

**DOCUMENT 00 90 00**  
**ADDENDUM**

**ADDENDUM:** 2

**DATE:** JANUARY 8, 2026

**PROJECT:** WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION  
820 LA CROSSE STREET  
LA CROSSE, WISCONSIN 54601  
PROJECT NO. DECEMBER 2025

**FROM:** HSR Associates, Inc  
100 Milwaukee Street  
La Crosse, WI 54603  
(608) 784-1830

**TO:** Prospective Bidders

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This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated DECEMBER 2025. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of: 5 PAGES, 3 DOCUMENTS, 5 SECTIONS, and 32 DRAWINGS.

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**PRE-BID MEETING SIGN IN SHEETS:**

1. December 22, 2025.
2. January 5, 2026.

**CHANGES TO INTRODUCTORY INFORMATION AND BIDDING REQUIREMENTS:**

3. Document 00 11 15 Prequalified Contractors
  - a. See the revised document included in this addendum. Disregard the previous version.
  - b. Use the 2026 version of the Western Technical College Prequalified Contractor list.

**CHANGES TO SPECIFICATIONS:**

4. Section 06 41 00 Architectural Wood Casework
  - a. See the revised section included in this addendum. Disregard the previous version.
  - b. Revised paragraph 2.07 F. to change hinge from 5 knuckle institutional type to European concealed type.
5. Section 08 14 16 Flush Wood Doors
  - a. See the revised section included in this addendum. Disregard the previous version.
  - b. Added paragraph 1.02 D. listing 08 88 13 Fire-Rated Glazing as a related requirement.
  - c. Added paragraph 2.05 E. defining requirements for preparation for glazing.
  - d. Added paragraph 2.07 B. defining requirements for glazing.

6. Section 08 54 13 Fiberglass Windows
  - a. See the revised section included in this addendum. Disregard the previous version.
  - b. Revised paragraph 2.01 A. to add Kolbe Forgent as a listed manufacturer.
7. Section 08 71 00 Door Hardware
  - a. See the revised section included in this addendum. Disregard the previous version.
  - b. Revised hardware group 7 & 8.
8. Section 08 88 13 Fire-Rated Glazing
  - a. See the new section included in this addendum.

## **CHANGES TO DRAWINGS**

9. Sheet G000 COVERSHEET 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Revised the Index of Drawings to list sheets added in this addendum.
10. Sheet A104 4TH FLOOR PLAN 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added Key Note 6 regarding vinyl faced ceiling tile.
11. Sheet A105 5TH FLOOR PLAN 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added Key Note 6 regarding vinyl faced ceiling tile.
12. Sheet A106 6TH FLOOR PLAN 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added Key Note 6 regarding vinyl faced ceiling tile.
13. Sheet A200 BUILDING ELEVATIONS 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added detail 9 to show a stair elevation.
14. Sheet A601 DOOR SCHEDULE 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Revised Door Schedule
    - i. Revised 103A to require a new door and new frame.
    - ii. Revised remarks, see clouded changes.
    - iii. Revised door thicknesses, see clouded changes.
  - c. Revised door types to show glazing in door type B.
  - d. Revised door schedule remarks
    - i. Revised remarks 5.
    - ii. Added remarks 8 & 9.
15. Sheet ID101 4TH FLOOR FINISH PLAN 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added window shades.
  - c. Added paint to elevator frames.
  - d. Added paint to ceilings.
  - e. Revised Interior Finish Legend for carpet designations.

16. Sheet ID102 5TH FLOOR FINISH PLAN 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added window shades.
  - c. Added paint to elevator frames.
  - d. Added paint to ceilings.
  - e. Revised Interior Finish Legend for carpet designations.
17. Sheet ID103 6TH FLOOR FINISH PLAN 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added window shades.
  - c. Added paint to elevator frames.
  - d. Added paint to ceilings.
  - e. Revised Interior Finish Legend for carpet designations.
18. Sheet ID600 MASTER COLOR SCHEDULE 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Revised color of Vinyl Carpet Edge.
19. Sheet P001 PLUMBING TITLE SHEET 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Revised Plumbing Fixture Specifications to show an approved alternate product.
  - c. Added an additional corner shower caddy for each shower.
20. Sheet M096 6TH FLOOR DEMOLITION PLAN 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Unit D 601 shall have existing VTAC unit to remain in place.
21. Sheet M104 4TH FLOOR PLAN 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Unit A 404 added kitchen exhaust hood, KXH-1, and associated ADA controls to plans.
22. Sheet M105 5TH FLOOR PLAN 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Unit B 504 added kitchen exhaust hood, KXH-2, and associated ADA controls to plans.
23. Sheet M106 6TH FLOOR PLAN 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Unit D 601 shall have existing VTAC unit (E)MP-56 to remain.
24. Sheet M600 HVAC SCHEDULES 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Removed MP-56 from Vertical Terminal Air Conditioner Schedule.
  - c. Added Range Hood Schedule for KXH-1 and KXH-2.
25. Sheet E001 ELECTRICAL SYMBOLS & SHEET INDEX 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Revised the sheet index.
26. Sheet E002 ELECTRICAL NOTES AND SCHEDULES 30"x42"
  - a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Deleted General Note – Lighting #2.

- c. Deleted Keynotes – Lighting #5 & 6.
  - d. Added Keynote – Lighting #A01.
  - e. Clarified Keynotes – Low Voltage #, 8, & 9.
  - f. Crossed off 'Proposed Lighting Fixture Types' no longer being used in this project and circled fixture to be used as replacement for kitchen undercabinet light.
27. Sheet ED104 4TH FLOOR LIGHTING DEMO PLAN 30"x42"
- a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added sheets ED204, ED205, ED206 and E204, E205, E206 that did not print.
  - c. Added Keynote – Lighting #A01 stating all lighting fixtures \*EXCEPT\* kitchen sink fixture demo and sink undercabinet install are being removed from project.
28. Sheet ED105 5TH FLOOR LIGHTING DEMO PLAN 30"x42"
- a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added sheets ED204, ED205, ED206 and E204, E205, E206 that did not print.
  - c. Added Keynote – Lighting #A01 stating all lighting fixtures \*EXCEPT\* kitchen sink fixture demo and sink undercabinet install are being removed from project.
29. Sheet ED106 6TH FLOOR LIGHTING DEMO PLAN 30"x42"
- a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added sheets ED204, ED205, ED206 and E204, E205, E206 that did not print.
  - c. Added Keynote – Lighting #A01 stating all lighting fixtures \*EXCEPT\* kitchen sink fixture demo and sink undercabinet install are being removed from project.
30. Sheet ED204 4TH FLOOR POWER DEMO PLAN 30"x42"
- a. See the new sheet included in this addendum.
  - b. Added sheet that did not print.
  - c. Added notes stating that air handling/VTAC units are to be replaced. Verify quantity and ampacity of existing conductors and upgrade as necessary.
31. Sheet ED205 5TH FLOOR POWER DEMO PLAN 30"x42"
- a. See the new sheet included in this addendum.
  - b. Added sheet that did not print.
  - c. Added notes stating that air handling/VTAC units are to be replaced. Verify quantity and ampacity of existing conductors and upgrade as necessary.
32. Sheet ED206 6TH FLOOR POWER DEMO PLAN 30"x42"
- a. See the new sheet included in this addendum.
  - b. Added sheet that did not print.
  - c. Added notes stating that air handling/VTAC units are to be replaced. Verify quantity and ampacity of existing conductors and upgrade as necessary.
33. Sheet E104 4TH FLOOR LIGHTING PLAN 30"x42"
- a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added Keynote – Lighting #A01 stating all lighting fixtures \*EXCEPT\* kitchen sink fixture demo and sink undercabinet install are being removed from project.
34. Sheet E105 5TH FLOOR LIGHTING PLAN 30"x42"
- a. See the revised sheet included in this addendum. Disregard the previous version.



- b. Added Keynote – Lighting #A01 stating all lighting fixtures \*EXCEPT\* kitchen sink fixture demo and sink undercabinet install are being removed from project.
35. Sheet E106 6TH FLOOR LIGHTING PLAN 30"x42"
- a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Added Keynote – Lighting #A01 stating all lighting fixtures \*EXCEPT\* kitchen sink fixture demo and sink undercabinet install are being removed from project.
36. Sheet E204 4TH FLOOR POWER PLAN 30"x42"
- a. See the new sheet included in this addendum.
  - b. Added sheet that did not print.
  - c. Added notes stating that air handling/VTAC units are to be replaced. Verify quantity and ampacity of existing conductors and upgrade as necessary.
37. Sheet E205 5TH FLOOR POWER PLAN 30"x42"
- a. See the new sheet included in this addendum.
  - b. Added sheet that did not print.
  - c. Added notes stating that air handling/VTAC units are to be replaced. Verify quantity and ampacity of existing conductors and upgrade as necessary.
38. Sheet E206 6TH FLOOR POWER PLAN 30"x42"
- a. See the new sheet included in this addendum.
  - b. Added sheet that did not print.
  - c. Added notes stating that air handling/VTAC units are to be replaced. Verify quantity and ampacity of existing conductors and upgrade as necessary.
39. Sheet E301 ALL FLOORS DOOR ACCESS PLAN 30"x42"
- a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Clarified views showing that ADA push-button paddle switch is only to be installed on the interior of the ADA suites. Exterior card reader will be programmed to actuate door operator after card scan.
  - c. Clarified Keynote – Lighting #9 applies to all non-ADA suites on all floors 1-6.
  - d. Added View 2/E301 showing approximate location of wireless card reader gateway.
40. Sheet E500 ELECTRICAL DETAILS 30"x42"
- a. See the revised sheet included in this addendum. Disregard the previous version.
  - b. Renumbered views in order.
  - c. Clarified view 5/E500, card reader exterior only, ADA push button interior only.
  - d. Updated room number on detail 5/E401.

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## Pre-Bid Meeting Sign-In Sheet

December 22, 2025

**PROJECT: WESTERN TECHNICAL COLLEGE  
 RESIDENCE HALL PHASE 1 RENOVATION  
 820 LA CROSSE ST  
 LA CROSSE, WI 54601  
 HSR PROJECT NO. 25040**

BID OPENING: 2:00 PM, January 13, 2026

Name	Company
1. Sam Harkness	Schneider Heating
2. Chris Langen	P+T Electric
3. Steve Eisen	Paellinger Electric
4. Tim Komay	SCHNEIDER HEATING
5. KRIS RUBENZER	KNUTSON CONSTRUCTION
6. Mac Smith	B+B Electric
7. Hunter Gross	Wieser Brothers
8. MIKE ALLEN	Fowler & Hammer bids@fowlerhammer.com
9. Tyler Pichler	Bids@fowlerhammer.com
10. Glen Danielson	signarama glen@signarama-lacrosse.com
11. Gene McCurdy	WTC
12. Michelle Maland	HSR
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## Pre-Bid 2 Meeting Sign-In Sheet

January 5, 2026

**PROJECT: WESTERN TECHNICAL COLLEGE**  
**RESIDENCE HALL PHASE 1 RENOVATION**  
**820 LA CROSSE ST**  
**LA CROSSE, WI 54601**  
**HSR PROJECT NO. 25040**

BID OPENING: 2:00 PM, January 13, 2026

Name	Company
1. Michelle Maland	HSR Associates
2. Sam Furtak	Market + Johnson
3. Marcus Schindler	Market + Johnson
4. Mark Clough	E. Stanek Electric
5. Mac Smith	B+B Electric
6. Doug Rucker	Rucker Painting
7. Mike Borten	7 Rivers Mechanical
8. Gene McCurdy	WTC
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**DOCUMENT 00 11 15**  
**PREQUALIFIED CONTRACTORS**

**THE FOLLOWING LIST REPRESENTS PRE-QUALIFIED PRIME CONTRACTORS FOR  
WESTERN TECHNICAL COLLEGE 2026 PROJECTS:**

1. Altmann Construction Company, Inc.
  - a. 5921 Plover Road, Wisconsin Rapids WI 54494
  - b. Contact: Tom Altmann
  - c. Phone: 715-421-2550
  - d. Email: [altmann@altmannconstruction.com](mailto:altmann@altmannconstruction.com)
2. B & B Electric, Inc.
  - a. 1303 Western Ave, Eau Claire WI 54703
  - b. Contact: Eric Fanetti
  - c. Phone: 715-832-1676
  - d. Email : [ef@b-belectric.com](mailto:ef@b-belectric.com)
3. Bernie Buchner, Inc.
  - a. 224 Causeway Blvd, La Crosse WI 54603
  - b. Contact: Ryan Deml
  - c. Phone: 608-784-9000
  - d. Email: [ryandeml@berniebuchnerinc.com](mailto:ryandeml@berniebuchnerinc.com)
4. BMS CAT
  - a. 5515 W Florist Ave., Milwaukee WI 53218
  - b. Contact: Lila Kothari
  - c. Phone: 866-950-5317
  - d. Email: [lkothari@bmsmanagement.com](mailto:lkothari@bmsmanagement.com)
5. Borton Construction, Inc.
  - a. 2 Copeland Ave, Suite 201, La Crosse WI 54603
  - b. Contact: Caleb Carpenter
  - c. Phone: 608-779-0400
  - d. Email: [calebcarpenter@bortonconstruction.com](mailto:calebcarpenter@bortonconstruction.com)
6. Brennan Construction of MN, Inc.
  - a. 124 Walnut St. Ste 340, Mankato MN 56001
  - b. Contact: Brian Barnett
  - c. Phone: 507-625-5417
  - d. Email: [bbarnett@bcofmn.com](mailto:bbarnett@bcofmn.com)
7. C.D. Smith Construction, Inc.
  - a. 333 Front St N Ste 701, La Crosse WI 54601
  - b. Contact: Jasen Anhalt
  - c. Phone: 920-924-2900
  - d. Email: [janhalt@cdsmith.com](mailto:janhalt@cdsmith.com)

8. Fahrner Asphalt Sealers, LLC.
  - a. 2800 Mecca Dr. Plover, WI 54467
  - b. Contact: Jeff Sheehan
  - c. Phone: 800-332-3360
  - d. Email: [jeff.sheehan@fahrnerasphalt.com](mailto:jeff.sheehan@fahrnerasphalt.com)
9. Five Star Telecom, Inc.
  - a. 5136 Mormon Coulee Rd. La Crosse, WI 54601
  - b. Contact: Andy Smith
  - c. Phone: 608-796-9088
  - d. Email: [asmith@5startel.com](mailto:asmith@5startel.com)
10. Fowler & Hammer, Inc.
  - a. 313 Monitor Street La Crosse, WI 54603
  - b. Contact: Vittoria Storlie
  - c. Phone: 608-782-6849
  - d. Email: [vstorlie@fowlerhammer.com](mailto:vstorlie@fowlerhammer.com)
11. Hoeft Builders, Inc.
  - a. 5410 Stevens Prky Ste. 100 Eau Claire, WI 54701
  - b. Contact: Luke Rykal
  - c. Phone: 715-833-1761
  - d. Email: [lrykal@hoeftbuilders.com](mailto:lrykal@hoeftbuilders.com)
12. Hooper Corporation
  - a. 950 Pederson Crossing Blvd DeForest, WI 53532
  - b. Contact:
  - c. Phone: 608-249-0451
  - d. Email: [bidmechanical@hoopercorp.com](mailto:bidmechanical@hoopercorp.com)
13. Immel Construction
  - a. 2601 Development Drive Green Bay, WI 54311
  - b. Contact: Paul Martzke
  - c. Phone: 920-468-8208
  - d. Email: [paulma@immelconstruction.com](mailto:paulma@immelconstruction.com)
14. Integrity Grading and Excavating, Inc.
  - a. 605 Grossman Dr. Schofield, WI 54476
  - b. Contact: Ashley Bohman
  - c. Phone: 715-359-4042
  - d. Email: [quotes@integrityge.com](mailto:quotes@integrityge.com)
15. Interstate Roofing & WTP, Inc.
  - a. N5544 Commerce Rd. Onalaska, WI 54650
  - b. Contact: Jon Kloehn
  - c. Phone: 608-783-2106
  - d. Email: [jon@interstate-roofing.com](mailto:jon@interstate-roofing.com)

16. J.F. Ahern Co.
  - a. 5315 Freitag Drive Menomonie, WI 54751
  - b. Contact: Kaimana Rodgers
  - c. Phone: 715-233-1841
  - d. Email: [krodgers@jfhahern.com](mailto:krodgers@jfhahern.com)
17. Jackson & Associates, LLC
  - a. 1817 Buerkle Rd. White Bear Lake, MN 55110
  - b. Contact: Bo Schulz
  - c. Phone: 507-421-4277
  - d. Email: [bo@jaarroofing.com](mailto:bo@jaarroofing.com)
18. Knutson Construction Services, Inc.
  - a. 300 2nd St. N. La Crosse, WI 54601
  - b. Contact: Jordan Cepress
  - c. Phone: 507-280-9788
  - d. Email: [rochbids@knutsonconstruction.com](mailto:rochbids@knutsonconstruction.com)
19. Ledegar Roofing
  - a. 1701 Miller St. La Crosse, WI 54601
  - b. Contact: Trent Adams
  - c. Phone: 608-785-0901
  - d. Email: [tadams@ledegarroofing.com](mailto:tadams@ledegarroofing.com)
20. Long Life Roofing Co.
  - a. 808 Business Park Rd. Wisconsin Dells, WI 53965
  - b. Contact: Dick Preissel
  - c. Phone: 608-254-7948
  - d. Email: [longlife@longliferoofing.com](mailto:longlife@longliferoofing.com)
21. LVC INC
  - a. 3233 Louis Ave. Ste. E Eau Claire, WI 54703
  - b. Contact : Tom Christman
  - c. Phone : 715-688-4600
  - d. Email : [tchristman@lvcinc.com](mailto:tchristman@lvcinc.com)
22. Market & Johnson, Inc.
  - a. 2350 Galloway Street Eau Claire, WI 54703
  - b. Contact: Tyler Schulz
  - c. Phone: 715-834-1213
  - d. Email: [bidding@market-johnson.com](mailto:bidding@market-johnson.com)
23. Mathy Construction Company
  - a. 920 10th Ave North Onalaska, WI 54650
  - b. Contact: Kevin Christopherson
  - c. Phone: 608-783-6411
  - d. Email: [kevin.christopherson@mathy.com](mailto:kevin.christopherson@mathy.com)

24. McCabe Construction, Inc.
  - a. 3101 Alpine Drive Eau Claire, WI 54703
  - b. Contact: Brady Shepler, Damien Hoernke
  - c. Phone: 715-552-1346
  - d. Email: [bshepler@mccabeconstruction.net](mailto:bshepler@mccabeconstruction.net), [dhoernke@mccabeconstruction.net](mailto:dhoernke@mccabeconstruction.net)
25. Olympic Builders
  - a. 405 North Star Road Holmen, WI 54636
  - b. Contact: Julie Yahnke
  - c. Phone: 608-526-4622
  - d. Email: [office@olympicbuildersgc.com](mailto:office@olympicbuildersgc.com)
26. P & T Electric, Inc.
  - a. 1122 South Oak Street La Crescent, MN 55947
  - b. Contact: Paul Siegersma
  - c. Phone: 507-895-8585
  - d. Email: [paulptelectric@acegroup.cc](mailto:paulptelectric@acegroup.cc)
27. Pember Companies
  - a. N4449 469th St. Menomonie, WI 54751
  - b. Contact: Brent Pember
  - c. Phone: 715-235-0316
  - d. Email: [bpember@pembercompanies.com](mailto:bpember@pembercompanies.com)
28. Pioneer Roofing, LLC
  - a. 151 Maple St. Johnson Creek, WI 53038
  - b. Contact: Anthony Graziano
  - c. Phone: 920-699-2731
  - d. Email: [info@pioneerroofing.net](mailto:info@pioneerroofing.net)
29. Poellinger Electric, Inc.
  - a. 5416 33rd St South La Crosse, WI 54601
  - b. Contact: Breanne White
  - c. Phone: 608-788-6800
  - d. Email: [breanne@poellingerelectric.com](mailto:breanne@poellingerelectric.com)
30. V & S Construction Services
  - a. 2019 - 22 ½ Avenue PO Box 557 Rice Lake, WI 54868
  - b. Contact: Todd Schieffer or Kevin Klemme
  - c. Phone: 715-234-9174
  - d. Email: [todds@vscontractors.com](mailto:todds@vscontractors.com), [kevink@vscontractors.com](mailto:kevink@vscontractors.com)
31. Wieser Brothers General Contractor, Inc.
  - a. 200 Twilite Street La Crescent, MN 55947
  - b. Contact: Jeff Wieser
  - c. Phone: 507-895-8903
  - d. Email: [bids@wieserbrothers.com](mailto:bids@wieserbrothers.com)



- 32. Winona Heating & Ventilating, Inc.
  - a. 374 East Second Street Winona, MN 55987
  - b. Contact: Timothy Russell
  - c. Phone: 507-452-2064
  - d. Email: [trussell@whvr.com](mailto:trussell@whvr.com)
- 33. Winona Nursery, Inc.
  - a. 1280 Frontenac Drive Winona, MN 55987
  - b. Contact: Mclean Benson
  - c. Phone: 507-452-6237
  - d. Email: [info@winonanursery.com](mailto:info@winonanursery.com)

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**SECTION 06 41 00**  
**ARCHITECTURAL WOOD CASEWORK**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Specially fabricated cabinet units.
- B. Countertops.
- C. Hardware.
- D. Preparation for installing utilities.

**1.02 RELATED REQUIREMENTS**

- A. Applicable provisions of Division 1 govern the work of this section.
- B. Section 06 10 00 - Rough Carpentry: Support framing, grounds, and concealed blocking.
- C. Section 06 61 00 - Cast Polymer Fabrications: Solid surfaces countertops.
- D. Section 07 92 00 - Joint Sealants.
- E. Division 22 - Required plumbing fixtures and connections.
- F. Division 26 - Required electrical fixtures and connections.

**1.03 REFERENCE STANDARDS**

- A. ANSI A208.1 - American National Standard for Particleboard; 2022.
- B. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications; 2022.
- C. ANSI A208.1 - American National Standard for Particleboard; 2022.
- D. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications; 2022.
- E. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).
- F. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.
- G. BHMA A156.9 - Cabinet Hardware; 2020.
- H. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements for procedures.
- B. Review Submittals - Preparatory:
  - 1. Provide submittal packages that contain all the information identified in the submittal groups identified below. Follow any instructions regarding coordinating submittal timing between submittals of different sections.
  - 2. Shop Drawings: Indicate materials, component profiles and elevations of casework layout, assembly methods, joint details, fastening methods, accessory listings, rough-in locations, hardware location and schedule of finishes. Show details of countertop construction including backsplash, end splash and edge details, and type of substrate core material.
    - a. Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
    - b. Provide information required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
  - 3. Product Data: Provide data for hardware accessories.
- C. Review Submittals - Samples:
  - 1. Samples: Plastic laminate surfacing in manufacturer's standard colors.
  - 2. Samples: PVC edge banding representative of color/pattern, material and shape.
  - 3. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

- D. Information Submittals - Preparatory:
  - 1. Certificate: Submit labels and certificates required by quality assurance and quality control programs.
- E. Closeout Submittals:
  - 1. See Section 01 78 00 - Closeout Submittals for additional information regarding documenting warranties.
  - 2. Warranty Documentation: Submit documentation of manufacturer's warranty that acknowledges the requirements defined in this section.
    - a. Provide procurement information including date(s) of procurement, identification of suppliers and contractors involved in the procurement.
    - b. Provide manufacturer certification of the warranty that is executed in the Owner's name.

## **1.05 QUALITY ASSURANCE**

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
  - 1. Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.
  - 2. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.
- B. Quality Certification:
  - 1. Provide designated labels on shop drawings as required by certification program.
  - 2. Provide designated labels on installed products as required by certification program.
  - 3. Submit certifications upon completion of installation that verifies this work is in compliance with specified requirements.
  - 4. Replace, repair, or rework all work for which certification is refused.

## **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Protect units from moisture damage.

## **1.07 FIELD CONDITIONS**

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

## **1.08 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
- B. Section Specific Warranty: Provide manufacturer's customized warranty as described in this section. Document the warranty as defined under the Submittals heading of this section. Provide warranty in conformance with the following:
  - 1. Repair or replace components that fail in materials or workmanship. Failures include, but are not limited to, the following:
    - a. Delamination of components or other failures of glue bond.
    - b. Warping of components.
    - c. Failure of operating hardware.
    - d. Deterioration of finishes.

## **PART 2 PRODUCTS**

### **2.01 CABINETS**

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

## **2.02 PANEL CORE MATERIALS**

- A. Particleboard: Composite panel composed of cellulosic particles, additives, and bonding system; comply with ANSI A208.1.
  - 1. Use: Countertops and Backsplash.
  - 2. Classification: Medium density Industrial.
  - 3. Grade: M-2; moisture resistance: MR10.
  - 4. Panel Thickness: As Indicated.
- B. Medium Density Fiberboard (MDF): Composite panel composed of cellulosic fibers, additives, and bonding system; cured under heat and pressure; comply with ANSI A208.2.
  - 1. Use for components not indicated as another material and as backing for plastic laminate unless otherwise indicated.
  - 2. Grade: 115; moisture resistance: MR10.
  - 3. Panel Thickness: As Required.
  - 4. Surface: Sanded.

## **2.03 LUMBER MATERIALS**

- A. Cabinet Rib Materials, Base Frames and Kicks: Kiln dried hardwood or softwood with a moisture content of 5-10% or 3/4" APA B-B G-2 Exp 1 exterior plywood. Construction lumber (s-dry) not allowed.

## **2.04 LAMINATE MATERIALS**

- A. Manufacturers: Refer to Master Color Schedule on ID Drawings for basis of design.
  - 1. Formica Corporation: [www.formica.com](http://www.formica.com).
  - 2. Panolam Industries International, Inc: Including brands Panolam, Nevemar and Pionite; [www.panolam.com](http://www.panolam.com).
  - 3. Wilsonart LLC: [www.wilsonart.com](http://www.wilsonart.com).
  - 4. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.
- B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
- C. Provide specific types as indicated.
  - 1. Horizontal Surfaces: HGS, 0.048 inch nominal thickness, through color, color as selected, finish as indicated.
  - 2. Vertical Surfaces: VGS, 0.028 inch nominal thickness, through color, color as selected, finish as indicated.
  - 3. Post-Formed Horizontal Surfaces: HGP, 0.039 inch nominal thickness, through color, color as selected, finish as indicated.
  - 4. Post-Formed Vertical Surfaces: VGP, 0.028 inch nominal thickness, through color, color as selected, finish as indicated.
  - 5. Cabinet Liner: CLS, 0.020 inch nominal thickness (melamine), color as selected, finish as selected.
  - 6. Laminate Backer: BKL, 0.020 inch nominal thickness (melamine), undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.

## **2.05 COUNTERTOPS**

- A. Solid Surface Countertops: See Section 06 61 00 - Cast Polymer Fabrications.
- B. Plastic Laminate Countertops: Medium density industrial particle board substrate covered with HPDL. Back/end splash shall be coved joint. Countertop edge shall be post formed with self edge economy.

## 2.06 ACCESSORIES

- A. Plastic edge banding:
  - 1. Plastic edge banding at exposed edges of shelves and islands:
    - a. Extruded 2mm PVC, flat shaped, smooth finish width to match component thickness.
    - b. Pattern/Color: As selected by Architect from manufacturer's full range.
  - 2. Plastic edge banding at door, drawer, all face frames and other locations not otherwise indicated:
    - a. Extruded 0.018 inch PVC, flat shaped; smooth finish; of width to match component thickness.
    - b. Pattern/Color: As selected by Architect from manufacturer's full range.
- B. Fasteners: Size and type to suit application.
- C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
- D. Concealed Joint Fasteners: Threaded steel.

## 2.07 HARDWARE

- A. Cabinet Hardware: Comply with BHMA A156.9 for hardware types and grades indicated below:
  - 1. Hardware Types: As indicated on drawings.
  - 2. Product Grade: Grade 2.
- B. Configuration: Pedestal supported with wood bench top and backrest.
- C. Drawer and Door Pulls:
  - 1. Material: Stainless Steel.
  - 2. Finish: Brushed Chrome Finish.
  - 3. Products:
    - a. Hafele: Handle, Stainless Steel 304; [www.hafele.com](http://www.hafele.com).
    - b. Rockwood: 853; [www.assaabloydooraccessories.us](http://www.assaabloydooraccessories.us).
    - c. Sugatsune: SWP-696/S Stainless Steel Wire Pull; [www.sugatsune.com](http://www.sugatsune.com).
    - d. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.
- D. Latches and Catches:
  - 1. Type: Magnetic Catch:
    - a. Non-Tabbed Magnetic Catch:
      - 1) Install one at base and wall cabinets, two (top and bottom) at each door of tall storage units.
      - 2) Products:
        - (a) Ives; 326 Magnetic Catch, dual double pole; [us.allegion.com](http://us.allegion.com).
        - (b) Rockwood Pull; Rockwood 900 Heavy Duty Magnetic Catch: [www.rockwoodpull.com](http://www.rockwoodpull.com).
        - (c) Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.
  - 2. Elbow Latches:
    - a. Install at double doors with locks.
    - b. Products:
      - 1) Ives; Ives #2 Elbow Latch; [www.iveshinges.com](http://www.iveshinges.com).
      - 2) EPCO: Heavy Duty Elbow Latch; [www.epcohardware.com](http://www.epcohardware.com).
      - 3) Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.
- E. Drawer Slides:
  - 1. Type: Combination metal and roller bearing, three-quarter extension.
  - 2. Standard Drawers: 100 lb. Accuride 3832 soft close or comparable.
  - 3. File Drawers: Combination metal and roller bearing, full extension with over travel, 150 lb. Accuride 4034 Series or comparable.

4. Mounting: Side mounted.
5. Stops: Integral type.
6. Features: Provide stay close type.
  - a. Manufacturers:
    - 1) Accuride International, Inc: [www.accuride.com](http://www.accuride.com).
    - 2) Blum; [www.blum.com](http://www.blum.com).
    - 3) Knappe & Vogt Manufacturing Company: [www.knappeandvogt.com](http://www.knappeandvogt.com).
  - b. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.
- F. Hinges: European style concealed type, stainless steel with satin finish.
  1. Opening: 120 degree opening.
  2. Manufacturers:
    - a. Grass America, Inc.; Tiomos: [www.grassusa.com](http://www.grassusa.com).
    - b. Blum, Inc; Clip Top Blumotion Hinge Systems: [www.blum.com](http://www.blum.com).
    - c. Titus Cabinet Hardware; Soft-Line: [www.titusplus.com/us/en](http://www.titusplus.com/us/en).
    - d. Substitutions: See contract Conditions and General Requirements for requirements.

## **2.08 SUPPORTS AND BRACKETS**

- A. In-Cabinet Adjustable Shelf Supports: Standard side-mounted system using multiple holes for pin supports and coordinated self rests, satin chrome finish, for nominal 1 inch spacing adjustments.
  1. Products: #55 Double Pin manufactured by Allenfield Manufacturing and Development.
    - a. #55 Double Pin manufactured by Allenfield Manufacturing and Development.
    - b. Shelf Support Clip #3220CL from Bainbridge Manufacturing Inc.
    - c. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.
- B. Formed/Bent Plate Shelf Brackets: Fixed, formed plate, face-of-wall mounting.
  1. Materials: Formed steel shapes.
    - a. Finish: Manufacturer's standard, factory-applied, powder coat.
    - b. Color: Brown.
  2. Support Length: Match the width of the supported surface without exceeding the width of the supported surface or interfering with edge detailing.
  3. Products:
    - a. A&M Hardware, Inc; Standard Brackets: [www.aandmhardware.com](http://www.aandmhardware.com).
    - b. Gambas Workstation Brackets: Standard Brackets: [www.gambasbrackets.com](http://www.gambasbrackets.com).
    - c. Rockler: Heavy-Duty Steel Shelf Brackets: [www.rockler.com](http://www.rockler.com).
    - d. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

## **2.09 SINKS, DRAINS, TRAPS AND LABORATORY FITTINGS**

- A. See plumbing sheets for products and installation.

## **2.10 FABRICATION**

- A. Cabinet Style: Flush overlay.
- B. Base Cabinets:
  1. Construct in accordance with AWI/AWMAC Architectural Woodwork Quality Standards Illustrated, Custom quality.
- C. Wall Cabinets:
  1. Underside of wall cabinets shall be Type "C" flush with finish applied after assembly.
  2. Provide manufacturer's standard construction to reinforce cabinets for wall attachment, minimum two, full width 3/4 inch thick x 3 inch, glued and mechanically fastened at cabinet back.
- D. Drawers:
  1. Bottoms and Sides: 1/2 inch Veneer core panel product, "B" face hardwood veneer or 1/2 inch medium density fiberboard with thermoset decorative overlay. PVC edge banding at exposed edges.

2. Bottoms shall be dadoed into sides, front and back. Staple and glue.
  3. Reinforcement; 1/2 inch thick under-bottom stiffeners, one at 24 inch drawers, two at 36 inch drawers and four at 48 inch drawers.
  4. File drawers shall be sized to accommodate a follower mechanism or use of hanging folders. Selection to be confirmed by A/E.
- E. Tall Storage Units:
1. Center shelf shall be fixed to allow for installation of lock where applicable.
- F. HDPL Veneer Shelves:
1. Provide 3/4 inch thick shelves unless noted otherwise on drawings or to satisfy span limits described below.
  2. Provide 1 inch thick shelves to support microwaves.
  3. Shelf Veneer Material: HDPL at top and bottom of panels unless noted otherwise.
  4. Shelf Edge Material: PVC banding that is pattern/color matched to the veneer unless noted otherwise.
  5. Enclosed Shelves: Finish to match inside faces of cabinet. Fabricate all shelves to the full depth of the cabinet. Finish edges with banding at surfaces exposed when the doors are open.
  6. Non-enclosed Shelves - Finish all edges with banding if not otherwise indicated.
- G. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- H. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- I. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- J. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Where countertop length exceeds manufacturer's maximum sheet length. Locate counter butt joints minimum 2 feet from sink cut-outs.
1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
  2. Cap exposed plastic laminate finish edges with material of same finish and pattern.
- K. Mechanically fasten back splash to countertops with steel brackets at 16 inches on center.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

#### **3.02 INSTALLATION**

- A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- B. Use fixture attachments in concealed locations for wall mounted components.
- C. Use concealed joint fasteners to align and secure adjoining cabinet units.
- D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
- E. Secure cabinets to floor using appropriate angles and anchorages.
- F. Coordinate placement of fixtures and items required in other divisions.
- G. Where casework meets wall surfaces, set with uniform space not to exceed 1/8 inch. Seal all joints to a slightly concave joint. Use backer rod where required. Refer to Section 07 92 00 for sealant type.



### **3.03 ADJUSTING**

- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.

### **3.04 CLEANING**

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

**END OF SECTION**

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**SECTION 08 14 16**  
**FLUSH WOOD DOORS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Flush wood doors; flush configuration; fire-rated and non-rated.

**1.02 RELATED REQUIREMENTS**

- A. Applicable provisions of Division 1 govern the work of this section.
- B. Section 08 12 13 - Hollow Metal Frames.
- C. Section 08 71 00 - Door Hardware.
- D. Section 08 88 13 – Fire Rated Glazing.

**1.03 REFERENCE STANDARDS**

- A. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- B. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2025.
- C. WDMA I.S. 1A - Interior Architectural Wood Flush Doors; 2021, with Errata (2022).

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements for procedures.
- B. Provide submittal transmittals that include all submittal items identified in each submittal group below.
- C. It is permissible for a single supplier to combine submittal items for multiple sections within Division 8 Openings. This permission applies to sections that describe requirements for glazing, hardware, any passage door and windows that are framed using the same systems as the passage doors. Identify all sections that are included in the transmittal on the coversheet.
- D. Review Submittals - Preparatory:
  - 1. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.
  - 2. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.
- E. Review Submittals - Samples:
  - 1. Samples: Submit two samples of door construction, 12 by 12 inch in size cut from top corner of door.
  - 2. Samples: Submit two samples of door veneer, 12 by 12 inch in size illustrating wood grain, stain color, and sheen.
- F. Information Submittals - Preparatory:
  - 1. Certificate: Submit labels and certificates required by quality assurance and quality control programs.
- G. Closeout Submittals:
  - 1. See Section 01 78 00 - Closeout Submittals for additional information regarding documenting warranties.
  - 2. Warranty Documentation: Submit documentation of manufacturer's warranty that acknowledges the requirements defined in this section.

**1.05 QUALITY ASSURANCE**

- A. Maintain one copy of the specified door quality standard on site for review during installation and finishing.

- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section, with not less than three years of documented experience.
- C. Supplier: A company experienced in the builders' hardware industry representing wood door products for a minimum of two (2) years, and can call upon an AHC, registered Architectural Hardware Consultant, for consultation during the full extent of the project.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Package, deliver and store doors in accordance with specified quality standard.
- B. Accept doors on site in manufacturer's packaging, and inspect for damage.
- C. Protect doors with resilient packaging sealed with heat shrunk plastic; do not store in damp or wet areas or areas where sunlight might bleach veneer; seal top and bottom edges with tinted sealer if stored more than one week, and break seal on site to permit ventilation.

#### **1.07 PROJECT CONDITIONS**

- A. Coordinate the work with door opening construction, door frame and door hardware installation.

#### **1.08 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
- B. Section Specific Warranty: Provide manufacturer's customized warranty as described in this section. Document the warranty as defined under the Submittals heading of this section. Provide warranty in conformance with the following:
  - 1. Provide manufacturer's warranty on interior doors for the life of the installation. Complete forms in Owner's name and register with manufacturer.
  - 2. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

### **PART 2 PRODUCTS**

#### **2.01 MANUFACTURERS**

- A. Wood Veneer Faced Doors:
  - 1. Forte Opening Solutions: [www.forteopenings.com](http://www.forteopenings.com).
  - 2. Oshkosh Architectural Door Company; [www.oshkoshdoor.com](http://www.oshkoshdoor.com).
  - 3. VT Industries; [www.vtindustries.com](http://www.vtindustries.com).
  - 4. Streko; [www.strekodoors.com](http://www.strekodoors.com).
  - 5. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

#### **2.02 DOORS**

- A. Doors: See drawings for locations and additional requirements.
  - 1. Quality Standard: Custom Grade, Heavy Duty performance, in accordance with WDMA I.S. 1A.
  - 2. Wood Veneer Faced Doors: 5-ply unless otherwise indicated.
- B. Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction.
  - 1. Provide interior doors compatible with existing frames to be reinstalled and to remain in place while maintaining fire rating.
  - 2. Provide solid core doors at each location.
  - 3. Fire Rated Doors: Tested to ratings as indicated on drawings in accordance with ICC (IBC) - Positive Pressure; Underwriters Laboratories Inc. (UL) or Intertek/Warnock Hersey (WHI) labeled without any visible seals when door is open.

#### **2.03 DOOR AND PANEL CORES**

- A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as indicated.
- B. Fire-Rated Doors: Mineral core type, with fire resistant composite core (FD), plies and faces as indicated above; with core blocking as required to provide adequate anchorage of hardware without through-bolting.

## **2.04 DOOR FACINGS**

- A. Veneer Facing for Transparent Finish: Maple, veneer grade in accordance with quality standard indicated, plain sliced (flat cut), with book match between leaves of veneer, running match of spliced veneer leaves assembled on door or panel face.
  - 1. Vertical Edges: laminated.
- B. Facing Adhesive: Type I - waterproof.

## **2.05 DOOR CONSTRUCTION**

- A. Fabricate doors in accordance with door quality standard specified.
- B. Cores Constructed with stiles and rails.
- C. Provide solid blocks at lock edge for hardware reinforcement.
- D. Where supplementary protective edge trim is required, install trim after veneer facing has been applied full-width.
- E. Glazing Openings: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings.
- F. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.
- G. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.
- H. Provide edge clearances in accordance with the quality standard specified.

## **2.06 FINISHES - WOOD VENEER DOORS**

- A. Finish work in accordance with WDMA I.S. 1A for grade specified and as follows:
  - 1. Transparent:
    - a. System - TR-6, Catalyzed Polyurethane.
    - b. Stain: As selected by Architect.
    - c. Sheen: Satin.
- B. Factory finish doors in accordance with approved sample. Stain colors shall be selected from manufacturer's full line.
- C. Seal edges as required by manufacturer's standards to meet lifetime warranty.

## **2.07 ACCESSORIES**

- A. Hollow Metal Door Frames: See Section 08 12 13.
- B. Glazed Openings:
  - 1. See requirements in Section 08 88 13.
- C. Glazing Stops: Wood, of same species as door facing, butted corners; prepared for countersink style tamper proof screws.
- D. Door Hardware: See Section 08 71 00.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify existing conditions before starting work.
- B. Verify that opening sizes and tolerances are acceptable.
- C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

### **3.02 INSTALLATION**

- A. Install doors in accordance with manufacturer's instructions and specified quality standard.
  - 1. Install fire-rated doors in accordance with NFPA 80 requirements.
- B. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.

- C. Use machine tools to cut or drill for hardware.
- D. Coordinate installation of new doors with installation of frames and hardware.
- E. Coordinate installation of glazing.
- F. Seal all job site sawn surfaces with two coats of polyurethane.

### **3.03 TOLERANCES**

- A. Comply with specified quality standard for fit and clearance tolerances.
- B. Comply with specified quality standard for telegraphing, warp, and squareness.

### **3.04 ADJUSTING**

- A. Adjust doors for smooth and balanced door movement.
- B. Adjust closers for full closure.

### **3.05 SCHEDULE - SEE DRAWINGS**

**END OF SECTION**

**SECTION 08 54 13**  
**FIBERGLASS WINDOWS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Factory fabricated fiberglass windows with operating sash.
- B. Factory glazed including infill panels.
- C. Operating hardware.
- D. Insect screens.

**1.02 RELATED REQUIREMENTS**

- A. Applicable provisions of Division 1 govern work under this Section.
- B. Section 07 92 00 - Joint Sealants: Sealing joints between frames and adjacent construction.

**1.03 REFERENCE STANDARDS**

- A. AAMA/WDMA/CSA 101/I.S.2/A440 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights; 2022, with Errata (2023).
- B. AAMA 502 - Voluntary Specification for Field Testing of Newly Installed Fenestration Products; 2021.
- C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- D. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2019.
- E. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2023).
- F. ASTM E783 - Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors; 2002 (Reapproved 2018).
- G. ASTM E1105 - Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference; 2015 (Reapproved 2023).

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements for procedures.
- B. Provide submittal transmittals that include all submittal items identified in each submittal group below.
- C. Review Submittals - Preparatory:
  - 1. Product Data: Provide component dimensions, anchors, fasteners, glass, and internal drainage details.
  - 2. Shop Drawings: Indicate opening dimensions, framed opening tolerances, affected related work, installation requirements.
- D. Review Submittals - Samples:
  - 1. Submit 1 sample of window corner/frame section.
  - 2. Submit sample set of sill color options.
- E. Information Submittals - Preparatory:
  - 1. Manufacturer's Certificate: Certify that products of this section meet or exceed specified requirements.
  - 2. Grade Substantiation: Prior to submitting shop drawings or starting fabrication, submit one of the following showing compliance with specified grade:
    - a. Evidence of AAMA Certification.

- b. Evidence of WDMA Certification.
  - c. Evidence of CSA Certification.
  - d. Test report(s) by independent testing agency itemizing compliance and acceptable to authorities having jurisdiction.
- 3. Manufacturer's qualification statement.
- 4. Installer's qualification statement.
- F. Closeout Submittals:
  - 1. Extended Period: Submit certificate by Contractor acknowledging the section specific period to correct work described in this Section.
  - 2. Warranty Documentation: Submit documentation of manufacturer's warranty that acknowledges the requirements defined in this section.
    - a. Provide procurement information including date(s) of procurement, identification of suppliers and contractors involved in the procurement.
    - b. Provide manufacturer certification of the warranty that is executed in the Owner's name.

### **1.05 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- B. Meet code requirements for basement egress window and other required egress locations.

### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Protect finished surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond when exposed to sunlight or weather.
- B. Jig, brace, and box the window frame assemblies for transport to minimize flexing of members or joints.

### **1.07 FIELD CONDITIONS**

- A. Do not install sealants when ambient temperature is less than 40 degrees F.
- B. Maintain this minimum temperature during and after installation of sealants.

### **1.08 WARRANTY**

- A. Section Specific Warranty: Provide manufacturer's customized warranty as described in this section. Document the warranty as defined under the Submittals heading of this section. Provide warranty in conformance with the following:
  - 1. Provide twenty year manufacturer warranty for insulated glass units from seal failure, interpane dusting or misting, and replacement of same. Include coverage for degradation of color finish.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Fiberglass Windows:
  - 1. Basis of Design: Marvin: Essential Collection.
  - 2. Pella Impervia.
  - 3. Kolbe Forgent.
  - 4. Substitutions: See contract Conditions and General Requirements for requirements.

### **2.02 WINDOW UNITS**

- A. Fiberglass Windows: Hollow, tubular, multi-layer fiber reinforced material; factory fabricated; with vision glass, related flashings, anchorage and attachment devices.
  - 1. Configuration: As indicated on drawings.
  - 2. Product Type: H - Hung window, vertically sliding in accordance with AAMA/WDMA/CSA 101/I.S.2/A440.
  - 3. Color: Bronze, inside and outside.



4. Movement: Accommodate movement between window and perimeter framing and deflection of lintel, without damage to components or deterioration of seals.
5. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.

### **2.03 PERFORMANCE REQUIREMENTS**

- A. Grade: AAMA/WDMA/CSA 101/I.S.2/A440 requirements for specific window type:
  1. Performance Class (PC): LC.
- B. Design Pressure (DP): In accordance with ASCE 7.
- C. Overall Thermal Transmittance (U-value): See requirements on sheet A200.
- D. Water Leakage: No uncontrolled leakage on interior face when tested in accordance with ASTM E331 at differential pressure of 12.11 pounds per square foot.
- E. Air Leakage: 0.3 cfm/sq ft maximum leakage when tested at 1.57 psf pressure difference in accordance with ASTM E283/E283M.

### **2.04 COMPONENTS**

- A. Sills: Provide brake formed aluminum; sloped for positive wash; fit under sash to 1/2 inch beyond upper angle of masonry sill unit; one piece full width of opening. See detail 8 on A200. Color match aluminum sill to masonry sill unit.
- B. Insect Screen Frame: Rolled aluminum frame of rectangular sections; fit with adjustable hardware; nominal size similar to operable glazed unit. Match screen frame color to mullion color.
- C. Factory-installed screen: Screen mesh 18 x 16, charcoal fiberglass.
- D. Fasteners: Stainless steel.
- E. Sealant for Setting Sills and Sill Flashing: Non-curing butyl type.

### **2.05 GLASS AND GLAZING MATERIALS**

- A. Insulating glass, high performance low-e with argon gas.
- B. Factory glazed, manufacturer's standard installation.

### **2.06 HARDWARE**

- A. Manufacturer's standard for type of window.
- B. Window Opening Control Devices (WOCD): Provide operable window sash hardware that limits openings to only allow passage of 4 inch diameter rigid sphere or less, and are easily releasable to fully open without use of keys, tools, or special knowledge.

### **2.07 FABRICATION**

- A. Fabricate framing, mullions and sash members with fusion welded corners and joints, in a rigid jig. Supplement frame sections with internal reinforcement where required for structural rigidity.
- B. Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
- C. Arrange fasteners to be concealed from view.
- D. Permit internal drainage weep holes and channels to migrate moisture to exterior. Provide internal drainage of glazing spaces to exterior through weep holes.
- E. Double weatherstrip operable units.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify wall openings and adjoining water-resistive barrier seal materials are ready to receive work of this section.

### **3.02 INSTALLATION**

- A. Install windows in accordance with manufacturer's instructions.
- B. Attach window frame and shims to perimeter opening to accommodate construction tolerances and other irregularities.
- C. Align window plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work.
- D. Install sill.
- E. Provide thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.

### **3.03 TOLERANCES**

- A. Maximum Variation from Level or Plumb: 0.06 inches every 3 ft non-cumulative or 0.5 inches per 100 ft, whichever is less.

### **3.04 FIELD QUALITY CONTROL**

- A. Provide services of fiberglass window manufacturer's field representative to observe for proper installation of system and submit report.
- B. A Contractor hired testing agency will perform field quality control tests, as specified in Section 01 40 00 - Quality Requirements.
- C. Provide field testing of installed fiberglass windows by independent laboratory in accordance with AAMA 502 and AAMA/WDMA/CSA 101/I.S.2/A440 during construction process and before installation of interior finishes.
  - 1. Perform tests on three individual windows in designated locations as indicated on drawings.
  - 2. Conduct tests on individual windows prior to 5 percent and 50 percent completion of this work.
  - 3. Field test for water penetration in accordance with ASTM E1105 using Procedure B - cyclic static air pressure difference; test pressure shall not be less than 1.9 psf.
  - 4. Field test for air leakage in accordance with ASTM E783 with uniform static air pressure difference of 6.27 psf.
    - a. Maximum allowable rate of air leakage is 0.10 cfm/sq ft.
- D. Repair or replace fenestration components that have failed designated field testing, and retest to verify performance complies with specified requirements.

### **3.05 ADJUSTING**

- A. Adjust hardware for smooth operation and secure weathertight closure.

### **3.06 CLEANING**

- A. Remove protective material from pre-finished surfaces.
- B. Wash surfaces by method recommended and acceptable to window manufacturer; rinse and wipe surfaces clean.
- C. Remove excess glazing sealant by moderate use of mineral spirits or other solvent acceptable to sealant manufacturer.

**END OF SECTION**

## **SECTION 08 71 00 DOOR HARDWARE**

### **PART 1: GENERAL**

#### **1.01 RELATED DOCUMENTS**

- A.** Conditions of the Contract and portions of Division One of this Project Manual apply to this Section as though repeated herein.

#### **1.02 WORK INCLUDED**

- A.** Furnish all finish hardware specified herein, listed in the hardware schedule, or required by the drawings.
- B.** Where items of hardware are not definitely or correctly specified and are required for the intended service, such omission, error, or other discrepancy should be directed to the Architect prior to the bid date for clarification by addendum. Otherwise, furnish such items in the type and quantity established by this specification for the appropriate service intended.

#### **1.03 RELATED WORK**

- A.** Section 08 12 13 – Hollow Metal Frames
- C.** Section 08 14 16 – Flush Wood Doors.
- D.** Division 26 - Electrical.
- E.** Division 28 – Access Control

#### **1.04 REFERENCES**

- A.** A.D.A. - Americans with Disabilities Act.
- B.** ANSI ICC A117.1-2009: Specifications for making facilities accessible.
- C.** NFPA 80 - Standards For Fire Doors and Windows.
- D.** NFPA 101 - Life Safety Code.
- E.** U.L. - Building Material Directory.
- F.** D.H.I. - Recommended Locations for Architectural Hardware.
- G.** Applicable State and Local Building Codes, including IBC 2009.

#### **1.05 SUBMITTALS**

- A.** Submit five (5) copies of a detailed hardware schedule, vertical format. Prepare under the supervision of an AHC, registered Architectural Hardware Consultant, and under provisions of Division One.
  - 1. Itemize hardware in the sequence and format established by this specification.
  - 2. List and describe each opening separately. Include all doors with identical hardware, except hand, in a single heading. Include door number, room designations, degree of swing, and hand.

3. List related details. Include dimensions, door and frame material, and other considerations affecting hardware.
  4. List all hardware items to be supplied. Include manufacturer's name, quantity, product name, catalog number, size, finish, attachments, and related details where applicable.
  5. Resubmit five (5) copies of the corrected schedule when required.
- B. Keying Schedule:** After receipt of approved hardware schedule submit a copy of keying schedule as a result of a keying meeting between the Owner and the hardware supplier.
- C. Samples:** If so directed by the Architect, submit samples of finish hardware items for approval. Properly identify each sample as to make and number, and furnish in the specified finish.
- D. Templates:** Furnish a copy of approved hardware schedule, along with applicable templates for factory-prepared hardware to each door and frame fabricator.
- E. Electrical Hardware:** Submit electrical specifications and applicable information to the electrical contractor after receipt of the approved hardware schedule.
- F. Substitutions:** Submit under provisions of Division One. Provide detailed information and catalog cuts indicating the comparison to the specified hardware. If requested by the Architect, provide a sample accompanied by a sample of the specified item for comparison.

## **1.06 QUALITY ASSURANCE**

- A. Qualifications:**
1. Manufacturer: Except where specified in the hardware schedule, furnish products of only one manufacturer for each type of hardware.
  2. Supplier: A company experienced in the builders' hardware industry for a minimum of two (2) years, and can call upon an AHC, registered Architectural Hardware Consultant, for consultation during the full extent of the project
- B. Regulatory Requirements:**
1. Furnish UL or Warnock Hersey listed hardware for all fire labeled and 20 minute openings in conformance with requirements for class of opening scheduled, whether specifically called for in this specification or not.
  2. Furnish hardware that conforms to all applicable state and local building codes, including IBC 2009 positive pressure testing requirements. Where specified hardware is not in conformance with applicable codes, such omission or error should be directed to the Architect prior to the bid date for clarification by addendum; otherwise furnish hardware as required by code.
- C. Training and Inspection:**
1. Hold pre-installation meeting to coordinate training of installation personnel. Installers shall be trained by manufacturer's representative.
  2. Manufacturer's representative shall inspect installation of hardware as part of substantial completion requirements.

## 1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle in accordance with Division One. Mark each original container with a door number that corresponds to the approved hardware schedule for the installation location.
- B. Receive, inventory and store hardware in a secure and dry environment; protect against loss and damage.
- C. Report any shortages to the hardware supplier no later than 48 hours after receipt of delivery to the job site.
- D. Stockpile items sufficiently in advance to ensure their availability. Coordinate delivery, handling, and installation of hardware items to ensure orderly progress of total work, and minimize or eliminate losses and damage.

## PART 2: PRODUCTS

### 2.01 ACCEPTABLE MANUFACTURERS

<u>Products</u>	<u>Specified</u>	<u>Acceptable</u>
Hinges	PBB	Stanley, McKinney, Hager, IVES
Flush Bolts	Rockwood	DCI, Trimco, Ives
Locks and Latches	MBS	NO SUB
Wireless Locks	Schlage	
Push/Pull Latches	Rockwood	Trimco, Burns, Hager
Exit Devices	VONDUPRIN	NO SUB
Door Closers	LCN	NO SUB
Low Energy Automatic Operators	LCN	
Protective Plates	Rockwood	Burns, Hager
Overhead Stops/Holders	ABH	Dorma, Glynn Johnson
Wall Stops/Floor Stops	Rockwood	Trimco, Hager, DCI
Electromagnetic Door Holders	Dorma	LCN, Rixson
Thresholds, Sweeps, Weatherstrip	Reese	National Guard Products, Pemko

### 2.02 HINGES

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>Ives</u>	<u>Stanley</u>	<u>McKinney</u>	<u>Hager</u>
Std. Wt. Plain Bearing - Steel	5PB1	F179	T2714	1279
Std. Wt. Ball Bearing - Steel	5BB1	FBB179	TA2714	BB1279
Std. Wt. Ball Bearing -non ferrous	5BB1	FBB191	TB2314	BB1191
Hvy. Wt. Ball Bearing Steel	5BB1HW	FBB168	T4B3786	BB1168
Hvy. Wt. Ball Bearing – non ferrous	5BB1HW	FBB179	T4B3386	BB1199

- B. Hinges supplied must be tested and comply with ANSI/BHMA standards for consistency, wear and corrosion resistance.
- C. Quantity: Furnish hinges for each door leaf as follows, unless otherwise noted in groups:
  - 1. Doors up to and including 90" high - 3 hinges.
  - 2. Doors over 90" high through 120" high - 4 hinges.

- D. Type:** Furnish as follows, unless otherwise noted in groups:
1. Standard weight, plain bearing hinge for interior openings through 36" wide without a door closer.
  2. Standard weight, ball bearing hinge for interior openings over 36" through 40" wide with a door closer, and for interior openings through 40" wide with a door closer.
  3. Heavy weight, four ball bearing hinge for all exterior openings unless noted in groups.
- E. Size:** Furnish as follows, unless otherwise noted in groups:
1. 1 3/4" doors: 4-1/2" x 4-1/2"
  2. Provide proper hinge width to clear trim and allow full 180° swing.
- F. Hinges for all lockable doors opening outward shall have non-removable pin (NRP). All other hinges shall have non-rising pins.**

### 2.03 FLUSH BOLTS

- A. Acceptable manufacturers and respective catalog numbers:**

<u>Description</u>	<u>Rockwood</u>	<u>Ives</u>	<u>Trimco</u>	<u>DCI</u>
Manual - Metal Door	555	FB458	3917	780F
Manual - Wood Door	557	FB358	3913	790F
Automatic - Metal Door	1842	FB31P	3810	842
Automatic - Wood Door	1962	----	----	962
Self Latching - Metal Door	1845	FB51P	3820	845
Self Latching - Wood Door	1945	FB61P	3825	945
Dust Proof Strike	570	DP2	3911	82

- B. Furnish a dustproof strike for all bottom bolts.**

### 2.04 LOCKS AND LATCHES-SEE HARDW GROUPS

- A. Acceptable manufacturers and respective catalog numbers:**

Description  
 Heavy Duty Mortise  
 Hvy. Duty Grade 1 Cylindrical

- B. Furnish lock types and functions as specified in the hardware schedule, and as follows:**
1. Provide 2-3/4" backset.
  2. Provide 2-3/4" x 1-1/8" "T" strike with a dust box for use in wood doors or frames.
  3. Provide 4-7/8" x 1-1/4" ANSI strike for installation in a hollow metal door or frame.
  4. Locksets to conform to ANSI A156.2, Series 4000, Grade 1 and be UL listed.

### 2.05 EXIT DEVICES-SEE HRDW GROUPS

- A. Acceptable manufacturers and respective catalog numbers:**
- B. Furnish exit device types and functions as specified in the hardware schedule.**
- C. Lever handles supplied with exit devices shall match the design specified for locks and**

latches.

## **2.06 PULLS, PUSHBARS, PUSH/PULL PLATES-SEE HARDW GROUPS**

- A.** Acceptable manufacturers and respective catalog numbers:

Description

- B.** Supply product as listed in groups or equal to acceptable manufacturers..

## **2.07 DOOR CLOSERS**

- A.** Acceptable manufacturers and respective catalog numbers:

Description

- B.** Furnish complete with mounting brackets, drop plates, spacers, special shoes, and thru bolts as may be required by the door and frame conditions.

## **2.08 LOW ENERGY AUTOMATIC OPERATORS**

- A.** Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	LCN
Operator - Push Side	9542
Operator - Pull Side	9531
Hard Wired Wall Switch	SEE GROUPS
Wireless Wall Switch	
Wireless Receiver	

Other approved operator manufacturer's: Tormax, Record 8100 Series.

- B.** Provide arms, mounting plates, sizes, stops, and any component that may be necessary to interface with electrified hardware that are required for complete and proper operation of the openings affected. Completed installation must meet or exceed requirements of ANSI A159.19.
- C.** Provide actuators as detailed in groups.
- D.** Conduit, electrical back boxes, wiring, and 120 VAC input power by Division 16 - Electrical.

## **2.09 PROTECTIVE PLATES**

- A.** Acceptable manufacturers: Rockwood, Trimco, Burns, Hager.
- B.** All kickplate heights shall be as listed in groups and 2" less door width single doors and 1" less for pairs.
- C.** Thickness shall be .050" (16 gauge).

## 2.10 OVERHEAD STOPS/HOLDERS

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>A.B.H.</u>	<u>Dorma</u>	<u>Glynn Johnson</u>
Heavy Duty Surface	9000	900	90
Heavy Duty Concealed	1000	910	100
Standard Duty Surface	4400	700	450
Standard Duty Concealed	4000	710	410

- B. Furnish an overhead stop if a door opens against equipment, casework, sidelights, or other objects that would make wall bumpers inappropriate, and as specified in the hardware groups.

## 2.11 WALL STOPS-SEE GROUPS

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>
Wrought Convex Wall
Wrought Concave w/Toggle

- B. When "wall stop" is called for in hardware group, provide 407 or 409. When overhead stops are required, they will be specified by product number in the group.
- C. Wall stops shall not be mounted to casework, cabinet work, sidelights, or equipment.

## 2.12 ELECTROMAGNETIC DOOR HOLDERS

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>LCN</u>	<u>Rixson</u>
Floor Mounted - Single	SEM7820	FM980
Floor Mounted - Double	----	FM981
Flush Wall Mount - Std. Catch Plate	SEM7850	FM998
Surface Wall Mount	SEM7830	FM996

- B. Provide the voltage as required by electrical.

## 2.13 THRESHOLDS, SWEEPS, WEATHERSTRIP, DRIP CAPS, GASKET, ASTRAGALS

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>Reese</u>	<u>Pemko</u>	<u>National Guard</u>
Threshold	S205	171A	425A
Sweep	323	315N	200N
Sweep	967	18133CP	OV633
Weatherstrip	970	45100CP	603
Weatherstrip	DS78	315CR	130N
Gasket	797B	S88	1010

- B. Where specified in groups, furnish the above products unless otherwise detailed.



## **2.14 DOOR HARDWARE FINISHES**

**A.** Unless indicated otherwise in the groups provide finishes as follows:

- |                                    |                         |
|------------------------------------|-------------------------|
| 1. Hinges, exterior:               | US32D                   |
| 2. Hinges, interior:               | US26D                   |
| 3. Flush Bolts:                    | US26D                   |
| 4. Exit Devices:                   | US32D                   |
| 5. Locks and Latches:              | US26D                   |
| 6. Pulls, Pushbars, Push/Pull:     | US32D                   |
| 7. Door Closers:                   | Painted Aluminum        |
| 8. Low Energy Automatic Operators: | Painted Aluminum        |
| 9. Protective Plates:              | US32D                   |
| 10. Overhead Stops:                | Painted Aluminum        |
| 11. Wall Stops:                    | US32D                   |
| 12. Gasket:                        | Black                   |
| 13. Thresholds:                    | Mill Aluminum           |
| 14. Weatherstrip, Sweeps:          | Clear Anodized Aluminum |

## **2.15 KEYING**

- A.** The Hardware Supplier, in consultation with the Owner's authorized representative, shall prepare a detailed keying schedule. A copy of the final approved keying schedule bearing the signature of approval of the Owner's Representative shall be filed with the Architect. All locks shall be keyed into the same system as is used on the existing building. SFIC MARSHAL BEST
- B.** Key locks in sets or subsets, master key and grand master key as directed by Owner.
- C.** Furnish the required number of keys for each keyed group in quantity as directed by the Owner.
- D.** Grand master and master keys shall be delivered by registered mail direct from the manufacturer to the Owner.

## **PART 3: EXECUTION**

### **3.01 EXAMINATION**

- A.** Examine doors, frames, and related items for conditions that would prevent the proper application of finish hardware. Do not proceed until defects are corrected.

### **3.02 INSTALLATION**

- A.** Install each hardware item in strict compliance with the manufacturer's printed instructions and recommendations, using only fasteners supplied by, or called for by the manufacturer.
- B.** Set units level, plumb and true to the line and location. Prepare and reinforce the attachment substrate as necessary for proper installation and operation.
- C.** Mortise and cut to close tolerance and conceal evidence of cutting in the finished work. Drill and countersink units which are not factory prepared for anchorage fasteners.

- D. If manufacturer's instructions do not call out a mounting location, refer to the Door and Hardware Institute's publication *Recommended Locations for Architectural Hardware*.
- E. Deliver to the Owner one (1) complete set of installation and adjustment instructions, as well as all tools that were furnished with the hardware.

### 3.03 ADJUSTMENT AND CLEANING

- A. At final completion, adjust and check each operating item of hardware at each door to ensure proper operation and function of every unit. Lubricate any moving parts that do not operate freely, smoothly, and quietly using only lubricant as recommended by the manufacturer of the hardware item. Replace units that cannot be adjusted or lubricated to operate properly.
- B. Instruct the Owner's personnel in the proper adjustments of the hardware as needed.
- C. Clean and restore hardware to the original finish.

### 3.04 HARDWARE SCHEDULE

#### END OF SECTION 08 71 00

### WTC RESIDENCE HALL REMODEL 4<sup>TH</sup> THRU 6<sup>TH</sup> FLOORS

HARDWARE GROUP 1  
EACH SINGLE DOOR TO HAVE  
DR. 411,413,511,513,605,607

3 EA	BUTTS	5BB1 4.5 X 4.5 652	IVES
1 EA	STORERM LOCK	MB1-3-05-15D 626	MBS
1 EA	CLOSER	4040XP REG 689	LCN
1 EA	SMOKE GASKET	F797B17	REESE

THESE OPENINGS HAVE 1-3/4 DRS WITH WELDED CURRIES FRAMES.

HARDWARE GROUP 2  
EACH SINGLE DOOR TO HAVE  
DR. 4S1,4S2,5S1,5S2,6S1,6S2

3 EA	BUTTS	5BB1 4.5 X 4.5 652	IVES
1 EA	PASSAGE LOCK	MB1-3-30-15D 626	MBS
1 EA	CLOSER	4040XP REG 689	LCN
1 EA	SMOKE GASKET	F797B17	REESE

THESE OPENINGS HAVE 1-3/4 DRS WITH WELDED CURRIES FRAMES.

HARDWARE GROUP 3  
EACH SINGLE DOOR TO HAVE  
DR. A(24 EACH AT FLOORS 4,5,6)

3 EA	BUTTS	5BB1 4.5 X 4.5 652	IVES
1 EA	MOBILE ENABLED LOCK	NDESI-B-RHO-626(BY OWNER)	SCHLAGE
1 EA	SFIC CORE	MBS-IC-7-_-626	MBS
1 EA	CLOSER	1250 RWP A 689	LCN
1 EA	SMOKE GASKET	F797B17	REESE

GATEWAYS NOT NEEDED FOR ALL LOCKS, EACH GATEWAY CAN DO 8-10 LOCKS  
BASED ON GATEWAY LOCATION SEE PLAN LAYOUT FOR QTY OF GATEWAYS REQ.

THESE DOORS ARE 1-3/4 THICK CURRENTLY IN TIMELY/REDI FRAMES.

HARDWARE GROUP 3A  
EACH SINGLE DOOR TO HAVE  
DR. A(22 EACH AT FLOORS 1,2,3)

1 EA	MOBILE ENABLED LOCK	NDESI-B-RHO-626(BY OWNER)	SCHLAGE
1 EA	SFIC CORE	MBS-IC-7-_-626	MBS

GATEWAYS NOT NEEDED FOR ALL LOCKS, EACH GATEWAY CAN DO 8-10 LOCKS  
BASED ON GATEWAY LOCATION SEE PLAN LAYOUT FOR QTY OF GATEWAYS REQ.

THESE DOORS ARE 1-3/4 THICK CURRENTLY IN TIMELY/REDI FRAMES.

HARDWARE GROUP 4  
EACH SINGLE DOOR TO HAVE  
DR.B(48EA),C(45EA)

3 EA	BUTTS	5BB1 3.5 X 3.5 RADIUS 652	IVES
1 EA	PRIVACY LOCK	MB1-3-20-15D 626	MBS
1 EA	REUSE ALL OTHER FRAME, AND HARDWARE		

THESE OPENINGS HAVE 1-3/8 DOORS ON THEM CURRENTLY, IF FRAMES TO BE  
CHANGED OUT TO CURRIES KNOCKDOWN FRAMES AND 1-3/4 THICK DOORS REVISE  
HINGES ABOVE TO 4.5 X 4.5 SQ CORNER

HARDWARE GROUP 5  
EACH SINGLE DOOR TO HAVE  
DR.D(27EA)

3 EA	BUTTS	5BB1 3.5 X 3.5 RADIUS 652	IVES
1 EA	STORERM LOCK	MB1-3-05-15D 626	MBS
1 EA	REUSE ALL OTHER FRAME, AND HARDWARE		

THESE OPENINGS HAVE 1-3/8 DOORS ON THEM CURRENTLY, IF FRAMES TO BE CHANGED OUT TO CURRIES KNOCKDOWN FRAMES AND 1-3/4 THICK DOORS REVISE HINGES ABOVE TO 4.5 X 4.5 SQ CORNER

HARDWARE GROUP 6  
EACH SINGLE DOOR TO HAVE  
DR.EXISTING STOREFRONT INTERIOR AND EXTERIOR MAIN OPENINGS

2 EA	AUTO OPERATORS	9542 36" HDR 628	LCN
2 EA	MOUNTING PLATES	9540-18 78" 628	LCN

HARDWARE GROUP 7  
EACH SINGLE DOOR TO HAVE  
DR.404A,504A

3 EA	BUTTS	5BB1 4.5 X 4.5 652	IVES
1 EA	STORERM LOCK	MB1-3-05-15D 626	MBS
1 EA	AUTO OPERATOR	9530 36"HDR 628	LCN
1 EA	ACTUATORS	8310-856T	LCN
1 EA	ELECTRIC STRIKE	6211 US32D	VONDUPRIN
1 EA	SMOKE GASKET	F797B17	

REESE

AUTO OPERATOR ON OUTSIDE OF ROOM IS CONTROLLED BY CARD READER

HARDWARE GROUP 8  
EACH SINGLE DOOR TO HAVE  
DR.103A

3 EA	BUTTS	5BB1 4.5 X 4.5 652	IVES
1 EA	STORERM LOCK	MB1-3-05-15D 626	MBS
1 EA	ELECTRIC STRIKE	6211 US32D	VONDUPRIN

CARD READER UNLOCKS ELEC STRIKE AND OPENS DOOR, THIS ROOM ALREADY HAS AUTO OPERATOR ON DOOR SO JUST INTEGRATING CARD ACCESS TO THIS OPENING.

**END OF SECTION 08 71 00**

**SECTION 08 88 13**  
**FIRE-RATED GLAZING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Fire-rated glazing units.

**1.02 RELATED REQUIREMENTS**

- A. Applicable provisions of Division 1 govern work under this Section.

**1.03 REFERENCE STANDARDS**

- A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; Current Edition.
- B. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2025.
- C. GANA (GM) - GANA Glazing Manual; 2022.
- D. GANA (SM) - GANA Sealant Manual; 2008.
- E. IGMA TM-3000 - North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial & Residential Use; 1990 (Reaffirmed 2016).
- F. ITS (DIR) - Directory of Listed Products; Current Edition.
- G. NGA (LGRM) - Laminated Glazing Reference Manual; 2019.
- H. UL (DIR) - Online Certifications Directory; Current Edition.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements for procedures.
- B. Provide submittal transmittals that include all submittal items identified in each submittal group below.
- C. Review Submittals - Preparatory:
  - 1. Product Data on Glazing Unit Glazing Types: Provide structural, physical, and environmental characteristics, size limitations, special handling and installation requirements.
  - 2. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
- D. Closeout Submittals:
  - 1. See Section 01 78 00 - Closeout Submittals for additional information regarding documenting warranties.
  - 2. Warranty Documentation: Submit documentation of manufacturer's warranty that acknowledges the requirements defined in this section.
    - a. Provide procurement information including date(s) of procurement, identification of suppliers and contractors involved in the procurement.
    - b. Provide manufacturer certification of the warranty that is executed in the Owner's name.

**1.05 QUALITY ASSURANCE**

- A. Perform work in accordance with GANA (GM), GANA (SM), IGMA TM-3000, and NGA (LGRM) for glazing installation methods. Maintain one copy on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- C. Installer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.

### **1.06 FIELD CONDITIONS**

- A. Ambient Conditions: Do not install glazing when ambient temperature is less than 40 degrees F.
- B. Maintain minimum ambient temperature before, during, and 24 hours after installation of glazing compounds.

### **1.07 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
- B. Section Specific Warranty: Provide manufacturer's standard warranty as described in this section. Document the warranty as defined under the Submittals heading of this section.

## **PART 2 PRODUCTS**

### **2.01 GLASS MATERIALS**

- A. Float Glass: Provide float glass based glazing unless otherwise indicated.

### **2.02 GLAZING UNITS**

- A. Type GLT-25 - Fire-Resistance-Rated Glazing: Type, thickness, and configuration of glazing that contains flame, smoke, and blocks radiant heat, as required to achieve indicated fire rating period exceeding 45 minutes.
  - 1. Applications: Stairway doors with glazed lites as indicated.
  - 2. Provide products listed by ITS (DIR) or UL (DIR) and approved by authorities having jurisdiction.
  - 3. Safety Glazing Certification: 16 CFR 1201 Category II.
  - 4. Fire Rating Period: As indicated on drawings.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
- B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.

### **3.02 PREPARATION**

- A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.
- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

### **3.03 INSTALLATION - GENERAL**

- A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers unless more stringent requirements are indicated, including those in referenced glazing standards.
- B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.
- C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.
- D. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.
- E. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.
- F. Prevent glass from contact with contaminating substances that may result from construction operations including, but not limited to weld spatter, fire-safing, plastering, mortar droppings, etc.

### **3.04 PROTECTION**

- A. After installation, mark pane with 'X' by using removable plastic tape or paste; do not mark heat-absorbing or reflective glass units.
- B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

**END OF SECTION**

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WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION  
820 LA CROSSE STREET  
LA CROSSE, WI 54601



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

**HSR ASSOCIATES INC.**  
100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

25040

DECEMBER 2025

BID DOCUMENTS

INDEX OF DRAWINGS

PROJECT TEAM

PROJECT MANAGER:	HSR ASSOCIATES, INC. DOUG RAMSEY dramsey@hsrassociates.com 608.784.1830
PROJECT ARCHITECT:	HSR ASSOCIATES, INC. MICHELLE MALAND mmaland@hsrassociates.com 608.784.1830
JOB CAPTAIN:	HSR ASSOCIATES, INC. KAIT HEGEWALD khegewald@hsrassociates.com 608.784.1830
ARCHITECTURAL TECH:	HSR ASSOCIATES, INC. MIKE LORENS mlorens@hsrassociates.com 608.784.1830
INTERIOR DESIGN:	HSR ASSOCIATES, INC. BRANDY ERNST bernst@hsrassociates.com 608.784.1830
SPECIFICATIONS:	HSR ASSOCIATES, INC. TOBIN FAUCHEUX tfauchaux@hsrassociates.com 608.784.1830
CONSTRUCTION ADMIN:	HSR ASSOCIATES, INC. SEAN CAIN scain@hsrassociates.com 608.784.1830
PLUMBING:	HSR ASSOCIATES, INC. RYAN JOHNSON rjohnson@hsrassociates.com 608.784.1830
MECHANICAL:	HSR ASSOCIATES, INC. JAKE BERAN jberan@hsrassociates.com 608.784.1830
ELECTRICAL:	HSR ASSOCIATES, INC. JEFF HANKEY jhankey@hsrassociates.com 608.784.1830

GENERAL

G000	COVER SHEET
G002	ADA MOUNTING HEIGHTS

ARCHITECTURAL

AD104	4TH FLOOR DEMOLITION PLAN
AD105	5TH FLOOR DEMOLITION PLAN
AD106	6TH FLOOR DEMOLITION PLAN
A104	4TH FLOOR PLAN
A105	5TH FLOOR PLAN
A106	6TH FLOOR PLAN
A200	BUILDING ELEVATIONS
A210	CASEWORK ELEVATIONS
A211	CASEWORK DETAILS
A400	ENLARGED PLANS
A601	DOOR SCHEDULE

INTERIOR DESIGN

ID101	4TH FLOOR FINISH PLAN
ID102	5TH FLOOR FINISH PLAN
ID103	6TH FLOOR FINISH PLAN
ID600	MASTER COLOR SCHEDULE

PLUMBING

P001	PLUMBING TITLE SHEET
P104	4TH FLOOR PLUMBING PLAN
P105	5TH FLOOR PLUMBING PLAN
P106	6TH FLOOR PLUMBING PLAN
PD104	4TH FLOOR DEMOLITION PLAN
PD105	5TH FLOOR DEMOLITION PLAN
PD106	6TH FLOOR DEMOLITION PLAN

MECHANICAL

M001	HVAC GENERAL INFO SHEET
M094	4TH FLOOR DEMOLITION PLAN
M095	5TH FLOOR DEMOLITION PLAN
M096	6TH FLOOR DEMOLITION PLAN
M104	4TH FLOOR PLAN
M105	5TH FLOOR PLAN
M106	6TH FLOOR PLAN
M600	HVAC SCHEDULES

ELECTRICAL

ED104	4TH FLOOR LIGHTING- DEMO PLAN
ED105	5TH FLOOR LIGHTING- DEMO PLAN
ED106	6TH FLOOR LIGHTING- DEMO PLAN
ED204	4TH FLOOR POWER- DEMO PLAN
ED205	5TH FLOOR POWER- DEMO PLAN
ED206	6TH FLOOR POWER- DEMO PLAN
ED100	LOWER LEVEL LIGHTING- DEMO PLAN
FD101	1ST FLOOR LIGHTING- DEMO PLAN
FD104	4TH FLOOR FIRE ALARM- DEMO PLAN
FD105	5TH FLOOR FIRE ALARM- DEMO PLAN
FD106	6TH FLOOR FIRE ALARM- DEMO PLAN
E001	ELECTRICAL SYMBOLS, NOTES, ABBREVIATIONS
E002	ELECTRICAL NOTES AND SCHEDULES
E104	4TH FLOOR LIGHTING PLAN
E105	5TH FLOOR LIGHTING PLAN
E106	6TH FLOOR LIGHTING PLAN
E204	4TH FLOOR POWER PLAN
E205	5TH FLOOR POWER PLAN
E206	6TH FLOOR POWER PLAN
E301A	ALL FLOORS DOOR ACCESS PLAN
E500	ELECTRICAL DETAILS
E501	ENLARGED LIGHTING, UNIT TYPES "A"&"B"
E502	ENLARGED LIGHTING, UNIT TYPES "C"&"D"
FA100	LOWER LEVEL FIRE ALARM PLAN
FA101	1ST FLOOR FIRE ALARM
FA104	4TH FLOOR FIRE ALARM
FA105	5TH FLOOR FIRE ALARM
FA106	6TH FLOOR FIRE ALARM

CODE DATA: IBC 2021 WITH WISCONSIN AMENDMENTS

Chapter 5: General Building Heights and Areas
a. Table 506.2 – R-2 - SM - Type IB – Unlimited
Chapter 6 – Types of Construction
a. Type IB
6th Floor: 5,579 SF
5th Floor: 12,300 SF
4th Floor: 12,300 SF
Total area Level 1 Remodel: 30,179 SF
Chapter 9 - Fire Protection and Life Safety Systems
a. 903.2.8 Fully Sprinkled - NFPA13
b. 907.2.9 Full Fire alarm and smoke alarm system
Chapter 10 – Means of Egress
a. Occupant Load – 56 occ (in phase 1 floors 4, 5 and 6)
b. Table 1006.2.1 Common Path of Egress Travel – 125 feet
c. Table 1017.2 Exit Access Travel Distance: R-2 Occupancy– 250 feet
Chapter 11 – Accessibility - ANSI A117.1
a. Chapter 6 International Existing Building Code
i. 605.1.1 Entrances – Accessible main entry
ii. 605.1.10 Toilet Rooms.

CODE DATA LEGEND:

○ EX-FEC EXISTING FIRE EXTINGUISHER-CABINET

PROJECT LOCATION:  
820 LA CROSSE STREET  
LA CROSSE, WI 54601



CITY MAP

SITE LOCATION MAP

WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION

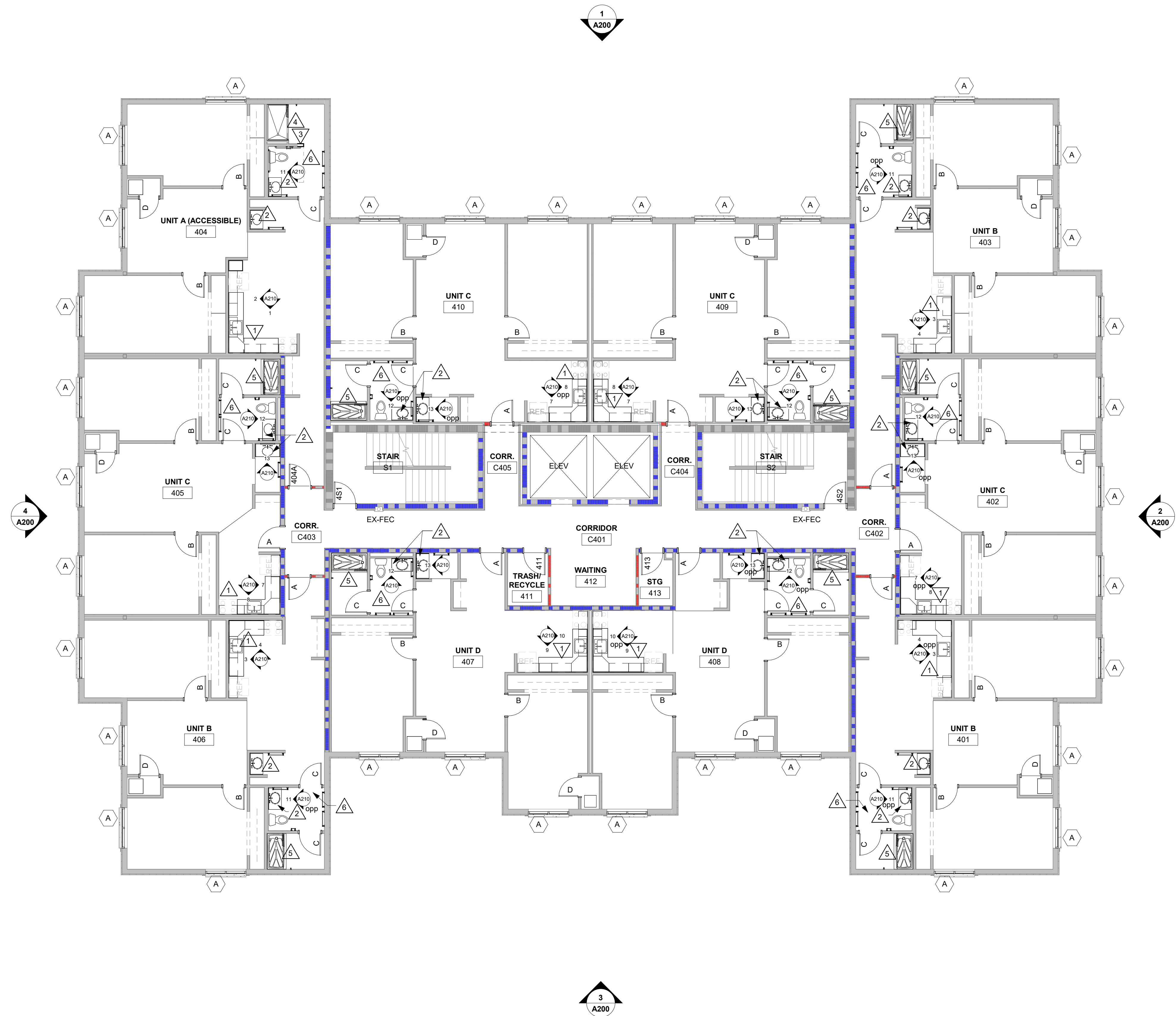
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LA CROSSE, WI 54601

Sheet Title: COVER SHEET

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Project Date:		DECEMBER 2025
Drawn By:		MPL
Key Plan:		
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Revisions:		
No.	Description	Date
A02	Addendum 02	01/07/26
Graphic Scale:		
VARIES		
Last Update:		
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G000





# 1 4TH FLOOR PLAN

1/8" = 1'-0"

**PLAN GENERAL NOTES:**

- A. REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
- B. SEE ID SHEETS FOR FLOOR FINISH LAYOUTS.
- C. LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
- D. PAINT ALL NEW AND EXISTING DOOR FRAMES ALIKE. SEE ID.

**PLAN LEGEND:**

- A. SYMBOL INDICATES WINDOW TYPE. SEE SHEET A200 FOR WINDOW FRAME ELEVATIONS. "ALTERNATE"
- △. SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- 1 HOUR WALL
- 2 HOUR WALL

**KEY NOTES PLAN**

1	NEW PLAM BASE AND WALL CABINETS. SEE SHEET A210.
2	SOLID SURFACE COUNTER WITH INTEGRAL SINK.
3	METAL STUD AND GYP WALL EXTENSION TO ALLOW FOR INSTALLATION OF GRAB BAR.
4	ADA BORN LN SHOWER PAN - SEE SPEC.
5	YRCS AB SHOWER PAN - SEE SPEC.
6	PROVIDE NEW VINYL FACED CEILING TILE AROUND NEW EXHAUST FAN - COORDINATE WITH MECHANICAL.

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LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

**Consultant:**

**WESTERN TECHNICAL COLLEGE  
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Project Title: 820 LA CROSSE STREET  
LA CROSSE, WI 54601  
Project Location: 4TH FLOOR PLAN  
Sheet Title:

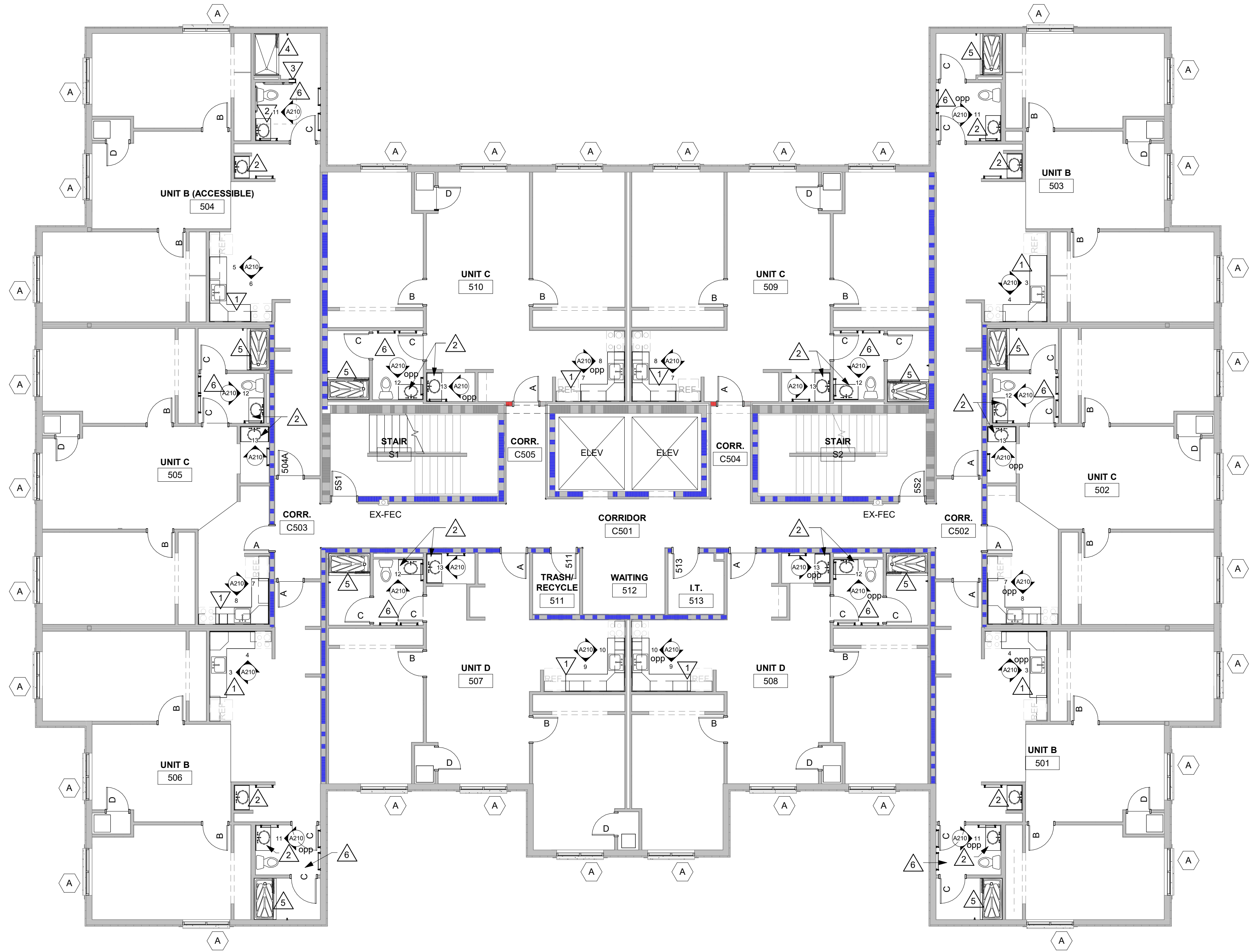
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A02	Addendum 02	01/07/26

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**VARIES**

**A104**



# 1 5TH FLOOR PLAN

1/8" = 1'-0"

## PLAN GENERAL NOTES:

- A. REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
- B. SEE ID SHEETS FOR FLOOR FINISH LAYOUTS.
- C. LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
- D. PAINT ALL NEW AND EXISTING DOOR FRAMES ALIKE. SEE ID.

## PLAN LEGEND:

- SYMBOL INDICATES WINDOW TYPE. SEE SHEET A200 FOR WINDOW FRAME ELEVATIONS. "ALTERNATE"
- SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- 1 HOUR WALL
- 2 HOUR WALL

## KEY NOTES PLAN

- 1. NEW PLAM BASE AND WALL CABINETS. SEE SHEET A210.
- 2. SOLID SURFACE COUNTER WITH INTEGRAL SINK.
- 3. METAL STUD AND GYP WALL EXTENSION TO ALLOW FOR INSTALLATION OF GRAB BAR.
- 4. ADA ROLL-IN SHOWER PAN - SEE SPEC.
- 5. TRICKY FAB SHOWER PAN - SEE SPEC.
- 6. PROVIDE NEW VINYL FACED CEILING TILE AROUND NEW EXHAUST FAN - COORDINATE WITH MECHANICAL.

A02

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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

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Project Location: 820 LA CROSSE STREET  
LA CROSSE, WI 54601

Sheet Title: 5TH FLOOR PLAN

Project Number: 25040

Project Date: DECEMBER 2025

Drawn By: MPL/ KH

Key Plan:

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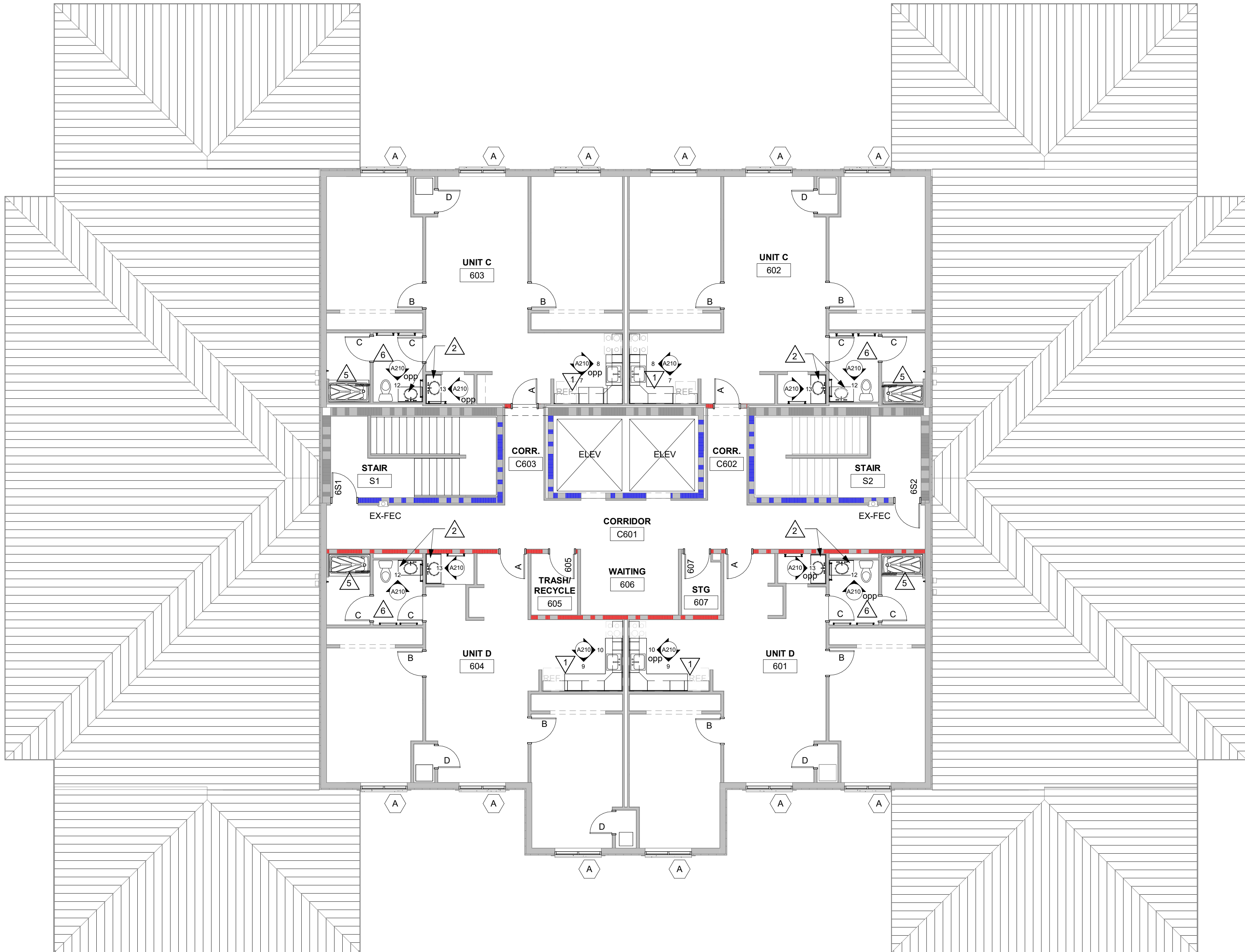
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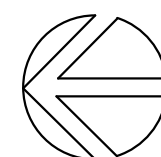
A105





# 1 6TH FLOOR PLAN

1/8" = 1'-0"



**PLAN GENERAL NOTES:**

- A. REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
- B. SEE ID SHEETS FOR FLOOR FINISH LAYOUTS.
- C. LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
- D. PAINT ALL NEW AND EXISTING DOOR FRAMES ALIKE. SEE ID.

**PLAN LEGEND:**

- SYMBOL INDICATES WINDOW TYPE. SEE SHEET A200 FOR WINDOW FRAME ELEVATIONS. "ALTERNATE"
- SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- 1 HOUR WALL
- 2 HOUR WALL

**KEY NOTES PLAN**

1	NEW PLAM BASE AND WALL CABINETS. SEE SHEET A210.
2	SOLID SURFACE COUNTER WITH INTEGRAL SINK.
3	METAL STUD AND GYP WALL EXTENSION TO ALLOW FOR INSTALLATION OF GRAB BAR.
4	PRE-FAB SHOWER PAN. SEE SPEC.
5	PROVIDE NEW VINYL FACED CEILING TILE AROUND NEW EXHAUST FAN - COORDINATE WITH MECHANICAL.

A02

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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

Project Title:  
WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION

Project Location:  
820 LA CROSSE STREET  
LA CROSSE, WI 54601

Sheet Title:  
6TH FLOOR PLAN

HSR Project Number:  
25040

Project Date:  
DECEMBER 2025

Drawn By:  
MPL/ KH

Key Plan:

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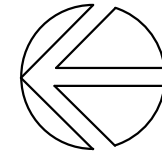
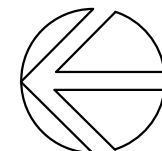
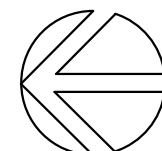
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A02

A02

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$$1/16'' = 1'-0''$$

$$1/16'' = 1'-0''$$

$$1/16'' = 1'-0''$$

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# A601




ELEVATION LEGEND:

◻

WINDOW TAG - SEE THIS SHEET FOR FRAME ELEVATIONS AND DETAILS.

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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION

Project Location: 820 LA CROSSE STREET  
LA CROSSE, WI 54601

Project Title: BUILDING ELEVATIONS

Project Title: HSR Project Number: 25040  
Project Date: DECEMBER 2025  
Drawn By: MPL/ KH

Key Plan:

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No.	Description	Date
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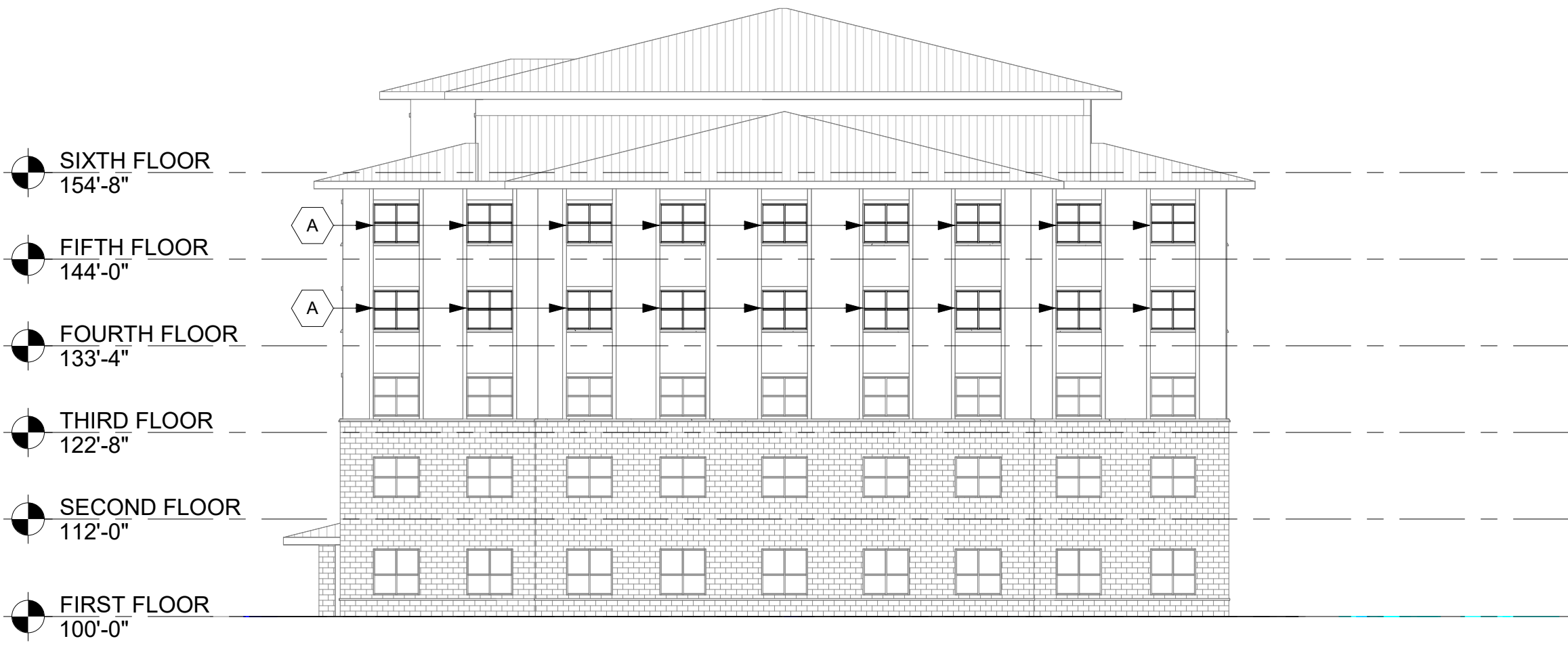
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A200



1 EAST ELEVATION  
1/16" = 1'-0"



2 SOUTH ELEVATION  
1/16" = 1'-0"

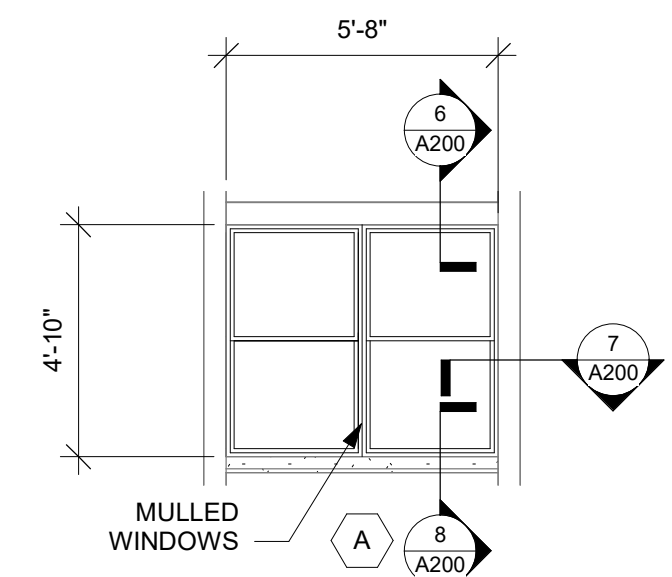
WINDOW REPLACEMENT IS ALTERNATE



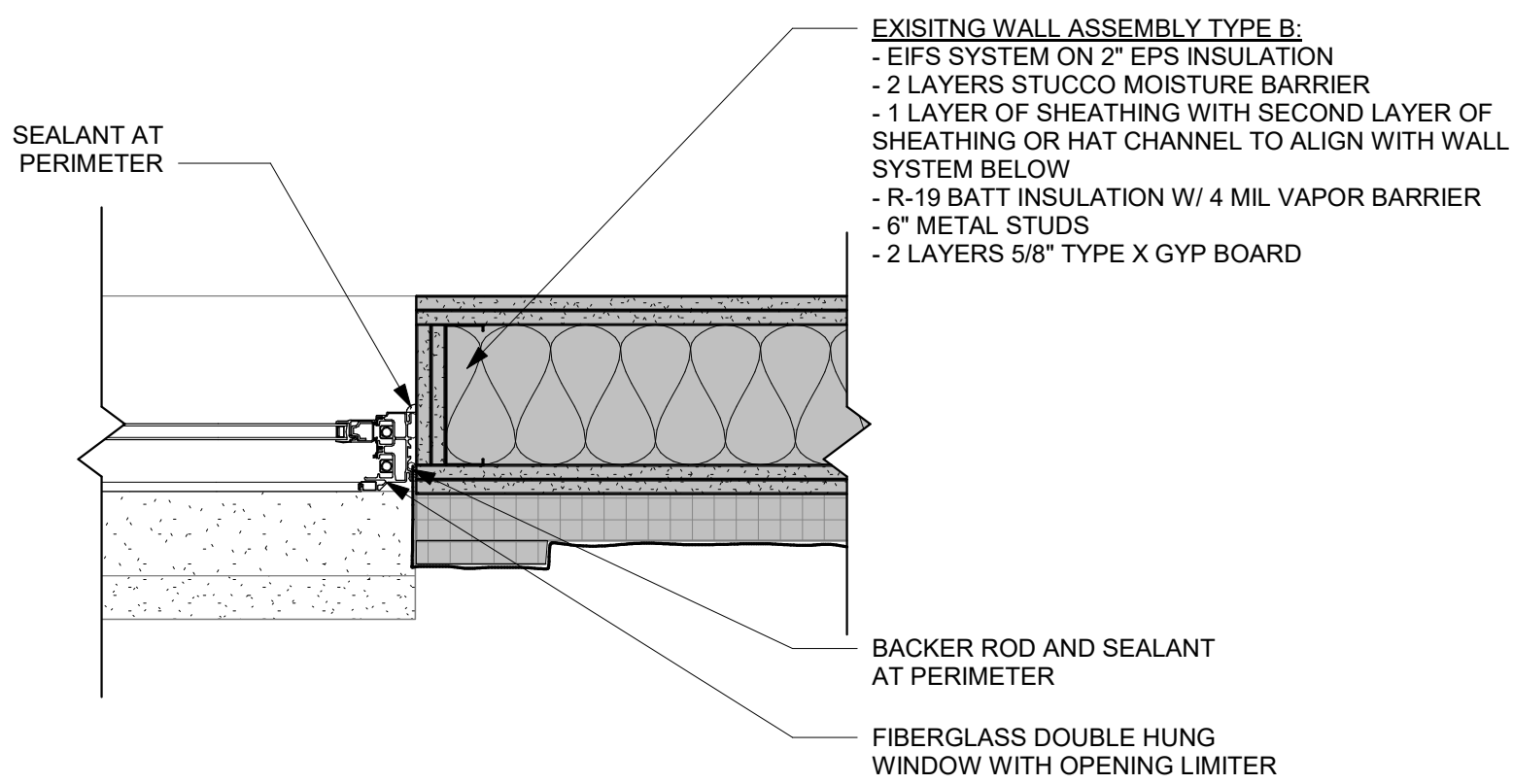
3 WEST ELEVATION  
1/16" = 1'-0"



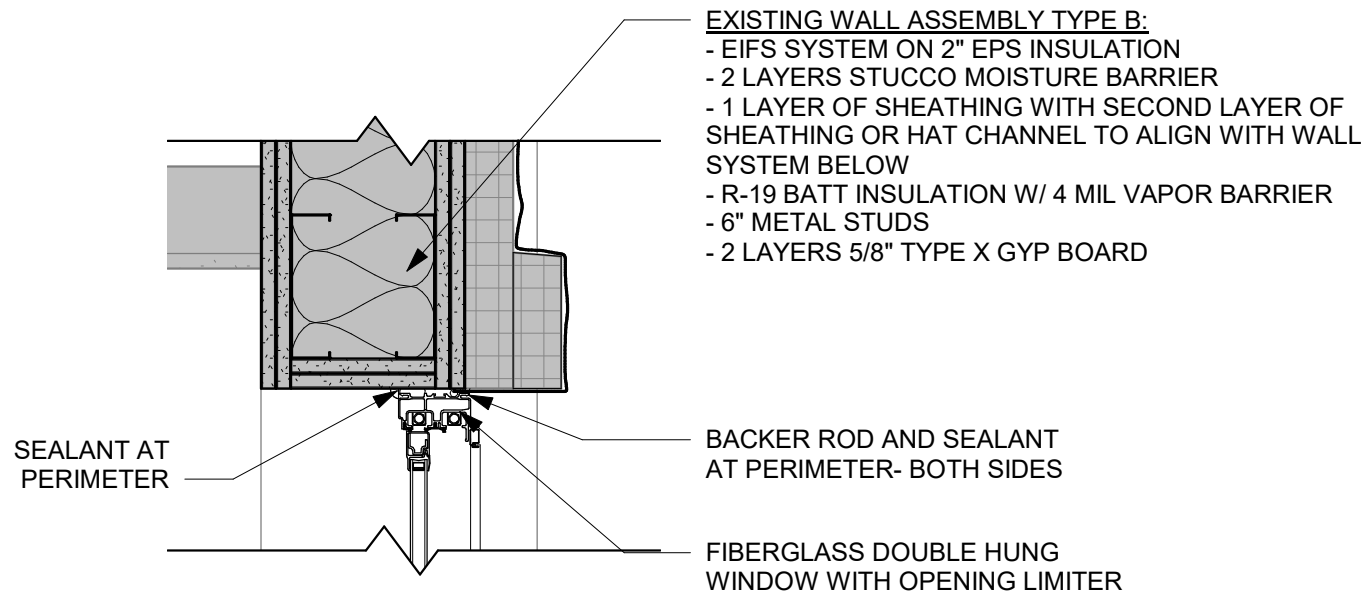
4 NORTH ELEVATION  
1/16" = 1'-0"



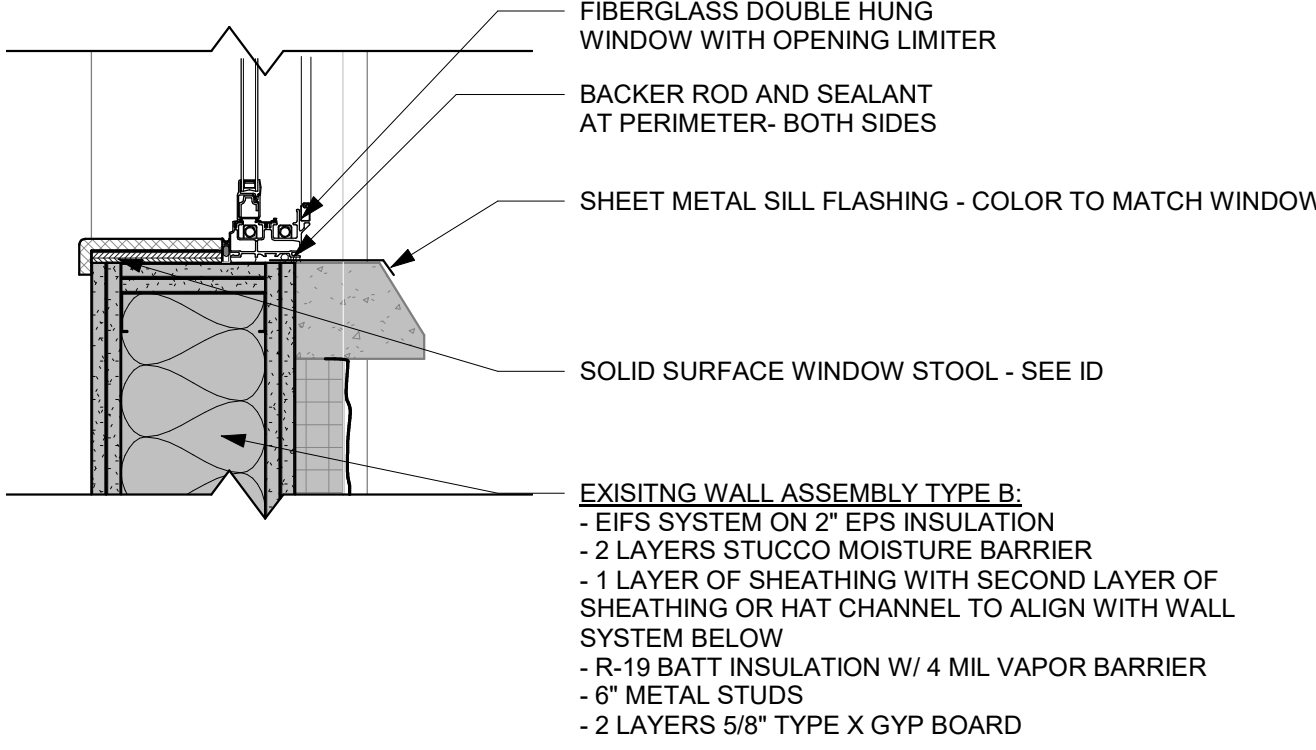
5 WINDOW ELEV  
1/4" = 1'-0"



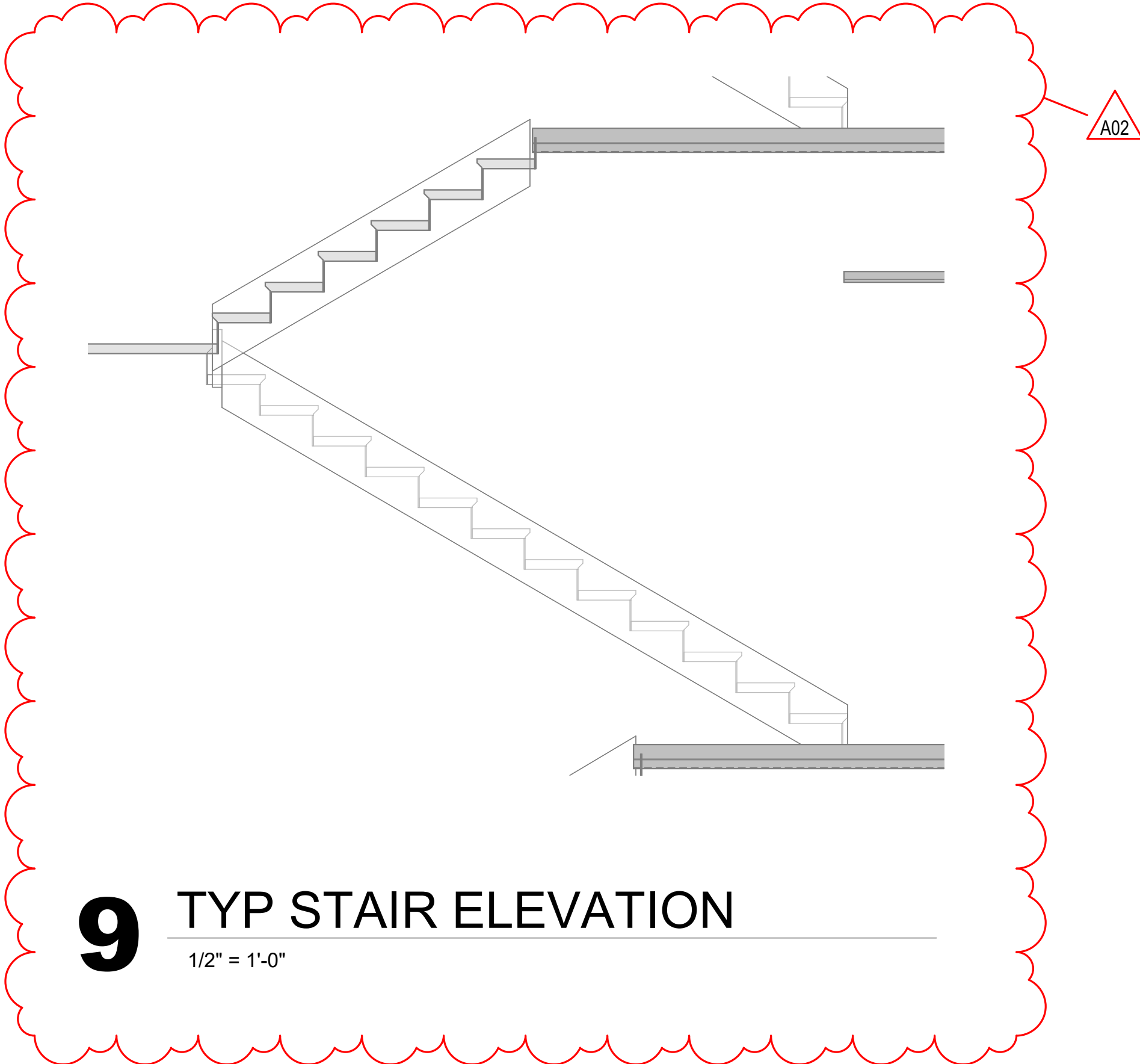
7 WDW JAMB DETAIL  
1 1/2" = 1'-0"



6 WDW HEAD DETAIL  
1 1/2" = 1'-0"

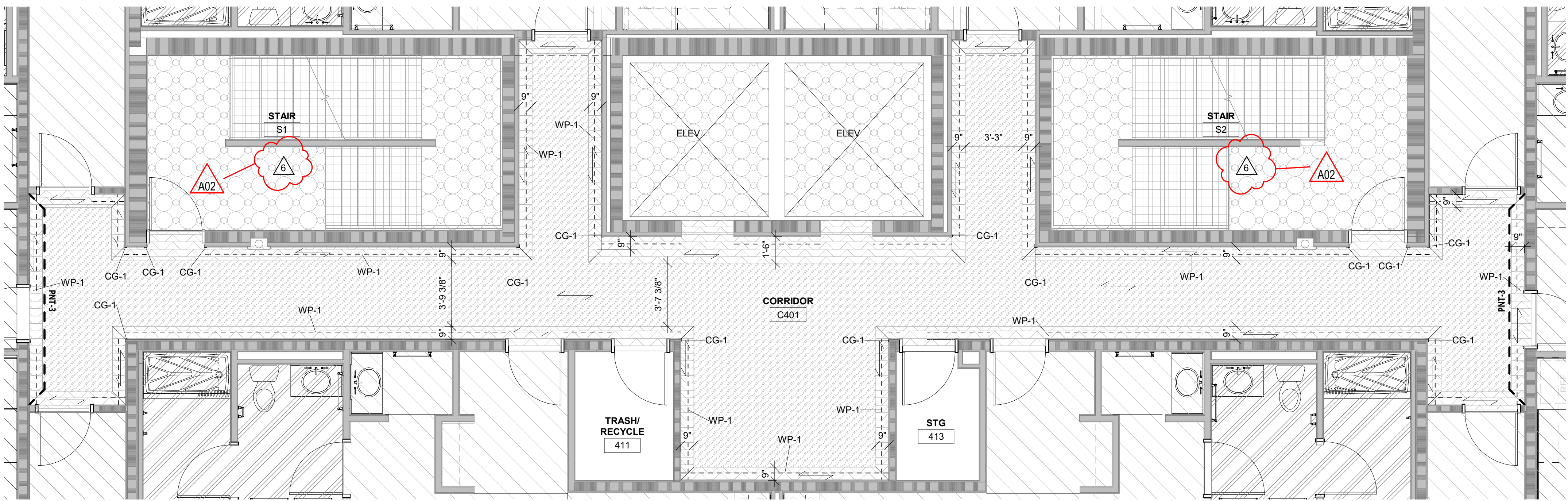


8 WDW SILL DETAIL  
1 1/2" = 1'-0"



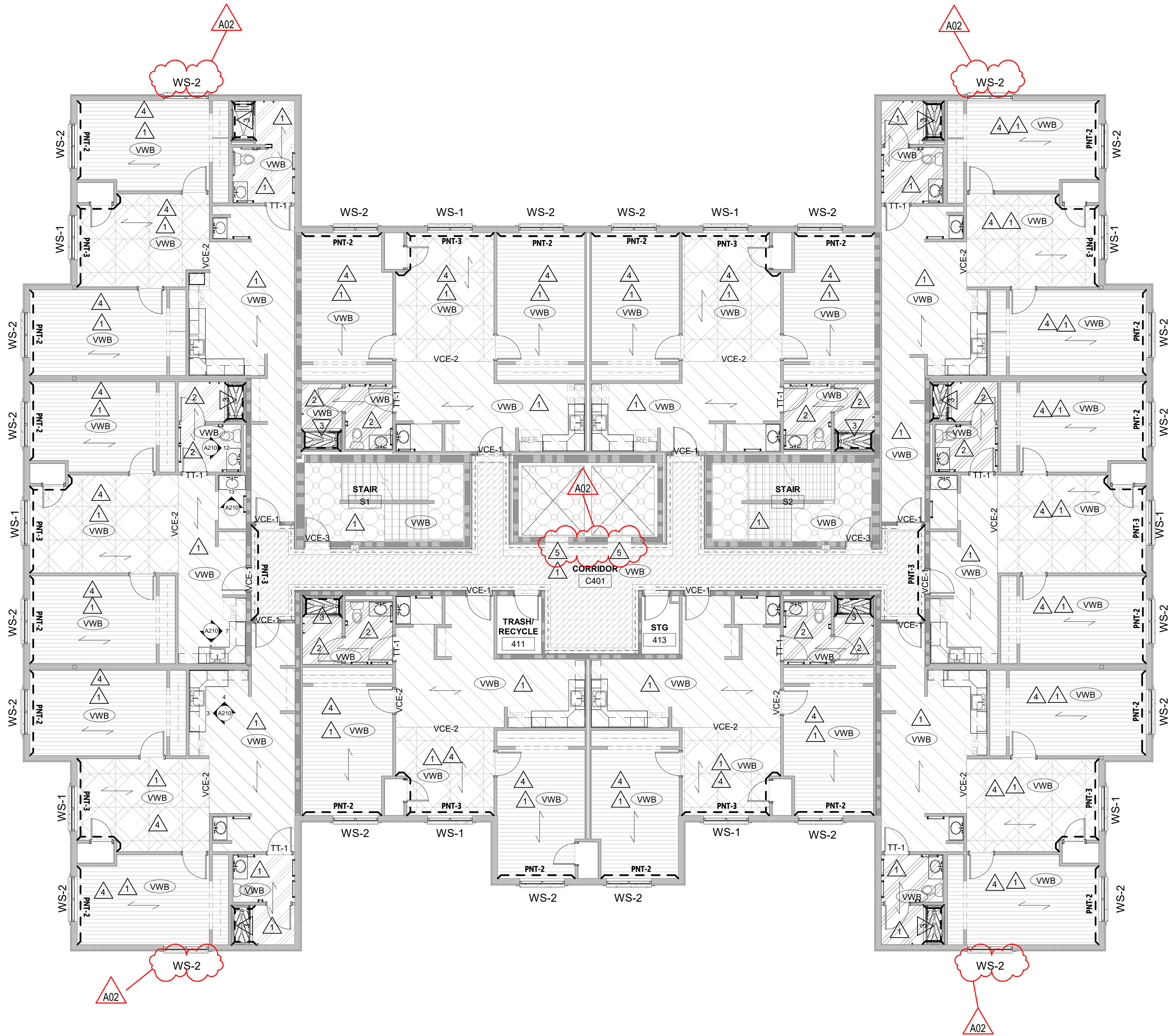
9 TYP STAIR ELEVATION  
1/2" = 1'-0"





2 4th & 5th FLOOR CORRIDOR DETAILS

1/4" = 1'-0"



1 4TH FLOOR FINISH PLAN

1/8" = 1'-0"

INTERIOR GENERAL NOTES:

- A. REFERENCES TO PAINT PERTAIN TO COLOR ONLY. PAINT TYPE SHALL BE IDENTIFIED IN THE ARCHITECTURAL SPECIFICATIONS.
- B. PNT-1 FIELD PAINT; ACCENT PAINT AS INDICATED. SEE ID SHEETS.
- C. REFER TO MASTER COLOR SCHEDULE ON ID600 & ID601 FOR MATERIAL FINISH SPECIFICATIONS, ANNOTATIONS, AND ADDITIONAL INFORMATION.
- D. TOILET ROOM WALL AND FLOOR GROUT LINES SHALL ALIGN TO CONTINUE PATTERN THROUGHOUT. SEE A705 FOR ELEVATED PATTERNS.
- E. VINYL COMPOSITE EDGE (VCE) TO BE INSTALLED AT DISSIMILAR FINISH AREAS; REFER TO ID SHEETS. INSTALL APPROPRIATE EDGE PROFILE TO PROTECT FINISH EDGES. COLOR AS SELECTED BY A/E.
- F. AT DISSIMILAR FLOORING FINISHES, SET JOINT OF MATERIALS AT CENTER OF DOOR. TRANSITIONS TO BE ADA COMPLIANT.

INTERIOR FINISH KEY PLAN:

- SEE ROOM FINISH REMARKS
- XXX WALL BASE
- PNT-X ACCENT PAINT
- FLOOR DIRECTION
- WALL PROTECTION

INTERIOR FINISH LEGEND:

- LVT-1 RB-1 CPT-1
- TILE-1 RB-2 CPT-2
- CPT-3
- CPT-4

ROOM FINISH REMARKS

1. PAINT ALL WALLS PNT-1, ACCENT AS INDICATED ON PLANS.
2. PAINT ALL WALLS EPOXY PAINT PNT-1, ACCENT AS INDICATED ON PLANS.
3. PAINT ALL FLOOR SURFACES (S-2) WALL PANELS.
4. PAINT CEILING PNT-1.
5. PAINT ELEVATOR FRAMES AND DOOR PNT-4.
6. REPLACE FLOORING IN STAIR WITH RUBBER (SEE FINISH LEGEND & ID600) FROM BASEMENT TO 6TH FLOOR.

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HSR ASSOCIATES INC.  
100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

Project Title: WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION

HSR Project Number:  
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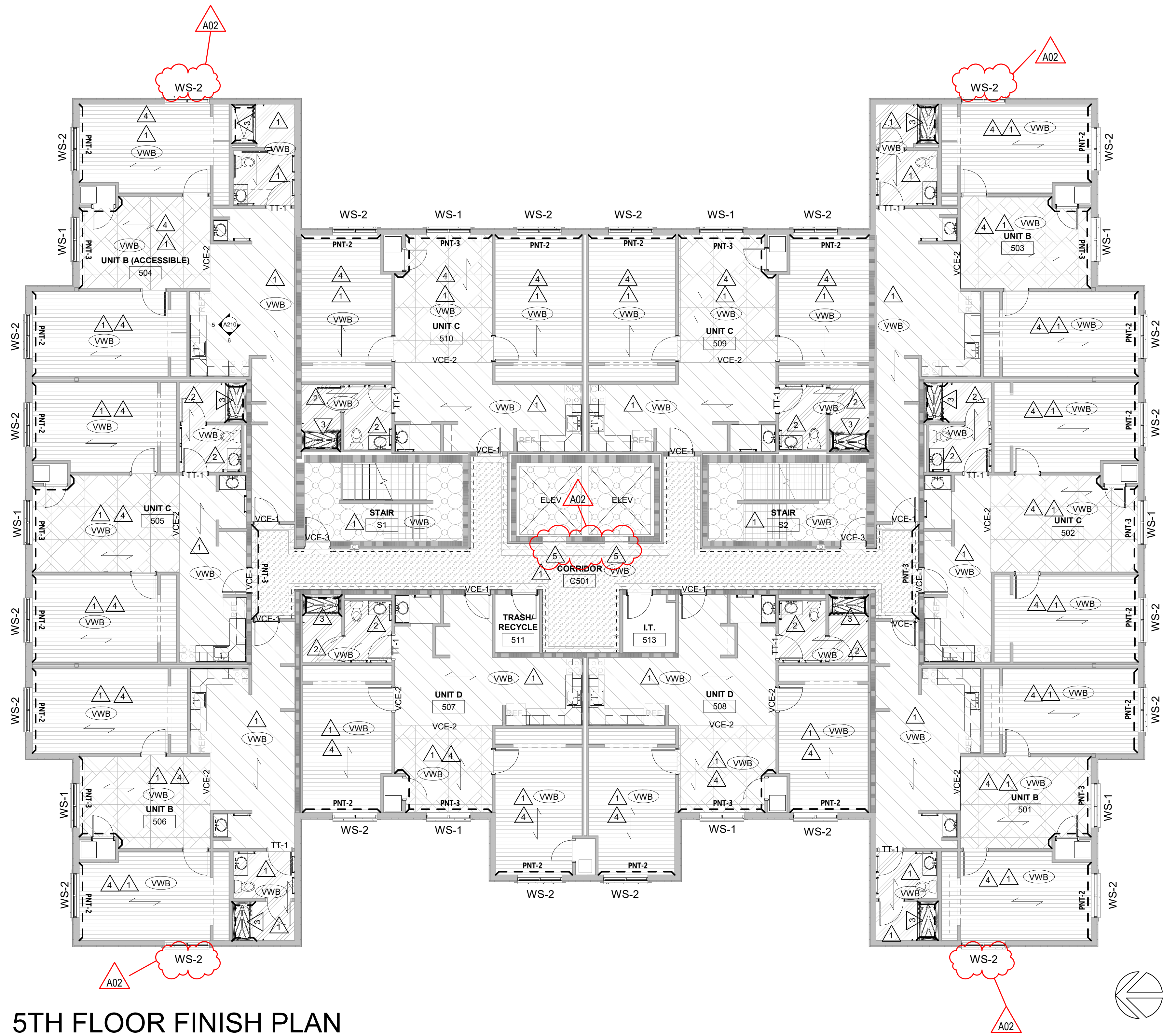
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ID101



1 5TH FLOOR FINISH PLAN

1/8" = 1'-0"



INTERIOR GENERAL NOTES:

- A. REFERENCES TO PAINT PERTAIN TO COLOR ONLY; PAINT TYPE SHALL BE IDENTIFIED IN THE ARCHITECTURAL SPECIFICATIONS.
- B. PNT-1 FIELD PAINT; ACCENT PAINT AS INDICATED. SEE ID SHEETS.
- C. REFER TO MASTER COLOR SCHEDULE ON ID60 & ID601 FOR MATERIAL FINISH SPECIFICATIONS, ANNOTATIONS, AND ADDITIONAL INFORMATION.
- D. TOILET ROOM WALL AND FLOOR GROUT LINES SHALL ALIGN TO CONTINUE PATTERN THROUGHOUT. SEE A705 FOR ELEVATED PATTERNS.
- E. VINYL COMPOSITE EDGE (VCE) TO BE INSTALLED AT DISSIMILAR FINISH AREAS; REFER TO ID SHEETS. INSTALL APPROPRIATE EDGE PROFILE TO PROTECT FINISH EDGES. COLOR AS SELECTED BY A/E.
- F. AT DISSIMILAR FLOORING FINISHES, SET JOINT OF MATERIALS AT CENTER OF DOOR, TRANSITIONS TO BE ADA COMPLIANT.

INTERIOR FINISH KEY PLAN:

- SEE ROOM FINISH REMARKS
- WALL BASE
- ACCENT PAINT
- FLOOR DIRECTION
- WALL PROTECTION

INTERIOR FINISH LEGEND:

- LVT-1
- TILE-1
- RB-1
- RB-2
- CPT-1
- CPT-2
- CPT-3
- CPT-4

ROOM FINISH REMARKS

1. PAINT ALL WALLS PNT-1, ACCENT AS INDICATED ON PLANS.
2. PAINT ALL WALLS EPOXY PAINT PNT-1, ACCENT AS INDICATED ON PLANS.
3. PAINT CEILING PNT-1.
4. PAINT ELEVATOR FRAMES AND DOOR PNT-4.
5. REPLACE FLOORING IN STAIR WITH RUBBER (SEE FINISH LEGEND & ID600) FROM BASEMENT TO 6TH FLOOR.

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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
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FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION

820 LA CROSSE STREET  
LA CROSSE, WI 54601

5TH FLOOR FINISH PLAN

HSR Project Number:  
25040

Project Date:  
DECEMBER 2025

Drawn By:  
BE

Key Plan:

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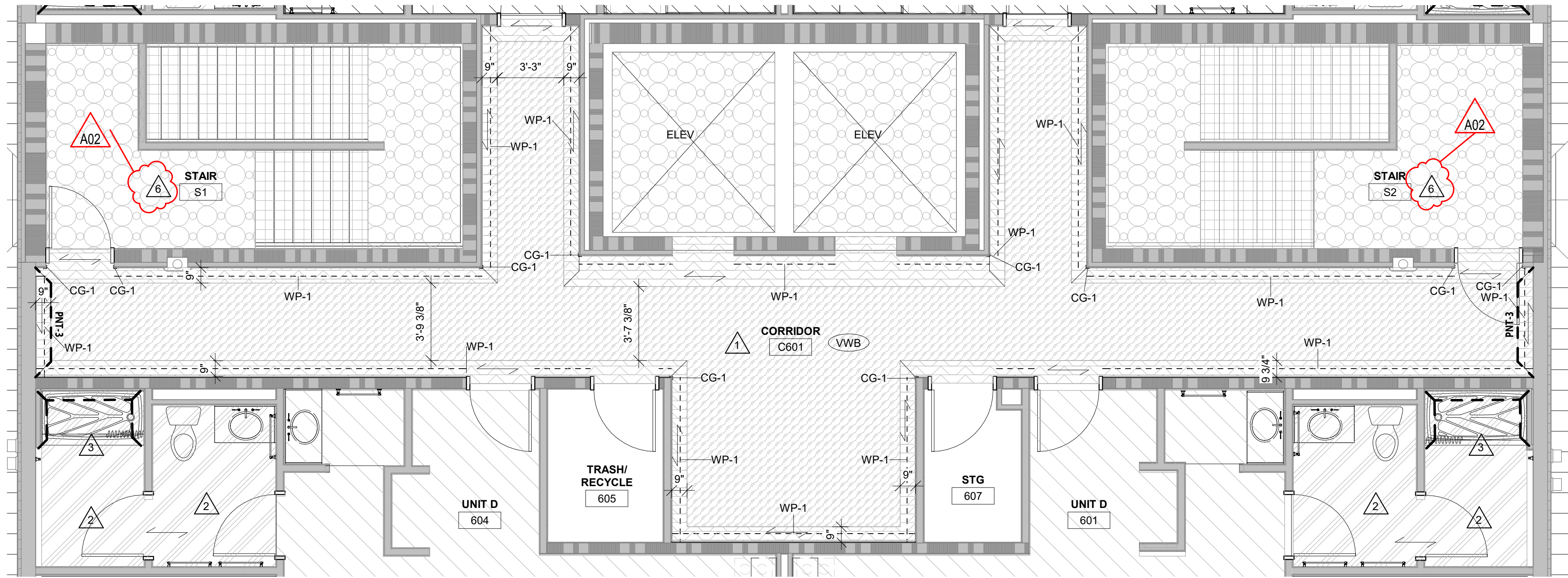
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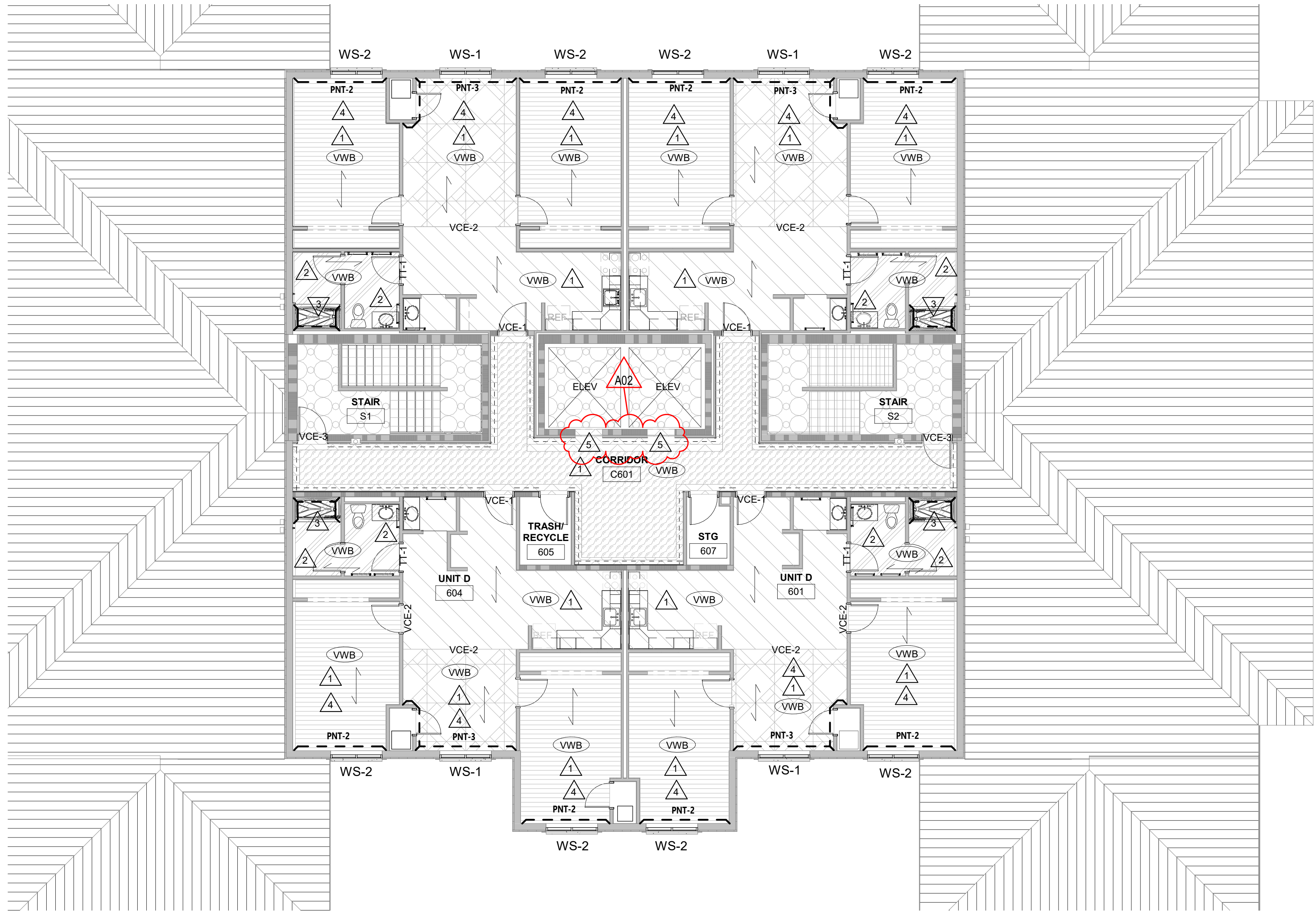
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ID102





**2** 6TH FLOOR CORRIDOR PLAN  
1/4" = 1'-0"



**1** 6TH FLOOR FINISH PLAN  
1/8" = 1'-0"

**INTERIOR GENERAL NOTES:**

- REFERENCES TO PAINT PERTAIN TO COLOR ONLY. PAINT TYPE SHALL BE IDENTIFIED IN THE ARCHITECTURAL SPECIFICATIONS.
- PNT-1 FIELD PAINT; ACCENT PAINT AS INDICATED. SEE ID SHEETS.
- REFER TO MASTER COLOR SCHEDULE ON ID600 & ID601 FOR MATERIAL FINISH SPECIFICATIONS, ANNOTATIONS, AND ADDITIONAL INFORMATION.
- TOILET ROOM WALL AND FLOOR GROUT LINES SHALL ALIGN TO CONTINUE PATTERN THROUGHOUT. SEE A705 FOR ELEVATED PATTERNING.
- VINYL COMPOSITE EDGE (VCE) TO BE INSTALLED AT DISSIMILAR FINISH AREAS. REFER TO ID SHEETS. INSTALL APPROPRIATE EDGE PROFILE TO PROTECT FINISH EDGES. COLOR AS SELECTED BY A/E.
- AT DISSIMILAR FLOORING FINISHES, SET JOINT OF MATERIALS AT CENTER OF DOOR. TRANSITIONS TO BE ADA COMPLIANT.

**INTERIOR FINISH KEY PLAN:**

- SEE ROOM FINISH REMARKS
- WALL BASE
- ACCENT PAINT
- FLOOR DIRECTION
- WALL PROTECTION

**INTERIOR FINISH LEGEND:**

LVT-1	RB-1	CPT-1
TILE-1	RB-2	CPT-2
		CPT-3
		CPT-4

**ROOM FINISH REMARKS**

- PAINT ALL WALLS PNT-1. ACCENT AS INDICATED ON PLANS.
- PAINT ALL WALLS EPOXY PAINT PNT-1. ACCENT AS INDICATED ON PLANS.
- PAINT HEIGHT SOLID SURFACE (S.S.) WALL PANELS.
- PAINT CEILING PNT-1.
- PAINT ELEVATOR FRAMES AND DOOR PNT-4.
- REPLACE FLOORING IN STAIR WITH RUBBER (SEE FINISH LEGEND & ID600) FROM BASEMENT TO 6TH FLOOR.

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN



**HSR ASSOCIATES INC.**  
100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

Project Title: **WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION**

Project Location: **820 LA CROSSE STREET  
LA CROSSE, WI 54601**

Sheet Title: **6TH FLOOR FINISH PLAN**

HSR Project Number: **25040**

Project Date: **DECEMBER 2025**

Drawn By: **BE**

Key Plan:

**BID SET**

No.	Description	Date
A02	Addendum 02	01/07/26

Graphic Scale:  
**VARIES**

Last Update:  
**1/7/2026 12:03:51 PM**

**ID103**



MANUFACTURER / COLOR				GENERAL LOCATION	REMARKS	MANUFACTURER / COLOR				GENERAL LOCATION	REMARKS	MANUFACTURER / COLOR				GENERAL LOCATION	REMARKS
06 41 00 CUSTOM CABINETS						09 65 00 RESILIENT FLOORING/BASE						09 90 00 PAINTS AND COATINGS					
PLAM-1 (Plastic Laminate)		<u>Manufacturer:</u> Wilsonart <u>Color:</u> Studio Teak	Cabinets	Comparable Products by Prior Approval		VWB-1 (Vinyl Wall Base)		<u>Manufacturer:</u> Tarkett <u>Size:</u> 4in <u>Color:</u> Ganache	Field	Comparable Products by Prior Approval		PNT-1 (Paint)		<u>Manufacturer:</u> Sherwin Williams <u>Color:</u> Worldly Gray <u>Color Code:</u> 245-C1; SW7043	Field	Approved on	
PLAM-2		<u>Manufacturer:</u> Arborite <u>Color:</u> Roman Travertine	Countertops	Comparable Products by Prior Approval		VCE-1 (Vinyl Carpet Edge)		<u>Manufacturer:</u> Tarkett <u>Product:</u> T-Moulding <u>Color:</u> Brown <u>Size:</u> CD-XX (Confirm in Field)	Doorways from corridor to Unit rooms See ID Sheets		Comparable Products by Prior Approval		PNT-2		<u>Manufacturer:</u> Sherwin Williams <u>Color:</u> Smoky Blue <u>Color Code:</u> 233-C7; SW7604	Accent	Approved on
06 61 00 CAST POLYMER FABRICATIONS						09 68 50 CARPETING						10 26 00 WALL AND DOOR PROTECTION					
SS-1 (Solid Surface)		<u>Manufacturer:</u> Duraesin <u>Color:</u> Harbor Mist	Restroom Countertops & Window Sills	Comparable Products by Prior Approval		VCE-2 (Vinyl Carpet Edge)		<u>Manufacturer:</u> Tarkett <u>Product:</u> Transitions <u>Color:</u> Brown <u>Size:</u> CTA-XX-K (Confirm in Field)	Carpet to LVT in Unit Rooms See ID Sheets		Comparable Products by Prior Approval		PNT-3		<u>Manufacturer:</u> Sherwin williams <u>Color:</u> Brainstorm Bronze <u>Color Code:</u> 243-C6; SW7033	Accent	Approved on
SS-2		<u>Manufacturer:</u> Inpro <u>Product:</u> Prism Solid Surface Shower Walls <u>Color:</u> Milkyway P9056	Shower Surround Walls & Shower Bases & Large Corner Shower Caddy	See Plumbing sheets for more infoanrtion Provided by Plumbing Contractor		VCE-3 (Vinyl Carpet Edge)		<u>Manufacturer:</u> Tarkett <u>Product:</u> Slim Line Transitions <u>Color:</u> Brown <u>Size:</u> SLT-XX-B (Confirm in Field)	Stairwells to Corridors See ID Sheets		Comparable Products by Prior Approval		PNT-4		<u>Manufacturer:</u> Sherwin Williams <u>Color:</u> Rockweed <u>Color Code:</u> 252-C1; 2735	New and Existing Door and Window Frames	Approved on
09 30 00 TILE						09 68 50 CARPETING						12 24 00 WINDOW SHADES					
TLE-1 (Tile)		<u>Manufacturer:</u> ICG <u>Product:</u> Ceramic Tile <u>Style:</u> Stardust <u>Color:</u> Clay <u>Size:</u> 12in x 24in <u>Installation:</u> 1/3 Offset	Restrooms	Comparable Products by Prior Approval		CPT-1 (Carpet Tile)		<u>Manufacturer:</u> Shaw Contract <u>Style Name:</u> Grounded Spaces - Breathe <u>Color Name:</u> Tawny <u>Construction:</u> Multi-Level Pattern Loop <u>Size:</u> 24in x 24in <u>Backing:</u> Ecoworx <u>Installation:</u> Ashlar	Corridors		Comparable Products by Prior Approval		WP-1 (Wall Protection)		<u>Manufacturer:</u> Inpro <u>Product:</u> Palladium Patterns <u>Color:</u> Legacy - 2405 <u>Size:</u> 4' x 8'	See ID floor plan Install above wall base	Comparable Products by Approval
TT-1 (Tile Trim)		<u>Manufacturer:</u> Schluter <u>Product:</u> Reno-U <u>Finish:</u> ABGB	Restrooms	Comparable Products by Prior Approval		CPT-2		<u>Manufacturer:</u> Shaw Contract <u>Style Name:</u> Color Form <u>Color Name:</u> Imply <u>Construction:</u> Multi-Level Pattern Loop <u>Size:</u> 9in x 36in <u>Backing:</u> Ecowork <u>Installation:</u> Monolithic	Corridors		Comparable Products by Prior Approval		CG-1 (Corner Guards)		<u>Manufacturer:</u> Inpro <u>Product:</u> 130 High Impact <u>Color:</u> Sand Dune - 0278 <u>Size:</u> 4'	See ID floor plan Install above wall base	Comparable Products by Approval
09 65 00 RESILIENT FLOORING/BASE						CPT-3						CPT-4					
LVT-1 (Luxury Vinyl Tile)		<u>Manufacturer:</u> Shaw Contract <u>Collection:</u> Branching Out <u>Color:</u> Zion Oak <u>Size:</u> 6in x 48in <u>Thickness:</u> 5mm <u>Wear Layer:</u> 20Mil <u>Install:</u> Ashlar	Kitchens	Comparable Products by Prior Approval		CPT-3		<u>Manufacturer:</u> Bentley <u>Style Name:</u> Foreshaowing <u>Color Name:</u> Spectral <u>Construction:</u> Tufted Textured Loop <u>Size:</u> 18in x 36in <u>Backing:</u> LuxFelt Cushion <u>Installation:</u> Ashlar	Bedrooms		Comparable Products by Prior Approval		WS-1		<u>Type:</u> Manual Clutch Shade <u>Manufacturer:</u> Inpro <u>Product:</u> H100 SoloMount <u>Fabric:</u> S Screen Deco- 4% Openness <u>Fabric Color:</u> Peppercorn <u>Fascia</u> Yes - Bronze-50 <u>Bead Chain:</u> Metal - Antique Brass <u>Hem:</u> Heat-Sealed Hem Pocket	Living Room Windows See ID Sheets	Comparable Products by Prior Approval
RB-1 (Rubber Tiles)		<u>Manufacturer:</u> Tarkett <u>Collection:</u> Color Splash <u>Color:</u> Sandstorm <u>Size:</u> 24in x 24in <u>Thickness:</u> 1/8" <u>Install:</u> Monolithic <u>Texture:</u> Hammered	Elevator Cab And Stairwells	Comparable Products by Prior Approval		CPT-4		<u>Manufacturer:</u> Shaw Contract <u>Style Name:</u> Collective - In Tune <u>Color Name:</u> Combine <u>Construction:</u> Multi-level Pattern Loop <u>Size:</u> 9in x 36in <u>Backing:</u> EcoLogix GX496 <u>Installation:</u> Ashlar	Living Rooms		Comparable Products by Prior Approval		WS-2		<u>Type:</u> Manual Clutch Shade <u>Manufacturer:</u> Inpro <u>Product:</u> H100 Dual SoloMount <u>Fabric 1:</u> S Screen Deco- 4% Openness <u>Fabric Color:</u> Peppercorn <u>Fabric 2:</u> WT 784 <u>Fabric Color:</u> -80 Grey <u>Fascia</u> Yes - Bronze-50 <u>Bead Chain:</u> Metal - Antique Brass <u>Hem:</u> Heat-Sealed Hem Pocket	Bedroom Windows See ID Sheets	Comparable Products by Prior Approval
RB-2 (Rubber Stairs)		<u>Manufacturer:</u> Tarkett <u>Collection:</u> Color Splash <u>Color:</u> Sandstorm <u>Size:</u> Fit to Stairs <u>Thickness:</u> 1/8" <u>Texture:</u> Hammered	Stair Treads & Risers	Comparable Products by Prior Approval													



Consultant:

HSR Project Number:  
250440

Project Date:  
DECEMBER 2025

Drawn By:  
RGJ

Key Plan:


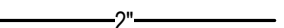

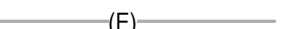























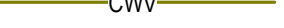







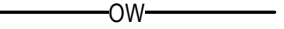











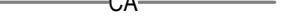


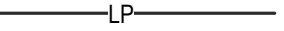









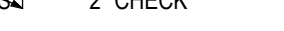






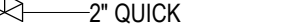

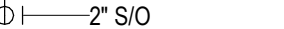
BID SET

No.	Description	Date
A02	Addendum 02	01/07/26

Graphic Scale:

Last Update:  
1/7/2026 11:56:20 AM

P001

General Plan Symbols			Plumbing Symbols	
	Plan Revision Number			Nominal Pipe Size
	Detail Number on Sheet Sheet Number Where Detail is Placed			Below Ground Piping Pipe Slope (When Applicable)
	Keynote Symbol			Existing Pipe To Remain
	Continuation Symbol			Pipe To Be Demolished
	Point Where New Connects To Existing			Domestic Cold-Water
	Room Name / Number			Non-Potable Water
	Area Being Demolished			Soft Cold-Water
	Area Not In Contract			Filtered Cold-Water
Abbreviations				Reverse Osmosis Water
Ø	ROUND	LVR		Domestic Hot-Water
ABV	ABOVE	LWT		Domestic Hot-Water 140°
AC	AIR CONDITIONING	MIA		Hot-Water Recirculation
AD	AREA DRAIN	MAX		Hot-Water Recirculation 140°
ADD	ADDENDUM	MBH		Sanitary Drain
AF	ABOVE FINISHED FLOOR	MCF		Sanitary Vent
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MECH		Sanitary Wet Vent
ALT	ALTERNATE	MFR		Combination DWV
AP	ACCESS PANEL	MIN		Condensate Drain
ARCH	ARCHITECT/ARCHITECTURAL	MISC		Indirect Drain
BFF	BELOW FINISHED FLOOR	MTR		Grease Waste
BLW	BELOW	MUA		Grease Vent
BTU	BRITISH THERMAL UNITS	NO		Oil Waste
BTUH	BRITISH THERMAL UNITS PER HOUR	NC		Oil Vent
CAP	CAPACITY	NIC		Pump Discharge
CB	CATCH BASIN	NO IN CONTRACT		Solar Water Return
CFM	CUBIC FEET PER MINUTE	NO NORMALLY OPEN		Solar Water Supply
CLG	CEILING	NTS		Storm Drain
CO	CLEAN OUT	O		Storm Overflow
CW	COLD WATER	OIA		Compressed Air
D	DEGREE	ORD		Natural Gas
DB	DRY BULB	PLBG		Liquid Propane
DIA	DIAMETER	PRESS		Pipe Rise / Drop
DW	DISTILLED WATER	PSI		4 FCO
EA	EACH	PSIG		Swing Check
EAT	ENTERING AIR TEMPERATURE	PWR		2 inch Check
ELEC	ELECTRICAL	R		2 inch BALANCE
EQUIP	EQUIPMENT	RA		2 inch CIRCUIT
EW	ELECTRIC WATER COOLER	RD		2 inch GATE
EW	ENTERING WATER TEMPERATURE	REC		2 inch QUICK
EIA	EXHAUST AIR	RED		2 inch S/O
EXIST	EXISTING	RH		2 inch STRAIN
F	DEGREES FAHRENHEIT	RLA		1 inch GAS-CTRL
FCO	FLOOR CLEAN OUT	RM		1 inch PLUG
FD	FLOOR DRAIN	RPM		1 inch GAS COOK
FDC	FIRE DEPARTMENT CONNECTION	SA		1 inch REG
FL	FLOOR	SAN		1 inch THERMOSTATIC
FO	FUEL OIL	SE		1 inch TRAP PRIMER
FOV	FUEL OIL VENT	SD		1 inch M-CTRL
FOR	FUEL OIL RETURN	SM		1 inch MIXING
FOS	FUEL OIL SUPPLY	SP		1 inch EMERGENCY MIXER
FS	FLOOR SINK	ST		1 inch PRESSURE REDUCING
FT	FOOT/FEET	TD		1 inch TRENCH DRAIN
FTR	FIN TUBE RADIATION	TE		1 inch TYPICAL
GAL	GALLON	UG		1 inch UNDERGROUND
GF	GAS-FIRED	VAC		1 inch VACUUM
GC	GENERAL CONTRACTOR	V		1 inch VENT
GPM	GALLONS PER MINUTE	VAV		1 inch VARIABLE AIR VOLUME
GW	GREASE WASTE	VENT		1 inch VENT THROUGH ROOF
HB	HOSE BIB	W		1 inch WASTE
HP	HORSE POWER	WB		1 inch WET BULB
HTG	HEATING	WCO		1 inch WALL CLEAN OUT
HTR	HEATER	WH		1 inch WALL HYDRANT
HW	HOT WATER			
HYD	HYDRANT			
ID	INDIRECT			
IN	INCH			
INV	INVERT			
LB	POUND			
LBHR	POUNDS PER HOUR			
LAT	LEAVING AIR TEMPERATURE			
LP	LOW PRESSURE			
LPG	LIQUEFIED PETROLEUM GAS			
Equipment Abbreviations				
AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK	
ACCU	AIR COOLING CONDENSING UNIT	EW	ELECTRIC WATER HEATER	
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT	
AS	AIR SEPARATOR	FP	FIRE PUMP	
B	BOILER	GI	GREASE INTERCEPTOR	
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR	
CT	COOLING TOWER	HWP	HEATING WATER PUMP	
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT	
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR	
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN	
DC	DUCT MOUNTED COIL	RTU	ROOF TOP UNIT	
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP	
EF	EXHAUST FAN	ST	STANDPIPE	
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER	
* NOTE *				
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.				

Type	Description	Manufacturer	Model	Qty	Product Type	Installation Type	ADA
LAV-1	Lavatory - ADA	By Others	DSCSRP3032MD	48	Single Bowl	Integral	Yes
SH-1	Shower Stall	InPro	ENSFR6030ROLL	22	Tub Replacement	Floor Set	No
SH-2	Shower Stall - ADA	InPro	ENSFR6030ROLL	22	ADA Roll In	Floor Set	Yes
S-1	Sink	Elkay	LR2522PP-3	22	Single Bowl	Counter Set	No
S-2	Sink - ADA	Elkay	LRADQ25226SP-3	22	Single Bowl	Counter Set	Yes
WC-1	Water Closet	Kohler	K-25077	24	Tank	Floor Set	Yes

Electric Water Heater Schedule																		
Identity	Manufacturer	Model	Count	Product Type	Installation Type	Domestic Piping Size	Temp. Rise	Recovery Capacity	Storage Capacity	MAMP	Electric Heat Rating	Load	Electrical Voltage	Minimum Efficiency	Product Weight	Operating Weight	Specification	
WH-1	Rheem	MR50245-C	24	Storage	Floor-set	3/4"	90 °F	21 GPH	50 gal	150 psi	4500.0 kW	450000.0 A	240 V	1	UEF: 0.91	100 lb	517 lb	Provide 24" Plastic Water Heater Pan, Oatey #34163 Or Equivalent

## GENERAL PLUMBING NOTES:

- BUILDING SYSTEMS MUST REMAIN OPERATIONAL, UNLESS OTHERWISE PERMITTED BY OWNER. COORDINATE AS REQUIRED.
- PATCH ALL HOLES THROUGH FLOORS WINCON-SHRINK GROUT.
- ALL WORK TO BE SCHEDULED AS DIRECTED BY OWNER. COORDINATE AS REQUIRED.
- VISIT THE BUILDING SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING THE WORK.
- VERIFY ALL MEASUREMENTS, PIPE SIZES, PIPE LOCATIONS, ELEVATIONS, ETC. AT SITE.
- REVIEW, COORDINATE, AND SCHEDULE INSTALLATION OF WORK WITH OTHER TRADES.
- INSTALL ALL WORK SUBSTANTIALLY AS SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED BY OWNER.
- INSTALL ALL WORK SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. DEVIATIONS FROM LOCATIONS OF PIPING INDICATED ON THE DRAWINGS MAY HAVE TO BE MADE AT NO ADDITIONAL COST TO THE OWNER IN ORDER TO CLEAR THE WORK OF THE OTHER TRADES. HOWEVER, ALL SUCH DEVIATIONS SHALL BE PREVIOUSLY APPROVED BY THE OWNER'S REPRESENTATIVE.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, STRUCTURAL DIMENSIONS AND LAYOUT.
- IT IS THE INTENT OF THESE DRAWINGS THAT EACH AFFECTED SYSTEM BE COMPLETE, WORKING, TESTED, AND OPERATIONAL.
- CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID OPENING. THE ENGINEER RESERVES THE RIGHT TO FINAL DECISION.
- INCLUDE ALL PLUMBING RELATED CUTTING, PATCHING AND/OR REMOVAL AND REPLACEMENT OF EXISTING WALLS, FLOORS & CEILINGS UNLESS OTHERWISE INDICATED.
- ALL WATER PIPING SHALL BE SO INSTALLED TO FACILITATE COMPLETE DRAINAGE.
- ALL FIXTURE WATER SUPPLY FLOW RATES SHALL CONFORM TO SPS 384.20(3).
- DOMESTIC WATER PIPE SIZING SHALL CONFORM TO SPS 382.40(1), FRICTION LOSS METHOD AND MAXIMUM FLOW VELOCITY OF 8 FPS.
- BACKFLOW PROTECTION SHALL BE PROVIDED TO ALL FIXTURES, CONFORMING TO SPS 382.41(3).
- EACH FIXTURE SHALL BE VALVED, CONFORMING TO SPS 382.40(4)(b).
- UNLESS NOTED OTHERWISE ALL WASTE AND DRAIN PIPING 3" AND LARGER SHALL BE INSTALLED AT A SLOPE OF 1/8" PER FOOT AND WASTE AND DRAIN PIPING 2" AND SMALLER AT 1/4" PER FOOT.
- CONNECT VENT PIPING ABOVE THE CENTERLINE OF HORIZONTAL DRAIN PIPING IN CONFORMANCE TO SPS 382.31(5)(b).
- FIXTURE VENTS SHALL CONNECT TO OTHER BRANCH VENTS A MINIMUM OF 38" ABOVE THE FLOOR, CONFORMING TO SPS 382.31(5)(b).
- THE INSTALLATION OF PVC DWV PIPING IN BUILDING SHALL CONFORM TO SPS 384.40(14), WHEN APPLICABLE.
- WASTE STACK BASE CONNECTIONS SHALL BE MADE USING LONG SWEEP FITTINGS.
- CLEANOUTS SHALL CONFORM TO SPS 382.35(6) TABLE 82.35.
- ALL WATER CLOSETS SHALL BE WATER CONSERVING TYPE, USING A MAXIMUM OF 1.6 GALLONS PER FLUSH CONFORMING TO SPS 384.20(3).
- ALL SINK FAUCETS SHALL USE A MAXIMUM OF 2.2 GPM, CONFORMING TO SPS 384.20(3).
- ALL LINE VALVES WHICH SERVE TWO OR MORE PLUMBING FIXTURES SHALL HAVE A FLOW OPENING NOT LESS THAN ONE NOMINAL PIPE SIZE SMALLER THAN THE NOMINAL SIZE OF THE PIPING CONNECTING TO THE VALVE, CONFORMING TO SPS 384.30(5)(b).
- CUTTING, NOTCHING OR BORING OF METAL STUD WALL SYSTEM IS NOT PERMITTED UNLESS APPROVED BY THE MANUFACTURER AND THE STRUCTURAL INTEGRITY HAS NOT BEEN REDUCED TO UNACCEPTABLE LEVELS.
- PLASTIC PIPE MAY PENETRATE REQUIRED FIRE-RESISTIVE RATED FLOORS, WALLS, CEILINGS AND FIRE RATED ASSEMBLIES PROTECTED WITH AN APPROVED FIRE-STOP SYSTEM HAVING AN F-RATING NOT LESS THAN THE HOURLY RATING OF THE ASSEMBLY BEING PENETRATED.
- CORE DRILL OPENINGS IN EXISTING FLOORWALL, AS REQUIRED, SIZE OF OPENINGS SHALL NOT EXCEED 1" LARGER THAN THE O.D. OF THE PIPING PENETRATING THE ASSEMBLY. COORDINATE WITH DRAFT/FIRE STOPPING REQUIREMENTS.
- IDENTIFY PIPING LOCATED ABOVE CEILINGS PRIOR TO CEILING GRID INSTALLATION.

## PHASING NOTE:

COORDINATE ZONING WORK AND SEQUENCING WITH CONSTRUCTION PHASING.

### Plumbing Sheet Index

P001	PLUMBING TITLE SHEET
P0104	4TH FLOOR DEMOLITION PLAN
P0105	5TH FLOOR DEMOLITION PLAN
P0106	6TH FLOOR DEMOLITION PLAN
P104	4TH FLOOR PLUMBING PLAN
P105	5TH FLOOR PLUMBING PLAN
P106	6TH FLOOR PLUMBING PLAN

## PLUMBING SPECIFICATIONS:

### SECTION: DOMESTIC WATER

- PIPING:**
- COPPER TUBE, TYPE L, HARD DRAWN, ASTM B88
  - CROSSLINKED POLYETHYLENE (PEX) TUBE, TYPE A SYSTEMS FOR PRESSURE APPLICATIONS, ASTM F896, ASTM F897
  - FITTINGS
    - CAST COPPER ALLOY, SOLDER JOINT, PRESSURE RATED, ANSI B16.18
    - WROUGHT COPPER, SOLDER JOINT, PRESSURE RATED, ANSI B16.22
    - COPPER, PRESS FIT JOINT, EPDM O-RING, ANSI B16.51, 0" - 250°F, MAXIMUM 200 PSIG, PROGRESS BY VIEGA, APOLLOPRESS BY APOLLO FLOW CONTROLS OR PRESSYSTEM BY NIBCO
    - PEX FITTINGS: EP, LEAD FREE BRASS, STAINLESS STEEL, ASTM F1960.
  - JOINTS:
    - LEAD FREE (<0.2%) SOLDER, ASTM B32, FLUX, ASTM B813
    - PRESS FIT JOINT, EPDM O-RING, MADE WITH ELECTRO-HYDRAULIC CRIMPING TOOL AND JAW CORRECT FOR PIPE SIZE
  - VALVES:
    - PRESS SYSTEM VALVES:
      - NIBCO, APOLLO
      - BALL VALVES - 2" AND SMALLER, NIBCO #PF-585-70 (MALE END) OR PF-585-70 (FEMALE END), FULL PORT TWO PIECE (1/2" - 2" SIZES), PTFE STEM PACKING, GLAND NUT, BRONZE BODY (LESS THAN 15% ZINC), CHROME PLATED BALL, REINFORCED TEFLON SEATS (RTFE), BLOW-OUT PROOF STEM, ADJUSTABLE PACKING GLAND, 600 PSI WOG, 250°F MAXIMUM OPERATING TEMPERATURE
      - PEX SYSTEM VALVES:
        - REHAU, UPONOR
        - VALVES - 2" AND SMALLER FULL PORT, TWO PIECE, BRASS BODY, ASTM F1960 COLD EXPANSION ENDS WITH PEX-A REINFORCING COLD EXPANSION RING, BRASS BALL AND STEM, STEM EXTENSION AS REQUIRED FOR INSULATION THICKNESS
      - BALL VALVES:
        - APOLLO, CRANE, HAMMOND, JOMAR, KITZ, MILWAUKEE, NIBCO, VIEGA, PROGRESS, WATTS
        - STANDARD PORT TWO-PIECE (1/2" - 4" SIZES), APOLLO #70LF-100 SERIES, THREADED ENDS OR APOLLO #70LF-200 SERIES, SOLDER ENDS, RTFE STEM PACKING, GLAND NUT, LEAD FREE BRONZE BODY (LESS THAN 15% ZINC), CHROMIUM PLATED LEAD FREE BRASS BALL, LEAD FREE BRASS STEM, REINFORCED TEFLON SEATS (RTFE), 600 PSI CWP, ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL NOT CONTAIN MORE THAN 0.25% LEAD CONTENT PER SDWA 1417(A)(1)(A) - 2011, NSF/ANSI STANDARD 372 LEAD FREE AND 380 PARTY CERTIFIED, MAXIMUM TEMPERATURE RATING SHALL BE 270°F
      - PROVIDE 1-1/4" STEM EXTENSIONS ON ALL HOT WATER PIPING INSULATED WITH MORE THAN 1/2" THICK INSULATION.
      - PROVIDE 1-1/4" STEM EXTENSIONS ON ALL INSULATED COLD WATER PIPING.
        - INCLUDE A NON-ROTATING SLEEVE WITH CAP AROUND THE STEM EXTENSIONS ON ALL INSULATED COLD WATER PIPING TO FACILITATE VAPOR BARRIER SEAL, SIMILAR TO:
          - MILWAUKEE "XH" STEM EXTENSION WITH EXTERNAL PLASTIC SHIELD, OR
          - APOLLO "THERM-SEAL" INSULATING TEE HANDLE, OR
          - NIBCO "NB-SEAL" INSULATED-HANDLE WITH EQUIVALENT BALL VALVES, OR
          - NIBCO "CS" EXTENDED LEVER HANDLE.

## PLUMBING SPECIFICATIONS:

### FLUSHING:

- BUILDING DOMESTIC COLD WATER AND HOT WATER PIPING SHALL BE CLEANED AND FLUSHED SO AS TO BE FREE OF ALL THREAD CUTTING OIL, THREAD CHIPS, SOLDER RESIDUE, SHAVINGS AND OTHER FOREIGN MATTER AFTER CLEANING AND FLUSHING. THE PIPING SYSTEM SHALL BE DISINFECTED.
  - REMOVE SCREENS FROM ALL IN-LINE STRAINERS EXCEPT THOSE AT PUMP STATION.
  - OPEN ALL CONTROL VALVE TO FULLY OPEN POSITION.
  - FLUSH TO OBTAIN FLOW OF CLEAN WATER.
- TESTING - POTABLE WATER**
- AFTER PORTIONS OF THE POTABLE WATER SYSTEMS WORK ARE COMPLETED, THE WORK SHALL BE HYDROSTATICALLY TESTED IN THE PRESENT OF THE ARCHITECT'S AND OWNER'S REPRESENTATIVES AND OTHER AUTHORITIES OF JURISDICTION. FIVE DAYS NOTICE OF THE TESTS SHALL BE GIVEN TO THE ARCHITECT AND OWNER. FURNISH ALL PUMPS, GAGES, INSTRUMENTS, TEST EQUIPMENT AND PERSONNEL REQUIRED FOR THESE TESTS AND MAKE ALL PROVISIONS FOR REMOVAL OF TEST EQUIPMENT.
  - VENT ALL AIR FROM THE SYSTEM FOR HYDROSTATIC TESTING.
  - IN THE CASE OF THE HYDROSTATIC TEST WITH WATER, THE TEST PRESSURE SHALL BE 100 PSIG OR 1-1/2 X MAXIMUM WORKING PRESSURE, WHICHEVER IS THE GREATER. TEST PRESSURE SHALL BE HELD WITH NO NOTICEABLE LOSS IN PRESSURE WHILE ALL JOINTS ARE VISUALLY INSPECTED FOR LEAKS. WATER TEMPERATURE SHALL NOT EXCEED 100 DEGREE.
- DISINFECTION:**
- DISINFECT THE DOMESTIC WATER SYSTEM TO THE OWNER'S SATISFACTION, WITH BLEACH OR CHLORINE GAS. AFTER DISINFECTING, FLUSH THE SYSTEM AS HEREIN BEFORE DESCRIBED UNDER FLUSHING.
  - PROVIDE PUMPS AND VALVES AS REQUIRED TO INTRODUCE DISINFECTANT AND WATER.
  - FILL THE SYSTEM UNIFORMLY WITH A DISINFECTION SOLUTION OF 100 PPM AVAILABLE CHLORINE. THE DISINFECTANT SHALL BE RETAINED ON LESS THAN 24 HOURS. AS AN ALTERNATE, A SOLUTION OF 300 PPM HELD FOR 3 HOURS IS ALSO ACCEPTABLE. AFTER THE HOLDING PERIOD, A TEST FOR RESIDUAL CHLORINE SHALL BE MADE. IF NONE IS FOUND, THE SYSTEM SHALL BE DRAINED AND THE DISINFECTION PROCEDURE REPEATED. WHEN A POSITIVE RESIDUAL CHLORINE TEST IS ACCOMPLISHED, THE SYSTEM SHALL BE FLUSHED WITH POTABLE WATER AND PUT INTO OPERATION.

### SECTION: PIPE INSULATION

- INSULATION SHALL BE PROVIDED ON ALL DOMESTIC WATER AND RAINWATER PIPING AS FOLLOWS:
    - FIBERGLASS PIPE INSULATION WITH MINIMUM NOMINAL DENSITY OF 3 LBS. PER CU. FT. AND THERMAL CONDUCTIVITY OF NOT MORE THAN 0.23 AT 75 DEGREES F MEAN TEMPERATURE, SUITABLE FOR TEMPERATURES TO 450 DEGREES F WITH VAPOR BARRIER JACKET.
    - INSTALL AS RECOMMENDED TO MANUFACTURER RECOMMENDATIONS.
    - HANGERS ON ALL WATER PIPING SHALL BE OVERSIZED FOR PIPE INSULATION AND SHALL NOT BE INSULATED.
    - EXISTING PIPING INSULATION DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH ORIGINAL CONDITION.
- | SERVICE    | INSULATION TYPE  | PIPE SIZE      | INSULATION THICKNESS |
|------------|------------------|----------------|----------------------|
| HOT WATER  | RIGID FIBERGLASS | 2" AND SMALLER | 1"                   |
| COLD WATER | RIGID FIBERGLASS | 2" AND SMALLER | 1"                   |
| RAINWATER  | RIGID FIBERGLASS | 6" AND SMALLER | 1"                   |

## PLUMBING DWV SPECIFICATIONS:

### SECTION: DRAIN, WASTE, VENT SYSTEMS

#### PIPING (NON-PLENUM APPLICATIONS):

- POLY(VINYL CHLORIDE) (PVC)
- PIPE: SCHEDULE 40, CLASS 12454 (PVC 1120), ASTM D1785
- FITTINGS: DRAIN, WASTE AND VENT (DWV) PATTERN FITTINGS, ASTM D2685; SOCKET FITTING PATTERNS, ASTM D3311.
- JOINTS: PRIMER, LOW VOC, ASTM F656; SOLVENT CEMENT, LOW VOC, ASTM D2264

#### PIPING (PLENUM APPLICATIONS):



#	KEYNOTES - DEMO
Keynote Number	Keynote Description
#	ALL REMOVED ITEMS THAT THE OWNER WANTS SHALL BE REMOVED AND TURNED OVER TO THE OWNER AT DESIGNATED STORAGE SPACE ON SITE. ALL REMAINING ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

ARCHITECTURE  
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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

Project Title: **WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION**

Project Location: **820 LA CROSSE STREET  
LA CROSSE, WI 54601**

Sheet Title: **6TH FLOOR DEMOLITION PLAN**

HSR Project Number: **25040**

Project Date: **DECEMBER 2025**

Drawn By: **JB**

Key Plan:

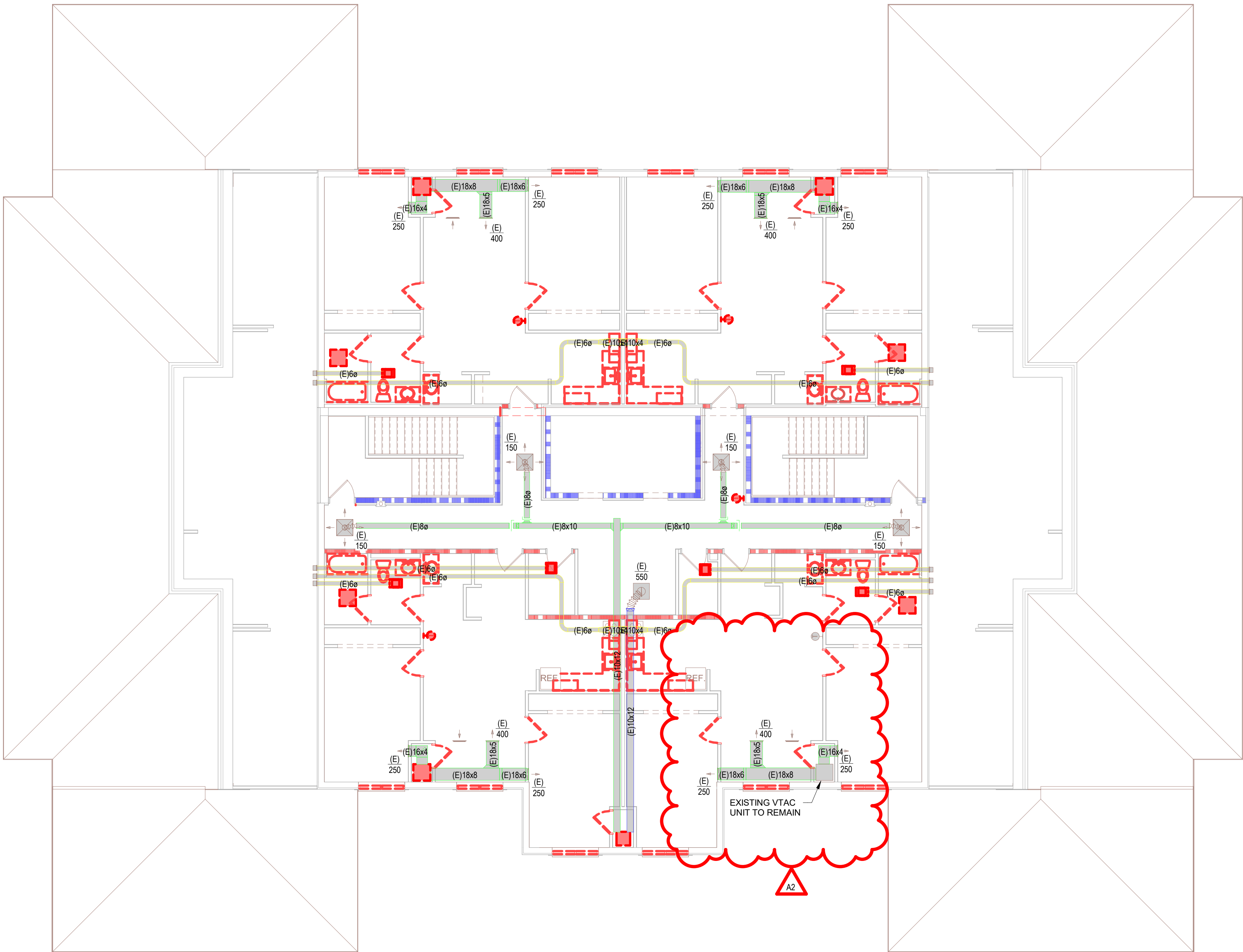
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Revisions:		
No.	Description	Date
A2	ADDENDUM #02	01/07/2026

Graphic Scale: **VARIES**

Last Update: **1/5/2026 7:56:00 AM**

**M096**







KEYNOTES - REMODEL	
Keynote Number	Keynote Description
#	COORDINATE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH CEILING GRID, SPRINKLER HEADS, RECESSED LIGHTING AND ALL OTHER CEILING MOUNTED EQUIPMENT.
1	NEW VTAC UNIT SHALL REUSE EXISTING WALL SLEEVE & LOUVER. PROVIDE MODIFICATIONS AS NECESSARY AND MAKE NEW DUCTWORK AND CONDENSATE PIPE CONNECTIONS TO EXISTING.

ARCHITECTURE  
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INTERIOR DESIGN



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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

Project Title:  
**WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION**

Project Location:  
820 LA CROSSE STREET  
LA CROSSE, WI 54601

Sheet Title:  
**5TH FLOOR PLAN**

HSR Project Number:	25040
Project Date:	DECEMBER 2025
Drawn By:	JB

Key Plan:

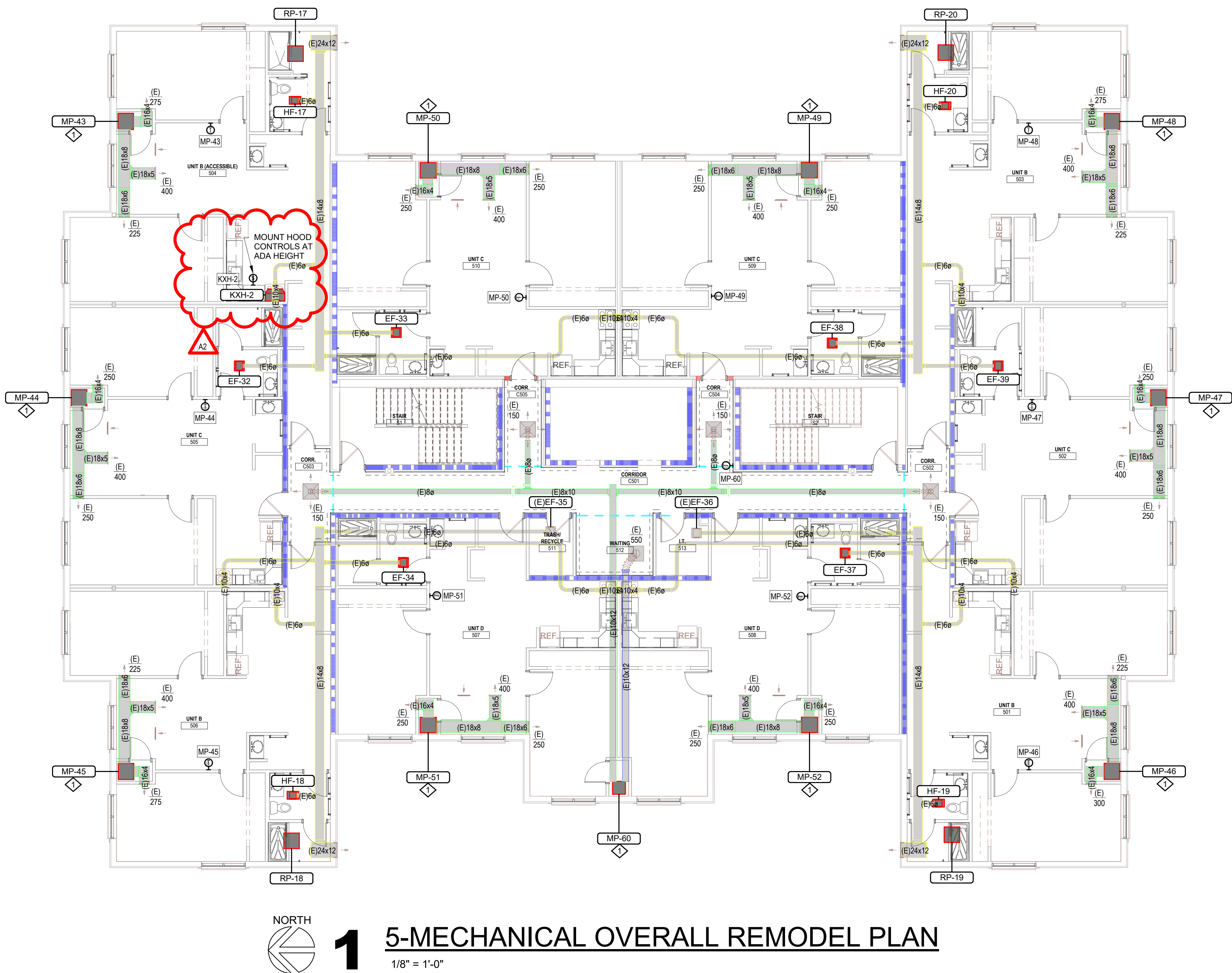
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No.	Description	Date
A2	ADDENDUM #02	01/07/2026

Graphic Scale:  
VARIES

Last Update:  
1/6/2026 12:14:42 PM

M105



KEYNOTES - REMODEL		
Keynote Number	Keynote Description	
#	COORDINATE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH CEILING GRID, SPRINKLER HEADS, RECESSED LIGHTING AND ALL OTHER CEILING MOUNTED EQUIPMENT.	
1	NEW VTAC UNIT SHALL REUSE EXISTING WALL SLEEVE & LOUVER. PROVIDE MODIFICATIONS AS NECESSARY AND MAKE NEW DUCTWORK AND CONDENSATE PIPE CONNECTIONS TO EXISTING.	



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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

Project Title: WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL PHASE 1 RENOVATION

Project Location: 820 LA CROSSE STREET  
LA CROSSE, WI 54601  
Sheet Title: 6TH FLOOR PLAN

HSR Project Number: 25040

Project Date: DECEMBER 2025

Drawn By: JB

Key Plan:

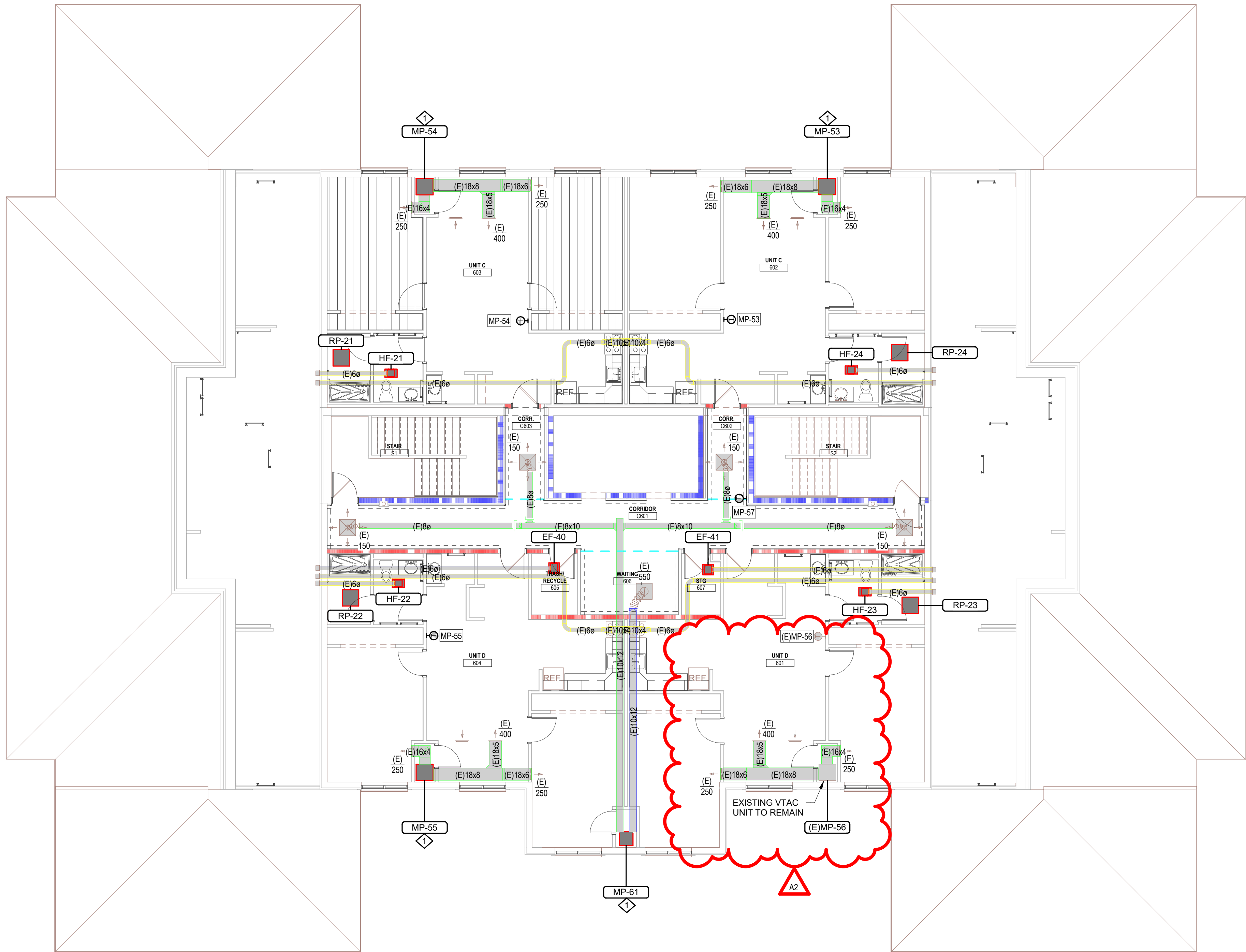
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Revisions:		
No.	Description	Date
A2	ADDENDUM #02	01/07/2026

Graphic Scale: VARIES

Last Update: 1/5/2026 7:56:01 AM

M106



1

## 6-MECHANICAL OVERALL REMODEL PLAN

1/8" = 1'-0"



A2

Grand total: 26

A2

Grand total: 14Grand total: 12Grand total: 12Grand total: 2





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100 MILWAUKEE STREET  
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PHONE: 608.784.1830  
FAX: 608.782.5844  
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ELECTRICAL SYMBOLS & SHEET INDEX

Project Title:  
Project Location:  
Sheet Title:

HSR Project Number:  
25040-2022

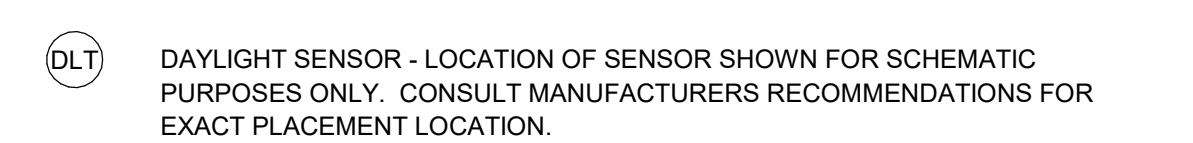
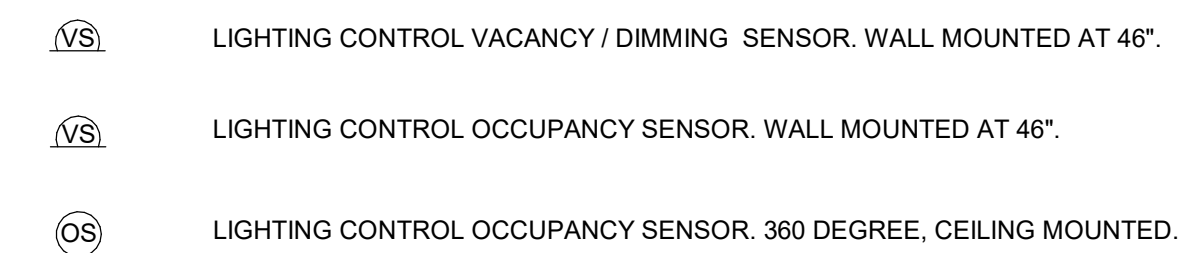
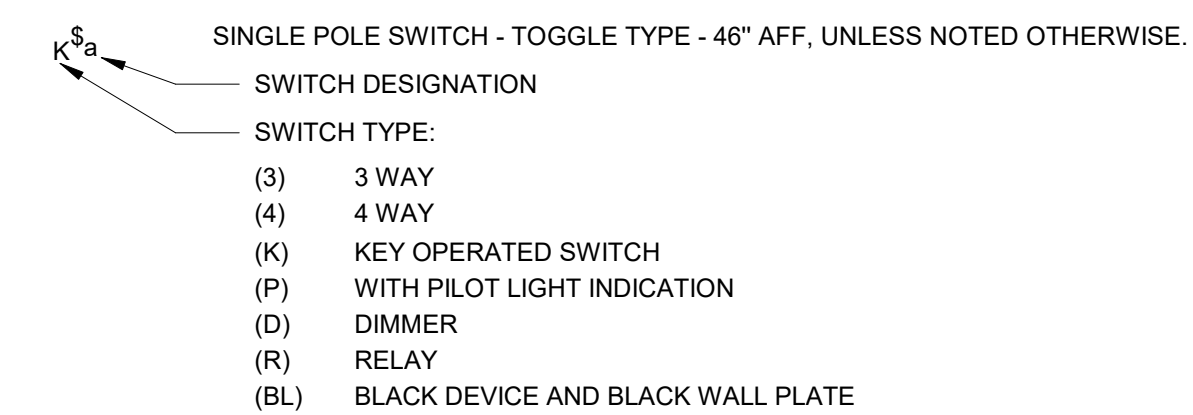
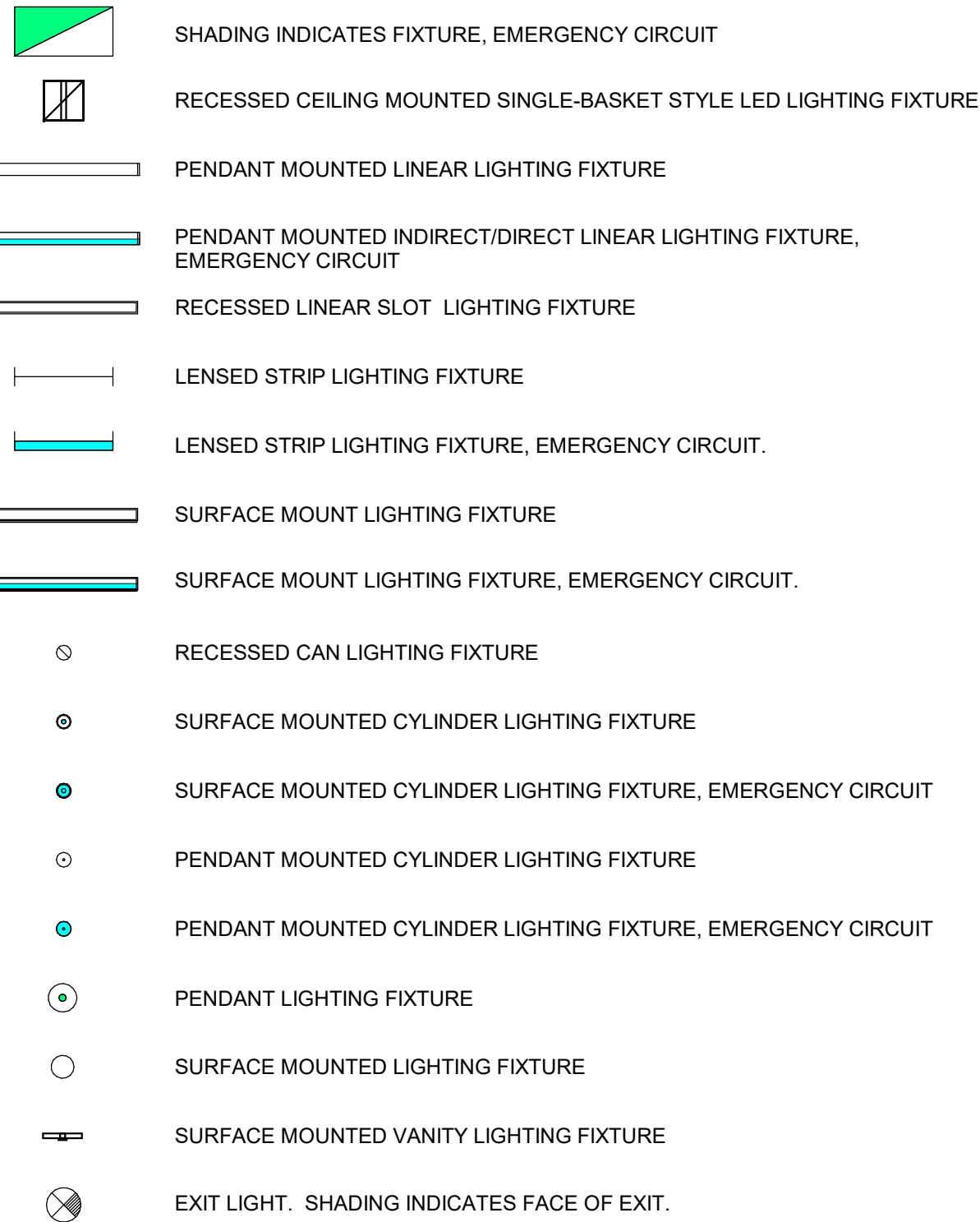
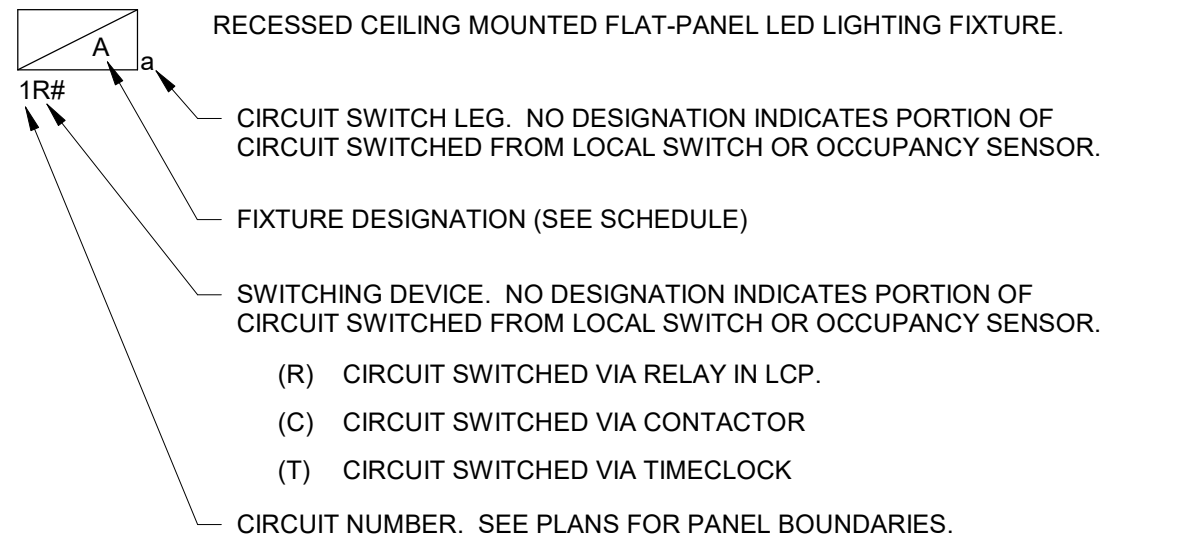
Project Date:  
DECEMBER 16, 2025

Drawn By:  
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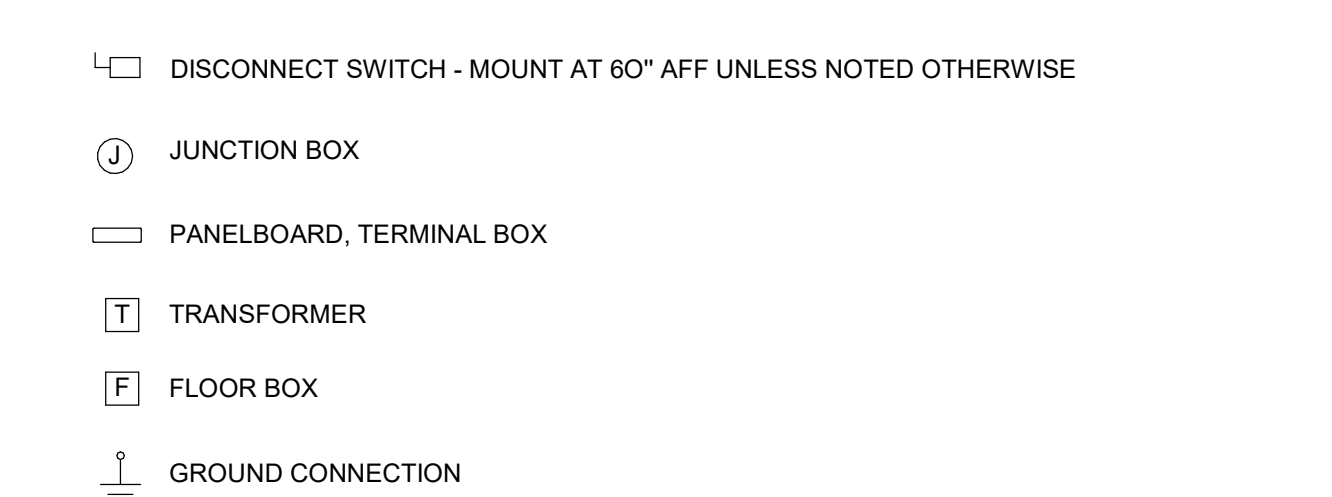
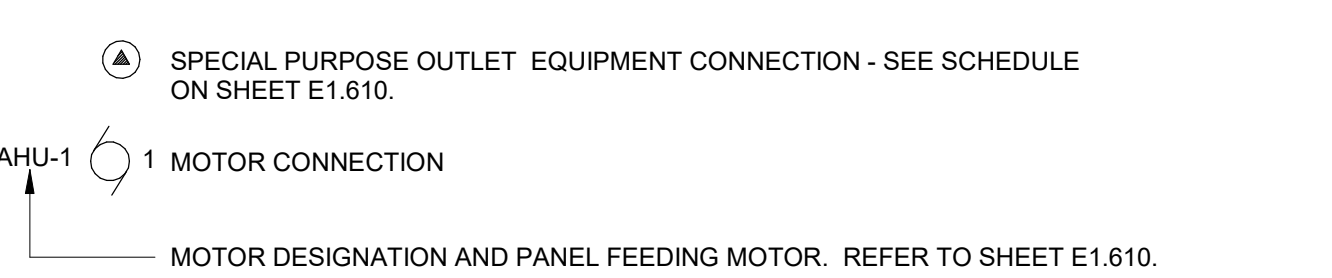
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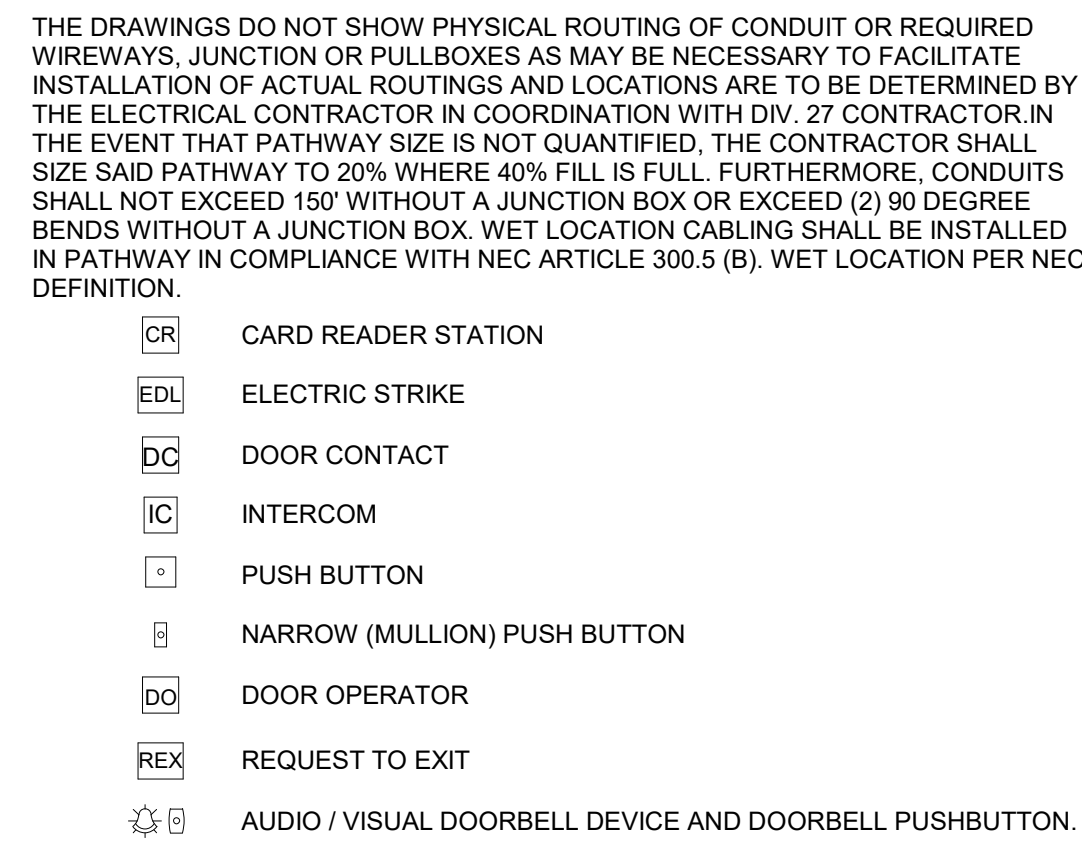
### LIGHTING:



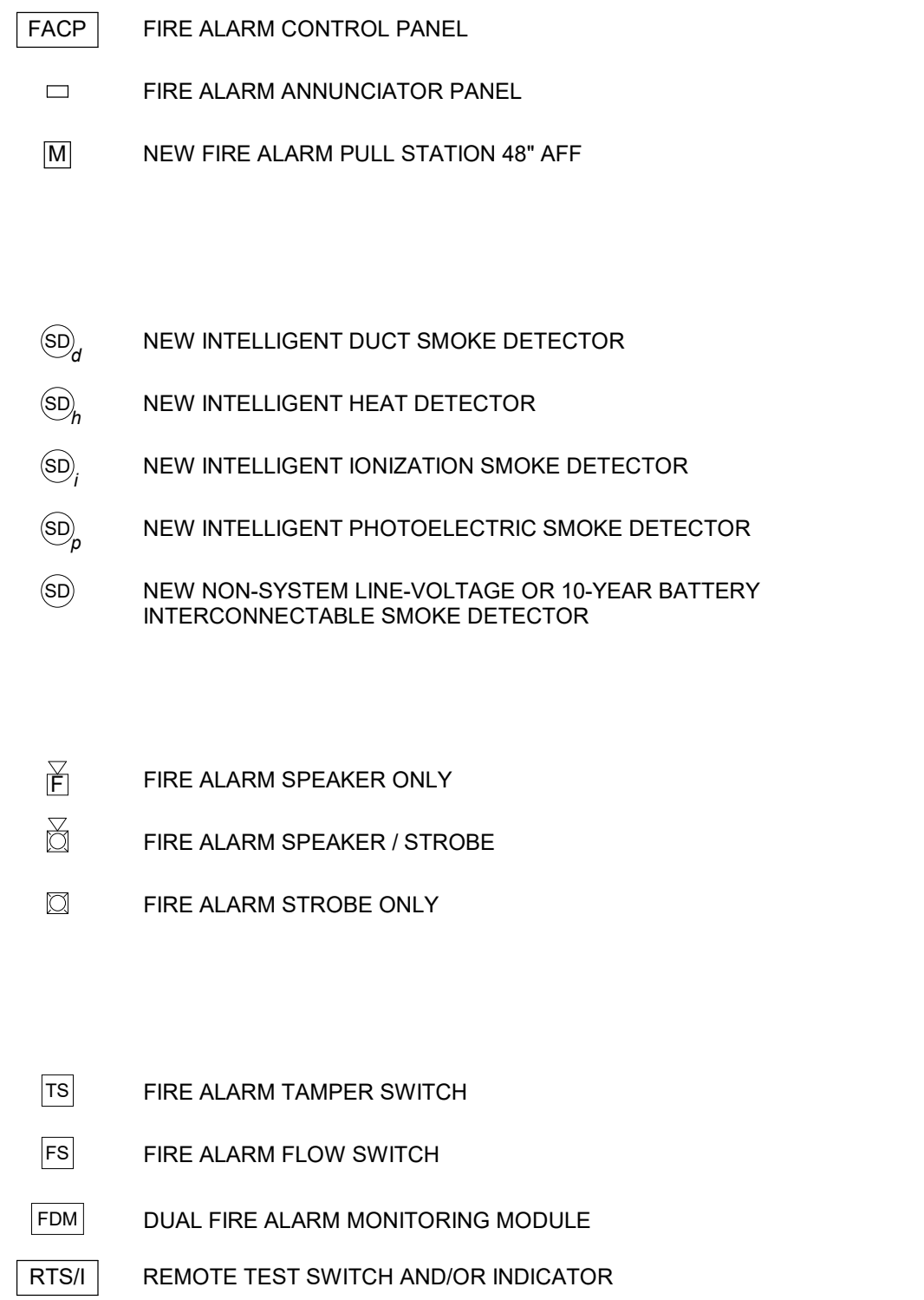
### POWER:



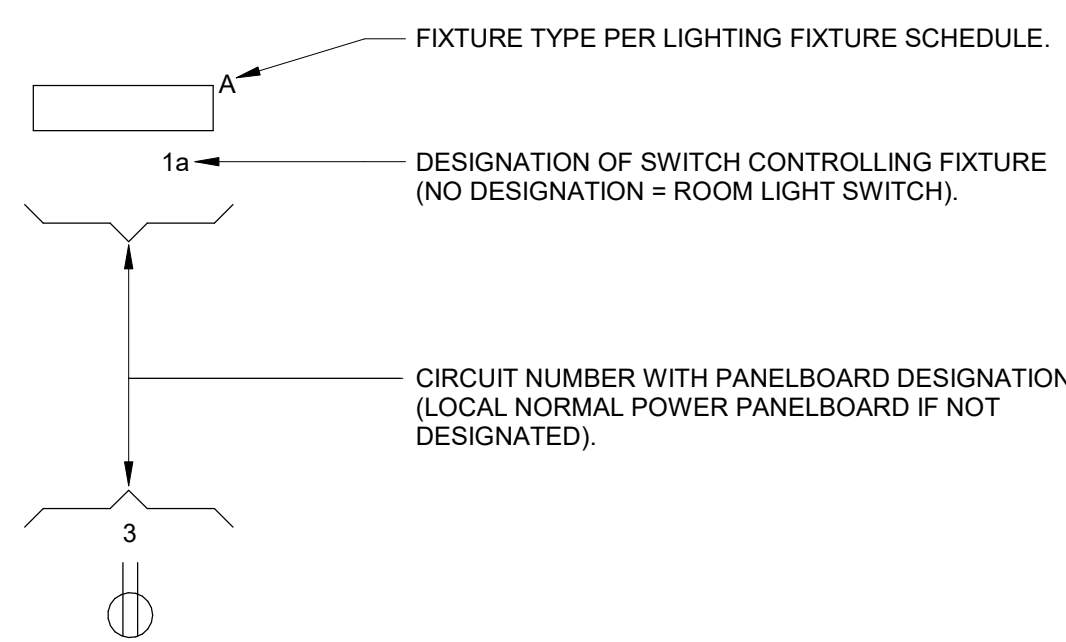
### SECURITY:



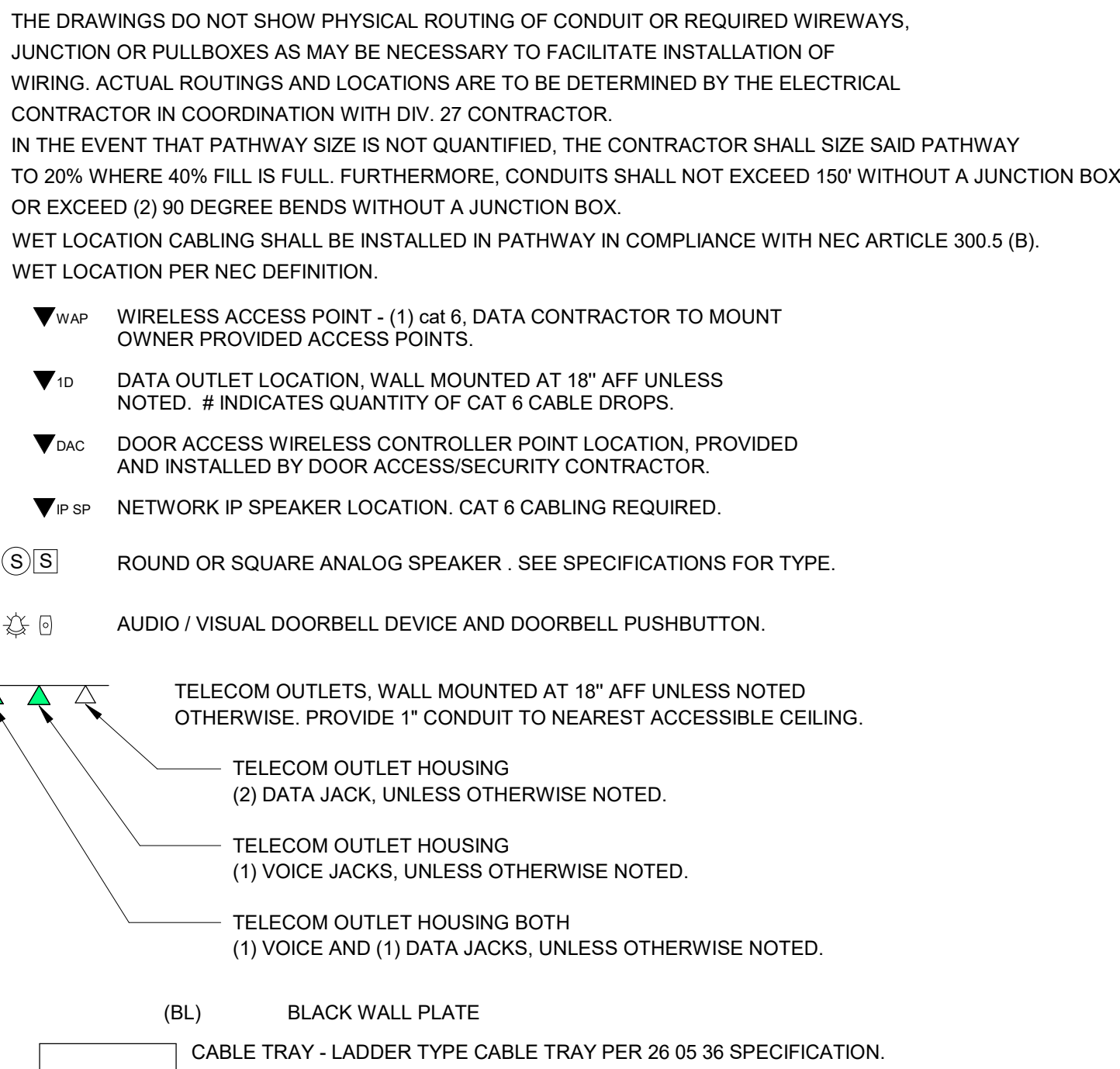
### FIRE ALARM:



### CIRCUITING LEGEND:



### SYSTEMS:



SHEET SCHEDULE PHASE 1	
E001	ELECTRICAL SYMBOLS, NOTES, ABBREVIATIONS
E002	ELECTRICAL NOTES AND SCHEDULES
E104	4TH FLOOR LIGHTING PLAN
E105	5TH FLOOR LIGHTING PLAN
E106	6TH FLOOR LIGHTING PLAN
E204	4TH FLOOR POWER PLAN
E205	5TH FLOOR POWER PLAN
E206	6TH FLOOR POWER PLAN
E301	ALL FLOORS DOOR ACCESS PLAN
E500	ELECTRICAL DETAILS
E501	ENLARGED LIGHTING, UNIT TYPES "A" & "B"
E502	ENLARGED LIGHTING, UNIT TYPEPS "C" & "D"
FA100	LOWER LEVEL FIRE ALARM PLAN
FA101	1ST FLOOR FIRE ALARM
FA104	4TH FLOOR FIRE ALARM
FA105	5TH FLOOR FIRE ALARM
FA106	6TH FLOOR FIRE ALARM

SHEET SCHEDULE -- DEMO -- PHASE1	
ED104	4TH FLOOR LIGHTING - DEMO PLAN
ED105	5TH FLOOR LIGHTING - DEMO PLAN
ED106	6TH FLOOR LIGHTING - DEMO PLAN
ED204	4TH FLOOR POWER - DEMO PLAN
ED205	5TH FLOOR POWER - DEMO PLAN
ED206	6TH FLOOR POWER - DEMO PLAN
FD100	LOWER LEVEL LIGHTING - DEMO PLAN
FD101	1ST FLOOR LIGHTING - DEMO PLAN
FD104	4TH FLOOR FIRE ALARM - DEMO PLAN
FD105	5TH FLOOR FIRE ALARM - DEMO PLAN
FD106	6TH FLOOR FIRE ALARM - DEMO PLAN

SHEET SCHEDULE -- DEMO -- PHASE 2	
ED100	LOWER LEVEL LIGHTING - DEMO PLAN
ED101	1ST FLOOR LIGHTING - DEMO PLAN
ED102	2ND FLOOR LIGHTING - DEMO PLAN
ED103	3RD FLOOR LIGHTING - DEMO PLAN
FD100	LOWER LEVEL FIRE ALARM- DEMO PLAN
FD101	1ST FLOOR FIRE ALARM - DEMO PLAN
FD102	2ND FLOOR FIRE ALARM - DEMO PLAN
FD103	4TH FLOOR FIRE ALARM - DEMO PLAN

SHEET SCHEDULE PHASE 2	
E001	ELECTRICAL SYMBOLS, NOTES, ABBREVIATIONS
E002	ELECTRICAL NOTES AND SCHEDULES
E100	LOWER LEVEL - LIGHTING PLAN
E101	1ST FLOOR LIGHTING PLAN
E102	2ND FLOOR LIGHTING PLAN
E103	3RD FLOOR LIGHTING PLAN
E500	ELECTRICAL DETAILS
E501	ENLARGED LIGHTING, UNIT TYPES "A" & "B"
E502	ENLARGED LIGHTING, UNIT TYPEPS "C" & "D"
FA100	LOWER LEVEL FIRE ALARM PLAN
FA101	1ST FLOOR FIRE ALARM
FA102	2NDFLOOR FIRE ALARM
FA103	3RD FLOOR FIRE ALARM

E001





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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

WESTERN TECHNICAL COLLEGE  
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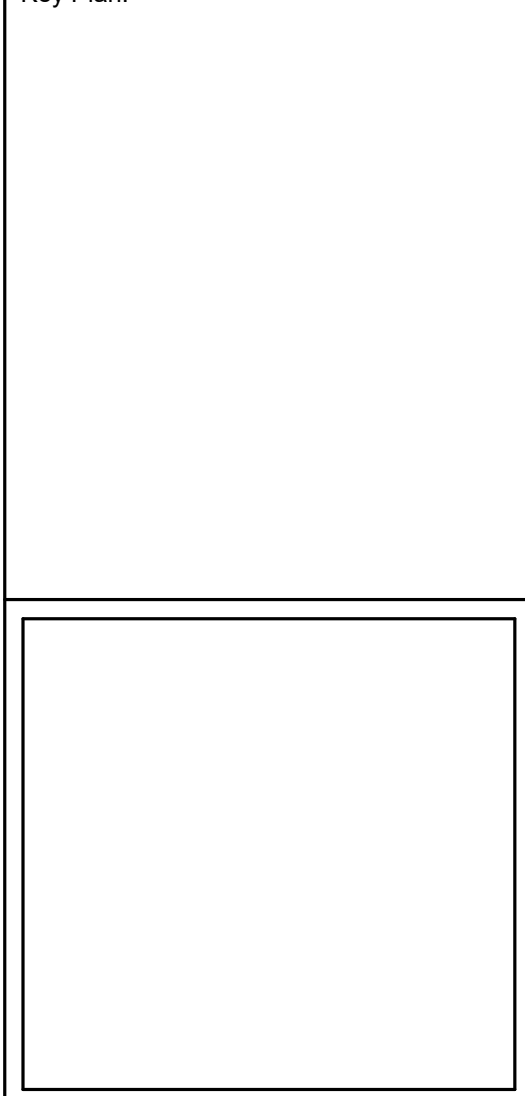
Project Title:  
Project Location:  
Sheet Title:

HSR Project Number:  
25040-2022

Project Date:  
DECEMBER 16, 2025

Drawn By:  
HSR - jmh

Key Plan:



No.	Description	Date
A02	ADDENDUM #2	01/07/2026

Graphic Scale:  
VARIES

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1/8/2026 11:22:29 AM

E002

KEYNOTES - LIGHTING	
1	PHASE 2, FUTURE WORK.
2	KITCHEN SINK LIGHTING FIXTURE TO BE REMOVED AND DISCARDED. REMOVE EXISTING FIXTURE WALL JUNCTION BOX, CONDUIT, AND WIRING BACK TO NEAREST ABOVE-CEILING JUNCTION BOX, DO NOT ABANDON IN PLACE. MODIFY/EXTEND/FISH CIRCUIT USING MC CABLE TO NEW UNDERCABINET LIGHT. COORDINATE WITH GENERAL CONTRACTOR FOR CASEWORK LAYOUT.
3	BATHROOM LIGHT AND FAN SWITCHES TO BE REPLACED WITH OCCUPANCY SENSORS, LEVITON MODEL #0DS10 OR EQUIVALENT. RE-USE EXISTING BOXES AND CONDUCTORS AS POSSIBLE. ELECTRICAL CONTRACTOR CAN CONNECT FAN AND LIGHT TO ONE OCCUPANCY SENSOR IF EXISTING WIRING ALLOWS. INSTALL BLANK COVER PLATES ON ANY UNUSED SWITCH BOXES.
4	ALL BATHROOMS AND SHOWERS WITH EXTERIOR WALLS ARE TO HAVE NEW DIGITAL PUSHBUTTON TIMER SWITCHES, LEVITON MODEL #DT230 OR EQUIVALENT, INSTALLED FOR THE FAN HEATERS AND THE RADIANT HEATING CEILING PANELS.
5	STAIRWELL LIGHTING TO INCLUDE FACTORY BUILT-IN MOTION SENSOR FOR DIMMING CONTROL. PROGRAM FIXTURES FOR DIMMING TO 25% WITH NO MOVEMENT, 100% FULL BRIGHTNESS UPON SENSING MOVEMENT.
6	INSTALL 2' LED STRIP LIGHT INTO MECHANICAL CLOSET. REUSE EXISTING CONDUIT AND WIRING, MODIFYING IT AS NECESSARY. FIXTURES MAY VARY. INSTALL INTO THE BEST LOCATION TO ACCOMMODATE FOR LIGHTING RESULTS AND INSTALLATION ISSUES.
A01	ALL LIGHTING * EXCEPT * KITCHEN SINK DEMO AND UNDERCABINET INSTALL HAS BEEN REMOVED FROM THIS PROJECT.

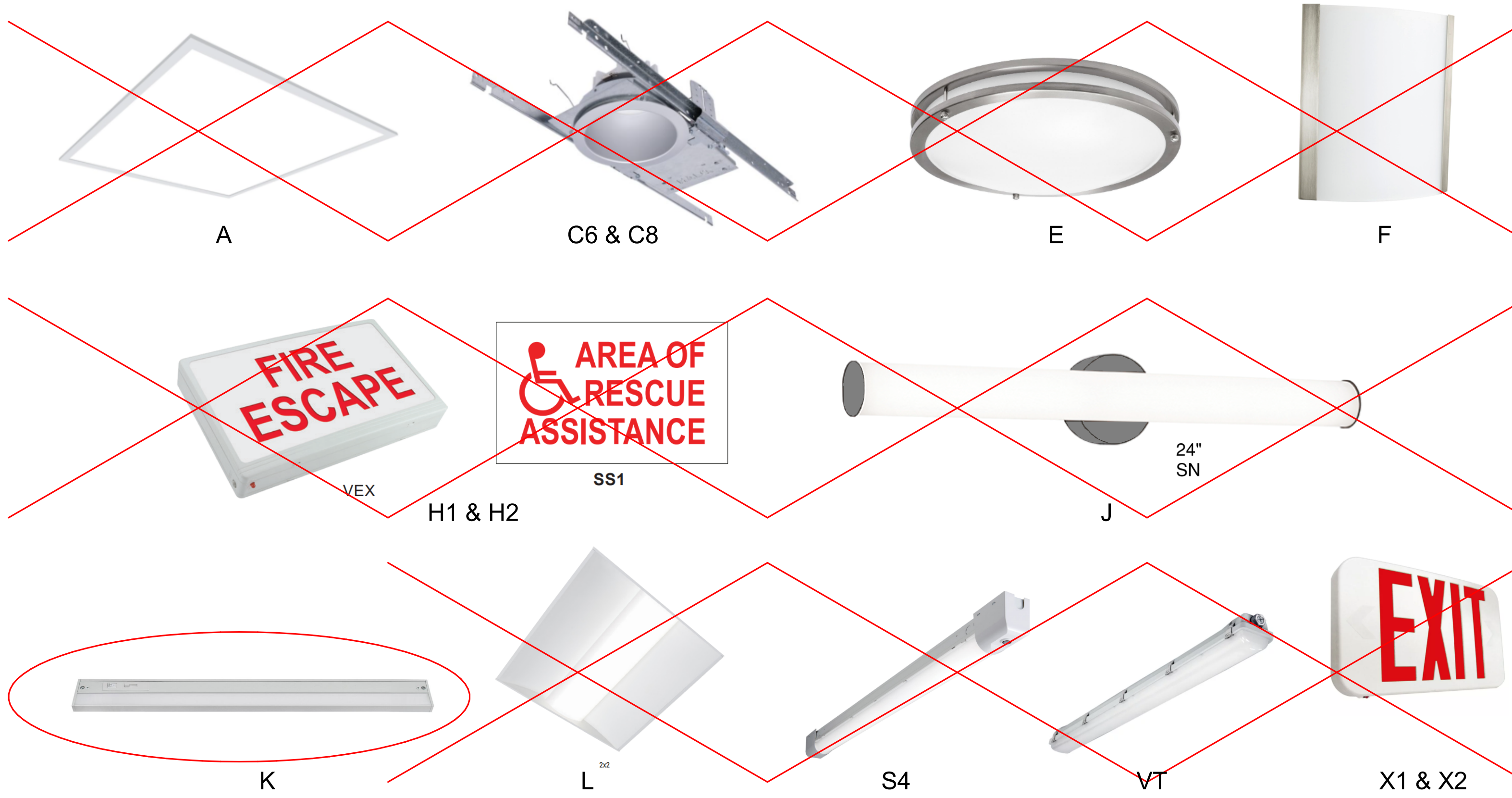
KEYNOTES - FIRE ALARM	
1	BEDROOM NOTIFICATION DEVICE TO BE A SPEAKER WITH STROBE FOR ADA & HEARING IMPAIRED COMPLIANCE.
2	ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE EXISTING FIRE ALARM CONTROL PANELS AND RELATED FIRE ALARM EXPANSION PANELS (EXPANDERS, AMPLIFIER PANELS, ETC.) PROVIDE AND INSTALL NEW MAIN FIRE ALARM CONTROL PANEL AT MAIN ENTRANCE AND NEW FIRE ALARM ANNUNCIATOR PANEL IN SECURITY OFFICE, AND RELATED EXPANSION PANELS AS SPECIFIED BY FIRE ALARM VENDOR, CUSTOM ALARM. COORDINATE THOROUGHLY WITH CUSTOM ALARM, WESTERN TECHNICAL COLLEGE FACILITIES STAFF, AND GENERAL CONTRACTOR FOR TIMING SEQUENCE OF THIS WORK.
3	ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW FIRE PUMP CONTROLLER. COORDINATE THOROUGHLY WITH CUSTOM ALARM, WESTERN TECHNICAL COLLEGE FACILITIES STAFF, AND GENERAL CONTRACTOR FOR TIMING SEQUENCE OF THIS WORK.
4	COORDINATE WITH WESTERN TECHNICAL COLLEGE TO INSTALL (NEW MODEL FOR 2026) WTC-PROVIDED AND CONTRACTOR INSTALLED IGUARD STOVE/RANGE SAFETY SHUTOFF DEVICE CONTROL PANEL TO BOTTOM OF ADJACENT UPPER CABINET AT FRONT EDGE. INSTALL "PLUG & PLAY" INLINE RANGE PLUG & OUTLET SWITCHING DEVICE BEHIND STOVE AND CONNECT AND SECURE THE PROVIDED CAT 5 CABLE FROM CONTROLLER TO INLINE OUTLET SWITCHING DEVICE. ** DO NOT DEMO THE EXISTING BATTERY-POWERED KITCHEN SMOKE DETECTOR OR THE FIREAVERT POWER-INTERRUPTING DEVICE, UNTIL WHICH TIME THE NEW IGUARD IS AVAILABLE AND INSTALLED. AFTER IGUARD IS INSTALLED, PROCEED WITH DEMO OF BATTERY-POWERED KITCHEN SMOKE DETECTOR, AND REPLACE CEILING TILE. **
5	ELECTRICAL CONTRACTOR TO DISCONNECT, REMOVE AND TURN OVER TO WTC FACILITIES DEPARTMENT ALL EXISTING NON-SYSTEM, BATTERY POWERED SMOKE DETECTORS LOCATED IN THE KITCHEN NEAR THE RANGE.

GENERAL NOTES - LIGHTING	
1	ALL SWITCHES TO REMAIN UNLESS OTHERWISE NOTED ON PLAN.
2	ALL FIXTURES ARE TO BE REPLACED 1-FOR-1 INTO SAME LOCATIONS UNLESS OTHERWISE NOTED ON PLAN.

GENERAL NOTES - FIRE ALARM	
1	LOWER-LEVEL FIRE ALARM WORK IN PHASE 1 CONSISTS ONLY OF REPLACING THE FIRE PUMP CONTROL PANEL. COORDINATE WITH FIRELINE SPRINKLER AND STARFIRE INC. FOR REQUIREMENTS FOR REPLACING FIRE PUMP CONTROLLER.
2	1ST FLOOR FIRE ALARM WORK IN PHASE 1 CONSISTS ONLY OF REPLACING FIRE ALARM CONTROL PANEL AT THE MAIN ENTRANCE LOBBY #110, AND THE FIRE ALARM ANNUNCIATOR PANEL LOCATED IN THE SECURITY OFFICE, RM #100

LIGHTING FIXTURE SCHEDULE					
Type Mark	Description	Manufacturer	Model	Initial Color Temperature	Type Comments
A	2x4 LED Flat Panel	Cooper Lighting - Metalux	24CGTS-L3C3	3500 K	
B	2x2 LED Flat Panel	Cooper Lighting - Metalux	22CGTS-L3C3	3500 K	
C6	6" Recessed LED Can Light	Cooper Lighting - Halo	HG6	3500 K	
C8	8" Recessed LED Can Light	Cooper Lighting - Halo	HG8	3500 K	
E	14" Round Surface mount LED Fixture	AFX	GAF14L5AJUDSN "Carlisle"	3500 K	
F	Wall Sconce	AFX	IDS0910LAJUDSN "Ideal"	3500 K	
H1	Single-Face Area of Rescue Assistance Fixture with battery backup	Barron Lighting - Extronics	VEX-U-WB-WH-SS1	3500 K	
H2	Dual-Face Area of Rescue Assistance Fixture with battery backup	Barron Lighting - Extronics	VEX-U-WB-WH-SS1	3500 K	
J	24" LED Vanity Light	AFX	LIAV2404LAJUDSN "Leia"	3500 K	
K	22" LED Undercabinet light fixture	AFX	HEYU22 "Haley"	3500 K	
L	2x2 LED Single Basket Fixture	Metalux	22CZSCT3-UNV "Cruze"	3500 K	
M	2x4 LED Single Basket Fixture	Metalux	24CZSCT3-UNV "Cruze"	3500 K	
S2	2' LED Strip Light Fixture	Cooper Lighting - Metalux	2SLSTPSC-UNV	3500 K	
S4	4' LED Strip Light Fixture w/ motion sensor	Cooper Lighting - Metalux	4SRL-LD5-29SL-LN-UNV-L835-CD1-U	3500 K	WLS Dimming
VT	Vandal Resistant Vaporite LED Strip Fixture	Cooper Lighting - Fail Safe	4VRVT1-9L3C3	3500 K	
X1	Single-Face Exit Light Fixture with battery backup	Cooper Lighting - Sure Lites	APX7RG	3500 K	
X2	Dual-Face Exit Light Fixture with battery backup	Cooper Lighting - Sure Lites	APX7RG	3500 K	

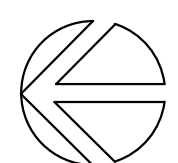
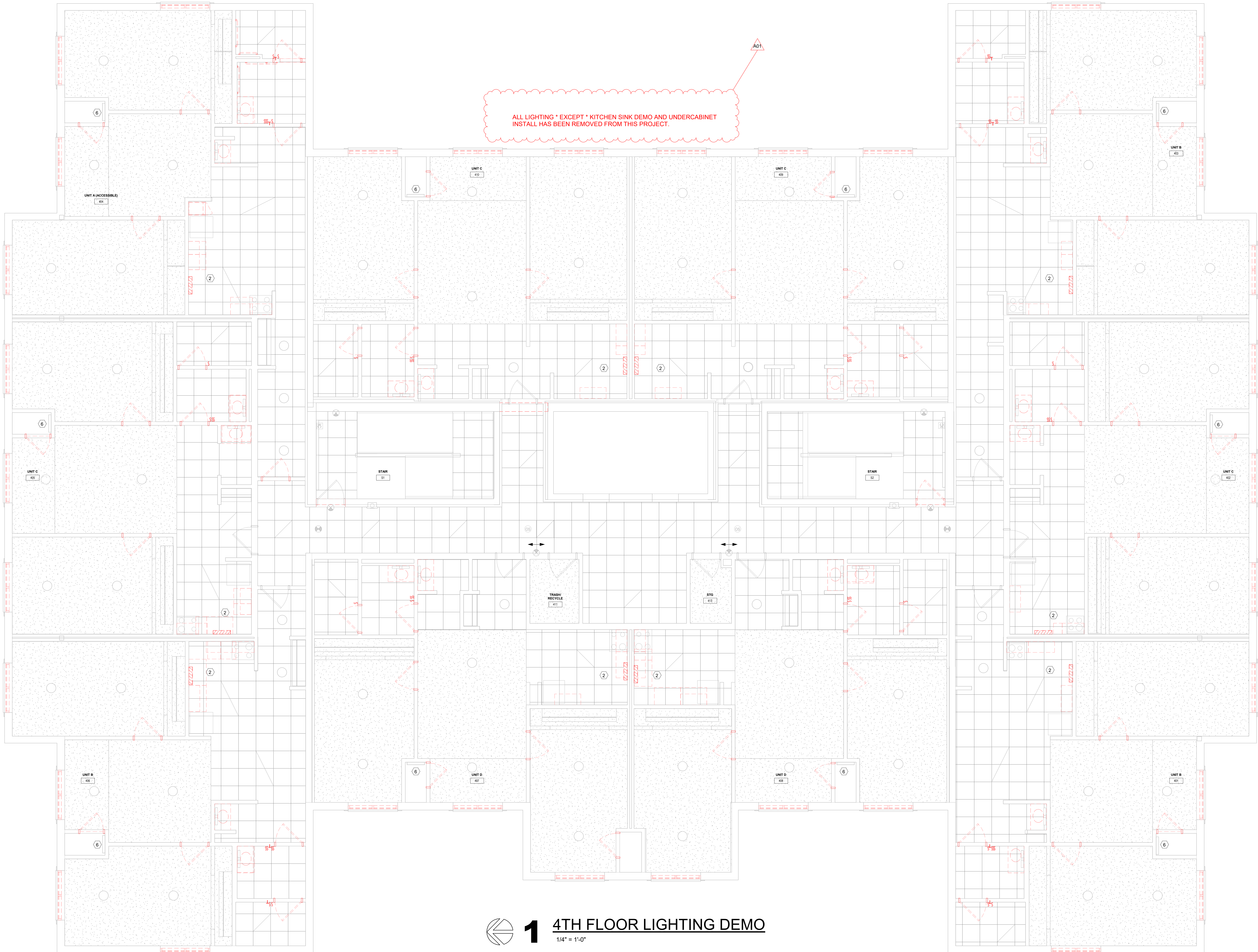
THIS FIXTURE REMAINS IN THE PROJECT



## 1 PROPOSED LIGHTING FIXTURE TYPES

1/8" = 1'-0"





1

## 4TH FLOOR LIGHTING DEMO

1/4" = 1'-0"

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HSR ASSOCIATES INC.  
100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
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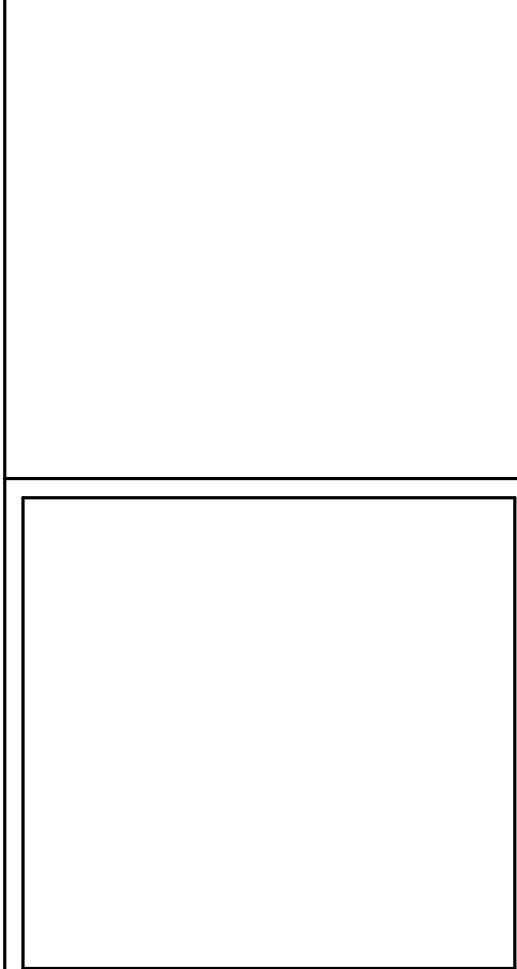
Project Title: **WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL RENOVATION, PHASE 1**

HSR Project Number:  
**25040-2022**

Project Date:  
**DECEMBER 16, 2025**

Drawn By:  
**HSR - jmh**

Key Plan:



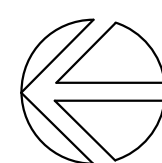
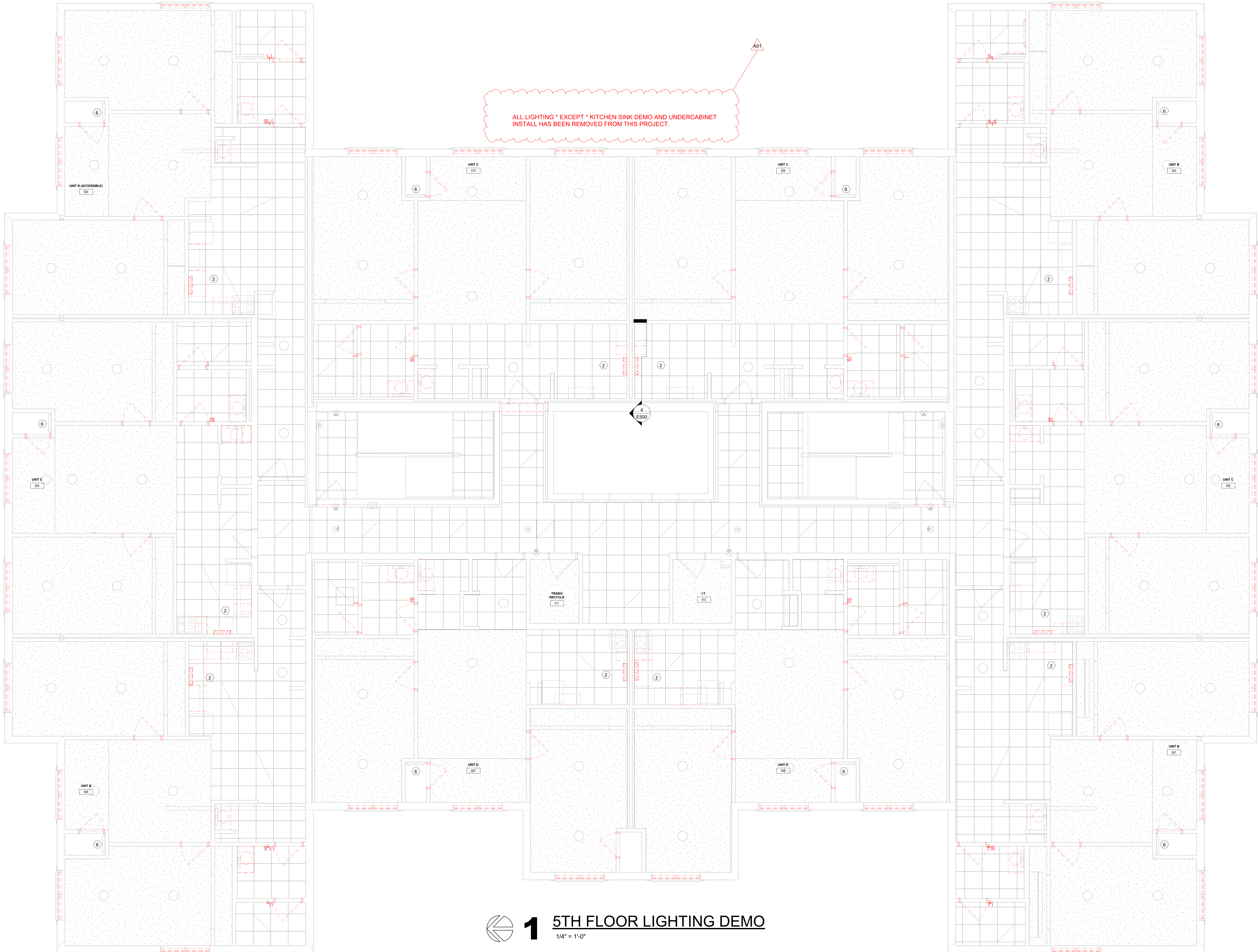
No.	Description	Date
A01	ADDENDUM #1	01/25/2022

Graphic Scale:  
**VARIES**

Last Update:  
**1/8/2026 11:22:45 AM**

# ED104





1

# 5TH FLOOR LIGHTING DEMO

1/4" = 1'-0"

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN



HSR ASSOCIATES INC.  
100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

## WESTERN TECHNICAL COLLEGE RESIDENCE HALL RENOVATION, PHASE 1

Project Location: 820 La Crosse St.  
La Crosse, WI 54601

Sheet Title: 5TH FLOOR LIGHTING DEMO PLAN

Project Title: HSR Project Number: 25040-2022

Project Date: DECEMBER 16, 2025

Drawn By: HSR - jmh

Key Plan:

No.	Description	Date
A01	ADDENDUM #1	01/25/2022

Graphic Scale: VARIES

Last Update: 1/8/2026 11:22:46 AM

ED105





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Consultant:

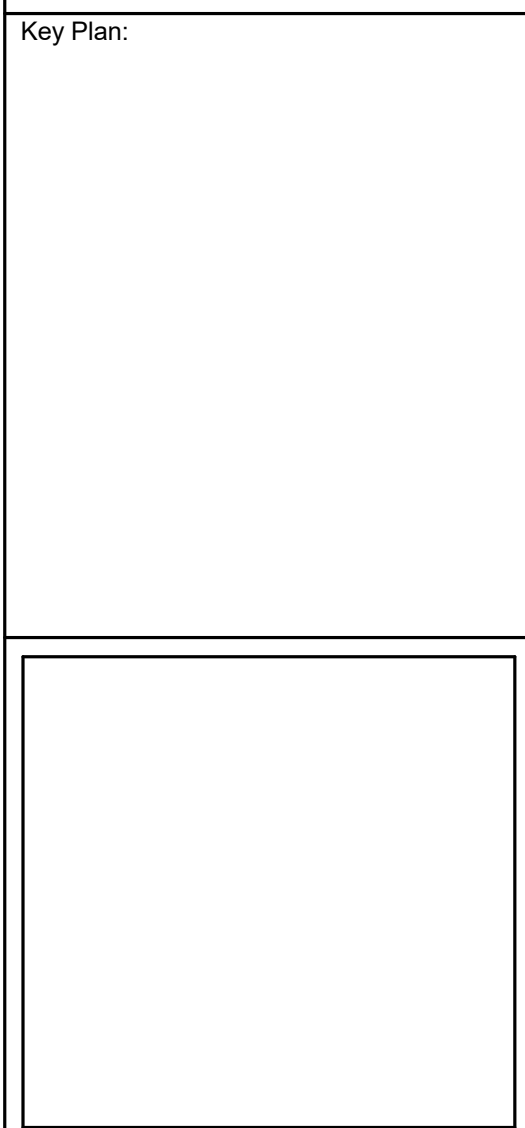
Project Title: **WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL RENOVATION, PHASE 1**

Project Number: **25040-2022**

Project Date: **DECEMBER 16, 2025**

Drawn By: **HSR - jmh**

Key Plan:



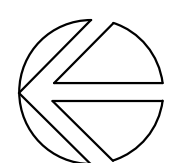
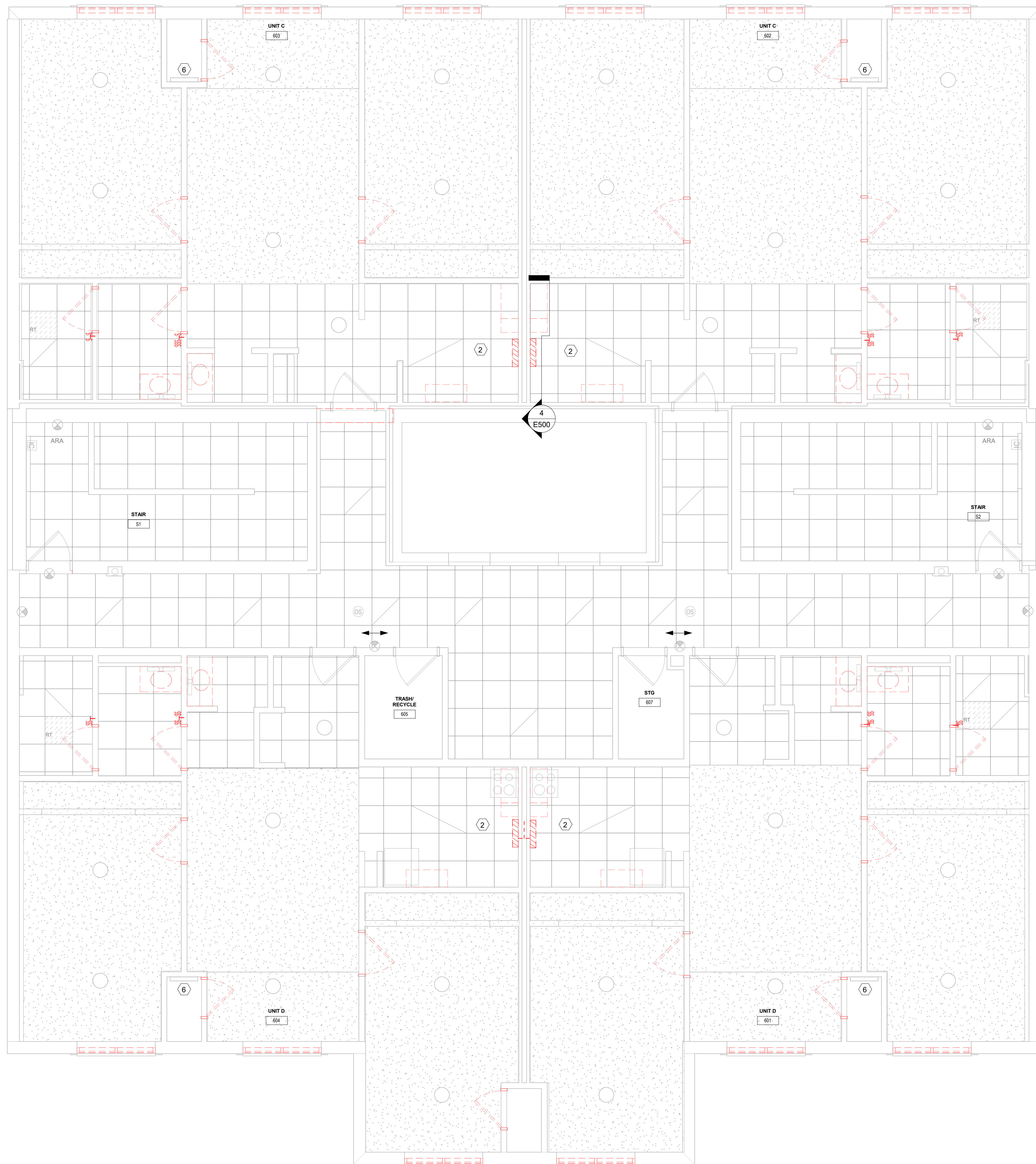
Revisions:		
No.	Description	Date
A01	ADDENDUM #1	01/25/2022

Graphic Scale:  
**VARIES**

Last Update:  
**1/8/2026 11:22:46 AM**

**ED106**

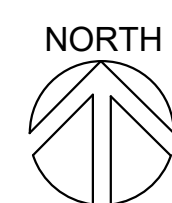
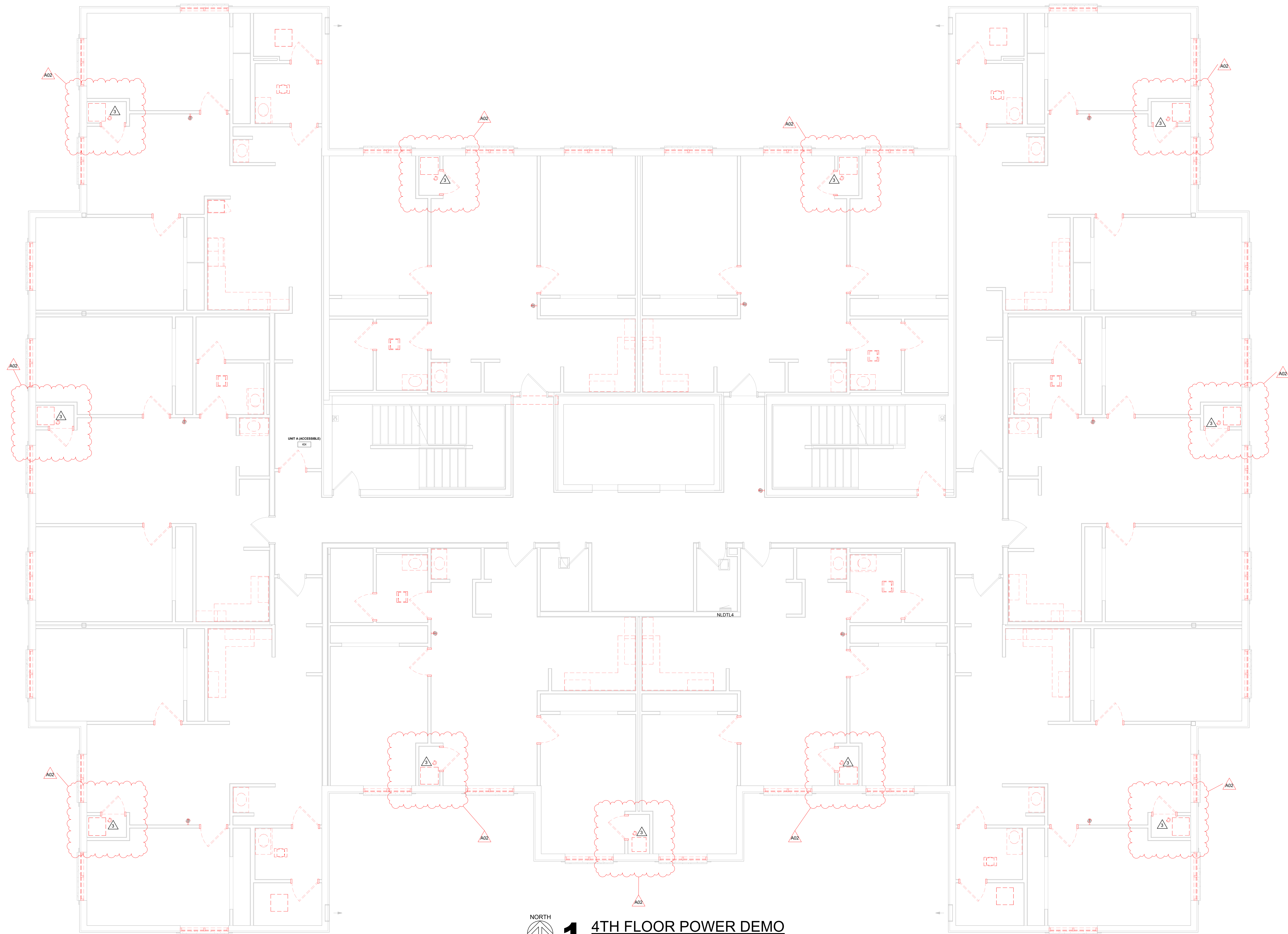
ALL LIGHTING \* EXCEPT \* KITCHEN SINK DEMO AND UNDERCABINET  
INSTALL HAS BEEN REMOVED FROM THIS PROJECT.



**1**

**6TH FLOOR LIGHTING DEMO**

1/4" = 1'-0"



1

# 4TH FLOOR POWER DEMO

1/4" = 1'-0"

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN



HSR ASSOCIATES INC.  
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LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

## WESTERN TECHNICAL COLLEGE RESIDENCE HALL RENOVATION, PHASE 1

Project Location: 820 La Crosse St.  
La Crosse, WI 54601

Sheet Title: 4TH FLOOR POWER DEMO PLAN

Project Title:  
HSR Project Number: 25040-2022

Project Date: DECEMBER 16, 2025

Drawn By: Author

Key Plan:

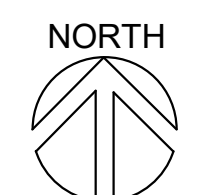
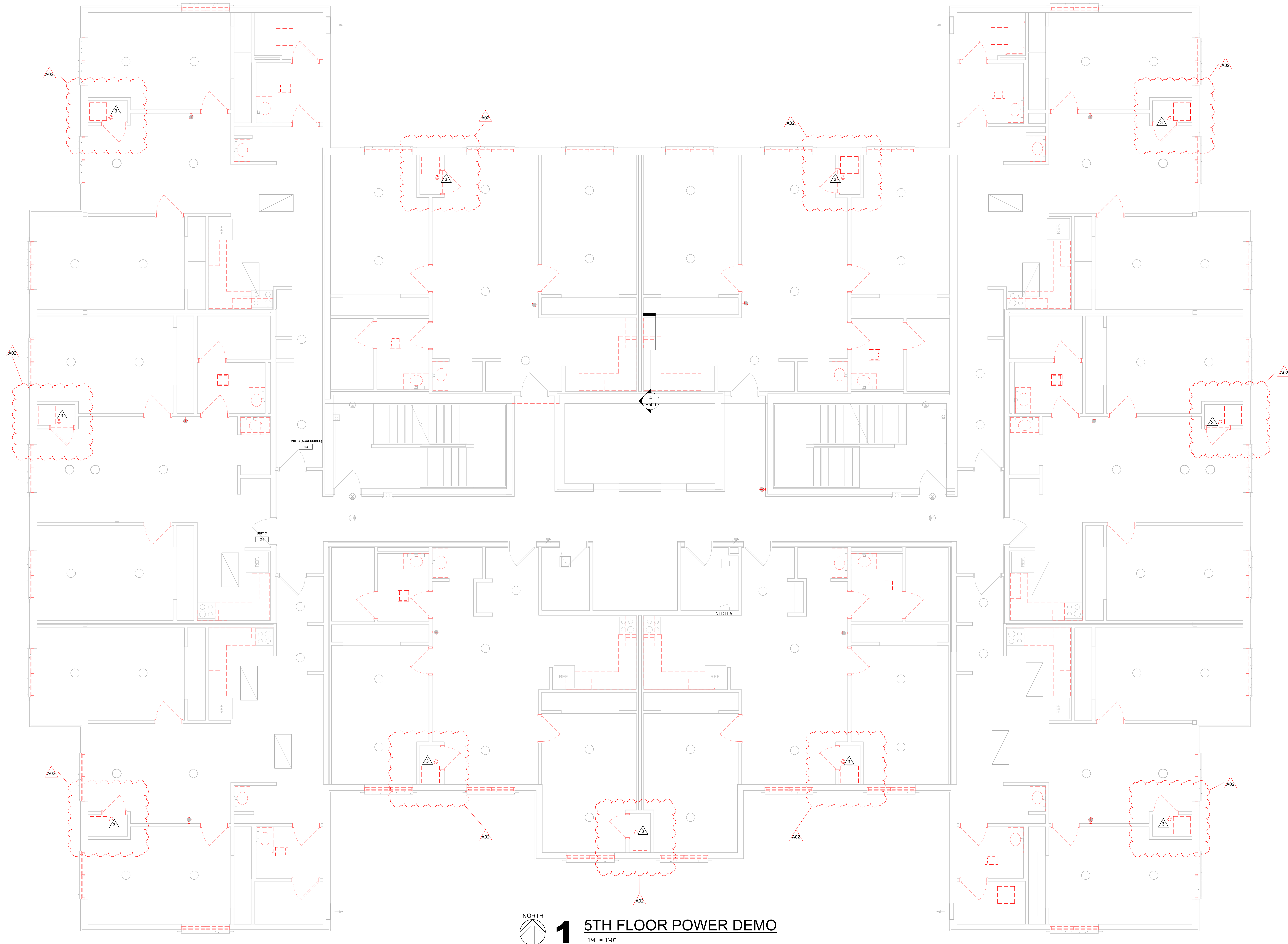
No.	Description	Date
A02	ADDENDUM #2	01/07/2026

Graphic Scale:  
VARIES

Last Update:  
1/8/2026 11:22:47 AM

# ED204





# 1 5TH FLOOR POWER DEMO

1/4" = 1'-0"

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN



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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

## WESTERN TECHNICAL COLLEGE RESIDENCE HALL RENOVATION, PHASE 1

Project Location: 820 La Crosse St.  
La Crosse, WI 54601

Sheet Title: 5TH FLOOR POWER DEMO PLAN

HSR Project Number: 25040-2022

Project Date: DECEMBER 16, 2025

Drawn By: Author

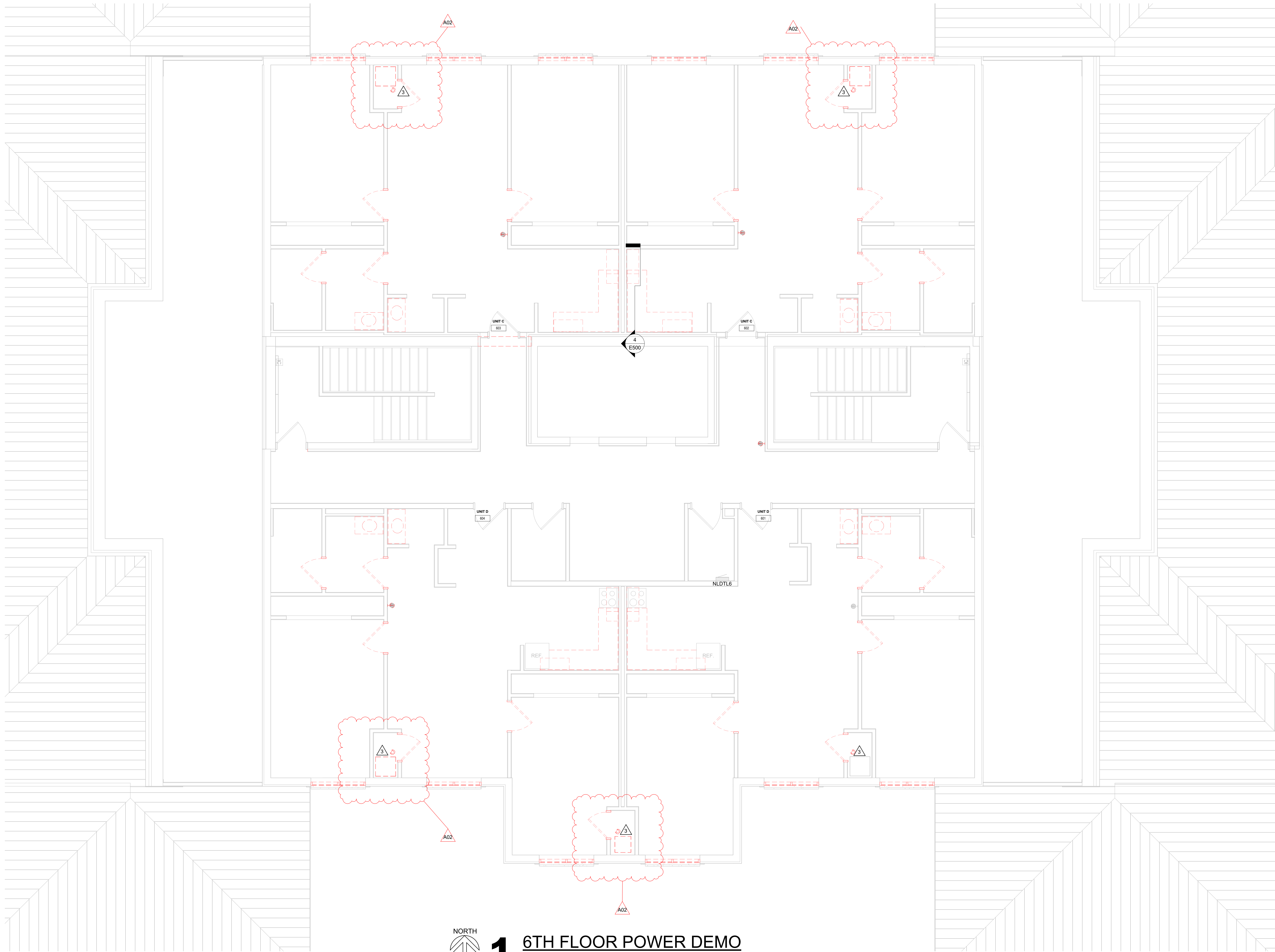
Key Plan:

No.	Description	Date
A02	ADDENDUM #2	01/07/2026

Graphic Scale: VARIES

Last Update: 1/8/2026 11:22:48 AM

# ED205



1

6TH FLOOR POWER DEMO

1/4" = 1'-0"

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN



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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL RENOVATION, PHASE 1

Project Location: 820 La Crosse St.  
La Crosse, WI 54601

Sheet Title: 6TH FLOOR POWER DEMO PLAN

HSR Project Number: 25040-2022

Project Date: DECEMBER 16, 2025

Drawn By: Author

Key Plan:

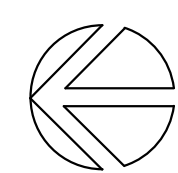
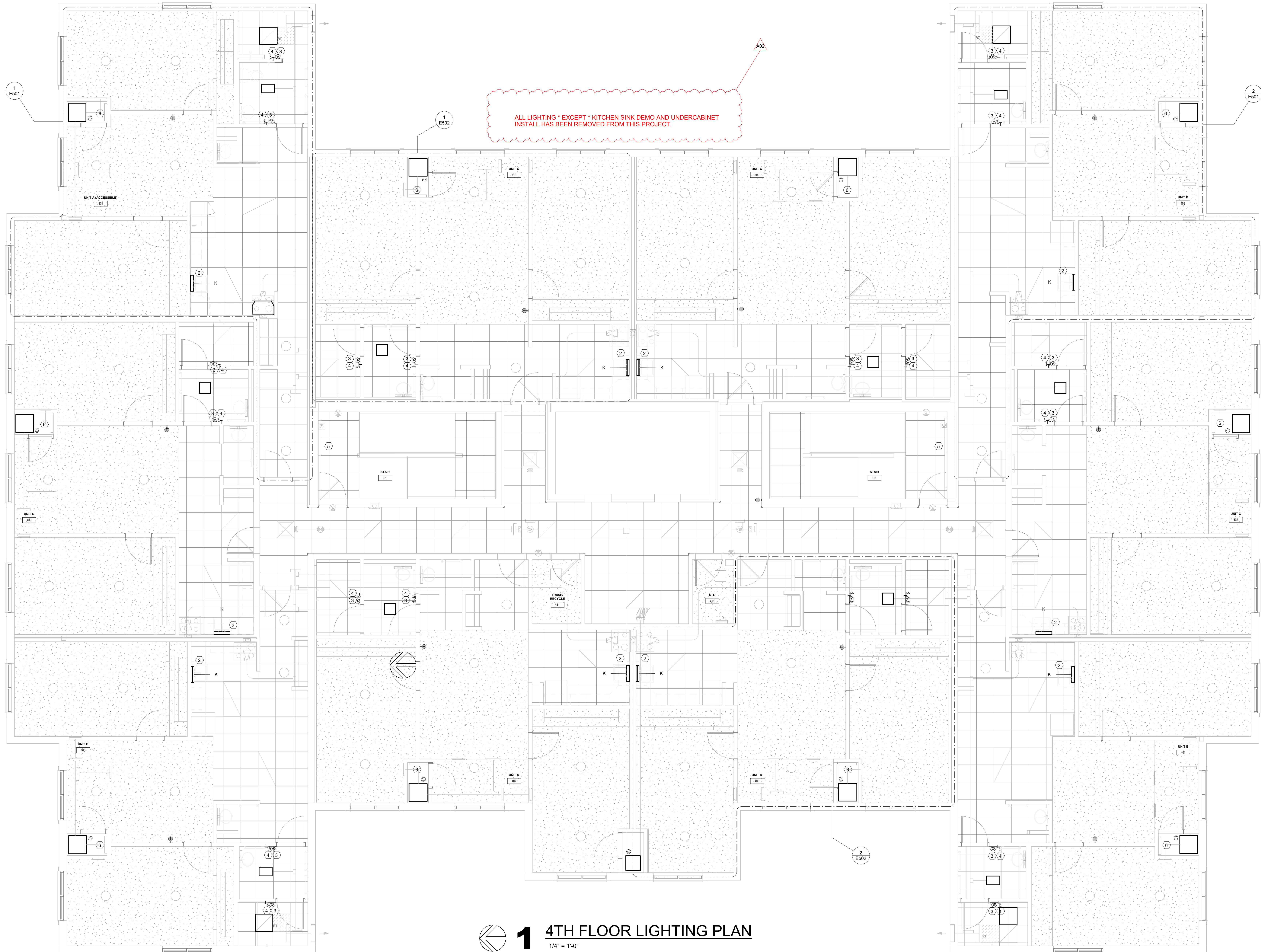
Revisions:		
No.	Description	Date
A02	ADDENDUM #2	01/07/2026

Graphic Scale: VARIES

Last Update: 1/8/2026 11:22:49 AM

ED206





# 1 4TH FLOOR LIGHTING PLAN

1/4" = 1'-0"

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN



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100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

Project Title: **WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL RENOVATION, PHASE 1**

Project Location: **820 La Crosse St.  
La Crosse, WI 54601**

Sheet Title: **4TH FLOOR LIGHTING PLAN**

HSR Project Number: **25040-2022**

Project Date: **DECEMBER 16, 2025**

Drawn By: **HSR - jmh**

Key Plan:

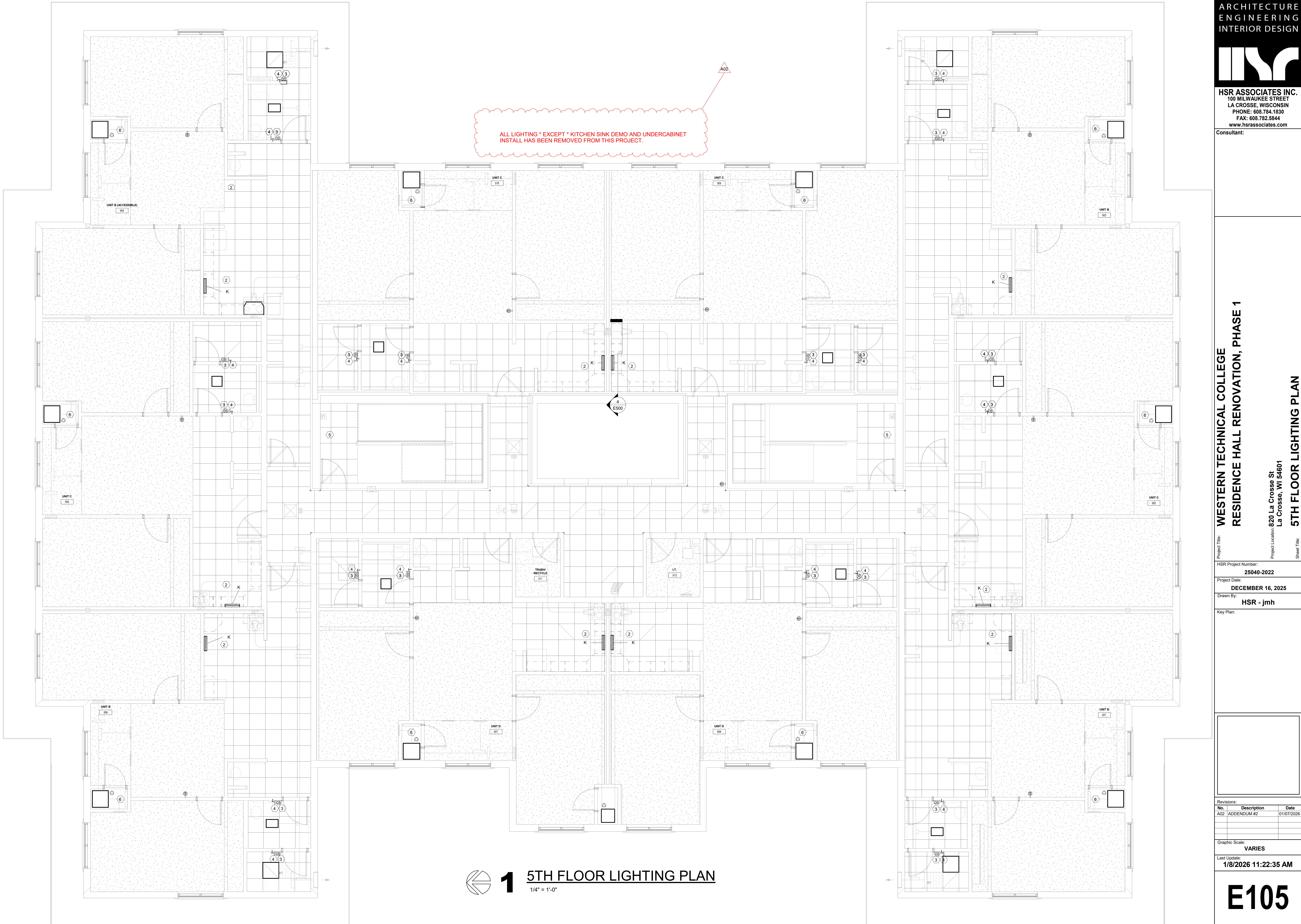
No.	Description	Date
A02	ADDENDUM #2	01/07/2026

Graphic Scale: **VARIES**


Last Update: **1/8/2026 11:22:32 AM**

# E104





ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN



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LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

Project Title: WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL RENOVATION, PHASE 1

Project Location: 820 La Crosse St.  
La Crosse, WI 54601

Sheet Title: 5TH FLOOR LIGHTING PLAN

HSR Project Number: 25040-2022

Project Date: DECEMBER 16, 2025

Drawn By: HSR - jmh

Key Plan:

Revisions:

No.	Description	Date
A02	ADDENDUM #2	01/07/2026

Graphic Scale: VARIES

Last Update: 1/8/2026 11:22:35 AM

E105





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FAX: 608.782.5844  
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Consultant:

Project Title: **WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL RENOVATION, PHASE 1**  
Project Location: **820 La Crosse St.  
La Crosse, WI 54601**  
Sheet Title: **6TH FLOOR LIGHTING PLAN**

HSR Project Number:  
**25040-2022**

Project Date:  
**DECEMBER 16, 2025**

Drawn By:  
**HSR - jmh**

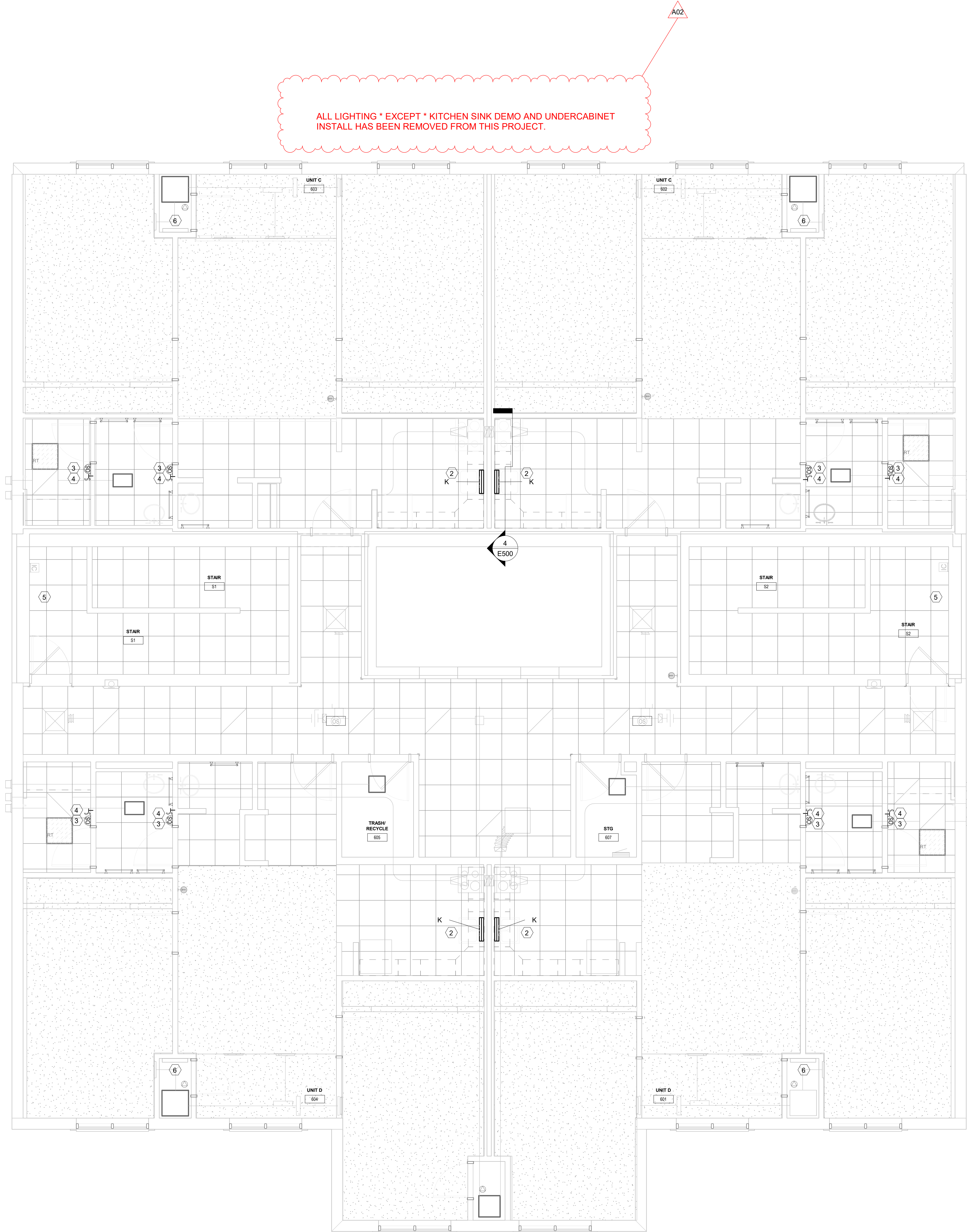
Key Plan:

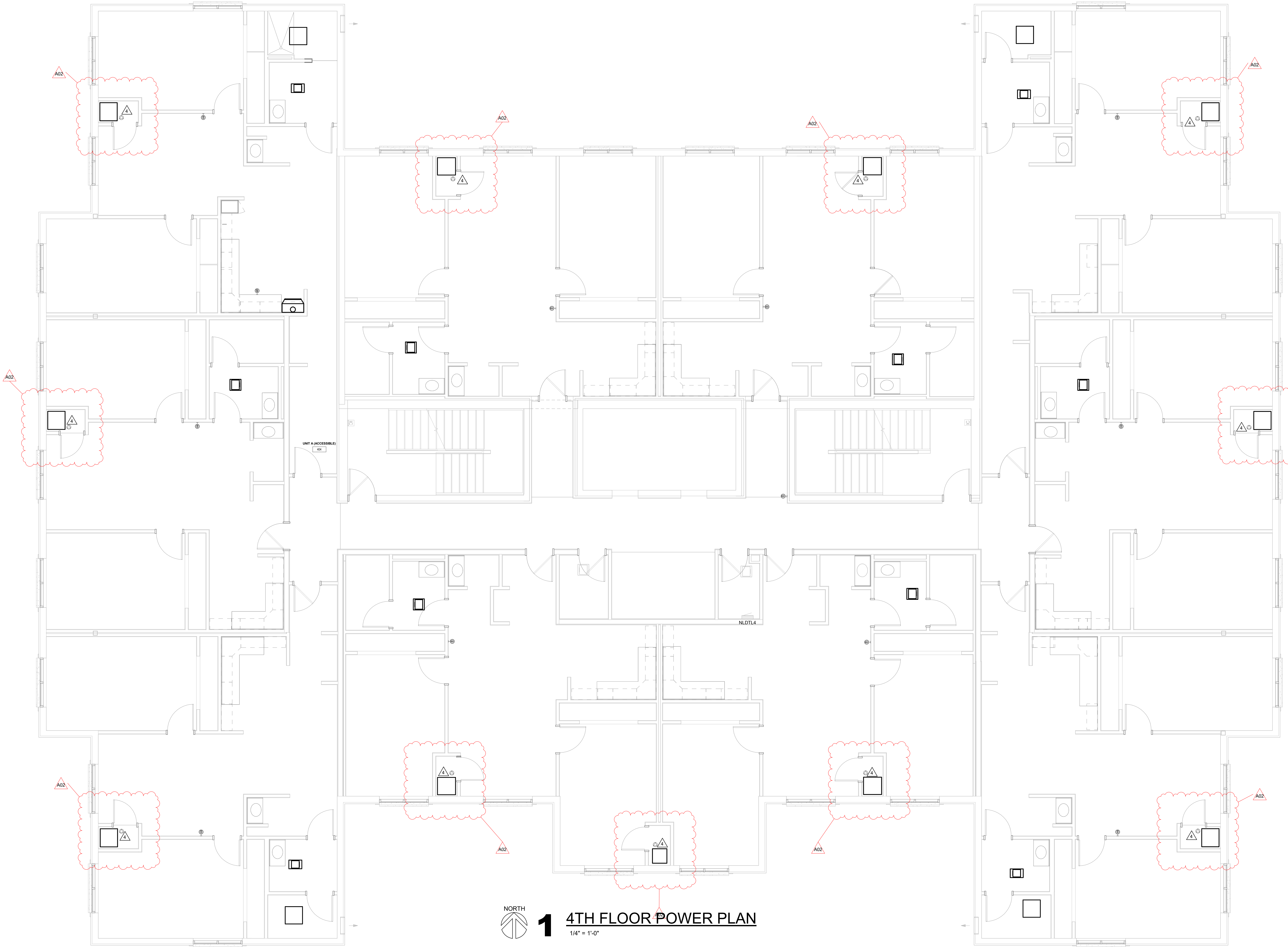
Revisions:		
No.	Description	Date
A02	ADDENDUM #2	01/07/2026

Graphic Scale:  
**VARIES**

Last Update:  
**1/8/2026 11:22:36 AM**

**E106**





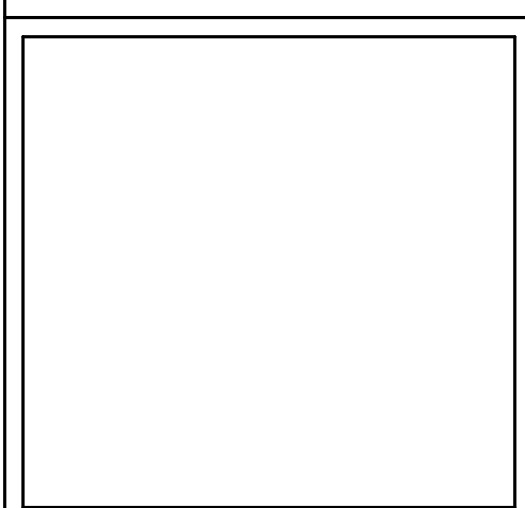
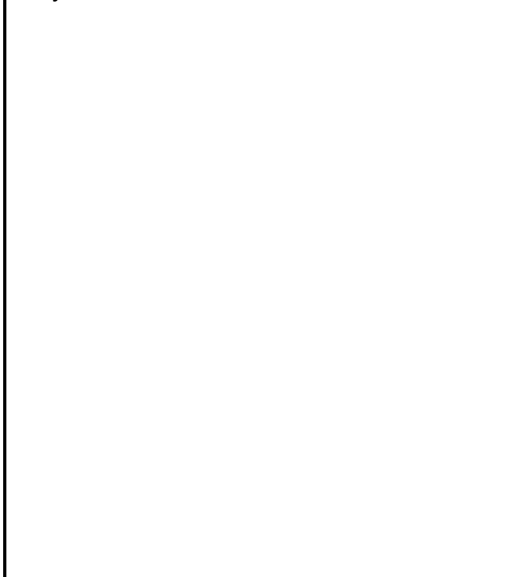
Project Title: **WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL RENOVATION, PHASE 1**

HSR Project Number: **25040-2022**

Project Date: **DECEMBER 16, 2025**

Drawn By: **Author**

Key Plan:



No.	Description	Date
A02	ADDENDUM #2	01/07/2026

Graphic Scale:
<b>VARIES</b>

Last Update:  
**1/8/2026 11:22:37 AM**

**E204**



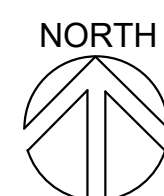
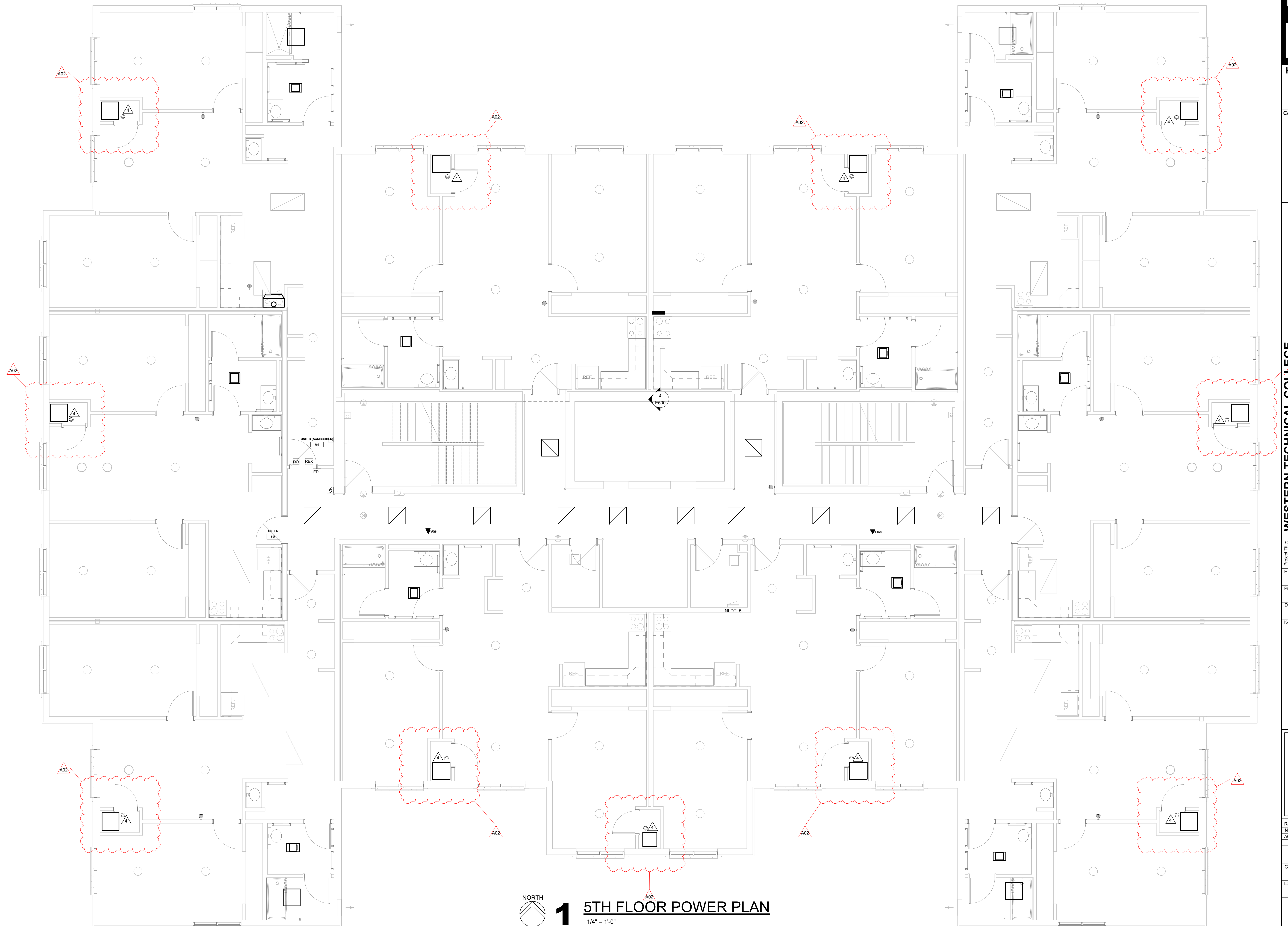
SR Project Number:	<b>25040-2022</b>
Project Date:	<b>DECEMBER 16, 2025</b>
Drawn By:	<b>Author</b>
Key Plan:	

Revisions:		
No.	Description	Date
02	ADDENDUM #2	01/07/2026

Graphic Scale: **VARIES**

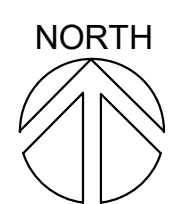
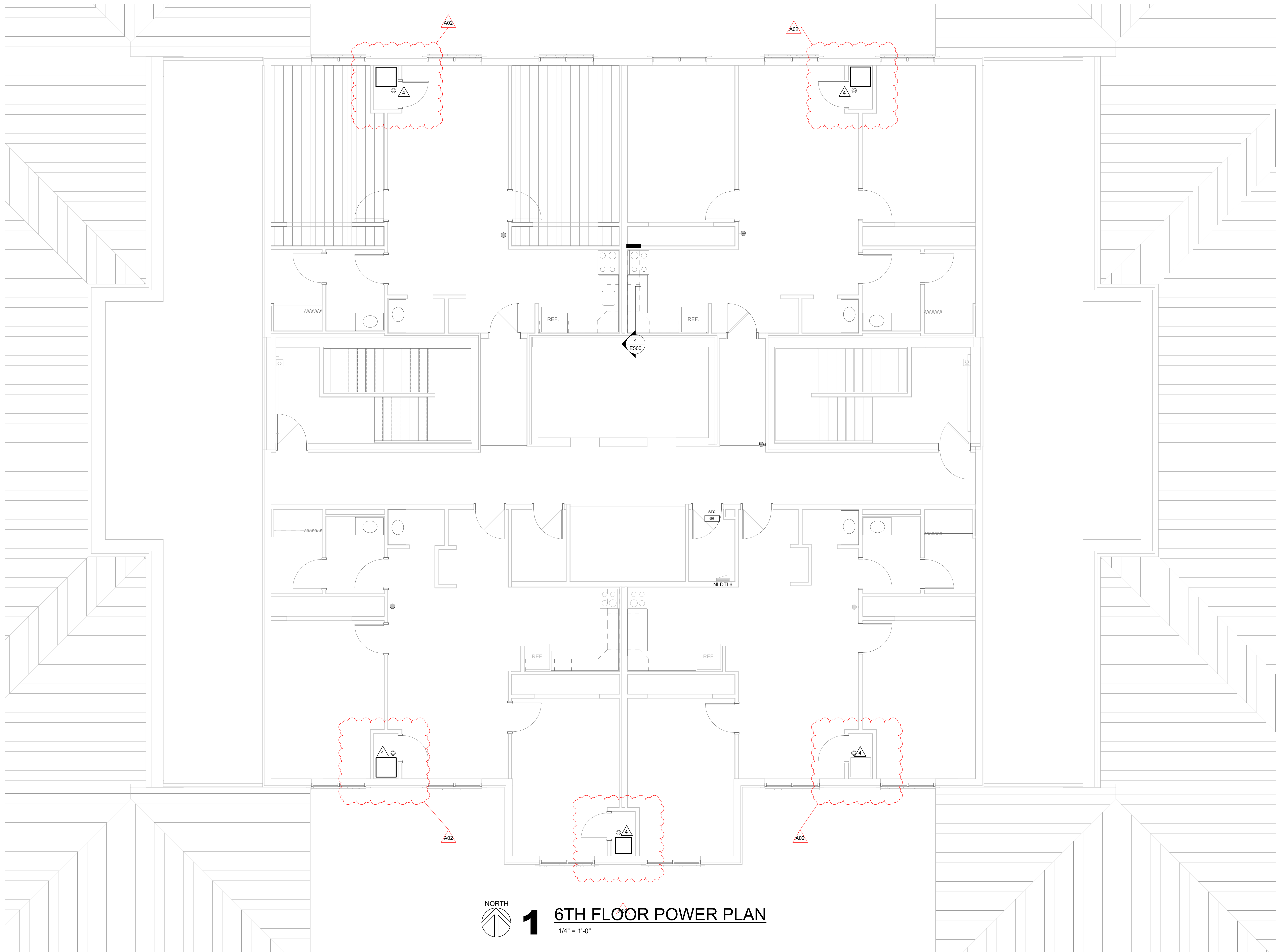
Last Update:  
**1/8/2026 11:22:38 AM**

# E205



# 1 5TH FLOOR POWER PLAN

$$1/4" = 1'-0"$$



1

6TH FLOOR POWER PLAN

1/4" = 1'-0"

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN



HSR ASSOCIATES INC.  
100 MILWAUKEE STREET  
LA CROSSE, WISCONSIN  
PHONE: 608.784.1830  
FAX: 608.782.5844  
www.hsrassociates.com

Consultant:

Project Title: WESTERN TECHNICAL COLLEGE  
RESIDENCE HALL RENOVATION, PHASE 1

Project Location: 820 La Crosse St.  
La Crosse, WI 54601

Sheet Title: 6TH FLOOR POWER PLAN

HSR Project Number: 25040-2022

Project Date: DECEMBER 16, 2025

Drawn By: Author

Key Plan:

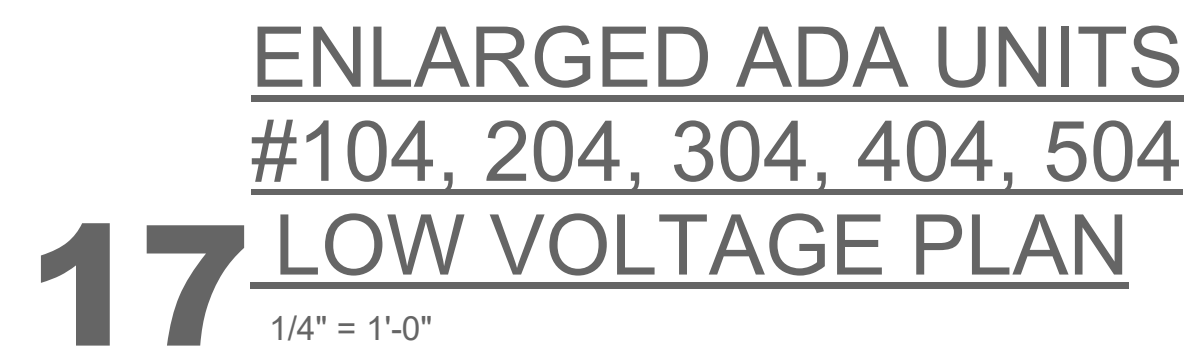
No.	Description	Date
A02	ADDENDUM #2	01/07/2026

Graphic Scale: VARIES

Last Update: 1/8/2026 11:22:39 AM

E206



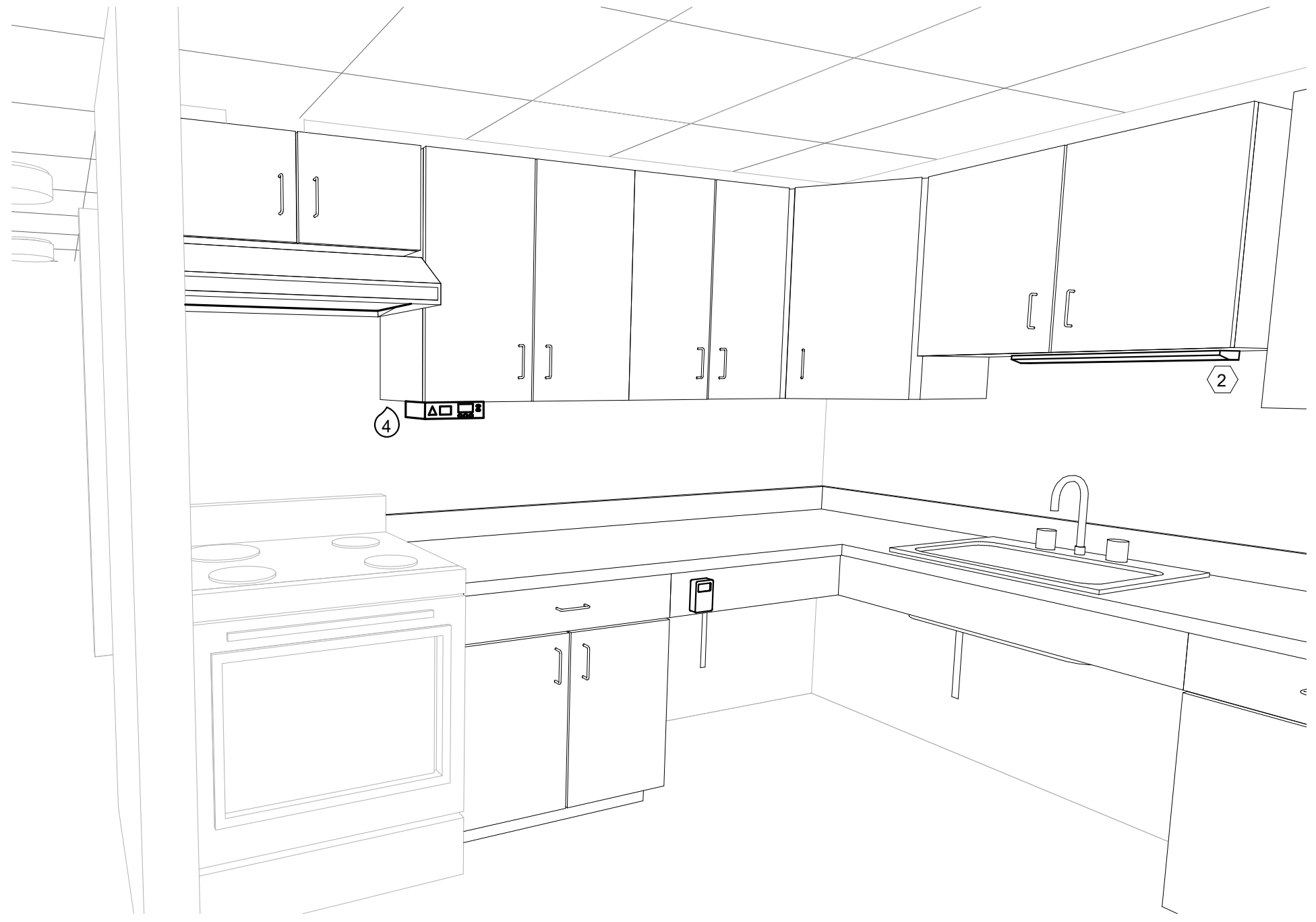


Last Update:  
**1/8/2026 11:22:42 AM**

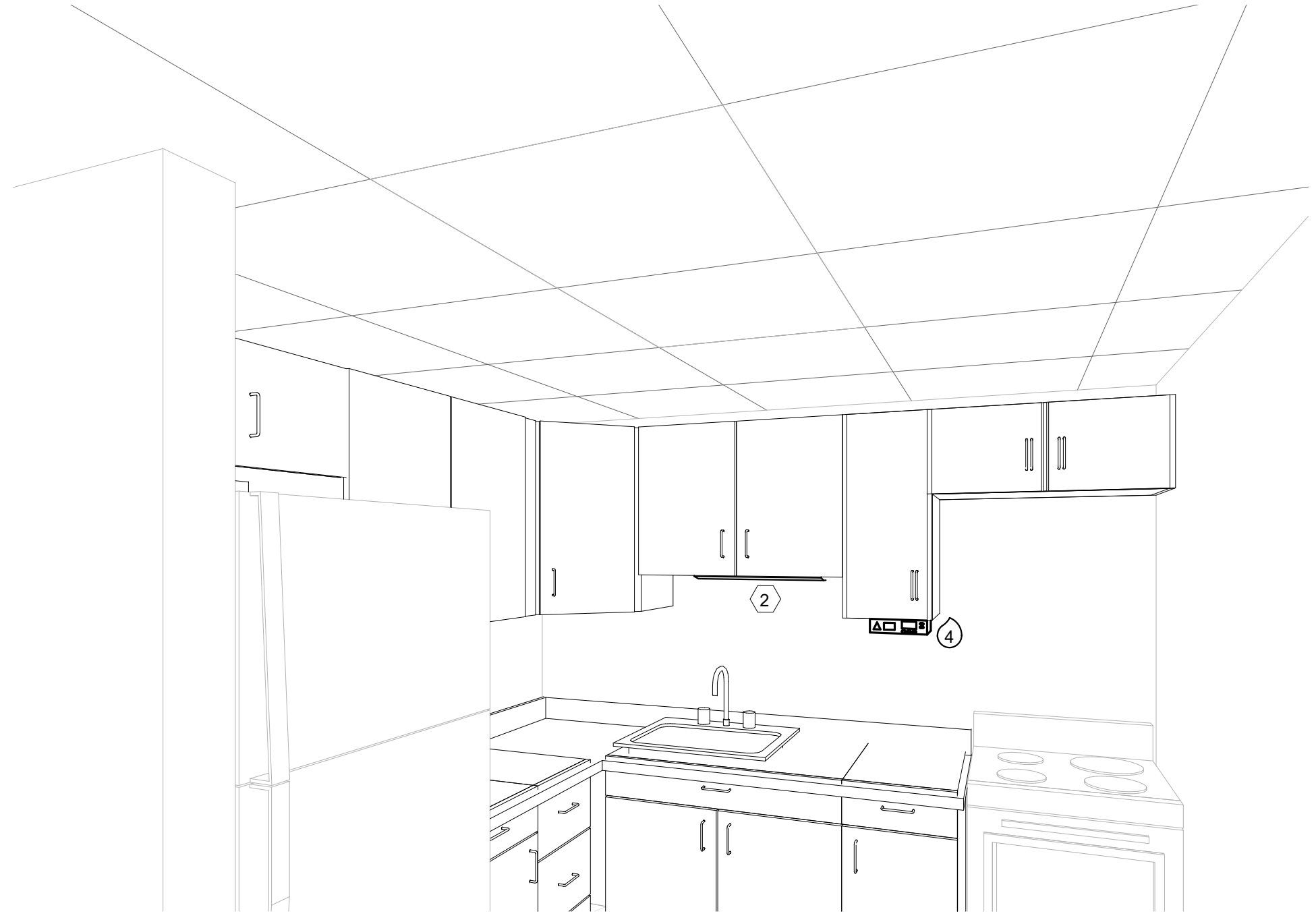




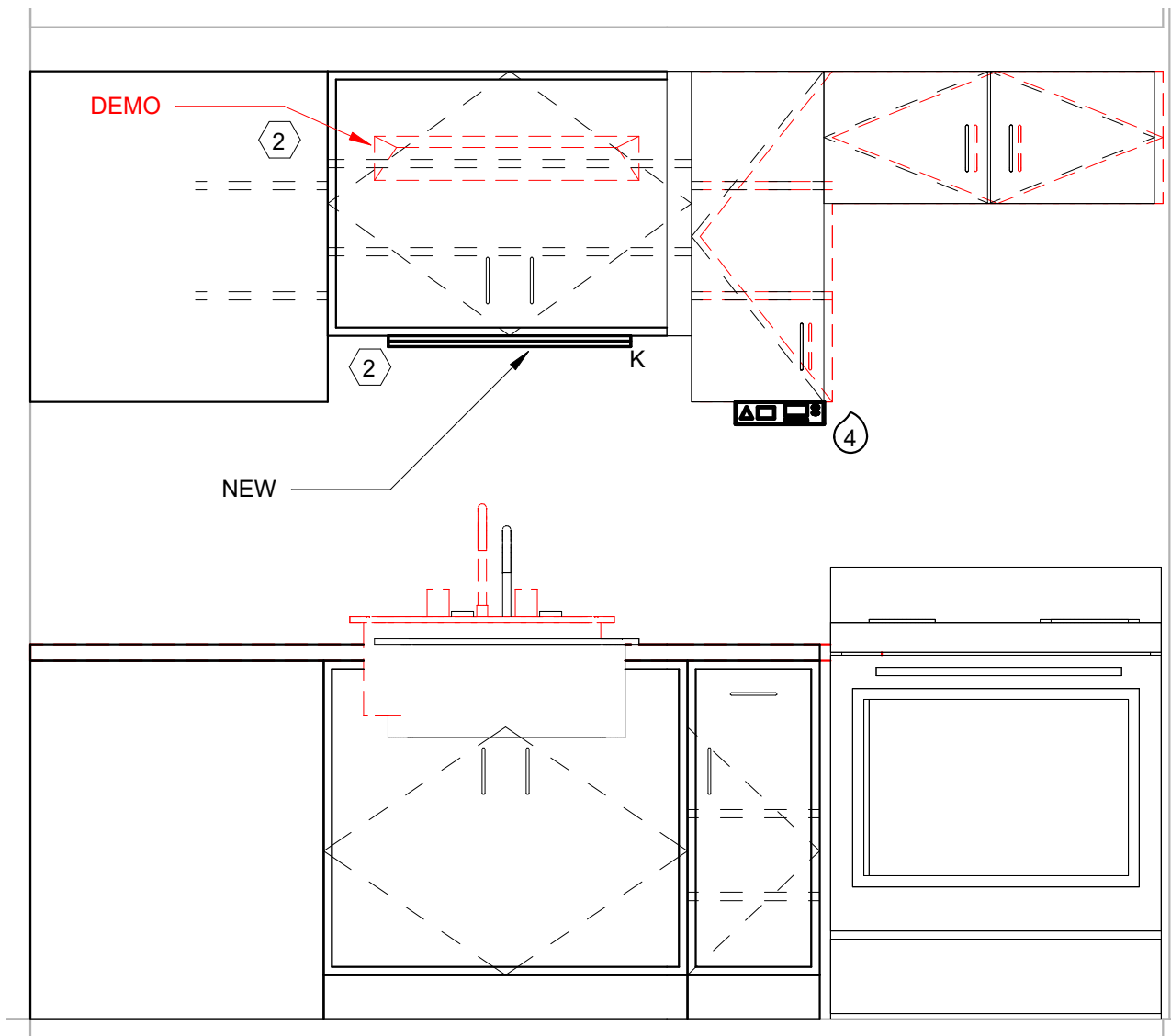
**1** 3D VIEW, KITCHEN #515



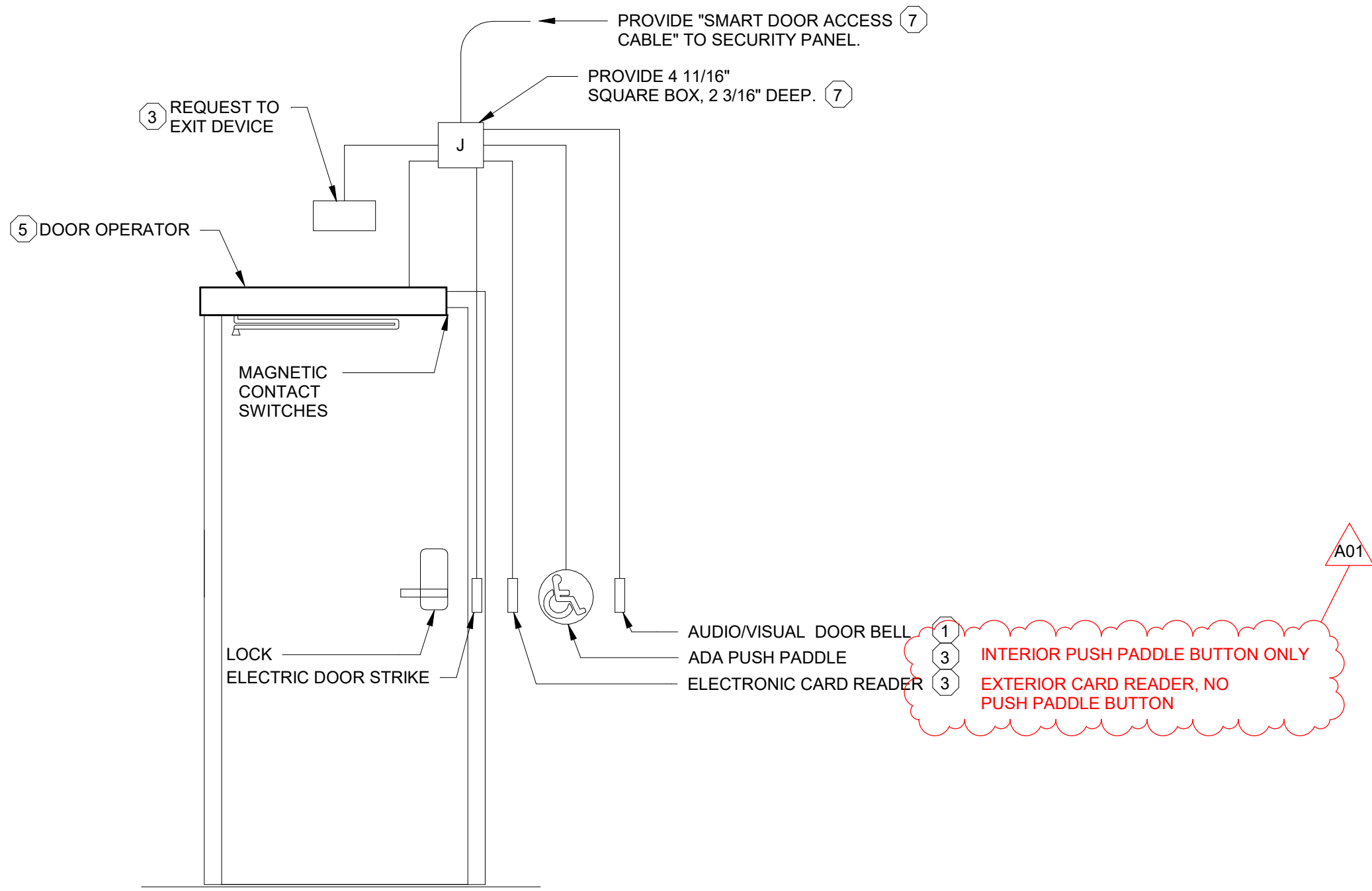
**2** 3D View, KITCHEN #4042



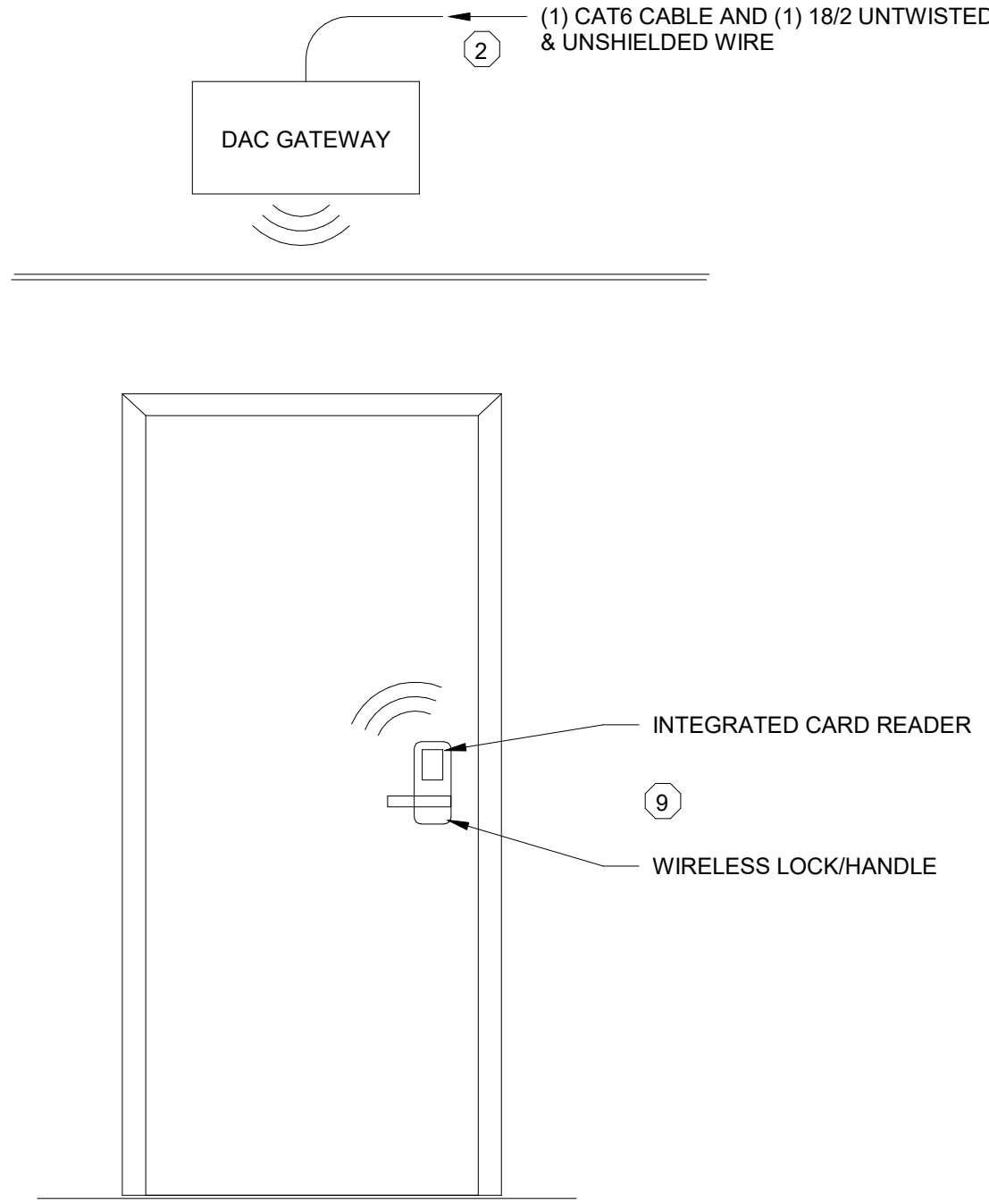
**3** 3D View, KITCHEN #505



**4** Section View, #602 KITCHEN SINK  
3/4" = 1'-0"



**5** WTC ADA DOOR ACCESS DETAIL  
NTS



**6** WTC NON-ADA UNIT WIRELESS DOOR ACCESS DETAIL, FLOORS 1-6  
NTS

No.	Description	Date
A01	ADDENDUM #1	01/25/2022

Graphic Scale:  
**VARIES**

Last Update:  
**1/8/2026 11:22:44 AM**

**E500**