



**THIS IS NOT
AN ORDER**

REQUEST FOR BIDS/PROPOSALS COVERSHEET
THE UNIVERSITY OF SOUTHERN MISSISSIPPI
Gulf Coast Research Lab Procurement
703 East Beach Drive, Ocean Springs, Mississippi 39564

Date: April 4, 2022

Bid No. 22-40

THE UNIVERSITY OF SOUTHERN MISSISSIPPI is considering the purchase of the following item(s). We ask that you submit your bid and retain one copy for your files. Right is reserved to accept or reject any part of your bid. Your quotation will be given consideration if received Gulf Coast Research Lab on or before:

2:00 p.m. CST

April 27, 2022

Buyer: Cathy Catchot

Name: _____

Company: _____

Address: _____

City/State/Zip: _____

TERMS - Bidder should state terms of sale. Our terms are 2% ten days, net 45 days.

These terms will apply per Mississippi law.

AWARDING CONTRACT - Cash terms will not be used as a basis for awarding contracts; however, the University will accept cash discounts when earned.

NOTE: If you cannot quote on the exact material shown, please indicate any exception giving brand name and complete specifications of any alternate. If additional space is required, use a separate sheet or letter of transmittal.

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL NET PRICE
		<p>BID 22-40</p> <p>Fabrication of Metal Building</p> <p>PROPOSAL MUST BE RETURNED TO THE UNIVERSITY IN ACCORDANCE WITH THE SPECIFICATIONS. RFP NUMBER AND DATE OF BID OPENING MUST BE SHOWN ON THE OUTSIDE OF THE ENVELOPE IF USING THAT METHOD.</p>		

We quote you as above-F.O.B. The University of Southern Mississippi. Shipment can be made in _____ days from receipt of order. DATE _____ TERMS _____
Return quotation to Procurement Services at above address.

Signature Required _____

**SECTION 13 34 19
METAL BUILDING SYSTEMS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Manufacturer-engineered, shop-fabricated structural steel building frame.
- B. Metal wall and roof panels.
- C. Exterior doors and overhead doors.

1.02 RELATED REQUIREMENTS

- A. Section 05 50 00 - Metal Fabrications.
- B. Section 07 92 00 - Joint Sealants: Sealing joints between accessory components and wall system.
- C. Section 08 11 13 - Hollow Metal Doors and Frames.

1.03 REFERENCE STANDARDS

- A. AISC 360 - Specification for Structural Steel Buildings 2016 (Revised 2021).
- B. ASTM A36/A36M - Standard Specification for Carbon Structural Steel 2019.
- C. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products 2017.
- D. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware 2016a.
- E. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength 2021.
- F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2020.
- G. ASTM A992/A992M - Standard Specification for Structural Steel Shapes 2020.
- H. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2021a.
- I. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials 2021.
- J. ASTM F1554 - Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength 2020.
- K. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile Strength 2021.
- L. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination 2020.
- M. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification 2014, with Amendment (2015).
- N. AWS D1.1/D1.1M - Structural Welding Code - Steel 2020, with Errata (2021).
- O. IAS AC472 - Accreditation Criteria for Inspection Programs for Manufacturers of Metal Building Systems 2018.
- P. MBMA (MBSM) - Metal Building Systems Manual 2019.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on profiles, component dimensions, fasteners.

- C. Shop Drawings: Indicate assembly dimensions, locations of structural members, connections, attachments, openings, and loads; wall and roof system dimensions, panel layout, general construction details, anchors and methods of anchorage, and installation; framing anchor bolt settings, sizes, locations from datum, and foundation loads; indicate welded connections with AWS A2.4 welding symbols; indicate net weld lengths; provide professional seal and signature.
- D. Samples: Submit two samples of precoated metal panels for each color selected, 18 by 18 inch in size illustrating color and texture of finish.
- E. Manufacturer's Instructions: Indicate preparation requirements, anchor bolt placement.
- F. Designer's Qualification Statement.
- G. Manufacturer's Qualification Statement: Provide documentation showing metal building manufacturer is accredited under IAS AC472.
 - 1. Include statement that manufacturer designs and fabricates metal building system as integrated components and assemblies, including but not limited to primary structural members, secondary members, joints, roof, and wall cladding components specifically designed to support and transfer loads and properly assembled components form a complete or partial building shell.

1.05 QUALITY ASSURANCE

- A. Designer Qualifications: Design structural components, develop shop drawings, and perform shop and site work under direct supervision of a Professional Structural Engineer experienced in design of this type of work.
 - 1. Design Engineer Qualifications: Licensed in the State in which the Project is located.
 - 2. Comply with applicable code for submission of design calculations as required for acquiring permits.
 - 3. Cooperate with regulatory agency or authorities having jurisdiction (AHJ), and provide data as requested.
- B. Manufacturer Qualifications: Company specializing in the manufacture of products similar to those required for this project.
 - 1. Not less than three years of documented experience.
 - 2. Accredited by IAS in accordance with IAS AC472.

1.06 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Metal Buildings Systems:
 - 1. Ludwig Building Enterprises, LLC: www.ludwigbuildings.com/#sle.
 - 2. Heritage Building Systems: www.heritagebuildings.com/#sle.
 - 3. Reeds Metals : www.reedsmetals/#sle.
 - 4. Substitutions: See Section 01630 - Substitutions and Product Options.

2.02 ASSEMBLIES

- A. Single span rigid frame.
- B. Primary Framing: Rigid frame of rafter beams and columns, braced end frames and end wall columns, and wind bracing.
- C. Secondary Framing: Purlins, Girts, and Eave struts, and other items detailed.
- D. Wall System: Preformed metal panels of vertical profile, with sub-girt framing/anchorage assembly, and accessory components.
- E. Roof System: Preformed metal panels oriented parallel to slope, with sub-girt framing/anchorage assembly and insulation, and accessory components.

- F. Roof Slope: 2 inches in 12 inches.

2.03 PERFORMANCE REQUIREMENTS

- A. Provide drainage to exterior for water entering or condensation occurring within wall or roof system.
- B. Permit movement of components without buckling, failure of joint seals, undue stress on fasteners or other detrimental effects, when subject to temperature range of [] degrees F.
- C. Size and fabricate wall and roof systems free of distortion or defects detrimental to appearance or performance.

2.04 MATERIALS - FRAMING

- A. Structural Steel Members: ASTM A36/A36M.
- B. Anchor Bolts: ASTM A307, Grade A, with no preference for protective coatings.
- C. Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1; galvanized to ASTM A153/A153M.
- D. Welding Materials: Perform in accordance with AWS D1.1/D1.1M.

2.05 MATERIALS - WALLS AND ROOF

- A. Steel Sheet: Hot-dipped galvanized steel sheet, ASTM A653/A653M, Designation SS (structural steel), Grade 33 (230), with G90/Z275 coating.

2.06 COMPONENTS

- A. Doors and Frames: Manufacturer's standard.
- B. Overhead Doors and Frames: Manufacturer's standard.

2.07 FABRICATION - FRAMING

- A. Fabricate members in accordance with AISC 360 for plate, bar, tube, or rolled structural shapes.
- B. Anchor Bolts: Formed with bent shank, assembled with template for casting into concrete.
- C. Provide wall opening framing for doors, windows, and other accessory components.

2.08 FABRICATION - WALL AND ROOF PANELS

- A. Siding: Minimum 24 gauge metal thickness, "PBR" profile indicated, 1 1/4 inch deep, lapped edges fitted with continuous gaskets.
- B. Roofing: Minimum 24 gauge metal thickness, "PBR" profile indicated, lapped edges fitted with continuous gaskets.
- C. Girts/Purlins: Rolled formed structural shape to receive siding, roofing sheet.
- D. Internal and External Corners: Same material thickness and finish as adjacent material, profile brake formed to required angles.
- E. Fasteners: To maintain load requirements and weather tight installation, same finish as cladding, non-corrosive type.

2.09 FINISHES

- A. Framing Members: Clean, prepare, and shop prime. Do not prime surfaces to be field welded.
- B. Exterior Surfaces of Wall Components and Accessories: Precoated enamel on steel of modified silicone finish, color as selected from manufacturer's standard range.
- C. Interior Surfaces of Wall Components and Accessories: Precoated enamel on steel of modified silicone finish, color as selected from manufacturer's standard range.

END OF SECTION



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 University of Southern Mississippi
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ADDRESS Halstead Campus
 703 E Beach Dr.
 Ocean Springs, MS
 39564

OWNER University of Southern Mississippi
 Gulf Coast Research Laboratory
 Luke Applewhite

ARCHITECT TALLstudio Architecture, PLLC
 DBA - Tall Architects
 1012 Government St.
 Ocean Springs, MS
 39564

ARCHITECTURAL TEAM Madison Talley, NCARB, AIA
 Mark Talley, NCARB, AIA

ENGINEER Morgan Warmath, Project Manager
 (Person of Contact - 228.596.4091)

ENGINEERING TEAM Terry Moran Engineering
 P.O. Box 4075
 Biloxi, MS 39535

STRUCTURAL MECHANICAL PLUMBING ELECTRICAL Terry Moran, P.E., P.L.S.
 Geoffrey Hittner
 (Person of Contact - 228.223.8593)

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GENERAL NOTE TO POTENTIAL BIDDERS

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REVISIONS

No.	Description	Date
1	Revision 1	3.28.2022

DATE: 1/24/22
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COVER

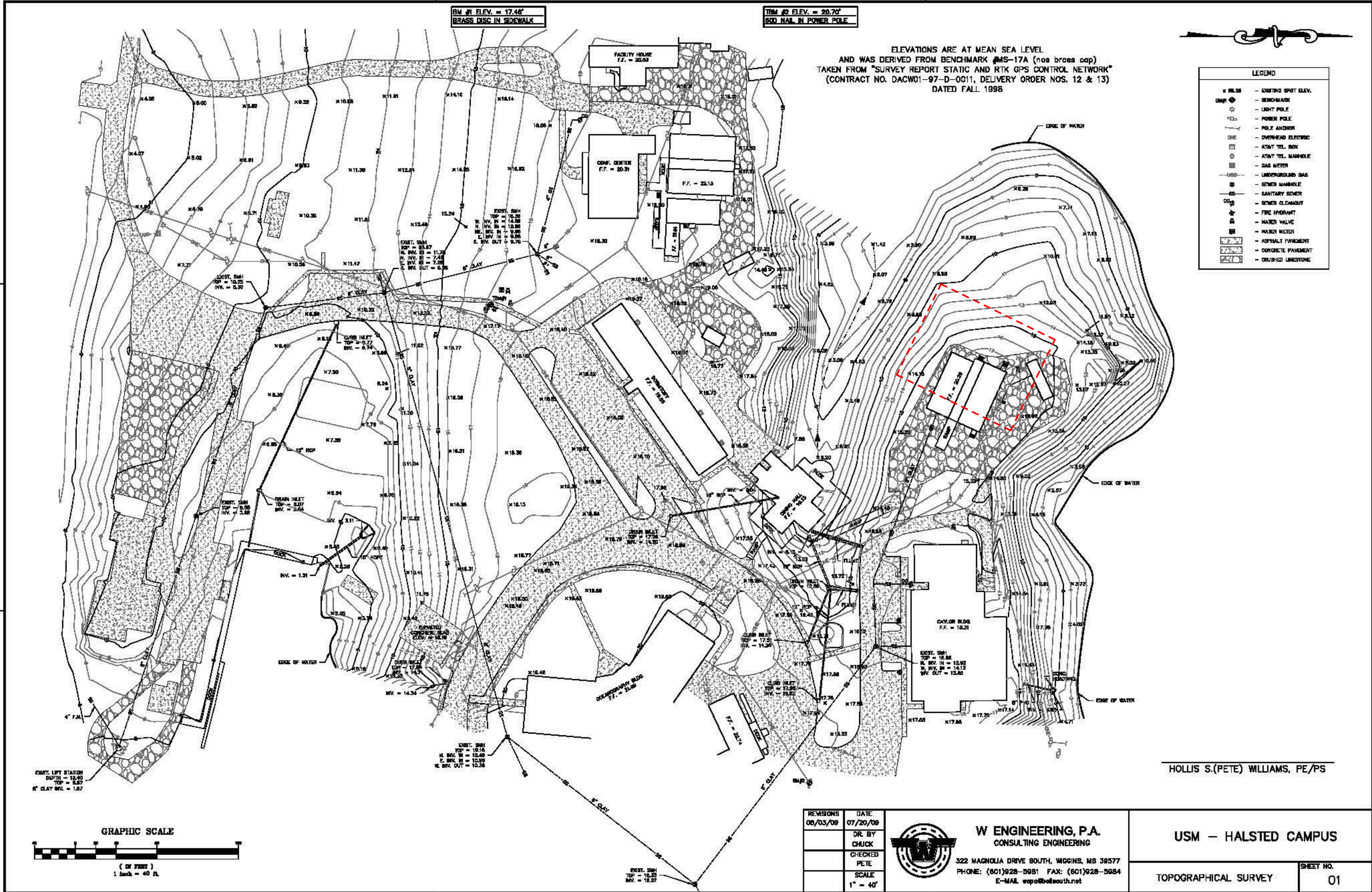
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SURVEY - BY OTHERS

V.100



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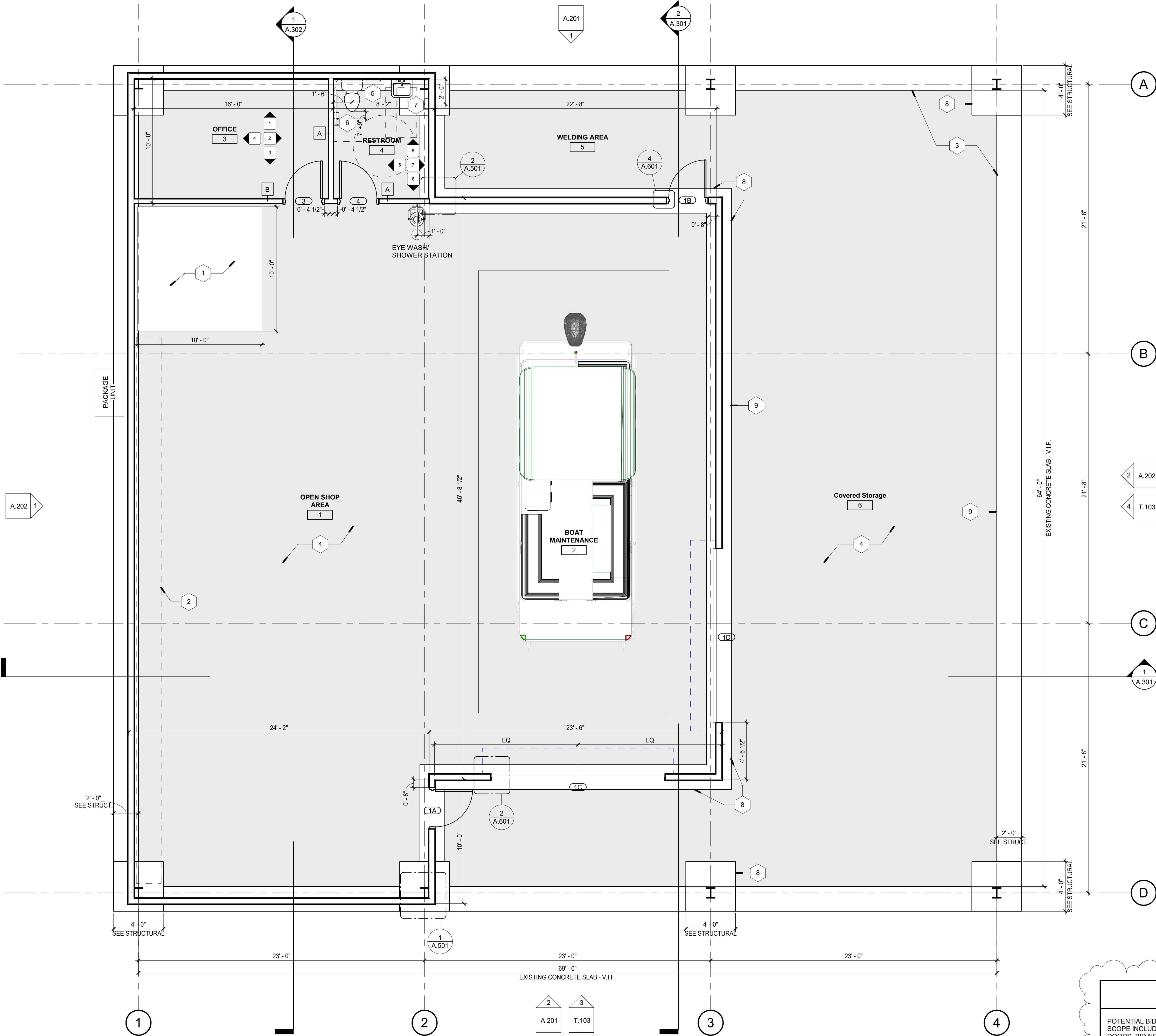
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FLOOR PLAN

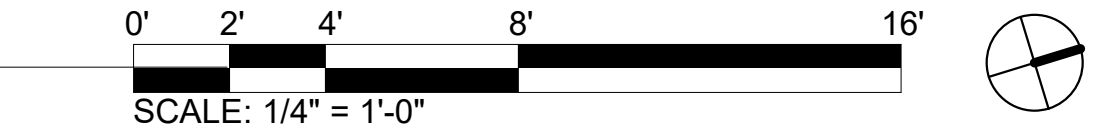
A.101

KEYNOTES - FLOOR PLAN	
1	CAGE STORAGE; OWNER PROVIDED, CONTRACTOR INSTALLED
2	WIRE SHELVING; OWNER PROVIDED, CONTRACTOR INSTALLED
3	PREPARE EXISTING CONCRETE SLAB TO RECEIVE NEW FOUNDATION; SEE STRUCTURAL
4	EXISTING CONCRETE SLAB
5	ADA GRAB BARS
6	TOILET PAPER HOLDER; OWNER PROVIDED AND INSTALLED
7	PAPER TOWEL DISPENSER; OWNER PROVIDED AND INSTALLED
8	SAW CUT EXISTING SLAB AT NEW COLUMN FOUNDATION, TYP; SEE STRUCTURAL FOR ADDITIONAL INFORMATION
9	SAW CUT EXISTING SLAB AT NEW GRADE BEAM FOUNDATION, TYP; SEE STRUCTURAL FOR ADDITIONAL INFORMATION



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1 FLOOR PLAN
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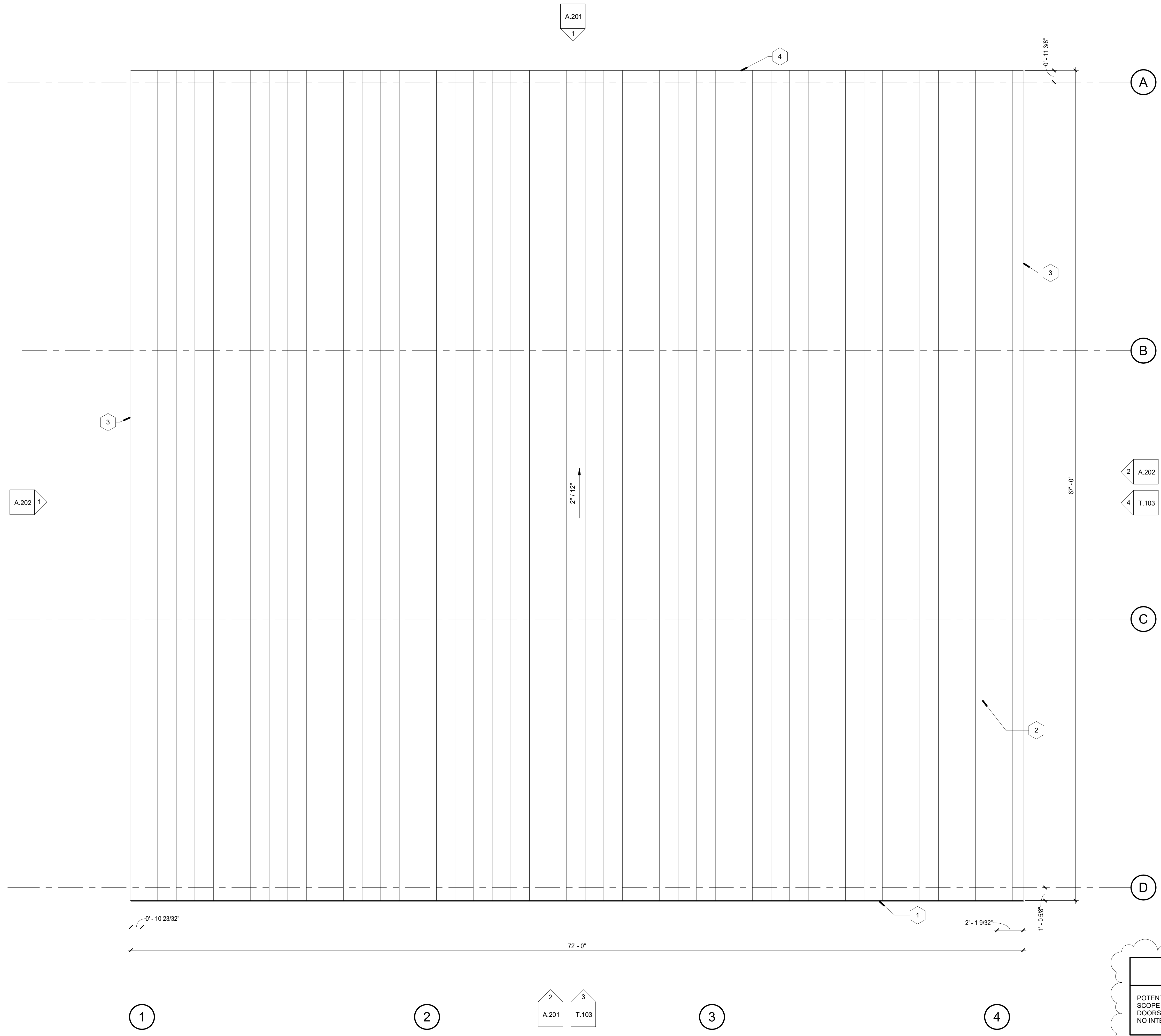
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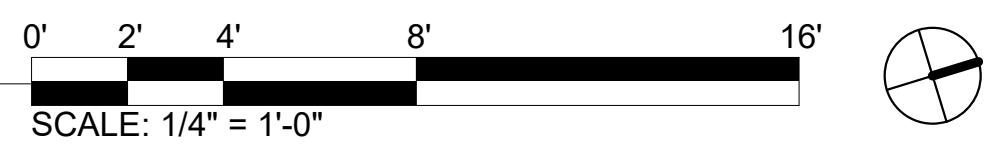
ROOF PLAN
A.120

1	EAVE TRIM; PROVIDED BY PEMB MANUFACTURER
2	"PBR" METAL ROOF PANEL; PROVIDED BY PEMB MANUFACTURER
3	RAKE TRIM; PROVIDED BY PEMB MANUFACTURER
4	DRIP EDGE; OVERHANG METAL ROOF



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1 ROOF PLAN
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2 A.201
3 T.103

2 A.202
4 T.103

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Material Legend		
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	Polycarbonate	Manufacturer: As Specified Product: 4 x 8 Polycarbonate Sheets
	Plywood	Manufacturer: As Specified Product: 4 x 8 Plywood Sheets

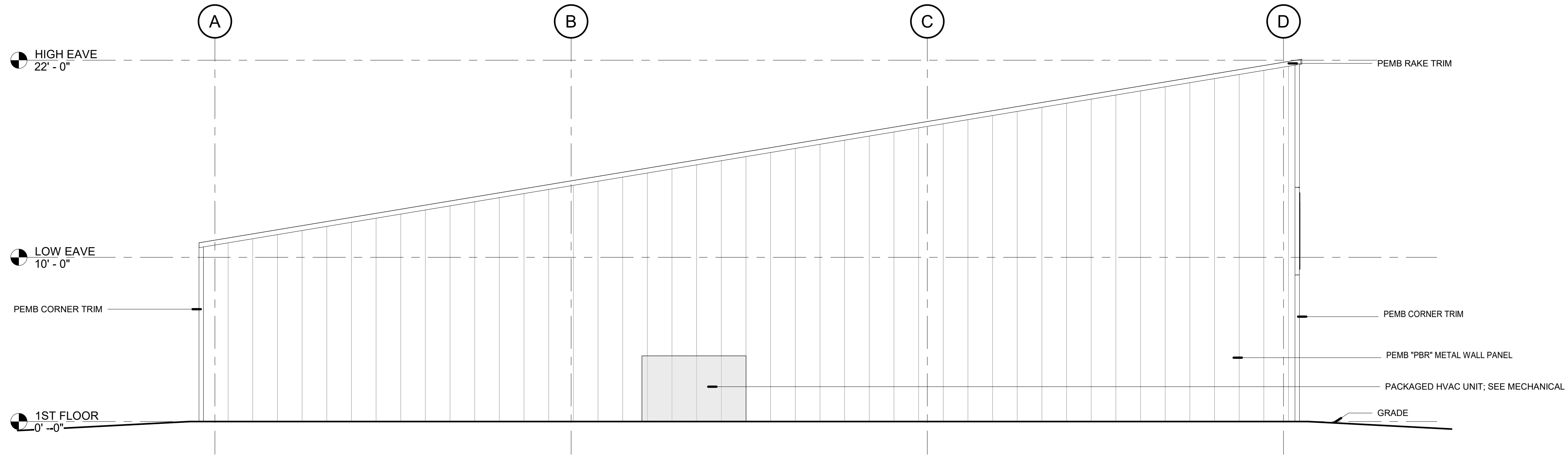
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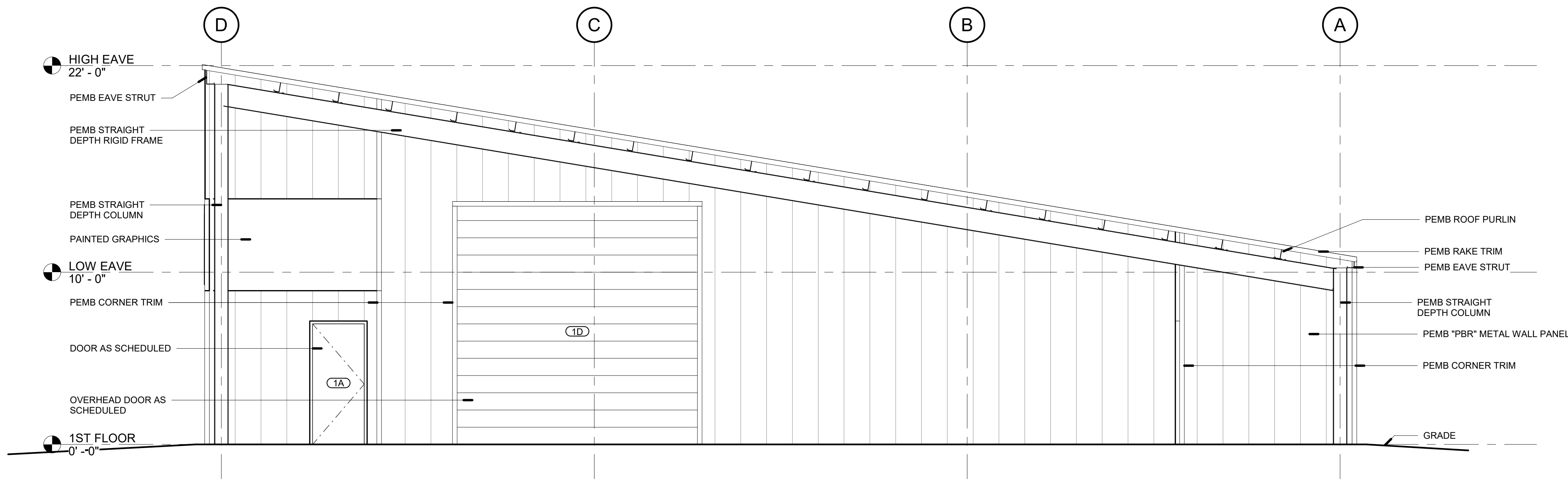


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1 WEST ELEVATION
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2 EAST ELEVATION
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BUILDING ELEVATIONS

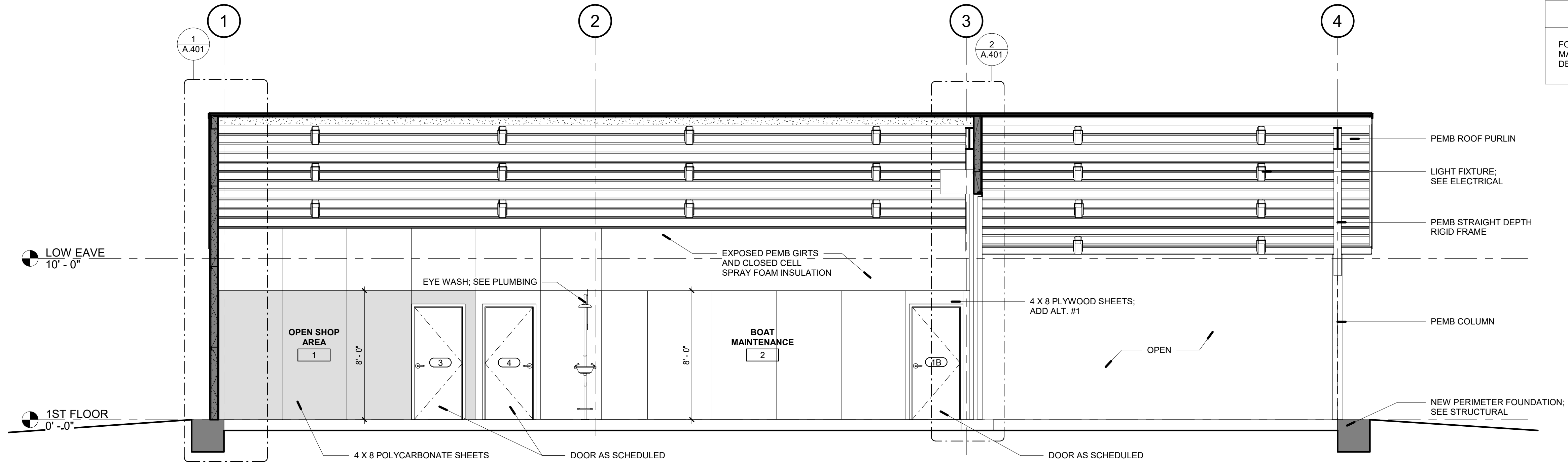
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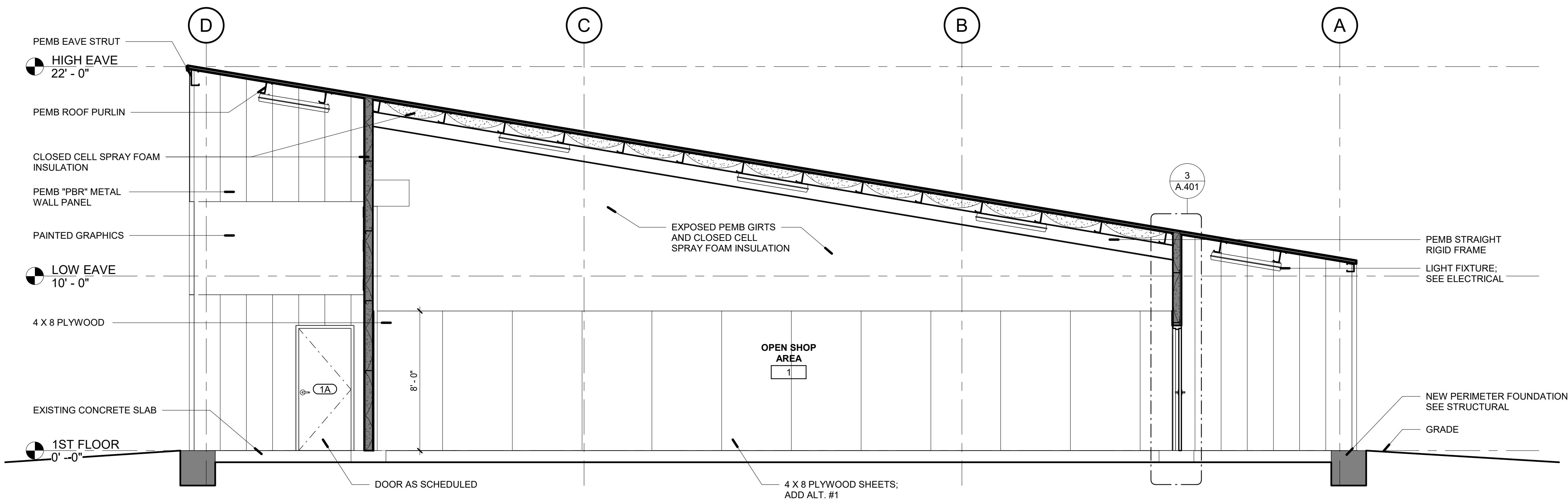
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1 Section 1
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2 Section 2
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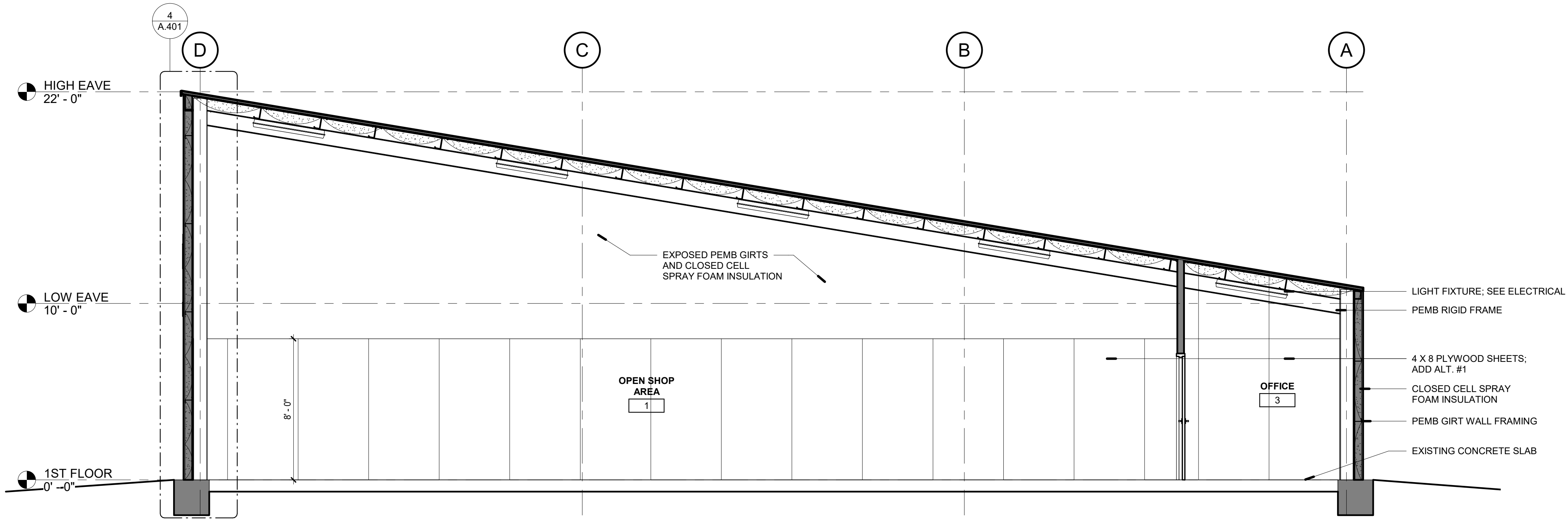
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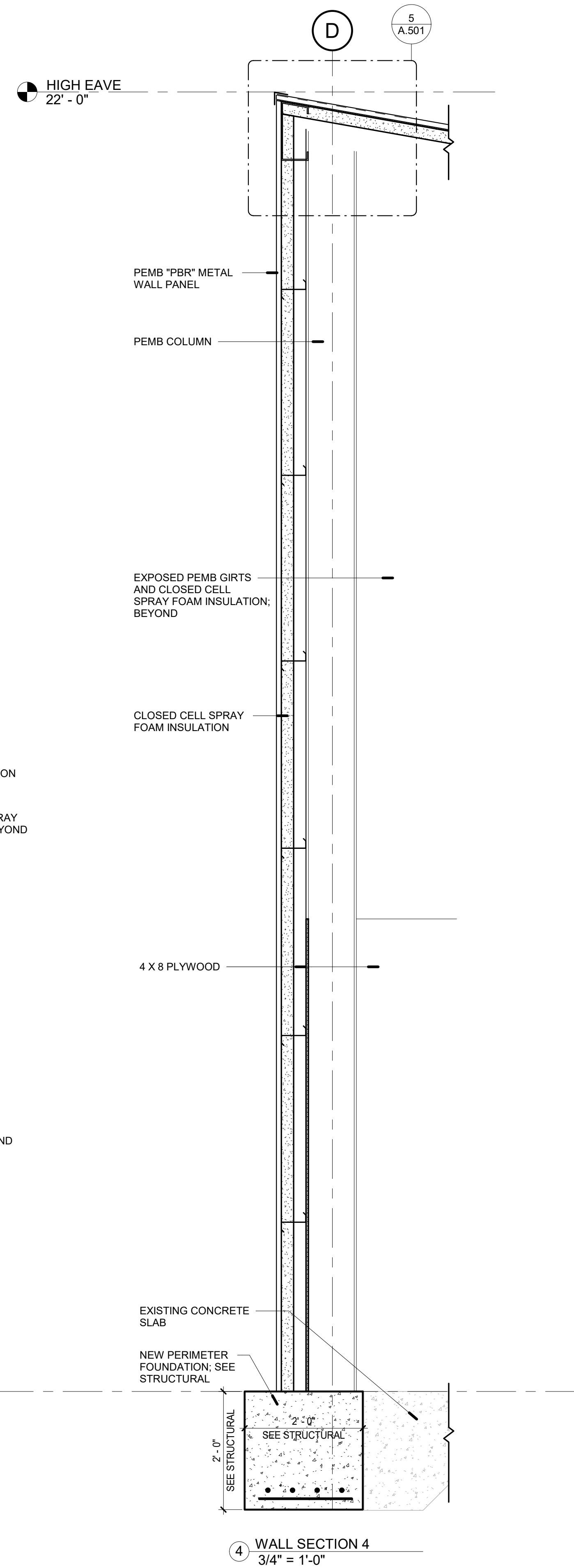
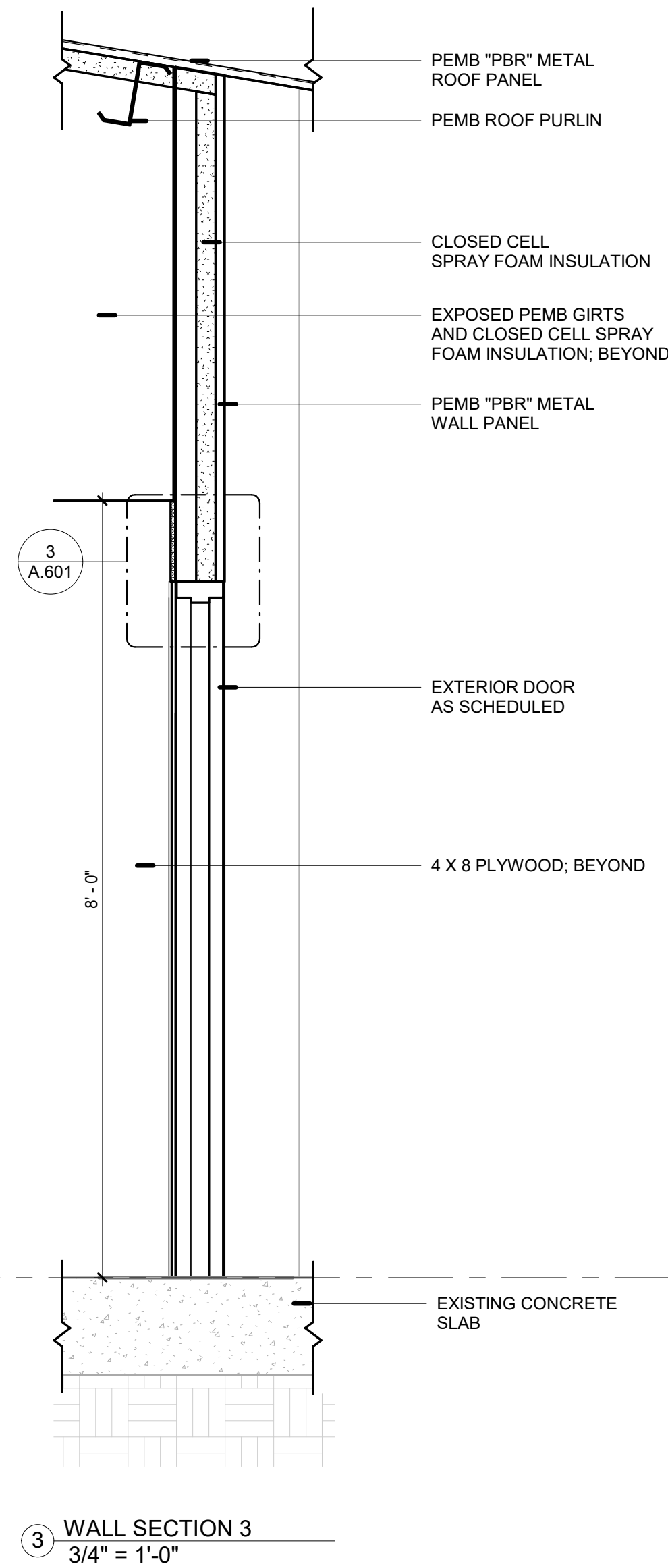
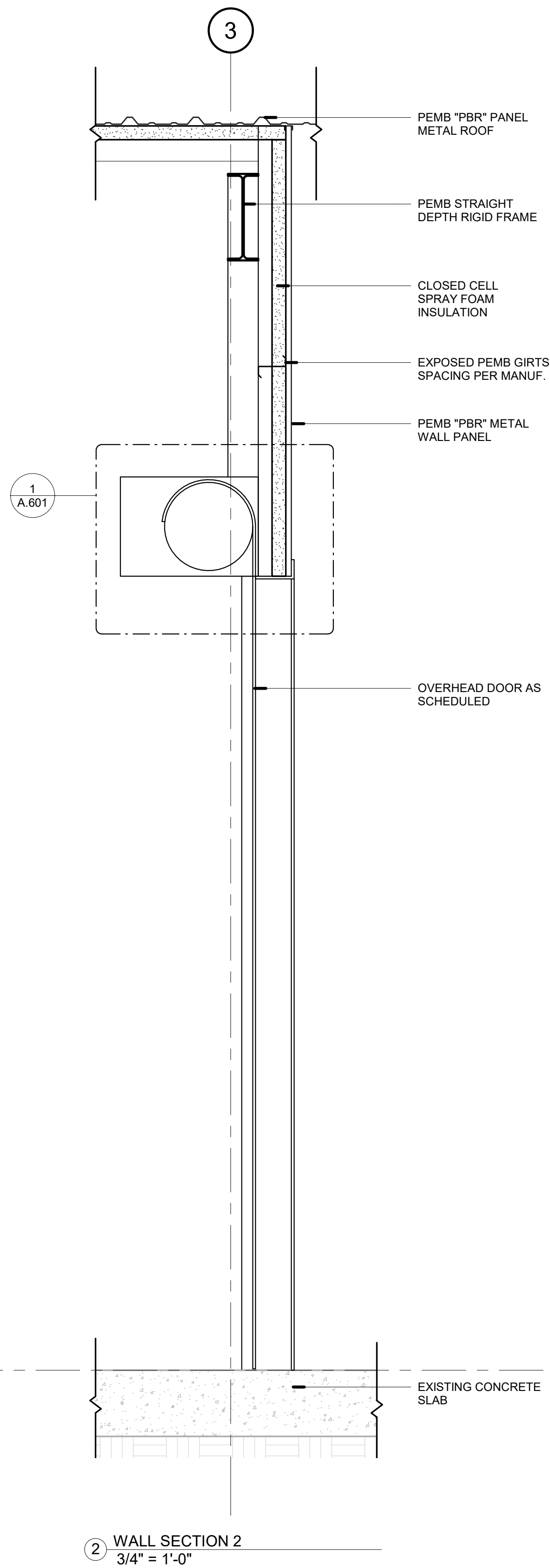
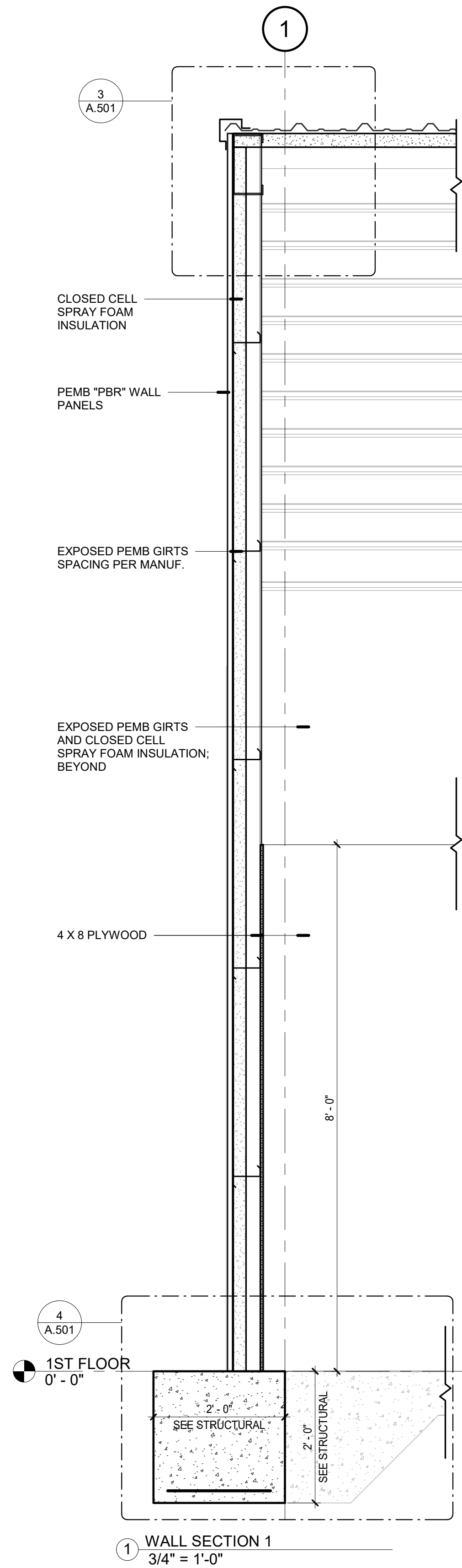
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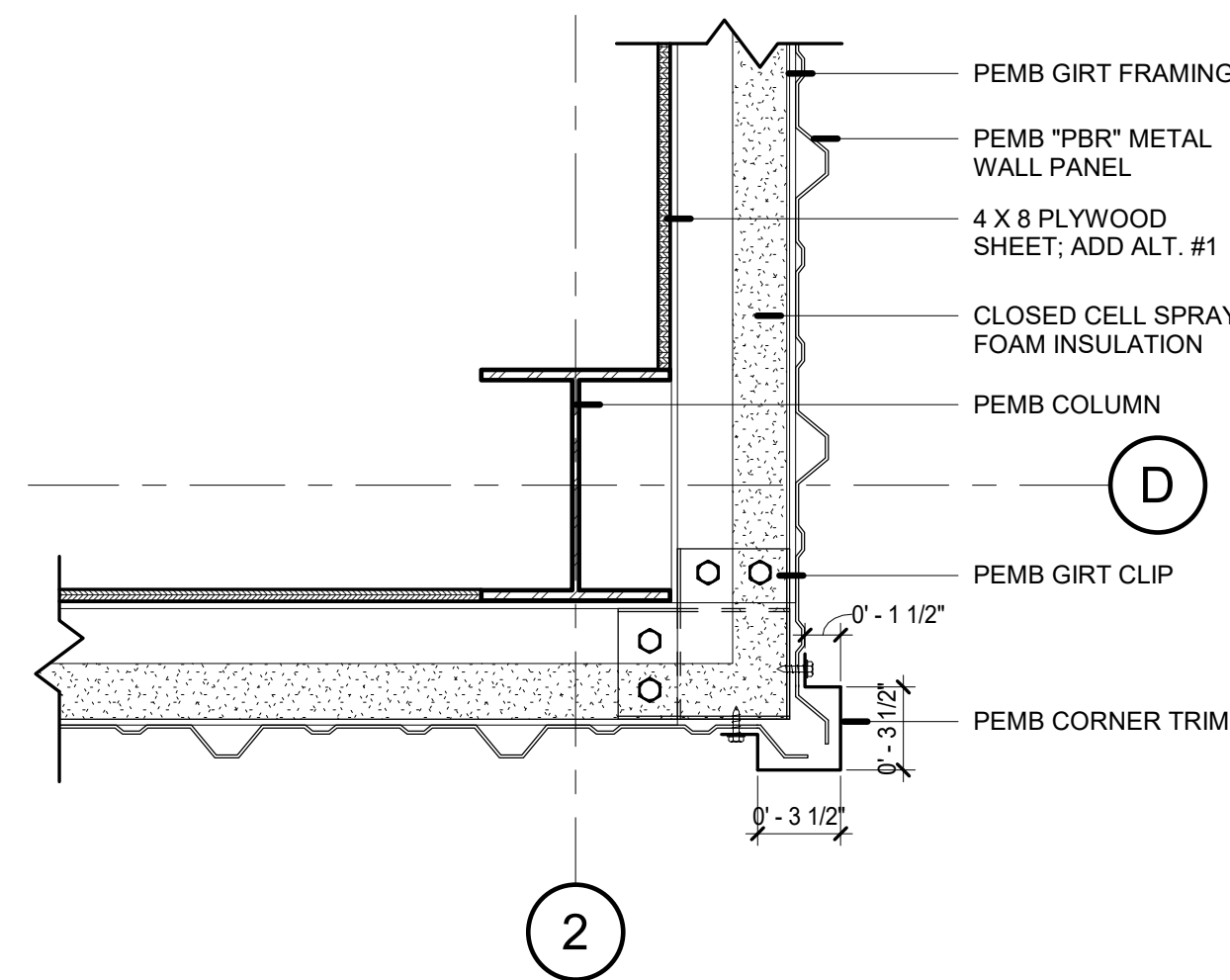
Marine Ops

Gulf Coast Research Laboratory
University of Southern Mississippi
703 E Beach Dr. Ocean Springs, MS 39564

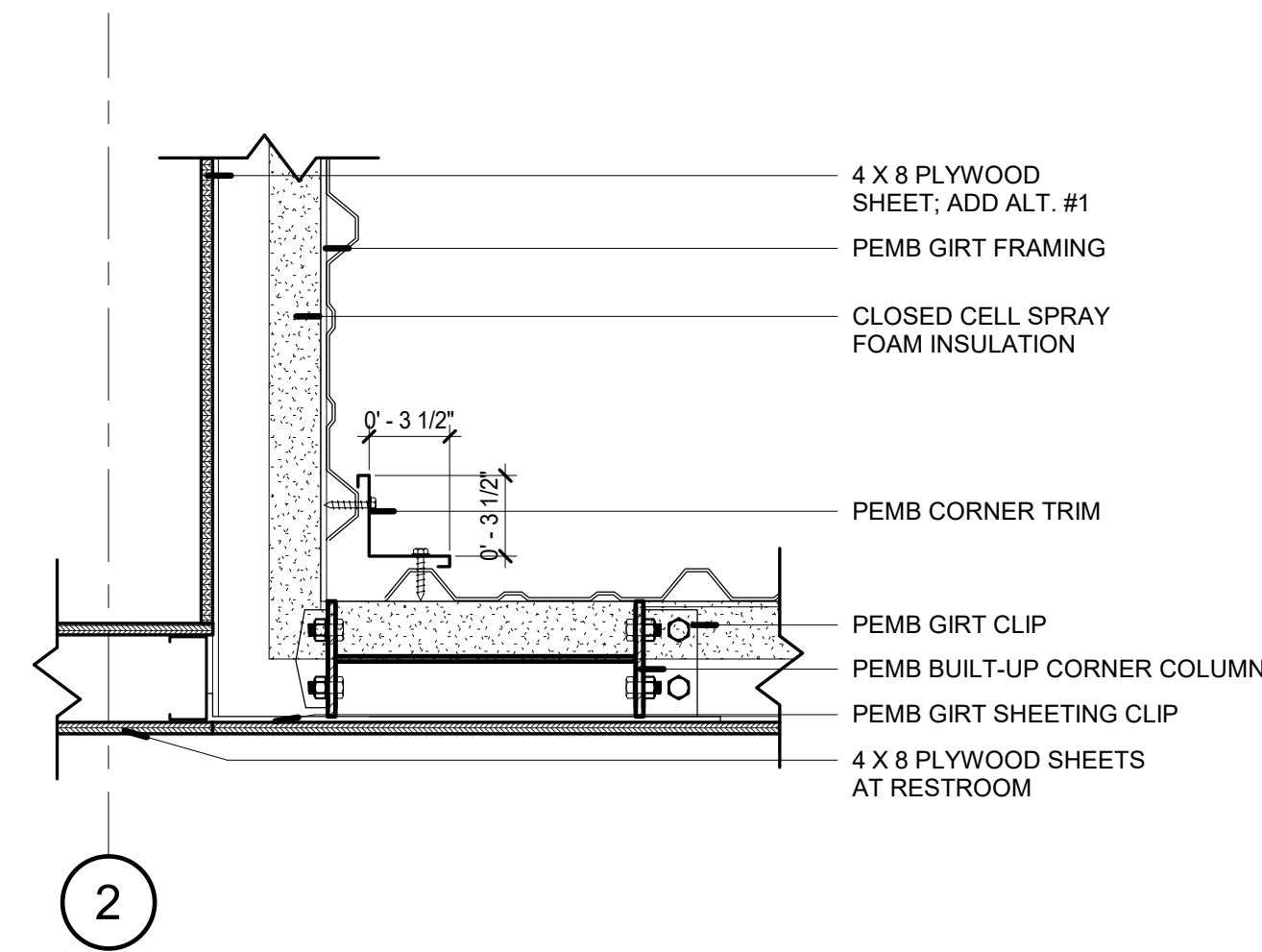
REVISIONS

No.	Description	Date
1	Revision 1	3.28.2022

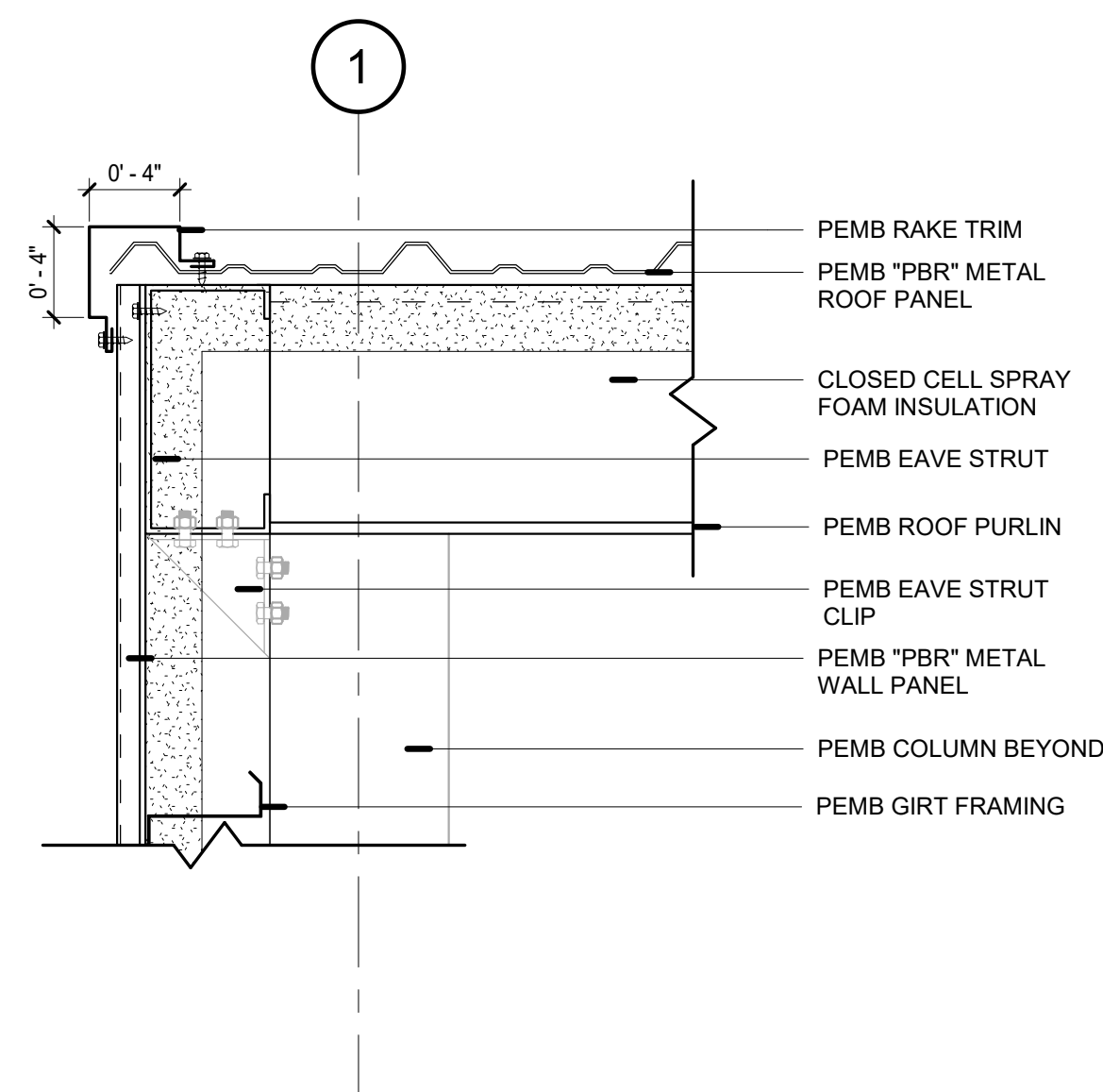
DATE: 1/24/22
 PHASE: CD
 ISSUED FOR: BIDDING
 PROJECT NO: 93



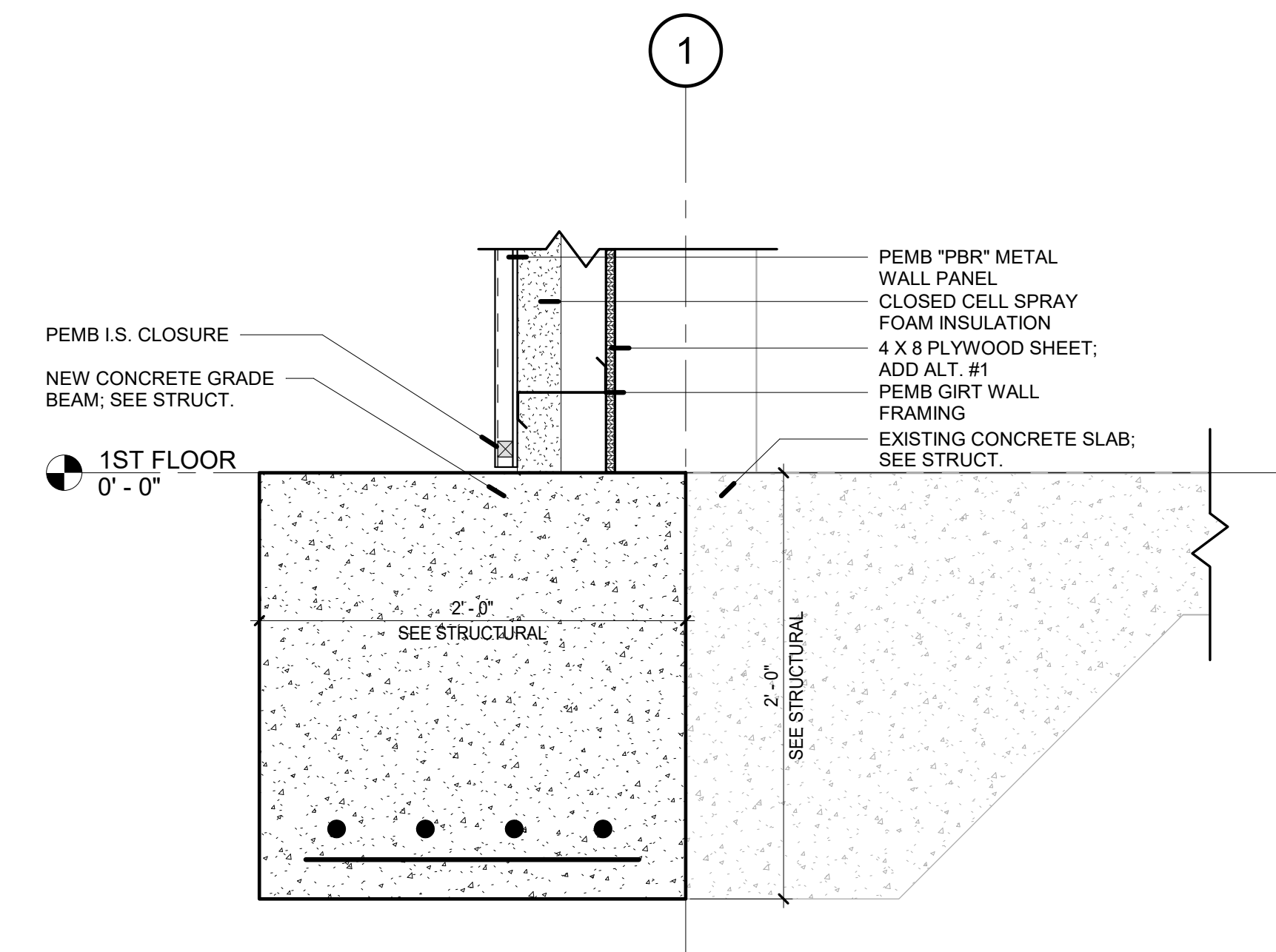
① PLAN DETAIL - TYP. OUTSIDE CORNER
1 1/2" = 1'-0"



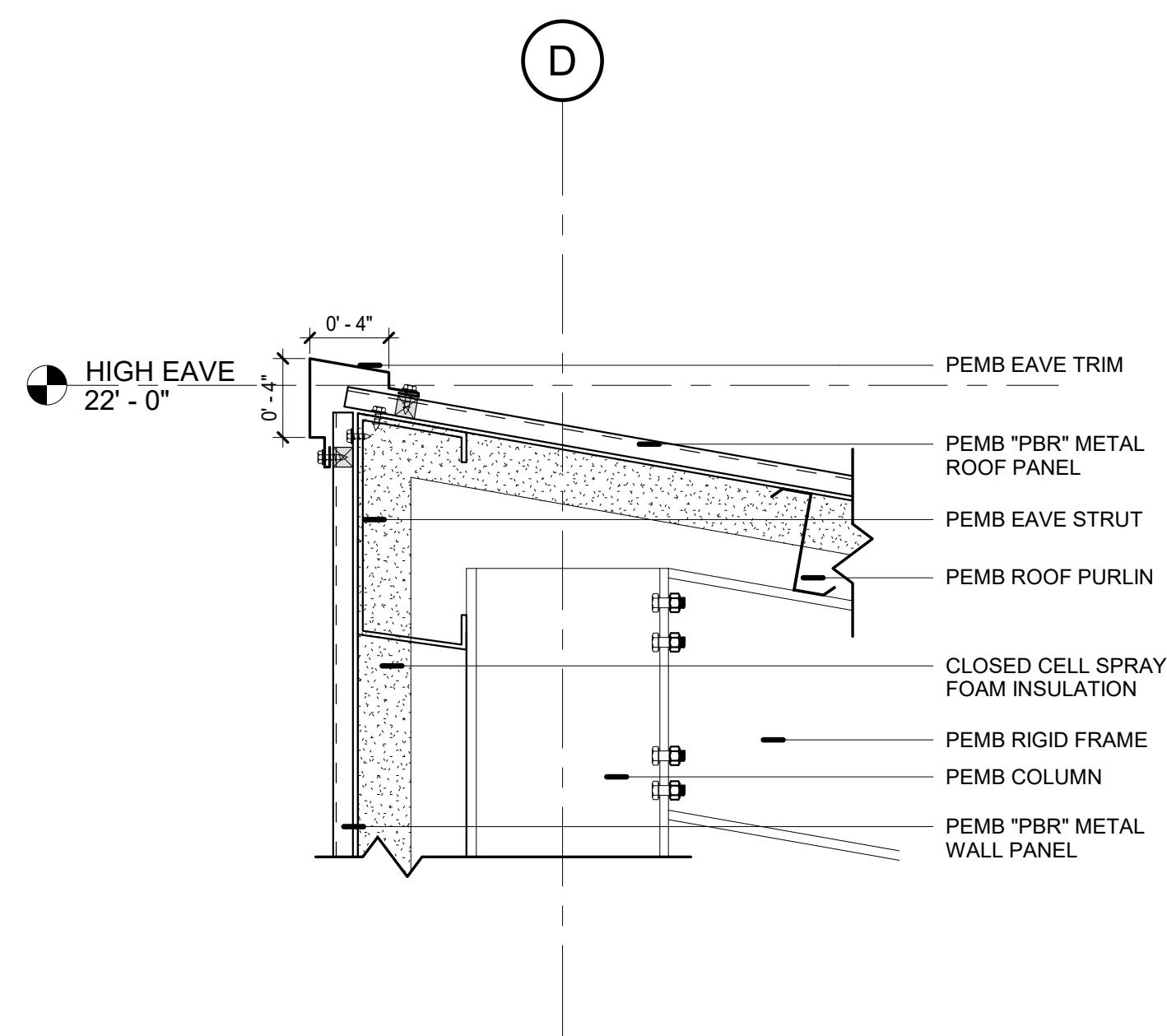
② PLAN DETAIL - TYP. INSIDE CORNER
1 1/2" = 1'-0"



③ TYPICAL RAKE DETAIL
1 1/2" = 1'-0"



④ TYPICAL FOUNDATION DETAIL
1 1/2" = 1'-0"



⑤ TYPICAL EAVE DETAIL
1 1/2" = 1'-0"

General Note

FOR ALL PRE-ENGINEERED METAL BUILDING (PEMB) ELEMENTS REFER TO MANUFACTURERS SHOP DRAWINGS FOR SIZES, SPACING, AND OTHER DETAILS.

GENERAL NOTE TO POTENTIAL BIDDERS

POTENTIAL BIDDERS TO BID ON METAL BUILDING PACKAGE SCOPE ONLY. METAL BUILDING PACKAGE SCOPE INCLUDES EXTERIOR WALL PANELS, ROOF PANELS, TRIM, EXTERIOR DOORS AND OVERHEAD DOORS. BID NOT TO INCLUDE ANY MECHANICAL, PLUMBING, ELECTRICAL OR FOUNDATION SCOPE. NO INTERIOR WALLS OR SPRAY FOAM INSULATION TO BE INCLUDED IN BID SCOPE.



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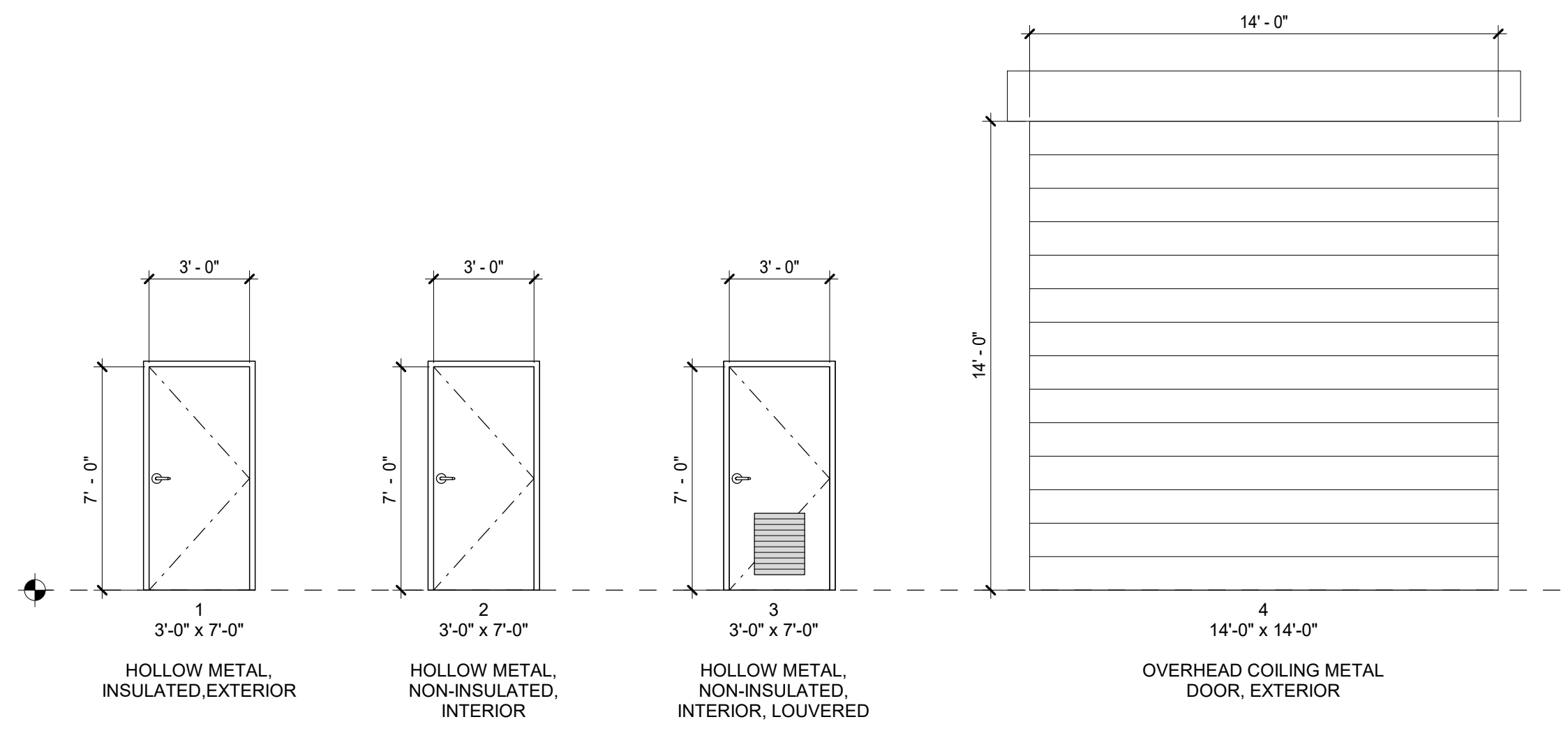
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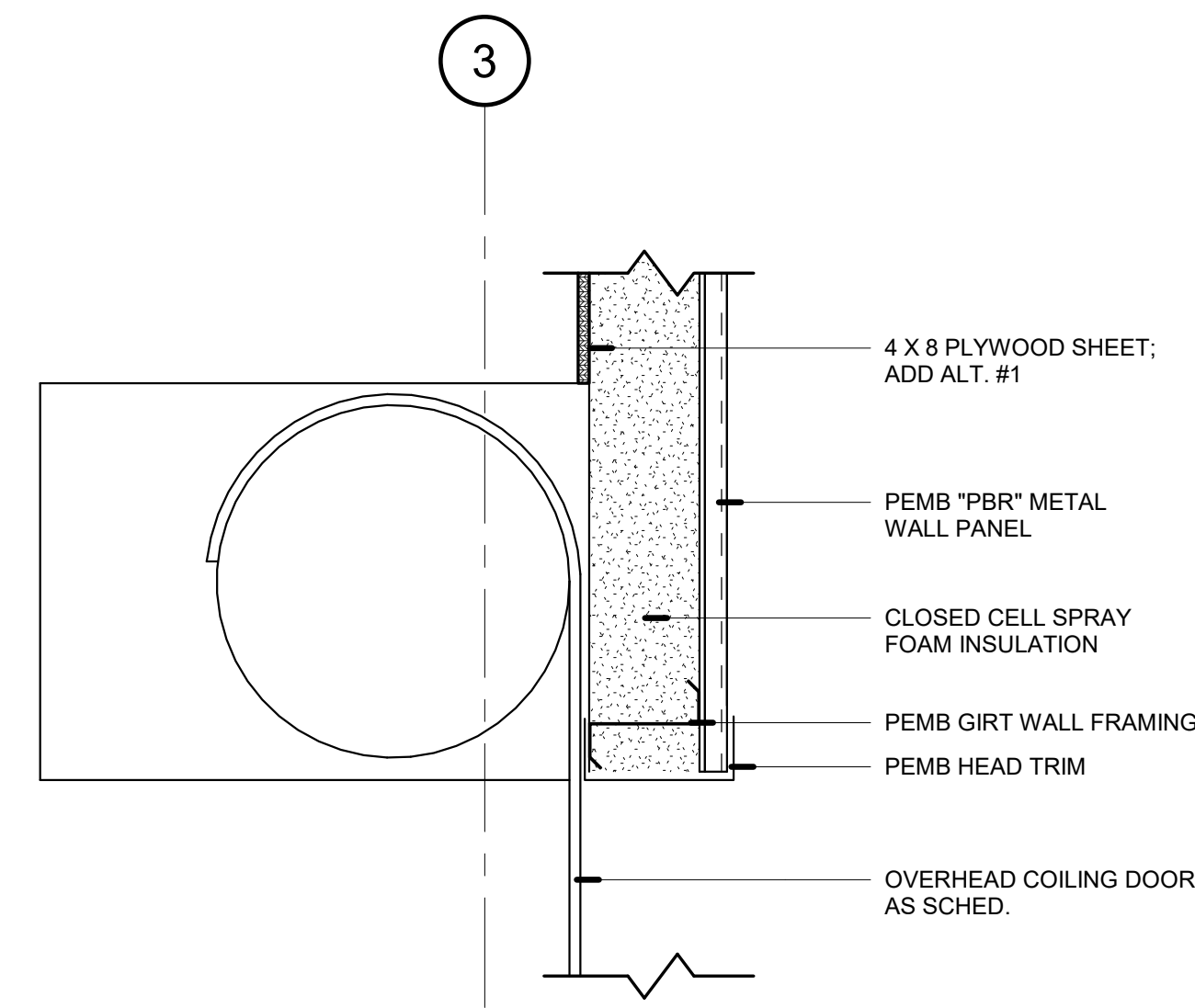
DETAILS



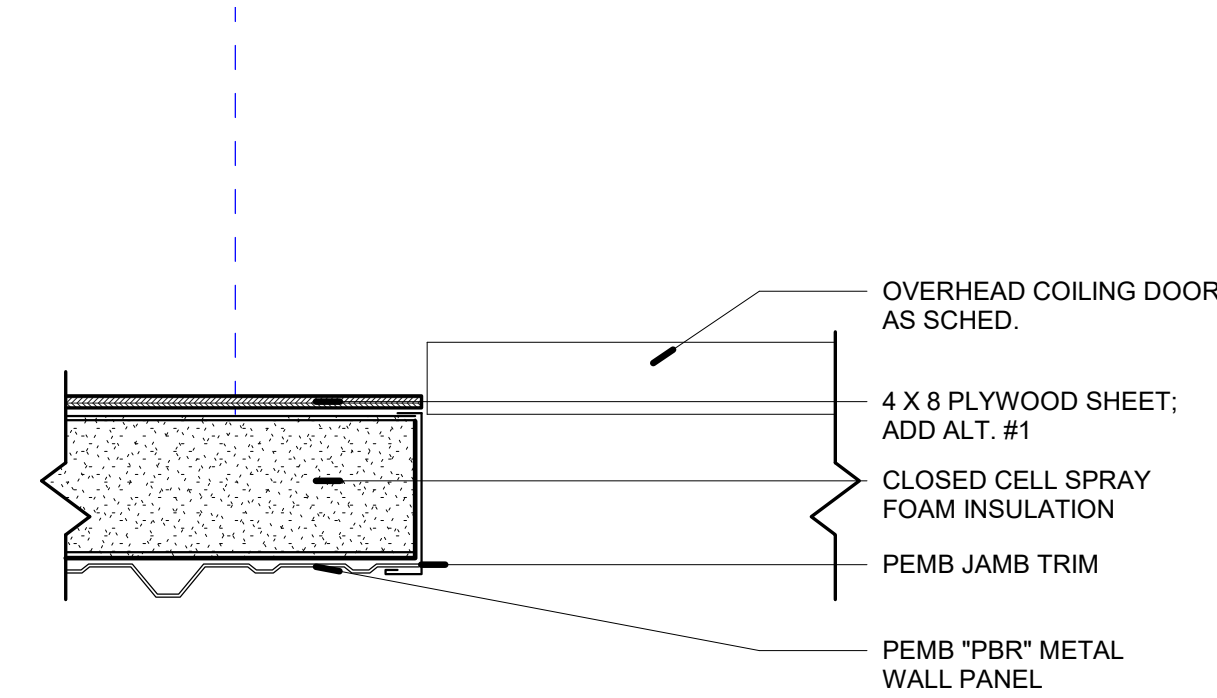
DOOR SCHEDULE									
NO.	TYPE	FINISH	WIDTH	HEIGHT	FRAME	FRAME FINISH	HEAD	JAMB	DESCRIPTION
1A	1	PTD	3'-0"	7'-0"	HM	PTD	3/A.601	4/A.601	EXTERIOR HOLLOW METAL DOOR; PROVIDED BY PEMB
1B	1	PTD	3'-0"	7'-0"	HM	PTD	3/A.601	4/A.601	EXTERIOR HOLLOW METAL DOOR; PROVIDED BY PEMB
1C	4	PTD	14'-0"	14'-0"	BY MANUF.	PTD	1/A.601	2/A.601	OVERHEAD COILING DOOR; PROVIDED BY PEMB
1D	4	PTD	14'-0"	14'-0"	BY MANUF.	PTD	1/A.601	2/A.601	OVERHEAD COILING DOOR; PROVIDED BY PEMB
3	2	PTD	3'-0"	7'-0"	HM	PTD			INTERIOR HOLLOW METAL DOOR
4	3	PTD	3'-0"	7'-0"	HM	PTD			INTERIOR HOLLOW METAL DOOR WITH VENT



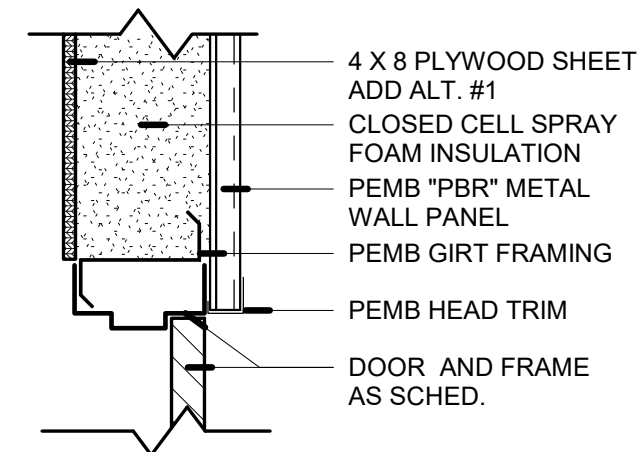
Door Types
1/4" = 1'-0"



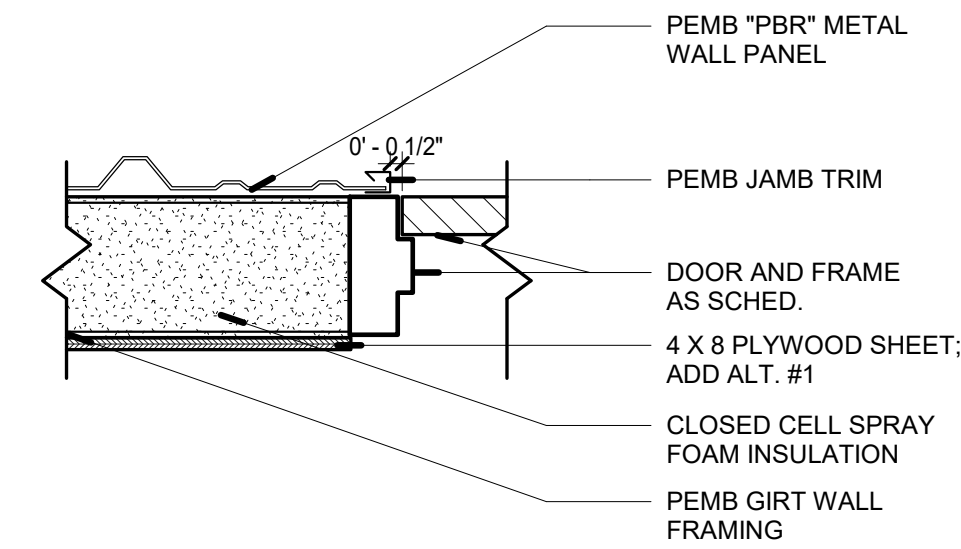
1 OVERHEAD DOOR HEAD DETAIL
1 1/2" = 1'-0"



2 TYP. GARAGE DOOR JAMB DETAIL
1 1/2" = 1'-0"



3 HOLLOW METAL DOOR HEAD DETAIL
1 1/2" = 1'-0"



4 TYP. HM DOOR JAMB DETAIL
1 1/2" = 1'-0"

GENERAL NOTE TO POTENTIAL BIDDERS

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**THE UNIVERSITY OF SOUTHERN MISSISSIPPI
GULF COAST RESEARCH LABORATORY
703 EAST BEACH DRIVE
OCEAN SPRINGS, MS 39564**

GENERAL TERMS, CONDITIONS AND INSTRUCTIONS FOR BIDS/PROPOSALS

- 1.) Failure to examine any drawings, specifications, and instructions will be at bidder's risk.
- 2.) Samples of items when called for must be furnished free of expense and if not destroyed in testing, will, upon request, be returned at the bidder's expense. Request for the return of samples must be made within ten (10) days following opening bids. Each individual sample must be labeled with bidder's name and manufacturer's brand name and number.
- 3.) Bids must be signed and sealed with bidder's name and address on the outside of the envelope, and the time and date of the bid opening and the bid file number shown in the lower-left corner of the packages; envelopes, express mailing labels, boxes, etc.
- 4.) In order for your bid to be considered, it must be received and time stamped in our office by 2:00 P.M. of the bid opening date. It is the responsibility of the vendor to ensure their bid is received within the appointed time. If your bid package is not received by 2:00 P.M. of the bid opening date, it will not be considered.

If you are delivering your bid, you need to hand carry the bid package to:

USM/Gulf Coast Research Lab
Procurement Services
Oceanography, Room 148
Ocean Springs, Mississippi

If you are sending your bid package via U.S. Postal Service, Federal Express, UPS, or any other delivery service deliver to:

Cathy Catchot
USM/Gulf Coast Research Laboratory
703 East Beach Drive
Ocean Springs, MS 39564

- 5.) Bids or proposals shall not be modified, corrected, altered, or amended after the specified closing time and the opening of such bids, unless otherwise noted in the request for bids or proposals.
- 6.) The University of Southern Mississippi reserves the right to reject any and all bids, to waive any informality in bids, and unless otherwise specified by the bidders, to accept any

items on the bid. If the bidder fails to state the time within which bids must be accepted, it is understood and agreed that The University of Southern Mississippi shall have 60 days to accept. The University of Southern Mississippi reserves the right to make an award to this bid on an all or none basis, or on a line by line basis, whichever serves the best interest of The University of Southern Mississippi.

- 7.) Contracts and purchases will be made or entered into with the lowest, responsible bidder meeting specifications.
- 8.) A written purchase order or contract award mailed or otherwise furnished to the successful bidder within the time of acceptance specified in the Invitation for Bid results in a binding contract without further action by either party. The contract shall not be assignable by the vendor in whole or in part without the written consent of The University of Southern Mississippi.
- 9.) Bid files may be examined during normal working hours by bid participants. Non-participants will be prohibited from obtaining any information relative to the bid until the official award has been made.
- 10.) If purchase orders or contracts are canceled because of the awarded vendor's failure to perform or request for price increase, that vendor shall be removed from our bidders' list for a period of 24 months.
- 11.) No addendum will be issued within a period of two (2) working days prior to the time and date set for the bid opening. Should it become necessary to issue an addendum within the two-day period prior to the bid opening, the bid date will be reset giving bidders ample time to answer the addendum.
- 12.) Alternate bids, unless specifically requested or allowed, will not be considered.
- 13.) Bid openings will be conducted open to the public. However, they will serve only to open the bids. No discussion will be entered into with any vendor as to the quality or provisions of the specifications, and no award will be made either stated or implied at the bid opening. After the close of the bid opening meeting, the bids will be considered to be in the evaluation process and will not be available for review by bidders. Proposal openings are not required to be open to the public; however, the resulting award is open for public inspection.
- 14.) Prices quoted shall be firm for the term of the contract or for the stated time of acceptance.
- 15.) The bidder understands that The University of Southern Mississippi is an equal opportunity employer and, therefore, maintains a policy which prohibits unlawful discrimination based on race, color, creed, sex, age, national origin, physical handicap, disability, or any other such discrimination; and the bidder, by signing this bid, agrees

during the term of agreement that the bidder will strictly adhere to this policy in its employment practices and provision of products or services.

- 16.) Bidders must upon request of The University of Southern Mississippi furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these specifications. The University of Southern Mississippi reserves the right to make the final determination as to the bidder's ability.
- 17.) Questions or problems arising from bid procedures should be directed to:

Cathy Catchot
USM/Gulf Coast Research Lab
703 East Beach Drive
Ocean Springs, MS 39564
Phone: (228) 872-4245
cathy.catchot@usm.edu

- 18.) All items must equal or exceed the specifications listed. The absence of detail specifications or the omission of detail description shall be recognized as meaning that only the best commercial practices are to prevail and that only first quality materials and workmanship are to be used.
- 19.) It is the intent of the specifications to obtain a product that will adequately meet the needs of the user while promoting the greatest extent of competition that is practicable. It is the responsibility of the prospective bidder to review the entire Invitation to Bid packet and to notify The University of Southern Mississippi if the Specifications, Instructions, General, or Special Conditions are formulated in a manner which would unnecessarily restrict competition.
- 20.) It shall be incumbent upon the bidders to understand the specifications. Any requests for clarifications shall be in writing and shall be submitted to our Procurement Services office at least five (5) days prior to the time and date set for the bid opening, unless otherwise noted in the bid or proposal specifications.
- 21.) The minimum specifications are used to set a standard and in no case are used with the intention to discriminate against any manufacturer. Bidders should note the name and the manufacturer and model number of the product they propose to furnish and submit descriptive literature.
- 22.) Trade names, brand names, and/or manufacturer's information used in these specifications are for the purpose of establishing quality, unless otherwise noted. Bids on products of other qualified manufacturers are acceptable, provided they are demonstrated as equal to those specified in construction, design and suitability. Each bidder shall submit with his bid a complete brochure with pictures on each item and shall point out specifically any deviations from the specified items. Failure to do so may disqualify any

bid. Please bid as specified or an approved equal.

- 23.) A copy of the manufacturer's standard guarantee/warranty shall accompany and become a part of this bid.
- 24.) There are no federal or state laws that prohibit bidders from submitting a bid lower than a price or bid given to the U.S. Government. Bidders may bid lower than U.S. Government contract price without any liability as The University of Southern Mississippi is exempt from the provisions of the Robinson-Patman Act and other related laws. In addition, the U.S. Government has no provisions in any of its purchasing arrangements with bidders whereby a lower price to The University of Southern Mississippi must automatically be given to the U.S. Government.
- 25.) All invoices, unless noted otherwise, are to be billed to:

The University of Southern Mississippi
Accounts Payable
118 College Drive #5104
Hattiesburg, MS 39406-0001
- 26.) All equipment bid shall be of current production and of the latest design and construction.
- 27.) Where all, or part(s), of the bid is requested on a unit price basis, both the unit prices and the extension of the unit prices constitute a basis of determining the lowest responsible and responsive bidder. In cases of error in the extension of price, the unit price will govern.
- 28.) Should the University of Southern Mississippi close due to inclement weather conditions, or any other unforeseen events on the bid opening date, sealed bids will open the following business day at the same time and location.
- 29.) As an alternative to traditional sealed bids in envelopes, the University of Southern Mississippi is capable of receiving electronic bid responses. While this option is available, it is not required and we ask that all potential respondents keep in mind that with any electronic system there could be delays or glitches with the submission process; therefore the University highly encourages traditional sealed bids which are either mailed or submitted in person. Should a vendor choose to submit their response electronically, please follow the instructions below using the following website: https://www.ms.gov/dfa/contract_bid_search/Home/Sell. On this site you will find helpful links to procurement opportunities, as well as a link to supplier registration. If not already registered in this system, potential bidders will first need to click on 'Supplier Registration' and follow the steps outlined (a one-time process). Once registered, they can return to the original website and click on 'Procurement Opportunities' where they can either search by keyword for the bid they desire to respond to or leave the search box blank and click 'Search' for a listing of all current bids and proposals for the various State

of Mississippi offices.

With regard to construction bids, there is one additional step required during the bid submission process. Along with the bid response and other attachments, contractors will also need to attach their Certificate of Responsibility (COR), or a statement that the bid enclosed does not exceed Fifty Thousand Dollars (\$ 50,000.00). If their COR or such statement is not attached, the bid will be invalid and not considered.

AA/EOE/ADA