DOCUMENT 00 90 00
ADDENDUM

ADDENDUM No.: 2
DATE: August 16, 2024
RE: WESTERN TECHNICAL COLLEGE
PHYSICAL PLANT OFFICE
505 9TH STREET NORTH
LA CROSSE, WISCONSIN 54601
PROJECT NO. 24003

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

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated August 2024. 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: 4 pages, 1 document, 3 sections, and 28 Sheets.

DOCUMENT:

1. Document PRE-BID MEETING SIGN IN SHEET

CHANGES TO SPECIFICATIONS:

2. Section 08 71 00 Door Hardware
    a. See the revised section included in this addendum. Disregard the previous version.
    b. Added Hardware Group 12 to describe requirements for doors 118, 122.
3. Section 09 21 16 Gypsum Board Assemblies
    a. See the revised section included in this addendum. Disregard the previous version.
    b. Revised paragraph 1.01 E from mold resistant gypsum tile backer to cementitious tile backer board.
4. Section 10 14 00 Signage
    a. See the revised section included in this addendum. Disregard the previous version.
    b. Added exhibits to show additional requirements for signage.

CHANGES TO DRAWINGS

5. Sheet G000 COVER SHEET 30"x42"
    a. See the narrative, immediately below, describing revisions to the sheet.
    b. Sheet E502 ELECTRICAL SCHEDULES is a new sheet included in this addendum. Include it in the index of drawings. A revised version of the sheet is not included in the addendum.

6. Sheet A091 REMOVAL SECOND FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added Removal General Note I regarding removing furniture in offices.

7. Sheet A100 BASEMENT PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added Plan Key Note 24 regarding replacement of auto operators at restroom doors.
    c. Added Plan Key Note 25 regarding wall mounting projector screens to be provided and installed by WTC in Room 121.
    d. Added Plan Key Note 26 regarding wall removal for HVAC.
    e. Added Plan General Note K regarding patching around existing fire alarm devices.
    f. Added Plan General Note L to clarify Contractor's scope regarding the equipment shown on the Equipment Schedule on sheet A101.

8. Sheet A101 FIRST FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added Plan Key Note 24 regarding replacement of auto operators at restroom doors.
    c. Added Plan Key Note 25 regarding wall mounting projector screens to be provided and installed by WTC in Room 121.
    d. Added Plan General Note K regarding patching around existing fire alarm devices.
    e. Added Plan General Note L to clarify Contractor's scope regarding the equipment shown on the Equipment Schedule on sheet A101.

9. Sheet A102 SECOND FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added Plan Key Note 24 regarding replacement of auto operators at restroom doors.
    c. Added Plan Key Note 25 regarding wall mounting projector screens to be provided and installed by WTC in Room 121.
    d. Added Plan General Note K regarding patching around existing fire alarm devices.
    e. Added Plan General Note L to clarify Contractor's scope regarding the equipment shown on the Equipment Schedule on sheet A101.

10. Sheet A110 RCP FIRST FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added RCP Key Note 13 regarding powering ceiling mounted projectors.

11. Sheet A601 DOOR SCHEDULE 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised door type for doors 105E and 105K from door type E to door type A.

12. Sheet ID102 WALL FINISH PLAN – SECOND FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added wall paint to rooms 217 and 215.

13. Sheet ID103 FLOOR FINISH PLAN – FIRST FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised floor finish in room 121 from fluid applied flooring to carpet.

14. Sheet S001 STRUCTURAL NOTES 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Updated Sheet List for revised sheets in this addendum.

15. Sheet S101 FOUNDATION PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Add contractor option for helical piers.
16. Sheet S103 ROOF FRAMING PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added section view indicator for new curtainwall connection detail.
17. Sheet S501 STEEL DETAILS & SCHEDULES 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added curtainwall connection detail 13S501.
18. Sheet E000 ELECTRICAL SITE PLAN, SYMBOLS AND SHEET INDEX 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Keyed notes #4 & #5 were and applied to existing pole light fixture to be relocated.
19. Sheet ED00 ELECTRICAL BASEMENT REMOVAL PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Keyed note #10 was added and applied to existing panels ‘A;, ‘C’, ‘NA’ and ‘P’.
20. Sheet ED03 ELECTRICAL FIRST FLR. PLAN - P./L.V. 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Keyed note #30 was added and applied to existing panelboard ‘G’ located in Classroom #113. Disconnect, remove and dispose of existing panelboard and associated feeder.
21. Sheet ED04 ELECTRICAL REMOVAL SECOND FLR. PLAN - P./L.V. 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Keyed note #28 was edited and note #30 was added.
22. Sheet E101 ELECTRICAL LIGHTING PLAN - FIRST FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added General Note F.
23. Sheet E102 ELECTRICAL LIGHTING PLAN -SECOND FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added General Note F.
24. Sheet E200 ELECTRICAL POWER PLAN - BASEMENT 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised notes #3, #6, #7, #10 & #11.
    c. Added keyed note #18.
25. Sheet E201 ELECTRICAL POWER PLAN - FIRST FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Keyed notes #26 and #27 added and applied to plan.
    c. Flex Room #121, Computer Labs #117 & #119 were revised.
26. Sheet E202 ELECTRICAL POWER PLAN - SECOND FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Keyed notes #26 and #27 added and applied to plan.

27. Sheet E300 ELECTRICAL LOW VOLTAGE PLAN - BASEMENT 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Refer to security camera changes in corridor 010.
    c. Added One (1) data jack in stair A #A01.
    d. Revised key note #15.
    e. Added keyed notes #46-49.

28. Sheet E301 ELECTRICAL LOW VOLTAGE PLAN - FIRST FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised keyed note #15.
    c. Added Keyed Notes #46 – 49.
    d. Revisions were made in Flex Room 121, Computer Labs 117 & 119.
    e. Add door contact to overhead door in Robotics 110.
    f. Add One (1) data jack in Storage Room 105J for printer.
    g. Added Alertis System Beacon connection in Robotics Room #110.

29. Sheet E302 ELECTRICAL LOW VOLTAGE PLAN - SECOND FLOOR 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised key note #15.
    c. Added keyed notes #46 – 49.
    d. Refer to security camera changes in corridor 200.
    e. Added One (1) data jack by South Elevator Lobby.
    f. Applied key note #49 to existing IT equipment racks located in Network Center 215.

30. Sheet E401 ELECTRICAL RISERS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added Electrical Riser Diagram 1/E401.

31. Sheet E500 ELECTRICAL SCHEDULES 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added Switchboard schedule.
    c. Revised Panelboard ‘F’.

32. Sheet E501 ELECTRICAL SCHEDULES 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added Panelboard ‘NA’.

33. Sheet E502 ELECTRICAL SCHEDULES 30"x42"
    a. See the new sheet included in this addendum.
    b. Added Panelboards ‘A’, ‘C’, ‘E’ & ‘P’.

END OF DOCUMENT 00 90 00

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
HSR Associates
Celebrating 70 Years of Innovative Design

Pre-Bid Meeting Sign-In Sheet

August 13, 2024

PROJECT: **WESTERN TECHNICAL COLLEGE**
INNOVATION CENTER
405 8TH STREET NORTH
LA CROSSE, WI 54601
HSR PROJECT NO. 24003

BID OPENING: 2:00 PM, August 27, 2024

Name	Company
1. Doug Ramsey	HSR
2. Jason Anhalt	C.J. Smith
3. Gene McCurdy	WTC
4. Brian Haun	WTC
5. Hunter Gross	Wieser Brothers
6. Clint Van Sambeek	Miron Const.
7. Dave Bartolerio	Laser Fire Prot.
8. James Fuchsel	LaCrosse Sign
9. Mason Mueller	Poellinger Electric
10. Tyler Schulz	Market + Johnson
11. Marcus Schindler	Market + Johnson
12. Sam Furtek	Market + Johnson
13. Fernando Lobato	Winona Heating & Ventilation
14. Petar Jurkovic	WINONA HEATING & VENTILATING
15. Julie Yahnke	Olympia Builders
16. Shana Kuzitsky	Integrity Fire Protection
17. Landon Jorgenson	Fire Protection Sprinklers
18. Dustin Retteratt	Wheel House Ind. 612-369-1523
19. Kenny Voss	Integrity Fire Protection

Name	Company	
20. Caleb Carpenter	Borton Construction	
21. Dan Mather	" "	
22. Bob Cary	CARY specialized services	608 790-0336 608 797-8247
23. Tony Bennett	Bernie Buchner Inc.	
24. Mike Prindle	Poellinger Inc	608-785-1234
25. Jim White	Lloyds	952-567-7635
26. Derek Pasch	La Crosse Glass	
27. Brandon Nelson	La Crosse Glass	
28. MARK KELLER	SUMMIT FIRE	507-718-9751
29. Zach Kaasjens	Viking Sprinkler	507-696-0567
30. Jake Beran	HSR Associates	608-785-4709
31. Ben Golden	Ashley	608-797-0575
32. Mark Clough	E Stanek Electric	608 792 8814
33. MIKE ALLEN	Fowler & HAMMER	608-782-6849
34. TYLER ESCHENBACH	Fowler & Hammer	
35. Michael McKeehen	Wheelhouse	651-855-8979
36. Ross DONOVAN	B+B	608 606 9085
37.		
38.		
39.		
40.		

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.

B. Section 08 16 13 – Flush Wood Doors.

C. Section 08 43 13 – Aluminum-Framed Storefronts.

D. Section 08 44 13 – Glazed Aluminum Storefronts.

E. Division 26 - Electrical.

1.04 REFERENCES

A. A.D.A. - Americans with Disabilities Act.

B. ANSI A117.1 - Specifications for making facilities accessible to physically handicapped people.

C. 36 CFR 1191 - Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities; Final Rule; current edition; (ADA Standards for Accessible Design).

D. NFPA 80 - Standards For Fire Doors and Windows.

E. NFPA 101 - Life Safety Code.

F. U.L. - Building Material Directory.

G. D.H.I. - Recommended Locations for Architectural Hardware.

H. Applicable State and Local Building Codes, including IBC2009.

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 2000 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

Products	Specified	Acceptable
Hinges	Stanley	IVES, McKinney, Hager
Flush Bolts	Rockwood	DCI, Trimco, Ives
Locks and Latches	Marshall Best	NO SUB
Push/Pull Latches	Rockwood	Trimco, Burns, Hager
Exit Devices	Von Duprin	Sargent
Door Closers	LCN	NO SUB
Protective Plates	Rockwood	Burns, Hager
Overhead Stops/Holders	ABH	Dorma, Glynn Johnson
Wall Stops/Floor Stops	Rockwood	Trimco, Hager, DCI
Thresholds, Sweeps, Weatherstrip	Reese	National Guard Products, Pemko

2.02 HINGES

A. Acceptable manufacturers and respective catalog numbers:

Description	P.B.B.	Stanley	McKinney	Hager
Std. Wt. Plain Bearing - Steel	PB81	F179	T2714	1279
Std. Wt. Ball Bearing - Steel	BB81	FBB179	TA2714	BB1279
Std. Wt. Ball Bearing -non ferrous	BB21/BB51	FBB191	TB2314	BB1191
Hvy. Wt. Ball Bearing Steel	4B81	FBB168	T4B3786	BB1168
Hvy. Wt. Ball Bearing – non ferrous	4B21/4B51	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:

Description	Rockwood	Ives	Trimco	DCI
Manual - Metal Door	555	FB458	3917	780F
Automatic - Metal Door	1842	FB31P	3810	842
Self Latching - Metal Door	1845	FB51P	3820	845
Dust Proof Strike	570	DP2	3911	82

B. Furnish a dustproof strike for all bottom bolts.

2.04 LOCKS AND LATCHES

A. Acceptable manufacturers and respective catalog numbers:

Description	Marshall Best
Mortise Locks	RE Series x Sentinel
Cylindrical Locks	MB1 Series x 15 Style

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

A. Acceptable manufacturers and respective catalog numbers:

Description	Von Duprin	Sargent
Wide Stile Rim	98 RIM	8800
Wide Stile Surf. Vert. Rod	9827	8700
Wide Stile Conc. Vert. Rod	9847	8600
Wide Stile Mortise	9875	8900
Narrow Stile Rim	35 RIM	8500
Narrow Stile Conc. Vert. Rod	3547	8400

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

A. Acceptable manufacturers and respective catalog numbers:

Description	Rockwood	Trimco	Burns

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

2.07 DOOR CLOSERS

A. Acceptable manufacturers and respective catalog numbers:

Description	LCN	Sargent
Heavy Duty Reg. Arm	4041	281
Heavy Duty Parallel Arm	4041 EDA	281 P10
Heavy Duty Stop Arm	4041 CUSH	281 PS
Medium Duty	1460	1430
Standard Duty-No Cover	1070	1100

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:

Description	LCN
Operator-Push Side	9540
Operator-Pull Side	9530
Operator - Push Side	4640
Operator - Pull Side	4630
Hard Wired Wall Switch	956
Wireless Wall Switch	957
Wireless Receiver	931
Touchless Actuators	8310-813
Bollard	8310-866

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.

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:

Description	A.B.H.	Dorma	Glynn Johnson
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

A. Acceptable manufacturers and respective catalog numbers:

Description	Rockwood	Hager
Wrought Convex Wall	407	232W
Wrought Concave w/Toggle	409	237W

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.

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

A. Acceptable manufacturers and respective catalog numbers:

Description	Reese	Pemko	National Guard
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. Protective Plates: US32D
9. Overhead Stops: Painted Aluminum
10. Wall Stops: US32D
11. Gasket: Black
12. Thresholds: Mill Aluminum
13. Weatherstrip, Sweeps: Clear Anodized Aluminum

2.15 KEYING REQUIREMENTS:

A. Key System: New factory-registered master key system. MBS 7-PIN Small Format Interchangeable Core. Initiate and conduct meetings(s) with Owner representatives to determine system keyway(s), keybow marking, structure, degrees of physical security and degree of geographic exclusivity. Furnish Owner's written approval of the system.

B. Small Format Interchangeable Cores: furnish 7-pin solid brass construction.

C. Cylinders/cores: keyed at factory of lock manufacturer where permanent records are maintained. Locksets and cylinders same manufacturer.

D. Permanent keys: Use secured shipment direct from point of origination to Owner.

E. Masterkeyed System Documents: Use secured shipment direct from point of origination to Owner at completion.

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.

HARDWARE GROUP 1
EACH PAIR OF ALUM DOORS TO HAVE:
DR.101.1/101.2,102.1/102.2,

2 EA	CONTINUOUS HINGES	BY ALUM DR/FR SUPPLIER	
1 EA	RIM EXIT DEVICE	99NL-OP X 110MD 626	VONDUPRIN
1 EA	RIM EXIT DEVICE	99EO 626	VONDUPRIN
1 EA	RIM CYLINDER WITH CORE	MBS-ICR X MBS-IC7 626	MBS
2 EA	OFFSET PULLS	BF157 US32D	ROCKWOOD
2 EA	ELECTRIC STRIKES	6300 US32D	VONDUPRIN
1 EA	CLOSERS	4040XP SCUSH 689	LCN
1 EA	DROP PLATES	4040XP-18PA 689	LCN
1 EA	CUSH SHOE SUPPORT	4040XP-30 689	LCN
1 EA	SPACER	4040XP-61 689	LCN
1 EA	SENIOR SWING OPERATOR	9542 REG 689	LCN
1 EA	ALUM BOLLARD	B-6SQ-RT-CL-SM-SG	WIKK
2 EA	ACTUATORS	8310-853T	LCN
1 EA	WEATHER SEAL	8310-801	LCN
2 EA	THRESHOLD	S425A36	REESE
1 EA	WEATHERSTRIP/SWEEP	BY ALUM DR/FR SUPPLLIER	
1 EA	CARD READER	BY ACCESS CONTROL VENDOR	

SWIPE CARD TO ACCESS AREA AFTER HOURS OR BEGINNING OF DAY. CARD READER, DPS AND POWER SUPPLY BY ACCESS CONTROL VENDOR

HARDWARE GROUP 2
EACH SINGLE DOOR TO HAVE:
DR.,105E,105L,105K,112A.1,206,210,211D

3 EA	BUTTS	FBB179 4.5 X 4.5 652	STANLEY
1 EA	OFFICE LOCK	MB1-03-01-15 626	MBS
1 EA	KICKPLATE	10 X 2”LDW US32D	ROCKWOOD
1 EA	WALL STOP	409 US32D	ROCKWOOD
1 EA	SILENCERS	608RKW GREY	ROCKWOOD

HARDWARE GROUP 3
EACH SINGLE DOOR TO HAVE:
DR. 109

1 EA	ELECTRIC STRIKE	6210 US32D	VONDUPRIN
1 EA	CLOSER	4040XP REG 689	LCN

REUSE ALL OTHER EXISTING DR,FR,HARDWARE. CONTRACTOR TO CUT IN ELECTRIC STRIKE INTO EXISTING FRAME TO WORK WITH EXISTING LOCK. CARD READER,POWER SUPPLY BY ACCESS CONTROL PROVIDOR.

HARDWARE GROUP 4
EACH SINGLE DOOR TO HAVE:
DR.,109A,111,205,215,

3 EA	BUTTS	FBB179 4.5 X 4.5 652	STANLEY
1 EA	OFFICE LOCK	MB1-03-01-15 626	MBS
1 EA	KICKPLATE	10 X 2"LDW US32D	ROCKWOOD
1 EA	SURFACE OHS	454S 652	GLYNN JOHN
1 EA	SILENCERS	608RKW GREY	ROCKWOOD

HARDWARE GROUP 5
EACH SINGLE DOOR TO HAVE:
DR.,109B

3 EA	BUTTS	FBB179 4.5 X 4.5 652	STANLEY
1 EA	PASSAGE LOCK	MB1-03-30-15 626	MBS
1 EA	KICKPLATE	10 X 2"LDW US32D	ROCKWOOD
1 EA	WALL STOP	409 US32D	ROCKWOOD
1 EA	SILENCERS	608RKW GREY	ROCKWOOD

HARDWARE GROUP 6
EACH SINGLE DOOR TO HAVE:
DR.,110.1,112.1,208.1,

3 EA	BUTTS	FBB179 4.5 X 4.5 652	STANLEY
1 EA	OFFICE LOCK	MB1-03-01-15 626	MBS
1 EA	ELECTRIC STRIKE	6211 US32D	VONDUPRIN
1 EA	CLOSER	4040XP REG 689	LCN
1 EA	KICKPLATE	10 X 2"LDW US32D	ROCKWOOD
1 EA	SURFACE OHS	454S 652	GLYNN JOHN
1 EA	SILENCERS	608RKW GREY	ROCKWOOD

SWIPE CARD TO ACCESS AREA AFTER HOURS OR BEGINNING OF DAY. CARD READER, DPS AND POWER SUPPLY BY ACCESS CONTROL VENDOR

HARDWARE GROUP 7
EACH SINGLE DOOR TO HAVE:
DR.,207A

3 EA	BUTTS	FBB179 4.5 X 4.5 652	STANLEY
1 EA	STORERM LOCK-CYL	MB1-03-05-15 626	MBS
1 EA	KICKPLATE	10 X 2"LDW US32D	ROCKWOOD
1 EA	WALL STOP	409 US32D	ROCKWOOD
1 EA	SILENCERS	608RKW GREY	ROCKWOOD

HARDWARE GROUP 8
EACH SINGLE DOOR TO HAVE:
DR.,209

3 EA	BUTTS	FBB179 4.5 X 4.5 652	STANLEY
1 EA	PRIVACY LOCK	MB1-03-20-15 626	MBS
1 EA	KICKPLATE	10 X 2”LDW US32D	ROCKWOOD
1 EA	WALL STOP	409 US32D	ROCKWOOD
1 EA	SILENCERS	608RKW GREY	ROCKWOOD

HARDWARE GROUP 9
EACH PAIR OF DOORS TO HAVE:
DR.207

6 EA	HINGES	FBB179 4.5 X 4.5 652	STANLEY
1 EA	OFFICE LOCK	MB1-03-01-15 626	MBS
1 EA	TOP FLUSH BOLT	FB458 26D	IVE
2 EA	WALL STOPS	409 US32D	ROCKWOOD
1 EA	GASKET	F797B25	REESE
2 EA	ASTRAGAL FINS	S771D7	PEMKO
1 EA	LATCHGUARD	320CXL US32D	ROCKWOOD

HARDWARE GROUP 10
EACH SINGLE DOOR TO HAVE:
DR.,208.2

3 EA	BUTTS	FBB179 4.5 X 4.5 652	STANLEY
1 EA	COMMUNICATING LOCK	MB1-03-09-15 626	MBS
1 EA	CLOSER	4040XP SHCUSH 689	LCN
1 EA	KICKPLATE	10 X 2”LDW US32D	ROCKWOOD
1 EA	SILENCERS	608RKW GREY	ROCKWOOD

HARDWARE GROUP 11
EACH PAIR OF EXISTING ALUM DOORS TO HAVE:
DR.102.3,101.3

1 EA	SENIOR SWING OPERATOR	9542 REG 689	LCN
2 EA	ACTUATORS	8310-853T	LCN

VERIFY ON SITE AND WITH OWNER PRIOR TO ORDERING IF CUSTOMER WANTS NEW OPERATORS MOUNTED ON INSIDE OF VESTIBULE OR INSIDE OF SCHOOL.

HARDWARE GROUP 12
EACH SINGLE DOOR TO HAVE:
DR.118,122.

1 EA	SENIOR SWING OPERATOR	9531 REG 689	LCN
1 EA	ACTUATOR PKG	8310-3857TW	LCN

REUSE ALL ACTUATORS, REUSE ALL OTHER DR,FR,HARDW

END OF SECTION 08 71 00

SECTION 09 21 16
GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Performance criteria for gypsum board assemblies.

B. Metal stud wall framing.

C. Acoustic insulation.

D. Gypsum wallboard.

E. Cementitious tile backing board.

F. Joint treatment and accessories.

G. Acoustic sealant and installation of acoustic accessories, (sealants, insulation, etc.).

1.02 RELATED REQUIREMENTS

A. Section 01 40 00 - Quality Requirements: Requirements for Contractor's Design-Related Professional Design Service.

B. Section 07 84 00 - Firestopping: Top-of-wall assemblies at fire-resistance-rated walls.

C. Section 07 92 00 - Joint Sealants: Sealing acoustical gaps in construction other than gypsum board or plaster work.

D. Section 09 30 00 - Tiling: Provide metal studs of minimum 20 ga and prep cementitious backer per the requirements of the wall tiling method.

E. Section 09 91 23 - Interior Painting.

1.03 REFERENCE STANDARDS

A. AISI S100 - North American Specification for the Design of Cold-Formed Steel Structural Members; 2016, with Supplement (2020).

B. AISI S220 - North American Standard for Cold-Formed Steel Nonstructural Framing; 2020.

C. AISI S240 - North American Standard for Cold-Formed Steel Structural Framing; 2015, with Errata (2020).

D. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units; 2018.

E. ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 2019.

F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.

G. ASTM A1003/A1003M - Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members; 2015.

H. ASTM C1007 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories; 2020.

I. ASTM C475/C475M - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2017 (Reapproved 2022).

J. ASTM C754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2020.

K. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2023.

L. ASTM C954 - Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness; 2022.

M. ASTM C1002 - Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2022.

N. ASTM C1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base; 2019.

O. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2017.

P. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.

Q. ASTM E72 - Standard Test Methods of Conducting Strength Tests of Panels for Building Construction; 2022.

R. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2023.

S. GA-216 - Application and Finishing of Gypsum Panel Products; 2021.

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 data on metal framing, gypsum board, accessories, and joint finishing system.
   2. Product Data: Provide manufacturer's data on partition head to structure connectors, showing compliance with requirements.

1.05 QUALITY ASSURANCE

A. Stud Design: Manufacturer shall design stud gauge and confirm stud depth to meet performance requirements based on stud height.

PART 2 PRODUCTS

2.01 METAL FRAMING MATERIALS

A. Steel Sheet: ASTM A1003/A1003M, subject to the ductility limitations indicated in AISI S220 or equivalent.

B. Manufacturers - Metal Framing, Connectors, and Accessories:
   1. ClarkDietrich Building Systems: www.clarkdietrich.com.
   2. Jaimes Industries: www.jaimesind.com.
   3. MarinoWARE: www.marinoware.com.
   4. MBA Metl Framing: www.mbastuds.com.
   5. Safti-Seal: www.saftiseal.com.
   6. Telling Industries: www.buildstrong.com.
   7. The Steel Network, Inc: www.SteelNetwork.com.
   8. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

C. Non-structural Framing System Components: ASTM C645; galvanized, G40 coated, sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/120 at 5 psf.
   1. Exception: The minimum metal thickness and section properties requirements of ASTM C645 are waived provided steel of 40 ksi minimum yield strength is used, the metal is continuously dimpled, the effective thickness is at least twice the base metal thickness, and maximum stud heights are determined by testing in accordance with ASTM E72 using assemblies specified by ASTM C754.
   2. Studs: C-shaped with knurled or embossed faces.
   3. Runners: U shaped, sized to match studs.
   4. Ceiling Channels: C-shaped.
   5. Furring Members: Hat-shaped sections, minimum depth of 7/8 inch.

6. Z-Furrring: Z sections at depth indicated on Drawings.
7. Resilient Furring Channels: 1/2 inch depth, for attachment to substrate through one leg only.
8. Preformed Notched Backing Plates: 20 ga, G40 coated, cold formed plate with preformed lip, having stud notches at 16 inches on center. Install for backing to attach wall mounted items.
    a. SaftiFrame: PS51 Notched Strong Back Backing Profile. www.saftiseal.com.
    b. SaftiFrame: PS52 Flush Backing Plate Flush Mount Backing Profile. www.saftiseal.com.

D. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection and prevent rotation of studs while maintaining structural performance of partition.
1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI S100.
2. Material: ASTM A653/A653M steel sheet, SS Grade 50/340, with G60/Z180 hot-dipped galvanized coating.
3. Provide mechanical anchorage devices as described above that accommodate deflection while maintaining the fire-resistance rating of the wall assembly.
    a. Products:
        1) FireTrak Corporation; Posi Klip: www.fire-trak.com.
        2) Metal-Lite, Inc; The System: www.metal-lite.net.
        3) ClarkDietrich Building Systems; MaxTrack Slotted Deflection Track.
        4) Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.
4. Provide top track preassembled with connection devices spaced to fit stud spacing indicated on drawings; minimum track length of 10 feet.
5. Deep legged track, minimum 2 inches with crimped stud allowed.

E. Non-structural Framing Accessories:
1. Ceiling Hangers: Type and size as specified in ASTM C754 for spacing required.
2. Framing Connectors: ASTM A653/A653M G90 galvanized steel clips; secures cold rolled channel to wall studs for lateral bracing.
    a. Products:
        1) ClarkDietrich; FastBridge Clip (FB33): www.clarkdietrich.com.
3. Flexible Wood Backing: Fire-retardant-treated wood with sheet steel connectors.
    a. Products:
        1) ClarkDietrich; Danback: www.clarkdietrich.com.

2.02 BOARD MATERIALS

A. Manufacturers - Gypsum-Based Board: Note: No offshore produced gypsum board allowed.
1. American Gypsum Company: www.americangypsum.com.
2. Certainteed Gypsum Inc.: www.certainteed.com.
3. Georgia-Pacific Gypsum: www.gpgypsum.com.
4. National Gypsum Company: www.nationalgypsum.com.
5. USG Corporation: www.usg.com.
6. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
    a. Mold resistant board is required restrooms and kitchens.
3. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
4. Thickness:
    a. Vertical Surfaces: 5/8 inch.
5. Paper-Faced Products:
    a. American Gypsum Company; FireBloc Type X Gypsum Wallboard: www.americangypsum.com.
    b. American Gypsum Company; FireBloc Type C Gypsum Wallboard: www.americangypsum.com.

c. CertainTeed Corporation; Type X Drywall: www.certainteed.com.
d. Georgia-Pacific Gypsum; ToughRock: www.gpgypsum.com.
e. Gold Bond Building Products, LLC provided by National Gypsum Company; Gold Bond Fire-Shield Gypsum Board: www.goldbondbuilding.com.
f. USG Corporation; Sheetrock Brand Firecode X Panels 5/8 in. (15.9 mm): www.usg.com.
g. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

6. Mold-Resistant, Paper-Faced Products:
a. American Gypsum Company; M-Bloc: www.americangypsum.com.
b. American Gypsum Company; M-Bloc Type X: www.americangypsum.com.
c. CertainTeed Corporation; M2Tech 5/8" Type X Moisture & Mold Resistant Drywall: www.certainteed.com.
d. Georgia-Pacific Gypsum; ToughRock Mold-Guard: www.gpgypsum.com.
e. Georgia-Pacific Gypsum; ToughRock Fireguard X Mold-Guard: www.gpgypsum.com.
f. National Gypsum Company; Gold Bond XP Gypsum Board with Sporgard.
g. USG Corporation; Sheetrock Brand EcoSmart Panels Mold Tough Firecode X 5/8 in. (15.9 mm): www.usg.com.
h. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

C. Backing Board For Wet Areas: One of the following products:
1. Application: Surfaces behind tile in wet areas including other tile areas noted on drawings.
2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
3. ANSI Cement-Based Board: Non-gypsum-based; aggregated Portland cement panels with glass fiber mesh embedded in front and back surfaces complying with ASTM C1325.
a. Thickness: 1/2 or 5/8 inch as noted on drawings.
b. Products:
1) Custom Building Products: www.custombuildingproducts.com.
2) PermaBASE Building Products, LLC provided by National Gypsum Company; PermaBase Cement Board: www.goldbondbuilding.com.
3) Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

2.03 GYPSUM BOARD ACCESSORIES

A. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced. Thickness: 3 inch or as noted on Drawings.

B. Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do not use solvent-based non-curing butyl sealant.
1. Composition: Permanently tacky non-hardening butyl sealant.
2. Products:
a. Bostik Inc: www.bostik-us.com.
b. Franklin International, Inc.; GREENchoice Acoustical Smoke & Sound Sealant: www.titebond.com.
c. Pecora Corporation; AC-20 FTR Acoustical and Insulation Sealant: www.pecora.com.
d. BASF Construction Chemicals-Building Systems: www.buildingsystems.basf.com.
e. Tremco Global Sealants; Tremco Acoustical Sealant: www.tremcosealants.com.
f. Hilti, Inc.; CP 506 Smoke and Acoustical Sealant: www.us.hilti.com.
g. Hilti, Inc.; CP 605BoW Bottom-of-Wall Firestop Sealant: www.us.hilti.com.
h. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

C. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic, unless noted otherwise.
1. Corner Beads: Low profile, for 90 degree outside corners.
2. Wall Mounted Deflection Beads: Flexible gasket and bead with 1-1/8 inch flange.
a. Products:
1) Trim-Tex, Inc.; Wall mounted Deflection Bead 9220: www.trim-tex.com.
3. Edge Seal Bead: Use to seal around windows, doors, and where drywall butts up to a different wall materials. Gasket compresses upon installation to form a permanent seal and no sealant required. Do not install at acoustical wall perimeters.
a. Trim-Tex: Super Seal Tear Away L Bead.

4. Expansion Joints:
    a. Type: Accordian profile with factory-installed protective tape.
    b. Products:
        1) Trim-Tex, Inc; Hideaway Expansion: www.trim-tex.com.

D. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.
    1. Tape for Rated Assemblies: E-Z Taping System. For tightly butted vertical and horizontal gypsum board joints above ceilings in 1 and 2 hour wood or metal stud assemblies. Follow manufacturer's requirements.

E. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inches in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosion-resistant.

F. Screws for Fastening of Gypsum Panel Products to Steel Members from 0.033 to 0.112 inch in Thickness: ASTM C954; steel drill screws, corrosion-resistant.

G. Anchorage to Substrate: Tie wire, nails, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in place.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

3.02 FRAMING INSTALLATION

A. Metal Framing: Install in accordance with ASTM C1007AISI S220 and manufacturer's instructions.

B. Studs: Space studs 16 inches on center unless called out otherwise or required by panel manufacturer's requirements (such as for curved walls).
    1. Extend partition framing to structure in all locations. Install slip track at structure as detailed on drawings.
    2. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.

C. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.

D. Top of Wall: Coordinate installation of required top of wall firestopping or sound control materials.

E. Blocking: Install wood blocking or mechanically fastened steel sheet for support of:
    1. Framed openings.
    2. Wall-mounted cabinets.
    3. Plumbing fixtures.
    4. Toilet partitions.
    5. Toilet accessories.
    6. Wall-mounted door hardware.
    7. Owner Furnished Owner Installed wall hung items including but not limited to visual display boards and monitors.

3.03 ACOUSTIC ACCESSORIES INSTALLATION

A. Acoustic Insulation in Non-Fire-Rated Construction: seal around all penetrations by conduit, pipe, ducts, and rough-in boxes. Tape oversized piece of 2 inch sound blanket over backside of boxes. See plans for additional instruction. Seal pipe and conduit penetrations with acoustical sealant backed with backer rod or acoustic insulation. Follow manufacturer's recommendations for control of annular space. HVAC contractor responsible for sound attenuation controls in duct work.

B. Acoustic Sealant: Install in accordance with manufacturer's instructions. and according to directions on plan.
    1. Place one bead continuously on substrate before installation of perimeter framing members.

2. Place continuous bead at perimeter of each layer of gypsum board.
3. Seal around all penetrations by conduit, pipe, ducts, and rough-in boxes, except where firestopping is provided.
4. Follow rating requirements for fire rated walls that are sound walls as well. Firestopping contractor shall install required materials at rated walls.

3.04 BOARD INSTALLATION

A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.

B. Single-Layer Nonrated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.
   1. Exception: Tapered edges to receive joint treatment at right angles to framing.

C. Fire-Resistance-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.

D. Cementitious Backing Board: Install over steel framing members where indicated, in accordance with ANSI A108.11 and manufacturer's instructions.

E. Installation on Metal Framing: Use screws for attachment of gypsum board except face layer of nonrated double-layer assemblies, which may be installed by means of adhesive lamination.

3.05 INSTALLATION OF TRIM AND ACCESSORIES

A. Control joint placement indicated is an industry recommended minimum. Follow manufacturer and industry location and detail recommendations. Review project plans and consult with A/E to confirm appropriate joint placement.

B. Control Joints: Place control joints consistent with lines of building spaces and as follows:
   1. Not more than 30 feet apart on walls and ceilings over 50 feet long.
   2. Install continuous from each door jamb to top of partition.
   3. At wings of "L', "U", and "T" shaped ceilings.
   4. Control joints in rated walls shall be constructed to meet tested assemblies.
   5. All control joints shall have double studs located behind them.

C. Corner Beads: Install at external corners, using longest practical lengths.

D. Edge Trim: Install at locations where gypsum board abuts dissimilar materials and as indicated.

3.06 JOINT TREATMENT

A. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
   1. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
   2. Level 3: Walls to receive textured wall finish.
   3. Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.
   4. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.
   5. Level 0: Temporary partitions.

B. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
   1. Feather coats of joint compound so that camber is maximum 1/32 inch.
   2. Taping, filling, and sanding are not required at surfaces behind adhesive applied ceramic tile and fixed cabinetry.
   3. Taping, filling, and sanding are not required at base layer of double-layer applications.

C. Fill and finish joints and corners of cementitious backing board as recommended by manufacturer.

3.07 TOLERANCES

A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.

END OF SECTION

SECTION 10 14 00

SIGNAGE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Types of Signs
   1. Brushed Stainless Steel Logo
   2. Cast Aluminum Donor Plaque
   3. Brushed Stainless Steel Custom Letter Set
   4. Back Lit Logo Panel
   5. Legacy Panel
   6. Didactic Panel
   7. Innovation Panel
   8. Stainless Steel Cable Display
   9. Stainless Steel Floor Mounted Information Display
   10. Halftone Art on Aluminum Panel

B. Exhibit A - Monument Concepts: See the exhibit appended to the end of this section.

C. Exhibit B - Exterior Sign Concepts: See the exhibit appended to the end of this section.

D. Exhibit C - Interior Sign & Display Concepts: See the exhibit appended to the end of this section.

1.02 REFERENCE STANDARDS

A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.

B. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

C. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

1.03 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: Manufacturer's printed product literature for each type of sign, indicating sign styles, font, foreground and background colors, locations, overall dimensions of each sign.
   2. Signage Schedule: Provide information sufficient to completely define each sign for fabrication, including room number, room name, other text to be applied, sign and letter sizes, fonts, and colors.
      a. When room numbers to appear on signs differ from those on drawings, include the drawing room number on schedule.
      b. Submit for approval by Owner through Architect prior to fabrication.

D. Review Submittals - Samples:
   1. Samples: Submit two samples of each type of sign, of size similar to that required for project, illustrating sign style, font, and method of attachment.
   2. Selection Samples: Where colors are not specified, submit two sets of color selection charts or chips.
   3. Verification Samples: Two full size samples, representing type, style and color specified including method of attachment for signage.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Package signs as required to prevent damage before installation.

B. Package room and door signs in sequential order of installation, labeled by floor or building.

PART 2 PRODUCTS

2.01 SCHEDULE

A. See schedule on sheets A200 and A210 for product Identification and requirements.

2.02 EXHIBITS

A. See exhibits attached to this section for additional descriptions of signage.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install neatly, with horizontal edges level.

C. Locate signs and mount at heights indicated on drawings and in accordance with ADA Standards and ICC A117.1.

D. Protect from damage until Date of Substantial Completion; repair or replace damaged items.

END OF SECTION

WTC - INNOVATION CENTER

Monument Concepts

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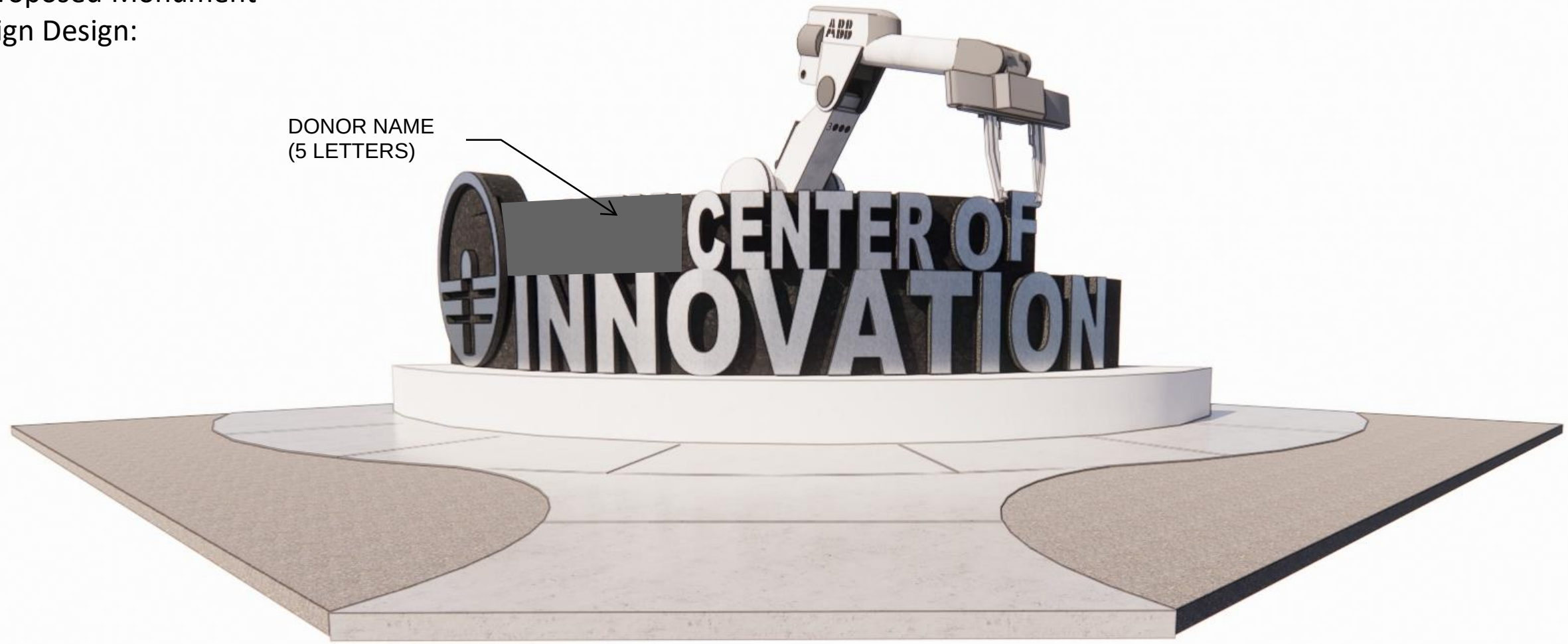
Proposed Monument Sign Design:



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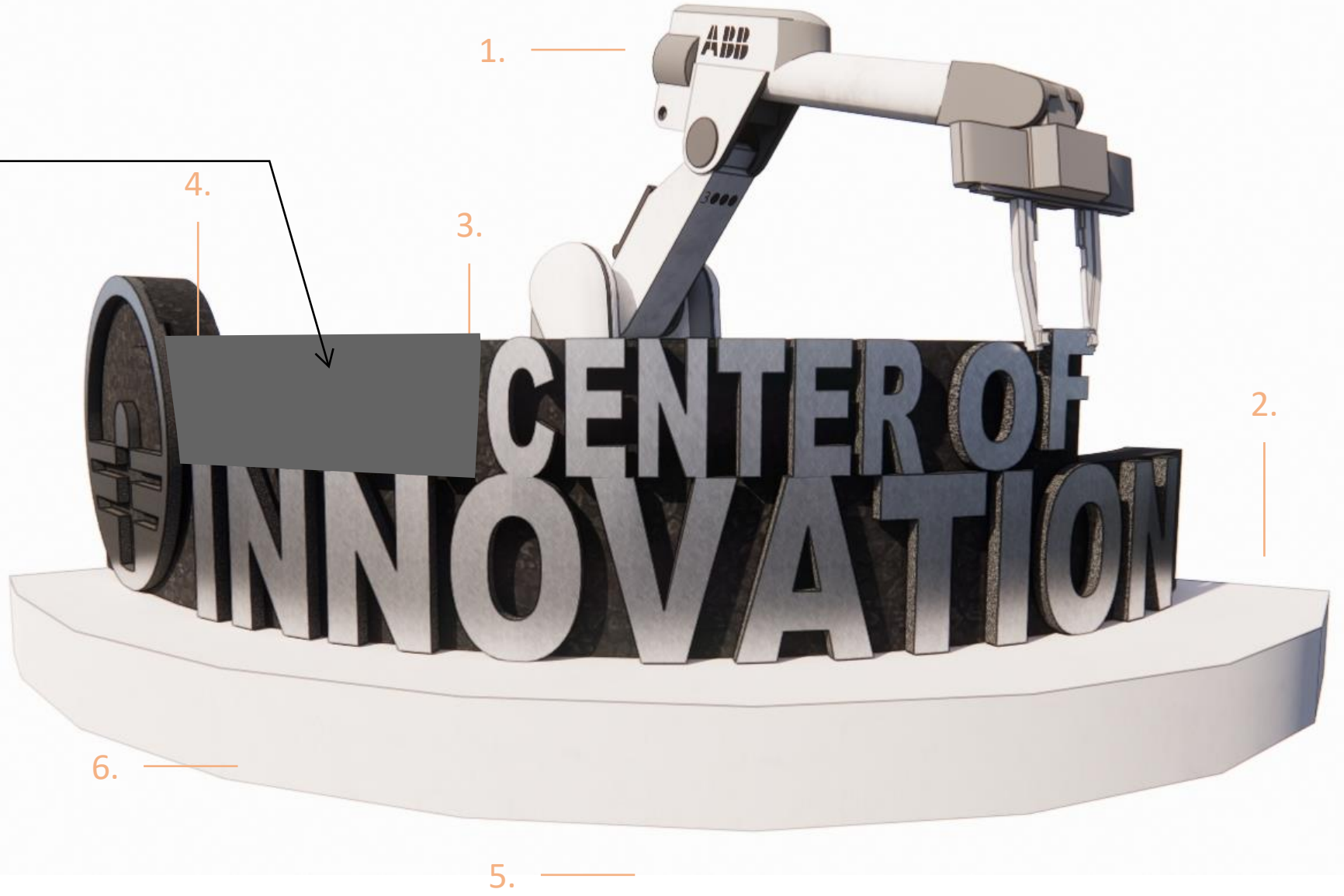
Proposed Monument Sign Design:

DONOR NAME
(5 LETTERS)

1. Owner supplied robot arm on contractor supplied base
2. Curved White concrete base at bench height
3. Curved Black concrete support wall for mounting sign letters
4. Cast Concrete letters with honed stainless-steel faces, reinforced with stainless steel and fiberglass mesh and modified polymers
5. Scope to include lighting, landscaping and sidewalk design
6. All concrete to be sealed



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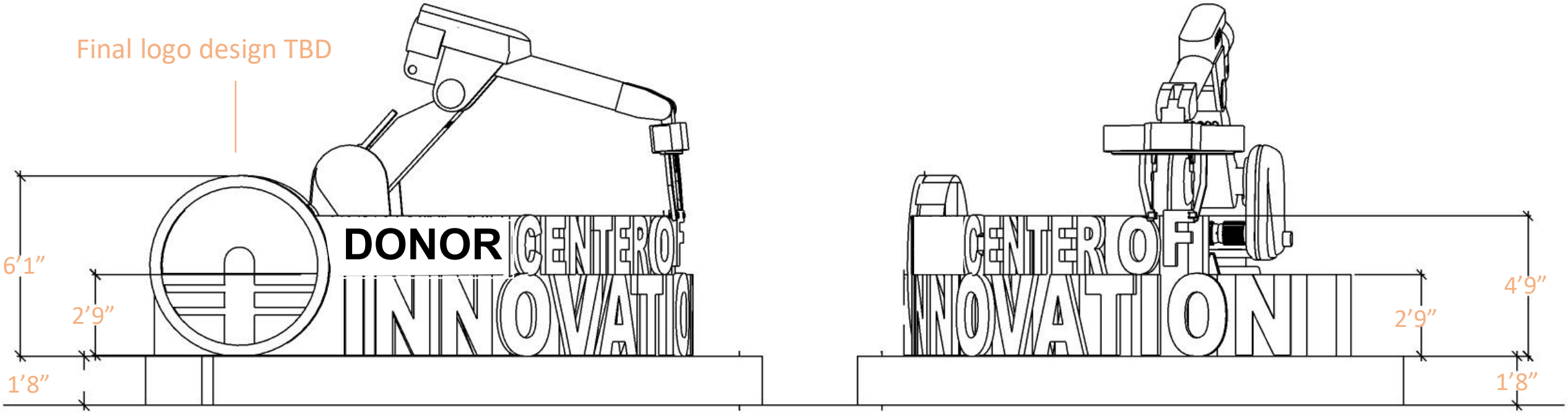
Proposed Monument
Estimated Dimensions:



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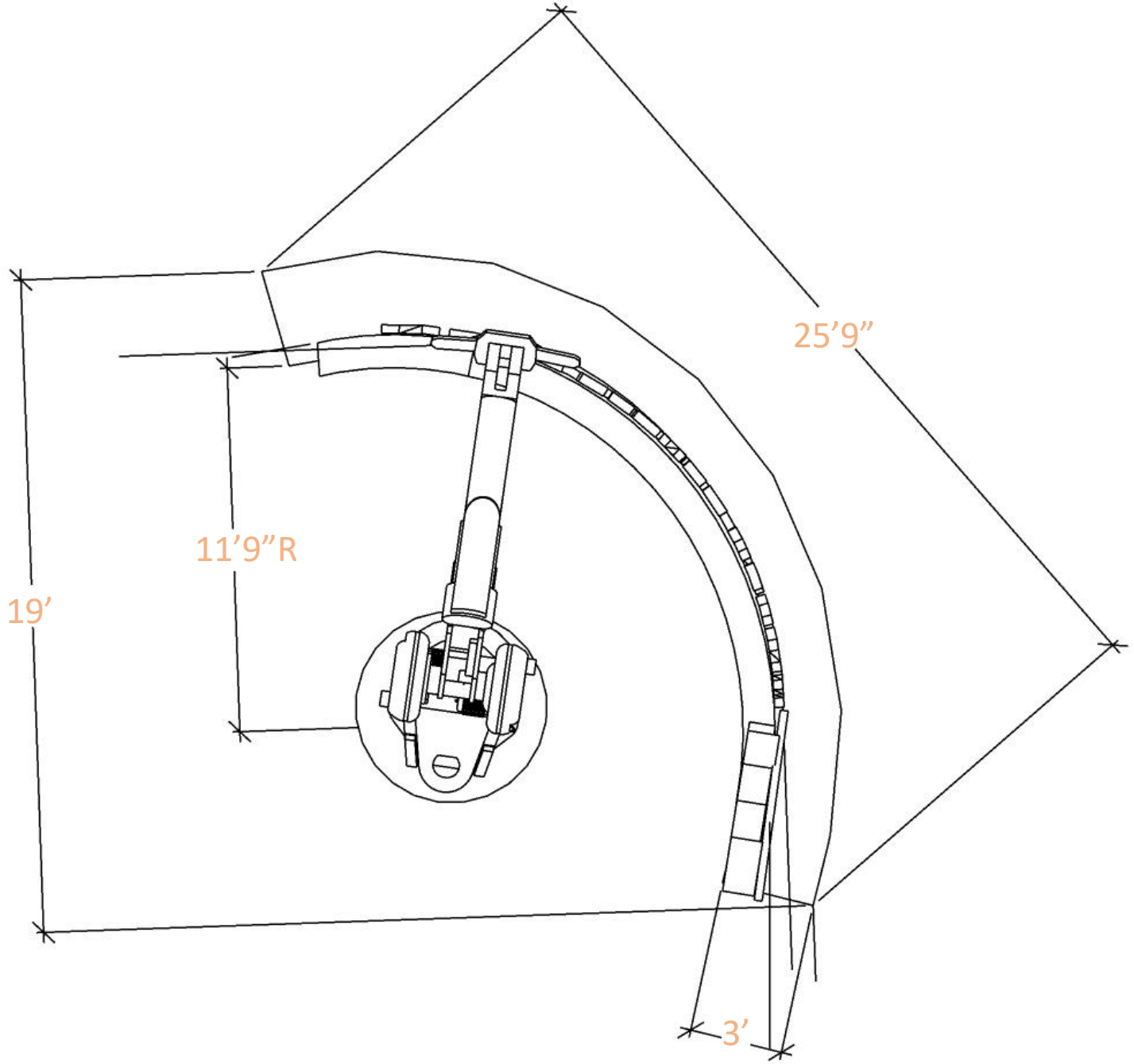
Proposed Monument Estimated Dimensions:



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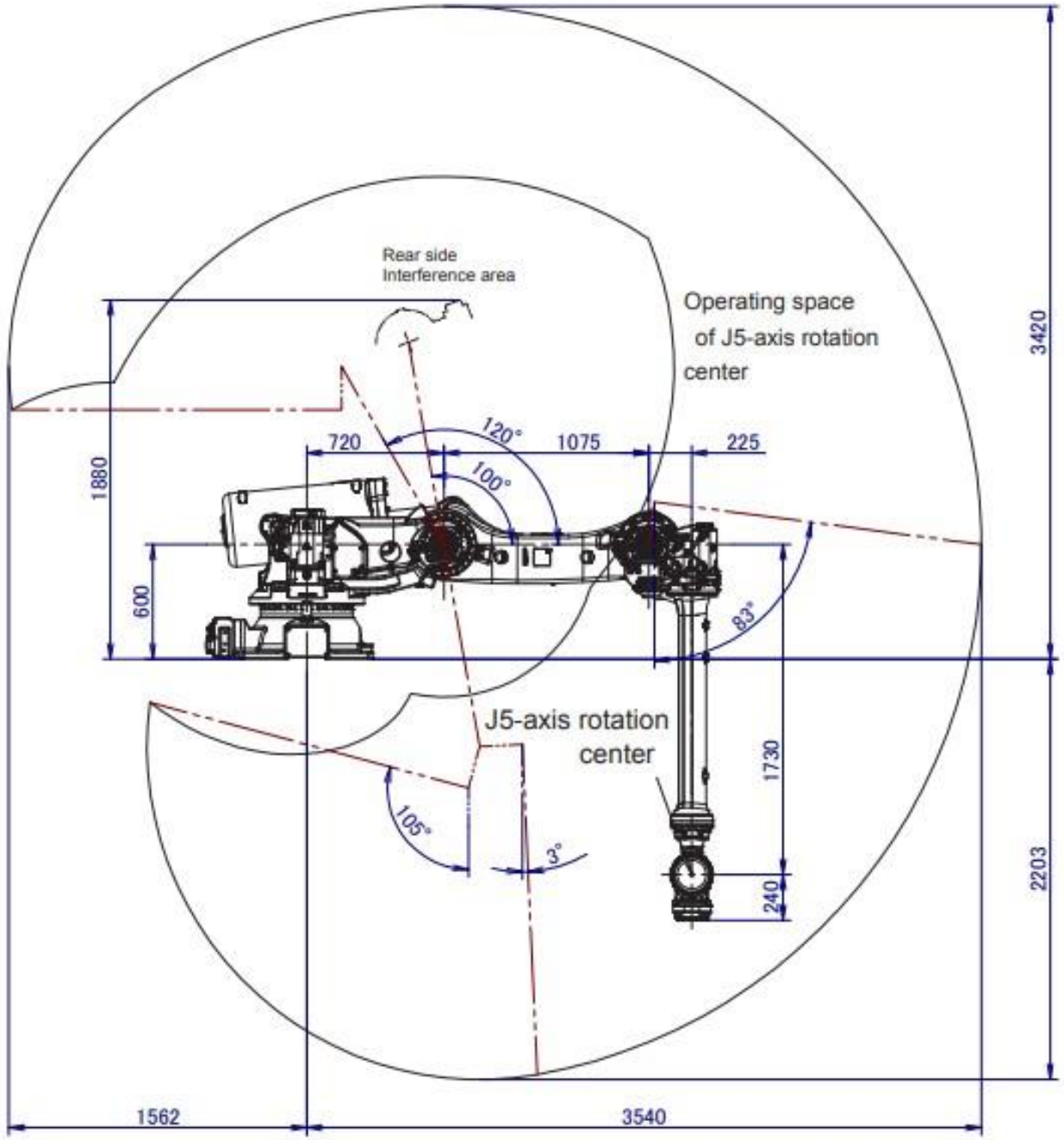
Proposed Monument
Actual Robot Dimensions:



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Proposed Monument
Actual Robot Photo:

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WTC – Innovation Center

Exterior Sign Concepts

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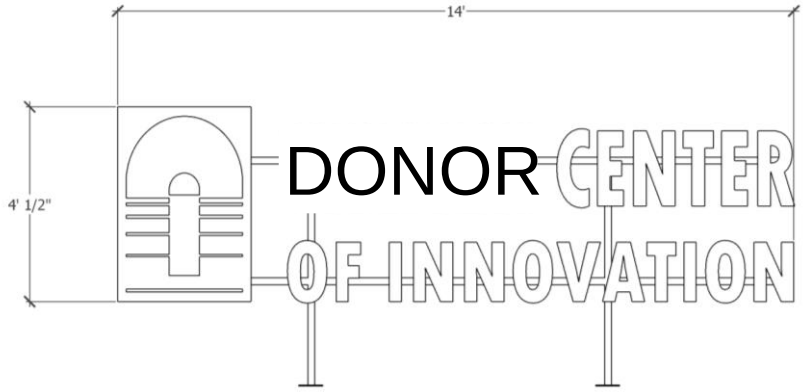
Proposed Signage
South Entry:

Brushed Stainless steel logo and custom letter set with 3” returns mounted to Powder Coat aluminum support frame.

Design-build with shop drawings approved prior to fabrication.

Logo vector file to be supplied by owner.



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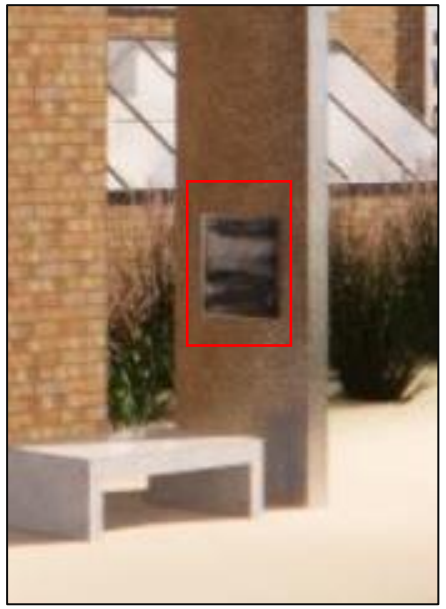
Proposed Signage
Donor Plaques:

Cast aluminum donor plaque 18”x24”
Cast of 514 Alloy

Text and images to be supplied by owner.



North location

South location

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Proposed Signage
Southeast Corner:

Design-build.
Brushed Stainless steel logo with 2” returns, stud mounted to brick.
Face of logo to receive flat cut half inch aluminum letters with black anodized finish.

Logo vector file to be supplied by owner.

Shop drawings to be owner approved prior to fabrication.

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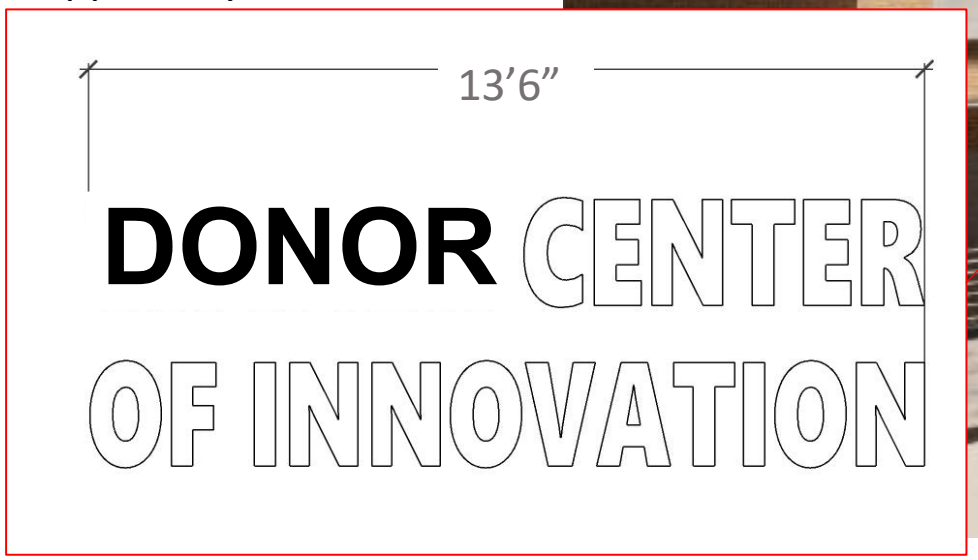
Proposed Signage
North Building Sign:

Brushed Stainless steel custom letter set with 2” returns, stud mounted to brick.

Design-build with shop drawings approved prior to fabrication.
Logo vector file to be supplied by owner.



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Proposed Signage
Back lit logo, North Entry:

Design-build 13’6 x 18’6”
Back Lit logo panel.

Brushed stainless steel cabinet housing LED lights, to be mounted to brick. Power supplied by owner.

Logo vector file and final pattern to be supplied by owner. shop drawings to be approved prior to fabrication.

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WTC - INNOVATION CENTER

Interior Sign & Display Concepts

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Proposed Signage
Potential Legacy and Ashley Innovation Items:

1. Legacy Panel
2. Didactic Panel
3. Innovation Panel
4. Cable Display – Ashley Innovation
5. Cable Display- Legacy/Foundation
6. Floor Mounted Display
7. Legacy Panel
8. Didactic Panel
9. Cable Display – Ashley Innovation
10. Floor Mounted Display
11. Etched metal wall art
12. Etched metal wall art
13. Option - Aluminum wall sculpture
14. Option - Aluminum wall sculpture
15. Option - Floor mounted statuary
16. Option - 3D example – Innovation
17. Option - 3D example – Innovation

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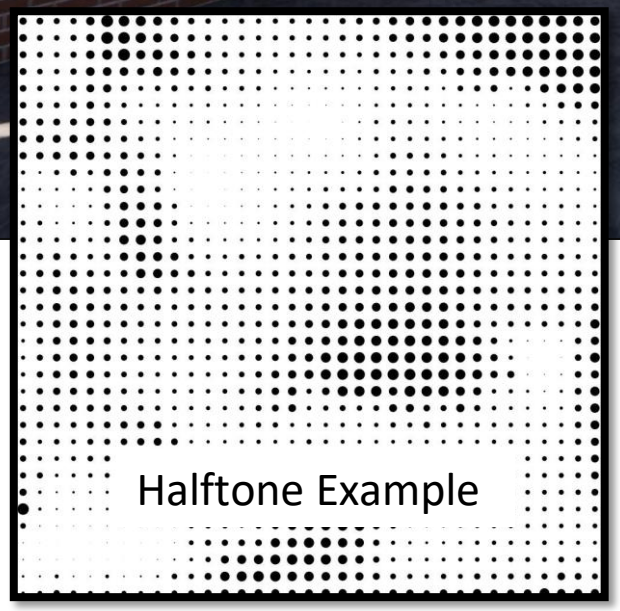
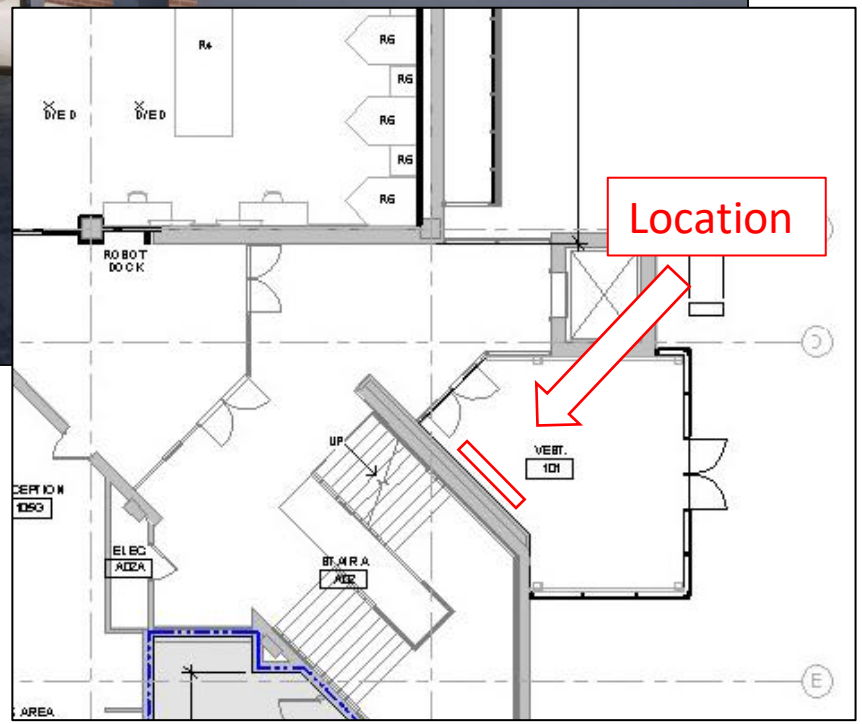
Proposed Signage South Tower Entry:

Design-build

1. Legacy Panel 60”x120” Halftone technique on etched Aluminum Panel with black anodized aluminum frame. Mounted with French Cleats.
2. Didactic Panel 60”x24” tooled aluminum with black lettering and black anodized frame. Mounted with French Cleats.





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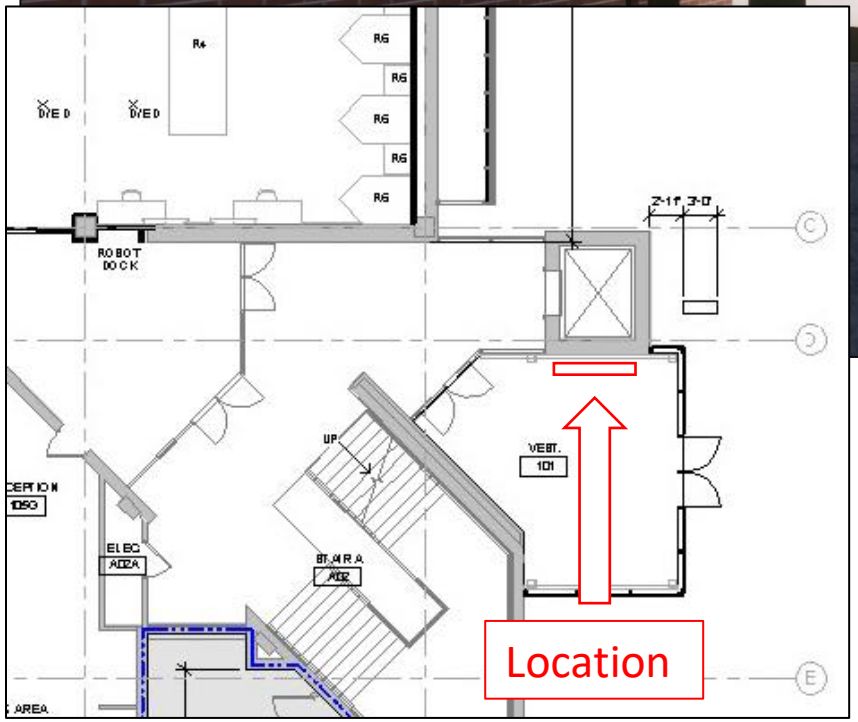
Proposed Signage South Tower Entry:

Design-build

3. Innovation Panel 60”x84” Halftone technique on etched Aluminum Panel with black anodized aluminum frame. Mounted with French Cleats.
4. Stainless Steel Cable Display 96”x60” suspending etched aluminum panels.



Cable Example

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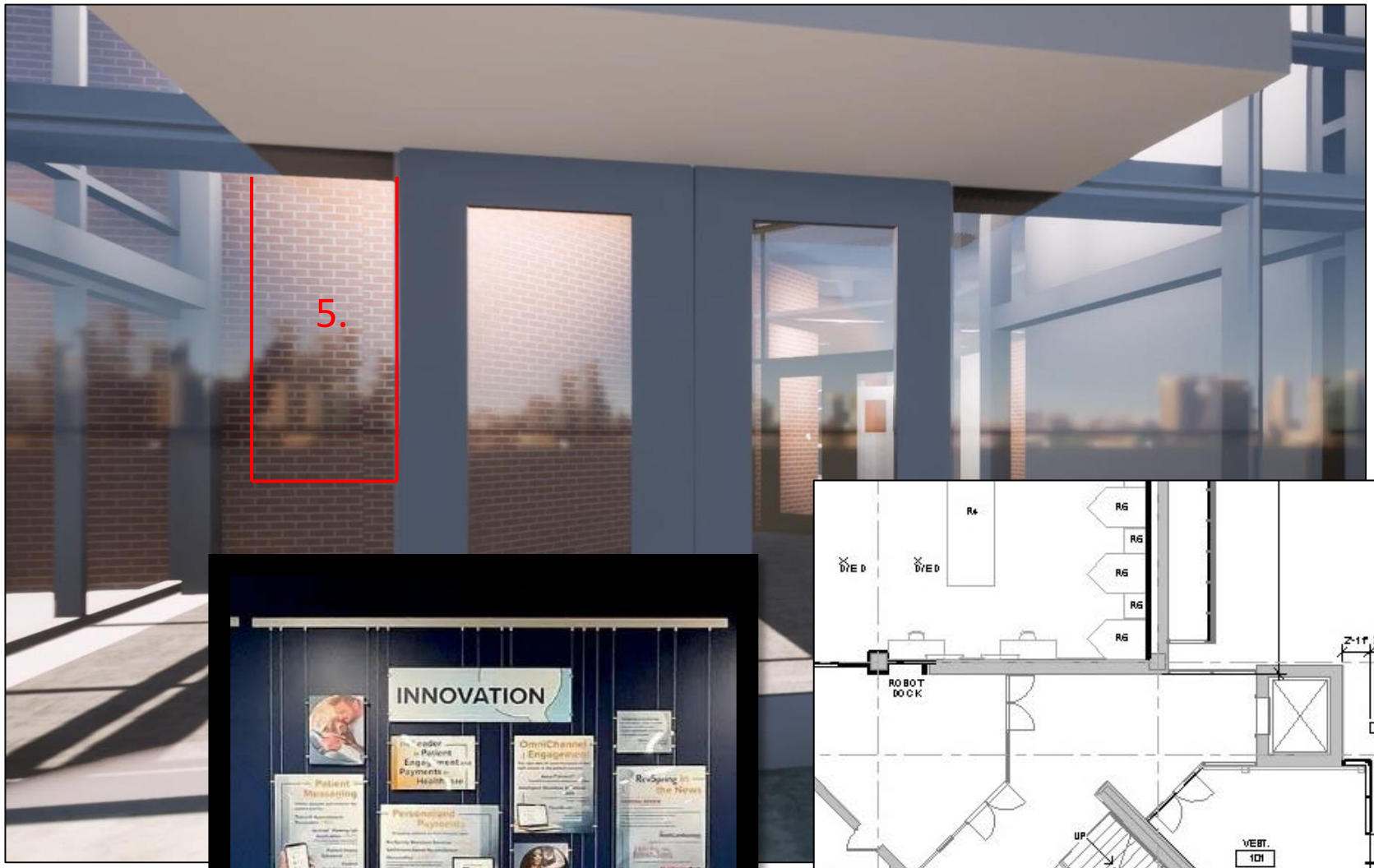
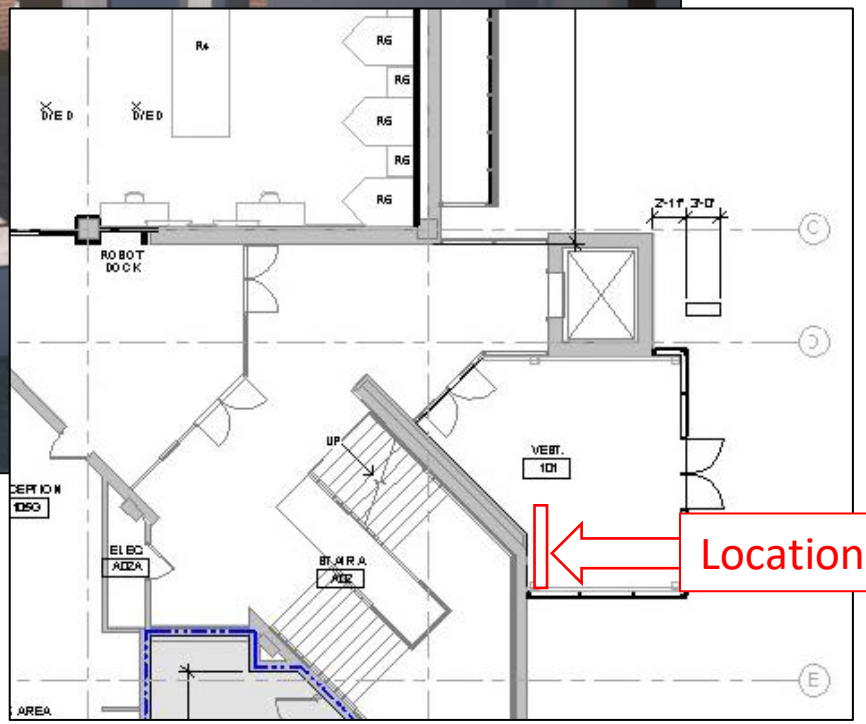
Proposed Signage South Tower Entry:

Design-build

5. Stainless Steel Cable Display 84”x192” suspending etched aluminum panels.

Cable Display Example





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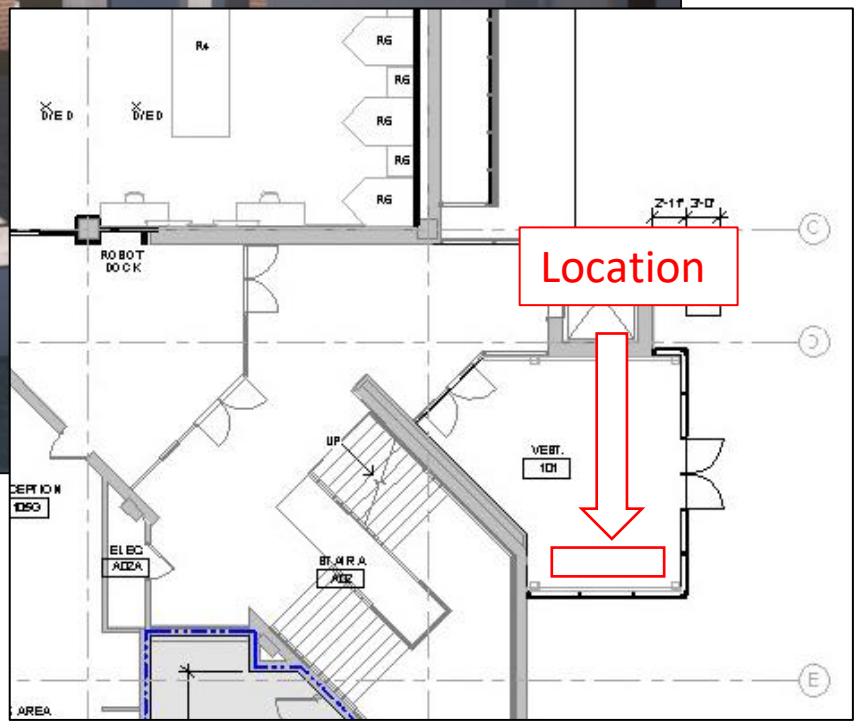
Proposed Signage
South Tower Entry:

<u>Design-build</u>

6. Stainless Steel Floor Mounted Information Display 84”x24”x36”.



Stainless Display Example

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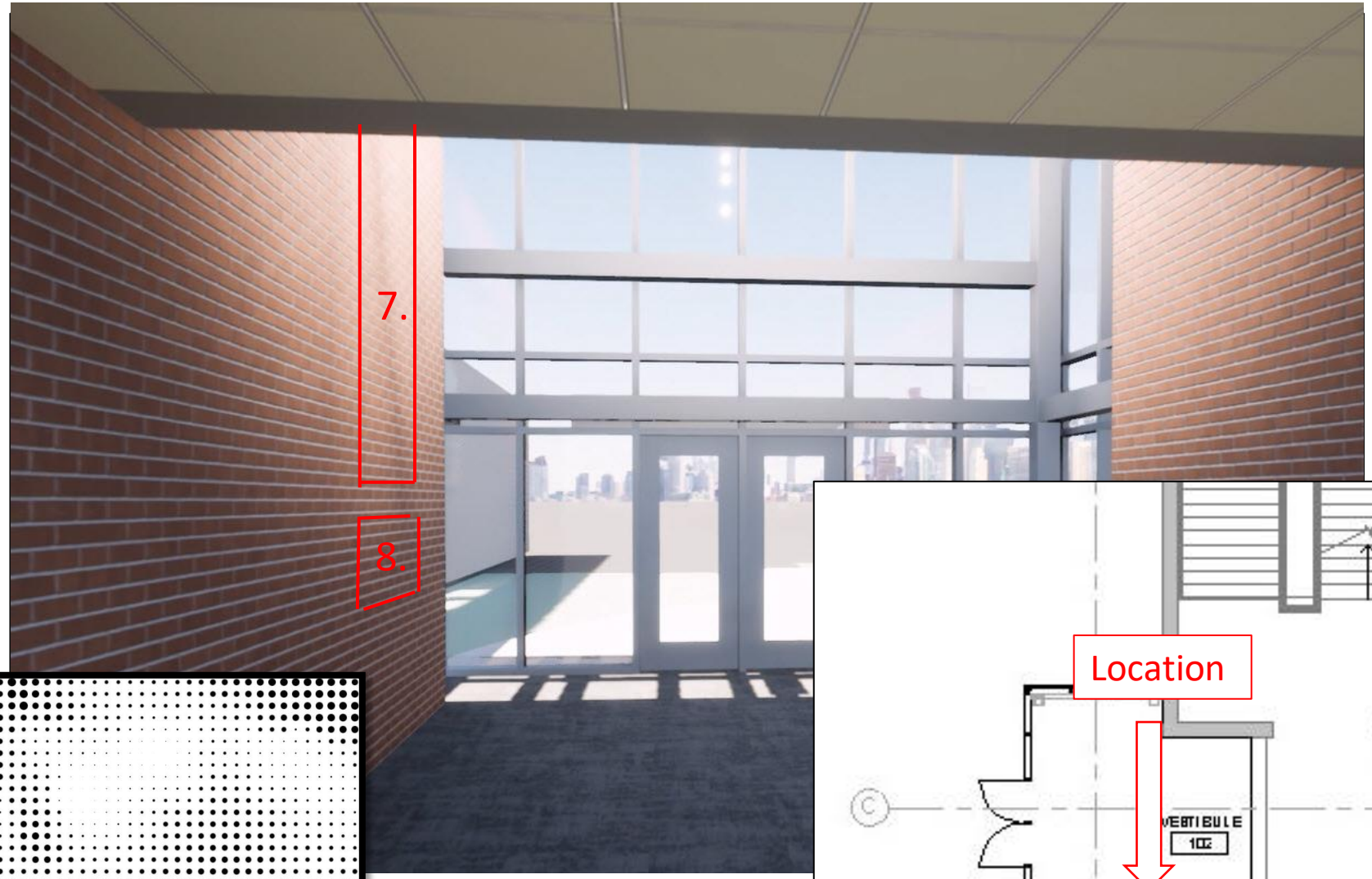
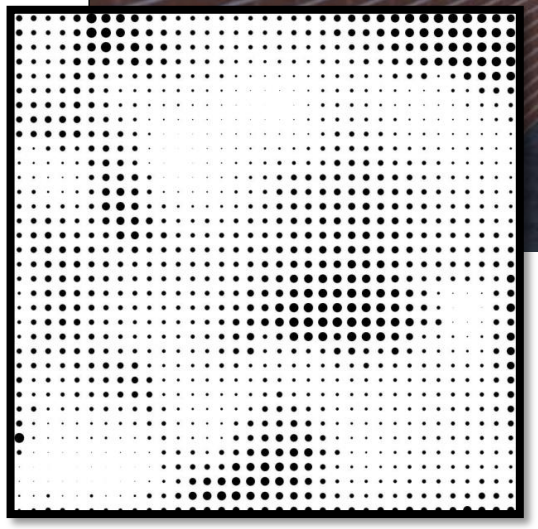
Proposed Signage North Tower Entry:

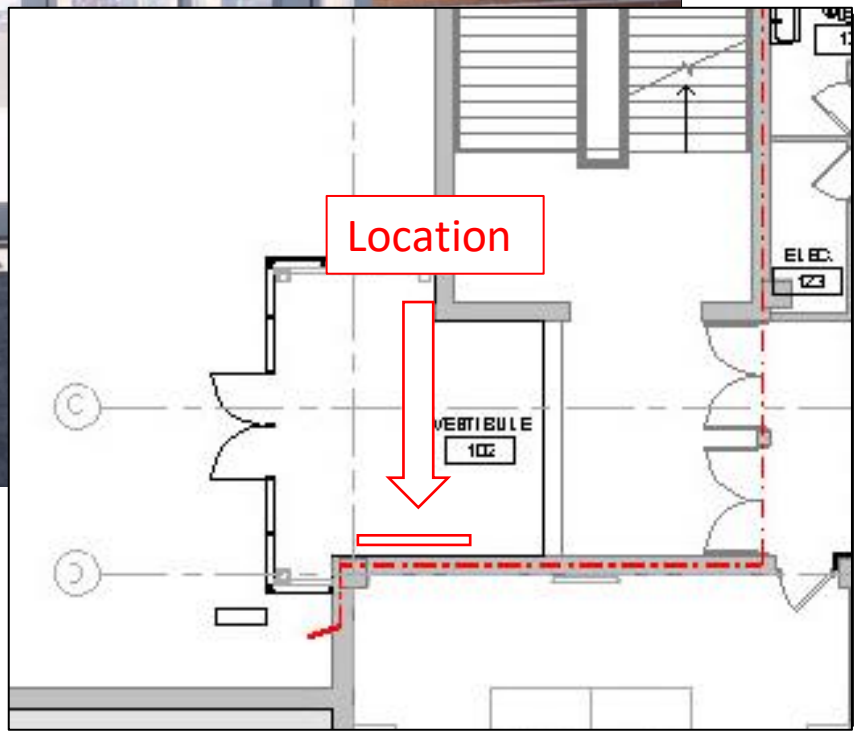
Design-build

7. Legacy Panel 60”x120” Halftone technique on etched Aluminum Panel with black anodized aluminum frame. Mounted with French Cleats.
8. Didactic Panel 60”x24” tooled aluminum with black lettering and black anodized frame. Mounted with French Cleats.





Halftone Example



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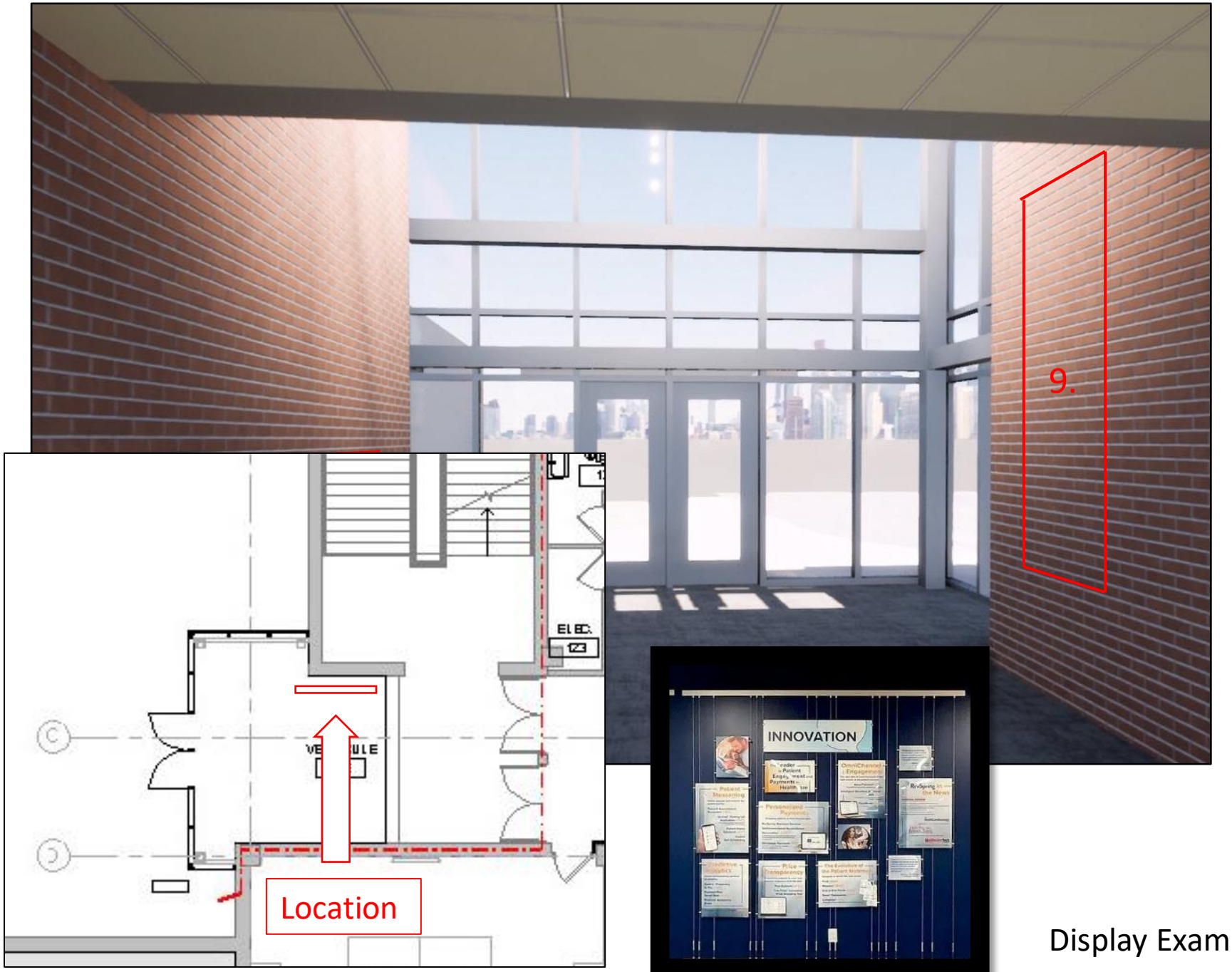
Proposed Signage North Tower Entry:

Design-build

9. Stainless Steel Cable Display 72”x96” suspending etched aluminum panels.



Display Example

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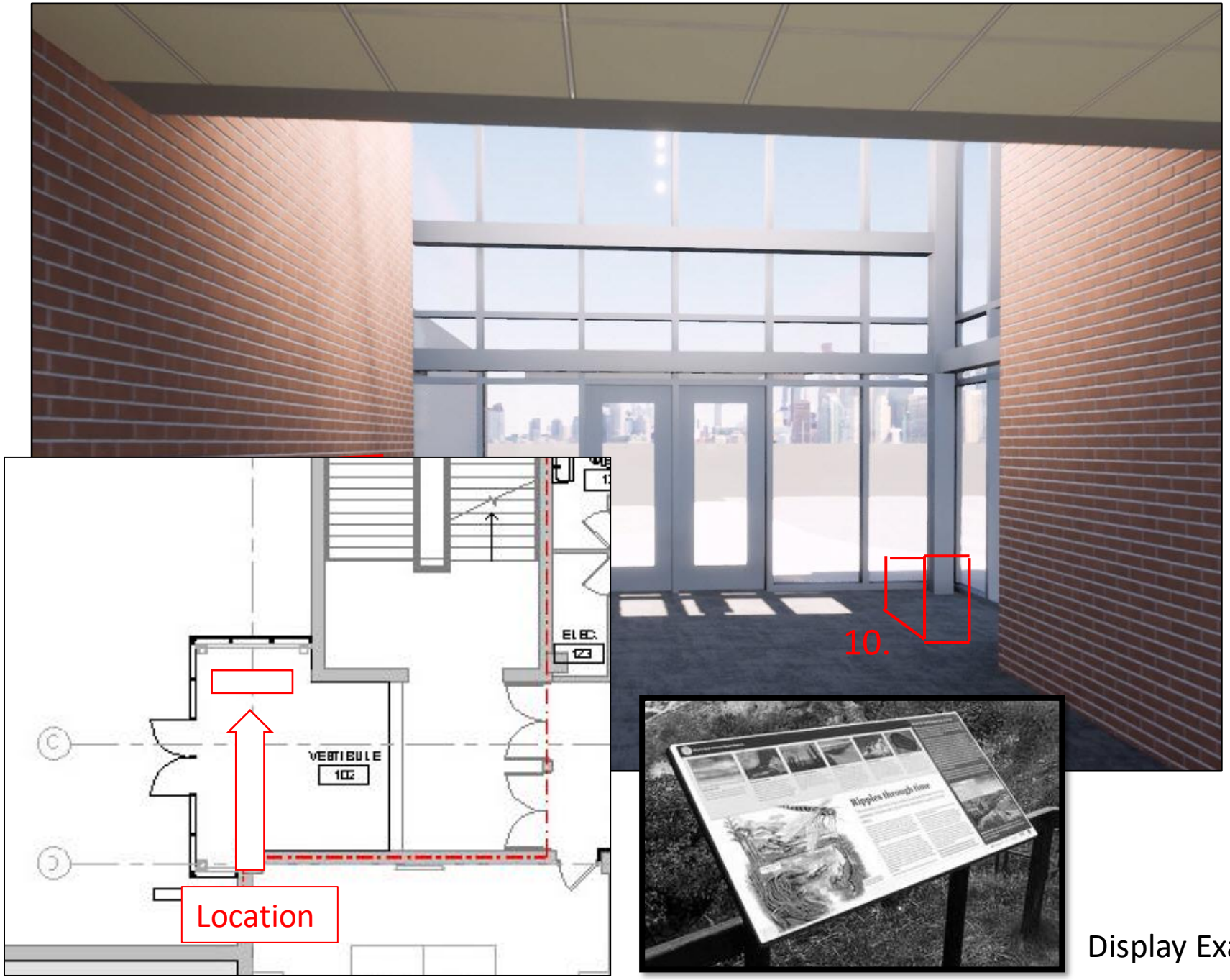
Proposed Signage North Tower Entry:

Design-build

10. Stainless Steel Floor Mounted Information Display 72”x24”x36”.



Display Example

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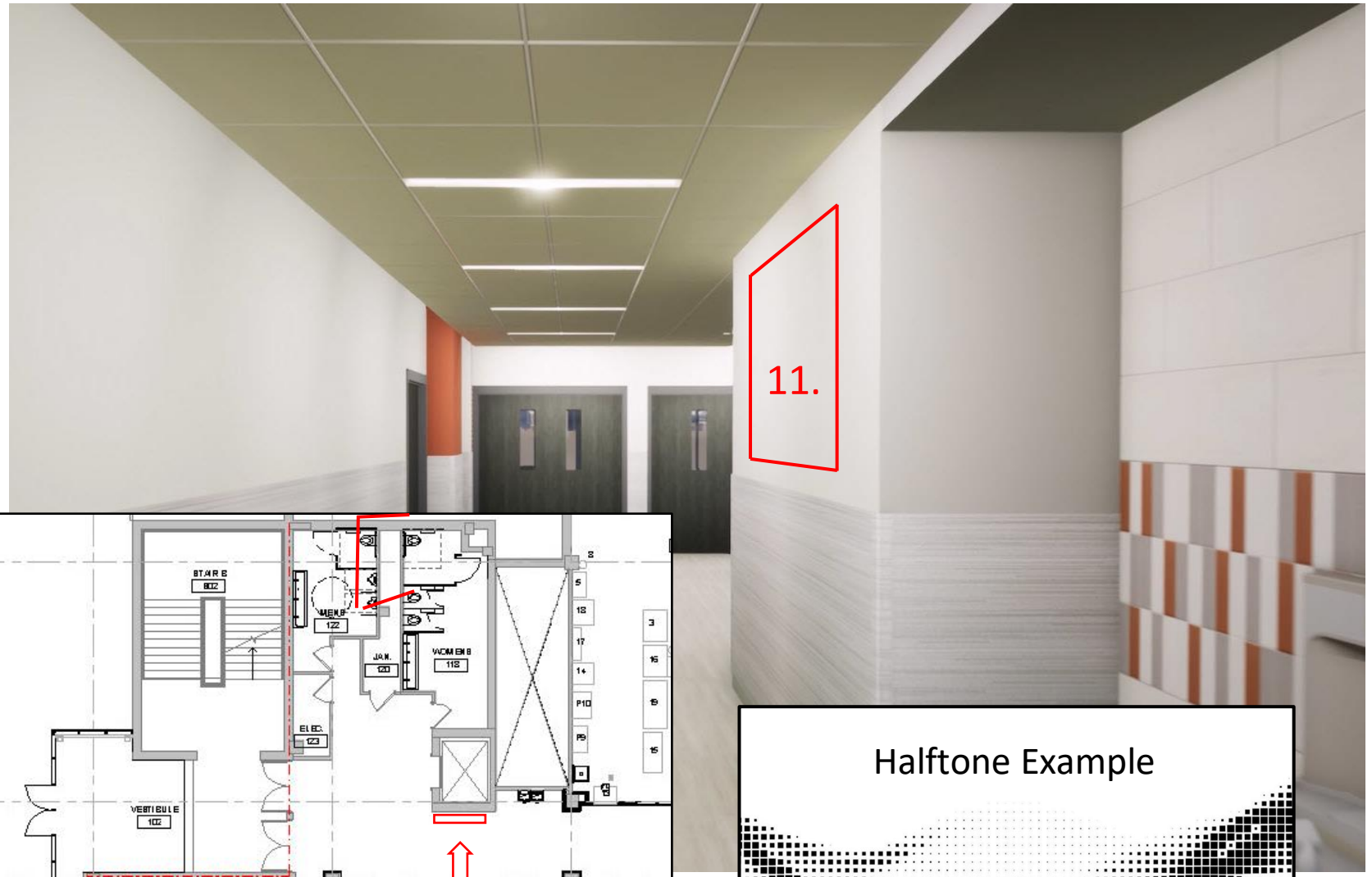
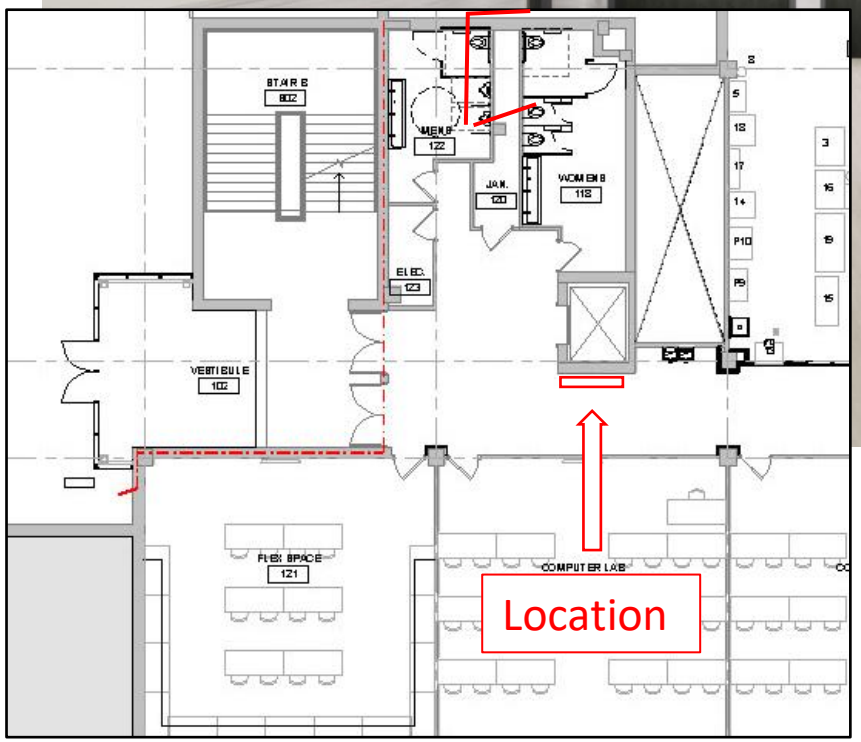
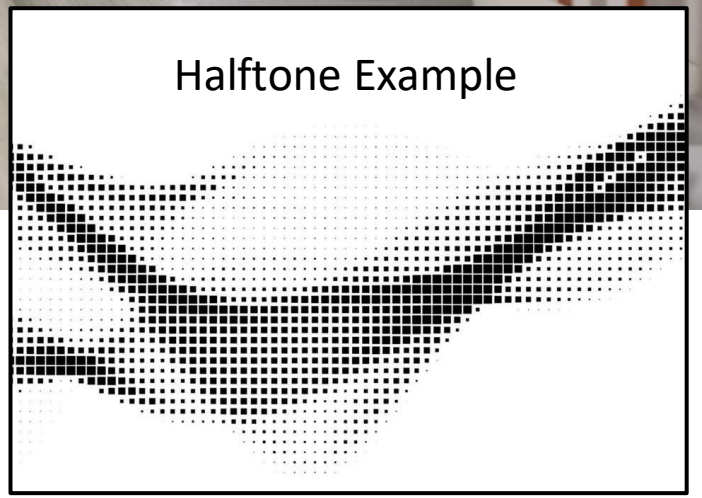
Proposed Signage First Foor Hall:

Design-build

11. Halftone art on aluminum panel 72”x36” with 1.25” returns. Mounted with French Cleats.







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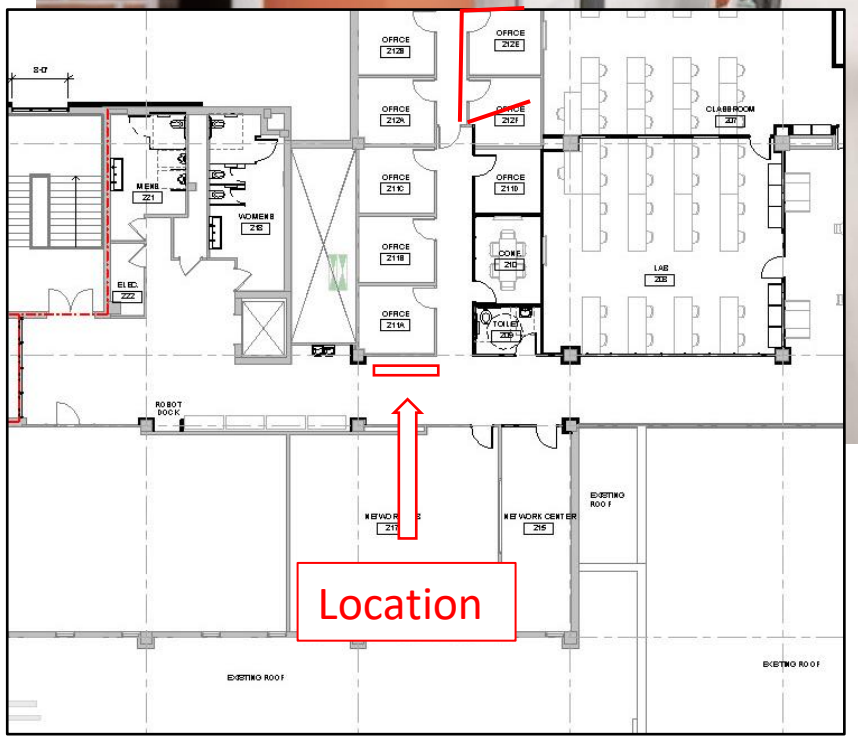
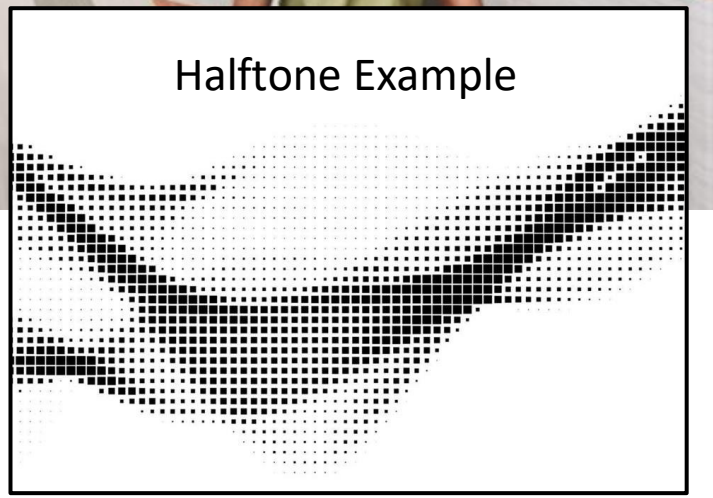
Proposed Signage Second Foor Hall:

Design-build

12. Halftone art on aluminum panel 72”x36” with 1.25” returns. Mounted with French Cleats





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1 SECOND FLOOR REMOVAL

1/8" = 1'-0"

REMOVAL GENERAL NOTES:

A. ALL ITEMS SHOWN DASHED ON DEMOLITION PLANS SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE NOTED. REFERENCE MEP DRAWINGS FOR APPLICABLE EQUIPMENT REMOVALS AND MODIFICATIONS. COORDINATE PATCHING AT EQUIPMENT REMOVALS.

B. AT WALL TYPES/MATERIALS: PREPARATION FOR NEW FINISHES SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL OF EXISTING FINISHES, TAPES, GLUES/MASTIC, NAILS AND RELATED ITEMS. PATCHING OF HOLES, INDENTATIONS AND CRACKS FOR AN ACCEPTABLE SURFACE FOR NEW FINISH INSTALLATION.

C. OWNER WILL REMOVE LOOSE FURNISHINGS AND EQUIPMENT FROM THE WORK AREA PRIOR TO START OF CONSTRUCTION.

D. MAINTAIN ALL EXIT DOORS AND CORRIDORS IN UNOBSTRUCTED OPERABLE CONDITION WITH SAFE PASSAGE AWAY FROM THE BUILDING.

E. ROOM NUMBERS ARE SHOWN ON THIS PLAN FOR INFORMATIONAL AND COORDINATION PURPOSES ONLY.

F. COORDINATE STORAGE LOCATIONS FOR SALVAGED ITEMS WITH OWNER.

G. PROVIDE FLOOR PROTECTION AS SPECIFIED AT DEBRIS REMOVAL PATHS THROUGH BUILDING.

H. ALL REMOVED DOOR HARDWARE SHALL BE TURNED OVER TO THE OWNER.

I. THERE WILL BE 21 OFFICES THAT HAVE FURNITURE LEFT IN THEM THE CONTRACTOR WILL NEED TO DISPOSE OF - THEY WILL BE MARKED FOR REMOVAL.

A02

REMOVAL PLAN LEGEND:

SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET

REMOVE ITEMS NOTED WITH DASHED LINES

SYMBOL INDICATES REMOVAL OF DOOR AND FRAME UNLESS NOTED OTHERWISE

REMOVAL KEY NOTES

1	REMOVE EXISTING STUD PARTITION AND GYP. BOARD WALL FINISH
2	REMOVE EXISTING DOOR AND FRAME, INCLUDING SIDELIGHT & TRANSOM WINDOW WHERE APPLICABLE. ALL LOCKSETS TO BE SALVAGED BACK TO OWNER.
3	REMOVE EXISTING ALUM CLAD WOOD WINDOW
4	CREATE OPENING IN EXISTING MASONRY WALL FOR NEW DOOR/WINDOW. OVERSIZE DEMOLISHED OPENING AS REQUIRED FOR INSTALLATION OF JAMB REINFORCING AND LINTEL - SEE STRUCTURAL DRAWINGS
5	CREATE OPENING IN EXISTING STUD PARTITION FOR NEW DOOR/OPENING. PATCH GYP. BOARD WALL FINISH TO MATCH ADJACENT
6	REMOVE EXISTING ALUM STOREFRONT/CURTAINWALL DOOR/WINDOW
7	REMOVE EXISTING CARPET/CARPET TILE FLOORING AND VINYL BASE
8	REMOVE EXISTING WALK-OFF CARPET
9	REMOVE EXISTING CERAMIC TILE FLOORING
10	REMOVE EXISTING VINYL FLOORING
11	REMOVE EXISTING RUBBER TILE FLOORING AND VINYL BASE
12	REMOVE EXISTING CASEWORK AND COUNTERTOP, SALVAGE FOR REUSE
13	REMOVE EXISTING SUSPENDED ACOUSTIC TILE CEILING SYSTEM.
14	REMOVE EXISTING METAL FRAMED GYP BOARD CEILING
15	REMOVE EXISTING PLAM/PLYWOOD OVER METAL FRAMING CEILING SOFFIT
16	REMOVE EXISTING CASEWORK
17	REMOVE EXISTING TILE WALL FINISH. REPAIR SUBSTRATE AS REQUIRED.
18	EXISTING PLUMBING FIXTURE AND RELATED PIPING TO BE REMOVED - SEE PLUMBING DRAWINGS
19	REMOVE EXISTING TOILET ACCESSORIES, INCLUDING TOILET PARTITIONS
20	EXISTING ELECTRIC WATER COOLER TO BE REMOVED, SALVAGE FOR REUSE.
21	REMOVE EXISTING METAL LOCKERS AND CONC BASE
22	EXISTING FIRE EXTINGUISHER REMOVED BY OWNER
23	REMOVE EXISTING STEEL COLUMN AND PRECAST CONC CLADDING - SEE STRUCTURAL
24	REMOVE EXISTING PRECAST CONC CANOPY FASCIA
25	REMOVE EXISTING CANOPY ROOF, INCLUDING SOFFIT, LIGHTING, STEEL FRAMING, FLASHING AND ROOF DRAIN. SEE STRUCTURAL.
26	EXISTING ELEVATOR TO BE REMOVED (BY OTHERS)
27	EXISTING BUILDING DIRECTORY REMOVED BY OWNER
28	EXISTING MARKERBOARD/TACKBOARD REMOVED BY OWNER
29	EXISTING DISPLAY CASE REMOVED BY OWNER
30	EXISTING PROJECTION SCREEN REMOVED BY OWNER
31	SAWCUT AND REMOVE EXISTING CONC FLOOR SLAB AT HATCHED AREA
32	EXISTING PLAZA PAVERS TO BE REMOVED, SALVAGE TO OWNER - SEE CIVIL
33	EXISTING SIDEWALK TO BE REMOVED - SEE CIVIL
34	REMOVE EXISTING WINDOW STOOL
35	REMOVE EXISTING SUSPENDED ACOUSTIC TILE CEILING AS REQUIRED FOR CONSTRUCTION OF NEW SOFFIT
36	REMOVE EXISTING FLOOR DRAIN COVER. EXISTING FLOOR DRAIN TO REMAIN.
37	REMOVE EXISTING ADA DOOR OPERATOR.
38	REMOVE EXISTING ADA DOOR OPERATOR AND SALVAGE FOR REINSTALLATION.
39	REMOVE EXISTING ACCESS DOOR AND SALVAGE FOR REINSTALLATION.
40	REMOVE EXISTING WALL MOUNTED DISPLAY
41	REMOVE EXISTING SFURNITURE

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 INNOVATION CENTER

Project Location: 405 8TH STREET NORTH LA CROSSE, WI

Sheet Title: REMOVAL SECOND FLOOR

HSR Project Number: 24003

Project Date: AUGUST 2024

Drawn By: HSR

Key Plan:

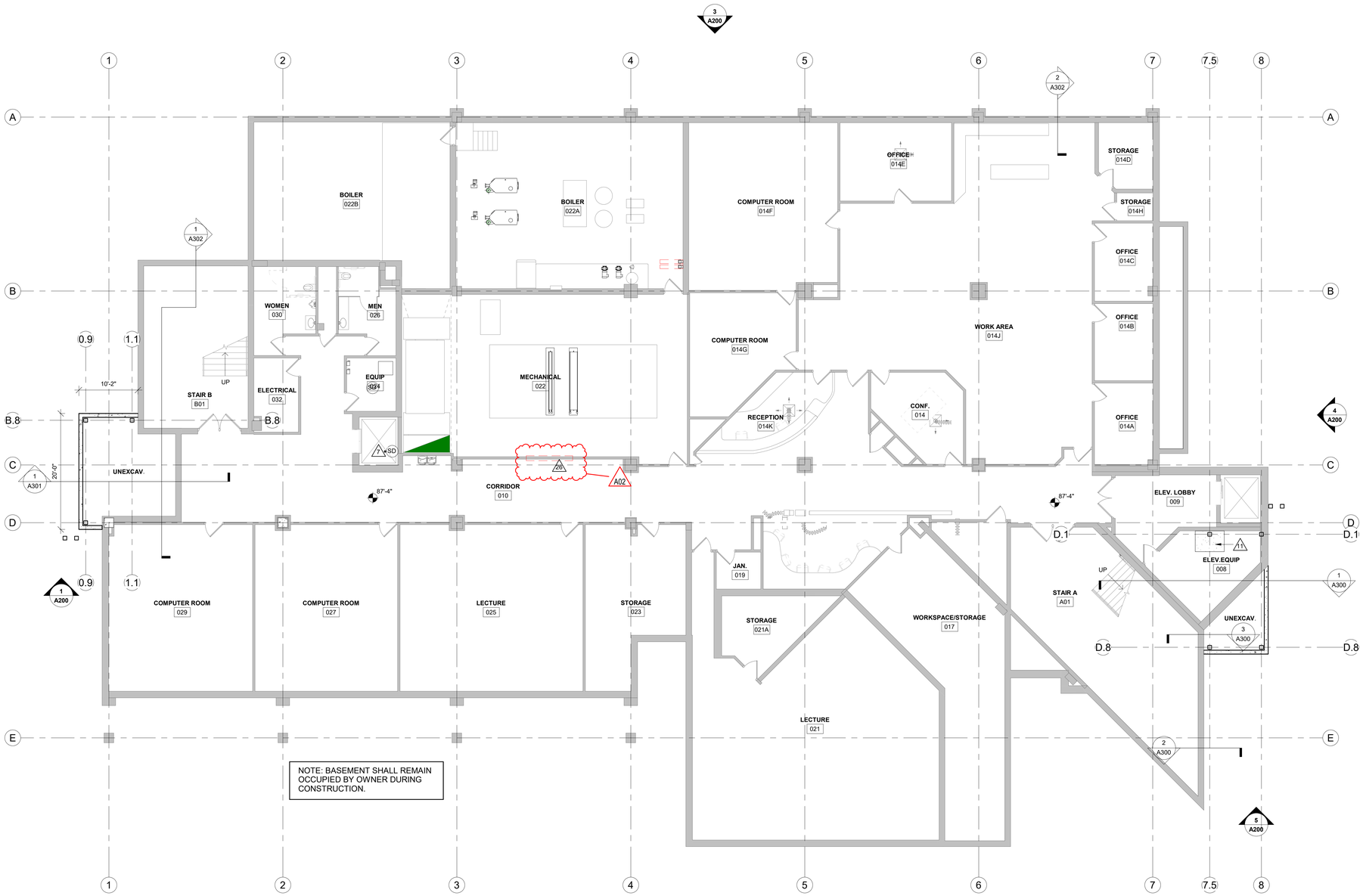
Revisions:

No.	Description	Date
A02	ADDENDUM #2	8-16-2024

Graphic Scale: 0" 2" 4" 8" 12"

Last Update: 8/16/2024 9:24:21 AM

A091



1 BASEMENT

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 AND WALL FINISH LAYOUTS.

C. LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.

D. FIXED EQUIPMENT IS SHOWN ON THIS PLAN FOR COORDINATION. SEE SHEETS **A101** FOR ALL EQUIPMENT NOTES.

E. UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" : 12" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS.

F. PAINT ALL EXPOSED STEEL LINTELS.

G. EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE.

H. SEE STRUCTURAL FOR SLAB CONTROL JOINTS.

I. GENERAL CONTRACTOR TO PROVIDE CONCRETE EQUIPMENT PADS/CURBS AS REQUIRED FOR MECHANICAL / ELECTRICAL EQUIPMENT- VERIFY SIZE, PROFILE & LOCATION WITH MECHANICAL / ELECTRICAL

J. VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.

K. PATCH AND PAINT AROUND OLD FIRE ALARM DEVICES THAT ARE REMOVED THROUGHOUT ENTIRE BUILDING - COORDINATE W/ ELEC. AND FIRE ALARM.

L. ALL EQUIPMENT IN EQUIPMENT SCHEDULE ON A101 WILL BE INSTALLED BY THE OWNER EXCEPT ITEMS IDENTIFIED WITH KEYNOTE 23.

A02

PLAN LEGEND:

(A) SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.

BL-# SYMBOL INDICATES BORROWED LITE TYPE. SEE SHEET A601 FOR BORROWED LITE FRAME ELEVATIONS.

SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET

1 HOUR WALL

PLAN KEY NOTES

1	BOLLARD - SEE CIVIL
2	SOLID SURFACE WINDOW STOOL
3	POST MOUNTED ADA POWER DOOR OPENER
4	PATCH WALL AT REMOVED PARTITION
5	INFILL OPENING AT REMOVE DOOR/FRAME. MATCH ADJACENT CONSTRUCTION AND FINISH.
6	FURNITURE N.I.C.
7	NEW ELEVATOR (BY OTHERS)
8	EXISTING WOOD DOOR SLAB TO BE RESTAINED - SEE DOOR SCHEDULE
9	ALT BID 7D: INTERIOR SIGNAGE - SEE A210 FOR SIGNAGE SCHEDULE
10	CONC APRON - SEE CIVIL
11	PATCH CONC FLOOR SLAB AFTER NEW FOOTING IS INSTALLED.
12	DATA RACK - SEE ELECTRICAL
13	REINSTALL SALVAGED CASEWORK AND COUNTERTOP
14	TV MONITOR - VERIFY LOCATION WITH OWNER
15	INSTALL NEW FLOOR DRAIN COVER ON EXISTING FLOOR DRAIN.
16	INSTALL NEW ADA DOOR OPERATOR.
17	INSTALL SALVAGED ADA DOOR OPERATOR.
18	PAINT AND REINSTALL SALVAGED ACCESS DOOR.
19	EQUIPMENT BY OWNER - SEE EQUIPMENT SCHEDULE
20	SEMI-RECESSED FIRE EXTINGUISHER CABINET
21	BLOCKING FOR OFCI WHITE/TACK BOARDS
22	NOC (ROOM 215) TO REMAIN OPERATIONAL DURING CONSTRUCTION.
23	EQUIPMENT ITEMS 31 AND 33 ARE TO BE INSTALLED BY CONTRACTOR.
24	REPLACE EXISTING AUTO OPERATORS BOTH SIDES OF DOOR WITH NEW - SEE DOOR HARDWARE GROUP 12 - SEE SPEC
25	WALL MOUNTED PROJECTOR SCREENS - PROVIDED AND INSTALLED BY OWNER
26	REMOVE AND REPLACE A SECTION OF WALL TO BE ABLE TO INSTALL NEW HVAC COILS. SIZE OF OPENING SHOULD BE NO HIGHER THAN 4'-0" AND VERIFY LENGTH WITH MECHANICAL. WALL TYPE IS GYP BD AND STUD. REPLACE WITH SIMILAR AND PATCH WALL PROTECTION. PRESERVE WALL GRAPHIC ON UPPER PORTION OF WALL

A02

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 INNOVATION CENTER

Project Location: 405 8TH STREET NORTH LA CROSSE, WI

Sheet Title: BASEMENT PLAN

HSR Project Number: 24003

Project Date: AUGUST 2024

Drawn By: HSR

Key Plan:

Revisions:

No.	Description	Date
A02	ADDENDUM #2	8-16-2024

Graphic Scale: 0' 2' 4' 8' 12'

Last Update: 8/16/2024 9:24:21 AM

A100

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	ROOM #	MFG.	MODEL	DIM (WxDxH)
1	FUSION MAKER 12	112	EPILOG LASER		39.5" x 26.5" x 17.9"
2	FUME EXTRACTOR	112	BOFA	AD 350	23.25" x 16" x 18.5"
3	WATER JET CUTTING MACHINE	112	WAZER	WAZER DESKTOP	34" x 26" x 48"
4	POWDER MANAGEMENT STATION	112	FORMLABS	FUSE SIFT	40" x 24" x 61"
5	SAND BLAST CABINET	112	FORMLABS	FUSE BLAST	39" x 29.75" x 68.75"
6	20-TON DOUBLE-PUMP HYDRAULIC PRESS	112	GRIZZLY	T1241	32.5" x 33.5" x 72"
7	BENCH LATHE W/ STAND	112	GRIZZLY	G9972Z	51" x 23" x 19"
8	1 HP MILL/DRILL W/ STAND	112	GRIZZLY	G0759	38" x 24" x 67"
9	2-WHEEL METAL BELT GRINDER/SANDER	112	GRIZZLY	G0897	15" x 25.5" x 35.5"
10	1 1/2 HP METAL DUST COLLECTOR	112	GRIZZLY	T28798	20" x 28.5" x 43"
11	9L CNC LATHE	112	TORMACH		50" x 26" x 52"
12	CNC ROUTER	112	TORMACH	24R	72" x 39" x 76.5"
13	VACUUM PUMP	112	BLACK BOX VACUUMS	STORM	18.5" x 17.5" x 17.5"
14	2 HP BANDSAW	112	GRIZZLY	G0513	32" x 32" x 73"

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	ROOM #	MFG.	MODEL	DIM (WxDxH)
15	CNC MILLING MACHINE	112	TORMACH	PCNC 440	42" x 36" x 72"
16	1 1/2 HP PORTABLE DUST COLLECTOR	112	GRIZZLY	G1028Z2	33.5" x 21.25" x 78"
17	1 HP METAL-CUTTING BANDSAW	112	GRIZZLY	G0561	48" x 16" x 40"
18	MK4 3D PRINER	112	PRUSA	MK4	19.75" x 21.75" x 15.75"
19	XL 3D PRINTER	112	PRUSA	XL	31.5" x 31.5" x 35.5"
20	DRY BOX	112	ESSENTIUM	DB270	40" x 30" x 70"
21	S7 PRO 3D PRINTER	112	ULTIMAKER	S7 PRO	19.5" x 19.75" x 47"
22	PRO HT90 3D PRINTER	112	PRUSA	PRO HT90	
23	SLS 3D PRINTER	112	FORMLABS	FUSE 1+	27" x 25.5" x 42"
24	MITER SAW W/ STAND	112	DEWALT	DWS779	21" x 17" x 17"
25	TABLE SAW W/ STAND	112	DEWALT	DWE7491RS	31" x 24.5" x 31"
26	ROBOTS	113	FANUC		
27	PLC/HMI TRAINER	113	FANUC		
28	TABLETOP AND FLOOR CONVEYOR	113	APT		4 1/2" x 36"

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	ROOM #	MFG.	MODEL	DIM (WxDxH)
29	CSM 3 ROBOT & 1 LASER	113	APT		184" x 56"
30	CSM CONTROL STATION	113	APT		48" x 24"
31	ROBOT TABLE	113	YASKAWA		
32	POWER SUPPLY	113	YASKAWA		
33	LARGE ROBOTS	113	YASKAWA		
34	POWER SUPPLY	113	YASKAWA		
35	AIR COMPRESSOR	112	CALIFORNIA AIR		26" x 14" x 23"
36.1	TEMI AI	100	TEMI		13.25" x 18" x 42"
36.2	TEMI AI	200	TEMI		13.25" x 18" x 42"
37	100 AMR	113	MiR	MiR 100	
38	20" FLOOR DRILL PRESS	112	GRIZZLY	M1039	21" x 34.75" x 70.75"
39	PVA REMOVAL STATION	112	ULTIMAKER		12" x 13" x 14.75"
40	TABLE	112			

PLAN GENERAL NOTES:

A. REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.

B. SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.

C. LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.

D. FIXED EQUIPMENT IS SHOWN ON THIS PLAN FOR COORDINATION. SEE SHEETS **A101** FOR ALL EQUIPMENT NOTES.

E. UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED 1/4" MIN. 1/16" : 12" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS.

F. PAINT ALL EXPOSED STEEL LINTELS.

G. EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE.

H. SEE STRUCTURAL FOR SLAB CONTROL JOINTS.

I. GENERAL CONTRACTOR TO PROVIDE CONCRETE EQUIPMENT PADS/CURBS AS REQUIRED FOR MECHANICAL / ELECTRICAL EQUIPMENT- VERIFY SIZE, PROFILE & LOCATION WITH MECHANICAL / ELECTRICAL

J. VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.

K. PATCH AND PAINT AROUND OLD FIRE ALARM DEVICES THAT ARE REMOVED THROUGHOUT ENTIRE BUIDLING - COORDINATAE W/ ELEC. AND FIRE ALARM

L. ALL EQUIPMENT IN EQUIPMENT SCHEDULE ON A101 WILL BE INSTALLED BY THE OWNER EXPECT ITEMS IDENTIFIED WITH KEYNOTE 23.

PLAN LEGEND:

- (A) SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.
- BL-# SYMBOL INDICATES BORROWED LITE TYPE. SEE SHEET A601 FOR BORROWED LITE FRAME ELEVATIONS.
- △ SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- 1 HOUR WALL

PLAN KEY NOTES

1	BOLLARD - SEE CIVIL
2	SOLID SURFACE WINDOW STOOL
3	POST MOUNTED ADA POWER DOOR OPENER
4	PATCH WALL AT REMOVED PARTITION
5	INFILL OPENING AT REMOVE DOOR/FRAME. MATCH ADJACENT CONSTRUCTION AND FINISH.
6	FURNITURE N.I.C.
7	NEW ELEVATOR (BY OTHERS)
8	EXISTING WOOD DOOR SLAB TO BE RESTAINED - SEE DOOR SCHEDULE
9	ALT BID 7D: INTERIOR SIGNAGE - SEE A210 FOR SIGNAGE SCHEDULE
10	CONC APRON - SEE CIVIL
11	PATCH CONC FLOOR SLAB AFTER NEW FOOTING IS INSTALLED.
12	DATA RACK - SEE ELECTRICAL
13	REINSTALL SALVAGED CASEWORK AND COUNTERTOP
14	TV MONITOR - VERIFY LOCATION WITH OWNER
15	INSTALL NEW FLOOR DRAIN COVER ON EXISTING FLOOR DRAIN.
16	INSTALL NEW ADA DOOR OPERATOR.
17	INSTALL SALVAGED ADA DOOR OPERATOR.
18	PAINT AND REINSTALL SALVAGED ACCESS DOOR.
19	EQUIPMENT BY OWNER - SEE EQUIPMENT SCHEDULE
20	SEMI-RECESSED FIRE EXTINGUISHER CABINET
21	ACCESS DOOR AND PANEL - SEE SCHEDULE
22	NOC (ROOM 215) TO REMAIN OPERATIONAL DURING CONSTRUCTION.
23	EQUIPMENT ITEMS 31 AND 33 ARE TO BE INSTALLED BY CONTRACTOR
24	REPLACE EXISTING AUTO OPERATORS BOTH SIDES OF DOOR WITH NEW - SEE DOOR HARDWARE GROUP 12 - SEE SPEC
25	WALL MOUNTED PROJECTOR SCREENS - PROVIDED AND INSTALLED BY OWNER
26	REMOVE AND REPLACE A SECTION OF WALL TO BE ABLE TO INSTALL NEW HVAC COILS. SIZE OF OPENING SHOULD BE NO HIGHER THAN 4'-0" AND VERIFY LENGTH WITH MECHANICAL. WALL TYPE IS GYP BD AND STUD. REPLACE WITH SIMILAR AND PATCH WALL PROTECTION. PRESERVE WALL GRAPHIC ON UPPER PORTION OF WALL

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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**
INNOVATION CENTER

Project Location: **405 8TH STREET NORTH**
LA CROSSE, WI

Sheet Title: **FIRST FLOOR**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **HSR**

Key Plan:

Revisions:

No.	Description	Date
A01	ADDENDUM #1	8-9-2024
A02	ADDENDUM #2	8-16-2024

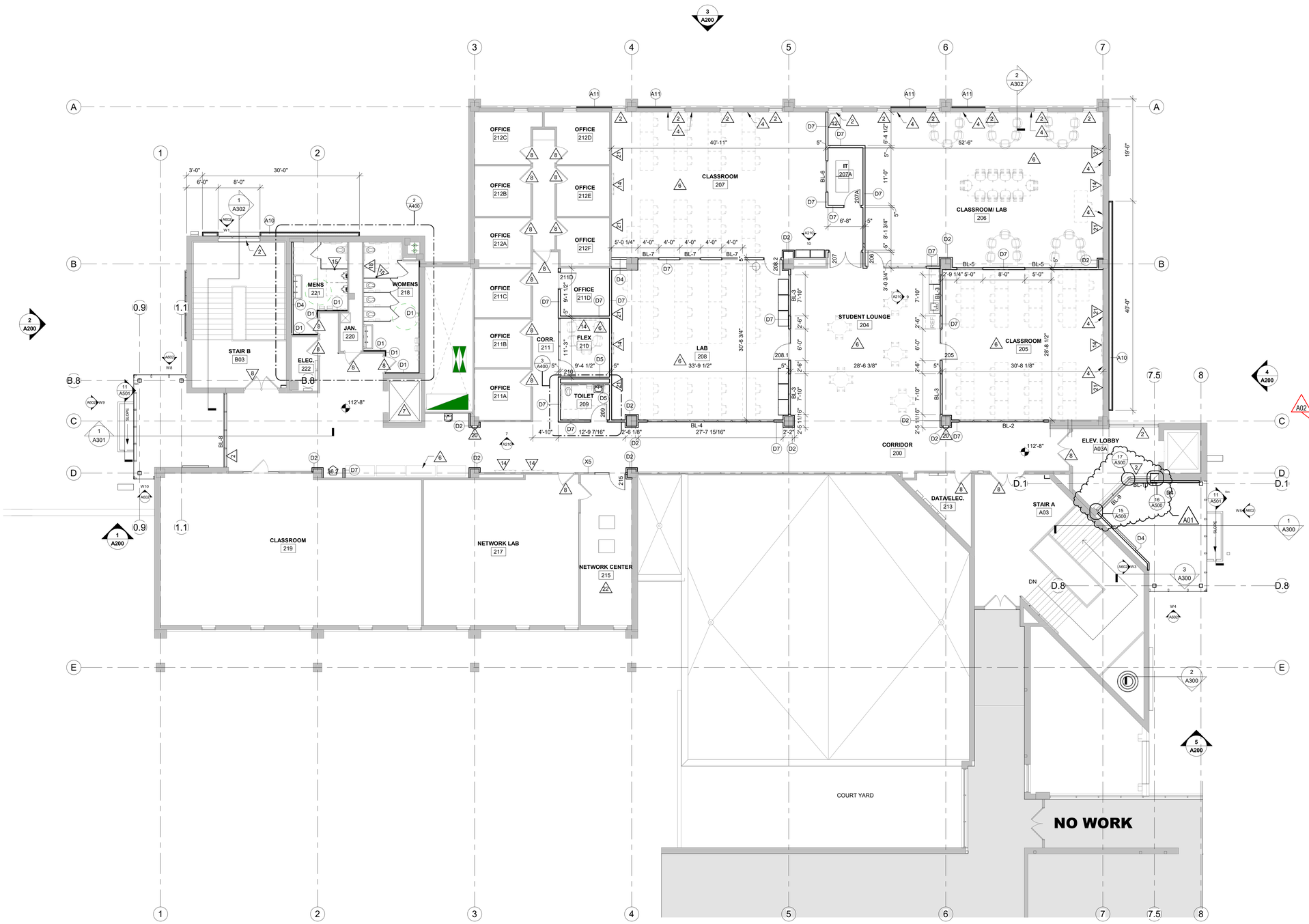
Graphic Scale: 0 2' 4' 8' 12'

Last Update: **8/15/2024 2:14:42 PM**

A101

1 FIRST FLOOR

1/8" = 1'-0"



1 SECOND FLOOR

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 AND WALL FINISH LAYOUTS.

C. LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.

D. FIXED EQUIPMENT IS SHOWN ON THIS PLAN FOR COORDINATION. SEE SHEETS **A101** FOR ALL EQUIPMENT NOTES.

E. UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" : 12" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS.

F. PAINT ALL EXPOSED STEEL LINTELS.

G. EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE.

H. SEE STRUCTURAL FOR SLAB CONTROL JOINTS.

I. GENERAL CONTRACTOR TO PROVIDE CONCRETE EQUIPMENT PADS/CURBS AS REQUIRED FOR MECHANICAL / ELECTRICAL EQUIPMENT- VERIFY SIZE, PROFILE & LOCATION WITH MECHANICAL / ELECTRICAL.

J. VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.

K. PATCH AND PAINT AROUND OLD FIRE ALARM DEVICES THAT ARE REMOVED THROUGHOUT ENTIRE BUILDING - COORDINATE W/ ELEC. AND FIRE ALARM

L. ALL EQUIPMENT IN EQUIPMENT SCHEDULE ON A101 WILL BE INSTALLED BY THE OWNER EXCEPT ITEMS IDENTIFIED WITH KEYNOTE 23.

A02

PLAN LEGEND:

(A) SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.

BL-# SYMBOL INDICATES BORROWED LITE TYPE. SEE SHEET A601 FOR BORROWED LITE FRAME ELEVATIONS.

SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET

1 HOUR WALL

PLAN KEY NOTES

1	BOLLARD - SEE CIVIL
2	SOLID SURFACE WINDOW STOOL
3	POST MOUNTED ADA POWER DOOR OPENER
4	PATCH WALL AT REMOVED PARTITION
5	INFILL OPENING AT REMOVE DOOR/FRAME. MATCH ADJACENT CONSTRUCTION AND FINISH.
6	FURNITURE N.I.C.
7	NEW ELEVATOR (BY OTHERS)
8	EXISTING WOOD DOOR SLAB TO BE RESTAINED - SEE DOOR SCHEDULE
9	ALT BID 7D: INTERIOR SIGNAGE - SEE A210 FOR SIGNAGE SCHEDULE
10	CONC APRON - SEE CIVIL
11	PATCH CONC FLOOR SLAB AFTER NEW FOOTING IS INSTALLED.
12	DATA RACK - SEE ELECTRICAL
13	REINSTALL SALVAGED CASEWORK AND COUNTERTOP
14	TV MONITOR - VERIFY LOCATION WITH OWNER
15	INSTALL NEW FLOOR DRAIN COVER ON EXISTING FLOOR DRAIN.
16	INSTALL NEW ADA DOOR OPERATOR.
17	INSTALL SALVAGED ADA DOOR OPERATOR.
18	PAINT AND REINSTALL SALVAGED ACCESS DOOR.
19	EQUIPMENT BY OWNER - SEE EQUIPMENT SCHEDULE
20	SEMI-RECESSED FIRE EXTINGUISHER CABINET
21	BLOCKING FOR OFCI WHITE/TACK BOARDS
22	NOC (ROOM 215) TO REMAIN OPERATIONAL DURING CONSTRUCTION
23	EQUIPMENT ITEMS 31 AND 33 ARE TO BE INSTALLED BY CONTRACTOR
24	REPLACE EXISTING AUTO OPERATORS BOTH SIDES OF DOOR WITH NEW - SEE DOOR HARDWARE GROUP 12 - SEE SPEC.
25	WALL MOUNTED PROJECTOR SCREENS - PROVIDED AND INSTALLED BY OWNER
26	REMOVE AND REPLACE A SECTION OF WALL TO BE ABLE TO INSTALL NEW HVAC COILS. SIZE OF OPENING SHOULD BE NO HIGHER THAN 4'-0" AND VERIFY LENGTH WITH MECHANICAL. WALL TYPE IS GYP BD AND STUD. REPLACE WITH SIMILAR AND PATCH WALL PROTECTION. PRESERVE WALL GRAPHIC ON UPPER PORTION OF WALL

A02

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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 INNOVATION CENTER

Project Location: 405 8TH STREET NORTH LA CROSSE, WI

Sheet Title: SECOND FLOOR

HSR Project Number: 24003

Project Date: AUGUST 2024

Drawn By: HSR

Key Plan:

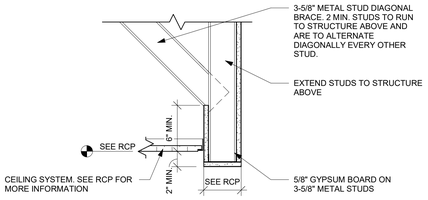
Revisions:

No.	Description	Date
A01	ADDENDUM #1	8-9-2024
A02	ADDENDUM #2	8-16-2024

Graphic Scale: 0' 2' 4' 8' 12'

Last Update: 8/16/2024 9:24:23 AM

A102



2 BULKHEAD TRANSITION

1 1/2" = 1'-0"

1 FIRST FLOOR

1/8" = 1'-0"

RCP GENERAL NOTES:

A. REFER TO MECHANICAL AND PLUMBING CEILING ACCESS PANEL LOCATIONS & SIZES.

B. SEE MECHANICAL FOR CEILING GRILLE INFORMATION.

C. SEE ELECTRICAL FOR LIGHTING TYPES.

D. ALL INTERIOR PARTITIONS TO EXTEND TO BOTTOM OF DECK UNLESS OTHERWISE NOTED. CLOSE DECK FLUTES AT TOP OF WALL WITH NEOPRENE FILLER OR FIRESTOPPING SYSTEM. IN GYP/STUD PARTITIONS SEE SPECIFICATION FOR LEVEL OF FINISH ABOVE FINISHED CEILING.

E. ALL REMAINING ANNULAR SPACE AROUND ITEMS PENETRATING WALLS SHALL BE NEATLY SEALED. PENETRATIONS OF FIRE RATED WALLS SHALL BE FIRESTOPPED WITH THE SAME AS THE WALL.

F. WHERE NO CEILING/EXPOSED STRUCTURE UNLESS NOTED OTHERWISE, CONTRACTOR SHALL KEEP ALL MEP ABOVE OR EVEN WITH THE LEVEL OF THE LIGHTS. MEP SHALL RUN IN NEAT ORDERLY APPEARANCE GENERALLY PARALLEL OR PERPENDICULAR TO FINISHED STRUCTURE. WALLS IN THESE ROOMS TO RUN TO DECK AND ALL STRUCTURE / MEP COMPONENTS ARE TO BE PAINTED.

G. ALL EXTERIOR EXPOSED STEEL LINTELS/HEADERS SHALL BE GALVANIZED, PRIMED AND PAINTED UNLESS NOTED OTHERWISE.

H. REFER TO INTERIOR DESIGN SHEETS FOR OTHER FINISHES.

I. HANGERS AND SUPPORTS: MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CABLING CONTRACTORS SHALL NOT HANG OR SUPPORT THE WORK FROM THE ROOF DECK IN ANY FASHION. CONDUIT RUNS SHALL NOT BE LAID ON ROOF DECK NOR LAID ON THE STRUCTURAL SUPPORT THAT SUPPORTS THE ROOF DECK. NO FASTENERS SHALL PENETRATE ROOF DECK BY ANY TRADE OTHER THAN THE ROOFING CONTRACTOR FOR THE NEW ROOF SYSTEM.

J. CONFIRM EXACT LOCATION OF OVERHEAD PROJECTORS AND OTHER CEILING MOUNTED EQUIPMENT WITH OWNER / MANUFACTURER PRIOR TO INSTALLATION. SEE EQUIPMENT PLANS FOR ADDITIONAL EQUIPMENT.

K. CEILING TYPES INSTALLED AS NOTED ON PLANS. SEE SPECIFICATIONS FOR ADDITIONAL SYSTEM INFORMATION. **ACT-2**=TEGULAR EDGE, **ACT-3**=VINYL FACED GYP, **LAC** = LINEAR ACOUSTIC CEILING, **LMC-1** = LINEAR METAL CEILING SYSTEM

RCP LEGEND:

- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- SUPPLY - SEE MECHANICAL
- RETURN - SEE MECHANICAL
- EXHAUST - SEE MECHANICAL
- DESTRAT FAN - SEE MECHANICAL

RCP KEY NOTES

1	EXISTING SUSPENDED ACOUSTIC TILE CEILING TO REMAIN. REMOVE AND REINSTALL CEILING AS REQUIRED FOR INSTALLATION OF FIRE PROTECTION SYSTEM.
2	PAINT GYP BD SOFFIT PNT-2
3	PAINT STRUCTURE PNT-5
4	PAINT STRUCTURE PNT-6
5	PAINT GYP BD SOFFIT PNT-3
6	FLUSH VENTED ALUM SOFFIT
7	ALIGN CEILING WITH EDGE OF WALL/COLUMN
8	RECTANGULAR TUBE BLADE SUNSHADE
9	GYP. BD SOFFIT
10	NEW AC TILE AND GRID SYSTEM.
11	LIGHT FIXTURE - SEE ELECTRICAL
12	LINEAR CEILING BAFFLES FIELD COLOR LAC-1. ACCENT AS SHOWN ON PLANS
13	CEILING MOUNTED PROJECTORS - OWNER PROVIDED AND INSTALLED - POWER NEEDED

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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 INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **RCP FIRST FLOOR**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **HSR**

Key Plan:

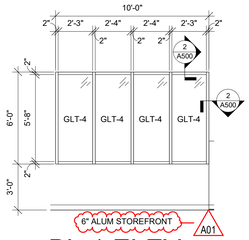
Revisions:

No.	Description	Date
A02	ADDENDUM #2	8-16-2024

Graphic Scale: **VARIES**

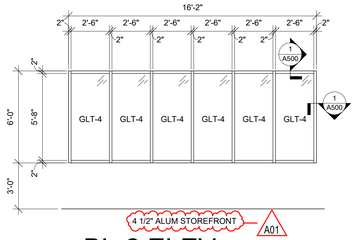
Last Update: **8/15/2024 9:49:44 AM**

A110



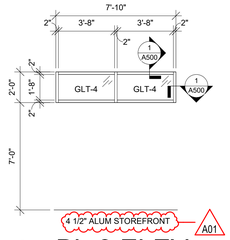
1 BL-1 ELEV

1/4" = 1'-0"



2 BL-2 ELEV

1/4" = 1'-0"



3 BL-3 ELEV

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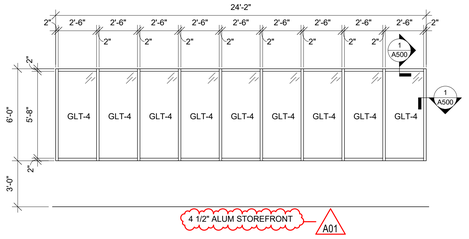

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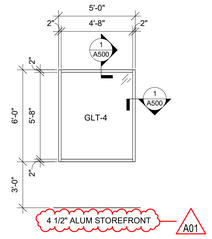
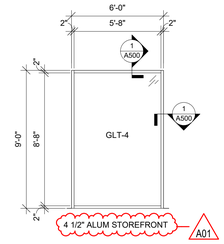


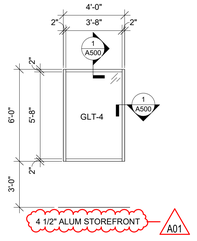
5 BL-5 ELEV

1/4" = 1'-0"



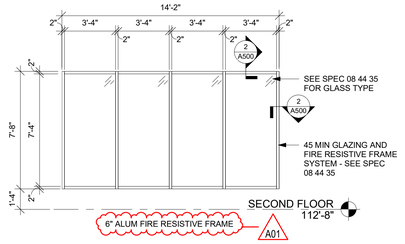
6 BL-6 ELEV

1/4" = 1'-0"



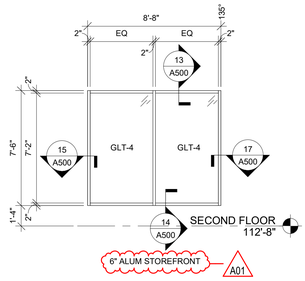
7 BL-7 ELEV

1/4" = 1'-0"



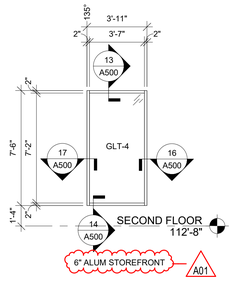
8 BL-8 ELEV

1/4" = 1'-0"



9 BL-9 ELEV

1/4" = 1'-0"



10 BL-10 ELEV

1/4" = 1'-0"

DOOR SCHEDULE

MARK	SIZE W	SIZE H	SIZE T	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	GLASS TYPE	FRAME TYPE	FRAME DEPTH	FRAME MATERIAL	FRAME FINISH	GLASS TYPE	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE LABEL	HDWR GROUP	SIGNAGE	REMARKS
101.1	3' - 0"	7' - 0"	1 1/2"	DOOR E	ALUM	CLEAR ANODIZED	GLT-12	W5A602	6"	ALUM	CLEAR ANODIZED	GLT-12	1A501/10A501	9A501	9A500	---	1	---	
101.2	3' - 0"	7' - 0"	1 1/2"	DOOR E	ALUM	CLEAR ANODIZED	GLT-12	W5A602	6"	ALUM	CLEAR ANODIZED	GLT-12	1A501/10A501	9A501	9A500	---	1	---	1,3
101.3	3' - 4"	7' - 1"	1 1/2"	DOOR E	EXIST ALUM	CHAMPAGNE	EXIST GLT	EXISTING	4 1/2"	ALUM	CHAMPAGNE	EXIST GLT	---	---	---	---	11	---	8
102.1	3' - 0"	7' - 0"	1 1/2"	DOOR E	ALUM	CLEAR ANODIZED	GLT-12	W9A602	6"	ALUM	CLEAR ANODIZED	GLT-12	1A501/10A501	5A501/9A501	9A500	---	1	---	
102.2	3' - 0"	7' - 0"	1 1/2"	DOOR E	ALUM	CLEAR ANODIZED	GLT-12	W9A602	6"	ALUM	CLEAR ANODIZED	GLT-12	1A501/10A501	5A501/9A501	9A500	---	1	---	1,3
102.3	6' - 2"	7' - 0"	1 3/4"	DOOR B	EXIST SCWD	STAIN	EXIST GLT	FRAME AA	9"	EXIST HM	PAINT	EXIST GLT	---	---	---	90 MIN	11	---	8
105E	3' - 0"	7' - 0"	1 3/4"	DOOR A	SCWD	STAIN	---	FRAME GG	5 3/4"	HM	PAINT	GLT-4	7A500	7A500	---	---	2	---	
105K	3' - 0"	7' - 0"	1 3/4"	DOOR A	SCWD	STAIN	---	FRAME GG	5 3/4"	HM	PAINT	GLT-4	7A500	7A500	---	---	2	---	
105L	3' - 0"	7' - 0"	1 3/4"	DOOR A	SCWD	STAIN	GLT-4	FRAME AA	5 3/4"	HM	PAINT	---	7A500	7A500	---	---	2	---	
109	2' - 10"	7' - 0"	1 1/2"	DOOR B	EXIST SCWD	STAIN	EXIST GLT	EXISTING	5 3/4"	EXIST HM	PAINT	EXIST GLT	---	---	---	---	3	---	1,2
109A	3' - 0"	7' - 0"	1 3/4"	DOOR A	SCWD	PAINT	---	FRAME GG	5"	HM	PAINT	GLT-4	7A500	7A500	---	---	4	---	
109B	3' - 0"	7' - 0"	1 3/4"	DOOR A	SCWD	PAINT	---	FRAME AA	5 3/4"	HM	PAINT	---	7A500	7A500	---	---	5	---	
110.1	3' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	GLT-4	FRAME JJ	4 1/2"	ALUM	CLEAR ANODIZED	GLT-4	5A500	5A500	---	---	6	---	1
110.2	10' - 0"	9' - 0"	2"	DOOR H	GLASS SECTIONAL	---	SEE SPEC 08 36 13	SEE DOOR H ELEV	7 1/4"	---	---	---	11A500	12A500	---	---	-	---	4,5
110.3	12' - 0"	9' - 4"	2"	DOOR H	GLASS SECTIONAL	---	SEE SPEC 08 36 13	SEE DOOR H ELEV	11-5 7/8"	STL	---	---	6A500	8A500	10A500	---	-	---	4,5,7
111	3' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	GLT-4	FRAME KK	4 1/2"	ALUM	CLEAR ANODIZED	GLT-4	5A500	5A500	---	---	4	---	
112.1	3' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	GLT-4	FRAME LL	4 1/2"	ALUM	CLEAR ANODIZED	GLT-4	5A500	5A500	---	---	6	---	1
112.2	10' - 0"	9' - 0"	2"	DOOR H	GLASS SECTIONAL	---	SEE SPEC 08 36 13	SEE DOOR H ELEV	7 1/4"	---	---	---	11A500	12A500	---	---	-	---	4,5
112A.1	3' - 0"	7' - 0"	1 3/4"	DOOR A	SCWD	PAINT	---	FRAME AA	8 1/4"	HM	PAINT	---	7A500	7A500	---	---	2	---	
112A.2	8' - 0"	8' - 0"	1 1/2"	DOOR J	FLUSH SECTIONAL	---	---	SEE DOOR J ELEV	7 1/4"	---	---	---	11A500	12A500	---	---	-	---	4,6
112A.3	8' - 0"	8' - 0"	1 1/2"	DOOR J	FLUSH SECTIONAL	---	---	SEE DOOR J ELEV	7 1/4"	---	---	---	11A500	12A500	---	---	-	---	4,6
205	3' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	GLT-4	FRAME MM	4 1/2"	ALUM	CLEAR ANODIZED	GLT-4	5A500	5A500	---	---	4	---	
206	3' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	GLT-4	FRAME NN	4 1/2"	ALUM	CLEAR ANODIZED	GLT-4	5A500	5A500	---	---	2	---	
207	6' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	GLT-4	FRAME OO	4 1/2"	ALUM	CLEAR ANODIZED	GLT-4	5A500	5A500	---	---	9	---	
207A	3' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	GLT-4	FRAME AA	4 1/2"	ALUM	CLEAR ANODIZED	---	5A500	5A500	---	---	7	---	
208.1	3' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	GLT-4	FRAME PP	4 1/2"	ALUM	CLEAR ANODIZED	GLT-4	5A500	5A500	---	---	6	---	1
208.2	3' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	GLT-4	FRAME QQ	4 1/2"	ALUM	CLEAR ANODIZED	GLT-4	5A500	5A500	---	---	10	---	
209	3' - 0"	7' - 0"	1 3/4"	DOOR A	SCWD	PAINT	---	FRAME AA	5 3/4"	HM	PAINT	---	7A500	7A500	---	---	8	SEE SHEET G002	
210	3' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	---	FRAME RR	4 1/2"	ALUM	CLEAR ANODIZED	GLT-4	5A500	5A500	---	---	2	---	
211D	3' - 0"	7' - 0"	1 3/4"	DOOR B	SCWD	PAINT	GLT-4	FRAME AA	5 3/4"	HM	PAINT	---	7A500	7A500	---	---	2	---	
215	3' - 0"	7' - 0"	1 3/4"	DOOR E	SCWD	PAINT	GLT-4	FRAME PP	4 1/2"	ALUM	CLEAR ANODIZED	GLT-4	5A500	5A500	---	---	4	---	

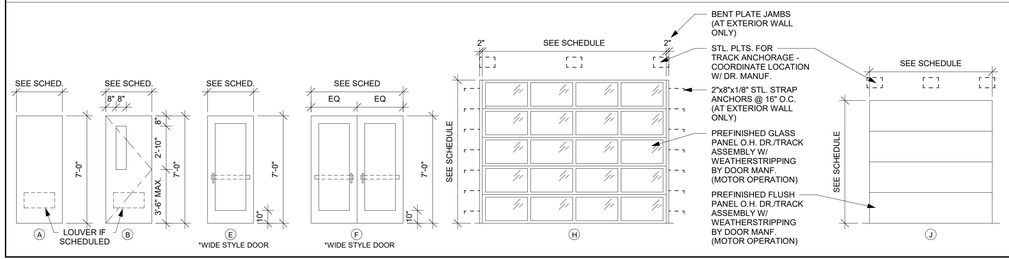
****SEE KEY NOTE 8 ON FLOOR PLANS FOR EXISTING DOORS TO BE REMOVED, SALVAGED, STAINED AND REINSTALLED - SEE 09 93 00 FOR OPAQUE STAIN. THIS WORK IS TO BE DONE BY DOOR CONTRACTOR AND ALL HARDWARE TO BE REMOVED AND REINSTALLED AFTER NEW PAINTING IS COMPLETE.****

DOOR SCHEDULE GENERAL NOTES

HM = HOLLOW METAL IHM = INSULATED HOLLOW METAL ALUM = ALUMINUM SCWD = SOLID CORE WOOD DOOR

A. SEE SPECIFICATIONS FOR DOOR HARDWARE GROUPS
B. ALL HM (HOLLOW METAL) AND IHM (INSULATED HOLLOW METAL) DOORS AND FRAMES SHALL BE PAINTED
C. ALL DOUBLE DOORS TO HAVE TWO EQUAL LEAFS UNLESS NOTED OTHERWISE

DOOR TYPES



DOOR SCHEDULE REMARKS

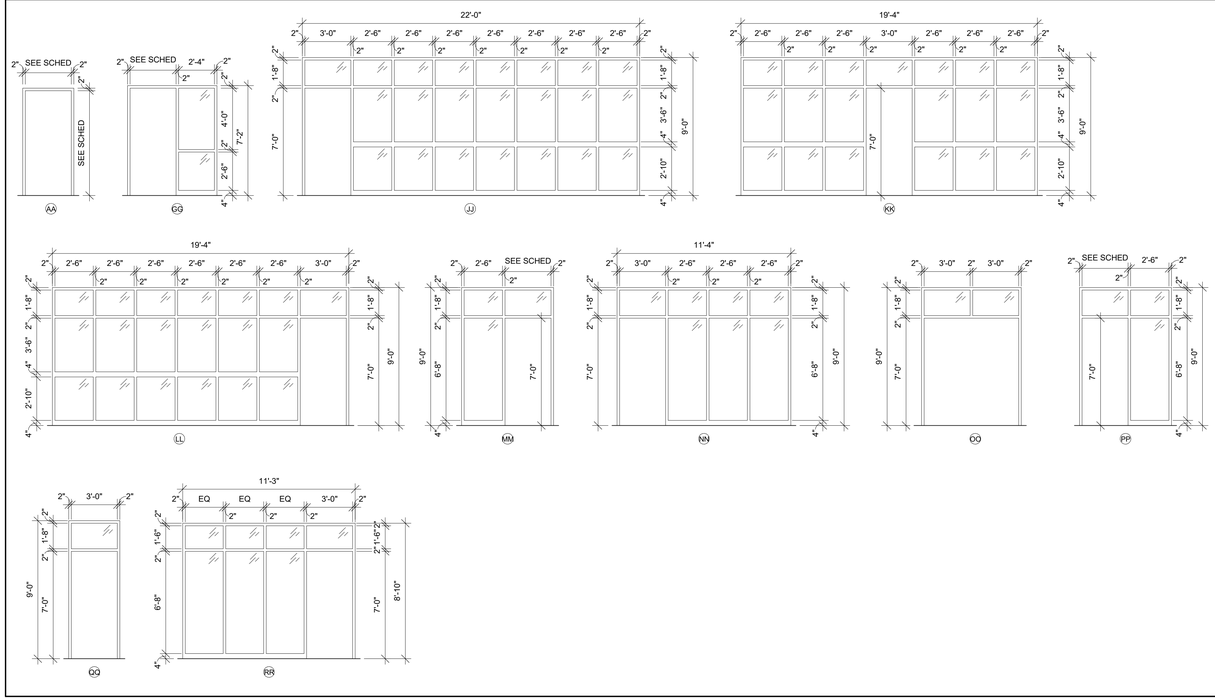
1. ELECTRONIC CARD ACCESS AND ELECTRIC STRIKE REQUIRED.
2. EXISTING DOOR AND FRAME TO REMAIN.
3. ADA POWER OPERATOR REQUIRED.
4. VERIFY DOOR THICKNESS WITH MANUF.
5. GLASS OVERHEAD SECTIONAL DOOR - ELECTRIC OPERATION.
6. FLUSH OVERHEAD SECTIONAL DOOR - ELECTRIC OPERATION.
7. JAMB DEPTH VARIES.
8. EXISTING DOOR TO RECEIVE NEW ADA POWER OPERATORS.

DOOR FRAME GENERAL NOTES

HM = HOLLOW METAL IHM = INSULATED HOLLOW METAL ALUM = ALUMINUM STL = STEEL

A. SEE SHEET A600 FOR ADDITIONAL FRAME TYPES
B. ALL HM (HOLLOW METAL) AND IHM (INSULATED HOLLOW METAL) FRAMES SHALL BE PAINTED.

DOOR FRAME TYPES



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 INNOVATION CENTER

Project Location: 405 8TH STREET NORTH LA CROSSE, WI

Sheet Title: DOOR SCHEDULE

HSR Project Number: 24003

Project Date: AUGUST 2024

Drawn By: HSR

Key Plan:

Revisions:

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A02	ADDENDUM #2	8-16-2024

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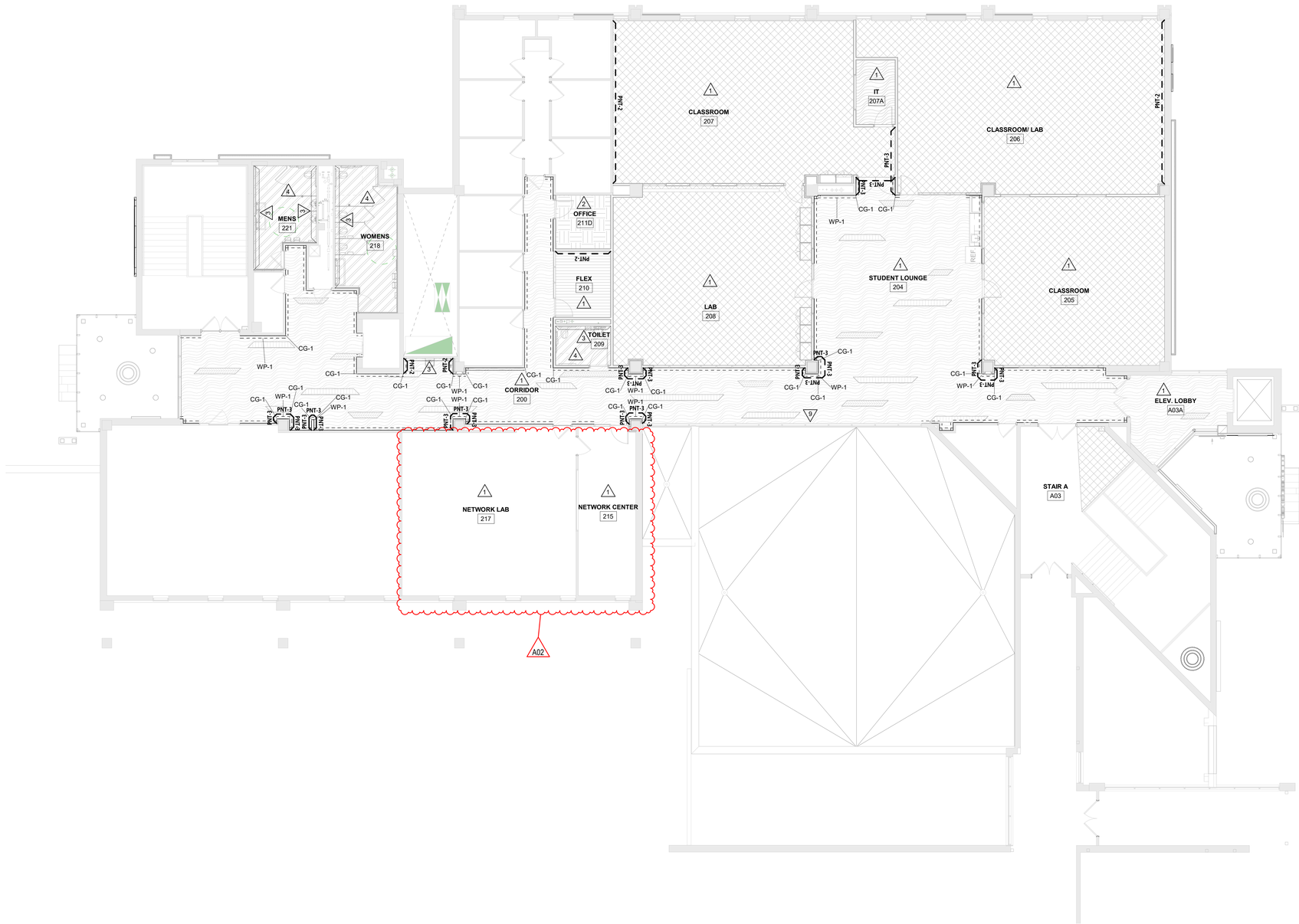
A601



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 FOR MATERIAL FINISH SPECIFICATIONS, ANNOTATIONS, AND ADDITIONAL INFORMATION.

D. TOILET ROOM WALL AND FLOOR GROUT LINES SHALL ALIGN TO CONTINUE PATTERN THROUGHOUT. SEE AXXX FOR ELEVATED PATTERNING.

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 GRAIN DIRECTION

INTERIOR FINISH LEGEND:

TLE-1	LVT-1	CPT-1
FAF-1	LVT-2	CPT-2
	LVT-3	CPT-3
		WCPT-1

ROOM FINISH REMARKS

1	PAINT ALL WALLS PNT-1 ACCENT AS INDICATED ON PLANS
2	PAINT ALL WALLS PNT-4 ACCENT AS INDICATED ON PLANS
3	FULL HEIGHT WALL & ACCENT TILE SEE ELEVATION 3 ON A210 FOR PATTERN
4	FULL HEIGHT WALL TILE ON ALL WALLS SEE ELEVATION 4 ON A210 FOR PATTERN
5	REPLACE EXISITING CARPET WITH LVT-1
6	WALL PROTECTION WP -1 ON ALL WALLS
7	WALL PROTECTION WP-2 ON ALL WALLS
8	PAINT GYP WALLS PNT-1
9	PAINT FIN TUBE COVER TO MATCH EXISTING
10	PAINT ALL EXPOSED STRUCTUAL STEEL PNT-5

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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 INNOVATION CENTER

Project Location: 405 8TH STREET NORTH LA CROSSE, WI

Sheet Title: WALL FINISH PLAN - SECOND FLOOR

HSR Project Number: 24003

Project Date: AUGUST 2024

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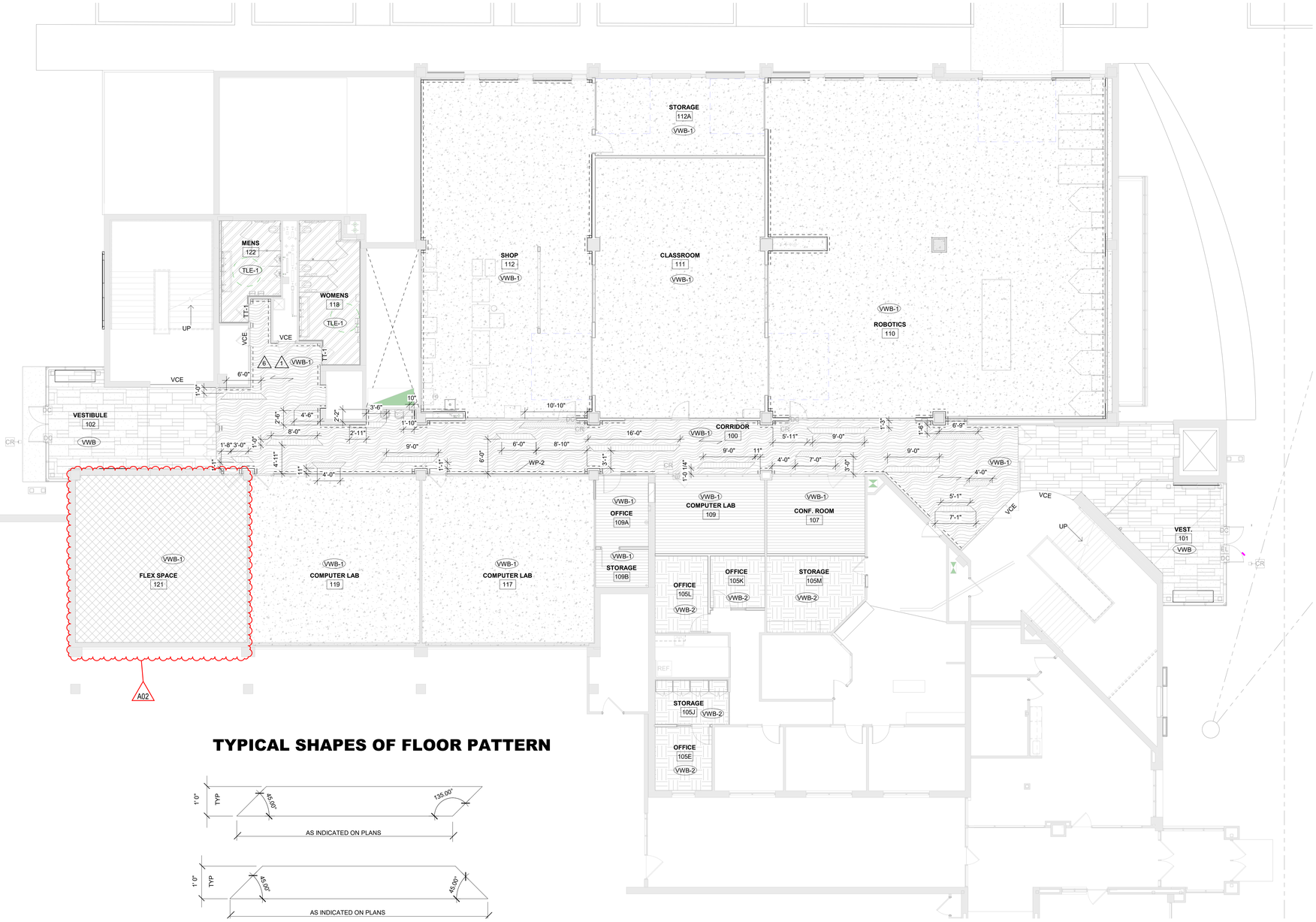
ID102



TYPICAL SHAPES OF FLOOR PATTERN

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 FOR MATERIAL FINISH SPECIFICATIONS, ANNOTATIONS, AND ADDITIONAL INFORMATION.

D. TOILET ROOM WALL AND FLOOR GROUT LINES SHALL ALIGN TO CONTINUE PATTERN THROUGHOUT. SEE AXXX FOR ELEVATED PATTERNING.

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:

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

INTERIOR FINISH LEGEND:

TLE-1	LVT-1	CPT-1
FAF-1	LVT-2	CPT-2
	LVT-3	CPT-3
		WCPT-1

ROOM FINISH REMARKS

1	PAINT ALL WALLS PNT-1 ACCENT AS INDICATED ON PLANS
2	PAINT ALL WALLS PNT-4 ACCENT AS INDICATED ON PLANS
3	FULL HEIGHT WALL & ACCENT TILE SEE ELEVATION 3 ON A210 FOR PATTERN
4	FULL HEIGHT WALL TILE ON ALL WALLS SEE ELEVATION 4 ON A210 FOR PATTERN
5	REPLACE EXISITING CARPET WITH LVT-1
6	WALL PROTECTION WP-1 ON ALL WALLS
7	WALL PROTECTION WP-2 ON ALL WALLS
8	PAINT GYP WALLS PNT-1
9	PAINT FIN TUBE COVER TO MATCH EXISTING
10	PAINT ALL EXPOSED STRUCTUAL STEEL PNT-5

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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
INNOVATION CENTER

Project Location: 405 8TH STREET NORTH
LA CROSSE, WI

Sheet Title: FLOOR FINISH PLAN - FIRST FLOOR

HSR Project Number: 24003

Project Date: AUGUST 2024

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ID103

ABBREVIATIONS

ABBRV.	WORD OR PHRASE
&	AND
@	AT
Ø	DIAMETER
AB	ANCHOR BOLT
ADDL	ADDITIONAL
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASD	ALLOWABLE STRESS DESIGN
B/	BOTTOM OF
BC	BOTTOM CORD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BTWN	BETWEEN
C	CHANNEL
CFS	COLD-FORMED STEEL
CIP	CAST IN PLACE
CJ	CONTROL OR CONSTRUCTION JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE OR CONCENTRATED
CONN	CONNECTION
CONT	CONTINUOUS
CORR	CORRIDOR
CS	COLUMN STRIP
CTR	CENTER
DBL	DOUBLE
DEFL	DEFLECTION
DEMO	DEMOLITION
DFL	DOUGLAS FIR LARCH
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DP	DRILLED PIER
DS	DRAG STRUT
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBEDMENT
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EP	EMBED PLATE
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FF	FINISH FLOOR ELEVATION
FIN	FINISH
FLR	FLOOR
FND	FOUNDATION
FRMG	FRAMING
FRT	FIRE RETARDANT TREATED
FS	FAR SIDE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GT	GIRDER TRUSS
GYP	GYPSUM
HDG	HOT DIPPED GALVANIZED
HDR	HEADER
HF	HEM FIR
HIF	HORIZONTAL INSIDE FACE
HOF	HORIZONTAL OUTSIDE FACE
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING, VENTING & AIR COND.
HWS	HEADED WELD STUD
ID	INSIDE DIAMETER

ABBRV.	WORD OR PHRASE
IF	INSIDE FACE
INFO	INFORMATION
INT	INTERIOR
JST	JOIST
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
2L	DOUBLE ANGLE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LRFD	LOAD RESISTANCE FACTOR DESIGN
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
LW	LONG WAY
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MASONRY JOINT
MS	MIDDLE STRIP
MSR	MACHINE STRESS RATED
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
PARA	PARALLEL
PC	PILE CAP
PCF	POUNDS PER CUBIC FOOT
PERP	PERPENDICULAR
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLU/PLBG	PLUMBING
PLY	PLIES
PLYD	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	POST TENSIONED
PTW	PRESERVATIVE TREATED WOOD
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVISION
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SC	SLIP CRITICAL
SCHED	SCHEDULE
SHT	SHEET
SIM	SIMILAR
SMS	SELF-DRILLING METAL SCREWS
SOG	SLAB ON GRADE
SP	SOUTHERN PINE
SPEC	SPECIFICATION
SPF	SPRUCE-PINE-FIR
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIF	STIFFENER
STL	STEEL
STR	STRUCTURAL
SW	SHEAR WALL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/	TOP OF
TC	TOP CHORD
TEMP	TEMPORARY
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WL	WIND LOAD
WP	WORKPOINT
WSP	WOOD STRUCTURAL PANEL
WT	WEIGHT
WWR	WELDED WIRE REINFORCEMENT

SLAB ON GRADE NOTES

1. ALL SLAB ON GRADE AREAS SHALL BE PROOF ROLLED. ALL SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED GRANULAR FILL.
2. REFER TO PLANS FOR SLAB ON GRADE REQUIREMENTS.
3. UNLESS NOTED OTHERWISE, SLAB ON GRADE TO BE CONSTRUCTED ON A MINIMUM OF 6" SUBBASE OF COMPACTED GRANULAR FILL. COMPACTION TO 95% MODIFIED PROCTOR.
4. SLAB ON GRADE SHALL INCLUDE STRUX 90/40 FIBER REINFORCEMENT BY GRACE CONCRETE PRODUCTS (OR APPROVED EQUAL). DOSAGE RATE SHALL BE 3.5 LBS/ CU YD. FIBER MANUFACTURER TO VERIFY DOSAGE RATE PRIOR TO CONSTRUCTION.
5. A VAPOR RETARDER SHALL BE PLACED BETWEEN THE BASE/SUBBASE AND THE CONCRETE FLOOR, SEE SPECIFICATIONS. DO NOT PLACE VAPOR RETARDER BENEATH POOL DECK SLABS.
6. LIMITS OF DROPPED AND DEPRESSED FLOOR AREAS TO BE LOCATED FROM ARCHITECTURAL PLANS.
7. PROVIDE SAWCUT CONTROL JOINTS IN EACH DIRECTION FOR SLAB ON GRADE. CONTRACTOR SHALL INSTALL CONTROL JOINTS AS SOON AS CONCRETE WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR WITHOUT DISTURBING THE FINISH.
8. MAXIMUM SLAB ON GRADE CONTROL JOINT SPACING = 12'-6" +/- 2'-0".
9. COORDINATE WITH ARCHITECTURAL AND PLUMBING DRAWINGS FOR ALL FLOOR DRAIN OR DRAINAGE LOCATIONS AND SLOPE SLAB ON GRADE TO DRAINS OR AS NEEDED FOR POSTIVE DRAINAGE. SLOPE ENTIRE SLAB IF 'SLOPE TO DRAIN' WILL RESULT IN MORE THAN 1 INCH OF LOSS OF SLAB THICKNESS.

FOUNDATION NOTES

1. SOIL BEARING CAPACITY = 4000 PSF
2. DESIGN FROST DEPTH FOR HEATED STRUCTURES = 4 FT BELOW GRADE
   DESIGN FROST DEPTH FOR UNHEATED STRUCTURES = 5 FT BELOW GRADE
3. FOUNDATION DESIGN CRITERIA IS BASED ON 1972 BUILDING CONSTRUCTION DOCUMENTS.
4. CROSS REFERENCE AND VERIFY ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, EDGES IN GRADE BEAMS, FOUNDATION WALLS AND PIERS.
5. REMOVE TOPSOIL FROM BENEATH ALL PROPOSED CONSTRUCTION AREAS.
6. SEE CIVIL DRAWINGS FOR BENCHMARK = ELEVATION 100'-0".
7. ALL MATERIAL USED IN GRADING OPERATIONS SHALL CONSIST OF COMPACTED FILL, INCLUDING UTILITY TRENCHES, WHICH IS FREE OF DEBRIS, BOULDERS OR ORGANIC MATERIAL. ALL FILL BELOW BUILDING FOOTPRINT SHALL BE PLACED IN MAXIMUM OF 8" LIFTS AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY. COMPACTION TESTING IS REQUIRED.
8. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY AS INDICATED ABOVE. THE DESIGN BEARING VALUES SHOULD BE VERIFIED BY A QUALIFIED TESTING AGENCY PRIOR TO PLACING CONCRETE.
9. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IF ACTUAL FIELD CONDITIONS DO NOT MEET BEARING REQUIREMENTS OR, IF QUESTIONABLE SOIL CONDITIONS ARE DISCOVERED INCLUDING BUT NOT LIMITED TO PEAT AND OTHER HIGH ORGANIC SOILS.
10. ALL BEARING SOIL OR FILL MUST BE PROTECTED FROM FREEZING. THE CONTRACTOR SHALL PROVIDE PROTECTION TO PREVENT FROST PENETRATION BELOW THE CONCRETE BEARING ELEVATIONS. ANY FROZEN SOIL BELOW THE FOUNDATION BEARING LEVEL MUST BE REMOVED PRIOR TO PLACING CONCRETE.
11. BACKFILL EVENLY ON EACH SIDE OF FOUNDATION WALLS AND RETAINING WALLS. BACKFILL EVENLY AROUND PERIMETER BASEMENT WALLS AFTER SLAB ON GRADE AND FIRST ELEVATED FLOOR ARE IN PLACE. NO BACKFILL CAN BE PLACED UNTIL WALL HAS ATTAINED FULL CONCRETE STRENGTH, OR BRACING OR SHORING IS PROVIDED TO SUPPORT ANY BASEMENT WALLS.
12. NO HOLES, TRENCHES, OR DISTURBANCES OF THE SOIL SHALL BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, FOOTINGS MUST BE LOWERED, UNLESS OTHERWISE NOTED.
13. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES THAT ARE FROZEN, CONTAIN FROST, SNOW, OR ANY STANDING WATER.

CONCRETE NOTES

1. MATERIAL SPECIFICATIONS

FOOTINGS	4,000 PSI @ 28 DAYS
FOUNDATIONS	4,000 PSI @ 28 DAYS
PIERS & COLUMNS	4,000 PSI @ 28 DAYS
INTERIOR SLAB ON GRADE	4,000 PSI @ 28 DAYS
EXTERIOR SLABS	4,500 PSI @ 28 DAYS
ALL OTHER CIP CONCRETE NOT NOTED	4,000 PSI @ 28 DAYS
PRECAST CONCRETE	DETERMINED BY PRECAST SUPPLIER
PRECAST CONCRETE TOPPING	5,000 PSI @ 28 DAYS
CONCRETE REINFORCING STEEL	60 KSI, ASTM A615
WELDED WIRE REINFORCEMENT	65 KSI, ASTM A185

2. ANCHORS INTO CONCRETE (UNO)

ANCHOR RODS	ASTM F1554 (SEE SCHEDULE FOR GRADE)
ADHESIVE ANCHORS	HILTI HAS-E THREADED ROD WITH HIT-HY 200 V3 INJECTION ADHESIVE OR APPROVED EQUAL
EXPANSION ANCHORS	HILTI KWIK BOLT III OR APPROVED EQUAL
POWDER DRIVEN FASTENERS	HILTI DS OR APPROVED EQUAL

3. REINFORCING CLEAR COVER (MIN)

   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
   CONCRETE EXPOSED TO EARTH OR WEATHER
   #6 THROUGH #18 BARS: 2"
   #5 BARS AND SMALLER: 1 1/2"
   CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
   SLABS, WALLS, & JOISTS
   #14 & #18 BARS: 1 1/2"
   #11 BARS AND SMALLER: 3/4"
   BEAMS & COLUMNS
   PRIMARY REINFORCEMENT, TIES, & SPIRALS: 1 1/2"

4. UNLESS LONGER LENGTH IS REQD BY ACI CODE OR NOTED OTHERWISE ON THE DRAWINGS, ALL REINFORCING SHALL BE LAPPED PER SCHEDULE:

CLASS "B" TENSIONS LAP SPLICE LENGTHS

BAR SIZE	4,000 PSI CONCRETE STANDARD	4,000 PSI CONCRETE TOP BAR	4,000 PSI CONCRETE STD HOOK DEV LENGTH	5,000 PSI CONCRETE STANDARD	5,000 PSI CONCRETE TOP BAR	5,000 PSI CONCRETE STD HOOK DEV LENGTH
#3	19"	24"	8"	17"	22"	7"
#4	25"	33"	10"	23"	29"	9"
#5	31"	41"	12"	28"	36"	11"
#6	37"	49"	15"	34"	43"	13"
#7	54"	71"	17"	49"	63"	15"
#8	62"	81"	19"	56"	72"	17"
#9	70"	91"	22"	62"	81"	20"
#10	79"	102"	25"	69"	90"	22"
#11	87"	113"	27"	76"	99"	24"

A. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW.
B. SPLICE LENGTHS ARE BASED ON THE DIAMETER OF THE LARGER BAR BEING SPLICED.
C. MINIMUM HOOKED BAR EXTENSION = MIN BEND DIAMETER + 12db.
D. DIVIDE SPLICE LENGTHS BY 1.3 TO GET DEVELOPMENT LENGTHS.
E. UNLESS LONGER LENGTH IS REQD BY ACI CODE

5. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE LATEST EDITION OF THE ACI MANUAL OF CONCRETE PRACTICE.
6. ALL CONCRETE, UNLESS SPECIFICALLY NOTED, SHALL BE NORMAL WEIGHT (145 PCF).
7. CALCIUM CHLORIDE AND OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED. NO ALUMINUM, UNLESS COATED WITH A REACTION INHIBITOR COATING, SHALL BE EMBEDDED IN CONCRETE.
8. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED TO 6% (+/- 1.5%) AND HAVE A MAXIMUM 1" AGGREGATE.
9. EXTERIOR BASEMENT AND EXPOSED RETAINING WALLS SHALL HAVE VERTICAL CONTROL JOINTS SPACED NOT MORE THAN 30'-0" ON CENTER. EACH JOINT SHALL BE ¾" DEEP AND V-CHAMFERED ON BOTH SIDES.
10. STRAIGHT LENGTHS OF FROST/FOUNDATION WALLS SHALL HAVE AN EXPANSION JOINT AT 300 FT MAX SPACING.
11. PIPE SLEEVES OVER 1 1/2" IN DIAMETER WHICH PASS THROUGH CONCRETE WALLS OR SLABS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE. ALL OTHER SLEEVES SHALL BE 18 GAUGE GALVANIZED SHEET METAL. SLEEVES SHALL BE ONE SIZE LARGER THAN OUTSIDE DIAMETER OF PIPE PASSING THROUGH SLEEVE. VERIFY SIZE AND NUMBER WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS. SEE TYPICAL FOUNDATION DETAILS.
12. NO ALUMINUM CONDUITS, SLEEVES, EMBEDS, ETC. SHALL BE PLACED IN CONCRETE.
13. HORIZONTAL WALL REINFORCEMENT SHALL BE MADE CONTINUOUS AT ALL CORNERS OR CORNER BARS PROVIDED. SEE TYPICAL FOUNDATION DETAILS.
14. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DIMENSIONS OF CONCRETE REVEALS, NOTCHES, REGLETS, DRIPS, PADS, CURBS, CHAMFER BLOCKOUTS AT DOORWAYS, AND ALL OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
15. SUBMIT CONCRETE DESIGN MIXES TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION. SUBMIT HISTORICAL STRENGTH TESTING DATA FOR EACH MIX PER ACI 318 OR AUTHORITY HAVING JURISDICTION.
16. SUBMIT STEEL REINFORCEMENT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

EXISTING CONCRETE SLAB NOTES

1. DO NOT CORE OR CUT ANY OPENINGS INTO THE FLOOR OR ROOF SLAB AT THE COLUMN CAPS (THICKENED SLAB AREAS NEAR COLUMNS).
2. CORES OR OPENINGS LESS THAN 12" ARE APPROVED IF THEY ARE NO LESS THAN 60" CLEAR SPACE AWAY FROM ANY OTHER FLOOR/ROOF OPENING.
3. PIPE/CONDUIT CORES LESS THAN 6" IN DIAMETER MUST BE SPACED AT LEAST 4 DIAMETERS CLEAR BETWEEN CORES.

MASONRY NOTES

1. MATERIAL SPECIFICATIONS

CONCRETE MASONRY UNITS	F'm= 2,250 PSI, ASTM C90 NORMAL WEIGHT UNITS
MORTAR: TYPE S	1,900 PSI, ASTM C270
MASONRY GROUT	3,000 PSI, ASTM C476
MASONRY REINFORCING STEEL	60 KSI, ASTM A615

2. ALL MASONRY WALLS SHALL HAVE LADDER TYPE JOINT REINFORCING CONSISTING OF TWO W1.7 LONGITUDINAL WIRES LOCATED VERTICALLY 16" OC.
3. ALL HORIZONTAL JOINT REINFORCING SHALL HAVE A MINIMUM OF 5/8" COVER AND BE HOT DIP GALVANIZED.
4. PROVIDE A VERTICAL REINFORCING BAR OF THE SAME SIZE AS THE TYPICAL VERTICAL WALL REINFORCING BAR IN GROUTED CELL, FULL HEIGHT, WITHIN 16" EACH SIDE OF WALL OPENINGS (DOORS AND WINDOWS ETC) AND WITHIN 8" OF CONTROL JOINTS AND ENDS OF WALLS AND WALL INTERSECTIONS. WHEN WALLS ARE DESIGNATED AS SHEAR WALLS OR THE WALL OPENING IS 6'-0" OR GREATER 2X THE TYPICAL VERTICAL BAR SHALL BE USED.
5. CELLS UNDER LINTEL BEARING SHALL BE FULLY GROUTED TO THE UNDERSIDE OF THE LINTEL.
6. ALL CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE GROUTED SOLID. GROUT LIFT HEIGHTS SHALL NOT EXCEED 4'-0", GROUT POUR HEIGHTS SHALL NOT EXCEED 24'-0". MECHANICAL CONSOLIDATION BETWEEN LIFTS IS REQUIRED. CLEAN-OUTS ARE REQUIRED AT THE BASE OF EACH GROUT POUR THAT EXCEEDS 5'-0".
7. REINFORCEMENT EMBEDDED IN GROUT SHALL HAVE A THICKNESS OF GROUT BETWEEN THE MASONRY UNIT AND THE REINFORCEMENT OF NOT LESS THAN ½".
8. BLOCK SHALL BE LAID IN RUNNING BOND PATTERN, AND SHALL INTERLOCK AT ALL WALL CORNERS AND INTERSECTIONS UNO.
9. CMU WALLS SHALL BE REINFORCED WITH #4 VERTICAL BARS AT 48" OC UNO.
10. CMU WALLS SHALL HAVE VERTICAL CONTROL JOINTS SPACED NOT MORE THAN 24'-0" OC.
11. UNLESS NOTED OTHERWISE ON THE DRAWINGS ALL REINFORCING SHALL BE LAPPED PER SCHEDULE.
12. USE FULL MORTAR BEDDING FOR ALL EXT AND LOAD-BEARING WALLS.

MASONRY REINFORCEMENT LAP SPLICE LENGTHS

BAR SIZE	F'm = 2,250 PSI
#3	12"
#4	12"
#5	18"
#6	35"
#7	48"
#8	74"
#9	96"

STEEL DECK NOTES

1. MATERIAL SPECIFICATIONS

   DECK — 44 KSI MINIMUM — ASTM A653 (GALV) / ASTM A1008 (UNCOATED OR PAINTED)

2. STEEL DECK SHALL BE TYPE, GAUGE, AND COATING AS INDICATED ON THE DOCUMENTS
3. SUBSTITUTE MECHANICAL FASTENERS FOR WELDS WHEN THE SUPPORTING ELEMENT HAS A THICKNESS OF 1/4" OR LESS.
4. MECHANICAL FASTENERS MAY BE SUBSTITUTED FOR WELDS IF INFORMATION IS PROVIDED TO THE ENGINEER CONFIRMING EQUIVALENT DIAPHRAGM STRENGTH AND STIFFNESS IS ACHIEVED.
5. ALL STEEL DECK SHALL MEET OR EXCEED TO THE MINIMUM SECTION PROPERTIES LISTED IN THE STEEL DECK INSTITUTE DESIGN MANUAL.
6. PLACE STEEL DECK OVER A MINIMUM OF THREE (3) SPANS IN THE SPAN DIRECTION NOTED ON PLAN UNLESS FRAMING GEOMETRY REQUIRES THE USE OF SINGLE/DOUBLE SPAN DECKS.
7. ROOF DECK END LAPS SHALL OCCUR AT SUPPORTS WITH A 4" MINIMUM LAP LENGTH PAST THE CENTERLINE OF THE SUPPORTS.
8. DECK SHALL HAVE PAINTED FINISH UNLESS NOTED OTHERWISE.
9. GALVANIZED DECK SHALL HAVE A MINIMUM COATING OF G60.
10. THE MAXIMUM LOAD THAT MAY BE HUNG FROM STEEL ROOF DECK IS 50LBS, PROVIDED THAT NO OTHER LOADS ARE HUNG FROM THE DECK WITHIN A 30" RADIUS. HANG ALL DUCTWORK, PIPING, ETC THAT EXCEEDS THIS CRITERION DIRECTLY FROM STRUCTURAL STEEL OR SUPPLEMENTAL STEEL MEMBERS.
11. DECK SHALL BE STORED OFF GROUND WITH ONE END ELEVATED TO PROVIDE DRAINAGE AND SHALL BE PROTECTED FROM THE ELEMENTS WITH A WATERPROOF COVERING, VENTILATED TO AVOID CONDENSATION.

SUPPORT FASTENERS

SUPPORT FASTENERS SHALL BE 5/8" PUDDLE WELDS AT PANEL LAYOUT ENDS, INTERMEDIATE SUPPORTS, AND PANEL LAPS.

TYPE 1.5B DECK: PANEL WELDS SHALL BE AT A 36/4 PATTERN UNO
TYPE 3N DECK: PANEL WELDS SHALL BE AT A 24/4 PATTERN UNO

SIDELAP FASTENERS

SIDELAP FASTENERS SHALL BE #10 TEK SCREWS
SIDELAP FASTENERS SHALL BE LOCATED AT 2'-0"OC UNO

SUPPORT FASTENER LAYOUT - TYPE 1.5B

SUPPORT FASTENER LAYOUT - TYPE 3N

SNOW DRIFT SURCHARGE LOADING DIAGRAM

NOTE: SNOW DRIFT SURCHARGE IS ADDITIVE TO UNIFORM SNOW LOADS

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON ON EXISTING STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
2. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION.
4. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND EXISTING FIELD CONDITIONS PRIOR TO THE START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH ARCHITECT. DO NOT SCALE DRAWINGS.
5. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, AND OTHER DESIGN CONSULTANT'S DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS. ANY APPARENT DISCREPANCIES, LIMITATIONS OR CONCERNS RESULTING FROM THIS COORDINATION SHOULD BE RESOLVED WITH THE ARCHITECT IMMEDIATELY.
6. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTING. NOTIFY THE ARCHITECT OF ANY DISCREPANCY IMMEDIATELY.
7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL BUILDING MATERIALS AND COMPONENTS. COMPONENT LOCATIONS ARE SHOWN FOR DESIGN INTENT, NOT EXACT LOCATION, SPECIFICALLY. INDEPENDENTLY PREPARED SHOP DRAWINGS ARE REQUIRED OF ALL TRADES FOR COORDINATION AND BEST PRACTICE. ERRORS OR OMISSIONS IN INSTALLATION DUE TO THE CONTRACTOR'S FAILURE TO COORDINATE THE WORK WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. ALL ABANDONED FOOTINGS, UTILITIES, AND OTHER STRUCTURES THAT WILL INTERFERE WITH NEW CONSTRUCTION ARE TO BE REMOVED.

STEEL NOTES

1. MATERIAL SPECIFICATIONS

WIDE FLANGE SECTIONS		50 KSI, ASTM A992
ANGLES, PLATES, AND CHANNELS		36 KSI, ASTM A36
SQUARE AND RECTANGULAR HSS		46 KSI, ASTM A500 GRADE B
PIPE		35 KSI, ASTM A53 GRADE B
HIGH STRENGTH BOLTS	3/4" UNO	ASTM A325-N
HEAVY HEX NUTS		ASTM A563
WELDING ELECTRODES	3/16" UNO	E70XX AWS 5.1
ANCHOR RODS		36 KSI, ASTM F1554
TENSION CONTROL - TWIST OFF BOLT/ NUTS WASHER ASSEMBLY		ASTM F3125 GRADE F1852
WASHERS		ASTM F436
HEADED WELDED STUDS		ASTM A108, TYPE B

2. ALL CONNECTION BOLTING IS TO BE WITH A-325N BOLTS UNLESS NOTED OTHERWISE. BOLTS NEED ONLY BE TIGHTENED TO THE SNUG-TIGHT CONDITION. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.
3. HEADED WELDED STUDS ARE TO BE NELSON STUDS OR APPROVED EQUAL.
4. ALL WELDING SHALL COMPLY WITH THE AWS D1.1 STRUCTURAL WELDING CODES. ALL WELDING TO BE PERFORMED BY AWS PRE-QUALIFIED WELDERS CERTIFIED FOR THE GIVEN APPLICATION.
5. SEE SPECIFICATIONS FOR REQUIRED FINISHED TO BE APPLIED TO STEEL FRAMING.
6. SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF STRUCTURAL STEEL COMPONENTS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING OF STRUCTURE DURING CONSTRUCTION.
8. THE CONNECTION DETAILS SHOWN ON THE DRAWINGS ARE CONCEPTUAL AND DO NOT INDICATE THE REQUIRED COMPONENT SIZES, WELDS, OR DIMENSIONS UNLESS SPECIFICALLY NOTED. FINAL DESIGN & DETAILING OF THE CONNECTIONS IS THE RESPONSIBILITY OF THE FABRICATOR. PERFORM DESIGN USING INDUSTRY STANDARDS AND CRITERIA DEFINED IN THE CONTRACT DOCUMENTS. SUBMIT DESIGN CALCULATIONS PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
9. ALL REACTIONS SHOWN ON THE PLAN ARE ASD FACTORED. DESIGN CONNECTIONS FOR 13k MIN ASD FACTORE REACTION, UNLESS NOTED OTHERWISE.

GALVANIZED STEEL NOTES

1. GALVANIZING FOR IRON OR STEEL PRODUCTS AND HARDWARE SHALL CONFORM TO ASTM A123, A153.
2. GALVANIZING FOR STEEL DECK SHALL CONFORM TO ASTM A924.
3. ALL GALVANIZED MEMBERS SHALL BE GALVANIZED BY THE "DRY GALVANIZING PROCESS" AS DEFINED BY AGA (FLUX AND GALVANIZING APPLIED IN SEPARATE STEPS). PROVIDE ALTERNATE COST TO GALVANIZE PER THE "WET" METHOD (FLUX AND GALVANIZING IN ONE STEP). GALVANIZED MEMBERS SHALL NOT BE QUENCH COOLED.
4. ALL WELDING OF GALVANIZED MATERIAL SHALL BE PERFORMED IN SUCH A MANNER AS TO SATISFY ALL OSHA AND AWS REQUIREMENTS. ALL FIELD WELDED LOCATIONS SHALL BE PREPARED AND PRIMED WITH A ZINC RICH PRIMER PRIOR TO PAINTING PER THE MANUFACTURES RECOMMENDATIONS. THE SPECIFIC PRIMER TO BE USED SHALL BE TNEMEC SERIES 90-97 TNEME-ZINC @ 3.0-4.0 MILS DRY FILM THICKNESS OR APPROVED EQUAL.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL

1. EXPOSED TUBE STEEL FRAMES IN ENTRY VESTIBULES TO BE FABRICATED AND FIELD CONNECTED TO AN AISC AESS CATEGORY 3 LEVEL.

1 ROOF SNOW DRIFT PLAN
SCALE: 1" = 20'-0"

SHEET LIST

SHEET NUMBER	SHEET NAME	CURRENT REVISION DATE	CURRENT REVISION DESCRIPTION
S001	STRUCTURAL NOTES	08/14/2024	Addendum 2
S101	FOUNDATION PLAN	08/14/2024	Addendum 2
S102	SECOND FLOOR FRAMING PLAN		
S103	ROOF FRAMING PLAN	08/14/2024	Addendum 2
S301	FOUNDATION DETAILS & SCHEDULES		
S401	MASONRY DETAILS & SCHEDULES		
S501	STEEL DETAILS & SCHEDULES	08/14/2024	Addendum 2
S502	ELEVATION DETAILS		

A02

DESIGN LOADS

1. DESIGN CODE DATA

   2015 INTERNATIONAL BUILDING CODE
   WISCONSIN STATE BUILDING CODE
   ASCE 7-10: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
   AISC 360-10: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
   ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   ACI 530-13: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
   ANSI/AWC NDS-2015: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
   AWC SDPWS-2015: SPECIAL DESIGN PROVISION FOR WIND AND SEISMIC

2. RISK CATEGORY= III (PER ASCE 7-10 TABLE 1.5-1)
3. DEAD LOADS:

   ROOF — 20 PSF

4. ROOF LIVE LOAD:

   LESS THAN 200 SF — 20 PSF
   200 SF TO 600 SF — LINEAR INTERPOLATE
   GREATER THAN 600 SF — 12 PSF

5. SNOW LOADS:

   MAIN ROOF
   P_g = 40 PSF
   P_f = 28 PSF
   C_e = 0.9
   C_t = 1.0
   I = 1.1

   SEE SNOW DRIFT PLAN FOR ADDITIONAL SNOW DRIFT SURCHARGE LOADING

6. WIND DESIGN CRITERIA

   WIND SPEED = 120 MPH
   EXPOSURE = B
   ENCLOSURE CLASSIFICATION = ENCLOSED
   K_d= 0.85
   I = 1.0
   K_{zt}= 1.0
   BASE VELOCITY PRESSURE, Q_h=22.2 PSF

   COMPONENT & CLADDING WIND PRESSURES [PSF] PER (ASCE 7-10 FIGURE 30.4) [ULTIMATE LOADING]

	COMPONENT TRIBUTARY AREA			
ROOF	10SF	50SF	100SF	500SF
ZONE 1 NEG	-26.1	-24.6	-23.9	-23.9
ZONE 2 NEG	-43.9	-33.0	-28.4	-28.4
ZONE 3 NEG	-66.0	-39.7	-28.4	-28.4
ALL ZONE POS.	16.0	16.0	16.0	16.0
ZONE 2 OVERHANG	-37.7	-36.1	-35.5	-24.4
ZONE 3 OVERHANG	-62.0	-31.0	-17.7	-17.7
PARAPET	10SF	20SF	50SF	100SF
CASE A ZONE 2	60.2	54.4	46.8	41.1
CASE A ZONE 3	60.2	54.4	46.8	41.1
CASE B ZONE 2	-42.1	-40.0	-37.2	-35.1
CASE B ZONE 3	-48.2	-45.0	-40.7	-37.5
WALLS	10SF	100SF	200SF	500SF
ZONE 4 NEG	-25.9	-22.4	-21.3	-19.9
ZONE 5 NEG	-31.9	-24.9	-22.7	-19.9
ALL ZONE POS.	23.9	20.4	19.3	17.9

   POSITIVE AND NEGATIVE SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY. END ZONES EXTEND FROM CORNERS OF BUILDING A DISTANCE EQUAL TO 10% LEAST HORIZONTAL BUILDING DIMENSION BUT NOT LESS THAN 3'-0"

7. SEISMIC DESIGN CRITERIA

   S_s= 0.053g
   S_1= 0.036g
   SEISMIC SITE CLASSIFICATION =D
   S_{DS} = 0.057g
   S_{D1} = 0.057g
   SEISMIC DESIGN CATEGORY =A
   SEISMIC BASE SHEAR (N-S)= <1.0 KIPS
   SEISMIC BASE SHEAR (E-W)= <1.0 KIPS
   ANALYSIS PROCEDURE= EQUIVALENT LATERAL FORCE

8. MAXIMUM ALLOWABLE DEFLECTION CRITERIA:

ROOF FRAMING*:	L/360 LIVE LOAD; L/240 TOTAL LOAD
STEEL/PRECAST FLOOR FRAMING :	L/360 LIVE LOAD; L/240 TOTAL LOAD
EXTERIOR WALLS*:	L/240 WIND LOAD
BRICK :	L/

* APPLY 0.42 FACTOR TO C&C WIND LOAD TABLE FOR DEFLECTION CRITERIA OF ROOF FRAMING AND EXTERIOR WALLS

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 INNOVATION CENTER

Project Location: 405 8TH STREET NORTH LA CROSSE, WI

Sheet Title: STRUCTURAL NOTES

HSR / Ramaker Project Number: 24003 / 60597

Project Date: AUGUST 2024

Drawn By: KLC

Key Plan:

Revisions:

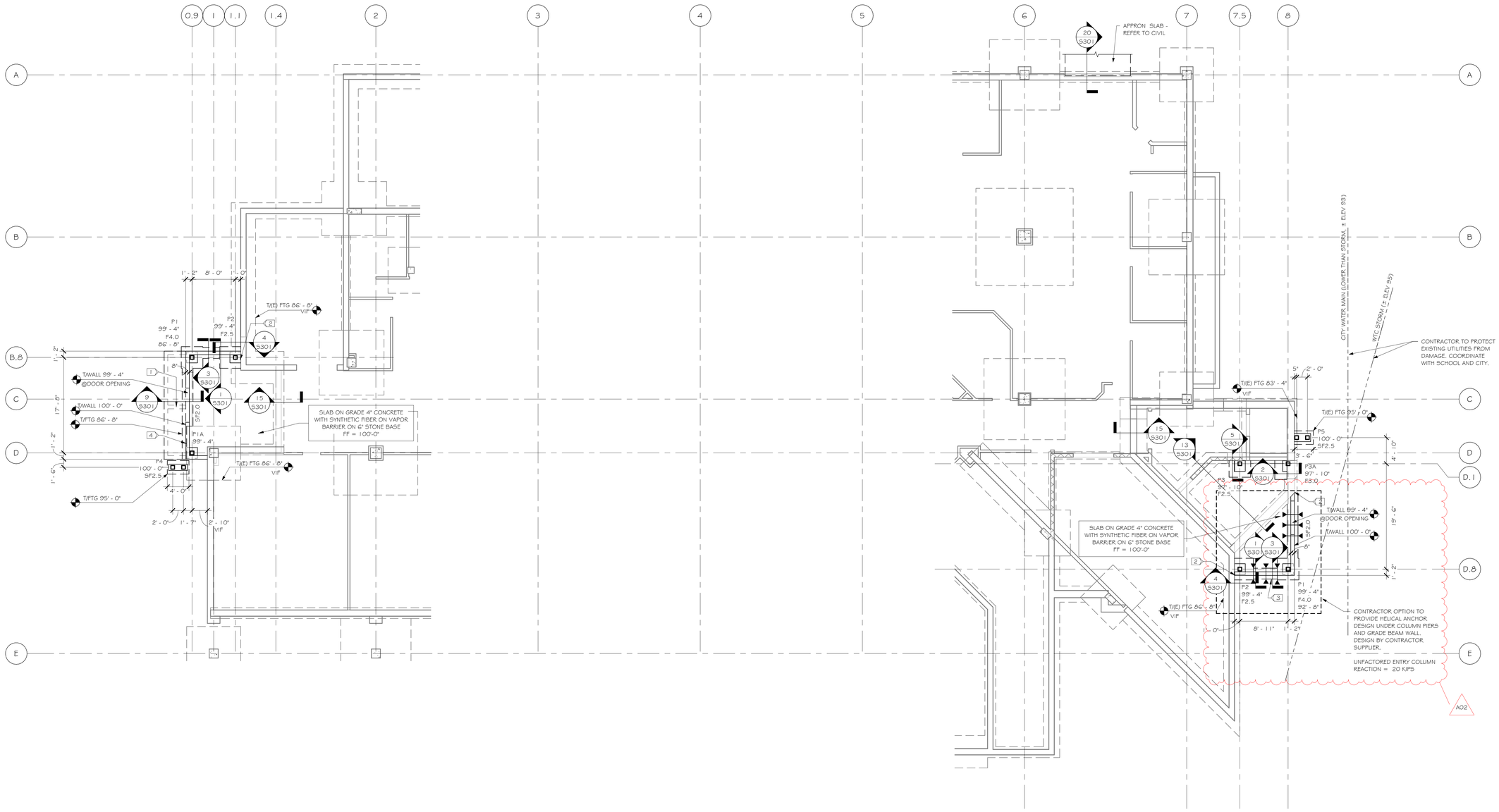
No.	Description	Date
A01	Addendum 1	08/09/2024
A02	Addendum 2	08/14/2024

Graphic Scale: VARIES

Last Update: 8/14/2024 10:13:20 AM

S001

FOUNDATION PLAN NOTES
1. VERIFY ALL DIMENSIONS W/ ARCH DRAWINGS
2. SLAB ON GRADE SHALL BE 4" NORMAL WEIGHT CONCRETE W/ SYNTHETIC FIBERS, SEE S001
3. TOP OF FIRST FLOOR SLAB ELEVATION 100'-0" UNO
4. TOP OF FOUNDATION WALL ELEVATION 100'-0" UNO
5. SEE S001 FOR GENERAL STRUCTURAL NOTES & ABBREVIATIONS
6. SEE S301 FOR TYPICAL FOUNDATION DETAILS & SCHEDULES
7. SEE S401 FOR TYPICAL MASONRY DETAILS
8. SEE S501 FOR TYPICAL STEEL DETAILS & SCHEDULES & BASE PLATE INFO
9. ELEVATION NOTED IN PIERMARK XX-X" = TOP OF FOOTING OR TOP OF PIER



1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

STRIP FOOTING SCHEDULE

TYPE	WIDTH	THICKNESS	BOTTOM BARS	TOP BARS	COMMENTS
SF2.0	2' - 0"	1' - 0"	(3)#5xCONT		
SF2.5	2' - 6"	1' - 0"	(3)#5xCONT		

CONCRETE PIER SCHEDULE

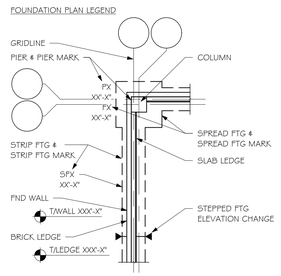
TYPE	B	H	b	h	VERT BARS	TIES	COMMENTS
P1	2' - 0"	2' - 0"	6"	6"	(5)#8	#3@12"OC	ON S301
P1A	2' - 0"	2' - 0"	6"	6"	(5)#8	#3@12"OC	DOWEL VERT BARS INTO TOP OF EXISTING FTG
P2	2' - 0"	2' - 0"	0"	6"	(5)#8	#3@12"OC	ON S301
P3	2' - 0"	2' - 0"	0"	0"	(5)#8	#3@12"OC	ON S301
P3A	2' - 0"	1'0"	0"	0"	(6)#6	#3@12"OC	ON S301
P4	3' - 6"	1' - 2"	0"	0"	(10)#6	#3@12"OC	
P5	3' - 0"	1' - 6"	0"	0"	(10)#6	#3@12"OC	

SPREAD FOOTING SCHEDULE

TYPE	LENGTH	WIDTH	THICKNESS	BOTTOM BARS	TOP BARS	COMMENTS
F3.0	3' - 6"	2' - 3"	2' - 0"	(2)#5 LONG x (4)#5 TRANSVERSE	(3)#5 LONG, (4)#5 TRANSVERSE	REFER TO 1/S301
F2.5	4' - 0"	2' - 6"	2' - 0"	(3)#5 LONG x (4)#5 TRANSVERSE	(4)#5 LONG, (4)#5 TRANSVERSE	7/S301
F4.0	4' - 0"	4' - 0"	1' - 0"	(4)#5 EW		7/S301

Keynote Legend	
Key Value	Keynote Text
1	INTERMEDIATE STOOP WALL
2	MATCH BOTTOM OF (E) FOOTING. DOWEL FOOTING TO (E) FOOTING WITH (2)#4x18", DOWEL WALL TO (E) WALL WITH (1)#4x18" TOP AND BOTTON OF WALL.
3	CONTRACTOR PROVIDE MINIMUM OF 2 STEPS BETWEEN FOOTING PADS.
4	CONTRACTOR COORDINATE NEW FOOTING AND WALL WITH EXISTING FOOTING. DOWEL TO EXISTING FOOTING.

FOUNDATION PLAN LEGEND



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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 INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **FOUNDATION PLAN**

HSR / Ramaker Project Number: **24003 / 60597**

Project Date: **AUGUST 2024**

Drawn By: **KLC**

Key Plan:

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A01	Addendum 1	08/09/2024
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Graphic Scale: **VARIES**

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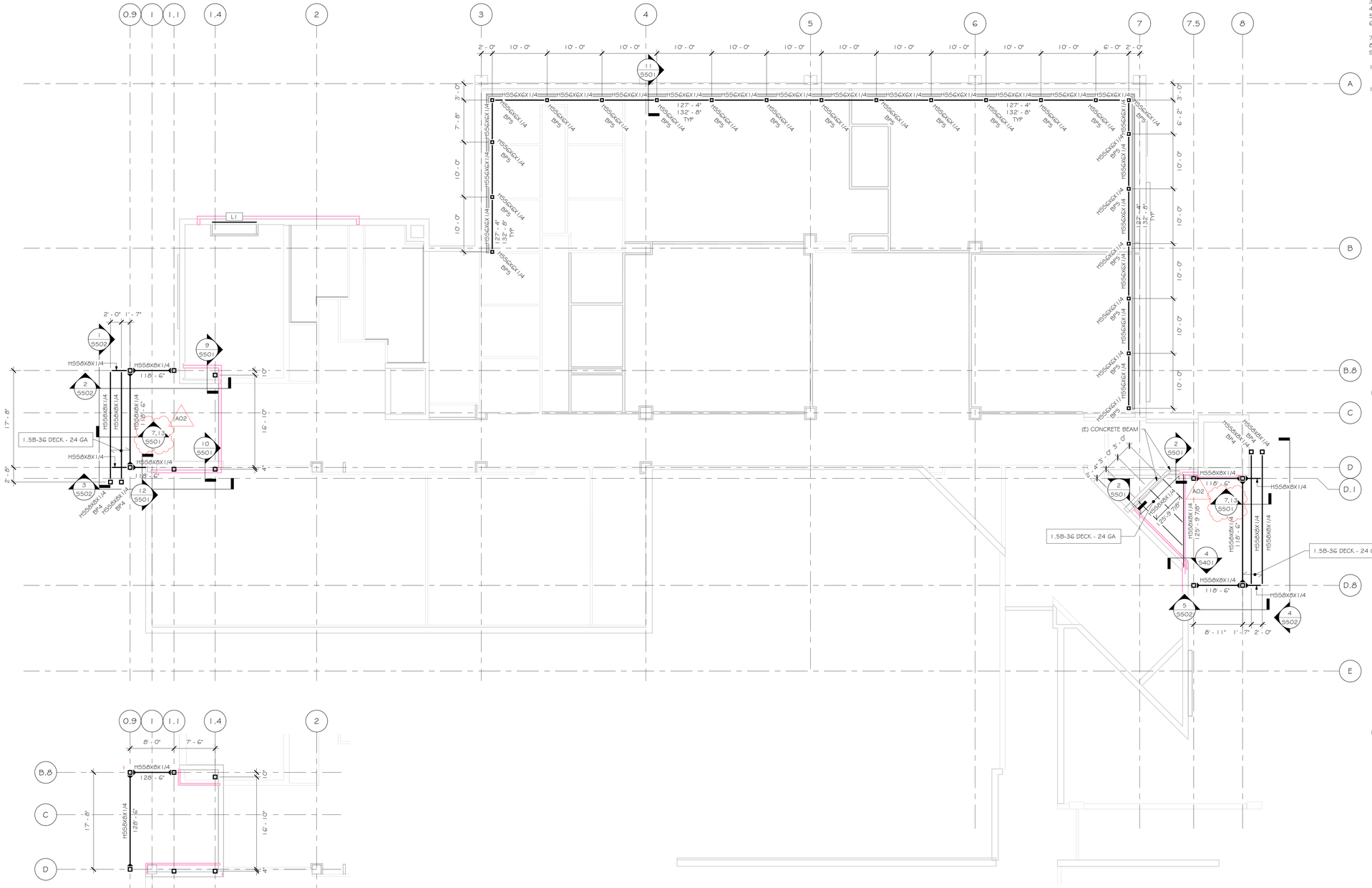
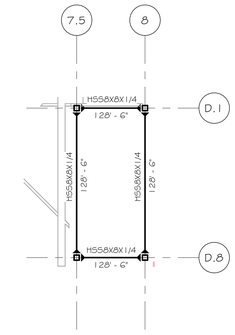
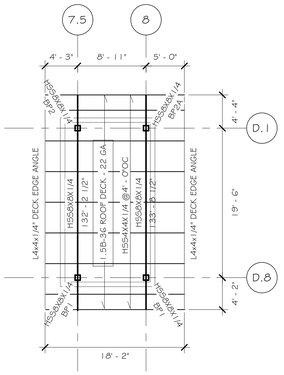
S101

PLAN NOTES
1. VERIFY ALL DIMENSIONS W/ ARCH DRAWINGS
2. SEE S001 FOR GENERAL STRUCTURAL NOTES & ABBREVIATIONS
3. SEE S301 FOR TYPICAL FOUNDATION DETAILS & SCHEDULES
4. SEE S401 FOR TYPICAL MASONRY DETAILS
5. SEE S501 FOR TYPICAL STEEL DETAILS & SCHEDULES & BASE PLATE INFO.
6. EXPOSED STEEL, INCLUDING ROOF STEEL, OF ENTRIES IS TO DETAILED, FABRICATED AND INSTALLED TO AN AESS LEVEL OF CATEGORY 3.
7. INTERIOR STEEL OF THE ENTRIES WILL BE PAINTED, NOT GALVANIZED.
8. ROOF DECK WILL BE GALVANIZED.
9. CANOPY STEEL OUTRIGGERS THROUGH THE CURTAINWALL SYSTEM, AND ROOF DECK WILL BE GALVANIZED.
10. AT ALL COLUMN/POST TO ROOF DECK LOCATIONS REMOVE SLOPED TOPPING TO REVEAL 11" CONCRETE DECK. REGROUT CONCRETE TOPPING TO MATCH EXISTING TOPPING.
11. TOP OF CONCRETE SLAB AT ROOF 125'-1 1/2". SLOPED TOPPING RESULT IN TOP OF CONCRETE TOPPING AT ± 125'-6 1/2" ALONG ROOF EDGE (VIF).

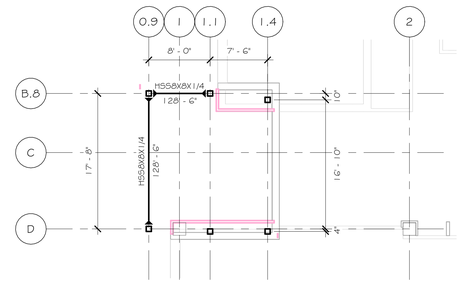


4 SOUTH TOWER LEVEL 4 FRAMING PLAN
SCALE: N.T.S.

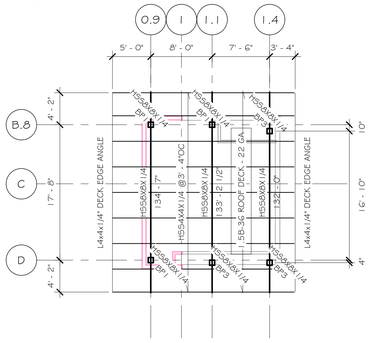




5 SOUTH TOWER ROOF FRAMING PLAN
SCALE: N.T.S.

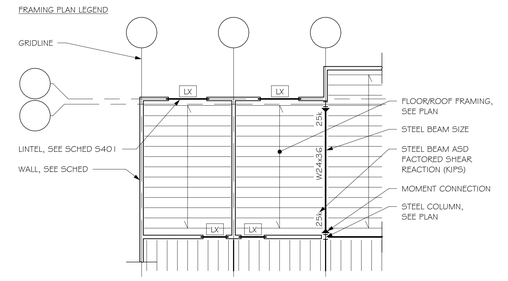


2 NORTH TOWER LEVEL 4 FRAMING PLAN
SCALE: N.T.S.



3 NORTH TOWER ROOF FRAMING PLAN
SCALE: N.T.S.

1 THIRD FLOOR/ROOF FRAMING PLAN
SCALE: 1/8" = 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 INNOVATION CENTER

Project Location: 405 8TH STREET NORTH LA CROSSE, WI

Sheet Title: ROOF FRAMING PLAN

HSR / Ramaker Project Number: 24003 / 60597

Project Date: AUGUST 2024

Drawn By: KLC

Key Plan:

Revisions:

No.	Description	Date
A01	Addendum 1	08/09/2024
A02	Addendum 2	08/14/2024

Graphic Scale: VARIES

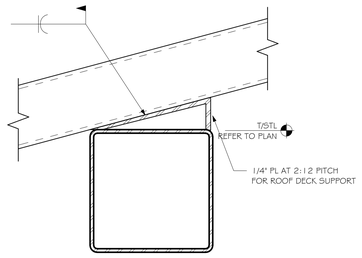
Last Update: 8/14/2024 10:13:21 AM

S103

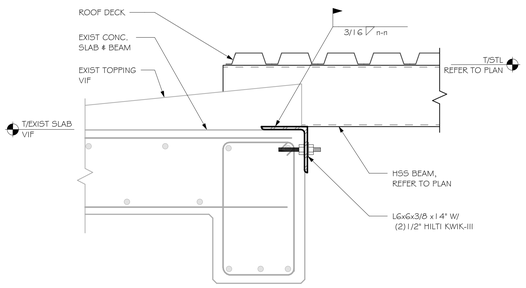
BASE PLATE SCHEDULE

TAG	TYPE	SIZE	ANCHOR RODS	B ANCHOR SPACING	N ANCHOR SPACING	COMMENTS
BP1	A	16"x16"x1"	(4) 1"Ø	12"	12"	
BP2		18"x16"x1"	(4) 1"Ø	10"	12"	REFER TO DETAIL 17/S301
BP2A		18"x16"x1"	(4) 1"Ø	10"	12"	REFER TO DETAIL 17/S301. USE HIT-HY 200 V3 + HAS WHEN ANCHORING INTO EXISTING FND WALL
BP3	A5	10"x16"x1/2"	(4) 1/2"Ø	6"	12"	HIT-HY 200 V3 + HAS ANCHOR W/ MIN. 4" EMBED
BP4	A5	8"x16"x1/2"	(4) 1/2"Ø	4"	12"	
BP5	A	16"x16"x1/2"	(4) 3/4"Ø	12"	12"	HIT-HY 200 V3 + HAS ANCHOR W/ MIN. 5" EMBED

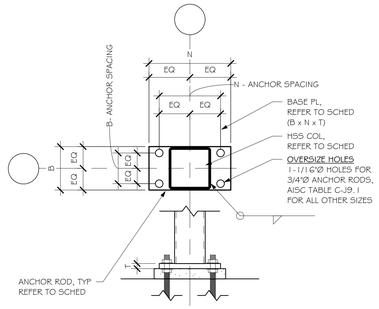
BASE PLATE SCHEDULE NOTES:
1. ANCHOR ROD MATERIAL SHALL BE F1554 GRADE 36, TYP
2. PROVIDE 1'-0" ANCHOR ROD EMBED @ CIP CONC BELOW, UNO
3. PROVIDE 0'-9" ANCHOR ROD EMBED, EPOXY SET @ PRECAST CONC BELOW, UNO



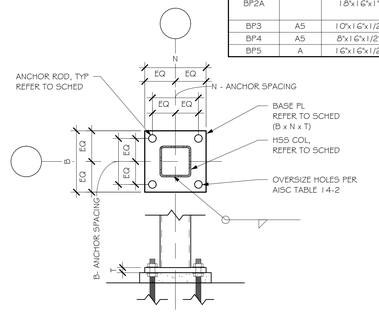
1 BEAM DECK PLATE
SCALE: N.T.S.



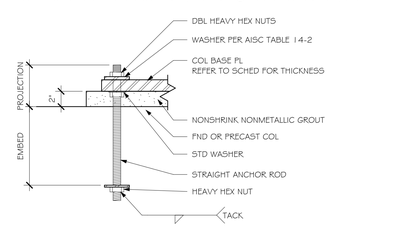
2 LOW ROOF HSS CONN. TO (E) CONCRETE BEAM
SCALE: N.T.S.



3 STEEL COLUMN BASE PLATE - TYPE A5
SCALE: N.T.S.

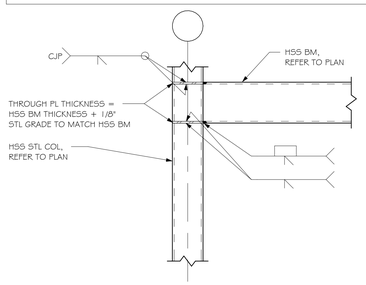


4 STEEL COLUMN BASE PLATE - TYPE A
SCALE: N.T.S.



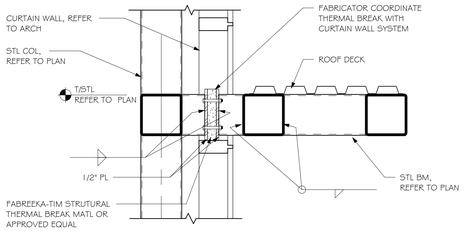
5 TYPICAL ANCHOR ROD DETAIL
SCALE: N.T.S.

NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION SHOWN ON PLAN. 15 K MIN.
2. PROVIDE ERECTION SEAT OR OFFSET ANGLES WHERE REQUIRED BY OSHA
3. LENGTH OF DOUBLE ANGLES SHALL BE AT LEAST ONE HALF THE DEPTH OF THE FRAMED MEMBER
4. ALL BOLTED DOUBLE ANGLE CONNECTIONS IN ACCORDANCE W/ AISC ALSO ACCEPTABLE

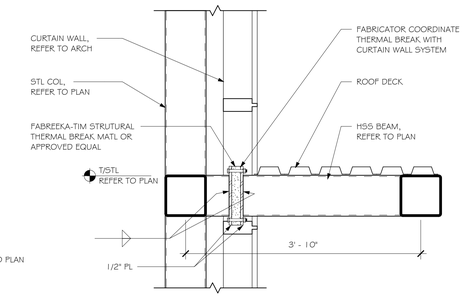


TYPICAL HSS BEAM TO HSS COLUMN MOMENT CONNECTION
SCALE: N.T.S.

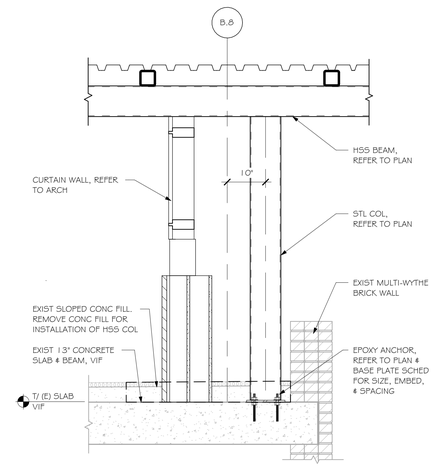
NOTES:
1. DESIGN CONNECTION TO DEVELOP 100% OF BEAM REACTION SHOWN ON PLAN. 15 K MIN.
2. PROVIDE ERECTION SEAT OR OFFSET ANGLES WHERE REQUIRED BY OSHA
3. LENGTH OF DOUBLE ANGLES SHALL BE AT LEAST ONE HALF THE DEPTH OF THE FRAMED MEMBER
4. ALL BOLTED DOUBLE ANGLE CONNECTIONS IN ACCORDANCE W/ AISC ALSO ACCEPTABLE



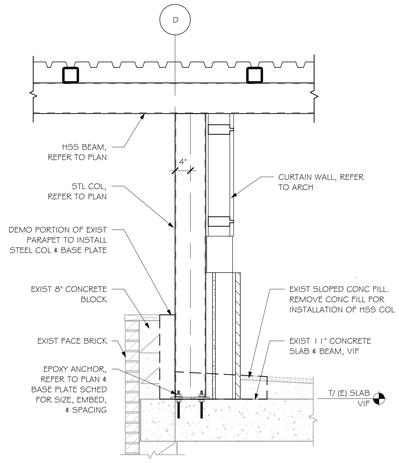
7 VESTIBULE THERMAL ISOLATION CONNECTION
SCALE: N.T.S.



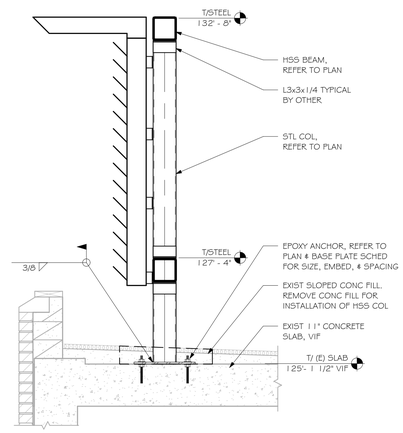
8 VESTIBULE CANOPY CONNECTION
SCALE: N.T.S.



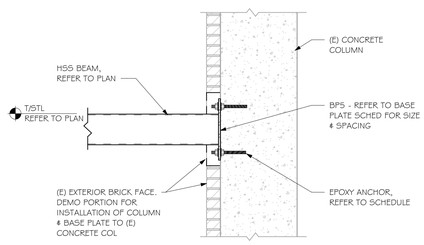
9 HSS COL CONNECTION AT ROOF
SCALE: N.T.S.



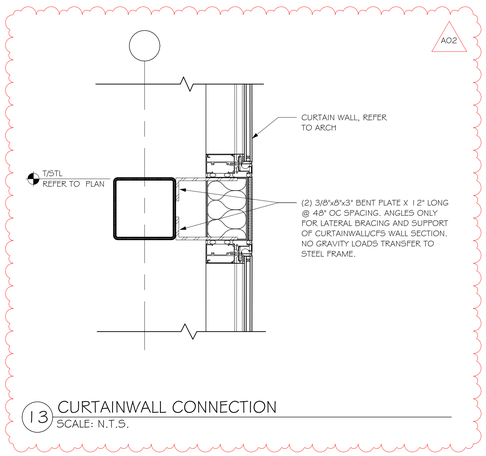
10 HSS COL CONNECTION AT ROOF
SCALE: N.T.S.



11 SCREENWALL CONNECTION
SCALE: N.T.S.



12 HSS CONNECTION TO (E) CONCRETE COL
SCALE: N.T.S.



13 CURTAINWALL CONNECTION
SCALE: N.T.S.

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 INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **STEEL DETAILS & SCHEDULES**

HSR / Ramaker Project Number: **24003 / 60597**

Project Date: **AUGUST 2024**

Drawn By: **KLC**

Key Plan:

Revisions:

No.	Description	Date
A01	Addendum 1	08/09/2024
A02	Addendum 2	08/14/2024

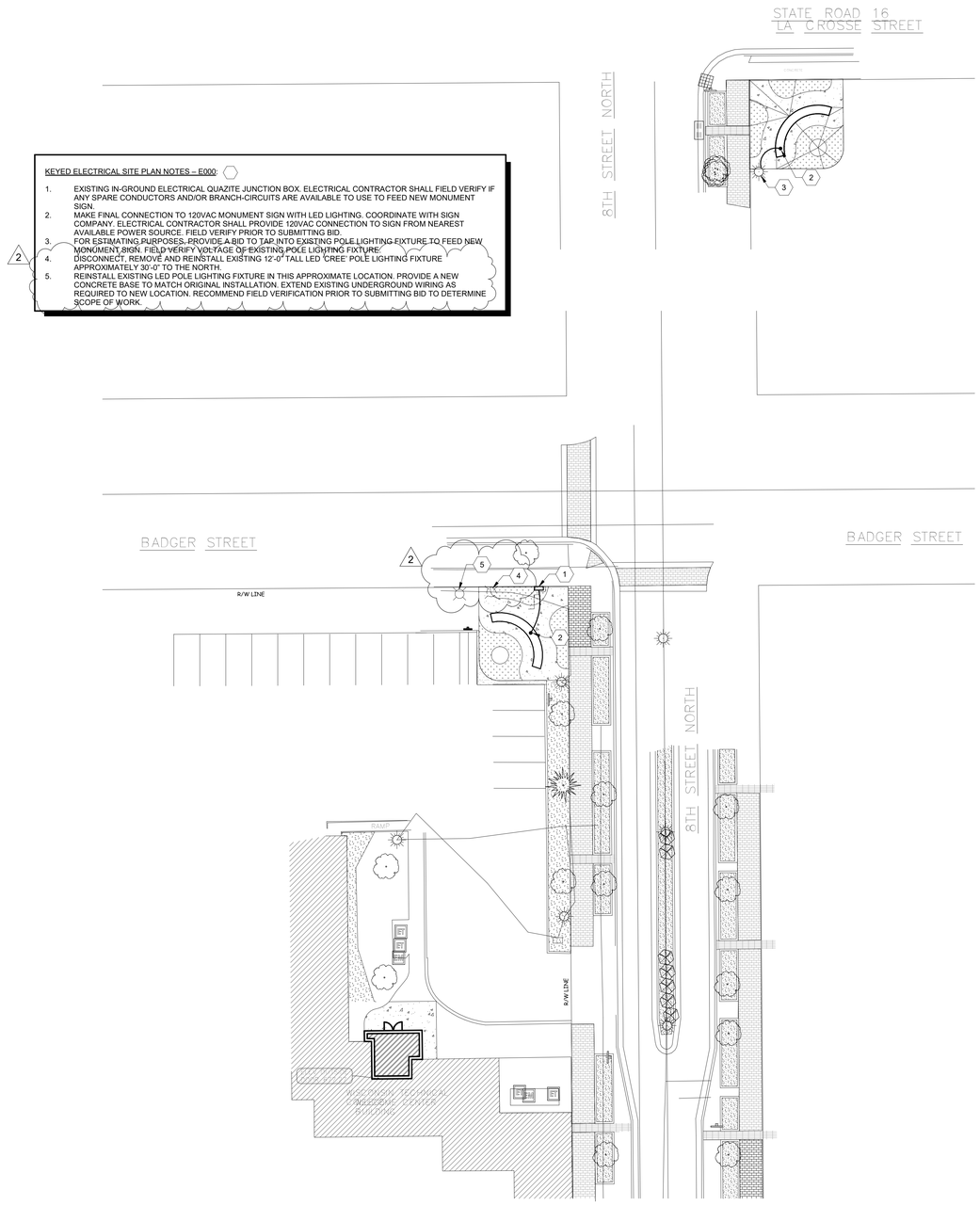
Graphic Scale: **VARIES**

Last Update: **8/14/2024 10:13:21 AM**

S501

KEYED ELECTRICAL SITE PLAN NOTES – E000:

1. EXISTING IN-GROUND ELECTRICAL QUAZITE JUNCTION BOX. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IF ANY SPARE CONDUCTORS AND/OR BRANCH-CIRCUITS ARE AVAILABLE TO USE TO FEED NEW MONUMENT SIGN.
2. MAKE FINAL CONNECTION TO 120VAC MONUMENT SIGN WITH LED LIGHTING. COORDINATE WITH SIGN COMPANY. ELECTRICAL CONTRACTOR SHALL PROVIDE 120VAC CONNECTION TO SIGN FROM NEAREST AVAILABLE POWER SOURCE. FIELD VERIFY PRIOR TO SUBMITTING BID.
3. FOR ESTIMATING PURPOSES, PROVIDE A BID TO TAP INTO EXISTING POLE LIGHTING FIXTURE TO FEED NEW MONUMENT SIGN. FIELD VERIFY VOLTAGE OF EXISTING POLE LIGHTING FIXTURE.
4. DISCONNECT, REMOVE AND REINSTALL EXISTING 12'-0" TALL LED 'CREE' POLE LIGHTING FIXTURE APPROXIMATELY 30'-0" TO THE NORTH.
5. REINSTALL EXISTING LED POLE LIGHTING FIXTURE IN THIS APPROXIMATE LOCATION. PROVIDE A NEW CONCRETE BASE TO MATCH ORIGINAL INSTALLATION. EXTEND EXISTING UNDERGROUND WIRING AS REQUIRED TO NEW LOCATION. RECOMMEND FIELD VERIFICATION PRIOR TO SUBMITTING BID TO DETERMINE SCOPE OF WORK.



NORTH

1 ELECTRICAL SITE PLAN

1" = 20'-0"

LIGHTING

- RECESSED FLUORESCENT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE. 'A' INDICATES FIXTURE TYPE. 'b' INDICATES SWITCH CONTROL.
- SURFACE FLUORESCENT FIXTURE SEE LIGHTING FIXTURE SCHEDULE. 'A' INDICATES FIXTURE TYPE. 'b' INDICATES SWITCH CONTROL.
- WALL BRACKET LIGHTING FIXTURE SEE LIGHTING FIXTURE SCHEDULE 'A' INDICATES FIXTURE TYPE
- SURFACE-MOUNTED FIXTURE-SEE LIGHTING FIXTURE SCHEDULE FOR DECRIPTION AND MANUFACTURER 'A' INDICATES FIXTURE TYPE
- PENDANT-MOUNTED LIGHTING FIXTURE 'A' INDICATES FIXTURE TYPE
- RECESS-MOUNTED DOWNLIGHT-SEE LIGHTING FIXTURE SCHEDULE FOR DECRIPTION AND MANUFACTURER 'A' INDICATES FIXTURE TYPE
- RECESSED WALL-WASH OR SPOTLIGHTING FIXTURE, DIRECTION AS INDICATED BY ARROW 'A' INDICATES FIXTURE TYPE
- WALL MOUNTED FIXTURE-SEE FIXTURE SCHEDULE 'A' INDICATES FIXTURE TYPE
- POLE MOUNTED LIGHT FIXTURE
- FLUORESCENT STRIP FIXTURE 'A' INDICATES FIXTURE TYPE
- TRACK LIGHTING FIXTURE WITH NUMBER OF FIXTURES INDICATED.
- LIGHTING FIXTURES ON EMERGENCY POWER SOURCE 'A' INDICATES FIXTURE TYPE. 'NL' INDICATES IF FIXTURE IS TO BE ON AT ALL TIMES
- EMERGENCY LIGHTING UNIT WITH SELF-CONTAINED BATTERY AND HEADS AS INDICATED. WG = WIRE GUARD PROTECTED
- CEILING MOUNTED EMERGENCY LIGHTING UNIT WITH SELF-CONTAINED BATTERY AND HEADS AS INDICATED WG = WIRE GUARD PROTECTED
- EMERGENCY LIGHTING UNIT REMOTE HEAD
- EXIT LIGHT FIXTURE, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED WG = WIRE GUARD PROTECTED
- COMBINATION EXIT LIGHT AND EMERGENCY LIGHTING UNIT
- CEILING FAN

DISTRIBUTION EQUIPMENT

- POWER DISTRIBUTION PANEL
- BRANCH CIRCUIT PANELBOARD
- ELECTRICAL METER SOCKET
- TRANSFORMER, SIZE AS INDICATED
- DISCONNECT SWITCH, NON-FUSED
- DISCONNECT SWITCH, FUSED
- MOTOR CONTROL CENTER
- POWER/LIGHTING CONTACTOR

SWITCHES

WALL SWITCH, SINGLE POLE SINGLE THROW (SPST)
LETTER INDICATES SPECIAL FEATURE.
3 = 3-WAY SWITCH
4 = 4-WAY SWITCH
D = DIMMER
DPST = DOUBLE POLE SINGLE THROW
F = FUSED
H/C = HEAT/COOL
K = KEY
M = MANUAL MOTOR STARTER
MC = MOMENTARY CONTACT SWITCH
O = OCCUPANCY SENSING
P = PILOT LIGHT
SM = SURFACE-MOUNTED
T = TIMER SWITCH, MFG & MODEL # AS INDICATED
TP = MANUAL MOTOR SWITCH, SINGLE PHASE WITH OVERLOADS AND PILOT LIGHT
V = VOLUME CONTROL
VS = 120 VOLT 25 AMP MOTOR RATED VARIABLE SPEED SWITCH
WP = WEATHER PROOF
X = EXISTING OUTLET BOX WITH NEW SWITCH

NOTE: LOWER CASE LETTERS INDICATE MULTIPLE LEVELS OF LIGHT CONTROL OF FIXTURES WITH CORRESPONDING LETTERS INDICATED ON FIXTURES

- WALL SWITCH FOR LIGHTING CONTROL SYSTEM # INDICATES UNIQUE SWITCH DESIGNATION AS SCHEDULED
- CEILING MOUNTED OCCUPANCY SENSOR
- OCCUPANCY SENSOR POWER PACK

MOTORS AND EQUIPMENT

- MAGNETIC MOTOR STARTER
- COMBINATION DISCONNECT SWITCH AND STARTER
- MANUAL MOTOR SWITCH, 1-PHASE WITH OVERLOADS AND PILOT LIGHT
- MOTOR SEE POWER AND EQUIPMENT SCHEDULE.
- EQUIPMENT CONNECTION POINT, SEE POWER AND EQUIPMENT SCHEDULE.

CONTROL DEVICES

- CONTROL PANEL
- TEMPERATURE CONTROL PANEL
- TIME CLOCK
- PHOTOCELL
- THERMOSTAT
- RELAY
- DOOR BELL
- BUZZER
- PUSH BUTTON REMOTE CONTROL STATION

SOUND SYSTEM

- SPEAKER ONLY (WALL-MOUNTED)
- SPEAKER ONLY (CEILING-MOUNTED)
- LOUD SPEAKER
- MICROPHONE JACK
- FLOOR-MOUNTED MICROPHONE JACK
- VOLUME CONTROLS
- SOUND SYSTEM CONSOLE
- SOUND SYSTEM CONTROL PANEL WITH AMPLIFIER

RACEWAY

- NEUTRAL CONDUCTOR (TYP.)
- POWER CONDUCTOR (TYP.)
- BRANCH CIRCUIT CARRYING SWITCHED CONDUCTORS
- BRANCH CIRCUIT WITHOUT SWITCHED CONDUCTORS
- LOW VOLTAGE CIRCUIT
- GROUND OR NEUTRAL CONNECTION AS INDICATED
- JUNCTION BOX
- UNDERFLOOR DUCT AND JUNCTION BOX
- EMPTY OUTLET BOX WITH BLANK COVER PLATE, SIZE AND TYPE AS INDICATED
- HOME RUN TO PANEL 'L' CIRCUIT #2 VIA RELAY #1 IN LIGHTING CONTROL PANEL 'LCP-1'. SEE PANELBOARD & LIGHTING CONTROL RELAY SCHEDULES
- HOME RUN DIRECTLY TO PANEL 'L' CIRCUIT #2
- CONDUIT ROUTED ABOVE GROUND SIZE AND TYPE AS INDICATED
- CONDUIT ROUTED BELOW GROUND OR FLOOR SLAB SIZE AND TYPE AS INDICATED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CABLE TRAY
- BUS DUCT ### INDICATES AMPACITY
- CONDUIT SEAL-OFF

NOTE: ALL BRANCH CIRCUITS TO CARRY SEPARATE GROUNDING CONDUCTOR REGARDLESS OF CONDUIT MATERIAL

RECEPTACLES

- DUPLEX RECEPTACLE WITH 3 WIRE GROUNDING
- SPECIAL PURPOSE DUPLEX RECEPTACLE LETTERS INDICATE FUNCTION – CIRCUIT RECEPT. AS INDICATED
  - AC = ABOVE COUNTER MOUNTING HEIGHT
  - D = DEDICATED USE RECEPTACLE
  - GFCI = RECEPTACLE WITH GROUND FAULT INTERRUPTION (GFI) PROTECTION
  - IG = ISOLATED GROUND
  - TVSS = TRANSIENT VOLTAGE SURGE SUPPRESSING
  - X = EXISTING OUTLET BOX W/ NEW RECEPT.
  - WP = WEATHERPROOF
  - AV = AUDIO VISUAL
  - W = WESTERN
  - S = STUDENT
- FOUR-PLEX (DOUBLE DUPLEX) RECEPTACLE
- SINGLE RECEPTACLE
- THREE-WIRE RECEPTACLE
- HALF-SWITCHED RECEPTACLE
- FLOOR MOUNTED RECEPTACLE
- FLOOR MOUNTED DUPLEX RECEPTACLE W/ SPACE FOR DATA RECEPTACLES
- SPECIAL PURPOSE OUTLET, TYPE AS INDICATED
- SURFACE-MOUNTED "PLUG MOLD", TYPE, MOUNTING HEIGHT & RECEPT. LOCATIONS AS INDICATED
- POWER POLE
- CORD AND PLUG POWER CONNECTION
- EQUIPMENT CONNECTION POINT, SEE MOTOR & EQUIPMENT SCHEDULE

DATA/COMMUNICATION EQUIP.

- DATA/COMMUNICATION BOARD (TTB) 4'-0" 3/4" THICK, GRADE AC PLYWOOD, HEIGHT AND WIDTH AS INDICATED.
- TELECOMMUNICATIONS OUTLET NUMBER INDICATES 1-DATA JACK, 1-PHONE JACK
- FLOOR MOUNTED TELECOMMUNICATIONS OUTLET LETTER OR NUMBER INDICATES FUNCTION
- FLOOR MOUNTED DUPLEX RECEPTACLE W/ SPACE FOR DATA RECEPTACLES
- TELEPHONE TERMINAL CABINET
- CABLE TELEVISION TERMINAL BOARD (TVTB) – 3/4" THICK, GRADE CC PLYWOOD, HEIGHT AND WIDTH AS INDICATED.
- CABLE TELEVISION TERMINAL CABINET (TVTC)
- TELEVISION OUTLET
- CLOCK OUTLET DF = DOUBLE FACE

SECURITY EQUIPMENT

- CARD READER
- CAMERA CM = NEW CAMERA ECM = EXISTING CAMERA
- MONITOR
- SECURITY SYSTEM KEY PAD
- SECURITY SYSTEM INFRARED MOTION SENSOR
- SECURITY SYSTEM HAND BUTTON ACTIVATION SWITCH
- SECURITY SYSTEM SAFE PROTECTION CONNECTION
- SECURITY SYSTEM MONEY CLIP ACTIVATION SWITCH
- PHOTOELECTRIC PROXIMITY SENSOR
- MAGNETIC DOOR CONTACT SWITCH
- REQUEST TO EXIT
- ELECTRIC STRIKE
- BREAK GLASS SENSOR
- MONITOR SENSOR

ELECTRICAL SHEET INDEX

E000	ELECTRICAL SITE PLAN, SYMBOLS AND SHEET INDEX
ED00	ELECTRICAL REMOVAL PLAN - BASEMENT
ED01	ELECTRICAL FIRST FLOOR REMOVAL PLAN - LIGHTING
ED02	ELECTRICAL SECOND FLOOR REMOVAL PLAN - LIGHTING
ED03	ELECTRICAL FIRST FLR. REMOVAL PLAN - P./L.V.
ED04	ELECTRICAL SECOND FLR. REMOVAL PLAN - P./L.V.
E101	ELECTRICAL LIGHTING PLAN - FIRST FLOOR
E102	ELECTRICAL LIGHTING PLAN - SECOND FLOOR
E200	ELECTRICAL POWER PLAN - BASEMENT
E201	ELECTRICAL POWER PLAN - FIRST FLOOR
E202	ELECTRICAL POWER PLAN - SECOND FLOOR
E300	ELECTRICAL LOW VOLTAGE PLAN - BASEMENT
E301	ELECTRICAL LOW VOLTAGE PLAN - FIRST FLOOR
E302	ELECTRICAL LOW VOLTAGE PLAN - SECOND FLOOR
E400	ENLARGED PLANS
E401	ELECTRICAL RISERS
E402	ELECTRICAL DETAILS
E500	ELECTRICAL SCHEDULES
E501	ELECTRICAL SCHEDULES
E600	ELECTRICAL LIGHTING CONTROLS
E601	ELECTRICAL LIGHTING CONTROLS
E602	ELECTRICAL LIGHTING CONTROLS
E603	ELECTRICAL LIGHTING CONTROLS
FA00	ELECTRICAL FIRE ALARM PLAN - BASEMENT
FA01	ELECTRICAL FIRE ALARM PLAN - FIRST FLOOR
FA02	ELECTRICAL FIRE ALARM PLAN - SECOND FLOOR

ARCHITECTURE
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INTERIOR DESIGN

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

Consultant:

galileo CONSULTING GROUP
2929 EAST AVE. SOUTH, SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9504, FAX: (608) 787-4995
E-MAIL: PPopowski@galileo-group.net

Project Title: WESTERN TECHNICAL COLLEGE
INNOVATION CENTER

Project Location: 405 8TH STREET NORTH
LA CROSSE, WI

Sheet Title: ELECTRICAL SITE PLAN, SYMBOLS AND SHEET INDEX

HSR Project Number: 24003

Project Date: AUGUST 2024

Drawn By: PCP

Key Plan:

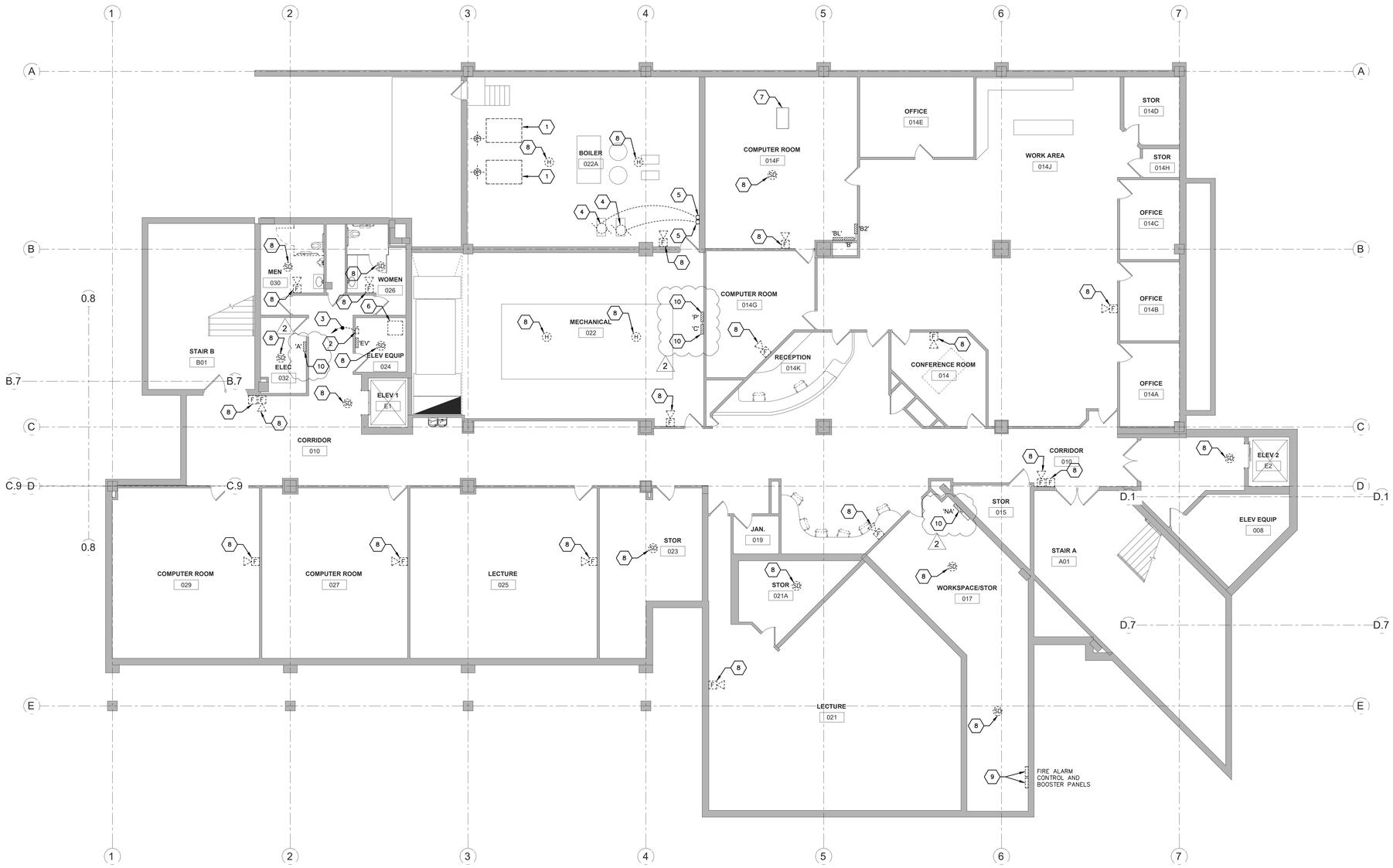
Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: VARIES

Last Update: 8/16/2024 8:19:30 AM

E000



NORTH

1 ELECTRICAL BASEMENT REMOVAL PLAN

1/8" = 1'-0"

KEYED ELECTRICAL DEMOLITION BASEMENT PLAN NOTES - ED00:

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID TO REMOVE ALL FIRE ALARM DEVICES AND ASSOCIATED WIRING IN BASEMENT. PLEASE NOTE A NEW FIRE ALARM SYSTEM WILL BE INSTALLED IN THE BUSINESS ED (BE) BUILDING. IT SHALL BE ALLOWED TO REUSE EXISTING EMPTY CONDUIT AND JUNCTION BOXES FOR NEW FIRE ALARM SYSTEM INSTALLATION. RECOMMEND FIELD VERIFICATION TO DETERMINE SCOPE OF WORK.

KEYED NOTES:

1. DISCONNECT EXISTING BOILER AND ASSOCIATED CIRCULATING PUMP FOR REMOVAL BY OTHERS. REMOVE EXISTING WIRING BACK TO SOURCE, DO NOT REUSE. PLEASE NOTE A NEW BOILER REPLACEMENT WILL BE INSTALLED IN SAME LOCATION. IT SHALL BE ALLOWED TO REUSE EXISTING EMPTY CONDUIT, JUNCTION BOXES, ETC. FOR THE CONNECTION TO NEW BOILER.
2. DISCONNECT, REMOVE AND DISPOSE OF EXISTING ELEVATOR DISCONNECT SWITCH. PLEASE NOTE A NEW ELEVATOR WILL BE INSTALLED AS PART OF THIS PROJECT.
3. DISCONNECT, REMOVE AND DISPOSE OF EXISTING ELEVATOR FEEDER. IT SHALL BE ALLOWED TO REUSE EXISTING EMPTY FEEDER CONDUIT FOR NEW FEEDER TO NEW ELEVATOR.
4. DISCONNECT EXISTING HOT WATER CIRCULATING PUMP FOR REMOVAL BY OTHERS. REMOVE EXISTING WIRING BACK TO SOURCE, DO NOT REUSE. PLEASE NOTE A NEW CIRCULATING PUMP WILL BE INSTALLED IN SAME LOCATION. IT SHALL BE ALLOWED TO REUSE EXISTING EMPTY CONDUIT, JUNCTION BOXES, ETC. FOR THE CONNECTION TO NEW CIRCULATING PUMP.
5. DISCONNECT, REMOVE AND DISPOSE OF EXISTING CIRCULATING PUMP COMBINATION MOTOR STARTER, PLEASE NOTE A NEW VFD WILL BE INSTALLED IN THIS APPROXIMATE LOCATION TO FEED NEW CIRCULATING PUMP. REMOVE EXISTING BRANCH-CIRCUIT WIRING BACK TO SOURCE, DO NOT REUSE. IT SHALL BE ALLOWED TO REUSE EXISTING CONDUIT, JUNCTION BOXES, ETC.
6. DISCONNECT EXISTING ELEVATOR CONTROLLER AND ALL ASSOCIATED LINE VOLTAGE AND LOW VOLTAGE AS REQUIRED FOR REMOVAL BY OTHERS.
7. APPROXIMATE LOCATION OF EXISTING IT EQUIPMENT RACK #3. DISCONNECT, REMOVE AND DISPOSE OF ALL LOW VOLTAGE WIRING CONNECTED TO EXISTING DATA JACKS, ETC. AFFECTED BY REMODEL PROJECT. COORDINATE CLOSELY WITH WTC IT DEPARTMENT. RECOMMEND FIELD VERIFICATION TO DETERMINE SCOPE OF WORK PRIOR TO SUBMITTING BID.
8. DISCONNECT, REMOVE AND DISPOSE OF EXISTING FIRE ALARM DEVICE. REMOVE WIRING BACK TO SOURCE. IT SHALL BE ALLOWED TO REUSE EXISTING CONDUIT, JUNCTION BOXES, ETC.
9. REUSE EXISTING 'NOTIFIER' FIRE ALARM NAC POWER SUPPLY PANEL.
10. DISCONNECT, REMOVE AND DISPOSE OF EXISTING 'WESTINGHOUSE' PANELBOARD AND ASSOCIATED FEEDER. THIS PANELBOARD WILL BE REPLACED WITH NEW. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.

2

ARCHITECTURE
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INTERIOR DESIGN

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

Consultant:

galileo
CONSULTING GROUP
2920 EAST AVENUE SOUTH, SUITE 103
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9104 FAX: (608) 787-8995
E-MAIL: PPopowich@galileo-group.net

Project Title: **WESTERN TECHNICAL COLLEGE**
INNOVATION CENTER

Project Location: **405 8TH STREET NORTH**
LA CROSSE, WI

Sheet Title: **ELECTRICAL BASEMENT REMOVAL PLAN**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **PLP**

Key Plan:

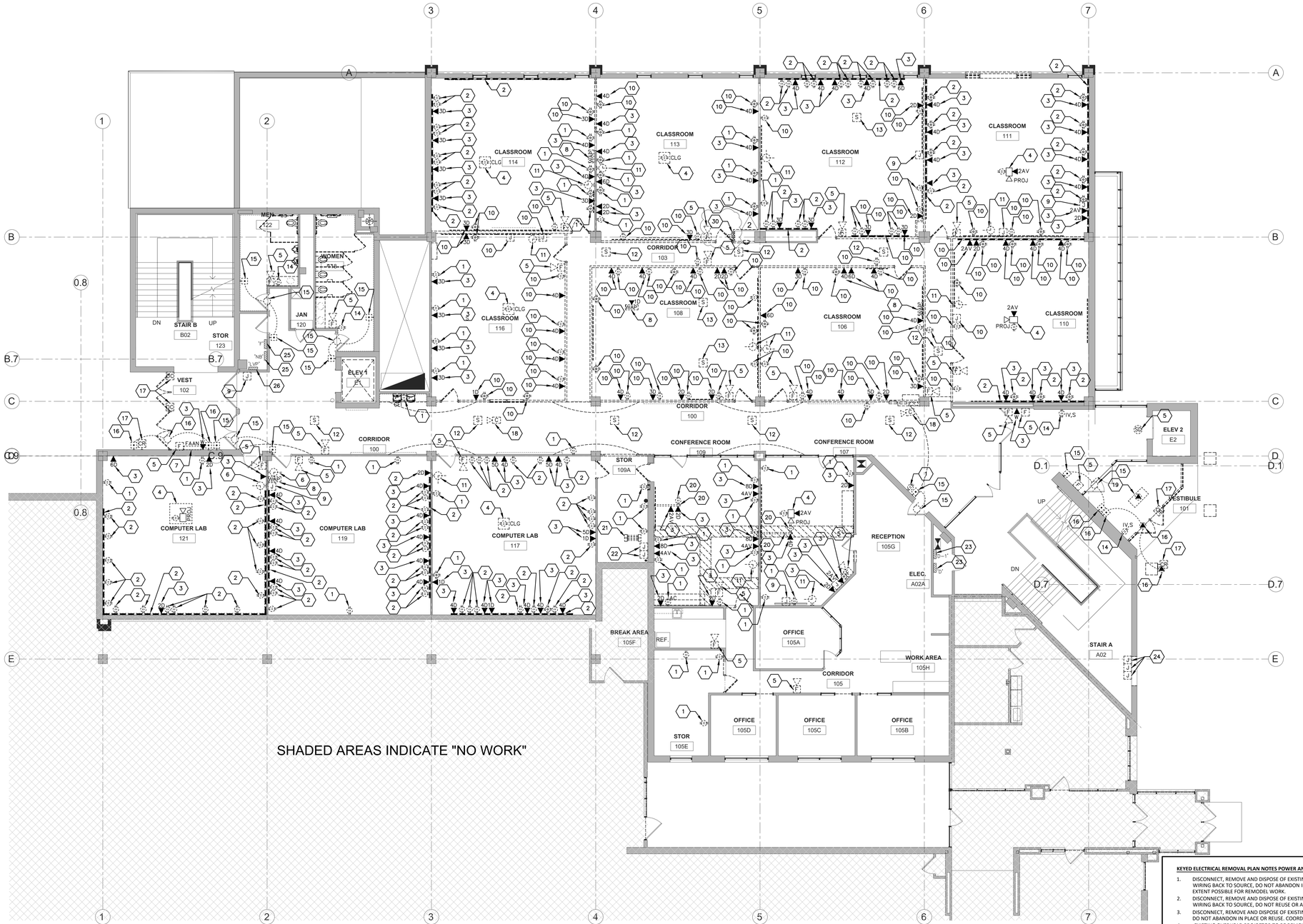
Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: **VARIES**

Last Update: **7/29/2024**

ED00



NORTH

1 ELECTRICAL FIRST FLOOR REMOVAL PLAN - POWER/LOW VOLTAGE

1/8" = 1'-0"

KEYED ELECTRICAL REMOVAL PLAN NOTES POWER AND LOW VOLTAGE - ED03 AND ED04:

1. DISCONNECT, REMOVE AND DISPOSE OF EXISTING DUPLEX RECEPTACLE(S). REMOVE EXISTING BRANCH-CIRCUIT WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE. REUSE EXISTING CONDUIT AND JUNCTION BOXES TO THE EXTENT POSSIBLE FOR REMODEL WORK.
2. DISCONNECT, REMOVE AND DISPOSE OF EXISTING SURFACE 'WIREMOLD' RACEWAY AND RECEPTACLES. REMOVE WIRING BACK TO SOURCE, DO NOT REUSE OR ABANDON IN PLACE.
3. DISCONNECT, REMOVE AND DISPOSE OF EXISTING DATA JACK(S). REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE. COORDINATE THOROUGHLY WITH WTC IT DEPARTMENT.
4. EXISTING OVERHEAD PROJECTOR TO BE REMOVED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF CEILING MOUNTED RECEPTACLE(S) AND LOW VOLTAGE JACKS. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
5. DISCONNECT, REMOVE AND DISPOSE OF EXISTING FIRE ALARM SYSTEM DEVICE. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE. PLEASE NOTE A NEW FIRE ALARM SYSTEM WILL BE INSTALLED IN THIS BUILDING.
6. EXISTING CLOCK SHALL REMAIN AS IS, HOWEVER IT WILL BE REQUIRED TO RECONNECT TO NEW BRANCH-CIRCUIT WIRING IN THIS ROOM.
7. DISCONNECT, REMOVE AND DISPOSE OF EXISTING FIRE ALARM SYSTEM ANNUNCIATOR PANEL. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE. PLEASE NOTE A NEW FIRE ALARM SYSTEM ANNUNCIATOR PANEL WILL BE INSTALLED IN THIS SAME LOCATION.
8. DISCONNECT, REMOVE AND SALVAGE EXISTING WIRELESS ACCESS POINT TO WTC IT DEPARTMENT. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
9. DISCONNECT, REMOVE AND DISPOSE OF EXISTING DUPLEX RECEPTACLE(S). PROVIDE A STAINLESS STEEL BLANK COVER PLATE. REMOVE BRANCH-CIRCUIT WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
10. THIS WALL TO BE DEMOLISHED, DISCONNECT AND REMOVE ALL WIRING DEVICES AND ASSOCIATED CONDIT, JUNCTION BOXSES, ETC. REMOVE WIRING BACK TO SROUCE. TYPICAL.
11. DISCONNECT, REMOVE AND SALVAGE EXISTING 'LATHEM' CLOCK TO WTC PLANT FACILITY DEPARTMENT FOR REINSTALLATION IN REMODEL PROJECT.
12. DISCONNECT, REMOVE AND DISPOSE OF EXISTING PUBLIC ADDRESS SYSTEM SPEAKER. REMOVE EXISTING WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
13. DISCONNECT, REMOVE AND SALVAGE EXISTING SPEAKER TO WTC IT DEPARTMENT. REMOVE EXISTING WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
14. EXISTING WIRING DEVICE TO REMAIN AS IS.
15. EXISTING POWER ASSIST DOOR OPENER TO REMAIN AS IS.
16. DISCONNECT EXISTING DOOR ASSIST OPENER FOR REMOVAL BY OTHERS.
17. DISCONNECT, REMOVE AND SALVAGE EXISTING ELECTRONIC DOOR ACCESS CONTROL DEVICE TO WTC FACILITY PLANT DEPARTMENT. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
18. DISCONNECT, REMOVE AND SALVAGE EXISTING CAMERA TO WTC IT DEPARTMENT. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
19. DISCONNECT MOTOR/EQUIPMENT FOR REMOVAL BY OTHERS. REMOVE WIRING BACK TO SOURCE.
20. DISCONNECT, REMOVE AND DISPOSE OF EXISTING UNDERCARPET 'CONNECT-TRAC'.
21. DISCONNECT, REMOVE AND SALVAGE EXISTING IT EQUIPMENT RACK TO WTC IT DEPARTMENT. REMOVE ALL ASSOCIATED LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
22. EXISTING FIRE ALARM SURFACE EMT CONDUIT, JUNCTION BOXES, ETC. TO REMAIN AS IS.
23. EXISTING SQUARE 'D' PANELBOARDS TO REMAIN AS IS.
24. DISCONNECT, REMOVE EXISTING JUNCTION BOXES IN BRICK WALL, PLEASE NOTE A NEW WINDOW WILL BE INSTALLED IN SAME LOCATION AS JUNCTION BOXES AND CONDUIT.
25. EXISTING 'WESTINGHOUSE' PANELBOARDS SHALL BE DISCONNECTED, REMOVE AND DISPOSED. A NEW SQUARE 'D' (ONLY) PANELBOARD SHALL BE INSTALLED IN SAME LOCATION. REFER TO ELECTRIC RISER DIAGRAM 1/E401.
26. EXISTING 'AUTOMATED LOGIC' CONTROL PANEL TO REMAIN AS IS.
27. DISCONNECT LOW VOLTAGE FAUCET, URINAL, SINK OR WATER CLOSET AUTOMATED FLUSH VALVE FOR REMOVAL BY OTHERS.
28. EXISTING LOW VOLTAGE WIRING PREVIOUSLY ABANDONED OR DELETED IN THIS PROJECT SHALL BE REMOVED AND DISPOSED OF BY THE ELECTRICAL CONTRACTOR. VERIFY WITH WTC IT DEPARTMENT PRIOR TO REMOVAL, A FEW ANALOG CABLES NEED TO REMAIN.
29. DISCONNECT, REMOVE AND DISCARD EXISTING HEAT TAPE.
30. DISCONNECT, REMOVE AND DISCARD EXISTING 'WESTINGHOUSE' PANELBOARD AND ALL ASSOCIATED BRANCH-CIRCUITS.

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:

galileo CONSULTING GROUP

Project Title: **WESTERN TECHNICAL COLLEGE INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **ELECTRICAL FIRST FLR. REMOVAL PLAN - P./L.V.**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **PLP**

Key Plan:

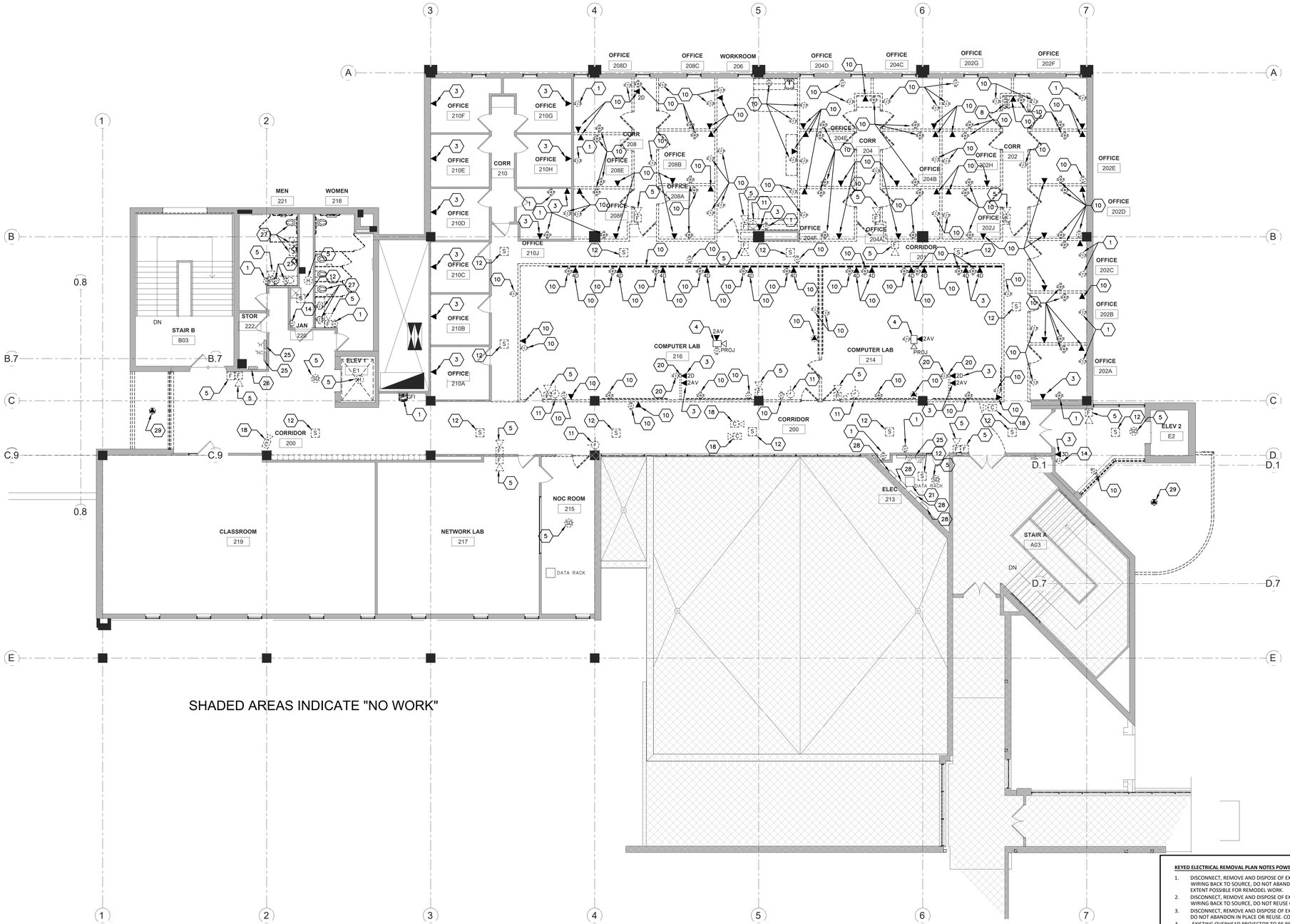
Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: **VARIES**

Last Update: **7/29/2024**

ED03



NORTH

1 ELECTRICAL REMOVAL SECOND FLOOR PLAN - POWER/LOW VOLTAGE

1/8" = 1'-0"

KEYED ELECTRICAL REMOVAL PLAN NOTES POWER AND LOW VOLTAGE - ED03 AND ED04:

1. DISCONNECT, REMOVE AND DISPOSE OF EXISTING DUPLEX RECEPTACLE(S). REMOVE EXISTING BRANCH-CIRCUIT WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE. REUSE EXISTING CONDUIT AND JUNCTION BOXES TO THE EXTENT POSSIBLE FOR REMODEL WORK.
2. DISCONNECT, REMOVE AND DISPOSE OF EXISTING SURFACE 'WIREMOLD' RACEWAY AND RECEPTACLES. REMOVE WIRING BACK TO SOURCE, DO NOT REUSE OR ABANDON IN PLACE.
3. DISCONNECT, REMOVE AND DISPOSE OF EXISTING DATA JACK(S). REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE. COORDINATE THOROUGHLY WITH WTC IT DEPARTMENT.
4. EXISTING OVERHEAD PROJECTOR TO BE REMOVED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL DISCONNECT, REMOVE AND DISPOSE OF CEILING MOUNTED RECEPTACLE(S) AND LOW VOLTAGE JACKS. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
5. DISCONNECT, REMOVE AND DISPOSE OF EXISTING FIRE ALARM SYSTEM DEVICE. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE. PLEASE NOTE A NEW FIRE ALARM SYSTEM WILL BE INSTALLED IN THIS BUILDING.
6. EXISTING CLOCK SHALL REMAIN AS IS, HOWEVER IT WILL BE REQUIRED TO RECONNECT TO NEW BRANCH-CIRCUIT WIRING IN THIS ROOM.
7. DISCONNECT, REMOVE AND DISPOSE OF EXISTING FIRE ALARM SYSTEM ANNUNCIATOR PANEL. REMOVE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE. PLEASE NOTE A NEW FIRE ALARM SYSTEM ANNUNCIATOR PANEL WILL BE INSTALLED IN THIS SAME LOCATION.
8. DISCONNECT, REMOVE AND SALVAGE EXISTING WIRELESS ACCESS POINT TO WTC IT DEPARTMENT. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
9. DISCONNECT, REMOVE AND DISPOSE OF EXISTING DUPLEX RECEPTACLE(S). PROVIDE A STAINLESS STEEL BLANK COVER PLATE. REMOVE BRANCH-CIRCUIT WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
10. THIS WALL TO BE DEMOLISHED, DISCONNECT AND REMOVE ALL WIRING DEVICES AND ASSOCIATED CONDIT, JUNCTION BOXSES, ETC. REMOVE WIRING BACK TO SROUCE. TYPICAL.
11. DISCONNECT, REMOVE AND SALVAGE EXISTING 'LATHEM' CLOCK TO WTC PLANT FACILITY DEPARTMENT FOR REINSTALLATION IN REMODEL PROJECT.
12. DISCONNECT, REMOVE AND DISPOSE OF EXISTING PUBLIC ADDRESS SYSTEM SPEAKER. REMOVE EXISTING WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
13. DISCONNECT, REMOVE AND SALVAGE EXISTING SPEAKER TO WTC IT DEPARTMENT. REMOVE EXISTING WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE.
14. EXISTING WIRING DEVICE TO REMAIN AS IS.
15. EXISTING POWER ASSIST DOOR OPENER TO REMAIN AS IS.
16. DISCONNECT EXISTING DOOR ASSIST OPENER FOR REMOVAL BY OTHERS.
17. DISCONNECT, REMOVE AND SALVAGE EXISTING ELECTRONIC DOOR ACCESS CONTROL DEVICE TO WTC FACILITY PLANT DEPARTMENT. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
18. DISCONNECT, REMOVE AND SALVAGE EXISTING CAMERA TO WTC IT DEPARTMENT. REMOVE LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
19. DISCONNECT MOTOR/EQUIPMENT FOR REMOVAL BY OTHERS. REMOVE WIRING BACK TO SOURCE.
20. DISCONNECT, REMOVE AND DISPOSE OF EXISTING UNDERCARPET 'CONNECT-TRAC'.
21. DISCONNECT, REMOVE AND SALVAGE EXISTING IT EQUIPMENT RACK TO WTC IT DEPARTMENT. REMOVE ALL ASSOCIATED LOW VOLTAGE WIRING BACK TO SOURCE, DO NOT ABANDON IN PLACE OR REUSE.
22. EXISTING FIRE ALARM SURFACE EMT CONDUIT, JUNCTION BOXES, ETC. TO REMAIN AS IS.
23. EXISTING SQUARE 'D' PANELBOARDS TO REMAIN AS IS.
24. DISCONNECT, REMOVE EXISTING JUNCTION BOXES IN BRICK WALL, PLEASE NOTE A NEW WINDOW WILL BE INSTALLED IN SAME LOCATION AS JUNCTION BOXES AND CONDUIT.
25. EXISTING 'WESTINGHOUSE' PANELBOARDS SHALL BE DISCONNECTED, REMOVE AND DISPOSED. A NEW SQUARE 'D' (ONLY) PANELBOARD SHALL BE INSTALLED IN SAME LOCATION. REFER TO ELECTRIC RISER DIAGRAM 1/E401.
26. EXISTING 'AUTOMATED LOGIC' CONTROL PANEL TO REMAIN AS IS.
27. DISCONNECT LOW VOLTAGE FAUCET, URINAL, SINK OR WATER CLOSET AUTOMATED FLUSH VALVE FOR REMOVAL BY OTHERS.
28. EXISTING LOW VOLTAGE WIRING PREVIOUSLY ABANDONED OR DELETED IN THIS PROJECT SHALL BE REMOVED AND DISPOSED OF BY THE ELECTRICAL CONTRACTOR. VERIFY WITH WTC IT DEPARTMENT PRIOR TO REMOVAL, A FEW ANALOG CABLES NEED TO REMAIN.
29. DISCONNECT, REMOVE AND DISCARD EXISTING HEAT TAPE.
30. DISCONNECT, REMOVE AND DISCARD EXISTING 'WESTINGHOUSE' PANELBOARD AND ALL ASSOCIATED BRANCH-CIRCUITS.

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:

galileo CONSULTING GROUP
2929 EAST AVENUE SOUTH, SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9104 FAX: (608) 787-8993
E-MAIL: PPopowich@galileo-group.net

Project Title: **WESTERN TECHNICAL COLLEGE INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **ELECTRICAL REMOVAL SECOND FLR. PLAN - P./L.V.**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **PLP**

Key Plan:

Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: **VARIES**

Last Update: **7/29/2024**

ED04

NORTH

1 ELECTRICAL LIGHTING PLAN - FIRST FLOOR

1/8" = 1'-0"

GENERAL NOTES FOR LIGHTING:

A. FINAL OCCUPANCY SENSOR LOCATION SHALL BE BY OCCUPANCY SENSOR MANUFACTURER.
B. LIGHTING CONTROL SYSTEM BASED UPON **ACUITY** CONTROLS, n-LIGHT MANUFACTURER. WATTSTOPPER **ONLY** SHALL BE AN APPROVED EQUAL FOR THIS PROJECT. REFER TO SHEETS E600 – E603 FOR LIGHTING CONTROL DETAILS. ONLY TWO LIGHTING CONTROL MANUFACTURERS ARE APPROVED FOR THIS PROJECT.
C. COORDINATE LIGHTING FIXTURE LOCATIONS WITH MECHANICAL PIPING AND DUCTWORK PRIOR TO INSTALLATION.
D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL DESIGNER FOR LIGHTING FIXTURE BRANCH-CIRCUITS. THE INTENT IS TO REUSE EXISTING LIFE-SAFETY BRANCH-CIRCUITS AND TO REUSE EXISTING EMERGENCY BRANCH-CIRCUITS (NON-LIFE SAFETY).
E. PROVIDE A LIGHTING FIXTURE ALLOWANCE OF $60,000 (DOLLARS) IN THE BID.
F. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SEPARATE' BREAK-OUT COST FOR LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE. DO NOT COMBINE LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE INTO ONE BID. IT SHALL BE ALLOWED TO PROVIDE 'WATTSTOPPER' LIGHTING CONTROLS AS AN ALTERNATE TO 'NLIGHT' WHICH WAS USED AS A BASIS FOR DESIGN ON THIS PROJECT.

KEYED LIGHTING PLAN NOTES: 2

1. CONNECT TO EXISTING 'AUTOMATED LOGIC' CONTROL PANEL. FEED WITH 'LIFE-SAFETY' EXISTING BRANCH-CIRCUIT FOR EGRESS LIGHTING.
2. CONNECT TO EXISTING 'AUTOMATED LOGIC' CONTROL PANEL. FEED WITH EXISTING NON-LIFE SAFETY EMERGENCY BRANCH-CIRCUIT.
3. CONNECT NEW EXIT LIGHTING FIXTURE TO AN EXISTING LIFE-SAFETY BRANCH-CIRCUIT AVAILABLE IN THE AREA.
4. PROVIDE A DUAL TECHNOLOGY CEILING-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR AS RECOMMENDED BY ACUITY CONTROLS, n-LIGHT MANUFACTURER FOR AUTOMATIC CONTROL OF LIGHTING FIXTURES IN THIS ROOM.
5. LOCATION OF EXISTING 'AUTOMATED LOGIC' CONTROL PANEL. USE THIS PANEL TO CONTROL EXTERIOR AND CORRIDOR LIGHTING FIXTURES ONLY.
6. PROVIDE A WALL-MOUNTED COMBINATION OCCUPANCY/DIMMER. THIS SWITCH SHALL SERVE AS AN OCCUPANCY SENSOR AND 0-10V DIMMER FOR LED LIGHTING FIXTURES.
7. PROVIDE INFRARED SINGLE RELAY WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR AS RECOMMENDED BY ACUITY n-LIGHT MANUFACTURER.
8. PROVIDE AN ACUITY CONTROLS, n-LIGHT ROOM CONTROLER 1-ZONE POWER PACK AS RECOMMENDED BY MANUFACTURER. REFER TO LIGHTING CONTROL DRAWINGS E601 – E606, TYPICAL.
9. PROVIDE AN ACUITY CONTROLS, n-LIGHT TWO BUTTON LOW VOLTAGE DIGITAL DIMMING SWITCH COMPATIBLE WITH n-LIGHT ROOM CONTROLLER ZONE POWER PACK. PROVIDE A LOW VOLTAGE CAT6 CABLE AS RECOMMENDED BY n-LIGHT MANUFACTURER.
10. PROVIDE AN ACUITY CONTROLS, n-LIGHT DUAL TECHNOLOGY CEILING-MOUNTED OCCUPANCY SENSOR COMPATIBLE WITH CONTROL ZONE POWER PACK.
11. PROVIDE AN ACUITY CONTROLS, n-LIGHT DAY-LIGHT SENSOR COMPATIBLE WITH CONTROL ZONE POWER PACK.
12. PROVIDE AN ACUITY CONTROLS, n-LIGHT SINGLE BUTTON LOW VOLTAGE DIGITAL ON/OFF SWITCH COMPATIBLE WITH n-LIGHT ROOM CONTROLLER ZONE POWER PACK. PROVIDE A LOW VOLTAGE CAT6 CABLE AS RECOMMENDED BY n-LIGHT MANUFACTURER.
13. MAKE FINAL CONNECTION TO BACKLIT EXTERIOR SIGN. PROVIDE AN DISCONNECT AS REQUIRED BY NEC.
14. PROVIDE A 20 AMP, 120VAC, BRANCH-CIRCUIT FROM NEW REPLACEMENT PANELBOARDS 'F' OR 'NC' LOCATED IN ELECTRICAL ROOM 123. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO FEED FROM.
15. PROVIDE A 20 AMP, 120VAC, BRANCH-CIRCUIT FROM EXISTING PANELBOARDS 'D' OR 'D1' LOCATED IN ELECTRICAL A02A. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO FEED FROM.
16. PROVIDE A 20 AMP, 120VAC, BRANCH-CIRCUIT FROM EXISTING REPLACEMENT PANELBOARDS 'H' OR 'NC' LOCATED IN ELECTRICAL 222. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO FEED FROM.
17. PROVIDE A 20 AMP, 120VAC, BRANCH-CIRCUIT FROM EXISTING REPLACEMENT PANELBOARDS 'J' LOCATED IN DATA/ELECTRICAL 213. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO FEED FROM.
18. PROVIDE A FLOOR BOX WITH DUPLEX RECEPTACLE.
19. ELECTRICAL CONTRACTOR SHALL LOWER EXISTING EXTERIOR WALL SCONCE LIGHTING FIXTURE TO 9'-0".

ARCHITECTURE
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INTERIOR DESIGN

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

Consultant:

galileo CONSULTING GROUP
2929 EAST AVENUE SOUTH, SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9566 FAX: (608) 787-4995
E-MAIL: PPopowski@galileo-group.net

Project Title: **WESTERN TECHNICAL COLLEGE INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **ELECTRICAL LIGHTING PLAN - FIRST FLOOR**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **PCP**

Key Plan:

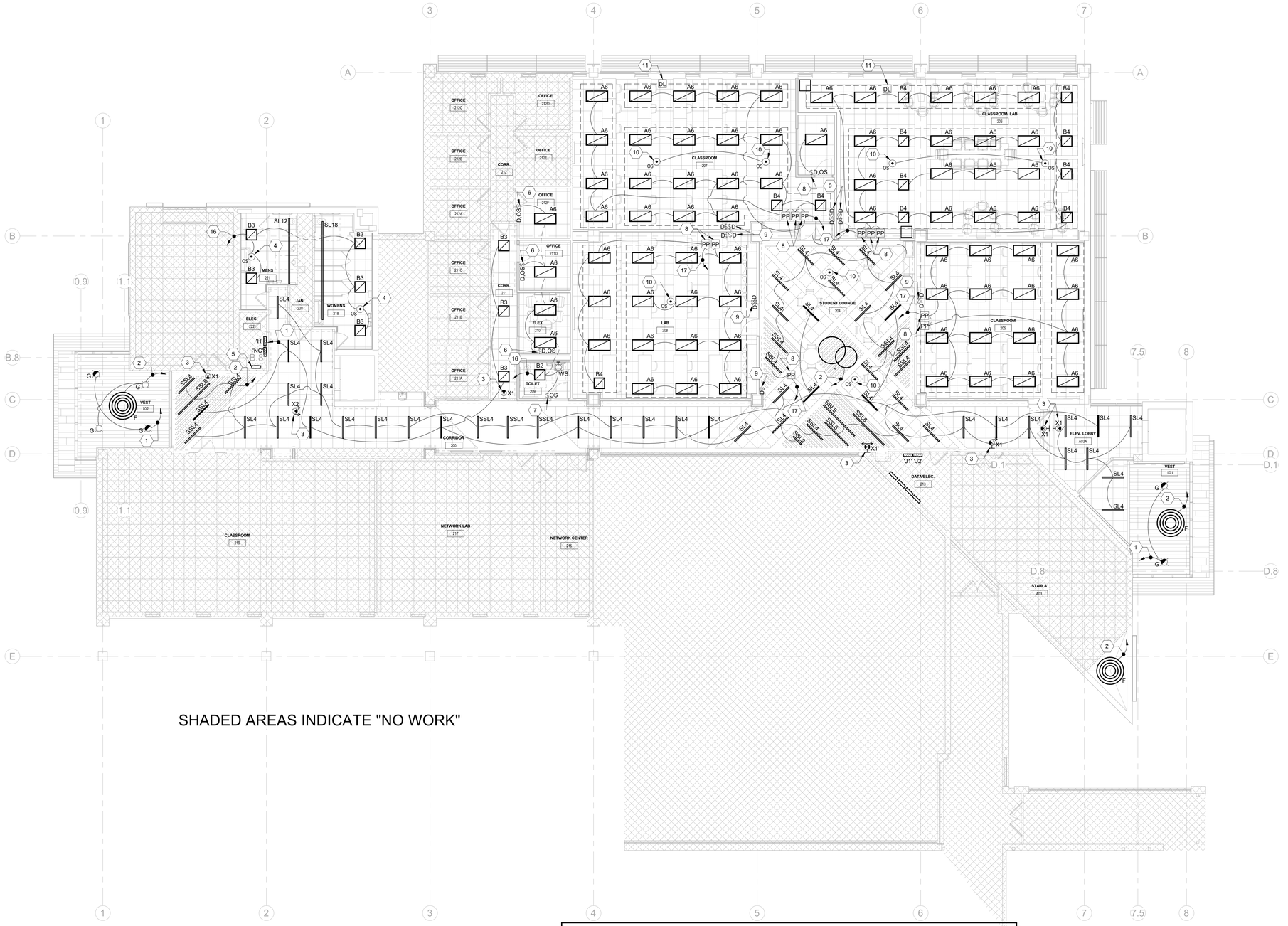
Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: **VARIES**

Last Update: **8/16/2024 8:19:33 AM**

E101



NORTH

1 ELECTRICAL LIGHTING PLAN - SECOND FLOOR

1/8" = 1'-0"

GENERAL NOTES FOR LIGHTING:

A. FINAL OCCUPANCY SENSOR LOCATION SHALL BE BY OCCUPANCY SENSOR MANUFACTURER.
B. LIGHTING CONTROL SYSTEM BASED UPON **ACUITY** CONTROLS, n-LIGHT MANUFACTURER. WATTSTOPPER **ONLY** SHALL BE AN APPROVED EQUAL FOR THIS PROJECT. REFER TO SHEETS E600 – E603 FOR LIGHTING CONTROL DETAILS. ONLY TWO LIGHTING CONTROL MANUFACTURERS ARE APPROVED FOR THIS PROJECT.
C. COORDINATE LIGHTING FIXTURE LOCATIONS WITH MECHANICAL PIPING AND DUCTWORK PRIOR TO INSTALLATION.
D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL DESIGNER FOR LIGHTING FIXTURE BRANCH-CIRCUITS. THE INTENT IS TO REUSE EXISTING LIFE-SAFETY BRANCH-CIRCUITS AND TO REUSE EXISTING EMERGENCY BRANCH-CIRCUITS (NON-LIFE SAFETY).
E. PROVIDE A LIGHTING FIXTURE ALLOWANCE OF $60,000 (DOLLARS) IN THE BID.
F. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SEPARATE' BREAK-OUT' COST FOR LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE. DO NOT COMBINE LIGHTING CONTROLS AND LIGHTING FIXTURE PACKAGE INTO ONE BID. IT SHALL BE ALLOWED TO PROVIDE 'WATTSTOPPER' LIGHTING CONTROLS AS AN ALTERNATE TO 'N-LIGHT' WHICH WAS USED AS A BASIS FOR DESIGN ON THIS PROJECT.

KEYED LIGHTING PLAN NOTES: 2

1. CONNECT TO EXISTING 'AUTOMATED LOGIC' CONTROL PANEL. FEED WITH 'LIFE-SAFETY' EXISTING BRANCH-CIRCUIT FOR EGRESS LIGHTING.
2. CONNECT TO EXISTING 'AUTOMATED LOGIC' CONTROL PANEL. FEED WITH EXISTING NON-LIFE SAFETY EMERGENCY BRANCH-CIRCUIT.
3. CONNECT NEW EXIT LIGHTING FIXTURE TO AN EXISTING LIFE-SAFETY BRANCH-CIRCUIT AVAILABLE IN THE AREA.
4. PROVIDE A DUAL TECHNOLOGY CEILING-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR AS RECOMMENDED BY ACUITY CONTROLS, n-LIGHT MANUFACTURER FOR AUTOMATIC CONTROL OF LIGHTING FIXTURES IN THIS ROOM.
5. LOCATION OF EXISTING 'AUTOMATED LOGIC' CONTROL PANEL. USE THIS PANEL TO CONTROL EXTERIOR AND CORRIDOR LIGHTING FIXTURES ONLY.
6. PROVIDE A WALL-MOUNTED COMBINATION OCCUPANCY/DIMMER. THIS SWITCH SHALL SERVE AS AN OCCUPANCY SENSOR AND 0-10V DIMMER FOR LED LIGHTING FIXTURES.
7. PROVIDE INFRARED SINGLE RELAY WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR AS RECOMMENDED BY ACUITY n-LIGHT MANUFACTURER.
8. PROVIDE AN ACUITY CONTROLS, n-LIGHT ROOM CONTROLER 1-ZONE POWER PACK AS RECOMMENDED BY MANUFACTURER. REFER TO LIGHTING CONTROL DRAWINGS E601 – E606. TYPICAL.
9. PROVIDE AN ACUITY CONTROLS, n-LIGHT TWO BUTTON LOW VOLTAGE DIGITAL DIMMING SWITCH COMPATIBLE WITH n-LIGHT ROOM CONTROLLER ZONE POWER PACK. PROVIDE A LOW VOLTAGE CAT6 CABLE AS RECOMMENDED BY n-LIGHT MANUFACTURER.
10. PROVIDE AN ACUITY CONTROLS, n-LIGHT DUAL TECHNOLOGY CEILING-MOUNTED OCCUPANCY SENSOR COMPATIBLE WITH CONTROL ZONE POWER PACK.
11. PROVIDE AN ACUITY CONTROLS, n-LIGHT DAY-LIGHT SENSOR COMPATIBLE WITH CONTROL ZONE POWER PACK.
12. PROVIDE AN ACUITY CONTROLS, n-LIGHT SINGLE BUTTON LOW VOLTAGE DIGITAL ON/OFF SWITCH COMPATIBLE WITH n-LIGHT ROOM CONTROLLER ZONE POWER PACK. PROVIDE A LOW VOLTAGE CAT6 CABLE AS RECOMMENDED BY n-LIGHT MANUFACTURER.
13. MAKE FINAL CONNECTION TO BACKLIT EXTERIOR SIGN. PROVIDE AN DISCONNECT AS REQUIRED BY NEC.
14. PROVIDE A 20 AMP, 120VAC, BRANCH-CIRCUIT FROM NEW REPLACEMENT PANELBOARDS 'F' OR 'NC' LOCATED IN ELECTRICAL ROOM 123. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO FEED FROM.
15. PROVIDE A 20 AMP, 120VAC, BRANCH-CIRCUIT FROM EXISTING PANELBOARDS 'D' OR 'D1' LOCATED IN ELECTRICAL A02A. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO FEED FROM.
16. PROVIDE A 20 AMP, 120VAC, BRANCH-CIRCUIT FROM EXISTING REPLACEMENT PANELBOARDS 'H' OR 'NC' LOCATED IN ELECTRICAL 222. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO FEED FROM.
17. PROVIDE A 20 AMP, 120VAC, BRANCH-CIRCUIT FROM EXISTING REPLACEMENT PANELBOARDS 'J' LOCATED IN DATA/ELECTRICAL 213. ELECTRICAL CONTRACTOR SHALL CHOOSE BEST PANELBOARD TO FEED FROM.
18. PROVIDE A FLOOR BOX WITH DUPLEX RECEPTACLE.
19. ELECTRICAL CONTRACTOR SHALL LOWER EXISTING EXTERIOR WALL SCONCE LIGHTING FIXTURE TO 9'-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:

galileo CONSULTING GROUP
2929 EAST AVE SOUTH, SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9504 FAX: (608) 787-4995
E-MAIL: PPopowski@galileo-group.net

Project Title: **WESTERN TECHNICAL COLLEGE INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **ELECTRICAL LIGHTING PLAN - SECOND FLOOR**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **PCP**

Key Plan:

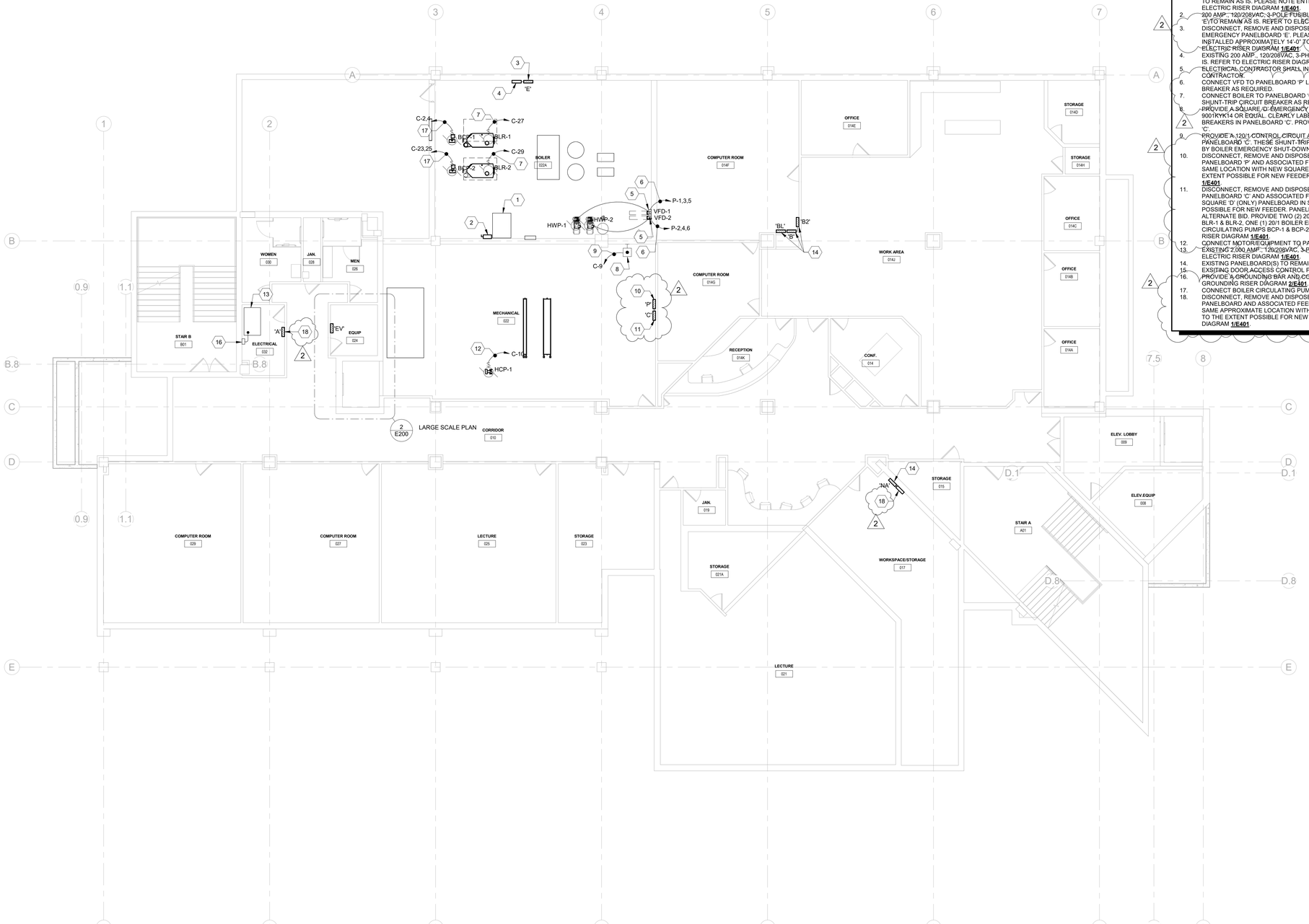
Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: **VARIES**

Last Update: **8/16/2024 8:19:35 AM**

E102



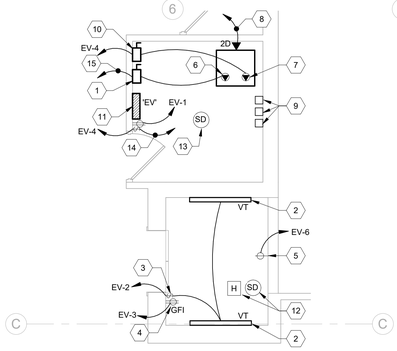
KEYED POWER PLAN NOTES-E200:

1. EXISTING 2,000 AMP., 120/208VAC, 3-PHASE, 4-WIRE ASCO SERVICE RATED MAIN SERVICE TRANSFER SWITCH TO REMAIN AS IS. PLEASE NOTE ENTIRE BUILDING ON THE EMERGENCY BACK UP POWER. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.
2. 200 AMP., 120/208VAC, 3-POLE FUSIBLE DISCONNECT TO FEED 'LIFE-SAFETY' BRANCH FEEDING PANELBOARD 'E'.ITO REMAIN AS IS. REFER TO ELECTRIC RISER DIAGRAM FOR **1/E401**.
3. DISCONNECT, REMOVE AND DISPOSE OF EXISTING 200 AMP., 120/208VAC, 3-PHASE, 4-WIRE 'LIFE-SAFETY' EMERGENCY PANELBOARD 'E'. PLEASE NOTE A NEW SQUARE 'D' (ONLY) REPLACEMENT PANELBOARD WILL BE INSTALLED APPROXIMATELY 14'-0" TO THE NORTH ON SAME WALL. PROVIDE AS AN ALTERNATE BID. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.
4. EXISTING 200 AMP., 120/208VAC, 3-PHASE, 4-WIRE 'LIFE-SAFETY' AUTOMATIC TRANSFER SWITCH TO REMAIN AS IS. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.
5. ELECTRICAL CONTRACTOR SHALL INSTALL 7.5 HP, 208VAC, 3-PHASE, VFD PROVIDED BY MECHANICAL CONTRACTOR.
6. CONNECT VFD TO PANELBOARD 'P' LOCATED IN MECHANICAL ROOM 022. PROVIDE A 50/3 SQUARE 'D' CIRCUIT BREAKER AS REQUIRED.
7. CONNECT BOILER TO PANELBOARD 'C' LOCATED IN MECHANICAL ROOM 022. PROVIDE A 20/1 SQUARE 'D' SHUNT-TRIP CIRCUIT BREAKER AS REQUIRED.
8. PROVIDE A SQUARE D EMERGENCY BOILER SHUT-DOWN SWITCH WITH MUSHROOM-TYPE HEAD, MODEL # 9001KYK14 OR EQUAL. CLEARLY LABEL "BOILER EMERGENCY SHUT DOWN". CONNECT TO SHUNT-TRIP BREAKERS IN PANELBOARD 'C'. PROVIDE A 120VC CONTROL CIRCUIT AS REQUIRED FED FROM PANELBOARD 'C'.
9. PROVIDE A 120/1 CONTROL CIRCUIT AND CONNECT TO TWO (2) SHUNT-TRIP CIRCUIT BREAKERS IN PANELBOARD 'C'. THESE SHUNT-TRIP CIRCUIT BREAKERS SHALL SHUT-DOWN BOILERS# 1 & 2 WHEN ACTIVATED BY BOILER EMERGENCY SHUT-DOWN SWITCH.
10. DISCONNECT, REMOVE AND DISPOSE OF EXISTING 800 AMP., 120/208VAC, 3-PHASE, 4-WIRE 'WESTINGHOUSE' PANELBOARD 'P' AND ASSOCIATED FEEDER CONDUCTORS. EXISTING PANELBOARD 'P' SHALL BE REPLACED IN SAME LOCATION WITH NEW SQUARE 'D' ONLY PANELBOARD. REUSE EXISTING EMPTY CONDUIT TO THE EXTENT POSSIBLE FOR NEW FEEDER. PROVIDE AS AN ALTERNATE BID. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.
11. DISCONNECT, REMOVE AND DISPOSE OF EXISTING 100 AMP., 120/208VAC, 3-PHASE, 4-WIRE 'WESTINGHOUSE' PANELBOARD 'C' AND ASSOCIATED FEEDER. EXISTING PANELBOARD 'C' SHALL BE REPLACED WITH NEW SQUARE 'D' (ONLY) PANELBOARD IN SAME LOCATION. REUSE EXISTING EMPTY CONDUIT TO THE EXTENT POSSIBLE FOR NEW FEEDER. PANELBOARD AND FEEDER REPLACEMENT SHALL BE INCLUDED AS AN ALTERNATE BID. PROVIDE TWO (2) 20/1 (SHUNT-TRIP) CIRCUIT BREAKERS AS REQUIRED TO FEED BOILERS BLR-1 & BLR-2, ONE (1) 20/1 BOILER EMERGENCY SHUT-DOWN CONTROL CIRCUIT, TWO (2) 20/2 FOR BOILER CIRCULATING PUMPS BCP-1 & BCP-2 AND ONE (1) 20/1 FOR CIRCULATING PUMP HCP-1. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.
12. CONNECT MOTOR/EQUIPMENT TO PANELBAORD 'C'.
13. EXISTING 2,000 AMP., 120/208VAC, 3-PHASE, 4-WIRE SQUARE 'D' QED SWITCHBOARD LABELED 'MDP'. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.
14. EXISTING PANELBOARD(S) TO REMAIN AS IS, NO WORK ANTICIPATED IN THESE PANELBOARDS.
15. EXISTING DOOR ACCESS CONTROL PANEL TO REMAIN AS IS.
16. PROVIDE A GROUNDING BAR AND CONNECT TO NEUTRAL BUSS BAR ON SWITCHBOARD 'MDP'. REFER TO GROUNDING RISER DIAGRAM **2/E401**.
17. CONNECT BOILER CIRCULATING PUMPS TO EXISTING PANELBOARD 'C' LOCATED IN MECHANICAL ROOM 022.
18. DISCONNECT, REMOVE AND DISPOSE OF EXISTING 225 AMP., 120/208VAC, 3-PHASE, 4-WIRE 'WESTINGHOUSE' PANELBOARD AND ASSOCIATED FEEDER CONDUCTORS. EXISTING PANELBOARD SHALL BE REPLACED IN SAME APPROXIMATE LOCATION WITH NEW SQUARE 'D' ONLY PANELBOARD. REUSE EXISTING EMPTY CONDUIT TO THE EXTENT POSSIBLE FOR NEW FEEDER. PROVIDE AS AN ALTERNATE BID. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.

NORTH

1 ELECTRICAL POWER PLAN - BASEMENT

1/8" = 1'-0"



NORTH

2 BASEMENT POWER - EQUIP. RM. 024

1/4" = 1'-0"

KEYED EQUIPMENT ROOM 024 NOTES:

1. PROVIDE A 125 AMP., 3-POLE, HEAVY DUTY, 208VAC, 3-PHASE, DISCONNECT WITH AUXILIARY CONTACTS AND SHUNT-TRIP FOR ELEVATOR CONTROLLER. PROVIDE 110 AMP. FUSES, VERIFY FUSE SIZE WITH ELEVATOR INSTALLER. PROVIDEA 'BUSSMAN' ALL-IN-ONE ELEVATOR DISCONNECT. PROVIDE POWER MODULE SWITCH AS REQUIRED. MODEL #PS-2-T20-R1-K-G-N2-B-F3-TYPE1. VERIFY CONTROL VOLTAGES WITH ELEVATOR INSTALLER AND FIRE ALARM INSTALLER.
2. INSTALL ELEVATOR PIT LIGHTING FIXTURE AS DIRECTED BY ELEVATOR INSTALLER.
3. LOCATE SINGLE POLE LIGHT SWITCH AS DIRECTED BY ELEVATOR INSTALLER.
4. LOCATE G.F.C.I. RECEPTACLE AS DIRECTED BY ELEVATOR INSTALLER.
5. PROVIDE A 20 AMP., 120VAC, SINGLE RECEPTACLE FOR SUMP PUMP CORD AND PLUG CONNECTION. COORDINATE LOCATION WITH ELEVATOR INSTALLER.
6. MAKE FINAL CONNECTION TO ELEVATOR CONTROLLER.
7. MAKE FINAL CONNECTION TO ELEVATOR CAR LIGHTS.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE TWO (2) CAT6 CABLES BETWEEN ELEVATOR CONTROLLER AND DATA EQUIPMENT RACK LOCATED IN COMPUTER ROOM #014F AND TERMINATE BOTH ENDS OF CABLES. COORDIANTE WITH WTC IT DEPARTMENT.
9. PROVIDE AND INSTALL THREE (3) ELEVATOR RECALL FIRE ALARM SYSTEM MODULES. COORDINATE WITH FIRE ALARM SYSTEM PROVIDER. LOCATED WITHIN 3'-0" OF ELEVATOR CONTROLLER. CONNECT TO FIRE ALARM CONTROL PANEL.
10. PROVIDE AN ENCLOSED 20/1 CIRCUIT BREAKER ENCLOSURE WITH LOCKABLE COVER FOR ELEVATOR CAR LIGHTS. IF APPROVED BY LOCAL AND STATE ELECTRICAL AND ELEVATOR INSPECTORS IT SHALL BE ALLOWED TO USE CIRCUIT BREAKER LOCATED IN PANELBOARD 'EV' WITH LOCK-OFF CAPABILITIES.
11. PROVIDE A 100 AMP., 120/208VAC, 3-PHASE, 4-WIRE PANELBOARD 'EV' DEDICATED FOR ELEVATOR LOADS. PROVIDE A 60 AMP., 120/208 VAC, 3-PHASE, 4-WIRE FEEDER FOR PANELBOARD 'EV'. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.
12. PROVIDE A SMOKE DETECTOR AND HEAT DETECTOR AS REQUIRED AT TOP OF ELEVATOR SHAFT. CONNECT TO FIRE ALARM CONTROL PANEL.
13. PROVIDE A SMOKE DETECTOR AND CONNECT TO FIRE ALARM CONTROL PANEL.
14. CONNECT SINGLE POLE SWITCH TO EXISTING LED LIGHTING FIXTURES IN THIS ROOM.
15. PROVIDE A 125 AMP., 120/208VAC, 3-PHASE, 4-WIRE FEEDER FOR ELEVATOR CONTROLLER. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.

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:

galileo CONSULTING GROUP
2929 EAST AVENUE SOUTH, SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9304 FAX: (608) 787-4995
E-MAIL: PPopowski@galileo-group.net

Project Title: **WESTERN TECHNICAL COLLEGE INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **ELECTRICAL POWER PLAN - BASEMENT**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **PCP**

Key Plan:

Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: **VARIES**

Last Update: **8/16/2024 8:19:36 AM**

E200

SHADED AREAS INDICATE "NO WORK"

NORTH

1 ELECTRICAL POWER PLAN - FIRST FLOOR

1/8" = 1'-0"

GENERAL NOTES:

A. PROVIDE SQUARE 'D' PANELBOARS ONLY, NO EQUALS ACCEPTED.
B. WORK PERFORMED IN NON-REMODELED AREAS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP AND PATCHING OF WALLS AND CEILINGS. TYPICAL

KEYED POWER PLAN NOTES-E201 & E202:

1. PROVIDE A DUPLEX RECEPTACLE FOR WALL-MOUNTED MONITOR, 'FISH' WIRING INSIDE EXISTING WALL IF POSSIBLE. OTHERWISE PROVIDE WIREMOLD 500/700 AND INSTALL VERTICALLY FROM ABOVE SUSPENDED CEILING. FIELD VERIFY MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
2. PROVIDE A 20 AMP., 120VAC, CEILING MOUNTED DUPLEX RECEPTACLE FOR OVERHEAD PROJECTOR CORD AND PLUG CONNECTION. COORDINATE EXACT LOCATION WITH WTC IT DEPARTMENT.
3. PROVIDE A NEW 20 AMP., 120VAC DUPLEX RECEPTACLE TO REPLACE EXISTING. INSTALL IN EXISTING JUNCTION BOX. REUSE EXISTING CONDUIT INSTALLED IN WALL TO THE EXTENT POSSIBLE. PROVIDE NEW BRANCH-CIRCUIT WIRING TO WIRING-DEVICE. PROVIDE A NEW STAINLESS STEEL COVER PLATE. PROVIDE GFI RECEPTACLE WHERE NOTED.
4. ELECTRICAL CONTRACTOR SHALL INSTALL A WTC 'STANDARDIZED' LATHEM AIRTIME CLOCK AND BACKBOX AT THIS LOCATION PROVIDED BY WTC FACILITY MAINTENANCE DEPARTMENT (OWNER). INSTALL A LATHEM AIRTIME BACKBOX WITH 120VAC RECEPTACLE PROVIDED BY OWNER. INSTALL A 120VAC LATHEM AIRTIME WIRELESS CLOCK PROVIDED BY OWNER. PROVIDE A 120VAC BRANCH-CIRCUIT WIRING AND MAKE FINAL CONNECTION AS REQUIRED. FIELD VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN. MOUNT BACKBOX FLUSH IN NEW WALLS, SURFACE MOUNT IS ACCEPTABLE IN EXISTING WALLS, COORDINATE WITH WTC PLANT FACILITY DEPARTMENT. REINSTALL EXISTING CLOCK PREVIOUSLY REMOVED DURING DEMO PHASE OF PROJECT.
5. ELECTRICAL CONTRACTOR SHALL INSTALL 40VA TYPE OF TRANSFORMER PROVIDED BY PLUMBING CONTRACTOR FOR AUTOMATIC FLUSH VALVE CONTROL. COORDINATE WITH PLUMBING CONTRACTOR.
6. PROVIDE A SINGLE-POLE SWITCH TO CONTROL AUTOMATIC FLUSH VALVE TRANSFORMERS, CLEARLY LABEL AS DIRECTED BY WTC FACILITY MAINTENANCE DEPARTMENT.
7. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO LOW VOLTAGE CONTROL SYSTEM FOR OVERHEAD DOOR SENSORS AND START/STOP STATION. INSTALL LOW VOLTAGE WIRING INSIDE EMT CONDUIT RACEWAY SYSTEM, DO NOT INSTALL LOW VOLTAGE WIRING 'FREE-AIR'.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE AN INDUSTRIAL GRADE 'WHITE' RETRACTABLE CORD REEL WITH A 20 AMP., DUPLEX RECEPTACLE. HUBBELL, MODEL #HBL145123GF220M1. SET RETRACTABLE CORD TO APPROXIMATELY 4'-0" ABOVE FINISH FLOOR, CORD REEL SHALL BE CONSTRUCTED OF ALUMINUM MATERIAL. FIELD VERIFY MOUNTING LOCATION WITH WTC INSTRUCTOR'S. REFER TO DETAIL **1/E402**.
9. PROVIDE A COMBINATION POWER/DATA WIREMOLD 4000 SERIES SURFACE RACEWAY.
10. FOR ESTIMATING PURPOSES ONLY, PROVIDE A 20AMP., 208VAC, 3-WIRE SINGLE RECEPTACLE, NEMA 6-20R. CONFIRM WITH WTC INSTRUCTOR PRIOR TO PURCHASING AND INSTALLING SINGLE RECEPTACLE.
11. PROVIDE A 20AMP., 120VAC, DOUBLE DUPLEX RECEPTACLE FOR TEACHER'S STATION.
12. PROVIDE A DOUBLE DUPLEX RECEPTACLE FOR NEW 'STUDENT' IT EQUIPMENT RACK. COORDINATE WITH WTC IT DEPARTMENT. PROVIDE A 20 AMP., 120VAC BRANCH-CIRCUIT.
13. MAKE FINAL CONNECTION TO EXTERIOR SIGN.
14. MAKE FINAL CONNECTION TO MOTORIZED ASSISTED DOOR OPENER. WIRE ASSOCIATED LOW VOLTAGE 'HARD-WIRED' LOW VOLTAGE PUSHBUTTONS.
15. CONNECT MOTORIZED ASSISTED DOOR PUSHBUTTON TO EXTERIOR ALUMINUM POST.
16. EXTERIOR ALUMINUM POST PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
17. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A COMBINATION POWER/COMMUNICATION FLOOR JUNCTION BOX AS FOLLOWS:
    A. ONE (1) WIREMOLD RFB4 – 4 COMPARTMENT COMBINATION BOX.
    B. TWO (2) WIREMOLD RFB-DR-DUPLEX RECEPTACLE BRACKETS.
    C. TWO (2) WIREMOLD DTB-2-3T COMMUNICATION BRACKETS.
    D. ONE (1) RFB4 COVER PLATE TO MATCH FLOORING TYPE.
    E. CONSULT WIREMOLD SALES REPRESENTATIVE TO CONFIRM QUANTITY AND MODEL NUMBERS.
18. CONNECT TRANSFORMER TO NEAREST AVAILABLE EXISTING 120VAC BRANCH-CIRUIT IN THIS ROOM.
19. PROVIDE A DUPLEX RECEPTACLE FOR LAP-TOP COMPUTER CHARGING CART.
20. PROVIDE A DUPLEX RECEPTACLE FOR REFRIGERATOR, FEED WITH GFI CIRCUIT BREAKER.
21. PROVIDE A 20AMP., 120VAC, DUPLEX RECEPTACLE FOR MICROWAVE OVEN.
22. PROVIDE A 20 AMP., 120VAC, NEMA L5-20R RECEPTACLE. RECEPTACLE SHALL MATCH 20 AMP., 120VAC, TWIST-LOCK CORD AND PLUG ON TABLE. COORDINATE WITH WTC PLANT FACILITY DEPARTMENT.
23. TABLE INCLUDES A 20 AMP., 120VAC, TWIST-LOCK CORD AND PLUG.
24. CONNECT EXHAUST FAN TO ROOM LIGHTING FIXTURES.
25. EXISTING PANELBOARDS 'D' AND 'D1' ARE NEWER SQUARE 'D' PANELS. USE 'SPARE' CIRCUIT BREAKERS IN THESE PANELS FOR REMODEL PROJECT. THERE IS AMPLE QUANTITY OF CIRCUIT BREAKERS AVAILABLE TO FEED REMODEL LOADS.
26. DISCONNECT EXISTING 120VAC MOTORIZED ASSISTED DOOR OPENER FOR REMOVAL AND RECONNECT A NEW 120VAC MOTORIZED DOOR OPENER INSTALLED IN SAME LOCATION. REUSE EXISTING BRANCH-CIRCUIT.
27. PROVIDE A 'REPLACEMENT' PANELBOARD INSTALLED IN THIS APPROXIMATE LOCATION WITH NEW SQUARE 'D' (ONLY) PANELBOARD. REUSE EXISTING EMPTY CONDUIT TO THE EXTENT POSSIBLE FOR NEW FEEDER. PROVIDE AS AN ALTERNATE BID. REFER TO ELECTRIC RISER DIAGRAM **1/E401**.

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ENGINEERING
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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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Consultant:

galileo CONSULTING GROUP
2929 EAST AVENUE SOUTH, SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9566 FAX: (608) 787-4995
E-MAIL: PPopowski@galileo-group.net

Project Title: **WESTERN TECHNICAL COLLEGE INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **ELECTRICAL POWER PLAN - FIRST FLOOR**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **PCP**

Key Plan:

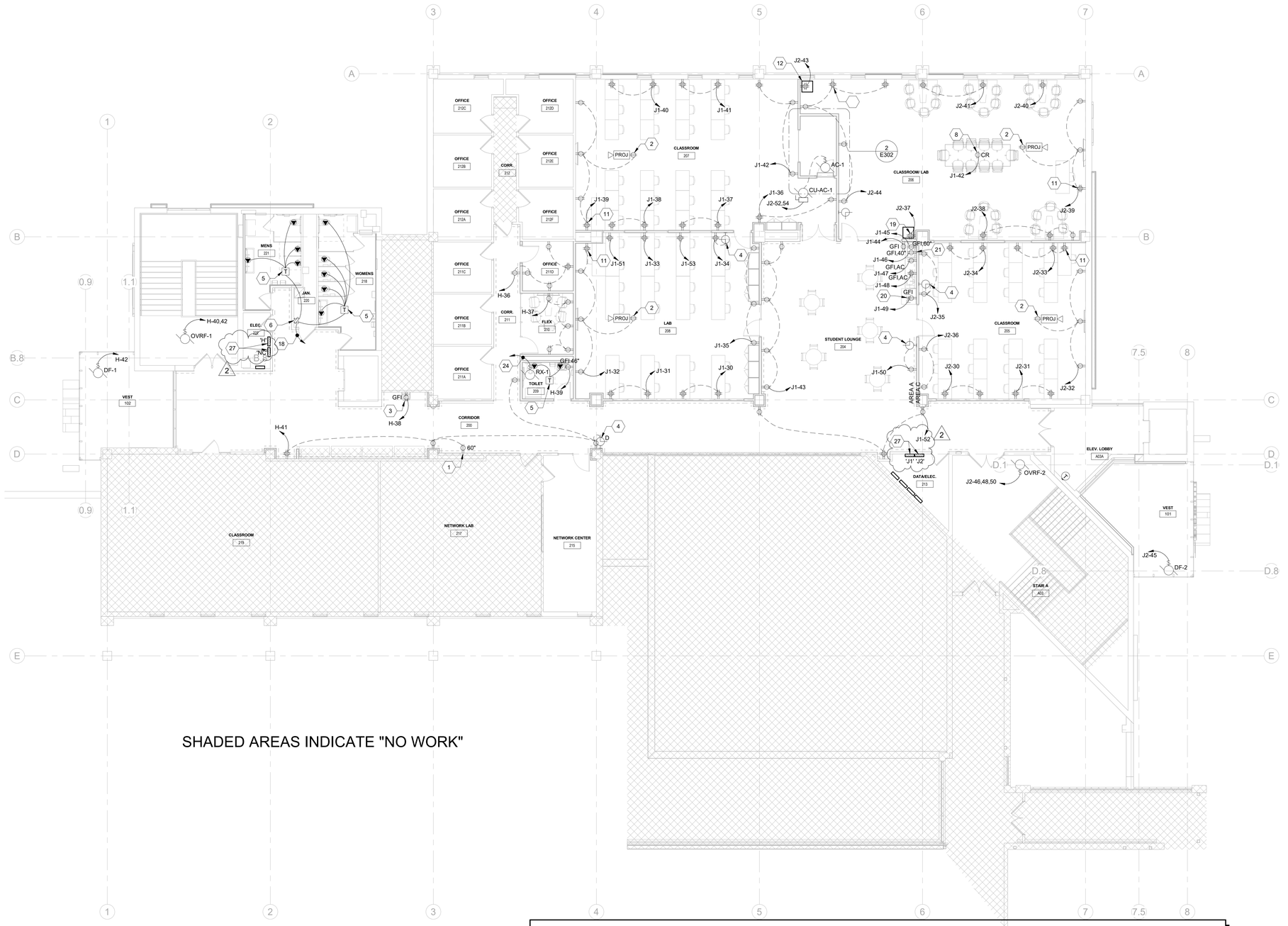
Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: **VARIES**

Last Update: **8/16/2024 8:19:37 AM**

E201



SHADED AREAS INDICATE "NO WORK"

NORTH

1 ELECTRICAL POWER PLAN - SECOND FLOOR

1/8" = 1'-0"

GENERAL NOTES:

A. PROVIDE SQUARE 'D' PANELBOARS ONLY, NO EQUALS ACCEPTED.
B. WORK PERFORMED IN NON-REMODELED AREAS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP AND PATCHING OF WALLS AND CEILINGS. TYPICAL

KEYED POWER PLAN NOTES-E201 & E202:

1. PROVIDE A DUPLEX RECEPTACLE FOR WALL-MOUNTED MONITOR, 'FISH' WIRING INSIDE EXISTING WALL IF POSSIBLE. OTHERWISE PROVIDE WIREMOLD 500/700 AND INSTALL VERTICALLY FROM ABOVE SUSPENDED CEILING. FIELD VERIFY MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
2. PROVIDE A 20 AMP., 120VAC, CEILING MOUNTED DUPLEX RECEPTACLE FOR OVERHEAD PROJECTOR CORD AND PLUG CONNECTION. COORDINATE EXACT LOCATION WITH WTC IT DEPARTMENT.
3. PROVIDE A NEW 20 AMP., 120VAC DUPLEX RECEPTACLE TO REPLACE EXISTING, INSTALL IN EXISTING JUNCTION BOX. REUSE EXISTING CONDUIT INSTALLED IN WALL TO THE EXTENT POSSIBLE. PROVIDE NEW BRANCH-CIRCUIT WIRING TO WIRING-DEVICE. PROVIDE A NEW STAINLESS STEEL COVER PLATE. PROVIDE GFI RECEPTACLE WHERE NOTED.
4. ELECTRICAL CONTRACTOR SHALL INSTALL A WTC 'STANDARDIZED' LATHEM AIRTIME CLOCK AND BACKBOX AT THIS LOCATION PROVIDED BY WTC FACILITY MAINTENANCE DEPARTMENT (OWNER). INSTALL A LATHEM AIRTIME BACKBOX WITH 120VAC RECEPTACLE PROVIDED BY OWNER. INSTALL A 120VAC LATHEM AIRTIME WIRELESS CLOCK PROVIDED BY OWNER. PROVIDE A 120VAC BRANCH-CIRCUIT WIRING AND MAKE FINAL CONNECTION AS REQUIRED. FIELD VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN. MOUNT BACKBOX FLUSH IN NEW WALLS. SURFACE MOUNT IS ACCEPTABLE IN EXISTING WALLS. COORDINATE WITH WTC PLANT FACILITY DEPARTMENT. REINSTALL EXISTING CLOCK PREVIOUSLY REMOVED DURING DEMO PHASE OF PROJECT.
5. ELECTRICAL CONTRACTOR SHALL INSTALL 40VA TYPE OF TRANSFORMER PROVIDED BY PLUMBING CONTRACTOR FOR AUTOMATIC FLUSH VALVE CONTROL. COORDINATE WITH PLUMBING CONTRACTOR.
6. PROVIDE A SINGLE-POLE SWITCH TO CONTROL AUTOMATIC FLUSH VALVE TRANSFORMERS, CLEARLY LABEL AS DIRECTED BY WTC FACILITY MAINTENANCE DEPARTMENT.
7. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO LOW VOLTAGE CONTROL SYSTEM FOR OVERHEAD DOOR SENSORS AND START/STOP STATION. INSTALL LOW VOLTAGE WIRING INSIDE EMT CONDUIT RACEWAY SYSTEM, DO NOT INSTALL LOW VOLTAGE WIRING 'FREE-AIR'.
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14. MAKE FINAL CONNECTION TO MOTORIZED ASSISTED DOOR OPENER, WIRE ASSOCIATED LOW VOLTAGE 'HARD-WIRED' LOW VOLTAGE PUSHBUTTONS.
15. CONNECT MOTORIZED ASSISTED DOOR PUSHBUTTON TO EXTERIOR ALUMINUM POST.
16. EXTERIOR ALUMINUM POST PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
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    C. TWO (2) WIREMOLD DTB-2-3T COMMUNICATION BRACKETS.
    D. ONE (1) RFB4 COVER PLATE TO MATCH FLOORING TYPE.
    E. CONSULT WIREMOLD SALES REPRESENTATIVE TO CONFIRM QUANTITY AND MODEL NUMBERS.
18. CONNECT TRANSFORMER TO NEAREST AVAILABLE EXISTING 120VAC BRANCH-CIRUIT IN THIS ROOM.
19. PROVIDE A DUPLEX RECEPTACLE FOR LAP-TOP COMPUTER CHARGING CART.
20. PROVIDE A DUPLEX RECEPTACLE FOR REFRIGERATOR, FEED WITH GFI CIRCUIT BREAKER.
21. PROVIDE A 20AMP., 120VAC, DUPLEX RECEPTACLE FOR MICROWAVE OVEN.
22. PROVIDE A 20 AMP., 120VAC, NEMA L5-20R RECEPTACLE. RECEPTACLE SHALL MATCH 20 AMP., 120VAC, TWIST-LOCK CORD AND PLUG ON TABLE. COORDINATE WITH WTC PLANT FACILITY DEPARTMENT.
23. TABLE INCLUDES A 20 AMP., 120VAC, TWIST-LOCK CORD AND PLUG.
24. CONNECT EXHAUST FAN TO ROOM LIGHTING FIXTURES.
25. EXISTING PANELBOARDS 'D' AND 'D1' ARE NEWER SQUARE 'D' PANELS, USE 'SPARE' CIRCUIT BREAKERS IN THESE PANELS FOR REMODEL PROJECT, THERE IS AMPLE QUANTITY OF CIRCUIT BREAKERS AVAILABLE TO FEED REMODEL LOADS.
26. DISCONNECT EXISTING 120VAC MOTORIZED ASSISTED DOOR OPENER FOR REMOVAL AND RECONNECT A NEW 120VAC MOTORIZED DOOR OPENER INSTALLED IN SAME LOCATION. REUSE EXISTING BRANCH-CIRCUIT.
27. PROVIDE A 'REPLACEMENT' PANELBOARD INSTALLED IN THIS APPROXIMATE LOCATION WITH NEW SQUARE 'D' (ONLY) PANELBOARD. REUSE EXISTING EMPTY CONDUIT TO THE EXTENT POSSIBLE FOR NEW FEEDER. PROVIDE AS AN ALTERNATE BID. REFER TO ELECTRIC RISER DIAGRAM **1/E401**

2

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:

galileo CONSULTING GROUP
2929 EAST AVE SOUTH, SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9504, FAX: (608) 787-4995
E-MAIL: PPopowich@galileo-group.net

Project Title: **WESTERN TECHNICAL COLLEGE INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **ELECTRICAL POWER PLAN - SECOND FLOOR**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **PCP**

Key Plan:

Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: **VARIES**

Last Update: **8/16/2024 8:19:38 AM**

E202

GENERAL LOW VOLTAGE NOTES:

A. COLOR CODING SHALL BE AS FOLLOWS:
1. NETWORKING (DATA) = ORANGE DATA JACKS WITH BLUE CAT6A CABLES.
2. IP PHONE = ORANGE DATA JACKS WITH BLUE CAT6A CABLES
3. AUDIO/VIDEO (A/V) = GREEN DATA JACKS WITH GREEN CATE 6A CABLE
4. SECURITY CAMERAS = WHITE JACKS WITH WHITE CAT6A CABLE
5. ELECTRONIC DOOR ACCESS SYSTEM = YELLOW MULTI-ELEMENT SMART CABLE
6. HVAC CONTROLS = PURPLE JACKS WITH PURPLE CAT6A CABLES.
7. NETWORKING (DATA) FOR STUDENTS = GRAY DATA JACKS WITH GRAY CAT6A CABLES.
8. NERWORKING DATA) FOR NOC = BLUE DATA JACKS WITH BLUE CAT6A CABLES.
9. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE 'J' HOOKS AND CONDUIT SLEEVES THROUGH WALLS FOR LOW VOLTAGE CABLE ROUTING AS REQUIRED.

B. **ALL** LOW VOLTAGE WIRING SHALL BE 'PLENUM' RATED.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 'J-HOOK' TYPE LOW VOLTAGE CABLE WIRING SUPPORT ON 4'-0" CENTERS ABOVE SUSPENDED ACOUSTIC CEILINGS BETWEEN CONDUIT WALL STUBS AND CABLE TRAY, ETC. ALL LOW VOLTAGE WIRING SHALL BE INDEPENDANTLY SUPPORTED SEPARATE FROM GRID TYPE CEILINGS, NO EXCEPTIONS.

D. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LOW VOLTAGE WIRING, DATA JACKS, ETC. FOR A COMPLETE SYSTEM FOR THIS PROJECT.

KEYED LOW VOLTAGE PLAN NOTES:

1. APPROXIMATE LOCATION OF NEW WIRELESS ACCESS POINT PROVIDED AND INSTALLED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE (1) NETWORK CAT6A CABLES BETWEEN WIRELESS ACCESS POINT AND EXISTING IT NETWORK EQUIPMENT RACK #3 LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS. PROVIDE JUNCTION BOXES AS REQUIRED IN CEILING OR WALL. COORDINATE WITH WTC IT DEPARTMENT.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND EXISTING IT NETWORK EQUIPMENT RACK #3 LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT FOR WALL-MOUNTED MONITOR AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FIVE (5) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR OVERHEAD PROJECTOR **OR** WALL-MONITOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN OVERHEAD PROJECTOR **OR** WAL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S STATION JUNCTION BOX. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED MOUNTED FLUSH IN CEILING **OR** WALL FOR DATA/AV WIRING.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **# 014F** IN BASEMENT AND TERMINATE BOTH ENDS.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** AND TERMINATE BOTH ENDS.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** FOR WALL-MOUNTED MONITOR AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A EIGHT (8) PORT DATA JACK. PROVIDE FOUR (4) NETWORK CAT6A CABLES BETWEEN EIGHT-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS. PROVIDE FOUR (4) NETWORK CAT6A CABLES BETWEEN EIGHT-PORT DATA JACK AND 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** AND TERMINATE BOTH ENDS.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE THREE (3) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS.
11. PROVIDE A COMBINATION POWER/COMMUNICATION POKE THRU WIREMOLD JUNCTION BOX SIZED AS REQUIRED FOR DUPLEX RECEPTACLE AND THREE-PORT DATA JACK.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR WALL-MONITOR. PROVIDE ONE (1) NETWORK CAT 6A CABLE TO IT EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN WALL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S STATION JUNCTION BOX IN ROBOTICS **#110**. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED FOR DATA/AV WIRING.
13. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN ELEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE SIX (6) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND THREE (3) WALL-MONITOR JUNCTION BOXS. PROVIDE ONE (1) CAT6A CABLE TO 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A**. TERMINATE BOTH ENDS OF ALL CABLES. PROVIDE JUNCTION BOXES AND RACEWAYS SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND WALL-MONITOR JUNCTION BOX. PROVIDE ONE (1) CAT6A CABLE TO 'STUDENT' IT EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A**. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
15. PROVIDE A HUBBELL CATEGORY 6 DATA CORD REEL. REFER TO DETAIL **2/E402**. NO EQUALS ACCEPTED. PROVIDE ONE CAT6A CABLE TO 'STUDENT' IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #112A AND TERMINATE BOTH ENDS OF CABLE. SET CORD REEL LENGTH TO REACH FLOOR. (2)
16. PROVIDE WIREMOLD 6000 SERIES SURFACE RACEWAY. PROVIDE SEPARATE FROM POWER.
17. ELECTRICAL CONTRACTOR SHALL INSTALL A SECURITY IP CCTV CAMERA WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM #014F IN BASEMENT. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SMART CABLE' HOMERUN TO NEW ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN IT ROOM #207A ON SECOND FLOOR. SMART CABLE SHALL BE BELDEN, MODEL #658AFJ OR EQUAL, 16 CONDUCTOR, 4 ELEMENT, ACESS CONTROL CABLE, 18-04 + 22-3P + 22-02 + 22-04 PLENUM YELLOW COLOR. REFER TO ELECTRONIC DOOR ACCESS CONROL DETAIL **4/E300**.
19. INSTALL CARD READER ON EXTERIOR METAL PEDESTAL. REFER TO PHOTO **#1/E301** FOR EXAMPLE.
20. EXTERIOR METAL POST PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
21. LOCATION OF LAP-TOP COMPUTER CHARGING CART.
22. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 'STUDENT' FLOOR MOUNTED 2-POST NETWORK EQUIPMENT RACK. REFER TO DETAIL **3/E402**.
23. ELECTRICAL CONTRACTOR SHALL PROVIDE A 12 STRAND, SINGLE-MODE FIBER OPTIC CABLE FEED FOR NEW 'STUDENT' IT EQUIPMENT RACK. FEED FROM COMPUTER ROOM #014F. REFER TO FIBER OPTIC RISER DIAGRAM **2/E401**.
24. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN THREE-PORT DATA JACK AND 'NOC' IT NETWORK EQUIPMENT RACK LOCATED IN NETWORK CENTER **215**. TERMINATE BOTH ENDS OF CABLE.
25. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
26. APPROXIMATE LOCATION OF NEW WIRELESS ACCESS POINT PROVIDED AND INSTALLED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN WIRELESS ACCESS POINT AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE JUNCTION BOXES AS REQUIRED IN CEILING OR WALL. COORDINATE WITH WTC IT DEPARTMENT.
27. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS.
28. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND EXISTING 'NOC' IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER CENTER **215** AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
29. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE THREE (3) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS.
30. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR (4) PORT DATA JACK. PROVIDE FOUR (4) NETWORK CAT6A CABLES BETWEEN FOUR-PORT DATA JACK AND EXISTING 'NOC' IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER CENTER **215** AND TERMINATE BOTH ENDS.
31. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND EXISTING 'NOC' IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER NETWORK CENTER **215** AND TERMINATE BOTH ENDS.
32. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FIVE (5) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
33. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A EIGHT-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FIVE (5) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE ONE (1) NETWORK CAT6A CABLE TO 'NOC' IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER NETWORK CENTER **215.** PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
34. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR OVERHEAD PROJECTOR **OR** WALL-MONITOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN IT ROOM **207A**. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN OVERHEAD PROJECTOR **OR** WAL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S STATION JUNCTION BOX. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED MOUNTED FLUSH IN CEILING **OR** WALL FOR DATA/AV WIRING.
35. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FIVE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR POD STATION. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE ONE (1) NETWORK CAT6A CABLE TO 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER/LAB **208**. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN POD STATION DATA/AV JACKS AND IT EQUIPMENT RACK LOCATED IN IT ROOM **207A**. TERMINATE BOTH ENDS OF EACH CABLE. PROVIDE JUNCTION BOXES AND RACEWAYS SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
36. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN THREE-PORT DATA JACK AND WALL-MOUNTED 'STUDENT' IT EQUIPMENT RACK LOCATED IN THIS ROOM. TERMINATE BOTH ENDS OF CABLE.
37. PROVIDE A 18U WALL-MOUNTED IT EQUIPMENT RACK WITH LOCKABLE COVER. REFER TO DETAIL **7/E402**.
38. EXISTING NETWORK EQUIPMENT RACK TO REMAIN. IT WILL BE REQURED FOR THE ELECTRICAL CONTRACTOR TO UPGRADE WITH CAT6 AND CAT6A PATCH PANELS AS REQUIRED FOR REMODEL PROJECT.
39. PROVIDE ONE (1) 12 STRAND SINGLE MODE FIBER OPTIC FEED TO NEW EQUIPMENT IT RACK LOCATED IN STORAGE ROOM 112A. PROVIDE A ONE (1) 12 STRAND SINGLE MODE FIBER OPTIC CABLE FEED TO NEW IT EQUIPMENT RACKS LOCATED IN IT ROOM 207A. REFER TO GROUNDING AND FIBER OPTIC RISER DIAGRAM **2/E401**.
40. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) NETWORK CAT6A CABLES BETWEEN ELEVATOR CONTROLLER AND EXISTING IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM 014F AND TERMINATE BOTH ENDS.
41. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** AND TERMINATE BOTH ENDS.
42. ELECTRICAL CONTRACTOR SHALL INSTALL A SECURITY IP CCTV CAMERA WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** OR IT ROOM **#207A**. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
43. IN THIS ROOM ALL LOW VOLTAGE CABLES SHALL BE SHIELDED TO AVOID INTERFERENCE TO ROBOTIC EQUIPMENT.
44. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NINE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE FIVE (5) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND IT EQUIPMENT RACK LOCATED IN IT ROOM 207A. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
45. PROVIDE 4"DEEP X 12" WIRE BASKET CABLE TRAY AS SPECIFIED.
46. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A EIGHT-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE SIX (6) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
47. ELECTRICAL CONTRACTOR SHALL INSTALL ONE (1) ALERTIS SYSTEM BEACON PROVIDED BY WTC FACILITY DEPARTMENT OR WTC IT DEPARTMENT. PROVIDE ONE (1) CAT6A CABLE TO IT EQUIPMENT RACK LOCATED IN BASEMENT COMPUTER ROOM 014F AND TERMINATE BOTH ENDS.
48. ELECTRICAL CONTRACTOR SHALL PROVIDE A LOW VOLTAGE CABLE HOMERUN TO NEW ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN IT ROOM #207A ON SECOND FLOOR FOR OVERHEAD DOOR CONTACT SWITCH. PROVIDE CABLE AS DIRECTED BY WTC DOOR ACCESS CONROL VENDOR.
49. PROVIDE ADDITIONAL CAT6A PATCH PANELS AS REQUIRED IN EXISTING 'NOC' EQUIPMENT RACKS. COORDINATE WITH WTC IT DEPARTMENT. (2)

NORTH

1 ELECTRICAL LOW VOLTAGE PLAN - BASEMENT

1/8" = 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:
galileo CONSULTING GROUP
2920 EAST AVENUE SOUTH SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9106 FAX: (608) 787-8995
E-MAIL: PPopowich@galileo-group.us

Project Title: **WESTERN TECHNICAL COLLEGE INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **ELECTRICAL LOW VOLTAGE PLAN - BASEMENT**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **PCP**

Key Plan:

Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: **VARIES**

Last Update: **8/16/2024 8:19:40 AM**

E300

GENERAL LOW VOLTAGE NOTES:

A. COLOR CODING SHALL BE AS FOLLOWS:
  1. NETWORKING (DATA) = ORANGE DATA JACKS WITH BLUE CAT6A CABLES.
  2. IP PHONE = ORANGE DATA JACKS WITH BLUE CAT6A CABLES
  3. AUDIO/VIDEO (A/V) = GREEN DATA JACKS WITH GREEN CATE 6A CABLE
  4. SECURITY CAMERAS = WHITE JACKS WITH WHITE CAT6A CABLE
  5. ELECTRONIC DOOR ACCESS SYSTEM = YELLOW MULTI-ELEMENT SMART CABLE
  6. HVAC CONTROLS = PURPLE JACKS WITH PURPLE CAT6A CABLES.
  7. NETWORKING (DATA) FOR STUDENTS = GRAY DATA JACKS WITH GRAY CAT6A CABLES.
  8. NERWORKING DATA) FOR NOC = BLUE DATA JACKS WITH BLUE CAT6A CABLES.
  9. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE 'J' HOOKS AND CONDUIT SLEEVES THROUGH WALLS FOR LOW VOLTAGE CABLE ROUTING AS REQUIRED.

B. **ALL** LOW VOLTAGE WIRING SHALL BE 'PLENUM' RATED.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 'J-HOOK' TYPE LOW VOLTAGE CABLE WIRING SUPPORT ON 4'-0" CENTERS ABOVE SUSPENDED ACOUSTIC CEILINGS BETWEEN CONDUIT WALL STUBS AND CABLE TRAY, ETC. ALL LOW VOLTAGE WIRING SHALL BE INDEPENDANTLY SUPPORTED SEPARATE FROM GRID TYPE CEILINGS, NO EXCEPTIONS.

D. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LOW VOLTAGE WIRING, DATA JACKS, ETC. FOR A COMPLETE SYSTEM FOR THIS PROJECT.

KEYED LOW VOLTAGE PLAN NOTES:

1. APPROXIMATE LOCATION OF NEW WIRELESS ACCESS POINT PROVIDED AND INSTALLED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE (1) NETWORK CAT6A CABLES BETWEEN WIRELESS ACCESS POINT AND EXISTING IT NETWORK EQUIPMENT RACK #3 LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS. PROVIDE JUNCTION BOXES AS REQUIRED IN CEILING OR WALL. COORDINATE WITH WTC IT DEPARTMENT.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND EXISTING IT NETWORK EQUIPMENT RACK #3 LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT FOR WALL-MOUNTED MONITOR AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FIVE (5) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR OVERHEAD PROJECTOR **OR** WALL-MONITOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN OVERHEAD PROJECTOR **OR** WAL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S STATION JUNCTION BOX. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED MOUNTED FLUSH IN CEILING **OR** WALL FOR DATA/AV WIRING.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **# 014F** IN BASEMENT AND TERMINATE BOTH ENDS.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** AND TERMINATE BOTH ENDS.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** FOR WALL-MOUNTED MONITOR AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A EIGHT (8) PORT DATA JACK. PROVIDE FOUR (4) NETWORK CAT6A CABLES BETWEEN EIGHT-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS. PROVIDE FOUR (4) NETWORK CAT6A CABLES BETWEEN EIGHT-PORT DATA JACK AND 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** AND TERMINATE BOTH ENDS.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE THREE (3) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS.
11. PROVIDE A COMBINATION POWER/COMMUNICATION POKE THRU WIREMOLD JUNCTION BOX SIZED AS REQUIRED FOR DUPLEX RECEPTACLE AND THREE-PORT DATA JACK.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR WALL-MONITOR. PROVIDE ONE (1) NETWORK CAT 6A CABLE TO IT EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN WALL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S STATION JUNCTION BOX IN ROBOTICS **#110**. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED FOR DATA/AV WIRING.
13. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN ELEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE SIX (6) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND THREE (3) WALL-MONITOR JUNCTION BOXS. PROVIDE ONE (1) CAT6A CABLE TO 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A**. TERMINATE BOTH ENDS OF ALL CABLES. PROVIDE JUNCTION BOXES AND RACEWAYS SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND WALL-MONITOR JUNCTION BOX. PROVIDE ONE (1) CAT6A CABLE TO 'STUDENT' IT EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A**. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
15. PROVIDE A HUBBELL CATEGORY 6 DATA CORD REEL. REFER TO DETAIL **2/E402**. NO EQUALS ACCEPTED. PROVIDE ONE CAT6A CABLE TO 'STUDENT' IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #112A AND TERMINATE BOTH ENDS OF CABLE. SET CORD REEL LENGTH TO REACH FLOOR.
16. PROVIDE WIREMOLD 6000 SERIES SURFACE RACEWAY. PROVIDE SEPARATE FROM POWER.
17. ELECTRICAL CONTRACTOR SHALL INSTALL A SECURITY IP CCTV CAMERA WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM #014F IN BASEMENT. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE A 'SMART CABLE' HOMERUN TO NEW ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN IT ROOM #207A ON SECOND FLOOR. SMART CABLE SHALL BE BELDEN, MODEL #658AFJ OR EQUAL, 16 CONDUCTOR, 4 ELEMENT, ACESS CONTROL CABLE, 18-04 + 22-3P + 22-02 + 22-04 PLENUM YELLOW COLOR. REFER TO ELECTRONIC DOOR ACESS CONROL DETAIL **4/E300**.
19. INSTALL CARD READER ON EXTERIOR METAL PEDESTAL. REFER TO PHOTO **#1/E301** FOR EXAMPLE.
20. EXTERIOR METAL POST PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
21. LOCATION OF LAP-TOP COMPUTER CHARGING CART.
22. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 'STUDENT' FLOOR MOUNTED 2-POST NETWORK EQUIPMENT RACK. REFER TO DETAIL **3/E402**.
23. ELECTRICAL CONTRACTOR SHALL PROVIDE A 12 STRAND, SINGLE-MODE FIBER OPTIC CABLE FEED FOR NEW 'STUDENT' IT EQUIPMENT RACK. FEED FROM COMPUTER ROOM #014F. REFER TO FIBER OPTIC RISER DIAGRAM **2/E401**.
24. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN THREE-PORT DATA JACK AND 'NOC' IT NETWORK EQUIPMENT RACK LOCATED IN NETWORK CENTER **215**. TERMINATE BOTH ENDS OF CABLE.
25. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
26. APPROXIMATE LOCATION OF NEW WIRELESS ACCESS POINT PROVIDED AND INSTALLED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN WIRELESS ACCESS POINT AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE JUNCTION BOXES AS REQUIRED IN CEILING OR WALL. COORDINATE WITH WTC IT DEPARTMENT.
27. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS.
28. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND EXISTING 'NOC' IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER CENTER **215** AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾" EMT CONDUIT TO 'J' HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
29. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE THREE (3) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS.
30. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR (4) PORT DATA JACK. PROVIDE FOUR (4) NETWORK CAT6A CABLES BETWEEN FOUR-PORT DATA JACK AND EXISTING 'NOC' IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER CENTER **215** AND TERMINATE BOTH ENDS.
31. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND EXISTING 'NOC' IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER NETWORK CENTER **215** AND TERMINATE BOTH ENDS.
32. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FIVE (5) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
33. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A EIGHT-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FIVE (5) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE ONE (1) NETWORK CAT6A CABLE TO 'NOC' IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER NETWORK CENTER **215.** PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
34. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR OVERHEAD PROJECTOR **OR** WALL-MONITOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN IT ROOM **207A**. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN OVERHEAD PROJECTOR **OR** WAL-MOUNT MONITOR JUNCTION BOX AND TEACHER'S STATION JUNCTION BOX. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED MOUNTED FLUSH IN CEILING **OR** WALL FOR DATA/AV WIRING.
35. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FIVE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR POD STATION. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE ONE (1) NETWORK CAT6A CABLE TO 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER/LAB **208**. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN POD STATION DATA/AV JACKS AND IT EQUIPMENT RACK LOCATED IN IT ROOM **207A**. TERMINATE BOTH ENDS OF EACH CABLE. PROVIDE JUNCTION BOXES AND RACEWAYS SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
36. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN THREE-PORT DATA JACK AND WALL-MOUNTED 'STUDENT' IT EQUIPMENT RACK LOCATED IN THIS ROOM. TERMINATE BOTH ENDS OF CABLE.
37. PROVIDE A 18U WALL-MOUNTED IT EQUIPMENT RACK WITH LOCKABLE COVER. REFER TO DETAIL **7/E402**.
38. EXISTING NETWORK EQUIPMENT RACK TO REMAIN. IT WILL BE REQURED FOR THE ELECTRICAL CONTRACTOR TO UPGRADE WITH CAT6 AND CAT6A PATCH PANELS AS REQUIRED FOR REMODEL PROJECT.
39. PROVIDE ONE (1) 12 STRAND SINGLE MODE FIBER OPTIC FEED TO NEW EQUIPMENT IT RACK LOCATED IN STORAGE ROOM 112A. PROVIDE A ONE (1) 12 STRAND SINGLE MODE FIBER OPTIC CABLE FEED TO NEW IT EQUIPMENT RACKS LOCATED IN IT ROOM 207A. REFER TO GROUNDING AND FIBER OPTIC RISER DIAGRAM **2/E401**.
40. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) NETWORK CAT6A CABLES BETWEEN ELEVATOR CONTROLLER AND EXISTING IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM 014F AND TERMINATE BOTH ENDS.
41. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND 'STUDENT' IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** AND TERMINATE BOTH ENDS.
42. ELECTRICAL CONTRACTOR SHALL INSTALL A SECURITY IP CCTV CAMERA WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** OR IT ROOM **#207A**. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
43. IN THIS ROOM ALL LOW VOLTAGE CABLES SHALL BE SHIELDED TO AVOID INTERFERENCE TO ROBOTIC EQUIPMENT.
44. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NINE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE FIVE (5) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND IT EQUIPMENT RACK LOCATED IN IT ROOM 207A. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
45. PROVIDE 4"DEEP X 12" WIRE BASKET CABLE TRAY AS SPECIFIED.
46. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A EIGHT-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER'S STATION. PROVIDE SIX (6) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER'S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
47. ELECTRICAL CONTRACTOR SHALL INSTALL ONE (1) ALERTIS SYSTEM BEACON PROVIDED BY WTC FACILITY DEPARTMENT OR WTC IT DEPARTMENT. PROVIDE ONE (1) CAT6A CABLE TO IT EQUIPMENT RACK LOCATED IN BASEMENT COMPUTER ROOM 014F AND TERMINATE BOTH ENDS.
48. ELECTRICAL CONTRACTOR SHALL PROVIDE A LOW VOLTAGE CABLE HOMERUN TO NEW ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN IT ROOM #207A ON SECOND FLOOR FOR OVERHEAD DOOR CONTACT SWITCH. PROVIDE CABLE AS DIRECTED BY WTC DOOR ACCESS CONROL VENDOR.
49. PROVIDE ADDITIONAL CAT6A PATCH PANELS AS REQUIRED IN EXISTING 'NOC' EQUIPMENT RACKS. COORDINATE WITH WTC IT DEPARTMENT.

NORTH

1 ELECTRICAL LOW VOLTAGE PLAN - FIRST FLOOR

1/8" = 1'-0"

2 PHOTO #1

NO SCALE

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:

galileo CONSULTING GROUP
2920 EAST AVENUE SOUTH SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9106 FAX: (608) 787-8995
E-MAIL: PPopowich@galileo-group.us

Project Title: WESTERN TECHNICAL COLLEGE INNOVATION CENTER

Project Location: 405 8TH STREET NORTH LA CROSSE, WI

Sheet Title: ELECTRICAL LOW VOLTAGE PLAN - FIRST FLOOR

HSR Project Number: 24003

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Drawn By: PCP

Key Plan:

Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: VARIES

Last Update: 8/16/2024 8:39:50 AM

E301

GENERAL LOW VOLTAGE NOTES:

A. COLOR CODING SHALL BE AS FOLLOWS:
  1. NETWORKING (DATA) = ORANGE DATA JACKS WITH BLUE CAT6A CABLES.
  2. IP PHONE = ORANGE DATA JACKS WITH BLUE CAT6A CABLES
  3. AUDIO/VIDEO (A/V) = GREEN DATA JACKS WITH GREEN CATE 6A CABLE
  4. SECURITY CAMERAS = WHITE JACKS WITH WHITE CAT6A CABLE
  5. ELECTRONIC DOOR ACCESS SYSTEM = YELLOW MULTI-ELEMENT SMART CABLE
  6. HVAC CONTROLS = PURPLE JACKS WITH PURPLE CAT6A CABLES.
  7. NETWORKING (DATA) FOR STUDENTS = GRAY DATA JACKS WITH GRAY CAT6A CABLES.
  8. NERWORKING DATA) FOR NOC = BLUE DATA JACKS WITH BLUE CAT6A CABLES.
  9. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ‘J’ HOOKS AND CONDUIT SLEEVES THROUGH WALLS FOR LOW VOLTAGE CABLE ROUTING AS REQUIRED.

B. **ALL** LOW VOLTAGE WIRING SHALL BE ‘PLENUM’ RATED.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ‘J-HOOK’ TYPE LOW VOLTAGE CABLE WIRING SUPPORT ON 4’-0” CENTERS ABOVE SUSPENDED ACOUSTIC CEILINGS BETWEEN CONDUIT WALL STUBS AND CABLE TRAY, ETC. ALL LOW VOLTAGE WIRING SHALL BE INDEPENDANTLY SUPPORTED SEPARATE FROM GRID TYPE CEILINGS, NO EXCEPTIONS.

D. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LOW VOLTAGE WIRING, DATA JACKS, ETC. FOR A COMPLETE SYSTEM FOR THIS PROJECT.

KEYED LOW VOLTAGE PLAN NOTES:

1. APPROXIMATE LOCATION OF NEW WIRELESS ACCESS POINT PROVIDED AND INSTALLED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE (1) NETWORK CAT6A CABLES BETWEEN WIRELESS ACCESS POINT AND EXISTING IT NETWORK EQUIPMENT RACK #3 LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS. PROVIDE JUNCTION BOXES AS REQUIRED IN CEILING OR WALL. COORDINATE WITH WTC IT DEPARTMENT.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND EXISTING IT NETWORK EQUIPMENT RACK #3 LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT FOR WALL-MOUNTED MONITOR AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾” EMT CONDUIT TO ‘J’ HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER’S STATION. PROVIDE FIVE (5) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT ROOM RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER’S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR OVERHEAD PROJECTOR **OR** WALL-MONITOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN OVERHEAD PROJECTOR **OR** WAL-MOUNT MONITOR JUNCTION BOX AND TEACHER’S STATION JUNCTION BOX. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED MOUNTED FLUSH IN CEILING **OR** WALL FOR DATA/AV WIRING.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **# 014F** IN BASEMENT AND TERMINATE BOTH ENDS.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND ‘STUDENT’ IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** AND TERMINATE BOTH ENDS.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND ‘STUDENT’ IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** FOR WALL-MOUNTED MONITOR AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾” EMT CONDUIT TO ‘J’ HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A EIGHT (8) PORT DATA JACK. PROVIDE FOUR (4) NETWORK CAT6A CABLES BETWEEN EIGHT-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS. PROVIDE FOUR (4) NETWORK CAT6A CABLES BETWEEN EIGHT-PORT DATA JACK AND ‘STUDENT’ IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** AND TERMINATE BOTH ENDS.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE THREE (3) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT AND TERMINATE BOTH ENDS.
11. PROVIDE A COMBINATION POWER/COMMUNICATION POKE THRU WIREMOLD JUNCTION BOX SIZED AS REQUIRED FOR DUPLEX RECEPTACLE AND THREE-PORT DATA JACK.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR WALL-MONITOR. PROVIDE ONE (1) NETWORK CAT 6A CABLE TO IT EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN WALL-MOUNT MONITOR JUNCTION BOX AND TEACHER’S STATION JUNCTION BOX IN ROBOTICS **#110**. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED FOR DATA/AV WIRING.
13. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN ELEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER’S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE SIX (6) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER’S STATION DATA/AV JACKS AND THREE (3) WALL-MONITOR JUNCTION BOXS. PROVIDE ONE (1) CAT6A CABLE TO ‘STUDENT’ IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A**. TERMINATE BOTH ENDS OF ALL CABLES. PROVIDE JUNCTION BOXES AND RACEWAYS SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER’S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER’S STATION DATA/AV JACKS AND WALL-MONITOR JUNCTION BOX. PROVIDE ONE (1) CAT6A CABLE TO ‘STUDENT’ IT EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A**. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
15. PROVIDE A HUBBELL CATEGORY 6 DATA CORD REEL. REFER TO DETAIL **2/E402**. NO EQUALS ACCEPTED. PROVIDE ONE CAT6A CABLE TO ‘STUDENT’ IT EQUIPMENT RACK LOCATED IN STORAGE ROOM #112A AND TERMINATE BOTH ENDS OF CABLE. SET CORD REEL LENGTH TO REACH FLOOR.
16. PROVIDE WIREMOLD 6000 SERIES SURFACE RACEWAY. PROVIDE SEPARATE FROM POWER.
17. ELECTRICAL CONTRACTOR SHALL INSTALL A SECURITY IP CCTV CAMERA WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM #014F IN BASEMENT. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE A ‘SMART CABLE’ HOMERUN TO NEW ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN IT ROOM #207A ON SECOND FLOOR. SMART CABLE SHALL BE BELDEN, MODEL #658AFJ OR EQUAL, 16 CONDUCTOR, 4 ELEMENT, ACESS CONTROL CABLE, 18-04 + 22-3P + 22-02 + 22-04 PLENUM YELLOW COLOR. REFER TO ELECTRONIC DOOR ACCESS CONROL DETAIL **4/E300**.
19. INSTALL CARD READER ON EXTERIOR METAL PEDESTAL. REFER TO PHOTO **#1/E301** FOR EXAMPLE.
20. EXTERIOR METAL POST PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
21. LOCATION OF LAP-TOP COMPUTER CHARGING CART.
22. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NEW ‘STUDENT’ FLOOR MOUNTED 2-POST NETWORK EQUIPMENT RACK. REFER TO DETAIL **3/E402**.
23. ELECTRICAL CONTRACTOR SHALL PROVIDE A 12 STRAND, SINGLE-MODE FIBER OPTIC CABLE FEED FOR NEW ‘STUDENT’ IT EQUIPMENT RACK. FEED FROM COMPUTER ROOM #014F. REFER TO FIBER OPTIC RISER DIAGRAM **2/E401**.
24. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN THREE-PORT DATA JACK AND ‘NOC’ IT NETWORK EQUIPMENT RACK LOCATED IN NETWORK CENTER **215**. TERMINATE BOTH ENDS OF CABLE.
25. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾” EMT CONDUIT TO ‘J’ HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
26. APPROXIMATE LOCATION OF NEW WIRELESS ACCESS POINT PROVIDED AND INSTALLED BY WTC IT DEPARTMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN WIRELESS ACCESS POINT AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE JUNCTION BOXES AS REQUIRED IN CEILING OR WALL. COORDINATE WITH WTC IT DEPARTMENT.
27. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS.
28. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A ONE (1) PORT DATA JACK. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN ONE-PORT DATA JACK AND EXISTING ‘NOC’ IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER CENTER **215** AND TERMINATE BOTH ENDS. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUDRING. STUB ONE ¾” EMT CONDUIT TO ‘J’ HOOKS ABOVE SUSPENDED CEILING. VERIFY MOUNTING HEIGHT OF DATA JACKS WITH WTC IT DEPARTMENT PRIOR TO ROUGH-IN.
29. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE THREE (3) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS.
30. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR (4) PORT DATA JACK. PROVIDE FOUR (4) NETWORK CAT6A CABLES BETWEEN FOUR-PORT DATA JACK AND EXISTING ‘NOC’ IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER CENTER **215** AND TERMINATE BOTH ENDS.
31. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND EXISTING ‘NOC’ IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER NETWORK CENTER **215** AND TERMINATE BOTH ENDS.
32. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SEVEN-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER’S STATION. PROVIDE FIVE (5) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER’S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
33. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A EIGHT-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER’S STATION. PROVIDE FIVE (5) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER’S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE ONE (1) NETWORK CAT6A CABLE TO ‘NOC’ IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER NETWORK CENTER **215.** PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
34. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FOUR-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR OVERHEAD PROJECTOR **OR** WALL-MONITOR. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT EQUIPMENT RACK LOCATED IN IT ROOM **207A**. PROVIDE TWO (2) SHIELDED CAT6A A/V CABLES BETWEEN OVERHEAD PROJECTOR **OR** WAL-MOUNT MONITOR JUNCTION BOX AND TEACHER’S STATION JUNCTION BOX. PROVIDE A DOUBLE GANG JUNCTION BOX AS REQUIRED MOUNTED FLUSH IN CEILING **OR** WALL FOR DATA/AV WIRING.
35. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A FIVE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR POD STATION. PROVIDE TWO (2) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE ONE (1) NETWORK CAT6A CABLE TO ‘STUDENT’ IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER/LAB **208**. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN POD STATION DATA/AV JACKS AND IT EQUIPMENT RACK LOCATED IN IT ROOM **207A**. TERMINATE BOTH ENDS OF EACH CABLE. PROVIDE JUNCTION BOXES AND RACEWAYS SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
36. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A THREE (3) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN THREE-PORT DATA JACK AND IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A** AND TERMINATE BOTH ENDS. PROVIDE ONE (1) NETWORK CAT6A CABLE BETWEEN THREE-PORT DATA JACK AND WALL-MOUNTED ‘STUDENT’ IT EQUIPMENT RACK LOCATED IN THIS ROOM. TERMINATE BOTH ENDS OF CABLE.
37. PROVIDE A 18U WALL-MOUNTED IT EQUIPMENT RACK WITH LOCKABLE COVER. REFER TO DETAIL **7/E402**.
38. EXISTING NETWORK EQUIPMENT RACK TO REMAIN. IT WILL BE REQURED FOR THE ELECTRICAL CONTRACTOR TO UPGRADE WITH CAT6 AND CAT6A PATCH PANELS AS REQUIRED FOR REMODEL PROJECT.
39. PROVIDE ONE (1) 12 STRAND SINGLE MODE FIBER OPTIC FEED TO NEW EQUIPMENT IT RACK LOCATED IN STORAGE ROOM 112A. PROVIDE A ONE (1) 12 STRAND SINGLE MODE FIBER OPTIC CABLE FEED TO NEW IT EQUIPMENT RACKS LOCATED IN IT ROOM 207A. REFER TO GROUNDING AND FIBER OPTIC RISER DIAGRAM **2/E401**.
40. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) NETWORK CAT6A CABLES BETWEEN ELEVATOR CONTROLLER AND EXISTING IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM 014F AND TERMINATE BOTH ENDS.
41. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A TWO (2) PORT DATA JACK. PROVIDE TWO (2) NETWORK CAT6A CABLES BETWEEN TWO-PORT DATA JACK AND ‘STUDENT’ IT NETWORK EQUIPMENT RACK LOCATED IN STORAGE ROOM **#112A** AND TERMINATE BOTH ENDS.
42. ELECTRICAL CONTRACTOR SHALL INSTALL A SECURITY IP CCTV CAMERA WITH BACKBOX PROVIDED BY WTC IT DEPARTMENT IN THIS LOCATION. PROVIDE ONE (1) CAT6A CABLE TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** OR IT ROOM **#207A**. COORDINATE MOUNTING LOCATION AND MOUNTING HEIGHT WITH WTC IT DEPARTMENT.
43. IN THIS ROOM ALL LOW VOLTAGE CABLES SHALL BE SHIELDED TO AVOID INTERFERENCE TO ROBOTIC EQUIPMENT.
44. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A NINE-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER’S STATION. PROVIDE FOUR (4) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN IT ROOM **207A.** PROVIDE FIVE (5) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER’S STATION DATA/AV JACKS AND IT EQUIPMENT RACK LOCATED IN IT ROOM 207A. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
45. PROVIDE 4”DEEP X 12” WIRE BASKET CABLE TRAY AS SPECIFIED.
46. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A EIGHT-PORT COMBINATION DATA/AV JACKS AT THIS APPROXIMATE LOCATION FOR TEACHER’S STATION. PROVIDE SIX (6) NETWORK CAT 6A CABLES TO IT NETWORK EQUIPMENT RACK LOCATED IN COMPUTER ROOM **#014F** IN BASEMENT. PROVIDE TWO (2) SHIELDED CAT 6A A/V CABLES BETWEEN TEACHER’S STATION DATA/AV JACKS AND OVERHEAD PROJECTOR **OR** WALL-MONITOR JUNCTION BOX. PROVIDE SURFACE WIREMOLD JUNCTION BOX AND RACEWAY SIZED AS REQUIRED AND INSTALL ABOVE SUSPENDED CEILING FOR CABLE ROUTING.
47. ELECTRICAL CONTRACTOR SHALL INSTALL ONE (1) ALERTIS SYSTEM BEACON PROVIDED BY WTC FACILITY DEPARTMENT OR WTC IT DEPARTMENT. PROVIDE ONE (1) CAT6A CABLE TO IT EQUIPMENT RACK LOCATED IN BASEMENT COMPUTER ROOM 014F AND TERMINATE BOTH ENDS.
48. ELECTRICAL CONTRACTOR SHALL PROVIDE A LOW VOLTAGE CABLE HOMERUN TO NEW ELECTRONIC DOOR ACCESS CONTROL PANEL LOCATED IN IT ROOM #207A ON SECOND FLOOR FOR OVERHEAD DOOR CONTACT SWITCH. PROVIDE CABLE AS DIRECTED BY WTC DOOR ACCESS CONROL VENDOR.
49. PROVIDE ADDITIONAL CAT6A PATCH PANELS AS REQUIRED IN EXISTING ‘NOC’ EQUIPMENT RACKS. COORDINATE WITH WTC IT DEPARTMENT.

1 ELECTRICAL LOW VOLTAGE PLAN - SECOND FLOOR

1/8" = 1'-0"

2 EN. PLAN - IT RM 207A

1/4" = 1'-0"

KEYED IT ROOM PLAN 207A NOTES:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL LADDER TYPE TRAY AS SPECIFIED. PROVIDE WATERFALL TRANSITION AS REQUIRED TO EQUIPMENT RACKS.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) TWO-POST EQUIPMENT RACKS PER DETAIL **4/E402**. COORDINATE WITH WTC IT DEPARTMENT.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE A DOUBLE DUPLEX RECEPTACLE FOR EQUIPMENT RACK. REFER TO DETAIL **4/E402**.
4. LOCATION OF ELECTRONIC DOOR ACCESS CONTROL PANEL PROVIDED AND INSTALLED BY WTC DOOR ACCESS CONTROL VENDOR. ELECTRICAL CONTRACTOR SHALL ROUGH-IN DOOR ACCESS CONTROL CABLE TO THIS LOCATION. REFER TO DETAIL **6/E402**.
5. PROVIDE A GROUNDING BAR AND MAKE CONNECTION TO IT EQUIPMENT RACK AS NOTED ON GROUNDING DIAGRAM **2/E401**.
6. PROVIDE TWO (2) 4” PVC SCHEDULE 80 SLEEVES THROUGH FLOOR, PROVIDE PLASTIC BUSHING ON EACH END OF SLEEVES. EXTEND CONDUIT SLEEVES VERTICAL ON WALL TO LADDER RACK.
7. PROVIDE TWO (2) 4” SCHEDULE 40 PVC CONDUIT SLEEVES THROUGH BLOCK WALL, PROVIDE PLASTIC BUSHINGS ON EACH END OF CONDUIT SLEEVES. SECURELY ANCHOR SLEEVES.
8. PROVIDE INTERCONNECTING WIRING BETWEEN MINI SPLIT SYSTEM INTERIOR UNIT AND EXTERIOR UNIT LOCATED ON THE ROOF. COORDINATE WITH HVAC CONTRACTOR.

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:
galileo CONSULTING GROUP
2920 EAST AVENUE SOUTH SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9106 FAX: (608) 787-8995
E-MAIL: PPopowich@galileo-group.us

Project Title: **WESTERN TECHNICAL COLLEGE INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **ELECTRICAL LOW VOLTAGE PLAN - SECOND FLOOR**

HSR Project Number:	24003
Project Date:	AUGUST 2024
Drawn By:	PCP
Key Plan:	

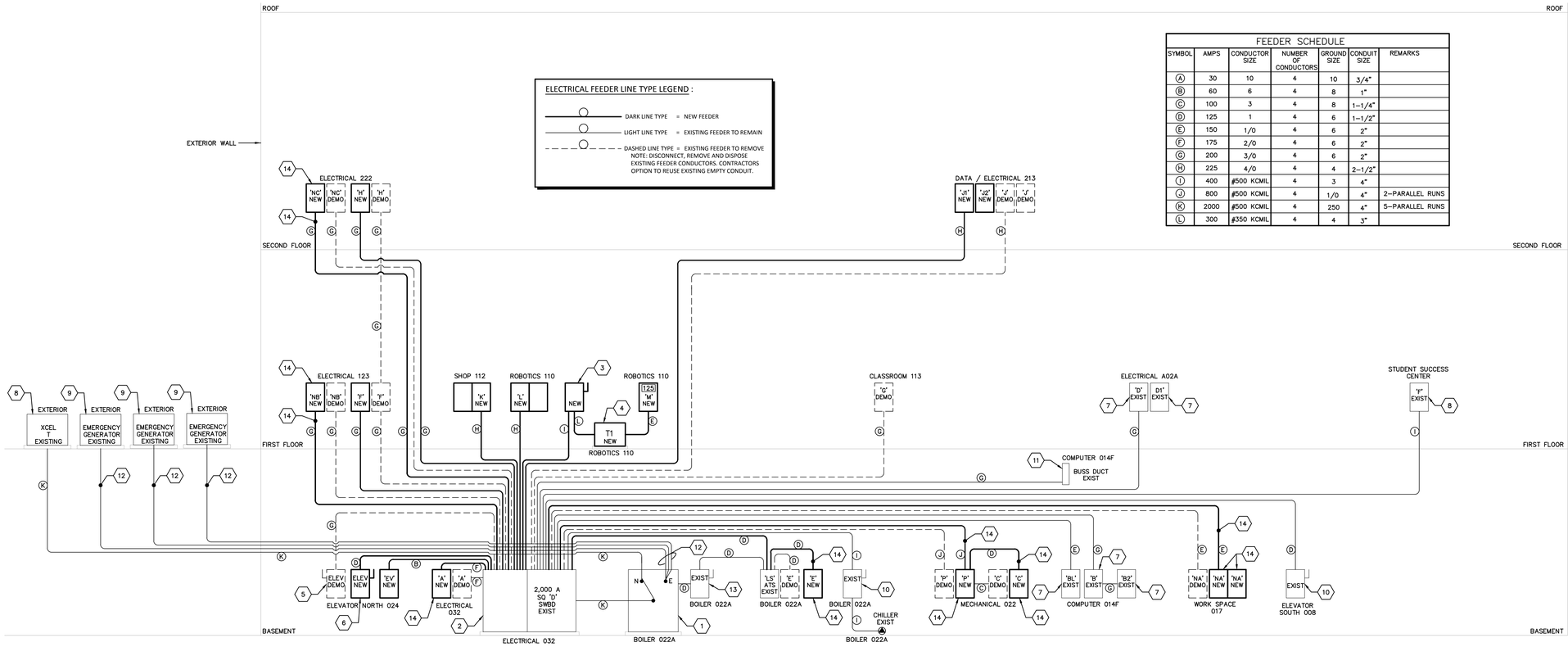
Revisions:

No.	Description	Date
2	ADDENDUM #2	08-14-24

Graphic Scale: VARIES

Last Update: 8/16/2024 8:19:44 AM

E302



FEEDER SCHEDULE						
SYMBOL	AMPS	CONDUCTOR SIZE	NUMBER OF CONDUCTORS	GROUND SIZE	CONDUIT SIZE	REMARKS
A	30	10	4	10	3/4"	
B	60	6	4	8	1"	
C	100	3	4	8	1-1/4"	
D	125	1	4	6	1-1/2"	
E	150	1/0	4	6	2"	
F	175	2/0	4	6	2"	
G	200	3/0	4	6	2"	
H	225	4/0	4	4	2-1/2"	
I	400	#500 KCMIL	4	3	4"	
J	800	#500 KCMIL	4	1/0	4"	2-PARALLEL RUNS
K	2000	#500 KCMIL	4	250	4"	5-PARALLEL RUNS
L	300	#350 KCMIL	4	4	3"	

ELECTRIC RISER DIAGRAM NOTES:

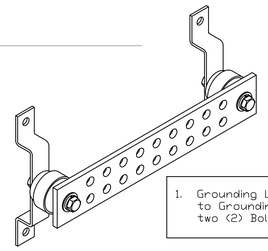
GENERAL NOTE:

A. ELECTRICAL CONTRACTOR SHALL PROVIDE A SHORT CIRCUIT/ARC FAULT STUDY FOR ENTIRE BUSINESS EDUCATION (BE) BUILDING. IT WILL BE REQUIRED TO FIELD VERIFY FEEDER CONDUCTOR SIZES, CIRCUIT BREAKERS, LENGTHS, ETC. THIS ELECTRIC RISER DIAGRAM WAS PROVIDED BASED UPON CASUAL FIELD VERIFICATION BY ELECTRICAL DESIGNER AND MAY NOT CONTAIN THE ENTIRE EXISTING ELECTRICAL SYSTEM.

KEYED NOTES:

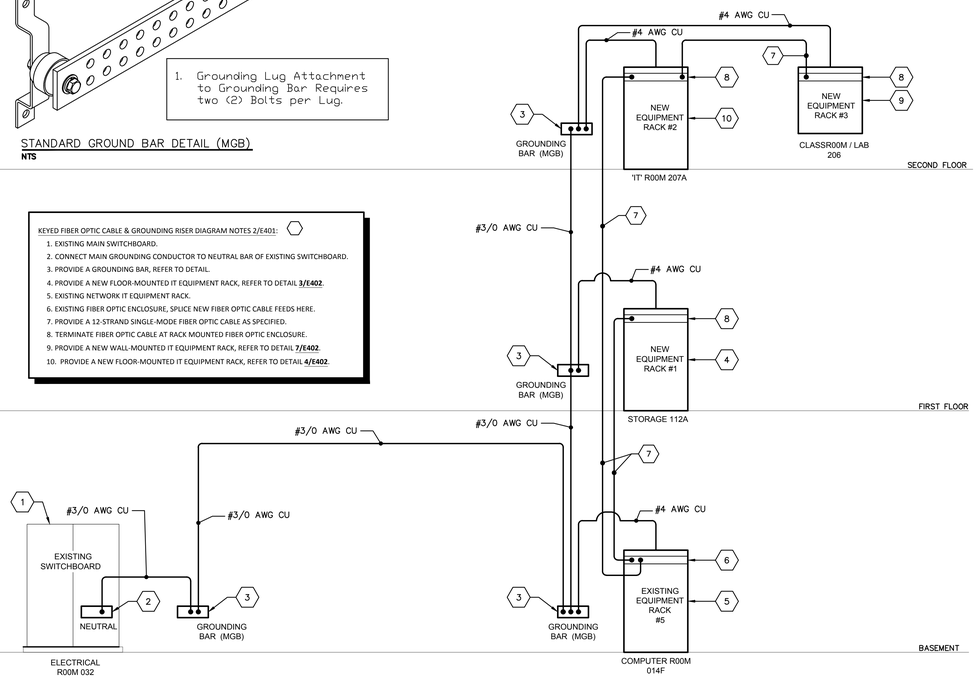
1. EXISTING 2,000 AMP., 120/208VAC, 3-PHASE, 4-WIRE 'ASCO' SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH TO REMAIN AS IS. PLEASE NOTE ENTIRE BUILDING IS CONNECTED TO THREE (3) EMERGENCY GENERATORS.
2. EXISTING SQUARE 'D' QED 2,000 AMP., 120/208VAC, 3-PHASE, 4-WIRE SWITCHBOARD TO REMAIN AS IS. PLEASE NOTE SWITCHBOARD IS RATED FOR 100,000 AVAILABLE FAULT CURRENT. IT WILL BE REQUIRED TO PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED FOR THIS PROJECT.
3. PROVIDE A 400 AMP., 3-POLE, HEAVY DUTY, NEMA 1, FUSIBLE DISCONNECT SWITCH. PROVIDE 300 AMP FUSES.
4. PROVIDE A 112.5KVA 'STEP-UP' TRANSFORMER PRIMARY VOLTAGE SHALL BE 120/208VAC, Y, 3-PHASE, 4-WIRE AND THE SECONDARY SHALL BE 480/277 VAC, 3-PHASE, 4-WIRE.
5. DISCONNECT, REMOVE AND DISPOSE OF EXISTING 'NORTH' ELEVATOR DISCONNECT. PLEASE NOTE, ELEVATOR SHALL BE REPLACED WITH NEW.
6. PROVIDE A 125 AMP., 3-POLE, HEAVY DUTY, 208VAC, 3-PHASE, DISCONNECT WITH AUXILIARY CONTACTS AND SHUNT-TRIP FOR ELEVATOR CONTROLLER. PROVIDE 110 AMP. FUSES, VERIFY FUSE SIZE WITH ELEVATOR INSTALLER. PROVIDEA 'BUSSMAN' ALL-IN-ONE ELEVATOR DISCONNECT. PROVIDE POWER MODULE SWITCH AS REQUIRED. MODEL #PS-2-T20-R1-K-G-N2-B-F3-TYPE1. VERIFY CONTROL VOLTAGES WITH ELEVATOR INSTALLER AND FIRE ALARM INSTALLER.
7. EXISTING SQUARE 'D' PANELBOARDS TO REMAIN AS IS.
8. EXISTING 400 AMP., SQUARE 'D', 120/208 VAC, 3-PHASE, 4-WIRE PANELBOARD TO REMAIN AS IS, NO WORK REQUIRED. PROVIDED FOR INFORMATION ONLY. THIS PANELBOARD IS LOCATED ON THE FIRST FLOOR, NORTH END OF STUDENT SUCCESS BUILDING.
9. EXISTING 'GENERAC' EMERGENCY GENERATOR TO REMAIN AS IS, NO WORK REQUIRED. PROVIDED FOR INFORMATION ONLY.
10. EXISTING DISCONNECT TO REMAIN AS IS FOR EXISTING MOTOR/EQUIPMENT, NO WORK REQUIRED.
11. EXISTING BUSS DUCT TO REMAIN AS IS, NO WORK REQUIRED.
12. EXISTING FEEDER TO REMAIN AS IS, NO WORK REQUIRED. IT WILL BE REQUIRED TO FIELD VERIFY QUANTITY, SIZE, LENGTH, ETC. FOR ARC FAULT/SHORT CIRCUIT STUDY.
13. EXISTING 200 AMP., 3-POLE, 208VAC, FUSIBLE DISCONNECT TO REMAIN AS IS. THIS DISCONNECT FEEDS 'LIFE-SAFETY' BRANCH AUTOMATIC TRANSFER SWITCH.
14. THIS PANELBOARD AND ASSOCIATED FEEDER SHALL BE INCLUDED WITH ALTERNATE BID.

1 E401 ELECTRICAL RISER DIAGRAM
N.T.S. 2402-E-RISER DIAGRAM



1. Grounding Lug Attachment to Grounding Bar Requires two (2) Bolts per Lug.

STANDARD GROUND BAR DETAIL (MGB)
NTS



KEYED FIBER OPTIC CABLE & GROUNDING RISER DIAGRAM NOTES 2/E401:

1. EXISTING MAIN SWITCHBOARD.
2. CONNECT MAIN GROUNDING CONDUCTOR TO NEUTRAL BAR OF EXISTING SWITCHBOARD.
3. PROVIDE A GROUNDING BAR, REFER TO DETAIL.
4. PROVIDE A NEW FLOOR-MOUNTED IT EQUIPMENT RACK, REFER TO DETAIL **3/E402**.
5. EXISTING NETWORK IT EQUIPMENT RACK.
6. EXISTING FIBER OPTIC ENCLOSURE, SPLICE NEW FIBER OPTIC CABLE FEEDS HERE.
7. PROVIDE A 12-STRAND SINGLE-MODE FIBER OPTIC CABLE AS SPECIFIED.
8. TERMINATE FIBER OPTIC CABLE AT RACK MOUNTED FIBER OPTIC ENCLOSURE.
9. PROVIDE A NEW WALL-MOUNTED IT EQUIPMENT RACK, REFER TO DETAIL **7/E402**.
10. PROVIDE A NEW FLOOR-MOUNTED IT EQUIPMENT RACK, REFER TO DETAIL **4/E402**.

2 E401 FIBER OPTIC & GROUNDING RISER DIAGRAM
N.T.S. 2402-E-FIBER OPTIC RISER DIAGRAM

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:

galileo CONSULTING GROUP
2929 EAST AVENUE SOUTH, SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9304 FAX: (608) 787-4995
E-MAIL: PPopowski@galileo-group.net

Project Title: **WESTERN TECHNICAL COLLEGE INNOVATION CENTER**

Project Location: **405 8TH STREET NORTH LA CROSSE, WI**

Sheet Title: **ELECTRICAL RISERS**

HSR Project Number: **24003**

Project Date: **AUGUST 2024**

Drawn By: **PLP**

Key Plan:

Revisions:

No.	Description	Date
1	ADDENDUM #2	8-16-2024

Graphic Scale: **VARIES**

Last Update: **7/24/2024**

E401

POWER TRANSFORMERS

TRANSFORMER IDENTIFICATION	NOMINAL RATING (Kva)	PRIMARY CHARACTERISTICS	PRIMARY CONNECTION	SECONDARY CHARACTERISTICS	SECONDARY CONNECTION	TP1 Compliant?	DESCRIPTION	MOUNTING	REMARKS
T1	112.5	120/208VAC	Y (4-WIRE)	480/277VAC (Y)	Wye (4 Wire)	Yes	Dry type - Energy Efficient	Floor-mount Interior	1, 2

REMARKS:
1 Nema 1.
2 Step up transformer.

MOTOR & EQUIPMENT SCHEDULE

EQUIPMENT REFERENCE I.D.	EQUIPMENT DESCRIPTION	EQUIPMENT LOCATION: Room No.	Room Name	Elevation	MOTOR OR EQUIPMENT REQUIREMENTS AND CHARACTERISTICS: Motor HP	Equipment Watts	VOLT	PH.	FLA	MCA	MOP	MOTOR STARTERS: Starter Type	Provided By	Installed By	Starter Size	DISCONNECT SWITCHES: Disconnect Type	Provided By	Installed By	NEMA Enclo.	Fuse Size	Lockable?	CONTROL WIRING BY: MC	EC	Branch Circuit or Feeder: N.C.	Conductor Size	Conduit Min. Size	Ground Size	REMARKS
AC-1	Ductless Air Conditioner	207A	IT Room	Wall		208	208	1	1.0	1.0	20.0	None				Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	2,3
BLR-1	Gas Fired Boiler - 1	022A	Boiler Room	Floor		1,560	120	1	13.0	13.0	20.0	None				Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	2, 3
BLR-2	Gas Fired Boiler - 2	022A	Boiler Room	Floor		1,560	120	1	13.0	13.0	20.0	None				Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	2, 3
BCP-1	Boiler Circulating Pump - 1	022A	Boiler Room	Floor		2,496	208	1	12.0	12.0	20.0	None				Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	2, 3
BCP-2	Boiler Circulating Pump - 2	022A	Boiler Room	Floor		2,496	208	1	12.0	12.0	20.0	None				Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	2, 3
CU-AC-1	Condensing Unit with AC-1	Roof	Roof	Roof		2,288	208	1	11.0	11.0	20.0	None				Manual	EC	EC	3R	N/A				2	12	1/2"	12	2,3
CUH-1	Cabinet Unit Heater - 1	102	Vestibule	Ceiling		240	120	1	2.0	2.0	20.0	None				Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	1,3
CUH-2	Cabinet Unit Heater - 2	101	Vestibule	Ceiling		240	120	1	2.0	2.0	20.0	None				Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	1,3
DF-1	Destratification Fan - 1	102	Vestibule	Ceiling		60	120	1	0.5	0.5	20.0	None				Cord and Plug	MC	MC	1	N/A	No		X	2	12	1/2"	12	4
DF-2	Destratification Fan - 2	101	Vestibule	Ceiling		60	120	1	0.5	0.5	20.0	None				Cord and Plug	MC	MC	1	N/A	No		X	2	12	1/2"	12	4
Elevator	Elevator Replacement	024	Elev. Equipmt Room	Floor		28,152	208	3	78.2	110	110.0	Included	Included	Included	Included	Manual	EC	EC	1	TBD	Yes	Include		3	2	1-1/4"	6	7
HCP-1	Circulating Pump-1	022	Mechanical	Floor	.75	1,656	120	1	13.8	13.8	20.0	None				Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	2, 3
HWP-1	Hot Water Circulating Pump-1	022A	Boiler Room	Floor	7.5	9,108	208	3	25.3	25.3	50.0	VFD	MC	EC	7.5HP	w/VFD	MC	EC	1	N/A	Yes	X		3	6	1"	10	2,6
HWP-2	Hot Water Circulating Pump-1	022A	Boiler Room	Floor	7.5	9,108	208	3	25.3	25.3	50.0	VFD	MC	EC	7.5HP	w/VFD	MC	EC	1	N/A	Yes	X		3	6	1"	10	2,6
RX-1	Exhaust Fan - 1	209	Toilet	Ceiling	1/6	528	120	1	4.4	4.4	20.0	None				Manual	EC	EC	1	N/A	No		X	2	12	1/2"	12	1, 5
IVRF-1	Interior Mini Split Sysytem	102	Vestibule	Wall		960	208	1	8.0	8.0	20.0	None				Manual Toggle	EC	EC	1	N/A	No	X		2	12	1/2"	12	1, 3
IVRF-2	Interior Mini Split Sysytem	101	Vestibule	Wall		960	208	1	8.0	8.0	20.0	None				Manual Toggle	EC	EC	1	N/A	No	X		2	12	1/2"	12	1, 3
OVRF-1	Outdoor Mini Split Condenser System	102	Vestibule	Roof		10440	208	3	29.0	29.0	45.0	None				Manual	EC	EC	3R	N/A	Yes	X		3	12	1/2"	12	2, 3
OVRF-2	Outdoor Mini Split Condenser System	101	Vestibule	Roof		10440	208	3	29.0	29.0	45.0	None				Manual	EC	EC	3R	N/A	Yes	X		3	12	1/2"	12	2, 3
UH-1	Gas Fired Unit Heater	110	Robotics	Ceiling		120	120	1	1.0	1.0	20.0	None				Manual	EC	EC	1	N/A	Yes	X		2	12	1/2"	12	1, 3

REMARKS:
1. Make connection to motor/equipment with flexible metal conduit.
2. Make connection to motor/equipment with liquid-tight, flexible metal conduit.
3. Provide and install a 20 amp, SPST or DPST, manual motor control switch without thermal overload protection. Motor control switch shall be mounted in a NEMA 1 or NEMA 3R enclosure, as noted, Mount disconnect on structure in close proximity to motor or equipment, or directly on equipment.
4. Provide and install a power receptacle to receive a plug and cord connection. Verify preferred location with the appropriate equipment supplier. Nema type shall match cord on unit.
5. Interlock with lighting fixtures in the room.
6. VFD provided by Mechanical Contractor, installed by Electrical Contractor.
7. Coordinate with Elevator Contractor. Provide shunt-trip breaker as required..

2 Switchboard Schedule - Existing Square 'D' QED

Location:	ELECTRICAL ROOM #032	A.I.C. Rating:	100K
Enclosure:	NEMA 1	Mains Type:	CKT. BRK.
Volts:	120/208	Mains Rating:	2,000
Phase:	THREE	MCB Rating:	2,000
Wires:	FOUR		

NO.	Circuit Description	# of Poles	Circuit Breaker Size
1	TVSS	3	30 (EXSTG)
2	Panelboard 'EV'	3	60 (NEW)
3	South Elevator	3	125 (EXSTG)
4	North Elevator	3	125 (NEW)
5	Panelboard 'E'	3	125 (EXSTG)
6	Panelboard 'BL' (Lighting)	3	150 (EXSTG)
7	Panelboard 'NA'	3	150 (EXSTG)
8	Panelboard 'A'	3	175 (EXSTG)
9	Panelboard 'B' & 'B1'	3	200 (EXSTG)
10	Panelboard 'D' & 'D1'	3	200 (EXSTG)
11	Panelboard 'F'	3	200 (EXSTG)
12	Spare (Was Panelboard 'G')	3	200 (EXSTG)
13	Panelboard 'H'	3	200 (EXSTG)
14	Buss Duct in Computer Room	3	200 (EXSTG)
15	Panelboard 'NB'	3	200 (EXSTG)
16	Panelboard 'NC'	3	200 (EXSTG)
17	Panelboard 'J'	3	225 (EXSTG)
18	Panelboard 'K'	3	225 (NEW)
19	Panelboard 'L'	3	225 (NEW)
20	Chiller	3	400 (EXSTG)
21	Disconnect for Transformer 'T1'	3	400 (NEW)
22	Panelboard 'F' (Student Success Center)	3	400 (EXSTG)
23	Panelboard 'P'	3	800 (EXSTG)
24	Spare	3	150 (EXSTG)
25	Spare	3	225 (EXSTG)

NOTES:
1.) Provide Circuit Breakers where labeled as 'NEW'
2.) Provide adjustable breakers for 400 amps or larger.

Panel- 'EV', 100 AMP., 120/208VAC, 3-Phase, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	RECEPTACLE	20/1	0.18	0.20	20/1	LIGHTING - SHAFT	2
3	PIT RECEPTACLE	20/1	0.18	0.50	20/1	CAR LIGHTS	4
5	EQUIPMENT ROOM LIGHTS	20/1	0.10	1.20	20/1	SUMP PUMP RECEPTACLE	6
7	SPARE	20/1			20/1	SPARE	8
9	SPARE	20/1			20/1	SPARE	10
11	SPARE	20/1			20/1	SPARE	12
13	SPARE	20/1			20/1	SPARE	14
15	SPARE	20/1			20/1	SPARE	16

LIGHTING (KVA):	0.7
RECEPTACLES (KVA):	0.36
MOTOR/EQUIPMENT (KVA):	1.6
TOTAL (KVA):	2.66
TOTAL AMP. :	7.4
(DIVERSI TOTAL (KVA):	

Notes:
1 Provide a 16 space panelboard.

2 Panel- 'F', NEW SQUARE 'D', 225 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	XSTG TVSS	30/3			20/1	EXISTING	2
3	"	30/3			20/1	EXISTING	4
5	"	30/3			20/1	EXISTING	6
7	EXISTING	20/1			20/1	EXISTING	8
9	EXISTING	20/1			20/1	EXISTING	10
11	EXISTING	20/1			20/1	EXISTING	12
13	EXISTING	20/1			20/1	EXISTING	14
15	EXISTING	20/1			20/1	EXISTING	16
17	EXISTING	20/1			20/1	EXISTING	18
19	EXISTING	20/1			20/1	EXISTING	20
21	EXISTING	20/1			20/1	EXISTING	22
23	EXISTING	20/1			20/1	EXISTING	24
25	EXISTING	20/1			20/1	EXISTING	26
27	EXISTING	20/1		0.36	20/1	RECEPTACLE	28
29	RECEPTACLE	20/1	0.36	0.72	20/1	RECEPTACLE	30
31	RECEPTACLE	20/1	1.10	0.54	20/1	RECEPTACLE	32
33	RECEPTACLE	20/1	0.54	1.10	20/1	RECEPTACLE	34
35	RECEPTACLE	20/1	0.72	0.50	20/1	RECEPTACLE	36
37	RECEPTACLE	20/1	0.72	0.90	20/2	MOTOR (IVRF-1)	38
39	EXTERIOR SIGN	20/1	1.00	0.90	20/2	"	40
41	RECEPTACLE & CUH-1	20/1	0.50	0.50	20/2	DOOR ASSIST MOTOR	42
43	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	44
45	RECEPTACLE	20/1	0.36	0.72	20/1	RECEPTACLE	46
47	RECEPTACLE	20/1	0.72	0.72	20/1	RECEPTACLE	48
49	RECEPTACLE	20/1	0.72	0.90	20/1	RECEPTACLE	50
51	RECEPTACLE	20/1	0.72	0.54	20/1	RECEPTACLE	52
53	RECEPTACLE	20/1	0.54	0.72	20/1	RECEPTACLE	54
55	208V RECEPTACLE	20/3	0.50	0.50	20/3	208V RECEPTACLE	56
57	"	20/3	0.50	0.50	20/3	"	58
59	"	20/3	0.50	0.50	20/3	"	60
61	208V RECEPTACLE	20/3	0.50	0.50	20/3	208V RECEPTACLE	62
63	"	20/3	0.50	0.50	20/3	"	64
65	"	20/3	0.50	0.50	20/3	"	66
67	208V RECEPTACLE	20/3	0.50	0.50	20/3	208V RECEPTACLE	68
69	"	20/3	0.50	0.50	20/3	"	70
71	"	20/3	0.50	0.50	20/3	"	72

LIGHTING (KVA):	
RECEPTACLES (KVA):	
MOTOR/EQUIPMENT (KVA):	
TOTAL (KVA):	
TOTAL AMP. :	
(DIVERSI TOTAL (KVA):	

Notes:
1 Provide a 72 space panelboard.
2 Provide feed-thru lugs

Panel- 'H', NEW SQUARE 'D', 225 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	EXISTING	20/1			20/1	EXISTING	2
3	EXISTING	20/1			20/1	EXISTING	4
5	EXISTING	20/1			20/1	EXISTING	6
7	EXISTING	20/1			20/1	EXISTING	8
9	EXISTING	20/1			20/1	EXISTING	10
11	EXISTING	20/1			20/1	EXISTING	12
13	EXISTING	20/1			20/1	EXISTING	14
15	EXISTING	20/1			20/1	EXISTING	16
17	EXISTING	20/1			20/1	EXISTING	18
19	EXISTING	20/1			20/1	EXISTING	20
21	EXISTING	20/1			20/1	EXISTING	22
23	EXISTING	20/1			20/1	EXISTING	24
25	SPARE	20/1			20/1	SPARE	26
27	SPARE	20/1			20/1	SPARE	28
29	SPARE	20/1			20/1	SPARE	30
31	SPARE	20/1			20/1	SPARE	32
33	SPARE	20/1			20/1	SPARE	34
35	SPARE	20/1			20/1	SPARE	36
37	RECEPTACLE	20/1	0.90	0.50	20/1	RECEPTACLE (EWC)	38
39	RECEPTACLE	20/1	0.18	0.90	20/2	MOTOR (IVRF-1)	40
41	RECEPTACLE	20/1	0.54	0.90	20/2	"	42

LIGHTING (KVA):	
RECEPTACLES (KVA):	
MOTOR/EQUIPMENT (KVA):	
TOTAL (KVA):	
TOTAL AMP. :	
(DIVERSI TOTAL (KVA):	

Notes:
1 Provide a 42 space panelboard.

LIGHTING FIXTURE SCHEDULE

TYPE	QTY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	VOLT	MOUNTING: F	S	*	LAMPS/LIGHT SOURCE: COLOR	LUMENS	TYPE	WATTS/ FIXTURE	REMARKS
A4		LITHONIA	STAKS-2X4-AL08-SWW7	2'X4' LED LAYIN TROFFER, CURVED RIBBED CENTER BASKET, UNIVERSAL VOLTAGE, DIMMING, ADJUSTABLE LUMEN, ADJUSTABLE COLOR TEMPERATURE	MVLT	X			35-60	40/50/60	LED 0-10VDC DIMMING	35-55	1
A6		LITHONIA	STAkS-2X4-AL08-SWW7	2'X4' LED LAYIN TROFFER, CURVED RIBBED CENTER BASKET, UNIVERSAL VOLTAGE, DIMMING, ADJUSTABLE LUMEN, ADJUSTABLE COLOR TEMPERATURE	MVLT	X			35-60	40/50/60	LED 0-10VDC DIMMING	35-55	1
B2		LITHONIA	STAKS-2X2-ALO3-SWW7	2'X2' LED LAYIN TROFFER, CURVED RIBBED CENTER BASKET, UNIVERSAL VOLTAGE, DIMMING, ADJUSTABLE LUMEN, ADJUSTABLE COLOR TEMPERATURE	MVLT	X			35-50	30/40/50	LED 0-10VDC DIMMING	26-45	1
B3		LITHONIA	STAK-2X2-ALO3-SWW7	2'X2' LED LAYIN TROFFER, CURVED RIBBED CENTER BASKET, UNIVERSAL VOLTAGE, DIMMING, ADJUSTABLE LUMEN, ADJUSTABLE COLOR TEMPERATURE	MVLT	X			35-50	30/40/50	LED 0-10VDC DIMMING	26-45	1
B4		LITHONIA	STAK-2X2-ALO3-SWW7	2'X2' LED LAYIN TROFFER, CURVED RIBBED CENTER BASKET, UNIVERSAL VOLTAGE, DIMMING, ADJUSTABLE LUMEN, ADJUSTABLE COLOR TEMPERATURE	MVLT	X			4000K	30/40/50	LED 0-10VDC DIMMING	26-45	1
CX		LITHONIA	LDN6-40-20-L06-AR-LSS-TRW-MVOLT-GZ10	6" RECESSED DOWNLIGHT, 40K, 2000LUMENS, DOWNLIGHT, CLEAR TRIM COLOR, SEMI SPECULAR TRIM COLOR, WHITE FLANGE, 0-10V DIMMING	MVLT	X			4000K	2000	LED 0-10VDC DIMMING	20	1
D		LITHONIA	UFIT-L48-10000LM-SEF-MVOLT-EZ1-40K-80CRI-WH	4'-0" LOW BAY LED	MVLT		X		4000K	10000	LED 0-10VDC DIMMING	75	1
FP3		LITHONIA	CPX-2X4-ALO8-SWW7-M2	2'X4' LAYIN LED FLAT PANEL, ADJUSTABLE LUMEN, ADJUSTABLE COLOR	MVLT		X		4000K	15000	LED 0-10VDC DIMMING	31-48	1
F		FIXTURE ALLOWANCE	TBD	TBD	MVLT		X		4000K	TBD	TBD	TBD	2
G		LITHONIA	LDN8CYL-40/120-LO8BR-120-GZ10-FCM-DWHG	8" DIA. CYLINDER, WHITE FINISH, CEILING MOUNT	120		X		4000K	12000	LED	149	1
J		FIXTURE ALLOWANCE	TBD	TBD	MVLT		X		4000K	TBD	TBD	TBD	2
S4		LITHONIA	CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI WH	4'-0 LED STRIP LIGHT WITH LENS	MVLT		X		4000K	5000	LED 0-10VDC DIMMING	35	1
S8		LITHONIA	CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI WH	8'-0 LED STRIP LIGHT WITH LENS	MVLT		X		4000K	10000	LED 0-10VDC DIMMING	70	1
SSL2		MARK LIGHTING	S4PD LLP 2FT MSL2 80CRI 40K 800LMF SCT MIN1 FLL MVOLT SLVT ZT F2/72A RDCY SLVCY WCRD	2'-0 SUSPENDED LINEAR LED SLOT, SILVER FINISH	MVLT	X			4000K	1500	LED 0-10VDC DIMMING	25	1
SSL4		MARK LIGHTING	S4PD LLP 4FT MSL2 80CRI 40K 800LMF SCT MIN1 FLL MVOLT SLVT ZT F2/72A RDCY SLVCY WCRD	4'-0 SUSPENDED LINEAR LED SLOT, SILVER FINISH	MVLT	X			4000K	3000	LED 0-10VDC DIMMING	30	1
SSL6		MARK LIGHTING	S4PD LLP 6FT MSL2 80CRI 40K 800LMF SCT MIN1 FLL MVOLT SLVT ZT F2/72A RDCY SLVCY WCRD	6'-0 SUSPENDED LINEAR LED SLOT, SILVER FINISH	MVLT	X			4000K	4,500	LED 0-10VDC DIMMING	45	1
SSL8		MARK LIGHTING	S4PD LLP 8FT MSL2 80CRI 40K 800LMF SCT MIN1 FLL MVOLT SLVT ZT F2/72A RDCY SLVCY WCRD	8'-0 SUSPENDED LINEAR LED SLOT, SILVER FINISH	MVLT	X			4000K	6,000	LED 0-10VDC DIMMING	60	1
SL4		MARK LIGHTING	SL4L LOP 4FT FLP (CEIL) 80CRI 40K 800LMF MIN1 120 ZT	4'-0 RECESSED LINEAR LED SLOT, WHITE	120	X			4000K	3000	LED 0-10VDC DIMMING	30	1
SL6		MARK LIGHTING	SL4L LOP 6FT FLP (CEIL) 80CRI 40K 800LMF MIN1 120 ZT	6'-0 RECESSED LINEAR LED SLOT	120	X			4000K	5400	LED 0-10VDC DIMMING	54	1
SL12		MARK LIGHTING	SL4L LOP 12FT FLP (CEIL) 80CRI 40K 800LMF MIN1 120 ZT	12'-0 RECESSED LINEAR LED SLOT, WHITE	120	X			4000K	7200	LED 0-10VDC DIMMING	80	1
SL18		MARK LIGHTING	SL4L LOP 18FT FLP (CEIL) 80CRI 40K 800LMF MIN1 120 ZT	18'-0 RECESSED LINEAR LED SLOT, WHITE	120	X			4000K	8400	LED 0-10VDC DIMMING	100	1
TL		LITHONIA	LTKNSTBF-BR20-DBL	BLACK LED TRACK LIGHTING	120		X		4000K	500 EA	LED 0-10VDC DIMMING	10	1
VT		LITHONIA	FEM-L48-WD-MVOLT-GZ10-40K-80CRI	4'-0" ENCLOSED GASKETED LED	MVLT		X		4000K	5000	LED 0-10VDC DIMMING	50	1
WG		LITHONIA	EX4S-1000-90-40-GZ-8-W-UNV-DP-1-SC	8'-0" EXTERIOR LED WALL GRAZER WALL MOUNT	MVLT		X		4000K	8000	LED	80	1
WS		LITHONIA	FMVCALS-24IN-MVOLT-30K35K40K-90CRI-BN	24 INCH VANITY LIGHT, BRUSHED NICKEL FINISH	MVLT		X		4000K	1700	LED	18	1
WW60		AXIS LIGHTING	EX4S-1000-90-40-WW-5-C-UNV-DP-1	5'-0" WALL WASHER, CUSTOM COLOR, LED	MVLT		X		4000K	5000	LED	50	1
WW72		AXIS LIGHTING	EX4S-1000-90-40-WW-6-C-UNV-DP-1	6'-0" WALL WASHER, CUSTOM COLOR, LED	MVLT		X		4000K	5000	LED	75	1
X1/X2		LITHONIA	LHQM LED R	LED EXIT LIGHT, RED LETTERS, WHITE HOUSING, THERMO-PLASTIC, BATTERY BACKUP, TWO 1.5 WATT EGRESS LIGHTS, UNIVERSAL MONTING.	120/ 277		X				LED	<5	1

REMARKS:
1 EQUALS WILL BE ACCEPTED FOR THIS LIGHTING FIXTURE.
2 PROVIDE A LIGHTING FIXTURE ALLOWANCE OF $60,000.00 FOR PROJECT IN BID.

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:
galileo CONSULTING GROUP
2920 EAST AVENUE SOUTH SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9106 FAX: (608) 787-8995
E-MAIL: PPopowich@galileo-group.us

Project Title: WESTERN TECHNICAL COLLEGE INNOVATION CENTER
Project Location: 405 8TH STREET NORTH LA CROSSE, WI
Sheet Title: ELECTRICAL SCHEDULES

HSR Project Number: 24003
Project Date: AUGUST 2024
Drawn By: PLP
Key Plan:

Revisions:

No.	Description	Date
2	ADDENDUM #2	8–16–2024

Graphic Scale: VARIES
Last Update: 7/24/2024

E500

Panel- 'J1', NEW SQUARE 'D', 225 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	EXISTING	20/1			20/1	EXISTING	2
3	EXISTING	20/1			20/1	EXISTING	4
5	EXISTING	20/1			20/1	EXISTING	6
7	EXISTING	20/1			20/1	EXISTING	8
9	EXISTING	20/1			20/1	EXISTING	10
11	EXISTING	20/1			20/1	EXISTING	12
13	EXISTING	20/1			20/1	EXISTING	14
15	EXISTING	20/1			20/1	EXISTING	16
17	EXISTING	20/1			20/1	EXISTING	18
19	EXISTING	20/1			20/1	EXISTING	20
21	EXISTING	20/1			20/1	EXISTING	22
23	EXISTING	20/1			20/1	EXISTING	24
25	EXISTING	20/1			20/1	EXISTING	26
27	EXISTING	20/1			20/1	EXISTING	28
29	EXISTING	20/1		0.72	20/1	RECEPTACLE	30
31	RECEPTACLE	20/1	0.72	1.10	20/1	RECEPTACLE	32
33	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	34
35	RECEPTACLE	20/1	0.54	0.54	20/1	RECEPTACLE	36
37	RECEPTACLE	20/1	0.72	0.72	20/1	RECEPTACLE	38
39	RECEPTACLE	20/1	1.10	0.72	20/1	RECEPTACLE	40
41	RECEPTACLE	20/1	0.72	0.72	20/1	RECEPTACLE	42
43	RECEPTACLE	20/1	0.90	0.18	20/1	RECEPTACLE	44
45	RECEPTACLE	20/1	1.50	0.18	20/1	RECEPTACLE	46
47	RECEPTACLE	20/1	0.18	0.36	20/1	RECEPTACLE	48
49	RECEPTACLE (GFI BRK.)	20/1	0.90	0.18	20/1	RECEPTACLE	50
51	RECEPTACLE	20/1	0.36	0.54	20/1	RECEPTACLE	52
53	RECEPTACLE	20/1	0.36		20/1	SPARE	54

LIGHTING (KVA):
RECEPTACLES (KVA):
MOTOR/EQUIPMENT (KVA):
TOTAL (KVA):
TOTAL AMP. :
(DIVERSI TOTAL (KVA):

Notes:
1 Provide a 54 space panelboard.
2 Provide feed thru lugs

Panel- 'J2', NEW SQUARE 'D', 225 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	EXISTING	20/1			20/1	EXISTING	2
3	EXISTING	20/1			20/1	EXISTING	4
5	EXISTING	20/1			20/1	EXISTING	6
7	EXISTING	20/1			20/1	EXISTING	8
9	EXISTING	20/1			20/1	EXISTING	10
11	EXISTING	20/1			20/1	EXISTING	12
13	EXISTING	20/1			20/1	EXISTING	14
15	EXISTING	20/1			20/1	EXISTING	16
17	EXISTING	20/1			20/1	EXISTING	18
19	EXISTING	20/1			20/1	EXISTING	20
21	EXISTING	20/1			20/1	EXISTING	22
23	EXISTING	20/1			20/1	EXISTING	24
25	EXISTING	20/1			20/1	SPARE	26
27	EXISTING	20/1			20/1	SPARE	28
29	EXISTING	20/1		0.72	20/1	RECEPTACLE	30
31	RECEPTACLE	20/1	0.72	0.72	20/1	RECEPTACLE	32
33	RECEPTACLE	20/1	0.72	0.72	20/1	RECEPTACLE	34
35	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	36
37	RECEPTACLE	20/1	0.36	0.90	20/1	RECEPTACLE	38
39	RECEPTACLE	20/1	0.90	0.36	20/1	RECEPTACLE	40
41	RECEPTACLE	20/1	0.72	0.18	20/1	RECEPTACLE	42
43	RECEPTACLE	20/1	0.50	1.10	20/1	RECEPTACLE	44
45	MOTOR (DF-2)	20/1	0.30	3.50	45/3	MOTOR (OVRF-2)	46
47	DOOR ACCESS CONTROL	20/1	0.50	3.50	45/3	"	48
49	IT RACK RECEPTACLE	20/1	1.00	3.50	45/3	"	50
51	IT RACK RECEPTACLE	20/1	1.00	1.25	20/2	MOTOR (CU-AC-1)	52
53	RECEPTACLES	20/1	0.72	1.25	20/2	"	54

LIGHTING (KVA):
RECEPTACLES (KVA):
MOTOR/EQUIPMENT (KVA):
TOTAL (KVA):
TOTAL AMP. :
(DIVERSI TOTAL (KVA):

Notes:
1 Provide a 54 space panelboard.

Panel- 'K', NEW SQUARE 'D', 225 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	RECEPTACLE (#1 & #2)	30/2	1.85	0.80	20/2	RECEPTACLE (#13)	2
3	"	30/2	1.85	0.80	20/2	"	4
5	RECEPTACLE (#10)	20/2	0.62	0.36	20/1	RECEPTACLE	6
7	"	20/2	0.62	1.44	20/1	RECEPTACLE (#8)	8
9	RECEPTACLE (#4)	20/1	1.51	1.85	30/2	AIR COMPRESSOR (#5)	10
11	RECEPTACLE #3)	20/1	0.18	1.85	30/2	"	12
13	RECEPTACLE (#3)	20/2	0.85	0.36	20/1	RECEPTACLE	14
15	"	20/2	0.85	0.36	20/1	RECEPTACLE	16
17	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	18
19	RECEPTACLE (#14)	30/2	1.85	1.90	20/1	RECEPTACLE (#7)	20
21	"	30/2	1.85	1.90	20/1	RECEPTACLE (#8)	22
23	RECEPTACLE	20/1	0.36	1.70	20/1	RECEPTACLE (#9)	24
25	RECEPTACLE (#11)	20/1	1.50	1.50	20/1	RECEPTACLE (#12 & 13)	26
27	RECEPTACLE (#15)	20/1	1.70	1.50	20/1	RECEPTACLE (#16)	28
29	RECEPTACLE (#17)	20/1	1.70	1.50	20/1	FLOOR DRILL PRESS	30
31	FLOOR DRILL PRESS	20/1	1.50	0.36	20/1	RECEPTACLE	32
33	RECEPTACLE (#18,19)	20/1	1.00	1.00	20/1	RECEPTACLE (#18,19)	34
35	RECEPTACLE (#18,19)	20/1	1.00	1.00	20/1	RECEPTACLE (#18,19)	36
37	RECEPTACLE (#18,19)	20/1	1.00	1.00	20/1	RECEPTACLE (#18,19)	38
39	RECEPTACLE (#20)	20/1	1.00	0.50	20/2	RECEPTACLE (#20)	40
41	RECEPTACLE (#21)	20/1	1.00	0.50	20/2	"	42
43	RECEPTACLE (#21)	20/1	1.00	1.00	20/1	RECEPTACLE (#21)	44
45	RECEPTACLE (#21)	20/1	1.00	1.00	20/1	RECEPTACLE (#22)	46
47	RECEPTACLE (#22)	20/1	1.00	1.00	20/1	RECEPTACLE (#23)	48
49	MOTOR OHD	20/1	1.50	0.18	20/1	CORD REEL	50
51	CORD REEL	20/1	0.18	0.18	20/1	CORD REEL	52
53	CORD REEL	20/1	0.18	0.18	20/1	CORD REEL	54
55	RECEPTACLE	20/1	0.72	0.72	20/1	RECEPTACLE	56
57	RECEPTACLE	20/1	0.72	0.72	20/1	RECEPTACLE	58
59	RECEPTACLE (#24)	20/1	0.36	1.50	20/1	RECEPTACLE (#16)	60
61	RECEPTACLE (#25)	20/1	0.36	0.36	20/1	RECEPTACLE	62
63	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	64
65	RECEPTACLE	20/1	0.36	0.72	20/1	RECEPTACLE	66
67	RECEPTACLE	20/1	0.72	0.36	20/1	RECEPTACLE	68
69	RECPETACLE	20/1	0.36	0.54	20/1	RECPETACLE	70
71	LIGHTING	20/1	1.20	0.36	20/1	RECEPTACLE	72
73	RECEPTACLE	20/1	0.72	0.72	20/1	RECEPTACLE	74
75	REFCEPTACLE	20/1	0.72	0.72	20/1	RECEPTACLE	76
77	RECEPTACLE	20/1	0.54	0.72	20/1	RECEPTACLE	78
79	RECEPTACLE	20/1	0.72		20/1	SPARE	80
81	SPARE	20/1			20/1	SPARE	82
83	SPARE	20/1			20/1	SPARE	84
85	SPARE	20/1			20/1	SPARE	86
87	SPARE	20/1			20/1	SPARE	88
89	SPARE	20/1			20/1	SPARE	90
91	SPARE	20/1			20/1	SPARE	92
93	SPARE	20/1			20/1	SPARE	94
95	SPARE	20/1			20/1	SPARE	96
97	SPARE	20/1			20/1	SPARE	98
99	SPARE	20/1			20/1	SPARE	100
101	SPARE	20/1			20/1	SPARE	102
103	SPARE	20/1			20/1	SPARE	104
105	SPARE	20/1			20/1	SPARE	106
107	SPARE	20/1			20/1	SPARE	108

LIGHTING (KVA): 1.2
RECEPTACLES (KVA): 69.6
MOTOR/EQUIPMENT (KVA):
TOTAL (KVA): 70.8
TOTAL AMP. : 196.7
(DIVERSI TOTAL (KVA):

Notes:
1 Provide Two (2) 54 space panelboards for a total of 108.

Panel- 'L', NEW SQUARE 'D', 225 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	RECEPTACLE (#31)	15/3	1.50	1.50	15/3	RECEPTACLE (#31)	2
3	"	15/3	1.50	1.50	15/3	"	4
5	"	15/3	1.50	1.50	15/3	"	6
7	RECEPTACLE (#31)	15/3	1.50	1.50	15/3	RECEPTACLE (#31)	8
9	"	15/3	1.50	1.50	15/3	"	10
11	"	15/3	1.50	1.50	15/3	"	12
13	RECEPTACLE (#31)	15/3	1.50	1.50	15/3	RECEPTACLE (#31)	14
15	"	15/3	1.50	1.50	15/3	"	16
17	"	15/3	1.50	1.50	15/3	"	18
19	RECEPTACLE	20/1	0.36	0.90	20/1	RECPETACLE	20
21	RECEPTACLE	20/1	0.36	0.54	20/1	RECEPTACLE	22
23	OVERHEAD DOOR	20/1	1.00	0.36	20/1	RECEPTACLE	24
25	RECEPTACLE	20/1	0.36	0.36	20/1	RECPETACLE	26
27	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	28
29	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	30
31	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE (#26)	32
33	RECEPTACLE (#27)	20/1	0.36	0.36	20/1	RECEPTACLE (#26)	34
35	RECEPTACLE (#27)	20/1	0.36	0.36	20/1	RECEPTACLE (#26)	36
37	RECEPTACLE (#27)	20/1	0.36	0.36	20/1	RECEPTACLE (#26)	38
39	RECEPTACLE (#27)	20/1	0.36	0.36	20/2	RECEPTACLE (#26)	40
41	RECEPTACLE (#27)	20/1	0.36	0.36	20/2	RECEPTACLE (#26)	42
43	RECEPTACLE (#27)	20/1	0.36	0.36	20/1	RECEPTACLE (#26)	44
45	RECEPTACLE (#27)	20/1	0.36	0.36	20/1	RECEPTACLE (#26)	46
47	RECEPTACLE (#27)	20/1	0.36	0.36	20/1	RECEPTACLE (#26)	48
49	RECEPTACLE (#27)	20/1	0.36	0.36	20/1	RECEPTACLE (#26)	50
51	RECEPTACLE (#27)	20/1	0.36	0.36	20/1	RECEPTACLE (#26)	52
53	RECEPTACLE (#27)	20/1	0.36	0.36	20/1	RECEPTACLE (#26)	54
55	RECEPTACLE (#27)	20/1	0.36	0.36	20/1	RECEPTACLE	56
57	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	58
59	RECEPTACLE (#26)	20/1	0.36	0.36	20/1	RECEPTACLE (#27)	60
61	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	62
63	RECEPTACLE (#27)	20/1	0.36	0.50	20/1	MOTOR (UH-1)	64
65	OVERHEAD DOOR	20/1	1.00	0.36	20/1	RECEPTACLE	66
67	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	68
69	RECEPTACLE	20/1	0.36	0.36	20/1	RECEPTACLE	70
71	RECEPTACLE	20/1	0.72	0.36	20/1	RECEPTACLE	72
73	RECEPTACLE	20/1	0.72	0.54	20/1	RECEPTACLE	74
75	RECEPTACLE	20/1	0.54	1.30	20/1	LIGHTING	76
77	LIGHTING	20/1	0.90	0.70	20/1	LIGHTING	78
79	LIGHTING	20/1	1.20	1.00	20/1	OVERHEAD DOOR	80
81	OVERHEAD DOOR	20/1	1.00	1.00	20/1	RECEPTACLE - IT RACK	82
83	RECEPTACLE	20/1	0.90	0.36	20/1	RECEPTACLE	84
85	SPARE	20/1			20/1	SPARE	86
87	SPARE	20/1			20/1	SPARE	88
89	SPARE	20/1			20/1	SPARE	90
91	SPARE	20/1			20/1	SPARE	92
93	SPARE	20/1			20/1	SPARE	94
95	SPARE	20/1			20/1	SPARE	96
97	SPARE	20/1			20/1	SPARE	98
99	SPARE	20/1			20/1	SPARE	100
101	SPARE	20/1			20/1	SPARE	102
103	SPARE	20/1			20/1	SPARE	104
105	SPARE	20/1			20/1	SPARE	106
107	SPARE	20/1			20/1	SPARE	108

LIGHTING (KVA): 4.1
RECEPTACLES (KVA): 50.5
MOTOR/EQUIPMENT (KVA): 4.5
TOTAL (KVA): 59.1
TOTAL AMP. : 164.2
(DIVERSI TOTAL (KVA):

Notes:
1 Provide Two (2) 54-space panels for a total of 108 spaces.
2 Provide sub-free lugs as required.

Panel- 'M', New Square 'D', 125 A, 480/277VAC, Main Brk. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	RECEPTACLE (#33)	30/3	6.60	6.60	30/3	RECEPTACLE (#33)	2
3	"	30/3	6.60	6.60	30/3	"	4
5	"	30/3	6.60	6.60	30/3	"	6
7	RECEPTACLE (#33)	30/3	6.60		20/1	SPARE	8
9	"	30/3	6.60		20/1	SPARE	10
11	"	30/3	6.60		20/1	SPARE	12
13	SPARE	20/1			20/1	SPARE	14
15	SPARE	20/1			20/1	SPARE	16
17	SPARE	20/1			20/1	SPARE	18
19	SPARE	20/1			20/1	SPARE	20
21	SPARE	20/1			20/1	SPARE	22
23	SPARE	20/1			20/1	SPARE	24
25	SPARE	20/1			20/1	SPARE	26
27	SPARE	20/1			20/1	SPARE	28
29	SPARE	20/1			20/1	SPARE	30

LIGHTING (KVA):
RECEPTACLES (KVA):
MOTOR/EQUIPMENT (KVA): 59.7
TOTAL (KVA): 59.7
TOTAL AMP. : 71.9
(DIVERSI TOTAL (KVA):

Notes:
1

2 Panel- 'NA', NEW SQUARE 'D', 225 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	EXISTING	20/1			20/1	EXISTING	2
3	EXISTING	20/1			20/1	EXISTING	4
5	EXISTING	20/1			20/1	EXISTING	6
7	EXISTING	20/1			20/1	EXISTING	8
9	EXISTING	20/1			20/1	EXISTING	10
11	EXISTING	20/1			20/1	EXISTING	12
13	EXISTING	20/1			20/1	EXISTING	14
15	EXISTING	20/1			20/1	EXISTING	16
17	EXISTING	20/1			20/1	EXISTING	18
19	EXISTING	20/1			20/1	EXISTING	20
21	EXISTING	20/1			20/1	EXISTING	22
23	EXISTING	20/1			20/1	EXISTING	24
25	EXISTING	20/1			20/1	EXISTING	26
27	EXISTING	20/1			20/1	EXISTING	28
29	EXISTING	20/1			20/1	EXISTING	30
31	EXISTING	20/1			20/1	EXISTING	32
33	EXISTING	20/1			20/1	EXISTING	34
35	EXISTING	20/1			20/1	EXISTING	36
37	EXISTING	30/3			20/1	EXISTING	38
39	"	30/3			20/1	EXISTING	40
41	"	30/3			20/1	EXISTING	42
43	SPARE	20/1			20/1	SPARE	44
45	SPARE	20/1			20/1	SPARE	46
47	SPARE	20/1			20/1	SPARE	48
49	SPARE	20/1			20/1	SPARE	50
51	SPARE	20/1			20/1	SPARE	52
53	SPARE	20/1			20/1	SPARE	54
55	SPARE	20/1			20/1	SPARE	56
57	SPARE	20/1			20/1	SPARE	58
59	SPARE	20/1			20/1	SPARE	60
61	SPARE	20/1			20/1	SPARE	62
63	SPARE	20/1			20/1	SPARE	64
65	SPARE	20/1			20/1	SPARE	66
67	SPARE	20/1			20/1	SPARE	68
69	SPARE	20/1			20/1	SPARE	70
71	SPARE	20/1			20/1	SPARE	72
73	SPARE	20/1			20/1	SPARE	74
75	SPARE	20/1			20/1	SPARE	76
77	SPARE	20/1			20/1	SPARE	78
79	SPARE	20/1			20/1	SPARE	80
81	SPARE	20/1			20/1	SPARE	82
83	SPARE	20/1			20/1	SPARE	84

LIGHTING (KVA):
RECEPTACLES (KVA):
MOTOR/EQUIPMENT (KVA):
TOTAL (KVA):
TOTAL AMP. :
(DIVERSI TOTAL (KVA):

Notes:
1 Provide Two (2) 42 space panelboards.
2 Provide Sub-feed lugs.

Panel- 'NB', NEW SQUARE 'D', 225 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	XSTG TVSS	30/3			20/1	EXISTING	2
3	"	30/3			20/1	EXISTING	4
5	"	30/3			20/1	EXISTING	6
7	EXISTING	20/1			20/1	EXISTING	8
9	EXISTING	20/1			20/1	EXISTING	10
11	EXISTING	20/1			20/1	EXISTING	12
13	EXISTING	20/1			20/1	EXISTING	14
15	EXISTING	20/1			20/1	EXISTING	16
17	EXISTING	20/1			20/1	EXISTING	18
19	EXISTING	20/1			20/1	EXISTING	20
21	EXISTING	20/1			20/1	EXISTING	22
23	EXISTING	20/1			20/1	EXISTING	24
25	EXISTING	20/1			20/1	EXISTING	26
27	EXISTING	20/1			20/1	EXISTING	28
29	EXISTING	20/1			20/1	EXISTING	30
31	EXISTING	20/1			20/1	EXISTING	32
33	EXISTING	20/1			20/1	EXISTING	34
35	EXISTING	20/1			20/1	EXISTING	36
37	EXISTING	20/1			20/1	EXISTING	38
39	SPARE	20/1			20/1	SPARE	40
41	SPARE	20/1			20/3	SPARE	42
43	SPARE	20/1			20/3	SPARE	44
45	SPARE	30/3			20/3	SPARE	46
47	SPARE	30/3			15/3	SPARE	48
49	SPARE	30/3			15/3	SPARE	50
51	SPARE	15/1			15/1	SPARE	52
53	SPARE	15/1			15/1	SPARE	54

LIGHTING (KVA):
RECEPTACLES (KVA):
MOTOR/EQUIPMENT (KVA):
TOTAL (KVA):
TOTAL AMP. :
(DIVERSI TOTAL (KVA):

Notes:
1 Provide a 54 space panelboard.
2

Panel- 'NC', NEW SQUARE 'D', 225 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)	Load (KVA)	C/B Size/Type	Serves	Space No.
1	XSTG TVSS	30/3			30/3	EXSTG AHU	2
3	"	30/3			30/3	"	4
5	"	30/3			30/3	"	6
7	EXISTING	20/1			20/1	EXISTING	8
9	EXISTING	20/1			20/1	EXISTING	10
11	EXISTING	20/1			20/1	EXISTING	12
13	EXISTING	20/1			20/1	EXISTING	14
15	EXISTING	20/1			20/1	EXISTING	16
17	EXISTING	20/1			20/1	EXISTING	18
19	EXISTING	20/1			20/1	EXISTING	20
21	EXISTING	20/1			20/1	EXISTING	22
23	EXISTING	20/1			20/1	EXISTING	24
25	EXISTING	20/1			20/1	EXISTING	26
27	EXISTING	20/1			20/1	EXISTING	28
29	EXISTING	20/1			20/1	EXISTING	30
31	EXISTING	20/1			20/1	EXISTING	32
33	EXISTING	20/1			20/1	EXISTING	34
35	EXISTING	20/1			20/1	EXISTING	36
37	EXISTING	20/1			20/1	EXISTING	38
39	SPARE	20/1			20/1	SPARE	40
41	SPARE	20/1			20/3	SPARE	42
43	SPARE	20/1			20/3	SPARE	44
45	SPARE	30/3			20/3	SPARE	46
47	SPARE	30/3			15/3	SPARE	48
49	SPARE	30/3			15/3	SPARE	50
51	SPARE	15/1			15/1	SPARE	52
53	SPARE	15/1			15/1	SPARE	54

LIGHTING (KVA):
RECEPTACLES (KVA):
MOTOR/EQUIPMENT (KVA):
TOTAL (KVA):
TOTAL AMP. :
(DIVERSI TOTAL (KVA):

Notes:
1 Provide a 54 space panelboard.

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:
galileo CONSULTING GROUP
2920 EAST AVENUE SOUTH SUITE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9106 FAX: (608) 787-8995
E-MAIL: PPopowich@galileo-group.us

Project Title: WESTERN TECHNICAL COLLEGE INNOVATION CENTER

Project Location: 405 8TH STREET NORTH LA CROSSE, WI

Sheet Title: ELECTRICAL SCHEDULES

HSR Project Number: 24003

Project Date: AUGUST 2024

Drawn By: PLP

Key Plan:

Revisions:

No.	Description	Date
2	ADDENDUM #2	8-16-2024

Graphic Scale: VARIES

Last Update: 7/24/2024

E501

2 Panel- 'A', NEW SQUARE 'D', 225 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)		Load (KVA)	C/B Size/Type	Serves	Space No.
1	XSTG TVSS	30/3				20/1	EXISTING	2
3	"	30/3				20/1	EXISTING	4
5	"	30/3				20/1	EXISTING	6
7	EXISTING	20/1				20/1	EXISTING	8
9	EXISTING	20/1				20/1	EXISTING	10
11	EXISTING	20/1				20/1	EXISTING	12
13	EXISTING	20/1				20/1	EXISTING	14
15	EXISTING	20/1				20/1	EXISTING	16
17	EXISTING	20/1				20/1	EXISTING	18
19	EXISTING	20/1				20/1	EXISTING	20
21	EXISTING	20/1				20/1	EXISTING	22
23	EXISTING	20/1				20/1	EXISTING	24
25	EXISTING	20/1				20/1	EXISTING	26
27	EXISTING	20/1				20/1	EXISTING	28
29	EXISTING	20/1				20/1	EXISTING	30
31	EXISTING	20/1				20/2	EXISTING	32
33	EXISTING	20/1				20/2	"	34
35	EXISTING	20/1				20/2	EXISTING	36
37	EXISTING	20/1				20/2	"	38
39	EXISTING	20/1				20/2	EXISTING	40
41	EXISTING	20/1				20/2	"	42
43	SPARE	20/1				20/1	SPARE	44
45	SPARE	20/1				20/1	SPARE	46
47	SPARE	20/1				20/1	SPARE	48
49	SPARE	20/1				20/1	SPARE	50
51	SPARE	20/1				20/1	SPARE	52
53	SPARE	20/1				20/1	SPARE	54

LIGHTING (KVA):			
RECEPTACLES (KVA):			
MOTOR/EQUIPMENT (KVA):			
		TOTAL AMP. :	
TOTAL (KVA):		(DIVERSI TOTAL (KVA):	

Notes:
1 Provide a 54 space panelboard.

2 Panel- 'C', NEW SQUARE 'D', 125 AMP., 120/208VAC, M.L.O. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)		Load (KVA)	C/B Size/Type	Serves	Space No.
1	EXISTING	20/1			1.25	20/2	BCP-1	2
3	EXISTING	20/1			1.25	20/2	"	4
5	EXISTING	20/1				20/1	EXISTING	6
7	EXISTING	20/1				20/1	EXISTING	8
9	EXISTING	20/1			1.70	20/1	HCP-1	10
11	EXISTING	20/1				20/1	EXISTING	12
13	EXISTING	20/1			0.10	20/1	BOILER EM STOP	14
15	EXISTING	20/2				20/1	EXISTING	16
17	"	20/2				20/1	SPARE	18
19	EXISTING	20/2				20/1	EXISTING	20
21	"	20/2				20/1	SPARE	22
23	BCP-2	20/2	1.25			20/1	SPARE	24
25	"	20/2	1.25			20/1	SPARE	26
27	BLR-1 (Shunt-trip brk)	20/1	1.60			20/1	SPARE	28
29	BLR-2 (Shunt-trip brk)	20/1	1.60			20/1	SPARE	30
31	SPARE	20/1				20/1	SPARE	32
33	SPARE	20/1				20/1	SPARE	34
35	SPARE	20/1				20/1	SPARE	36
37	SPARE	20/1				20/1	SPARE	38
39	SPARE	20/1				20/1	SPARE	40
41	SPARE	20/1				20/1	SPARE	42
43	SPARE	20/1				20/1	SPARE	44
45	SPARE	20/1				20/1	SPARE	46
47	SPARE	20/1				20/1	SPARE	48
49	SPARE	20/1				20/1	SPARE	50
51	SPARE	20/1				20/1	SPARE	52
53	SPARE	20/1				20/1	SPARE	54

LIGHTING (KVA):			
RECEPTACLES (KVA):			
MOTOR/EQUIPMENT (KVA):			
		TOTAL AMP. :	
TOTAL (KVA):		(DIVERSI TOTAL (KVA):	

Notes:
1 Provide a 54 space panelboard.
2

2 Panel- 'E', NEW SQUARE 'D', 125 AMP., 120/208VAC, M.BRK. 22K

Space No.	Serves	C/B Size/Type	Load (KVA)		Load (KVA)	C/B Size/Type	Serves	Space No.
1	EXISTING	20/1				20/1	EXISTING	2
3	EXISTING	20/1				20/1	EXISTING	4
5	EXISTING	20/1				20/1	EXISTING	6
7	EXISTING	20/1				20/1	EXISTING	8
9	EXISTING	20/1				20/1	EXISTING	10
11	EXISTING	20/1				20/1	EXISTING	12
13	EXISTING	20/1				20/1	EXISTING	14
15	EXISTING	20/1				20/1	EXISTING	16
17	EXISTING	20/1				20/1	SPARE	18
19	EXISTING	20/3				20/1	EXISTING	20
21	EXISTING	20/3				20/1	SPARE	22
23	EXISTING	20/3				20/1	SPARE	24
25	SPARE	20/1				20/1	EXISTING	26
27	SPARE	20/1				20/1	EXISTING	28
29	SPARE	20/1				20/1	EXISTING	30
31	EXISTING	20/1				20/1	EXISTING	32
33	EXISTING	20/1				20/1	EXISTING	34
35	EXISTING	20/1				20/1	SPARE	36
37	SPARE	20/1				20/1	SPARE	38
39	SPARE	20/1				20/1	SPARE	40
41	SPARE	20/1				20/1	SPARE	42
43	SPARE	20/1				20/1	SPARE	44
45	SPARE	20/1				20/1	SPARE	46
47	SPARE	20/1				20/1	SPARE	48
49	SPARE	20/1				20/1	SPARE	50
51	SPARE	20/1				20/1	SPARE	52
53	SPARE	20/1				20/1	SPARE	54

LIGHTING (KVA):			
RECEPTACLES (KVA):			
MOTOR/EQUIPMENT (KVA):			
		TOTAL AMP. :	
TOTAL (KVA):		(DIVERSI TOTAL (KVA):	

Notes:
1 Provide a Square 'D' I-Line panelboard.
2

2 Panel- 'P', NEW SQUARE 'D', 800 AMP., 120/208VAC, M.L.O. 65K

Space No.	Serves	C/B Size/Type	Load (KVA)		Load (KVA)	C/B Size/Type	Serves	Space No.
1	HWP-1	50/3	3.10		3.10	50/3	HWP-2	2
3	"	50/3	3.10		3.10	50/3	"	4
5	"	50/3	3.10		3.10	50/3	"	6
7	XSTG COMPUTER ROOM	20/3	XSTG		XSTG	20/3	XSTG CIRC. PUMPS	8
9	AHU	20/3	XSTG		XSTG	20/3	"	10
11	"	20/3	XSTG		XSTG	20/2	"	12
13	XSTG CWP-2	30/3	XSTG			30/3	XSTG CWP-1	14
15	"	30/3	XSTG			30/3	"	16
17	"	30/3	XSTG			30/3	"	18
19	XSTG REHEAT PUMPS	40/3	XSTG			40/3	XSTG HOT WATER HEATER	20
21	"	40/3	XSTG			40/3	"	22
23	"	40/3	XSTG			40/3	"	24
25	XSTG (UNKNOWN)	70/3	XSTG			40/3	XSTG SEWAGE PUMPS	26
27	NOT LABELED	70/3	XSTG			40/3	"	28
29	"	70/3	XSTG			40/3	"	30
31	XSTG WELL	100/3	XSTG			100/3	XSTG SPARE EAST WALL	32
33	"	100/3	XSTG			100/3	ROOM 022A	34
35	"	100/3	XSTG			100/3	"	36
37	XSTG RETURN FAN	100/3	XSTG			125/3	SUB PANEL 'C'	38
39	"	100/3	XSTG			125/3	"	40
41	"	100/3	XSTG			125/3	"	42
43	SPARE	200/3				200/3	XSTG PRIMARY AIR SUPPLY	44
45	"	200/3				200/3	"	46
47	"	200/3				200/3	"	48
49	SPARE	100/3				225/3	SPARE	50
51	"	100/3				225/3	"	52
53	"	100/3				225/3	"	54

LIGHTING (KVA):			
RECEPTACLES (KVA):			
MOTOR/EQUIPMENT (KVA):			
		TOTAL AMP. :	
TOTAL (KVA):		(DIVERSI TOTAL (KVA):	

Notes:
1 Provide a Square 'D' I-Line panelboard.
2 Provide as an Alternate Bid.

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:

galileo CONSULTING GROUP
2929 EAST AVE SOUTH STE 102
LA CROSSE, WISCONSIN 54601
PHONE: (608) 787-9304, FAX: (608) 787-8993
E-MAIL: PWysocki@galileo-group.net

Project Title: WESTERN TECHNICAL COLLEGE
INNOVATION CENTER

Project Location: 405 8TH STREET NORTH
LA CROSSE, WI

Sheet Title: ELECTRICAL SCHEDULES

HSR Project Number: 24003

Project Date: AUGUST 2024

Drawn By: PLP

Key Plan:

Revisions:

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