

ADDENDUM NO. 1

TO

RED CLAY CONSOLIDATED SCHOOL DISTRICT  
LEWIS ELEMENTARY SCHOOL  
BID PACKAGE 'A'

This addendum is hereby made part of the Project Manual and Drawings dated 20 January 2017.

The Project Manual and Drawings shall be supplemented or amended as specified herein.

This Addendum contains changes to the requirement of the Project Manual. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of a paragraph of the Project Manual, the remainder of the paragraph affected shall remain in force. Added information is shown as **Bold**, deleted information is shown as ~~striketrough~~.

This Addendum contains changes to the requirement of the Drawings. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of any drawing, the remainder of the drawing affected shall remain in force. Added, deleted or revised information is shown as "clouded".

The conditions and terms of the basic Contract Documents shall govern work unless otherwise described in this Addendum. Whenever the conditions of work, and the quality or quantity of materials, or workmanship are not fully described in this Addendum, the conditions of work included in the basic Contract Documents for similar items of work shall apply to the work described in this Addendum.

If no similar items of work are included in the basic Contract Document, the best quality of material and workmanship shall apply and all work shall be subject to the written acceptance of the Architect.

**THE BID OPENING DATE HAS CHANGED. BIDS WILL BE RECEIVED AT THE RED CLAY CONSOLIDATED SCHOOL DISTRICT OFFICE, 1798 LIMESTONE ROAD, WILMINGTON, DE 19804 UNTIL 3:00 PM LOCAL TIME ON WEDNESDAY, MARCH 22, 2017.**

**PRE-BID MEETING SIGN IN SHEET DATED 22 FEBRUARY 2017 IS ATTACHED HERETO.**

**THE LAST DAY FOR QUESTIONS IS WEDNESDAY, 15 MARCH 2017.**

**BIDDERS ARE ADVISED THAT THE ONLY RELIABLE SOURCE OF DOCUMENTS FOR THIS SOLICITATION IS THE EDIS FTP SITE. BIDDERS THAT RELY ON INFORMATION PUBLISHED ON ANY OTHER COMMERCIAL WEBSITES DO SO AT THEIR OWN RISK.**

Addendum No. 1 – Consists of the following:

- I. General Information / Clarifications
- II. Response to Bidders' Questions
- III. Revisions to Project Manual/Specifications
- IV. Revisions to Drawings

**I. GENERAL INFORMATION / CLARIFICATIONS**

- A. At drawing A6.2, casework manufacturer TMI is specified and TMI model numbers are noted on each type of casework. This is intended as a design basis. Approved substitutions for shop fabricated casework are acceptable.
- B. The mechanical demolition shown on M8.1 (base bid) and M8.2 (alternate #1) is identical work.
- C. Contractor to disregard all references to painting on the contract. Owner will paint entire building.

**II. RESPONSE TO BIDDERS' QUESTIONS**

- A. A copy of the response to RFI No. 1 & 2 is attached hereto.

**III. REVISIONS TO PROJECT MANUAL/SPECIFICATIONS**

- A. **COVER PAGE** - Make the following pen and ink changes to this section and annotate these changes as Addendum No. 1.
  - 1. DELETE the date 20 January 2016 and INSERT new date **20 January 2017**.
- B. **SECTION 000110 – TABLE OF CONTENTS** - Make the following pen and ink changes to this section and annotate these changes as Addendum No. 1.
  - 1. DELETE Section 047200 Cast Stone Masonry in entirety.
  - 2. DELETE Section 099000 Painting and Coating in entirety.
  - 3. DELETE Section 101400 Signage in entirety.
- C. **SECTION 002113 - INSTRUCTIONS TO BIDDERS**
  - 1. DELETE pages 002113-1 through 002113-13 in their entirety. INSERT revised pages 002113-1 through 002113-13 annotated Addendum No. 1.
- D. **SECTION 004100 – BID FORMS**
  - 1. **Contract A-01 Carpentry & General Works**
    - a) DELETE pages 004100-1 through 004100-7 in their entirety. INSERT revised pages 004100-1 through 004100-8 annotated Addendum No. 1. This DELETED the Painting Subcontractor on page 004100-4. This added the Affidavit of Employee Drug Testing Program Form.
  - 2. **Contract A-02 Mechanical & Plumbing**
    - a) DELETE pages 004100-1 through 004100-7 in their entirety. INSERT revised pages 004100-1 through 004100-8 annotated Addendum No. 1. This added the Affidavit of Employee Drug Testing Program Form.
  - 3. **Contract A-03 Electrical & Fire Alarm**
    - a) DELETE pages 004100-01 through 004100-7 in their entirety. INSERT revised

pages 004100-1 through 004100-8 annotated Addendum No. 1. This added the Affidavit of Employee Drug Testing Program Form.

**E. SECTION 011100 – SUMMARY OF WORK**

1. DELETE pages 011100-1 through 011100-27 in their entirety. INSERT revised pages 011100-1 through 011100-17 annotated Addendum No. 1.

**F. SECTION 012300 – ALTERNATES - Make the following pen and ink changes to this section and annotate this change as Addendum No. 1.**

1. DELETE "Paint GWB walls" on page 012300-2.

**IV. REVISIONS TO DRAWINGS**

**A. Drawing A3.1 Basement Floor Plan – DELETE this sheet in its entirety. INSERT revised sheet A3.1 annotated Addendum No. 1, dated 2 March 2017.**

1. At Toilet 208T, Existing toilet partition to remain.
2. At Toilet 210T, change note to read as follows: "At room 210T, replace mirror with Bobrick B-165 2436 with reflective surface mounted at 3'-4" A.F.F."
3. At Construction Keynote "C-16", change "match existing ceramic tile and VCT floor finish at infill" to read "install one row (6" wide) of ceramic tile flooring and one row (12" wide) of VCT floor finish. Color by architect from manufacturer's standard color chart."

**B. Drawing A3.2 First Floor Plan - DELETE this sheet in its entirety. INSERT revised sheet A3.2 annotated Addendum No. 1, dated 2 March 2017.**

1. At Construction Keynote "C-13", change "Remove (2) existing recessed floor closers" to "Remove (4) existing recessed floor closers".
2. At Construction Keynote "C-15", change "...in existing grid to remain" to "Remove and reinstall existing grid."
3. At Construction Keynote "C-12", deleted note and replaced with "At Vestibule at main entrance, remove all existing ceramic tile flooring and install new Flexco Flextuft rubber tile – color by architect, and rubber base throughout vestibule.
4. At existing Office 105, omit casework and sink shown in error on existing floor plan.

**C. Drawing A3.3 Alternate #1 Plans** - DELETE this sheet in its entirety. INSERT revised sheet A3.3 annotated Addendum No. 1, dated 2 March 2017.

**1. Plan "1/3.3"**

- a) At existing Office 105, omit casework and sink shown in error on existing floor plan.
- b) Omit note at "A5T" regarding wall tile demo.
- c) Add "D-2" tag to exist. toilet room walls.
- d) Add existing marker board demo.
- e) Clarify demo. at entrance storefronts.
- f) At Demolition Keynote "D-6", delete keynote (not applicable) and add new Keynote "D-6" and tags showing location of marker board demo. work on Demo Plan.

**2. Plan "3/3.3"**

- a) Add mailbox casework. Reconfigure partitions and casework to add more circulation space at mailboxes.
- b) Add (4) tackboards.
- c) Add roller shades at "Principal 107".
- d) Add clarification note at exterior entrance storefront.
- e) Add "C-6" tag at interior entrance storefront.
- f) At Construction Keynote "C-2", change "witch" to "thickness".
- g) Add "C-2" tag to new CMU opening to new admin. area from Vestibule.

**3. Plan "4/3.3"**

- a) Add CMU infill note at ductwork demo in corridor wall.

**4. Plan "5/3.3"**

- a) Change carpet flooring in new Faculty Room to VCT.
- b) Change carpet flooring at new entrance lobby to VCT.
- c) Add tags for new and reconfigured casework.

**D. Drawing A6.1 Storefront Elevations** - DELETE this sheet in its entirety. INSERT revised sheet A6.1 annotated Addendum No. 1, dated 2 March 2017.

1. Door Schedule - At Door D 109, change door type to "D" and change frame type to "Exist."

**E. Drawing A6.2 Alternate #1 Details** - DELETE this sheet in its entirety. INSERT revised sheet A6.2 annotated Addendum No. 1, dated 2 March 2017.

1. Added mailbox casework
2. Reconfigured "4/6.2".
3. Deleted "5/6.2".
4. Change to Soffit Detail title number.

- F. Drawing M8.2 First Floor Mechanical Plan** - DELETE this sheet in its entirety. INSERT revised sheet M8.2 annotated Addendum No. 1, dated 2 March 2017.
1. At "A6T Toilet", see note regarding exist. exhaust fan demolition.
- G. Drawing M8.3 Roof Mechanical Plan** - DELETE this sheet in its entirety. INSERT revised sheet M8.3 annotated Addendum No. 1, dated 2 March 2017.
1. Added "Typ. Pitch Pocket Detail".
  2. Added note at new unit "HP-1".
- H. Drawing M8.4 Roof Mechanical Plan – Alternate #1** - DELETE this sheet in its entirety. INSERT revised sheet M8.4 annotated Addendum No. 1, dated 2 March 2017.
1. Added roof framing details.
  2. Added note at new unit "HP-1 Alt. #1".
- I. Drawing E9.6 First Floor Electrical Plan – Alternate #1** - DELETE this sheet in its entirety. INSERT revised sheet E9.6 annotated Addendum No. 1, dated 2 March 2017.
1. Added Electrical Demolition note ED-1 "Baseboard Heater" in A6 Classroom.
  2. Added Electrical Demolition notes ED-5, ED-6, ED-7, ED-8 & ED-9.
- J. Drawing E9.8 First Floor Electrical Lighting Plan – Alternate #1** - DELETE this sheet in its entirety. INSERT revised sheet E9.8 annotated Addendum No. 1, dated 2 March 2017
1. Changes to "First Floor Electrical Lighting Plan – Alternate #1". Add emergency light at Toilet 110.
- K. Drawing P10.2 First Floor Plumbing Demolition Plan** - DELETE "PD-1" note from Classrooms A2, A3, A4, A5, A6, E4 & E5. No sketch has been issued to reflect this change.
- L. Drawing P10.3 Second Floor Plumbing Demolition Plan** - DELETE "PD-1" note from all classrooms on this sheet. No sketch has been issued to reflect this change.
- M. Drawing P10.5 First Floor Plumbing Plan** - At Classrooms A2, A3, A4, A5, A6, E4 & E5, contractor to provide "P-4" material only, to the owner. Owner will install. No sketch has been issued to reflect this change.
- N. Drawing P10.6 Second Floor Plumbing Plan** - At all classrooms on this sheet, contractor to provide "P-4" material only, to the owner. Owner will install. No sketch has been issued to reflect this change

END OF ADDENDUM NO. 1



EDIS COMPANY

110 SOUTH POPLAR STREET ■ SUITE 400 ■ WILMINGTON, DE 19801-6053  
TEL. (302) 421-5700 ■ FAX (302) 421-5715 ■ WWW.EDISCOMPANY.COM

RED CLAY CONSOLIDATED SCHOOL DISTRICT - LEWIS ELEMENTARY SCHOOL  
BID PACKAGE 'A' - PRE-BID MEETING

Date: 22 Feb 2017

Please Print!

COMPANY NAME	CONTACT NAME	EMAIL ADDRESS	PHONE NUMBER	FAX NUMBER	MAILING ADDRESS
BCI	Bill Michelinie	bmichelinie@	(302)	(302)	34 Industrial Blvd.
<del>BCI</del>	<del>Bill Michelinie</del>	bci-online.com	325-2700	325-2733	New Castle, DE 19720
Coker Concrete & CC	Bobby Wilson	Coker Concrete Inc 1@gmail	302	2336463	32 West Lookerman St Dover DE 19904
SPECIALTY FINISHES	GORDIE BENNETT	gbennett@specialtyfinishesde.com	302-438-7421		830 Dawson Dr / Newark, DE 19713
NEC	Kevin Garber	Kevin.Garber@northeastcontractorsinc.com	302-275-4848		87 Blue Hen Dr. Newark, DE 19713
ID Gr. Flt.	Lee Smith	lsmith@idgruffill.com	302-225-7342	302-656-8268	735 South Market St.
Sobieski	Greg Pappas	gpappas@sobieskiinc.com	302-993-0104		14 Hades Rd Wilm DE 19804
Sobieski	Ian Murphy	imurphy@sobieskiinc.com	302-932-5704		14 Hades Rd Wilm DE 19804
Ventresca Bros., Inc.	Tony Ventresca	tony@ventrescabros.com	302-658-6436	302-658-2360	2300 N. Dupont Hwy., New Castle, DE
<del>East Coast</del> HVAC	JOE WASHINGTON	JOE@ELPH.NET	302-250-1583	302-266-0532	26A Brookhill Drive Newark, DE 19702





REQUEST FOR INFORMATION

TO: ED LUPINEK, STUDIO JAED

PRE-BID RFI#: 1

FROM: VINNIE COLONNA

DATE: 1 MARCH 2017

PROJECT: LEWIS ELEMENTARY SCHOOL RENOVATIONS – BID PACK 'A'

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

- 1. Please confirm the electrical scope of work for the tele/data.**
- 2. Who is the school's fire alarm vendor?**
- 3. Who is the school's time/clock/sound system vendor?**

Submitted By: John DeMatteis / Nickle Electric

Date: 27 Feb 17

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**RESPONSE:**

- 1. Tel /data work will be under separate contract. IT rack and tele patch panels are located in closet in teacher's lounge on first floor.**
- 2. Fire alarm panel is NOTIFIRE. Fire alarm control panel is located in storage rm in basement.**
- 3. Time clock system is STANDARD. Main controller is located in main office.**

Response By: Ed Lupinek, Studio JAED

Date: 3 Mar 17

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REQUEST FOR INFORMATION

TO: ED LUPINEK, STUDIO JAED

PRE-BID RFI#: 2

FROM: VINNIE COLONNA, EDiS COMPANY

DATE: 3 MARCH 2017

PROJECT: LEWIS ELEMENTARY SCHOOL RENOVATIONS – BID PACK 'A'

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Please find attached our request for substitution packages for the roller shades on the above-referenced project. We have reviewed the specifications and believe our FlexShade XD System matches the specified product. Should you have any questions or require any additional information, please feel free to contact me. My contact information is listed on the substitution request form and below.

Submitted By: Jessi Wright/ Draper, Inc.

Date: 3 Mar 17

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**RESPONSE:**

This substitution is acceptable.

Response By: Andrew Moore, Studio JAED

Date: 3 Mar 17

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SUBSTITUTION REQUEST (During the Bidding Phase)

Project Red Clay Consolidated School District Lewis Elementary School Renovations
Substitution Request Number:
From: Jessi Wright; Draper Inc.
To: StudioJAED
Date: 3/3/17
A/E Project Number: 15051
Re: Roller Shade Substitution
Contract For: Alteration

Specification Title: Roller Shades Description: Sunscreen roller shades
Section: 12 24 13 Page: 2 Article/Paragraph: 2.01 B

Proposed Substitution: Draper Inc. as approved equal manufacturer
Manufacturer: Draper Inc Address: 411 S Pearl St. Spiceland, IN 47385 Phone: 765-987-7999
Trade Name: Window Treatments Model No.: FlexShade XD

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
Same warranty will be furnished for proposed substitution as for specified product.
Same maintenance service and source of replacement parts, as applicable, is available.
Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
Proposed substitution does not affect dimensions and functional clearances.
Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Jessi Wright
Signed by: Jessi Wright
Firm: Draper Inc.
Address: 411 S. Pearl St. Spiceland, IN 47385
Telephone: 765-856-1334

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01330.
Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
Substitution rejected - Use specified materials.
Substitution Request received too late - Use specified materials.

Signed by: Date:

Supporting Data Attached: Drawings Product Data Samples Tests Reports



## About Draper

Draper, Inc. was founded in 1902 by Luther O. Draper as a manufacturer of window shades for schools. Mr. Draper saw the problem of the sun's heat and glare in schools—the largest buildings in most communities at that time. He addressed that problem by making and selling spring-roller window shades in Spiceland, Indiana, 40 miles east of Indianapolis.

The window shade business grew through two world wars and a depression. Today, Draper offers lines of window shades for the commercial, educational, and residential markets, and is one of the country's largest manufacturers of window shades. Draper window shades are sold through leading window coverings dealers across the United States

Today, Draper utilizes a state-of-the-art 400,000 square foot manufacturing facility. Draper offers unmatched customer service and support and has continued to expand and grow its product lines through the recent recession and slow economy.

Draper's in-house engineering department designs our own product components, including clutches, roller tubes, and window shade hardware.



Draper's original factory, c. 1920.



Draper, Inc.'s manufacturing facility today.

# RELAX.



## YOUR PURCHASE IS COVERED.

**The quality of Draper FlexShades is unmatched. We're so sure that your window shades will look great and work well (and continue to do so) that we are offering a 25-year limited warranty on most interior shade products.**

**We just don't think you'll need it.**

Draper, Inc. warrants that its products are free from defects in material and workmanship for the following specified warranty periods:

**For Draper's interior shading products:**

- 25 years for most Draper FlexShade interior window shade models (excluding Infinity, Infinity 2, GreenScreen® Revive™, EcoShade, and Vela fabrics).
- 10 years for the Draper Techmatic, the Draper Spring Roller Window Shade (excluding Infinity, Infinity 2, GreenScreen® Revive™, EcoShade, and Vela fabrics), and the spring assist mechanism used in any Draper window treatment product.
- 5 years for controls, electronic accessories and motors for the above products, and also for above interior window shade models with Infinity, Infinity 2, GreenScreen® Revive™, EcoShade, and Vela fabrics.
- 1 year for the Draper FlexShade ZIP; the Draper Custom Tension System; the Draper Omega Venetian Blinds; the Draper FlexLouver Rack Arm System, and the Draper FlexWave Light Shelf.

**For Draper's exterior shading products:**

- 5 years for most Draper Exterior FlexShade models.
- 1 year for the Draper FlexShade ZIP, the Draper Custom Tension System, the Draper Omega Venetian Blinds, the Draper FlexLouver Rack Arm System, the s\_enn® Shading System, and the s\_onro® Daylighting Shutter System.

For more details, please contact Draper or visit our website at [www.draperinc.com/go/FlexShadeWarranty.htm](http://www.draperinc.com/go/FlexShadeWarranty.htm).



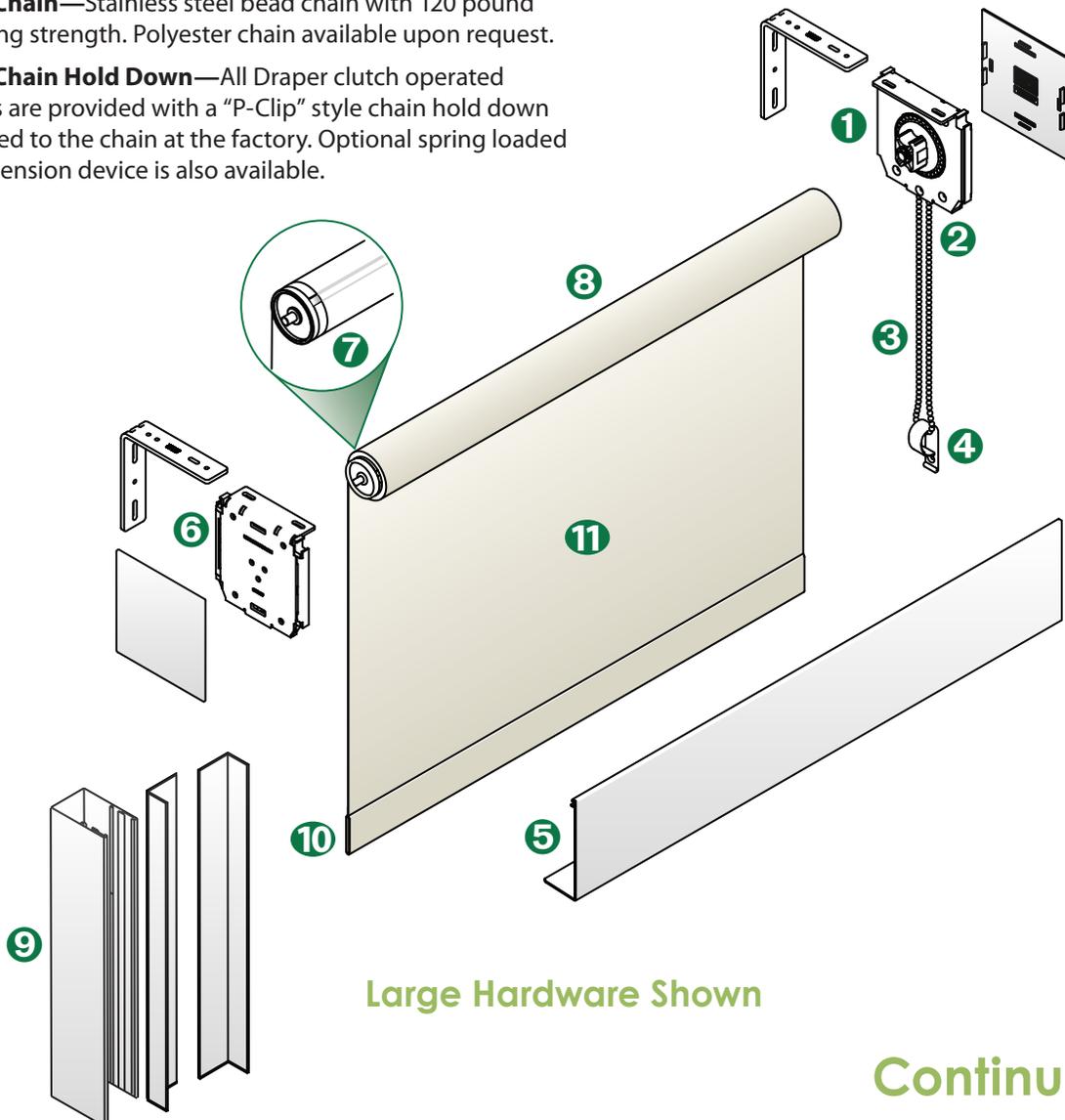
## Clutch FlexShade XD Product Fact Sheet



*Installation above by Motorized Sun Solutions. Photography by Matt Oberer, matt o photo. Both of Albuquerque, NM.*

# Clutch FlexShade XD Product Fact Sheet

- 1. XD Clutch Mechanism**—POM thermoplastic with welded 9 mm (.354") primary steel post, and rotational bearing to ensure smooth, quiet operation. POM is an engineering thermoplastic used in precision parts that require high stiffness, low friction and excellent dimensional stability. Trade names of POMs include DuPont, Delrin; Ticona Hostaform, Celcon; and Polyplastic Duracon. The XD clutch has overrunning design. Positive mechanical attachment of drive mechanism to roller tube. White or black color options.
- 2. Centered Bead Chain Drive**—Bead chain will not interfere with optional side channels.
- 3. Bead Chain**—Stainless steel bead chain with 120 pound breaking strength. Polyester chain available upon request.
- 4. Bead Chain Hold Down**—All Draper clutch operated shades are provided with a "P-Clip" style chain hold down attached to the chain at the factory. Optional spring loaded chain tension device is also available.
- 5. Fascia Cover**—FlexShade XD is compatible with standard Draper fascia panel or headbox cover. Aluminum L-shaped or radius fascia cover. Snaps onto endcaps without exposed fasteners. No notching of fascia required. Continuous fascia can cover two or more shade bands. Available in clear anodized, black, bronze, ivory, or white powdercoat finish. Optional powder coat colors are available. Full range of hardware accessories is available.



Large Hardware Shown

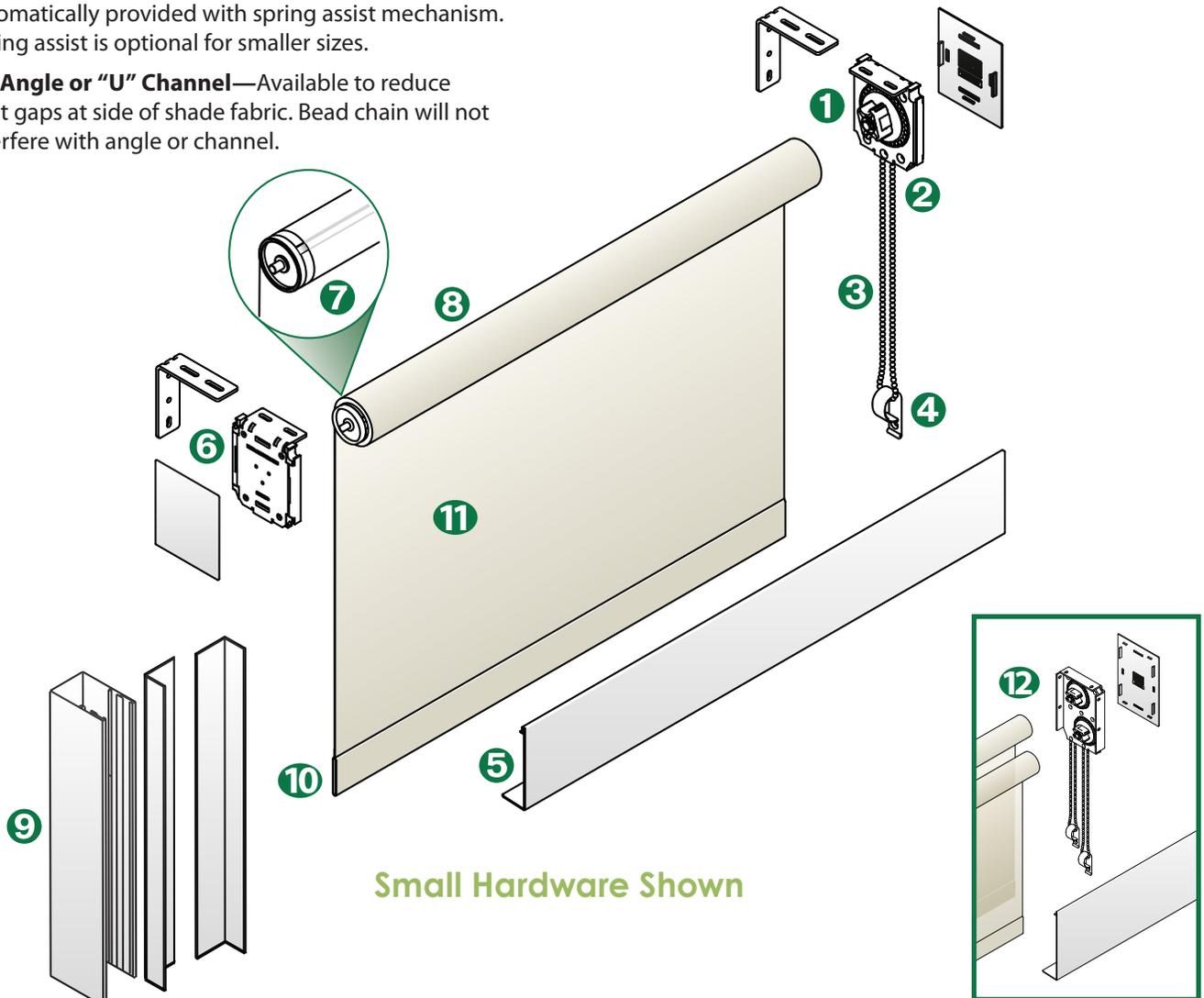
Continued →



**FlexShade XD Warranty**—Single source limited 25-year warranty. Includes all hardware, XD clutch, and shade fabric.

## Clutch FlexShade XD Product Fact Sheet

6. **Mounting Brackets (endcaps)**— $\frac{1}{8}$ " thick zinc plated steel with reinforcement ribs. Suitable for wall or ceiling installation. Wall brackets are provided standard with every shade. 2 sizes:  $3\frac{1}{4}$ " x  $3\frac{3}{4}$ " and  $4\frac{1}{2}$ " x  $4\frac{1}{2}$ ". Snap on plastic end cap covers are included.
7. **Fabric Attachment**—Shade fabric attached to aluminum roller tube with spline fabric attachment method. Allows for easy removal of fabric panel without removal of roller tube assembly.
8. **Roller Tube**—1.56", 2", 2.36", or 2.56" diameter extruded aluminum roller tube as appropriate for size of shade. **Spring Assist Mechanism** ensures smooth operation of large shades. Larger units are automatically provided with spring assist mechanism. Spring assist is optional for smaller sizes.
9. **"L" Angle or "U" Channel**—Available to reduce light gaps at side of shade fabric. Bead chain will not interfere with angle or channel.
10. **Bottom Hem Pocket**— $2\frac{1}{8}$ " heat sealed bottom hem pocket with  $\frac{1}{8}$ " x 1" aluminum slat. Pocket ends are heat sealed so slat bar cannot be easily removed.
11. **Shade Fabric**—Draper uses fabrics from leading textile mills. Unmatched style and color choices. Many fabrics have GREENGUARD<sup>®</sup> certification, and MicroBan<sup>®</sup> antimicrobial treatment. Also offer PVC-free and recyclable fabrics. Fire retardancy and antimicrobial documentation and testing reports are available.
12. **Dual Roller FlexShade XD is also available.**



**FlexShade XD Warranty**—Single source limited 25-year warranty. Includes all hardware, XD clutch, and shade fabric.

# FlexShade XD by Draper, Inc.

## Prior Approval Side-By-Side Comparison

Specification Section	Draper, Inc.	Specified
Quality- Years manufacturing window shades, and use of materials which meet ASTM- G21 and NFPA 701 standards	Draper began manufacturing window shades in 1902. Fabrics used for your projects meet ASTM G21 and NFPA 701 standards.	The specified has been manufacturing for 40+ years. Their fabrics appear to meet the required standards.
Warranty- 25 year limited lifetime warranty	Draper products are backed by a 25 year limited lifetime warranty.	Product has 25 year limited lifetime warranty.
Chain	Draper uses stainless steel chain with a tensile strength of more than 120 lbs.	The specified uses stainless steel chain with a 90 lb tensile strength.
Hembar & hempocket	Draper uses a metal slat of appropriate size and thickness. The hempockets are heat sealed.	The specified product uses metal hembars and heat sealed hempockets.
Positive mechanical engagement and attachment of fabric to roller	Draper's roller is grooved to slide over the clutch drive. The fabric is welded to a spline. The spline is pressed into one of the two grooves.	The specified uses a spline system to attach the fabric to the roller.
Fascia	Draper's fascia allows for continuous mounting over multiple shades if requested. The fascia does not require exposed fasteners for attachment. Notching is never required for chain drops, with or without U channel.	The specified fascia can be mounted continuously over multiple shades. The fascia does not require exposed fasteners. Notching is not required for shades without U channels.
Drive Assembly	Draper uses a POM thermoplastic with a welded 9 mm primary steel post and rotational bearing to ensure smooth, quiet operation. POM trade names include DuPont Delrin; Ticona Hostaform, Celcon; and Polyplastic Duracon.	The specified uses a POM thermoplastic with a lubricated hub on a steel post.
Pockets	Draper uses an extruded aluminum pocket or steel pocket with exposed aluminum extruded closures.	The specified uses an extruded aluminum pocket or steel pocket with exposed aluminum extruded closures.
Fabrication	Draper shades are manufactured with equal fabric deductions on each side. Draper shades are manufactured to a 1/8" deflection tolerance so the sag in the middle of the roller does not create excessive distortion or buckling. Draper hangs and backlights each shade to inspect for tracking problems and fabric defects.	The specified product requires the shade to hang flat without buckling or distortion or shifting more than an 1/8 inch either direction.
Finishes	Draper powder coats its hardware with an on-site powder coat line. This tough, durable, and environmentally friendly process ensures minimum handling of coated product and maximum offering of colors with a quick lead-time.	The specified product uses a baked-enamel finish from the manufacturer's color range.



Copyright © 2012 Draper Inc. FlexShadeXDvM\_PriorApproval12 Printed in U.S.A.

*Please Note: Statements about the specified product are based on published information, and are subject to change.*

**Telephone—800-989-0126/Fax—866-637-5611**

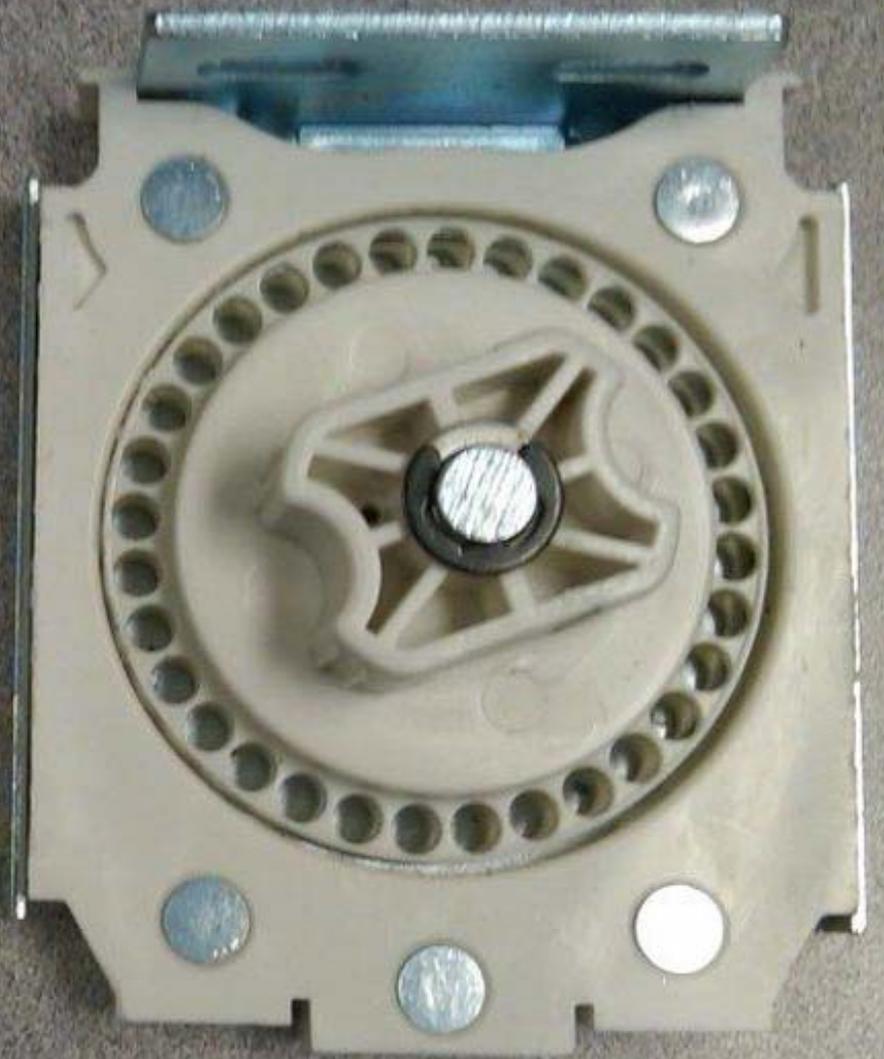
**After hours, call our West Coast office at 714-447-4383.**

# Draper Clutch FlexShade XD v Mecho M5

	Draper		Mecho
<b>Bracket /Clutch</b>			
Thickness	.125"		.125"
X tra strength	Reinforcement ribs		N/A
Surface Area	Larger		N/A
Zinc Plated	Y		Y
<b>Primary Post</b>			
Diameter	9 mm/ .354"		7.8 mm .311"
One piece machined steel	Yes		No
<b>Post Attachment</b>	Tig Welded		Swaged
<b>Clutch Area</b>			
Width	12.7mm/ .50"		12.7 mm/ .50"
Bundle Diameter	Larger		N/A
<b>Rotational Bearing</b>	Yes		No
<b>Rivets</b>			
clutch		5	4
Idler		7	6
Recessed on rear	Yes		No
Centered	Yes		No
<b>Chain Exits</b>	2 Centered Lower/reduces chain interference		4/Offset N/A
<b>Plastic Material</b>	POM		POM
<b>Endcap Attachment</b>	Mechanical Snap On		Tape
<b>Patents</b>	N/A		Friction Hb and Spring
<b>Idler Notes</b>	Printed		Printed



Mecho



Draper







# FlexShade XD

*Premium clutch-operated window shade*

Re: Draper XD Cycle Tests

To whom it may concern,

Testing was conducted on the Draper XD clutch at maximum lifting capacity and maximum shade height. This testing was done for 20,000 cycles (from the full raised position to completely lowered then returned to full raised position, this equals 1 cycle). After the testing was completed, the XD Clutch continued to perform to specification. It was subsequently dismantled and examined, the XD Clutch was observed to have negligible signs of wear. 20,000 cycles would represent approximately 55 years of use if it was used daily in a full up to full down to full up cycle.

Best regards,  
Jeffrey A. Miller

Manager, Solar Control Products  
Draper, Inc.

# FlexShade XD

Premium clutch-operated window shade

by

# DRAPER

Please check all appropriate selections and attach room schedule with verified dimensions.

### Select Operator Location

Select **right side (standard)** or left side as seen from inside the room, facing the window. Also indicate selection on room schedule.

- Right Side (standard)
- Left Side

### Select Hardware

- Brackets Only
- Fascia
  - Large
    - Radius
    - Square
  - Small
    - Radius
    - Square
- Headbox
  - Large
    - Ceiling/Wall Style
    - Pocket Style
  - Small
    - Ceiling/Wall Style
    - Pocket Style
- Type "D" Pocket
  - Type "D" Corners (How Many? \_\_\_\_\_)
    - Inside
    - Outside
  - Type "D" Endcap Kits (2 endcaps) (How Many? \_\_\_\_\_)
- Wall Clip
  - With ceiling tile lip
  - Without ceiling tile lip
- Closure Panel for Type D or Wall Clip
  - 1½" closure panel (recommended for clutch operated FlexShades)
  - 3" closure panel (notching required for Clutch FlexShades)
  - 5" closure panel (for wall clip only)
- Dual Roller FlexShade XD
  - Endcaps Only
  - Endcaps with Fascia

- Horizontal Dual Roller FlexShade XD
  - Endcaps Only
  - Endcaps with Small Fascia (large fascia not an option)
- Optional Channels for Light Gap Reduction (special installation considerations for use with Dual Roller FlexShade XD. Contact Draper for details)
  - "U" Channel 1" x 2½" x 16' length
  - "H" Channel 1" x 5" x 16' length
  - "L" Angle ¾" x 1" x 12'3" length
  - "L" angle 1" x 2¾" x 16' length

### Select Hardware Finish

- Clear Anodized (standard)
- Black  Ivory
- White  Bronze

### Select Fabric Orientation

- Regular Roll (from back of roller)
- Reverse Roll (from front of roller) [Not available with fascia]

### Select Operator Chain

- Stainless Steel Chain (standard)
- Polyester Chain
  - Ivory
  - Grey
  - Black
  - Brown
  - White

### Select Cord Tension Device (Bead Chain only)

- P-Clip Cord Tension Device
- Optional Spring Loaded Cord Tension Device

### Select Clutch Color

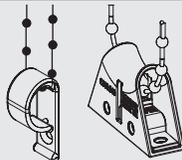
- White (standard)
- Black

### Optional Spring Assist

- Spring Assist per manufacturer's standards (standard as required)
- Spring Assist on all units

### Safety Note for Bead Chain Clutch Shades

Please Note: If shades are to be installed in areas accessible to young children, be certain to use cord tension device included with Bead Chain Clutch shades. Clutch-operated shades should not be installed near cribs or playpens.



For fabric selection and dimensions, please see pages 2 and 3.

PROJECT: \_\_\_\_\_

ARCHITECT: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

SUPPLIER: \_\_\_\_\_

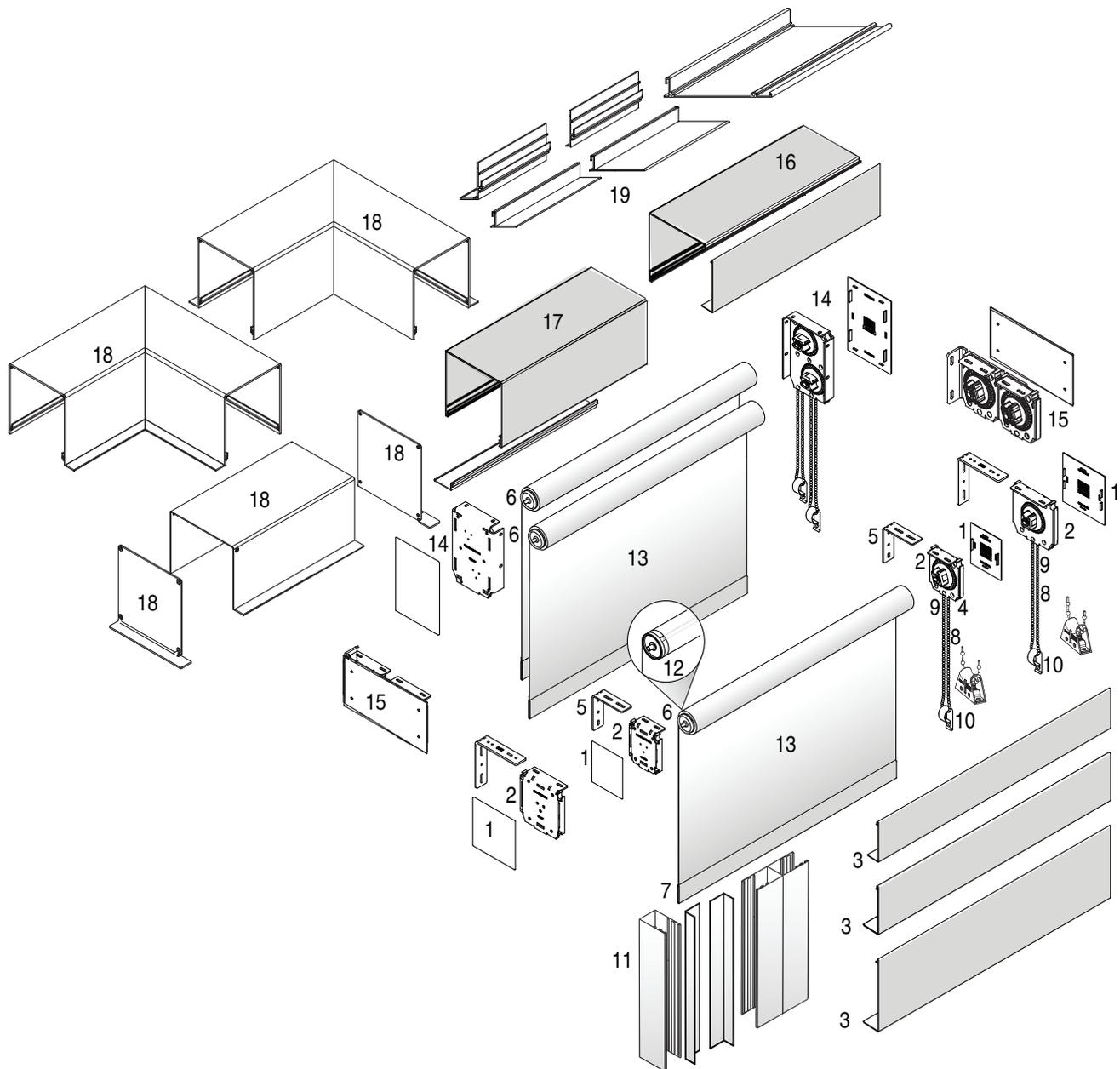
DATE: \_\_\_\_\_ REVISED: \_\_\_\_\_

# DRAPER®

411 S. Pearl St., Spiceland, IN 47385 USA ■ 765-987-7999  
 www.draperinc.com ■ fax 765-987-7142

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Printed in U.S.A.



- ① End Cap Covers.
- ② Mounting Brackets (endcaps).
- ③ Fascia Cover
- ④ XD Clutch Mechanism.
- ⑤ Wall Brackets.
- ⑥ Roller Tube.
- ⑦ Bottom Hem Pocket.
- ⑧ Centered Bead Chain Drive.
- ⑨ Bead Chain.
- ⑩ Bead Chain Hold Down. Optional spring loaded chain tension device is also available.
- ⑪ "L" Angle, "H" Channel or "U" Channel.
- ⑫ Fabric Attachment.
- ⑬ Shade Fabric.
- ⑭ Dual Roller FlexShade XD.
- ⑮ Horizontal Dual Roller FlexShade XD.
- ⑯ Ceiling/Wall Headbox.
- ⑰ Pocket Headbox.
- ⑱ Type "D" Pocket. Pre-welded corners and endcaps optionally available.
- ⑲ Wall Clips and Closures with or without ceiling tile lip.
- ⑳ Optional Spring Assist Mechanism not shown.

**⚠ Caution: When mounting a FlexShade XD in a headbox, the unit must be ceiling mounted with fasteners through the clutch and idler brackets. The headbox extrusion cannot be mounted to a structure unless the XD brackets are secured inside the extrusion.**

## Specifications—FlexShade XD

### Equipment

**XD Clutch Operator:** POM thermoplastic with welded 9 mm (.354") primary steel post with rotational bearing to ensure smooth and quiet operation. Overrunning design. Positive mechanical engagement of drive mechanism to tube. White (standard) or black color options. Stainless steel (standard) bead chain, or polyester control loop. Polyester chain in ivory, black or grey.

**Rollers:** Extruded aluminum 1.56", 2", 2.36", 2.56" and 3.12" diameter roller tube as appropriate for size of shade.

### Components

**Endcap:** 1/8" thick zinc plated steel with reinforcement ribs. Wall or ceiling installation. 2 sizes: 3 1/4" x 3 3/4" and 4 1/2" x 4 1/2". Wall mount brackets are provided as standard. Snap-on plastic end cap covers to match clutch color.

**Fabric Attachment:** Fabric attached to roller tube with spline fabric attachment method. Allows for removal of fabric panel without removal of roller assembly.

**Fascia:** Optional L-shaped or radius cover of 6063-T5 extruded aluminum. Assembly snaps onto endcaps without exposed fasteners. **Clear anodized finish (standard)** or ivory, bronze, black or white powder coat. Fascia can also be wrapped in fabric. Radius fascia on small hardware only.

**Headbox:** Standard consists of fascia, L-shaped back/top cover. Assembly snaps onto endcaps. Optional, for pocket installation, includes a U-shaped back/top/front cover with removable bottom closure panel. Small size: 3 7/16" x 3 15/16". Large size: 4 11/16" x 4 11/16". Some exposed fasteners required. **Clear anodized (standard)** finish or black, white, ivory or bronze powder coat finish.

**Slat:** Aluminum, encased in heat seamed hem.

**Type D Pocket:** Fabricated of 6063-T5 aluminum alloy for perimeter installation. Finished white. 5" x 5 3/8" x .125" with tile support lip and removable bottom closure. Pre-welded corners and endcaps optionally available. Larger 9 1/2" x 5 3/8" x .125" version for mounting two XD mechanisms in the same pocket also available.

**Dimensions:** Shades to fit windows with maximum protection from light streaks. Finished length of shades no less than 6" greater than window height.

**"L" Angle** (3/4" x 1" x 12'3", 1" x 2 3/4" x 16' or cut to length) and **"U" Channel** (1" x 2 1/2" x 16' or cut to length): Accepts side edges of fabric, prevents light gaps. Interior of channel provides for use of flat head screws. Dimensions of rollers, operators and hardware at manufacturer's discretion.

## Specifications—Dual Roller FlexShade with XD Clutch

Two rollers mounted to a single set of endcaps, to accept fascia.

### Equipment

**XD Clutch Operator:** POM thermoplastic with welded 9 mm (.354") primary steel post with rotational bearing to ensure smooth and quiet operation. Overrunning design. Positive mechanical engagement of drive mechanism to tube. White (standard) or black color options. Stainless steel (standard) bead chain, or polyester control loop. Polyester chain in ivory, black or grey.

**Rollers:** Extruded aluminum 1.56", 2" or 2.56" diameter roller tube as appropriate for size of shade.

### Components

**Dual Roller Endcaps (vertical):** 1028 steel stamping. Complete with adapter roller bracket. Installs to wall or ceiling. Shades mount in vertical configuration (see drawings). Accepts fascia.

**Fabric Attachment:** Fabric attached to roller tube with spline fabric attachment method. Allows for removal of fabric panel without removal of roller assembly.

**Fascia (for Endcaps):** L-shaped cover of extruded aluminum, .060 wall. Assembly snaps onto endcaps without exposed fasteners. **Clear Anodized (standard)**, black, white, ivory, or bronze powder coat finish available.

**Horizontal Dual XD FlexShade Bracket:** 1028 steel stamping. Complete with adapter roller bracket. Installs to wall. Shades mount in horizontal configuration (see drawings). Accepts standard XD fascia.

**"L" Angle** (3/4" x 1" x 12'3", 1" x 2 3/4" x 16' or cut to length), **"U" Channel** (1" x 2 1/2" x 16' or cut to length) and **"H" Channel** (1" x 5" x 16' or cut to length): Accepts side edges of fabric, prevents light gaps. Interior of channel provides for use of flat head screws.

**Dimensions of rollers, operators and hardware at manufacturer's discretion.**

## Select Fabric \_\_\_\_\_ Color name and number

### Blackout

Draper SB9000 \_\_\_\_\_

Draper SB9100 \_\_\_\_\_

Mermet Edessa Twilight FR \_\_\_\_\_

Mermet Flocke \_\_\_\_\_

Mermet Vizela \_\_\_\_\_

Phifer SheerWeave® SW7000 \_\_\_\_\_

Phifer SheerWeave® SW7100 \_\_\_\_\_

### Solar

#### 23%

Phifer SheerWeave® SW1000 \_\_\_\_\_

#### 14%

Phifer SheerWeave® SW3000 \_\_\_\_\_

#### 10%

Mermet "E" Screen \_\_\_\_\_

Phifer SheerWeave® SW2100 \_\_\_\_\_

Phifer SheerWeave® SW2710 \_\_\_\_\_

Phifer SheerWeave® SW2600 \_\_\_\_\_

Phifer SheerWeave® SW2410 \_\_\_\_\_

Phifer SheerWeave® PW4100 \_\_\_\_\_

#### 5%

GreenScreen Revive \_\_\_\_\_

Mermet "E" Screen \_\_\_\_\_

Mermet "M" Screen \_\_\_\_\_

Mermet Silverscreen \_\_\_\_\_

Phifer SheerWeave® Basic \_\_\_\_\_

Phifer SheerWeave® Infinity 2 \_\_\_\_\_

Phifer SheerWeave® SW2000 \_\_\_\_\_

Phifer SheerWeave® SW2705 \_\_\_\_\_

Phifer SheerWeave® SW2900 \_\_\_\_\_

Phifer SheerWeave® PW3500 \_\_\_\_\_

Phifer SheerWeave® PW4500 \_\_\_\_\_

Phifer SheerWeave® PW4550 \_\_\_\_\_

Phifer SheerWeave® Infinity 2 \_\_\_\_\_

Mermet Silverscreen \_\_\_\_\_

#### 4%

Mermet "S" Screen \_\_\_\_\_

#### 3%

Mermet "E" Screen \_\_\_\_\_

Mermet "M" Screen \_\_\_\_\_

Phifer SheerWeave® Basic \_\_\_\_\_

Phifer SheerWeave® Infinity 2 \_\_\_\_\_

Phifer SheerWeave® SW2703 \_\_\_\_\_

Phifer SheerWeave® SW2400 \_\_\_\_\_

Phifer SheerWeave® PW4400 \_\_\_\_\_

Phifer SheerWeave® PW4600 \_\_\_\_\_

Phifer SheerWeave® PW4650 \_\_\_\_\_

Ferrari Soltis 99 \_\_\_\_\_

#### 1%

GreenScreen Revive \_\_\_\_\_

Mermet "E" Screen \_\_\_\_\_

Mermet "T" Screen \_\_\_\_\_

Mermet Vizela \_\_\_\_\_

Phifer SheerWeave® SW2701 \_\_\_\_\_

Phifer SheerWeave® SW2500 \_\_\_\_\_

Phifer SheerWeave® PW4800 \_\_\_\_\_

#### Varies

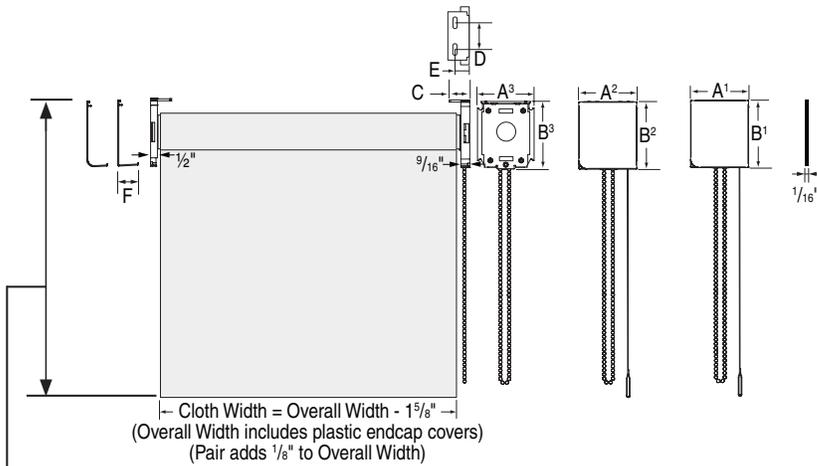
Mermet Vela \_\_\_\_\_

Phifer SheerWeave® SW5000 \_\_\_\_\_

For additional fabric information, go to [www.draperinc.com/WindowShades/stylelist.asp](http://www.draperinc.com/WindowShades/stylelist.asp).

To use our online fabric selection tool, go to [www.draperinc.com/WindowShades/tools/fabricselector](http://www.draperinc.com/WindowShades/tools/fabricselector).

## FlexShade XD Dimensions

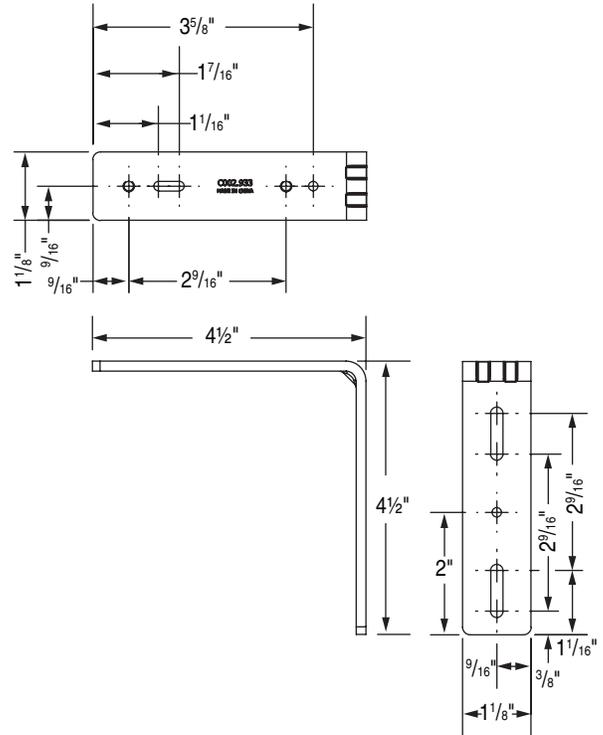


**When measuring shade height, remember to include endcaps and wall brackets, fascia or headbox.**

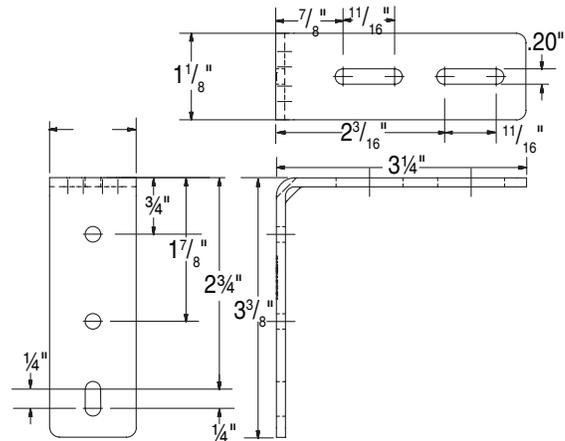
	Headbox		Fascia		Endcaps*	
	Small	Large	Small	Large	Small	Large
A <sup>1</sup>	3 <sup>7</sup> / <sub>16</sub> "	4 <sup>11</sup> / <sub>16</sub> "	A <sup>2</sup> 3 <sup>3</sup> / <sub>8</sub> "	4 <sup>5</sup> / <sub>8</sub> "	A <sup>3</sup> 3 <sup>1</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>2</sub> "
B <sup>1</sup>	3 <sup>15</sup> / <sub>16</sub> "	4 <sup>11</sup> / <sub>16</sub> "	B <sup>2</sup> 3 <sup>7</sup> / <sub>8</sub> "	4 <sup>5</sup> / <sub>8</sub> "	B <sup>3</sup> 3 <sup>3</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>2</sub> "
C	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	C 1 <sup>3</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	C 1 <sup>3</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "
D	1 <sup>5</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "	D 1 <sup>5</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "	D 1 <sup>5</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "
E	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	E 1 <sup>3</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "	E 1 <sup>3</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>16</sub> "
F	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>9</sup> / <sub>16</sub> "	F 1 <sup>3</sup> / <sub>16</sub> "	1 <sup>9</sup> / <sub>16</sub> "	F N/A	N/A

\* For Wall Mounting Bracket, add 3<sup>1</sup>/<sub>16</sub>" to A<sup>3</sup> and B<sup>3</sup>.

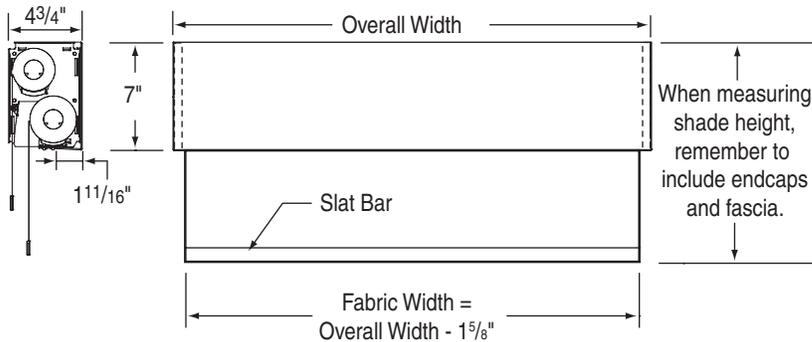
## Large Wall Bracket Dimensions



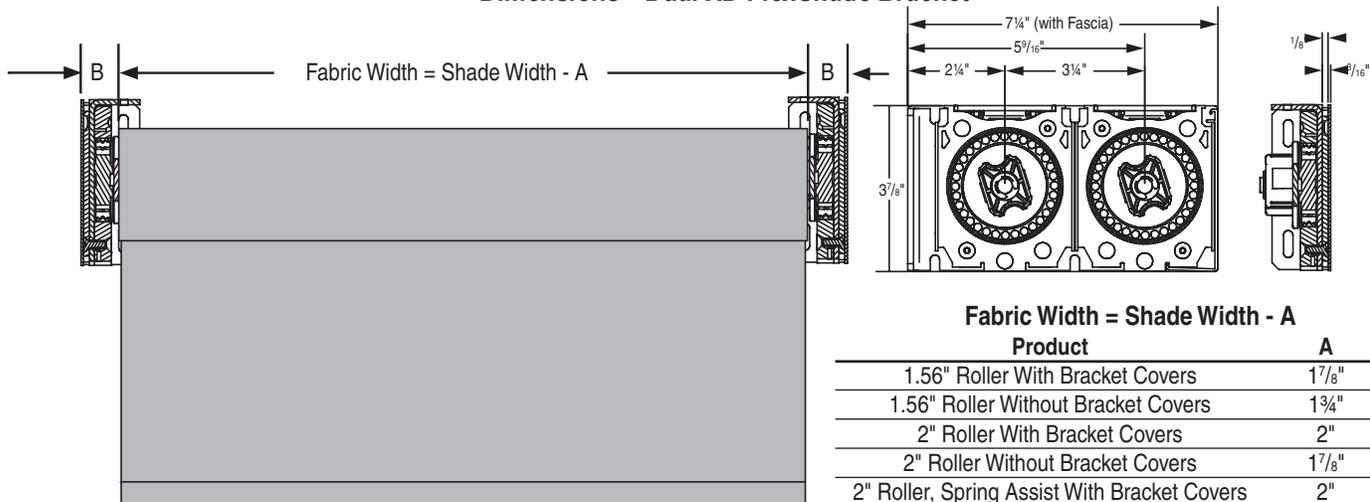
## Small Wall Bracket Dimensions



## Dimensions—Dual Roller



## Dimensions—Dual XD FlexShade Bracket



Fabric Width = Shade Width - A

Product	A	B
1.56" Roller With Bracket Covers	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>16</sub> "
1.56" Roller Without Bracket Covers	1 <sup>3</sup> / <sub>4</sub> "	7 <sup>7</sup> / <sub>8</sub> "
2" Roller With Bracket Covers	2"	1"
2" Roller Without Bracket Covers	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>16</sub> "
2" Roller, Spring Assist With Bracket Covers	2"	1"
2" Roller, Spring Assist Without Bracket Covers	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>16</sub> "

# Interior Sun Control Fabrics

Phifer  
**SheerWeave**<sup>®</sup>

BRAND FABRIC

STYLE PW3500/4100/4400

MADE WITH  
**ecolibrium**<sup>™</sup>  
BIO BASED PLASTICIZERS

**Style PW3500 (4000)**

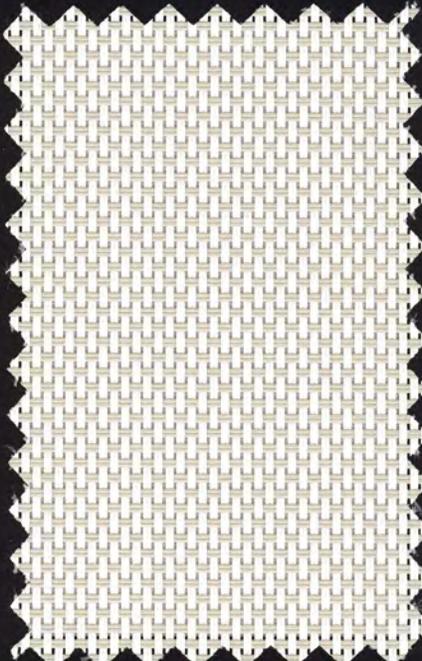
(5% open)



PW3560 Linen (Alabaster)

**Style PW4100**

(10% open)



PW4160 Linen (Alabaster)

**Style PW4400**

(3% open)

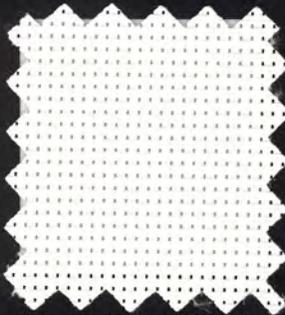


PW4460 Linen (Alabaster)

**A Greener  
Shading Solution**



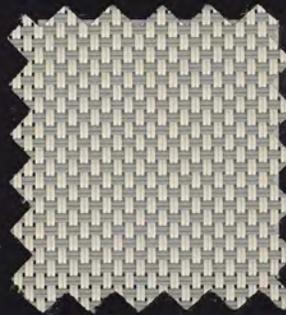
THE ABOVE STYLES  
ARE ALSO AVAILABLE IN  
THE COLORS SHOWN BELOW.



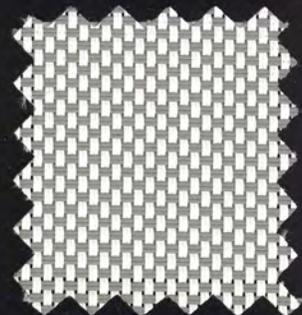
Snowy White (Chalk)



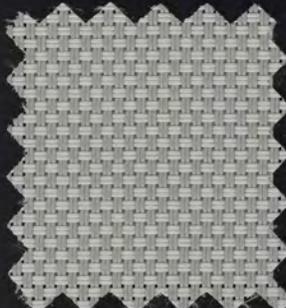
Bone (Pebblestone)



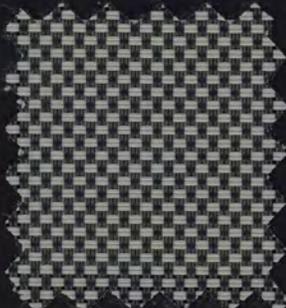
Greystone



Granite



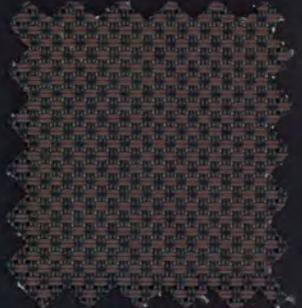
Soft Grey (Pewter)



Ash



Ebony



Tobacco

# SheerWeave® Style PW3500/4100/4400

## Specifications

■ Ideal for use in Roller-Operated Shades, Fixed Panels, and Panel Track, Style PW3500/4100/4400 can also be used in exterior roller shades. DOW ECOLIBRIUM™ Bio-Based Plasticizers offer a renewable alternative that is phthalate-free, offering a more sustainable option while having the same great performance and feel of current materials.

**Fire Classification:** California U.S. Title 19 (small scale), NFPA 701-2004 TM#1 (small scale), NFPA 101 (Class A Rating), UBC (Class I), BS 5867 2008 Part 2 Type B Performance, NFPA 701 TM#2 Large Scale, ASTM E 84 (Class 1), CAN/ULC-S109-03 (large and small scale), and CAN/CGSB2-4.162-M80

**Bacteria and Fungal Resistance:** ASTM E 2180, AATCC30 Part 3, ASTM G21, ASTM D 3273, GREENGUARD Mold and Bacteria Standard ASTM 6329; includes Microban antimicrobial additives

**Environmental Certification:** Certified to GREENGUARD Gold standards for low chemical emissions into indoor air during product usage

**Lead Free:** RoHS / Directive 2002/95/EC, US Consumer Product Safety Commission Section 101, ANSI/WCMA A100.1-2007 for lead content and REACH (EC 1907/2006) compliant

**Acoustical Performance:** NRC (Noise Reduction Coefficient) and SAA (Sound Absorption Average) tested in accordance with ASTM C423-09a. See performance values below.

**Composition:** 25% Polyester, 75% Vinyl on Polyester (Over 50% of compound components are derived from crop-based feed stocks and minerals. Over 2/3 of total compound is derived from non fossil fuel based materials.)

**Standard Uses:** Roller-Operated Shades, Fixed Panels, and Panel Track

**Warranty:** 10-year interior; 5-year exterior



PRODUCT CERTIFIED FOR  
LOW CHEMICAL EMISSIONS  
UL.COM/IGG  
UL 2818



Microban® antimicrobial protection inhibits the growth of stain-causing bacteria, mold and mildew on the shade.



## Style PW3500 (4000)

■ Made from vinyl-coated polyester yarns, Style PW3500 (4000) is designed with today's demanding commercial market in mind.

**Standard Widths:** 63", 84", 98" and 126" (160cm, 213.4cm, 248.9cm and 320cm)

**Standard Roll Length:** 30 Linear Yards (27.4m)

**Mesh Weight:** 19.2 oz/yd<sup>2</sup> (651 g/m<sup>2</sup>)

**Fabric Thickness:** .036 in (0.91mm)

**Openness Factor:** Approximately 5%

**UV Blockage:** Approximately 95%

**Acoustical Value:** NRC .10 / SAA .11

## Style PW4100

■ Similar in design to Style PW3500 (4000), Style PW4100 has a slightly more open weave to provide increased outward visibility.

**Standard Widths:** 63", 84" and 98" (160cm, 213.4cm and 248.9cm)

**Standard Roll Length:** 30 Linear Yards (27.4m)

**Mesh Weight:** 17.5 oz/yd<sup>2</sup> (593 g/m<sup>2</sup>)

**Fabric Thickness:** .035 in (0.89mm)

**Openness Factor:** Approximately 10%

**UV Blockage:** Approximately 90%

## Style PW4400

■ Designed with a 3% openness factor, Style PW4400 offers maximum UV blockage while maintaining good outward visibility.

**Standard Widths:** 63", 84", 98" and 126" (160cm, 213.4cm, 248.9cm and 320cm)

**Standard Roll Length:** 30 Linear Yards (27.4m)

**Mesh Weight:** 20.7 oz/yd<sup>2</sup> (702 g/m<sup>2</sup>)

**Fabric Thickness:** .037 in (0.94mm)

**Openness Factor:** Approximately 3%

**UV Blockage:** Approximately 97%

**Acoustical Value:** NRC .20 / SAA .19

\* Performance evaluations conducted by Matrix, Inc., Mesa, Arizona.

TS = Solar Transmittance  
RS = Solar Reflectance  
AS = Solar Absorption  
TV = Visual Transmittance  
1/4CL = 1/4" Clear Glass  
1CL = 1" Insulating Clear Glass  
1/4HA = 1/4" Heat Absorbing Glass  
1HA = 1" Insulating Heat Absorbing Glass

The solar optical properties are used to calculate the shading coefficient. The shading coefficient represents the percentage of solar heat gain that is transmitted to the interior through the glass and shading system. Darker colors provide maximum glare reduction and visibility. For complete technical information, current test results, performance specifications and larger samples, contact our Sun Control Marketing Department.



411 S. Pearl St. Spiceland, IN 47385  
Ph: 765-987-7999 Fax: 765-987-7142  
www.draperinc.com

### Solar Heat Control Properties of Phifer SheerWeave Style PW3500 (4000) With DOW ECOLIBRIUM™ Fabrics Installed Internally, Zero-Degree Profile Angle

Style No.	Color	*Solar Optical Properties				Shading Coefficient w/ Single Insulating			
		TS	RS	AS	TV	1/4CL	1/4HA	1CL	1HA
PW3510	Snowy White (Chalk)	16	68	16	12	0.32	0.31	0.31	0.25
PW3520	Bone (Pebblestone)	14	49	37	12	0.44	0.37	0.41	0.30
PW3525	Greystone	10	34	56	9	0.52	0.42	0.32	0.24
PW3540	Soft Grey (Pewter)	8	27	65	9	0.56	0.44	0.51	0.36
PW3545	Granite	11	41	48	10	0.48	0.40	0.29	0.23
PW3555	Ash	7	11	82	8	0.66	0.49	0.41	0.30
PW3560	Linen (Alabaster)	15	57	28	13	0.39	0.35	0.36	0.28
PW3570	Ebony	6	5	89	8	0.69	0.51	0.63	0.43
PW3580	Tobacco	7	5	88	8	0.70	0.51	0.44	0.31

### Solar Heat Control Properties of Phifer SheerWeave Style PW4100 With DOW ECOLIBRIUM™ Fabrics Installed Internally, Zero-Degree Profile Angle

Style No.	Color	*Solar Optical Properties				Shading Coefficient w/ Single Insulating			
		TS	RS	AS	TV	1/4CL	1/4HA	1CL	1HA
PW4110	Snowy White (Chalk)	18	66	16	15	0.34	0.32	0.32	0.25
PW4120	Bone (Pebblestone)	16	48	36	15	0.45	0.38	0.41	0.31
PW4125	Greystone	14	35	51	14	0.53	0.42	0.48	0.34
PW4140	Soft Grey (Pewter)	12	26	62	14	0.58	0.45	0.53	0.37
PW4145	Granite	15	42	43	14	0.49	0.40	0.29	0.23
PW4155	Ash	10	10	80	11	0.67	0.50	0.42	0.31
PW4160	Linen (Alabaster)	19	56	25	16	0.41	0.36	0.38	0.29
PW4170	Ebony	10	4	86	11	0.71	0.52	0.64	0.43
PW4180	Tobacco	10	5	85	11	0.70	0.51	0.45	0.32

### Solar Heat Control Properties of Phifer SheerWeave Style PW4400 With DOW ECOLIBRIUM™ Fabrics Installed Internally, Zero-Degree Profile Angle

Style No.	Color	*Solar Optical Properties				Shading Coefficient w/ Single Insulating			
		TS	RS	AS	TV	1/4CL	1/4HA	1CL	1HA
PW4410	Snowy White (Chalk)	12	70	18	7	0.30	0.30	0.16	0.15
PW4420	Bone (Pebblestone)	9	51	40	6	0.42	0.36	0.38	0.28
PW4425	Greystone	6	39	55	5	0.48	0.40	0.44	0.32
PW4440	Soft Grey (Pewter)	3	26	71	2	0.56	0.44	0.34	0.25
PW4445	Granite	6	48	46	5	0.43	0.37	0.25	0.20
PW4455	Ash	3	10	87	4	0.66	0.49	0.60	0.41
PW4460	Linen (Alabaster)	10	62	28	6	0.35	0.32	0.19	0.17
PW4470	Ebony	3	3	94	3	0.70	0.51	0.63	0.43
PW4480	Tobacco	3	5	92	3	0.69	0.50	0.62	0.42

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SECTION 002113 - INSTRUCTIONS TO BIDDERS

1. DEFINITIONS

- A. Bidding Documents include the Bidding Requirements and the proposed Contract Documents. The Bidding Requirements consist of the Advertisement for Bid, Invitation to Bid, Instructions to Bidders, Supplementary Instructions to Bidders (if any), General Conditions, Supplementary General Conditions, General Requirements, Special Provisions (if any), the Bid Form (including the Non-collusion Statement), and other sample bidding and contract forms. The proposed Contract Documents consist of the form of Agreement between the Owner and Contractor, as well as the Drawings, Specifications (Project Manual) and all Addenda issued prior to execution of the Contract.
- B. All definitions set forth in the General Conditions and the other Contract Documents are applicable to the Bidding Documents.
- C. "Addenda" are written or graphic instruments issued by the Architect/Engineer prior to the receipt of bids which modify or interpret the Bidding Documents, by additions, deletions, clarifications or corrections. Addenda become part of the contract documents upon execution of the agreement.
- D. The term Work is defined in 1.1.3 of the General Conditions.
- E. A "Unit of Work" includes all Work covered by the one or more Sections of the specifications listed under that particular Unit of Work in Section 011100 - SUMMARY OF WORK. A Unit of Work is the smallest portion of the Project for which a separate Bid will be accepted by the Construction Manager. The word "Unit" means "Unit of Work" whenever the context clearly implies "Unit of Work".
- F. A "Bid" is a complete and properly executed proposal to do one or more Units of Work for the sum stipulated therein.
- G. A "Bidder" is one who submits a Bid to the Bidding Agency for the Unit or Units of Work indicated therein.
- H. A substantial amount of specification language constitutes definitions for terms found in other Contract Documents, including drawings, which must be recognized as diagrammatic in nature and not completely descriptive of requirements indicated thereon. Certain terms used in Contract Documents are defined generally in this article. Definitions and explanations to this section are not necessarily either complete or exclusive, but are general for the work to the extent not stated more explicitly in another provision of Contract Documents.

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- I. General Requirements (or Conditions) apply to entire work of Contract and, where so indicated, to other elements which are included in the project.
  - J. The term "indicated" is a cross reference to details, notes or schedules on the Drawings, to other similar means of recording requirements in the Contract Documents. Where terms such as "shown", "noted", "schedule" and "specified" are used in lieu of "indicate," it is for purpose of helping to locate cross reference and no limitation of location is intended, except as specifically noted.
  - K. Where not otherwise explained, terms such as "directed", "requested", "authorized", "selected", "approved", "required", "accepted" and "permitted" mean "directed by Construction Manager or Architect", "requested by Construction Manager or Architect", etc.
  - L. Where used in conjunction with Construction Manager's or Architect's response to submittals, requests, applications, inquiries, reports and claims by Contractor, the meaning of the term "approved" will be held to limitations of Construction Manager's and Architect's responsibilities and duties as specified in General and Supplementary Conditions. In no case will "approval" by Construction Manager or Architect be interpreted as a release of Contractor from responsibilities to fulfill requirements of the Contract Documents.
  - M. The "Project Site" is the space available to Contractor for performance of the Work, either exclusively or in conjunction with others performing other work as part of the Project. The extent of project site is shown on the Drawings and may or may not be identical with description of the land upon which project is to be built. The Contractor shall visit the site to verify contract or construction limits.
  - N. Except as otherwise defined in greater detail, term "furnish" is used to mean supply and deliver to project site, ready for unloading, unpacking, assembly, installation, etc., as applicable in each instance.
  - O. Except as otherwise defined in greater detail, term "install" is used to describe operations at project site including unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations as applicable in each instance.
  - P. Except as otherwise defined in greater detail, term "provide" means furnish and install, complete and ready for intended use, as applicable in each instance.
  - Q. An "Installer" is the entity, person or firm, engaged by the Contractor or his subcontractor or sub-subcontractor for the performance of a particular unit of work at the project site, including installation, erection, application and similar required operation. It is a general requirement that such installers be expert in operations

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they are engaged to perform.

- R. The duties and obligations of the Contract apply to this Contractor (as defined herein) regardless of similar or identical duties or obligations of other Prime Contractors related to the Project. Therefore, even though other Prime Contractors may have similar, identical or overlapping duties and obligations, each and every duty and obligation set forth in this Contract is enforceable against this Contractor.

2. BIDDER'S REPRESENTATION

- A. Each Bidder in submitting its bid represents that:

1. It has read and understands the Bidding Documents and its Bid is made in accordance therewith.
2. Contractor has visited the site; familiarized himself with the local conditions under which the work is to be performed; compared the site with drawings and specifications; satisfied himself of the conditions of delivery, handling and storage of materials and all other matters that may be incidental to the Work before submitting his Bid.
3. Its Bid is based upon the materials and equipment described within the Bidding Documents without exceptions.

B. EVIDENCE OF REPRESENTATION

1. Submission of a Bid will be considered as evidence of the bidder's representation. No allowance will subsequently be made to the successful contractor by reason of any error omission on his part, due to his neglect in complying with the requirements of this article.

3. BIDDING DOCUMENTS

A. ISSUANCE

1. The drawings and specifications of preceding bid packages may not be issued with the drawings and specifications of this bid package, but are included by reference in the Table of Contents. Contractors bidding on work in this bid package are responsible for knowing what work has preceded this bid package and how it affects its work. In order to assist contractors in this effort, the contract documents from preceding or simultaneous bid packages will be available for review at the Construction Manager's FTP site; bids.ediscompany.com. Bidders requesting the log on information may obtain user name and password permission by contacting Cyndi Slothour with EDiS Company at [cslothour@ediscompany.com](mailto:cslothour@ediscompany.com). Bidding documents will be made

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available to qualified bidders only. are advised that no change orders will be allowed that are based on ignorance of work assigned in preceding or simultaneous bid packages.

2. Bidding Documents will not be issued to subcontractors or other individuals or organizations who will not be contracting directly with the Owner.
3. The complete set of Bidding Documents shall be used in preparing bids; neither the Owner, the Architect nor the Construction Manager assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
4. The Owner, Architect, and the Construction Manager, in making copies of Bidding Documents available on the above terms, do so only for the purpose of obtaining bids on the Work and do not confer a license or grant for any other use.

B. INTERPRETATION OR CORRECTION OF BIDDING DOCUMENTS

1. Bidders shall examine the Bidding Documents carefully and shall promptly notify the Construction Manager of any ambiguity, inconsistency or error which they may discover. No request for adjustment of Contract Time or Sum shall be permitted with regard to any purported ambiguity, inconsistency or error not promptly noticed to the Construction Manager.
2. Bidders requiring clarification or interpretation of the Bidding Documents shall make a written request to the Construction Manager to reach him at least seven days prior to the date of receipt of bids.
3. Any interpretation, correction or change of the Bidding Documents will be made by Addendum. Interpretations, corrections, or changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon such interpretations, corrections, and changes.

C. SUBSTITUTIONS

1. Refer to Specification Section 016200 - MATERIAL AND EQUIPMENT.
2. Substitution requests must be made at least seven (7) days prior to the receipt of bids.

D. ADDENDA

1. Addenda will be emailed, mailed, faxed or delivered to each person or firm

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recorded by the Construction Manager as having received a complete set of the Bidding Documents, and will be available for inspection wherever the Bidding Documents are kept available for that purpose.

2. Sub-Bidders, Suppliers, Manufacturers and others wishing to have Addenda mailed free of charge directly to them should address a letter to the Construction Manager requesting a listing on the Addenda mailing list for this Project. Such letter must include no other subject matter, must clearly identify this Project by name, and must indicate, line for line, exactly how the name and address is to be typed on the envelope. Phone requests will not be accepted. The Construction Manager will endeavor, but expressly does not promise, to mail Addenda directly to those who have properly requested. Such mailing list is for this one Project only.
3. Addenda issued during the time of bidding shall be listed on Bid form in the space provided. Failure of a Bidder to receive any Addendum shall not release the Bidder from any obligations under his Bid, provided said addendum was sent by fax or by U.S. Mail to the address furnished by the bidder for transmittal of mail. Faxed Addenda will be confirmed by U. S. Mail.
4. No Addenda will be issued later than three (3) days prior to the date for receipt of Bids, except an Addendum withdrawing the request for Bids or one which extends the time or changes the location for the opening of Bids.

4. BIDDING PROCEDURE

A. FORM AND STYLE OF BIDS

1. Bids shall be submitted in triplicate upon the proposal form included in these specifications, or upon an exact copy of it.
2. The Bidder shall complete all blank spaces on the Bid form.
3. Where indicated on the Bid form, sums shall be expressed in both words and figures. In case of discrepancy between the two, the written amount shall govern.
4. Any interlineation, alteration or erasure of an entry made in a blank space of the form must be initialed by the signer of the Bid. However, no interlineation, alteration or erasure shall be made in the wording printed on the bid form unless the Bidder is instructed by the Bidding Documents to do so. The Bidders shall add no stipulations or qualifications on the Bid form or accompanying the bid form unless permitted by or instructed by the Bidding Documents to do so.

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5. All requested quantities, unit prices and alternates shall be included as part of the bid.
  6. All signatures shall be in long hand.
  7. The Bidder shall include on the Bid Form, within the Base Bid total costs associated with providing both the Labor and Material Payment and Performance Bonds.
  8. The Bidder shall affix his seal to the bid form, if organized as a corporation.

B. SUBMISSION OF BIDS

1. Bids shall be deposited at the designated location prior to the time and date for receipt of Bids indicated in the Invitation to Bid, or any extension thereof made by Addendum. The time and location of the bid opening may be extended with a minimum of two (2) calendar days notice to the Bidders. Bids received after the time and date for receipt of Bids will be marked "LATE BID" and returned.
2. The Bid Proposal (3 copies) shall be enclosed in a sealed envelope. The envelope shall be addressed to the Owner, and shall be identified with the Project name, the Bidder's name and address and the Unit of Work included in the Bid.
3. If the Bidder submits his Bid by mail, he shall enclose the above described sealed envelope in a separate mailing envelope with the notation "BID ENCLOSED" on the face thereof.
4. Bids shall include a fully executed Bid Bond, Power of Attorney, Non-collusion Statement, Consent of Surety and Subcontractor listing.

C. MODIFICATION OR WITHDRAWAL OF BID

1. A Bidder may modify his Bid in writing at any time prior to the time scheduled for receiving Bids, provided such written modification is received by the Construction Manager prior to said time.
2. Unless specifically authorized, faxed bids will not be considered.
3. No Bidder shall modify, withdraw or cancel his Bid or any part thereof for NINETY (90) days after the time designed for the receipt of Bids, in the Invitation to Bid. Any further extension of the time will be by mutual consent of the Owner and the Contractor.
4. A Bid may be withdrawn up until the time scheduled for receiving the Bids.

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Such withdrawal shall be in writing.

5. CONSIDERATIONS OF BIDS

A. OPENING OF BIDS

1. Bid shall be publicly opened and read aloud.

B. REJECTION OF BIDS

1. The Owner, in its sole discretion, shall have the right to reject any or all bids for any reason or for no reason whatsoever.

C. ACCEPTANCE OF BIDS

1. The Owner, in its sole discretion, shall have the right to waive any informality or irregularity in any Bid received.
2. The Owner shall have the right to accept Alternates in any order or combination.

6. SUBCONTRACT INFORMATION

A. SUBMISSION OF SUBCONTRACTOR LIST

1. Should the Contractor fail to utilize any or all of the Subcontractors in the Contractor's Bid statement in the performance of the Work on the public bidding, the Contractor shall be penalized in the amount of (project specific amount \*). The Agency may determine to deduct payment of the penalty from the Contractor or have the amount paid directly to the Agency. Any penalty amount assessed against the Contractor may be remitted or refunded, in whole or in part, by the Agency awarding the Contract, only if it is established to the satisfaction of the Agency that the Subcontractor in question has defaulted or is no longer engaged in such business. No claim for the remission or refund of any penalty shall be granted unless an application is filed within one year after the liability of the successful Bidder accrues. All penalty amounts assessed and not refunded or remitted to the Contractor shall be reverted to the State.

\* one (1) percent of the contract amount not to exceed \$10,000.

2. Upon request of the Construction Manager, the Bidder shall within seven (7) days of the request submit a list of the other subcontractors or other persons or organizations (including those who are to furnish materials or equipment fabricated to a special design) if any, proposed for the various portions of the

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Work not included in the subcontractors list submitted with the bid.

3. The Bidder will be required to establish to the satisfaction of the Construction Manager the capability and experience of all proposed subcontractors to furnish and perform the work described in the sections of the specifications pertaining to such proposed subcontractor's respective trades.
4. Subcontractors and other persons and organizations proposed by the Bidder and accepted by the Owner must be used on the work for which they were proposed and accepted, and shall not be changed except with the written approval of the Construction Manager.

7. EQUALITY OF EMPLOYMENT OPPORTUNITY ON PUBLIC WORKS

During the performance of this Contract, the Contractor agrees as follows:

- A. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, sex or national origin. The Contractor will take affirmative action to ensure the applicants are employed, and that employees are treated during employment, without regard to their race, creed, color, sex or national origin. Such action shall include, but not be limited to, the following: Employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training including apprenticeship. The Contractor agrees to post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting agency setting forth this nondiscrimination clause.
- B. The Contractor will, in all solicitants or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color sex, or national origin.
- C. The term "Contract for public works" means construction, reconstruction, demolition, alteration and repair work and maintenance work paid for, in whole or in part, with public funds.
- D. The Secretary of the Department of Labor shall be responsible for the administration of this section and shall adopt such rules and regulations and issue such orders as he deems necessary to achieve the purpose thereof, provided that no requirement established hereby shall be in conflict with subchapter 6904 of this title.

8. PREVAILING WAGE REQUIREMENT

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- A. Wage Provisions: In accordance with Delaware Code, Title 29, Section 6960, renovation projects whose total cost shall exceed \$15,000 and \$100,000 for new construction, the minimum wage rates for various classes of laborers and mechanics shall be as determined by the Department of Labor, Division of Industrial Affairs of the State of Delaware.
- B. The prevailing wage shall be the wage paid to a majority of employees performing similar work as reported in the Department's annual prevailing wage survey or in the absence of a majority, the average paid to all employees reported.
- C. The Contractor shall pay all mechanics and labors employed directly upon the site of work, unconditionally and not less often than once a week and without subsequent deduction or rebate on any account the full amounts accrued at time of payment, computed at wage rates not less than those stated in the specifications, regardless of any contractual relationship which may be alleged to exist between the employer and such laborers and mechanics.
- D. The scale of the wages to be paid shall be posted by the employer in a prominent and easily accessible place at the site of the work.
- E. Every contract based upon these specifications shall contain a stipulation that certified sworn payroll reports be maintained by every Contractor and Subcontractor performing work upon the site of construction. The Contractor and Subcontractor shall keep and maintain the sworn payroll information for a period of 2 years from the last day of the work week covered by the payroll. A certified copy of these payroll reports shall be made available: 1) Effective June 30, 2007, all Contractors performing work on public work projects are required to furnish sworn payroll records on a weekly basis to the Department of Labor. Specifically, 29 Del. C. § 6960(c) states that "(e) every contract... shall contain a stipulation that sworn payroll information, as required by the Department of Labor, be furnished weekly." Further, that "(t) he Department of Labor shall keep and maintain the sworn payroll information for a period of 6 months from the last day of the work week covered by the payroll." Lastly, the failure to submit payroll reports shall be subject to a civil penalty of not less than \$1,000 nor more than \$5,000 for each violation. 29 Del. C. § 6960(e). Sworn payroll information shall consist of a fully completed and notarized report on a form provided upon request by the Department of Labor. *See Delaware Prevailing Wage Regulations VII A.2(c)*"; 2) upon request by the public or for copies thereof. However, a request by the public must be made through the Department of Labor. The requesting party shall, prior to being provided the records, reimburse the costs of preparation by the Department of Labor in accordance with the Department's copying fee policy. The public shall not be given access to the records at the principal office of the Contractor or Subcontractor; and 3) the certified payroll records shall be on a form

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provided by the Department of Labor or shall contain the same information as the form provided by the Department and shall be provided within 10 days from receipt of notice requesting the records from the Department of Labor.

9. PERFORMANCE AND PAYMENT BONDS

- A. The Contractor shall be required to furnish bonds covering the faithful performance of the contract and the payment of all obligations arising thereunder with such sureties secured through the Bidder's usual sources as may be agreeable to the parties. The Owner shall be noted as the obligee (Red Clay Consolidated School District).
- B. The performance and payment bonds shall each be in an amount equal to 100% of the Contract Sum as adjusted from time to time. The Owner shall be noted as the obligee (Red Clay Consolidated School District).
- C. TIME OF DELIVERY AND FORM OF BONDS
  - 1. The Bidder shall deliver the required bonds within seven (7) days from receipt of request from the Construction Manager.
  - 2. The performance and payment bonds shall be written in the form found in Section 00600 Bonds.
  - 3. The required bonds shall be by an authorized agent of the bonding company and shall be accompanied by a certified and current copy of the bonding agent's Power of Attorney, indicating the monetary limit of such power. The bonding company shall be licensed to operate in the state which the work is to be performed.

10. EXECUTION OF AGREEMENT

- A. The Agreement will be written on a contract form, stipulated by the Owner, a copy of which is included in the Specifications.
- B. The Bidder shall, within seven (7) days following its presentation, execute the Agreement and return it to the Construction Manager.
- C. The Bidder agrees to commence work within seven (7) days of 1) execution of the Agreement, or 2) receipt of a Letter of Intent to execute the Agreement, or other authorization to proceed, if furnished at an earlier date.
- D. If the successful Bidder fails to execute the required Contract and Bond, as aforesaid, within twenty (20) days after the date of official Notice of the Award of the Contract,

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their Bid guaranty shall immediately be taken and become the property of the State for the benefit of the Agency as liquidated damages, and not as a forfeiture or as a penalty. Award will then be made to the next lowest qualified Bidder of the Work or re-advertised, as the Agency may decide.

11. GENERAL COMMENTS

A. JOINT VENTURE AGREEMENTS

In the event of a mandatory pre-bid meeting, representatives of both Joint Ventures must attend the pre-bid meeting and must be an officer and co-joint venture of the corporations involved.

Each Joint Venture shall be qualified and capable to complete the project with their own forces.

Included with the bid submission, and as a requirement to bid, a copy of the executed Joint Venture Agreement shall be submitted and signed by all Joint Ventures involved.

All required bid bonds, performance bonds, material and labor payment bonds must be executed by both Joint Ventures and be placed in both of their names.

All required insurance certificates shall name both Joint Ventures.

Both Joint Ventures shall sign the bid form and shall submit a valid Delaware Business License with their bid.

Both Joint Ventures shall include their Federal E. I. Number with the bid.

Due to exceptional circumstances and for good cause shown, one or more of these provisions may be waived at the discretion of the Owner.

B. BUSINESS LICENSES FOR SUBCONTRACTORS

The successful Bidder shall provide to the agency to which it is contracting, within 30 days of entering into such public works contract, copies of all Delaware Business licenses and taxpayer identification number (i.e. federal employer identification number or social security number) of subcontractors and/or independent contractors that will perform work for such public works contract. However, if a subcontractor or independent contractor is hired or contracted more than 20 days after the Bidder entered the public works contract the Delaware Business license of such subcontractor or independent contractor shall be provided to the agency within 10 days of being contracted or hired.

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C. BONDING REQUIREMENTS FOR NON-RESIDENT CONTRACTORS

All non-resident contractors are reminded that they must supply a surety or cash bond to the Division of Revenue equal to six percent (6%) of the total of all contracts exceeding \$20,000 for construction within this state. For Division of Revenue purposes, cash bonds and bank letters of credit issued by financial institutions will be accepted on all contracts.

D. CONTRACT AWARD TO NON-RESIDENT CONTRACTORS

Every architect, or professional engineer or contractor or construction manager engaging in the practice of such profession shall furnish the Department of Finance within 10 days after entering into any contract with a contractor or subcontractor not a resident of this State, a statement of the total value of such contract or contracts together with the names and addresses of the contracting parties.

E. STATE LICENSE AND TAX REQUIREMENTS

The Contractor and Subcontractor shall be licensed to do business in the State of Delaware and shall pay all fees and taxes due under State laws. In conformance with Section 2503, Chapter 25, Title 30, Delaware Code, "the Contractor shall furnish the State Tax Department within ten (10) days after award of the Contract, a statement of the total values of each contract and subcontract, together with the names and addresses of the contracting parties . All contractors are required to submit a copy of their City of Wilmington and New Castle County business license to the construction Manager.

F. RIGHT TO AUDIT RECORDS

The Owner (contracting agency) shall have the right to audit the books and records of a Contractor or any Subcontractor under any Contract or Subcontract to the extent that the books and records relate to the performance of the Contract or Subcontract.

Said books and records shall be maintained by the Contractor for a period of three (3) years from the date of final payment under the Prime Contract and by the Subcontractor for a period of three (3) years from the date of final payment under the Subcontract.

G. PREQUALIFICATION

Not applicable.

H. LIQUIDATED DAMAGES

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~~Not Applicable~~ **Contractors shall be held liable for liquidated damages if work is not completed prior to the completion date. Details regarding liquidated damages can be found in Specification Section 011100 Summary of Work, Item AK on page 011100-7. (Addendum No. 1)**

I. PREFERENCE FOR DELAWARE LABOR

In the construction of all public works for the State or any political subdivision thereof or by firms contracting with the State or any political subdivision thereof, preference in employment of laborers, workers or mechanics shall be given to bona fide legal citizens of the State who have established citizenship by residence of at least 90 days in the State. Each public works contract for the construction of public works for the State or any political subdivision thereof shall contain a stipulation that any persons, company or corporation who violates this section shall pay a penalty to the Secretary of Finance equal to the amount of compensation paid to any person in violation of this section.

END OF SECTION

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Contract A-01 Carpentry & General Works

BID FORM

For Bids Due: \_\_\_\_\_ To: Red Clay Consolidated School District  
1502 Spruce Avenue  
Wilmington, DE 19805

Name of Bidder: \_\_\_\_\_

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

Contact Name: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Delaware Business License No.: \_\_\_\_\_ Taxpayer ID No.: \_\_\_\_\_

(Other License Nos.): \_\_\_\_\_

**(A copy of Bidder's Delaware Business License must be attached to this form.)**

Phone No.: ( ) \_\_\_\_\_ - \_\_\_\_\_ Fax No.: ( ) \_\_\_\_\_ - \_\_\_\_\_

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ \_\_\_\_\_ (\$ \_\_\_\_\_)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 1: Modifications to Vestibule Entrance and Offices.

Add/Deduct \_\_\_\_\_ (\$ \_\_\_\_\_)

Alternate No. 2: Storage Room in lieu of Toilet Room 110.

Add/Deduct \_\_\_\_\_ (\$ \_\_\_\_\_)

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UNIT PRICES

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices:

	<u>Add</u>	<u>Deduct</u>
1. Price per square foot to furnish and install new ceiling grid and tiles. This price includes the demolition of the existing grid, supporting existing electrical, mechanical, fire alarm, fire sprinkler, speaker, etc. Preparation of existing surfaces, and all required grid anchors and accessories.	_____	_____
2. Price per square foot to furnish and install new acoustical tiles. This price includes the removal and disposal of the existing tiles.	_____	_____

NOTE: The difference in price between Add and Deduct in the above Unit Prices should not exceed fifteen percent (15%).

I/We acknowledge Addendums numbered \_\_\_\_\_ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By \_\_\_\_\_ Trading as \_\_\_\_\_  
(Individual's / General Partner's / Corporate Name)  
\_\_\_\_\_  
(State of Corporation)

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

Witness: \_\_\_\_\_ By: \_\_\_\_\_  
(SEAL) ( Authorized Signature )  
\_\_\_\_\_  
( Title )  
Date: \_\_\_\_\_

ATTACHMENTS

- Sub-Contractor List
- Non-Collusion Statement
- Bid Bond
- Consent of Surety
- Delaware Business License
- Affidavit of Employee Drug Testing Program
- (Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 6962 (d)(10)b Delaware Code, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor must be listed for each category where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the Owner, **it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.**

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City &amp; State)</u>	<u>Subcontractors tax payer ID # or Delaware Business license #</u>
1. Carpentry & General Works	_____	_____	_____
2. Demolition	_____	_____	_____
3. ACT	_____	_____	_____
4. Flooring	_____	_____	_____
5. Glass & Glazing	_____	_____	_____
6. Painting	_____	_____	_____

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NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date.

All the terms and conditions of A-01 Carpentry & General Works have been thoroughly examined and are understood.

NAME OF BIDDER: \_\_\_\_\_

AUTHORIZED REPRESENTATIVE  
(TYPED): \_\_\_\_\_

AUTHORIZED REPRESENTATIVE  
(SIGNATURE): \_\_\_\_\_

TITLE: \_\_\_\_\_

ADDRESS OF BIDDER: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_. NOTARY PUBLIC \_\_\_\_\_.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

**BID BOND**

TO ACCOMPANY PROPOSAL  
(Not necessary if security is used)

KNOW ALL MEN BY THESE PRESENTS That: \_\_\_\_\_ of  
\_\_\_\_\_ in the County of \_\_\_\_\_ and State of \_\_\_\_\_ as  
Principal, and \_\_\_\_\_ of \_\_\_\_\_ in the County of \_\_\_\_\_  
\_\_\_\_\_ and State of \_\_\_\_\_ as Surety, legally authorized to do business in the State of Delaware  
("State"), are held and firmly unto the Red Clay Consolidated School District in the sum of \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_), or percent not to exceed \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_ ) of amount of bid on Contract No. A-01 Carpentry & General Works  
to be paid to the Red Clay Consolidated School District for the use and benefit of the Red Clay Consolidated School  
District for which payment well and truly to be made, we do bind ourselves, our and each of our heirs, executors,  
administrators, and successors, jointly and severally for and in the whole firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH That if the above bounden Principal who has submitted to the  
Red Clay Consolidated School District a certain proposal to enter into this contract for the furnishing of certain material  
and/or services within the State, shall be awarded this Contract, and if said Principal shall well and truly enter into and  
execute this Contract as may be required by the terms of this Contract and approved by the Red Clay Consolidated School  
District this Contract to be entered into within twenty days after the date of official notice of the award thereof in  
accordance with the terms of said proposal, then this obligation shall be void or else to be and remain in full force and  
virtue.

Sealed with \_\_\_\_\_ seal and dated this \_\_\_ day of \_\_\_\_\_ in the year of our Lord two thousand  
and \_\_\_\_\_ (20\_\_).

SEALED, AND DELIVERED IN THE PRESENCE OF

\_\_\_\_\_  
Name of Bidder (Organization)

Corporate Seal	By: _____ Authorized Signature
Attest _____	_____ Title
Witness _____	_____ Name of Surety
	_____ Title

---

CONSENT OF SURETY

DATE \_\_\_\_\_

To:

Gentlemen:

We, the \_\_\_\_\_

\_\_\_\_\_  
(Surety Company's Address)

\_\_\_\_\_  
a Surety Company authorized to do business in the State of Delaware hereby agrees that if

\_\_\_\_\_  
(Contractor)

\_\_\_\_\_  
(Address)

is awarded the Contract No. \_\_\_\_\_

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

\_\_\_\_\_  
(Surety Company)

By \_\_\_\_\_  
(Attorney-in-Fact)

---

**AFFIDAVIT  
OF  
EMPLOYEE DRUG TESTING PROGRAM**

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite that complies with this regulation:

**Contractor/Subcontractor Name:** \_\_\_\_\_

**Contractor/Subcontractor Address:** \_\_\_\_\_

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

**Authorized Representative (typed or printed):** \_\_\_\_\_

**Authorized Representative (signature):** \_\_\_\_\_

**Title:** \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_. NOTARY PUBLIC \_\_\_\_\_.

**THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.**

END OF SECTION

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Contract A-02 Mechanical and Plumbing

BID FORM

For Bids Due: \_\_\_\_\_ To: Red Clay Consolidated School District  
1502 Spruce Avenue  
Wilmington, DE 19805

Name of Bidder: \_\_\_\_\_

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

Contact Name: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Delaware Business License No.: \_\_\_\_\_ Taxpayer ID No.: \_\_\_\_\_

(Other License Nos.): \_\_\_\_\_

**(A copy of Bidder's Delaware Business License must be attached to this form.)**

Phone No.: ( ) \_\_\_\_\_ - \_\_\_\_\_ Fax No.: ( ) \_\_\_\_\_ - \_\_\_\_\_

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ \_\_\_\_\_ (\$ \_\_\_\_\_)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 1: Modifications to Vestibule Entrance and Offices.

Add/Deduct \_\_\_\_\_ (\$ \_\_\_\_\_)

Alternate No. 2: Storage Room in lieu of Toilet Room 110.

Add/Deduct \_\_\_\_\_ (\$ \_\_\_\_\_)

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UNIT PRICES

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices: N/A

NOTE: The difference in price between Add and Deduct in the above Unit Prices should not exceed fifteen percent (15%).

I/We acknowledge Addendums numbered \_\_\_\_\_ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By \_\_\_\_\_ Trading as \_\_\_\_\_  
(Individual's / General Partner's / Corporate Name)  
\_\_\_\_\_  
(State of Corporation)

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

Witness: \_\_\_\_\_ By: \_\_\_\_\_  
(SEAL) ( Authorized Signature )  
\_\_\_\_\_

---

( Title )  
Date: \_\_\_\_\_

ATTACHMENTS

Sub-Contractor List  
Non-Collusion Statement  
Bid Bond  
Consent of Surety  
Delaware Business License  
Affidavit of Employee Drug Testing Program  
(Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 6962 (d)(10)b Delaware Code, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor must be listed for each category where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the Owner, **it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.**

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City &amp; State)</u>	<u>Subcontractors tax payer ID # or Delaware Business license #</u>
1. Mechanical	_____	_____	_____
2. Plumbing	_____	_____	_____
3. Sheet Metal	_____	_____	_____
4. Insulation	_____	_____	_____
5. Direct-Digital Control System (Supply)	_____	_____	_____
6. Direct-Digital Control System (Install)	_____	_____	_____
7. Testing, Adjusting & Balancing	_____	_____	_____

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NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date.

All the terms and conditions of A-02 Mechanical and Plumbing have been thoroughly examined and are understood.

NAME OF BIDDER: \_\_\_\_\_

AUTHORIZED REPRESENTATIVE  
(TYPED): \_\_\_\_\_

AUTHORIZED REPRESENTATIVE  
(SIGNATURE): \_\_\_\_\_

TITLE: \_\_\_\_\_

ADDRESS OF BIDDER: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_. NOTARY PUBLIC \_\_\_\_\_.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

**BID BOND**

TO ACCOMPANY PROPOSAL  
(Not necessary if security is used)

KNOW ALL MEN BY THESE PRESENTS That: \_\_\_\_\_ of  
\_\_\_\_\_ in the County of \_\_\_\_\_ and State of \_\_\_\_\_ as  
Principal, and \_\_\_\_\_ of \_\_\_\_\_ in the County of \_\_\_\_\_  
\_\_\_\_\_ and State of \_\_\_\_\_ as Surety, legally authorized to do business in the State of Delaware  
("State"), are held and firmly unto the Red Clay Consolidated School District in the sum of \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_), or percent not to exceed \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_) of amount of bid on Contract No. A-02 Mechanical and Plumbing to  
be paid to the Red Clay Consolidated School District for the use and benefit of the Red Clay Consolidated School District  
for which payment well and truly to be made, we do bind ourselves, our and each of our heirs, executors, administrators,  
and successors, jointly and severally for and in the whole firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH That if the above bounden Principal who has submitted to the  
Red Clay Consolidated School District a certain proposal to enter into this contract for the furnishing of certain material  
and/or services within the State, shall be awarded this Contract, and if said Principal shall well and truly enter into and  
execute this Contract as may be required by the terms of this Contract and approved by the Red Clay Consolidated School  
District this Contract to be entered into within twenty days after the date of official notice of the award thereof in  
accordance with the terms of said proposal, then this obligation shall be void or else to be and remain in full force and  
virtue.

Sealed with \_\_\_\_\_ seal and dated this \_\_\_ day of \_\_\_\_\_ in the year of our Lord two thousand  
and \_\_\_\_\_ (20\_\_).

SEALED, AND DELIVERED IN THE PRESENCE OF

\_\_\_\_\_  
Name of Bidder (Organization)

Corporate  
Seal  
Attest \_\_\_\_\_

By: \_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Title

Witness \_\_\_\_\_

\_\_\_\_\_  
Name of Surety

\_\_\_\_\_  
Title

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CONSENT OF SURETY

DATE \_\_\_\_\_

To:

Gentlemen:

We, the \_\_\_\_\_

\_\_\_\_\_  
(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

\_\_\_\_\_  
(Contractor)

\_\_\_\_\_  
(Address)

is awarded the Contract No. \_\_\_\_\_

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

\_\_\_\_\_  
(Surety Company)

By \_\_\_\_\_  
(Attorney-in-Fact)

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**AFFIDAVIT  
OF  
EMPLOYEE DRUG TESTING PROGRAM**

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite that complies with this regulation:

**Contractor/Subcontractor Name:** \_\_\_\_\_

**Contractor/Subcontractor Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Authorized Representative (typed or printed):** \_\_\_\_\_

**Authorized Representative (signature):** \_\_\_\_\_

**Title:** \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_. NOTARY PUBLIC \_\_\_\_\_.

**THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.**

END OF SECTION

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Contract A-03 Electrical & Fire Alarm

BID FORM

For Bids Due: \_\_\_\_\_ To: Red Clay Consolidated School District  
1502 Spruce Avenue  
Wilmington, DE 19805

Name of Bidder: \_\_\_\_\_

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

Contact Name: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Delaware Business License No.: \_\_\_\_\_ Taxpayer ID No.: \_\_\_\_\_

(Other License Nos.): \_\_\_\_\_

**(A copy of Bidder's Delaware Business License must be attached to this form.)**

Phone No.: ( ) \_\_\_\_\_ - \_\_\_\_\_ Fax No.: ( ) \_\_\_\_\_ - \_\_\_\_\_

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ \_\_\_\_\_ (\$ \_\_\_\_\_)

ALTERNATES

Alternate prices conform to applicable project specification section. Refer to specifications for a complete description of the following Alternates. An "ADD" or "DEDUCT" amount is indicated by the crossed out part that does not apply.

Alternate No. 1: Modifications to Vestibule Entrance and Offices.

Add/Deduct \_\_\_\_\_ (\$ \_\_\_\_\_)

Alternate No. 2: Storage Room in lieu of Toilet Room 110.

Add/Deduct \_\_\_\_\_ (\$ \_\_\_\_\_)

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UNIT PRICES

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices: N/A

NOTE: The difference in price between Add and Deduct in the above Unit Prices should not exceed fifteen percent (15%).

I/We acknowledge Addendums numbered \_\_\_\_\_ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By \_\_\_\_\_ Trading as \_\_\_\_\_  
(Individual's / General Partner's / Corporate Name)  
\_\_\_\_\_  
(State of Corporation)

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

Witness: \_\_\_\_\_ By: \_\_\_\_\_  
( Authorized Signature )

---

(SEAL)

\_\_\_\_\_  
( Title )

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

ATTACHMENTS

- Sub-Contractor List
- Non-Collusion Statement
- Bid Bond
- Consent of Surety
- Delaware Business License
- Affidavit of Employee Drug Testing Program
- (Others as Required by Project Manuals)

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SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 6962 (d)(10)b Delaware Code, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor must be listed for each category where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the Owner, **it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.**

<u>Subcontractor</u> <u>Category</u>	<u>Subcontractor</u>	<u>Address (City &amp; State)</u>	<u>Subcontractors tax payer ID #</u> <u>or Delaware Business license #</u>
1. Electrical	_____	_____	_____
2. Fire Alarm	_____	_____	_____

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NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date.

All the terms and conditions of A-03 Electrical & Fire Alarm have been thoroughly examined and are understood.

NAME OF BIDDER: \_\_\_\_\_

AUTHORIZED REPRESENTATIVE  
(TYPED): \_\_\_\_\_

AUTHORIZED REPRESENTATIVE  
(SIGNATURE): \_\_\_\_\_

TITLE: \_\_\_\_\_

ADDRESS OF BIDDER: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_. NOTARY PUBLIC \_\_\_\_\_.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

**BID BOND**

TO ACCOMPANY PROPOSAL  
(Not necessary if security is used)

KNOW ALL MEN BY THESE PRESENTS That: \_\_\_\_\_ of  
\_\_\_\_\_ in the County of \_\_\_\_\_ and State of \_\_\_\_\_ as  
Principal, and \_\_\_\_\_ of \_\_\_\_\_ in the County of \_\_\_\_\_  
\_\_\_\_\_ and State of \_\_\_\_\_ as Surety, legally authorized to do business in the State of Delaware  
("State"), are held and firmly unto the Red Clay Consolidated School District in the sum of \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_), or percent not to exceed \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_) of amount of bid on Contract No. A-03 Electrical & Fire Alarm  
to be paid to the Red Clay Consolidated School District for the use and benefit of the Red Clay Consolidated School  
District for which payment well and truly to be made, we do bind ourselves, our and each of our heirs, executors,  
administrators, and successors, jointly and severally for and in the whole firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH That if the above bounden Principal who has submitted to the  
Red Clay Consolidated School District a certain proposal to enter into this contract for the furnishing of certain material  
and/or services within the State, shall be awarded this Contract, and if said Principal shall well and truly enter into and  
execute this Contract as may be required by the terms of this Contract and approved by the Red Clay Consolidated School  
District this Contract to be entered into within twenty days after the date of official notice of the award thereof in  
accordance with the terms of said proposal, then this obligation shall be void or else to be and remain in full force and  
virtue.

Sealed with \_\_\_\_\_ seal and dated this \_\_\_ day of \_\_\_\_\_ in the year of our Lord two thousand  
and \_\_\_\_\_ (20\_\_).

SEALED, AND DELIVERED IN THE PRESENCE OF

\_\_\_\_\_  
Name of Bidder (Organization)

Corporate Seal	By: _____ Authorized Signature
Attest _____	_____ Title
Witness _____	_____ Name of Surety
	_____ Title

---

CONSENT OF SURETY

DATE \_\_\_\_\_

To:

Gentlemen:

We, the \_\_\_\_\_

\_\_\_\_\_  
(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

\_\_\_\_\_  
(Contractor)

\_\_\_\_\_  
(Address)

is awarded the Contract No. \_\_\_\_\_

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

\_\_\_\_\_  
(Surety Company)

By \_\_\_\_\_  
(Attorney-in-Fact)

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**AFFIDAVIT  
OF  
EMPLOYEE DRUG TESTING PROGRAM**

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite that complies with this regulation:

**Contractor/Subcontractor Name:** \_\_\_\_\_

**Contractor/Subcontractor Address:** \_\_\_\_\_

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

**Authorized Representative (typed or printed):** \_\_\_\_\_

**Authorized Representative (signature):** \_\_\_\_\_

**Title:** \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_. NOTARY PUBLIC \_\_\_\_\_.

**THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.**

END OF SECTION

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SECTION 101100 - SUMMARY OF WORK

1. RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Sections, apply to work of this Section.

2. CONTRACTS

- A. The work will be performed under separate prime contracts managed by the Construction Manager.

3. ALTERATIONS & COORDINATION

- A. Contractor shall be responsible to coordinate their work with the work of others, including, but not limited to, the preparation of general coordination drawings, diagrams and schedules, and control of site utilization, from the beginning of activity, through project close-out and warranty periods.

4. KNOWLEDGE OF CONTRACT REQUIREMENTS

- A. The Contractor and his Subcontractors, Sub-subcontractors and material men shall consult in detail the Contract Documents for instructions and requirements pertaining to the Work, and at his and their cost, shall provide all labor, materials, equipment and services necessary to furnish, install and complete the work in strict conformance with all provisions thereof.
- B. The Contractor will be held to have examined the site of the Work prior to submitting his proposal and informed himself, his Subcontractors, Sub-subcontractors and material men of all existing conditions affecting the execution of the Work.
- C. The Contractor will be held to have examined the Contract Documents and modifications thereto, as they may affect subdivisions of the Work and informed himself, his Subcontractors, Sub-subcontractors and material men of all conditions thereof affecting the execution of the Work.
- D. The Scope of Work for the Contract is not necessarily limited to the description of each section of the Specifications and the illustrations shown on the Drawings. Include all minor items not expressly indicated in the Contract Documents, or as might be found necessary as a result of field conditions, in order to complete the Work as it is intended, without any gaps between the various subdivisions of work.
- E. The Contractor will be held to be thoroughly familiar with all conditions affecting labor in the area of the Project including, but not limited to, Unions, incentive pay,

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procurements, living, parking and commuting conditions and to have informed his Subcontractors and Sub-subcontractors thereof.

5. CONTRACT DOCUMENTS INFORMATION

- A. The Contract Documents are prepared in accordance with available information as to existing conditions and locations. If, during construction, conditions are revealed at variance with the Contract Documents, notify the Construction Manager immediately, but no more than three (3) days from the day the variance is first known. Failure to give timely notice shall operate to waive any claim Contractor might otherwise have for an adjustment to Contract Time or Sum as a consequence of such variance.
- B. The Specifications determine the kinds and methods of installation of the various materials, the Drawings establish the quantities, dimensions and details of materials, the schedules on the Drawings give the location, type and extent of the materials.
- C. Dimensions given on the Drawings govern scale measurements and large scale drawings govern small scale drawings, except as to anything omitted unless such omission is expressly noted on the large scale drawings.
- D. The techniques or methods of specifying to record requirements varies throughout text, and may include "prescriptive", "open generic/descriptive", "compliance with standards", "performance", "proprietary", or a combination of these. The methods used for specifying one unit of work has no bearing on requirements for another unit of work.
- E. Whenever a material, article or piece of equipment is referred to in the singular number in the Contract Documents, it shall be the same as referring to it in the plural. As many such materials, articles or pieces of equipment shall be provided as are required to complete the Work.
- F. Whenever a material, article or piece of equipment is specified by reference to a governmental, trade association of similar standard, it shall comply with the requirements of the latest publication thereof and amendments thereto in effect on the bid date.
- G. In addition to the requirements of the Contract Documents, Contractor's work shall also comply with applicable standards of the construction industry and those industry standards are made a part of Contract Documents by reference, as if copied directly into Contract Documents, or as if published copies were bound herein.
- H. Where compliance with two (2) or more industry standards, contract requirements, or sets of requirements is specified, and overlapping of those different standards or requirements establishes different or conflicting minimums or levels of quality, then the most stringent requirements, which are generally recognized to be also the most costly, is

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intended and will be enforced, unless specifically detailed language written into the Contract Documents clearly indicates that a less stringent requirement is to be fulfilled. Refer apparently equal but different requirements, and uncertainties as to which level of quality is more stringent, to Architect for decision before proceeding.

- I. Reference standards referenced directly in Contract Documents or by governing regulations have precedence over non-reference standards which are recognized in industry for applicability of work.
- J. Contractor's bid is based on the complete set of Contract Documents including documents not specifically issued as part of the bid pack but referenced in same.

6. SCOPE OF WORK/GENERAL INFORMATION

- A. A Scope of Work for each contract to be awarded on the project follows in this section. When a Contract has been awarded to a Contractor, the successful Contractor will be listed after the title of the Contract. When no Contract has yet been awarded, no Contractor's name will be listed. Previous Scopes of Work include addendum changes.
- B. Contractor is responsible for performing the work listed in the Summary of Work for his contract. Contractor is also responsible for knowing the work that has been assigned to preceding contracts. No additional compensation or extension of time will be allowed a Contractor due to his ignorance of the work assigned to his Contract or to other contracts which may affect his work. The Contractor is responsible, however, for all items which are covered in the Specifications and Drawings relating to their Contract if not specifically mentioned in the Summary of Work.
- C. The Construction Manager will provide on-site a source for temporary electric, temporary water and portable sanitation facilities only. It is each Contractor's responsibility to make the necessary connections, including all material for temporary electric and water. Please note that utility charges for office trailers will be the responsibility of the individual Contractors.
- D. A dumpster will be provided on site for free use by Contractors to dispose of non-hazardous, common, work-related refuse. Clean-up is the responsibility of each Contractor. Clean up shall be performed on a daily basis. Contractors not complying will be advised in writing and back charged for all costs associated with the cleanup of their work.
- E. Contractors are reminded that there are limited storage areas available on site. Off-site storage will be the responsibility of each individual Contractor.
- F. Office trailer permits off site will be the responsibility of each individual Contractor. On site Contractor's field offices, one (1) per Contractor, if required, will be located as

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directed by the Construction Manager.

- G. Contractor will be prepared to discuss and submit a detailed project schedule seven (7) days after receipt of Notice to Proceed and to begin its submittal process. The Project Schedule is an integral part of this contract. Certain construction sequences and priorities must take place in order to meet the target dates. Concentrated work periods will occur and each Contractor is responsible to staff the project as required by the current Construction Schedule or as directed by the Construction Manager. Contractor will cooperate with the Construction Manager in planning and meeting the required sequences of work and Project Schedule as periodically updated by the Construction Manager.
- H. All bids must include insurance limits in accordance with Article 11 of the Section 007300 SUPPLEMENTARY CONDITIONS.
- I. Hoisting, scaffolding and material handling is the responsibility of each Contractor, unless otherwise noted.
- J. Contractor will be responsible for layout of its own work. The Construction Manager will provide benchmark and layout of the building line.
- K. Contractor will be responsible to keep clean public roadways soiled by construction traffic on a daily basis. If cleaning is not done, the Construction Manager may perform the cleaning on an overtime basis and backcharge the Contractor responsible.
- L. Contractor Scopes of Work and Schedule are interrelated. Familiarity with each is required.
- M. The Construction Manager will provide testing services for soil, concrete and steel. Other testing as required by the Contract Documents will be in accordance with the technical specifications and/or the individual scope of work. Refer to Specification Section 004500 - QUALITY CONTROL.
- N. Safety is the responsibility of each individual Contractor. The project will be governed under the guidelines of OSHA.
- O. Inter-Contractor shop drawing distribution will be performed by the Construction Manager. Contractor is individually responsible for either coordinating his work with these distributed drawings or notifying the Construction Manager, in writing, of any discrepancies.
- P. Coordination with other trades will be required. The Contractor will be required to attend periodic coordination meetings with other trades where requirements, conflicts and coordination issues will be discussed and resolved. Attendance when requested will

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be mandatory. If inter-Contractor coordination is not satisfactorily performed, the conflicting Contractors shall mutually share the cost to relocate and/or reinstall their work.

- Q. Contractor shall submit a schedule of values to the Construction Manager prior to the submission of their first invoice for approval through Building Blok.
- R. Contractor is expected to review and coordinate its Work with the complete set of Contract Documents, including all items noted as by his trade whether or not shown on that particular set of drawings. Documents are available at the site for review.
- S. Contractor is responsible for obtaining all necessary permits required for his work, including street permits. Unless otherwise noted, building permit shall be secured by the Construction Manager. Any subcontractor who will be restricting access to street, right of way or adjacent property must notify the Construction Manager 48 hours in advance.
- T. Contractor's License: Submit a copy of all business licenses required by local and state agencies.
- U. Contractor shall absorb, without additional compensation, any and all costs of working beyond normal hours to maintain job progress in accordance with the current construction schedule.
- V. No asbestos or PCB's in or on any material or equipment will be accepted or allowed on this project. All hazardous materials will be treated in accordance with all State and Federal regulations.
- W. Daily cleanup of the work is the responsibility of each individual Contractor which includes broom cleaning of their debris as required. Contractor will be individually back charged by the Construction Manager for clean up not satisfactorily performed by the Contractor.
- X. In the event asbestos is uncovered, the Contractor shall notify the Construction Manager of the areas requiring removal of asbestos. The Construction Manager shall then coordinate the removal with the Owner.
- Y. This project is to be constructed adjacent to and in existing buildings. Contractor shall exercise all due precautions to minimize noise, air pollution and any other construction hazards which in any way would cause discomfort or danger to the occupants of the existing building in the area.
- Z. The Safety Cable System shall not be altered or removed without a written request submitted to the Project Manager with a copy to the Field Manager. It shall be the responsibility of each and every Contractor that is removing or altering the Safety Cable

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System to maintain the fall protection safety provided by the safety cable and not leave the area unprotected. Each and every Contractor shall be responsible to re-install the Safety Cable System immediately after work is completed. Each and every Contractor shall be responsible to re-install the Safety Cable System in accordance to OSHA standards.

- AA. Normal work hours for this project are from 7:00 a.m. to 3:30 p.m. Any work to be performed outside of these hours must receive prior approval from the Construction Manager. Requests to work beyond normal work hours shall be submitted at least 48 hours prior.
- AB. Contractor is responsible for having a competent project superintendent/foreman on-site during all work performed under its contract.
- AC. In the event the Contractor has non-English speaking employees or subcontractors on the project, they shall have a superintendent or foreman on site, at all times, who speaks English and can communicate with Contractor's employees. Should the Contractor fail to meet this requirement, at any time, Construction Manager may direct all Work to stop until the proper supervision is on site. The Contractor will be responsible for maintaining the project work schedule and make up at its own expense, any delay to the Schedule resulting from the work stoppage.
- AD. Punch List Procedures: Contractor shall be given a copy of the punch list with his appropriate work identified. Contractor shall have nine (9) calendar work days to complete its punch list work. On the 10th day or as determined by the Construction Manager, the Construction Manager shall employ other contractors, as required, to complete any incomplete punch list work and retain from the appropriate Contractors retainage all costs incurred.
- AE. Contractor shall provide the necessary safety barricades and railings required to complete their work and comply with all OSHA, local code and contract specifications.
- AF. Temporary Protection: Provide temporary protection to ensure that no damages occur to existing or new finishes, building components, materials, equipment, etc. In addition, provide all approved signage and safety devices applicable to the referenced temporary protection. An approved temporary protection plan will be required before the initial start of the work.
- AG. Each individual Contractor will provide fine cleanup on a daily basis. Fine cleaning will be defined as those means/methods utilized to ensure that all odors, dust, and debris will be non-existent within the project area at the end of each workday. In addition, means and methods shall be utilized that prevent the migration of odors, dust, debris, and excessive noise from migrating into non-working areas. An approved cleanup plan will be required before the initial start of the work. The construction manager reserves the

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right to stop the work, or any portion thereof, upon failure to provide the required cleaning. Contractors will be individually back charged by the Construction Manager for cleanup not satisfactorily performed by the Contractor.

- AH. The building will be occupied during construction. Contractor must provide Exhaust Purifiers / Scrubbers when any equipment produces airborne contaminants and will be used in an enclosed building. The Contractor shall verify air quality by the use of air monitoring equipment and document such verified air quality on the daily report. The monitoring equipment shall, at a minimum, be designed with an auditory alarm and shall provide continuous monitoring of these four gases: Oxygen, Hydrogen Sulfide, Carbon Monoxide and Combustible gases.
- AI. Contractors are advised that work areas will not be completely cleared of furniture and equipment. Contractors will have to work around existing furniture and equipment.
- AK. **Liquidated Damages:** Contractors are responsible to provide sufficient manpower and equipment and materials to complete work as shown in the project schedule. Any delays in completing a phase of work due to issues caused by a contractor will be subject to a penalty of \$1,000 per calendar day that the work is not completed following the scheduled completion date.

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CONTRACT NO. A-01 - CARPENTRY AND GENERAL WORK

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 024100	Demolition
Section 040511	Masonry, Mortaring, and Grouting
Section 042000	Unit Masonry
<del>Section 047200</del>	<del>Cast Stone Masonry</del>
Section 061000	Rough Carpentry
Section 062000	Finish Carpentry
Section 072100	Thermal Insulation
Section 076200	Sheet Metal Flashing and Trim
Section 078400	Firestopping
Section 079005	Joint Sealants
Section 081113	Hollow Metal Doors and Frames
Section 083100	Access Doors and Panels
Section 084100	Aluminum Framed Entrance and Doors
Section 084113	Aluminum Framed Storefront
Section 084113.10	Aluminum Framed Storefronts – Interior
Section 087100	Door Hardware
Section 081416	Flush Wood Doors
Section 088000	Glazing
Section 092116	Gypsum Board Assemblies
Section 093000	Tiling
Section 095100	Acoustical Ceilings
Section 096500	Resilient Flooring
Section 096800	Carpeting
<del>Section 099000</del>	<del>Painting and Coating</del>
Section 101101	Visual Display Boards
<del>Section 101400</del>	<del>Signage</del>
Section 122413	Roller Window Shades

B. This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide complete interior demolition as shown on the architectural drawings. Demolition of existing mechanical, plumbing, and electrical systems is to be provided by the associated contractor.

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2. Provide all labor, material, dumpsters, trucking, equipment, hoisting, scaffolding, power, temporary facilities, supervision, layout, clean up, etc. for the complete performance of all selective demolition work as described and detailed on the drawings.
  3. This Contractor shall notify the Construction Manager immediately if hazardous materials (i.e. asbestos, lead, PCB's, etc.) are uncovered. At that time, all work in the affected area will be stopped until proper removal can be completed by others (i.e. hazardous material abatement contractor).
  4. This Contractor shall provide any and all "fire watch" personnel required due to the Contractor's cutting, burning, welding or other open flame activity.
  5. This Contractor shall visit the site of the proposed work, fully acquaint and familiarize himself with the conditions as they exist and the character of the operations to be carried out under the proposed Contract, and make such investigation as he may see fit so that he shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize himself with all conditions which might affect the work shall not be allowed.
  6. This Contractor, in the performance of the Work under his contract, shall maintain all required means of egress from the existing buildings and alter such stairs, platforms and fire escapes as required to satisfy all agencies having jurisdiction.
  7. The references to the alternates are highlights of the work to be performed under this Summary of Work. These items are listed to clarify the Scope of Work, but are not intended to be an all-inclusive list of the work required for the respective alternate. This contractor is responsible for reading and understanding all sections of the specifications and all drawings provided on the contract documents.
  8. This contractor is responsible for saw cutting and removal of existing masonry walls in all areas where new louvers are scheduled to be installed. This contractor will also furnish and install lintels associated with this work. The Mechanical Contractor shall provide layout of the areas to be removed. Reference Mechanical Drawings M8.2, M8.3 & M8.5 for louver type & locations and Concrete / Steel Lintel Schedule on Dwg. A6.1. Provide temporary protection so as to not leave the school unprotected at any time.
  9. Patch areas damaged by demolition. Patch areas to match existing conditions.
  10. Rooms 207T remove existing toilet partitions & install new to match existing. Patch areas damaged by demolition. Contractor to remove and reinstall the existing toilet accessories back on the new partitions.
  11. Toilet Room 210T - Remove mirror and provide new.

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12. This contractor is responsible for Construction Keynotes C-16 & C-17 on Dwg. A3.1.
  13. Provide temporary protection of the existing floors using masonite prior to the start of demolition. This protection will be maintained throughout the project or until directed by the Construction Manager to be removed. This Contractor will remove and dispose of the masonite at the end of construction.
    - a. Base Bid: Office 105, A1 Intervention, Conference Room 106, Principals Office 106A, Corridor 1, and Corridor 2.
    - b. Alternate No.1: A1 Intervention, Conference Room 106, Principals Office 106A, Corridor 1, and Corridor 2.
  14. Remove, Store and Reinstall acoustical ceiling grid and components in Office 105, A1 Intervention, Conference Room 106, Principals Office 106A and Corridor 1 to facilitate the removal & installation of the new mechanical system. Remove and dispose of the existing ceiling tiles and provide new to match existing (Armstrong Cortega Second Look). Reference Construction Keynote C-15 on Dwg. A3.2 and Dwg. M8.1, First Floor Mechanical Plan.
  15. This contractor is responsible for Construction Keynotes C-12, C-13 & C-14 on Dwg. A3.2. This work is to be coordinated so as not to leave any part of the building unsecured at any time. Contractor to provide a secure enclosure if installation cannot be completed in the same work day.
  16. This contractor is responsible for Demolition Keynotes D-1, D-2, D-3, D-4, D-5A (hashed area in Corridor 2 Only), D-5B, D-6, & D-10 on Dwg. A3.3. The Mechanical & Plumbing contractor will cut and cap the plumbing associated with Demolition Keynote D-3. The Mechanical and Electrical contractor will support the HVAC and Electrical components associated with Demolition Keynote D-4. (Alternate 1)
  17. Removal of existing VCT flooring in A6 Classroom and 105 Office per Demolition Keynote D-5 & D-5A is not part of this contract. This will be removed by the abatement contractor due to the floor tile mastic containing asbestos. (Alternate 1)
  18. This Contractor shall saw cut, remove the concrete slab and provide protection of exposed openings as required per Dwg. A3.3, Demolition Key Note D-9. The Plumbing Contractor shall provide layout of the areas to be removed. This Contractor to provide concrete slab infill per Dwg. A 3.3, Construction Key Note C-10. (Alternate 1)
  19. This contractor is responsible for Construction Keynotes C-1, C-2, C-3, C-4, C-5, C-5A, C-6, C-7, C-9, C-11 & C-13 on Dwg. A3.3. (Alternate 1)
  20. Provide toilet and bath accessories. Install owner provided toilet accessories.

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21. Provide lintels per head detail H-3 on Dwg. A6.1. (Alternate 1)
  22. Grout 6" CMU solid with vertical reinforcing bar per Jamb Detail J-3 on Dwg A6.1. (Alternate 1)
  23. Provide CMU infill. Tooth in CMU to match existing.
  24. Provide labor and materials to perform the work related to all carpentry and general work.
  25. All rough carpentry related to the exterior skin of the building including wood nailers and blocking and exterior sheathing.
  26. All rough carpentry related to the interior of the building including blocking, wood nailers, etc. for the installation of fire extinguishers, doors, windows, toilet accessories, cabinets, toilet partitions, casework, millwork, etc. including fire treating, as required.
  27. Provide blocking, cutting, flashing, and roof patching for any new penetrations through the existing roof by other trades. This contractor is to provide a weathertight enclosure at all new roof openings. Provide flashing for all new roof curbs.
  28. Provide pitch pocket detail per detail 4 on Dwg M8.3.
  29. Provide supplementary steel for HP-1. This Contractor is responsible for cutting the existing roof deck for duct penetrations after installation of the supplementary steel. Reference detail 3 & 4 on Dwg. 8.4. (Alternate 1)
  30. Provide all doors, frames, and hardware (hollow metal, wood and aluminum), including receipt of doors, frames, and hardware at the curb side.
  31. Power to automatic hardware (Magnetic Hold Opens, Card Reader Access, Remote Push Button Lock, etc.) to be provided by Electrical Contractor. Low voltage wiring from the controller to hardware shall be provided by the Carpentry & General Works Contractor. Reference door schedule on sheet A6.1. Coordinate with Electrical contractor for electrical power requirements.
  32. Keying. All locksets (Hollow Metal, Wood, and Aluminum). Provide owner a copy of pin schedule. Provide construction cylinders.
  33. All field trimming required to adjust to existing conditions.
  34. Provide aluminum-framed storefronts & entrances, glazing, operating hardware, operable sash weather stripping, flashing, metal trim, drip edge, etc.
  35. Provide Break Metal, Flashing and Trim.

36. Provide joint sealants as noted on the contract drawings.
37. Provide metal studs, sheathing, insulation, gypsum wallboard, taping, and spackling.
38. Provide secondary support framing.
39. Provide gypsum bulkheads and ceilings.
40. Provide acoustical panel ceilings, suspension system and hangers.
41. Provide all casework and counter tops and related accessory items as specified and/or indicated on the drawings. Casework includes all hardware, locks, storage components, accessory items, closure, fillers, grommets, brackets and framing necessary for a complete installation. Provide caulk between the millwork and trim to adjacent surfaces.
42. Provide flooring in accordance with the finish schedule and specifications.
43. Patching and leveling of flooring surfaces.
44. Provide rubber base.
45. Anchoring devices, fasteners, inserts and other related items associated with the installation of the above items.
46. This Subcontractor shall at a minimum provide and maintain for the length of the project, one temporary fire extinguisher for each 3,000 sq. ft of the protected building area. Fire extinguishers shall be 10lb, Multi-Purpose (ABC) dry chemical, UL labeled, with a rating of 3a:40bc.
47. Comebacks and out of sequence work may be required and as such should be included.
48. Provide pricing for all alternates as described in Section 012300-Alternates.
49. Provide in the base bid \$20,000 allowance for work as directed by the Construction Manager.
50. Painting is NOT part of this contract.

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CONTRACT NO. A-02 - MECHANICAL AND PLUMBING

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Section 024100	Demolition
Section 078400	Firestopping
Section 079005	Joint Sealers
Division 22	Plumbing
Division 23	Heating, Ventilation, and Air Conditioning (HVAC) Mechanical
Division 26	Electrical

B. This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide a complete mechanical, plumbing and piping system as indicated on the Drawings and in the Specifications.
2. Provide complete demolition and removal from site of all ductwork, piping, hangers, plumbing fixtures and mechanical units as shown on mechanical and plumbing drawings. This contractor is responsible to provide their own dumpsters and recycling for these demolished materials. Provide protection of adjacent floors and finishes during demolition of mechanical and plumbing fixtures, equipment, pipe, etc.
3. Provide permits, fees and licenses required including those of utilities and agencies. Fees shall include connection charges, construction costs and other such change by utility company or service provider. Ascertain such changes during bidding period and include in bid price.
4. Division 26 of the specifications should be reviewed as it relates to the power wiring and other requirements for HVAC equipment including the coordination of furnishing and installing motor starters as provided in the specifications.
5. This Contractor shall be responsible to designate an individual within his organization, intimately familiar with this project and assigned on site, to act as the System Start-up Coordinator. This individual must be pre-approved by the Construction Manager. This individual's responsibilities shall include, but not be limited to, coordinating the start-up of all mechanical equipment, including the coordination between the Electrical Contractor, the Controls Contractor, and all testing, adjusting and balancing work. This individual shall report on a weekly basis, in written form, to the Construction Manager. These reports shall

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include a summary of current conditions including manufacturers' start-ups, systems' deficiencies noted to date and the remediation of same, coordination issues between trades, system interfacing and forecasting, as necessary to project the completion of each individual system within the building.

6. Temporarily support and re-install existing ceiling mounted HVAC grilles, diffusers as required.
7. Penetrations through wall, floors, etc. including cutting, patching and fire safing. Cap and seal all penetrations through walls and ceilings left after demolition of existing pipe or duct. Patch is to provide smoke seal through wall.
8. The Carpentry & General Work Contractor will saw cut and remove the masonry walls and install lintels in all areas where new louvers are scheduled to be installed. This contractor shall provide layout of the areas to be removed.
9. The Carpentry & General Work Contractor will saw cut, remove the concrete slab as required per Dwg. A 3.3, Demolition Keynote D-9. This Contractor shall provide the layout of the areas to be removed. Excavation and backfill for underground mechanical/plumbing work is the responsibility of this Contractor.
10. Provide Custom 14 Gauge FTR Enclosure as indicated on the contract documents.
11. Provide pipe and duct insulation.
12. Provide a direct digital control system for HVAC.
13. Provide louvers and vents related to HVAC operations
14. Hoisting, rigging and scaffolding.
15. Provide complete testing, adjusting, and balancing services for the project.
16. Provide ductwork, flex duct, grilles and diffusers.
17. Provide dampers.
18. Provide roof curbs for new mechanical equipment.
19. Gas piping, meter and pressure regulator valve.
20. Trap priming system.
21. Provide access panels.

22. Permits and inspections.
23. Provide pipe sleeves and thru wall penetrations.
24. Provide insulated metal curb cap per detail 3 on Dwg 8.3.
25. Supplementary steel for HP-1 on Dwg 8.4 will be provided by the Carpentry & General Works Contractor. This Contractor to coordinate layout and openings with the Carpentry & General Works Contractor.
26. Provide relocation of 5 sprinkler heads as part of Base Bid; provide relocation of 15 sprinkler heads as part of Alternate 1. Reference Dwg FP 11.1.
27. Provide as-built drawings in both PDF & CAD format.
28. All warranties begin at overall project substantial completion. Maintain equipment prior to substantial completion.
29. Provide pricing for all alternates as described in Section 012300-Alternates.
30. Provide in the base bid \$10,000 allowance for work as directed by the Construction Manager.

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CONTRACT NO. A-03 – ELECTRICAL & FIRE ALARM

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 1	General Requirements
Division 23	Heating, Ventilation, and Air Conditioning (HVAC) Mechanical
Division 26	Electrical
Section 078400	Firestopping
Section 087100	Door Hardware

B. This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide a complete electrical system as indicated on the drawings, schedules and in the specifications.
2. Division 23 of the specifications should be reviewed as it relates to the power wiring and other requirements for HVAC equipment including the coordination of furnishing and installing motor starters and controllers as detailed in the Specifications and on the Drawings.
3. Provide demolition of existing electrical systems as shown in the project documents. This contractor is responsible to provide their own dumpsters and recycling for these demolished materials. Prior to commencement of electrical demolition, provide EDiS written verification that all lines to be demolished have been de-energized and are ready for removal. Provide protection of adjacent floors and finishes during demolition of existing electrical equipment, conduit, etc.
4. Temporarily support /suspend, disconnect, and safe off any ceiling & soffit mounted light fixtures, electrical, fire alarm and specialty systems devices & components as required to facilitate the ceiling & soffit replacement. Refer to Architectural Drawings.
5. Penetrations through wall, floors, etc. including cutting, patching and fire safing. Patch all penetrations through walls left after demolition of existing pipe or wires. Patch is to provide smoke seal through wall.
6. Provide rough-in and final connection and related work for equipment provided under other contracts (i.e. kitchen, elevators, HVAC, sprinkler, motorized doors, etc.). Provide power to automatic hardware. Low voltage wiring from the controller to hardware shall be provided by the Carpentry & General Work Contractor.

7. Permits and inspections.
8. Testing.
9. Hoisting, rigging and scaffolding.
10. Provide modifications and additions to the existing fire alarm system. Provide required wiring extensions to connect fire alarm devices to existing fire alarm control panel.
11. Provide modifications and additions to the existing PA System.
12. Special systems (CCTV, sound, security, time clock, sound masking).
13. Provide as-built drawings in both PDF & CAD Format.
14. Provide power wiring to hold open closers with fire alarm interface.
15. See section Spec Section 262416 Panelboards for descriptions of existing panels.
16. This contractor is to field measure and verify all dimensions of existing equipment.
17. Provide power to automatic hardware (Magnetic Hold Opens, Card Reader Access, Remote Push Button Lock, etc.). Low voltage wiring from the controller to hardware shall be provided by the Carpentry & General Works Contractor. Reference door schedule on sheet A6.1. Coordinate with Carpentry and General Works contractor for electrical power requirements.
18. Provide temporary power and lighting during electrical shut down.
19. All guarantees and warranties to begin at the substantial completion of the entire project.
20. Provide pricing for all alternates as described in Section 012300-Alternates.
21. Provide in the base bid \$10,000 allowance for work as directed by the Construction Manager.