SECTION 00 90 02
BIDDING AND CONTRACT REQUIREMENTS
ADDENDUM NUMBER 2

Demonica Kemper Architects
125 N. Halsted Street, Suite 301
Chicago, IL 60661
312.496.0000

To: Prospective Bidders

Issued: May 30, 2025

Re: ADDENDUM NUMBER (2) TO THE BIDDING DOCUMENTS FOR

McHenry County College
Engagement Hall
Architect's Project Number: 24-027

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents dated May 16, 2025. Acknowledge receipt of this addendum in the space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

ADDENDA TO THE PROJECT MANUAL

1. 00 11 00 – INVITATION TO BID
    A. **DELETE** the section for "LEED PROJECT" in its entirety.

2. 00 31 00 – Bid Form
    A. **REVISE** bid form to include all bid alternates listed.
    B. **REPLACE** the previously issued 00 31 00 with the attached section in its entirety.

3. 00 32 00 – Scope Sheet
    A. **REVISE** contractor scope breakdown.
    B. **REPLACE** the previously issued 00 32 00 with the attached section in its entirety.

4. 06 42 16 - FLUSH WOOD PANELING
    A. **REVISE** section 2.2-B to the following…
        '1. WD-1
            a. White Oak, Rift Cut, Stained to match Architects Sample: Fundermax Max Compact Exterior Panels, Natural Oak 0125 NT
        2. WD-2
            a. Walnut, Rift Cut, Stained to match Architects Sample; WilsonArt, Florence Walnut 7993'
    B. **REVISE** section 2.3-B to the following…
        '1. WD-3: White Oak, Rift Cut
            a. Size as indicated on drawings.
            b. Stained to match Architects Sample: Fundermax Max Compact Exterior Panels, Natural Oak 0125 NT
        2. WD-4: White Oak, Rift Cut
            a. Size as indicated on drawings.
            b. Stained to match Architects Sample: Fundermax Max Compact Exterior Panels, Natural Oak 0125 NT
        3. WD-5: Walnut, Rift Cut
            a. Size as indicated on drawings.
            a. Stained to match Architects Sample; WilsonArt, Florence Walnut 7993'

5. 07 71 29 - Manufactured Roof Expansion Joints
    A. **ADD** the attached section in its entirety.

6. 07 95 13.13 - Interior Expansion Joint Cover Assemblies
    A. **REVISE** types noted to align with the updated drawings. The entire section has been re-issued for clarity.

7. 07 95 13.16 - Exterior Expansion Joint Cover Assemblies
    A. **REVISE** types noted to align with the updated drawings. The entire section has been re-issued for clarity.

8. 09 91 13 - Exterior Painting
    A. **ADD** section in its entirety to cover exterior coating requirements at exposed metal substrates.

9. 09 93 00 – Staining and Transparent Finishing
    A. **ADD** section in its entirety to cover coating requirements at Heavy Timber Structure and Decking. Note the requirements for factory applied finishes versus field applied finishes.

10. 10 14 19 – Dimensional Letter Signage
    A. **ADD** the following to sections to cover requirements for back-lit, illuminated dimensional lettering… 1.1-A-1-c, 2.1-C, 2.2-C, 2.5-B, 2.7-B. The entire section has been re-issued for clarity.

<u>ADDENDA TO THE DRAWINGS</u>

ARCHITECTURAL

1. A1.01
    A. **ADD** wall section 2/A6.01.
2. A1.02
    A. **ADD** plan detail 11/A7.51.
    B. **ADD** floor plan reference note 10.
3. A2.02
    A. **ADD** RCP referenced note 16.
4. A4.01
    A. **REVISE** elevations to add insulated CFMF header with ACM finish above exterior curtain wall at the perimeter of the Engagement Hall.
    B. **ADD** exterior horizontal sprinkler heads.
    C. **ADD** note “2” EXTERIOR WALL EXPANSION JOINT” to 5/A4.01.
    D. **REVISE** note to “ACM PANEL SYSTEM” from “METAL PANEL FASCIA, MATCH EXISTING”.
    E. **DELETE** note “COPING, MATCH EXISTING.”
5. A6.01
    A. **REVISE** details to add insulated CFMF header with ACM finish above the exterior curtainwall at the perimeter of the Engagement Hall to note location of horizontal sprinkler heads.
6. A6.02
    A. **REVISE** details to add insulated CFMF header with ACM finish above the exterior curtainwall at the perimeter of the Engagement Hall.
7. A6.03
    A. **REVISE** details to add insulated CFMF header with ACM finish above the exterior curtainwall at the perimeter of the Engagement Hall.
    B. **REVISE** ACM detail at curtain wall sill of wall section 1/A6.03.
    C. **ADD** note “3” NAIL BASE INSULATION”.
    D. **REVISE** note to “2” ROOF-TO-WALL EXPANSION JOINT (REFER TO SPEC.)”
8. A6.04
    A. **REVISE** details to add insulated CFMF header with ACM finish above the exterior curtainwall at the perimeter of the Engagement Hall to note location of horizontal sprinkler heads.
9. A7.01

A. **REVISE** flashing trim to overlap outer edge of CLT decking detail at 1/A7.01, 3/A7.01, and 7/A7.01.
B. **REVISE** note to “FLUID APPLIED VAPOR RETARDER (REFER TO SPEC.)” at detail 1/A7.01, 2/A7.01, 3/A7.01, and 7/A7.01.
C. **REVISE** details to add insulated CFMF header with ACM finish above the exterior curtainwall at the perimeter of the Engagement Hall to note location of horizontal sprinkler heads.

10. A7.02
    A. **REVISE** note to “FLUID APPLIED VAPOR RETARDER (REFER TO SPEC.)” at detail 5/A7.02.
    B. **REVISE** details to add insulated CFMF header with ACM finish above the exterior curtainwall at the perimeter of the Engagement Hall to note location of horizontal sprinkler heads.
11. A7.03
    A. **ADD** note “1” INTERIOR CEILING EXPANSION JOINT (REFER TO SPEC.)”.
    B. **REVISE** note to “WOOD BLOCKING, AS REQ’D. EXPOSED PORTION PAINTED BLACK (PT-3)”.
12. A7.51
    A. **ADD** “BATT INSULATION” behind expansion joint at 11/ A7.51.
    B. **REVISE** note to “2” EXTERIOR WALL EXPANSION JOINT (REFER TO SPEC.)”.
    C. **ADD** note “2” 2-HR RATED EXPANSION JOINT (REFER TO SPEC.)” at 7/A7.51 and add to detail.
13. A7.52
    A. **REVISE** detail 23/A7.52 to show 1” INTERIOR WALL EXPANSION JOINT on both sides.
    B. **REVISE** detail 13/A7.52 to show 1” INTERIOR WALL EXPANSION JOINT on both sides.
    C. **REVISE** note to “WOOD BLOCKING, AS REQ’D. EXPOSED PORTION PAINTED BLACK (PT-3)” at detail 23/A7.52.
    D. **REVISE** note to “WOOD BLOCKING, AS REQ’D. EXPOSED PORTION PAINTED BLACK (PT-3)” at detail 13/A7.52.
14. A7.71
    A. **REVISE** view number of 9/A7.71 to 7/A7.71.
    B. **REVISE** view number of 7/A7.71 to 8/A7.71.
    C. **ADD** dimension string to 7/A7.71 CEILING DETAIL.
15. A7.73
    A. **REVISE** 4/A7.73 for clarity
    B. **REVISE** 5/A7.73 for clarity
    C. **ADD** note “2” 2-HR RATED EXPANSION JOINT (REFER TO SPEC.)” at 3/A7.73 and add to detail.
16. A9.01
    A. **REVISE** length of linear diffuser to extend to wall on east and west walls of Engagement Hall 103.
    B. **REVISE** details to add insulated CFMF header with ACM finish above the exterior curtainwall at the perimeter of the Engagement Hall.
    C. **ADD** note “PT-3” to gypsum board wall above curtain wall head in Engagement Hall 103.
17. A9.02
    A. **REVISE** location of ENGAGEMENT HALL ½” raised brushed aluminum signage at 3/A9.02.
18. A10.10
    A. **REVISE** heights of curtain wall at exterior perimeter of Engagement Hall 103 to add insulated.
    B. **REVISE** height of electric roller shades at perimeter of Engagement Hall 103.

MECHANICAL

1. M5.00 – HVAC SCHEDULES
    A. **REVISE** the Radiation schedule manufacturer for all units from Rittling to Runtal.

FIRE PROTECTION

1. F0.00 – FIRE PROTECTION COVERSHEET
    A. **ADD** SPK-3 and SPK-4 to sprinkler usage schedule with details.
2. F1.01 - FLOOR PLAN - FIRE PROTECTION
    A. **ADD** keynote for main entrance overhang sprinkler coverage. Coverage shall be heat traced and coordinated with electrical.
    B. **ADD** additional area of work at overhangs.

C. **ADD** notes for dry side wall sprinklers to serve overhang area, piping shall be located within a conditioned space, and location should be coordinated with architectural plans.
D. **ADD** note for coordinating sprinkler pipe routing with architectural plans and that all piping shall be tight to deck.

3. F2.00 - FIRE PROTECTION DETAILS
   A. **ADD** dry sidewall - sprinkler head outside detail.

FIRE PROTECTION

1. E1.02 – FLOOR PLAN – POWER
   A. **ADD** keynote #7.
   B. **ADD** 120V connection in Main Entrance Exterior Canopy for heat trace system. Connected to 20A/1P circuit LEC-41.
2. E6.00 – ELECTRICAL PANEL SCHEDULES
   A. **ADD** to Panel LEC schedule new Heat Trace circuit load.
   B. **ADD** to Panel LEC schedule circuit keynote "*G" for GFCI circuit.

CLARIFICATIONS

1. Pre-Bid RFI
   A. Pre-Bid RFI #1: Is this a LEED project and is there any commissioning requirements included in the project scope?
      1) RESPONSE: This is not a LEED project and no commissioning is required as part of the project scope.
   B. Pre-Bid RFI #2: I see that there is a spec for intumescent fireproofing on this project, but that it is rated a type IIB construction (0 hour). Can you please let me know where the intumescent is required?
      1) RESPONSE: There is a small area of intumescent fireproofing required as part of our 2-hour separation between buildings. Refer to AC1.01, note 7 for general scope and details 1/A6.03, 4/A7.01, and 7/A7.51 for reference details.
   C. Pre-Bid RFI #3: Where the existing foundations are indicated to be saw cut 1' below grade, can those to broken down to approximately the level indicated or do they need to be cleanly saw-cut?
      1) RESPONSE: At locations of piers and foundation walls noted to be cut down 1'-0", it is acceptable to be broken down approximately 1'-0" with all loose remaining pieces removed as required to install the Slab-On-Grade overtop of the existing foundation to remain.

This addendum consists of 4 pages, excluding attachments.

END 00 90 02.

Attachments:

1. 003100, 003200, 077129, 079513.13, 079513.16, 099113, 099300, 101419
2. A1.01, A1.02, A2.02, A4.01, A6.01, A6.02, A6.03, A6.04, A7.01, A7.02, A7.03, A7.51, A7.52, A7.71, A7.73, A9.01, A9.02, A10.10
3. M5.00, F0.00, F1.01, F2.00, E1.02, E6.00

SECTION 00 31 00
BID FORM

BIDS DUE: June 5, 2025

PROVIDE DUPLICATE COPIES OF THE BID FORM WITH EACH BID PACKAGE PROPOSAL

BID PACKAGE: _____ - Contract Drawings, Project Manual & Construction Manual

Project:

McHenry County College – Engagement Hall

At:
McHenry County College
8900 Northwest Highway #14
Building A, Room 217
Crystal Lake, IL 60012

Owner:
McHenry County College
8900 Northwest Highway #14
Crystal Lake, IL 60012

Architect:
DEMONICA KEMPER ARCHITECTS
125 HALSTED ST., SUITE 301
CHICAGO IL, 60661

Submitted By:

_____ Date_____ 2025
(Name of bidder)

_____
(Address)

Attn: _____
McHenry County College
8900 Northwest Highway #14
Crystal Lake, IL 60012
(All bid envelopes must contain the project name, College of Lake County IFB# 25018, Bid Opening date & time and bid package description.)

We, the undersigned Bidder, having familiarized ourselves with the sites, the local conditions affecting the cost of the Project and the Bidding and Contract Documents, including Addenda Nos. _____, _____, _____, _____, and all Invitation to Bid Addenda and project Memos for the construction of the project "McHenry Count Collage – Engagement Hall" as prepared by Demonica Kemper Architects and other design consultants do hereby propose to provide and furnish all labor, materials, tools, equipment, utility and transportation services, scaffolding, insurance, supervision and all other services and facilities necessary, as required by said Contract Documents to complete all work as hereinafter designated, for the sum of money enumerated, the said amount, constituting the base bid.

BID SECURITY

Enclosed with this Bid is a Bid security in the form of a bid bond made payable to McHenry County College in an amount equal to ten percent (10%) of the Base Bid plus all additive alternates, in accordance with the Instructions to Bidders.

CONTRACT DOCUMENTS

The Project Manual and all Drawings including the Drawing Index, Invitation to Bid, Bid Notice, Instruction to Bidders, Supplemental Instructions to Bidders, Pepper Construction Company Construction Manual, Prevailing Wage Rate Schedule, Agreement between Owner and Construction Manager (hereinafter the Agreement), Conditions of the Contract (General and Supplementary), Drawings, Schedules, Specifications, and Addenda issued prior to execution of the Contract.

Having examined the site of the work, and having familiarized himself or herself with local conditions and existing site conditions affecting the cost of the work and with all requirements of the Contractor Documents, hereby agrees to perform all work and furnish all labor, material and equipment specifically required of him or her by the Contract Documents and such additional work as may be included as related requirements in other Divisions or Sections of the specifications, and referenced standards.

ALLOWANCES

(See "Bid Package Scope Sheets" Section 00 32 00 for Details)
The base bid includes the allowances as specified in the Project manual and Scope Sheets.

BASE BIDS

All prices quoted represent the entire cost of the project in accordance with the bidding documents, including the performance and payment bonds, and we acknowledge that no subsequent claim will be recognized for any increase in wage scales, material prices, cost or any other rates affecting the construction industry and/or this project.

The undersigned agrees to perform all work for the bid package indicated above as set forth in the bidding documents for the sum listed below:

Total Base Bid:

_____Dollars ($_____)
(Written Text Amount) (Written Numerical Amount)

ALTERNATES

The undersigned hereby proposes to furnish everything required for completion of the Alternates indicated. The following amounts for Alternate construction, as more fully described in the bid documents and Section 00 32 00 of the Construction Manual, may be added to or deducted from the Base Bid, if selected.

Acceptance of any or all of the alternates for inclusion in the contract is the sole prerogative of the Owner. All costs due to the alternates are included in the amount to be added or deducted from the base bid, so that no additional costs will be borne by the Owner due to acceptance of alternates. Each alternate bid amount entered below is for all work required for completion of the specific alternate bid as shown on the Drawings and as described in the Specifications.

Alternate pricing must be held for the entire length of the contract. The Owner maintains the right to award the alternate work prior to, during or after contract award and/or the start/completion of the Base Bid work.

Insert N/A on lines not applicable to the Bidder's area of Work. Alternates are Add Alternates only.

ALTERNATE NO. 1:

ADD to the Lump Sum Base Bid to provide on of the following systems in lieu of the Reinforced Concrete Pipe scheduled for the storm piping under the Engagement Hall and Connecting Link. Refer to civil drawings for more information.

- ALTERNATE NO. 1.A: Provide Reinforced Concrete pipe with Cured-in-Place Liner System.
  Add/Deduct $_____
- ALTERNATE NO. 1B: Provide ADS N-12 WT pipe encased in CLSM concrete.
  Add/Deduct $_____
- ALTERNATE NO. 1C: Provide ADS N-12 WT pipe in a HOBAS fiberglass casing pipe with casing spacers.
  Add/Deduct $_____

ALTERNATE NO. 2:

DEDUCT from the Lump Sum Base Bid to provide continuous wood trim in lieu of the continuous linear wall wash lights indicated at the perimeter of the Engagement Hall. Refer to architectural and electrical drawings for additional details.

Add/Deduct $_____

ALTERNATE NO. 3

DEDUCT from the Lump Sum Base Bid to provide raised concrete curbs in lieu of the seated planter walls and remove the electrical outlets, AV speakers, and F8 up-light fixtures and all associated utilities at the North Patio Area. Refer to Civil, Electrical, and Technology drawings for additional details.

Add/Deduct $_____

ALTERNATE NO.4:

DEDUCT from the Lump Sum Base Bid to remove (11) exterior light bollards and (1) exterior power bollard and all associated supports and utilities from the project scope. (8) exterior light bollards are located at the North Patio area and (3) exterior light bollards and (1) exterior power bollard are located at the south terrace. Refer to electrical drawings for additional details.

Add/Deduct $_____

ALTERNATE NO. 5:

DEDUCT from the Lump Sum Base Bid to remove all exterior tree up-light fixture and associated utilities. Refer to electrical drawings for additional details.

Add/Deduct $_____

ALTERNATE NO. 6:
DEDUCT from the Lump Sum Base Bid to remove the exterior back-lit aluminum signage and all associated utilities on the existing west brick wall at the South Entrance. Refer to architectural and electrical drawings for additional details.

Add/Deduct $_____

ALTERNATE NO. 7:
DEDUCT from the Lump Sum Base Bid to remove the recessed interior electronic window shades and all associated supports and utilities at the South and West Entrances to the Engagement Hall. Refer to architectural and electrical drawings for additional details.

Add/Deduct $_____

ALTER NO. 8:
DEDUCT from the Lum Sum Base Bid to provide painted gyp walls and ceilings in lieu of flush wood panel system at the South Entrance into the Engagement Hall. Refer to architectural drawings for additional details.

Add/Deduct $_____

ALTERNATE NO. 9:
DEDUCT from the Lump Sum Base Bid to provide painted gyp wall and ceilings in lie of flush wood panel system at West Entrance into the Engagement Hall. Refer to architectural drawings for additional details.

Add/Deduct $_____

BREAKOUT COSTS
Upon contract award, the undersigned may be required to provide additional bid breakdowns for certain portions of the Base Bid. This breakdown will be for information purposes only.

NONE

UNIT PRICES
The undersigned submits the following unit prices as a proposed basis for additive or deductive adjustment under Allowances in the event contract changes in the Work are required involving items described. It is understood and agreed that unit prices are separately subject to acceptance by the Owner and that such prices are not part of the Contract except as accepted and entered in the Agreement. Unit Prices shall include labor, materials, equipment fees, taxes, bonds, profit and overhead necessary to perform the Work described below and as specified in the Bidding Documents.

NONE

PERFORMANCE & PAYMENT BONDS

Contractors are to include the cost of Performance & Payment Bonds in all Base Bids and Alternate Bids. Performance and Payment bonds are to be in an amount equal to 100 percent (100%) of the contract value. Please provide the following information:

_____ _____

(Name of Company Furnishing Bonds) (Best Insurance Guide Latest Edition Rating)
(A,X Minimum Required)

The undersigned agrees, within 10 days after notice of acceptance of this bid, to provide required Insurance, and performance and payment bonds.

VOLUNTARY ALTERNATES / SUBSTITUTIONS

The Owner maintains the right to accept or reject any/all Voluntary Alternates or Material Substitutions. Voluntary Alternates of Material Substitutions should NOT be included in base bid lump sum.

1. _____ Deduct/Add $_____

2. _____ Deduct/Add $_____

3. _____ Deduct/Add $_____

4. _____ Deduct/Add $_____

5. _____ Deduct/Add $_____

TIME OF COMPLETIONS

If awarded the Contract, the undersigned agrees to complete all work under the Base Bid and Alternates, in accordance with the Schedule, Construction Manual Section 00 33 00.

PURCHASE ORDER TERMS AND CONDITIONS

Supplier responsible for reading and complying with the College's purchase order terms and conditions found at

_____

Initial your understanding of this requirement: _____

CONTACT WITH COLLEGE PERSONNEL / BLACKOUT PERIOD

All bidders are prohibited from making any contact (including sales calls) with the College President, Trustees, or any other official or employee of the College (collectively "College personnel") with regard to the request for bids, other than in the manner and to the person(s) designated herein until after an award has been made. The College Vice President of Business Services and Finance reserves the right to disqualify any Bidder found to have contacted College personnel in any manner with regard to the request for bid.

Additionally, if the Vice President of Business Services and Finance determines that the contact with College personnel was in violation of any provision of 720 ILCS 5/33E, the matter will be turned over to the McHenry County State's Attorney for review and prosecution.

Initial your understanding of this requirement: _____

JURISDICTION, VENUE, CHOICE OF LAW

This contract shall be governed by and construed according to the laws of the State of Illinois. Jurisdiction and venue shall be exclusively found in the **19th Judicial Circuit Court of McHenry County.**

Initial your understanding of this requirement: _____

EXPERIENCE MODIFICATION RATING (EMR)

Provide your firm's Experience Modification Rating (EMR) for the last three (3) years. Please consult your insurance agent for this information.

2022 _____ 2023 _____ 2024 _____

ADMINISTRATION OF CONTRACTS

The undersigned, in submitting this document, agrees that if the undersigned is the successful Bidder, the undersigned Bidder will accept assignment of his contract by **McHenry County College** to Pepper Construction Company and administration of the Contract by the Construction Manager (CM) and enter into a Contract with the CM according to the terms and conditions of Pepper Construction Prime Trade Agreement with Amendments, a sample of which is included in the contract documents, un-altered.

In submitting this proposal, it is hereby understood that the Owner reserves the unrestricted privilege of rejecting any or all Bids, or parts of Bids, and to waive any informalities in Bidding.

It is agreed that this proposal shall be irrevocable for a period of ninety (90) days after the specified date for receiving Bids.

_____
(Firm Name)

_____
(By)

_____ _____
(Witness) (Title)

_____ _____
(Date) (Date)

State whether a Corporation ( )
Partnership ( )
Sole Proprietorship ( )

OFFICIAL ADDRESS

_____

_____

_____ (Telephone No.) _____

BID CONTACT

_____ _____ _____
(Name) (Email) (Phone)

BID SUBMISSION CHECK LIST

Please be sure 2 COPIES AND A USB COPY OF ALL the following documents are included with your bid in a sealed envelope. If this bid form and the documents listed below are not completed in their entirety or not submitted as part of your package, the bid may be considered as not responsive / non-conforming.

- ☐ Bid Bond of 10% of the amount of the Base Bid
- ☐ 00 31 00 Bid Form – ALL PAGES Completed
- ☐ 00 40 00 Bidder's Qualification – A305 and Exhibits
- ☐ 00 41 00 Anti-Collusion Affidavit
- ☐ 00 42 00 Disqualification of Certain Bidders
- ☐ 00 43 00 Conflict of Interest
- ☐ 00 44 00 Participation Affidavit
- ☐ 00 45 00 Bid Bond Form
- ☐ 00 50 00 Contractor References
- ☐ 00 80 00 Completed BEP Participation Utilization Plan Documentation.
  - ☐ **ALL BIDDERS** Submit "BEP Utilization Plan"
  - ☐ **ALL BIDDERS** Submit "Utilization Plan Part I: Bidder/Offeror Signed Commitment"
  - ☐ **IF BDDERS MEET GOAL THROUGH SELF PERFORMANCE** submit documentation of your company's registration as certified firm.
  - ☐ **IF BIDDERS INCLUDE ANY PERCENTAGE OF PARTICIPATION** Complete and submit "Utilization Plan Part II: Subcontracting Participation Agreement."
  - ☐ **IF BIDDERS INCLUDE 0% -29%** Complete and Submit "Utilization Plan Part III: Demonstration of Good Faith Efforts to Achieve Foal and Request for Waiver"
  - ☐ **IF BIDDERS INCLUDE 0% -29%** Provide a letter on your company letter head describing your good faith efforts and why you are unable to meet the 30% goal.

MAKE SURE YOU SUBMIT 2 COPIES AND A USB COPY OF YOUR BID IN YOUR SEALED ENVELOPE

END OF SECTION 00 31 00

00 32 00 - Scope of Work

McHenry County College
Engagement Hall

05/29/2025
Pepper Construction Company

This Section Contains:

A. Scope of Work – All Bid Packages
   i. All bids for all Bid Packages must be inclusive of all requirements outlined in the All Scope of Work

B. Scope of Work – Trade Specific Bid Packages
   i. All bids must be inclusive of all requirements outlined in the trade specific Bid Packages outlined below:

      1. Demolition
      2. Excavation and Site Utilities
      3. Landscaping and Irrigation
      4. Concrete
      5. Masonry and AVB
      6. Steel
      7. General Carpentry
      8. Roofing and ACM
      9. Storefronts and Glazing
      10. Ceilings
      11. Flooring
      12. Paint
      13. Fire Protection
      14. Plumbing
      15. HVAC
      16. Electrical and Low Voltage

All SCOPE OF WORK

For

ALL BID PACKAGES

All bids for all Bid Packages must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work below:

Specifications

All Division 00 .....Procurement and Contracting Requirements

All Division 01 .....General Requirements

Bid Group	Bid Package	Scope Item	Description	
4	ALL	0.01	Each Trade Contractor shall submit one fully executed copy of AIA Document A305 "Contractor's Qualification Statement" prior to the bid due date as identified in the Notice to Bidders. Faxed submittals are acceptable. A305 document copies may be obtained from the Chicago AIA office located at 222 Merchandise Mart Plaza, Suite 1049, Chicago, IL 60654. Each Trade Contractor shall also be prequalified with Pepper Construction Company. Please visit www.pepperconstruction.com/about --> Financials Look for the "Sub Prequalification form" link to complete online which is on the left hand side about half way down the page under financial strength. Below the link you can find prequal informational PDF's for each specific office (informational packet attached). All submissions are confidential. **NEW SUBS MUST UPLOAD A W9 TO COMPLETE THE APPLICATION.** If you are an existing sub a password will need to be reset for you to access the system. Please email the request **including** your Tax ID number to prequal@pepperconstruction.com. A computer generated email/password will be sent.	
4	ALL	0.02	Each Trade Contractor shall coordinate all on-site activities including but not limited to site access, site parking, deliveries, etc. with Pepper Construction Company on-site supervision.	
4	ALL	0.03	Each Trade Contractor shall exclude any costs of required dumpsters in their bid for non-demolition related work. Dumpsters will be procured and managed by the Construction Manager. **Each TRADE CONTRACTOR shall be responsible to provide their own dumpsters for any demolition/removal work include within their trade specific scopes of work. Each TRADE CONTRACTOR is responsible to haul off all boxes and packaging from delivered material.**	
4	ALL	0.04	ALL TRADE CONTRACTORS shall be responsible for keeping scrap, debris, cleared from the construction site on a continuing basis. **T RADE CONTRACTORS will be required to list their respective dollar value for clean up on the Schedule of Values Form G703**. Each TRADE CONTRACTOR providing work during any week period will be required to furnish one person DAILY, for the needed time to clean the building as directed by the Construction Manager. If this clean up is not completed to the satisfaction of the Construction Manager, the Construction Manager will contract clean up to be done, and the TRADE CONTRACTOR will be back-charged accordingly.	
4	ALL	0.05	All Trade Contractors shall be responsible for safety for this portion of the work. Provide all necessary scaffolding, handrails, ladders, equipment, etc. necessary to perform the described work. Comply with all O.S.H.A., local, state, or federal safety authorities having jurisdiction. All contractors have read and understand P epper Construction's Job Site Safety Handbook included within the CM/Prime Trade Agreement draft included in the project manual. Refer to section 005050 in the project manual.	
4	ALL	0.06	Each Trade Contractor shall exclude tax payment of Retailers' Occupation Tax, the Service Occupation Tax (both state and local), the Use Tax and the Service Use Tax, as required by IL Law. The Tax exemption identification number issued to the McHenry	

			County College is E99950332	
4	ALL	0.07	Control line monuments will be by OTHER. All Trade Contractors shall protect and maintain all survey work by others. All Trade Contractors shall be responsible for **ALL** layout related to this Trade Contractor's work and shall coordinate this layout work with the layout of adjacent work by others.	
4	ALL	0.08	Each Trade Contractor shall conduct all contract related activities within the guidelines for phasing and scheduling established on this project. It is the responsibility of each Trade Contractor to review and accept, as part of contract, the regular and ongoing schedule updates on this project. All work is per the project Schedule dated **April 22, 2025.** This schedule may be updated by future adjustments that will become part of ALL contractors' agreement. If a date on this schedule is not meet, all cost associated with making this lost time up will be back charge to the responsible trade contractor. Each Trade Contractor shall complete a schedule for their work that coincides with the overall project schedule within two weeks after notice of award to proceed. Construction Manager's supervision is required for all work performed on-site. Contractor shall cover any additional supervision costs resulting from failure to meet the contract schedule. If contractor elects to perform work, is required to perform work to meet schedule, or indirectly forces another trade to perform work on an overtime basis, contractor shall assume costs for extra Pepper Construction supervision.	
4	ALL	0.09	The industry rule of thumb term "Use is Acceptance" will be enforced. a) When work is performed, it will be assumed this Trade Contractor has inspected and accepted the quality and coordination of the work of other trade contractors that this Trade Contractor is working on or against. b) Start of work by this Trade Contractor on top of or against any other surface means this Trade Contractor has accepted the quality and completeness of that surface. c) This Trade Contractor is responsible for preparing (i.e. cleaning) adjacent surfaces including but not limited to those surfaces completed by others prior to proceeding.	
4	ALL	0.10	ALL TRADE CONTRACTORS furnishing material for delivery and installation at any time on this project shall be responsible for the purchase and storage of that material at no additional cost to the Owner. Payment for stored material will be according to Specification.	
4	ALL	0.11	ALL TRADE CONTRACTORS shall promptly notify the Construction Manager of any damage caused to their work by another TRADE CONTRACTOR and shall be responsible to remedy their claim with the party causing the damage. Should the responsible party, within 24 hours notice, fail to remedy all damages or loss, the Construction Manager shall have the right to remedy the situation and the cost thereof will be back charged to the TRADE CONTRACTOR responsible for the damage or loss.	
4	ALL	0.12	If the work of this Trade Contractor is determined by Construction Manager to be deficient in any way this Trade Contractor understands and accepts that in-progress and/or completed work will be redone at the full expense of this Trade Contractor on a time line as established by Construction Manager.	
4	ALL	0.13	Warranty will be executed upon substantial completion of the entire project. Based on the sequencing of work this Trade Contractor understands that portions of the work may be completed well in advance of this substantial completion date. All TRADE CONTRACTORS shall provide at a minimum, 1 year labor and materials warranty from substantial completion for the project. Please review the specifications to verify if longer labor and material warranties are required. The specifications shall supersede the 2 year warranty period referenced above if specifically noted within the specifications.	
4	ALL	0.14	All TRADE CONTRACTORS are required to schedule and conduct a preliminary punch list walk through with the Construction Manager. TRADE CONTRACTORS will have an allotted time frame to complete deficiencies. TRADE CONTRACTOR is also required to conduct a final walk through with the Construction Manager and Owner and correct and complete those deficiencies within 2 weeks of final punch list. If the TRADE CONTRACTOR fails to complete punch list within allotted time frame, the Construction Manager reserves the right to hire a separate trade contractor to make the corrections to complete those punch list items not addressed and back charge the TRADE CONTRACTOR at the cost of the work.	
4	ALL	0.15	It is the responsibility of each TRADE CONTRACTOR to assure that his respective area of construction is watertight and protected from the elements, as necessary and as a result of	

			his work, throughout the construction period.	
4	ALL	0.16	All drawings, specification sections, and scopes of work should be referenced for the extent of the work under all accounts.	
4	ALL	0.17	Although Specifications are allocated to the respective "Scopes of Work", it is the intention of the Construction Manager that each TRADE CONTRACTOR read all Specification Sections, and that the Scopes of Work shall take precedence over any allocation of work made by the Architect/Engineer.	
4	ALL	0.18	All TRADE CONTRACTORS shall be responsible for repair of ruts and removal of trapped water on a continuous basis caused by the use of their motorized equipment.	
4	ALL	0.19	All TRADE CONTRACTORS shall be responsible for damage caused by the use of their motorized lifts, rolling scaffold or other elevated type equipment used on the project.	
4	ALL	0.20	All TRADE CONTRACTORS shall be responsible for cleaning mud and stone off of the tires and tracks of their vehicles and construction equipment prior to entering public roadways off of the project site. This shall be done daily by each TRADE CONTRACTOR as necessary	
4	ALL	0.21	A detailed submittal log referencing all required submittals, specification numbers, specification sections, and anticipated submission dates MUST be submitted to the Construction Manager's office within 5 business days after the date of bid opening. All submittals required for that TRADE CONTRACTOR must be submitted on or before the agreed upon anticipated submission date. **Sample O&M manuals and sample Manufacturer's warranties shall also be listed on the submittal log and submitted for review prior to substantial completion.**	
4	ALL	0.22	It is hereby acknowledged that this TRADE CONTRACTOR will provide the following primary and non-contributory insurance coverage as noted in the project manual: Please see the Prime Trade Contract sample within the project manual for insurance requirements. This TRADE CONTRACTOR has read section 10 of the Prime Trade Agreement and Exhibit C Prime Trade Contractor Insurance Requirements included within the bidding documents and understands all requirements including but not limited to insurance limits, which trades are defined as "Major Trades" and the associated insurance requirements, which endorsements will only be accepted, who is required to provide pollution insurance, etc. The required insurances must be maintained for a period of two years after project final completion. Additional Insured's shall be the McHenry County College, their respective Board members, employees, elected officials, officers or representatives, Pepper Construction Company (Construction Manager), and **Demonica Kemper Architects** (Architect).	
4	ALL	0.23	Provide sufficient equipment, material, skilled manpower, supervision and/or **premium time/shift work** (all without additional compensation) as may be required to complete the work of this Trade Contractor in accordance with the overall project substantial completion date and as referenced in the current construction schedule. **NOTE: Each TRADE CONTRACTOR is responsible to provide detailed man power schedule of all contractual activates that correlate with the overall Construction Schedule per school and per area within 10 business days after the date of the bid opening. Durations, man hours, and associated cost value represented on G703 shall also be provided for each activity.** **NOTE: This TRADE CONTRACTOR shall be responsible to pay for Pepper Site supervision for any hours required to be worked outside of 7:00 AM to 3:30 PM on Monday thru Friday.**	
4	ALL	0.24	TRADE CONTRACTOR shall be prepared to meet within one week of bid due date to conduct scope reviews, provide submittal log and discuss award of contract.	
4	ALL	0.25	Contact JULIE 72 hours minimum prior to any excavation work. Record and document all contact with JULIE including but not limited to Dig Number; present JULIE dig number and all other JULIE related documentation to the Construction Manager 24-hours minimum prior to any excavation. All JULIE documentation shall be included as part of the close out documentation. **NOTE: This TRADE CONTRACTOR shall be responsible for all costs associated with any private locates required by this TRADE CONTRACTOR. Any damage of exusting utilities, etc. shall be this TRADE CONTRACTOR'S cost to repair.**	
4	ALL	0.26	Contractors to provide all necessary signage to alert traffic or other of the work being performed and to provide all related traffic control items as shown on the drawings and/or	

			contract documents or required by state or local codes. Contractors shall provide a flagger for construction vehicles during school hours. **Any TRADE CONTRACTOR not adhering to the traffic control requirements will result in the Construction Manager bringing a flagger onsite at the cost of the TRADE CONTRACTOR(S).**	
4	ALL	0.27	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
4	ALL	0.28	The construction site hours are from **7:00 AM to 3:30 PM.** Contractors requiring off hours access shall acquire written permission in advance from the CONSTRUCTION MANAGER. Construction traffic in to and out of site is limited due to college traffic. No construction traffic will be allowed from **7:30 am to 8:30 am and 3:30 pm to 4:30 pm** during day**.** The site construction hours and traffic times are subject to change by the college and will be confirmed prior to the start of work.	
4	ALL	0.29	All TRADE CONTRACTORS shall be responsible for all temporary power needed by this TRADE CONTRACTOR.	
4	**ALL**	**0.30**	**All TRADE CONTRACTORS shall be responsible for the coordination of all work with all other contractors through the Pepper superintendent to achieve final results. The bidding documents are deigned around "basis of design" manufacturers. Each TRADE CONTRACTOR is responsible to request submittals of equipment, etc. being provide by OTHER contractors that impact the work of the contractor prior to installation, wiring, etc. to verify different requirements. All submittals can be reviewed through Autodesk. Any costs associated rework will be the responsibility of the contractor installing, wiring, etc. Trade Contractors providing material, equipment, etc. from approved manufacturer, but not the basis of design manufacturers are responsible for all costs associated with additional work created but not using the "basis of Design" manufacturers.**	
4	ALL	0.31	ALL Trade Contractors are required to send a project manager company representative to attend weekly Trade Contractors coordination and safety meetings held by the Construction Manager. Date and location to be determined.	
4	ALL	0.32	ALL Trade Contractors are required to submit a site specific safety plan and MSDS for review by Construction Manager at least 1 month prior to mobilization. No contractors will be permitted onsite without an approved Site Specific Safety Plan. Each trade foreman and all workforce MUST review the site specific safety plan onsite with the Construction Manager prior to starting work. Each tradesman MUST attend a one-hour site orientation with the Construction Manager onsite prior to beginning work unless they have already done so on a previous project with Pepper Construction and have the current safety sticker to verify completion. ALL TRADE CONTRACTORS are required to attend a site specific safety meeting and site specific quality/preinstallation meeting and provide plans for both.	
4	ALL	0.33	All Trade Contractors are required to provide all submittals electronically. Hard Copies of all samples and color selection charts shall be delivered directly to Pepper's Barrington office. All TRADE CONTRACTORS shall supply (1) set of approved construction shop drawings on-site for use by Pepper Construction and field labor MUST work from these drawings. **NOTE: Submittals MUST be provided referencing the associated specification number. Each individual submittal required per the specifications MUST be submitted as individual PDFs and not a combined file of all required. Submittals not meeting these requirements will not be reviewed and will be returned. Delays caused by not submitting correctly are the responsibility of the TRADE CONTRACTOR.**	
4	ALL	0.34	Submit Close out Documentation on material furnished, owner's manuals, and product information including maintenance and care and all items listed in the specifications. All information must be submitted as a PDF document either via email or on a disc. Submittals required for approval at the start of the Project will NOT be acceptable as close out documentation. All Close Out documentation must be "New as provided and installed" documentation. Submit Record Drawings in PDF and AutoCAD. Drawings must be stamped "Record Drawings", signed, and dated. In-progress as-built drawings MUST be maintained onsite-during construction. Executed Warranty & Guarantee letters will be submitted with the required documentation as PDF files. Warranty must commence from Project Substantial Completion date, and not when the TRADE CONTRACTOR's work is complete or when equipment is started up. All warranties must be 1 year, or as specified in the specifications	

			(whichever is greater) from substantial completion on workmanship and materials. ACM letters will be submitted with the required documentation as a PDF file. All training manuals must be submitted and training sessions scheduled, per owner's direction, before substantial completion. O&M manuals should be treated as the training meeting agendas. TRADE CONTRACTOR shall submit a sign in sheet of attendees present during the meeting. The TRADE CONTRACTOR is responsible to **video tape** all training sessions and submit video files with closeout. All attic stock required in the specifications must be delivered, inventoried with Pepper's superintendent, and placed in a secure location within the building as directed by the Owner. Attic stock not signed off by Pepper Construction will not be considered received. All keys MUST be submitted to Pepper Construction as a formal submittal. Keys left onsite or not transmitted to Pepper will not be considered received. If required per the specifications, maintenance agreements must be accompanied with the closeout documents. Closeout information and attic stock MUST be provided within two weeks of the substantial completion date. **Sample O&M manuals and Manufacturer's warranties MUST be submitted for review prior during the submittal process and not just submitted with closeout.**	
4	ALL	0.35	ALL TRADE CONTRACTORS shall be responsible for all work required by them for installation of their products but not shown on the bid documents. All costs associated with this work shall be the responsibility of the contractor requiring the work. This TRADE CONTRACTOR shall include in this bid all cost for work that is reasonably inferred from the drawings, specifications, and trade specific scopes of work.	
4	ALL	0.36	All TRADE CONTRACTORS shall be responsible for all testing, preinstallation meetings, and quality control listed in the specifications.	
4	**ALL**	**0.37**	**All TRADE CONTRACTORS are responsible for all requirements listed in the A201 General Conditions of the Contract for Construction, and the Prime Trade Contract for Public Work. All TRADE CONTRACTORS will agree to sign the Prime Trade Agreement as provided in Section 005000 in the specifications with no modification.**	
4	ALL	0.38	All TRADE CONTRACTORS shall be responsible for all information included in the specifications. There are no exclusions allowed and any substitutions must be pre-approved by the architect of record.	
4	ALL	0.39	ALL TRADE CONTRACTORS are responsible for meeting the current Illinois Department of Labor Prevailing Rates and Hourly Wages for McHenry County. ALL TRADE CONTRACTORS are responsible for keeping all certified payroll documents for a minimum of 3 years or as dictated by the Illinois statute, whichever is longer.	
4	ALL	0.40	All TRADE CONTRACTORS MUST provide Performance and Payment bonds to Construction Manager within 10 days of the contract award. Refer to specifications for bond requirements.	
4	ALL	0.41	All TRADE CONTRACTORS are responsible to fill out daily activity reports which include all work completed and man power onsite.	
4	ALL	0.42	All TRADE CONTRACTORS that require the use of a crane shall have onsite coordination meeting with Construction Manager 48 hours prior to crane showing up onsite. Due to location and limited construction site, larger than anticipated crane's may be needed for specific lifts and shall be at the expense of this TRADE CONTRACTOR.	
4	ALL	0.43	For work that is required in the existing buildings/areas that are still occupied, considerations for overtime must be included in this bid to perform the work off-hours. If the work corresponds with planned non-attendance days, then the work may be coordinated with the school and the Construction Manager. Refer to school schedule, construction schedule, and scopes of work for this possibility.	
4	ALL	0.44	Indoor air quality requirements must be met and monitored (i.e. no gas-powered vehicles).	
4	ALL	0.45	All TRADE CONTRACTORS are encouraged to visit the site prior to submitting bid to verify existing conditions which will affect his work.	
4	ALL	0.46	All TRADE CONTRACTORS are to provide a fire watch and incorporate the use of fire blankets during cutting operations and be responsible for any damage due to falling spark and also provide smoke eaters in area during work operations.	
4	ALL	0.47	Proper procedures (Critical Dig Procedures) for underground work must be followed. This includes a meeting to develop a Critical Dig Plan and location and protection of all existing utilities prior to start of work. Private locates are the responsibility of the	

			contractor performing the work. Any repairs related to damage caused to any underground materials are the responsibility of the contractor performing the underground work.	
4	ALL	0.48	All TRADE CONTRACTORS will be required to complete trade item checklists as a part of the Construction Manager's Job Specific Quality Plan throughout construction.	
4	ALL	0.49	Proper procedures for slab removal must be followed. This includes slab x-ray, scoring of existing slab, and jack hammering for complete removal. Repairs related to damage caused to any underground materials are the responsibility of the contractor performing the slab removal.	
4	ALL	0.50	All TRADE CONTRACTORS are responsible to check with local authorities for street load limitations and obtain any permits required to complete the work as planned in the bid documents.	
4	All	0.51	Prior to starting work, each Trade Contractor needs to provide a letter confirm that each individual has passed drug screening within the six (6) months prior to the start of work is also required. Testing by the hall is acceptable if that individual is specifically tested. If hall has random testing, but that individual has not been tested within that 6 month time period, then the trade contractor will be responsible to have them tested prior to beginning of any work at the trade contractor's expense. It is advisable to have your personnel tested well prior to work to avoid any delay. Any falsification of drug screening testing documentation would result in trade contractor being liable for any issues that arise.	

SCOPE OF WORK
For
BID PACKAGE 1

Demolition

All bids for the Demolition Bid Package 1 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

All Division 2 .....Existing Conditions

Bid Group	Bid Package	Scope Item	Description	
1	Demolition	1.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.**	
1	Demolition	1.02	This TRADE CONTRACTOR shall be responsible to provide Contractor's Pollution Liability Insurance. Please see Exhibit C for Insurance Requirements included in the project manual.	
1	Demolition	1.03	This TRADE CONTRACTOR shall be responsible for taking appropriate measures to protect existing conditions including but not necessary limited to perimeter landscaping, fencing, curbs, gutters, parking lot surfaces, drives and walks, buildings, etc. not required to be removed in the contract documents.	
1	Demolition	1.04	This TRADE CONTRACTOR shall include all costs and work required to acquire the necessary permits required for demo.	
1	Demolition	1.05	This TRADE CONTRACTOR shall be responsible for all layout work, measuring and field dimensioning associated with this Trade Contractor's work.	
1	Demolition	1.06	This TRADE CONTRACTOR shall be responsible for applications, inspection coordination, scheduling, testing and all things required for satisfying the requirements of local code enforcement inspection services. This TRADE CONTRACTOR to submit verification of conversations, inspections, and/or approvals to Construction Manager within 72 hours of said occurrence.	
1	Demolition	1.07	This TRADE CONTRACTOR shall furnish all required dumpsters for the demolished materials and shall haul off in a timely manner. Dumpster locations are to be determined by Construction Manager. This TRADE CONTRACTOR shall be responsible for any associated hauling and disposal fees. This TRADE CONTRACTOR shall make efforts to recycle demolished materials.	
1	Demolition	1.08	This TRADE CONTRACTOR shall be responsible for all work associated with providing Pepper Construction a site specific safety plan fully addressing issues including but not limited to occupants of existing building, equipment to be used, dust and noise control, etc. based on active school being in session. This TRADE CONTRACTOR shall comply with all OSHA, local, state, and federal safety codes applicable to the demolition work.	

SCOPE OF WORK
For
BID PACKAGE 2

Excavation and Site Utilities

All bids for the Excavation and Site Utilities Bid Package 2 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

Division 2 .....Existing Conditions
Division 31 .....Earthwork
Division 33 .....Utilities

Bid Group	Bid Package	Scope Item	Description	
1	Excavation and Site Utilities	2.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.**	
1	Excavation and Site Utilities	2.02	This TRADE CONTRACTOR shall be responsible for taking appropriate measures to protect existing conditions including but not necessarily limited to perimeter landscaping, curbs, gutters, drives and walks, buildings, light poles, hydrants, etc. from damage that may be caused by this work.	
1	Excavation and Site Utilities	2.03	This TRADE CONTRACTOR shall be responsible for all mass grading, earth moving, excavation, rough grading, fine grading of sub-grade (to +/- 0.1 foot), re-spread, hauling, importing, final grade, backfill, and compaction, etc. under sidewalks, curbs, gutters, asphalt, pads, and detention ponds as shown on the drawings and specifications, to achieve the final working subgrade. **NOTE:** This TRADE CONTRACTOR shall be responsible to bring any VOIDS left in the site from removals to fine grade. This TRADE CONTRACTOR shall leave sod restoration areas, including stone removal, at fine grade for the sod to be installed per the allowance below.	
1	Excavation and Site Utilities	2.04	This TRADE CONTRACTOR shall provide all necessary signage to alert traffic or other of the work being performed and to provide all related traffic control and flagging items as shown on the drawings and/or contract documents	
1	Excavation and Site Utilities	2.05	This TRADE CONTRACTOR shall be responsible to provide its own project layout according to the drawings, considering the benchmarks locations that will be given by the Construction Manager. This TRADE CONTRACTOR shall protect and maintain all survey stakes.	
1	Excavation and Site Utilities	2.06	This TRADE CONTRACTOR shall be responsible for topsoil and/or non-topsoil stockpiling and management/maintenance thereof for all excavation spoils by this TRADE CONTRACTOR. This TRADE CONTRACTOR shall be aware of site stockpiling limitations onsite as reflected on the bid documents and/or site logistics plan and the construction schedule sequencing and shall haul material offsite and import material as required due to the phasing of the project. If proposing	

			to stockpile onsite, this TRADE CONTRACTOR shall also include costs for site fencing, erosion control measures, and site restoration if proposing to store on site. Contractor to propose a stockpiling strategy as an attachment to the bid form at the time of bid. Any stockpiling onsite must be approved by the Construction Manager. This TRADE CONTRACTOR shall be responsible to remove and haul off all spoils generated by this scope of work an orderly manner from the jobsite if it cannot be reused when restoring the site.	
1	Excavation and Site Utilities	2.07	This TRADE CONTRACTOR shall be responsible for scheduling of all required testing for compaction, etc. This TRADE CONTRACTOR shall be responsible for adherence with all testing procedures and/or Geo-Technical Engineering findings and recommendations. Testing by the CONSTRUCTION MANAGER. This TRADE CONTRACTOR has read and understands all responsibilities of these reports and is responsible for all remediation and relocating excavated materials onsite as required. This TRADE CONTRACTOR shall provide any necessary lifts/proof rolling to complete scope of work to meet the proper compaction of sub-grade and/or backfill materials.	
1	Excavation and Site Utilities	2.08	This TRADE CONTRACTOR shall be responsible for all public access (streets, roads, aprons, curb-cuts, sidewalks, roads, etc) maintenance on a daily basis and for the duration of all on site activities that is clear of dirt, dust, debris, mud, stones, rocks, sediment and/or project related materials of any kind caused by this TRADE CONTRACTOR.	
1	Excavation and Site Utilities	2.09	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Excavation and Site Utilities	2.10	This TRADE CONTRACTOR shall contact JULIE 72 hour minimum prior to any excavation work. Record and document all contact with JULIE including but not limited to Dig Number; present JULIE dig number and all other JULIE related documentation to the Construction Manager 24-hours minimum prior to any excavation. All this JULIE documentation shall be included as part of the close out documentation. **NOTE: This TRADE CONTRACTOR shall be responsible for private locates on all sites as required by this TRDAE CONTRACTOR'S work.**	
1	Excavation and Site Utilities	2.11	This TRADE CONTRACTOR is responsible for all permits, and fees required for the completion of his/her work.	
1	Excavation and Site Utilities	2.12	This TRADE CONTRACTOR shall provide all trucking of imported and exported materials as required by Construction Documents and pay all dump fees.	
1	Excavation and Site Utilities	2.13	This TRADE CONTRACTOR shall include all dewatering costs associated with the work	
1	Excavation and Site Utilities	2.14	As-built drawings must be submitted to the Construction Manager for review and approval following the construction of this building, within 2 weeks of substantial completion. As-built drawings must include the following drawings at a minimum: Dimension Plan and Grading Plan plus all site utility/plumbing work. As-Built is also required for the detention basin if applicable. The as-builts shall indicate the design information with a line through the text and the as-built elevation written next to it. Should the information be constructed as designed, the text shall be circled, indicating full compliance. As-built information is expected to be provided for the following items at a minimum: Spot elevations and contours. Hand written as-builts will not be accepted. As-builts shall be submitted in AutoCAD and PDF.	
1	Excavation and Site Utilities	2.15	This TRADE CONTRACTOR shall be responsible for all work associated with all SWPPP Legend items and SWPPP Notes. This TRADE CONTRACTOR shall be responsible for all work associated with the furnish, install, maintenance, and removal of silt fence.	
1	Excavation and Site Utilities	2.16	This TRADE CONTRACTOR shall provide silt screen over all inlets to prevent clogging of underground piping, and be responsible to remove at substantial completion.	
1	Excavation and Site Utilities	2.17	This TRADE CONTRACTOR shall provide and comply with all life safety OSHA standards and Pepper Construction's Safety procedures.	
1	Excavation and Site Utilities	2.18	This TRADE CONTRACTOR shall be responsible for all work GPUP requirements. Please see PCC Safety plan for additional information.	

1	Excavation and Site Utilities	2.19	**ALLOWANCE**: This TRADE CONTRACTOR shall include $25,000 in the base bid for removal of unsuitable soils as determined by the Soils Engineer. **NOTE: The cost of coordination, supervision, overhead, and profit for any such work shall be included in the bidder's cost, as it is not included in this listed allowance value. All allowance work will be completed only in the direction of PCC. All allowances not expended will be returned to the Owner 100%.**	

SCOPE OF WORK

For

BID PACKAGE 3

Landscaping and Irrigation

All bids for the Landscaping and Irrigation Bid Package 3 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

32 92 23 .....Sodding

Bid Group	Bid Package	Scope Item	Description	
1	Landscaping and Irrigation	3.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.**	
1	Landscaping and Irrigation	3.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Landscaping and Irrigation	3.03	This TRADE CONTRACTOR shall be responsible for all layout work, field measuring, and field dimensioning associated with this Trade Contractor's work.	
1	Landscaping and Irrigation	3.04	This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of all trees, shrubs, grass, perennials, detention seed, mulch, plant bed material, and sod as shown on sheet L-100 and through the bid documents.	
1	Landscaping and Irrigation	3.05	This TRADE CONTRACTOR shall be responsible for all work in all details and all General Notes on sheet L-101.	
1	Landscaping and Irrigation	3.06	This TRADE CONTRACTOR shall be responsible to import all needed topsoil and fine grading.	
1	Landscaping and Irrigation	3.07	This TRADE CONTRACTOR shall be responsible for all irrigation work. This TRADE CONTRACTOR shall install empty sleeves for future irrigation at all planted beds.	

1	Landscaping and Irrigation	3.08	**ALLOWANCE**: This TRADE CONTRACTOR shall include $15,000 in the base bid for misc site restoration. **NOTE: The cost of coordination, supervision, overhead, and profit for any such work shall be included in the bidder's cost, as it is not included in this listed allowance value. All allowance work will be completed only in the direction of PCC. All allowances not expended will be returned to the Owner 100%.**	

SCOPE OF WORK
For
BID PACKAGE 4

Concrete

All bids for the Concrete Bid Package 4 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

031000…….Concrete Formwork
031000…….Concrete Forming and Accessories
032000…….Concrete Reinforcement
033000…….Cast-In-Place Concrete
321313…….Concrete Paving
321726…….Tacctile Warning Surface

Bid Group	Bid Package	Scope Item	Description	
1	Concrete	4.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Release may be updated by future adjustments that will become part of said contractors' agreement. **NOTE:** This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.	
1	Concrete	4.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Concrete	4.03	This TRADE CONTRACTOR shall be responsible to provide Contractor's Pollution Liability Insurance. Please see Exhibit C for Insurance Requirements included in the project manual.	
1	Concrete	4.04	This TRADE CONTRACTOR shall be responsible for all layout work, field measuring, and field dimensioning associated with this Trade Contractor's work.	
1	Concrete	4.05	This TRADE CONTRACTOR shall provide and comply with all life safety OSHA standards and	

			Pepper Construction's Safety procedures.	
1	Concrete	4.06	This TRADE CONTRACTOR shall be responsible for taking appropriate measures to protect existing conditions including but not necessarily limited to perimeter landscaping, curbs, gutters, drives and walks, buildings, light poles, hydrants, etc. from damage that may be caused by this work.	
1	Concrete	4.07	This TRADE CONTRACTOR shall be responsible for scheduling of all required testing for compaction, etc. This TRADE CONTRACTOR shall be responsible for adherence with all testing procedures and/or Geo-Technical Engineering findings and recommendations. Testing by the OWNER. This TRADE CONTRACTOR has read and understands all responsibilities of these reports and is responsible for all remediation and relocating excavated materials onsite as required. This TRADE CONTRACTOR shall provide any necessary lifts/proof rolling to complete scope of work to meet the proper compaction of sub-grade and/or backfill materials. All concrete testing costs will be paid by the OWNER. This TRADE CONTRACTOR shall be responsible to coordinate all testing and provide required cylinders, etc.	
1	Concrete	4.08	This TRADE CONTRACTOR shall be responsible for all public access (streets, roads, aprons, curb-cuts, sidewalks, roads, etc.) maintenance on a daily basis and for the duration of all on site activities that is clear of dirt, dust, debris, mud, stones, rocks, sediment and/or project related materials of any kind caused by this TRADE CONTRACTOR.	
1	Concrete	4.09	This TRADE CONTRACTOR shall provide a concrete washout box and coordinate location with PCC superintendent. This TRADE CONTRACTOR shall include haul away and removal from the project site.	
1	Concrete	4.10	Once mobilized, THIS CONTRACTOR shall be responsible for dewatering of casual/rainwater until entire installation is completed. This scope is based on this subcontractor being able to utilize a standard pump (up to 6") with a 2" discharge. Dewatering discharge to be handled by this TRADE CONTRACTOR in accordance with all state and local requirements.	
1	Concrete	4.11	This TRADE CONTRACTOR is responsible for all permits, and fees required for the completion of this work.	
1	Concrete	4.12	This TRADE CONTRACTOR shall be responsible to provide all required accelerators and add-mixtures for cold weather concrete pouring according to ACI Standards. Winter blankets shall be included, when required.	
1	Concrete	4.13	This TRADE CONTRACTOR shall provide silt screen over all inlets to prevent clogging of underground piping, and be responsible to remove at substantial completion.	
1	Concrete	4.14	This TRADE CONTRACTOR shall be responsible for all work associated with providing As-Built drawings of anchor bolts and spot checks of heights at top of foundations.	
1	Concrete	4.15	This TRADE CONTRACTOR shall be responsible for providing any temporary bulkheads, edge forms, shoring, etc. as required for the proper completion of this TRADE CONTRACTOR'S work. This TRADE CONTRACTOR shall be responsible for all stair concrete toppings and tread infills.	
1	Concrete	4.16	This TRADE CONTRACTOR shall be responsible to furnish and install all new concrete including footings, thickened footings as required, foundations walls, grade beams, piers, shear walls, elevator pits, columns concrete slab on grade, slab on metal deck, elevated slabs, elevated beams, toppings, thickened slabs as required by bid documents.	
1	Concrete	4.17	This TRADE CONTRACTOR shall include minor excavation (footing trim) required to maintain footing depth and thickness.	
1	Concrete	4.18	This TRADE CONTRACTOR shall provide specified brick ledge as shown on bid documents for all foundation wall work. Any modifications to foundation wall thicknesses must be reviewed and approved by structural engineer and coordinated with enclosure subcontractors (masonry, curtainwall, EIFS, partitions, etc.) prior to placement.	
1	Concrete	4.19	This TRADE CONTRACTOR shall provide grouting of all base plates. All non-shrink grout intended for steel work, whether noted or not, shall be furnished and installed by this TRADE CONTRACTOR. Steel to be furnished and installed by the STEEL CONTRACTOR.	
1	Concrete	4.20	This TRADE CONTRACTOR shall complete flatness and levelness testing prior to removing formwork.	
1	Concrete	4.21	This TRADE CONTRACTOR shall furnish and install site concrete per sizes, profiles, details for curbs, gutters, sidewalks, stamped concrete, etc.as shown throughout the bid documents.	
1	Concrete	4.22	This TRADE CONTRACTOR shall be responsible for the furnish and install of slab on grade vapor retarder.	
1	Concrete	4.23	This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of all dampproofing and waterproofing.	
1	Concrete	4.24	All stone by excavator.	

SCOPE OF WORK
For
BID PACKAGE 5

Masonry and AVB

All bids for the Masonry and AVB Bid Package 5 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

Div 4.....Masonry
074265……Thermal and Air Barrier System
079200 .....Joint Sealants
123623.13……Plastic-Laminate-Clad Countertops
123661.16……Solid Surfacing Countertops

Bid Group	Bid Package	Scope Item	Description	
1	Masonry and AVB	5.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.**	
1	Masonry and AVB	5.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Masonry and AVB	5.03	This TRADE CONTRACTOR shall be responsible to provide Contractor's Pollution Liability Insurance. Please see Exhibit C for Insurance Requirements included in the project manual.	

1	Masonry and AVB	5.04	This TRADE CONTRACTOR shall be responsible for all layout work, measuring and field dimensioning associated with this Trade Contractor's work. Construction Manager will provide building offsets. All other engineering or layout as required to complete this scope of work is the sole responsibility of this TRADE CONTRACTOR.	
1	Masonry and AVB	5.05	This TRADE CONTRACTOR shall be responsible for furnishing and installing all reinforcing requirements, including reinforcing bars, dowels, wall ties, straps, anchors, and other items required for completion of contractors work.	
1	Masonry and AVB	5.06	This TRADE CONTRACTOR shall be responsible to install all masonry wall embeds and lintels.	
1	Masonry and AVB	5.07	This TRADE CONTRACTOR shall be responsible for all rigid insulation, thru-wall flashing, caulking/ filler/ sealant/backer rod, and weep vents as required for this TRADE CONTRACTOR'S work	
1	Masonry and AVB	5.08	This TRADE CONTRACTOR shall be responsible for all tooled joints in all exposed masonry work as required.	
1	Masonry and AVB	5.09	This TRADE CONTRACTOR shall be responsible for all expansion and/ or control joints required, including expansion/ control joint fillers/ sealant/soft joints shown throughout the bid documents and as required. NOTE: This TRADE CONTRACTOR shall be responsible to submit a control joint shop drawing **for review and approval by the architect prior to proceeding with the installation.**	
1	Masonry and AVB	5.10	This TRADE CONTRACTOR shall be responsible to review all demolition drawings and patch all areas where items are removed from existing masonry walls.	
1	Masonry and AVB	5.11	This TRADE CONTRACTOR will maintain streets, sidewalks, and roads, free from debris and waste material resulting from their operation in accordance with local regulations and Contractor staff. This TRADE CONTRACTOR will assume all responsibility for any permits required for hauling and / or trucking of material required for this scope of work. This TRADE CONTRACTOR to contact the City having jurisdiction over this site for information on all trucking routes and permit information. This TRADE CONTRACTOR will comply with all regulations concerning dust control, clean tires, traffic control, etc. as it relates to the hauling of material for this scope of work.	
1	Masonry and AVB	5.12	This TRADE CONTRACTOR will replace and repair, at no additional cost, any construction damaged by this TRADE CONTRACTOR's field operations and/or personnel.	
1	Masonry and AVB	5.13	This TRADE CONTRACTOR shall be required to provide a mockup onsite for approval by the designer/owner as stated in the specification.	
1	Masonry and AVB	5.14	This TRADE CONTRACTOR shall be responsible for all work associated with all required masonry cleaning. This TRADE CONTRACTOR shall be responsible to properly rub and scrape new CMU walls in preparation of receiving other finish product.	
1	Masonry and AVB	5.15	This TRADE CONTRACTOR shall provide all compressible filler where CMU butts steel members as indicated.	
1	Masonry and AVB	5.16	This TRADE CONTRACTOR shall provide labor and material to assist Owner's testing agency.	
1	Masonry and AVB	5.17	This TRADE CONTRACTOR shall furnish and install fire-resistive joint system to all head-of-wall joints and control joints at fire rated masonry partitions including all misc. components (Pleates, angles, sealants, compounds, stabilizing anchors, batt insulation, etc.). Provide UL assemblies at fire rated walls as needed. NOTE: Any caulking required where new masonry abuts existing is by this CONTRACTOR.	
1	Masonry and AVB	5.18	NOTE: This TRADE CONTRACTOR shall be responsible for patching into existing masonry walls where new walls tie into the existing building.	
1	Masonry and AVB	5.19	Lintels are furnished by the STEEL CONTRACTOR and received, inventoried and installed by this TRADE CONTRACTOR.	
1	Masonry and AVB	5.20	ALL Air and Weather Barrier is by this TRADE CONTRACTOR. This TRADE CONTRACTOR shall include 3 mobilizations.	

SCOPE OF WORK

For

BID PACKAGE 6

Steel

All bids for the Steel Bid Package 6 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

051223 .....Structural Steel
053100 .....Steel Deck

Bid Group	Bid Package	Scope Item	Description	
1	Steel	6.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Release may be updated by future adjustments that will become part of said contractors' agreement. **NOTE:** This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.	
1	Steel	6.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	

1	Steel	6.03	This TRADE CONTRACTOR shall be responsible to provide Contractor's Pollution Liability Insurance. Please see Exhibit C for Insurance Requirements included in the project manual.	
1	Steel	6.04	This TRADE CONTRACTOR shall be responsible for all layout work, field measuring, and field dimensioning associated with this Trade Contractor's work.	
1	Steel	6.05	This TRADE CONTRACTOR shall provide and comply with all life safety OSHA standards and Pepper Construction's Safety procedures.	
1	Steel	6.06	This TRADE CONTRACTOR shall provide all necessary lifts/scaffolds to reach all areas required by this scope of work. This TRADE CONTRACTOR shall provide all manpower, tools, equipment, accessories, and hoisting required to complete its scope of work. Including any on site storage for this TRADE CONTRACTORS materials and equipment.	
1	Steel	6.07	This TRADE CONTRACTOR shall perform daily clean-up operations and shall comply with all Pepper and OSHA safety requirements especially including but not limited to PPE and fall protection.	
1	Steel	6.08	This TRADE CONTRACTOR to provide sufficient equipment, material, skilled manpower, supervision, and/or premium time/shift work (all without additional compensation) as may be required to complete the work of this Trade Contractor in accordance with the overall project schedule.	
1	Steel	6.09	This TRADE CONTRACTOR will replace and repair, at no additional cost, any construction damaged by this TRADE CONTRACTOR's field operations and/or personnel.	
1	Steel	6.10	The fabricator, erector and decker must agree to the Instruction to Bidders document which specifically requires 100% fall protection at 15' and above.	
1	Steel	6.11	Erector must complete the Project Safety Plan for Steel Erection with the Pepper Safety Dept. prior to job start.	
1	Steel	6.12	All ironworkers must receive training in and be knowledgeable of the specific requirements of the Project Safety Dept. prior to beginning work.	
1	Steel	6.13	This TRADE CONTRACTOR shall furnish all labor, material, tools, equipment, etc. as required to provide a full and complete building miscellaneous steel package as shown in the bid documents.	
1	Steel	6.14	This TRADE CONTRACTOR shall be responsible for all shop drawings and calculations, indicating embed design, embedded layout connection and connection details, other structural and miscellaneous iron items, etc. with stamped certification and seal of a licensed structural engineer in the State of Illinois. Any dimensional or verification questions will not be an acceptable excuse for the delaying the shop drawing process. Any dimensional questions or verification items will be answered during the shop drawing review process.	
1	Steel	6.15	This TRADE CONTRACTOR shall be responsible for all field welding, bolts, washers, expansion anchors and ancillary materials required for the miscellaneous and structural steel connections indicated in the contract documents.	
1	Steel	6.16	All materials are to be finished with a shop primed finish unless otherwise noted	
1	Steel	6.17	**Testing:** Adhere to all testing procedures and/or findings and recommendations. All costs associated with all required testing according to the ASTM standards and to the division 5 specification sections are by the owner. This TRADE CONTRACTOR shall be responsible for adherence with all testing procedures and/or findings and recommendations.	
1	Steel	6.18	This TRADE CONTRACTOR is responsible to coordinate with the HVAC CONTRACTOR for layout of all misc. steel. This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of all HVAC equipment support steel. This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and delivery of all lintels to the MASONRY contractor.	

SCOPE OF WORK
For
BID PACKAGE 7

General Carpentry

All bids for the General Carpentry Bid Package 7 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

034900……Glass-Fiber Reinforced Concrete
054000……Cold Formed Metal Framing
Div 6……Wood, Plastics, and Composites
078100……Applied Fire Protection
078123……Intumescent Fire Protection
079200……..Joint Sealants
0799513.13……Interior Expansion Joint Cover Assemblies
0799513.19……Exterior Expansion Joint Cover Assemblies
081113.....Hollow Metal Doors and Frames

081416……..Flush Wood Doors
087100…….……Door Hardware
092116.23…….……Gypsum Board Shaft Wall Assemblies
092216…….……Non Structural Metal Framing
092900…….……Gypsum Board
Div 10……Specialties
Div 12……Furnishings
321123……Aggregate Base Course
321216…….……Asphalt Paving

Bid Phase	Bid Package	Scope Item	Description	
1	General Carpentry	7.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics plan and Construction Schedule included within the project manual.**	
1	General Carpentry	7.02	This TRADE CONTRACTOR shall be responsible to provide **Contractor's Pollution Liability Insurance.** Please see section 11.1.5 of the Sample Prime Trade Agreement included in section 005200 of the project manual.	
1	General Carpentry	7.03	This TRADE CONTRACTOR is responsible for all layout work, measuring and field dimensioning associated with this TRADE CONTRACTOR'S work.	
1	General Carpentry	7.04	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	General Carpentry	7.05	This TRADE CONTRACTOR shall be responsible for furnishing, lay-out, and installation of all required blocking and framing at mechanical, electrical, and plumbing through wall penetrations; at all roof curbs, roofing including parapet nailers and coping along the entire perimeter of the roof parapet, doors, windows, soffits, canopies, skylights/smoke vents, toilet accessories and partitions, drinking fountains, lockers, grab bars, casework, window sills, visual display boards, and display cases based on proper construction. This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of all wood blocking/backing as shown on the drawings. All Roof Blocking, sheathing, etc is by this TRADE CONTRACTOR.	
1	General Carpentry	7.06	This TRADE CONTRACTOR shall complete all pre-construction due-diligence required for the work of this trade contractor including but not limited to verification of adequacy and location of blocking/backing for attachments and installation, proper clearances, floor/wall/ceiling/equipment and device locations.	
1	General Carpentry	7.07	This TRADE CONTRACTOR shall provide clean cut, and tight trim edging for preparation of the painting trade contractor finishes. It is this TRADE CONTRACTOR who will provide all the necessary filler/caulk of his/her finished work.	
1	General Carpentry	7.08	This TRADE CONTRACTOR shall include all Wall/Partition Gypsum Board assemblies including but not necessarily limited to all light gauge metal framing, light gauge metal framing slip connections, light gauge metal framing deflection connection, all related bracing, all related light gauge bridging, all required insulation, all walls/partitions gypsum board furring, all types of gypsum board, metal stud kickers where required, fire rated drywall partition assemblies, caulking, gypsum board expansion joint covers, water resistant gypsum backing board, drywall finishing, furring channels, fire retardant furring, drywall sills, corner guards, all drywall partition types, drywall ceilings, abuse/impact resistant drywall, break metal, etc. All work according to the drawings and construction documents.	
1	General Carpentry	7.09	This TRADE CONTRACTOR is responsible to furnish and Install all full height,	

			full width interior and/or exterior Carpentry related sealants, caulking, and fire caulking/safing, including but not necessarily limited to sealant/caulking of joints as part of this trade contractors work where indicated and/or required, including where the work of this trade contractor intersects dissimilar materials (i.e. drywall to masonry, drywall to precast, plaster to masonry, gypsum board to masonry, plaster to gypsum board, plastic laminate to plaster, plaster laminate to masonry, plastic laminate to gypsum board, gypsum board to glass block, and any material provided by this TRADE CONTRACTOR with any other material, etc.) Sealant and caulking shall comply with the fire rating requirements of the wall where installed. This TRADE CONTRACTOR shall be responsible for all caulking for items this TRADE CONTRACTOR installs.	
1	General Carpentry	7.10	**Casework:** **This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of ALL casework and millwork and wood wall panels.** **NOTE: This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of all blocking required for the installation of the casework/millwork scope required, but not shown on the bid documents.**	
1	General Carpentry	7.11	**Drywall and Soffits:** **This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of all framing, insulation, drywall, taping etc as shown throughout the bid documents for walls, ceilings, soffits, etc.**	
1	General Carpentry	7.12	**Doors, Frames and Hardware** **This TRADE CONTRACTOR is responsible for furnishing, unloading, inventory, and distribution of wood doors, HM doors, HM frames and hardware furnished by the Doors/Frames/Hardware CONTRACTOR.** **This TRADE CONTRACTOR shall attend hardware coordination meeting(s) held between Owner, Architect, Supplier and Construction Manager. This TRADE CONTRACTOR shall attend keying meeting held between Owner, Architect, Supplier and Construction Manager. This TRADE CONTRACTOR shall be responsible for the installation of permanent cores per final keying information. The DOORS/FRAMES/HARDWARE CONTRACTOR shall be responsible to provide all cores and keys. This TRADE CONTRACTOR shall receive all cores and install prior to substantial completion.** **TRADE CONTRACTOR shall provide blocking as required at all jambs and shall caulk all HM frames prior to painting. All glass in doors and frames is by the Storefronts Contractor.**	
1	General Carpentry	7.13	**Wood Timbers** **This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of ALL wood timbers and accessories.**	
1	General Carpentry	7.14	**Asphalt:** **This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of ALL asphalt and stone.**	
1	General Carpentry	7.15	**Spray Fireproofing:** **This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of ALL fireproofing**	

SCOPE OF WORK

For

BID PACKAGE 8

Roofing and ACM

All bids for the Roofing and ACM Bid Package 8 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

Division 7 .....Thermal and Moisture Protection

Bid Group	Bid Package	Scope Item	Description	
1	Roofing and ACM	8.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement.	
1	Roofing and ACM	8.02	NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.	
1	Roofing and ACM	8.03	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Roofing and ACM	8.04	This TRADE CONTRACTOR shall be responsible for temporary protection of this TRADE CONTRACTOR'S material whether installed or not. This TRADE CONTRACTOR shall properly protect the roofing system at the end of each workday and upon completion of the work to ensure moisture does not penetrate the roofing system.	
1	Roofing and ACM	8.05	This TRADE CONTRACTOR shall furnish and install all roofing of the project and related assemblies, including but not limited to: all roof membranes, all required roof blocking, crickets, saddles, scuppers, all required roof vapor barrier, all roofing pads, all flashing and counter flashing, coping, all gutters/downspouts, steel pipe downspouts, splash blocks termination bars, all sheet metal associated with the roofing, all roof expansion joints, and all roof system fasteners as required to provide manufacturer's warranty. **NOTE: All roof wood and blocking associated with the LMC addition is by the GENERAL CARPENTER. All roof wood and blocking associatred with the 1966 building and 2000 addition are to be furnished and installed by this TRADE CONTRACTOR.**	
1	Roofing and ACM	8.06	This TRADE CONTRACTOR shall furnish and install all work required for all roof curbs and parapet walls, including but not necessarily limited to, all bonding adhesives, flashing membranes, pre-finished metal coping, all fasteners, splicing cement, lap sealant, and other roofing materials not specifically mentioned.	
1	Roofing and ACM	8.07	Note: curbs for all RTUs are furnished by HVAC TRADE CONTRACTOR but flashing is by Roofing contractor.	
1	Roofing and ACM	8.08	This TRADE CONTRACTOR shall furnish and install all flashing for all roof penetrations and equipment posts.	
1	Roofing and ACM	8.09	This TRADE CONTRACTOR shall strip-in all roof drains.	
1	Roofing and ACM	8.10	Roofing debris will not be allowed to accumulate on the project and must be disposed of daily in the proper container. This TRADE CONTRACTOR shall police the surrounding off-set neighborhood removing any roofing and steel metal debris, which may have been carried off-site by wind.	
1	Roofing and ACM	8.11	This TRADE CONTRACTOR shall be responsible for all necessary tapering of insulation materials as to provide proper drainage. At TRADE CONTRACTOR'S expense shall immediately address any ponding conditions.	
1	Roofing and ACM	8.12	This TRADE CONTRACTOR is responsible for providing all work, necessary testing, field inspection and final inspection report from manufacturer for all required warranties. Testing to include water testing & pull-out test for roof fastening system (to be witnessed by Construction Manager).	
1	Roofing and ACM	8.13	This TRADE CONTRACTOR is responsible to furnish all scaffolding, hoisting, lifts, etc. necessary to complete work in accordance with project schedule.	
1	Roofing and ACM	8.14	This TRADE CONTRACTOR shall provide a system as required by the manufacturer to provide a warranty.	
1	Roofing and ACM	8.15	This TRADE CONTRACTOR shall be responsible to coordinate and attend coordination, safety, and quality meetings as required.	
1	Roofing and ACM	8.16	This TRADE CONTRACTOR is responsible to furnish and install all MEP penetration flashing and accessories as required. Review the MEP documents for a complete scope.	
1	Roofing and ACM	8.17	This TRADE CONTRACTOR is responsible to notify the roof system warranty holders as required to maintain the current roof warranties. If this TRADE CONTRACTOR is not a certified installer of the existing roof manaufacturer, this TRADE CONTRACTOR must subcontract the work at the existing roof to a roofing contractor that is certified.	
1	Roofing and ACM	8.18	This TRADE CONTRACTOR is responsible to furnish and install all metal panels.	

SCOPE OF WORK
For
BID PACKAGE 9

Storefronts and Glazing

All bids for the Storefronts & Glazing Bid Package 9 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

079200..... Joint Sealants
084113..... Aluminum-Framed Entrances and Storefronts
084413..... Glazed Aluminum Curtainwall
087100.....Door Hardware
088000..... Glazing

Bid Phase	Bid Package	Scope Item	Description	
1	Storefronts & Glazing	9.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.**	
1	Storefronts & Glazing	9.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation. This TRADE CONTRACTOR shall assume multiple mobilizations.	
1	Storefronts & Glazing	9.03	This TRADE CONTRACTOR shall perform all the required scope of work according to the drawings, specifications, contract documents, local and state codes, etc.	
1	Storefronts & Glazing	9.04	TRADE CONTRACTOR is responsible for all joint sealant as they apply to any and all work of this TRADE CONTRACTOR. This TRADE CONTRACTOR shall furnish and install all caulking and backer rods related to the installation of this work, per specification.	
1	Storefronts & Glazing	9.05	All wood blocking shown in the bid documents to be furnished and installed by OTHER. Any wood blocking required for the installation of this TRADE CONTRACTOR'S work, but not shown on the drawings, will be furnished and installed by this TRADE CONTRACTOR.	
1	Storefronts & Glazing	9.06	This TRADE CONTRACTOR shall submit all required samples, product data, and shop drawings with calculations for review by architect and engineer as required in the specifications in order to meet the construction schedule and assuming a two week review period.	
1	Storefronts & Glazing	9.07	This TRADE CONTRACTOR shall provide all tools, equipment, manpower, and hoisting for this TRADE CONTRACTORS scope of work.	
1	Storefronts & Glazing	9.08	This TRADE CONTRACTOR shall clean all window systems and glazing as outlined in the specifications prior to turn over.	
1	Storefronts & Glazing	9.09	This TRADE CONTRACTOR shall provide all glass to be installed within hollow metal frames, wood doors, and hollow metal doors. This TRADE CONTRACTOR shall field measure these items.	
1	Storefronts & Glazing	9.10	This TRADE CONTRACTOR shall work with Construction Manager and Owner to coordinate the keying schedule for doors this TRADE CONTRACTOR provides. This TRADE CONTRACTOR shall provide construction cores for all openings and will be swapped out at the end of the project by this TRADE CONTRACTOR with the final cores.	

SCOPE OF WORK
For
BID PACKAGE 10

Ceilings

All bids for the Ceilings Bid Package 10 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

095113 .....Acoustical Panel Ceilings

Bid Group	Bid Package	Scope Item	Description	
1	Ceilings	10.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics plan and Construction Schedule included within the project manual.**	
1	Ceilings	10.02	This TRADE CONTRACTOR is responsible for all layout work, measuring and field dimensioning associated with this TRADE CONTRACTOR'S work.	
1	Ceilings	10.03	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Ceilings	10.01	This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of all acoustical ceiling systems as shown throughout the bid documents.	

SCOPE OF WORK

For

BID PACKAGE 11

Flooring

All bids for the Flooring Bid Package 11 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

096513……..Resilient Base and Accessories
096519……..Resilient Tile Flooring
096813……..Tile Carpeting

Bid Phase	Bid Package	Scope Item	Description	
1	Flooring	11.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Release may be updated by future adjustments that will become part of said contractors' agreement. **NOTE:** This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.	
1	Flooring	11.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Flooring	11.03	This TRADE CONTRACTOR shall be responsible for all layout work, field measuring, and field dimensioning associated with this Trade Contractor's work.	
1	Flooring	11.04	This TRADE CONTRACTOR shall provide and comply with all life safety OSHA standards and Pepper Construction's Safety procedures.	
1	Flooring	11.05	This TRADE CONTRACTOR shall provide all necessary lifts/scaffolds to reach all areas required by this scope of work. This TRADE CONTRACTOR shall provide all manpower, tools, equipment, accessories, and hoisting required to complete its scope of work. Including any on site storage for this TRADE CONTRACTORS materials and equipment.	
1	Flooring	11.06	This TRADE CONTRACTOR shall perform daily clean-up operations and shall comply with all Pepper and OSHA safety requirements especially including but not limited to PPE and fall protection.	
1	Flooring	11.07	This TRADE CONTRACTOR to provide sufficient equipment, material, skilled manpower, supervision, and/or premium time/shift work (all without additional compensation) as may be required to complete the work of this Trade Contractor in accordance with the overall project schedule.	
1	Flooring	11.08	This TRADE CONTRACTOR will replace and repair, at no additional cost, any construction damaged by this TRADE CONTRACTOR's field operations and/or personnel.	
1	Flooring	11.09	This TRADE CONTRACTOR shall furnish all labor, material, tools required to provide a full and complete installation of all Resilient Tile, Carpet and Linoleum flooring including but not necessarily limited to layout, samples, patterns, binder bar, base, floor preparation, rubber wall base (at casework toe spaces, sides, etc.), coordination with expansion joint/ control joint/ isolation joint work, floor tile selection based on manufacturer's full range, all required accessories, in accordance with manufacturer's recommendation, final cleaning, furnish/ delivery & staging of attic stock, etc.	
1	Flooring	11.10	This TRADE CONTRACTOR shall provide all protection and cleaning as listed in the specifications.	

1	Flooring	11.11	This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of all transitions as shown throughout the bid documents.	
1	Flooring	11.12	This TRADE CONTRACTOR shall be responsible to furnish and install CPT-1, CPT-2, LN-1, LN-2, LN-3, LVT-1, LVT-2, RST-R-1, RST-R-2, RST-S-1, RST-T-1, RST-T-2, RT-1, RT-2T, SDT-1 and TW-1 per sheets A8.1.1E, A8.2.1E, A8.3.1E, the room finish schedule on sheet A8.5.0E, the finish legend A8.6.0E and throughout the bid documents.	
1	Flooring	11.13	This TRADE CONTRACTOR shall protect existing wood floor system in gym along areas of new work, typical. This TRADE CONTRACTOR shall remove and salvage existing wood floor system as required to install new foundations and complete new scope of work. This TRADE CONTRACTOR shall reinstall wood floor system, patch and repair wood floor system to match existing as required per Floor Plan Note A8 on sheet A1.1.1E and throughout the bid documents. Per G1/A4.1.2E, this TRADE CONTRACTOR shall be responsible to furnish and install new wood wall base patch to matching existing.	
1	Flooring	11.14	- *ALLOWANCE - Flooring Treatment (Moisture Mitigation and Floor Prep) - $40,000*	

SCOPE OF WORK
For
BID PACKAGE 12

Painting

All bids for the Painting Bid Package 12 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:
099123……..Interior Painting

Bid Phase	Bid Package	Scope Item	Description	
1	Painting	12.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.**	
1	Painting	12.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Painting	12.03	This TRADE CONTRACTOR shall provide all necessary lifts/scaffolds to reach all areas scheduled for painting.	
1	Painting	12.04	This TRADE CONTRACTOR shall be responsible for all painting per the specification whether shown on the drawings or not. This TRADE CONTRACTOR shall be responsible to paint all items calling for paint on the bid documents.	
1	Painting	12.05	**ALLOWANCE:** This TRADE CONTRACTOR shall include 40 man hours in the base bid value for misc. touch up painting above and beyond the punchlist.	

For

BID PACKAGE 13

Fire Protection

All bids for the Fire Protection Bid Package 13 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:

079200……..Joint Sealants
Division 21……..Fire Suppression

Bid Phase	Bid Package	Scope Item	Description	
1	Fire Protection	13.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics and Phasing plan and Construction Schedule included within the project manual.**	
1	Fire Protection	13.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Fire Protection	13.03	This TRADE CONTRACTOR shall provide all necessary lifts/scaffolds to reach all areas required by this scope of work. This TRADE CONTRACTOR shall provide all manpower, tools, equipment, accessories, and hoisting required to complete its scope of work. Including any on site storage for this TRADE CONTRACTORS materials and equipment.	
1	Fire Protection	13.04	This TRADE CONTRACTOR shall furnish and install a complete fire protection system as outlined in the construction documents and specifications. This TRADE CONTACTOR is responsible for furnishing, all materials, skilled/licensed labor, coordination, lay-out, and installation requirements of all work for a complete and properly functioning fire protection system including but not limited to control panels, hose valves, pumps, alarm devices, Siamese connections, hydrants, test hydrants, gauges, hangers, heads, fire hose cabinets, fire hose valve cabinets, guards, flow alarms, flow detectors, backflow preventers, tamper switches, pressure switches, alarm bells, controllers, gauges, sight glasses, valves, alarm panels, transfer switches, grout, all welding certifications, and other items of work as indicated on construction documents and/or as shown in the plans and specifications.	
1	Fire Protection	13.05	This TRADE CONTRACTR shall clean the streets on an ongoing basis of dirt and debris caused by this TRADE CONTRACTORS scope of work. Streets will be free of dirt and debris at **all** times. If this TRADE CONTRACTOR is unwilling to or unable to meet this requirement the CONSTRUCTION MANAGER will hire street sweeping and or labor to complete this scope of work even if the same day as the dirt and debris is generated and all costs will be backcharged to this TRADE CONTRACTOR. This TRADE CONTRACTOR shall provide necessary signage and flaggers associated with this TRADE CONTRACTORS scope of work while working within the right-of-way.	

1	Fire Protection	13.06	This TRADE CONTRACTOR shall be responsible for coordinating with proper authorities and providing all testing as required in obtaining approval or acceptance of the CONSTRUCTION MANAGER, owner, inspection authorities and other agencies required. All tests must be conducted in the presence of the CONSTRUCTION MANAGER and/or other inspection authorities having jurisdiction.	
1	Fire Protection	13.07	This TRADE CONTRACTOR shall be responsible for all permits, fees, and tests associated with its scope of work. Including but not limited to trucking, street closure permits, parking permits, fire alarm, hydrostatic, hydraulic, flushes, pump start-up, and others not specified but required to provide a complete system. This TRADE CONTRACTOR shall be responsible for calling and coordination of all inspections need or required to complete its scope of work.	
1	Fire Protection	13.08	This TRADE CONTRACTOR shall prepare all submittals, calculations, design drawings, pipe hanger calculations, and shop drawings as specified in the documents and specifications including coordination drawings with the other MEP contractors. All design documents must be stamped by licensed professional engineer in the state of Illinois. All submittals, calculations, and designed shop drawings to be submitted and approved by Cary Fire Prevention.	
1	Fire Protection	13.09	This TRADE CONTRACTOR shall provide all sleeves and coring of walls, floors, etc., including caulking, patching of walls and floors, packing and safing of sleeves and openings as indicated on construction documents and/or specified. This TRADE CONTRACTOR shall protect all floor openings left in floors for passage of piping and other items. If this TRADE CONTRACTOR supplies sleeves for the mason to install then this TRADE CONTRACTOR shall provide drawings including locations and elevations for the sleeves to be installed.	
1	Fire Protection	13.10	This TRADE CONTRACTOR shall be responsible for fire stopping all thru wall penetrations in rated walls as indicated on construction documents and/or as specified in the project manual.	
1	Fire Protection	13.11	This TRADE CONTRACTOR shall be responsible for sprinkler piping, including loop, laterals, branch piping and sprinkler heads as indicated on construction documents and/or as specified.	
1	Fire Protection	13.12	This TRADE CONTRACTOR shall coordinate all piping to avoid conflicts with areas required for other trade contractor's work (i.e., light fixtures, ductwork, etc…).	
1	Fire Protection	13.13	This TRADE CONTRACTOR shall complete all pre-construction due-diligence required for the work of this trade contractor including but not limited to verification of adequacy and location of blocking/backing for attachments, installation, resolve/coordinate any conflicts with other work, and ensure proper clearances.	
1	Fire Protection	13.14	This TRADE CONTRACTOR shall be responsible for the furnish and install of any housekeeping pads required for its equipment not shown on the drawings.	
1	Fire Protection	13.15	This TRADE CONTRACTOR shall review and construct according to ALL of the construction documents pertaining to this scope of work and all other items/systems (**IE: Electrical, Mechanical, Plumbing, Carpentry, Concrete, etc.)** to be coordinated with this scope of work. **NOTE: The HVAC CONTRACTOR shall lead in the coordination effort of all of these trades. This shall include obtaining the AutoCAD files from the plumbing, fire protection, and electrical contractor and plotting all systems in color on one drawing to verify coordination, which is required by all MEP/FP contractors alike. This TRADE CONTRACTOR shall provide coordination, shop, and as-built drawings in AutoCAD and as PDFs.**	
1	Fire Protection	13.16	This TRADE CONTRACTOR shall coordinate installation with all adjoining work and system's materials and tolerances pertaining to existing conditions and new construction as shown in the plans and specifications.	

			NOTE: Any tolerances or limitations more stringent than those pertaining to this TRADE CONTRACTOR's work shall prevail.	
1	Fire Protection	13.17	This TRADE CONTRACTOR shall be responsible for protecting any and all Fire Protection materials and equipment on-site and as specified: prior to installation, during installation and/or until final acceptance by Construction Manager.	
1	Fire Protection	13.18	This TRADE CONTRACTOR shall perform daily clean-up operations and shall comply with all Pepper and OSHA safety requirements especially including but not limited to PPE and fall protection.	
1	Fire Protection	13.19	This TRADE CONTRACTOR shall be responsible for contacting jurisdictional inspection agencies (ie. local code enforcement, testing agency's) associated with the work of this Trade Contractor to: A) Schedule any and all required inspections so as not to delay project schedule, B) Complete all work required for acceptance of this Trade Contractors work by the jurisdictional inspecting agency (at no additional cost, including incidentals) and C) Submit all inspecting agency ruling related documentation/correspondence to Construction Manager before close of business the day of occurrence.	
1	Fire Protection	13.20	This TRADE CONTRACTOR shall provide all closeout documents, including but not limited to as-built drawings, extra material, attic stock, training, demonstration, reporting, test reports, service agreements, start up with manufacturer reps, warranties including any special warranties outlined in the specifications.	
1	Fire Protection	13.21	This TRADE CONTRACTOR to provide sufficient equipment, material, skilled manpower, supervision and/or premium time/shift work (all without additional compensation) as may be required to complete the work of this Trade Contractor in accordance with the overall project schedule.	
1	Fire Protection	13.24	The work of this trade contractor is limited to the interior portion of building and connections to the water services at a point 5' from the building shall be by the PLUMBING CONTRACTOR.	
1	Fire Protection	13.25	Any work needing to take place in the existing school must be done after school or on a weekend. This TRADE CONTRACTOR shall be responsible for all work associated with removing ceiling tile and grid and reinstalling to access any work above ceiling in the existing school where ceilings are not scheduled to be demolished. Any damage done to these ceilings will be replaced at the cost of this TRADE CONTRACTOR.	

SCOPE OF WORK
For
BID PACKAGE 14

Plumbing

All bids for the Plumbing Bid Package 14 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:
079200……..Joint Sealants
All Division 22 Specifications

Bid Group	Bid Package	Scope Item	Description	
1	Plumbing	14.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics plan and Construction Schedule included within the project manual.**	
1	Plumbing	14.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Plumbing	14.03	This TRADE CONTRACTOR shall provide all necessary lifts/scaffolds to reach all areas required by this scope of work. This TRADE CONTRACTOR shall provide all manpower, tools, equipment, accessories, and hoisting required to complete its scope of work. Including any on site storage for this TRADE CONTRACTORS materials and equipment.	
1	Plumbing	14.04	This TRADE CONTRACTOR shall responsible to install valves and other accessible devices in locations that are ACCESSIBLE. This TRADE CONTRACTOR shall be responsible to furnish and install access panels as necessary.	
1	Plumbing	14.05	This TRADE CONTRACTOR shall be responsible for layout of all plumbing fixtures.	
1	Plumbing	14.06	This TRADE CONTRACTOR shall be responsible for all pipe identification and valve tagging as required and indicated on drawings. Final valve tag list and as-built documentation will reflect the final room numbers as designated by the Owner.	
1	Plumbing	14.07	This TRADE CONTRACTOR is responsible for firestopping at all penetrations.	
1	Plumbing	14.08	This TRADE CONTRACTOR shall be responsible for all sleeves and coring of walls, floors, roofs, etc. including caulking, packing, grouting, sealing and/or firesafing of sleeves, openings and	

			other items as required. This Trade Contractor shall provide safety protection at all openings left in floors for passage of piping and other items. Any additional cutting or patching necessitated by this Trade Contractor's failure to properly locate and coordinate sleeves and coring shall be completed at the expense of this Trade Contractor.	
1	Plumbing	14.09	This TRADE CONTRACTOR is responsible for shop drawings, layout, and field layout of piping concrete contractor. Plumbing Trade Contractor shall also provide dedicated shop drawings for shear wall openings, masonry openings, slab openings and penetrations. This drawing shall indicate the size of openings and shall locate the openings with respect to column lines. This TRADE CONTRACTOR shall be responsible for furnishing, lay-out, and installation of all plumbing fixtures including water closets, lavatories, sinks, urinals, water coolers, mop sink basins, and other plumbing fixtures and appurtenances, including trim, faucets, drains, etc. unless otherwise noted, as listed in the specifications and shown on the construction documents.	
1	Plumbing	14.10	This TRADE CONTRACTOR shall be responsible for all below grade, above grade rough and finish plumbing according to the drawings, specifications and contract documents including but not limited to all piping, hangers, valves, insulation, etc. with all work to be completed per applicable codes and standards.	
1	Plumbing	14.11	This TRADE CONTRACTOR shall be responsible for all clip hangers, angles, and miscellaneous metal of any nature, which is required for the work of this TRADE CONTRACTOR.	
1	Plumbing	14.12	This TRADE CONTRACTOR shall be responsible for ALL final adjustments of floor drains/clean-outs to accommodate the various types of floor finishes for a neat and tight finish.	
1	Plumbing	14.13	This TRADE CONTRACTOR shall include all insulation required for their work including all CW, HW, HWR and horizontal storm lines as indicated on construction documents and/or as specified in the project manual.	
1	Plumbing	14.14	This TRADE CONTRACTOR to provide sufficient equipment, material, skilled manpower, supervision and/or **premium time/shift work (all without additional compensation) as may be required to complete the work of this Trade Contractor in accordance with the overall project schedule.**	
1	Plumbing	14.15	This TRADE CONTRACTOR shall review and become familiar with ALL documents included in this bid group. This Trade Contractor shall furnish, install, complete and/or otherwise comply with all associated Plumbing work and requirements shown on the plans and specifications.	
1	Plumbing	14.16	This TRADE CONTRACTOR shall be responsible for taking appropriate measures to protect existing conditions including but not necessarily limited to all new and existing construction, utilities, perimeter landscaping, curbs, gutters, drives and walks, buildings, light poles, hydrants, etc. from damage that may be caused by this work.	
1	Plumbing	14.17	This TRADE CONTRACTOR shall construct in accordance with ALL of the construction documents pertaining to this scope of work and all other items/systems (IE: Controls, HVAC, Electrical, FP, roofing, carpentry, etc.) to be coordinated with this TRADE CONTRACTOR's scope of work.	
1	Plumbing	14.18	All systems will be chlorinated and disinfected in accordance with the Illinois Safe Drinking Water Standards. This TRADE CONTRACTOR shall be responsible for all coordination with the Illinois State Plumbing Inspector and **MUST** ensure that all inspections are scheduled in advance in order to keep all construction schedules accurate and on time. It should be assumed that all inspections will take 2 weeks to schedule with the State Plumbing Inspector, plan accordingly. This TRADE CONTRACTOR shall be responsible for all work associated with checking the temperature at **ALL** sinks, showers, etc throughout the entire school prior to the state plumbing inspectors inspections. Any repairs prior to inspection will be addressed via allowances.	
1	Plumbing	14.19	All piping shall have pipe markers showing the type of service in them. All valves shall be tagged with a directory mounted in boiler room under glass and one copy furnished to the Owner.	
1	Plumbing	14.20	This TRADE CONTRACTOR shall be responsible for all work associated with the removal of ceiling tiles and grid as needed in areas that require access to complete this scope of work when ceilings are not scheduled to be removed per the bid documents. All costs associated to repair/replace ceiling tiles or grid damaged by this TRADE CONTRACTOR shall be replaced at this TRADE CONTRACTOR'S expense. Ceiling shown to be removed/replaced on the bid documents is by OTHER.	

SCOPE OF WORK
For
BID PACKAGE 15

HVAC

All bids for the HVAC Bid Package 15 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:
079200……..Joint Sealants
All Division 23 Specifications

Bid Group	Bid Package	Scope Item	Description	
1	HVAC	15.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics plan and Construction Schedule included within the project manual.**	
1	HVAC	15.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	HVAC	15.03	This TRADE CONTRACTOR shall provide all necessary lifts/scaffolds to reach all areas required by this scope of work. This TRADE CONTRACTOR shall provide all manpower, tools, equipment, accessories, and hoisting required to complete its scope of work. Including any on site storage for this TRADE CONTRACTORS materials and equipment.	
1	HVAC	15.04	This TRADE CONTRACTOR shall be responsible for the selective demo, coring, etc. of all openings required to accommodate HVAC penetrations/openings (i.e. dampers, transfer ducts, pipe penetrations, etc...) in floors and walls that are not explicitly shown on the Architectural sheets. This TRADE CONTRACTOR shall provide caulking, packing, grouting and sealing of sleeves, openings, and other items pertaining to this TRADE CONTRACTOR's work. This Trade Contractor shall protect and make safe all openings created by this trade contractor for passage of piping and other items. This TRADE CONTRACTOR shall be responsible for all work in all details on sheet G3.00.	
1	HVAC	15.05	This TRADE CONTRACTOR shall be responsible for sealants/caulk for the following: joints	

			between sheet metal and masonry/precast, sheet metal casings, filter frames and all other locations where required to eliminate leakage and/or noise. Block off around all coils and filters to prevent air leakage with galvanized metal with required bracing for stiffeners and prevention of vibration according to the drawings, specifications and contract documents. This TRADE CONTRACTOR shall be responsible for all required firestopping.	
1	HVAC	15.06	This TRADE CONTRACTOR shall furnish and install all gas service piping including valves as required by code from meter shut off valves to all equipment requiring gas connections and shut off valves (iif applicable). This TRADE CONTRACTOR shall also be responsible for furnishing and installing any and all pressure regulators with vents to the atmosphere as required whether shown and specified on the drawings or not.	
1	HVAC	15.07	This TRADE CONTRACTOR shall be responsible for the installation of smoke detectors in duct work and any connections/interface with HVAC systems, smoke duct detectors supplied by ELECTRICAL CONTRACTOR. This TRADE CONTRACTOR shall coordinate the locations with ELECTRICAL CONTRACTOR. This TRADE CONTRACTOR shall be responsible for hardwiring fan shut down from duct smoke detectors.	
1	HVAC	15.08	This TRADE CONTRACTOR shall be responsible for furnishing and installing instrumentation and control items in duct work and piping for temperature control. This Trade Contractor shall coordinate the locations with Construction Manager.	
1	HVAC	15.09	This TRADE CONTRACTOR shall furnish and install all curbs and associated materials (ie. vibration isolators) required for all roof top equipment according to the drawings, specifications and contract documents.	
1	HVAC	15.10	This TRADE CONTRACTOR shall furnish and install any and all louvers and fire dampers including connection angles and miscellaneous attachments for the tie-ins according to the drawings, specifications and contract documents.	
1	HVAC	15.11	This TRADE CONTRACTOR shall furnish and install all ventilation, heating, and cooling equipment and assemblies including but not limited to all Return fans, Wall Mounted Radiators, Exhaust Fans, VAV boxes, Energy Recovery Units, Duct Free Split systems, pumps, unit heaters, radiant ceiling panels, fan powered boxes, unit ventilator maintenance/cleaning, combination dampers, all gas piping assemblies, Glycol Fill Systems, Flue piping, Expansion tanks, Hot water pumps, Chilled Water Pumps, VFD's, intakes, Hydronic Accessories, roof guard pads, Refrigerant reclaim and replaced per spec (i.e 25% propylene glycol, etc.), pipe roller assemblies and saddles, kitchen hood/exhauster assemblies (if applicable), etc., as necessary for a complete HVAC system according to the drawings, specifications and contract documents.	
1	HVAC	15.12	This TRADE CONTRACTOR shall be responsible for protecting any and all HVAC related materials and equipment on-site and as specified: prior to installation, during installation and/or until final acceptance by Construction Manager. This TRADE CONTRACTOR shall provide temporary protection of all HVAC equipment, ductwork, and piping during construction according to the specifications. This shall include but is not limited to sealing all open ends of ductwork at all times to prevent dirt and dust from entering this ductwork. This shall apply to ductwork being stored on site prior to installation as well as the ductwork after it is installed. Open ends of fan powered boxes where the filter is shall also be protected. Failure to adequately protect ductwork will result in the trade contractor being back-charged for any duct cleaning that will be required. Where equipment needs to be installed prior to the building being "watertight" this trade contractor shall provide, install, and maintain protection for this equipment (i.e. temp-ins at roof curbs).	
1	HVAC	15.13	This TRADE CONTRACTOR shall be responsible to keep the building water tight after existing equipment on the roof is removed and/or after new equipment is set until the roofing contractor is back onsite to roof/flash around equipment and voids. Any water damage below due to areas not being water type shall be this TRADE CONTRACTORS responsibility to repair.	
1	HVAC	15.14	This TRADE CONTRACTOR shall be responsible for all starters not shown as provided and installed by the electrical trade contractor. This Trade Contractor shall be responsible for providing combination starter/disconnect for all three phase equipment that does not run continuously according to the drawings, specifications and contract documents.	
1	HVAC	15.15	This TRADE CONTRACTOR to provide sufficient equipment, material, skilled manpower, supervision and/or **premium time/shift work (all without additional compensation) as may be required to complete the work of this Trade Contractor in accordance with the overall project schedule.**	
1	HVAC	15.16	This TRADE CONTRACTOR shall review and become familiar with ALL documents included in this	

			bid group. This Trade Contractor shall furnish, install, complete and/or otherwise comply with all associated HVAC work and requirements shown on the plans and specifications.	
1	HVAC	15.17	This TRADE CONTRACTOR shall be responsible for and compliant with all specified requirements including but not limited to all: Performance Requirements, Submittals, QA, Testing, Training, QC, coordination, and Extra Materials specified and pertaining to this trade contractor's work as noted in the plans and specifications. This TRADE CONTRACTOR shall furnish all operating and maintenance manuals to CONSTRUCTION MANAGER (2) weeks prior to the scheduled substantial completion date. **NOTE: This TRADE CONTRACTOR's Guarantee/warranty period of equipment and HVAC system will not start until after substantial completion acceptance, including any and all equipment utilized before final acceptance.**	
1	HVAC	15.18	This TRADE CONTRACTOR shall be responsible for contacting jurisdictional inspection agencies (i.e. local code enforcement, testing agency's) associated with the work of this Trade Contractor to: A) Schedule any and all required inspections so as not to delay project schedule, B) Complete all work required for acceptance of this Trade Contractors work by the jurisdictional inspecting agency (at no additional cost, including incidentals) and C) Submit all inspecting agency ruling related documentation/correspondence to Construction Manager before close of business the day of occurrence. **NOTE: This TRADE CONTRACTOR shall provide required out-of-sequence and/or additional testing and balancing of HVAC systems to permit expedited completion of partitions, ceilings and other work, including furnishing and installing additional valves as required to complete the balancing and testing of work according to the drawings, specifications and contract documents. This TRADE CONTRACTOR will be responsible for furnishing, installing and maintaining MERV13 filtration on the return air inlet of the fan powered boxes and locking the VAV dampers closed in these units for the purposes of temporary heat. Filters shall be changed regularly as required by this TRADE CONTRACTOR and a new set of filters shall be installed at substantial completion not included in what is required to be provided as attic stock.**	
1	HVAC	15.19	This TRADE CONTRACTOR shall be responsible to provide its own project layout according to the drawings, considering the benchmark locations and elevations that will be given by the Construction Manager.	
1	HVAC	15.20	This TRADE CONTRACTOR shall perform daily cleanup operations and shall comply with all Pepper and OSHA safety requirements especially including but not limited to crane safety, PPE, and fall protection.	
1	HVAC	15.21	This TRADE CONTRACTOR shall be responsible for all work associated with cutting/coring all openings in new or existing walls and floors.	
1	HVAC	15.23	This TRADE CONTRACTOR shall be responsible for all work associated with the removal of ceiling tiles and grid as needed in areas that require access to complete this scope of work when ceilings are not scheduled to be removed per the bid documents. All costs associated to repair/replace ceiling tiles or grid damaged by this TRADE CONTRACTOR shall be replaced at this TRADE CONTRACTOR'S expense. Ceiling shown to be removed/replaced on the bid documents is by OTHER.	
1	HVAC	15.24	All Conduit for temperature controls or BAS shown throughout the bid documents is by the ELECTRICAL Contractor. Any conduit required, but not shown on the bid documents is by this TRADE CONTRACTOR.	

SCOPE OF WORK
For
BID PACKAGE 16

Electrical and Low Voltage

All bids for the Electrical and Low Voltage and Low Voltage Bid Package 16 must be inclusive of, but not necessarily limited to, all requirements outlined in the All Scope of Work as well as the trade specific requirements outlined below:

Specifications

The following listed Specification Sections as well as any other related Documents or Specification Sections are included:
079200……..Joint Sealants
All Division 26 Specifications
All Division 27 Specifications
All Division 28 Specifications

Bid Group	Bid Package	Scope Item	Description	
1	Electrical	16.01	This TRADE CONTRACTOR shall perform under guidelines of phasing and scheduling. The schedule contained in this Bid Group may be updated by future adjustments that will become part of said contractors' agreement. **NOTE: This TRADE CONTRACTOR shall perform all work in accordance with the Site Logistics plan and Construction Schedule included within the project manual.**	
1	Electrical	16.02	All mobilizations and demobilizations related costs of this TRADE CONTRACTOR are to be included without consideration of additional compensation.	
1	Electrical	16.03	This TRADE CONTRACTOR shall provide all necessary lifts/scaffolds to reach all areas required by this scope of work. This TRADE CONTRACTOR shall provide all manpower, tools, equipment, accessories, and hoisting required to complete its	

			scope of work. Including any on site storage for this TRADE CONTRACTORS materials and equipment.	
1	Electrical	16.04	This TRADE CONTRACTOR shall be responsible for all required firestopping.	
1	Electrical	16.05	This TRADE CONTRACTOR to provide sufficient equipment, material, skilled manpower, supervision and/or **premium time/shift work (all without additional compensation) as may be required to complete the work of this Trade Contractor in accordance with the overall project schedule.**	
1	Electrical	16.06	This TRADE CONTRACTOR shall review and become familiar with ALL documents included in this bid group. This Trade Contractor shall furnish, install, complete and/or otherwise comply with all associated Electrical work and requirements shown on the plans and specifications.	
1	Electrical	16.07	This TRADE CONTRACTOR shall be responsible to provide its own project layout according to the drawings.	
1	Electrical	16.08	This TRADE CONTRACTOR shall perform daily cleanup operations and shall comply with all Pepper and OSHA safety requirements especially including but not limited to crane safety, PPE, and fall protection.	
1	Electrical	16.09	This TRADE CONTRACTOR shall be responsible for furnishing and installing all materials, skilled and/or licensed labor, coordination, equipment, tools, etc. to complete all aspects of this trade contractor's work for the complete electrical package including but not limited to power, manufactured wiring assemblies, grounding and bonding, raceways and boxes, identification, occupancy sensors, utility services, switchboards, panelboards, wiring devices, fuses, enclosed switches, enclosed controllers, generators, temporary power, surge protective devices, interior lighting, exterior lighting, site lighting, emergency lighting, exit lighting, temporary lighting, transformer(s), disconnects, miscellaneous equipment/motor wiring, fire alarm systems, pull stations, audio/visual signals, joint sealants, fire resistive joint systems, and other specified requirements for a complete, conforming and operable system as shown/stated in the plans and specifications and delivered per the project schedule	
1	Electrical	18.10	This TRADE CONTRACTOR shall be responsible for furnishing, layout, and installation of all electrical components including but not limited to: conduit, boxes, wiring, light fixtures, lamps, exit signs, panels, transformer(s), switchgear, transfer switches, dimming equipment, outlets, switches, plates, VFD's (install), etc., and any other electrical/lighting components as required within the specifications and as indicated on drawings. This TRADE CONTRACTOR shall be responsible for all conduit rough in for access control, security, voice/data, temp. controls/BAS and fire alarm low voltage equipment and devices including conduit, pull string and junction boxes as required within the specifications and as indicated on drawings and specifications. All fire alarm conduit shall be red. Any conduit required for Temp. controls/BAS, but not shown on the bid documents in by the HVAC CONTRACTOR.	
1	Electrical	16.11	This TRADE CONTRACTOR shall be responsible for providing all items for support of contractor's work, including all clip hangers, angles, and miscellaneous metal of any nature as required within the specifications and indicated on drawings. This TRADE CONTRACTOR shall be responsible for all work associated with the furnish and install of all required pipe roller supports as required on the roof for all electrical work.	
1	Electrical	16.12	This TRADE CONTRACTOR shall be responsible for all electrical requirements for electric door strikes, magnetic hold-opens, ADA push buttons, locks and other hardware as indicated on the architectural door schedule whether shown on the Electrical plans or not. Hardware and power supplies is by OTHER.	
1	Electrical	16.13	This TRADE CONTRACTOR shall be responsible for coordination with other trade contractors to obtain wiring diagrams and power requirements for equipment furnished by OTHER, prior to wiring same in the field.	
1	Electrical	16.14	This TRADE CONTRACTOR shall be responsible for all directory label charts, along with identification and tagging requirements of work as required within the specifications and as indicated on the drawings, per Construction Manager's direction (verify numbering and tagging sequence with Construction Manager). This TRADE CONTRACTOR shall provide a directory in every panel. **NOTE: This TRADE CONTRACTOR shall verify the room numbers shown on the bid documents are FINAL ROOM NUMBERS before finalizing panel schedules. All final panel schedules shall be based on these final room numbers and not necessarily the room numbers on the A sheets.**	
1	Electrical	16.15	This TRADE CONTRACTOR shall be responsible for costs associated with Fire Department's/B&F Technical's review of fire alarm drawings.	

1	Electrical	16.16	This TRADE CONTRACTOR shall be responsible for all work associated with the removal of ceiling tiles and grid as needed in areas that require access to complete this scope of work when ceilings are not scheduled to be removed per the bid documents. All costs associated to repair/replace ceiling tiles or grid damaged by this TRADE CONTRACTOR shall be replaced at this TRADE CONTRACTOR'S expense. Ceiling sshown to be removed/replaced on the bid documents is by OTHER.	
1	Electrical	16.17	Any required shut downs **MUST** be performed on second shift or weekends as previously coordinated with each school and approved in advance.	
1	Electrical	16.18	This TRADE CONTRACTOR shall be responsible for all work associated with hooking up power/electrical to Pepper's construction trailer shown on the site logistics plan.	
1	Electrical	16.19	This TRADE CONTRACTOR shall be responsible for all work associated with providing temp power and lighting	

End of Section 003200

SECTION 07 71 29 - MANUFACTURED ROOF EXPANSION JOINTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Flanged bellows-type roof expansion joints.

B. Related Requirements:

1. Section 06 10 00 "Rough Carpentry" for wooden curbs or cants for mounting roof expansion joints.
2. Section 07 62 00 "Sheet Metal Flashing and Trim" for shop- and field-fabricated sheet metal expansion-joint systems, flashing, and other sheet metal items.

1.2 ACTION SUBMITTALS

A. Product Data:

1. Flanged bellows-type roof expansion joints.

B. Shop Drawings: For roof expansion joints.

1. Include plans, elevations, sections, and attachment details.
2. Include details of splices, intersections, transitions, fittings, method of field assembly, and location and size of each field splice.
3. Provide isometric drawings of intersections, terminations, changes in joint direction or planes, and transition to other expansion joint systems depicting how components interconnect with each other and adjacent construction to allow movement and achieve waterproof continuity.

C. Samples: For each exposed product and for each color specified, 6 inches in size.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: For each fire-barrier provided as part of a roof-expansion-joint assembly, for tests performed by a qualified testing agency.

C. Sample Warranties: For special warranties.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Installer of roofing membrane.

1.5 WARRANTY

A. Special Warranty: Manufacturer and Installer agree to repair or replace roof expansion joints and components that leak, deteriorate beyond normal weathering, or otherwise fail in materials or workmanship within specified warranty period.

1. Warranty Period: Two years from date of Substantial Completion.

B. Special Warranty on Painted Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace roof expansion joints that show evidence of deterioration of factory-applied finishes within specified warranty period.

1. Fluoropolymer Finish: Deterioration includes, but is not limited to, the following:

a. Color fading more than 5 Delta E units when tested in accordance with ASTM D2244.
b. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, hole elongation, overstressing of components, failure of joint seals, failure of connections, and other detrimental effects.

1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 FLANGED BELLOWS-TYPE ROOF EXPANSION JOINTS

A. Flanged Bellows-Type Roof Expansion Joint : Factory-fabricated, continuous, waterproof, joint cover consisting of exposed membrane bellows laminated to flexible, closed-cell support foam, and secured along each edge to 3- to 4-inch- wide metal flange.

1. Manufacturers: Subject to compliance with requirements, provide products by the following:

a. inpro Corporation. 672 and 674 Series Roof to Roof and Roof to Wall Applications

2. Source Limitations: Obtain flanged bellows-type roof expansion joints approved by roofing manufacturer and that are part of roofing membrane warranty.
3. Joint Movement Capability: Plus and minus As indicated on Drawings.
4. Bellows: EPDM flexible membrane, nominal 60 mils thick.

5. Flanges: Aluminum, 0.032 inch thick.
6. Configuration: Angle formed to fit curbs as indicated on Drawings.
7. Corner, Intersection, and Transition Units: Provide factory-fabricated units for corner and joint intersections and horizontal and vertical transitions including those to other building expansion joints.
8. Cover Membrane: EPDM flexible membrane, factory laminated to bellows and covering entire joint assembly and curbs.

    a. Color: Match Roof Location.

9. Accessories: Provide splicing units, adhesives, and other components as recommended by roof-expansion-joint manufacturer for complete installation.
10. Secondary Seal: Continuous, waterproof membrane within joint and attached to substrate on sides of joint below the primary bellows assembly.

    a. Thermal Insulation: Fill space above secondary seal with manufacturer's standard, factory-installed mineral-fiber insulation; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E84.

B. Materials:

1. Galvanized-Steel Sheet: ASTM A653/A653M, hot-dip zinc-coating designation G90.
2. Stainless Steel Sheet: ASTM A240/A240M or ASTM A666, Type 304.
3. Aluminum Sheet: ASTM B209, mill finish, with temper to suit forming operations and performance required.

    a. Apply manufacturer's standard protective coating on aluminum surfaces to be placed in contact with cementitious or preservative-treated wood materials.

4. EPDM Membrane: ASTM D4637/D4637M, type standard with manufacturer for application.
5. Neoprene Membrane: Neoprene sheet recommended by EPDM manufacturer for resistance to hydrocarbons, non-aromatic solvents, grease, and oil; and as standard with roof-expansion-joint manufacturer for application.
6. PVC Membrane: ASTM D4434/D4434M, type standard with manufacturer for application.

2.3 MISCELLANEOUS MATERIALS

A. Adhesives: As recommended by roof-expansion-joint manufacturer.

B. Fasteners: Manufacturer's recommended fasteners, suitable for application and designed to withstand design loads.

1. Exposed Fasteners: Gasketed. Use screws with hex washer heads matching color of material being fastened.

C. Mineral-Fiber Blanket: ASTM C665.

D. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D1187.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine joint openings, substrates, and expansion-control joint systems that interface with roof expansion joints, for suitable conditions where roof expansion joints will be installed.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. Comply with manufacturer's written instructions for handling and installing roof expansion joints.

1. Anchor roof expansion joints securely in place, with provisions for required movement. Use fasteners, protective coatings, sealants, and miscellaneous items as required to complete roof expansion joints.
2. Install roof expansion joints true to line and elevation; and without warping, jogs in alignment, buckling, or tool marks.
3. Provide for linear thermal expansion of roof-expansion-joint materials.
4. Provide uniform profile of roof expansion joint throughout its length; do not stretch or squeeze membranes.
5. Provide uniform, neat seams.
6. Install roof expansion joints to fit substrates and to result in watertight performance.

B. Directional Changes: Install factory-fabricated units at directional changes to provide continuous, uninterrupted, and watertight joints.

C. Transitions to Other Expansion-Control Joint Assemblies: Coordinate installation of roof expansion joints with other exterior expansion-control joint assemblies specified in Section 07 95 13.16 "Exterior Expansion Joint Cover Assemblies" to result in watertight performance. Install factory-fabricated units at transitions between roof expansion joints and exterior expansion-control joint systems.

D. Splices: Splice roof expansion joints to provide continuous, uninterrupted, and waterproof joints.

1. Install waterproof splices and prefabricated end dams to prevent leakage of secondary-seal membrane.

E. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.

END OF SECTION 07 71 29

SECTION 07 95 13.13 - INTERIOR EXPANSION JOINT COVER ASSEMBLIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Wall expansion joint assemblies.
2. Ceiling expansion joint assemblies.

1.2 ACTION SUBMITTALS

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for expansion joint cover assemblies.

1. Wall expansion joint covers.
2. Ceiling expansion joint covers.

B. Shop Drawings: For each expansion joint cover assembly.

1. Include plans, elevations, sections, details, splices, block-out requirement, attachments to other work, and line diagrams showing entire route of each expansion joint.
2. Where expansion joint cover assemblies change planes, provide isometric or clearly detailed drawing depicting how components interconnect.

1.3 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each fire-resistance-rated expansion joint cover assembly, for tests performed by manufacturer and witnessed by a qualified testing agency.

PART 2 - PRODUCTS

2.1 ASSEMBLY DESCRIPTION

A. Furnish units in longest practicable lengths to minimize field splicing.

B. Include factory-fabricated closure materials and transition pieces, T-joints, corners, curbs, cross-connections, and other accessories as required to provide continuous expansion joint cover assemblies.

2.2 PERFORMANCE REQUIREMENTS

A. Expansion Joint Design Criteria :

1. Type of Movement: Thermal and Wind sway.

a. Nominal Joint Width: As indicated on Drawings.

2.3 WALL EXPANSION JOINT COVERS

A. Interior Type W1: Elastomeric-Seal Wall Joint Cover

1. Manufacturers: Subject to compliance with requirements, provide one of the following: Basis of Design:

a. InPro Corporation; 113 Series

2. Application: Wall to corner.
3. Nominal joint width: 4 inches.
4. Color: To be selected by Architect from manufacturer's full range.

2.4 CEILING EXPANSION JOINT COVERS

A. Interior Type C1: Elastomeric-Seal Ceiling Joint Cover

1. Manufacturers: Subject to compliance with requirements, provide one of the following: Basis of Design:

a. InPro Corporation; 113 Series

2. Application: Wall to suspended acoustical tile ceiling system.
3. Nominal joint width: 4 inches.
4. Color: To be selected by Architect from manufacturer's full range.

2.5 MATERIALS

A. Aluminum: ASTM B221, Alloy 6063-T5 for extrusions; ASTM B209, Alloy 6061-T6 for sheet and plate.

1. Apply manufacturer's standard protective coating on aluminum surfaces to be placed in contact with cementitious materials.

B. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304 for plates, sheet, and strips.

C. Elastomeric Seals: Manufacturer's standard preformed elastomeric membranes or extrusions to be installed in metal frames.

D. Moisture Barrier: Manufacturer's standard, flexible elastomeric material.

E. Nonmetallic, Shrinkage-Resistant Grout: ASTM C1107/C1107M, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

2.6 ALUMINUM FINISHES

A. Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I, 0.018 mm or thicker.

2.7 STAINLESS STEEL FINISHES

A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.

1. Run grain of directional finishes with long dimension of each piece.
2. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
3. Directional Satin Finish: No. 4.

C. Bright, Cold-Rolled, Unpolished Finish: No. 2B.

2.8 ACCESSORIES

A. Moisture Barriers: Manufacturer's standard continuous, waterproof membrane within joint and attached to substrate on sides of joint.

B. Manufacturer's stainless steel attachment devices. Include anchors, clips, fasteners, set screws, spacers, and other accessories compatible with material in contact, as indicated or required for complete installations.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine surfaces where expansion joint cover assemblies will be installed for installation tolerances and other conditions affecting performance of the Work.

B. Notify Architect where discrepancies occur that will affect proper expansion joint cover assembly installation and performance.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Prepare substrates according to expansion joint cover assembly manufacturer's written instructions.

B. Coordinate and furnish anchorages, setting drawings, and instructions for installing expansion joint cover assemblies. Provide fasteners of metal, type, and size to suit type of construction indicated and to provide for secure attachment of expansion joint cover assemblies.

3.3 INSTALLATION

A. Comply with manufacturer's written instructions for storing, handling, and installing expansion joint cover assemblies and materials unless more stringent requirements are indicated.

B. Metal Frames: Perform cutting, drilling, and fitting required to install expansion joint cover assemblies.

1. Repair or grout block out as required for continuous frame support using nonmetallic, shrinkage-resistant grout.
2. Install frames in continuous contact with adjacent surfaces.

    a. Shimming is not permitted.

3. Install in true alignment and proper relationship to joints and adjoining finished surfaces measured from established lines and levels.
4. Adjust for differences between actual structural gap and nominal design gap due to ambient temperature at time of installation.
5. Cut and fit ends to accommodate thermal expansion and contraction of metal without buckling of frames.
6. Locate anchors at interval recommended by manufacturer, but not less than 3 inches from each end and not more than 24 inches o.c.

C. Seals: Install elastomeric seals and membranes in frames to comply with manufacturer's written instructions. Install with minimum number of end joints.

1. Provide in continuous lengths for straight sections.
2. Seal transitions. Vulcanize or heat-weld field-spliced joints as recommended by manufacturer.
3. Installation: Mechanically lock seals into frames or adhere to frames with adhesive or pressure-sensitive tape as recommended by manufacturer.

D. Install with hairline mitered corners where expansion joint cover assemblies change direction or abut other materials.

E. Terminate exposed ends of expansion joint cover assemblies with field- or factory-fabricated termination devices.

3.4 PROTECTION

A. Do not remove protective covering until finish work in adjacent areas is complete. When protective covering is removed, clean exposed metal surfaces to comply with manufacturer's written instructions.

B. Protect the installation from damage by work of other Sections. Where necessary due to heavy construction traffic, remove and properly store cover plates or seals and install temporary protection over expansion joint cover assemblies. Reinstall cover plates or seals prior to Substantial Completion.

END OF SECTION 07 95 13.13

SECTION 07 95 13.16 - EXTERIOR EXPANSION JOINT COVER ASSEMBLIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Exterior Expansion Joint Assemblies.

B. Related Requirements:

1. Section 07 71 29 "Manufactured Roof Expansion Joints" for factory-fabricated roof expansion joint cover assemblies.
2. Section 07 91 00 "Preformed Joint Seals" for preformed foam and extruded-silicone joint seals.

1.2 ACTION SUBMITTALS

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for expansion joint cover assemblies.

1. Exterior expansion joint covers.

B. Shop Drawings: For each expansion joint cover assembly.

1. Include plans, elevations, sections, details, splices, block-out requirement, attachments to other work, and line diagrams showing entire route of each expansion joint.
2. Where expansion joint cover assemblies change planes, provide isometric or clearly detailed drawing depicting how components interconnect.

C. Expansion Joint Cover Assembly Schedule: Prepared by or under the supervision of the supplier. Include the following information in tabular form:

1. Manufacturer and model number for each expansion joint cover assembly.
2. Expansion joint cover assembly location cross-referenced to Drawings.
3. Nominal, minimum, and maximum joint width.
4. Movement direction.
5. Materials, colors, and finishes.
6. Product options.

1.3 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each fire-resistance-rated expansion joint cover assembly, for tests performed by manufacturer and witnessed by a qualified testing agency.

PART 2 - PRODUCTS

2.1 ASSEMBLY DESCRIPTION

A. Furnish units in longest practicable lengths to minimize field splicing.

B. Include factory-fabricated closure materials and transition pieces, T-joints, corners, curbs, cross-connections, and other accessories as required to provide continuous expansion joint cover assemblies.

2.2 PERFORMANCE REQUIREMENTS

A. Expansion Joint Design Criteria :

1. Type of Movement: Wind sway.

a. Nominal Joint Width: As indicated on Drawings.

2.3 EXTERIOR EXPANSION JOINT COVERS

A. Exterior Type E1: Elastomeric-Seal Wall Joint Cover

1. Manufacturers: Subject to compliance with requirements, provide one of the following: Basis of Design.

a. InPro Corporation; 1200 Series Flush Mount Exterior Expansion Joint Pre-compressed foam system.

2. Application: Wall to wall.
3. Nominal joint width: As Indicated on drawings.
4. Color: To be selected by Architect from manufacturer's full range.

2.4 MATERIALS

A. Aluminum: ASTM B221, Alloy 6063-T5 for extrusions; ASTM B209, Alloy 6061-T6 for sheet and plate.

1. Apply manufacturer's standard protective coating on aluminum surfaces to be placed in contact with cementitious materials.

B. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304 for plates, sheet, and strips.

C. Elastomeric Seals: Manufacturer's standard preformed elastomeric membranes or extrusions to be installed in metal frames.

D. Moisture Barrier: Manufacturer's standard, flexible elastomeric material.

2.5 ALUMINUM FINISHES

A. Mill finish.

B. Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I, 0.018 mm or thicker.

2.6 STAINLESS STEEL FINISHES

A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.

B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.

1. Run grain of directional finishes with long dimension of each piece.
2. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
3. Directional Satin Finish: No. 4.

C. Bright, Cold-Rolled, Unpolished Finish: No. 2B.

2.7 ACCESSORIES

A. Moisture Barriers: Manufacturer's standard continuous, waterproof membrane within joint and attached to substrate on sides of joint.

1. Provide where indicated on Drawings.

B. Manufacturer's stainless steel attachment devices. Include anchors, clips, fasteners, set screws, spacers, and other accessories compatible with material in contact, as indicated or required for complete installations.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine surfaces where expansion joint cover assemblies will be installed for installation tolerances and other conditions affecting performance of the Work.

B. Notify Architect where discrepancies occur that will affect proper expansion joint cover assembly installation and performance.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Prepare substrates according to expansion joint cover assembly manufacturer's written instructions.

B. Coordinate and furnish anchorages, setting drawings, and instructions for installing expansion joint cover assemblies. Provide fasteners of metal, type, and size to suit type of construction indicated and to provide for secure attachment of expansion joint cover assemblies.

3.3 INSTALLATION

A. Comply with manufacturer's written instructions for storing, handling, and installing expansion joint cover assemblies and materials unless more stringent requirements are indicated.

B. Metal Frames: Perform cutting, drilling, and fitting required to install expansion joint cover assemblies.

1. Install in true alignment and proper relationship to joints and adjoining finished surfaces measured from established lines and levels.
2. Adjust for differences between actual structural gap and nominal design gap due to ambient temperature at time of installation.
3. Cut and fit ends to accommodate thermal expansion and contraction of metal without buckling of frames.
4. Install frames in continuous contact with adjacent surfaces.

    a. Shimming is not permitted.

5. Locate anchors at interval recommended by manufacturer, but not less than 3 inches from each end and not more than 24 inches o.c.

C. Elastomeric Seals: Install elastomeric seals and membranes in frames to comply with manufacturer's written instructions. Install with minimum number of end joints.

1. Provide in continuous lengths for straight sections.
2. Seal transitions. Vulcanize or heat-weld field-spliced joints as recommended by manufacturer.
3. Mechanically lock seals into frames or adhere to frames with adhesive or pressure-sensitive tape as recommended by manufacturer.

D. Preformed Foam Joint Seals: Install in compliance with manufacturer's written instructions. Install with minimum number of end joints.

1. Install each length of seal immediately after removing protective wrapping.
2. Firmly secure compressed joint seals to joint gap side to obtain full bond using exposed pressure-sensitive adhesive or field-applied adhesive as recommended by manufacturer.
3. Do not pull or stretch material. Produce seal continuity at splices, ends, turns, and intersections of joints.

4. For applications at low ambient temperatures, heat foam joint seal material in compliance with manufacturer's written instructions.

E. Install with hairline mitered corners where expansion joint cover assemblies change direction or abut other materials.

F. Terminate exposed ends of expansion joint cover assemblies with field- or factory-fabricated termination devices.

G. Moisture Barrier Drainage: If indicated, provide drainage fitting and connect to drains.

3.4 CONNECTIONS

A. Transition to Roof Expansion Joint Covers: Coordinate installation of exterior wall and soffit expansion joint covers with roof expansion joint covers specified in Section 07 71 29 "Manufactured Roof Expansion Joints."[Install factory-fabricated units at transition between exterior walls and soffits and roof expansion joint cover assemblies.]

3.5 PROTECTION

A. Do not remove protective covering until finish work in adjacent areas is complete. When protective covering is removed, clean exposed metal surfaces to comply with manufacturer's written instructions.

B. Protect the installation from damage by work of other Sections.

END OF SECTION 07 95 13.16

SECTION 09 91 13 - EXTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Primers.
2. Finish coatings.

B. Related Requirements:

1. Section 05 12 00 "Structural Steel Framing" for shop priming of metal substrates.
2. Section 05 50 00 "Metal Fabrications" for shop priming metal fabrications.
3. for shop priming metal gratings.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include preparation requirements and application instructions.
2. Indicate VOC content.

B. Samples for Verification: For each type of paint system and each color and gloss of topcoat.

1. Submit Samples on rigid backing, 8 inches square.
2. Apply coats on Samples in steps to show each coat required for system.
3. Label each coat of each Sample.
4. Label each Sample for location and application area.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Paint Products: 5 percent, but not less than 1 gal. of each material and color applied.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

1.6 FIELD CONDITIONS

A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.

B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Benjamin Moore & Co.
2. Glidden Professional.
3. Sherwin-Williams Company (The).

B. Source Limitations: Obtain each paint product from single source from single manufacturer.

2.2 PAINT PRODUCTS, GENERAL

A. Material Compatibility:

1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer based on testing and field experience.
2. For each coat in a paint system, provide products recommended in writing by topcoat manufacturer for use in paint system and on substrate indicated.

B. Colors: As indicated in a color schedule .

1. 100 percent of surface area will be painted with deep tones.

2.3 PRIMERS

A. Exterior, Alkali-Resistant, Water-Based Primer: Pigmented, water-based primer formulated for use on alkaline surfaces, such as exterior plaster, vertical concrete, and masonry.

B. Water-Based, Galvanized-Metal Primer: Corrosion-resistant, pigmented, acrylic primer; formulated for use on cleaned/etched, exterior, galvanized metal to prepare it for subsequent water-based coatings.

C. Epoxy Metal Primer: Corrosion-resistant, solvent-based, two-component epoxy primer formulated for use on prepared, exterior ferrous- and galvanized-metal surfaces.

2.4 FINISH COATINGS

A. Exterior Latex Paint, Flat: Water-based, pigmented coating; formulated for alkali, mold, microbial, and water resistance and for use on exterior surfaces, such as portland cement plaster, concrete, and primed wood.

1. Gloss and Sheen: Manufacturer's standard flat finish.

B. Exterior Latex Paint, Gloss: Water-based, pigmented, acrylic-copolymer-emulsion coating formulated for alkali, mold, microbial, scrub, blocking (sticking of two painted surfaces), and water resistance and for use on exterior, primed, wood and metal trim, sashes, frames, and doors.

1. Gloss Level: Manufacturer's standard gloss finish.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Verify suitability of substrates, including surface conditions and compatibility, with finishes and primers.

C. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Comply with manufacturer's written instructions applicable to substrates and paint systems indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.

C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems specified in this Section.

D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:

1. SSPC-SP 3.

E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.

3.3 INSTALLATION

A. Apply paints in accordance with manufacturer's written instructions.

1. Use applicators and techniques suited for paint and substrate indicated.
2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
3. Paint exterior side and edges of exterior doors and entire exposed surface of exterior door frames.
4. Paint entire exposed surface of window frames and sashes.
5. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
6. Primers specified in the Exterior Painting Schedule may be omitted on items that are factory primed or factory finished if compatible with intermediate and topcoat coatings and acceptable to intermediate and topcoat paint manufacturers.

B. Tint undercoats same color as topcoat, but tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Provide sufficient difference in shade of undercoats to distinguish each separate coat.

C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.

D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

E. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:

1. Paint the following work where exposed to view:

a. Equipment, including panelboards and switch gear.
b. Uninsulated metal piping.
c. Uninsulated plastic piping.
d. Pipe hangers and supports.
e. Metal conduit.

3.4 FIELD QUALITY CONTROL

A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.

1. Contractor shall touch up and restore painted surfaces damaged by testing.
2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written instructions, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written instructions.

3.5 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

1. Do not clean equipment with free-draining water and prevent solvents, thinners, cleaners, and other contaminants from entering into waterways, sanitary and storm drain systems, and ground.
2. Dispose of contaminants in accordance with requirements of authorities having jurisdiction.
3. Allow empty paint cans to dry before disposal.
4. Collect waste paint by type and deliver to recycling or collection facility.

B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.

D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 EXTERIOR PAINTING SCHEDULE, METAL SUBSTRATES

A. Steel and Iron Substrates:

1. Water-Based, Light Industrial Coating System <Insert drawing designation>:

a. Prime Coat: Epoxy metal primer.
b. Intermediate Coat: Matching topcoat.
c. Topcoat: Exterior, water-based, light industrial coating, gloss.

B. Galvanized-Metal Substrates:

1. Latex System :

a. Intermediate Coat: Matching topcoat.
b. Topcoat: Exterior latex paint, gloss.

END OF SECTION 09 91 13

SECTION 09 93 00 – STAINING AND TRANSPARENT FINISHING

PART 1 – GENERAL

1.1 SUMMARY

A. Exterior or Interior stain and finishes, including surface preparation.

1.2 RELATED SECTIONS

A. Section 06 18 00 – Glued-Laminated Construction

1.3 REFERENCES

A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency; current edition.

B. South Coast Air Quality Management District (SCAQMD): Rule 1113 – Architectural Coatings.

C. LEED v4 for building design and new construction: EQ and MR credits

1.4 DEFINITIONS

A. Wood products come in three forms: stains, finishes and treatments.

1. Stains are meant to change the color of the wood and bind the colorant to the wood and are therefore the first coat of any system.
2. Finishes are either penetrating or film-forming coats in different sheens and provide additional protection from moisture.
3. Treatments are meant to solve or play a specific, functional role such as wood conditioning, stain blocking, weathering, and preserving.
4. Stains are available in a wide range of opacities from natural/transparent stains that allow all the grain and texture to show to solid colors which mask all the grain but allow the texture to show. The following terms are used to describe the different opacities.

a) Natural
b) Translucent
c) Saturated
d) Ultra-Saturated
e) Solid Hide

B. Finishes are available in a wide range of sheens, as measured by a gloss meter using an 85-degree angle from vertical on sheens of 20 percent or less, using a 60-degree angle on sheens from 20 to 70 percent and a 20-degree angle on sheens of 70 percent and above, as a percentage of the amount of light that is reflected.

C. The following terms are used to describe the gloss of these formulas. Gloss levels are made for spray application – brushing will change these sheen values. Actual reflection may differ by +/- 3 percent depending on many variables such as substrate, preparation and application methods.

1. Extra Low Luster: 9 Percent
2. Low Luster: 15 Percent

3. Satin: 30 Percent
4. Semi-Gloss: 55 Percent (only available in Floor)
5. Gloss: Over 60-80+ Percent

1.5 SUBMITTALS

A. Submit under provisions of Section 01 30 00 – Administrative Requirements.

B. Product Data: Use manufacturer's product data sheet to indicate

1. Product description
2. Product characteristics
3. Surface preparation instructions
4. Application methods
5. Working procedures
6. Storage and handling procedures
7. Cross-reference to specified stain system(s) that the product is to be used in, including description of each system.

C. Samples: Acquire three identical Sansin Iris step boards that display wood substrate samples finished with selected color and sheen representing actual specified products. Include range samples if variation of finish is anticipated.

D. The finishes are displayed in steps and each coat is displayed separately as well as together. Sansin prepares samples on the actual substrate, whenever possible, since wood varies in color and density. Samples can be prepared to specification by Sansin Iris by contacting info@ sansinfactoryfinish.com.

E. Sansin will ask the architect to help secure a sample of the substrate from the wood supplier, whenever possible, and send to Sansin offices.

F. Manufacturer's Instructions: Indicate special surface preparation procedures.

G. Maintenance Data: Use manufacturer's product data sheet to indicate maintenance recommendations including maintenance cycle and cleaning procedures. The building owner may utilize Sansin Care for long term, proactive maintenance guidance at their discretion.

1.6 QUALITY ASSURANCE

A. Qualifications of Applicators: Contractors shall have a minimum of five (5) years proven satisfactory wood restoration and finishing experience of projects similar in size and class subject to Consultant's approval or be certified by the manufacturer. All products are to be installed by a single installer.

B. Colors: Consultant will help Architect to select stain color from Sansin's full color palette; including light and dark tones. Consultant will supply coating schedules showing where the various colors, sheen and products are recommended. Consultant and Architect may not necessarily select colors from The Sansin standard color palette. For custom tones and colors, the control samples will be produced by Sansin Iris in collaboration with the project design team conforming Sansin Iris sample board policy.

C. Sansin Care Program: Sansin recommends that the Sansin IRIS project be enrolled by the architect or owner into Sansin's proactive maintenance program, called Sansin Care. To find out more and enroll visit: https://www.sansin.com/resources/sansin-care/

D. Samples: Actual job substrate samples supplied by Architect and finished by The Sansin Corporation finish laboratory with selected colors, sheens and specified products will be provided via Sansin Iris custom step boards for quality expectation reference. The finishes are displayed in steps and each coat is displayed separately as well as together. Each finished substrate sample will be identified with job number, specified product, color formula and date.

1. Contractor to provide a cut section of the timber product as specified for this project with applied finish matching Architect's provided control sample for approval.

E. Each finished substrate sample will be identified with job number, specified product, color formula and date.

F. All wood finishes and treatments supplied to this project must remain as specified in this document. Changes and / or revisions to the coating system must be reviewed by Sansin prior to authorization.

1.7 STORAGE, DELIVERY AND HANDLING

A. Product will be delivered to site in sealed containers, with Sansin's original labels intact. Store in area as directed by consultant and keep covered and climatized at all times. Any unauthorized material on site could result in the refusal of stain products.

B. In storage areas, have floor and wall surfaces protected from stain drips with clean sheets, clean plywood or metal pans where the mixing is being done. Storage areas are to be left neat and clean when required for intended use.

1.8 ENVIRONMENTAL CONDITIONS

A. Areas of work shall be clean and dust free before staining is started.

B. Sufficient ventilation and or heat are required to maintain environmental temperature and humidity as specified in Sansin's published Directions for Use. Allow substrate and product to climatize adequately before beginning. Application of coatings is best in climate-controlled conditions that are consistent 24/7 to ensure substrate condition is constant during application of finishes.

C. For full protection of floors, furnishings, mechanical, electrical, special equipment and other areas not being stained, use clean drop cloths and protective coverings. As well, mask bordering areas of work that do not require stain. Clean surfaces soiled by spillage and stain spatter.

D. Do not stain surfaces during or immediately following rain, frost, dew, dusty, windy, or foggy weather.

E. Apply in proper conditions; ideal temperature of 10-23ºC (50-75ºF) with relative humidity of approximately 50%. Do not apply when temperatures at 10° Celsius or below

1.2 EXTRA MATERIALS

A. New material in each color and product used during the project will be provided by the applicator (in gallon sizes) for maintenance use. Containers will be labeled with Sansin's original labels and stored on site as directed by Owner.

B. Store material in climate-controlled environment (see Product Data Sheet).

1.3 WARRANTY PROGRAM

A. Contractor hereby warrants that work of this Section shall remain free from failure. Manufacturing defect warranty terms and conditions are outlined in the respective Sansin Corporation Product Data Sheet and on the Sansin Product Label.

PART 2 – PRODUCTS AND COATING SCHEDULE

2.1 MANUFACTURERS

A. Acceptable manufacturer:
The Sansin Corporation - Toll Free: 1-877-SANSIN-1 (726-7461)
Email: info@sansinfactoryfinish.com / Web: www.sansinfactoryfinish.com

2.2 PRODUCT FAMILIES

A. Sansin provides both retail and industrial finishes and the applicator should follow the specification as noted to utilize the correct product.

B. Products denoted as PC or Precision Coat indicate using our architectural/industrial finish line.

C. A retail version must not be substituted for Precision Coat products, as durability, color and transparency will differ.

2.3 EXTERIOR SURFACES COATING SCHEDULE

A. Below is your recommended coating schedule based on many parameters, for example, substrate, exposure, maintenance expectations and final finish. *Note, the first coat is meant to fully penetrate all six (6) sides of the wood substrate.

1. Wood Species: As indicated on drawings:

2. Coatings:

Coat #1: Apply 6 wet mils of KP-12UVW

Coat #2: Apply 4 to 6 wet mils of Precision Coat SDF Topcoat. 5Y Formula per coat.

Coat #3: Apply 4 to 6 wet mils of Precision Coat SDF Topcoat. 1Y Formula per coat.

2.4 INTERIOR SURFACES COATING SCHEDULE

A. Below is your recommended coating schedule based on many parameters, for example, substrate, exposure, maintenance expectations and final finish. *Note, the first coat is meant to fully penetrate all six (6) sides of the wood substrate.

1. Wood Species: As indicated on drawings:

2. Coatings:

Coat #1: Apply 6 wet mils of KP-12UVW

Coat #2: Apply 4 to 6 wet mils of Precision Coat SDF Topcoat. 5Y Formula per coat.

2.5 PRODUCT REFERENCE – ARCHITECTURAL FINISHES

SURFACES	SANSIN RECOMMENDED PRODUCTS
1. DECKING	PRECISION COAT KP-12UVW FACTORY APPLIED, PRECISION COAT SDF TOPCOAT FIELD APPLIED (CUSTOM COLOR TO MATCH ARCHITECTS SAMPLE). KP14 VAPOR RETARDER ON CLT DECKING FIELD APPLIED TO TOP SIDE OF DECKING.
2. LAMINATED STRUCTURAL WOOD	PRECISION COAT KP-12UVW FACTORY APPLIED AND PRECISION COAT SDF TOPCOAT FIELD APPLIED. (CUSTOM COLOR TO MATCH ARCHITECTS SAMPLE). ON EXPOSED VISIBLE SURFACES ONLY.

2.6 CLEANERS

MULTI-WASH

PART 3 - EXECUTION

3.1 WORK AREA – CONSTRUCTION SITE

A. Delivery should be coordinated between the manufacturer and the contractor to ensure that the necessary off-loading and lifting equipment is available on-site. Padded or non-marring slings should be used to lift the beams. If slings are unavailable, stainless wire rope (to avoid inking) may be utilized, provided the corners of the member are protected with wood blocking. Wood pieces should never be dragged or dropped. Climate, amount of shop finishing and site conditions should be considered when determining an appropriate time to remove the protective wrapping.

B. Care must be taken not to tear/rip or otherwise damage the product wrapping. Wood should be stored at least one meter above ground level. If storing on gravel or muddy yard surfaces, tarps should be laid down below the storage area to reduce ground moisture impact. Wood products must be well protected at all times before installation.

C. Careful consideration should be given to the handling and storage of wood. It should be determined if protective wrapping is suitable for its intended purpose.

D. Any use of corrosive steel fasteners or handling equipment will likely result in iron staining or inking (moldy appearance). This must be prevented by using non marking lifting bridals or stainless-steel forks or hardware.

3.2 SURFACE ASSESSMENT

A. Prior to beginning work thoroughly examine surfaces intended to be stained.

B. The supplier or GC should determine that the process and treatments adequately protected the surface during all stages of material handling. Finishes depending on functional and decorative features will be more or less resistant to UV, fungi and water, and therefore protective measures must be confirmed or planned and changed relative to construction plans and timelines.

C. Report in writing, conditions which would adversely affect work.

D. Proceed with work only when surfaces and conditions are satisfactory per Sansin's published Directions for use. Remove dust, grease, rust, scale and extraneous matter, as well as tool and machine marks and insects from all surfaces, which could be detrimental to a satisfactory and acceptable finish.

E. Where conditions are unsatisfactory, promptly notify Architect and obtain direction prior to beginning work.

3.3 SURFACE PREPARATION

A. Consult Sansin's published Directions for use to ensure appropriate preparation techniques are being followed, and to obtain the best protection that Sansin Enviro Stains can deliver.

3.4 APPLICATION

A. Safe and adequate equipment must be provided; scaffolding, ladders, brushes, rollers, spray equipment (if applicable), clean drop cloths and any other items needed to complete the work. High quality brushes, rollers, sprayers etc., are strongly encouraged to achieve best results. Qualified tools (Corona 6" Chinex Bristle Brushes, HVLP Air Assist or Airless Sprayers)) enable a higher dosage to the point of refusal and a more even finish for Sansin Products.

B. Apply materials in accordance with Sansin's published Directions for Use and specification.

C. Perform a test application to ensure desired results are achieved, especially when using in combination with other non-Sansin products. Compare results to approved Sansin Iris step boards that demonstrate specifications for quality control. To order step boards, contact Sansin at (519) 245-2001.

D. Finishes shall be free of defects in materials and workmanship affecting appearance and performance. Defects shall include but not be limited to; improper use or application of materials, improper cleaning and preparation of surfaces, uneven coverage, and poor cutting in.

E. Apply by means as recommended by The Sansin Corporation. Any sort of fan or ventilation system equipment must be shut off during spray application.

F. Mix materials thoroughly before and during application and apply without diluting or adding to mixture, except as directed by Sansin. Apply adequately even full coats as measured by a wet film gauge and manufacturers specifications, free from brush marks, runs, and other defects. Stain should be uniform in sheen, color and texture. Back-brush to prevent puddling. For best results, first coat must be flooded to the point of refusal to properly prepared surfaces (see Manufacturer Directions for Use)

G. Allow stain to dry before applying additional coats (if applicable).

H. Specified finishes and number of coats are intended to cover surfaces completely. If not, application of further coats may be necessary until complete coverage is achieved. To ensure maximum penetration, flood the surface liberally and adhere to mil thickness recommendation on manufacturer's product data sheet. A second or additional coat does not make up for flood penetrability, especially in the first coat. Ensure all areas that have been cut or patched are adequately coated and protected.

I. Ensure that all end-grain, drill holes and cut-outs are saturated with each specified coat to ensure coverage and maximize protection.

J. Arrange to have completed areas free of traffic wherever possible or provide adequate protection.

3.5 FIELD QUALITY CONTROL REFERENCE

A. Qualified Applicators shall have control samples available in the field to serve as quality control reference and set expectations for surface preparation and finishing standards. To order another set, contact Sansin at (519) 245-2001.

B. If available, use Sansin Iris step boards which display finished wood substrate samples in steps and each coat separately as well as together to achieve protection and aesthetic objectives.

C. Notify the Sansin Corporation of any intended product substitutions or product change-orders so that Sansin can ensure the coating schedule and requested decorative, protective, and functional coating specifications can be met and achieved with the proposed substitution.

3.6 CLEANING

A. While working stain spills, splashes or spatters should be quickly cleaned or removed. The premises will be kept free from any unnecessary accumulation of tools, equipment, excess materials and debris. Upon completion of work, leave the premises neat and clean to the satisfaction of consultant.

3.7 SANSIN CARE MAINTENANCE PROGRAM

A. Sansin encourages the development and adoption of a maintenance plan and budget before occupancy of the building.

B. The first step is to enroll the project with Sansin Care and share the owner/facility manager's contact information with the Sansin Care team so they can develop a maintenance plan and set up a maintenance reminder in the Sansin Care Database.

C. The report will review the maintenance coating system, identify how to maintain the building proactively and where to purchase the maintenance product. Maintenance recommendations are meant to retain aesthetics and promote ongoing protection of wood from weathering and bio deterioration.

D. We do recommend that the wood surface be monitored annually. Sansin always recommends finish systems that provide long-term performance, however, sometimes field adjustments are made by the client or applicator that can impact finish performance.

E. Stained wood components need to be inspected for wear / weathering status which includes the following:

1. Color fade
2. Surface erosion
3. Biodeterioration
4. Excess cracking/open surfaces

END OF SECTION 09 93 00

SECTION 10 14 19 - DIMENSIONAL LETTER SIGNAGE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Dimensional characters.

a. Cast dimensional characters.
b. Cutout dimensional characters.
c. Illuminated, fabricated channel dimensional characters.

1.2 COORDINATION

A. Furnish templates for placement of electrical service embedded in permanent construction by other installers.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For signs.

1. Include fabrication and installation details and attachments to other work.
2. Show sign mounting heights, locations of supplementary supports to be provided by other installers, and accessories.
3. Show message list, typestyles, graphic elements, and layout for each sign.
4. Show locations of electrical service connections.
5. Include diagrams for power, signal, and control wiring.

C. Samples for Verification: For each type of sign assembly showing all components and with the required finish(es), in manufacturer's standard size unless otherwise indicated and as follows:

1. Dimensional Characters: Full-size Sample of[each type of] dimensional character.

1.4 INFORMATIONAL SUBMITTALS

A. Sample Warranty: For special warranty.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For signs to include in maintenance manuals.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.7 FIELD CONDITIONS

A. Field Measurements: Verify locations of electrical service embedded in permanent construction by other installers by field measurements before fabrication, and indicate measurements on Shop Drawings.

1.8 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Deterioration of finishes beyond normal weathering.
b. Separation or delamination of sheet materials and components.

2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 01 40 00 "Quality Requirements," to design sign structure and anchorage of sign type(s) according to structural performance requirements.

B. Thermal Movements: For exterior , allow for thermal movements from ambient and surface temperature changes.

1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 DIMENSIONAL CHARACTERS

A. Cast Characters : Characters with uniform faces, sharp corners, and precisely formed lines and profiles, and as follows:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. ACE Sign Systems, Inc.

b. ASI Sign Systems, Inc.
c. Gemini Incorporated.

2. Character Material: Cast aluminum.
3. Character Height: As indicated on Drawings.
4. Thickness: As indicated on Drawings.
5. Finishes:

a. Integral Aluminum Finish: Brushed Aluminum.

6. Mounting: As indicated on Drawings.
7. Typeface: As indicated on Drawings.

B. Cutout Characters : Characters with uniform faces; square-cut, smooth, eased edges; precisely formed lines and profiles; and as follows:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. ACE Sign Systems, Inc.
b. ASI Sign Systems, Inc.
c. Gemini Incorporated.

2. Character Material: Sheet or plate acrylic.
3. Character Height: As indicated on Drawings.
4. Thickness: As indicated on Drawings.
5. Finishes:

a. Integral Acrylic Color: Match Architect's sample.

6. Mounting: Adhesive .
7. Typeface: As Indicated on Drawings.

C. Fabricated Channel Characters : Translucent face with metal side returns, formed free from warp and distortion; with uniform faces, sharp corners, and precisely formed lines and profiles; internally braced for stability, to meet structural performance loading without oil-canning or other surface deformation, and for securing fasteners; and as follows.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. ACE Sign Systems, Inc.
b. ASI Sign Systems, Inc.
c. Gemini Incorporated.

2. Character Material: Sheet or plate aluminum .
3. Material Thickness: Manufacturer's standard for size and design of character.
4. Translucent Face Sheet: Acrylic sheet with integral color matching Architect's sample.

a. Sheet Thickness: Manufacturer's standard thickness for size of character.

5. Character Height: As indicated on Drawings.
6. Character Depth: As indicated on Drawings.
7. Finishes:

    a. Integral Aluminum Finish: Match Architect's sample.

8. Mounting: Manufacturer's standard for size and design of character .

2.3 DIMENSIONAL CHARACTER MATERIALS

A. Aluminum Castings: ASTM B26/B26M, alloy and temper recommended by sign manufacturer for casting process used and for type of use and finish indicated.

B. Aluminum Sheet and Plate: ASTM B209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.

C. Aluminum Extrusions: ASTM B221, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.

D. Acrylic Sheet: ASTM D4802, category as standard with manufacturer for each sign, Type UVF (UV filtering).

2.4 ACCESSORIES

A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signs, noncorrosive and compatible with each material joined, and complying with the following:

    1. Use concealed fasteners and anchors unless indicated to be exposed.

B. Adhesive: As recommended by sign manufacturer.

C. Two-Face Tape: Manufacturer's standard high-bond, foam-core tape, 0.045 inch thick, with adhesive on both sides.

2.5 FABRICATION

A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.

    1. Preassemble signs and assemblies in the shop to greatest extent possible. Disassemble signs and assemblies only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation; apply markings in locations concealed from view after final assembly.
    2. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
    3. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed connections of flux, and dress exposed and contact surfaces.

4. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
5. Internally brace dimensional characters for stability, to meet structural performance loading without oil-canning or other surface deformation, and for securing fasteners.
6. Provide rabbets, lugs, and tabs necessary to assemble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.
7. Castings: Fabricate castings free of warp, cracks, blowholes, pits, scale, sand holes, and other defects that impair appearance or strength. Grind, wire brush, sandblast, and buff castings to remove seams, gate marks, casting flash, and other casting marks before finishing.

B. Brackets: Fabricate brackets, fittings, and hardware for bracket-mounted signs to suit sign construction and mounting conditions indicated. Modify manufacturer's standard brackets as required.

2.6 GENERAL FINISH REQUIREMENTS

A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

C. Directional Finishes: Run grain with long dimension of each piece and perpendicular to long dimension of finished trim or border surface unless otherwise indicated.

D. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

2.7 ALUMINUM FINISHES

A. Clear Anodic Finish: AAMA 611, Class I, 0.018 mm or thicker.

B. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.

B. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.

C. Verify that electrical service is correctly sized and located to accommodate signs.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF DIMENSIONAL CHARACTERS

A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.

1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
2. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
3. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

B. Mounting Methods:

1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
2. Through Fasteners: Drill holes in substrate using predrilled holes in sign as template. Countersink holes in sign if required. Place sign in position and flush to surface. Install through fasteners and tighten.
3. Adhesive: Clean bond-breaking materials from substrate surface and remove loose debris. Apply linear beads or spots of adhesive symmetrically to back of sign and of suitable quantity to support weight of sign after cure without slippage. Keep adhesive away from edges to prevent adhesive extrusion as sign is applied and to prevent visibility of cured adhesive at sign edges. Place sign in position, and push to engage adhesive. Temporarily support sign in position until adhesive fully sets.

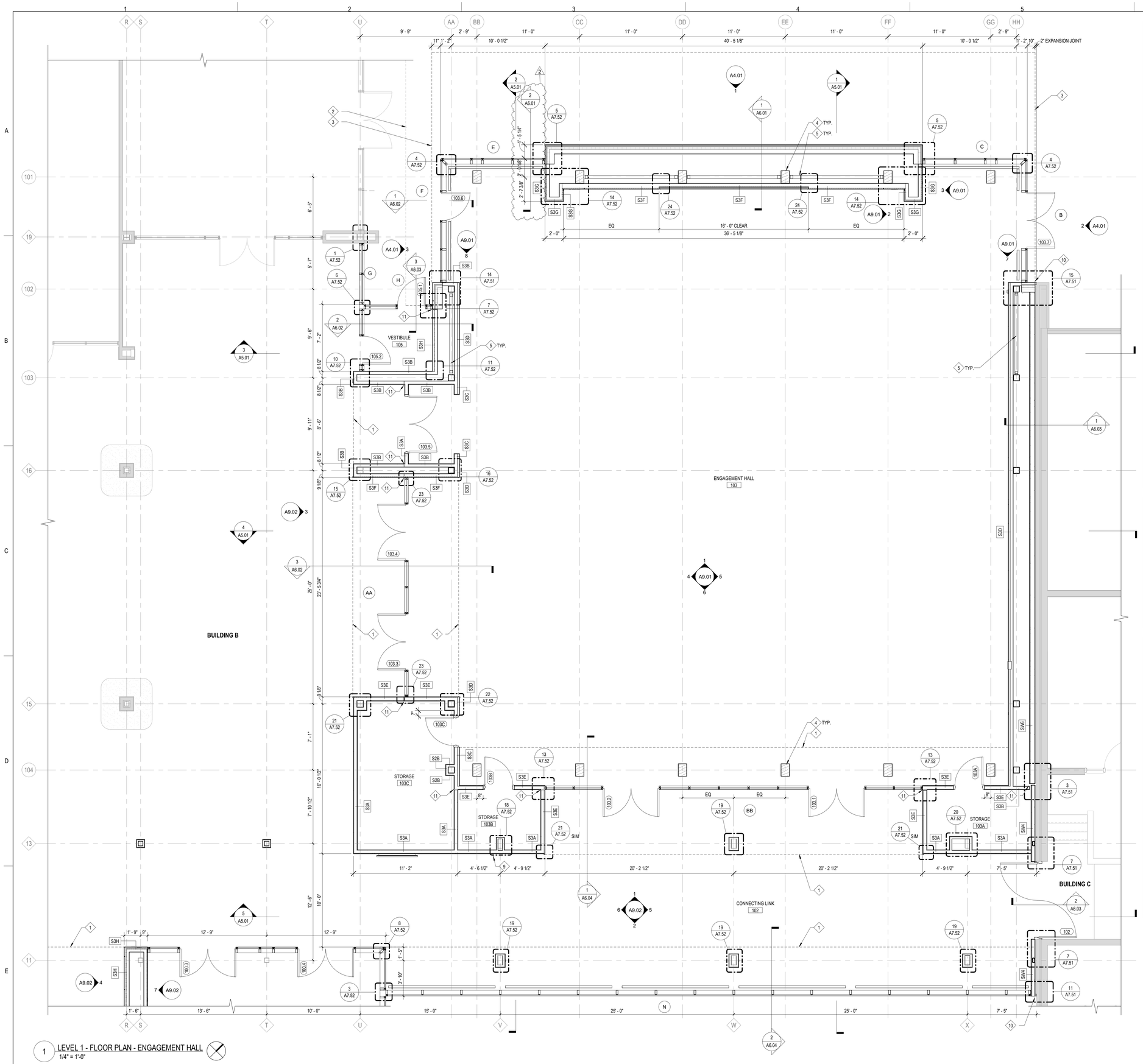
3.3 ADJUSTING AND CLEANING

A. Remove and replace damaged or deformed characters and signs that do not comply with specified requirements. Replace characters with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.

B. Remove temporary protective coverings and strippable films as signs are installed.

C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 10 14 19



1 LEVEL 1 - FLOOR PLAN - ENGAGEMENT HALL
1/4" = 1'-0"

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- GREYTONE LINES DEPICT EXISTING CONSTRUCTION
- EXISTING DOOR
- NEW WALL CONSTRUCTION
- NEW DOOR
- ROOM NAME 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX 2HR — PARTITION TYPE; PARTITION MODIFIERS - REFER TO A10.01
- 1 SIM AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 SIM AXX.XX — SECTION CALLOUT
- 1 A101 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — NEW WORK REFERENCED NOTES
- FD — FLOOR DRAIN - REFER TO PLUMBING
- FEC — SURFACE-MOUNTED EXTINGUISHER CABINET
- SFEC — SEMI-RECESSED EXTINGUISHER CABINET
- RFEC — RECESSED EXTINGUISHER CABINET
- X' MB/T — LENGTH SPECIFIED MARKERBOARD

FLOOR PLAN GENERAL NOTES:

1. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0".
2. DO NOT SCALE DRAWINGS.
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
4. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
6. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
7. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
8. ALL FURNITURE SHOWN IS FOR GRAPHIC PURPOSES ONLY AND IS N.I.C. UNLESS NOTED OTHERWISE.

FLOOR PLAN REFERENCED NOTES:

1. EXTENT OF SOFFIT ABOVE.
2. EXTENT OF EXISTING SOFFIT ABOVE.
3. EXTENT OF ROOF OVERHANG ABOVE.
4. HEAVY TIMBER COLUMN. (REFER TO STRUCT. AND SPECS)
5. STEEL CROSS BRACING. (REFER TO STRUCT.)
6. STEEL COLUMN. (REFER TO STRUCT.)
7. ROOF BELOW. (REFER TO ROOF PLAN)
8. METAL COPING BELOW. (REFER TO ROOF PLAN)
9. MONITOR, OFOI. REFER TO ELEC FOR UTILITY REQUIREMENTS. REFER TO INTERIOR ELEVATIONS FOR INSTALLATION LOCATION.
10. 2" BUILDING EXPANSION JOINT. (REFER TO SPECS)
11. 1" WALL EXPANSION JOINT. (REFER TO SPECS)

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1776

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

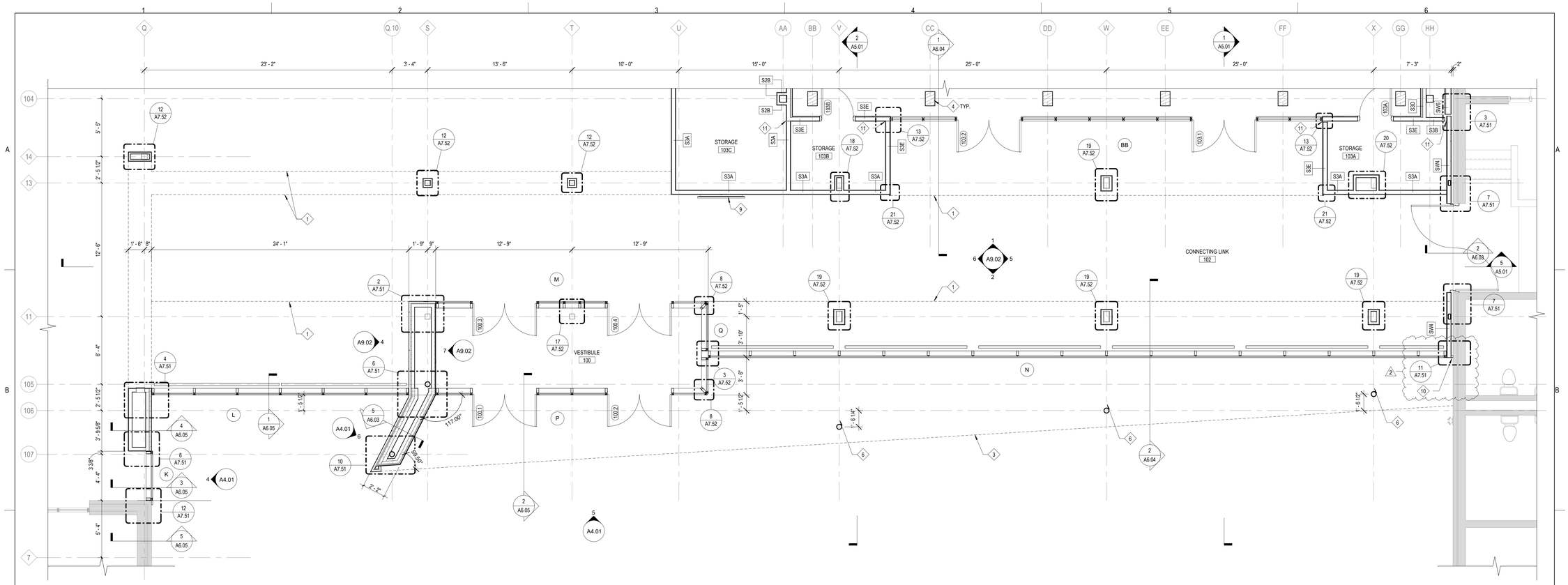
SHEET TITLE:

FLOOR PLAN - ENGAGEMENT HALL

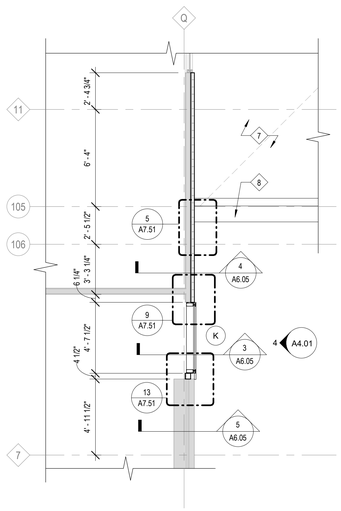
SHEET NUMBER:

A1.01

5/30/2025 2:56:30 PM



1 LEVEL 1 - FLOOR PLAN - ENTRY
1/4" = 1'-0"



2 LEVEL 2 - BLDG B - FLOOR PLAN
1/4" = 1'-0"

FLOOR PLAN REFERENCED NOTES:

1. EXTENT OF SOFFIT ABOVE.
2. EXTENT OF EXISTING SOFFIT ABOVE.
3. EXTENT OF ROOF OVERHANG ABOVE.
4. HEAVY TIMBER COLUMN. (REFER TO STRUCT. AND SPECS)
5. STEEL CROSS BRACING. (REFER TO STRUCT.)
6. STEEL COLUMN. (REFER TO STRUCT.)
7. ROOF BELOW. (REFER TO ROOF PLAN)
8. METAL COPING BELOW. (REFER TO ROOF PLAN)
9. MONITOR, OFOI. REFER TO ELEC FOR UTILITY REQUIREMENTS. REFER TO INTERIOR ELEVATIONS FOR INSTALLATION LOCATION.

FLOOR PLAN GENERAL NOTES:

1. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0".
2. DO NOT SCALE DRAWINGS.
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
4. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
6. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
7. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
8. ALL FURNITURE SHOWN IS FOR GRAPHIC PURPOSES ONLY AND N.I.C. UNLESS NOTED OTHERWISE.

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- GREYTONE LINES DEPICT EXISTING CONSTRUCTION
- EXISTING DOOR
- NEW WALL CONSTRUCTION
- NEW DOOR
- ROOM NAME 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- XX 2HR — PARTITION TYPE; PARTITION MODIFIERS - REFER TO A10.01
- 1 SIM AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 SIM AXX.XX — SECTION CALLOUT
- 1 A101 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — NEW WORK REFERENCED NOTES
- FD — FLOOR DRAIN - REFER TO PLUMBING
- FEC — SURFACE-MOUNTED EXTINGUISHER CABINET
- SFEC — SEMI-RECESSED EXTINGUISHER CABINET
- RFEC — RECESSED EXTINGUISHER CABINET
- X' MB/T — LENGTH SPECIFIED MARKERBOARD

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1776

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

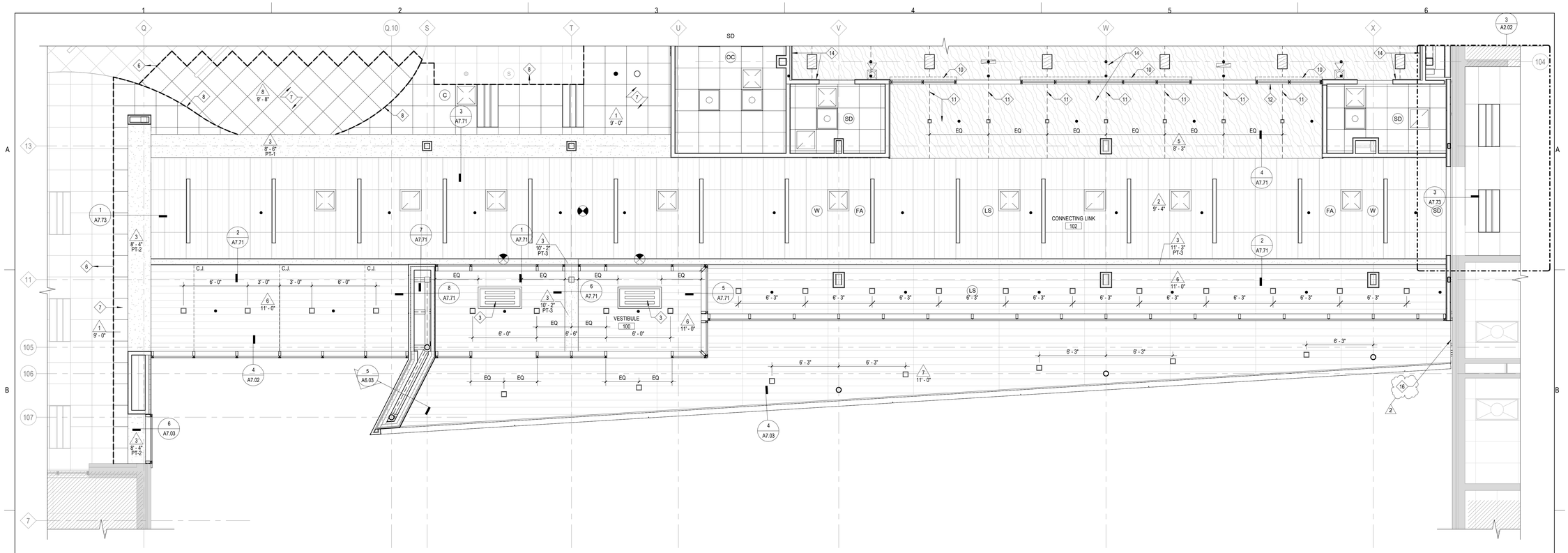
SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	5/30/25

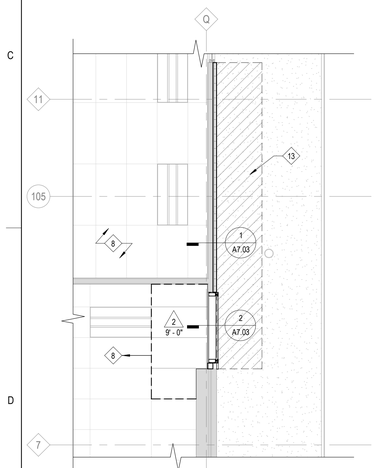
SHEET TITLE:
FLOOR PLAN - ENTRY

SHEET NUMBER:
A1.02

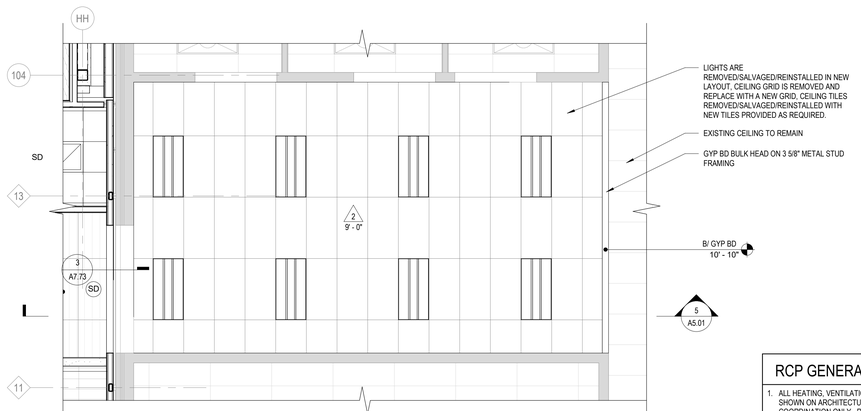
5/30/2025 2:56:30 PM



1 REFLECTED CEILING PLAN - ENTRY
1/4" = 1'-0"



2 REFLECTED CEILING PLAN - BLDG B - 2ND FL.
1/4" = 1'-0"



3 REFLECTED CEILING PLAN - BUILDING C
1/4" = 1'-0"

RCP GENERAL NOTES:

1. ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
2. IN AREAS THAT DO NOT HAVE ARCHITECTURAL REFLECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH EXISTING ADJACENT FINISHES.
3. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.
7. PAINT ALL EXPOSED CONDUIT, SPRINKLER PIPING, STORM DRAINS, DUCT, AND ALL OTHER MEP/FP ITEMS WITHIN ENGAGE HALL 103. COORD. W/ ARCHITECT FOR COLOR SELECTION.

RCP REFERENCED NOTES:

1. LINEAR DIFFUSER. (REFER TO MECH.)
2. DUCT - PAINT PT-6. (REFER TO MECH.)
3. RECESSED CABINET HEATER (REFER TO MECH.)
4. EXPOSED HEAVY TIMBER BEAMS. (REFER TO STRUCT.)
5. EXISTING EXTERIOR SOFFIT.
6. EXISTING CEILING TO REMAIN.
7. SALVAGED CEILING TILES AND ALL ASSOCIATED LIGHTING, DIFFUSERS, SPRINKLER HEADS, DEVICES, EQUIPMENT, ETC. TO BE REINSTALLED. SEE DEMO RCP FOR FULL EXTENT OF WORK. COORDINATE W/ MEPF.
8. CEILING EDGE TRIM TO BE REPLACED / REINSTALLED AS REQUIRED.
9. ROLLER SHADE, ELECTRIC. (REFER TO ELEC.) SEE GLAZING ELEVATIONS FOR CLERESTORY LOCATIONS.
10. **BASE BID:** RECESSED ROLLER SHADE, ELECTRIC. (REFER TO ELEC.) **BID ALT NO. 7:** REMOVE ROLLER SHADE (REFER TO SPEC.)
11. 1/8" OVERLAP JOINT BETWEEN FLUSH WOOD PANELS - TYP.
12. 1" CEILING EXPANSION JOINT. (REFER TO SPEC.)
13. REMOVE AND REPLACE EXISTING STUCCO SOFFIT STRUCTURE AS REQUIRED FOR NEW WORK.
14. **BASE BID:** FLUSH WOOD PANEL SYSTEM AT CEILING AND WALLS. **BID ALT NO. 8:** PAINTED GYP BD CEILING AND WALLS (REFER TO SPEC.)
15. **BASE BID:** FLUSH WOOD PANEL SYSTEM AT CEILING AND WALLS. **BID ALT NO. 9:** PAINTED GYP BD CEILING AND WALLS (REFER TO SPEC.)
16. 2" EXTERIOR SOFFIT EXPANSION JOINT (REFER TO SPEC.) 2

CEILING TYPES:

TYPE	DESCRIPTION
0	EXPOSED STRUCTURE
1	2' X 2' ACOUSTICAL PANEL SYSTEM
2	2' X 4' ACOUSTICAL PANEL SYSTEM - SCORED TILES
3	PAINTED GYP BOARD ON METAL FRAMING
4	CROSS LAMINATED TIMBER, INTERIOR / EXTERIOR APPLICATIONS (REFER TO WALL SECTIONS)
5	FLUSH WOOD PANEL CEILING SYSTEM (WD-1)
6	WOOD PHENOLIC CEILING SYSTEM - INTERIOR
7	WOOD PHENOLIC CEILING - EXTERIOR
8	2' x 2' ACOUSTICAL PANEL SYSTEM - BLACK FINISH
9	SUSPENDED ACOUSTIC CEILING BAFFLES AT EXPOSED CLT DECKING
10	GLASS FIBER REINFORCED CONCRETE PANEL CEILING SYSTEM

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION AFF
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- LINEAR WOOD SLAT CEILING SYSTEM
- WOOD PANEL CEILING
- ROLLER SHADE (TYP.)
- WINDOW SHADE & POCKET
- RECESSED 2'x4' LIGHT FIXTURE
- RECESSED 1'x4' LIGHT FIXTURE
- SUPPLY AIR GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- RECESSED 2'x2' FIXTURE
- RECESSED LINEAR FIXTURE
- SMALL PENDANT LIGHT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- RECESSED DOWN LIGHT
- PENDANT LIGHT MOUNT LINEAR FIXTURE
- SURFACE LIGHT MOUNT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- SPRINKLER HEAD
- PENDANT LIGHT HUNG STRIP FIXTURE
- MOTORIZED SCREEN
- ACCESS PANEL
- CABINET UNIT HEATER
- CEILING MOUNTED PROJECTOR
- SOLID HATCH DENOTES EXIT SIGN FACE PLATE
- DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM DEVICE
- SPEAKER
- CLOSED CIRCUIT CAMERA
- OCCUPANT SENSOR
- WIRELESS ACCESS POINT
- LIGHT SENSOR
- RETURN AIR GRILLE

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

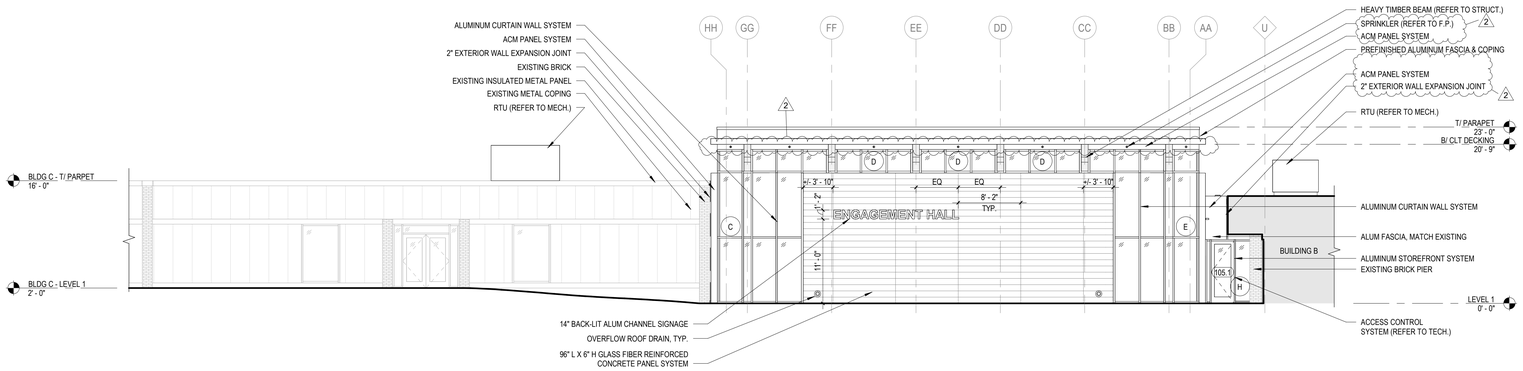
SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

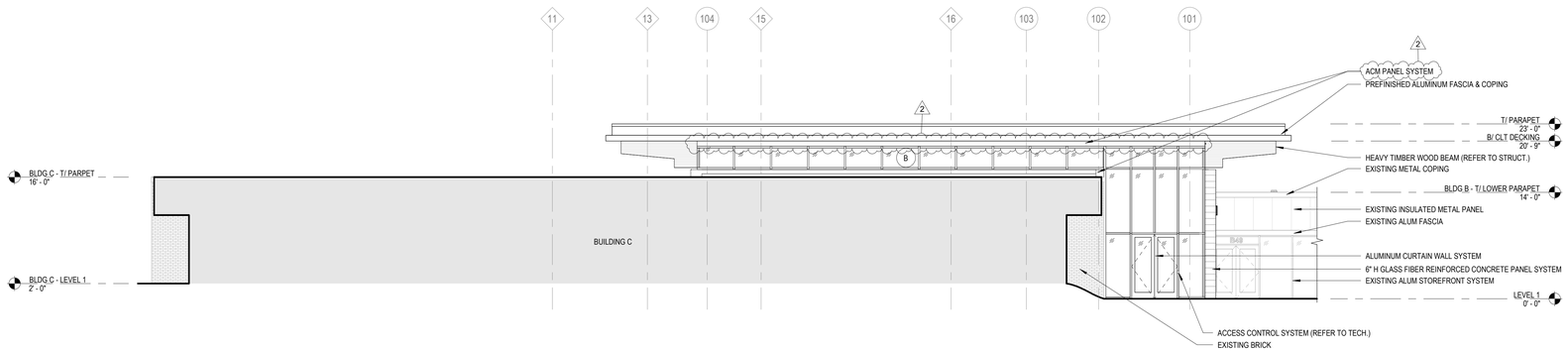
SHEET TITLE:
REFLECTED CEILING PLANS - ENTRY

SHEET NUMBER:
A2.02

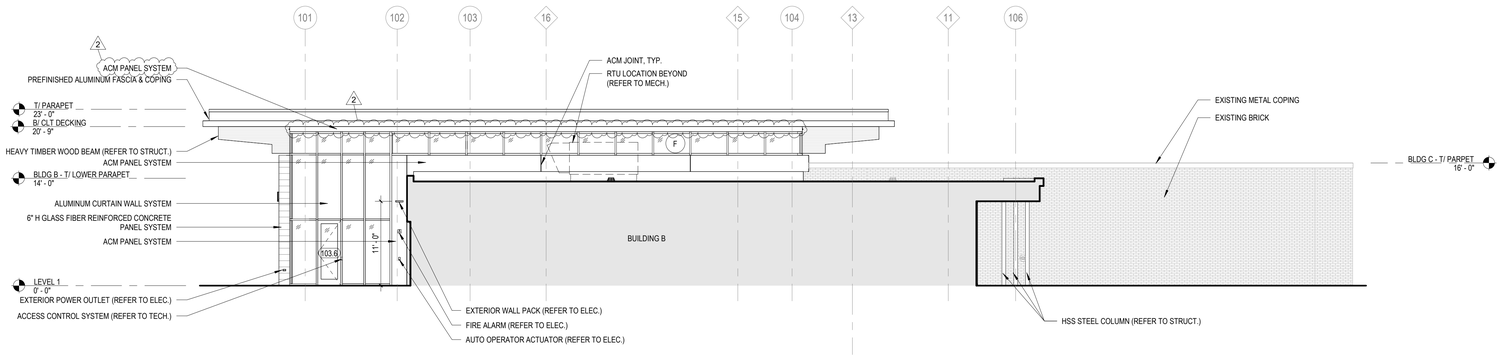
5/30/2025 2:56:32 PM



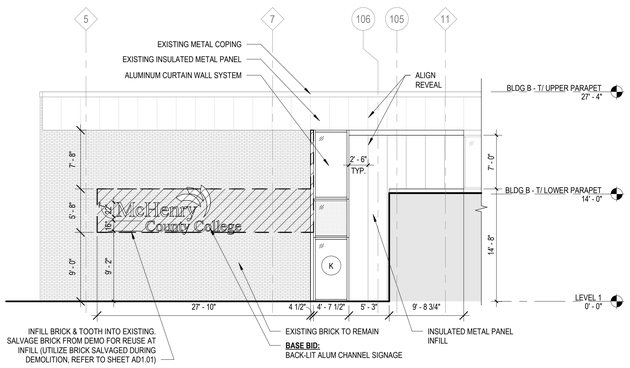
1 EXTERIOR ELEVATION - EVENT CENTER - NORTH
1/8" = 1'-0"



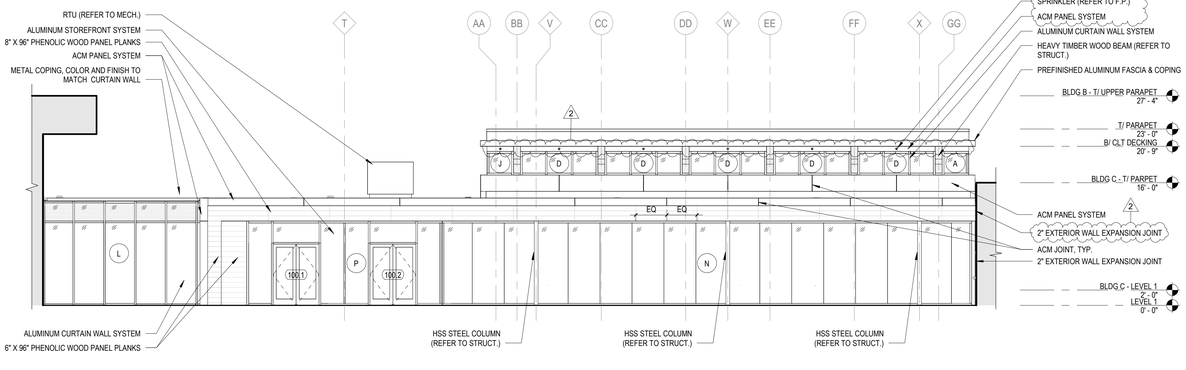
2 EXTERIOR ELEVATION - EVENT CENTER - EAST
1/8" = 1'-0"



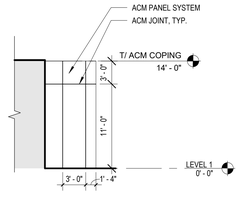
3 EXTERIOR ELEVATION - EVENT CENTER -WEST
1/8" = 1'-0"



4 EXTERIOR ELEVATION - BUILDING B - EAST
1/8" = 1'-0"



5 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



6 EXTERIOR ELEVATION - ENTRY - WEST
1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

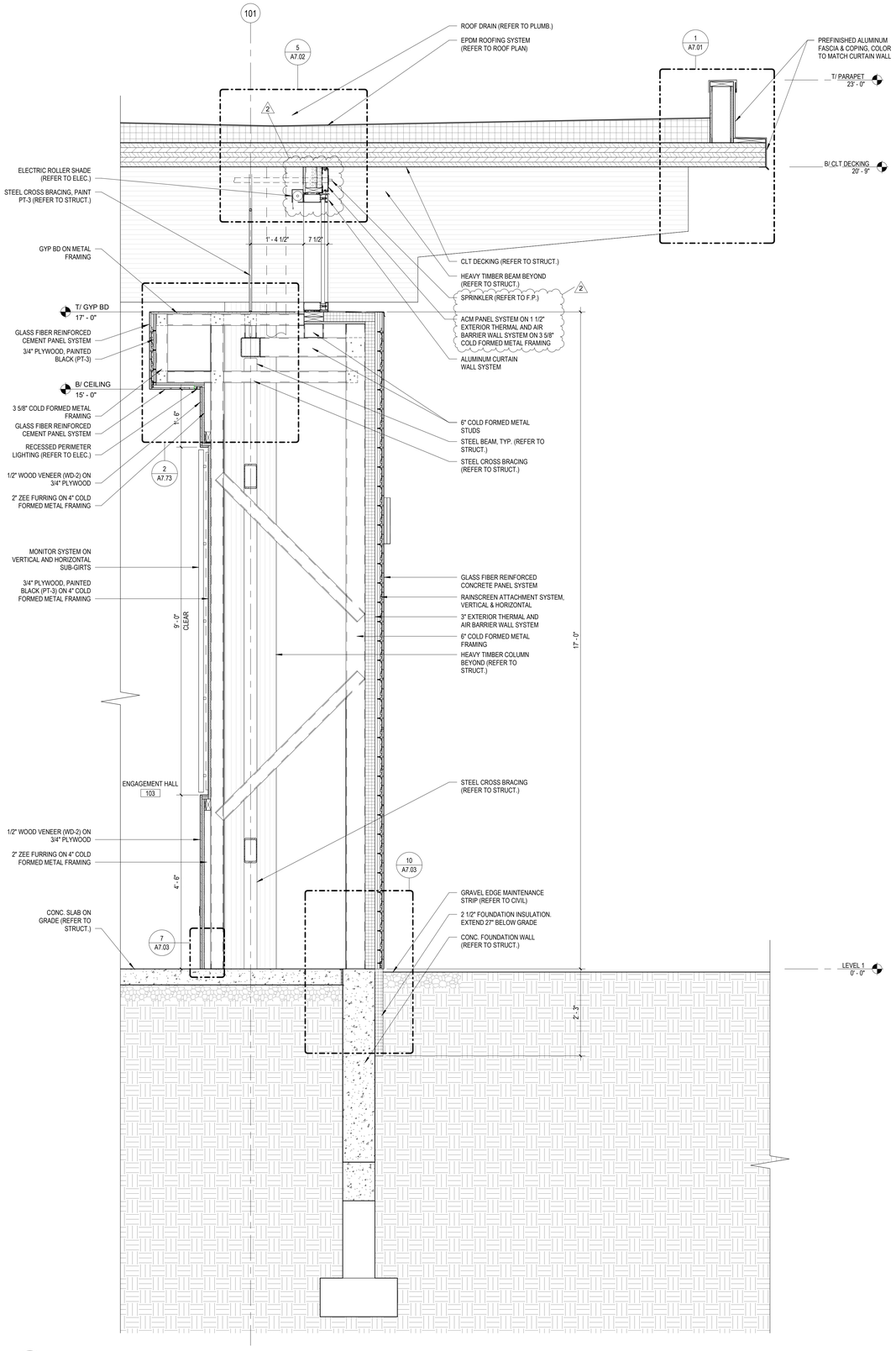
SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

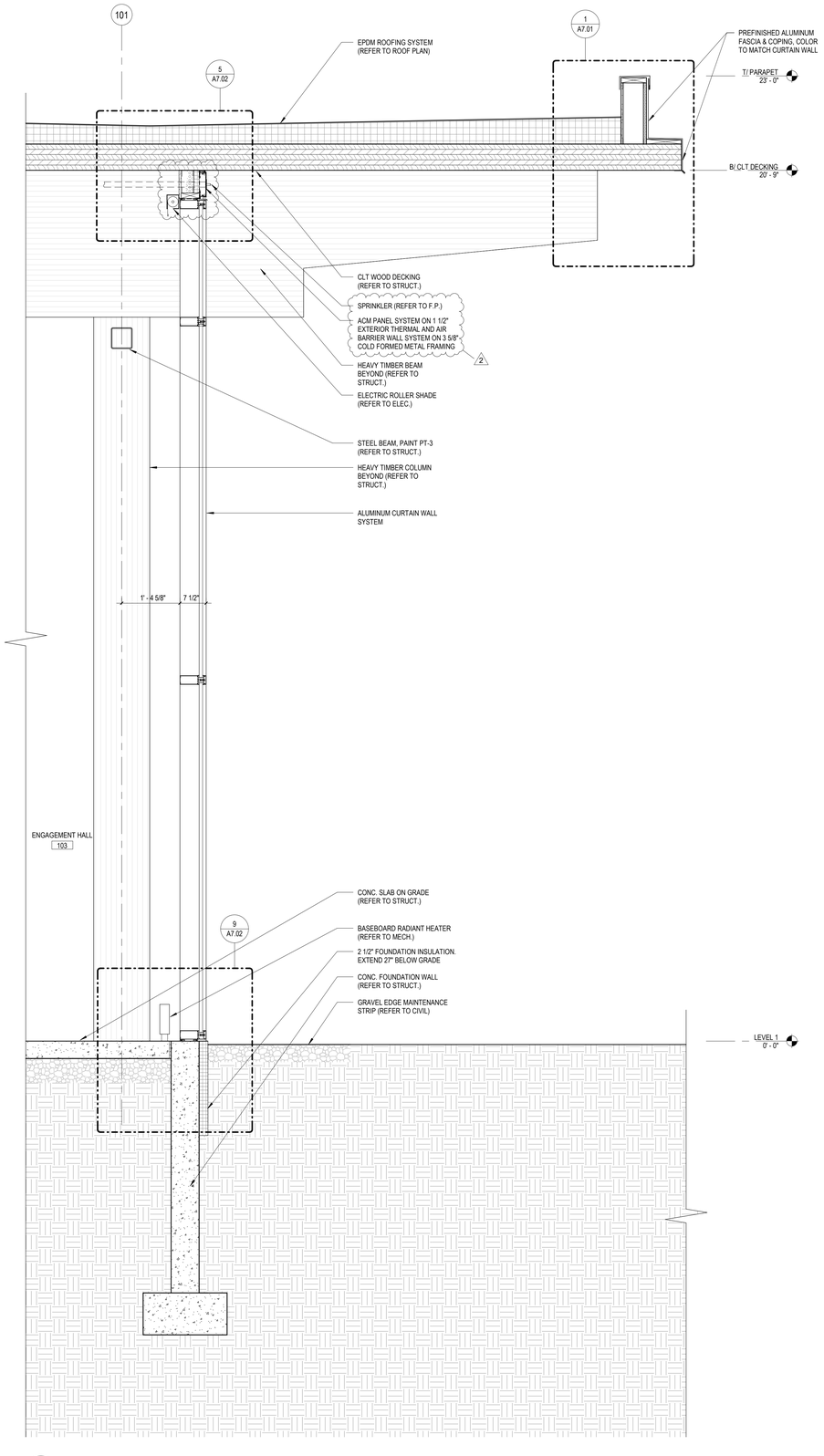
SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:
A4.01

5/30/2025 2:56:35 PM



1 WALL SECTION - ENGAGEMENT HALL - NORTH
3/4" = 1'-0"



2 WALL SECTION - ENGAGEMENT HALL - CURTAIN WALL - NORTH
3/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

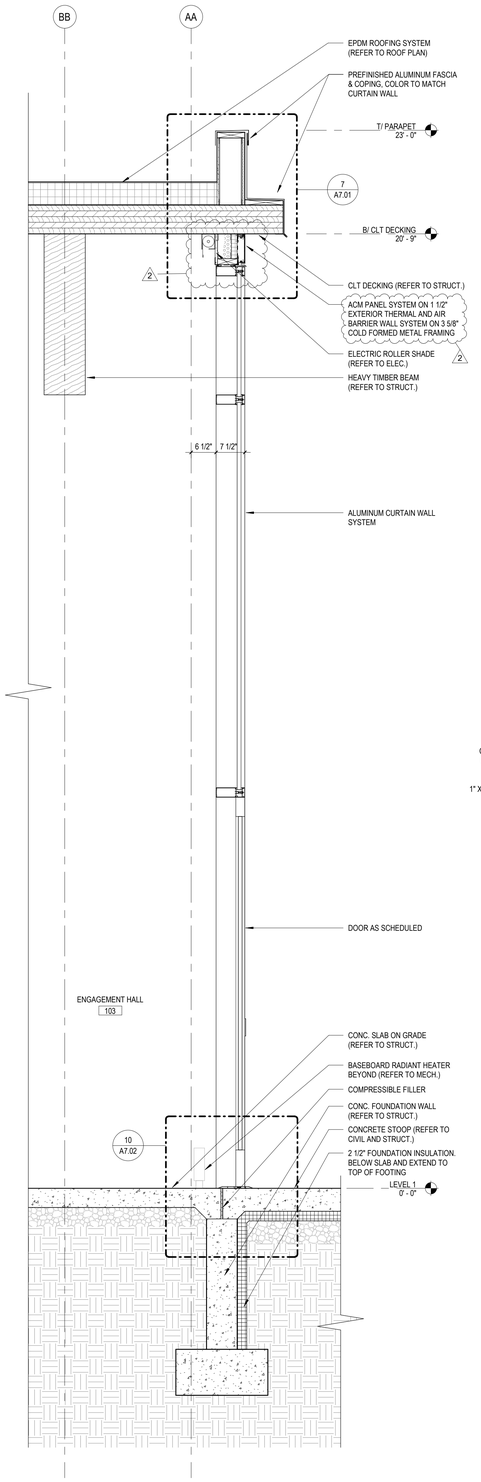
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	5/30/25

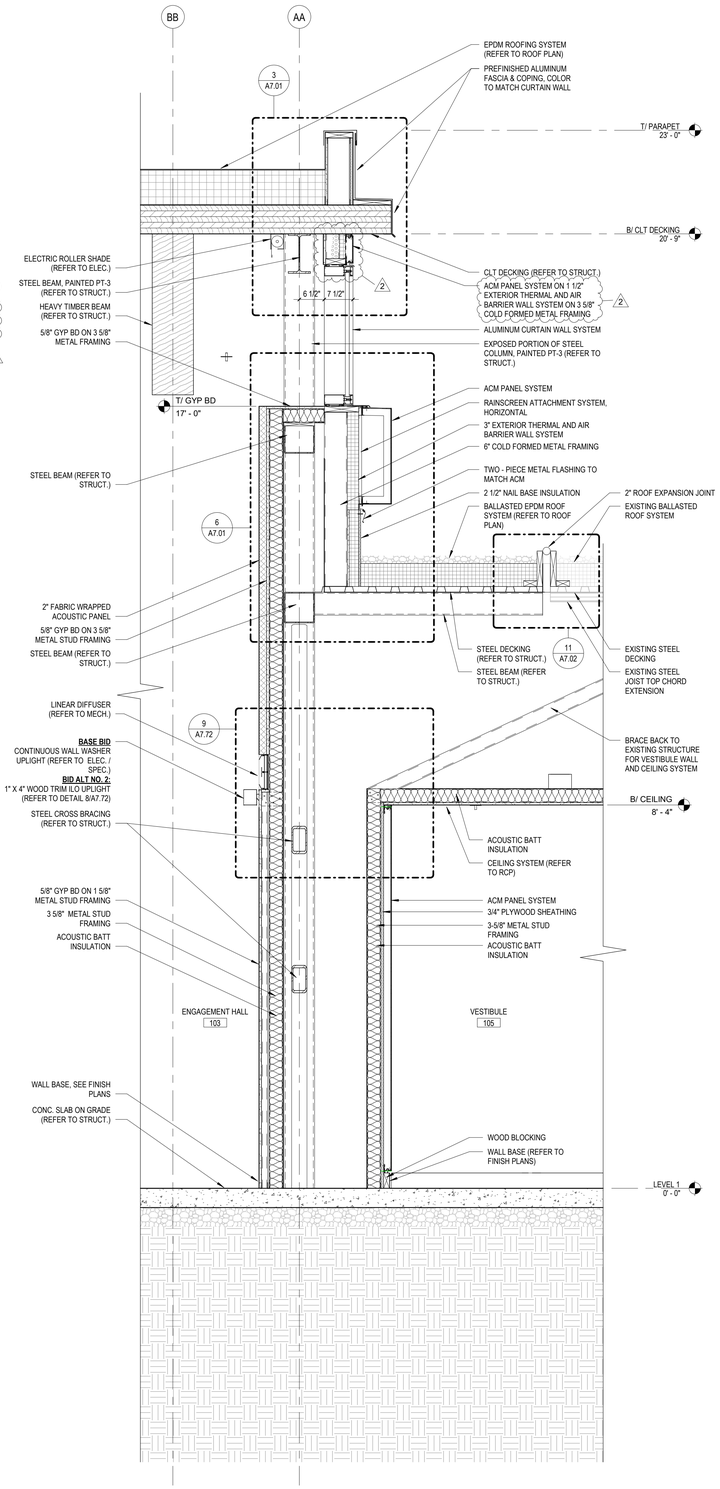
SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A6.01

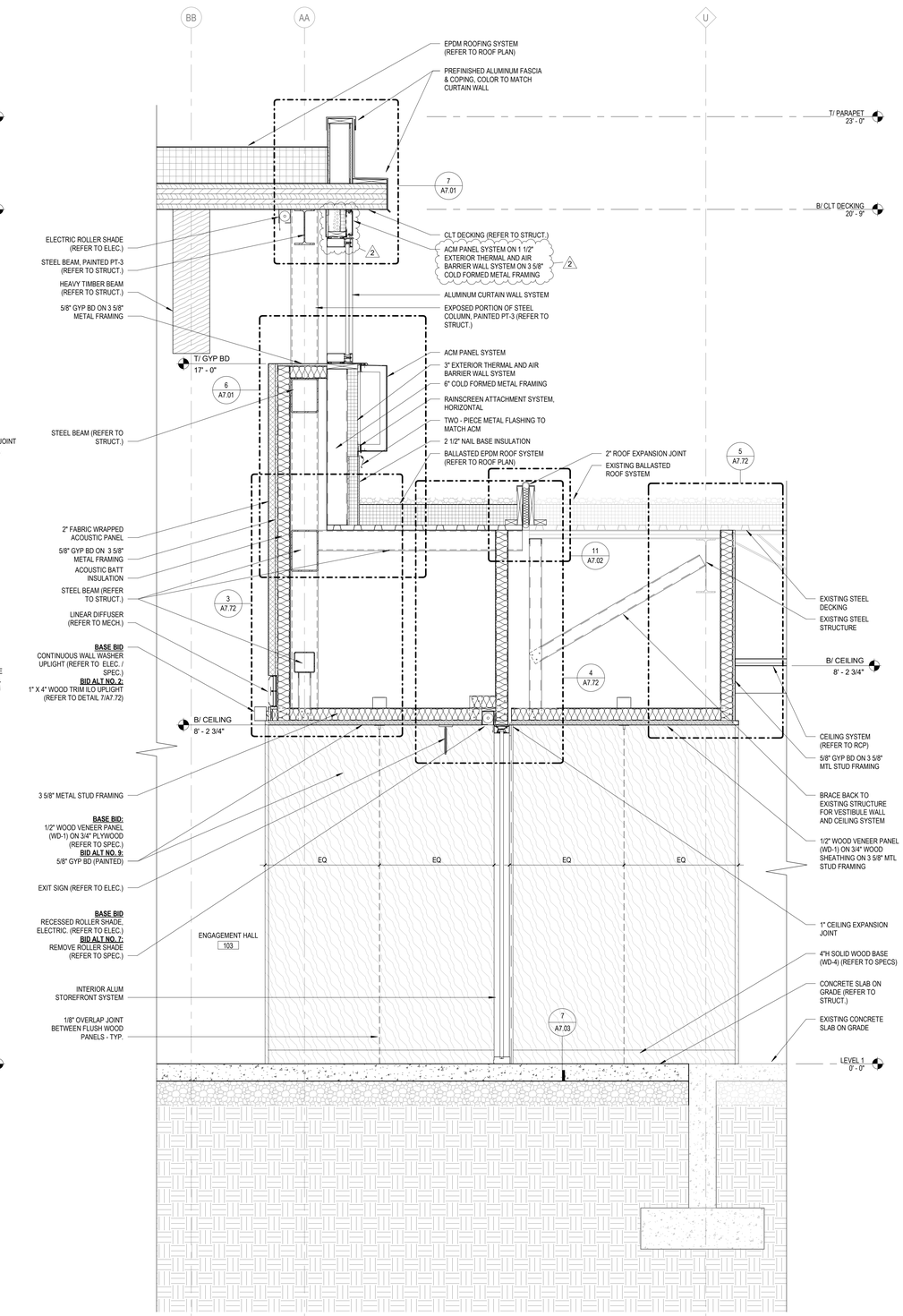
5/30/2025 2:56:36 PM



1 WALL SECTION - ENGAGEMENT HALL - CURTAIN WALL - WEST
3/4" = 1'-0"



2 WALL SECTION - ENGAGEMENT HALL - WEST 1
3/4" = 1'-0"



3 WALL SECTION - ENGAGEMENT HALL - WEST 2
3/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

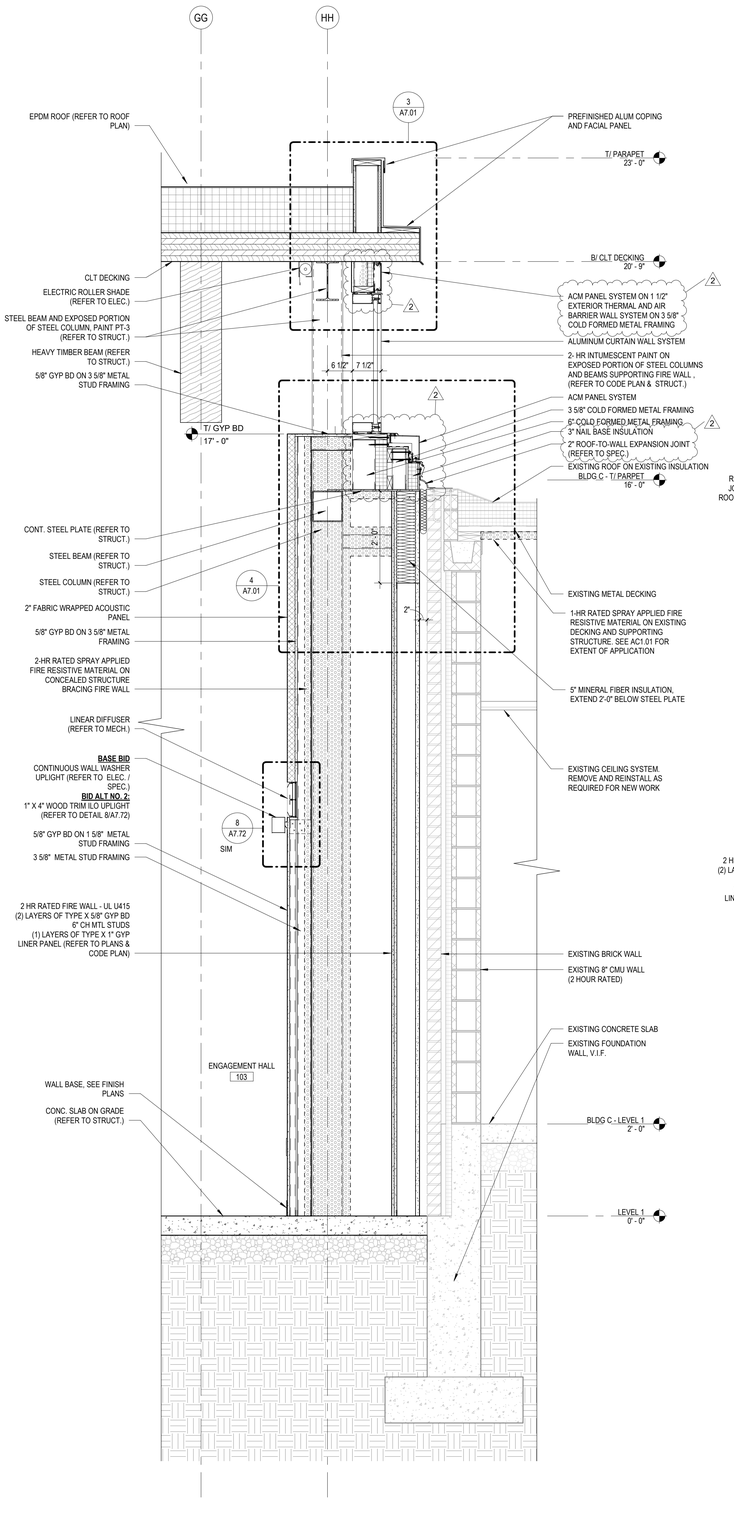
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

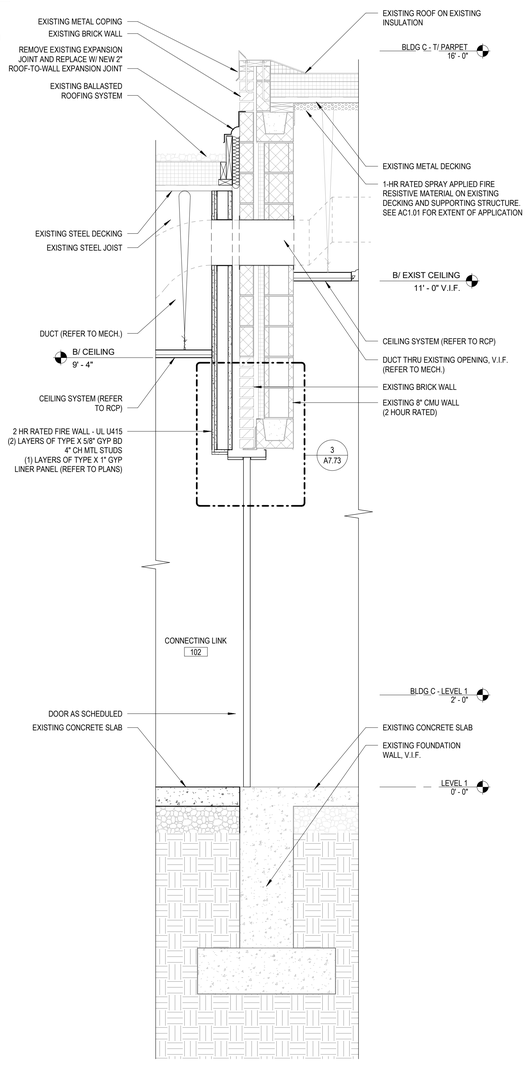
SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A6.02

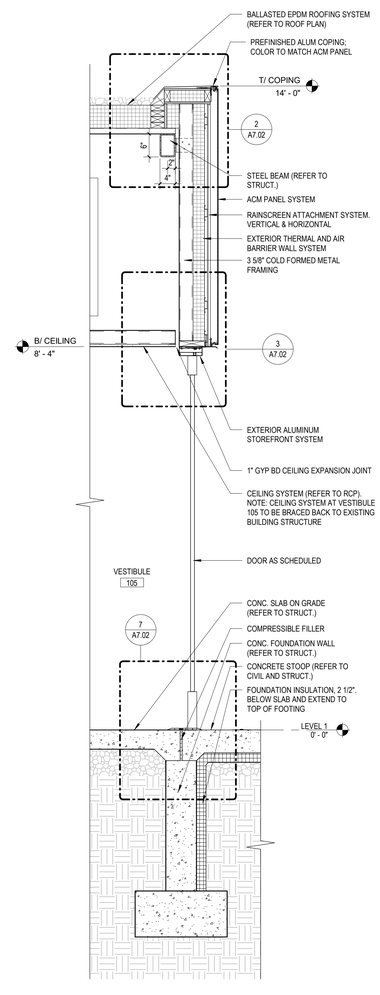
5/30/2025 2:56:37 PM



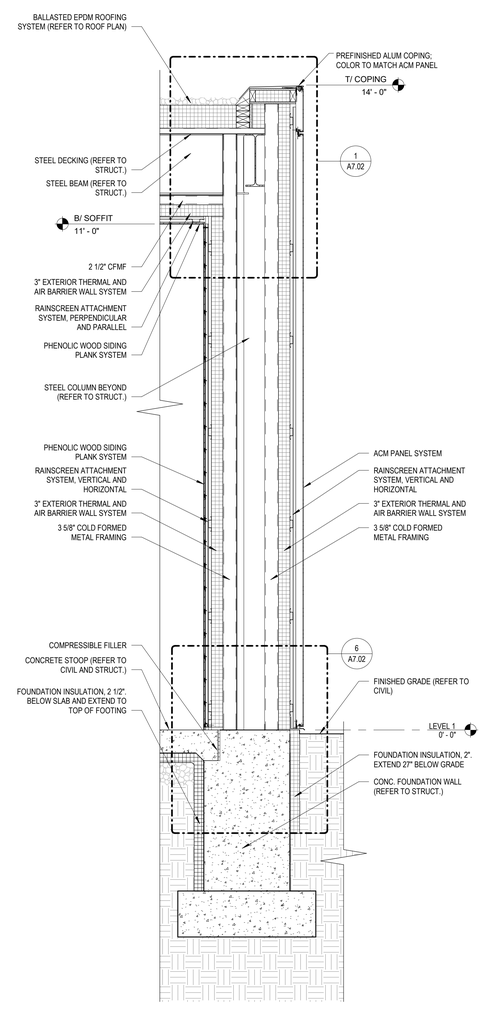
1 WALL SECTION - ENGAGEMENT HALL- EAST
3/4" = 1'-0"



2 WALL SECTION - CORRIDOR LINK CONNECTION
3/4" = 1'-0"



3 WALL SECTION - VESTIBULE 101 - NORTH
3/4" = 1'-0"



5 WALL SECTION - WING WALL
3/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

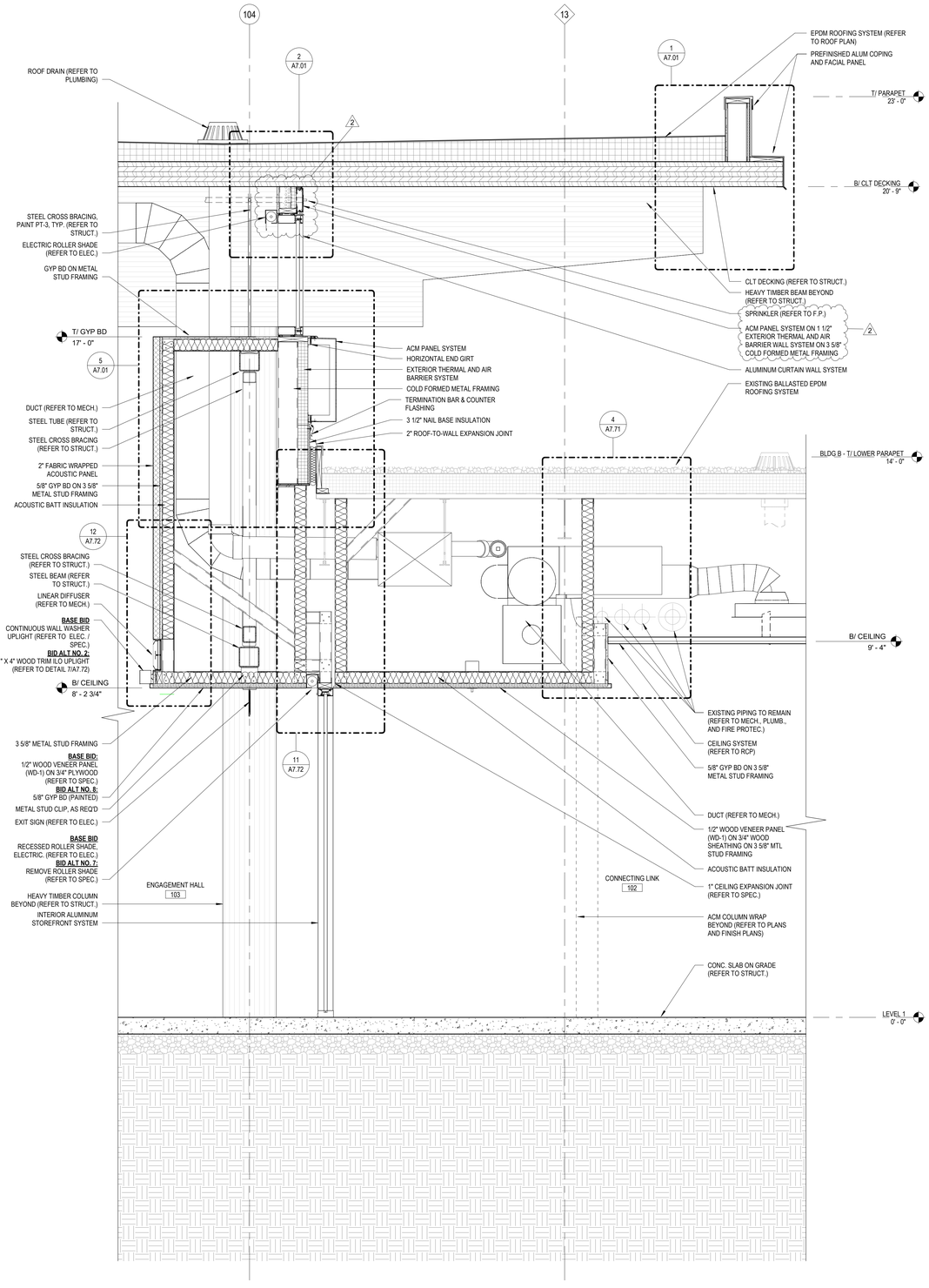
SHEET TITLE:

WALL SECTIONS

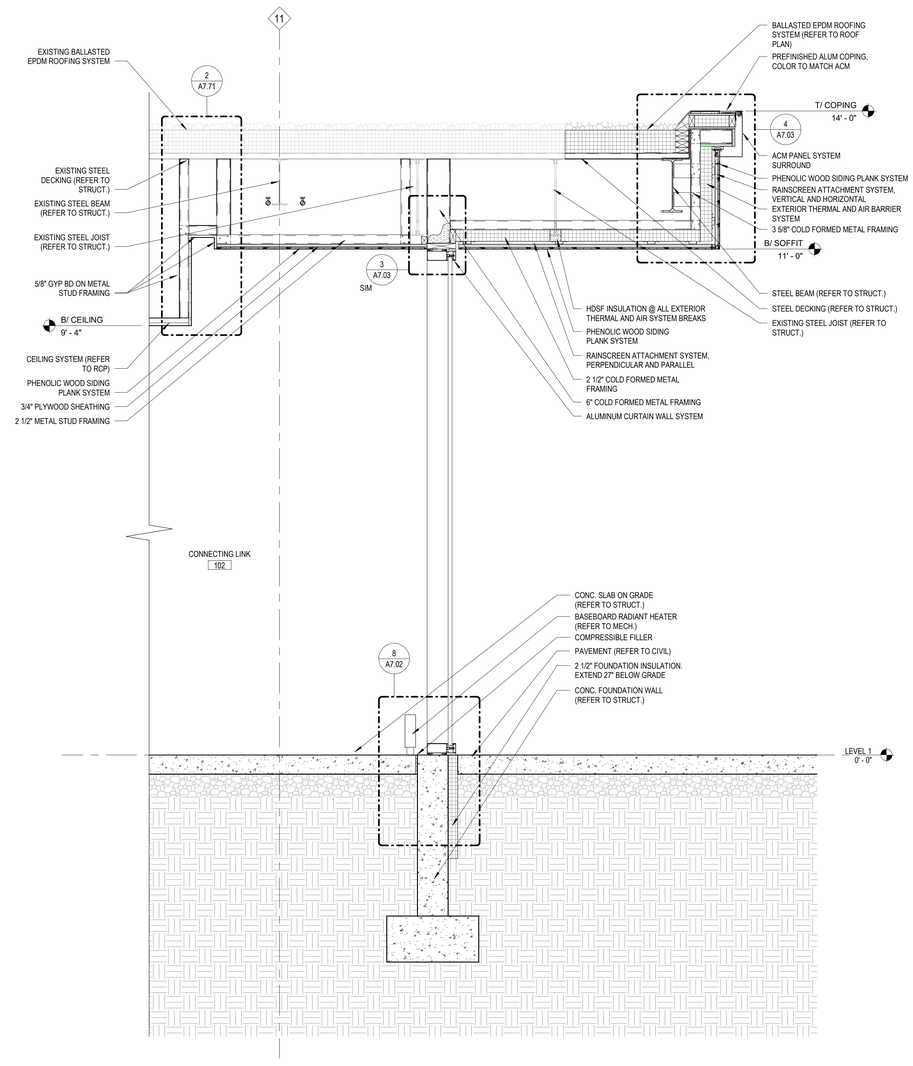
SHEET NUMBER:

A6.03

5/30/2025 2:56:38 PM



1 WALL SECTION - ENGAGEMENT HALL - SOUTH
3/4" = 1'-0"



2 WALL SECTION - CORRIDOR LINK - SOUTH
3/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

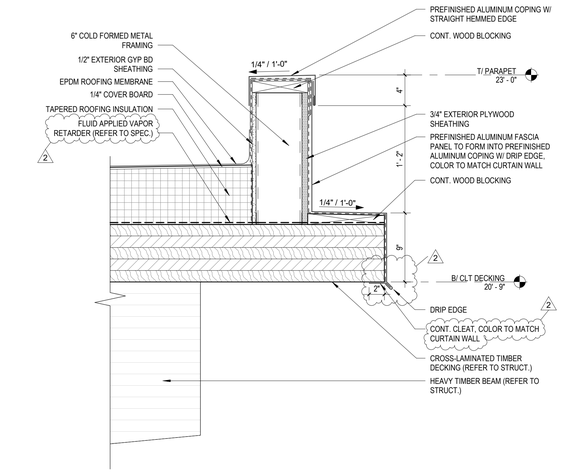
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

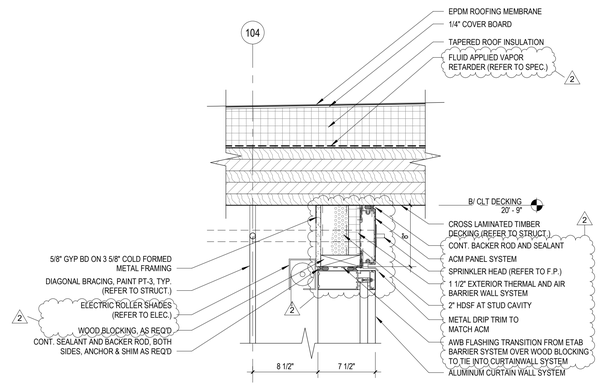
SHEET TITLE:
WALL SECTIONS

SHEET NUMBER:
A6.04

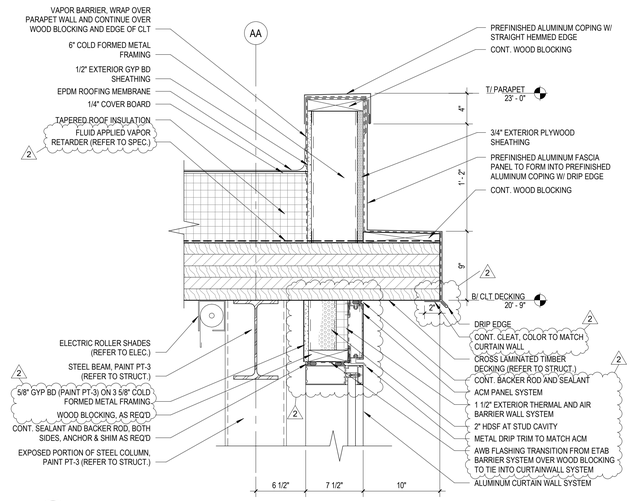
5/30/2025 2:56:39 PM



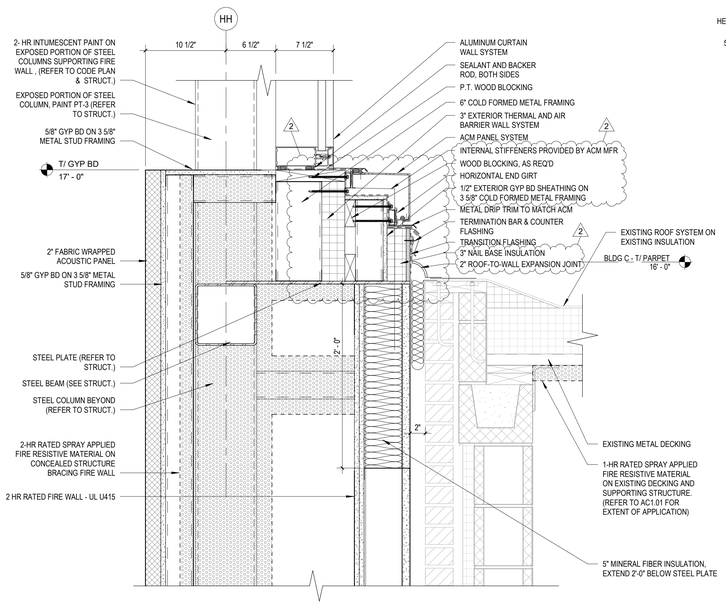
1 SECTION DETAIL - CLT PARAPET - NORTH/SOUTH
1 1/2" = 1'-0"



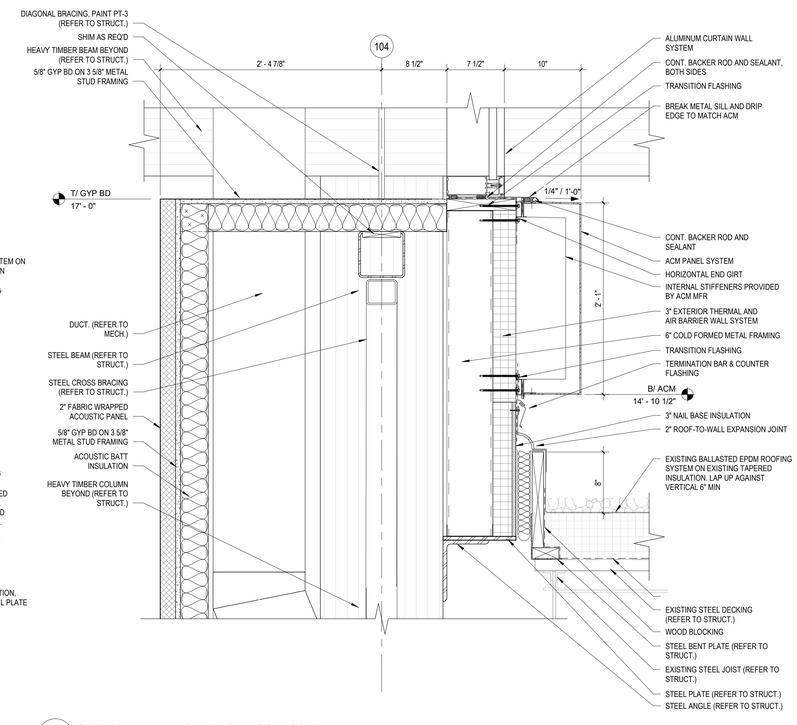
2 SECTION DETAIL - CW HEAD AT CLT - SOUTH
1 1/2" = 1'-0"



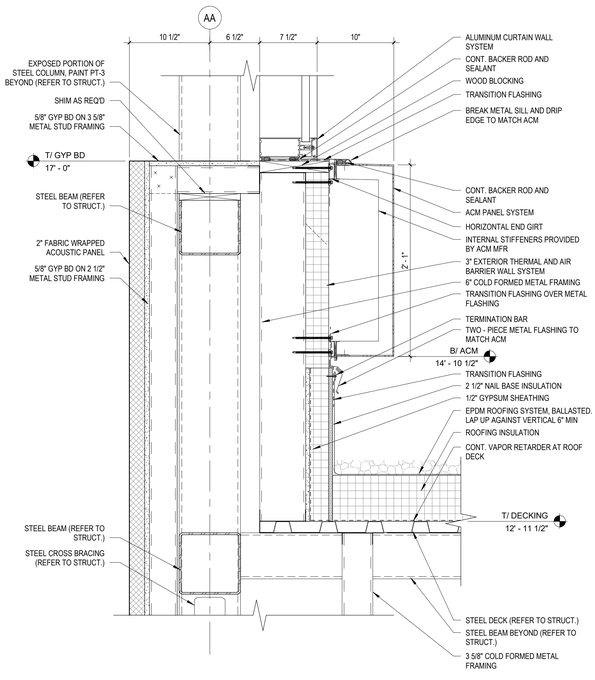
3 SECTION - CLT PARAPET - EAST/WEST 1
1 1/2" = 1'-0"



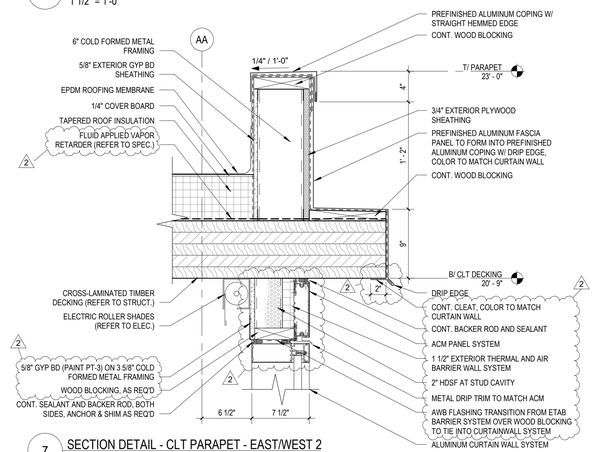
4 SECTION DETAIL - EXPANSION JOINT AT BLDG C ROOF
1 1/2" = 1'-0"



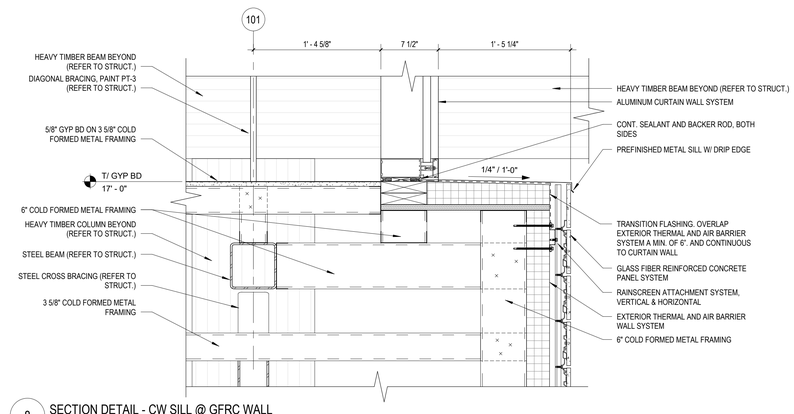
5 SECTION DETAIL - ACM AT LOW ROOF - SOUTH
1 1/2" = 1'-0"



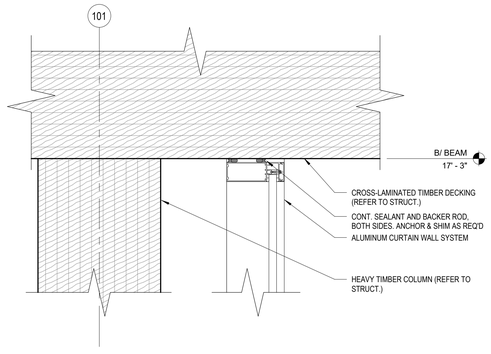
6 SECTION DETAIL - ACM AT LOW ROOF - WEST
1 1/2" = 1'-0"



7 SECTION DETAIL - CLT PARAPET - EAST/WEST 2
1 1/2" = 1'-0"



8 SECTION DETAIL - CW SILL @ GFRC WALL
1 1/2" = 1'-0"



9 SECTION DETAIL - CW UNDER HEAVY TIMBER BEAM
1 1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

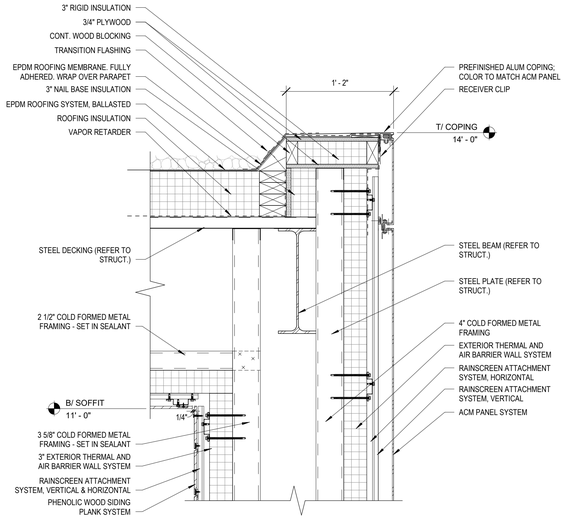
SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	5/30/25

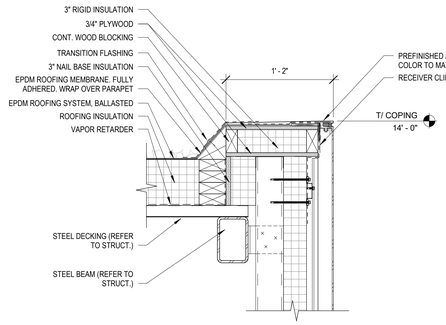
SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A7.01

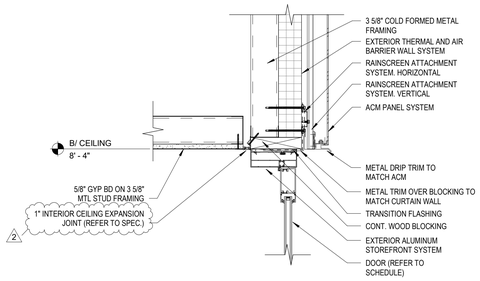
5/30/2025 2:56:40 PM



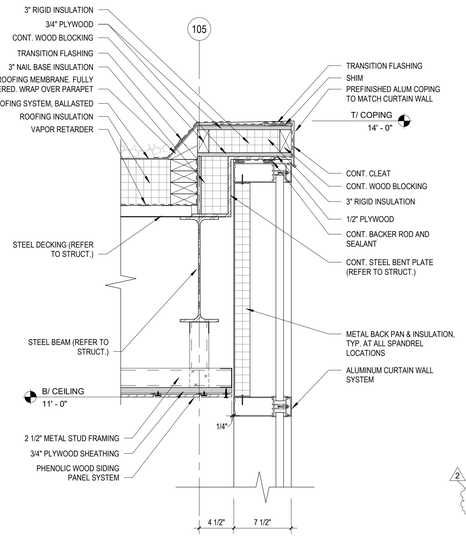
1 SECTION DETAIL - WING WALL PARAPET
1 1/2" = 1'-0"



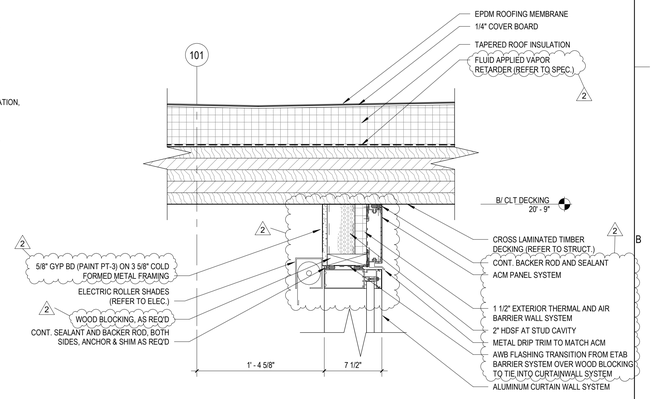
2 SECTION DETAIL - ACM GRAVEL STOP
1 1/2" = 1'-0"



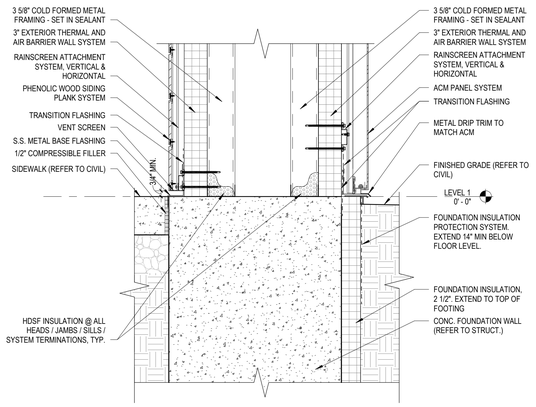
3 SECTION DETAIL - EXTERIOR SF HEAD AT ACM
1 1/2" = 1'-0"



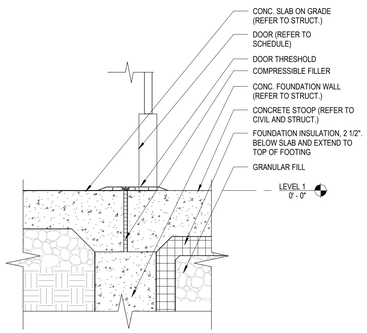
4 SECTION DETAIL - COPING AT SPANDREL GLASS
1 1/2" = 1'-0"



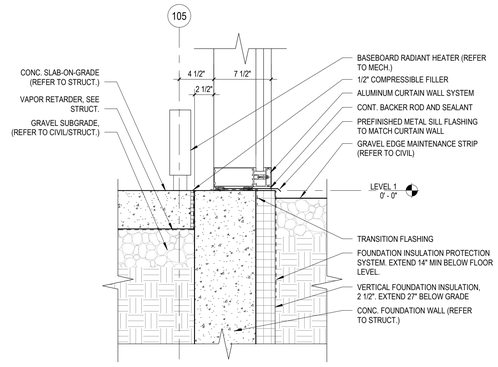
5 SECTION DETAIL - CW HEAD AT CLT - NORTH
1 1/2" = 1'-0"



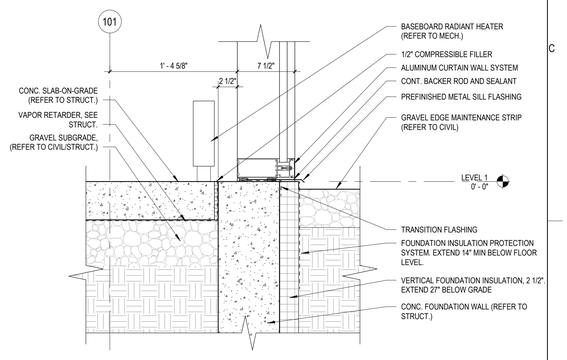
6 SECTION DETAIL - WING WALL SILL
1 1/2" = 1'-0"



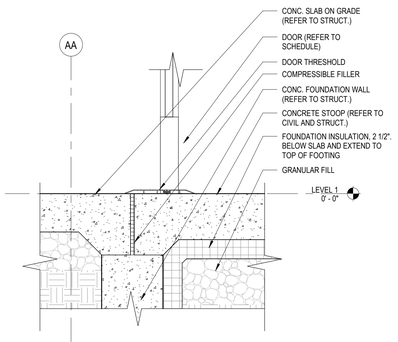
7 SECTION DETAIL - EXTERIOR SF SILL
1 1/2" = 1'-0"



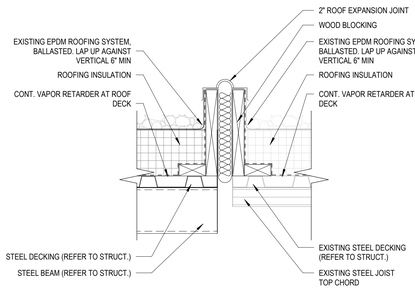
8 SECTION DETAIL - CW SILL 1
1 1/2" = 1'-0"



9 SECTION DETAIL CURTAIN WALL SILL
1 1/2" = 1'-0"



10 SECTION DETAIL - CURTAIN WALL DOOR SILL
1 1/2" = 1'-0"



11 ROOF DETAIL - ROOF TO EXISTING ROOF EXPANSION JOINT
1 1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

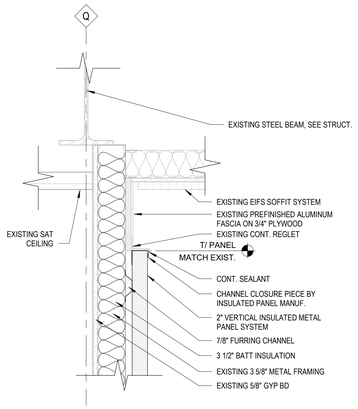
SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	5/30/25

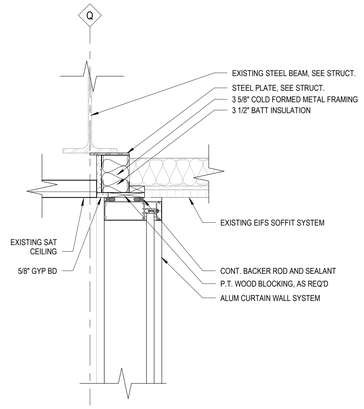
SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A7.02

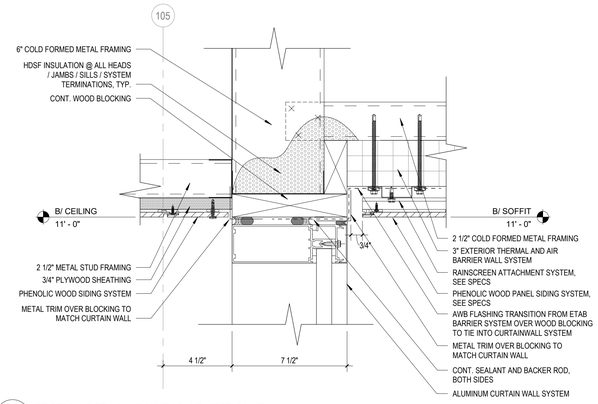
5/30/2025 2:56:41 PM



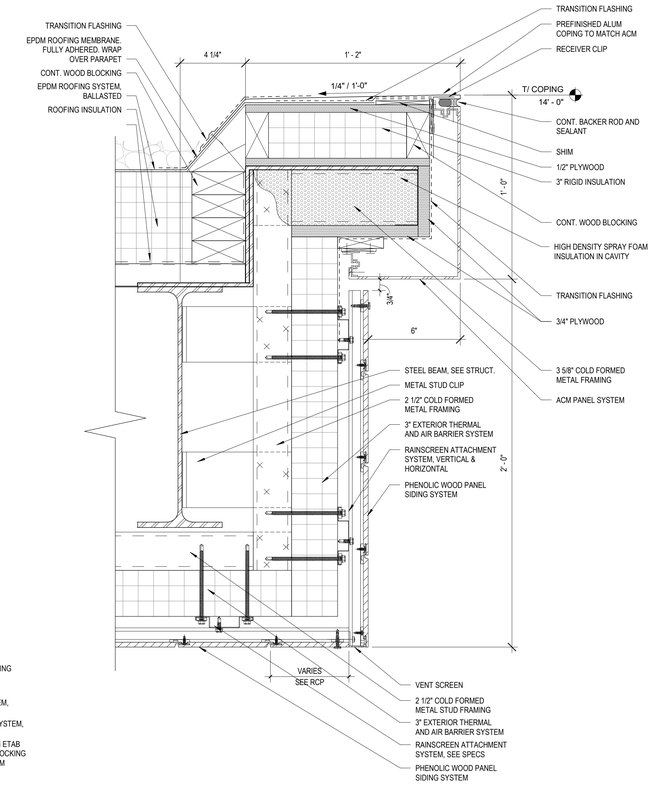
1 SECTION DETAIL - INSULATED METAL PANEL AT SOFFIT
1 1/2" = 1'-0"



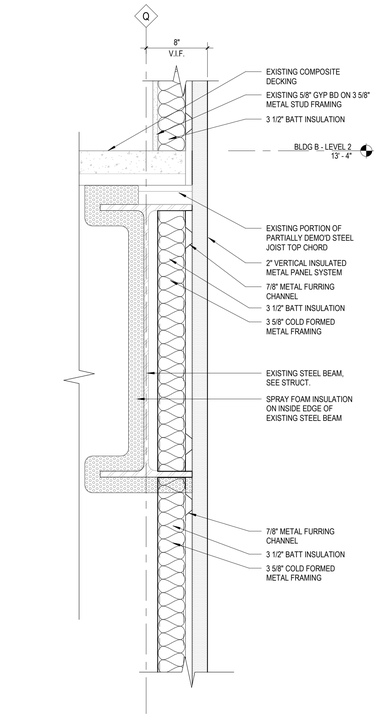
2 SECTION DETAIL - CURTAIN WALL AT EXIST SOFFIT
1 1/2" = 1'-0"



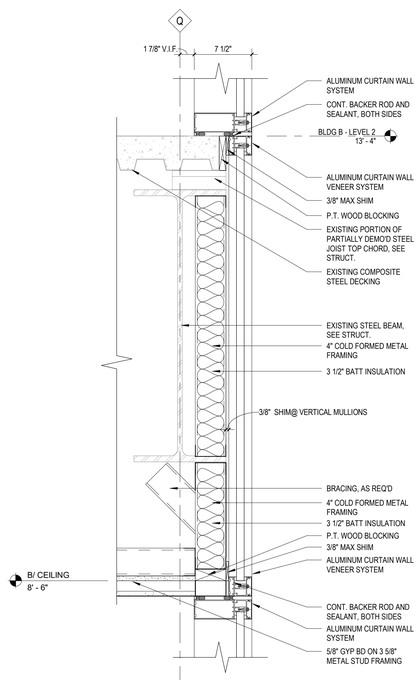
3 SECTION DETAIL - CW HEAD AT VESTIBULE
3" = 1'-0"



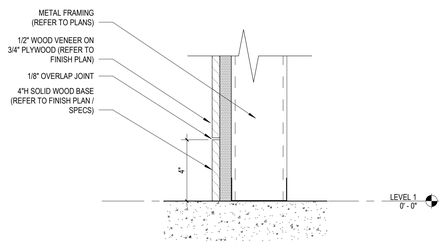
4 SECTION DETAIL - ACM SURROUND
3" = 1'-0"



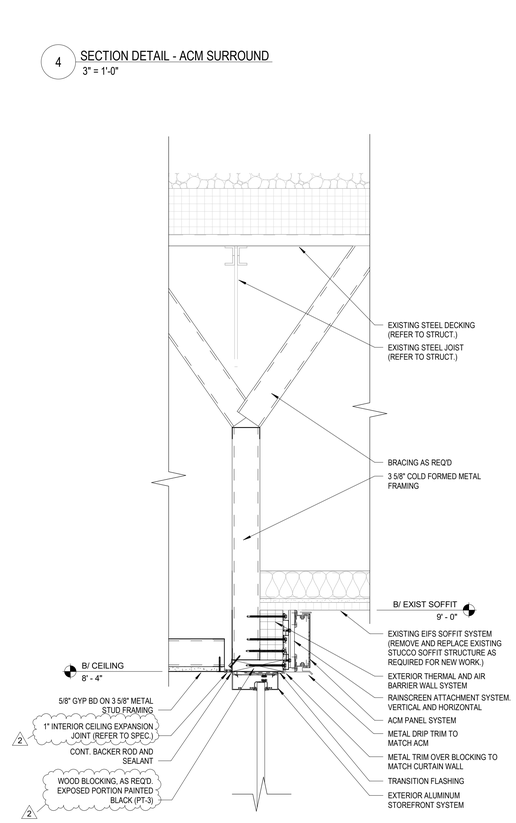
5 SECTION DETAIL - INSULATED METAL PANEL AT EXIST BEAM
1 1/2" = 1'-0"



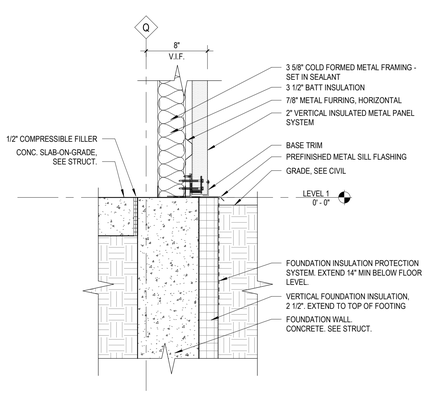
6 SECTION DETAIL - CURTAIN WALL AT EXIST BEAM
1 1/2" = 1'-0"



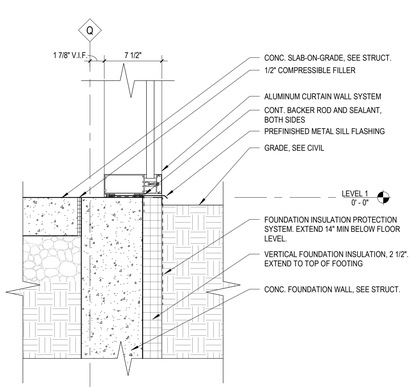
7 SECTION DETAIL - FLUSH WOOD PANEL SYSTEM BASE
3" = 1'-0"



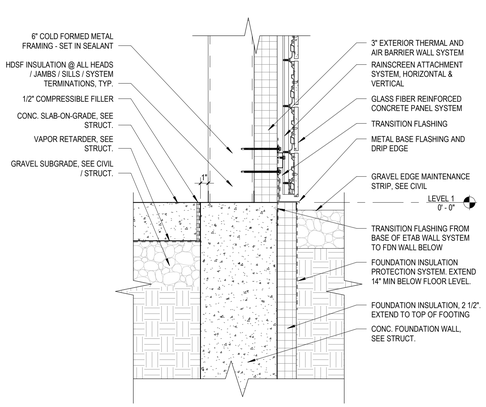
11 SECTION DETAIL - ACM AT EXISTING SOFFIT
1 1/2" = 1'-0"



8 SECTION DETAIL - INSULATED METAL PANEL SILL
1 1/2" = 1'-0"



9 SECTION DETAIL - CURTAIN WALL SILL AT INFILL
1 1/2" = 1'-0"



10 SECTION DETAIL - GFRC SILL
1 1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1776

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

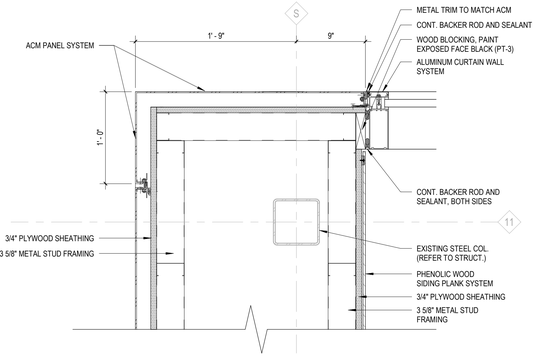
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

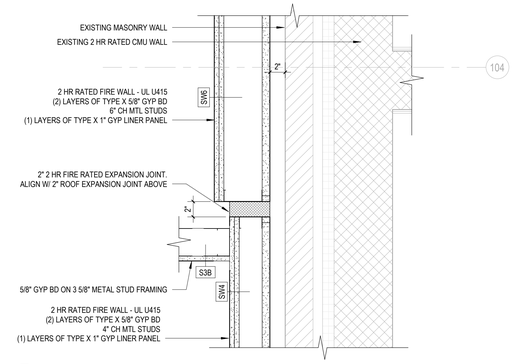
SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A7.03

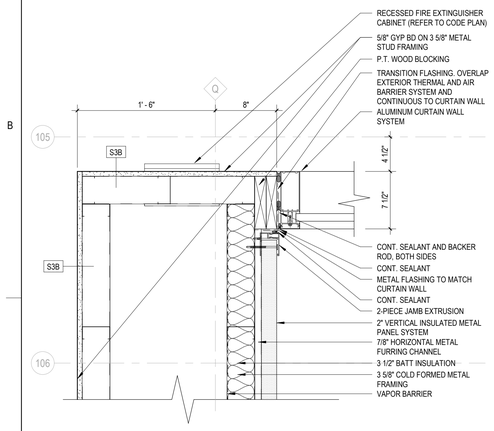
5/30/2025 2:56:42 PM



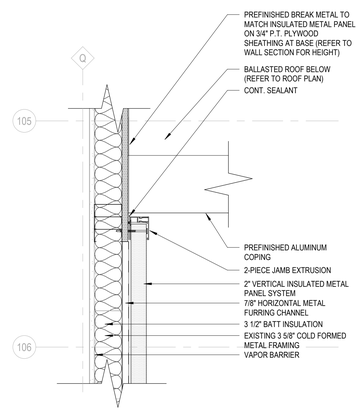
2 PLAN DETAIL - ENTRY WEST WALL
1 1/2" = 1'-0"



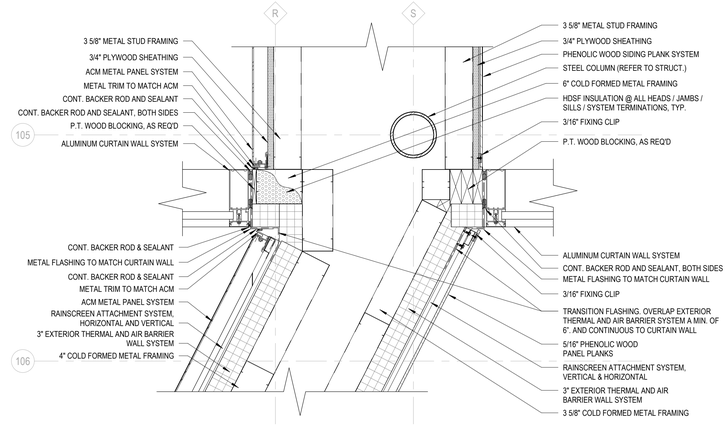
3 PLAN DETAIL - SHAFT WALL CONNECTION
1 1/2" = 1'-0"



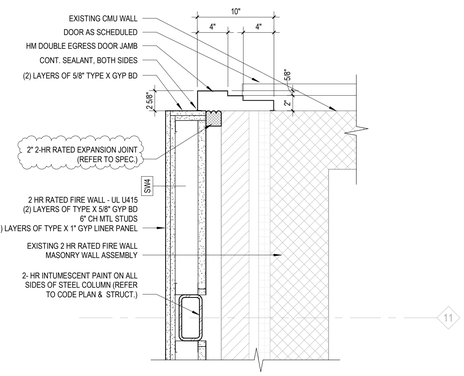
4 PLAN DETAIL - CW JAMB AT INFILL - 1ST FL. 1
1 1/2" = 1'-0"



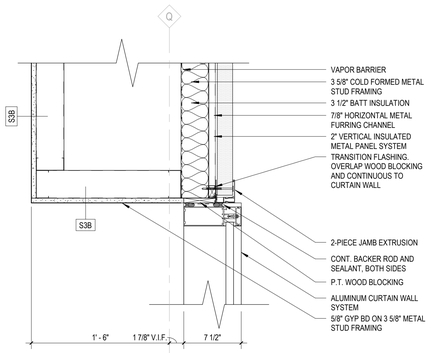
5 PLAN DETAIL CW JAMB AT INFILL - 2ND FL. 1
1 1/2" = 1'-0"



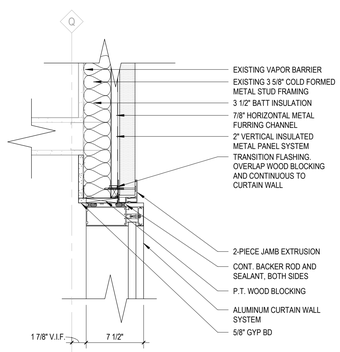
6 PLAN DETAIL - CW JAMB AT WING WALL
1 1/2" = 1'-0"



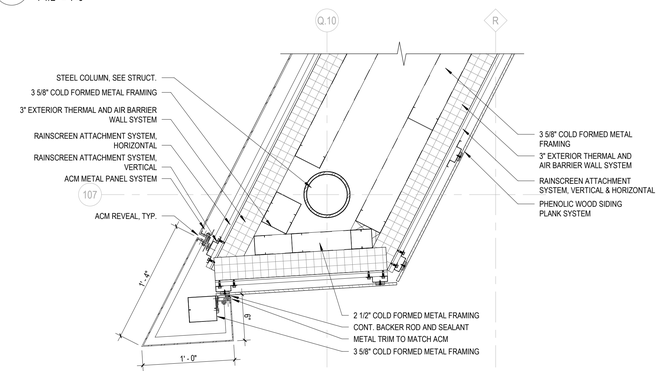
7 PLAN DETAIL - CONNECTING LINK TO BLDG C
1 1/2" = 1'-0"



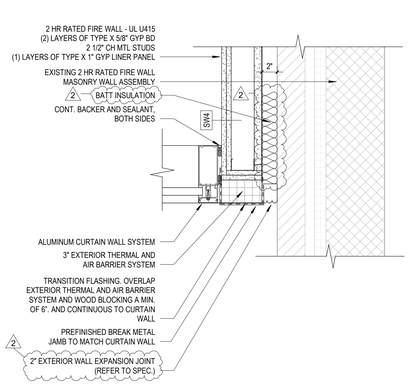
8 PLAN DETAIL - CW JAMB AT INFILL - 1ST FL. 2
1 1/2" = 1'-0"



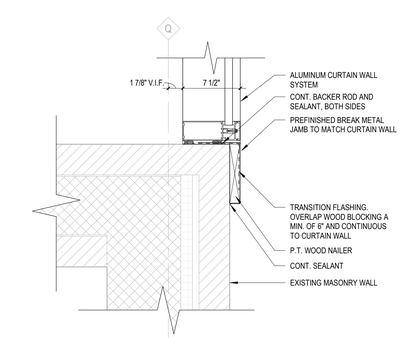
9 PLAN DETAIL - CW JAMB AT INFILL - 2ND FL. 2
1 1/2" = 1'-0"



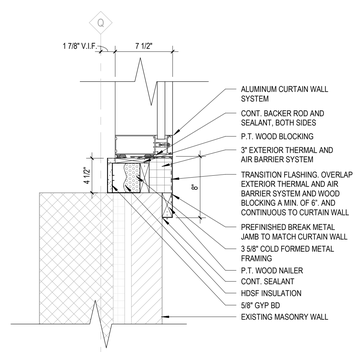
10 PLAN DETAIL - WING WALL
1 1/2" = 1'-0"



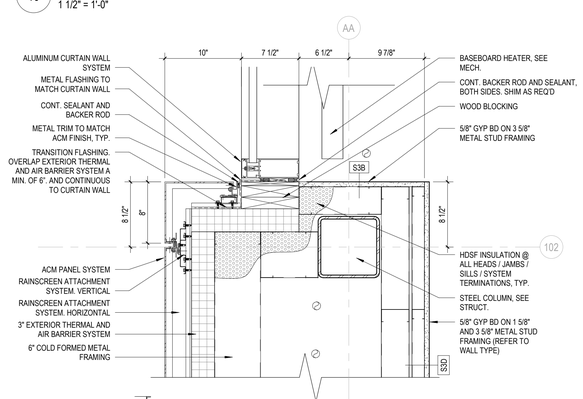
11 PLAN DETAIL - CW @ BLDG C
1 1/2" = 1'-0"



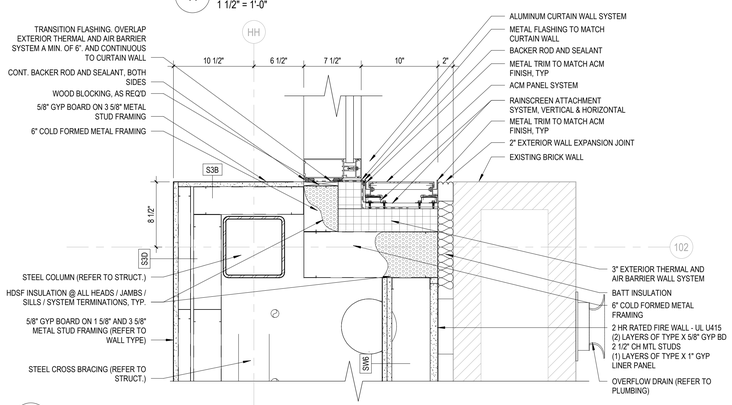
12 PLAN DETAIL - CW JAMB AT EXIST BRICK - 1ST FL.
1 1/2" = 1'-0"



13 PLAN DETAIL - CW JAMB AT EXIST BRICK 2ND FL.
1 1/2" = 1'-0"



14 PLAN DETAIL - COL AA-102
1 1/2" = 1'-0"



15 PLAN DETAIL - COL HH-102
1 1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

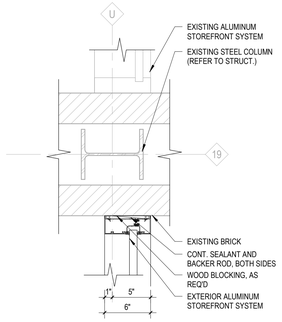
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

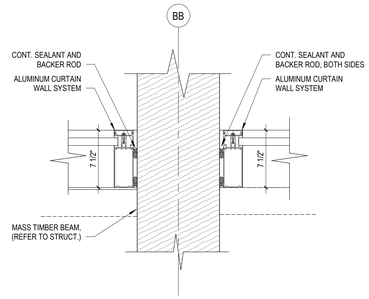
SHEET TITLE:
PLAN DETAILS

SHEET NUMBER:
A7.51

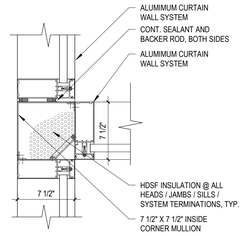
5/30/2025 2:56:43 PM



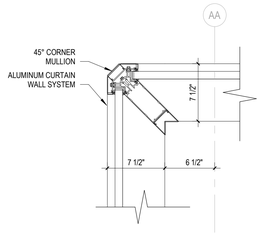
1 PLAN DETAIL - COL U-19
1 1/2" = 1'-0"



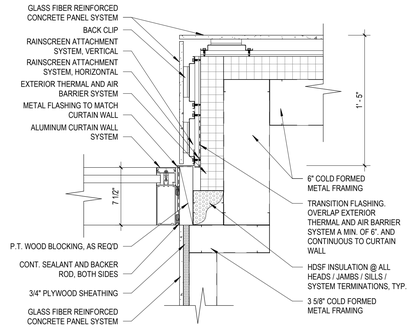
2 PLAN DETAIL - CW JAMB AT MASS TIMBER BEAM
1 1/2" = 1'-0"



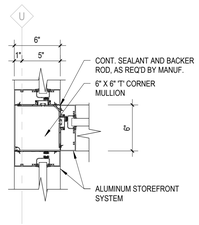
3 PLAN DETAIL - CURTAIN WALL T-CORNER
1 1/2" = 1'-0"



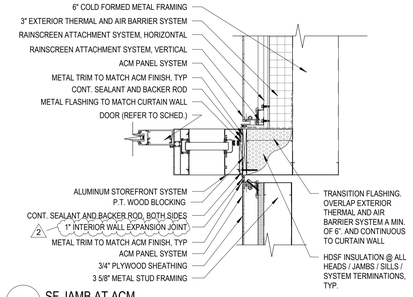
4 PLAN DETAIL - CW OUTSIDE CORNER MULLION
1 1/2" = 1'-0"



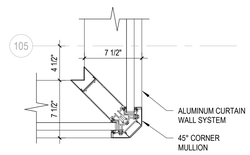
5 PLAN DETAIL - GFRC EXTERIOR CORNER
1 1/2" = 1'-0"



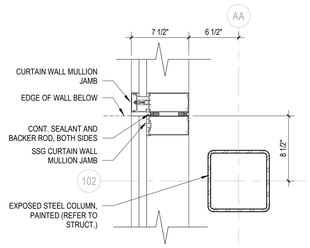
6 PLAN DETAIL - STOREFRONT T-CORNER
1 1/2" = 1'-0"



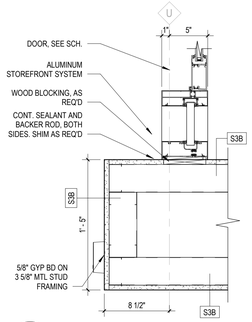
7 SF JAMB AT ACM
1 1/2" = 1'-0"



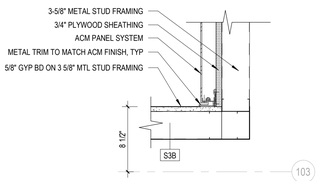
8 PLAN DETAIL - CURTAIN WALL OUTSIDE CORNER
1 1/2" = 1'-0"



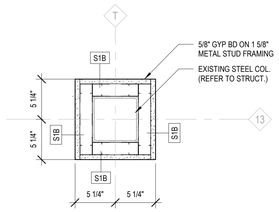
9 PLAN DETAIL - SSG AND CAPPED MULLION JAMB
1 1/2" = 1'-0"



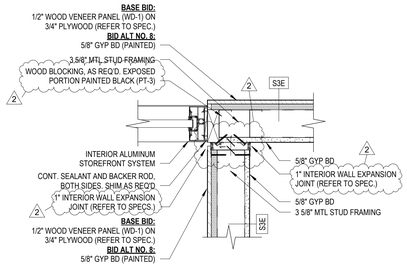
10 PLAN DETAIL - COL U-103
1 1/2" = 1'-0"



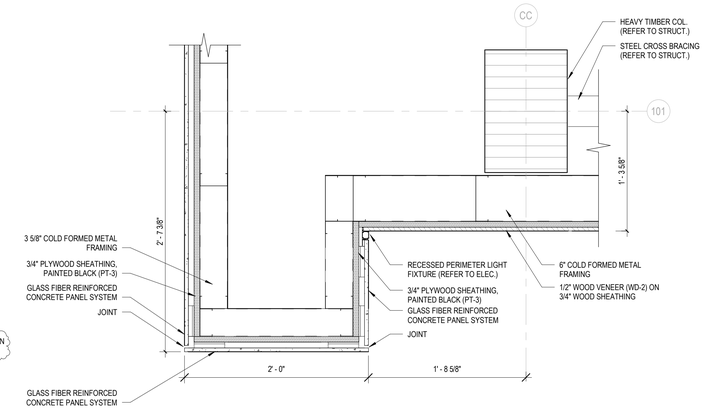
11 PLAN DETAIL - ACM - INSIDE CORNER
1 1/2" = 1'-0"



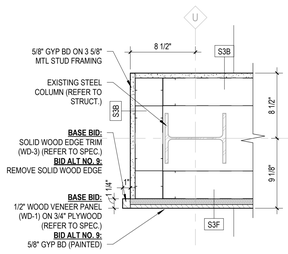
12 PLAN DETAIL - COL 13-T
1 1/2" = 1'-0"



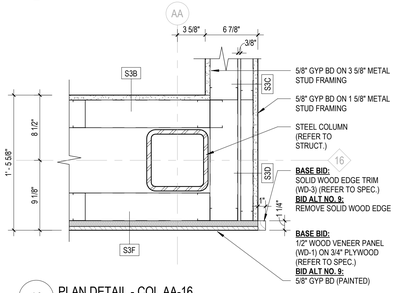
13 PLAN DETAIL - SF JAMB AT SOUTH EVENT CENTER
1 1/2" = 1'-0"



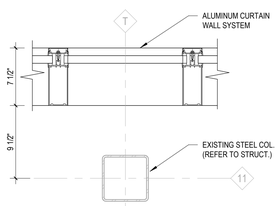
14 1PLAN DETAIL - GFRC INTERIOR CORNER
1 1/2" = 1'-0"



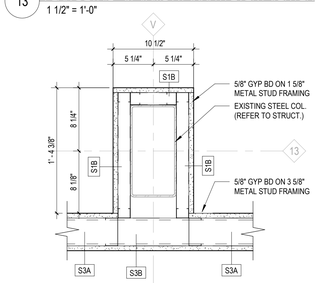
15 PLAN DETAIL - COL U-16
1 1/2" = 1'-0"



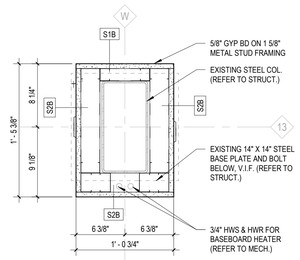
16 PLAN DETAIL - COL AA-16
1 1/2" = 1'-0"



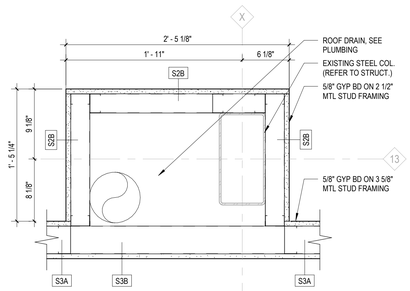
17 PLAN DETAIL - COL T-11
1 1/2" = 1'-0"



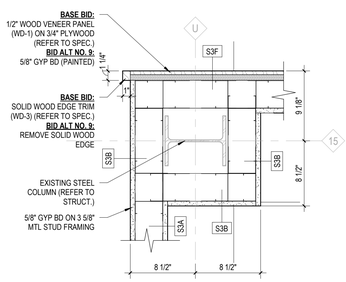
18 PLAN DETAIL - COL 13-V
1 1/2" = 1'-0"



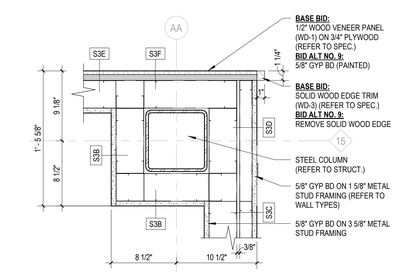
19 PLAN DETAIL - COL 13-W
1 1/2" = 1'-0"



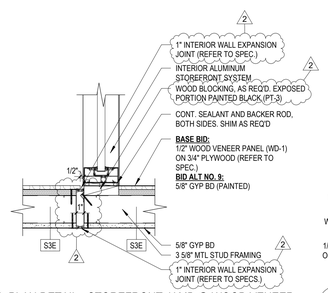
20 PLAN DETAIL - COL 13-X
1 1/2" = 1'-0"



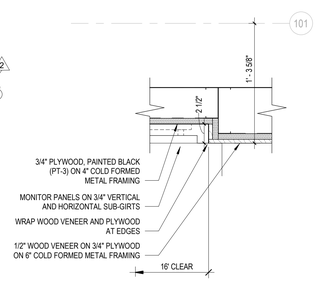
21 PLAN DETAIL - COL U-15
1 1/2" = 1'-0"



22 PLAN DETAIL - COL AA-15
1 1/2" = 1'-0"



23 PLAN DETAIL - STOREFRONT JAMB @ WOOD VENEER
1 1/2" = 1'-0"



24 PLAN DETAIL - DISPLAY WALL EDGE
1 1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

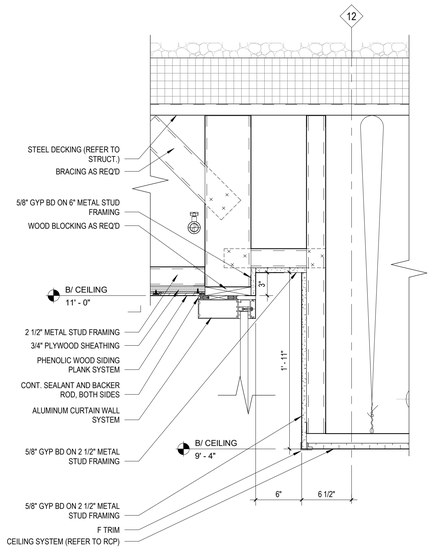
SHEET TITLE:

PLAN DETAILS

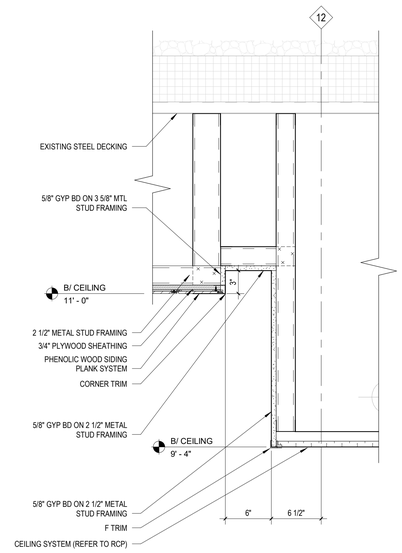
SHEET NUMBER:

A7.52

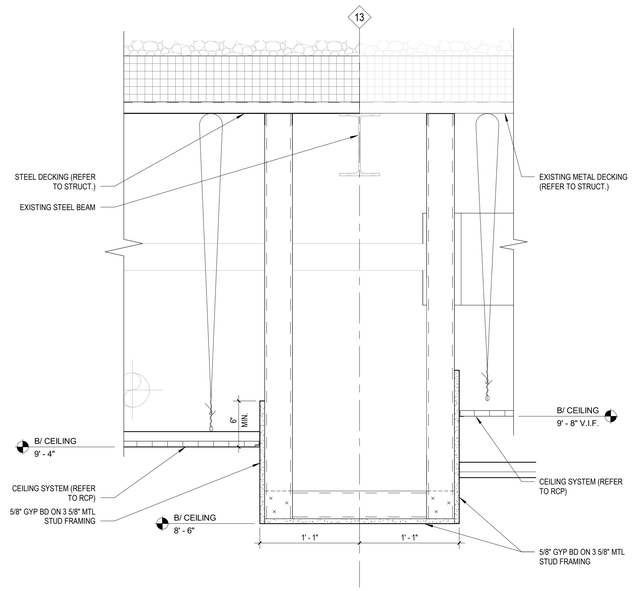
5/30/2025 2:56:44 PM



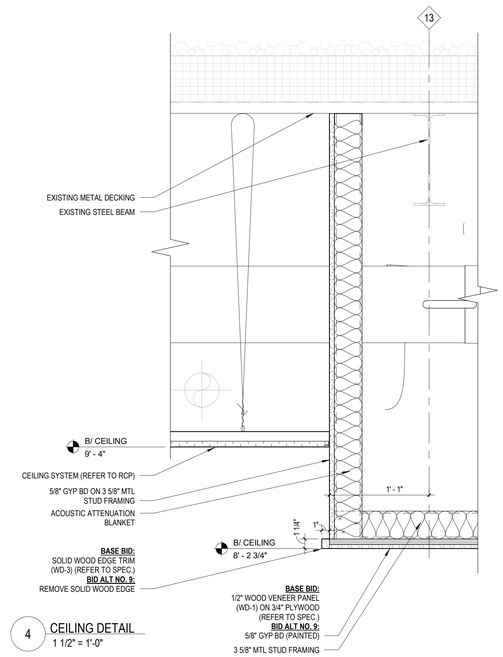
1 CEILING DETAIL
1 1/2" = 1'-0"



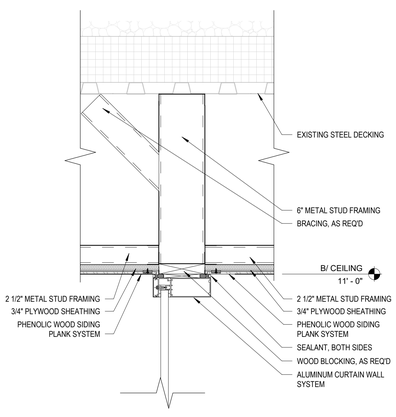
2 CEILING DETAIL
1 1/2" = 1'-0"



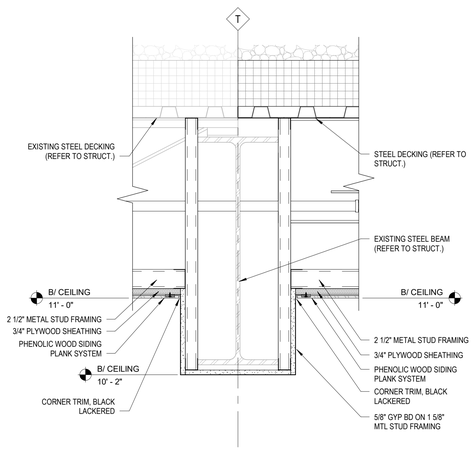
3 CEILING DETAIL
1 1/2" = 1'-0"



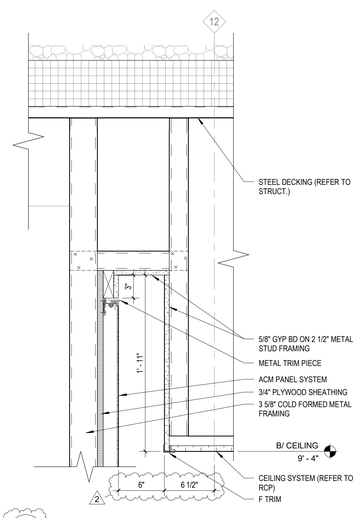
4 CEILING DETAIL
1 1/2" = 1'-0"



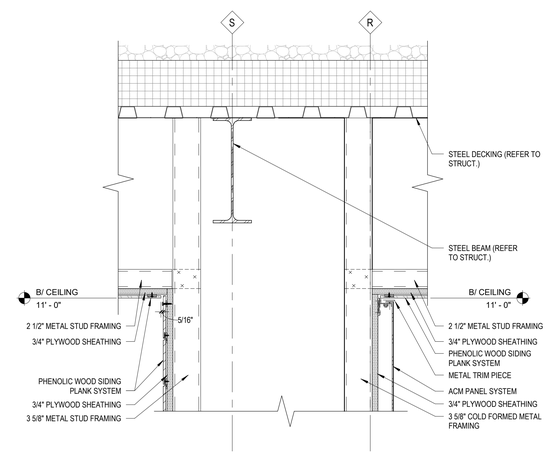
5 CEILING DETAIL
1 1/2" = 1'-0"



6 CEILING DETAIL
1 1/2" = 1'-0"



7 CEILING DETAIL
1 1/2" = 1'-0"
2



8 CEILING DETAIL
1 1/2" = 1'-0"
2

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

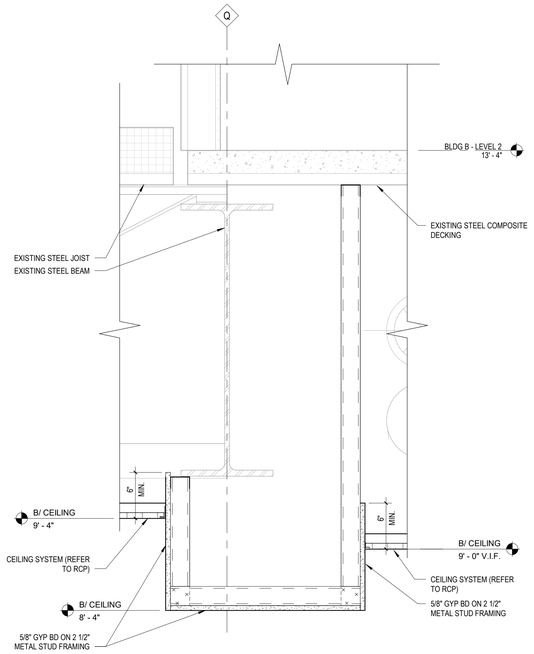
SHEET TITLE:

CEILING DETAILS

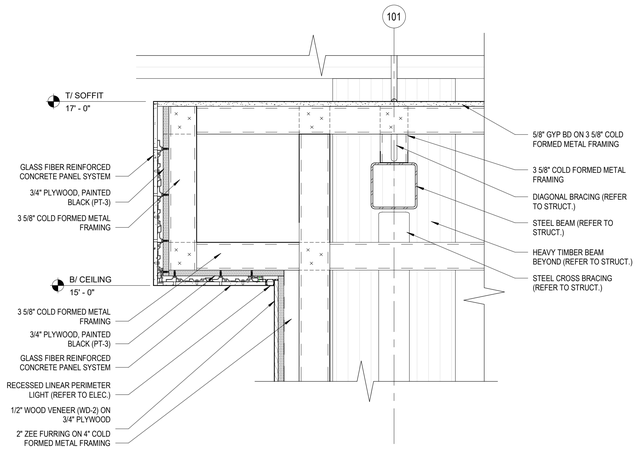
SHEET NUMBER:

A7.71

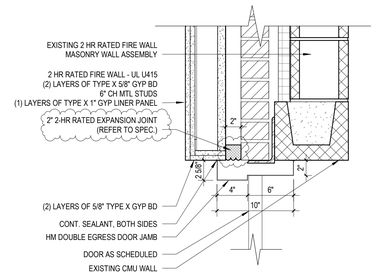
5/30/2025 2:56:45 PM



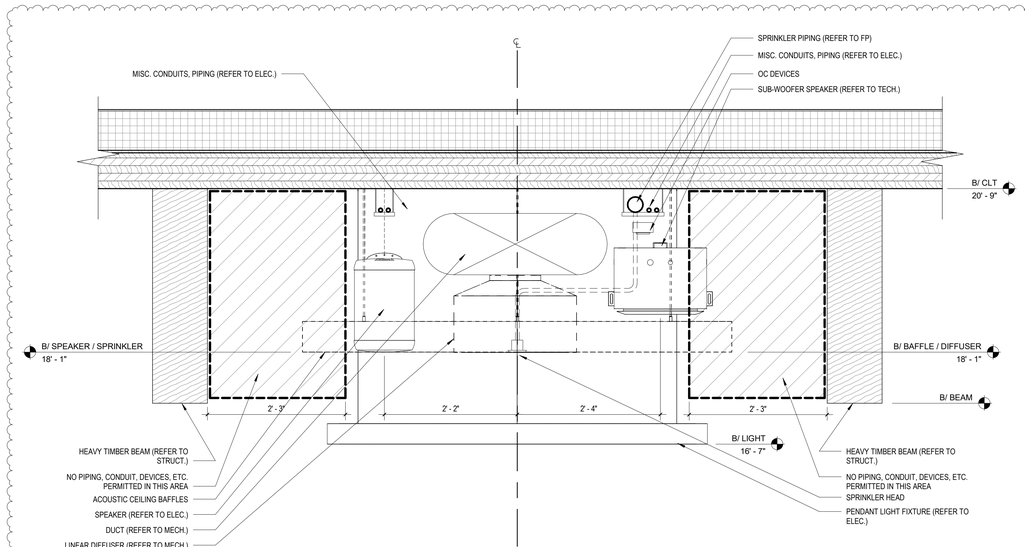
1 CEILING DETAIL
1 1/2" = 1'-0"



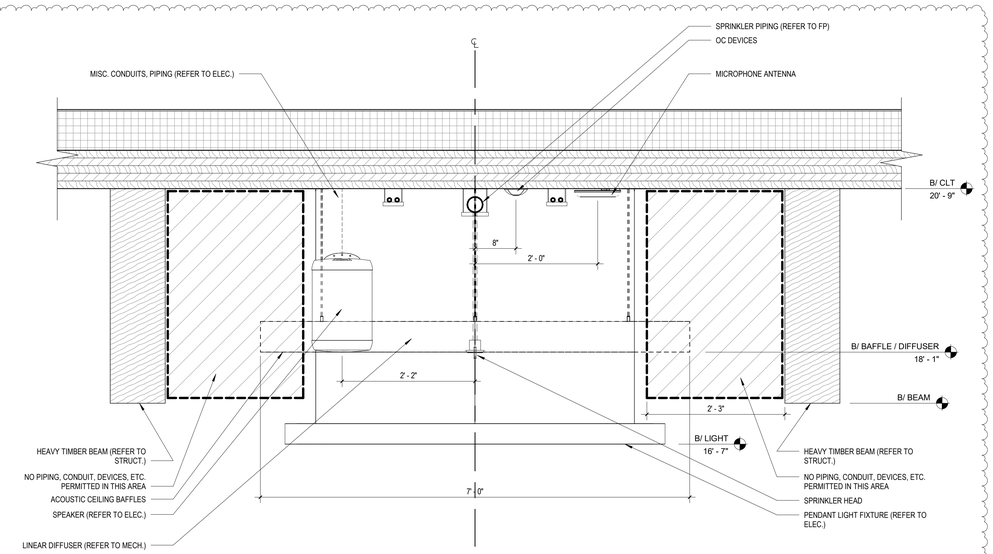
2 CEILING DETAIL - NORTH WALL
1 1/2" = 1'-0"



3 CEILING DETAIL - DOUBLE EGRESS DOOR HEAD
1 1/2" = 1'-0"



4 CEILING DETAIL - TYPICAL MOUNTING HEIGHTS AT CLT
1" = 1'-0"



5 CEILING DETAIL - TYPICAL MOUNTING HEIGHTS AT CLT - NO DUCTWORK
1" = 1'-0"

2

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

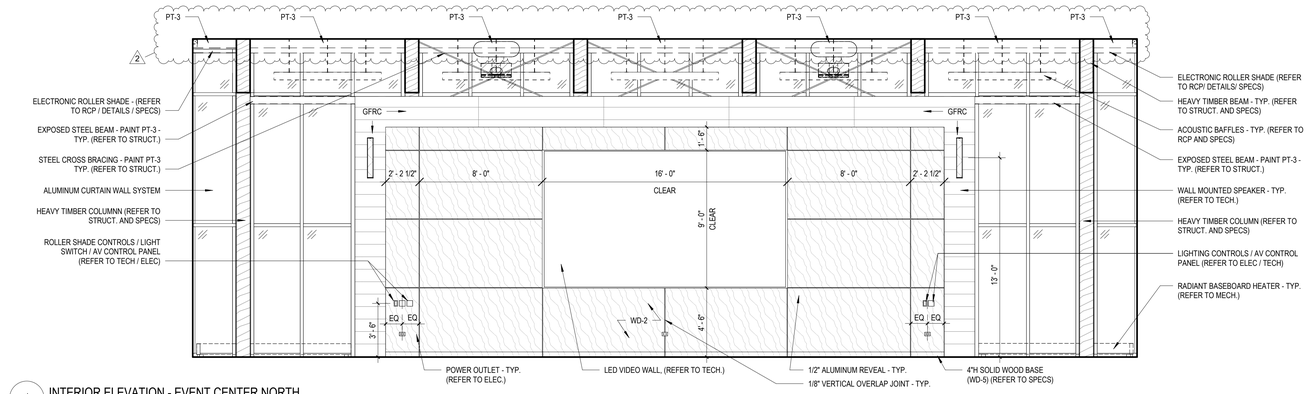
SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

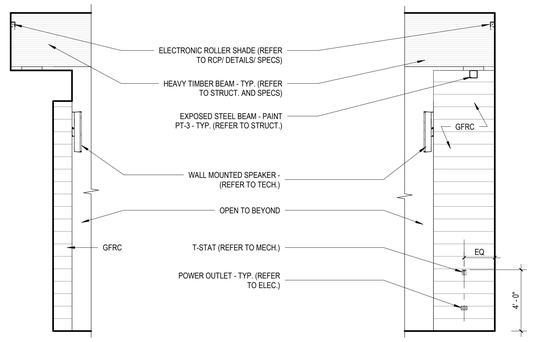
SHEET TITLE:
CEILING DETAILS

SHEET NUMBER:
A7.73

5/30/2025 2:56:47 PM

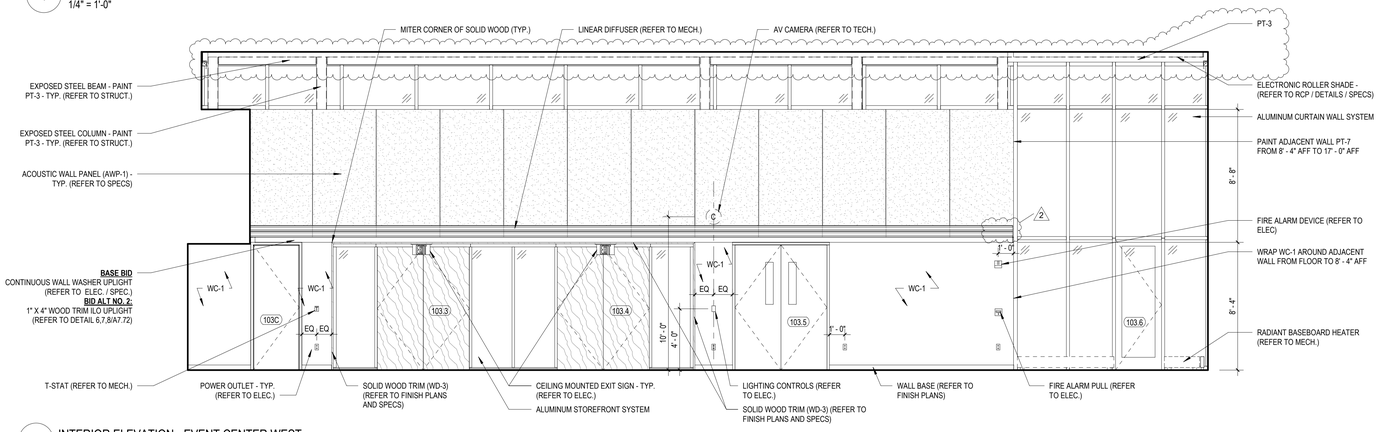


1 INTERIOR ELEVATION - EVENT CENTER NORTH
1/4" = 1'-0"

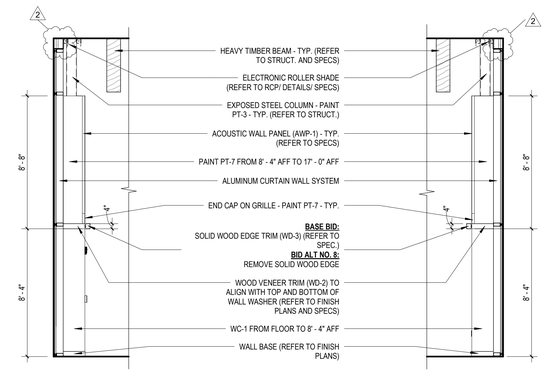


2 INTERIOR ELEVATION - EVENT CENTER NORTH - A
1/4" = 1'-0"

3 INTERIOR ELEVATION - EVENT CENTER NORTH - B
1/4" = 1'-0"

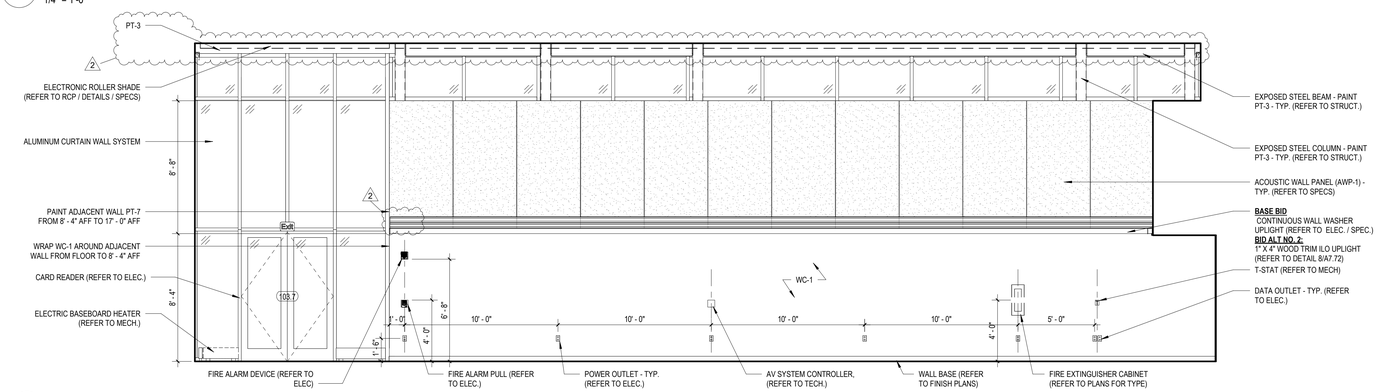


4 INTERIOR ELEVATION - EVENT CENTER WEST
1/4" = 1'-0"

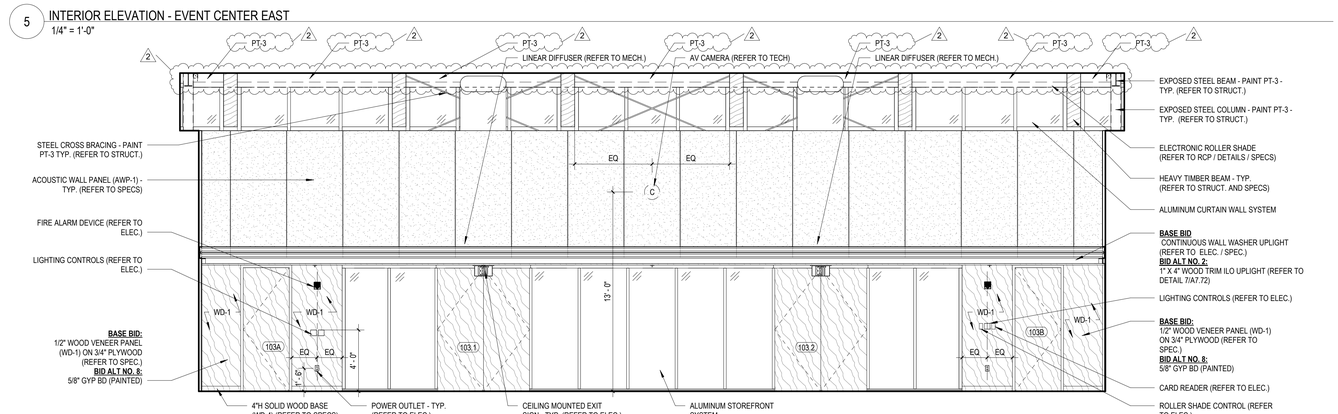


7 INTERIOR ELEVATION - EVENT CENTER SOUTH - A
1/4" = 1'-0"

8 INTERIOR ELEVATION - EVENT CENTER SOUTH - B
1/4" = 1'-0"



5 INTERIOR ELEVATION - EVENT CENTER EAST
1/4" = 1'-0"



6 INTERIOR ELEVATION - EVENT CENTER SOUTH
1/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

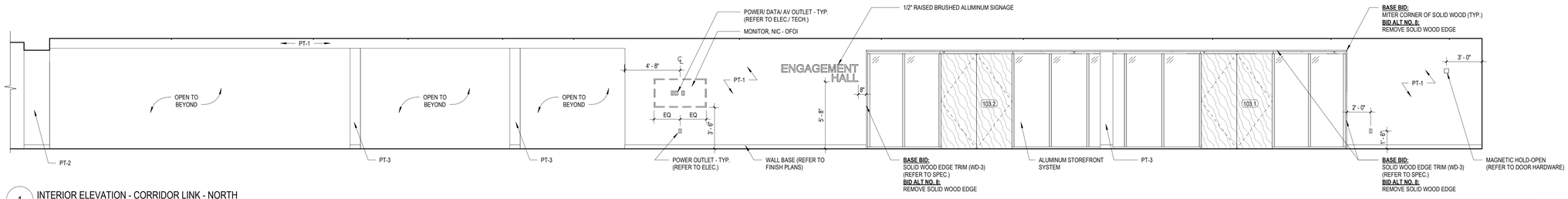
SHEET TITLE:

INTERIOR ELEVATIONS - EVENT CENTER

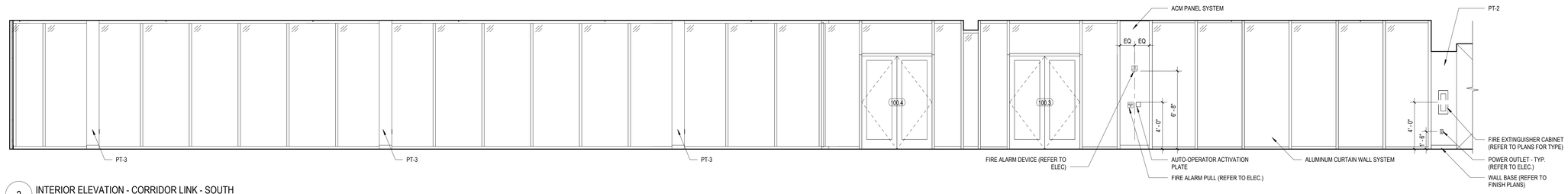
SHEET NUMBER:

A9.01

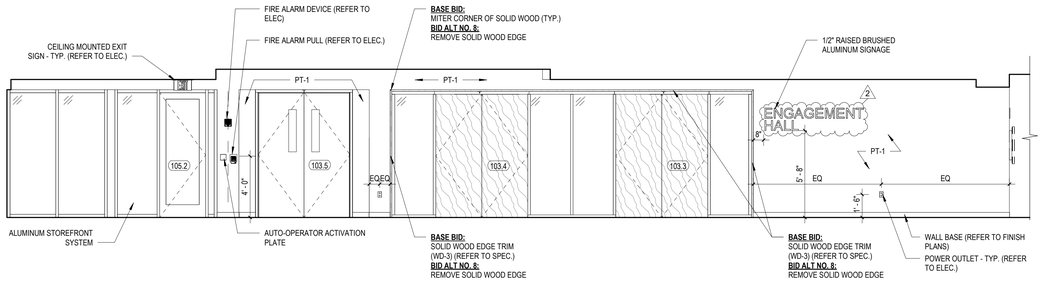
5/30/2025 2:56:49 PM



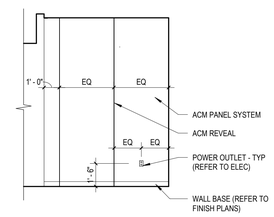
1 INTERIOR ELEVATION - CORRIDOR LINK - NORTH
1/4" = 1'-0"



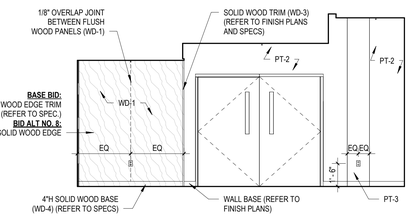
2 INTERIOR ELEVATION - CORRIDOR LINK - SOUTH
1/4" = 1'-0"



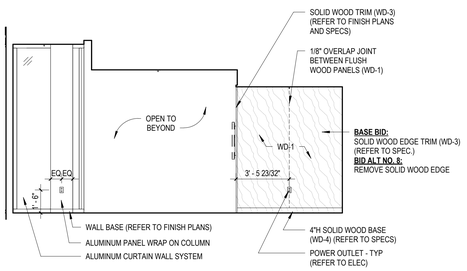
3 INTERIOR ELEVATION - DINING EAST
1/4" = 1'-0"



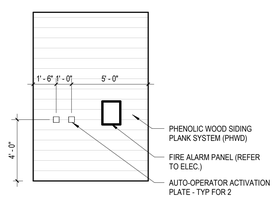
4 INTERIOR ELEVATION - CORRIDOR LINK - EAST 2
1/4" = 1'-0"



5 INTERIOR ELEVATION - CORRIDOR LINK - EAST
1/4" = 1'-0"



6 INTERIOR ELEVATION - CORRIDOR LINK - WEST
1/4" = 1'-0"



7 INTERIOR ELEVATION - VESTIBULE - WEST
1/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM 1	05/27/25
2	ADDENDUM 2	5/30/25

SHEET TITLE:

INTERIOR ELEVATIONS - ENTRY

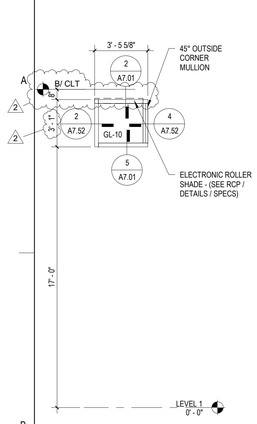
SHEET NUMBER:

A9.02

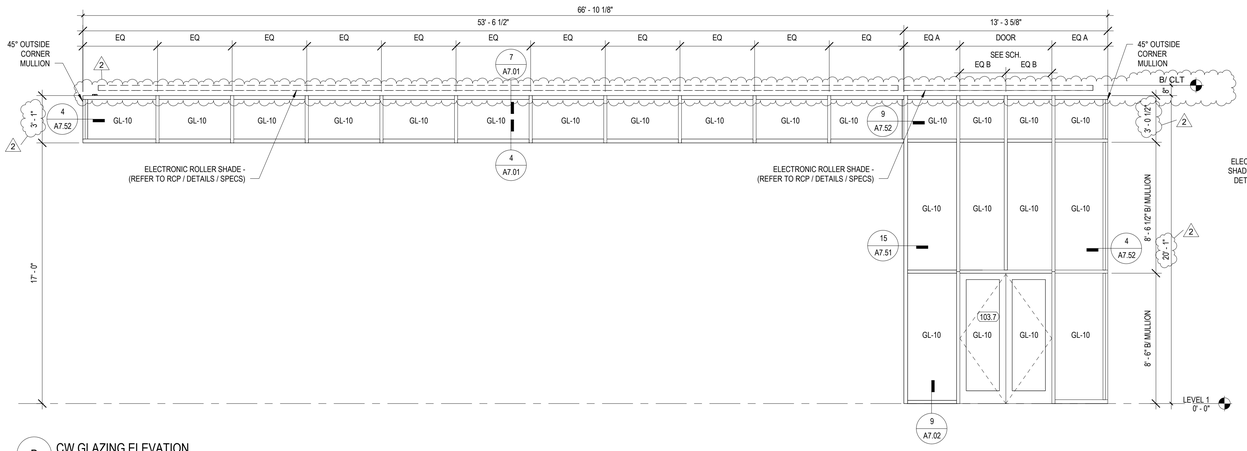
5/30/2025 2:56:50 PM

GLAZING SCHEDULE

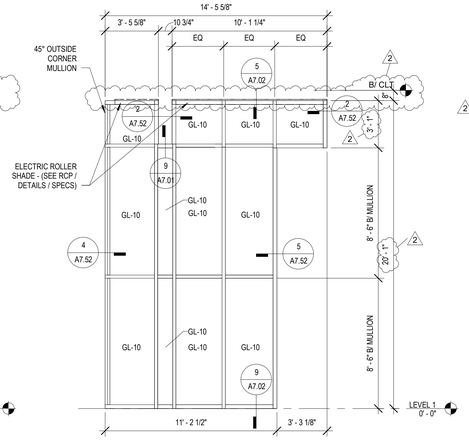
GL-04	9/16" CLEAR LAMINATED GLASS - STC 39
GL-10	1" INSULATED, TEMPERED CLEAR GLASS
GL-11	1" INSULATED, TEMPERED SPANDREL



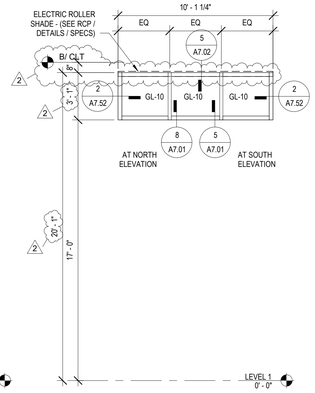
A CW GLAZING ELEVATION
1/4" = 1'-0"



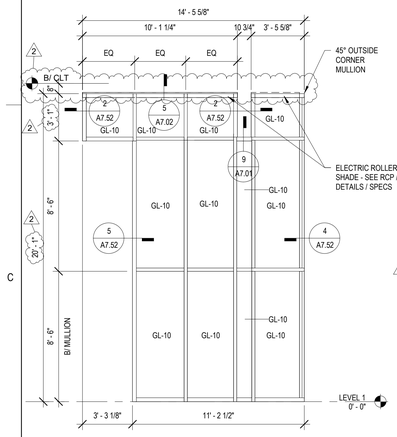
B CW GLAZING ELEVATION
1/4" = 1'-0"



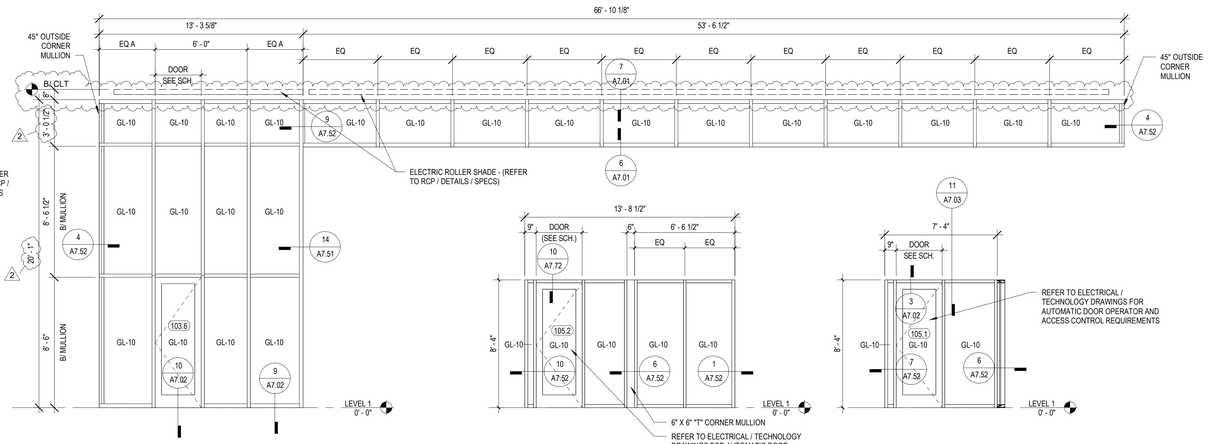
C CW GLAZING ELEVATION
1/4" = 1'-0"



D CW GLAZING ELEVATION
1/4" = 1'-0"



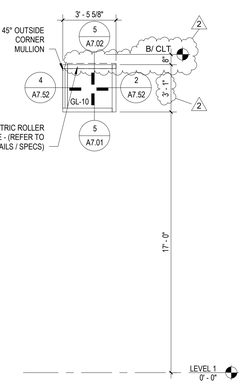
E CW GLAZING ELEVATION
1/4" = 1'-0"



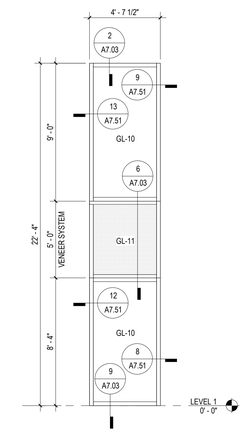
F CW GLAZING ELEVATION
1/4" = 1'-0"

G SF GLAZING ELEVATION
1/4" = 1'-0"

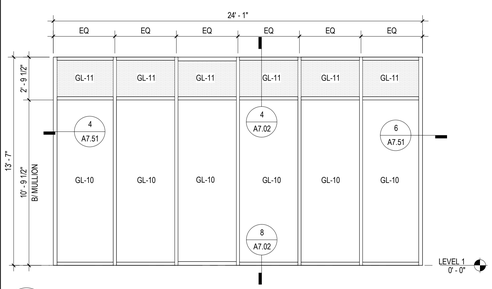
H SF GLAZING ELEVATION
1/4" = 1'-0"



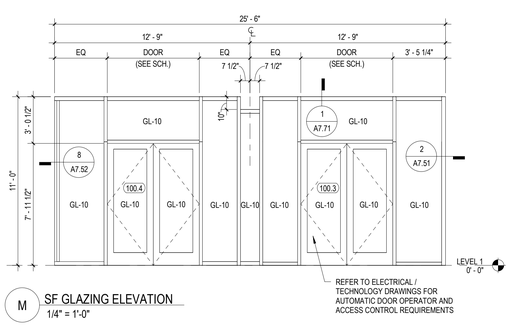
J CW GLAZING ELEVATION
1/4" = 1'-0"



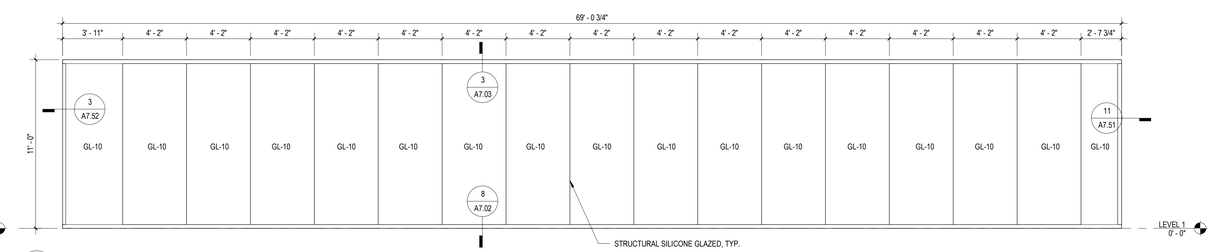
K CW GLAZING ELEVATION
1/4" = 1'-0"



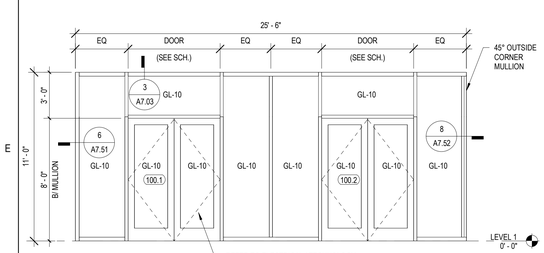
L CW GLAZING ELEVATION
1/4" = 1'-0"



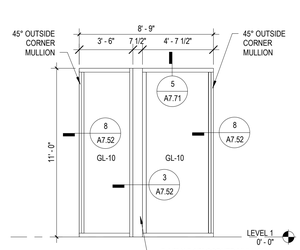
M SF GLAZING ELEVATION
1/4" = 1'-0"



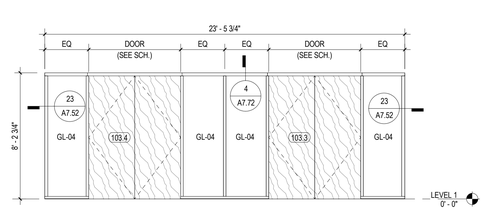
N SF GLAZING ELEVATION
1/4" = 1'-0"



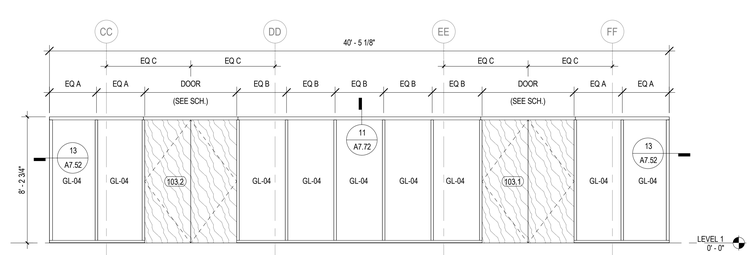
P SF GLAZING ELEVATION
1/4" = 1'-0"



Q SF GLAZING ELEVATION
1/4" = 1'-0"



AA SF GLAZING ELEVATION
1/4" = 1'-0"



BB SF GLAZING ELEVATION
1/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
2	ADDENDUM 2	5/30/25

SHEET TITLE:
GLAZING ELEVATIONS

SHEET NUMBER:
A10.10

5/30/2025 2:56:50 PM

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR.
TCC = TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE:
CB = CIRCUIT BREAKER
F = FUSED
NF = NON-FUSED

C. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.

D. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

E. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR
SAC = SOUND ATTENUATOR CURB

ROOFTOP UNIT SCHEDULE – GAS-DX - PROVIDED BY OWNER

NOTES:
1.PROVIDE SHAFT GROUNDING AS REQUIRED
2.LAT LISTED IS AT LEAVING SIDE OF COOLING COIL
3.PROVIDE WITH MODULATING HOT GAS REHEAT. HUMIDITY SENSOR PROVIDED WITH UNIT AND FIELD INSTALLED BY CONTRACTOR TO CONTROL THE SPACE RELATIVE HUMIDITY.
4.PROVIDE WITH FACTORY OUTDOOR AIRFLOW MEASURING STATION.
5. REFER TO SCOPE DOCUMENTS FROM CM FOR ALL WORK/SCOPE TO BE PREPURCHASED THROUGH TRANE.

					SUPPLY FAN (NOTE 3)						EXHAUST FAN (NOTE 1)						UNIT ELECTRICAL DATA								COOLING COIL - DX								HEATING - GAS								MAX.DIMENSIONS						
																						DISCONNECT(S)		CONTROLLER STARTER(S)																										
TAG NAME	AREA SERVED	NOMINAL TONS	MINIMUM OUTSIDE AIR (CFM)	MAXIMUM OUTSIDE AIR (CFM)	NO. OF FANS	CFM TOTAL	EXT S.P. IN W.C.	R P M	BHP EACH	MHP EACH	FAN CFM	FAN QTY	TYPE	FAN RPM	BHP EACH (NOTE C)	MHP EACH (NOTE C)	VOLTAGE	PHASES	FLA	MCA	MOCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	EAT DB °F	EAT WB °F	LAT DB °F (NOTE 2)	LAT WB °F (NOTE 2)	SENSIBLE MBH	TOTAL MBH	AMB TEMP °F	STAGES	MIN EFF ASUE	MIN INPUT MBH	MIN OUTPUT MBH	TURN DOWN/STEPS	MINIMUM FUEL PRESSURE in. WC	MAXIMUM FUEL PRESSURE in. WC	IEER	FILTER TYPE	CONTROL TYPE	CURB TYPE (NOTE E)	LENGTH	WIDTH	HEIGHT	OPERATING WEIGHT	MANUFACTURER	MODEL	NOTES
RTU-1	EVENT SPACE WEST	17.5	1860	2,800	2	6205	1.75	1350	1.8	3	0	1	DIRECT	1075	0.87	1	460	3	46.1	60	80	MFR	NF	MFR	5,000	81.0	68.0	55.9	55.0	154.4	248.9	95	2	81%	400	324	10:1	7	14	20.50	MERV 8	1/M3.0	MFR	10'-3"	7'-3"	5'-6"	2240	TRANE	YZK210	1,3,4,6
RTU-2	EVENT SPACE EAST	17.5	1815	2,725	2	6050	1.75	1350	1.8	3	0	1	DIRECT	1075	0.87	1	460	3	46.1	60	80	MFR	NF	MFR	5,000	81.0	68.0	55.9	55.0	115.5	154.0	95	2	81%	400	324	10:1	7	14	25.00	MERV 8	1/M3.0	MFR	10'-3"	7'-3"	5'-6"	2130	TRANE	YZK210	1,3,4,6

CABINET HEATER SCHEDULE - HOT WATER

NOTES:
1.COORDINATE COLOR SELECTION WITH ARCHITECT. PRIMED FOR FIELD PAINTING TO MATCH CEILING.

											ELECTRICAL									MAX. DIMENSIONS			WEIGHT				
															DISCONNECT		CONTROLLER/ STARTER		EMERGENCY								
TAG NAME	AREA SERVED	CONFIGURATION	NOMINAL CFM	MBH	GPM	EWT °F	LWT °F	MAX W.P.D. FT. HD	CONTROL TYPE	FAN HP	RPM	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	POWER	LENGTH	WIDTH	HEIGHT	DRY	OPERATING	MANUFACTURER	MODEL	NOTES
CH-1	103 VESTIBULE	HORIZONTALLY RECESSED	600	45	2.4	200	180	5	2/M4.01	0.25	1500	120	1	MFR	NF	TCC	5000	Yes	47	30	11	118	128	TRANE	FFE060	ALL
CH-2	103 VESTIBULE	HORIZONTALLY RECESSED	600	45	2.4	200	180	5	2/M4.01	0.25	1500	120	1	MFR	NF	TCC	5000	Yes	47	30	11	118	128	TRANE	FFE060	ALL
CH-3	101 VESTIBULE	HORIZONTALLY RECESSED	400	30	1.5	200	180	5	2/M4.01	0.25	1500	120	1	MFR	NF	TCC	5000	Yes	33	30	11	68	78	TRANE	FFE030	ALL

FAN SCHEDULE

								ELECTRICAL (NOTE 1)											
												DISCONNECT		CONTROLLER/ STARTER					
TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	FAN CLASS	WHEEL DIA. INCHES	FAN RPM (NOTE D)	DRIVE TYPE	BHP (NOTE C)	MHP (NOTE C)	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR	EMERGENCY POWER	CONTROL TYPE	MANUFACTURER	MODEL
EF-1	STORAGE 103B	60	0.50	INLINE	12	1330	BELT	0.01	0.03	120	1	MFR	NF	TCC	5000	No	3/4.01	COOK	SQI

RADIATION SCHEDULE

NOTES:
1.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
2.BLACK FINISH.
3.RADIATION TO BE PEDESTAL MOUNTED ELEMENT TO BE 5.7" TALL ON 3" PEDESTAL.
4.RADIATION BEING FED FROM BELOW SHALL HAVE AN END CAP.
5.PROVIDE RADIATION WITH DOUBLE SIDED LOW SURFACE TEMPERATURE ACCESORY.

		ELEMENT												
TAG NAME	AREA SERVED	BTU/FT	GPM	MAT'L	LENGTH FT.	PIPE SIZE	ENCLOSURE HEIGHT (NOTE 3)	ENCLOSURE WIDTH	AVERAGE WATER TEMP °F	CONTROL TYPE (NOTE 1)	~~MANUFACTURER~~	2 MODEL	NOTES
RAD-1	EVENT SPACE	480	0.5	ALUMINUM	10' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-2	EVENT SPACE	480	0.5	ALUMINUM	2' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-3	EVENT SPACE	480	0.5	ALUMINUM	6' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-4	EVENT SPACE	480	0.5	ALUMINUM	10' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-5	EVENT SPACE	480	0.5	ALUMINUM	2' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-6	EVENT SPACE	480	0.5	ALUMINUM	3' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-7	CORRIDOR	480	0.5	ALUMINUM	12' - 0"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-8	CORRIDOR	480	0.5	ALUMINUM	12' - 0"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-9	CORRIDOR	480	0.5	ALUMINUM	11' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-10	CORRIDOR	480	0.5	ALUMINUM	11' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-11	CORRIDOR	480	0.5	ALUMINUM	11' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-12	CORRIDOR	480	0.5	ALUMINUM	11' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-13	CORRIDOR	480	0.5	ALUMINUM	11' - 6"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4
RAD-14	CORRIDOR	480	0.5	ALUMINUM	7' - 0"	3/4"	8 3/4"	3 1/2"	190	1/M4.01	RUNTAL	R2F-1	1, 2, 3, 4

LINEAR DIFFUSER SCHEDULE

NOTES:
1.CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION.
2.PROVIDE WITH CONCEALED FASTENERS.
3.DIFFUSERS WITH MULTIPLE SLOTS SHALL HAVE THE INNER MOST SLOT DIRECTED TOWARDS THE INTERIOR OF THE BUILDING, THE REMAINING SHALL BE DIRECTED TOWARDS THE EXTERIOR UNLESS NOTED OTHERWISE.

TAG NAME	MATERIAL	SLOT WIDTH	NO. OF SLOTS	WIDTH	LENGTH	PLENUM REQUIRED	PLENUM INSULATION TYPE	PLENUM INLET SIZE	PATTERN CONTROL REQUIRED	BALANCING DAMPER REQUIRED	FINISH	MANUFACTURER	MODEL	NOTES
LD-1	STEEL	1 1/2"	4	10"	2'-0"	Yes	LINED	SEE DWG.	Yes	Yes	WHITE	TITUS	TBDI	NOTE 1, 2 , & 3
LD-2	ALUMINIUM	2"	2	10"	4'-0"	Yes	LINED	SEE DWG.	Yes	Yes	WHITE	TITUS	FL-HT	NOTE 1, 2, & 3
LDR-1	ALUMINUM	2"	2	10"	18'-0"	No	N/A	N/A	No	No	WHITE	TITUS	FL-JT	NOTE 1 & 2

AIR TERMINAL SCHEDULE

NOTES:
1.CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.
2.REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
CD-1	24x24	PLAQUE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	NOTE 1 & 2
EG-1	SEE DWG	35 DEGREE DEFLECTION	SURFACE MOUNT	STEEL	WHITE	NO	TITUS	350	LONG BLADES
RG-1	24x24	PERFORATED	LAY-IN	STEEL	WHITE	NO	TITUS	PAR	NOTE 1 & 2
RG-2	SEE DWG	35 DEGREE DEFLECTION	LAY-IN	ALUMINUM	WHITE	NO	TITUS	350RL	LONG BLADES

GAS REGULATOR SCHEDULE

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
GR-1	GAS PRESSURE REGULATOR - CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2 PSI INLET PRESSURE, 11" WC OUTLET PRESSURE, 400 CFH CAPACITY, MINIMUM CONTROLLABLE FLOW OF CFH 40	FISHER (S200 SERIES) OR EQUAL BY ITRON, SENSUS OR MAXITROL
GR-2	GAS PRESSURE REGULATOR - CAST IRON BODY, INTERNAL PRESSURE RELIEF, THREADED CONNECTIONS, ADJUSTABLE PRESSURE SETTING, TIGHT SHUTOFF. 2 PSI INLET PRESSURE, 11" WC OUTLET PRESSURE, 250 CFH CAPACITY, MINIMUM CONTROLLABLE FLOW OF CFH 25	FISHER (S200 SERIES) OR EQUAL BY ITRON, SENSUS OR MAXITROL

IMEG
263 SHUMAN BOULEVARD
SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320
www.imegcorp.com

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG.
©2025 IMEG CONSULTANTS CORP.

Illinois Design Firm Registration #184008976-0014

0 1 2 3
REF. SCALE IN INCHES

PROJECT #24005446.00

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM #1	5/27/25
2	ADDENDUM #2	5/30/25

SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
M5.00

5/30/2025 8:58:14 AM

VIEW KEY

1 — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME

NORTH — 1 — **VIEW NAME** — 1/8" = 1'-0" — PLAN OR DETAIL SCALE

LINE TYPE AND TAG KEY:

- NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
- NEW WORK BY OTHER (LIGHT COLD LINE)
- EQUIPMENT CLEARANCE (DASHED LINE)

FIRE PROTECTION SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—FP—	FIRE PROTECTION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	DIRECTION OF FLOW IN PIPE
	AREA BOUNDARY
NO HATCH	LIGHT HAZARD
	ORDINARY GROUP 1

FIRE / SMOKE BARRIER DESIGNATIONS

FIRE AND SMOKE SEPERATIONS ARE NOT SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS AND DETERMINE THE LOCATION OF ALL FIRE AND SMOKE PARTITION ,BARRIERS, AND WALLS. THIS INCLUDES FLOOR RATINGS. PRICING SHALL INCLIDE ALL MATERIALS AND LABOR REQUIRED TO MAINTAIN THE RATINGS OF ALL RATED SEPERATIONS,WHETHER SHOWN ON THE ENGINEERING PLANS OR NOT.

MECHANICAL GENERAL NOTES:

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
3. DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS. WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
4. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
6. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
7. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. SEAL ALL FLOOR AND WALL PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
13. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
14. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
15. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

FIRE PROTECTION GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
3. CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE. SPRINKLER HEADS SHALL BE ALIGNED WITH OTHER SPRINKLER HEADS, LIGHTING, DIFFUSERS, AND ANY OTHER FEATURES IN THE CEILING.
4. NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRINKLERS WITH QUICK RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
5. PROVIDE COVERAGE ABOVE AND BELOW ALL EXPOSED DUCTWORK GREATER THAN 48" WIDE.
6. PROVIDE COVERAGE ABOVE (IF APPLICABLE) AND BELOW FLOATING CEILINGS, REFER TO ARCHITECTURAL PLANS.
7. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
8. THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED TO MEET OWNER'S INSURANCE COMPANY STANDARDS WHERE APPLICABLE. THE MORE STRINGENT OF THE OWNER'S INSURANCE UNDERWRITER'S DESIGN CRITERIA AND THE NFPA STANDARDS SHALL BE USED.
9. ALL BUILDING AREA SHALL BE FULLY SPRINKLERED INCLUDING CANOPIES, WALKWAYS, OVERHANGS, SOFFITS, AND BUILDING PROJECTIONS. ALL ACCESSIBLE COMBUSTIBLE CONCEALED SPACES SHALL BE FULLY PROTECTED BY THE SPRINKLER SYSTEM.
10. EACH ASSEMBLY SHALL INCLUDE CHECK VALVE BUTTERFLY CONTROL VALVE INDICATING "OPEN" OR "CLOSED" POSITION, TEST INSPECTION VALVE, FLOW SWITCH AND PRESSURE GAUGES.
11. PROVIDE RISER ROOM IDENTIFICATION SIGNAGE OUTSIDE THE FIRE RISER ROOM. COORDINATE EXACT SIGN LANGUAGE WITH AHJ.
12. WHERE FEASIBLE INSTALL PIPES HIGH AS POSSIBLE TO AVOID CONFLICT WITH OTHER DISCIPLINES.
13. INSTALL SYSTEM DRAINS AT LOW POCKET AREAS CONTAINING FIVE GALLONS OF WATER OR MORE, PROVIDE WITH ISOLATION VALVE AND THREADED HOSE CONNECTION.
14. MAIN PIPING PASSING BELOW SKYLIGHTS OR CLERESTORIES ARE NOT PERMITTED.
15. FOLLOW STRUCTURAL DETAILS WHEN PENETRATING OR PASSING THROUGH STRUCTURAL ELEMENTS. ALTERNATE DESIGNS WILL NEED TO BE APPROVED THROUGH THE STRUCTURAL ENGINEER.
16. FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT.
17. EXACT LOCATION OF THE ALL PANELS SHALL BE VERIFIED ON SITE AND COORDINATED WITH THE ELECTRICAL CONTRACTOR.
18. PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY THE ARCHITECT.
19. THE OWNER MUST BE NOTIFIED PRIOR TO EACH AND EVERY DRAINING OR RECHARGING OF THE SPRINKLER SYSTEM.
20. THE CONTRACTOR SHALL PREPARE A COORDINATED SET OF SHOP DRAWINGS AND SHALL OBTAIN APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION AND THE LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION.
21. DRAWINGS SHOW LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
22. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.

FIRE PROTECTION SHEET INDEX

F0.00	FIRE PROTECTION COVERSHEET
FD1.01	FLOOR PLAN DEMOLITION - FIRE PROTECTION
F1.01	FLOOR PLAN - FIRE PROTECTION
F2.00	FIRE PROTECTION DETAILS
GRAND TOTAL: 4	

FIRE SPRINKLER USAGE SCHEDULE (SPK)

NOTES:
1.SEE FLOOR PLANS FOR ZONING REQUIREMENTS.
2.SPRINKLER SHALL HAVE COLOR CODED BULB THERMAL ELEMENT.
3.ALL SPRINKLERS SHALL BE UL LISTED.
4.CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13 REQUIREMENTS.
5.TAG NAME IS PRIMARILY FOR IDENTIFYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
6.AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.
7.SPRINKLERS SHALL HAVE A 3mm QUICK RESPONSE BULB.
8.SPRINKLERS SPECIFIED WITHIN FIRE SPRINKLER USAGE SCHEDULE ARE STANDARD COVERAGE TYPE. EXTENDED COVERAGE SPRINKLERS ARE PERMITTED PROVIDED SPRINKLERS MEET THE REQUIREMENTS OF UL.

AREA (NOTE 1 & 6)		SPRINKLER (NOTE 4 & 5)						
DESCRIPTION	HAZARD	TAG NAME	TYPE	FINISH	RESPONSE	TEMP RATING	MANUFACTURER & MODEL	NOTES
EXPOSED STRUCTURE WITH OBSTRUCTIONS	SEE PLANS	SPR-1	UPRIGHT	ROUGH BRASS	QUICK	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2704	NOTE 2, 3, 7, 8
FINISHED AREA	AREAS WITH WOODEN CEILING	SPR-2	CONCEALED	CUSTOM COLOR, COORDINATE COLOR SELECTION WITH ARCHITECT	QUICK	155	VIKING VK, RELIABLE G4A, TYCO RFII, VICTAULIC V3802	NOTE 2, 3, 7, 8
OVERHANG SIDEWALL SPRINKLERS	OVERHANG WITH WOODEN STRUCTURE	SPR-3	DRY RECESSED SIDEWALL	BLACK	QUICK	155	VIKING VK, RELIABLE F3QR, TYCO DS, VICTAULIC V3610	NOTE 2, 3, 7, 8
OVERHANG CONCEALED SPRINKLERS	OVERHANG WITH STEEL STRUCTURE	SPR-4	DRY CONCEALED	CUSTOM COLOR, COORDINATE COLOR SELECTION WITH ARCHITECT	QUICK	155	VIKING VK, RELIABLE F3QR, VICTAULIC V3618	NOTE 2, 3, 7, 8

2

IMEG
www.imegcorp.com
203 SHUMAN BOULEVARD
SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG.
©2025 IMEG CONSULTANTS CORP.

Illinois Design Firm Registration #184008876-0014

0 1 2 3
REF. SCALE IN INCHES
PROJECT #24005446.00

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
2	ADDENDUM #2	5/30/25

SHEET TITLE:
FIRE PROTECTION COVERSHEET

SHEET NUMBER:
F0.00

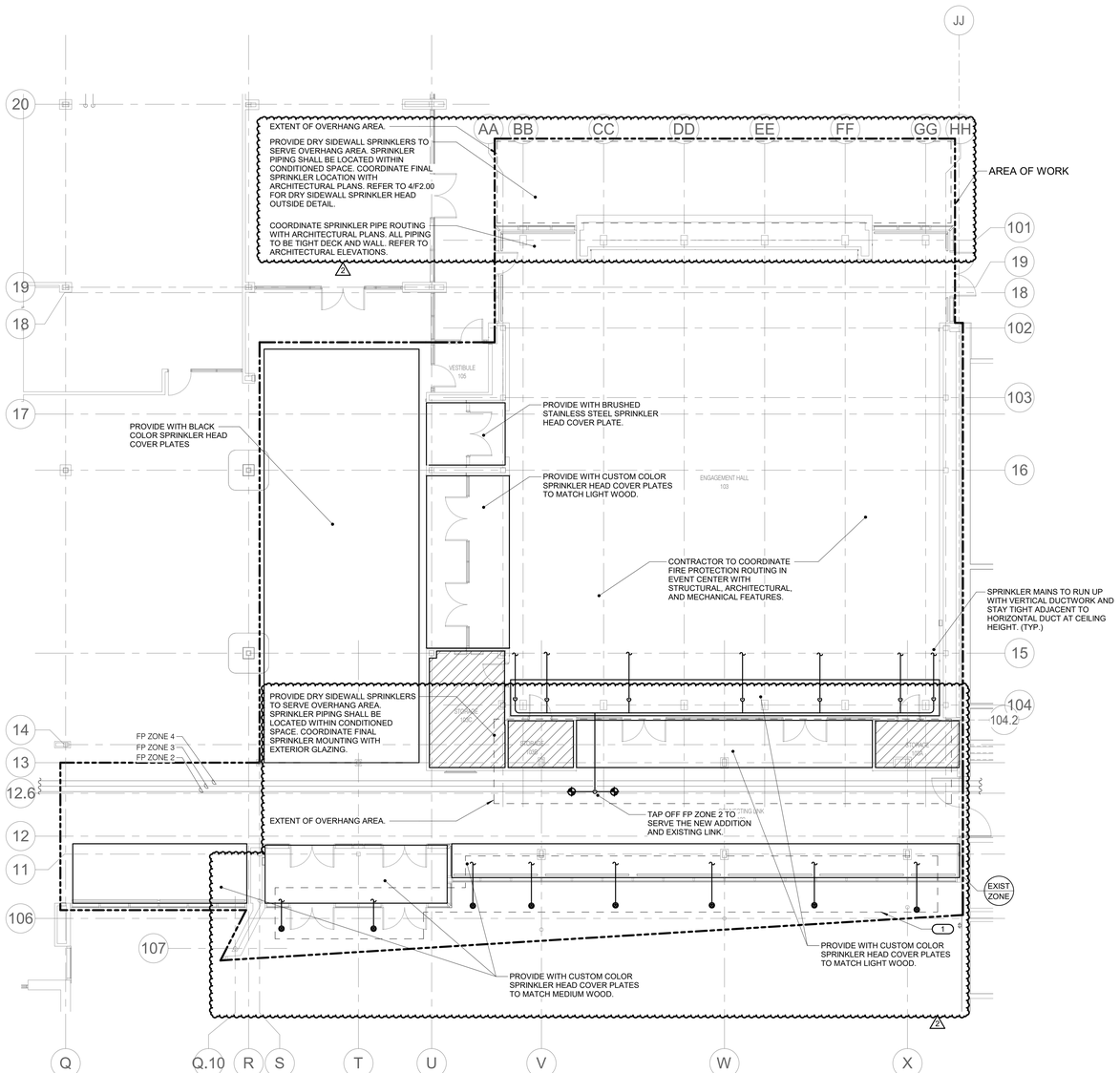
5/30/2025 10:30:47 AM

GENERAL SHEET NOTES:

1. PROVIDE NEW SPRINKLERS WITHIN AREA OF WORK AS REQUIRED PER NFPA 13. ROUTE AND SIZE SPRINKLER PIPING PER NFPA 13. CONTRACTOR RESPONSIBLE FOR FINAL DESIGN, LAYOUT AND QUANTITY OF SPRINKLER HEADS.
2. REFER TO 1/F2.00 FOR PIPE SUPPORT DETAIL.
3. REFER TO 2/F2.00 FOR SPRINKLER HEAD MOUNTING DETAIL.
4. REFER TO 3/F2.00 FOR NON-FIRE RATED WALL PENETRATION DETAIL.
5. COORDINATE ALL HANGERS AND SUPPORTS IN ENGAGEMENT HALL 103 WITH ARCHITECTUAL WOOD STRUCTURE.

KEYNOTES:

1. PROVIDE DRY CONCEALED SPRINKLERS FOR OVERHANG AREA PROTECTION PER NFPA 13 REQUIREMENTS. SPRINKLER PIPING WITHIN SOFFIT SHALL BE HEAT TRACED. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. ROUTE SPRINKLER PIPING IN NORTH-SOUTH DIRECTION TO MINIMIZE THE FP PIPING WITHIN OVERHANG SOFFIT AREA.



1 FLOOR PLAN - FIRE PROTECTION

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM #1	5/27/25
2	ADDENDUM #2	5/30/25

SHEET TITLE:

FLOOR PLAN - FIRE PROTECTION

SHEET NUMBER:

F1.01

5/30/2025 10:30:48 AM

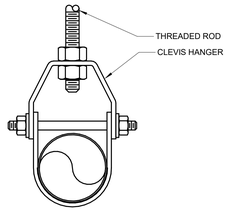
IMEG
www.imegcorp.com
263 SHUMAN BOULEVARD
SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG.
©2025 IMEG CONSULTANTS CORP.

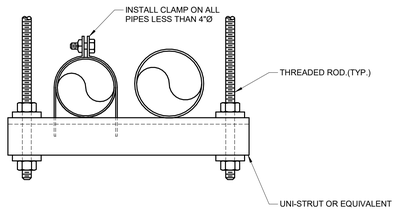
Illinois Design Firm Registration #184008976-0014

REF. SCALE IN INCHES 0 1 2 3

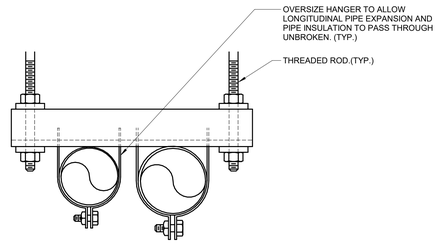
PROJECT #24005446.00



CLEVIS HANGER



TRAPEZE HANGER



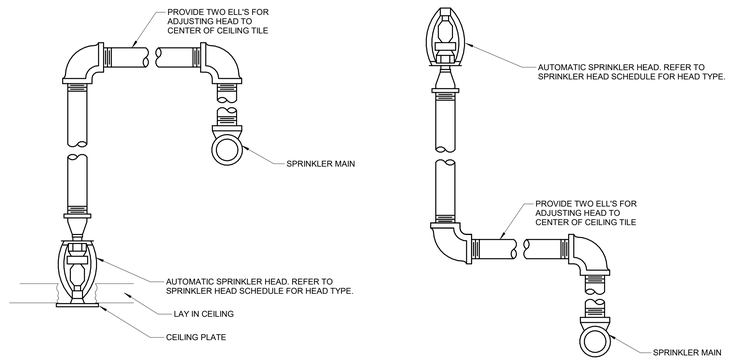
STRUT CLAMP HANGERS

NOTES:

1. REFER TO SPECIFICATION SECTION 21 05 29.

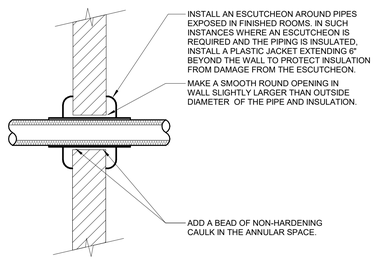
1 PIPE SUPPORT DETAIL

NO SCALE



2 SPRINKLER HEAD MOUNTING DETAIL

NO SCALE

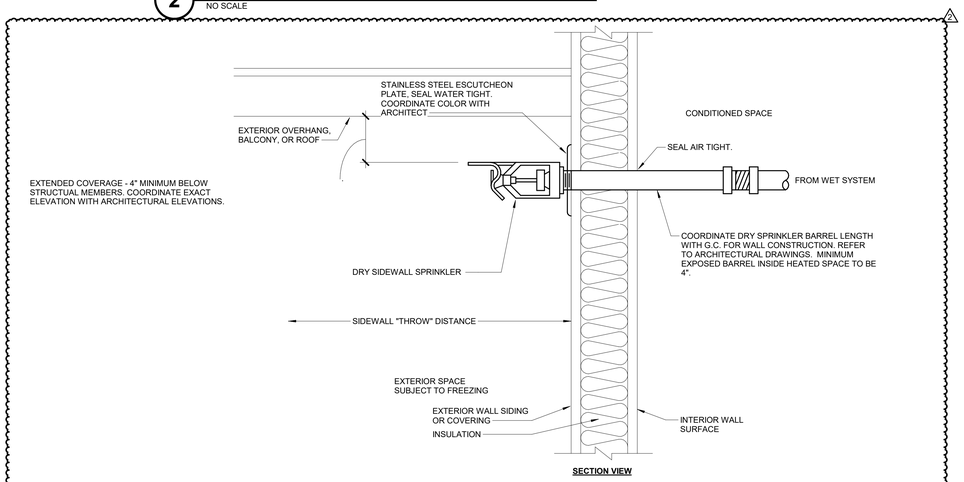


NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. SEE SPECIFICATION SECTIONS SECTION 23 05 29 - HVAC FOR ADDITIONAL INFORMATION.
3. FLOOR OPENINGS ARE SIMILAR, SEE SPECIFICATION SECTION 23 05 29 - HVAC FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

3 NON-FIRE RATED WALL PENETRATION DETAIL

NO SCALE



4 DRY SIDEWALL SPRINKLER HEAD OUTSIDE

NO SCALE

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM #1	5/27/25
2	ADDENDUM #2	5/30/25

SHEET TITLE:

FIRE PROTECTION DETAILS

SHEET NUMBER:

F2.00

5/30/2025 10:30:48 AM

IMEG
263 SHUMAN BOULEVARD
SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320
www.imegcorp.com

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG.
©2025 IMEG CONSULTANTS CORP.

Illinois Design Firm Registration #184008976-0014

0 1 2 3

REF. SCALE IN INCHES

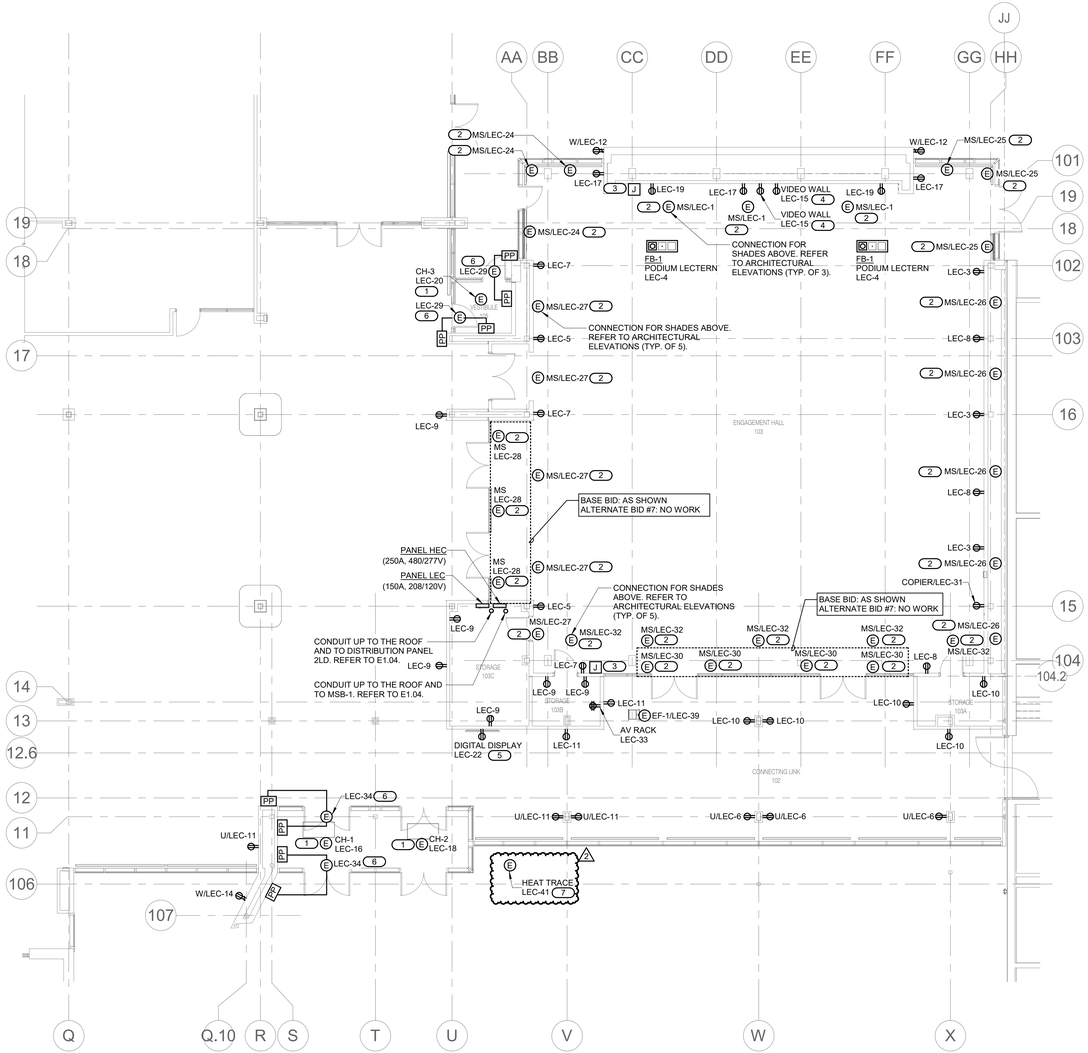
PROJECT #24005446.00

GENERAL SHEET NOTES:

1. REFER TO SHEET E0.00 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, ELECTRICAL INSTALLATION NOTES, ELECTRICAL RENOVATION NOTES, CONDUIT INSTALLATION SCHEDULE AND OTHER MISCELLANEOUS INFORMATION.
2. REFER TO SHEET E4.00 FOR ELECTRICAL RISER DIAGRAM.
3. REFER TO SHEET E6.00 FOR ELECTRICAL PANEL SCHEDULES.
4. COORDINATE FLOOR BOX LOCATION WITH ARCHITECT.
5. CONDUITS IN EVENT CENTER 103 SHALL BE GROUPED TOGETHER. ROUTING TO BE REVIEWED AND APPROVED BY THE ARCHITECT.

KEYNOTES:

1. CONNECT TO MANUFACTURER PROVIDED DISCONNECT/CONTROLLER/STARTER.
2. CONNECTION TO MOTORIZED SHADES. COORDINATE EXACT QUANTITY AND LOCATION OF MOTOR AND WIRING REQUIREMENTS WITH SHADE MANUFACTURER. SHADES SHALL HAVE MANUAL CONTROL. REFER TO 6/E3.00 FOR MOTORIZED SHADE CONTROL DIAGRAM DETAIL.
3. INSTALL SHADE CONTROLLER IN JUNCTION BOX PER MANUFACTURER'S REQUIREMENTS. MOUNT ADJACENT TO LIGHTING WALL CONTROLLER. GROUP INTO THREE ZONES:
   1. ALL LOWER SHADES AT INTERIOR WINDOWS
   2. HIGH EAST / SOUTH / WEST SHADES
   3. FULL HEIGHT EAST / WEST SHADES AND ALL NORTH SHADES.
4. COORDINATE LOCATION WITH AV INSTALLER PRIOR TO ROUGH-IN.
5. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
6. 120V CONNECTION TO DOOR OPERATOR. COORDINATE LOCATION OF POWER SUPPLY WITH DOOR HARDWARE INSTALLER. PUSH PLATES PROVIDED WITH DOOR OPERATORS, INSTALLED AND WIRED BY E.C. FINAL LOCATION OF ADA PUSHPLATES SHALL BE COORDINATED WITH ARCHITECT.
7. PROVIDE COMPLETE SELF REGULATING HEAT TRACE SYSTEM FOR EXTERIOR MAIN ENTRANCE CANOPY. REFER TO ARCHITECTURAL PLAN AND FIRE PROTECTION PLAN FOR EXACT LOCATION. INSTALL SYSTEM CONTROLLER IN STORAGE 103C SERVING THE CIRCUIT. PROVIDE 20A, 120V SINGLE CIRCUIT SYSTEM CONTROLLER WITH 6 WATTS/FOOT POWER OUTPUT. CONNECT 20A CIRCUIT SHOWN ON PLANS TO SYSTEM CONTROLLER. TRANSITION WIRING TO HEAT CABLE AT PIPING USING MANUFACTURER'S HEATER POWER CONNECTOR. HEATER CABLE POWER CONNECTOR SHALL BE ATTACHED TO PIPING WITH ADHESIVE APPROVED BY PLUMBING CONTRACTOR. INSTALL HEAT CABLE ALONG FULL LENGTH OF PIPING. PROVIDE TOTAL OF 80'-0" HEAT CABLE LENGTH FOR 10'-0" EACH PIPE TOTAL OF 8 PIPES. CUT TO EXACT LENGTH IN FIELD. PROVIDE TEMPERATURE SENSOR. ROUTE SENSOR CONTROL WIRING TO SYSTEM CONTROLLER. APPROVED MANUFACTURER: RAYCHEM AND DELTA THERM. PROVIDE SHOP DRAWING FOR REVIEW.



NORTH

1 FLOOR PLAN - POWER

1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM #1	5/27/25
2	ADDENDUM #2	5/30/25

SHEET TITLE:
FLOOR PLAN - POWER

SHEET NUMBER:
E1.02

5/30/2025 9:14:27 AM

IMEG
www.imegcorp.com
263 SHUMAN BOULEVARD
SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG.
©2025 IMEG CONSULTANTS CORP.

Illinois Design Firm Registration #184008876-0014

0 1 2 3
REF. SCALE IN INCHES

PROJECT #240005446.00

EXISTING PANEL EMLP (LIFE SAFETY)

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM:
LOCATION: JANITOR B164a

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 14 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EXISTING LOAD	20	1	--	--	--	0	0					--	--	--	1	20	EXISTING LOAD	2	--
	3	**EXISTING LOAD, *E**	20	1	--	--	--			0.21	0			--	--	--	1	20	EXISTING LOAD	4	--
--	5	EXISTING LOAD	20	1	--	--	--					0	**0.11**	**10**	**10**	**10**	**1**	**20**	**Lighting**	6	
--	7	EXISTING LOAD	20	1	--	--	--	0	0					--	--	--	1	20	EXISTING LOAD	8	--
--	9	EXISTING LOAD	20	1	--	--	--			0	0			--	--	--	1	20	EXISTING LOAD	10	--
--	11	EXISTING SPACE	--	1	--	--	--					--	0	--	--	--	1	20	EXISTING LOAD	12	--
	13							0	--					--	--	--	1	--	EXISTING SPACE	14	--
--	15	EXISTING LOAD	20	3	--	--	--			0	--			--	--	--	1	--	EXISTING SPACE	16	--
	17											0	--	--	--	--	1	--	EXISTING SPACE	18	--
							Total Load:	0.00 kVA		0.21 kVA		0.11 kVA									
							Total Amps:	0.00		0.82		0.46									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	0.32 kVA	100.00%	0.32 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	0.32 kVA
TOTAL ESTIMATED DEMAND LOAD:	0.32 kVA
TOTAL CONNECTED AMPS:	0.38 A
TOTAL ESTIMATED DEMAND AMPS:	0.4

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: *E = EXTEND EXISTING CIRCUIT TO NEW LIGHTS. MATCH CONDUIT AND WIRE, MINIMUM 2#12 & 1#12 EGC IN 3/4"C.

EXISTING PANEL LA1

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: EXISTING 'MDP-B'
LOCATION: SERVICE CORRIDOR B180A

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 35 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EXISTING LOAD	20	1	--	--	--	0	0					--	--	--	1	20	EXISTING LOAD	2	--
--	3	EXISTING LOAD	20	1	--	--	--			0	0			--	--	--	1	20	EXISTING LOAD	4	--
--	5	EXISTING LOAD	20	1	--	--	--					0	0	--	--	--	1	20	EXISTING LOAD	6	--
--	7	EXISTING LOAD	20	1	--	--	--	0	0.18					--	--	--	1	20	**EXISTING LOAD**	8	***E**
--	9	EXISTING LOAD	20	1	--	--	--			0	0.03			--	--	--	1	20	**EXISTING LOAD**	10	***E**
--	11	EXISTING LOAD	20	1	--	--	--					0	0.21	--	--	--	1	20	**EXISTING LOAD**	12	***E**
--	13	EXISTING SPARE	20	1	--	--	--	0	**0.23**					**12**	**12**	**12**	1	20	Lighting	14	***RP**
--	15	EXISTING SPARE	20	1	--	--	--			0	0			--	--	--	1	20	EXISTING SPARE	16	--
--	17	EXISTING SPARE	20	1	--	--	--					0	**0.36**	**10**	**10**	**10**	1	20	Lighting	18	
--	19	EXISTING SPARE	20	1	--	--	--	0	**0.02**					**10**	**10**	**10**	1	20	Lighting	20	***RP**
--	21	EXISTING SPARE	20	1	--	--	--			0	**1.16**			**10**	**10**	**10**	1	20	Lighting	22	
--	23	EXISTING SPARE	20	1	--	--	--					0	**0.31**	**8**	**8**	**8**	1	20	Lighting	24	***C**
--	25	EXISTING SPARE	20	1	--	--	--	0	0.36					**10**	**10**	**10**	1	20	Lighting	26	
--	27	EXISTING SPARE	20	1	--	--	--			0	0.21			**10**	**10**	**10**	1	20	Lighting	28	
--	29	EXISTING SPARE	20	1	--	--	--					0	0	--	--	--	1	20	EXISTING SPARE	30	--
							Total Load:	0.79 kVA		1.41 kVA		0.88 kVA									
							Total Amps:	2.84		5.12		3.22									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	3.069 kVA	100.00%	3.069 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	3.07 kVA
TOTAL ESTIMATED DEMAND LOAD:	3.069 kVA
TOTAL CONNECTED AMPS:	3.69 A
TOTAL ESTIMATED DEMAND AMPS:	3.7

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: *RP = THROUGH EXISTING RELAY PANEL 'RP-1',
***E = EXTEND EXISTING CIRCUIT TO NEW LIGHTS. MATCH CONDUIT AND WIRE, MINIMUM 2#12 & 1#12 EGC IN 3/4"C.**
***C = ROUTE CIRCUIT VIA LIGHTING CONTACTOR LC-EC, REFER TO DETAIL 2/E1.01**

EXISTING PANEL HA

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
LOCATION: JANITOR B164a

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 150 MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EXISTING LOAD	20	1	--	--	--	0	0					--	--	--	1	20	EXISTING LOAD	2	--
--	3	EXISTING LOAD	20	1	--	--	--			0	0			--	--	--	1	20	EXISTING LOAD	4	--
--	5	EXISTING LOAD	20	1	--	--	--					0	0	--	--	--	1	20	EXISTING LOAD	6	--
--	7	EXISTING LOAD	20	1	--	--	--	0	0					--	--	--	1	20	EXISTING LOAD	8	--
--	9	EXISTING LOAD	20	1	--	--	--			0	0			--	--	--	1	20	EXISTING LOAD	10	--
--	11	EXISTING LOAD	20	1	--	--	--					0	0	--	--	--	1	20	EXISTING LOAD	12	--
--	13	EXISTING LOAD	20	1	--	--	--	0	0					--	--	--	1	20	EXISTING LOAD	14	--
--	15	EXISTING LOAD	20	1	--	--	--			0	0			--	--	--	1	20	EXISTING LOAD	16	--
--	17	EXISTING LOAD	20	1	--	--	--					0	0.04	--	--	--	1	20	**EXISTING SOFFIT LIGHTING, *E**	18	***LC**
--	19	EXISTING LOAD	20	1	--	--	--	0	0					--	--	--	1	20	EXISTING SPARE	20	--
--	21	EXISTING LOAD	20	1	--	--	--			0	0			--	--	--	1	20	EXISTING SPARE	22	--
--	23	EXISTING LOAD	20	1	--	--	--					0	0	--	--	--	1	20	EXISTING SPARE	24	--
--	25	EXISTING SPARE	60	3	--	--	--	0	0					--	--	--	1	20	EXISTING SPARE	26	--
	27									0	0			--	--	--	1	20	EXISTING LOAD	28	--
	29											0	0	--	--	--	1	20	EXISTING LOAD	30	--
--	31	EXISTING SPACE	--	1	--	--	--	--	0											32	
--	33	EXISTING SPARE	20	1	--	--	--			0	0			--	--	--	3	60	EXISTING LOAD	34	--
--	35	EXISTING SPARE	20	1	--	--	--					0	0							36	
--	37	EXISTING SPACE	--	1	--	--	--	--	--					--	--	--	1	--	EXISTING SPACE	38	--
--	39	EXISTING SPARE	20	1	--	--	--			0	--			--	--	--	1	--	EXISTING SPACE	40	--
--	41	EXISTING SPARE	20	1	--	--	--					0	--	--	--	--	1	--	EXISTING SPACE	42	--
							Total Load:	0.00 kVA		0.00 kVA		0.04 kVA									
							Total Amps:	0.00		0.00		0.16									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	0.044 kVA	100.00%	0.044 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	0.04 kVA
TOTAL ESTIMATED DEMAND LOAD:	0.044 kVA
TOTAL CONNECTED AMPS:	0.05 A
TOTAL ESTIMATED DEMAND AMPS:	0.1

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: *LC = ROUTED VIA EXISTING LIGHTING CONTACTOR,
***E = EXTEND EXISTING CIRCUIT TO NEW LIGHTS. MATCH CONDUIT AND WIRE, MINIMUM 2#8 & 1#8 EGC IN 1 1/4"C.**

PANEL HEC

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: EXISTING SWITCHBOARD MSB-1
LOCATION: Room 102

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 250 MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 42 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1							13.33	9.07											2	
	3	RTU-1	80	3	3	--	8			13.33	9.07			8	--	3	3	80	RTU-2	4	
	5											13.33	9.07							6	
	7							0	--					--	--	--	1	--	SPACE	8	--
--	9	SPARE	60	3	--	--	--			0	--			--	--	--	1	--	SPACE	10	--
	11											0	--	--	--	--	1	--	SPACE	12	--
--	13	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	14	--
--	15	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	16	--
--	17	SPACE	--	1	--	--	--					--	--	--	--	--	1	--	SPACE	18	--
--	19	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	20	--
--	21	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	22	--
							Total Load:	22.40 kVA		22.40 kVA		22.40 kVA									
							Total Amps:	80.87		80.87		80.87									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	67.2 kVA	100.00%	67.2 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	67.20 kVA
TOTAL ESTIMATED DEMAND LOAD:	67.2 kVA
TOTAL CONNECTED AMPS:	80.83 A
TOTAL ESTIMATED DEMAND AMPS:	80.8

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL LEC

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: EXISTING DIST. PANEL L2D
LOCATION: Room 102

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 150 MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	MS	20	1	10	10	10	1.14	0.2					12	12	12	1	20	Door Hold Control Module	2	
	3	Receptacles	20	1	12	12	12			0.54	0.36			10	10	10	1	20	Floor Boxes	4	
	5	Receptacles	20	1	12	12	12					0.36	0.54	12	12	12	1	20	Receptacles	6	
	7	Receptacles	20	1	12	12	12	0.54	0.54					12	12	12	1	20	Receptacles	8	
	9	Receptacles	20	1	12	12	12			1.08	0.9			12	12	12	1	20	Receptacles	10	
	11	Receptacles	20	1	12	12	12					0.9	0.36	10	10	10	1	20	Receptacles	12	
	13	Receptacles	20	1	10	10	10	0.36	0.18					10	10	10	1	20	Receptacles	14	
	15	Video Wall	20	1	10	10	10			1	0.67			12	12	12	1	20	CH-1	16	
	17	Receptacles	20	1	10	10	10					0.54	0.67	12	12	12	1	20	CH-2	18	
	19	Receptacles	20	1	10	10	10	0.36	0.67					12	12	12	1	20	CH-3	20	
	21	Receptacles	20	1	10	10	10			0.72	0.3			12	12	12	1	20	DIGITAL DISPLAY	22	
	23	Receptacles	20	1	10	10	10					0.72	1.14	10	10	10	1	20	MS	24	
	25	MS	20	1	10	10	10	1.14	1.9					12	12	12	1	20	MS	26	
	27	MS	20	1	12	12	12			1.9	1.14			12	12	12	1	20	MS	28	
	29	Door Operators	20	1	12	12	12					0.4	1.52	12	12	12	1	20	MS	30	
	31	Receptacles	20	1	12	12	12	1	1.9					12	12	12	1	20	MS	32	
	33	AV Rack	20	1	12	12	12			0.36	0.4			12	12	12	1	20	Door Operators	34	
	35	Lighting	20	1	12	12	12					0.13	0	12	12	12	1	20	LIGHTING CONTACTOR LC-EC	36	
	37	Power Bollard	20	1	10	10	10	0.18	1					8	8	8	1	20	ILLUMINATED SIGN	38	***C**
	39	EF-1	20	1	12	12	12			0.5	1			8	8	8	1	20	FUTURE SIGN	40	***C**
*G	41	Heat Trace	20	1	10	10	10					1	0	--	--	--	1	20	SPARE	42	--
--	43	SPARE	20	1	--	--	--	0	0					--	--	--	1	20	SPARE	44	--
--	45	SPARE	20	1	--	--	--			0	0			--	--	--	1	20	SPARE	46	--
--	47	SPARE	20	1	--	--	--					0	0	--	--	--	1	20	SPARE	48	--
--	49	SPARE	20	1	--	--	--	0	0					--	--	--	1	20	SPARE	50	--
--	51	SPARE	20	1	--	--	--			0	0			--	--	--	1	20	SPARE	52	--
--	53	SPARE	20	1	--	--	--					0	0	--	--	--	1	20	SPARE	54	--
							Total Load:	11.11 kVA		10.87 kVA		8.28 kVA									
							Total Amps:	95.90		93.90		69.03									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	0.133 kVA	100.00%	0.133 kVA
Other	0.2 kVA	100.00%	0.2 kVA
Power	18.27 kVA	100.00%	18.27 kVA
Receptacles	11.66 kVA	92.88%	10.83 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	30.26 kVA
TOTAL ESTIMATED DEMAND LOAD:	29.433 kVA
TOTAL CONNECTED AMPS:	84.00 A
TOTAL ESTIMATED DEMAND AMPS:	81.7

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: *C = ROUTE CIRCUIT VIA LIGHTING CONTACTOR LC-EC, REFER TO DETAIL 2/E1.01
*G = GROUND FAULT CIRCUIT INTERRUPT

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
IMEG CORP.
263 SHUMAN BLVD, SUITE 550
NAPERVILLE, IL, 60563
P: 630.527.2320

CVIL-LANDSCAPE ENGINEER
HR GREEN
1391 CORPORATE DRIVE, SUITE 203
MCHENRY, IL, 60050
P. 815.385.1778

CONSTRUCTION MANAGER
PEPPER CONSTRUCTION
411 LAKE ZURICH RD.
BARRINGTON, IL 60010
P. 847.381.2760

McHenry County College
ENGAGEMENT HALL
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-027

KEY PLAN:

SHEET STATUS: 05/16/2025
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:
1	ADDENDUM #1	5/27/25
2	ADDENDUM #2	5/30/25

SHEET TITLE:
ELECTRICAL PANEL SCHEDULES

SHEET NUMBER:
E6.00

5/30/2025 9:14:30 AM

IMEG
www.imegcorp.com
263 SHUMAN BOULEVARD
SUITE 550
NAPERVILLE, IL 60563
P: 630.527.2320
IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG.
©2025 IMEG CONSULTANTS CORP.
Illinois Design Firm Registration #184008976-0014
REF. SCALE IN INCHES
PROJECT #24005446.00