

Architect's Supplemental Instructions

PROJECT: (name and address)

PRINTED NAME AND TITLE

08/26/2022 **DATE**

Fort Huachuca-New Ground Transport Egpm Bldg Contract for: Fort Huachuca Ground Transport Egpm Bldg Date: Corner of Arizona St. & Hunt St. 01 ASI Number: Fort Huachuca, AZ ASI Date: 08/26/2022 **OWNER:** (name and address) **ARCHITECT**: (name and address) **CONTRACTOR:** (name and address) AMG & Associates, Inc. **US Army Corps of Engineers** Hartmann Architecture Studio 26535 Summit Circle Los Angeles District 430 S. Carrillo Rd. Santa Clarita, CA 91350 915 Wilshire Blvd. Ojai, CA 93023 Los Angeles, CA 90017 The Contractor shall carry out the Work in accordance with the following supplemental instructions without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time. (Insert a detailed description of the Architect's supplemental instructions and, if applicable, attach or reference specific exhibits.) G.000 1. a. Updated Applicable Codes. 2. A.002 Removed gypsum sheathing product specifications. Added specifications for air and water barrier and fire-retardant plywood. 3. A.101 Revised wall schedule. a. b. Added wall type 5 at lavatory. c. Added detail references and dimensions along grid lines 1 and 6. **ISSUED BY THE ARCHITECT:** Hartmann Architecture Studio **ARCHITECT** (Firm name) **SIGNATURE** Martin Hartmann, AIA, Architect

CONTRACT INFORMATION:

Architect's Supplemental Instructions cont'd



- 4. A.102
 - a. Revised wall schedule.
 - b. Changed exterior walls to wall type 6.
- 5. A.103
 - a. Revised wall schedule.
 - b. Changed exterior walls to wall type 6.
- 6. A.104
 - a. Added downspouts and sizes.
 - b. Revised size of gutters.
 - c. Added expansion joints.
 - d. Revised roof material legend.
- 7. A.105
 - a. Added steel channel openings for mechanical ventilation.
- 8. A.201
 - a. Added detail 4.
- 9. A.203
 - a. Added detail 3.
- 10. A.304
 - a. Revised and added Z girts.
 - b. Added cove base detail reference.
 - c. Revised concrete cap detail reference.
- 11. A.305
 - a. Revised and added Z girts.
- 12. A.401
 - a. Removed/relocated details.
 - b. Added detail 7: typical cove base and curb.
 - c. Added detail 5: seismic joint at exterior cmu.

Architect's Supplemental Instructions cont'd



- d. Added detail 6: seismic joint at interior door.
- e. Revised detail 3: gutter and eave detail.
- f. Revised detail 2: gable detail.

Note: Delta 1 and Delta 2 revisions are part of RFI responses and not listed herein but are represented in the documents and RFI responses.

GENERAL PROJECT NOTES 22. AL 23. IN 26. IT 28. M FLOW OF WATER IN STREET OR ALLEY GUTTER. PROTECTION AGAINST DAMAGE SHALL BE PROVIDED TO SUCH UTILITY FIXTURES DURING THE PROGRESS OF THE WORK, BUT SIGHT OF THEM SHALL NOT BE OBSTRUCTED. 29. WHERE NOT SPECIFICALLY DESCRIBED IN ANY OF THE NOTES OR SPECIFICATIONS, WORKMANSHIP SHALL CONFORM TO THE METHODS AND OPERATIONS OF BEST STANDARDS AND ACCEPTED PRACTICES OF THE

RESPECTIVE TRADE.

| ENERAL PROJECT NOTES | | DRAWING |
|---|--|---|
| ALL WORK SHALL CONFORM TO THE 2021 EDITION INTERNATIONAL BUILDING CODE. THE DRAWINGS AND SPECIFICATIONS AND ALL COPIES THEREOF, ARE LEGAL INSTRUMENTS OF SERVICE FOR THE USE OF THE OWNER AND AUTHORIZED REPRESENTATIVE ON THE DESIGNATED PROPERTY ONLY. OTHER USE, WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE ARCHITECT, IS PROHIBITED. SPECIFICATIONS, DETAILS AND SCHEDULES WHICH MAY BE BOUND SEPARATELY. ARE PART OF THESE CONTRACT DOCUMENTS. DRAWINGS BY SEPARATELY. ARE PART OF THESE CONTRACT DOCUMENTS. ON SWINCH MAY SEE BOUND SEPARATELY. ARE PART OF THESE CONTRACT DOCUMENTS. OR LANDSCAPE) ARE SUPPLEMENTARY TO THE DESIGN DRAWINGS AND ARE PART OF THESE CONTRACT DOCUMENTS. THE CONTRACTOR OSHALL NOTIFY THE ARCHITECT IMMEDIATELY IF INFORMATION IS NOT SHOWN OR IS UNCLEAR. REPORT APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS TO THE ARCHITECT BEFORE PROCEDING WITH THE WORK TO SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FOR ALL WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDLING AND COORDINATING THE WORK FOR ALL UTILITIES AND SERVICES. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED AT DE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDLING AND COORDINATING THE WORK FOR ALL UTILITIES AND SERVICES. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWING ARE CONSIDERED TO BE CONSTRUCTIONS SHALL BE RESPONSIBLE FOR CONTRACTOR OF THE STANDARD SHALL SYSTIMG CONDITIONS. DESIGNATED AS, OR SEQUIRED TO INTERPER OWN THE ARCHITECTION. REPORT ANY DISCREPANCIES. DEFICIENCIES, OR CONDITIONS INCOMPATIBLE WITH PROPOSED CONSTRUCTION PRIOR TO PROVE TO PROVE THE OFFICE WITH IN PROPOSED CONSTRUCTION. REPORT ANY DISCREPANCIES. DEFICIENCIES, OR CONDITIONS INCOMPATIBLE WITH PROPOSED CONSTRUCTION PROVED TO PROVE THE OFFICE WITH IN PROPOSED CONSTRUCTION PROVED TO PROVE THE OFFICE WITH IN PROPOSED CONSTRUCTION PROVED TO PROVED THE CONTRACTOR OF THE OFFICE WAY ON | 32. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED AND PLACED SO AS NOT TO ENDANGER THE PUBLIC. THE WORKERS OR ADJOINING PROPERTY FOR THE DURATION OF THE CONSTRUCTION PROJECT. 33. REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES AND SANTIARY SAFEQUARDS SHALL BE MAINTAINED AT ALL TIMES DURING REMODELING, ALTERATIONS, REPAIRS OR ADDITIONS TO THE BULLDING UNLESS THE REQUIRED ELEMENTS OR BEYING SHEEN BEING ROOLED. ALLERS OF THE REQUIRED ELEMENTS OR BEYING SHEEN BEING ROOLED. 34. SERVICE UTILITY CONNECTIONS SHALL BE DISCONTINUED AND CAPPED IN ACCORDANCE WITH THE APPROVED RULES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. 35. SANTARY FACILITIES SHALL BE PROVIDED DURING CONSTRUCTION. REMODELING, OR DEMOLITION ACTIVITIES IN ACCORDANCE WITH 2021 IPC. 36. AREAS OF CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE PROVIDED WITH NOT LESS THAN ONE APPROVED PORT BALE FIRE EXTINGUISHER PER 2021 IPC. 37. REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. 38. PENETRATIONS OF FREE ASSISTANCE RATED WALLS AND HORIZONTAL ASSEMBLES SHALD BE PROFUEDED. 39. STRUCTURAL DESERVATION IN REQUIRED FOR THIS PROJECT AS INDICATED ON SHALL BE FROMED. 49. SENTER ATIONS OF FREE ASSISTANCE RATED WALLS AND HORIZONTAL ASSEMBLES SHALL BE PROTECTED AS REQUIRED IN ISC SECTIONS 714.4 AND SHEETS I.3 40. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOBS SITE AT THE TIME OF INSPECTION. 41. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION OWNER TO ENSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODRO SHEET STATES BUILT IN INCONFORMANCE WITH THE APPROVED DELAYS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODRO SHARED STORY THE ALL THE SUBJECT TO THE APPROVAL OF THE MIDDELING OF THE APPROVAL OF THE APPROVAL OF THE APPROVAL OF THE APPROVAL O | G-000 TITLE S A.001 SPECII A.002 SPECII A.100 OVERA A.101 FLOOF A.102 FLOOF A.103 RCP A.104 ROOF I A.105 ROOF A.201 EXTER A.202 EXTER A.202 EXTER A.204 EXTER A.301 BUILDI A.302 BUILDI A.303 BUILDI A.304 WALL A.305 WALL A.401 DETAII TOTAL NO OF SHEETS: |
| REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, FIXTURES, PARTITIONS, AND ALL WALL MOUNTED OR SUSPENDED MECHANICAL, KITCHEN, ELECTRICAL OR MISCELLANEOUS EQUIPMENT AND FURNISHING. CONTRACTOR SHALL VERIFY EXACT SIZES AND LOCATIONS OF ALL MECHANICAL | APPLICABLE CODES | |
| EQUIPMENT PADS, BASE STRUCTURES, ROOF OPENINGS, AS WELL AS POWER, WATER, DRAIN INSTALLATIONS AND STRUCTURAL STEEL SUPPORT LOCATIONS, WHEN APPLICABLE, WITH EQUIPMENT MANUFACTURERS BEFORE PROCEEDING WITH THE WORK. CHANGES TO ACCOMMODATE FIELD CONDITIONS OR APPROVED SUBSTITUTIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. ALL PIPES, CONDUIT, WIRES, AND DUCTS SHALL BE CONCEALED FROM VIEW UNO. ALL GLAZING INSTALLED IN HAZARDOUS LOCATIONS, AS DEFINED BY IBC CHAPTER 24, SHALL BE TEMPERED GLASS. SKYLIGHTS ARE TO BE TEMPERED GLASS OR FIBERGLASS AS SPECIFIED. LINSTALL SEALANT AT JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AND AT PENETRATIONS OF UTILITIES THROUGH THE BUILDING ENVELOPE, TO LIMIT AIR INFILTRATION. THE CONTRACTOR SHALL PROVIDE THE OWNER A LIST OF THE FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES INSTALLED IN THE BUILDING, AND INSTRUCTIONS ON HOW TO USE THEM EFFICIENTLY. THE INSTRUCTIONS SHALL BE CONSISTENT WITH SPECIFICATIONS SET FORTH BY THE EXECUTIVE DIRECTOR OF THE STATE ENERGY COMMISSION. THE ENERGY "CERTIFICATION OF COMPLIANCE" SHALL BE SUBMITTED AFTER THE INSTALLATION OF THE REQUIRED EQUIPMENT AND/OR MATERIAL, AND PRIOR TO ANY REQUEST FOR A FINAL INSPECTION. CONDITIONS OF APPROVAL: ALL WORK SHALL CONFORM TO THE CITY OF OJAI MINOR CONDITIONS OF APPROVAL AND PROPERTY OF OWNER'S GUIDELINES FOR THIS PROJECT. THE CONTRACTOR SHA;; READ THESE CONDITIONS FRIOR TO PREPARRINGBIS AND COMMENCING CONSTRUCTION, AND AVAILABLE DIRECTLY FROM THE OWNER. ITEMS IN THESE DRAWINGS NOT SPECIFICALLY IDENTIFIED AS EXISTING ARE ASSUMED TO BE NEW. ALL ASTM AND/OR ANSI DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATIONS. MATERIAL AND EQUIPMENT NECESSARY FOR WORK SHALL NOT BE PLACED OR STORED ON PUBLIC PROPERTY SO AS TO OBSTRUCT A FREE AND CONVENIENT APPROACH TO AND USE OF ANY FIRE HYDRANT, FIRE OR POLICE ALARM BOX, UTILITY BOX, CATCH BASIN OR MANHOLE OR SO AS TO INTERFERE WITH THE FREE FLOW | AMERICAN WITH DISABILITIES ACT NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS: NFPA 10-18 STANDARD FOR PORTABLE FIRE EXTINGUISHERS NFPA 13-16 STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS NFPA 14-16 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEM NFPA 20-16 STANDARD D FOR THE INSTALL. OF STATIONARY PUMPS FOR FIRE PROTECTION NFPA 24-16 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES NFPA 54-15 NATIONAL FUEL GAS CODE NFPA 72-16 NATIONAL FIRE ALARM AND SIGNALING CODE NFPA 80-16 STANDARD FOR FIRE DOORS AND OTHER OPENINGI PROTECTIVES NFPA 101-18 LIFE SAFETY CODE NFPA 101-18 LIFE SAFETY CODE NFPA 105-16 STANDARD FOR SMOKE DOOR ASSEMBLIES AND OTHER OPENING PROTECTIVES NFPA 170-18 STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS NFPA 221-18 STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS NFPA 252-17 STANDARD METHODS OF FIRE TESTS DOOR ASSEMBLIES NFPA 252-17 STANDARD METHOD OF TEST FOR CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS USING A RADIANT HEAT ENERGY SOURCE NFPA 257-17 STANDARD METHOD OF TEST FOR CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS USING A RADIANT HEAT ENERGY SOURCE NFPA 257-17 STANDARD METHOD OF TEST FOR CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS USING A RADIANT HEAT ENERGY SOURCE NFPA 257-17 STANDARD FOR FIRE TEST FOR WINDOW AND GLASS BLOCK ASSEMBLIES NFPA 720-15 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE (CO) DETECTION AND WARNING EQUIPMENT | |

AGENCY APPROVAL: DRAWING SHEET INDEX _E SHEET CIFICATIONS CIFICATIONS ERALL FLOOR PLAN OOR PLAN - GROUND LEVEL OOR PLAN - CRANE LEVEL OF PLAN OF TRUSS PLAN ERIOR ELEVATIONS - EAST ERIOR ELEVATIONS - SOUTH ERIOR ELEVATIONS - WEST ERIOR ELEVATIONS - NORTH LDING SECTIONS LDING SECTIONS ILDING SECTIONS ALL SECTIONS ALL SECTIONS TAILS (805) 530-5559 ETS: 19 CONSULTANTS: STATUS: FOR CONSTRUCTION FT. HUACHUCA NEW OWNER: US CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017 CONTRACTOR: AMG & ASSOCIATES 26535 SUMMIT CIRCLE SANTA CLARITA, CALIFORNIA 91350 (661) 251 - 7401 amgassociatesinc.com PROJECT ADDRESS: CORNER OF ARIZONA ST. & HUNT ST.



GROUND TRANSPORT EQUIPMENT BUILDING

FORT HUACHUCA, ARIZONA

DATE 08/23/2022 ASI #01

PROJECT INFORMATION: PROJECT NUMBER: PROJECT PHASE:

DRAWN BY: REVIEWED BY:

THE ORIGINAL SIZE OF THIS SHEET IS 36"x24". IF THE CURRENT SIZE IS OTHER THAN 36"x24", THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDINGLY.

SHEET TITLE:

TITLE SHEET

2022.003

SHEET NUMBER:

G-000

PART 1 GENERAL

1.01 SUMMARY

A. Installation of roofing underlayment, high temperature on surfaces indicated on drawings, consisting of preparation of existing and repaired roof deck surfaces. Selection of roof deck or insulation substrate and/or use of a primer or adhesive are the responsibility of the architect, specifier or roofing contractor to determine based on the roof assembly and environmental conditions.

1.02 RELATED SECTIONS

A. Section 061000 - Rough Carpentry. D B. Section 073113 - Asphalt Shingles.

C. Section 073116 - Metal Shingles.

D. Section 073119 - Mineral-Fiber Cement Shingles.

E. Section 073126 - Slate Shingles.

F. Section 073129 - Wood Shingles and Shakes. G. Section 073200 - Roof Tiles.

H. Section 076100 - Sheet Metal Roofing.

1.03 REFERENCES

A. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic

Elastomers - Tension B. ASTM D461 - Standard Test Methods for Felt.

C. ASTM D 903 - Standard Test Method for Peel or Stripping Strength of Adhesive

D. ASTM D1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam

E. ASTM D3767 - Standard Practice for Rubber — Measurement of Dimensions. F. ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials.

G. ASTM G90 - EMMAgua test.

1.4 SYSTEM DESCRIPTION

A. Product provided by this Section is a high temperature, self-adhesive roofing underlayment membrane consisting of not less than 40 mils thickness, consisting of 36 mils of rubberized asphalt membrane laminated to a 4-mil skid-resistant membrane that is available in either black or white.

1.05 SUBMITTALS

A. General: Submit in accordance with Section 01 30 00.

B. Product Data: Submit manufacturer's product literature and installation instructions. C. Subcontractor's approval by Manufacturer: Submit document stating manufacturer's

acceptance of subcontractor as an Approved Applicator for the specified materials. D. Warranty: Submit a sample warranty identifying the terms and conditions stated in Section 1.07.

Section 1.06 QUALITY ASSURANCE

A. Applicator Qualifications: Applicator shall have 5 years of experience in applying the same or similar materials and shall be specifically approved in writing by the membrane manufacturer.

B. Regulatory Requirements: Comply with applicable codes, regulations, ordinances, and laws regarding use and application of products that contain volatile organic

C. Pre-Application Conference: Prior to beginning work, convene a conference to review conditions, installation procedures, schedules and coordination with other work.

1.07 WARRANTY

A. Upon completion and acceptance of the work required by this section, the manufacturer will issue a warranty agreeing to promptly replace defective materials installed by an approved applicator for a period of 5 years.

B. The formation or presence of mold or fungi in a building is dependent upon a broad range of factors including, but not limited to, the presence of spores and nutrient sources, moisture, temperatures, climatic conditions, relative humidity, and heating/ventilating systems and their maintenance and operating capabilities. These factors are beyond the control of Carlisle and Carlisle shall not be responsible for any claims, repairs, restoration, or damages relating to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like in any building or in the air, land, or water serving the building.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to project site in original, factory-sealed, unopened containers bearing manufacturer's name and label intact and legible with following information. 1. Name of material.

2. Manufacturer's stock number and date of manufacture.

3. Material safety data sheet. B. Store materials in protected and well-ventilated area. Protect from damage from sunlight, weather, excessive temperatures and construction operations. Remove

1.09 PROJECT CONDITIONS

regulations.

A. Do not apply membrane when surface temperature is below or inclement weather conditions conflict with manufacturer's published requirements.

damaged material from the site and dispose of in accordance with local applicable

B. Coordinate waterproofing work with other trades. The applicator shall have sole right of access to the specified areas for the time needed to complete the installation. C. Warn personnel against breathing of vapors and contact of material with skin or

eyes. Wear applicable protective clothing and respiratory protection gear. D. Keep flammable products away from spark or flame. Do not allow the use of spark

producing equipment during application and until all vapors have dissipated. Post "NO SMOKING" signs. E. Maintain work area in a neat and orderly condition, removing empty containers, rags, and rubbish daily from the site.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide CCW MiraDRI 860/861 Sheet Membrane Waterproofing as manufactured by Carlisle Coatings and Waterproofing Incorporated, 900 Hensley Lane, Wylie, Texas 75098, Phone: (800) 527-7092 Fax: (972) 442-0076.

2.02 PRODUCTS

A. High temperature, self-adhesive roofing underlayment membrane consisting of not less than 40 mils thickness, consisting of 36 mils of rubberized asphalt membrane laminated to a 4-mil skid-resistant membrane, and shall meet or exceed the

following requirements: 1. Thickness: 40 mils, ASTM D 1970 2. Tensile Strength (Machine Direction): 250 psi, ASTM D 412

3. Tensile Strength (Transverse Direction): 1390 psi, ASTM D 412

4. Elongation at Break Machine Direction: 250% minimum, ASTM D 412 5. Elongation at Break Transverse Direction: 170% minimum, ASTM D 412

6. Adhesion to Plywood at 75°F: 35 lbs./ft., ASTM D 1970

7. Lap Seam Adhesion: 21.0 lb/in, ASTM D 1970

8. Sealability Around Nail: Pass, ASTM D 1970

9. Slip Resistance: Pass, ASTM D 1970

10. Slip Resistance: Pass ASTM D 1970

11. Thermal Stability: Pass ASTM D 1970 12. Moisture Vapor Permeance: 0.02 perms ASTM D 1970

13. Water Absorption: 0.5% ASTM D 1970 B. For application of air temperatures below 40°F, use CCW-702, CCW-702WB, Cav-Grip

2.03 ACCESSORY PRODUCTS

or CCW-AWP.

A. Surface Primer: Shall be CCW-702, CCW-702WB, CCW-AWP or Cay-Grip. B. Sealants: Shall be approved sealants by CCW.

PART 3 EXECUTION

3.01 INSPECTION

A. Before any underlayment work is started the waterproofing applicator shall thoroughly examine all surfaces for any deficiencies or unsatisfactory conditions detrimental to the proper completion of the work. Should any deficiencies exist, the architect, owner, or general contractor shall be notified in writing. Do not proceed with work until all deficiencies or unsatisfactory conditions are corrected.

3.02 SURFACE PREPARATION

A. Refer to manufacturer's literature for requirements for preparation of substrates. Surfaces shall be structurally sound and free of voids, spalled areas, loose aggregate and sharp protrusions. Remove contaminants such as grease, oil and wax from exposed surfaces. Remove dust, dirt, loose stone and debris. Use repair materials and methods which are acceptable to manufacturer of sheet membrane waterproofing.

3.03 INSTALLATION

A. Install roofing underlayment on sloped surfaces at locations indicated on the Drawings, but not less than at hips, ridges, eaves, valleys, sidewalls and chimneys.

Strictly comply with manufacturer's installation instructions including but not limited to the following:

1. Schedule installation such that underlayment is covered by roofing within the published exposure limit of the underlayment.

2. Do not install underlayment on wet or frozen substrates. 3. Install when surface temperature of substrate is a minimum of 40 degrees F (5

degrees C) and rising. 4. Remove dust, dirt, loose materials and protrusions from deck surface.

5. Install membrane on clean, dry, continuous structural deck. Fill voids and damaged or unsupported areas prior to installation.

6. Prime concrete and masonry surfaces using specified primer at a rate of 300-350 square feet per gallon. Priming is not required for other suitable clean and dry surfaces when temperatures are above 40°F. 7. Install membrane such that all laps shed water. Work from the low point to the

high point of the roof at all times. Apply the membrane in valleys before the membrane is applied to the eaves. Following placement along the eaves, continue application of the membrane up the roof. Membrane may be installed either vertically or horizontally after the first horizontal course.

lines marked on underlayment 9. Patch penetrations and damage using manufacturer's recommended methods.

8. Side laps minimum 3 inches and end laps minimum 6 inches (152 mm) following lap

3.04 CLEANING AND PROTECTION

A. Protection: Protect from damage during construction operations and installation of

roofing materials. Promptly repair any damaged or deteriorated surfaces. B. Repair minor damage to eliminate all evidence of repair. Remove and replace work

which cannot be satisfactorily repaired in the opinion of the Architect. C. Provide temporary protection to ensure work being without damage or deterioration at time of final acceptance. Remove protective film and reclean as necessary immediately before final acceptance.

End of Section

SECTION 074203.01 EXPOSED FASTENER

PART 1 GENERAL

FACTORY MANUFACTURED PREFORMED WALL PANELS

1.01 DESCRIPTION OF WORK

A. This section covers the pre-finished, pre-fabricated exposed fastener metal roof and wall system. All metal trim, accessories, fasteners, insulation and sealants

indicated on the drawings as part of this section. B. Drawings and general provisions of the Contract, including general and

Supplementary Conditions and Division 01 Specifications, apply to this section. C. Related Work Specified Elsewhere

1. Roof Deck structural steel, flat roof systems, perimeter edge systems. Roof

hatches, firestopping not included in this section.

1. Factory formed exposed fastener metal roof and wall panels

B. Related work specified elsewhere. (Note: select from the below or add appropriate sections)

1. Section 051200 - Structural Steel

2. Section 052100 or 054000 - Steel Joists 3. Section 076000 - Flashing and Sheet Metal

1.03 DEFINITIONS A. Metal Roof/Wall Panel Assembly: Metal roof/ panels, attachment system components, miscellaneous metal framing, thermal, and accessories necessary for a

complete weathertight roofing system. B. References: 1. American Society for Testing and Materials (ASTM)

a. ASTM A 653: Steel Sheet, Zinc Coated by the Hot Dip Process b. ASTM A 792: Steel Sheet, Aluminum-Zinc Alloy Coated by the Hot Dip Process c. ASTM B 209: Aluminum and Aluminum Alloy Sheet and Plate

d. ASTM B370 Standard Specification for Copper Sheet and Strip for Building Construction 2. Sheet Metal and Air Conditioning Contractors National Association (SMACNA)

a. SMACNA Architectural Sheet Metal Manual, 1993 edition

3. American Iron and Steel Institute (AISI) a. AISI Cold Formed Steel Design Manual

4. Aluminum Association

a. Aluminum Design Manual 5. Metal Construction Association

a. Preformed Metal Wall Guidelines 6. Code References

a. ASCE, Minimum Loads for Buildings and Other Structures

b. BOCA National Building Codes c. UBC Uniform Building Code

d. SBC Standard Building Code

A. Petersen Aluminum Corp, Elk Grove Village, IL, 800-323-1960 products establish a

minimum of quality required. B. Manufacturer and erector shall demonstrate experience of a minimum of five (5)

years in this type of project. C. Panels shall be factory-produced only. No portable, installer-owned or installerrented machines will be permitted.

1.05 SUBSTITUTIONS

1.04 QUALITY ASSURANCE

A. The material, products and equipment specified in this section establish a standard for required function, dimension, appearance and quality to be met by any proposed

B. Manufacturers listed in this section are prequalified manufacturers. Substitution of manufacturer's products for those specified shall not be allowed at any time during construction.

1.06 SYSTEM DESCRIPTION

A. Material to comply with:

1. ASTM A792/A792M Standard Specification for Sheet Steel, 55% Aluminum-Zinc Alloy Coated by the Hot-Dip process

1.07 ROOF SYSTEM PERFORMANCE TESTING

A. General Performance: Metal roof/wall panels shall comply with performance requirements without failure due to defective manufacture, fabrication, installation or other defects in construction.

B. Roof System shall be designed to meet Standard Building Code Wind Load

requirements.

1. Exposed Panels Finish - deterioration includes the following: .

C. Panels to meet: 1. Roof/Wall System shall be designed to meet applicable Local Building Code and the System shall have tested by the Manufacturer per ASTM E-1592 and have the applicable Load Tables published from this testing for loads.

1.08 WARRANTIES

A. Finish warranty: Manufacturer's standard form in which manufacturer agrees to repair finish or replace standing seam metal roof panels that show evidence of deterioration of factory-applied finish within specified warranty period.

a. Color fading more than 5 hunter units when tested according to ASTM D 2244 b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214 c. Cracking, checking, peeling or failure of a paint to adhere to a bare metal. 2. Warranty Period: 20 Years from the date of substantial completion B. Applicator shall furnish written warranty for a two (2) year period from date of

substantial completion of building covering repairs required to maintain roof and flashings in watertight condition.

1.09 SUBMITTALS

A. Furnish detailed drawings showing profile and gauge of exterior sheets, location and type of fasteners, location, gauges, shape and method of attachment of all trim locations and types of sealants, and any other details as may be required for a

weather-tight installation. B. Provide finish samples of all colors specified.

C. Shop drawings: Show fabrication and installation layouts of metal roof panels, metal wall panels or metal soffit panels, details of edge conditions, side-seam joints, panel profiles, corners, anchorages, trim, flashings, closures and accessories, and special details. Distinguish between factory and field-assembled work

D. Coordination Drawings: Roof plans, drawn to scale, on which the following are shown and coordinated with each other, based on input from installer of the items involved: 1. Roof panels and attachments 2. Metal trusses, bracings and supports

E. LEED Submittals 1. Product Test reports for Credit SS 7.2. For roof panels, indicating that the panels comply with Solar Reflective Index requirement

2. Product data for Credit MR 4.1 and credit MR 4.2: Indicating the percentages by

weight of postconsumer and preconsumer recycled content for products having

3. Roof-mounted items including snow guards and items mounted on roof curbs.

1.10 DELIVERY, STORAGE AND HANDLING

recycled content.

A. Ordering: Comply with manufacturer's ordering instruction and lead time requirements to avoid construction delays.

B. Deliver components, sheets, metal roof/wall panels and other manufactured items so as not to be damaged or deformed. Package metal roof/wall panels for protection during transportation and handling.

C. Unload, store and erect metal roof/wall panels in a manner to prevent bending, warping, twisting and surface damage.

D. Stack metal roof panels on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal roof/wall panels to ensure dryness. Do not store metal roof panels in contact with other materials that might cause staining, denting or other surface damage

E. Protect strippable protective coating on any metal coated product from exposure to

sunlight and high humidity, except to the extent necessary for material installation.

1.11 PROJECT CONDITIONS

A. Weather Limitations: proceed with installation only when existing and forecasted

B. Field Measurements: Verify actual dimensions of construction contiguous with metal

weather conditions permit metal roof panel work to be performed.

A. Coordinate sizes and locations of roof curbs, equipment supports and roof

roof panels by field measurements before fabrication.

1.12 COORDINATION

penetrations with actual equipment provided. B. Coordinate metal roof panels with rain drainage work, flashing, trim and construction

PART 2 PRODUCTS

noncorrosive installation.

2.01 PANEL DESIGN A. General: Provide factory-formed, prefinished, lappable exposed fastener, structural ribbed metal roof/wall panel system, that has been pretested and certified by

of decks, parapet walls and other adjoining work to provide a leakproof, secure and

manufacturer to comply with specified requirements under installed conditions. B. Roof panels shall be exposed fastener R-36 Panels with 11/4" deep profile ribs, 12" on center, total coverage of Roof/Wall panels when installed shall be 36" coverage. C. Structural Requirements: Engineer panels for structural properties in accordance

with latest edition of American Iron and Steel Institute's Cold Formed Steel Design Manual using effective width concept and Aluminum Associations Aluminum Design D. Forming: Use continuous end rolling method. No end laps on panels. No portable

rollforming machines will be permitted on this project, no installer-owned or installer-rented machines will be permitted. It is the intent of the Architect to provide Factory-Manufactured panel systems only for this project.

E. Panels shall be directly fastened to the substrate. F. The panel shall have an overlapping sidelap feature.

2.02 ACCEPTABLE MANUFACTURERS A. This project is detailed around the roofing product of Petersen Aluminum Corporation

Petersen Aluminum Corp, Elk Grove Village, IL, 800-323-1960, R-36 Panel.

2.03 MATERIALS AND FINISHES

A. Preformed roofing panels shall be fabricated of 22 GA Steel B. Color shall be Sandstone.

C. Texture: Panel shall be smooth. D. Finish shall be Kynar 500 or Hylar 5000 Fluorocarbon coating with a top side film thickness of 0.70 to 0.90 mil over a 0.25 to 0.3 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil, to meet AAMA 621. Bottom side shall be coated

adhesions, flexibility and longevity as specified by Kynar 500 or Hylar 5000 finish supplier. E. If Strippable coating to be applied on the pre-finished panels to the top side to

with a primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for

protect the finish during fabrication, shipping and handling, film shall be removed before installation. F. Trim: Trim shall be fabricated of the same material and finish to match the profile, and will be press broken in lengths of 10 to 12 feet. Trim shall be formed only by the manufacturer of their approved dealer. Trim to be erected in overlapped condition. Use lap strips only as indicated on drawings. Miter conditions shall be factory welded material to match the sheeting. Trim to be fabricated in accordance with standard

SMACNA procedure and details. G. Closures: shall be pre-molded polyethylene to match the profile of the exposed

fastener panel and shall be in lengths as supplied by the panel manufacturer. H. Accessories/Fasteners: Fasteners shall be of type, material, size, corrosion resistance, holding power and other properties required to fasten miscellaneous framing members to substrates. Accessories and their fasteners shall be capable of resisting the specified design wind uplift forces and shall allow for thermal movement of the roof panel system. Exposed fasteners shall not restrict free movement of the roof panel system resulting from thermal forces, except at designed points of roof panel fixity

2. Screws for panel to girt/purlins shall be sufficient to penetrate the supporting member by 1". All fasteners shall be applied in accordance with the fastening schedule as provided by panel manufacturer. 3. Screws for flashings and sidelaps shall be #14 HHA x 3/4" sheet metal stitch

screws. All accessories, flashings and sidelaps shall be fastened 12" OC.

1. Fasteners shall have combination steel and EPDM washers

Substrate shall be Metal Purlins J. Caulking: Shall be a polyurethane where it is exposed and there is no thermal movement. All caulking and sealing shall be done in a neat manner with excess caulking or sealant removed from exposed surfaces.

I. Caulking shall be non-skinning, non hardening gun grade butyl sealant or butyl sealant tape with a minimum thickness of ?" where it is concealed and where thermal movement must be accommodated. All caulking or sealing shall be done in a neat

J. Vapor Retarder: retarder with a permeance of 0.05 or less as determined by ASTM

manner with excess caulking or sealant removed from exposed surfaces.

2.04 FABRICATION

A. Comply with dimensions, profile limitations, gauges and fabrication details shown and if not shown, provide manufacturer's standard product fabrication. B. Fabricate components of the system in factory, ready for field assembly.

C. Fabricate components and assemble units to comply with fire performance requirements specified. D. Apply specified finishes in conformance with manufacturer's standard, and

according to manufacturer's instructions. E. Panels are lappable. It is recommended that individual aluminum roof panels not

movement reasons. F. Panels shall be roll formed on a stationary industrial type rolling mill to gradually shape the sheet metal. Portable rollformers rented or owned by the installer, are not acceptable.

exceed 16' in length and steel roof panels not exceed 32' in length for thermal

PART 3 EXECUTION

3.01 INSPECTION

A. Examine alignment of structural steel and related supports, primary and secondary roof framing, solid roof sheathing, prior to installation. Components should comply

B. For the record, prepare written report, endorsed by installer, listing conditions detrimental to performance of the Work.

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

with shop drawings and be smooth, even, sound and free of depressions.

3.02 FASTENERS

A. Secure units to supports

B. Place fasteners as indicated in manufacturer's standards.

3.03 INSTALLATION

A. Panels shall be installed plumb and true in a proper alignment and in relation to the structural framing. The erector must have at least five years successful experience with similar applications.

B. Install metal panels, fasteners, trim and related sealants in accordance with approved shop drawings and as may be required for a weather-tight installation. Conform to standards set forth in SMACNA architectural sheet metal manuals and approved shop drawings for this project.

C. Remove all strippable coating and provide a dry-wipe down cleaning of the panels as they are erected. D. Install panel system so it is watertight, without waves, warps, buckles or distortions,

and allow for thermal movement considerations. E. Abrasive devices shall not be used to cut on or near roof or wall panel system. F. Apply sealant tape or caulking as necessary at flashing and panel joints to prevent

G. Remove any strippable film immediately upon exposure to direct sunlight. H. Vapor retarder: The joints, perimeter, and all openings shall be sealed per the

manufacturer's instructions to provide a continuous vapor retarder.

I. Underlayment (solid substrate): 1. Provide one layer of 30# felt with horizontal overlaps and endlaps staggered between layers.

2. Provide ice and water shield membrane at all valley and eave conditions as well as

any area at less than a 3:12 slope. 3. Lay parallel to ridge line with 2 1/2" horizontal laps and 6" vertical laps

A. Upon determination of responsibility, repair or replace damaged metal panels and trim to the satisfaction of the Architect and Owner.

END OF SECTION

3.04 DAMAGED MATERIAL

SECTION 074213.02

PREFORMED METAL STANDING SEAM ROOFING

PART 1 GENERAL

1.01 DESCRIPTION OF WORK A. This section covers the pre-finished, pre-fabricated Architectural standing seam roof

system. All metal trim, accessories, fasteners, insulation and sealants indicated on the drawings as part of this section. B. Drawings and general provisions of the Contract, including general and

Supplementary Conditions and Division 01 Specifications, apply to this section. C. Related Work Specified Elsewhere 1. Roof Deck structural steel, flat roof systems, perimeter edge systems. Roof

1.02 SUMMARY

hatches, firestopping not included in this section.

A. Section Includes 1. Factory formed Standing Seam metal roof panels B. Related work specified elsewhere. (Note: select from the below or add appropriate

2. Section 052100 or 054000 - Steel Joists 3. Section 076000 - Flashing and Sheet Metal

1. Section 051200 - Structural Steel

1.03 DEFINITIONS A. Metal Roof Panel Assembly: Metal roof panels, attachment system components, miscellaneous metal framing, thermal, and accessories necessary for a complete

B. References:

weathertight roofing system. 1. American Society for Testing and Materials (ASTM)

b. ASTM A 792: Steel Sheet, Aluminum-Zinc Alloy Coated by the Hot Dip Process c. ASTM B 209: Aluminum and Aluminum Alloy Sheet and Plate d. ASTM B370 Standard Specification for Copper Sheet and Strip for Building

a. ASTM A 653: Steel Sheet, Zinc Coated by the Hot Dip Process

Construction 2. Sheet Metal and Air Conditioning Contractors National Association (SMACNA) a. SMACNA Architectural Sheet Metal Manual, 1993 edition

4. Aluminum Association a. Aluminum Design Manual 5. Metal Construction Association

6. Code References

1.04 QUALITY ASSURANCE

vears in this type of project.

rented machines will be permitted.

3. American Iron and Steel Institute (AISI)

a. Preformed metal Wall Guidelines

a. AISI Cold Formed Steel Design Manual

a. ASCE, Minimum Loads for Buildings and Other Structures b. BOCA National Building Codes c. UBC Uniform Building Code

d. SBC Standard Building Code

A. Products establish a minimum of quality required. B. Manufacturer and erector shall demonstrate experience of a minimum of five (5)

C. Panels shall be factory-produced only. No portable, installer-owned or installer-

1.05 SUBSTITUTIONS

A. The material, products and equipment specified in this section establish a standard for required function, dimension, appearance and quality to be met by any proposed substitution.

1.06 SYSTEM DESCRIPTION

A. Material to comply with: 1. ASTM A792/A792M Standard Specification for Sheet Steel, 55% Aluminum-Zinc Alloy Coated by the Hot-Dip process

1.07 ROOF SYSTEM PERFORMANCE TESTING

A. General Performance: Metal roof panels shall comply with performance requirements without failure due to defective manufacture, fabrication, installation or other

defects in construction. B. Roof System shall be designed to meet Standard Building Code Wind Load

requirements. C. Panels to meet:

1. Water Penetration: When tested per ASTM E-283/1680 and ASTM E-331/1646 there shall be no uncontrolled water penetration or air infiltration through the

2. Roof System shall be designed to meet a UL Class 90 wind uplift in accordance with UL standard 580 and panel system shall be ASTM 1592 Tested and approved

3. UL 2218 - Impact Resistance rated.

1.08 WARRANTIES

A. Weathertight warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace standing seam metal roof panel assemblies that fail to remain weathertight, including leaks, within specified warranty period.

1. Warranty Period: 20 Years from date of Substantial Completion B. Finish warranty: Manufacturer's standard form in which manufacturer agrees to repair finish or replace standing seam metal roof panels that show evidence of deterioration of factory-applied finish within specified warranty period.

1. Exposed Panels Finish - deterioration includes the following: a. Color fading more than 5 hunter units when tested according to ASTM D 2244 b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214

c. Cracking, checking, peeling or failure of a paint to adhere to a bare metal. 2. Warranty Period: 20 Years from the date of substantial completion C. Applicator shall furnish written warranty for a two (2) year period from date of substantial completion of building covering repairs required to maintain roof and

1.09 SUBMITTALS

A. Furnish detailed drawings showing profile and gauge of exterior sheets, location and type of fasteners, location, gauges, shape and method of attachment of all trim locations and types of sealants, and any other details as may be required for a weather-tight installation.

wall panels or metal soffit panels, details of edge conditions, side-seam joints, panel profiles, corners, anchorages, trim, flashings, closures and accessories, and special details. Distinguish between factory and field-assembled work D. Coordination Drawings: Roof plans, drawn to scale, on which the following are shown

C. Shop drawings: Show fabrication and installation layouts of metal roof panels, metal

and coordinated with each other, base don input from installer of the items involved: 1. Roof panels and attachments

1.10 DELIVERY, STORAGE AND HANDLING

B. Provide finish samples of all colors specified.

flashings in watertight condition.

2. Metal trusses, bracings and supports 3. Roof-mounted items including snow guards and items mounted on roof curbs. E. LEED Submittals

1. Product Test reports for Credit SS 7.2. For roof panels, indicating that the panels comply with Solar Reflective Index requirement 2. Product data for Credit MR 4.1 and credit MR 4.2: Indicating the percentages by weight of postconsumer and preconsumer recycled content for products having recycled content.

requirements to avoid construction delays. B. Deliver components, sheets, metal roof panels and other manufactured items so as not to be damaged or deformed. Package metal roof panels for protection during

A. Ordering: Comply with manufacturer's ordering instruction and lead time

transportation and handling. C. Unload, store and erect metal roof panels in a manner to prevent bending, warping, twisting and surface damage. D. Stack metal roof panels on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal roof panels to ensure dryness. Do not store

metal roof panels in contact with other materials that might cause staining, denting

E. Protect strippable protective coating on any metal coated product from exposure to sunlight and high humidity, except to the extent necessary for material installation.

1.11 PROJECT CONDITIONS

or other surface damage.

weather conditions permit metal roof panel work to be performed. B. Field Measurements: Verify actual dimensions of construction contiguous with metal

roof panels by field measurements before fabrication.

penetrations with actual equipment provided.

A. Weather Limitations: proceed with installation only when existing and forecasted

1.12 COORDINATION A. Coordinate sizes and locations of roof curbs, equipment supports and roof

B. Coordinate metal roof panels with rain drainage work, flashing, trim and construction

of decks, parapet walls and other adjoining work to provide a leakproof, secure and noncorrosive installation.

PART 2 PRODUCTS

weathertight installation.

2.01 PANEL DESIGN A. General: Provide factory-formed metal roof panels designed to be installed by lapping and interconnecting raised side edges of adjacent panels with joint type

indicated and mechanically attaching panels to supports using concealed clips in

side laps. Include clips, cleats, pressure plates and accessories required for a

B. Roof panels shall be Snap Clad standing seam in 18" widths with 1 3/4" high seam.

F. Forming: Use continuous end rolling method. No end laps on panels. No portable

rollforming machines will be permitted on this project, no installer-owned or

C. Panels to be produced with Factory supplied hot melt mastic in the seams.

D. Panels to be produced Smooth - Factory Standard. E. Panels to be designed for attachment with concealed fastener clips, spaced as required by the manufacturer to provide for both positive and negative design loads. while allowing for the expansion and contraction of the entire roof system resulting from variations in temperature.

installer-rented machines will be permitted. It is the intent of the Architect to provide Factory-Manufactured panel systems only for this project.

2.02 ACCEPTABLE MANUFACTURERS

2.03 MATERIALS AND FINISHES

A. This project is detailed around the roofing product of Petersen Aluminum Corporation , Snap Clad.

A. Preformed roofing panels shall be fabricated of 22 GA Steel B. Color shall be Sandstone C. Finish shall be Kynar 500 or Hylar 5000 Fluorocarbon coating with a top side film thickness of 0.70 to 0.90 mil over a 0.25 to 0.3 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil, to meet AAMA 621. Bottom side shall be coated with a primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for

D. If Strippable coating to be applied on the pre-finished panels to the top side to protect the finish during fabrication, shipping and handling, film shall be removed before installation.

adhesions, flexibility and longevity as specified by Kynar 500 or Hylar 5000 finish

E. Trim: Trim shall be fabricated of the same material and finish to match the profile, and will be press broken in lengths of 10 to 12 feet. Trim shall be formed only by the manufacturer of their approved dealer. Trim to be erected in overlapped condition. Use lap strips only as indicated on drawings. Miter conditions shall be factory welded material to match the sheeting.

hartmannarchitecturestudio.com

STATUS:

FT. HUACHUCA NEW **GROUND TRANSPORT**

LOS ANGELES, CALIFORNIA 90017 CONTRACTOR:

LOS ANGELES DISTRICT

915 WILSHIRE BLVD.

(661) 251 - 7401 amgassociatesinc.com

26535 SUMMIT CIRCLE

ISSUE: MARK DATE DESCRIPTION

SHEET NUMBER:

HARTMANNARCHITECTURESTUDIO.COM 430 S. CARRILLO RD. OJAI, CALIFORNIA 93023 (805) 530-5559

CONSULTANTS:

AGENCY APPROVAL

FOR CONSTRUCTION



EQUIPMENT BUILDING

OWNER: US CORPS OF ENGINEERS

AMG & ASSOCIATES

SANTA CLARITA, CALIFORNIA 91350

PROJECT ADDRESS: CORNER OF ARIZONA ST. & HUNT ST.

FORT HUACHUCA, ARIZONA

PROJECT INFORMATION:

PROJECT NUMBER:

SHEET TITLE:

PROJECT PHASE: DRAWN BY: REVIEWED BY:

SPECIFICATIONS

DATE: 07/07/22

THE ORIGINAL SIZE OF THIS SHEET IS 36"x24". IF THE CURRENT SIZE IS OTHER THAN 36"x24", THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDINGLY

2022.003

MEH

MEH

- F. Closures: use composition or metal profiled closures at the top of each elevation to close ends of the panels. Metal closures to be made in the same material and finish as face sheet.
- G. Fasteners: Fasteners shall be of type, material, size, corrosion resistance, holding power and other properties required to fasten miscellaneous framing members to
- substrates. H. Substrate shall be 5/8" Fire-rated Plywood
- I. Roofing Underlayment
- 1. On all surfaces to be covered with roofing material, furnish and install a 40 mil Peel & Stick membrane, required as outlined by metal panel manufacturer. Membrane to be a minimum of 40 mil thickness, smooth, non-granular, high temperature. Basis of design: Carlisle WIP 300 HT High Temperature Protection Self Adhering Roofing Underlayment. Other acceptable manufacturers include: a. W.R Grace "Ice & Water Shield"
- b. Interwrap Titanium PSU-30
- c. Tamko TW Tile and Metal Underlayment 2. Underlayment shall be laid in horizontal layers with joints lapped toward the eaves a minimum of 6, and well secured along laps and at ends as necessary to properly
- hold the felt in place. All underlayment shall be preserved unbroken and whole. 3. Peel and Stick Underlayment shall lap all hips and ridges at least 12 to form double thickness and shall be lapped 6 over the metal of any valley or built-in
- gutters and shall be installed as required by the Standing Seam Panel Manufacturer to attain the desired 20 Year Weathertightness Warranty.
- 1. Provide two-part polysulfide class B non-sag type for vertical and horizontal joints
- 2. one part polysulfide not containing pitch or phenolic extenders or 3. Exterior grade silicone sealant recommended by roofing manufacturer or
- 4. One part non-sag, gun grade exterior type polyurethane recommended by the roofing manufacturer.

2.04 FABRICATION

- A. Comply with dimensions, profile limitations, gauges and fabrication details shown
- and if not shown, provide manufacturer's standard product fabrication. B. Fabricate components of the system in factory, ready for field assembly.
- C. Fabricate components and assemble units to comply with fire performance
- requirements specified. D. Apply specified finishes in conformance with manufacturer's standard, and according to manufacturer's instructions.

PART 3 EXECUTION

3.01 INSPECTION

- A. Examine alignment of structural steel and related supports, primary and secondary roof framing, solid roof sheathing, prior to installation.
- B. For the record, prepare written report, endorsed by installer, listing conditions detrimental to performance of the Work.
- C. Proceed with installation only after unsatisfactory conditions have been corrected

3.02 FASTENERS

- A. Secure units to supports
- B. Place fasteners as indicated in manufacturer's standards.

3.03 INSTALLATION

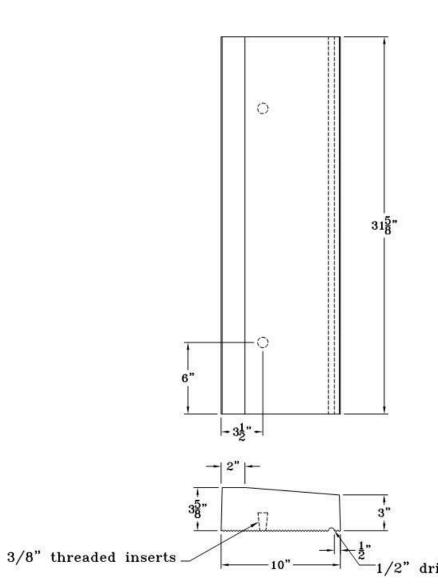
- A. Panels shall be installed plumb and true in a proper alignment and in relation to the structural framing. The erector must have at least five years successful experience with similar applications.
- B. Install metal panels, fasteners, trim and related sealants in accordance with
- approved shop drawings and as may be required for a weather-tight installation. C. Remove all strippable coating and provide a dry-wipe down cleaning of the panels as they are erected.

3.04 DAMAGED MATERIAL

A. Upon determination of responsibility, repair or replace damaged metal panels and trim to the satisfaction of the Architect and Owner.

END OF SECTION

SI 155 S 31-5/8 dp ti Weight Concrete ±75 lbs.



CONCRETE CAP



CCMC #13286-R · CCMC #13289-R Made in USA. © 2021, Berry Global, Inc.

 $TYPAR {\rm ``saregistered\,trademark\,of\,Berry\,Global,Inc.\,or\,its\,affiliate.}$ Please visit TYPAR.com for installation instructions and warranty information

Building Wraps | Flashings | Construction Tape | Fasteners

BUILDING AIR BARRIER SYSTEM

TYPAR METROWRAP **THREE-PART SPECIFICATIONS**

PART 1. GENERAL

1.1 Summary

A. This Section specifies TYPAR MetroWrap applied as a water-resistive barrier and air barrier assembly on exterior walls.

A. Product Data: Submit manufacturer's product data and installation instructions.

B. Samples: Submit 12" (300mm) square sample for approval.

1.3 Quality Assurance

- 1. Obtain primary materials from a single manufacturer regularly engaged in manufacturing building wraps. Obtain secondary materials from a source acceptable to the primary materials manufacturer
- 1. Minimum two years experience with installation of similar building wraps.

PART 2. PRODUCTS

A. Berry Global, Inc., 70 Old Hickory Blvd, Old Hickory, TN 37138; +1 615-847-7000; www.TYPAR.com.

2.2 Water-Resistant Barrier

- A. Material shall comply with the following: 1. Thickness: 0.121" average.
 - 2. Breaking Strength Test: 94 pounds mean value per ASTM D5034. 3. Water Vapor Transmission: 9-15 perms (grains per hr.in. Hg.sqft) per ASTM E96, dessicant method.
 - 4. Pliability: No signs of cracking per AC38, Sec. 3.3.4.
 - 5. Ultraviolet Exposure: Not less than 10 months prior to exterior cladding coverage. 6. Accelerated Aging Cycling: No signs of failure at 21 days per AC38.
 - 7. Water Resistance Test: Exceeds one hour per ASTM D779. 8. Elongation: 19" mean value per ASTM D5034, 4" wide sample.
 - 9. Air Penetration Resistance (Gurley Hill Porosity) [TAPPI T 460] [sec/100cc] >4800. 10. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84.

Flame Spread: Pass. Smoke Spread: Pass. NFPA 285: Pass.

2.2 Manufacturer's Accessory Products - Sealing Tape/Fasteners A. Tape: TYPAR® Construction Tape.

- 1. Description:
 - a. Face Material Composition: Polyethylene barrier. b. Face Color: Gray.
- c. Adhesive Composition: Acrylic. d. Thickness: 3.6mil.
- e. Dimensions: 1-7/8" x 165; 3" x 165."
- 2. Performance Characteristics:
 - a. Temperature Resistance: 0°F (-18°C) Min. application temperature; 230°F (110°C) Max. application temperature. b. Peel Adhesion PSTC-1*
 - c. Tensile Strength PSTC 31* *Pressure-Sensitive Tape Council.
- a. Primer: Polyken spray adhesive or equal. b. Flashing Tape: TYPAR® All-Temperature Flashing, TYPAR® Flexible Flashing, and TYPAR® Butyl Flashing.
- c. Fastener: Fastener is dependent on substrate construction. d. Sealant: Must comply with ASTM C920 elastomeric polymer sealant. B. Flashing: TYPAR Butyl Flashing.
 - a. Face Material Composition: Polyethylene barrier
 - b. Face Color: Gray. c. Adhesive Composition: Butyl rubber adhesive.
 - d. Thickness: 18.5mil.
 - e. Release Liner: Kraft paper f. Dimensions: 4" x 25'; 4" x 75'; 6" x 75'; 9" x 75'; 12" x 75'.

TYPAR

TYPAR® METROWRAP™ – THREE-PART SPECIFICATIONS

- 2. Performance Characteristics:
 - a. Low Temp Pliability ASTM C765 PASS. b. Nail Sealability ASTM D1970 PASS.
- c. Tensile Strength ASTM D5034-95 PASS. d. Peel Adhesion: ASTM D3330-04 PASS.
- 3 Accessories
 - a. Primer: Polyken spray adhesive or equal. b. Seam Tape: TYPAR* Construction Tape.
 - c. Fastener: Fastener is dependent on substrate construction. d. Sealant: Must comply with ASTM C920 elastomeric polymer sealant.
- C. Recommended Sealants Against TYPAR* Logo-Side Coating: 1. Elastomeric polymer-based, butyl rubber, rubber-based, meeting ASTM C920 evaluation.
- D. Recommended Fasteners for Wood, Insulated Sheathing Board, Exterior Gypsum: 1. Plastic cap nails.
- 2. Plastic cap staples E. Recommended Fasteners for Steel Frame Construction:
- 1. Rust-resistant screws with washers. F. Recommended Fastening to Masonry:
- 1. Sealant: Polyurethane-based, meeting ASTM C920 evaluation. 2. Mechanical: Masonry fastener with washer.

PART 3. EXECUTION

3.1 Installation

- A. TYPAR MetroWrap. Install in accordance with manufacturer's instruction over exterior sheathing or open studs. Seal joints and penetrations through weatherresistive barrier with specified tape and fasteners prior to installation of finish material. Air infiltration barrier shall be airtight and free from holes, tears, and punctures. All window and door penetrations are to be flashed and sealed per ASTM 2112, AAMA guidelines and manufacturer instructions. Cover with exterior cladding within six months of installation. B. TYPAR* Butyl Flashing.
- 1. Follow the TYPAR* Flashing installation procedures. C. TYPAR Construction Tape.

1. Follow the TYPAR Construction Tape installation procedures.

3.2 Examination

- 1. Verify substrate and surface conditions are in accordance with the flashing manufacturer's recommendation. B TYPAR Butyl Flashing
- Verify substrate and surface conditions are in accordance with the flashing manufacturer's recommendation.

1. Verify substrate and surface conditions are in accordance with the flashing manufacturer's recommendation.

- 1. Protect installed self-adhesive and flashing tapes from damage during construction.
 - 1. Protect installed self-adhesive and flashing tapes from damage during construction.

FIRE RETARDANT-TREATED PLYWOOD

HOOVER TREATED WOOD PRODUCTS, INC TECHNICAL NOTE

FOR ADDITIONAL INFORMATION: www.frtw.com or 1-800-TEC-WOOD (832-9663)

SPECIFICATIONS

EXTERIOR-FIRE-X® Exterior Fire-Retardant-Treated Wood

PART 1 - General Product Information

- A. Lumber and plywood designated EXTERIOR FIRE-X® has a flame spread index of 25 or less (Class A) when tested in accordance with ASTM E84, "Standard Test Method for Surface Burning Characteristics of Building Materials."
- B. **EXTERIOR FIRE-X®** fire-retardant-treated wood shows no evidence of significant progressive combustion when the test is extended for an additional 20-minute period. The flame front does not progress more than 101/2 feet beyond the centerline of the burners at any time during the test. Surface burning characteristics for each species and product are listed by Underwriters Laboratories (UL).
- C. EXTERIOR FIRE-X® shows no increase in the listed classification when evaluated for flame spread after testing in accordance with ASTM D2898 "Standard Test Methods for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing."
- D. EXTERIOR FIRE-X® lumber and plywood is manufactured under the independent third-party inspection of Underwriters Laboratories (UL) Follow-Up Service and each piece shall bear the UL classified mark indicating the extended 30 minute ASTM E84 test and no increase in classification after ASTM D2898.
- E. EXTERIOR FIRE-X® shall be kiln-dried after treatment (KDAT). The kiln drying process is monitored by Timber Products Inspection, Inc. (TP). The TP mark appears on the label. F. EXTERIOR FIRE-X® meets the performance requirements of AWPA U1, Specification H for Use Category UCFB
- (fire protection, exterior, above ground) and AWPA C20/C27 (Exterior Type). G. EXTERIOR FIRE-X® is available with a blue colorant or branding as required for identification by the nuclear
- power industry and Department of Defense (DOD) Mil Spec requirements, Type II (Exterior Type).
- H. EXTERIOR FIRE-X® is listed on the Qualified Products List (QPL) for Mil Spec Mil-L 19140-E.

PART 2 - Fire-Retardant Treatment

- A. EXTERIOR FIRE-X® is manufactured by Hoover Treated Wood Products, Inc.
- B. EXTERIOR FIRE-X® is a proprietary product of Hoover Treated Wood Products Inc. No substitutions permitted. C. EXTERIOR FIRE-X® shall be kiln-dried to a maximum moisture content of 19% for lumber and 15% for plywood.
- D. EXTERIOR FIRE-X® lumber and plywood shall use design value adjustments and span ratings as published by the Hoover Treated Wood Products Inc.
- E. EXTERIOR FIRE-X® fire-retardant treatment is free of halogens, sulfates, chlorides, ammonium phosphate, and contains no added urea formaldehyde.
- F. Lumber and plywood of the appropriate size, grade and species, and bond durability shall be specified by the design criteria for the intended application.
- G. Plywood shall have a minimum bond durability of Exposure 1 in accordance with US Product Standard PS 1. Construction and Industrial Plywood.
- H. Grade marked structural lumber treated with EXTERIOR FIRE-X® shall be in accordance with PS 20.

PART 3 - Execution

reliance upon the information contained herein.

- A. EXTERIOR FIRE-X® is a leach resistant fire-retardant treatment and may be installed with direct exposure to
- precipitation; however, it cannot be substituted for preservative treated wood.
- B. EXTERIOR FIRE-X® fire-retardant-treated lumber and plywood used in structural applications shall be applied according to the lumber and plywood strength tables available from Hoover Treated Wood Products. C. Field cutting is allowed without end treating. Do not rip or mill fire-retardant-treated lumber. Cross cuts, joining cuts,

and drilling holes are permitted in lumber. Fire-retardant-treated plywood may be cut in any direction. contained herein is true and accurate to the best of our knowledge, but is provided without warranty or guarantee. Since the conditions of use are beyond our

control, Hoover Treated Wood Products, Inc. ("Hoover") disclaims all liability and assumes no legal responsibility for damages resulting from the use of or

HOOVER TREATED WOOD PRODUCTS, INC TECHNICAL NOTE

LUMBER & PLYWOOD ENGINEERING DATA EXTERIOR-FIRE-X® Exterior Fire-Retardant-Treated Wood

FOR ADDITIONAL INFORMATION: www.frtw.com or 1-800-TEC-WOOD (832-9663)

Exterior Fire-X® pressure treated fire retardant lumber is limited to uses where the lumber temperature does not exceed 150° F in:

- Walls
- C. Roof/ceiling assemblies where ventilation is evenly distributed providing a uniform airflow over all interior roof surfaces effectively removing built up heat and moisture from the roof system.

DESIGN VALUE ADJUSTMENTS FOR EXTERIOR FIRE-X® LUMBER Exterior Fire-X® treated lumber shall bear the mark of an ALSC approved lumber grading or inspection agency. The adjustments below apply to the design values for Southern Pine as listed in the National Design Specification (a) (a) ANSI / AWC National Design Specification (NDS) and NDS Supplement: Design Values for Wood Construction. American Wood Council www.awc.org

| Property | Adjustment Factor | |
|------------------------------------|-------------------|--|
| Extreme fiber in bending | 0.85 | |
| Tension | 0.80 | |
| Horizontal shear | 0.90 | |
| Compression perpendicular to grain | 0.90 | |
| Compression parallel to grain | 0.90 | |
| Modulus of elasticity | 0.90 | |
| Fastener/connector design loads | 0.90 | |

SPAN RATINGS FOR EXTERIOR FIRE-X® PLYWOOD

The following plywood roof sheathing and subfloor spans apply to span-rated plywood and/or plywood bearing the trademark of an approved inspection agency, treated with Exterior Fire-X®. Roof system ventilation shall be evenly distributed providing a uniform airflow over all interior roof surfaces, and sufficient to effectively remove moisture.

| Panel Thickness Category | Untreated Span Index | Exterior Fire-X® Maximum Span (inches) | |
|-----------------------------|----------------------|--|---------------------|
| | | Roof Sheathing $(1, 2, 5)$ | Wall & Subfloor (3) |
| 15/32, 1/2 | 32/16 | 24 | 16 |
| 19/32, 5/8 | 40/20 | 32 | 20 |
| 23/32, 3/4 | 48/24 | 40 | 24 |
| 7/8 (4) | | 48 | 24 |

- (1) Clips, blocking or other edge supports must be used with roof sheathing. (2) Maximum roof load: 10 psf dead load plus 40 psf live load.
- (3) Maximum floor load: 10 psf dead load plus 100 psf live load.

EXTENDED EXPOSURE TO ELEVATED TEMPERATURES AND MOISTURE.

(4) Limited to 7/8" CDX plywood made with group 1 species. (5) EXTERIOR FIRE-X® treated plywood shall not be used in roof designs employing a radiant shield that is located underneath the bottom surface of the sheathing.

NOTE: THESE SPAN RATINGS ARE BASED ON TEST RESULTS FOR EXTERIOR FIRE-X TREATED PLYWOOD AFTER

Where Exterior Fire-X[®] treated plywood is used for diaphragm or shear wall design there is a 10% reduction.

DISCLAIMER OF LIABILITY FOR RELIANCE ON INFORMATION PROVIDED BY HOOVER TREATED WOOD PRODUCTS. INC.: The information

AGENCY APPROVAL

HARTMANNARCHITECTURESTUDIO.COM

430 S. CARRILLO RD.

OJAI, CALIFORNIA 93023

(805) 530-5559

hartmannarchitecturestudio.com CONSULTANTS:

STATUS:

FOR CONSTRUCTION

SEALS:

FT. HUACHUCA NEW **GROUND TRANSPORT EQUIPMENT BUILDING**

OWNFR:

US CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017

CONTRACTOR:

AMG & ASSOCIATES 26535 SUMMIT CIRCLE SANTA CLARITA, CALIFORNIA 91350 (661) 251 - 7401 amgassociatesinc.com

PROJECT ADDRESS:

CORNER OF ARIZONA ST. & HUNT ST. FORT HUACHUCA, ARIZONA

ISSUE: DATE DESCRIPTION 08/23/2022 | ASI #01

PROJECT INFORMATION: PROJECT NUMBER: PROJECT PHASE:

DRAWN BY:

SHEET TITLE:

REVIEWED BY: THE ORIGINAL SIZE OF THIS SHEET IS 36"x24". IF THE CURRENT SIZE IS OTHER THAN 36"x24", THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDING! Y.

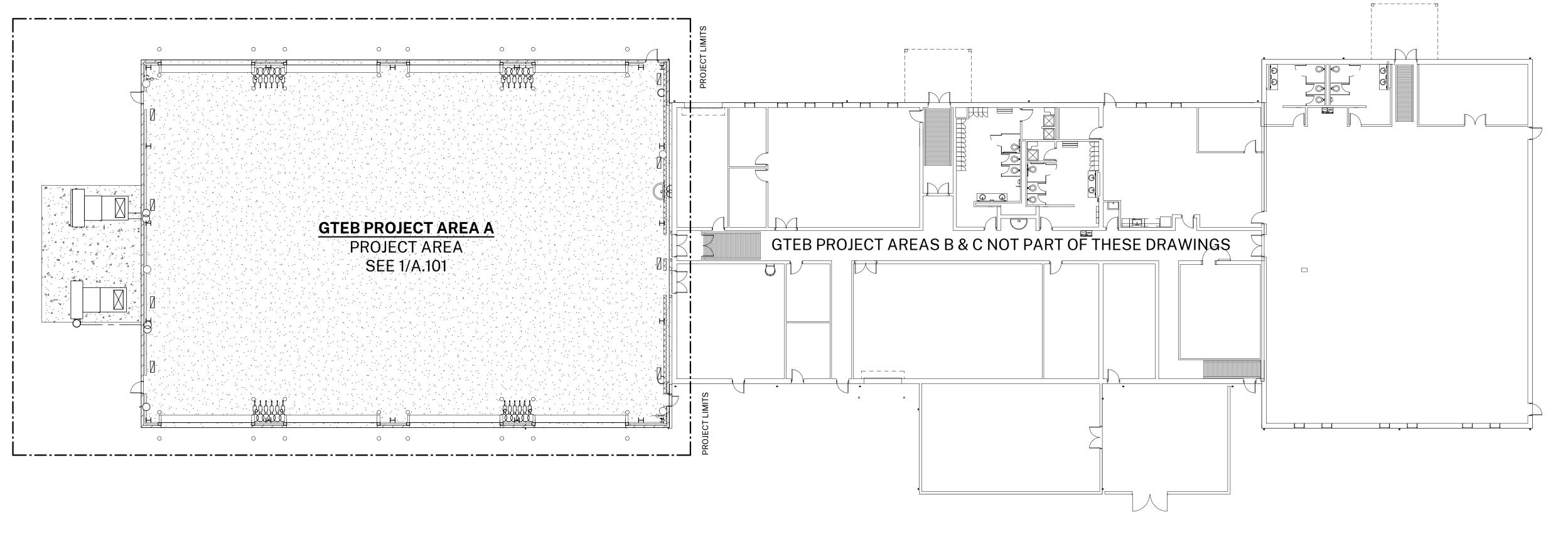
SPECIFICATIONS

2022.003

MEH

SHEET NUMBER:

SCALE: 1-1/2" = 1'-0"



1) FLOOR PLAN - OVERALL 1/16" = 1'-0"

PLAN NORTH FT. HUACHUCA NEW **SYMBOL LEGEND GROUND TRANSPORT EQUIPMENT BUILDING** DETAIL REFERENCE (E) WALL, REMOVE MODIFIER US CORPS OF ENGINEERS DWG. NO LOS ANGELES DISTRICT SHEET NO 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017 (E) FRAMED WALL, TO REMAIN DETAIL REFERENCE CONTRACTOR: (E) MASONRY WALL, MODIFIER AMG & ASSOCIATES TO REMAIN DWG. NO 26535 SUMMIT CIRCLE SANTA CLARITA, CALIFORNIA 91350 SHEET NO (661) 251 - 7401 amgassociatesinc.com (E) CONCRETE WALL, TO REMAIN MODIFIER A101 PROJECT ADDRESS: CORNER OF ARIZONA ST. & HUNT ST. SHEET NO FORT HUACHUCA, ARIZONA (N) FRAMED WALL EXT BLDG REFER TO SCHEDULE ELEVATION(S) <# | A-101 ↓# > SHEET NO (N) MASONRY WALL MARK DATE DESCRIPTION REFER TO SCHEDULE INT BLDG ELEVATION(S) DWG. NO ⟨# | A-101-# SHEET NO (N) CONCRETE WALL REFER TO SCHEDULE DOOR TAG PROJECT INFORMATION: PROJECT NUMBER: 2022.003 REFER TO USACE A-620 (N) FRAMED WALL -WINDOW TAG 1 HR FIRE BARRIER DRAWN BY: REFER TO USACE A-621 EQUIPMENT TAG SHEET TITLE: REFER TO SCHEDULE (E) DOOR, REMOVE WALLTAG **OVERALL FLOOR PLAN** REFER TO SCHEDULE KEYNOTE W/ (E) DOOR, TO ARROW REMAIN KEYNOTE SHEET NUMBER: W/ AREA INDICATOR **A.100** (N) DOOR 101 DATE: 07/07/22

AGENCY APPROVAL:

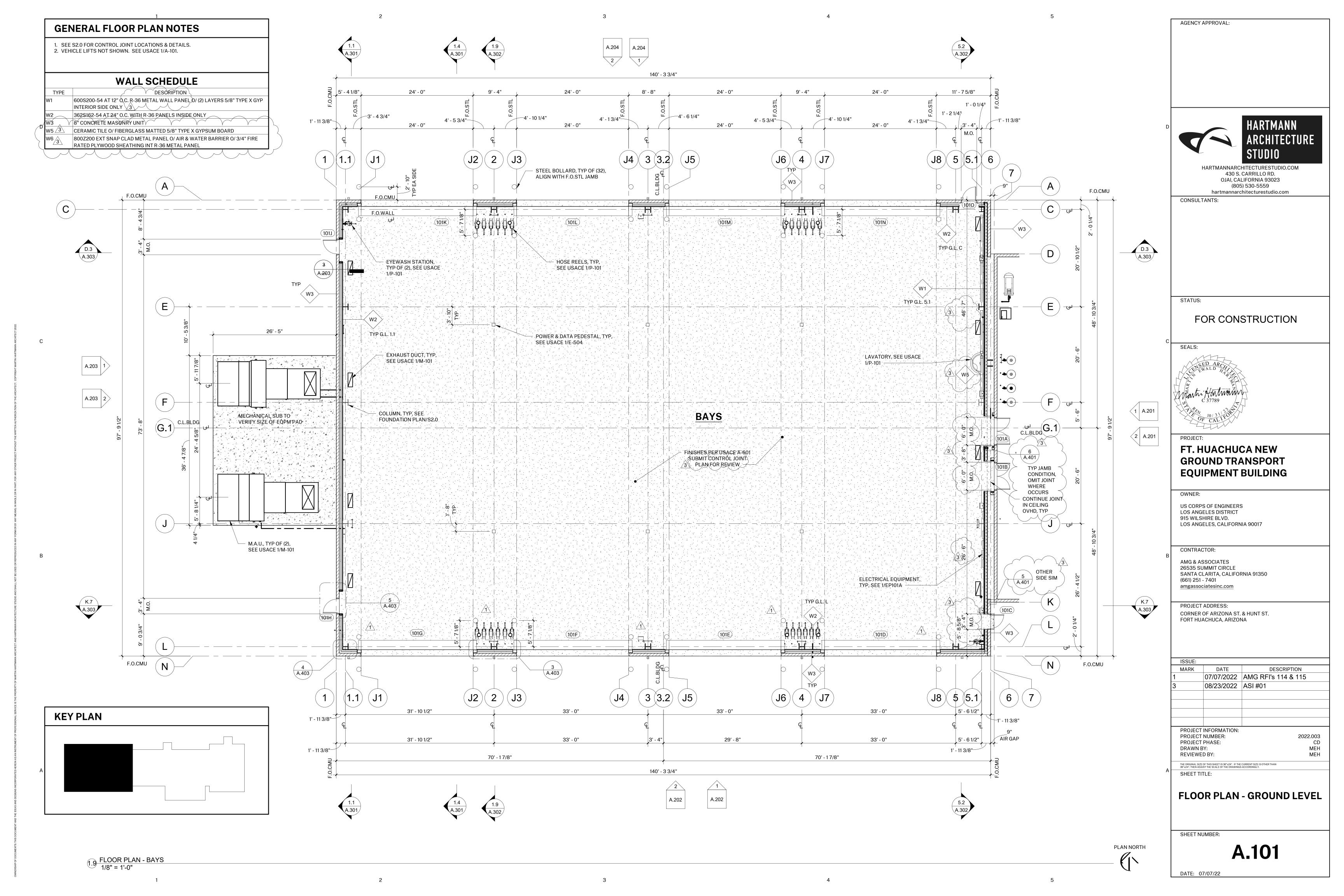
CONSULTANTS:

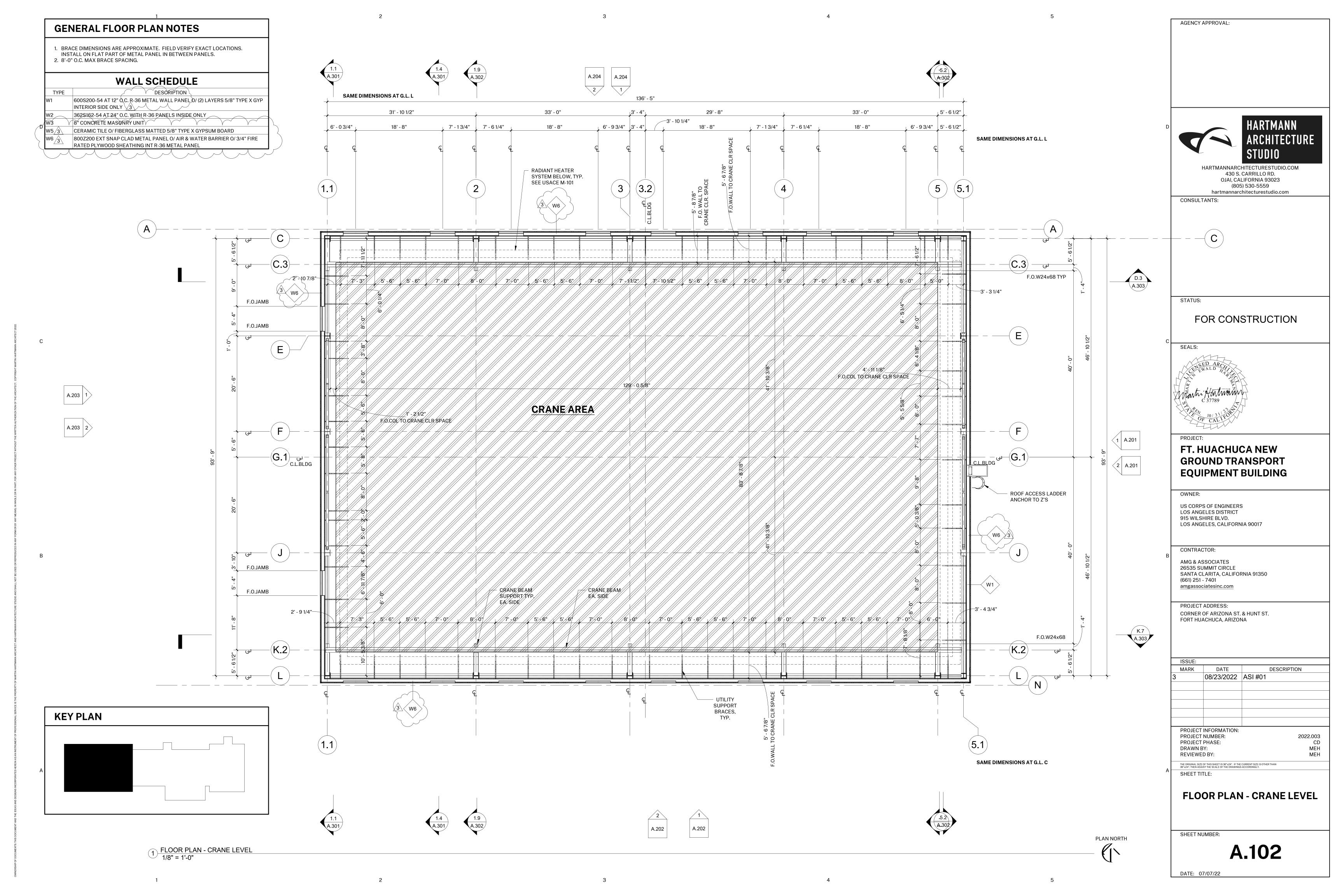
STATUS:

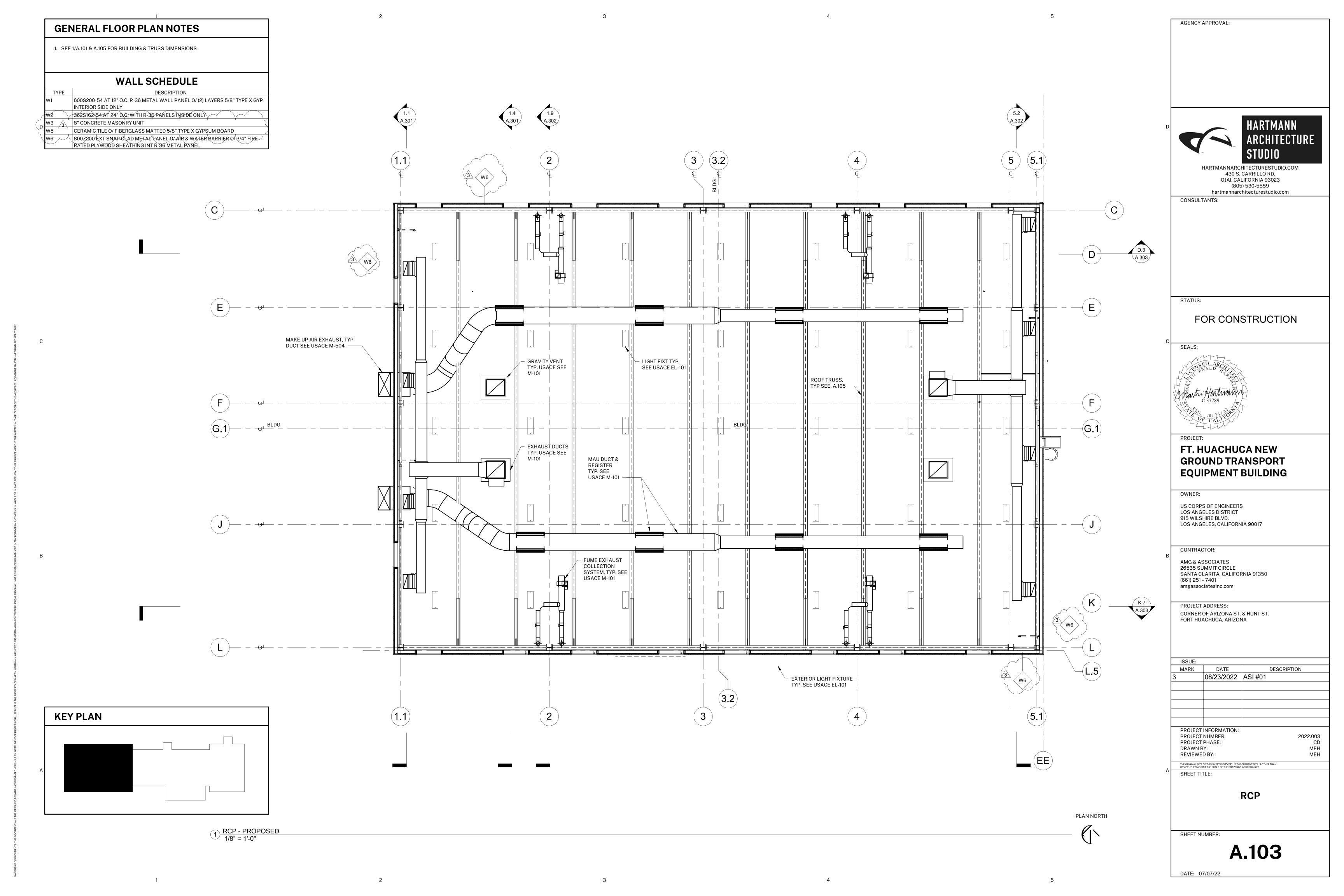
HARTMANNARCHITECTURESTUDIO.COM 430 S. CARRILLO RD. OJAI, CALIFORNIA 93023 (805) 530-5559

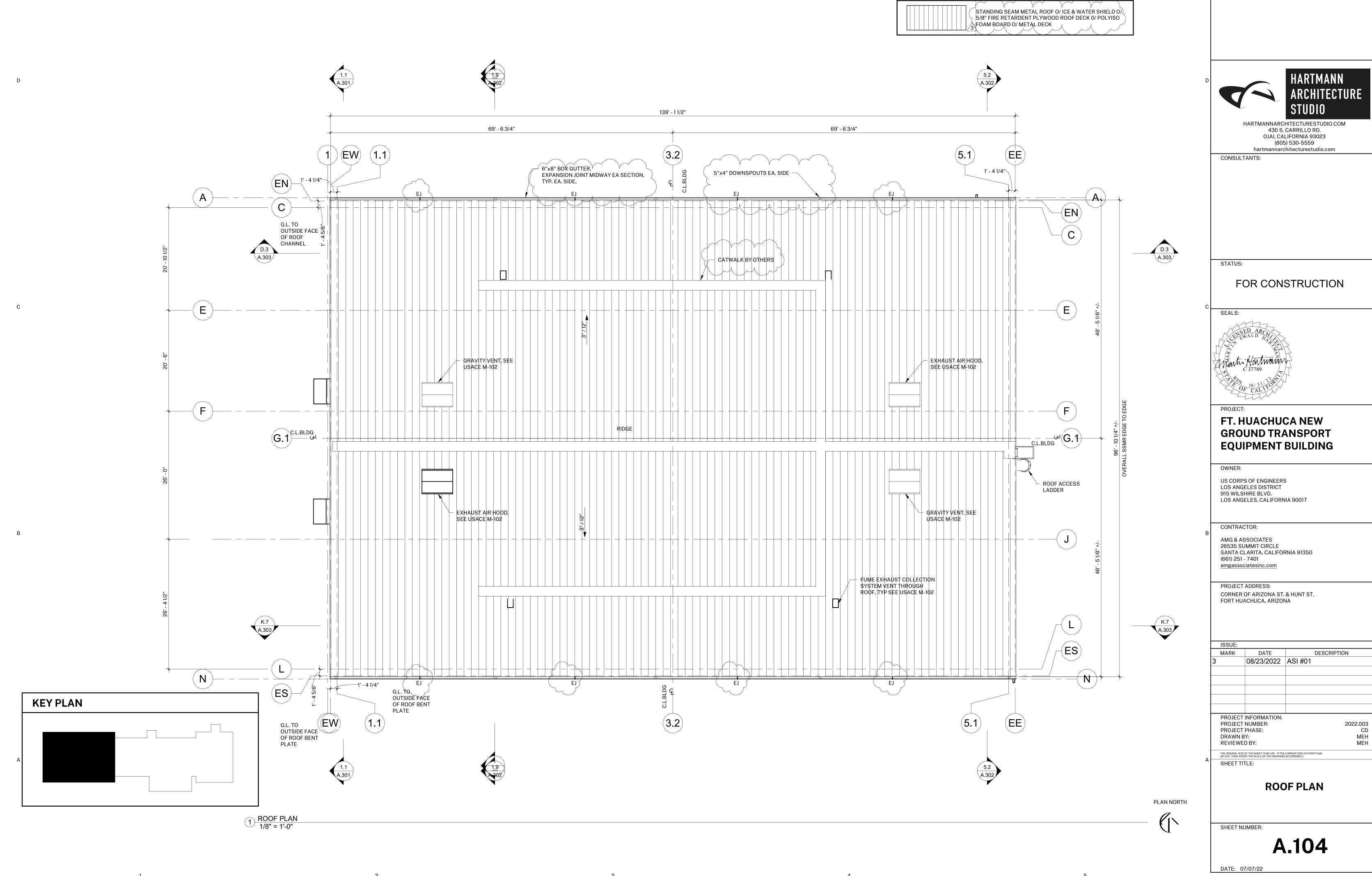
hartmannarchitecturestudio.com

FOR CONSTRUCTION



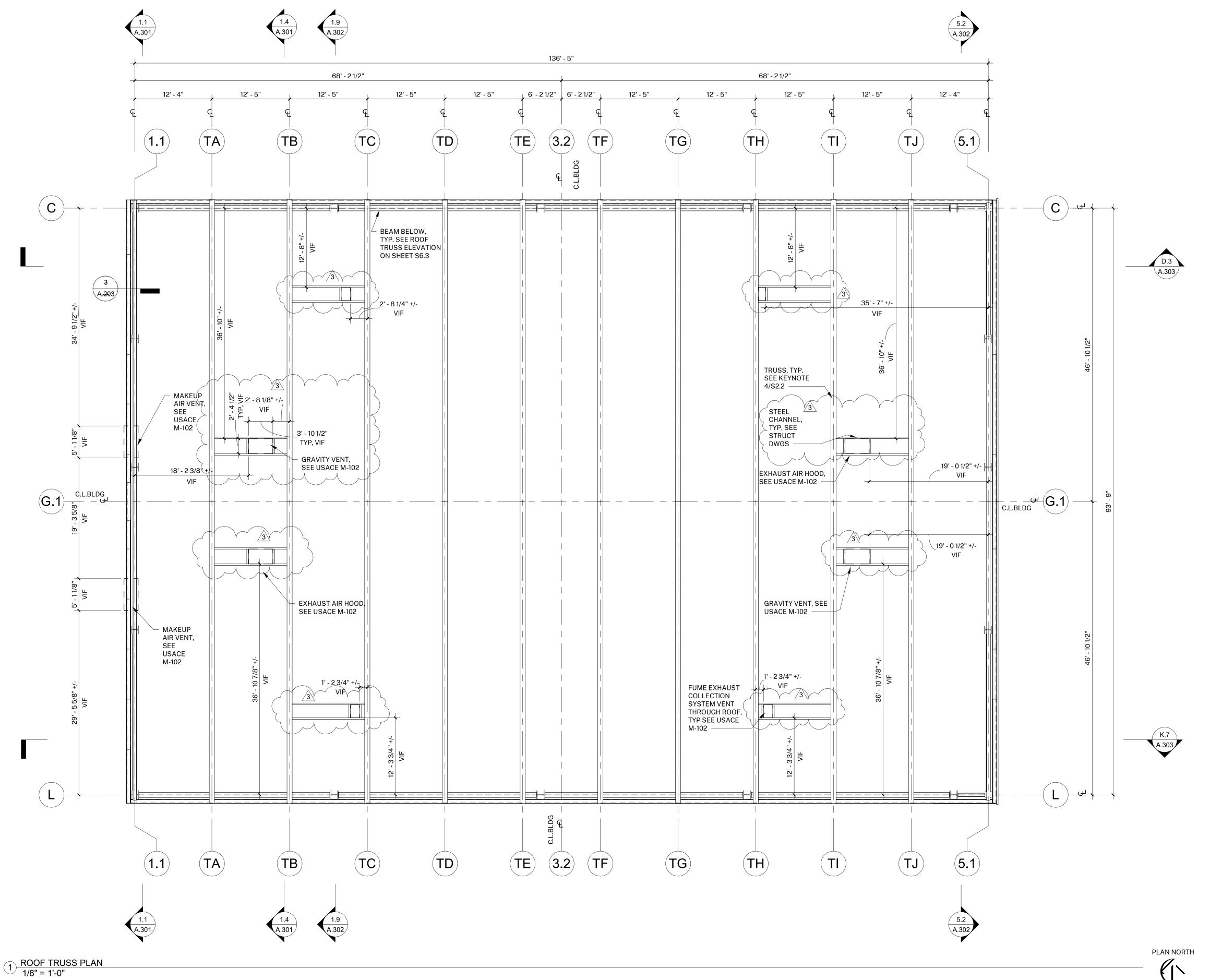




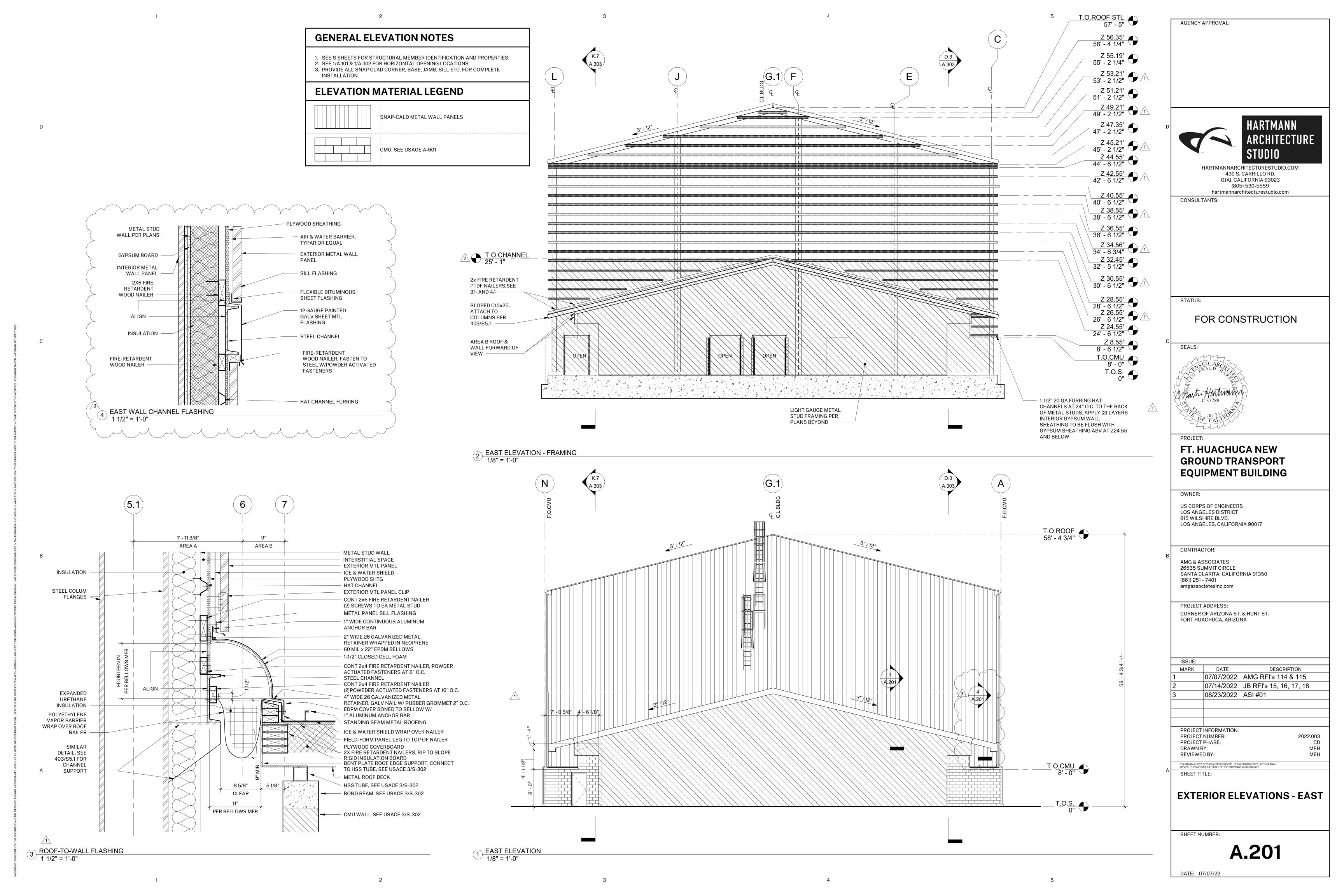


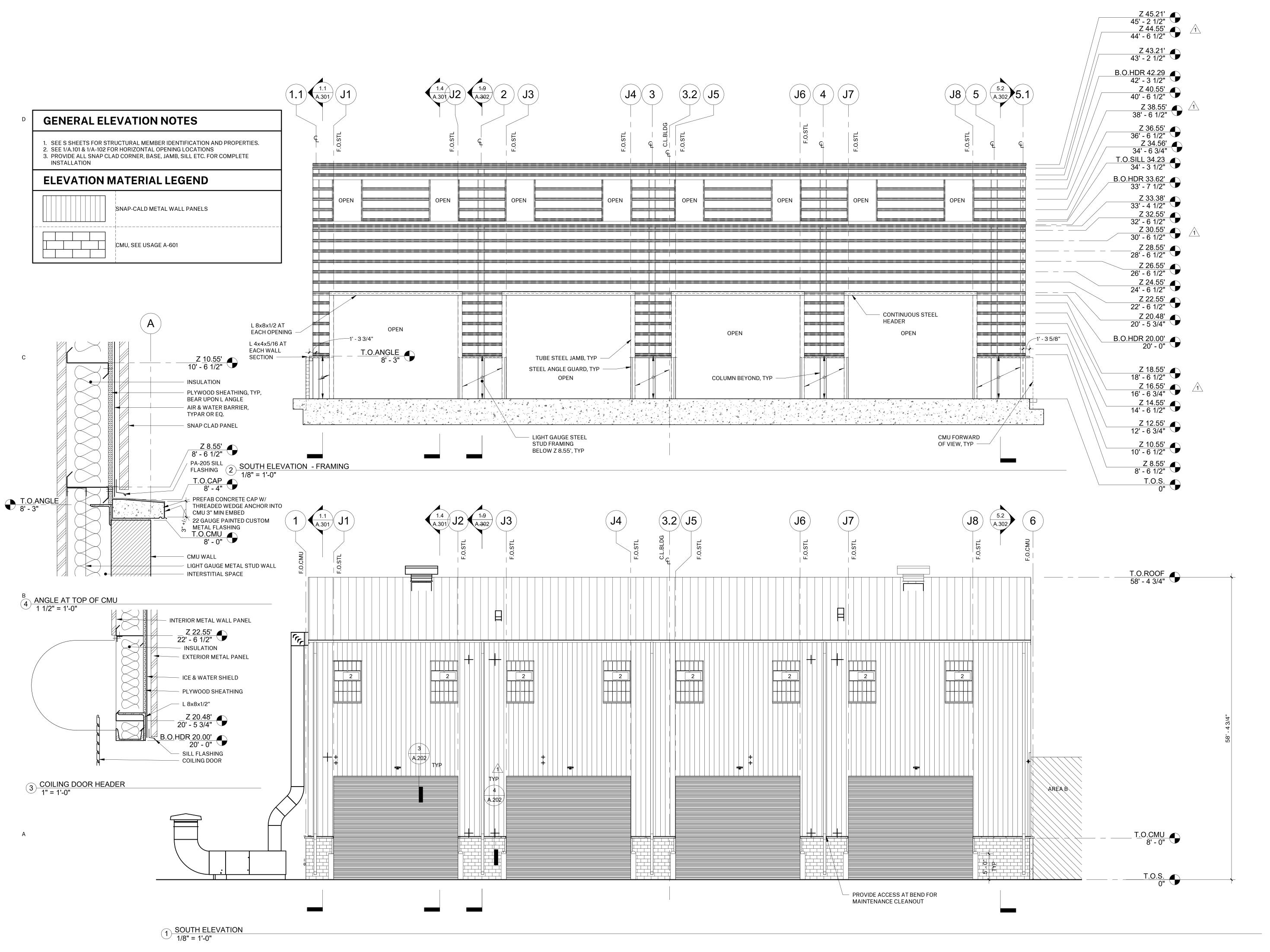
AGENCY APPROVAL:

ROOF MATERIAL LEGEND

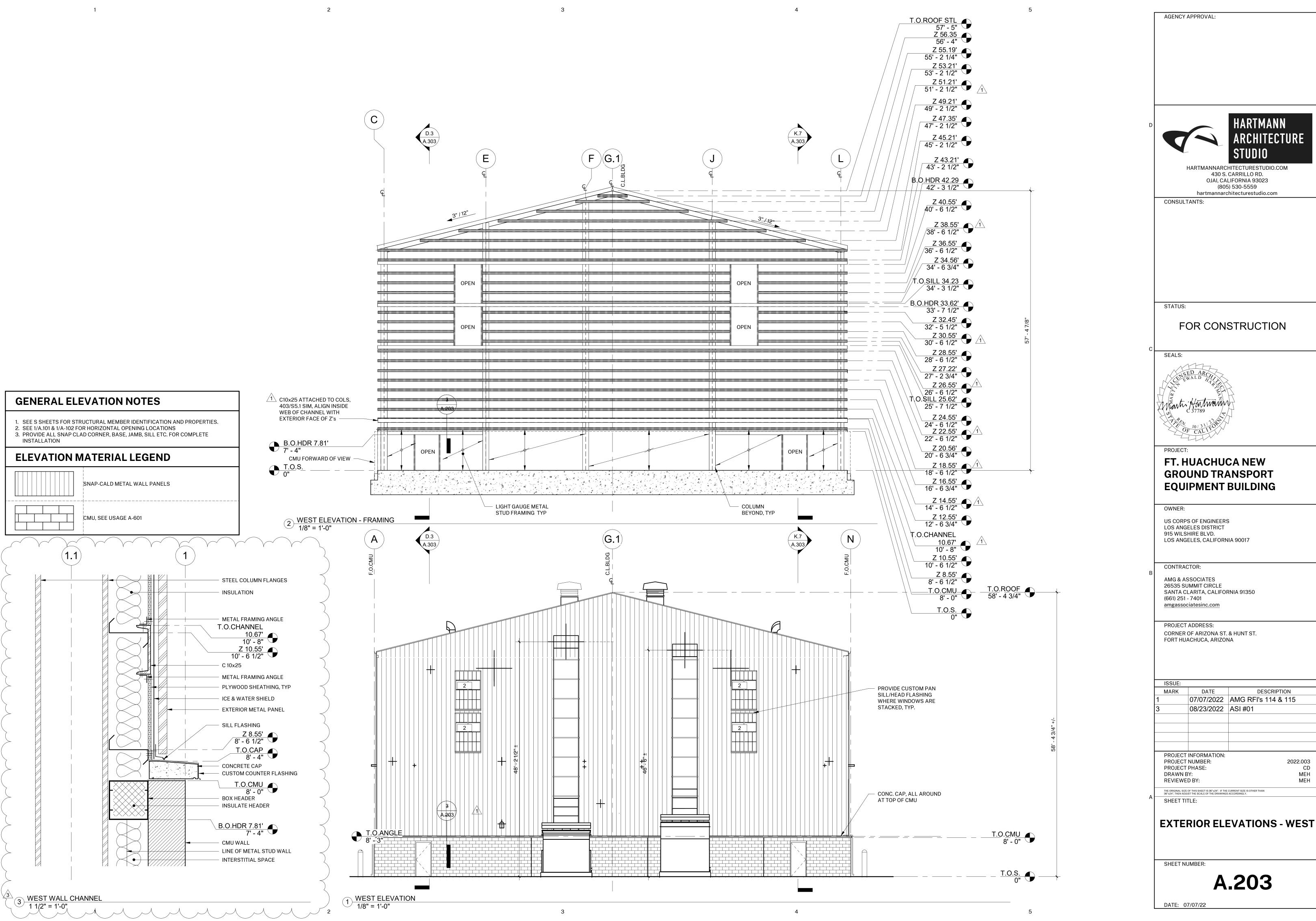


AGENCY APPROVAL: HARTMANNARCHITECTURESTUDIO.COM 430 S. CARRILLO RD. OJAI, CALIFORNIA 93023 (805) 530-5559 hartmannarchitecturestudio.com CONSULTANTS: STATUS: FOR CONSTRUCTION FT. HUACHUCA NEW **GROUND TRANSPORT EQUIPMENT BUILDING** OWNER: US CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017 CONTRACTOR: AMG & ASSOCIATES 26535 SUMMIT CIRCLE SANTA CLARITA, CALIFORNIA 91350 (661) 251 - 7401 amgassociatesinc.com PROJECT ADDRESS: CORNER OF ARIZONA ST. & HUNT ST. FORT HUACHUCA, ARIZONA ISSUE: DATE DESCRIPTION 08/23/2022 ASI #01 PROJECT INFORMATION: PROJECT NUMBER: 2022.003 PROJECT PHASE: DRAWN BY: REVIEWED BY: THE ORIGINAL SIZE OF THIS SHEET IS 36"x24". IF THE CURRENT SIZE IS OTHER THAN 36"x24", THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDINGLY. SHEET TITLE: **ROOF TRUSS PLAN** STEEL SHOP DRAWING COORDINATION DRAWING SHEET NUMBER: A.105 DATE: 07/07/22





AGENCY APPROVAL: HARTMANN 430 S. CARRILLO RD. OJAI, CALIFORNIA 93023 (805) 530-5559 hartmannarchitecturestudio.com CONSULTANTS: STATUS: FOR CONSTRUCTION FT. HUACHUCA NEW **GROUND TRANSPORT EQUIPMENT BUILDING** OWNER: US CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017 CONTRACTOR: AMG & ASSOCIATES 26535 SUMMIT CIRCLE SANTA CLARITA, CALIFORNIA 91350 (661) 251 - 7401 amgassociatesinc.com PROJECT ADDRESS: CORNER OF ARIZONA ST. & HUNT ST. FORT HUACHUCA, ARIZONA DATE DESCRIPTION 07/07/2022 | AMG RFI's 114 & 115 07/14/2022 | JB RFI's 15, 16, 17, 18 08/23/2022 ASI #01 PROJECT INFORMATION: PROJECT NUMBER: 2022.003 PROJECT PHASE: DRAWN BY: REVIEWED BY: THE ORIGINAL SIZE OF THIS SHEET IS 36"x24", IF THE CURRENT SIZE IS OTHER THAN 36"x24", THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDINGLY. SHEET TITLE: **EXTERIOR ELEVATIONS -**SOUTH SHEET NUMBER: **A.202**





HARTMANNARCHITECTURESTUDIO.COM 430 S. CARRILLO RD. OJAI, CALIFORNIA 93023 (805) 530-5559

FOR CONSTRUCTION



FT. HUACHUCA NEW **GROUND TRANSPORT EQUIPMENT BUILDING**

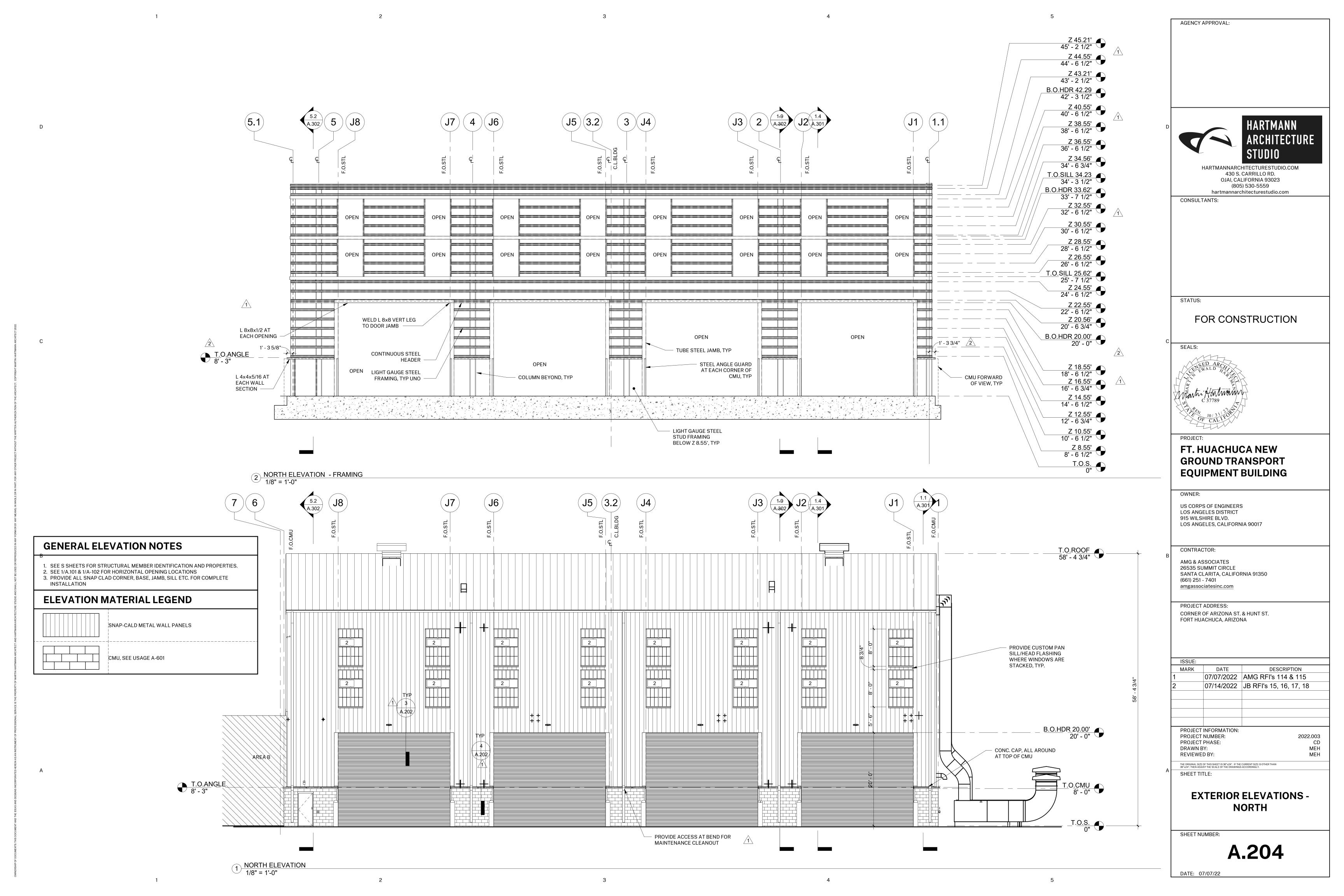
LOS ANGELES, CALIFORNIA 90017

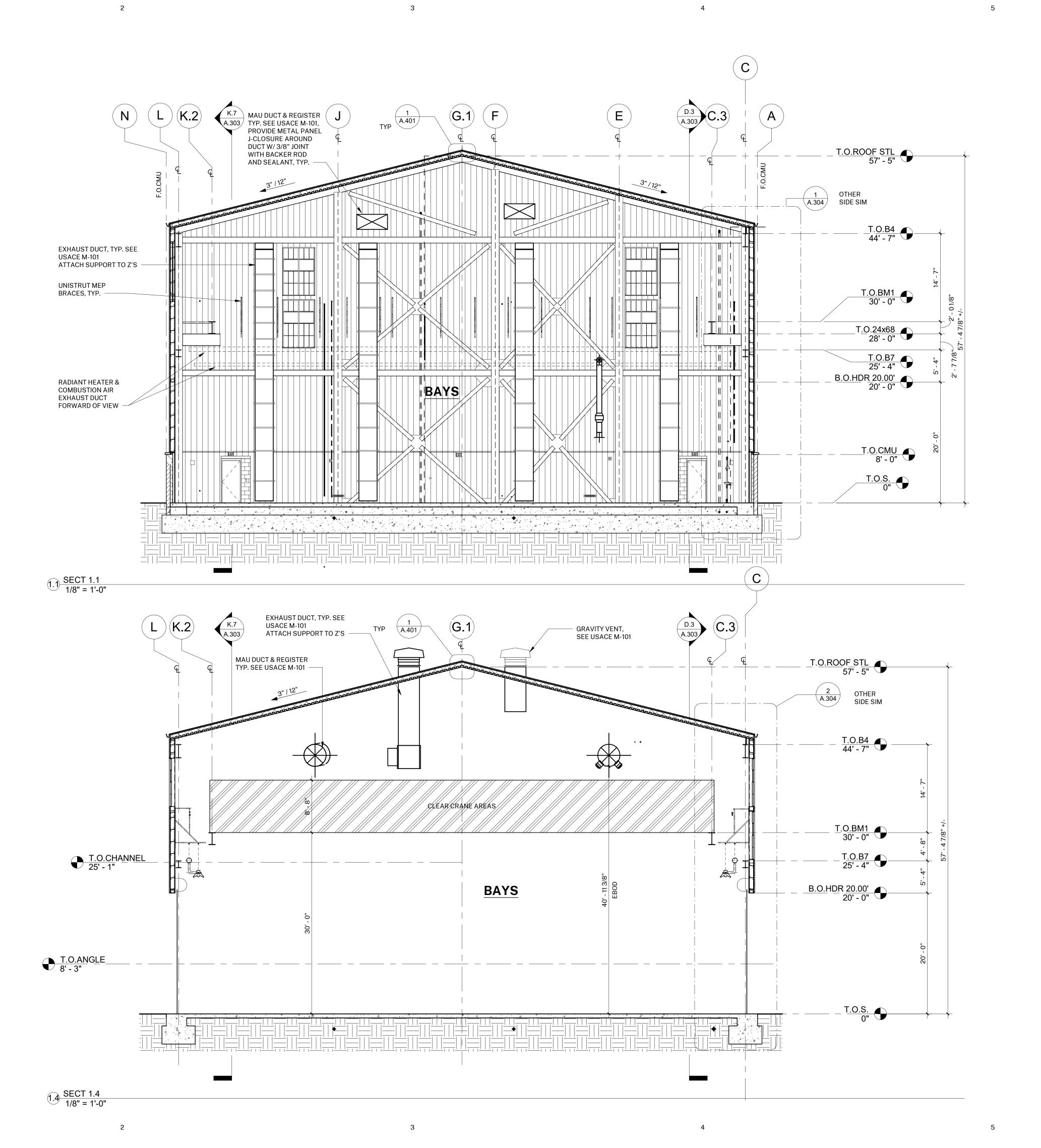
SANTA CLARITA, CALIFORNIA 91350

DESCRIPTION 07/07/2022 AMG RFI's 114 & 115

2022.003

A.203





AGENCY APPROVAL:



HARTMANNARCHITECTURESTUDIO.COM 430 S. CARRILLO RD. OJAI, CALIFORNIA 93023 (805) 530-5559

hartmannarchitecturestudio.com
CONSULTANTS:

STATUS:

FOR CONSTRUCTION

SEALS:



PROJECT:

FT. HUACHUCA NEW GROUND TRANSPORT EQUIPMENT BUILDING

OWNER:

US CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017

CONTRACTOR:

AMG & ASSOCIATES
26535 SUMMIT CIRCLE
SANTA CLARITA, CALIFORNIA 91350
(661) 251 - 7401
amgassociatesinc.com

PROJECT ADDRESS:

CORNER OF ARIZONA ST. & HUNT ST. FORT HUACHUCA, ARIZONA

| ISSUE: | | |
|--------|------|-------------|
| MARK | DATE | DESCRIPTION |
| | | |
| | | |
| | | |
| | | |
| | | |

2022.003 CD MEH MEH

PROJECT INFORMATION: PROJECT NUMBER: PROJECT PHASE:

PROJECT NUMBER:
PROJECT PHASE:
DRAWN BY:
REVIEWED BY:

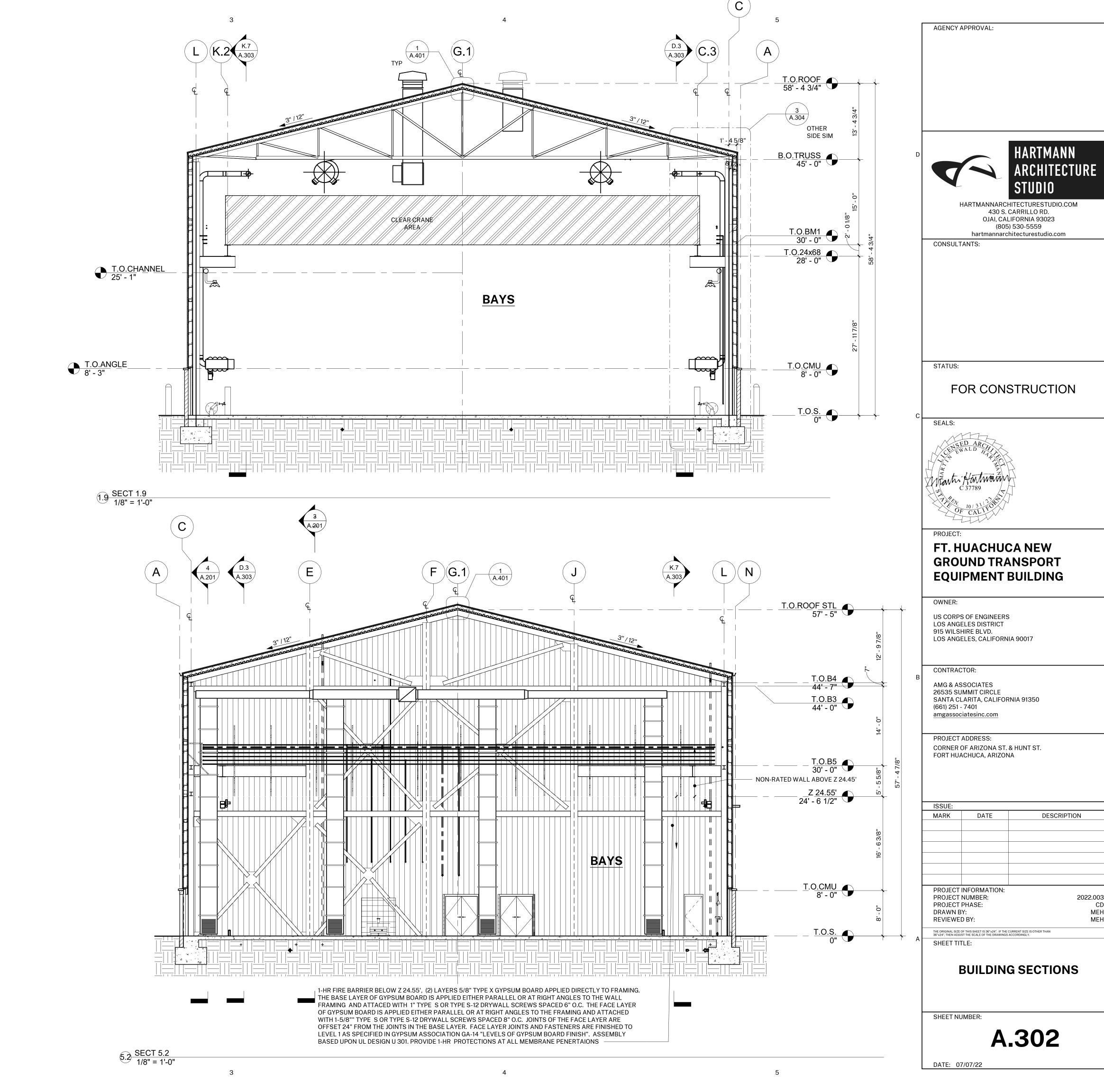
THE ORIGINAL SIZE OF THIS SHEET IS 36"x24". IF THE CURRENT SIZE IS OTHER THAN 36"x24". THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDINGLY.

A SHEET TITLE:

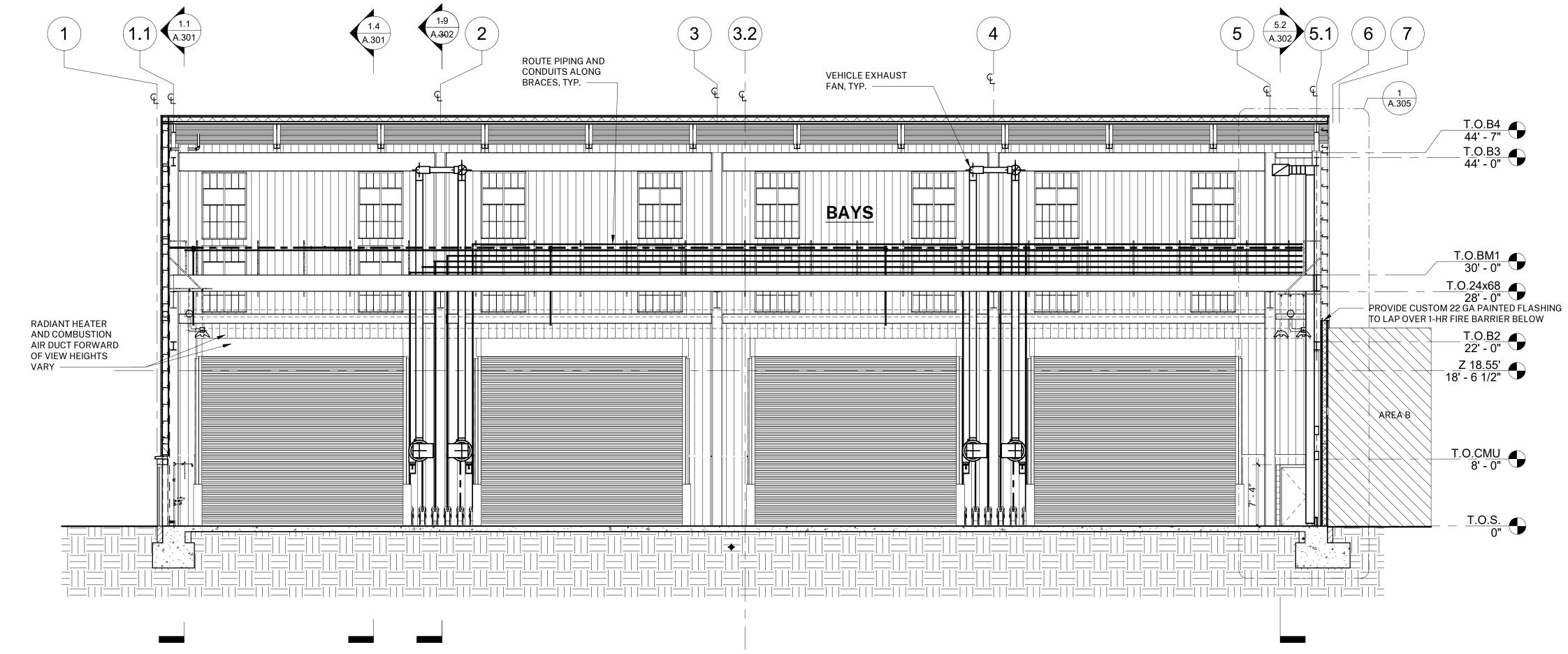
BUILDING SECTIONS

SHEET NUMBER:

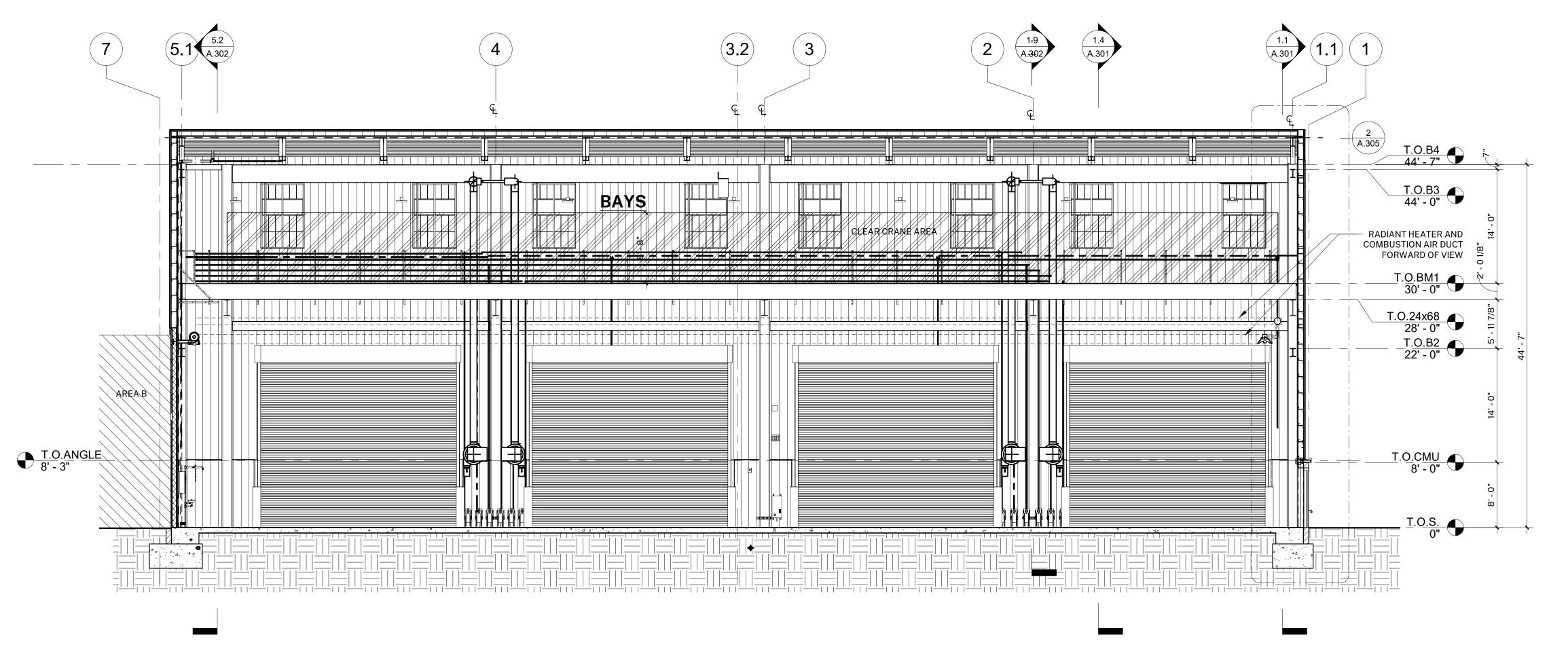
A.301

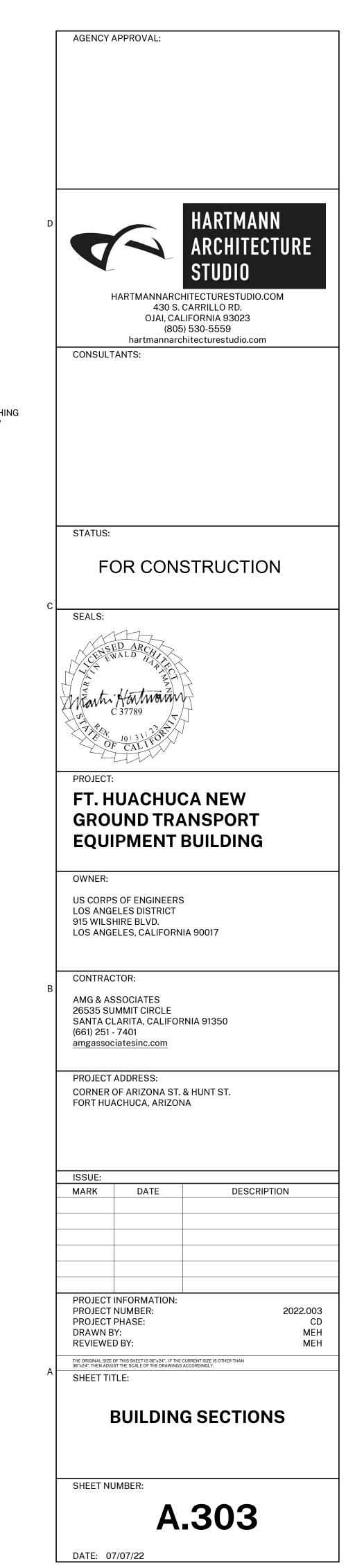


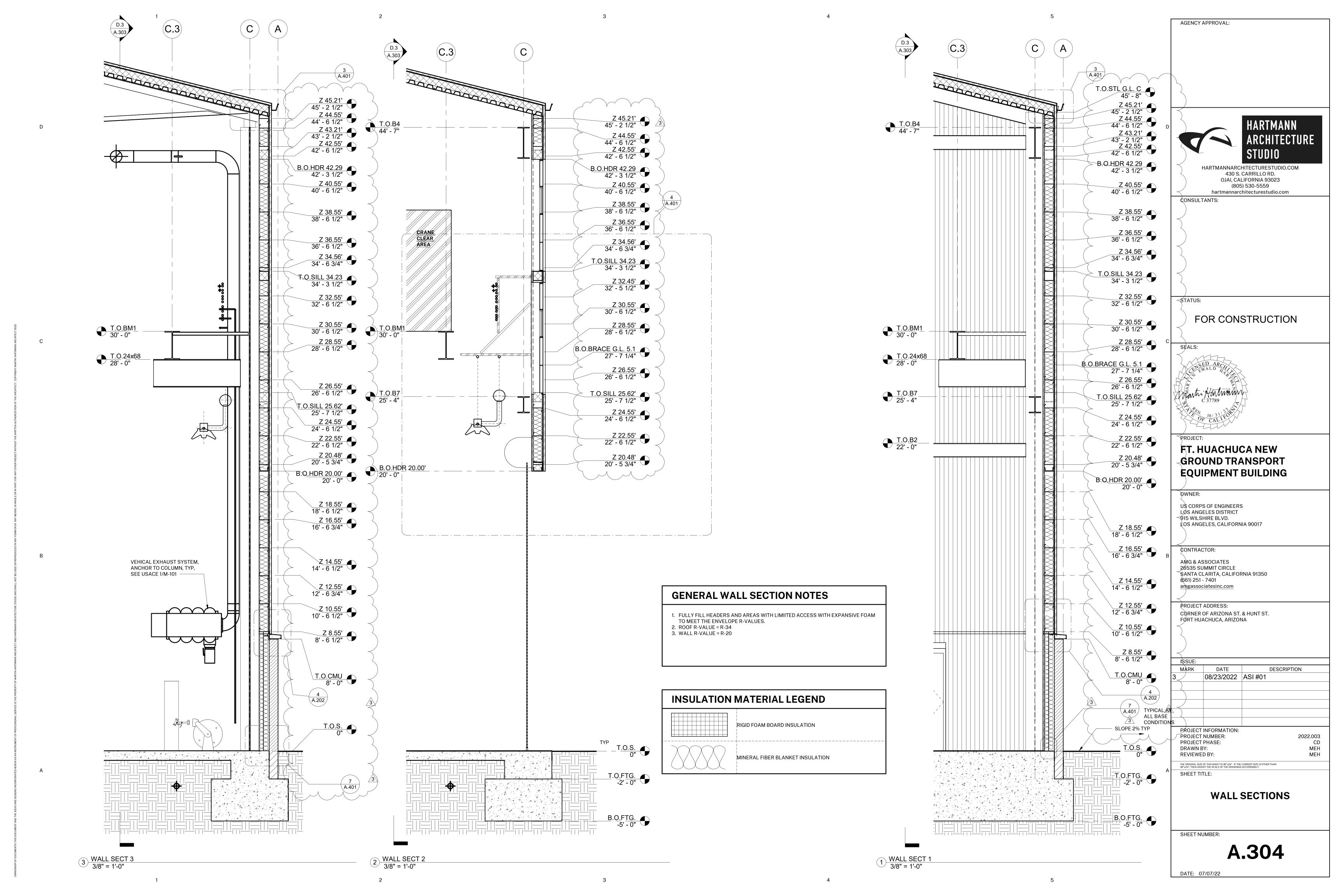
2022.003



D.3 SECT D.3 1/8" = 1'-0'



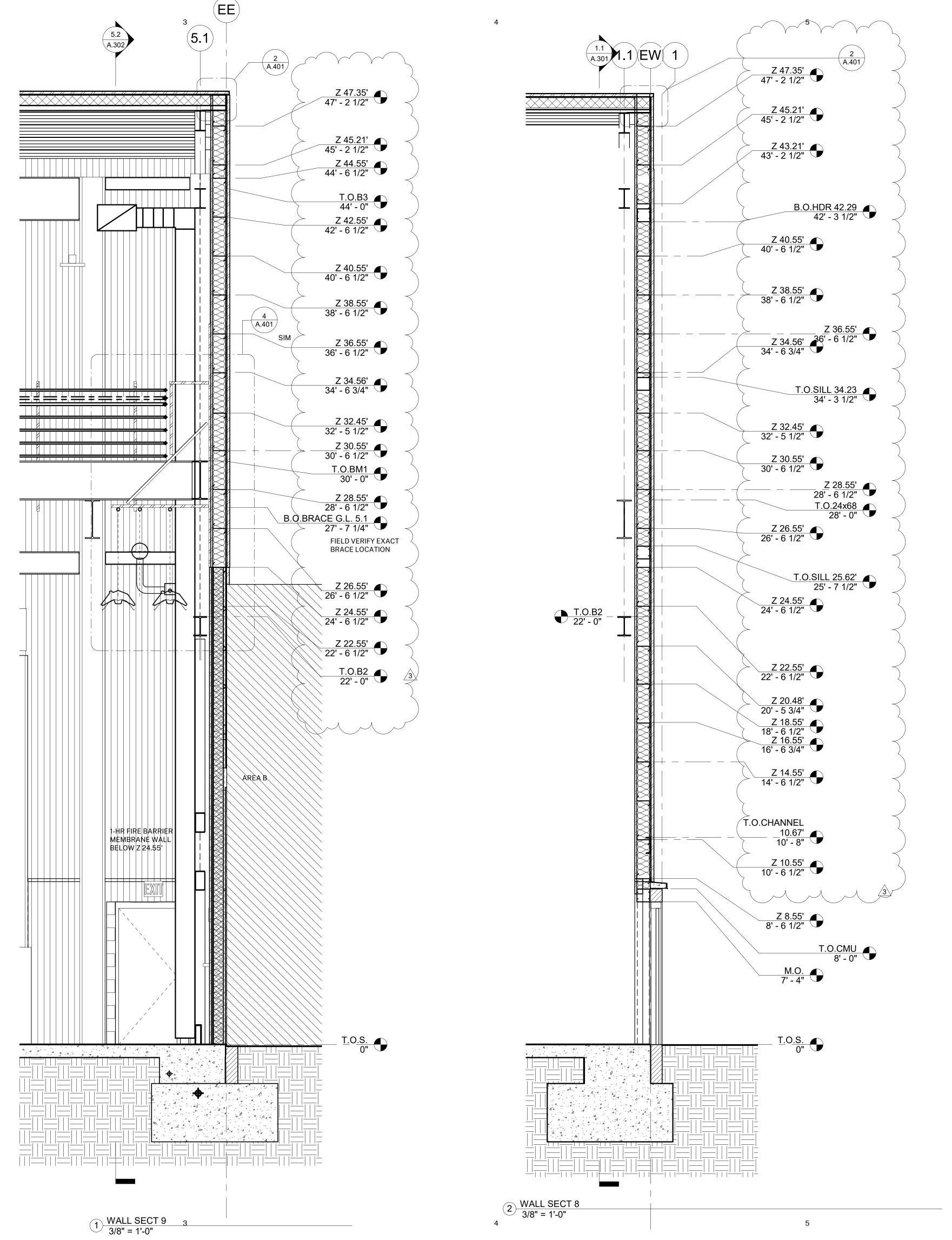




GENERAL WALL SECTION NOTES

- 1. FULLY FILL HEADERS AND AREAS WITH LIMITED ACCESS WITH EXPANSIVE FOAM TO MEET THE ENVELOPE R-VALUES.
- 2. ROOF R-VALUE = R-34 3. WALL R-VALUE = R-20

| INSULATION MATERIAL LEGEND | | |
|----------------------------|----------------------------------|--|
| | RIGID FOAM BOARD INSULATION | |
| | MINERAL FIBER BLANKET INSULATION | |



AGENCY APPROVAL: HARTMANN ARCHITECTURE STUDIO HARTMANNARCHITECTURESTUDIO.COM 430 S. CARRILLO RD. OJAI, CALIFORNIA 93023 (805) 530-5559 hartmannarchitecturestudio.com CONSULTANTS: STATUS: FOR CONSTRUCTION SEALS: PROJECT: FT. HUACHUCA NEW **GROUND TRANSPORT EQUIPMENT BUILDING** OWNER: US CORPS OF ENGINEERS LOS ANGELES DISTRICT 915 WILSHIRE BLVD. LOS ANGELES, CALIFORNIA 90017 CONTRACTOR: AMG & ASSOCIATES 26535 SUMMIT CIRCLE SANTA CLARITA, CALIFORNIA 91350 (661) 251 - 7401 amgassociatesinc.com

PROJECT ADDRESS:

CORNER OF ARIZONA ST. & HUNT ST. FORT HUACHUCA, ARIZONA

ISSUE:

DATE 07/07/2022 AMG RFI's 114 & 115 08/23/2022 ASI #01

2022.003

PROJECT INFORMATION: PROJECT NUMBER: PROJECT PHASE:

DRAWN BY: REVIEWED BY:

THE ORIGINAL SIZE OF THIS SHEET IS 36"x24". IF THE CURRENT SIZE IS OTHER THAN 36"x24", THEN ADJUST THE SCALE OF THE DRAWINGS ACCORDINGLY. SHEET TITLE:

SHEET NUMBER:

A.305

WALL SECTIONS

