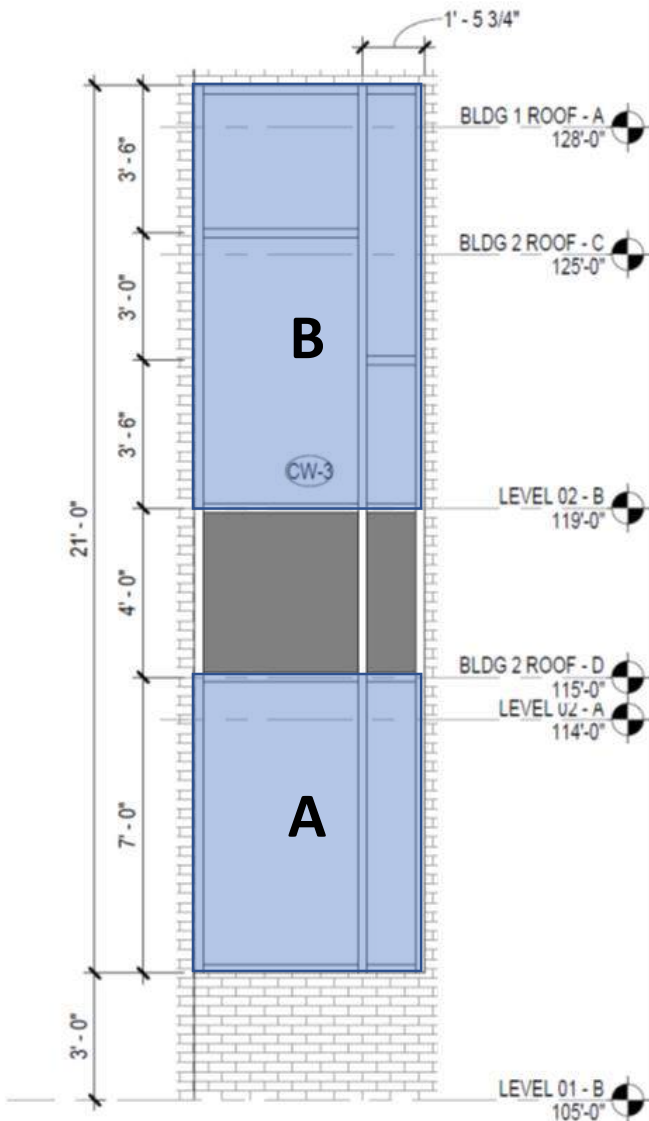
19 EXT. STOREFRONT - ST-12 (T) TYP AT ALL PANES
1/4" = 1'-0"



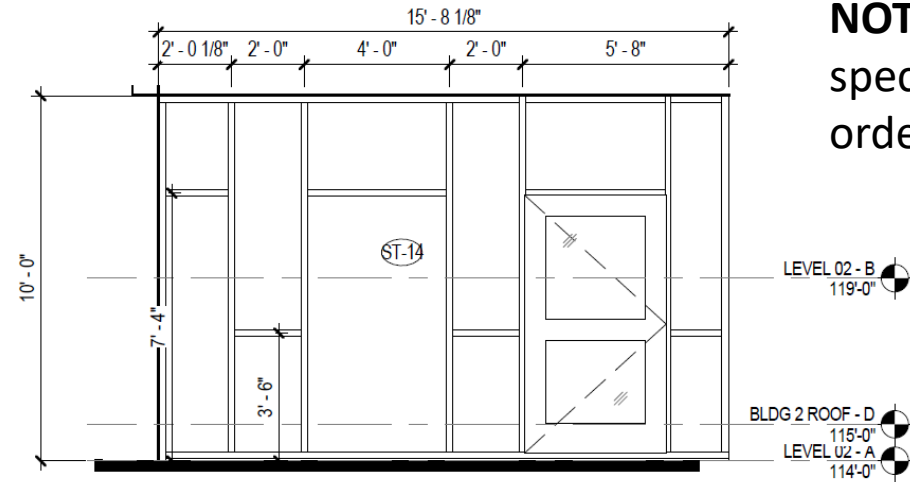
17 EXT. STOREFRONT - ST-10 (T) TYP AT ALL PANES
1/4" = 1'-0"



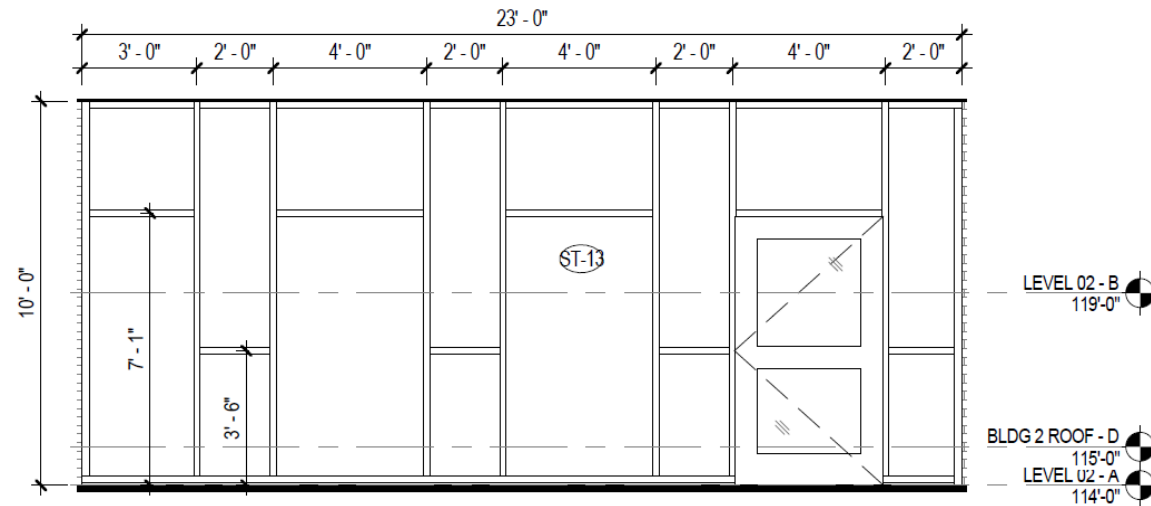
Exterior Storefront Elevations Talley Street Elementary School – City Schools of Decatur



12 EXT. CURTAIN WALL - CW-3
1/4" = 1'-0" (T) TYP AT ALL PANES



21 EXT. STOREFRONT - ST-14 (T) TYP AT ALL PANES
1/4" = 1'-0"



20 EXT. STOREFRONT - ST-13 (T) TYP AT ALL PANES
1/4" = 1'-0"

NOTE: Field Measure to verify specific Dimensions prior to ordering Shades

SPECIFICATIONS

SECTION 122413 - ROLLER WINDOW SHADES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Manually operated roller shades [with single rollers] [with dual rollers] [with coupled rollers].
- B. Related Requirements:
 - 1. Section 061053 "Miscellaneous Rough Carpentry" for wood blocking and grounds for mounting roller shades and accessories.
 - 2. Section 079200 "Joint Sealants" for sealing the perimeters of installation accessories for light-blocking shades with a sealant.
 - 3. Section 092900 "Gypsum Board" for coordination with installation of shade pockets, closure, and related accessories.

1.3 ALLOWANCES

- A. Roller shades are part of [Window-Covering Allowance] <Insert name of allowance>.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions for roller shades.
- B. Shop Drawings: Show fabrication and installation details for roller shades, including shade materials, orientation to rollers, and seam and batten locations.
- C. Samples: For each exposed product and for each color and texture specified, 10 inches (250 mm) long.
- D. Samples for Initial Selection: For each type and color of fabric band material.
 - 1. Include Samples of accessories involving color selection.
- E. Samples for Verification: For each type of roller shade.
 - 1. Shade Material: Not less than [4 inches (102 mm)] [6 inches (152 mm)] square. Mark inside face of material if applicable.
 - 2. Roller Shade: Full-size operating unit, not less than 16 inches (400 mm) wide by 36 inches (900 mm) long for each type of roller shade indicated.
 - 3. Installation Accessories: Full-size unit, not less than 6 inches (152 mm) long.
- F. Roller-Shade Schedule: Use same designations indicated on Drawings.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Certificates: For each type of fabric band material, signed by product manufacturer.
- C. Product Test Reports: For each type of fabric band material, for tests performed by [manufacturer and witnessed by a qualified testing agency] [a qualified testing agency].

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roller shades to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Roller Shades: Full-size units equal to 5 percent of quantity installed for each size, color, and fabric band material indicated, but no fewer than [two] <Insert number> units.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.
 - 1. Installer shall be qualified to install specified products by prior experience and approved by Springs Window Fashions LLC.
 - 2. Installer shall be responsible for acceptable installation in accordance with instructions published by Springs Window Fashions LLC.
- B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
 - 1. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roller shades in factory packages, marked with manufacturer, product name, and location of installation using same designations indicated on Drawings.

1.10 FIELD CONDITIONS

- A. Environmental Limitations: Do not install roller shades until construction and finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operating hardware of operable glazed units through entire operating range. Notify Architect of installation conditions that vary from Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Open to Proposer
- B. Source Limitations: Obtain roller shades from single source from single manufacturer.

2.2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS

- A. Chain-and-Clutch Operating Mechanisms: With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.
 - 1. Bead Chains: [#10 Stainless steel] [Molded plastic bead on nylon cord] <Insert description>.
 - a. Loop Length: [As required to operate full height of window shade] [As indicated on Drawings] <Insert length>.
 - b. Limit Stops: Provide upper and lower [round nickel-plated steel ball stops] [clear plastic, cylindrical ball stop].
 - c. Chain-Retainer Type: Locking-style chain retainer restricts the operation of the chain unless the chain retainer is properly mounted to a fixed surface such as a window frame, sill, or wall. Compliant with American National Standard for Safety of Corded Window Covering Products ANSI A100.1. Non-locking P-Clip is not acceptable.>.
 - 1) Color: [White] [Vanilla] [Gray] [Brown] [Black].
 - d. Plastic Bead Chain Color: [White] [Vanilla] [Gray] [Brown] [Black].
 - 2. Spring Lift-Assist Mechanisms (SA): Manufacturer's standard for balancing roller-shade weight and lifting heavy roller shades.



SPECIFICATIONS

- a. Provide 6 lb (2.7 kg) lift assist for shades as recommended by manufacturer.
- B. Rollers: Extruded-aluminum tubes engineered with channel to accept fabric spline. The diameter and wall thickness to be determined by manufacturer based on fabric selection and shade size to provide minimal deflection and optimal performance.
 1. Clutch System: Consists of fiberglass filled nylon for wear resistance, smooth operation and corrosion resistance. The clutch is comprised Velvetrol™ internal spring arrangement for a smooth pulling force that locks the shade in any position when operating the control loop. The clutch mechanism is bi-directional and does not require adjustment or lubrication. Clutch to be inserted in roller tube at manufacturing. Clutch size to be selected by manufacturer based on fabric selection and shade size. Clutch size and spring assist upgrade available [SL10] [SL15] [SL20] [SL20 W/ SA] [SL30] [SL30 W/ SA].
 2. Roller Drive-End Location: [Right side of shade] [Left side of shade] [As indicated on Drawings] <Insert requirements>.
 3. Direction of Shade Roll: [Regular, from back of roller] [Reverse, from front of roller].
 4. Fabric-to-Roller Attachment: Removable spline system shall consist of a co-extruded PVC spline heat-welded to the shade fabric and inserted into an engineered channel on the roller tube. The spline system allows for adjustability on-site and ease in changing fabric bands in the field.
 5. Idler End: Constructed of high strength, fiberglass filled nylon with spring-loaded pin-end technology for wear resistance, smooth operation, and corrosion resistance.
- C. Mounting Hardware: Brackets, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.
 1. Thickness; 16 gauge.
 2. Material: Stamped steel.
 3. Description: [Non-fascia bracket, white powder coated] [Non-Fascia bracket, vanilla powder coated] [Non-Fascia bracket, gray powder coated] [Non-fascia bracket, black powder coated] [Fascia bracket, white powder coated] [Fascia bracket, vanilla powder coated] [Fascia bracket, gray powder coated] [Fascia bracket, black powder coated]
- D. Roller-Coupling Assemblies: Coordinated with operating mechanism and designed to couple up to three inline rollers into a linked shade system that is operable by one roller drive-end assembly. Linking system allows alignment of hem bars without removing shade from brackets by the Infinite Adjuster.
- E. Fabric Bands:
 1. Fabric Band Material: [Light-filtering fabric] [Light-blocking fabric] [PVC free] <Insert requirements>.
 2. Fabric Band Bottom (Hem) Bar: Extruded aluminum.
 - a. Type: Hem bars to be extruded aluminum in weight sufficient for proper shade operation. [Enclosed in heat sealed pocket of fabric band material] [Fabric wrapped with end caps] <Insert description>.
 - b. Color and Finish: [As selected by Architect from manufacturer's full range] <Insert color and finish>.
- F. Installation Accessories:
 1. Front Fascia: Aluminum extrusion that conceals front and underside of roller and operating mechanism and attaches to roller brackets without exposed fasteners.
 - a. Shape: L-shaped.
 - b. Height: Manufacturer's standard height required to conceal roller and shade when shade is fully open, but not less than [3.75 inches (95.25 mm)] [3.37 inches (85.73 mm)] <Insert dimension>.
 - c. Color and Finish: [White powder coated] [Vanilla powder coated] [Black powder coated] [Clear satin anodized] [Bronze powder coated].
 2. Fascia End Caps: Flat steel plate, adhered to fascia bracket using double-sided tape.
 - a. Shape: [3.75 inches (95.25 mm) by 4.125 inches (104.78 mm)] [3.37 inches (85.73 mm) by 3.125 inches (79.38 mm)]
 - b. Color and Finish: [White powder coated] [Vanilla powder coated]. [Gray powder coated] [Black powder coated]
 3. Exposed Pocket: Rectangular, extruded-aluminum 3-sided enclosure covering front, top and back of shade, with optional end caps, and optional removable bottom closure plate.
 - a. Height: 4.75 inches (121 mm) by 5 inches (127 mm).
 4. End cap: To cover exposed ends of pockets.

5. Recessed Shade Pocket: Rectangular, extruded aluminum enclosure designed for recessed ceiling installation; with front, top, and back formed as one piece, optional end caps, and optional removable bottom closure plate.
 - a. Height: 4.75 inches (121 mm) by 5 inches (127 mm) with 0.875 inch (22 mm) acoustical support.
6. Closure Plate and Closure Mount: Removable 2-inch (51 mm) or 3 inch (76 mm) closure plate designed for installation at bottom of site-constructed ceiling recess or pocket and for snap-in attachment to closure mount without fasteners.
 - a. Closure-Plate Width: [As indicated on Drawings] [2 inches (51 mm)] [3 inches (76 mm)] <Insert dimension>.
 - b. Closure mount: [With acoustical tile support] [Without acoustical tile support].
 - c. Color and Finish: [White powder coated] [Clear satin anodized] [Bronze powder coated].
7. Blackout Channels: Two-piece extruded aluminum with snap-fit design to hide fasteners without the use of plastic plugs or separate mounting tracks. With light seals and designed to eliminate light gaps at sides of shades
 - a. Single Side Channel: 1 inch (25 mm) by 2 inch (51 mm) extruded aluminum, to eliminate light gaps along the outer edges of shades.
 - b. Center Side Channel: 1 inch (25 mm) by 4 inch (102 mm) extruded aluminum, installed between adjoining shades.
 - c. Sill Channel: 1 inch (25 mm) by 2 inch (51 mm) extruded aluminum to eliminate the light gaps at bottoms of shades.
 - d. Color and Finish: [White powder coated] [Vanilla powder coated] [Black powder coated] [Clear satin anodized] [Bronze powder coated].

2.3 MANUALLY OPERATED SHADES WITH DUAL ROLLERS

- A. Chain-and-Clutch Operating Mechanisms: With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.
 1. Bead Chains: [No. 10 Stainless steel] [Molded plastic bead on nylon cord] <Insert description>.
 - a. Loop Length: [As required to operate full height of window shade] [As indicated on Drawings] <Insert length>.
 - b. Limit Stops: Provide upper and lower [round nickel-plated steel ball stops] [clear plastic, cylindrical ball stops].
 - c. Chain-Retainer Type: Locking-style chain retainer restricts the operation of the chain unless the chain retainer is properly mounted to a fixed surface such as a window frame, sill, or wall. Compliant with American National Standard for Safety of Corded Window Covering Products ANSI A100.1. Non-Locking P-Clip is not acceptable.
 - 1) Color: [White] [Vanilla] [Gray] [Brown] [Black].
 - d. Plastic Bead Chain Color: [White] [Vanilla] [Gray] [Brown] [Black].
 2. Spring Lift-Assist Mechanisms (SA): Manufacturer's standard for balancing roller-shade weight and lifting heavy roller shades.
 - a. Provide 6 lb (2.7 kg) lift assist for shades as recommended by manufacturer.
- B. Rollers: Extruded aluminum tubes engineered with a channel to accept fabric spline. The diameter and wall thickness to be determined by manufacturer based on fabric selection and shade size to provide minimal deflection and optimal performance.
 1. Dual-Roller Mounting Configuration: Offset, outside roller over and inside roller under.
 - a. Drive-End Location: [Right side of front shade, right side of back shade] [Left side of front shade, left side of back shade] [As indicated on Drawings] <Insert requirements>.
 - b. Direction of Fabric Band Roll: Regular, from back of roller.
 2. Fabric Band-to-Roller Attachment: Removable spline system shall consist of a co-extruded PVC spline heat-welded to the shade fabric and inserted into an engineered channel on the roller tube. The spline system allows for adjustability on-site and ease in changing fabric bands in the field.
- C. Mounting Hardware: Brackets, corrosion resistant and compatible with roller mounting configuration, roller assemblies, operating mechanisms, installation accessories, and installation locations and conditions indicated.
 1. Description: [Non-fascia bracket, white powder coated] [Non-fascia bracket, black powder coated] [Fascia bracket, white powder coated] [Fascia bracket, black powder coated].
- D. Front Fabric Bands:
 1. Fabric Band Material: [Light-filtering fabric] <Insert requirements>.
 2. Fabric Band Bottom (Hem) Bar: Extruded aluminum.



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- a. Type: Hem bars to be extruded aluminum in weight sufficient for proper shade operation. [Enclosed in heat-sealed pocket of fabric band material] [Fabric wrapped with end caps] <Insert description>.
- b. Color and Finish: [As selected by Architect from manufacturer's full range] <Insert color and finish>.

E. Back Fabric Bands:

1. Fabric Band Material: [Light-blocking fabric] <Insert requirements>.
2. Fabric Band Bottom (Hem) Bar: Extruded aluminum.
 - a. Type: Hem bars to be extruded aluminum in weight sufficient for proper shade operation. [Enclosed in heat-sealed pocket of fabric band material] [Fabric wrapped with end caps] <Insert description>.
 - b. Color and Finish: [As selected by Architect from manufacturer's full range] <Insert color and finish>.

F. Installation Accessories:

1. Front Fascia: Aluminum extrusion that conceals front and underside of roller and operating mechanism and attaches to installation brackets without exposed fasteners.
 - a. Shape: L-shaped.
 - b. Height: Manufacturer's standard height required to conceal roller and fabric band when shade is fully open, but not less than 7.5 inches (191 mm) by 2.25 inches (57 mm).
 - c. Color: [White powder coated] [Vanilla powder coated] [Black powder coated] [Clear satin anodized] [Bronze powder coated].
2. Fascia End Caps: Flat aluminum plate, adhered to fascia bracket using double-sided tape.
 - a. Shape: 7.3 inches (185 mm) by 7.71 inches (195 mm).
 - b. Color and Finish: [White powder coated] [Vanilla powder coated]. [Gray powder coated] [Black powder coated]
3. Exposed Shade Pocket: Rectangular, steel enclosure, covering front, top, and back. Powder coated white with riveted closure mount and removable closure plate.
 - a. Size: Manufacturer's standard size required to enclose roller and fabric band when shade is fully open, but not less than 7.5 inches (191 mm) by 8 inches (203 mm) [height indicated on Drawings] <Insert dimension>.
 - b. Closure Plate Width: [As indicated on drawings] [2 inches (51 mm)] [3 inches (76 mm)] [5 inches (127 mm)] <Insert dimension>.
4. Recessed Shade Pocket: Rectangular, steel enclosure covering front, top, and back. Powder coated white with riveted closure mount.
 - a. Size: Manufacturer's standard height required to enclose roller and fabric band when shade is fully open, but not less than 7.5 inches (191 mm) by 8 inches (203 mm).
 - b. Provide pocket with acoustical ceiling tile support at lower edge.
 - c. Closure Plate Width: [As indicated on drawings] [2 inches (51 mm)] [3 inches (76 mm)] [5 inches (127 mm)] <Insert dimension>.
5. Closure plate and Closure Mount: Removable aluminum closure plate attached at the bottom of closure mount installed to site-constructed ceiling recess or pocket.
 - a. Closure-Plate Width: [As indicated on Drawings] [2 inches (51 mm)] [3 inches (76 mm)] [5 inches (127 mm)] <Insert dimension>.
 - b. Closure Mount: [With acoustical tile support] [Without acoustical tile support].
 - c. Colors: [White powder coated] [Clear satin anodized] [Bronze powder coated].
6. Blackout Channels: Extruded aluminum channels with two-piece snap-fit-design to conceal fasteners. Provided with synthetic pile inserts designed to eliminate light gaps at sides of shades.
 - a. Side Size: 2 inches (51 mm) by 1 inch (25 mm) to eliminate light gaps at sides of shades.
 - b. Center Size: 4 inch (102 mm) by 1 inch (25 mm) to eliminate light gaps between adjoining shades.
 - c. Sill Size: 2 inches (51 mm) by 1 inch (25 mm) to eliminate light gaps at bottom edge of shades.
7. Installation Accessories Color and Finish: [White powder coated] [Vanilla powder coated] [Black powder coated] [Clear satin anodized] [Bronze powder coated] [As selected from manufacturer's full range] <Insert color and finish>.
8. <Insert color and finish>.

2.4

FABRIC BAND MATERIALS

- A. Fabric Band Material Flame-Resistance Rating: Comply with NFPA 701. Testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- B. Double-Take Reversible Twill Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 1. Source: Springs Window Fashions.
 2. Type: Woven polyester and PVC-coated polyester.
 3. Weave: Reversible twill.
 4. Roll Width: 98 inches (2489 mm).
 5. Orientation on Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 6. Openness Factor: [T100 - 1 percent] [T300 - 3 percent] [T500 - 5 percent].
 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- C. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 1. Source: Springs Window Fashions.
 2. Type: PVC-coated polyester, polyester.
 3. Weave: 1x1 Vertical Plain Weave.
 4. Roll Width: 118 inches (2997 mm).
 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 6. Openness Factor: 1 percent.
 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- D. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 1. Source: Springs Window Fashions.
 2. Type: Woven polyester and PVC-coated polyester.
 3. Weave: 2x2 Thin Basketweave.
 4. Roll Width: 98 inches (2489 mm).
 5. Orientation on Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 6. Openness Factor: [A1000 - 1 percent] [A300 - 3 percent] [A500 - 5 percent].
 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- E. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 1. Source: Springs Window Fashions.
 2. Type: PVC-coated polyester, polyester.
 3. Weave: 2x2 Thin Basketweave.
 4. Roll Width: 118 inches (2997 mm).
 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 6. Openness Factor: [R100 - 1 percent] [R300 - 3percent] [R500 - 5 percent].
 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- F. Crosshatch S Series Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 1. Source: Springs Window Fashions.
 2. Type: PVC-coated polyester, polyester.
 3. Weave: 2x2 Thin Basketweave.
 4. Roll Width: 118 inches (2997 mm).
 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 6. Openness Factor: [S100 - 1 percent] [S300 - 3 percent] [S500 - 5 percent] [S1000 - 10 percent].
 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- G. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 1. Source: Springs Window Fashions.
 2. Type: PVC-coated polyester, polyester.
 3. Weave: 2x2 Thick Basketweave.
 4. Roll Width: 118 inches (2997 mm).
 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.



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6. Openness Factor: [U100 - 1 percent] [U300 - 3 percent] [U500 - 5 percent].
 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- H. Aspect Light-Filtering Fabric: Woven fabric, stain and fade resistant.
1. Source: Springs Window Fashions
 2. Type: PVC-coated polyester, polyester.
 3. Weave: Jacquard
 4. Roll Width: 98 inches (2489 mm).
 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 6. Openness Factor: 4 percent.
 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- I. Vision Light-Filtering Fabric: Woven fabric, stain and fade resistant.
1. Source: Springs Window Fashions
 2. Type: PVC-coated polyester, polyester.
 3. Weave: Jacquard
 4. Roll Width: 98 inches (2489 mm).
 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 6. Openness Factor: 1 percent.
 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- J. Zenith Light-Filtering Fabric: Woven fabric, stain and fade resistant.
1. Source: Springs Window Fashions.
 2. Type: PVC-coated polyester, polyester.
 3. Weave: Jacquard
 4. Roll Width: 98 inches (2489 mm).
 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 6. Openness Factor: 4 percent.
 7. Color: [As indicated on Drawings] [Match Architect's sample] [As selected by Architect from manufacturer's full range] <Insert color>
- K. Factor M1400 Light-Filtering Fabric: Woven fabric, stain and fade resistant.
1. Source: Springs Window Fashions
 2. Type: 100% Polyester.
 3. Weave: Jacquard
 4. Roll Width: 98 inches (2489 mm).
 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 6. Openness Factor: 14 percent.
 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- L. Sheer Lines Light-Filtering Fabric: Woven fabric, stain and fade resistant.
1. Source: Springs Window Fashions.
 2. Type: 100% Polyester.
 3. Weave: Hospitality Sheer.
 4. Roll Width: 94.5 inches (2400 mm).
 5. Orientation of Fabric Band: [Vertical] [As indicated on Drawings] <Insert requirements>.
 6. Openness Factor: 14 percent.
 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- M. Nightfall Blackout Fabric, Light-Blocking Fabric: Opaque fabric, stain and fade resistant.
1. Source: Springs Window Fashions.

2. Type: Blackout, PVC-coated fiberglass with bonded PVC film.
3. Roll Width: 72 inches (1829 mm).
4. Orientation on Fiber Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
5. Features: [Washable] [Antistatic treatment] <Insert requirements>.
6. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

N. Blackout Fabric, Light-Blocking Fabric: Opaque fabric, stain and fade resistant.

1. Source: Springs Window Fashions.
2. Type: Blackout, Polyester, PVC free.
3. Roll Width: 122 inches (3099 mm).
4. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
5. Features: [Washable] [Antistatic treatment] <Insert requirements>.
6. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

2.5 ROLLER-SHADE FABRICATION

- A. Product Safety Standard: Fabricate roller shades to comply with ANSI - WCMA A 100.1, including requirements for flexible, chain-loop devices; lead content of components; and warning labels.
- B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F (23 deg C):
 1. Between (Inside) Jamb Installation: Width equal to jamb-to-jamb dimension of opening in which shade is installed, plus or minus 1/8 inch (3.1 mm). Length equal to head-to-sill or -floor dimension of opening in which shade is installed less 1/4 inch (6 mm), plus or minus 1/8 inch (3.1 mm).
 2. Outside of Jamb Installation: Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.
- C. Fabric Band Fabrication: Fabricate fabric bands without battens or seams to extent possible except as follows:
 1. Railroaded Materials: Railroad material where material roll width is less than the required width of fabric band and where indicated. Provide battens and seams as required by railroaded material to produce fabric bands with full roll-width panel(s) plus, if required, one partial roll-width panel located at top of fabric band.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, [accurate locations of connections to building electrical system,] and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROLLER-SHADE INSTALLATION

- A. Install roller shades level, plumb, and aligned with adjacent units per manufacturer's written instructions.
 1. Opaque Fabric Bands: Located so fabric band is not closer than [2 inches (51 mm)] <Insert dimension> to interior face of glass. Allow clearances for window operation hardware.
- B. Electrical Connections: Connect motor-operated roller shades to building electrical system. 3.3

ADJUSTING

- A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING AND PROTECTION

- A. Clean roller-shade surfaces after installation, per manufacturer's written instructions.
- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, ensuring that roller shades are without damage or deterioration at time of Substantial Completion.



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PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Motor-operated roller shades [with single rollers] [with dual rollers] [with coupled rollers] [with dual coupled rollers].
- B. Related Requirements:
 - 1. Section 061053 "Miscellaneous Rough Carpentry" for wood blocking and grounds for mounting roller shades and accessories.
 - 2. Section 079200 "Joint Sealants" for sealing the perimeters of installation accessories for light-blocking shades with a sealant.
 - 3. Section 092900 "Gypsum Board" for coordination with installation of shade pockets, closure, and related accessories.

1.3 ALLOWANCES

- A. Roller shades are part of [Window-Covering Allowance] <Insert name of allowance>.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions for roller shades.
- B. Shop Drawings: Show fabrication and installation details for roller shades, including shade materials, orientation to rollers, and seam and batten locations.
 - 1. Motor-Operated Shades: Include details of installation and diagrams for power, signal, and control wiring.
- C. Samples: For each exposed product and for each color and texture specified, 10 inches (250 mm) long.
- D. Samples for Initial Selection: For each type and color of fabric band material.
 - 1. Include Samples of accessories involving color selection.
- E. Samples for Verification: For each type of roller shade.
 - 1. Shade Material: Not less than [4 inches (102 mm)] [6 inches (152 mm)] square. Mark inside face of material if applicable.
 - 2. Roller Shade: Full-size operating unit, not less than 16 inches (400 mm) wide by 36 inches (900 mm) long for each type of roller shade indicated.
 - 3. Installation Accessories: Full-size unit, not less than 6 inches (152 mm) long.
- F. Roller-Shade Schedule: Use same designations indicated on Drawings.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Certificates: For each type of fabric band material, signed by product manufacturer.
- C. Product Test Reports: For each type of fabric band material, for tests performed by [manufacturer and witnessed by a qualified testing agency] [a qualified testing agency].

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roller shades to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Roller Shades: Full-size units equal to 5 percent of quantity installed for each size, color, and fabric band material indicated, but no fewer than [two] <Insert number> units.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.
 - 1. Installer shall be qualified to install specified products by prior experience and approved by Springs Window Fashions LLC.
 - 2. Installer shall be responsible for acceptable installation in accordance with instructions published by Springs Window Fashions LLC.
- B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
 - 1. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roller shades in factory packages, marked with manufacturer, product name, and location of installation using same designations indicated on Drawings.

1.10 FIELD CONDITIONS

- A. Environmental Limitations: Do not install roller shades until construction and finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operating hardware of operable glazed units through entire operating range. Notify Architect of installation conditions that vary from Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Springs Window Fashions
- B. Source Limitations: Obtain roller shades from single source from single manufacturer.

2.2 MOTOR-OPERATED, SINGLE-ROLLER SHADES

- A. Motorized Operating System: Provide factory-assembled, shade-operator system of size and capacity and with features, characteristics, and accessories suitable for conditions indicated, complete with electric motor and factory-prewired motor controls, power disconnect switch, enclosures protecting controls and operating parts, and accessories required for reliable operation without malfunction. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
 - 1. All motors to be 100 percent tested in the final product by manufacturer.
 - 2. Electrical Components: Comply with UL 325 tip-to-tip, CSA, and cUL standards.
- A. Motor & Controls Manufacturer's Qualifications:
 - 1. Minimum of 10 years experience manufacturing tubular motors and natural light control systems.
 - 2. Motor manufacturer must be ISO 9001 certified.
 - 3. Minimum 100 million motors manufactured.



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- B. Quality Control for Motors:
 1. Motors shall have a life expectancy of 10 years or more.
 2. Motors shall be tested and approved by the major global safety testing laboratories UL, CUL, TUV, ETL, CE, VDE.
 3. Motor manufacturer shall test 100 percent of motors for defects in wiring and operation before leaving factory
 4. Motors must undergo an extensive quality assurance process including testing in:
 - a. Assembled motor test design specifications when installed in various end products.
 - b. Product installation testing.
 - c. Product safety tests.
 - d. Product performance tests.
 - e. Life cycle testing for endurance and reliability.
 - f. Embedded software tests.
 - g. Heat and fire resistance tests.
 - h. Water and oxidation resistance tests.
 - i. Climate tests (temperature and humidity).
 - j. Acoustic tests (sound level and quality).
 - k. Radio frequency tests (transmission and reception).
 - l. Electromechanical capability (CEM).
3. Electric Motor: [Standard Wired Motor] <Insert description> tubular, enclosed in roller.
 - a. Standard Wired Motor: Tubular asynchronous motor, built-in reversible capacitor, brushless 110V AC (60 Hz) single phase motor, thermally protected, permanently lubricated gear-box, maintenance free, minimum 6 NM torque lifting capacity. Motors must have rapid adjustment capabilities.
 - 1) To be fitted inside aluminum roller tube with appropriate adaptors for smooth operation. Tubular, asynchronous operator, built in reversible capacitor, brushless, 120V AC, 60 Hz, single phase motor, thermally protected, permanently lubricated gearbox, maintenance free.
 - 2) Upper and lower limits set by rapid programming button on motor head
 - 3) Solenoid disc brake automatically engages when power is cut.
 - 4) Unit speed shall range from 20 to 28 rpm and draw between 0.7 to 2.1 amp as required by design.
 - 5) Equipped with [18 in (457 mm) motor lead with quick disconnect] [24 ft (7.3 m) motor lead with quick disconnect] of power cord.
 - 6) Electrical components are tested to withstand a 15 Kilo volt electrostatic discharge without damage or loss of memory.
 - 7) Individual Switching Capabilities: [Single Motor Décor Maintained switch control] [Two Motor Décor Maintained switch control] [IGC-II Individual controller with 3-button switch] [Momentary keyed switch].
 - a) Color: [White] [Ivory].
 - 8) Multi-motor group controllers:
 - a) GCS-II, Master group controller: Master/Group operation only, fuse protected, low voltage switching, and capable of interfacing with third party systems using dry contacts, operated using a [décor style switch, white color] [décor style switch, ivory color] [momentary keyed switch, ivory color].
 - b) IGC-II/3N1 Individual and Group Controller: Individually fuse protected motor controls, capable of operating individual motors as well as groups of motors. Able to be operated by third party automation systems using dry contacts. Operated using a [3-button switch] [6-button switch] in [white] [ivory] color.
 - c) animeo Individual and Group Controller: Individually fuse protected motor control, using cage clamp wire connections. provides 1 custom set intermediate position, operated using a [3-button switch] [6-button switch] in [white] [ivory] color
- B. Rollers: Extruded-aluminum tubes engineered with a channel to accept fabric spline. The diameter and wall thickness to be determined by manufacturer based on fabric selection and shade size to provide minimal deflection and optimal performance.
 1. Motor Drive-End: Star-head motor attached and locked into place by spring ring.
 2. Roller Drive-End Location: [Right side of shade] [Left side of shade] [As indicated on Drawings] <Insert requirements>.
 3. Direction of Fabric Band Roll: [Regular, from back of roller] [Reverse, from front of roller].
 4. Fabric Band-to-Roller Attachment: Removable spline system shall consist of Z-shaped rigid PVC spline heat-welded to the shade fabric and inserted into an engineered channel on the roller tube. The spline system allows for adjustability on-site and ease in changing fabric bands in the field.
 5. Idler: Retractable, spring-loaded steel rod, mounted to six-sided idle-end bracket with sealed ball bearings for quiet operation.
- C. Mounting Hardware: Brackets or end caps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated. Unpainted brackets are not acceptable.
 1. Idle-ends must contain ball bearing surfaces to reduce friction and noise during shade operation.
 2. Idle-end brackets must provide leveling feature to assure proper tracking of fabric on roller tube.
- D. Roller-Coupling Assemblies: Coordinated with operating mechanism and designed to couple up to three inline rollers that are operated by one roller drive-end assembly. Intermediate brackets must contain ball bearing surfaces to reduce friction and noise during shade operation. Removable tube connectors are not acceptable. Coupling assembly must contain drive-end and receiving ends mounted into the roller tube. Drive-end units must be six-sided steel rod that extends and retracts through intermediate brackets into receiver units. Intermediate brackets must provide leveling feature to ensure proper tracking of fabric on roller tube.
- E. Fabric Bands:
 1. Fabric Band Material: [Light-filtering fabric] [Light-blocking fabric] [PVC free] <Insert requirements>.
 2. Fabric Band Bottom (Hem) Bar: Extruded aluminum.
 - a. Type: Hem bars to be extruded aluminum in weight sufficient for proper shade operation. [Enclosed in heat-sealed pocket of fabric band material] [Fabric wrapped with end caps] <Insert description>.
 - b. Color and Finish: [As selected by Architect from manufacturer's full range] <Insert color and finish>.
- F. Installation Accessories:
 1. Front Fascia: Aluminum extrusion that conceals front and underside of roller and operating mechanism and attaches to roller end brackets without exposed fasteners.
 - a. Shape: L-shaped.
 - b. Height: Manufacturer's standard height required to conceal roller and fabric band when shade is fully open, but not less than [4.25 inches (108 mm)] [7.5 inches (191 mm)] <Insert dimension>.
 - c. Color and Finish: [White powder coated] [Vanilla powder coated] [Black powder coated] [Clear satin anodized] [Bronze powder coated].
 2. Exposed Pocket: Rectangular, extruded aluminum 3-sided enclosure covering front, top and back, with optional end caps, and optional removable bottom closure plate.
 - a. Height: 4.75 inches (121 mm) by 5 inches (127 mm).
 3. End cap: To cover exposed ends of pockets.
 4. Recessed Shade Pocket: Rectangular, extruded aluminum enclosure designed for recessed ceiling installation; with front, top, and back formed as one piece, optional end caps, and optional removable bottom closure plate.
 - a. Height: 4.75 inches (121 mm) by 5 inches (127 mm) with 0.875 inch (22 mm) acoustical support.
 5. Closure Plate and Closure Mount: Removable 2 inch (51 mm) or 3 inch (76 mm) closure plate designed for installation at bottom of site-constructed ceiling recess or pocket and for snap-in attachment to closure mount without fasteners.
 - a. Closure-Plate Width: [As indicated on Drawings] [2 inches (51 mm)] [3 inches (76 mm)] <Insert dimension>.
 - b. Closure Mount: [With acoustical tile support] [Without acoustical tile support].
 - c. Color and Finish: [White powder coated] [Clear satin anodized] [Bronze powder coated].
 6. Blackout Channels: Extruded aluminum channels with two piece snap design to conceal fasteners. Provide synthetic pile inserts designed to eliminate light gaps at sides of shades.
 - a. Side Size: 2 inch (51 mm) by 1 inch (25 mm) to eliminate light gaps at sides of shades.
 - b. Center Size: 4 inch (102 mm) by 1 inch (25 mm) to eliminate light gaps between adjoining shades.
 - c. Sill Size: 2 inch (51 mm) by 1 inch (25 mm) to eliminate light gaps at bottom edge of shades.
 7. Installation Accessories Color and Finish: [White powder coated] [Vanilla powder coated] [Black powder coated] [Clear satin anodized] [Bronze powder coated] [As selected from manufacturer's full range] <Insert color and finish>.



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2.3 MOTOR-OPERATED, DUAL-ROLLER SHADES

- A. Motorized Operating System: Provide factory-assembled, shade-operator system of size and capacity and with features, characteristics, and accessories suitable for conditions indicated, complete with electric motor and factory-prewired motor controls, power disconnect switch, enclosures protecting controls and operating parts, and accessories required for reliable operation without malfunction. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
1. All motors to be 100 percent tested in the final product by manufacturer.
 2. Electrical Components: Comply with UL 325 tip-to-tip, CSA, and cUL standards.
- A. Motor & Controls Manufacturer's Qualifications:
1. Minimum of 10 years experience manufacturing tubular motors and natural light control systems.
 2. Motor manufacturer must be ISO 9001 certified.
 3. Minimum 100 million motors manufactured.
- B. Quality Control for Motors:
1. Motors shall have a life expectancy of 10 years or more.
 2. Motors shall be tested and approved by the major global safety testing laboratories UL, CUL, TUV, ETL, CE, VDE.
 3. Motor manufacturer shall test 100 percent of motors for defects in wiring and operation before leaving factory
 4. Motors must undergo an extensive quality assurance process including testing in:
 - a. Assembled motor test design specifications when installed in various end products.
 - b. Product installation testing.
 - c. Product safety tests.
 - d. Product performance tests.
 - e. Life cycle testing for endurance and reliability.
 - f. Embedded software tests.
 - g. Heat and fire resistance tests.
 - h. Water and oxidation resistance tests.
 - i. Climate tests (temperature and humidity).
 - j. Acoustic tests (sound level and quality).
 - k. Radio frequency tests (transmission and reception).
 - l. Electromechanical capability (CEM).
4. Electric Motor: [Standard Wired Motor] <Insert description> tubular, enclosed in roller.
- a. Standard Wired Motor: Tubular asynchronous motor, built-in reversible capacitor, brushless 110V AC (60 Hz) single phase motor, thermally protected, permanently lubricated gear-box, maintenance free, minimum 6 Nm torque lifting capacity. Motors must have rapid adjustment capabilities.
 - 1) To be fitted inside aluminum roller tube with appropriate adaptors for smooth operation. Tubular, asynchronous operator, built in reversible capacitor, brushless, 120V AC, 60 Hz, single phase motor, thermally protected, permanently lubricated gearbox, maintenance free.
 - 2) Upper and lower limits set by rapid programming button on motor head
 - 3) Solenoid disc brake automatically engages when power is cut.
 - 4) Unit speed shall range from 20 to 28 rpm and draw between 0.7 to 2.1 amp as required by design.
 - 5) Equipped with [18 in (457 mm) motor lead with quick disconnect] [24 ft (7.3 m) motor lead with quick disconnect] of power cord.
 - 6) Electrical components are tested to withstand a 15 Kvolt electrostatic discharge without damage or loss of memory.
 - 7) Individual Switching Capabilities: [Single Motor Décor Maintained switch control] [Two Motor Décor Maintained switch control] [IGC-II Individual controller with 3-button switch] [Momentary keyed switch].
 - a) Color: [White] [Ivory].
 - 8) Multi-motor group controllers:
 - a) GCS-II, Master group controller: Master/Group operation only, fuse protected, low voltage switching, and capable of interfacing with third party systems using dry contacts, operated using a [décor style switch, white color] [décor style switch, ivory color] [momentary keyed switch, ivory color].
 - b) IGC-II/3N1 Individual and Group Controller: Individually fuse protected motor controls, capable of operating individual motors as well as groups of motors. Able to be operated by third party automation systems using dry contacts. Operated using a [3-button switch] [6-button switch] in [white] [ivory] color.
 - c) animeo Individual and Group Controller: Individually fuse protected motor control, using cage clamp wire connections. provides 1 custom set intermediate position, operated using a [3-button switch] [6-button switch] in [white] [ivory] color
 - B. Rollers: Extruded-aluminum tubes engineered with a channel to accept fabric spline. The diameter and wall thickness to be determined by manufacturer based on fabric selection and shade size to provide minimal deflection and optimal performance.
1. Dual-Roller Mounting Configuration: [Offset, outside shade over and inside shade under] <Insert requirements>.
 - a. Drive-End Location: [Right side of front shade, right side of back shade] [Left side of front shade, left side of back shade] [As indicated on Drawings] <Insert requirements>.
 - b. Direction of Fabric Band Roll: Regular, from back of roller.
 2. Fabric Band-to-Roller Attachment: Removable spline system shall consist of Z-shaped rigid PVC spline heat-welded to the shade fabric and inserted into an engineered channel on the roller tube. The spline system allows for adjustability on-site and ease in changing fabric bands in the field. <Insert description>.
- C. Mounting Hardware: Brackets or end caps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated. Unpainted brackets are not acceptable.
1. Idle-ends must contain ball bearing surfaces to reduce friction and noise in shade operation.
 2. Idle-end brackets must provide leveling feature to ensure proper tracking of fabric on roller tube.
- D. Roller-Coupling Assemblies: Coordinated with operating mechanism and designed to couple up to ten inline rollers that are operated by one roller drive-end assembly. Intermediate brackets must contain ball bearing surfaces to reduce friction and noise in shade operation. Removable tube connectors are not acceptable. Coupling assembly must contain drive-end and receiving ends mounted into the roller tube. Drive-end units must be six-sided steel that extends and retracts through intermediate brackets into receiver units. Intermediate brackets must provide leveling feature to ensure proper tracking of fabric on roller tube.
- E. Front Fabric Bands:
1. Fabric Band Material: [Light-filtering fabric] <Insert requirements>.
 2. Fabric Band Bottom (Hem) Bar: Extruded aluminum.
 - a. Type: Hem bars to be extruded aluminum in weight sufficient for proper shade operation. [Enclosed in heat-sealed pocket of fabric band material] [Fabric wrapped with end caps] <Insert description>.
 - b. Color and Finish: [As selected by Architect from manufacturer's full range] <Insert color and finish>.
- F. Back Fabric Bands:
1. Fabric Band Material: [Light-blocking fabric] <Insert requirements>.
 2. Fabric Band Bottom (Hem) Bar: Extruded aluminum.
 - a. Type: Hem bars to be extruded aluminum in weight sufficient for proper shade operation. [Enclosed in heat-sealed pocket of fabric band material] [Fabric wrapped with end caps] <Insert description>.
 - b. Color and Finish: [As selected by Architect from manufacturer's full range] <Insert color and finish>.
- G. Installation Accessories:
1. Front Fascia: Aluminum extrusion that conceals front and underside of roller and operating mechanism and attaches to installation brackets without exposed fasteners.
 - a. Shape: L-shaped.
 - b. Height: Manufacturer's standard height required to conceal roller and fabric band when shade is fully open, but not less than 7.5 inches (191 mm) by 2.25 inches (57 mm).
 - c. Color and Finish: [White powder coated] [Vanilla powder coated] [Black powder coated] [Clear satin anodized] [Bronze powder coated].
 2. Fascia End Caps: Flat aluminum plate, adhered to fascia bracket using double-sided tape.
 - a. Shape: 7.3 inches (185 mm) by 7.71 inches (196 mm).



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- b. Color and Finish: [White powder coated] [Vanilla powder coated]. [Gray powder coated] [Black powder coated]
- 3. Exposed Pocket: Rectangular, extruded aluminum 3-sided enclosure covering front, top and back, with optional end caps, and optional removable bottom closure plate.
 - a. Height: 4.75 inches (121 mm) by 5 inches (127 mm).
 - 4. End cap: To cover exposed ends of pockets.
 - 5. Recessed Shade Pocket: Rectangular, extruded aluminum enclosure designed for recessed ceiling installation; with front, top, and back formed as one piece, optional end caps, and optional removable bottom closure plate.
 - a. Height: 4.75 inches (121 mm) by 5 inches (127 mm) with 0.875 inch (22 mm) acoustical support.
 - 6. Closure Plate and Closure Mount: Removable 2-inch (51 mm) or 3-inch (76 mm) closure plate designed for installation at bottom of site-constructed ceiling recess or pocket and for snap-in attachment to closure mount without fasteners.
 - d. Closure-Plate Width: [As indicated on Drawings] [2 inches (51 mm)] [3 inches (76 mm)] <Insert dimension>.
 - e. Closure Mount: [With acoustical tile support] [Without acoustical tile support].
 - f. Color and Finish: [White powder coated] [Clear satin anodized] [Bronze powder coated].
 - 7. Blackout Channels: Extruded aluminum channels with two-piece snap design to conceal fasteners. Provide synthetic pile inserts designed to eliminate light gaps at sides of shades.
 - d. Side Size: 2 inch (51 mm) by 1 inch (25 mm) to eliminate light gaps at sides of shades.
 - e. Center Size: 4 inch (102 mm) by 1 inch (25 mm) to eliminate light gaps between adjoining shades.
 - f. Sill Size: 2 inch (51 mm) by 1 inch (25 mm) to eliminate light gaps at bottom edge of shades.
 - 8. Installation Accessories Color and Finish: [White powder coated] [Vanilla powder coated] [Black powder coated] [Clear satin anodized] [Bronze powder coated] [As selected from manufacturer's full range] <Insert color and finish>.

2.4 FABRIC BAND MATERIALS

- A. Fabric Band Material Flame-Resistance Rating: Comply with NFPA 701. Testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- B. Double-Take Reversible Twill Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Source: Springs Window Fashions.
 - 2. Type: Woven polyester and PVC-coated polyester.
 - 3. Weave: Reversible twill.
 - 4. Roll Width: 98 inches (2489 mm).
 - 5. Orientation on Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 - 6. Openness Factor: [T100 - 1 percent] [T300 - 3 percent] [T500 - 5 percent].
 - 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- C. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Source: Springs Window Fashions.
 - 2. Type: PVC-coated polyester, polyester.
 - 3. Weave: 1x1 Vertical Plain Weave.
 - 4. Roll Width: 118 inches (2997 mm).
 - 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 - 6. Openness Factor: 1 percent.
 - 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- D. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Source: Springs Window Fashions.
 - 2. Type: Woven polyester and PVC-coated polyester.
 - 3. Weave: 2x2 Thin Basketweave.
 - 4. Roll Width: 98 inches (2489 mm).
 - 5. Orientation on Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 - 6. Openness Factor: [A1000 - 1 percent] [A300 - 3 percent] [A500 - 5 percent].

- 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- E. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Source: Springs Window Fashions.
 - 2. Type: PVC-coated polyester, polyester.
 - 3. Weave: 2x2 Thin Basketweave.
 - 4. Roll Width: 118 inches (2997 mm).
 - 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 - 6. Openness Factor: [R100 - 1 percent] [R300 - 3 percent] [R500 - 5 percent].
 - 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- F. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Source: Springs Window Fashions.
 - 2. Type: PVC-coated polyester, polyester.
 - 3. Weave: 2x2 Thin Basketweave.
 - 4. Roll Width: 118 inches (2997 mm).
 - 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 - 6. Openness Factor: [S100 - 1 percent] [S300 - 3 percent] [S500 - 5 percent] [S1000 - 10 percent].
 - 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- G. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Source: Springs Window Fashions.
 - 2. Type: PVC-coated polyester, polyester.
 - 3. Weave: 2x2 Thick Basketweave.
 - 4. Roll Width: 118 inches (2997 mm).
 - 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 - 6. Openness Factor: [U100 - 1 percent] [U300 - 3 percent] [U500 - 5 percent].
 - 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- H. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Source: Springs Window Fashions
 - 2. Type: PVC-coated polyester, polyester.
 - 3. Weave: Jacquard
 - 4. Roll Width: 98 inches (2489 mm).
 - 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 - 6. Openness Factor: 4 percent.
 - 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- I. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Source: Springs Window Fashions
 - 2. Type: PVC-coated polyester, polyester.
 - 3. Weave: Jaquard
 - 4. Roll Width: 98 inches (2489 mm).
 - 5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
 - 6. Openness Factor: 1 percent.
 - 7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.
- J. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
 - 1. Source: Springs Window Fashions.
 - 2. Type: PVC-coated polyester, polyester.
 - 3. Weave: Jacquard
 - 4. Roll Width: 98 inches (2489 mm).



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5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
6. Openness Factor: 4 percent.
7. Color: [As indicated on Drawings] [Match Architect's sample] [As selected by Architect from manufacturer's full range] <Insert color>

K. Light-Filtering Fabric: Woven fabric, stain and fade resistant.

1. Source: Springs Window Fashions
2. Type: 100% Polyester.
3. Weave: Jacquard
4. Roll Width: 98 inches (2489 mm).
5. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
6. Openness Factor: 14 percent.
7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

L. Sheer Lines Light-Filtering Fabric: Woven fabric, stain and fade resistant.

1. Source: Springs Window Fashions.
2. Type: 100% Polyester.
3. Weave: Hospitality Sheer.
4. Roll Width: 94.5 inches (2400 mm).
5. Orientation of Fabric Band: [Vertical] [As indicated on Drawings] <Insert requirements>.
6. Openness Factor: 14 percent.
7. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

M. Blackout Fabric, Light-Blocking Fabric: Opaque fabric, stain and fade resistant.

1. Source: Springs Window Fashions.
2. Type: Blackout, PVC-coated fiberglass with bonded PVC film.
3. Roll Width: 72 inches (1829 mm).
4. Orientation on Fiber Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
5. Features: [Washable] [Antistatic treatment] <Insert requirements>.
6. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

N. Blackout Fabric, Light-Blocking Fabric: Opaque fabric, stain and fade resistant.

1. Source: Springs Window Fashions.
2. Type: Blackout, Polyester, PVC free.
3. Roll Width: 122 inches (3099 mm).
4. Orientation of Fabric Band: [Vertical] [Railroaded] [As indicated on Drawings] <Insert requirements>.
5. Features: [Washable] [Antistatic treatment] <Insert requirements>.
6. Color: [As indicated on Drawings] [As selected by Architect from manufacturer's full range] <Insert color>.

2.5 ROLLER-SHADE FABRICATION

- A. Product Safety Standard: Fabricate roller shades to comply with ANSI - WCMA A 100.1, including requirements for flexible, chain-loop devices; lead content of components; and warning labels.
- B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F (23 deg C):
 1. Between (Inside) Jamb Installation: Width equal to jamb-to-jamb dimension of opening in which shade is installed, plus or minus 1/8 inch (3.1 mm). Length equal to head-to-sill or -floor dimension of opening in which shade is installed less 1/4 inch (6 mm), plus or minus 1/8 inch (3.1 mm).
 2. Outside of Jamb Installation: Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.

C. Fabric Band Fabrication: Fabricate fabric bands without battens or seams to extent possible except as follows:

1. Railroaded Materials: Railroad material where material roll width is less than the required width of fabric band and where indicated. Provide battens and seams as required by railroaded material to produce fabric bands with full roll-width panel(s) plus, if required, one partial roll-width panel located at top of fabric band.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, [accurate locations of connections to building electrical system,] and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROLLER-SHADE INSTALLATION

- A. Install roller shades level, plumb, and aligned with adjacent units per manufacturer's written instructions.
 1. Opaque Fabric Bands: Located so fabric band is not closer than [2 inches (51 mm)] <Insert dimension> to interior face of glass. Allow clearances for window operation hardware.
- B. Electrical Connections: Connect motor-operated roller shades to building electrical system. 3.3

ADJUSTING

- A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING AND PROTECTION

- A. Clean roller-shade surfaces after installation, per manufacturer's written instructions.
- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, ensuring that roller shades are without damage or deterioration at time of Substantial Completion.
- C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

3.5 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain motor-operated roller shades.

