

**ADDENDUM
NO. 2**

October 11, 2024

**Kalamazoo Public Schools
District Kitchen
6750 Chime Street
Kalamazoo, MI 49009**

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated September 20, 2024, by TowerPinkster. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1 through 2-3 and TowerPinkster Addendum No. 02, dated October 9, 2024, consisting of 3 pages, Specification Sections 00 01 10 Table of Contents, 06 61 16 Solid Surfacing Fabrications, 08 06 71 Door Hardware Schedule, 12 24 13 Roller Window Shades, and 1 Revised Drawing.

A. SPECIFICATION SECTION 01 12 00 – MULTIPLE CONTRACT SUMMARY

Paragraph 3.03 BID CATEGORIES

A. BID CATEGORY NO. 1 – SITEWORK

Add the following Specification Section:

1. 33 30 00 Facility Sanitary Sewers

F. BID CATEGORY NO. 06 – GENERAL TRADES

Add the following Specification Sections:

06 61 16 Solid Surface Fabrications
08 06 71 Door Hardware Schedule
12 24 13 Roller Window Shades

Delete the following Specification Sections:

10 75 16 Ground Set Flagpoles
11 52 13 Projection Screens
12 32 00 Manufactured Wood Casework
12 36 16 Metal Countertops

Add the following Clarification:

1. Provide all FRP/Plastic Paneling work, refer to A series drawings for locations.

G. BID CATEGORY NO. 7 – STRUCTURAL & MISCELLANEOUS STEEL

Delete the following Specification Section:

05 21 00 Steel Joist Framing

J. BID CATEGORY NO. 10 – INTERIOR FINISHES

Add the following Clarification:

1. Provide all code compliant top of rated walls stenciling work.

K. BID CATEGORY NO. 13 – MECHANICAL

Delete the following Specification Section:

22 11 13 Facility Water Distribution Piping
22 13 13 Facility Sanitary Sewers
23 81 13 Packaged Terminal Air-Conditioners

O. BID CATEGORY NO. 15 – TECHNOLOGY

Delete the following Specification Sections:

27 13 13 Communications Copper Backbone Cabling
27 13 23 Communications Optical Fiber Backbone Cabling
27 13 33 Communications Coaxial Backbone Cabling
27 15 33 Communications Coaxial Horizontal Cabling
27 18 00 Testing, ID and Admin Of Fiber Infrastructure

P. BID CATEGORY NO. 16 – FOOD SERVICE EQUIPMENT

Add the following Clarification:

1. Provide all metal/stainless steel counter tops, brackets, supports, legs etc., for a complete system and assembly.

B. Refer to the attached Pre-Bid Request For Information Log dated October 10, 2024.

- a. RFI No. 01 through 13 are included.



10/10/2024

RFI #	Company Submitting RFI	Date Received	RFI Description	RFI Response
1	Earley & Associates	9/27/2024	As far as scope of work; 1) Which bid category is to provide and set trench drain in the exterior truck dock? 2) Which bid category provides the bollards and covers? 3) Which bid category installs the light pole bases? For the drawings 1) detail 4 on S301 does not call out the rebar for the footing and wall, nor does it provide footing thickness 2) detail 3 on S301 does not call dimension the size of the footing 3) detail 5 and 6 on S301 does not call out rebar in the walls 4) the wall footing schedule on S101 does not provide the spacing for the transverse rebar	Refer to Addendum No. 1 for Scope of Work items, 1, 2 & 3. Skillman. Refer to Addendum No. 2 for answers to items 1-4.
2	Schepers Concrete	9/30/2024	Do you have a schedule for this project? What scope will be responsible for interior/exterior housekeeping pads? Will the electrician be responsible for light pole bases? Who will furnish the exterior trench drain in the loading dock? I see thermal insulation is not listed under work category 03 – Concrete. Who will provide foundation and under slab insulation? Which contractor will be responsible for the freezer slab insulation and pressure treated lumber around the exterior of the slab? Exterior concrete spec 321313 has white cement listed. There is a significant price increase in this from traditional gray cement. This has been in a number of Tower Pinkster spec sections lately and every time I ask they tell me gray is ok to use. I think it keeps getting copied from a decorative concrete job. Could you confirm if gray cement is acceptable?	Refer to Addendum No. 1 for answers to your questions. Skillman. Grey cement use is acceptable for 321313. TP 10.09.24
3	Stafford-Smith, Inc	10/1/2024	The traulsen model numbers provided for both items reflect one door units however the plans show these units with 2 doors. Can you confirm what you need. Also do you need these units remote or self-contained	These units will be two section units per the plan with self-contained refrigeration systems. TP 10.09.24.
4	Skillman	10/2/2024	Since this wall surrounding the cooler/freezer is a fire rated CMU wall, shouldn't these openings in the CMU wall at the cooler doors be a fire rated door? I understand that they wouldn't want another typical door to open to just get to the cooler door (and a coiling fire door might be the way to go) but seems like just an opening in the CMU wall would defeat the rated CMU wall rating.	For bidding purposes assume no fire rating required on doors. TP 10.09.24.
5	Stafford-Smith, Inc	10/2/2024	I am looking for the Pipe SIZE for the refrigeration. I don't see it noted anywhere. Please advise.	Pipe size to be determined by the Manufacturer of the systems. TP 10.09.24.
6	ElectroMedia	10/2/2024	Bid Category 15, Technology. Print T401 Detail 4 calls for a fiber tray for the WAN fiber. Who is installing the WAN fiber? I don't see any specs or prints depicting fiber other than a fiber tray in the data rack.	WAN Fiber will be installed by KPS Service Provider, MetroNet. TP 10.09.24.
7	Bracy and Jahr, Inc.	10/3/2024	FERO Fast Bracket. This product is listed on the structural drawings but I do not find a spec for them. I don't find them listed in the scope of works, who will be responsible for supplying and installing? Thank you.	Refer to Addendum No. 1. Bid Category No. 4 Masonry will provide the Ferro Fast Brackets. Please keep in mind the term "provide" by definition is to furnish and install a complete assembly. Further reference Section 05 5000 as well as different structural and architectural details. Skillman/TP 10.09.24.
8	Midwest Glass & Mirror	10/7/2024	For this project the spec calls out 5.25"-6" frame depth for the storefront framing, they are also calling for Cross FL-400T doors. Cross uses Tubelite framing members which come in 4.5" or 6.5" frame depths. Tubelite is in the spec for the storefront framing but wouldn't meet the depth requirements. Can I use 4.5" framing to help keep costs lower or does the framing need to be within 5.25" and 6"?	Framing needs to be within the 5.25 and 6" range. TP 10.09.24.
9	Midwest Glass & Mirror	10/7/2024	The door schedule for the project calls out laminated glass for some of the door lights but I don't see a spec for the laminated glass. Is laminated glazing needed for this project or is the 3/8" clear tempered from the specs sufficient?	See forthcoming Addendum. TP 10.09.24.
10	ElectroMedia	10/9/2024	Per addendum 1, we are to provide the WAN Fiber. There are no specs and/or prints for the Fiber. Where is it coming from? What is the distance of the WAN fiber? What type of Fiber? How many Strands? What type of connectors? Please advise.	WAN Fiber will be installed by KPS Service Provider, MetroNet. TP 10.09.24.
11	Skillman	10/9/2024	Are we to provide code required rated wall stenciling above ceilings and in areas with not ceilings?	Yes. Refer to sheets G101 & G102. Bid Category No. 10 Interior Finishes shall provide all top of wall stenciling work. Skillman 10.10.24.
12	Skillman	10/9/2024	Are there provisions on this project for "repeaters" or equipment required for first responder communication? This is something BCC and FCC has been pushing for.	KPS has said in the past "NO they do not need to worry about First Responder "repeaters, she said her security team will handle that if it comes up". - TP 10.09.24.
12	S.A Moreman & Co.	10/9/2024	Section 080671 (Addendum No.1)-Door Hardware Schedule: Set 4.0 Model Number for Corbin Russwin Mortise Exit Device appears to incorrect. Please review and clarify. Set 9.0 Model Number for Corbin Russwin Mortise Exit Device appears to incorrect. Please review and clarify. Opening 105 is shown assigned to both Hardware Sets 11.0 and 14.0. Please review and clarify correct Hardware Set assignment. Opening 105 is shown assigned to both Hardware Sets 11.0 and 14.0. Please review and clarify correct Hardware Set assignment. Set 23.0 (Miscellaneous) has been deleted per Addendum 1. Is this correct?	Set 4.0...ED6500L N9M57LC M54 M110. Delete Pull. Set 9.0...ED5600AL N9M57 x LC M54 M110. Opening 105...Delete 105B from Set 14.0. Set 23.0...Yes, this is correct. TP 10.09.24.

13	AIRTECH	10/9/2024	<p>ERU-1 schedules a VFD for the energy wheel, likely for defrost control. Is stop/jog defrost control acceptable in lieu of using a VFD?</p> <p>AHU-1 has a humidifier section in the schedule, but does not show that section in the unit plan/elevation views. Additionally, there is no humidifier mentioned in the modular indoor AHU specs. Is a humidifier needed for this unit?</p> <p>Is Aeon an acceptable manufacturer for ACCU-1?</p>	<p>Stop/jog defrost control is not an acceptable substitute for the energy wheel VFD. A humidifier is not needed for AHU-1. Aeon is an acceptable manufacturer for the ACCU-1. TP 10.10.24.</p>
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ADDENDUM NO. 2

DATE OF ISSUANCE:	October 9, 2024
PROJECT:	KPS District Kitchen 6750 Chime Street Kalamazoo, MI 49008
OWNER:	Kalamazoo Public Schools
ARCHITECT'S PROJECT NO.:	18-502.00
ORIGINAL BID ISSUE DATE:	September 20, 2024

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes **Three** pages of text and the following documents:

- Bidding Documents: None.
- Contract Conditions: None.
- Specification Sections: **00 0110, 06 6116, 08 0671, 12 2413 [omitted, 12 2300, 123616]**
- Drawings: **A 641**

CHANGES TO PREVIOUSLY ISSUED ADDENDA

Revised spec section 08 0671 Door Hardware Schedule. This section was reissued as part of Addendum No. 1 and is being reissued again with additional corrections.

CHANGES TO BIDDING REQUIREMENTS

None.

CHANGES TO CONTRACT CONDITIONS

None.

CHANGES TO SPECIFICATIONS

ADD-2 Item No. S-1 - Updated Table of Contents

Refer to updated and reissued Specification TOC.

ADD-2 Item No. S-2 - Roller Window Shades

Refer to added Specification Section 12 2413 Roller Window Shades.

ADD-2 Item No. S-3 - Manufactured Wood Casework

Omit section 12 3200 Manufactured Wood Casework. Refer to Section 06 4116 Plastic-Laminate-Faced Architectural Cabinets.

ADD-2 Item No. S-4 - Solid Surface Color and Pattern

Refer to Specification Section: 12 3661 Solid Surfacing Fabrications

Revise text for Item 2.1.A.1 to read as follows:

“1. Product: Subject to compliance with requirements, provide LG Hausys; Hi-Macs.”

Revise text for Item 2.1.A.3 to read as follows:

“3. Color and Pattern: As indicated on material selection schedule.”

ADD-2 Item No. S-5 - Plastic Laminate Countertop Edge Treatment

Refer to Specification Section: 12 3623.13 Plastic Laminate-Clad Countertops

Revise text for Item 2.1.E to read as follows:

- E. Edge Treatment: 3mm (0.12 inch) PVC edge banding.
 - 1. Color to be selected from Manufacturer’s full range.

ADD-2 Item No. S-6 - Metal Countertops

Refer to Specification Section: 12 3616 – Metal Countertops

Omit section 12 3616 Metal Countertops. Stainless steel countertops and equipment is specified in division 11 4000 Food Service Equipment.

ADD-2 Item No. S-7 - Solid Surface Window Stools

Refer to added Specification Section: 06 6116 Solid Surface Fabrications

ADD-2 Item No. S-8 - 08 0671 Door Hardware Schedule

Refer to reissued Door Hardware Schedule:

Changes are highlighted and strike through in the reissued spec section.

CHANGES TO DRAWINGS

ADD-2 Item No. D-1 - Millwork Plans

Refer to Sheet(s): A 641

Updated the material callouts on the millwork details to properly reflect the design intent. Refer to callouts on sheet.

END OF ADDENDUM.

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- 08 1416 - FLUSH WOOD DOORS
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- 26 1300 - MEDIUM-VOLTAGE SWITCHGEAR
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**PROJECT NO. 18502.00
KPS DISTRICT KITCHEN
KALAMAZOO PUBLIC SCHOOLS**

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Add No. 2 10/09/2024**

33 4100 - STORM UTILITY DRAINAGE PIPING

SECTION 06 6116 - SOLID SURFACING FABRICATIONS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Solid-surface-material window stools.

1.2 ACTION SUBMITTALS

- A. Product Data: For solid surfacing materials.
- B. Shop Drawings: For window stools. Show materials, finishes, edge profiles, and methods of joining.

1.3 PROJECT CONDITIONS

- A. Field Measurements: Verify dimensions of fabrications by field measurements.

PART 2 - PRODUCTS

2.1 SOLID-SURFACE-MATERIAL FABRICATIONS

- A. Window Stools: Provide with minimum joints possible as follows:
 - 1. Configuration: Provide window stools with the following configuration:
 - a. Front: Straight, slightly eased at top.
 - 2. Window Stools: 1/2-inch- (12.7-mm-) thick, solid surface material.
 - 3. Fabrication: Fabricate window stools with shop-applied edges unless otherwise indicated. Comply with solid-surface-material manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.

2.2 MATERIALS

- A. Adhesives: Adhesives shall not contain urea formaldehyde.
- B. Solid Surface Material (SSM-2): Homogeneous solid sheets of filled plastic resin complying with ANSI SS1.
 - 1. Product: As indicated on Drawings.
 - 2. Type: Provide Standard Type unless Special Purpose Type is indicated.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install window stools level to a tolerance of 1/8 inch in 8 feet (3 mm in 2.4 m).
- B. Fasten window stools by adhering to substrate. Align adjacent surfaces and, using adhesive in color to match countertop, form seams to comply with manufacturer's written instructions. Carefully dress joints smooth, remove surface scratches, and clean entire surface.

END OF SECTION 06 6116

SECTION 08 0671 – DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section references specification sections relating to commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding Doors.
 - 3. Other doors to the extent indicated.
- B. Commercial door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical and access control door hardware.
 - 3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
 - 4. Automatic operators.
 - 5. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section “Door Hardware”.
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.
- D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service

representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

- F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.5 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.6 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Refer to "PART 3 – EXECUTION" for required specification sections.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

- A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a

hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
 2. The supplier is responsible for handing and sizing all products.
 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Products listed in the hardware sets shall be supplied by and in accordance with the requirements described in the specification section as noted for each item.
1. Section 08 7100 – Door Hardware.
- C. Manufacturer’s Abbreviations:
1. MK - McKinney
 2. PE - Pemko
 3. RU - Corbin Russwin
 4. BE - BEST Locks & Closers
 5. HS - HES
 6. RO - Rockwood
 7. RF - Rixson
 8. NO - Norton
 9. OT - Other

Hardware Sets

Set: 1.0

Doors: 111E

1 Continuous Hinge	CFM-SLF-HD1		PE
1 Storeroom Lock	ML2057 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Electric Strike	1500C	630	HS ⚡
1 Strike Latch Guard	150		HS
1 SMART Pac Bridge Rectifier	2005M3		HS ⚡
1 Surface Closer	CPS7500	689	NO
1 Weatherstrip	Integral to door/frame assembly		OT
1 Sweep	345CNB TKSP		PE
1 Threshold	171A MSES25SS		PE
1 ElectroLynx Harness	QC-C1500P (electric strike to j-box)		MK ⚡

1 Power Supply	Provided by Others	OT	⚡
1 Card Reader	Provided by Others	OT	⚡
1 A-Phone	Provided by Others	OT	

Notes:

Door normally closed and locked.
 Presentation of valid credential at card reader, or intercom unlocks electric strike allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 2.0

Doors: 110C

1 Continuous Hinge	CFM-SLF-HD1		PE
1 Storeroom Lock	ML2057 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Electric Strike	1500C	630	HS ⚡
1 Strike Latch Guard	150		HS
1 SMART Pac Bridge Rectifier	2005M3		HS ⚡
1 Surface Closer	CPS7500	689	NO
1 Weatherstrip	Integral to door/frame assembly		OT
1 Sweep	345CNB TKSP		PE
1 Threshold	171A MSES25SS		PE
1 ElectroLynx Harness	QC-C1500P (electric strike to j-box)		MK ⚡
1 Power Supply	Provided by Others		OT ⚡
1 Card Reader	Provided by Others		OT ⚡

Notes:

Door normally closed and locked.
 Presentation of valid credential at card reader unlocks electric strike allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 3.0

Doors: 001A

1 Continuous Hinge	CFM-SLF-HD1		PE
1 Nightlatch	ED5200S K157ET x LC M110 M54 M52	630	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Rim Cylinder	12E-72 Less Core (with disposable constr core)	626	BE
2 Core	Provided by Kalamazoo Public Schools	626	BE

1 Electric Strike	9700	630	HS	⚡
1 SMART Pac Bridge Rectifier	2005M3		HS	⚡
1 Pull	RM201 Mtg-Type 12XHD	US32D-316	RO	
1 Conc Overhead Stop	6-X36	630	RF	
1 Surface Closer	J7500 x mounting plate, if required	689	NO	
1 Weatherstrip	Integral to door/frame assembly		OT	
1 Sweep	345CNB TKSP		PE	
1 Threshold	171A MSES25SS		PE	
1 ElectroLynx Harness	QC-C1500P (electric strike to j-box)		MK	⚡
1 Power Supply	Provided by Others		OT	⚡
1 Card Reader	Provided by Others		OT	⚡
1 Remote Push Button	Provided by Others		OT	⚡
1 A-Phone	Provided by Others		OT	

Notes:

Door normally closed and locked.
 Presentation of valid credential at card reader, intercom, or remote pushbutton unlocks electric strike allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 4.0

Doors: 112B

2 Continuous Hinge	CFM-SLF-HD1		PE	
2 Flush Bolt	555	US26D	RO	
1 Mortise Exit Device	ED5600 K1M57ET x LC M54 M110	630	RU	
1 Mortise Exit Device	ED5600L N9M57 x LC M54 M110	630	RU	
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE	
1 Core	Provided by Kalamazoo Public Schools	626	BE	
1 Pull	RM201 Mtg-Type 12XHD	US32D-316	RO	
1 Surf Overhead Stop	10-X36	630	RF	
1 Surface Closer	CPS7500	689	NO	
1 Weatherstrip	Integral to door/frame assembly		OT	
2 Sweep	345CNB TKSP		PE	
1 Threshold	171A MSES25SS		PE	

Set: 5.0

Doors: 103A

1 Continuous Hinge	CFM-SLF-HD1		PE	
1 Exit Only	ED5200S EO M110 M54 M51	630	RU	
1 Surface Closer	CPS7500	689	NO	
1 Weatherstrip	Integral to door/frame assembly		OT	

1 Sweep	345CNB TKSP		PE
1 Threshold	171A MSES25SS		PE

Set: 6.0

Doors: 001C

1 Continuous Hinge	CFM-HD1		PE
1 Nightlatch	ED5200S K157ET x LC M110 M54 M52	630	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Rim Cylinder	12E-72 Less Core (with disposable constr core)	626	BE
2 Core	Provided by Kalamazoo Public Schools	626	BE
1 Electric Strike	9700	630	HS ⚡
1 SMART Pac Bridge Rectifier	2005M3		HS ⚡
1 Pull	RM201 Mtg-Type 12XHD	US32D-316	RO
1 Surface Closer	CPS7500 SN-134	689	NO
1 ElectroLynx Harness	QC-C1500P (electric strike to j-box)		MK ⚡
1 Power Supply	Provided by Others		OT ⚡
1 Card Reader	Provided by Others		OT ⚡
1 Remote Push Button	Provided by Others		OT ⚡

Notes:

Door normally closed and locked.
 Presentation of valid credential at card reader or remote pushbutton unlocks electric strike allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 7.0

Doors: 001B

1 Continuous Hinge	CFM-HD1		PE
1 Nightlatch	ED5200S K157ET x LC M110 M54 M52	630	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Rim Cylinder	12E-72 Less Core (with disposable constr core)	626	BE
2 Core	Provided by Kalamazoo Public Schools	626	BE
1 Electric Strike	9700	630	HS ⚡
1 SMART Pac Bridge Rectifier	2005M3		HS ⚡
1 Pull	RM201 Mtg-Type 12XHD	US32D-316	RO
1 Surface Closer	PR7500 SN-134	689	NO
1 Wall Stop	406 / 409	US32D	RO
3 Silencer	608 / 609		RO
1 ElectroLynx Harness	QC-C1500P (electric strike to j-box)		MK ⚡
1 Power Supply	Provided by Others		OT ⚡
1 Card Reader	Provided by Others		OT ⚡

Notes:

Door normally closed and locked.
 Presentation of valid credential at card reader unlocks electric strike allowing ingress.
 Free egress at all times.
 Fail-secure.

Set: 8.0

Doors: 112

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Fire Rated Rim Exit, NL	ED5200A N957ET M110 M54	630	RU
1 Rim Cylinder	12E-72 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	PR7500 SN-134	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Wall Stop	406 / 409	US32D	RO
1 Gasketing	S88BL		PE

Set: 9.0

Doors: 112A

3 Hinge (heavy weight)	T4A3786	US26D	MK
3 Spring Hinge	1502	US26D	MK
1 Flush Bolt	2849 (top only with fire bolt)	US26D	RO
1 Mortise Exit Device	ED5600A N9M57 x LC M54 M110	630	RU
1 Mortise Exit Device	ED5600AL N9M57 x LC M54 M110	630	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Coordinator	2600 Series	US28	RO
1 Mounting Bracket	2601AB / 2601C	US28	RO
1 Surface Closer	CPS7500 SN	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	S88BL		PE
1 Astragal	S773C		PE

Set: 10.0

Doors: 101A, 101B, 106

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Classroom Lock	ML2055 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Wall Stop	406 / 409	US32D	RO
3 Silencer	608 / 609		RO

Set: 11.0

Doors: 100A, 101C, 105B

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Classroom Lock	ML2055 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	7500 SN pull side mount	689	NO
1 Wall Stop	406 / 409	US32D	RO
3 Silencer	608 / 609		RO

Set: 12.0

Doors: 102A

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Classroom Lock	ML2055 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	7500 SN pull side mount	689	NO
1 Wall Stop	406 / 409	US32D	RO
1 Gasketing	S88BL		PE

Set: 13.0

Doors: 105A

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Classroom Lock	ML2004 NSA V01 LC	626	RU
1 Mortise Cylinder	1E-74 Less Core(with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	7500 SN pull side mount	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Wall Stop	406 / 409	US32D	RO
3 Silencer	608 / 609		RO

Set: 14.0

Doors: 103, 105B, 100B, 102

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Classroom Lock	ML2004 NSA V01 LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	PR7500 SN	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Wall Stop	406 / 409	US32D	RO
3 Silencer	608 / 609		RO

Set: 15.0

Doors: 113, 114

3 Hinge, Full Mortise	TA2714	US26D	MK
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1 Privacy Lock	ML2060 NSA M34 V21	626	RU
1 Surface Closer	7500 SN- pull side mount	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Wall Stop	406 / 409	US32D	RO
3 Silencer	608 / 609		RO
1 Coat Hook	796	US26D	RO

Set: 16.0

Doors: 111B

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Storeroom Lock	ML2057 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	PR7500 SN	689	NO
1 Armor Plate	K1050 36" high CSK BEV	US32D	RO
1 Wall Stop	406 / 409	US32D	RO
3 Silencer	608 / 609		RO

Set: 17.0

Doors: 104, 108A

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Storeroom Lock	ML2057 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	7500 SN pull side mount	689	NO
1 Armor Plate	K1050 F 36" high CSK BEV	US32D	RO
1 Wall Stop	406 / 409	US32D	RO
1 Gasketing	S88BL		PE

Set: 17.1

Doors: 112C

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Storeroom Lock	ML2057 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	CPS7500 SN pull side mount	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	S88BL		PE

Set: 18.0

Doors: 110A

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Storeroom Lock	ML2057 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE

1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	PR7500 SN	689	NO
1 Armor Plate	K1050 F 36" high CSK BEV		RO
1 Wall Stop	406 / 409	US32D	RO
1 Gasketing	S88BL		PE

Set: 19.0

Doors: 110B

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Storeroom Lock	ML2057 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	CPS7500 SN	689	NO
1 Armor Plate	K1050 F 36" high CSK BEV	US32D	RO
1 Gasketing	S88BL		PE

Set: 20.0

Doors: 107

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Classroom Lock	ML2055 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surf Overhead Stop	10-X36	630	RF
1 Surface Closer	7500 SN pull side mount	689	NO
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	S88BL		PE

Set: 21.0

Doors: 110E

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Classroom Lock	ML2055 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE
1 Surface Closer	7500 SN pull side mount	689	NO
1 Armor Plate	K1050 F 36" high CSK BEV	US32D	RO
1 Wall Stop	406 / 409	US32D	RO
1 Gasketing	S88BL		PE

Set: 22.0

Doors: 111A

3 Hinge (heavy weight)	T4A3786	US26D	MK
1 Storeroom Lock	ML2057 NSA LC	626	RU
1 Mortise Cylinder	1E-74 Less Core (with disposable constr core)	626	BE
1 Core	Provided by Kalamazoo Public Schools	626	BE

1 Electric Strike	1500C	630	HS	⚡
1 SMART Pac Bridge Rectifier	2005M3		HS	⚡
1 Surface Closer	PR7500 SN	689	NO	
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO	
1 Wall Stop	406 / 409	US32D	RO	
1 Gasketing	S88BL		PE	
1 ElectroLynx Harness	QC-C1500P (electric strike to j-box)		MK	
⚡				
1 Power Supply	Provided by Others		OT	
⚡				
1 Card Reader	Provided by Others		OT	
⚡				

Notes:

Door normally closed and locked.
 Presentation of valid credential at card reader unlocks electric strike allowing ingress.
 Free egress at all times.
 Fail-secure.

END OF SECTION 08 0671

SECTION 12 2413 - ROLLER WINDOW SHADES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Manually operated roller shades with single rollers.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, features, finishes, and operating instructions for roller shades.
- B. Shop Drawings: Show fabrication and installation details for roller shades, including shadeband materials, their orientation to rollers, and their seam and batten locations.
- C. Samples for Initial Selection: For each type and color of shadeband material.
 - 1. Include Samples of accessories involving color selection.
- D. Samples for Verification: For each type of roller shade.
 - 1. Shadeband Material: Not less than **10 inches (250 mm)** square. Mark interior face of material if applicable.
- E. Product Schedule: For roller shades. Use same designations indicated on Drawings.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Certificates: For each type of shadeband material, signed by product manufacturer

1.4 CLOSEOUT SUBMITTALS

- A. maintenance data.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of products.

1.6 DELIVERY, STORAGE, AND HANDLING

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

1.7 FIELD CONDITIONS

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

PART 2 - PRODUCTS

2.1 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product listed, or comparable product by one of the following:
 - 1. Draper Inc.
 - 2. Hunter Douglas Contract.
 - 3. Lutron Electronics Co., Inc.
 - 4. MechoShade Systems, Inc.
- B. Roller Shade (RS-1):
 - 1. Basis of Design Product: Draper, Inc.; Flexshade Manual Roller Shade..
 - 2. Chain-and-Clutch Operating Mechanisms: With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.
 - a. Bead Chains: Stainless steel.
 - 1) Loop Length: Full length of roller shade.
 - 2) Limit Stops: Provide upper and lower ball stops.
 - 3) Chain-Retainer Type: Chain tensioner, jamb mounted.
 - 3. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shadebands for service.
 - a. Roller Drive-End Location: As directed by Architect.
 - b. Shadeband-to-Roller Attachment: Manufacturer's standard method.

- c. Direction of Shadeband Roll: Regular, from back (exterior face) of roller.
4. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.
5. Shadebands:
 - a. Shadeband Material: Type 1.
 - b. Shadeband Bottom (Hem) Bar: Steel or extruded aluminum.
 - 1) Color and Finish: As selected by Architect from manufacturer's full range.
6. Installation Accessories:
 - a. Front Fascia: Aluminum extrusion that conceals front and underside of roller and operating mechanism and attaches to roller endcaps without exposed fasteners.
 - 1) Shape: L-shaped.
 - 2) Height: Manufacturer's standard height required to conceal roller and shadeband assembly when shade is fully open, but not less than 4 inches (102 mm).
 - b. Endcap Covers: To cover exposed endcaps.
 - c. Installation Accessories Color and Finish: As selected from manufacturer's full range.

2.2 SHADEBAND MATERIALS

- A. Shadeband Material Flame-Resistance Rating: Comply with NFPA 701. Testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- B. Light-Filtering Fabric (Type-1 Woven fabric, stain and fade resistant).
 1. Product: Subject to compliance with requirements, provide one of the following:
 - a. Mermet; M Screen.
 - b. Phifer Incorporated; SheerWeave 3560.
 - c. Draper Flexshade
 2. Basis of Design Product: Draper, Flexshade.
 3. Type: PVC-coated polyester.
 4. Weave: Mesh.
 5. Openness Factor: 5 percent.
 6. Color: As selected by Architect from manufacturer's full range.

2.3 ROLLER SHADE FABRICATION

- A. Product Safety Standard: Fabricate roller shades to comply with WCMA A 100.1, including requirements for flexible, chain-loop devices; lead content of components; and warning labels.
- B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F (23 deg C):
 1. Between (Inside) Jamb Installation: Width equal to jamb-to-jamb dimension of opening in which shade is installed less 1/4 inch (6 mm) per side or 1/2-inch (13-mm) total, plus or minus 1/8 inch

(3.1 mm). Length equal to head-to-sill or -floor dimension of opening in which shade is installed less 1/4 inch (6 mm), plus or minus 1/8 inch (3.1 mm).

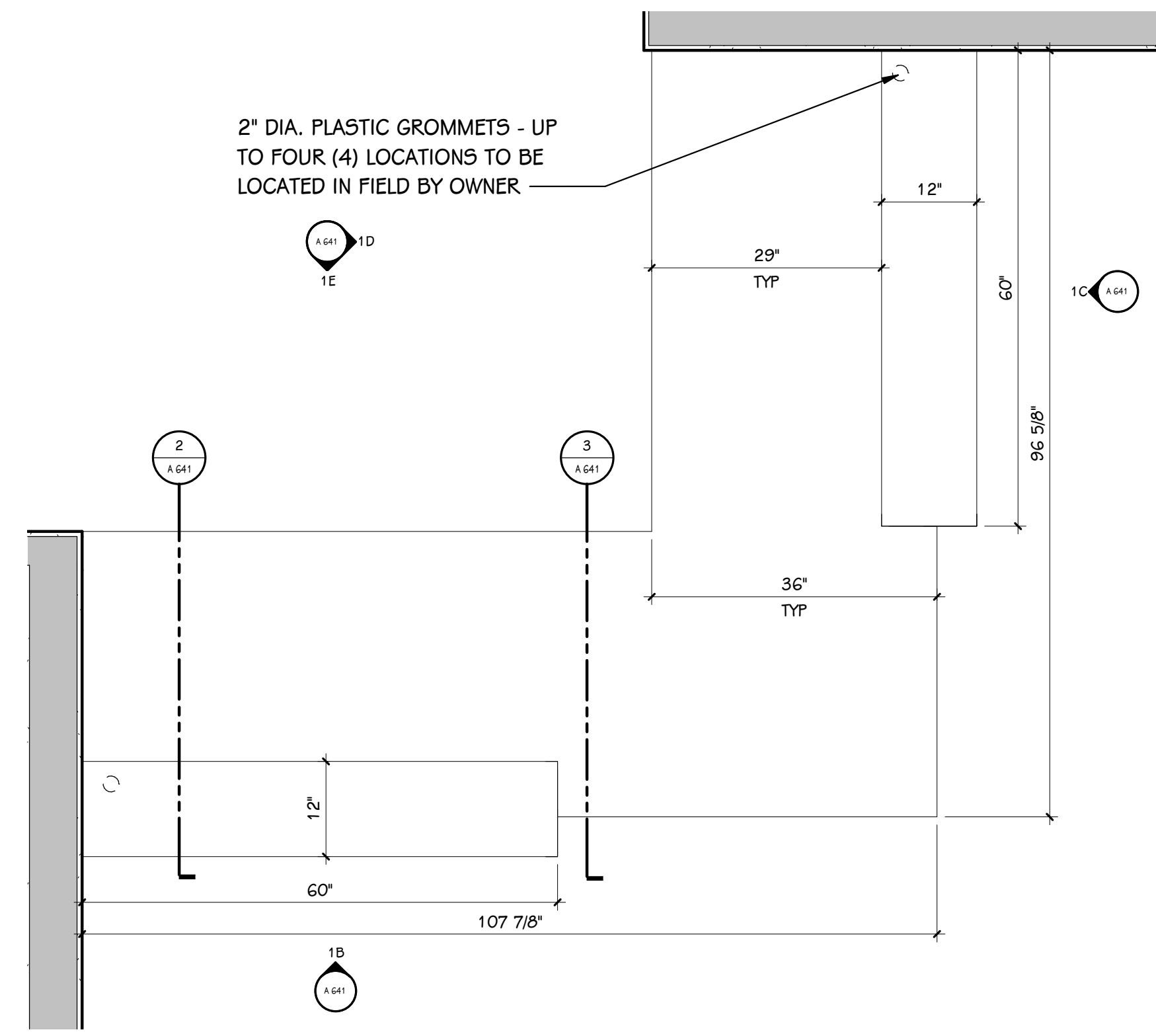
- C. Shadeband Fabrication: Fabricate shadebands without battens or seams to extent possible, except as follows:
1. Vertical Shades: Where width-to-length ratio of shadeband is equal to or greater than 1:4, provide battens and seams at uniform spacings along shadeband length to ensure shadeband tracking and alignment through its full range of movement without distortion of the material.
 2. Railroaded Materials: Railroad material where material roll width is less than the required width of shadeband and where indicated. Provide battens and seams as required by railroaded material to produce shadebands with full roll-width panel(s) plus, if required, one partial roll-width panel located at top of shadeband.

PART 3 - EXECUTION

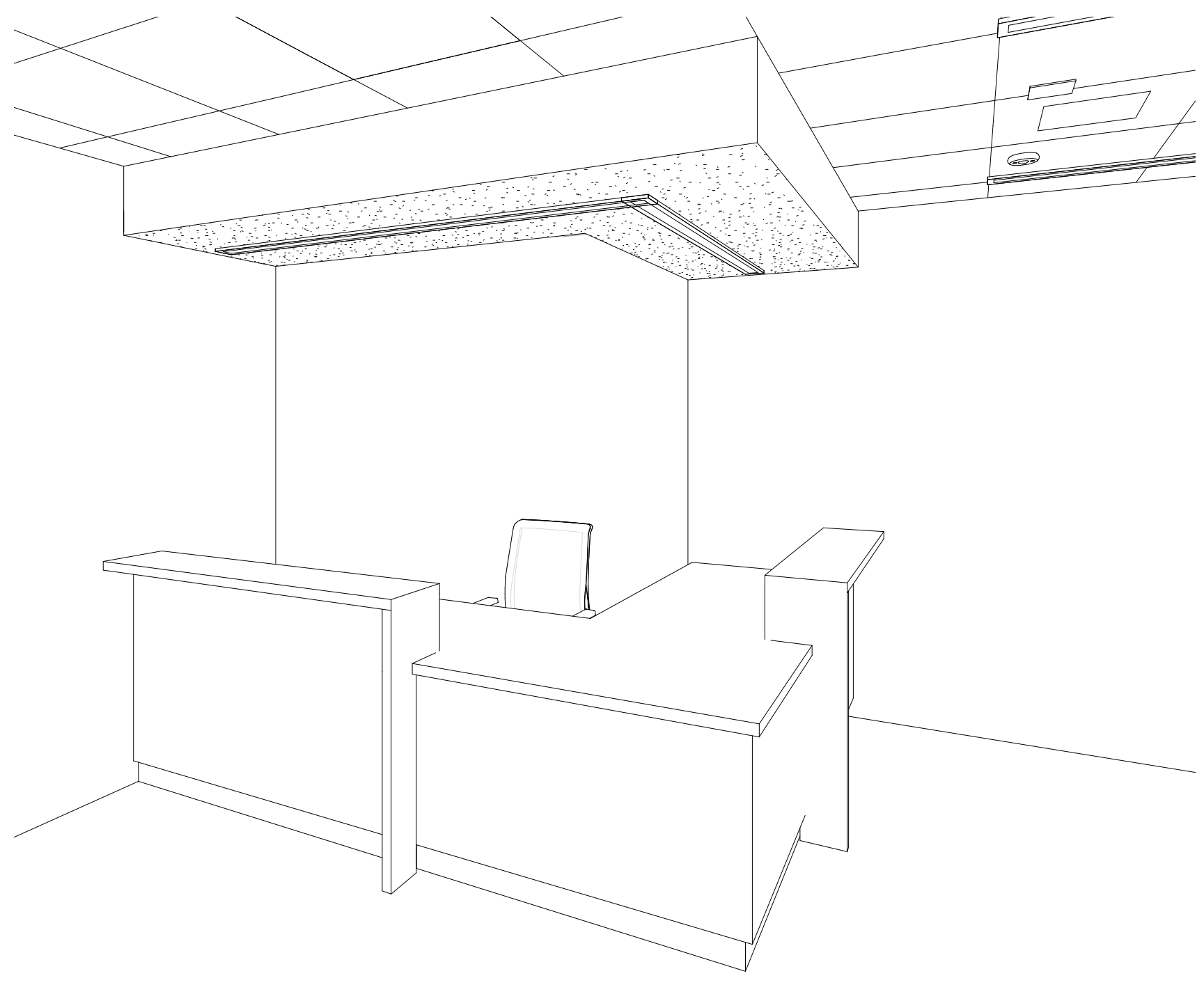
3.1 ROLLER SHADE INSTALLATION

- A. Examination: Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, and other conditions affecting performance of the Work.
1. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions.
- C. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.
- D. Clean roller shade surfaces, after installation, according to manufacturer's written instructions.
- E. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

END OF SECTION 12 2413



1 RECEPTION 100
A 641 3/4" = 1'-0"



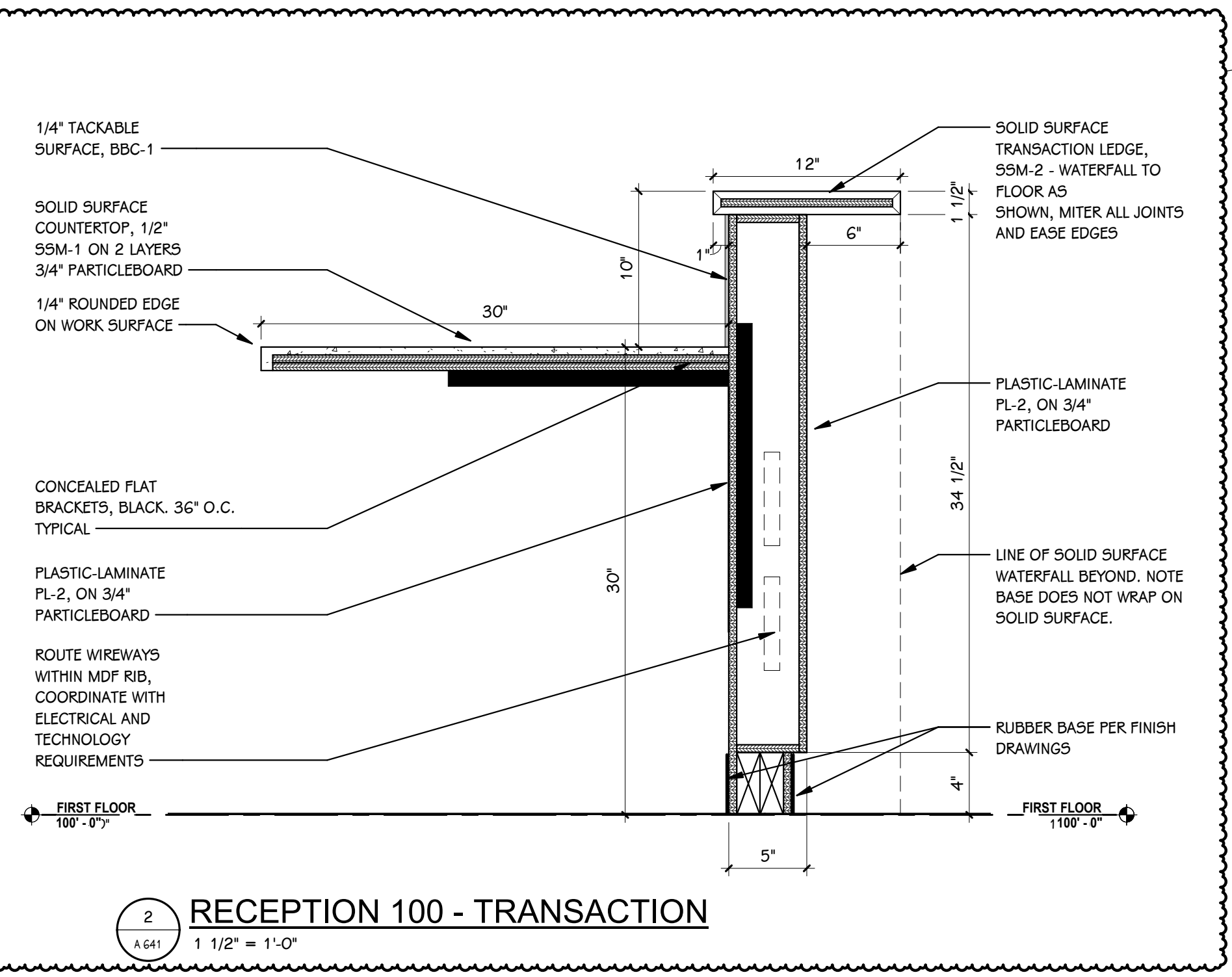
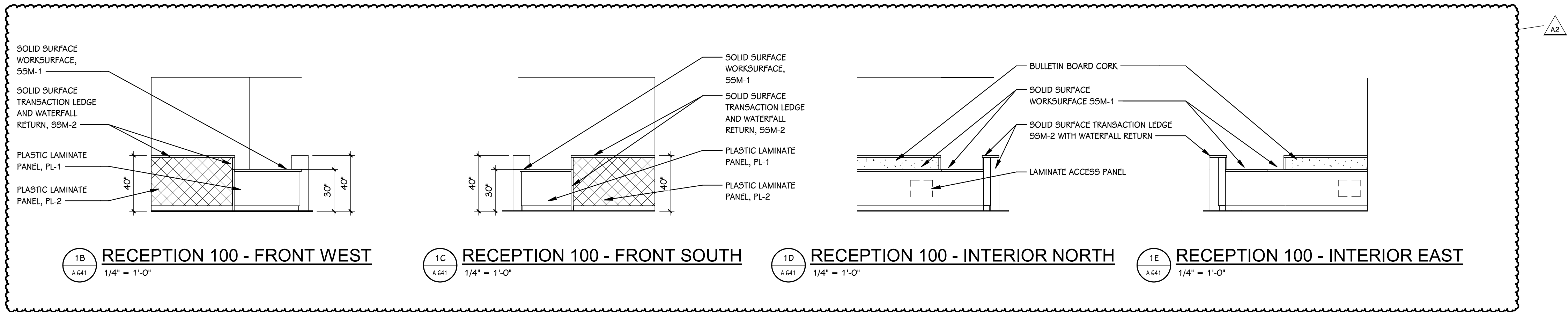
1A 3D VIEW - RECEPTION DESK
A 641

GENERAL NOTES - CASEWORK

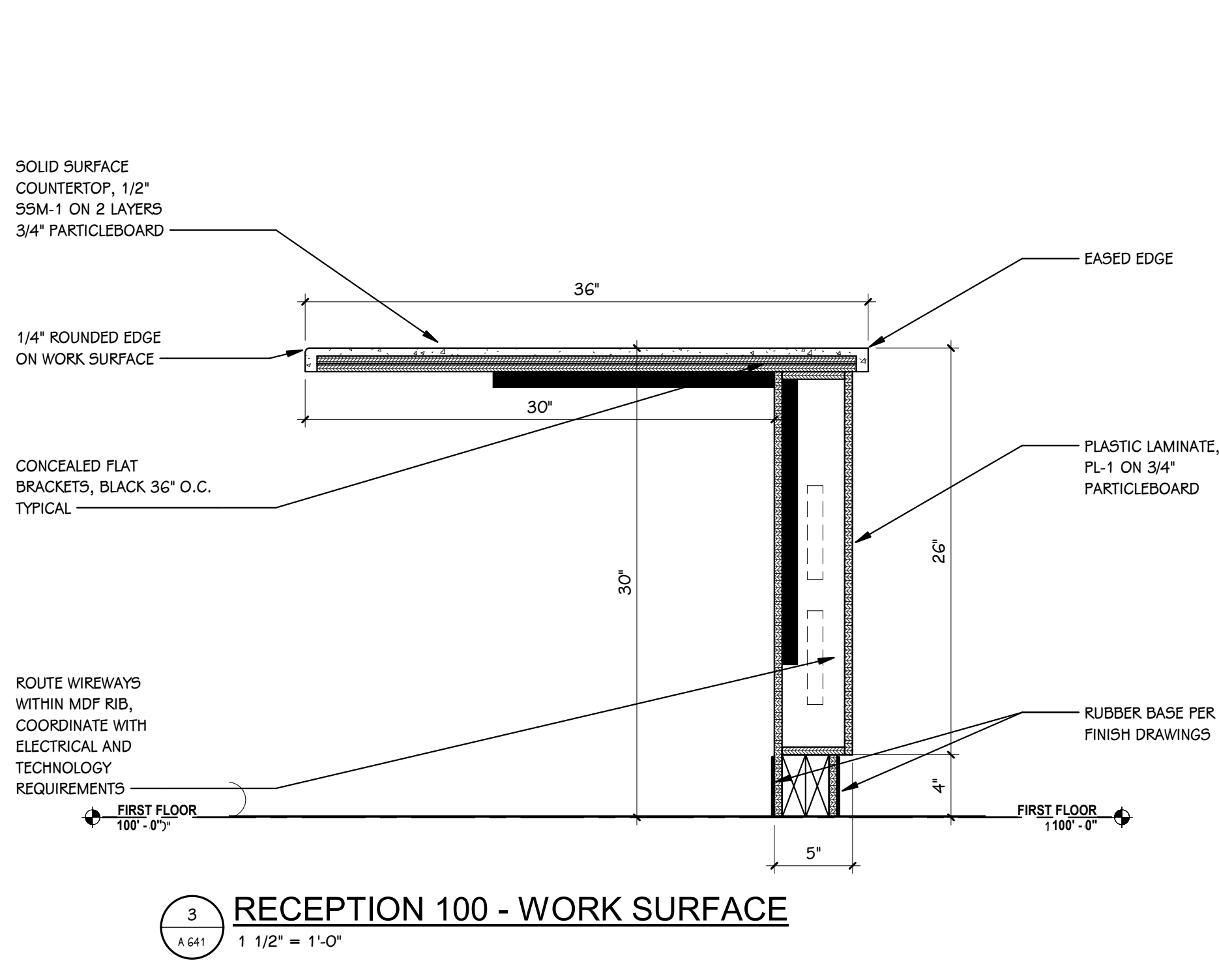
- VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION.
- FILLER PANELS SHALL BE NO LESS THAN 2" WIDE, UNLESS NOTED OTHERWISE.
- REFER TO FLOOR FINISH PLANS FOR CASEWORK AND COUNTERTOP FINISHES BY ROOM.
- FINISH ANY EXPOSED END PANELS, UNDERSIDE OF CABINETS OR OPEN CABINETS, WITH PLASTIC LAMINATE SPECIFIED FOR FRONTS IN THAT ROOM.
- ALL VERTICAL AND HORIZONTAL EXPOSED AND SEMI-EXPOSED SURFACES TO BE FINISHED WITH BODY PLASTIC LAMINATE.
- PATTERN OR GRAIN DIRECTION TO BE VERTICAL ON DOORS AND HORIZONTAL ON DRAWERS - PER AWI STANDARDS, UNLESS NOTED OTHERWISE.
- LOCKS TO BE KEYPED ALIKE PER ROOM
- EDGE/BAND SELECTIONS
 - AT LOCATIONS OF PL-1 USE CHARTER INDUSTRIES WILSONART FRENCH LINEN
 - AT LOCATIONS OF PL-2 USE CHARTER INDUSTRIES FASHION GREY

STANDARD ABBREVIATIONS FOR CASEWORK

ADJ	ADJUSTABLE
FP	FILLER PANEL
RP	REMOVABLE PANEL



2 RECEPTION 100 - TRANSACTION
A 641 1 1/2" = 1'-0"



3 RECEPTION 100 - WORK SURFACE
A 641 1 1/2" = 1'-0"