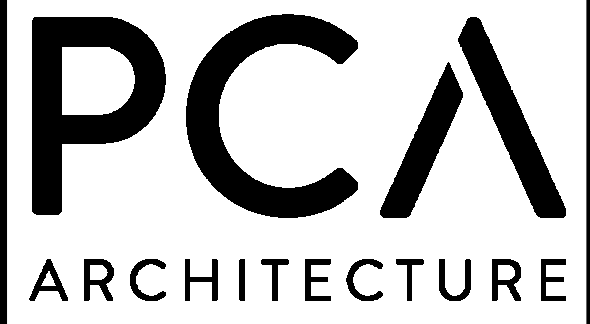
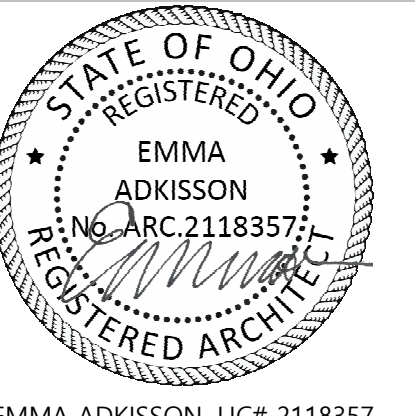


GEIGER HOUSE FOR VETERANS / KLEKAMP FAMILY RESIDENCES PSH

2631 GILBERT AVE.
Cincinnati, OH 45206



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NEWPORT, KY 41071
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EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

GEIGER HOUSE FOR VETERANS / KLEKAMP FAMILY RESIDENCES PSH
 2631 GILBERT AVE.
 Cincinnati, OH 45206

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E403	ELECTRICAL DETAILS
E404	ELECTRICAL DETAILS
E405	ELECTRICAL DETAILS
E406	ELECTRICAL DETAILS
E407	ELECTRICAL DETAILS
E408	ELECTRICAL DETAILS
E500	ELECTRICAL SPECIFICATIONS

OWNER:
TALBERT SERVICES
 2600 Victory Parkway, Cincinnati, OH, 45206
 Ph: 513.751.7747

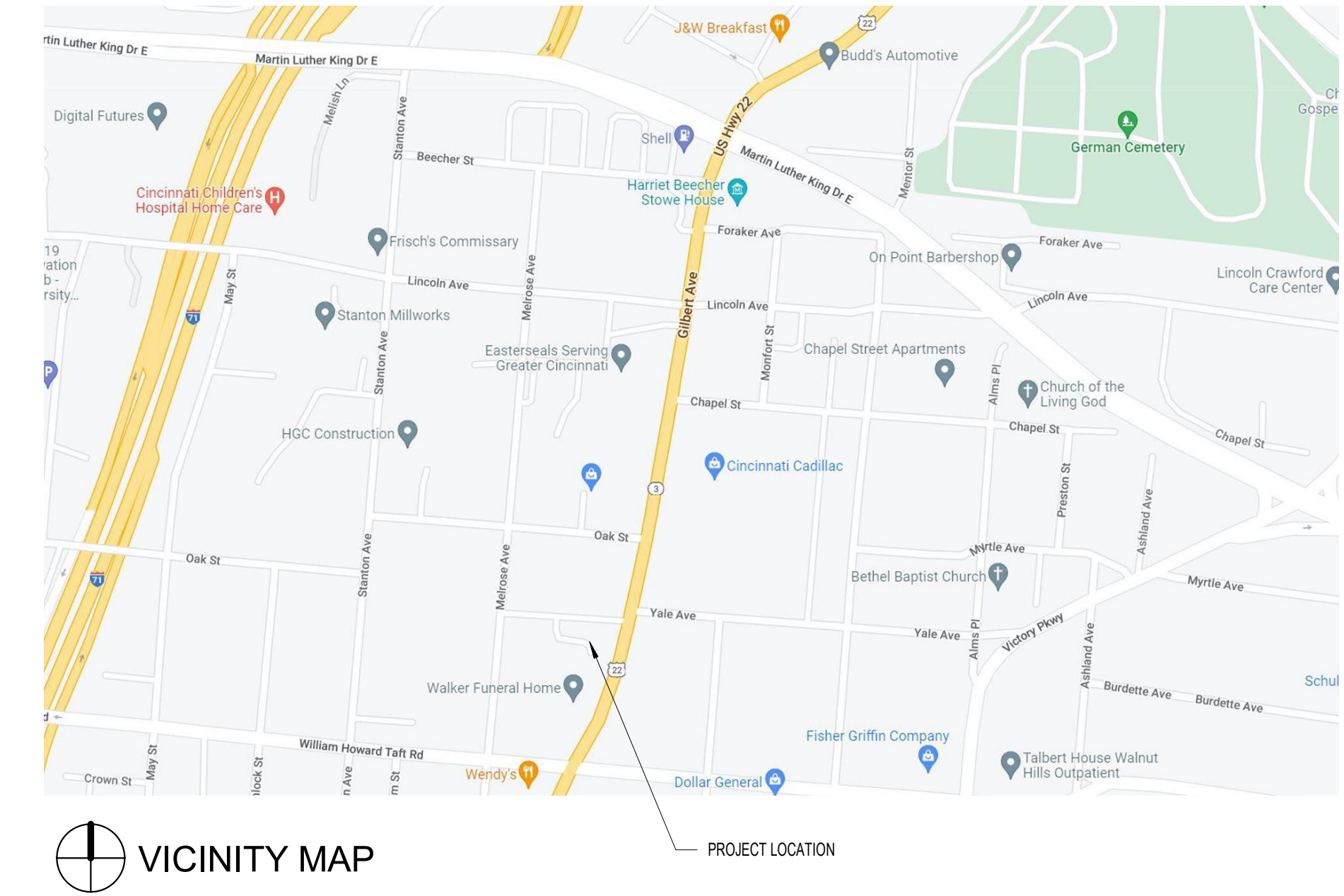
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MODEL GROUP
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 Ph: 513.559.0048

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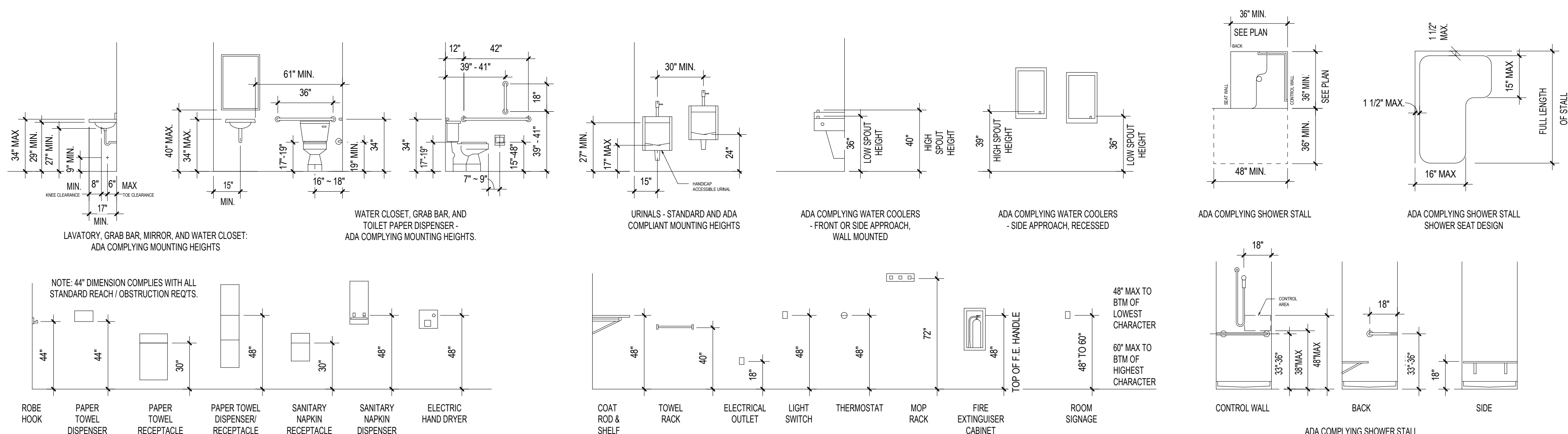
STRUCTURAL ENGINEER:
ADVANTAGE GROUP ENGINEERS, INC.
 1527 Madison Rd., 2nd Floor, Cincinnati, OH 45206
 Ph: 513.205.8839

PLUMBING / MECHANICAL / ELECTRICAL ENGINEER:
ENGINEERED BUILDING SYSTEMS
 515 Monmouth Street, Newport, KY 41071
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SYMBOL LEGEND		ABBREVIATIONS	
Room name [100] 150 SF	ROOM NAME ROOM NUMBER AREA (OPTIONAL)	1Ref	INTERIOR ELEVATION MARKER ELEVATION NUMBER SHEET NUMBER
101	DOOR TAG	Ref	EXTERIOR ELEVATION MARKER ELEVATION NUMBER SHEET NUMBER
11	STOREFRONT TAG	1 SIM	BUILDING SECTION MARKER ELEVATION NUMBER SHEET NUMBER
W1	WINDOW TAG	1 SIM	WALL SECTION MARKER ELEVATION NUMBER SHEET NUMBER
A1.1	WALL TYPE TAG		
10A	TOILET & BATH ACCESSORY TAG		
Level line or point elevation	LEVEL LINE OR POINT ELEVATION		
A	CONSTRUCTION NOTE		
1	REVISION TAG		
		AFF	ALIGN FINISH FACE
		A.F.F.	ABOVE FINISH FLOOR
		C.L.	CENTERLINE
		C.G.	CEILING
		C.J.	CONTROL JOINT
		E.J.	EXPANSION JOINT
		E.Q.	EQUAL
		F.E.C.	FIRE EXTINGUISHER MOUNTED W/ WALL BRACKET
		O.C.	ON CENTER
		OPP.	OPPOSITE HAND
		SIM.	SIMILAR
		TYP.	TYPICAL
		U.N.O.	UNLESS NOTED OTHERWISE

GENERAL PROJECT NOTES
 SEE SPECIFICATIONS PAGE FOR GENERAL PROJECT NOTES



1 STANDARD ADA MOUNTING HEIGHTS
 G000 SCALE: 1/4" = 1'-0"

NO.	DESCRIPTION	DATE
	80% OHFA REVIEW	01/04/23
	PERMIT SET	04/13/23
A	PERMIT REVISION	05/23/23

COVER SHEET

21-116

G000

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GENERAL PROJECT NOTES

DIVISION 01 – GENERAL REQUIREMENTS

- 013000 – ADMINISTRATIVE REQUIREMENTS
- 001 Contractor shall be responsible for verification and coordination of sub-contractors work to secure compliance with the drawings and specifications.
- 002 Safety: In accordance with generally accepted construction practices, Contractor will be solely and completely responsible for conditions of job site, including safety of all persons and property during performance of this contract. This responsibility will not be limited to normal working hours.
- 003 Per Document AIA A201, Sections 3.12.6 and 3.12.8, by submitting shop drawings, product data, samples and similar submittals, the Contractor represents to the Owner and the Architect that Contractor has reviewed and approved them with the appropriate stamp and determined that the submitted items conform to the contract documents. The work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of shop drawings, product data, samples or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of submittal and the Architect has given written approval to the specific deviation as a minor change in work or a change order or change directive has been issued authorizing the deviation.
- 004 When the contractor considers the work to be substantially complete, he/she shall submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not void any items which are required by the contract documents. The Architect reserves the right to add any additional items to the list for the contractor to complete before final payment.
- 005 The Contractor shall agree to warranty all work for a period of one year from the date of Substantial Completion. During this period of time the Contractor agrees to remedy any defects in their work and pay for any resultant damages to other work. This warranty shall apply to the work of all trades and sub-contractors.
- 006 The Architect shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by the Contractor.
- 007 It shall be the responsibility of the Owner to observe construction and verify that the work described in the Construction Documents is complied with in the event the Architect is not retained for observation services. At the time of this printing the Architect has not been retained for Construction Observation services.
- 008 Geotechnical services shall be provided by the Owner. All additional "Special Inspections" required by the governing authorities shall be the responsibility of this contractor.
- 014000 – QUALITY REQUIREMENTS
- 001 The Contractor shall obtain all required permits and inspections unless indicated otherwise.
- 002 All work shall conform to the current building code, and all applicable laws, rules, regulations and ordinances or governing authorities. In case of conflict the most restrictive shall not limit their applicability.
- 003 The term "provide" when used shall mean "furnish and install" unless noted otherwise.
- 004 Provide blocking on walls, ceilings, etc. wherever items will be attached to these surfaces (i.e. toilet accessories, wall mounted door stops, fixtures, casework, handrails, etc.)
- 005 Provide freestopping between open vertical partitions and horizontal spaces above finished ceiling. Provide freestopping at all locations required by governing codes and authorities. Contact building inspector for inspection of all freestopping prior to installation of any material which will conceal the freestopping.
- 006 Soil bearing for all foundations shall be verified by a geotechnical engineer.
- 007 At all stairways, the leading two inches of the tread shall have visual contrast of dark-on-light or light-on-dark from the remainder of the tread.
- 008 The design of the fire alarm system (if required) and any fire suppression system (if required) shall be the responsibility of the Contractor. The Contractor shall size the systems per any governing codes/authorities and in accordance with good general engineering practice. All piping, wiring and ductwork shall be run concealed in finished spaces. Where necessary, the Contractor shall construct bulkheads and duct enclosures where indicated on drawings to conceal items. The Contractor shall submit drawings showing proposed ductwork runs and any bulkheads or duct enclosures that may be necessary prior to the start of construction. The Owner reserves the right to relocate any bulkheads or duct enclosures that are determined to be detrimental to the design or functioning of the interior spaces. Lower ceilings as required to install new MEP items. Coordinate lower ceilings and bulkheads with Owner/Architect.
- 009 If there is a conflict on the drawings the most stringent/expensive/greatest quantity shall apply.
- 010 No damaged, scratched, dented items/products, etc. will be accepted at final installation. All items shall be corrected at the expense of the Contractor.

015000 – TEMPORARY FACILITIES AND CONTROLS

- 001 Contractor is responsible for providing any temporary water, sanitary services, electrical service, heating and trash removal as needed to complete the work.
- 002 Temporary bracing structural components as required to maintain stability until complete and functioning as a designed unit.
- 003 Fumes and dust shall be controlled so as to prevent any harmful or undesirable effects in the surrounding area.

016000 – PRODUCT REQUIREMENTS

- 001 Provide products that comply with the Contract Documents, are undamaged and unless otherwise indicated, are new at time of installation.
- 002 Provide products complete with accessories, trim, finish, fasteners and other items necessary for complete and functioning as a designed unit and effect.
- 003 Deliver, store and handle products using means and methods that will prevent damage, deterioration and loss, including theft and vandalism. Comply with manufacturer's written instructions.

017000 – EXECUTION AND CLOSEOUT REQUIREMENTS

- 001 Upon completion of the work and before acceptance by the Owner/Architect, thoroughly clean the areas affected by the work. Remove all surplus construction material or debris resulting from the work and legally dispose of the same off site.
- 002 Clean all interior and exterior glass surfaces immediately prior to turning over to Owner.
- 017300 – EXECUTION
- 001 Show, brace and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.
- 002 Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.
- 003 Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in the Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
- 004 Cutting, Cut in-place construction by sawing, drilling, breaking, chipping, grinding and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction.
- 005 Patching: Patch construction by filling, repairing, refinishing, closing up and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable.
- 006 Clean project site and work areas daily, including common areas. Dispose of materials lawfully.
- 007 Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

DIVISION 02 – EXISTING CONDITIONS

- 022000 – ASSESSMENT
- 001 Commencement of work by the Contractor shall signify the acceptance of the site conditions.
- 002 Area and dimensions: It shall be the responsibility of the Contractor(s) to verify all area takeoffs and dimensions by making their own field measurements before starting work or ordering materials.
- 003 The Contractor shall verify at the job site, all dimensions and conditions shown on the drawings and within the Contract Documents and shall notify the Architect of any discrepancies, omissions and/or conflicts before proceeding with the project. All discrepancies shall be resolved before starting work or ordering materials.
- 004 The Contractor shall not scale drawings, written dimensions shall govern. Large scale drawings shall govern over small scale drawings. Field verify existing conditions where no dimensions exist.
- 005 All dimensions to new construction are to face of concrete, face of masonry, face of stud or column centerline unless noted otherwise. Any dimension noted as 'clear' is from finished face to finished face.
- 006 Contractor shall verify location of all existing utilities. Take precautions as necessary to protect them. Repair all utilities damaged during construction at no cost to the Owner.
- 007 Field verify all existing dimensions.

GENERAL PROJECT NOTES – TECHNICAL SPECIFICATIONS

DIVISION 04 – MASONRY

- 042000 – UNIT MASONRY
- 001 Concrete masonry units to be normal weight with minimum average net-area compressive strength of 1900 psi
- 002 Brick masonry shall have minimum average net-area compressive strength of 3500 psi.
- 003 Control/expansion joints in concrete masonry units and brick shall be 3/8" wide and installed at 24'-0" o.c. max. unless indicated otherwise on the drawings. Joints shall receive backing rod and caulk.
- 004 Mortar type shall be per the following applications:
 - a.) Masonry below grade or in contact with earth, use Type M
 - b.) Reinforced masonry, use Type S
 - c.) Exterior, above-grade, load bearing and non-load bearing walls; interior load bearing and non-load bearing walls; and other applications where another type is not indicated, use Type N.
- 005 Horizontal joint reinforcing for single wythe concrete masonry to be hot dip galvanized 9 gage ladder type placed at 16" o.c. vertically unless noted otherwise. Lap reinforcing 6" minimum. Discontinue reinforcing at movement joints.
- 006 Adjustable masonry-veneer anchors/ties to be hot dip galvanized. Attach through wall sheathing to wall framing. Anchors shall allow vertical adjustment but resist tension and compression forces. Size wire ties to extend at least halfway through veneer but with at least 3/8-inch cover on outside face. Outer ends of wires are bent 90 degrees and extend 2 inches parallel to face of veneer.
- 007 Thru-wall flashing shall be asphalt-coated copper - 7 oz./sq. ft.
- a.) At masonry veneer walls, extend flashing through veneer, across air space and up face of sheathing at least 8 inches with upper edge tucked under building wrap/paper, lapping at least 4 inches.
- b.) At multi-wythe masonry wall, including cavity walls, extend flashing through outer wythe, turned up a minimum of 4 inches, and extend 1-1/2 inches into the inner wythe
- c.) At lintels and shelf angles, extend flashing a minimum of 6 inches into masonry at each end. At heads and sills, extend flashing 6 inches in ends and turn up not less than 2 inches to form end dams.
- d.) Install stainless steel drip edge beneath flexible flashing at exterior face of wall. Metal drip edge shall extend no less than 3 inches into the wall and be set in mastic or sealant. Stop flexible flashing 1/2 inch back from outside face of wall and adhere flexible flashing to top of metal drip edge. Metal drip edge shall be turned down 1/2 inch.
- 008 Provide free draining mesh material ("Mortar Mat" by Heckman Building Products or equal) at all thru-wall flashing locations.
- 009 Weep/Vent Products: Install at 24" o.c. using one of the following, unless otherwise indicated:
 - a.) Wicking material: Absorbent rope, made from cotton, 1/4 to 3/8 inch in diameter, in length required to extend 18 inches in cavity between wythes. Cut flush with exterior face of masonry.
 - b.) Cellular Plastic Weep/Vent: One piece, flexible extrusion made from UV-resistant polypropylene copolymer, full height and width of head joint and depth 1/8" less than depth of outer wythe, in color selected from manufacturer's standard.
- 010 Masonry construction and materials shall conform to all requirements of "Specifications for Masonry Structures (ACI 530.1/ASCE 6-88)" except as modified by the requirements of these contract documents.
- 011 Grout for bond beams and for filling hollow block: Concrete grout complying with ASTM C476 with fine aggregate and with minimum compressive strength of 3000 psi at 28 days. Place grout carefully around all reinforcing to fill all voids.
- 012 Reinforcing steel: ASTM A615, 60 ksi yield. Size and number of bars in bond beams as shown on drawings. Lap all bars a length equal to 48 bar diameters minimum.
- 013 Provide prefabricated "L" and "T" shaped horizontal joint reinforcing at wall intersections.
- 014 Running bond pattern shall be used for all masonry work. Tool all joints concave.
- 015 Unless noted otherwise on plans, under lintels, bearing plates, beams, etc., fill cells with Grout, 3 courses minimum below bearing.
- 016 All reinforcing steel shall be supported and fastened to approved positioners located at 192 bar diameters maximum spacing to prevent displacement during the placement of grout.
- 017 Provide lap splices of length equal to 48 bar diameters for all reinforcing.
- 018 At masonry control joints, use concrete masonry units with sash notch on ends aligned vertically over each notch in ends of units below. Install hard rubber control joint strip vertically in notched block to tie the two sides of the joint together. Rake mortar from the vertical control joints for caulking.
- 019 At all pre-cast concrete sills, heads, copings, etc. rake each joint and caulk.

DIVISION 05 – METALS

- 051000 – STRUCTURAL METAL FRAMING
- 001 All miscellaneous metal fabrications, lintels, structural steel, etc. exposed to the exterior shall be galvanized unless noted otherwise.
- 002 All anchor bolts and expansion bolts shall be galvanized steel bolts of the sizes shown on drawings or, if not shown, as required to carry superimposed loads.
- 003 Framing connectors specified on the drawings shall be galvanized steel metal connectors manufactured by the Simpson Strong Tie Company and shall be fastened as specified in the Simpson Product and Instruction Manual to carry the maximum allowable load of the connectors.
- 05211 – PIPE AND TUBE RAILINGS
- 001 At exterior locations, core drill and set pipe in non-shrink, non-metallic grout, minimum 6" embedment. Make sure drilled hole is dust free. Prep hole with Acryl 60 primer. Provide sloping silicone sealant around pipe penetrations to keep water out.

DIVISION 06 – WOOD, PLASTICS AND COMPOSITES

- 062000 – FINISH CARPENTRY
- 001 Provide and install a minimum of four (4) cabinet screws per cabinet. The use of drywall screws is strictly forbidden. Provide blocking as required to support cabinet.
- 002 Install cabinets without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
- 003 Anchor securely by screwing through corner blocks of base cabinets or other supports into underside of countertop.
- 004 Complete fabrication, including assembly, finishing and hardware application, to maximum extent possible before shipment to project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming and fitting.
- 005 Laminate cladding for exposed surfaces: High-pressure decorative laminate GRADE HGS. Color as selected by Owner from laminate manufacturer's matte, suede or equivalent finish.
- 006 Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the work. Proceed with installation only after unsatisfactory conditions have been corrected.
- 007 Install woodwork level, plumb, true and straight. Shim as required with concealed shims. Install level and plumb (including tops) to a tolerance of 1/8 inch in 96 inches.
- 008 Scribe and cut woodwork to fit adjoining work, refinish cut surfaces and repair damaged finish at cuts.
- 009 Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails or finishing.
- 010 Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Do not use piece pieces less than 60 inches long, except where shorter single-length pieces are necessary. Scarf running joints and stagger in adjacent and related members.

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

- 072000 – THERMAL AND MOISTURE PROTECTION
- 001 Insulation shall have a flame-spread index of not more than 25 and a smoke-developed rating of not more than 450 for both concealed and exposed installations. In concealed applications of Type III, IV, or V construction, insulation facing is not required to comply flame spread and smoke developed ratings where insulation is in direct contact with the surface material of the wall, floor, or ceiling.

076000 – FLASHING AND SHEET METAL

- 001 All prefinished metal flashing, counter flashing, drip edges, valley flashing, etc. shall be .032 inch aluminum.
- 002 Install step flashing and counter-flashing as required at all masonry intersections with different materials (i.e. chimneys). Let counter-flashing into brick.

077000 – ROOF SPECIALTIES

- 001 Gutters shall be residential aluminum with ogee profile with concealed support straps at 24" o.c. maximum, 6" wide. Provide expansion joint at maximum 30'-0" o.c. Gutters shall be painted with Kynar paint - 10 year finish warranty. Downspouts shall be residential aluminum with support brackets at maximum 6'-0" o.c. vertically, 3"x4" profile. Downspouts shall be painted with Kynar paint.

078000 – FIRE AND SMOKE PROTECTION

- 001 Provide penetration freestopping that is produced and installed to resist spread of fire according to requirements indicated, resist passage of smoke and other gases, and maintain original fire-resistance rating of construction penetrated. Penetration freestopping systems shall be compatible with one another, with the substrates forming openings, and with penetrating items if any.
- 002 Install penetration freestopping to comply with manufacturer's written installation instructions and published drawings for products and applications indicated.
- 003 Where required, provide fire-resistive joint systems that are produced and installed to resist spread of fire according to requirements indicated, resist passage of smoke and other gases, and maintain original fire-resistance rating of assemblies in or between which fire-resistive joint systems are installed. Fire-resistive joint systems shall accommodate building movements without impairing their ability to resist the passage of fire and hot gases.

079000 – JOINT PROTECTION

- 001 For interior joints to be painted such as around door frames and where different materials to be painted meet: Acrylic latex caulking by Porter, Tremco or Dap
- 002 For exterior joints and for interior and exterior joints around louvers, windows, masonry control joints, etc.: Tremco Dymonic or Sonneborn Sonolastic NP 1 sealant. At control joints in masonry and elsewhere as required, install foam backed rod behind sealants.
- 003 Exterior Joints: (B.O.D. Dow Corning or equal)
 - a.) Perimeters of exterior openings where frames meet exterior facade (i.e. precast, masonry, EIFS, stucco, etc.): Dow Corning 795 Silicone Building Sealant OR Dow Corning 795 SMS Building Sealant
 - b.) Expansion and control joints (for exterior surfaces indicated):
 - 1. Cast-in-place concrete: Dow Corning 790 Silicone Building Sealant
 - 2. Architectural precast: Dow Corning 790 Silicone Building Sealant
 - 3. Unit masonry walls: Dow Corning 790 Silicone Building Sealant OR Dow Corning 795 Silicone Building Sealant.
 - 4. Architectural composite metal panels (ACMP): Dow Corning 795 SMS Building Sealant
 - 5. Granite or Limestone: Dow Corning 790 Silicone Building Sealant OR Dow Corning 795 SMS Building Sealant OR Dow Corning 795 Silicone Building Sealant.
 - 6. Marble or sensitive stone surfaces: Dow Corning 795 SMS Building Sealant.
 - 7. Coping joints and coping-to-façade joints: Dow Corning 795 Silicone Building Sealant OR Dow Corning 795 SMS Building Sealant.
 - 8. Cornice and wash: Dow Corning 795 Silicone Building Sealant.
 - c.) Expansion/control joints in Exterior Insulation Finish Systems (EIFS): Dow Corning 790 Silicone Building Sealant.
 - d.) Joints between EIFS and adjacent non-porous materials: Dow Corning 795 Silicone Building Sealant OR Dow Corning 791 Silicone Waterproofing Sealant.
 - e.) Exterior joints in horizontal concrete surfaces:
 - 1. Precast and Cast-in-Place Concrete: Dow Corning NS (non-sag) Parking Structure Sealant OR Dow Corning FC (fast-cure) Parking Structure Sealant (also self-leveling) OR Dow Corning SL (self-leveling) Parking Structure Sealant
 - 2. Unit Pavers, Granite Pavers, Brick Masonry Pavers: Dow Corning 790 Silicone Building Sealant.
 - f.) Concealed internal metal-to-metal seals (i.e., flashings, formed metal copings, curtainwall systems, etc.): Dow Corning 791 Silicone Weatherproofing Sealant OR Dow Corning 795 Silicone Building Sealant.

- 004 Interior Joints: (B.O.D. Dow Corning or equal)
 - a.) Interior perimeters of exterior openings: Dow Corning 791 Silicone Waterproofing Sealant.
 - b.) Expansion or control joints: On the interior of the following exterior elements:
 - c.) Cast-in-place concrete walls: Dow Corning 790 Silicone Building Sealant OR Dow Corning Contractors Concrete Sealant
 - d.) Architectural precast: Dow Corning 790 Silicone Building Sealant OR Dow Corning Contractors Concrete Sealant
 - e.) Unit masonry walls: Dow Corning 795 Silicone Building Sealant.
 - f.) Expansion and control joints in interior floor surfaces: Dow Corning NS (non-sag) Parking Structure Sealant OR flexible epoxy joint filler for wheeled traffic on industrial floors.
 - g.) Joints of underside of precast of cast-in place concrete: Dow Corning 790 Silicone Building Sealant
 - h.) Perimeters of interior frames: Dow Corning 791 Silicone Weatherproofing Sealant OR Dow Corning Contractors Weatherproofing Sealant
 - i.) Interior masonry vertical control joints: Dow Corning 795 Silicone Building Sealant OR Dow Corning Contractors Concrete Sealant.
 - j.) Bath, tub and shower enclosures and fixtures: Dow Corning 786 Mildew Resistant Silicone Sealant
 - k.) Exposed control joints in gypsum board: silicone/acrylic latex sealant.
 - l.) Exposed and non-exposed acoustical applications in gypsum board: acoustical sealant.
- 005 1. Caulk the following locations:
 - 1a. Joints between wood trim and wall surfaces
 - 1b. Joints between abutting pieces of wood trim where not tight.
 - 1c. Perimeter joints of exterior openings.
 - 1d. Open cracks at intersecting walls.
 - 1e. Joints between plumbing fixtures and adjoining walls, floors and counters.
 - 1f. Joints between dissimilar materials.
 - 1g. Other joints where indicated or necessary for weathertight/watertight/airtight installation.
 - 1h. Under all window stools to drywall
- 2. Provide caulking with the following characteristics:
 - 2a. All interior locations unless noted otherwise: Latex caulk complying with ASTM C 834, Type P, Grade NF or better.
 - 2b. All bathrooms, kitchen counters and exterior locations: Single-Component Mildew-Resistant Acid-Curing Silicone Sealant (Dow Corning 786 Mildew Resistant, GE Silicone Sanitary SC51700 or equal)
- 3. Provide backing materials where recommended, or required, by caulking manufacturer.
- 006 Provide joint sealants, backings and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
- 007 Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- 008 Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- 009 Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- 010 Interior joints in vertical surfaces and horizontal nontraffic surfaces: Latex
- 011 Mildew resistant interior joints in vertical surfaces and horizontal nontraffic surfaces: Mildew resistant, single component, nonsag, neutral curing, Silicone.
- 012 Caulk colors shall be similar to adjacent material. Consult architect on final color selection.

DIVISION 08 – OPENINGS

- 081000 – DOORS AND FRAMES
- 001 Metal door frames shall be galvanized (at exterior locations), primed and painted 16 gage steel frames fabricated of full-welded unit construction with exposed welds ground smooth. Face of frames shall be 2" at jambs and 4" at heads to work with masonry coursing. Reinforce frames as required for hardware and furnish all required anchors. Install frames in accordance with manufacturer's recommendations.
- 087100 – DOOR HARDWARE
- 001 All hardware shall be heavy duty, commercial grade. All locksets and latchesets shall have levers complying with handicap requirements. Install all hardware in accordance with manufacturer's recommendations. Key and masterkey locks as directed by Owner
- 088000 – GLAZING
- 001 Safety glazing shall be installed in the following locations:
 - 1. Glazing in swinging doors except jalousies.
 - 2. Glazing in fixed and sliding panels of sliding door assemblies and panels in sliding and bifold closet door assemblies.
 - 3. Glazing in storm doors.
 - 4. Glazing in unframed swinging doors.
 - 5. Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches measured vertically above any standing or walking surface.
 - 6. Glazing in an individual fixed or operable panel adjacent to a door where the nearest vertical edge is within a 24-inch arc of the door in a closed position and whose bottom edge is less than 60 inches above the floor or walking surface.
 - 7. Glazing in an individual fixed or operable panel, other than those locations described in items 5 and 6 above, that meets all of the following conditions:
 - 7a. Exposed area of an individual pane larger than 9 square feet.
 - 7b. Bottom edge less than 18 inches above the floor.
 - 7c. Top edge more than 36 inches above the floor.
 - 7d. One or more walking surfaces within 36 inches horizontally of the glazing.
 - 7e. All glazing in railings regardless of an area or height above a walking surface. Included are structural baluster panels and nonstructural infill panels.
 - 7f. Glazing adjacent to stairways, landings and ramps within 36 inches horizontally of a walking surface when the exposed surface of the glass is less than 60 inches above the plane of the adjacent walking surface.
 - 7g. Glazing adjacent to stairways within 60 inches horizontally of the bottom tread of a stairway in any direction when the exposed surface of the glass is less than 60 inches above the nose of the tread.
- 002 All bedroom windows shall have the minimum criteria:
 - 1a. The window shall have a minimum net clear opening of 5.7 square feet.
 - 1b. The window shall have a minimum net clear opening height of 24 inches.
 - 1c. The window shall have a minimum net clear opening width of 20 inches.
 - 1d. The window shall be operational from the inside of the room without the use of keys, tools or special knowledge.
 - 1e. The window sill shall not be higher than 44" inches AFF.
- 003 All gaps between the window frame/unit and the adjacent wall shall be filled with low-rise expanding foam insulation.

DIVISION 09 – FINISHES

- 092000 – PLASTER AND GYPSUM BOARD
- 001 All drywall joints shall be taped with paper tape, open mesh tape is not permitted.
- 002 Provide continuous metal edge (USG #801-A) at all exposed panel edges and intersection with non-gypsum surfaces. J-stap moldings are not permitted.
- 003 Provide gypsum board of minimum 5/8" thickness, unless indicated otherwise, in continuous wall or ceiling lengths
- 004 Finish gypsum panels to levels indicated below:
 - a.) Level 1: Ceiling plenum areas, concealed areas, and where indicated.
 - b.) Level 2: Panels that are substrate for tile
 - c.) Level 4: All panel surfaces exposed to view
- 005 Moisture-Resistant Gypsum Board (MRG) and Paper-faced Moisture Resistant Gypsum Board shall be provided as follows:
 - a.) Moisture-Resistant Paperless Gypsum Board (PGB) shall provided in the following areas:
 - Behind kitchen sinks and bathroom/toilet room sinks to a height of approximately 3 inches above base cabinet.
 - Shower walls where the PGB will not have an exposed finish except 6 inches beyond shower and tub jambs (floor to top of tub surround or 6 inches above shower nipple and this may be cased with water and rot-resistant trim).
 - Behind toilets and the space between a tub/shower enclosure and to the top of toilet tanks must be covered as it is a high failure point specifically covered by PGB.
 - PGB shall only be located on ceilings that bathroom or toilet rooms are above.
 - On walls less than 4 feet from sprinkler service controls and water service lines located in service rooms.
 - Where indicated on drawings
 - b.) Paper-faced Moisture Resistant Gypsum Board shall be in the following areas:
 - Within 4 feet horizontally and vertically of any water source, except directly behind sinks, tub, and shower surrounds and behind toilets where PGB will be installed.
 - Within 4 feet in any direction behind laundry/clothes washing machines, water heaters, water meters, etc.
 - At all walls in bathrooms where PGB is not installed.
 - Behind public drinking fountains.
 - Where indicated on drawings
- 006 Install fiberglass reinforced concrete board behind all areas to receive tile.
- 007 Gypsum board shall comply with ASTM C36
- 008 Screws in types and lengths as recommended by drywall manufacturer. No nails allowed.
- 009 All purpose, ready-mixed compound with reinforcing tape at seams.
- 010 Casing beads, corner beads, etc. shall be metal (plastic or vinyl is not permitted).
- 011 Steel drill screws: ASTM C 1002.
- 012 NO NAILS ARE PERMITTED.
- 013 Install gypsum board continuous behind all bulkheads and drop down ceilings.

093100 – THIN-SET TILING

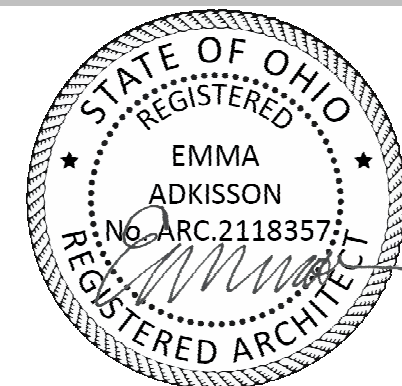
- 001 Install a crack isolation membrane under subsurface of thin-set tile. Follow manufacturer's recommendations for proper installation Refer to ANSI A118.12 for additional guidelines (RedGard Waterproofing and Crack Prevention Membrane)
- 002 Install movement joints in ceramic tile under the following guidelines:
 - a.) Interior – 20'-0" to 25'-0" in each direction.
 - b.) Interior tilework exposed to direct sunlight or moisture – 8'-0" – 12'-0" in each direction
 - c.) Where tilework abuts restraining surfaces:
 - All expansion, control, construction, cold and seismic joints in the structure should continue through the tilework, including such joints at vertical surfaces. Joints through structural joints must never be narrower than the structural joint.
- 096000 – PAINTING AND COATING
- 001 All surfaces to be painted shall be prepared in accordance with the paint manufacturer's recommendations to full coverage. Prime all surfaces in accordance with the paint manufacturer's recommendations. All surfaces to receive one primer coat and two finish coats.
- 002 Painting work includes applying a paint coating as scheduled on drawings to walls, doors, frames, trim, etc. Paint all surfaces. Products shall be high quality products as manufactured by Porter, Benjamin Moore, Glidden or Sherwin Williams. Colors shall be selected from color charts of manufacturer.
- 003 Paint shall be applied in separate coats. Sand between coats as required for smooth finish. Apply additional topcoats if required to provide a smooth even finish or if required to provide complete coverage of substrates.
- 004 Apply paint in accordance with manufacturer's recommendations. Take care to avoid danger of fire. Remove oily or solvent coated rags daily. Mask adjoining surfaces, protect against areas from damage and touch up all paint as required.
- 005 Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- 006 Use applicators and techniques suited for paint and substrate indicated.
- 007 Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
- 008 Interior doors/trim shall have one of the following finishes: Painted – primed once, with two-coat satin or semi-gloss finish on all sides and faces.
- 009 Interior walls shall be primed once, with two-coat finish with eggshell finish unless noted otherwise. Use gloss, semi-gloss or satin finish for bathrooms, laundry and kitchens.
- 010 Interior ceilings paint sheen shall be flat unless noted otherwise.
- 011 All paints and coatings to be low VOC

DIVISION 10 – SPECIALTIES

- 001 Provide the following toilet accessories in first floor restrooms as manufactured by Bobrick. Equal products by Bradley may also be used. Bobrick model numbers are given below.
 - a.) 24" x 36" Mirror - #B-165 2436
 - b.) Toilet tissue dispenser - #B-288
 - c.) 36" Grab bar - #B-6806
 - d.) 42" Grab bar - #B-6806
 - e.) 18" Grab bar - #B-6806
 - f.) Paper towel dispenser - #B-262



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**GENERAL SPECIFICATIONS
AND PROJECT NOTES**

LEED for Homes v4 Low-rise Notes for Plans

IP Credit 1.3 (option 3) – Trades Training

- At the onset of construction organize a LEED trades training moderated by LEED Green Rater and/or Provider-QAD.
- Following trades to attend - GC Project Manager, GC Site Superintendent, Mechanical-Electrical-Plumbing, Insulation, Framing, Drywall, Air-Infiltration Package.
- Provide a minimum of 2-week notice to LEED Green Rater prior to training date.

SS Prerequisite 1 - Construction Activity Pollution Prevention

- Stakepile and protect disturbed areas from erosion (for reuse).
- Control the path and velocity of runoff with silt fencing or comparable measures.
- Protect on-site storm sewer inlets, streams, and lakes with straw bales, silt fencing, silt sacks, rock filters, or comparable measures.
- Provide swales to divert surface water from hillsides.
- Use tiers, erosion blankets, compost blankets, filter socks, berms, or comparable measures to stabilize soils in any area with a slope of 15% (6.6:1) or more that is disturbed during construction.
- Prevent air pollution from dust and particulate matter.
- Construction sites larger than 1 acre must conform to the erosion and sedimentation requirements of the 2012 U.S. Environmental Protection Agency Construction General Permit or local equivalent, whichever are more stringent.

SS Prerequisite 2 - No Invasive Plants

- Coordinate with Landscape Contractor to ensure no invasive plant species are introduced into landscape.

SS Credit 3 - Non-toxic Pest Control

- For below-grade walls, use solid concrete foundation walls, masonry walls with a course of solid block bond beam, or concrete-filled block.
- Design a minimum 6-inch inspection space between the surface of the planned landscape grade and non-masonry siding.
- Seal all external cracks, joints, penetrations, edges, and entry points with appropriate caulking. Install rodent and corrosion-proof screens (e.g., copper, or stainless-steel mesh) on all openings greater than 1/4 inch, except where code prohibits their installation (e.g., dryer vents).
- Design discharge points for rain gutters, air-conditioning condensation lines, steam vent lines, or any other moisture source such that discharge is at least 24 inches from the foundation.
- Multifamily building projects must develop an integrated pest management policy that includes guidance for residents on pesticide use, housekeeping, and prompt reporting of pest problems; incorporate the policy in the Homeowner Education Manual.

WE Prerequisite 1 – Water Metering

- Multifamily: Install a water meter for each building.

WE Credit 1 - WE Credit 2 – Indoor Water Use

- Average flow rate of lavatory faucets shall be 1.00 gallons per minute or less. Each lavatory faucet or faucet aerator must be WaterSense labeled.
- Average flow rate of showers shall be 1.50 gallons per minute or less. Each showerhead fixture and fitting must be WaterSense labeled.

EA Prerequisite 1– Minimize Energy Performance (Single-Family and Multifamily Low-rise)

- Meet the requirements of ENERGY STAR for Homes, version 3.
- Complete the thermal enclosure system rater checklist, the HVAC system quality installation rater and contractor checklists, and the water management system builder checklist. Certified Passive House projects automatically meet the thermal enclosure system rater checklist requirement. Achieve a HERS index rating at or below the HERS index target or meet the requirements of the ENERGY STAR for Homes version 3.
- At least one of the following appliances must be ENERGY STAR qualified and installed in each dwelling unit: refrigerator; OR dishwasher; OR clothes washer.
- All duct runs must be fully ducted (i.e., building cavities may not be used as ducts).
- Minimum envelope leakage – Following areas of building envelope and demising walls shall be sealed, caulked, gasketed, or weather-stripped to minimize envelope leakage:
 - Joints around windows and doors.
 - Joints between walls and foundation; between conditioned spaces and attics, demising walls, crawl spaces or garage.
 - Seal joints between sill plate and drywall.
 - Seal joints between top plate and drywall.
 - All mechanical, plumbing, and electrical penetrations in exterior and demising walls. Mechanical chase shall be sealed at crawl space ceiling.
 - Exterior sheathing and house wrap.
 - Minimize entry of air from outdoors, attic, garage, and crawl space into exterior wall and interior wall cavities to ensure passing of air infiltration test.
 - Batt insulation shall be stapled to face of stud to ensure full contact of insulation with face of drywall. Cut insulation around all mechanical, plumbing, and electrical work.
 - Thermal Bypass Inspection - The Green Rater will conduct a visual Thermal Bypass Inspection to inspect proper installation and continuity of thermal insulation and air-tightness of envelope. This inspection must take place after exterior envelope insulation has been installed, but prior to and installation of any drywall. One inspection per floor shall be conducted. If additional inspections are deemed necessary due construction sequencing, Contractor shall notify the Architect and Green Rater immediately. Contractor shall schedule the inspection with no less than two weeks' notice to the Green Rater. Contractor shall provide access to each unit and cooperate with conducting of the test. Additional inspections necessary due to incomplete work shall be back-charged to the Contractor. A sample Thermal Bypass Inspection Checklist is enclosed in section 018113.
 - Final Inspections - Upon substantial completion and prior to occupancy, the Green Rater will conduct a visual Final Inspection to verify green requirements incorporated in the project. The contractor shall notify the Green Rater at least four (4) weeks prior to the anticipated date for such inspection. Contractor shall provide access to each unit and cooperate with conducting of the test. Additional inspections necessary due to incomplete work shall be back-charged to the Contractor.
 - Third-Party Testing - Third-party Testing is to be scheduled and conducted in conjunction with the final inspection. The contractor shall notify the Green Rater at least four (4) weeks prior to the anticipated date for such inspection. Contractor shall provide access to each unit and cooperate with conducting of the test. The following tests shall be conducted by Green Rater:
 - Air Infiltration Test (Blower door Test) – Mandatory – Measures air leakage through unit enclosure such as exterior walls, demising walls, ceilings, chases, etc.
 - Distribution Loss Test (Duct Blaster Test) – Mandatory – Measures leakage through the mechanical distribution system
 - Exhaust Test - Measures exhaust rate for bathroom fans and kitchen fans.
 - Flow Test and Balancing – Measure air flow at each supply register and pressure differential between rooms.

EA Prerequisite 2 – Energy Metering

- For Multifamily Buildings
- Install an electricity meter or submeter for each residential unit and a gas meter for the entire building, or a gas meter or sub-meter for each unit. Single room-occupancy units, transitional and temporary housing, and designated supportive housing buildings do not need an energy meter in each unit but must have a whole-building energy meter.

EA Prerequisite 3 – Education of the Homeowner, Tenant, or Building Manager

- General Contractor to provide to Owner or Owner's Building Management an operations and maintenance manual, binder, or CD that includes all the following items:
 - the completed checklist of LEED-related features;
 - a copy of each signed accountability form;
 - copies of all ENERGY STAR for Home, version 3, checklists;
 - product manufacturers' manuals for all installed equipment, fixtures, and appliances;
 - general information on efficient use of energy, water, and natural resources;
 - operations and maintenance guidance for any installed equipment, including space heating and cooling, mechanical ventilation, humidity control, radon protection, renewable energy, and irrigation, rainwater harvesting, or graywater systems (following 2009 EPA WaterSense Single-Family New Home Specifications, Item 5.0, Homeowner Education).
 - LEED Green Rater to assist with following items for inclusion in manuals:
 - guidance on occupants' activities and choices, including cleaning materials and methods, water-efficient landscaping, integrated pest management, effects of chemical fertilizers and pesticides, irrigation, lighting selection, and appliance selection;
 - information on local green power options; and
 - information on sharing utility data with USGBC via a USGBC-approved third party.
 - General Contractor to conduct a minimum one-hour walkthrough of the home with Owner and/or building manager. The walkthrough must feature the following:
 - identification of all installed equipment;
 - instruction in how to use and operate the equipment; and
 - information on its maintenance.

MR Prerequisite 1 – Certified Tropical Wood

- All wood in the building must be non-tropical, reused or reclaimed, or certified by the Forest Stewardship Council, or USGBC-approved equivalent.
- If tropical wood is used it must be FSC Certified. Provide vendor's chain-of-custody certificate number must be shown on any invoice that includes FSC-certified products.

MR Prerequisite 2 – Durability Management

- Meet the requirements of the ENERGY STAR for Homes, version 3, water management system builder checklist attached at end of this section.
- Install all the applicable indoor moisture control measures:
 - Areas directly above bathtub, spa, or shower (extending to ceiling), exposed wall or area behind fiberglass enclosure if wallboard is installed - Use non-paper-faced backer board or paper-faced product or ceiling over wallboard that meets standard ASTM D 3273 standard
 - Kitchen, bathroom, laundry room, spa area - Use water-resistant flooring; do not install carpet
 - Install water resistant flooring (not carpet) within 3 feet of exterior doors accessible from ground.
 - Tank water heater in or over living space - Install drain and drain pan, drain pan and automatic water shut-off or flow restrictor, or floor drain with floor sloped to drain.
 - Clothes washer (or condensing clothes dryer) in or over living space - Install drain and drain pan, drain pan and automatic water shut-off or flow restrictor, floor drain with floor sloped to drain, or braided washer hose.
 - Conventional clothes dryer - Exhaust directly to outdoors

MR Credit 1 – Durability Management Verification

- LEED verification team (Green Rater) to inspect and verify each measure listed in the ENERGY STAR for Homes, version 3, water management system builder checklist.
- Allow Green Rater access to the premise to inspect items in ENERGY STAR for Homes, version 3, water management system builder checklist.

MR Credit 2 – Environmentally Preferable Products

- Option 1 - Local Production - Use products that were extracted, processed, and manufactured locally within 100 miles of site and for the following components (at least 50% of the component). Contractor to provide documentation proving compliance with Environmentally Preferable Product requirements for the following products:
 - Aggregate for concrete and foundation
 - Option 2 - Environmentally Preferable Products -Use synthetic gypsum board products that contain at least 95% recycled content and non-synthetic gypsum board products that contain at least 10% post-consumer recycled content. Contractor to provide documentation proving compliance with Environmentally Preferable Product requirements for the following products:
 - Drywall, Interior Finish

MR Credit 4 – Material Efficient Framing

- Implement any of the following advanced framing techniques for at least 90% of each component.
 - Size headers for actual loads.
 - Use ladder blocking or drywall clips.
 - Use two-stud corners or California corners.
 - Space interior wall studs greater than 16 inches o.c.

EQ Prerequisite 1 – Ventilation

- Multifamily
- Local Exhaust
 - Design and install local exhaust systems in all bathrooms (including half-baths) and the kitchen to meet the requirements of ASHRAE Standard 62.2-2010, Sections 5 and 7 or local equivalent, whichever is more stringent. Provide minimum intermittent local exhaust flow rates of 100 cfm or 5ACH in kitchen, and 50 cfm in bathrooms.
 - Exhaust air to the outdoors. Do not route exhaust ducts to terminate in attics or interstitial spaces. Just recirculating range hoods or recirculating over-the-range microwaves do not satisfy the kitchen exhaust requirements.
 - Use ENERGY STAR-labeled bathroom exhaust fans in all bathrooms.
 - For exhaust hood systems capable of exhausting in excess of 400 cubic feet per minute (188 liters per second), provide makeup air at a rate approximately equal to the exhaust air rate. Makeup air systems must have a means of closure and be automatically controlled to start and operate simultaneously with the exhaust system.
 - Ventilation
 - Fresh air ventilation to dwelling units shall comply with ventilation requirements of ASHRAE 62.2-2010.
 - Do not use systems that rely on transfer air from pressurized hallways or corridors, adjacent dwelling units, attics, etc.
 - Project teams using exhaust-only ventilation systems must comply with flow rate required by ASHRAE 62.2-2010. If bathroom exhaust fan is used for exhaust-only fresh-air ventilation, then refer to HVAC drawings for exhaust fan run-time and controls. Coordinate continuous / intermittent fan run-time and controls with HVAC and Electrical contractor. Provide dual-speed bathroom exhaust fan with continuous speed set to 30 cfm in 1-Bedroom units, 45 cfm in 2-Bedroom units.
 - Continuous in-unit ventilation fans must be rated for sound at a maximum of 1.0 sone, per ASHRAE 62.2-2010, Section 7.2.1. Remote mounted fans need not meet these sound requirements.
 - Locate air inlets that are part of the ventilation design at least 10 feet (3 meters) from known sources of contamination, such as a stack, vent, exhaust hood, or vehicle exhaust. Place the intake such that entering air is not obstructed by snow, plantings, or other material. Forced air inlets must be covered by screens to exclude rodents and insects (mesh not larger than 1/2 inch or 13 millimeters).
 - For all non-unit spaces, meet the minimum requirements of ASHRAE Standard 62.1-2010 or local equivalent, whichever is more stringent, Sections 4-7. Ventilation for Acceptable Indoor Air Quality (with errata). Mechanically ventilated spaces must be designed using the ventilation rate procedure or the applicable local code, whichever is more stringent. Ventilation fans that penetrate rated assemblies may require radiation and fire dampers to meet local building and fire codes.

EQ Prerequisite 2 – Combustion Venting

- Do not install any unvented combustion appliances (ovens and ranges excluded).
- Install a carbon monoxide (CO) monitor on each floor, hard-wired with a battery backup. In multifamily buildings, install a CO monitor on each floor of each unit.
- For all fireplaces and woodstoves inside the building, provide doors that close or a solid glass enclosure. Interior fireplaces and woodstoves that are not closed-combustion or power-vented must pass BPI or RESNET combustion safety testing protocols to ensure that depressurization of the combustion appliance zone is less than 5 Pa.
- Space- and water-heating equipment that involves combustion must meet one of the following:
 - it must be designed and installed with closed combustion (i.e., sealed supply air and exhaust ducting);
 - it must be designed and installed with power-vented exhaust; or
 - it must be located in a detached utility building or open-air facility.

EQ Prerequisite 3 – Garage Pollutant Protection

- Place all air-handling equipment and ductwork outside the fire-rated envelope of the garage.
- Tightly seal shared surfaces between the garage and conditioned spaces, including all of the following:
 - In conditioned spaces above the garage, seal all penetrations and all connecting floor and ceiling joist bays.
 - In conditioned spaces next to the garage, weather-strip all doors, install carbon monoxide detectors in rooms that share a door with the garage, seal all penetrations, and seal all cracks at the base of the walls.

EQ Prerequisite 4 – Radon-Resistant Construction

- New Construction
- Provide a Passive or Active Radon Mitigation System per following requirements:
 - Install polyethylene sheeting or extruded polystyrene (XPS) insulation beneath concrete slabs, including basement floors. Ensure sheeting is in direct contact with the concrete slab above. Install a capillary break at air crawlspace floors using 2 mil polyethylene sheeting, lapped 6 to 12 in.
 - Under the polyethylene sheeting or extruded polystyrene (XPS) insulation installed to meet ENERGY STAR Water Management System Builder Checklist Item 1.3:
 - Install a 4 in. layer of 1/2 in. diameter or greater clean aggregate; OR
 - Install a 4 in. uniform layer of sand, overlain with either a layer of geotextile drainage matting throughout or strips of geotextile drainage matting along the perimeter installed according to the manufacturer's instructions.
 - A 3 or 4 in. diameter gas-tight vertical vent pipe, clearly labeled to conform with the radon-resistant standard used, e.g., "Radon Reduction System" or "Radon Pipe" or "Radon System." The vent pipe shall be connected to an open T-fitting in the aggregate layer (or connected to geotextile drainage matting according to the manufacturer's instructions) beneath the polyethylene sheeting, extending up through the conditioned spaces and terminating a minimum of 12 in. above the roof opening. For crawlspace, install at least 5 ft. of horizontal perforated drain tile on either side of the T-fitting, attached to the vertical radon vent pipe beneath the sheeting and running parallel to the long dimension of the house.
 - Radon fan installed in the attic (i.e., an active system) OR an electrical receptacle installed in an accessible attic location near the radon vent pipe (i.e., a passive system) to facilitate future fan installation if needed.
 - The requirements for radon protection are automatically satisfied if the building is elevated by at least 2 feet (600 millimeters), with open air space between the building and ground. An enclosed vented crawlspace does not qualify. A garage under a building is an acceptable alternative.
 - Foundation air sealing with polyurethane caulk or the equivalent at all slab openings, penetrations and control or expansion joints.

EQ Prerequisite 5 – Air Filtering

- Install air filters with a minimum efficiency reporting value (MERV) of 8 or higher on all recirculating space conditioning systems, per ASHRAE 62.2-2010. Design ductwork and specify the central blower to account for the pressure drop across the filter. Air filter housings must be airtight to prevent bypass or leakage.
- Non-ducted systems are exempt from the minimum MERV 8 requirements but must have an internal air filter in the air-handling unit.
- Install air filters rated MERV 6 or higher for mechanically supplied outdoor air for systems with 10 feet (3 meters) of ductwork or more, per ASHRAE 62.2-2010, Section 6.7.

EQ Prerequisite 6 – Environmental Tobacco Smoke

- Multifamily
- Provide signage to:
 - prohibit smoking in common areas,
 - prohibit smoking within 25 feet of building entrances,
 - or prohibit smoking on the entire property.

EQ Prerequisite 7 – Compartmentalization

- Compartmentalize each residential unit to minimize leakage between units. Minimize uncontrolled pathways for environmental tobacco smoke and other indoor air pollutants between units by sealing penetrations in walls, ceilings, and floors and by sealing vertical chases (including utility chases, garbage chutes, mail drops, and elevator shafts) adjacent to the units.
- Weather-strip all doors in the residential units leading to common hallways to minimize air leakage into the hallway. Weather-strip all exterior doors and operable windows to minimize leakage from outdoors.
- Demonstrate acceptable sealing of residential units by a blower door test. Follow the procedure described by RESNET or the ENERGY STAR Multifamily High Rise Program Testing and Verification Protocols, Version 1.0, with an allowable maximum leakage of 0.30 cfm50 per square foot (0.07 cmm50 per square meter) of enclosure (i.e., all surfaces enclosing the apartment, including exterior and party walls, floors, and ceiling) for new construction buildings.
- Third-party Testing is to be scheduled and conducted in conjunction with the final inspection. The contractor shall notify the Green Rater at least four (4) weeks prior to the anticipated date for such inspection. Contractor shall provide access to each unit and cooperate with conducting of the test. The following tests shall be conducted by Green Rater:
 - Air Infiltration Test (Blower door Test) – Mandatory – Measures air leakage through unit enclosure.

EQ Credit 1.1 (option 1) – Enhanced Ventilation - Enhanced Local Exhaust

- Use one of the following strategies in every bathroom with a shower, bathtub, or spa (i.e., half-baths are exempt) to control the use of the local exhaust fan:
 - an occupancy sensor;
 - an automatic humidistat controller;
 - a continuously operating exhaust fan, or
 - a delay timer that operates the fan for at least 20 minutes

EQ Credit 3.1 (option 1) – Balancing of H&C Distribution Systems - Multiple Zones

- Single-family houses with less than 800 square feet (74 square meters) of conditioned floor area and multifamily buildings whose average unit size is less than 1,200 square feet (110 square meters) automatically meet the requirements of this credit.

EQ Credit 3.3 (option 3) – Balancing of H&C Distribution Systems – Pressure Balancing

- Facilitate for Green Rater or a Third-Party to test each bedroom for pressure difference of more than 3 Pa (0.012-inch w.c.) with respect to the main body of the house when doors are closed, and the air handler is operating on highest speed.

EQ Credit 7 – Low Emitting Products

- In the interior of the home, use products that have been tested and found compliant with the California Department of Public Health Standard Method V.1-2010, using CA Section 01350, Appendix B, New Single-Family Residence Scenario, for emissions testing guidance. At least 90% of a component must meet the requirements to earn credit.
- For site-applied interior paints and coatings, meet the requirements of CA Section 01350.

TABLE 1. Acceptable certifications for emissions and content requirements		
CERTIFICATION	TESTING STANDARD REFERENCED IN LEED	APPLICABLE CATEGORIES
SCS Indoor Advantage Gold	CDPH Standard Method v1.1 ANS/BIFMA M71-2011	General Emissions Evaluation (many product categories), Furniture
FloorScore	CDPH Standard Method v1.1	Flooring
Carpet and Rug Institute (CRI) Green Label Plus	CDPH Standard Method v1.1	Carpeting, carpet padding, adhesives
Greenguard Children and Schools	CDPH Standard Method v1.1	General Emissions Evaluation (many product categories including exterior applied products)
Collaborative for High Performance Schools (CHPS)	CDPH Standard Method v1.1	General Emissions Evaluation (many product categories)
CARB ULEF label	N/A	Composite Wood
SCS calCOMPliant (if certificates indicate NAUF or ULEF requirements were achieved).	CARB ATCM 93120	Composite Wood

ENCLOSURES

- Low-Rise
Renovation & New Construction
- LEED for Homes Scorecard and Credit Categories
 - Energy Star National Rater Design Review Checklist
 - Energy Star National Rater Field Checklist
 - Energy Star National HVAC Design Report
 - Energy Star National HVAC Commissioning Checklist
 - Energy Star Water Management System Builder Checklist

END OF SECTION

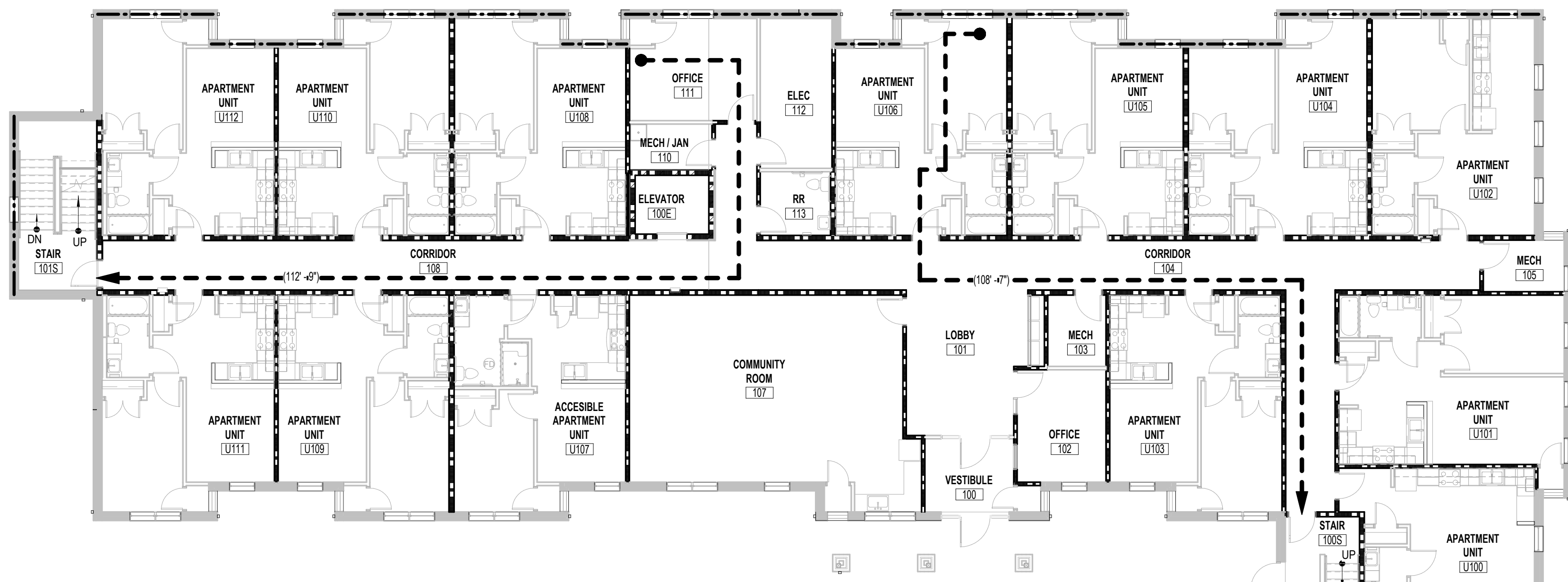


**GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES PSH**

NO.	DESCRIPTION	DATE
	PERMIT SET	04/13/23

LEED SPECIFICATIONS

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#	Name	Area	Gross or Net	Occ/SF	Persons
100	VESTIBULE	100 SF			
100E	ELEVATOR	60 SF			
100S	STAIR	188 SF			
101	LOBBY	227 SF			
101S	STAIR	179 SF			
102	OFFICE	138 SF	Gross	100 SF	2
103	MECH	58 SF	Gross	300 SF	1
104	CORRIDOR	401 SF			
105	MECH	58 SF	Gross	300 SF	1
106	CORRIDOR	150 SF			
107	COMMUNITY ROOM	723 SF	Net	15 SF	49
108	CORRIDOR	549 SF			
109	CORRIDOR	66 SF			
110	MECH/JAN	52 SF	Gross	300 SF	1
111	OFFICE	180 SF	Gross	100 SF	2
112	ELEC	149 SF	Gross	300 SF	1
113	RR	62 SF			
U100	APARTMENT UNIT	586 SF	Gross	200 SF	3
U101	APARTMENT UNIT	538 SF	Gross	200 SF	3
U102	APARTMENT UNIT	488 SF	Gross	200 SF	3
U103	APARTMENT UNIT	489 SF	Gross	200 SF	3
U104	APARTMENT UNIT	497 SF	Gross	200 SF	3
U105	APARTMENT UNIT	488 SF	Gross	200 SF	3
U106	APARTMENT UNIT	488 SF	Gross	200 SF	3
U107	ACCESSIBLE APARTMENT UNIT	485 SF	Gross	200 SF	3
U108	APARTMENT UNIT	488 SF	Gross	200 SF	3
U109	APARTMENT UNIT	486 SF	Gross	200 SF	3
U110	APARTMENT UNIT	487 SF	Gross	200 SF	3
U111	APARTMENT UNIT	491 SF	Gross	200 SF	3
U112	APARTMENT UNIT	490 SF	Gross	200 SF	3

CODE INFORMATION

APPLICABLE CODES

Building: Cincinnati Building Code
 2017 Ohio Building Code
 Fire Safety: Ohio Fire Code
 Mechanical: 2017 Ohio Mechanical Code
 Electric: 2017 National Electric Code
 Plumbing: Ohio Plumbing Code
 Accessibility: 2017 Ohio Building Code & 2009 ICC A117.1
 Zoning: Cincinnati Zoning Code
 Sustainability: LEED

BUILDING DEPARTMENT: City of Cincinnati, Ohio

Chapter 3
 Section 302: Classification R-2 Residential - Permanent Supportive Housing Apartments

Chapter 5
 Section 504: Building Height: Table 504.3 Allowable Height = 60'
 Proposed Height: 43' - 7'

Section 504: Building Number of Stories: Table 504.4 Stories above Grade Plane
 Allowable = 3 Stories. Proposed = 3 Stories (with story below grade)

Section 506: Building Area: Table 506.2 Allowable area per floor
 Allowable = 12,000 sf
 Proposed: Basement = 3,742 SF
 First Floor = 10,954 SF
 Second Floor = 10,954 SF
 Third Floor = 10,954 SF

Chapter 6
 Section 601 Construction Type: Type VA

Fire Resistance Rating Requirements for Building Elements: Table 601
 Primary Structural Frame: 1 Hour
 Bearing Walls Exterior: 1 Hour
 Bearing Walls Interior: 1 Hour
 Nonbearing Exterior Walls: 0 Hours
 Nonbearing Interior Walls: 0 Hours
 Floor Construction: 1 Hour
 Roof Construction: 0 Hours

Section 602 Construction Classification: Table 602 Fire-Resistance Rating Requirements for Exterior Walls Based on Fire Separation Distance
 1 Hour rated $S \times X < 30$ ft fire separation distance
 0 Hours rated $X \geq 30$ ft fire separation distance

Chapter 7
 Section 705.8 Exterior Wall Openings: Where exterior wall is 15 ft or less than 20 ft, openings are less than 25% of wall. All other walls with openings have no limit.

Section 708 Fire Partitions: Dwelling Unit Separation: Required 1 Hr; Provided 1 Hr
 Corridor Walls: Required 1 Hr; Provided 1 Hr

Section 711: Horizontal Assemblies between Dwelling Units: Required: 1 Hr; Provided: 1 Hr

Section 713: Shaft Enclosures: Shaft Enclosures: 1 Hour where connecting three stories
 2 Hours where connecting four stories

Chapter 9
 Section 903 Fire Suppression: NFPA 13R Fire Suppression will be provided throughout the building.

Section 906 Portable Fire Extinguishers: A portable Fire Extinguisher will be provided in each unit.

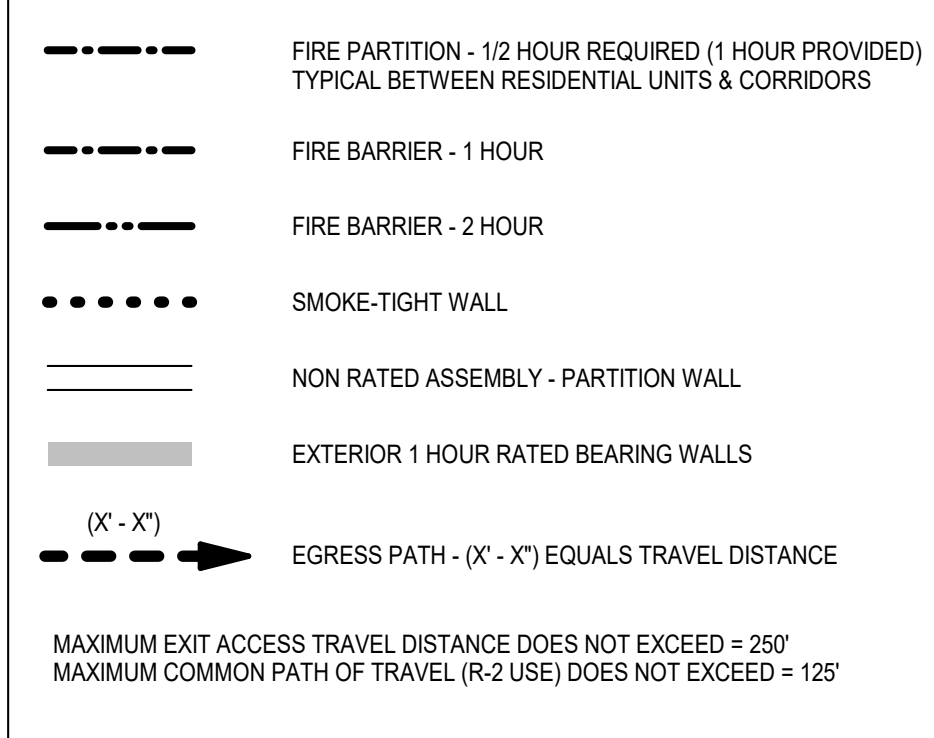
Section 907 Fire Alarm and Detection Systems: A fire alarm system will be provided throughout the building.

Section 907.2.11.7 Smoke Detection System: Smoke detectors listed in accordance with UL 268 and provided as part of the building fire alarm shall comply with the following requirements:
 1. The fire alarm system shall comply with all applicable requirements in Section 907.
 2. Activation of a smoke detector in a dwelling unit or sleeping unit shall initiate alarm notification in the dwelling unit or sleeping unit in accordance with Section 907.5.2
 3. Activation of a smoke detector in a dwelling unit or sleeping unit shall not activate alarm notifications outside of the dwelling unit or sleeping unit, provided that a supervisory signal is generated and monitored in accordance with Section 907.6.6

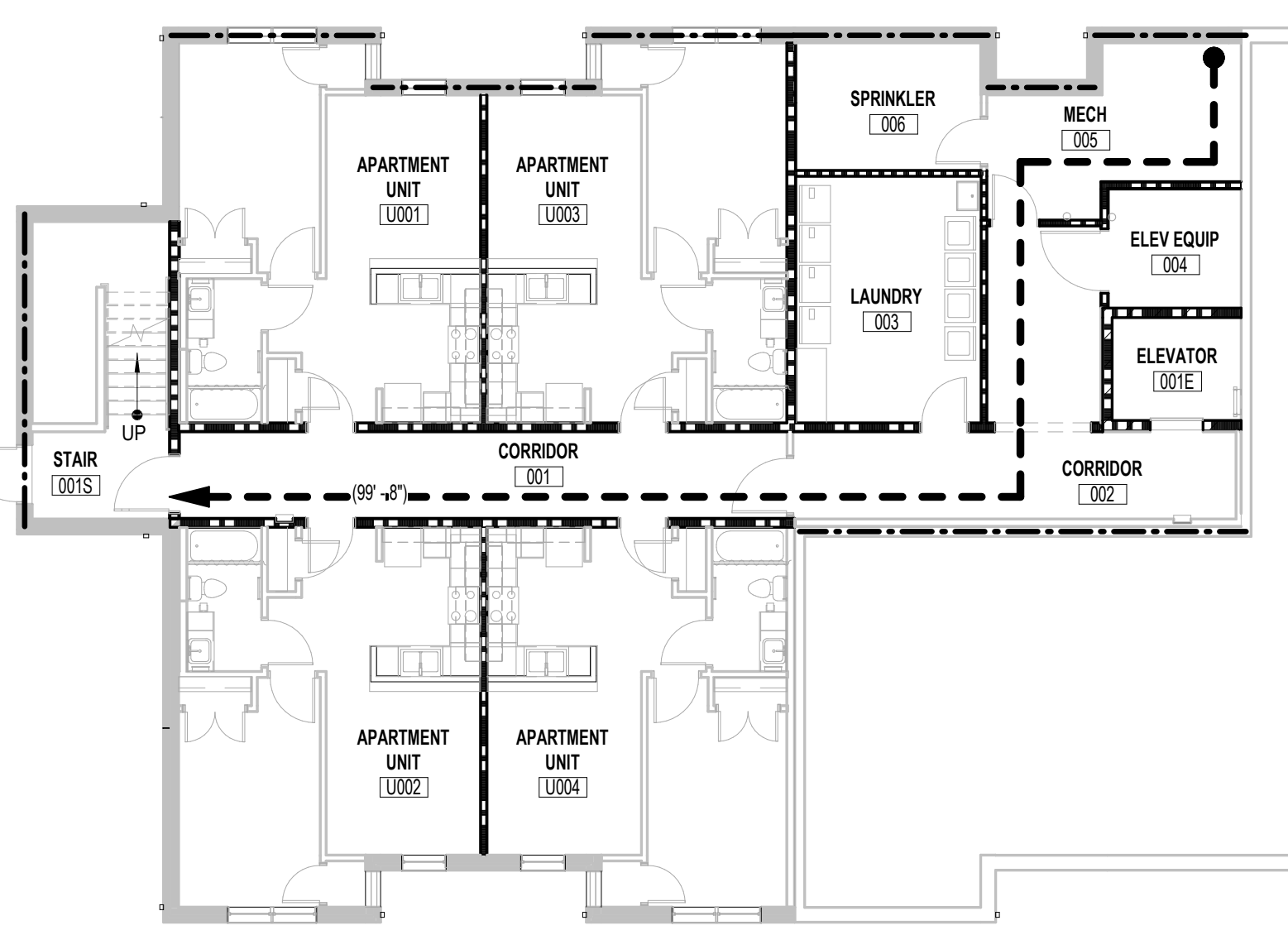
Chapter 10
 Table 1004.1.2, Occupant Load

MAGNETIC PLAN
3 LIFE SAFETY PLAN - FIRST FLOOR
 G100 SCALE: 3/32" = 1'-0"

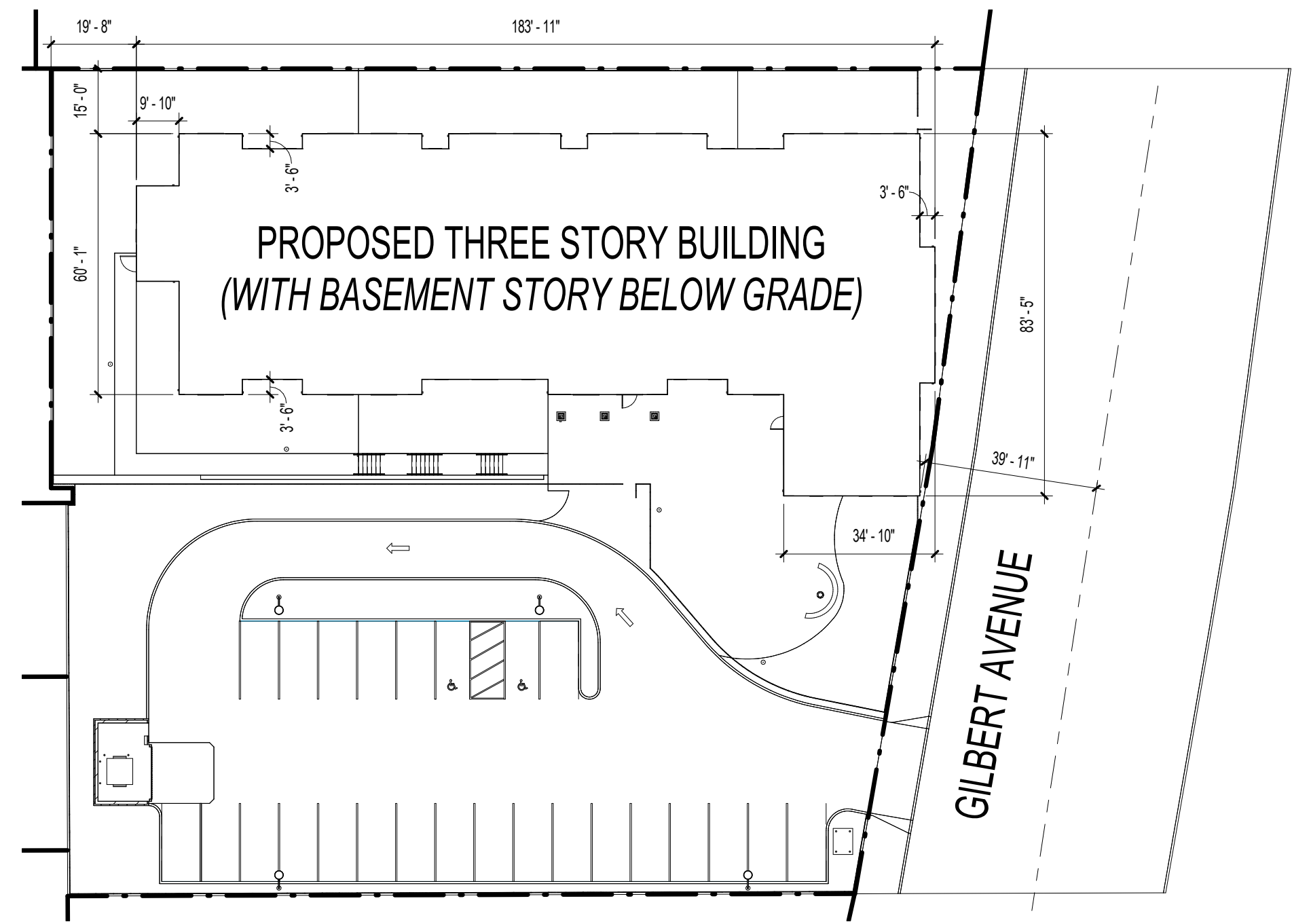
LIFE SAFETY PLAN LEGEND



#	Name	Area	Gross or Net	Occ/SF	Persons
001	CORRIDOR	237 SF			
001E	ELEVATOR	60 SF			
001S	STAIR	176 SF			
002	CORRIDOR	174 SF			
003	LAUNDRY	206 SF	Gross	300 SF	1
004	ELEV EQUIP	71 SF	Gross	300 SF	1
005	MECH	152 SF	Gross	300 SF	1
006	SPRINKLER	107 SF	Gross	300 SF	1
U001	APARTMENT UNIT	490 SF	Gross	200 SF	3
U002	APARTMENT UNIT	491 SF	Gross	200 SF	3
U003	APARTMENT UNIT	487 SF	Gross	200 SF	3
U004	APARTMENT UNIT	487 SF	Gross	200 SF	3



MAGNETIC PLAN
2 LIFE SAFETY PLAN - BASEMENT
 G100 SCALE: 3/32" = 1'-0"



MAGNETIC PLAN
1 CODE SITE PLAN
 G100 SCALE: 1" = 30'-0"

UNIT MATRIX:

NOTE: ACCESSIBLE UNITS ARE PROVIDED IN LIEU OF TYPE 'A' UNITS TO COMPLY WITH OHIO FINANCE AGENCY (OHFA) REQUIREMENTS FOR FUNDING

TOTAL UNITS = 49
 (THIRD FLOOR = 16)
 (SECOND FLOOR = 16)
 (FIRST FLOOR = 13)
 (BASEMENT = 4)

ACCESSIBLE 1 BEDROOM UNITS = 3
 (THIRD FLOOR = 1)
 (SECOND FLOOR = 1)
 (FIRST FLOOR = 1)
 (BASEMENT = 0)

SENSORY IMPAIRMENT 1 BEDROOM UNITS (TYPE 'B') = 2
 (THIRD FLOOR = 1)
 (SECOND FLOOR = 1)
 (FIRST FLOOR = 0)
 (BASEMENT = 0)

1 BEDROOM UNITS (TYPE 'B') = 44
 (THIRD FLOOR = 14)
 (SECOND FLOOR = 14)
 (FIRST FLOOR = 12)
 (BASEMENT = 4)

PARKING COUNTS:

PARKING SPACE REQUIRED:
 TRANSITIONAL HOUSING = 7
 (1 for every facility plus 1 for every 8 beds)
 TOTAL REQUIRED = 7

PARKING SPACES PROVIDED = 25
 ACCESSIBLE SPACES REQUIRED = 2
 ACCESSIBLE SPACES PROVIDED = 2

Section	Description	Value
Section 1005 Means of Egress Sizing:	Stairways: 0.2 inch / Occupant per 1005.3.1, Exception 1.	
	All other Egress Components: 0.15 inch / Occupant per 1005.3.2, Exception 1.	
	Section 1006 Number of Exits and Exit Access Doorways:	Per Table 1006.3.2(1) All units are being provided with a minimum of two exits.
	Section 1009 Accessible Means of Egress:	Elevators complying with Section 1009.4 are being provided.
Section 1023 Interior Exit Stairways and Ramps:	Stair Enclosures: 1 Hour where connecting three stories	
	2 Hours where connecting four stories	

906 MONMOUTH STREET
 NEWPORT, KY 41071
 www.PCA-ARCH.com
 859.431.8612



EMMA ADKISSON, LIC# 2118357
 EXPIRATION DATE 12/31/2023

GEIGER HOUSE FOR VETERANS / KLEKAMP FAMILY RESIDENCES PSH

2631 GILBERT AVE.
 Cincinnati, OH 45206

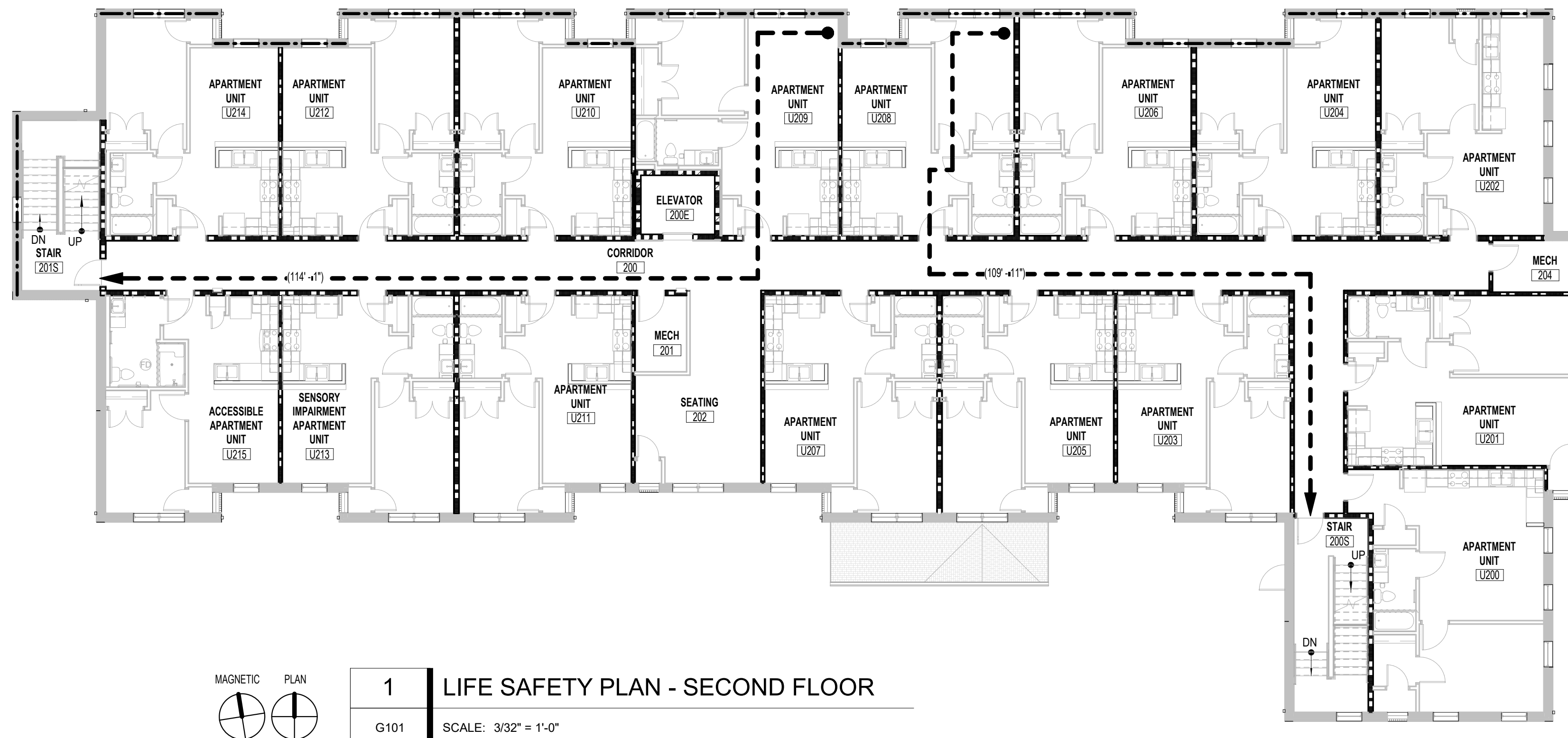
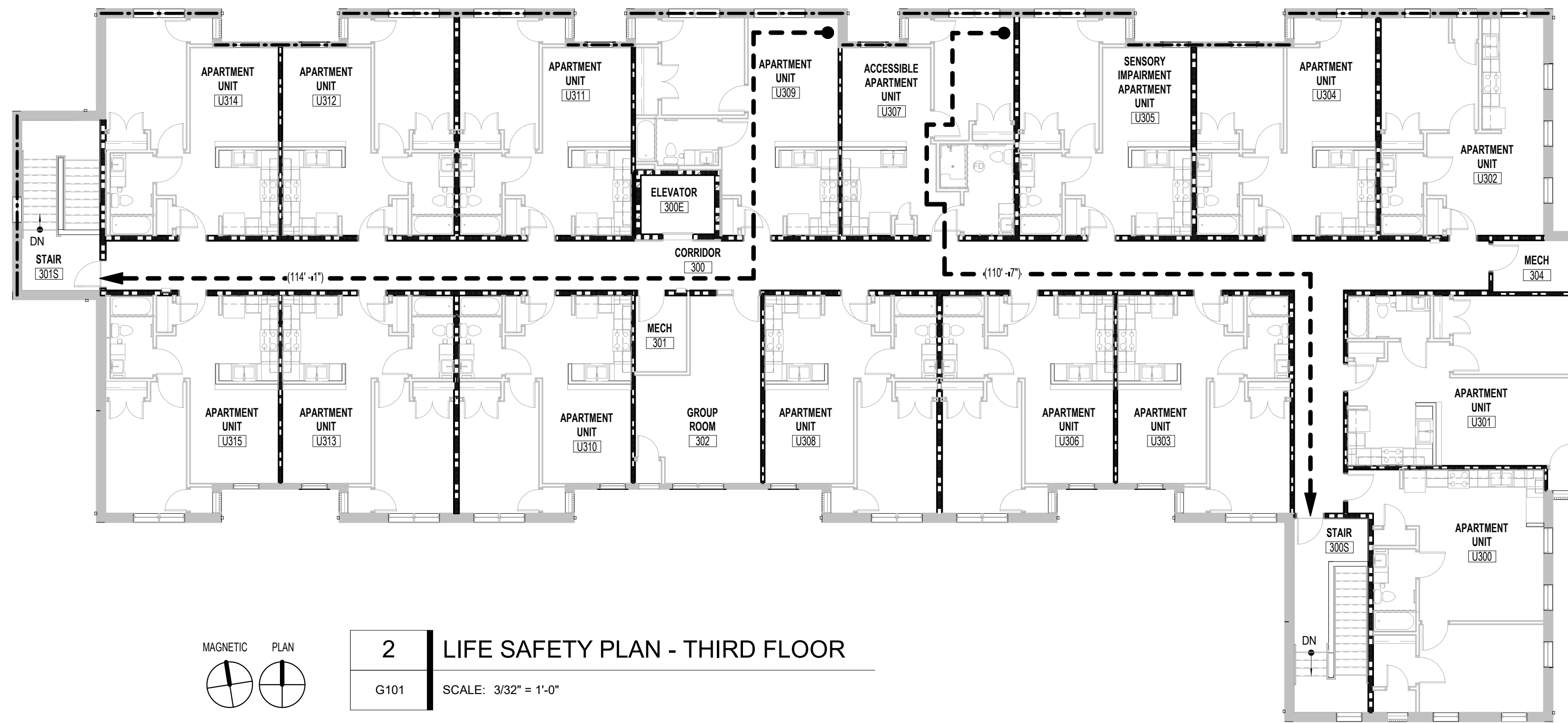
NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23
A	PERMIT REVISION	04/13/23
		05/23/23

CODE NOTES AND LIFE SAFETY PLANS

21-116

G100

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GENERAL NOTES - CODE PLAN

- A. ALL FIRE RATED PARTITIONS IN CORRIDORS, AROUND STAIRS CONNECTING 3-STORIES OR LESS, AND IN BETWEEN UNITS SHALL BE 5/8" TYPE "X" GYPSUM BOARD, EACH SIDE, OVER 2x4 OR 2x6 WOOD STUDS. (1) HOUR PER UL U327 OR U305
- B. ALL FIRE RATED PARTITIONS AROUND STAIRS CONNECTING 4-STORIES OR MORE SHALL BE TWO LAYERS 5/8" TYPE "X" GYPSUM BOARD, EACH SIDE, OVER 2x4 OR 2x6 WOOD STUDS. (2) HOURS PER UL U301
- C. ALL FIRE RATED ELEVATOR SHAFT WALLS SHALL BE 8" CMU AND RATED FOR (2) HOURS PER UL U905.
- D. FLOOR-CEILING ASSEMBLIES BETWEEN UNITS SHALL BE RATED FOR (1) HOUR PER UL U528

Area Based Occupant Load - 3rd Floor

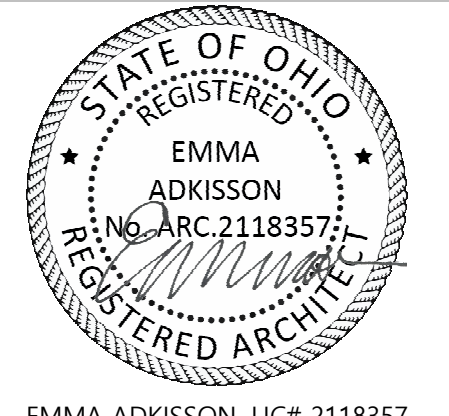
#	Name	Area	Gross or Net	Occ/SF	Persons
300	CORRIDOR	942 SF			
300E	ELEVATOR	60 SF			
300S	STAIR	189 SF			
301	MECH	54 SF	Gross	300 SF	1
301S	STAIR	178 SF			
302	GROUP ROOM	254 SF	Net	15 SF	17
303	CORRIDOR	152 SF			
304	MECH	58 SF	Gross	300 SF	1
U300	APARTMENT UNIT	566 SF	Gross	200 SF	3
U301	APARTMENT UNIT	538 SF	Gross	200 SF	3
U302	APARTMENT UNIT	488 SF	Gross	200 SF	3
U303	APARTMENT UNIT	489 SF	Gross	200 SF	3
U304	APARTMENT UNIT	497 SF	Gross	200 SF	3
U305	SENSORY IMPAIRMENT APARTMENT UNIT	488 SF	Gross	200 SF	3
U306	APARTMENT UNIT	486 SF	Gross	200 SF	3
U307	ACCESSIBLE APARTMENT UNIT	465 SF	Gross	200 SF	3
U308	APARTMENT UNIT	488 SF	Gross	200 SF	3
U309	APARTMENT UNIT	525 SF	Gross	200 SF	3
U310	APARTMENT UNIT	488 SF	Gross	200 SF	3
U311	APARTMENT UNIT	488 SF	Gross	200 SF	3
U312	APARTMENT UNIT	487 SF	Gross	200 SF	3
U313	APARTMENT UNIT	466 SF	Gross	200 SF	3
U314	APARTMENT UNIT	490 SF	Gross	200 SF	3
U315	APARTMENT UNIT	491 SF	Gross	200 SF	3
					67

LIFE SAFETY PLAN LEGEND

- FIRE PARTITION - 1/2 HOUR REQUIRED (1 HOUR PROVIDED) TYPICAL BETWEEN RESIDENTIAL UNITS & CORRIDORS
 - FIRE BARRIER - 1 HOUR
 - FIRE BARRIER - 2 HOUR
 - SMOKE-TIGHT WALL
 - NON RATED ASSEMBLY - PARTITION WALL
 - EXTERIOR 1 HOUR RATED BEARING WALLS
 - (X' - X') EGRESS PATH - (X' - X') EQUALS TRAVEL DISTANCE
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE DOES NOT EXCEED = 250'
 MAXIMUM COMMON PATH OF TRAVEL (R-2 USE) DOES NOT EXCEED = 125'

Area Based Occupant Load - 2nd Floor

#	Name	Area	Gross or Net	Occ/SF	Persons
200	CORRIDOR	945 SF			
200E	ELEVATOR	60 SF			
200S	STAIR	191 SF			
201	MECH	54 SF	Gross	300 SF	1
201S	STAIR	179 SF			
202	SEATING	256 SF	Net	15 SF	18
203	CORRIDOR	152 SF			
204	MECH	58 SF	Gross	300 SF	1
U200	APARTMENT UNIT	566 SF	Gross	200 SF	3
U201	APARTMENT UNIT	538 SF	Gross	200 SF	3
U202	APARTMENT UNIT	488 SF	Gross	200 SF	3
U203	APARTMENT UNIT	489 SF	Gross	200 SF	3
U204	APARTMENT UNIT	497 SF	Gross	200 SF	3
U205	APARTMENT UNIT	486 SF	Gross	200 SF	3
U206	APARTMENT UNIT	488 SF	Gross	200 SF	3
U207	APARTMENT UNIT	488 SF	Gross	200 SF	3
U208	APARTMENT UNIT	488 SF	Gross	200 SF	3
U209	APARTMENT UNIT	525 SF	Gross	200 SF	3
U210	APARTMENT UNIT	488 SF	Gross	200 SF	3
U211	APARTMENT UNIT	488 SF	Gross	200 SF	3
U212	APARTMENT UNIT	487 SF	Gross	200 SF	3
U213	SENSORY IMPAIRMENT APARTMENT UNIT	486 SF	Gross	200 SF	3
U214	APARTMENT UNIT	490 SF	Gross	200 SF	3
U215	ACCESSIBLE APARTMENT UNIT	488 SF	Gross	200 SF	3
					67



EMMA ADKISSON, LIC# 2118357
 EXPIRATION DATE 12/31/2023

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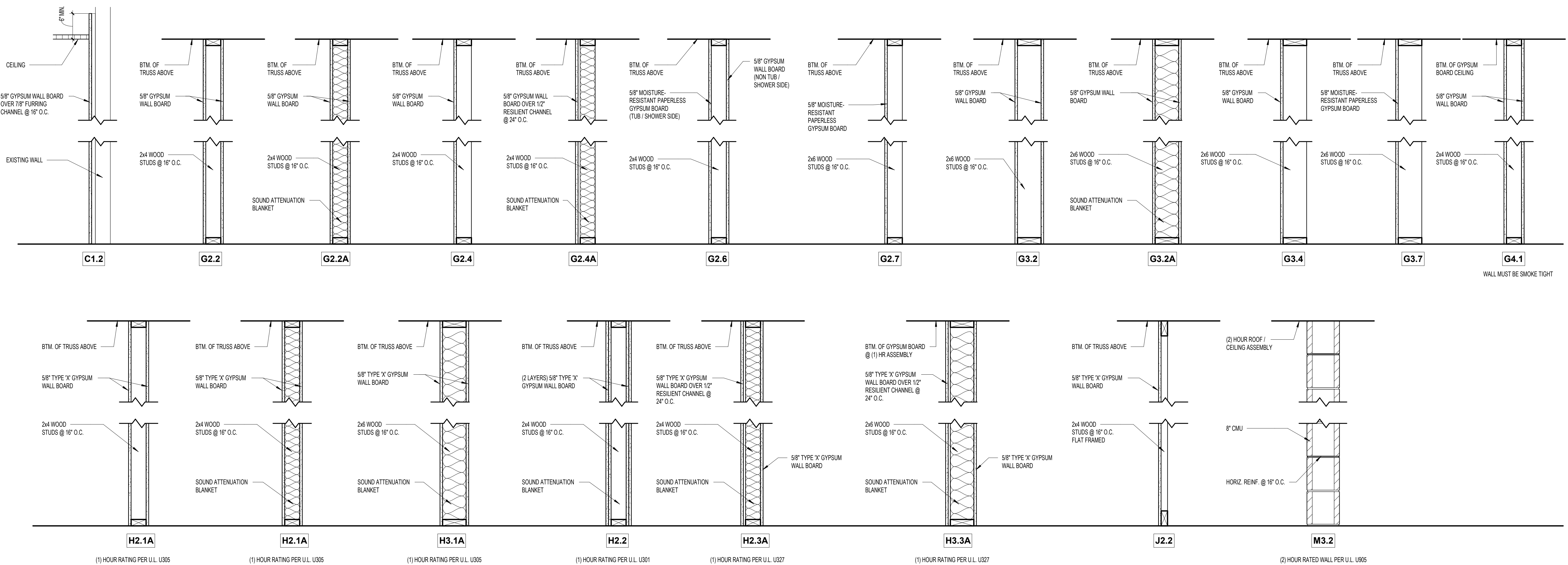
NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

LIFE SAFETY PLANS

21-116

G101

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1 WALL TYPE SECTIONS
G102 SCALE: 1" = 1'-0"

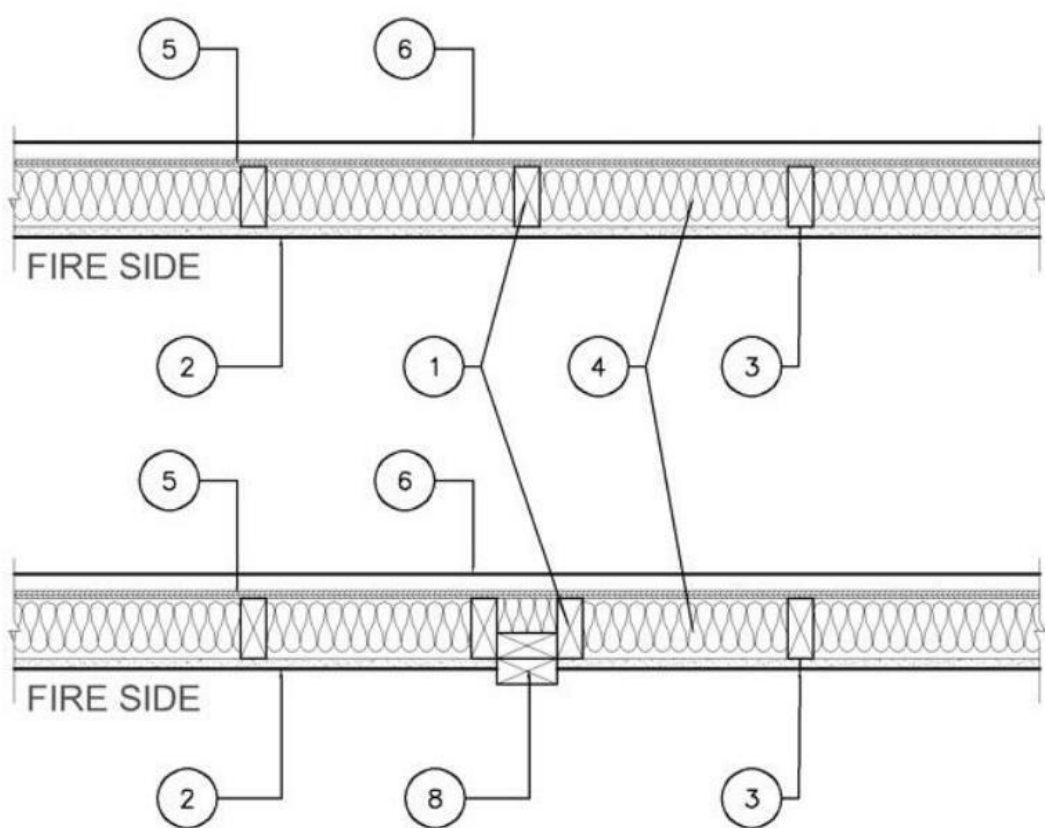
Design No. U356

October 07, 2020

Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Interior Face Only
Bearing Wall Rating — 1 Hr Rating Exposed to Fire on Exterior Face (See Item 6E)
Finish Rating — 23 Min or 25 Min (See Item 2C)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide [BXUV](#) or [BXUV7](#)

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Wood Studs** — Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally braced by wood structural panel sheathing (Item 5). When **Mineral and Fiber Boards** (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall.
2. **Gypsum Board** — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.

2A. **Gypsum Board** — (As an alternate to Item 2, Not Shown) — Any 5/8 in. thick 4 ft wide gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified Companies listed below shown in the **Gypsum Board** (CKNX) category. Applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

2B. **Gypsum Board** — (As an alternate to Item 2, Not Shown) — 5/8 in. thick 4 ft wide gypsum panels applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

2C. **Gypsum Board** — (As an alternate to Item 2, Not Shown) — For Use with Item 5A only - 5/8 in. thick 4 ft wide gypsum panels applied horizontally and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screws 1 in. and 4 in. from edges of board. Finish Rating is 25 min.

2D. **Gypsum Board** — (As an alternate to Item 2) — Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC.

2E. **Gypsum Board** — (As an alternate to Items 2 through 2D) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.

2F. **Gypsum Board** — (As an alternate to Item 2) — Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

2G. **Wall and Partition Facings and Accessories** — (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.

2H. **Gypsum Board** — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

2I. **Gypsum Board** — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

2J. **Gypsum Board** — (As an alternate to Item 2) - 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread steel screws spaced a max 8 in. OC with the last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum boards are to be installed horizontally.

3. **Joints and Fastener Heads** — (Not Shown) — Gypsum board joints covered with tape and joint compound. Fastener heads covered with joint compound.

4A. **Batts and Blankets** — Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 0.9 pcf. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal insulation rating).

4A. **Fiber, Sprayed** — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product.

4B. **Fiber, Sprayed** — As an alternate to Item 4 and 4A — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lb/ft³.

4C. **Fiber, Sprayed** — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.

4D. **Fiber, Sprayed** — As an alternate to Batts and Blankets (Item 4) — Spray applied, granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).

5. **Wood Structural Panel Sheathing** — Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.

5A. **Mineral and Fiber Boards** — As an alternate to Item 5 - Min 1/2 in. thick, 4 ft wide sheathing, installed vertically to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs. As an option a weather resistive barrier may be applied over the Mineral and Fiber Boards.

6. **Exterior Facings** — Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:

- A. **Vinyl Siding — Molded Plastic** — Contoured rigid vinyl siding having a flame spread value of 20 or less. See **Molded Plastic (BTAT)** category in the Building Materials Directory for names of manufacturers.
- B. **Particle Board Siding** — Hardboard exterior sidings including patterned panel or lap siding.
- C. **Wood Structural Panel or Lap Siding** — APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.
- D. **Cementitious Stucco** — Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.

E. **Brick Veneer** — Any type on nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 8d nail per tie; ties spaced not more than each sixth course of brick and max 32 in. OC horizontally. One in. air space provided between brick veneer and sheathing.

F. **Exterior Insulation and Finish System (EIFS)** — Nom 1 in. **Foamed Plastic** insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions. See **Foamed Plastic (BRYX and CCVW)** categories for names of Classified companies.

G. **Siding** — Aluminum or steel siding attached over sheathing to studs.

H. **Fiber-Cement Siding** — Fiber-cement exterior sidings including smooth and patterned panel or lap siding.

I. **Wall and Partition Facings and Accessories** — Stone veneer is mortar bonded to a lath, scratch coat and water resistant barrier applied to sheathing, installed in accordance with the manufacturers installation instructions, and meeting the requirements of local code agencies.

J. **Cementitious Backer Units** — 1/2 in. or 5/8 in., min. 32 in. wide - Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum 3/4 in., spaced a max of 8 in. OC. Horizontal joints need not be backed by framing. When Cementitious Backer Units are used, the rating is applicable with exposure on either face. Cementitious Backer Units for use as substrate for exterior finishes such as ceramic tile, slate, marble, natural stone, manufactured stone, thin brick, or Portland cement or synthetic stucco.

6A. **Building Units** — As an alternate to **Exterior Facing Item 6** — Insulated steel panels, 12 through 42 in. wide. Attached over sheathing through retainer clips to studs or support steel with No. 14 hex head self-tapping screws located at each joint in the concealed lip of the units and spaced in accordance with the structural design requirements. KINGSPAN INSULATED PANELS INC — Types 200, 300, 400, 900, or KS series, 2 through 6 in. thickness; CWP-V, H, 2 through 3 in. nominal thickness or Designwall 2000 or Designwall 4000, 2 and 3 in. nominal thickness.

8. **Non-Bearing Wall Partition Intersection** — (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

[Last Updated](#) on 2020-10-07



EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

**GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES PSH**

2631 GILBERT AVE.
Cincinnati, OH 45206

NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

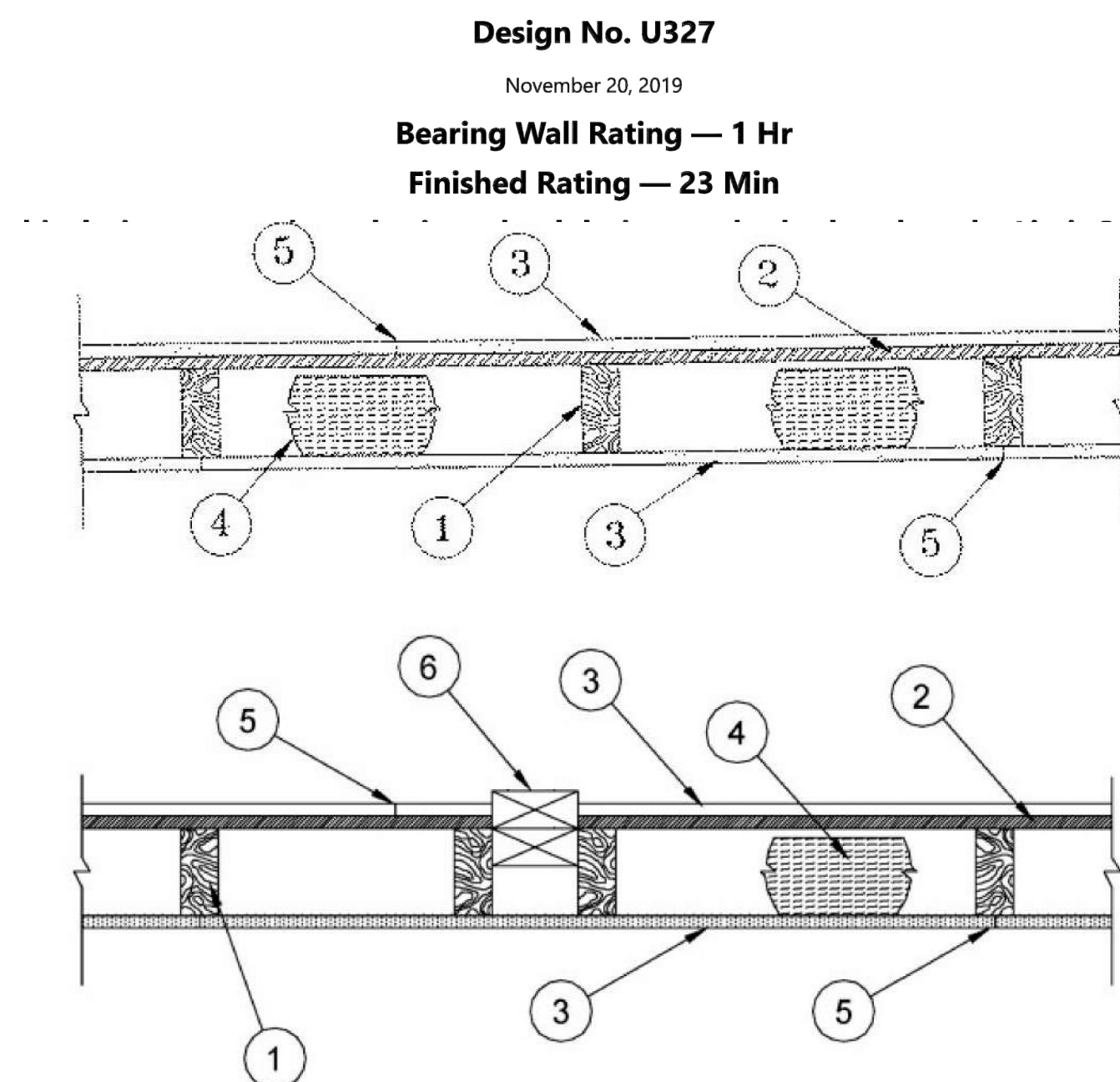
WALL TYPES AND UL ASSEMBLIES

21-116

G102

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PCA ARCHITECTURE P.C. AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT, WITHOUT THE WRITTEN AUTHORIZATION OF PCA ARCHITECTURE P.C. COPYRIGHT 1986-2021; PCA ARCHITECTURE P.C., ALL RIGHTS RESERVED.

ONE HOUR WALL ASSEMBLY: U.L. #U327



- Design No. U327**
November 20, 2019
- Bearing Wall Rating — 1 Hr**
Finished Rating — 23 Min
- Wood Studs** — Nom 2 by 4 in. spaced 16 or 24 in. OC. Effectively cross braced.
 - Furring Channel** — Resilient, 25 MSG galv steel. Furring channels spaced vertically 24 in. OC. Flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws.
 - Gypsum Board*** — 5/8 in. thick, 4 ft wide applied vertically. Screw attached one side to furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs. Wallboard attached on other side directly to studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws spaced 12 in. OC, vertical joints located over studs.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc
 - Batts and Blankets*** — 3-1/2 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4 in. face of the studs with staples placed 24 in. OC.
ROCKWOOL — Type SAFESOUND
 - Joints and Screw Heads** — Gypsum board joints covered with paper tape and joint compound. Screw heads covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.
- CGC INC** — Types C, SCX, SHX, FRX-G, IP-X1, IP-X2, IPC-AR, ULIX, ULX
- PANEL REY S A** — Type PRX
- UNITED STATES GYPSUM CO** — Types C, SCX, SHX, ULIX, ULX, FRX-G, IP-X1, IP-X2, IPC-AR
- THERMAFIBER INC** — Type SAFB, SAFB FF
- 4A. Glass Fiber Insulation** — (As an alternate to Item 4) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

GA FILE NO. RC 2601	GENERIC	1 HOUR FIRE
GYPSUM WALLBOARD, WOOD JOISTS, ROOF COVERING		
<p>Base layer 5/8" type X gypsum wallboard applied at right angles to 2 x 10 wood joists 24" o.c. with 1 1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to joists with 1 1/8" Type W or S drywall screws 12" o.c. at joints and intermediate joints and 1 1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood joists supporting 1/2" plywood with exterior glue applied at right angles to joists with 8d nails. Appropriate roof covering. Ceiling provides one hour fire resistance protection for framing, including trusses.</p>		
		<p>Approx. Ceiling Weight: 5 psf Fire Test: FM FC 172, 2-25-72; ITS, 8-6-98</p>

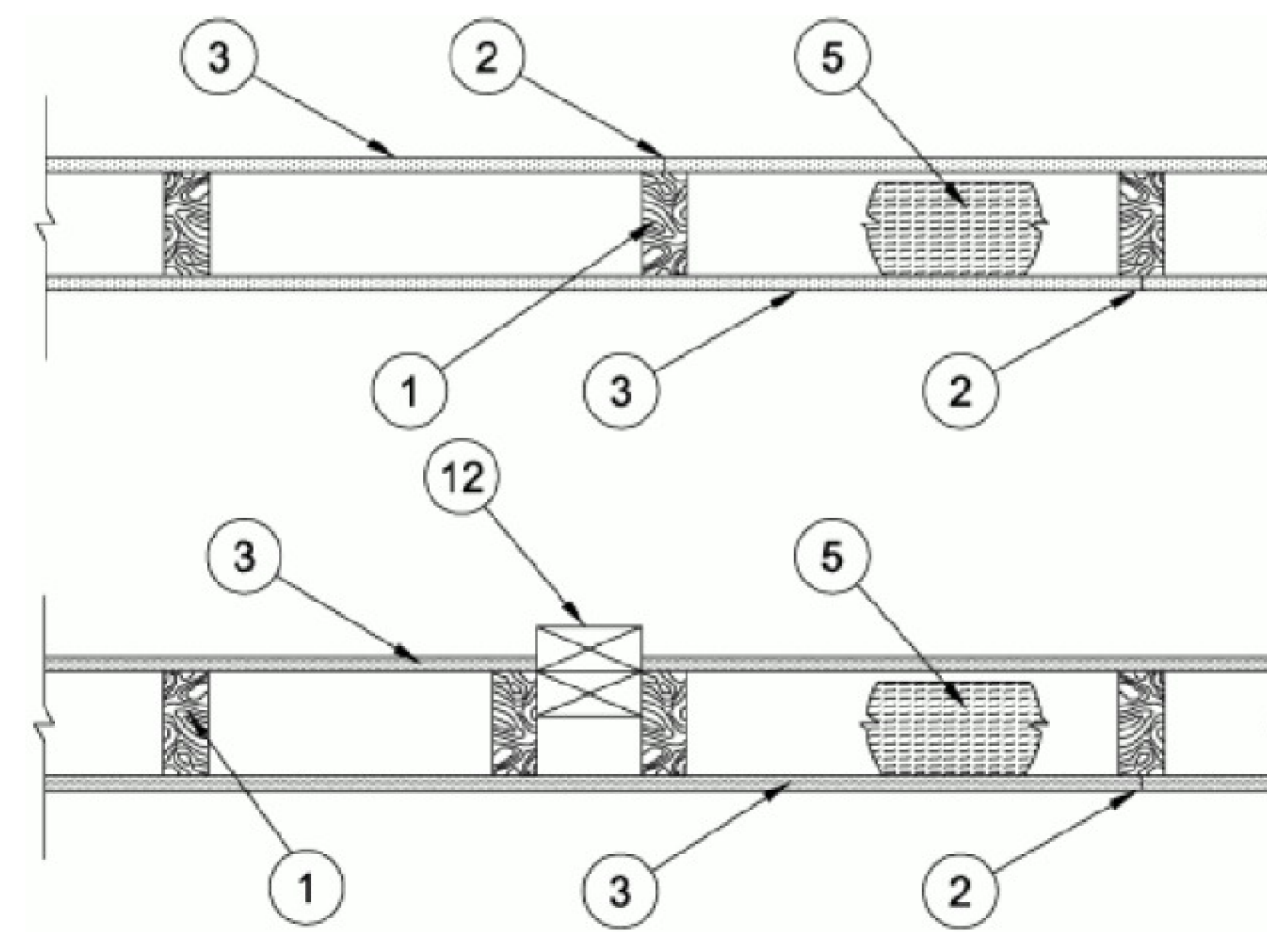
FM FC-172			
4	1 hr.	<p>FM GA GA GA</p> <p>FC-172 FC 5406 RC 2601 RC 2602</p> <p>Base layer 5/8" (15.9 mm) Fire-Shield Wallboard attached with screws 24" o.c. (610 mm) to wood joists or trusses 24" o.c. (610 mm). Second layer 5/8" (15.9 mm) Fire-Shield Wallboard or 5/8" (15.9 mm) F.S. Soffit Board screw attached 12" o.c. (305 mm). 1/2" (12.7 mm) plywood floor. Ceiling provides one hour fire resistance protection for wood framing.</p>	
UL L505			
5	2 hr.	<p>UL GA</p> <p>L505 FC 5724</p> <p>5/8" (15.9 mm) Fire-Shield C Gypsum Wallboard, base layer nailed at right angles to 2 x 10 (38 mm x 241 mm) wood joists spaced 16" o.c. (406 mm), resilient furring channels spaced 24" o.c. (610 mm) and nailed through base board into and at right angles to joists. Face layer of 5/8" (15.9 mm) Fire-Shield C board screwed to furring channel. Nominal 1" (25.4 mm) T & G sub and finish floor. Optional floor systems consist of Floor Topping Mixture over plywood. Rating also applies with 5/8" (15.9 mm) Fire-Shield C Kal-Kore plaster base.</p>	est. 45

Design No. **U305**
May 27, 2022

Bearing Wall Rating — 1 Hr
Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L
STC Rating - 56 (See Item 9)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV** or **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



- Wood Studs** — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.
- Joints and Nail-Heads** — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.
- Gypsum Board*** — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F, **Steel Framing Members***.
When Items 6, 6B, 6C, 6D, 6E, or 6F, **Steel Framing Members***, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.
When Item 6A, **Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.
When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

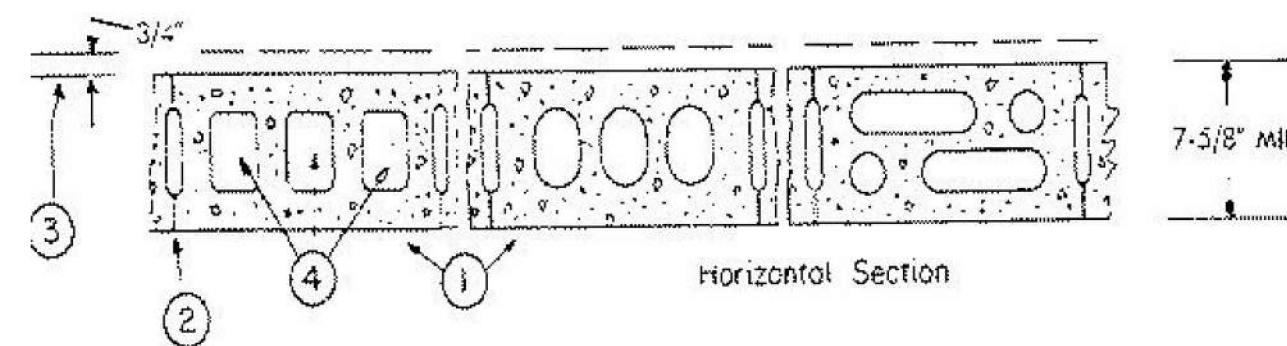
TWO HOUR WALL ASSEMBLY: U.L. #U905

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV** or **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

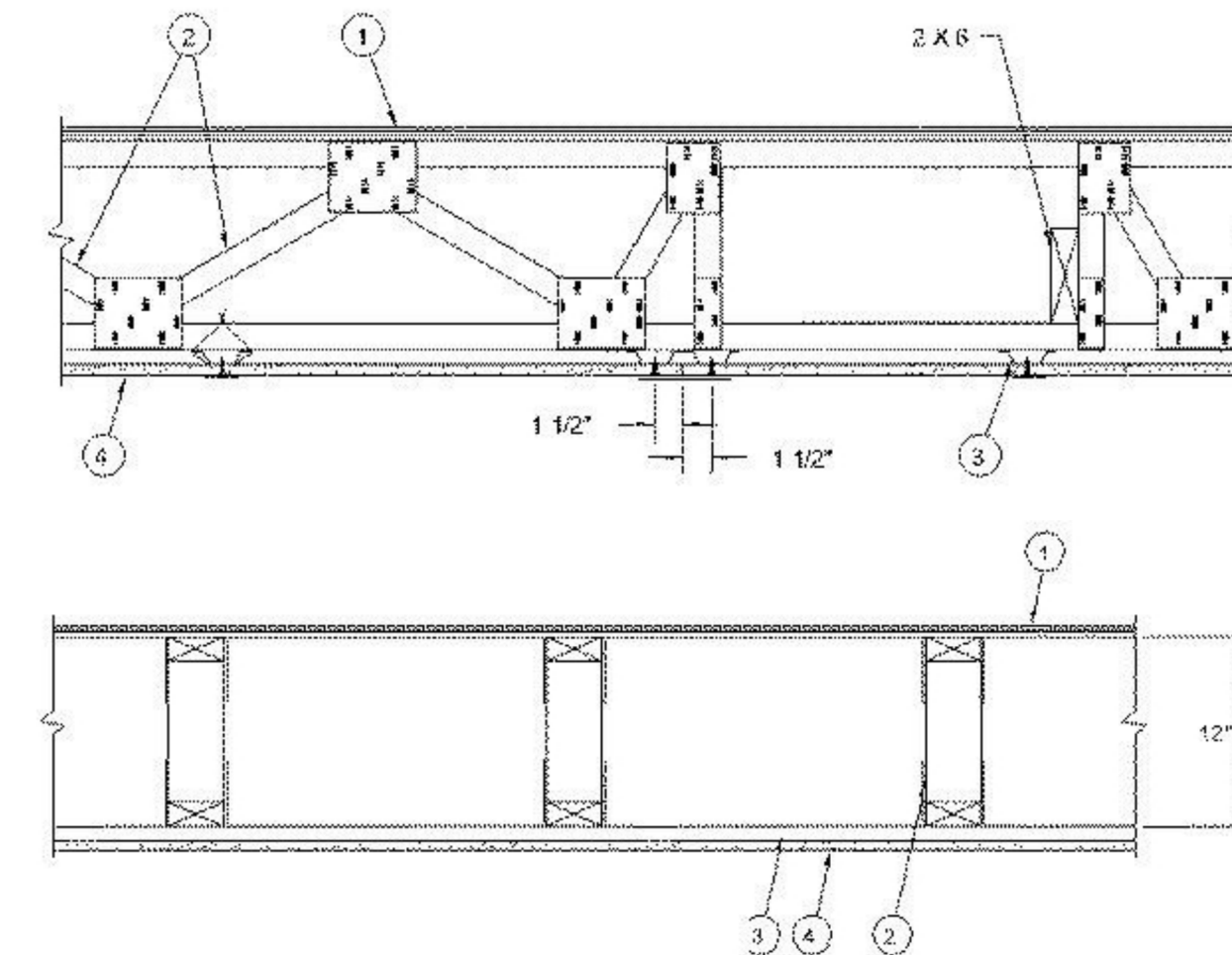


See **Concrete Blocks** category for list of eligible manufacturers.

- Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
- Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).
- Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

Design No. **L528**
November 12, 2020

Unrestrained Assembly Rating - 1 Hr.
Finish Rating - 22 Min.



1. **Flooring System** — The flooring system shall consist of one of the following:

System No. 2

- Subflooring** — Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP® nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
- Vapor Barrier** — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
- Vapor Barrier** — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.
- Finish Flooring** — Min 3/4 in. thickness of lightweight insulating concrete with **Perlite Aggregate*** or **Vermiculite Aggregate***, or gypsum concrete.
- See **Perlite Aggregate** (CFFX) and **Vermiculite Aggregate** (CJZZ) categories for names of manufacturers.

- Trusses** — Parallel chord trusses, spaced a max 24 in. OC, fabricated from nom 2 by 4 in. lumber with lumber oriented vertically or horizontally. Min truss depth is 12 in. when item 9 is not employed. Min truss depth is 18 in. when item 9 is employed. Truss members secured together with min No. 20 MSG galv steel truss plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split-tooth-type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx 7/8 in. centers with four rows of teeth per in. of plate width.
- Furring Channels** — Furring channels, 7/8 in. deep by 2-9/16 in. or 2-11/16 in. or 2-23/32 in. wide at the base and 1-7/16 in. wide at the face, formed from No. 25 ga galv steel, spaced 24 in. OC perpendicular to trusses. Channels secured to trusses with double strand of No. 18 SWG galv steel wire spaced 48 in. OC. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two furring channels used at end joints of gypsum board (Item 4), each extending a min of 6 in. beyond both side edges of the board.
- 3A. Resilient Channels** — (Not Shown) — As an alternate to Item 3, resilient channel formed from No. 26 MSG galv steel, spaced 16 in. OC perpendicular to trusses. Channels secured to each truss with 1-1/4 in. long No. 6 Type S bugle head steel screw. Channels overlapped at splices 4 in. Two resilient channels used at end joints of gypsum board (Item 4), each extending a min of 6 in. beyond both side edges of the board.
- Gypsum Board*** — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to furring or resilient channels. Gypsum board secured with 1 in. long No. 6 Type S bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. End joints secured to both resilient channels as shown in the end joint detail.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTED GYPSUM INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types S, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C, FSW-G

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

PCA
ARCHITECTURE

906 MONMOUTH STREET
NEWPORT, KY 41071
www.PCA-ARCH.com
859.431.8612



EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

**GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES PSH**

2631 GILBERT AVE.
Cincinnati, OH 45206

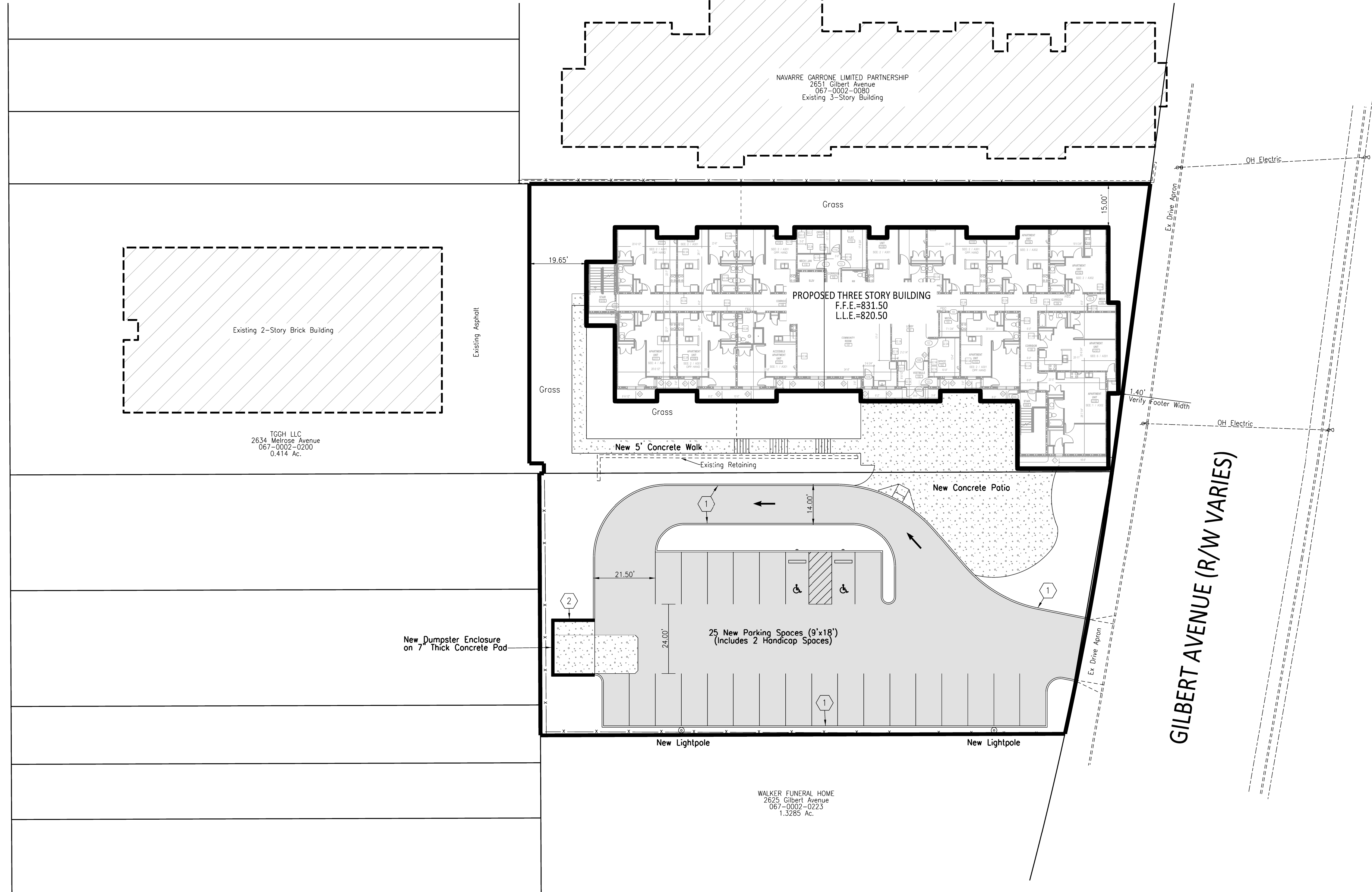
NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

UL ASSEMBLIES

21-116

G103

MELROSE AVENUE (60' R/W)



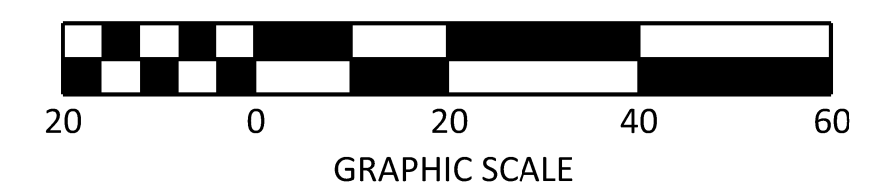
GENERAL NOTES:

- A. ENGINEER/OWNER/CLIENT shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by the Contractor.
- B. CIVIL ENGINEER of record (Steve Stewart 513.616.9694) shall field verify design intent of proposed grade stakes prior to construction.
- C. The locations of the underground facilities shown on this plan are based on field surveys and local utility company records. The engineer does not guarantee their accuracy. The contractor shall field verify locations with utility companies prior to any field work. The contractor is solely responsible for verifying all existing utility locations.
- D. All site work shall be completed in accordance with the latest addition of "State of Ohio Department of Transportation Construction and Material Specifications", City of Cincinnati's "2008 City Supplement to ODOT".
- E. Contractor to install all erosion control measures as required by Local & State regulations prior to any earth moving activities.

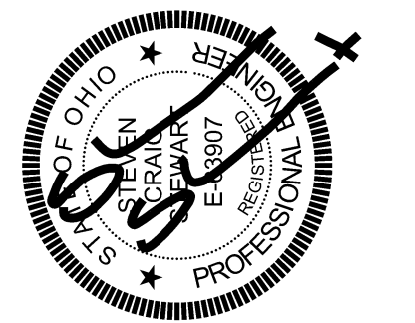
NOTES THIS DRAWING:

- 1. New 18" Concrete Barrier Curb. See Detail on Sheet C-003.
- 2. New Poured Concrete Retaining Wall - See Structural Plans (Design and Permit by Others)

Light Duty Asphalt Pavement Section (SN=2.78):
 1.5" - ODOT Item 441 Asphalt Concrete Surface Course, Type 1 (448), PG 64-22
 4.0" - ODOT Item 441 Asphalt Concrete Intermediate Course, Type 2 (448), PG 64-22
 6.0" - ODOT Item 304 Limestone Aggregate Base
 ODOT Item 204 - Subgrade Compaction



NO.	DATE	DESCRIPTION	BY
01	04-23	80% OHPA REVIEW	
04	13-23	PERMIT SET	



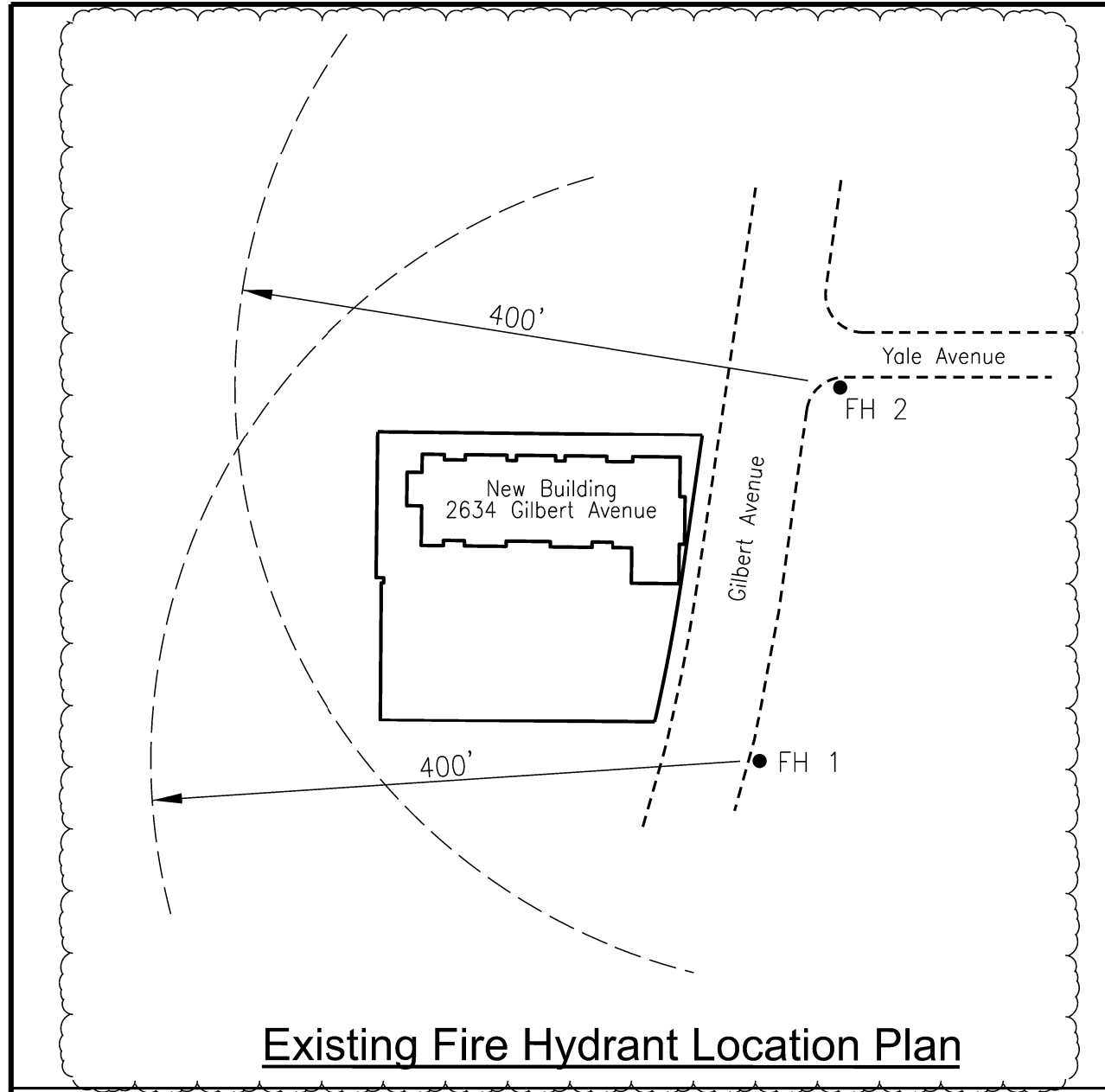
OVERALL SITE PLAN
 for
Geiger House for Veterans/Klekamp Family Residences
 2631 Gilbert Avenue
 Auditor Parcel: 067-0002-0078 & 0079
 City of Cincinnati
 Hamilton County, Ohio

TALBERT SERVICES
 2600 Victory Parkway
 Cincinnati, Ohio 45206

modelgroup

genesis design llc
 Cincinnati, Ohio - (513) 616-9694 - email: genesisdesignllc@gmail.com

SHEET TITLE	
OVERALL SITE PLAN	
DESIGNED	S.C.S.
DRAWN	F.O.S.
CHECKED	S.C.S.
DATE	December 2022
JOB NO.	
SHEET NO.	C-02



GENERAL NOTES:

- A. ENGINEER/OWNER/CLIENT shall not be responsible for the means, methods, techniques, sequences or procedures of construction selected by the Contractor.
- B. CIVIL ENGINEER of record (Steve Stewart 513.616.9694) shall field verify design intent of proposed grade stakes prior to construction.
- C. The locations of the underground facilities shown on this plan are based on field surveys and local utility company records. The engineer does not guarantee their accuracy. The contractor shall field verify locations with utility companies prior to any field work. The contractor is solely responsible for verifying all existing utility locations.
- D. All site work shall be completed in accordance with the latest addition of "State of Ohio Department of Transportation Construction and Material Specifications", City of Cincinnati's "2008 City Supplement to ODOT".
- E. Contractor to install all erosion control measures as required by Local & State regulations prior to any earth moving activities.

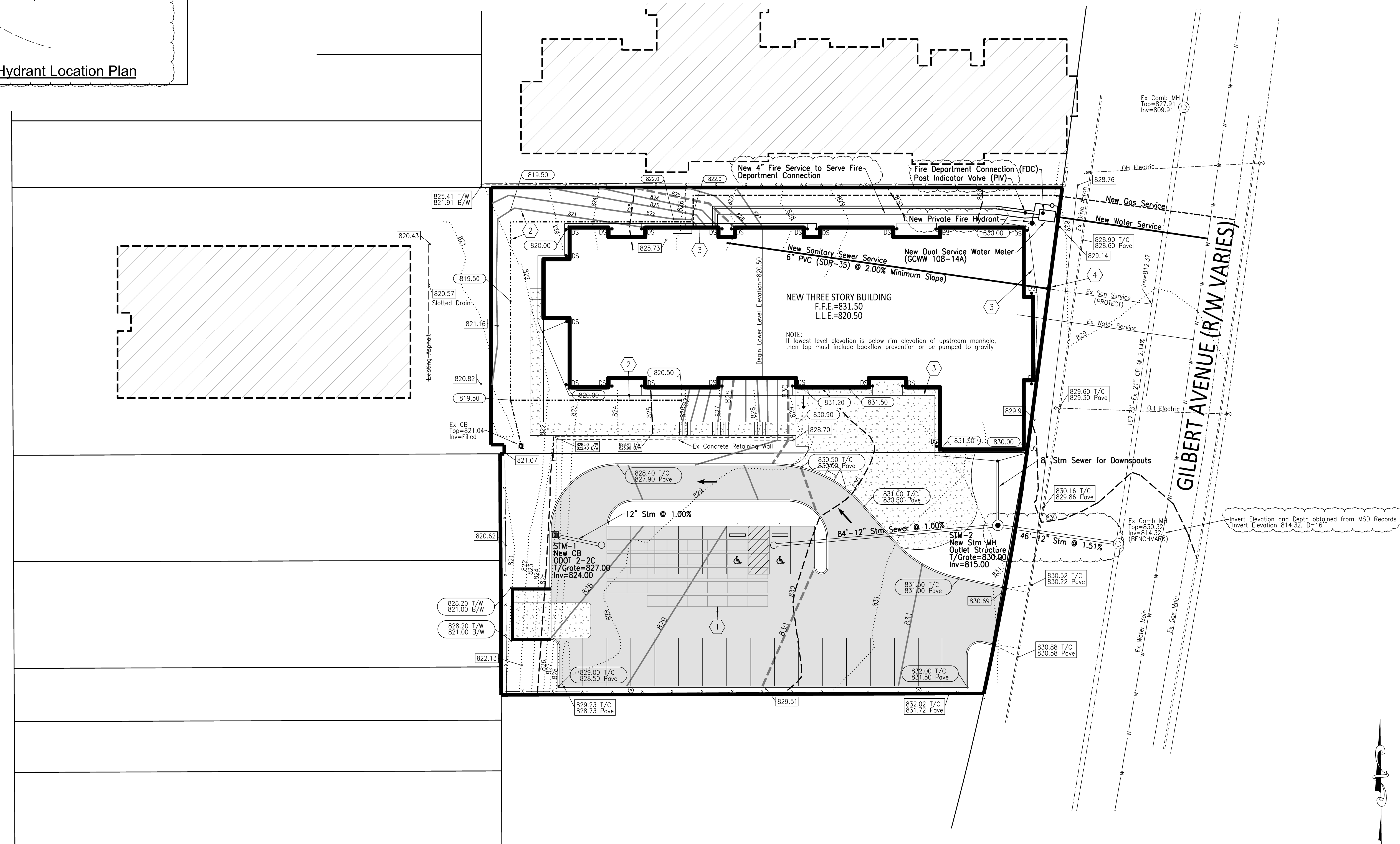
NOTES THIS DRAWING:

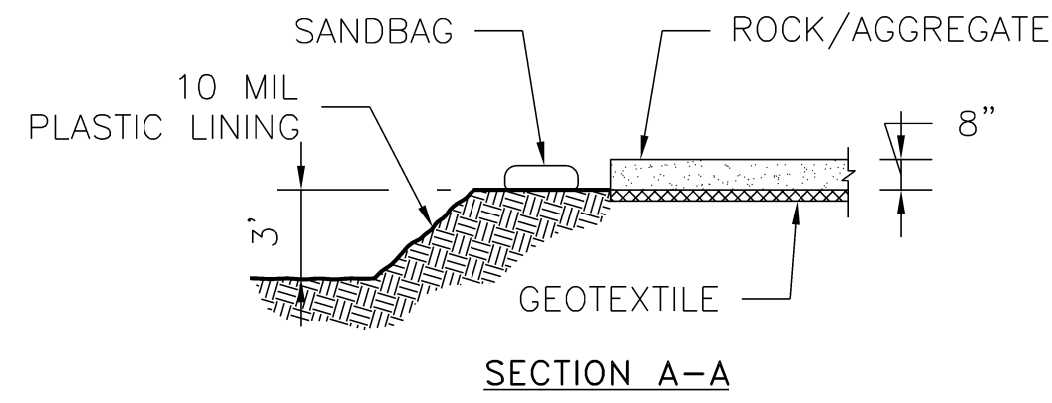
- 1. New Underground Detention, StormTech SC-740 Chambers (12" Granular Base), 4,268 cf of Storage (43 Chambers)
- 2. New 4" Underdrain - See Detail on Sheet C-04.
- 3. New 6" Storm Sewer (PVC) @ 1.00% Minimum Slope.
- 4. New 6" Sanitary Sewer Cleanout - FIELD VERIFY EXISTING INVERT.

675.47 - Denotes Existing Elevation
 685.00 F/G - Denotes Proposed Elevation

MELROSE AVENUE (60' R/W)

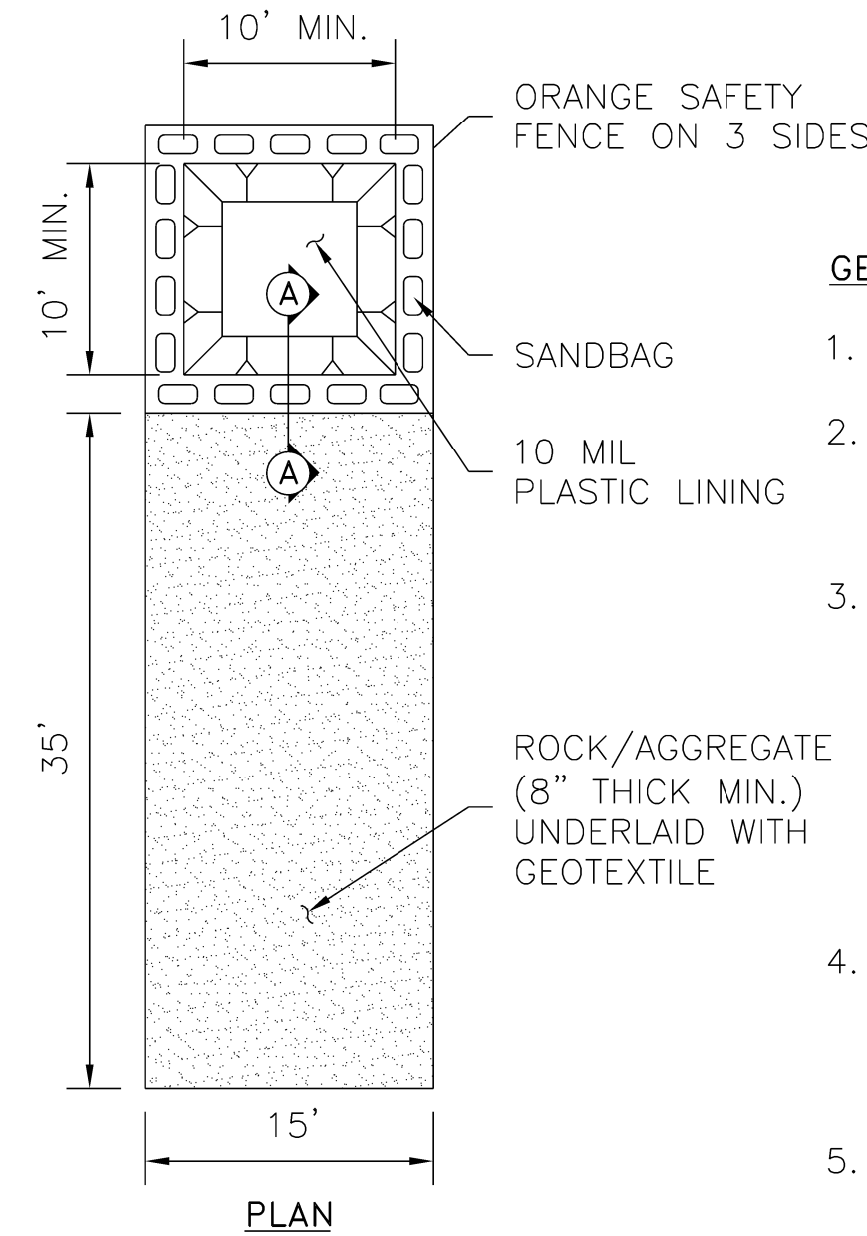
GILBERT AVENUE (R/W VARIES)





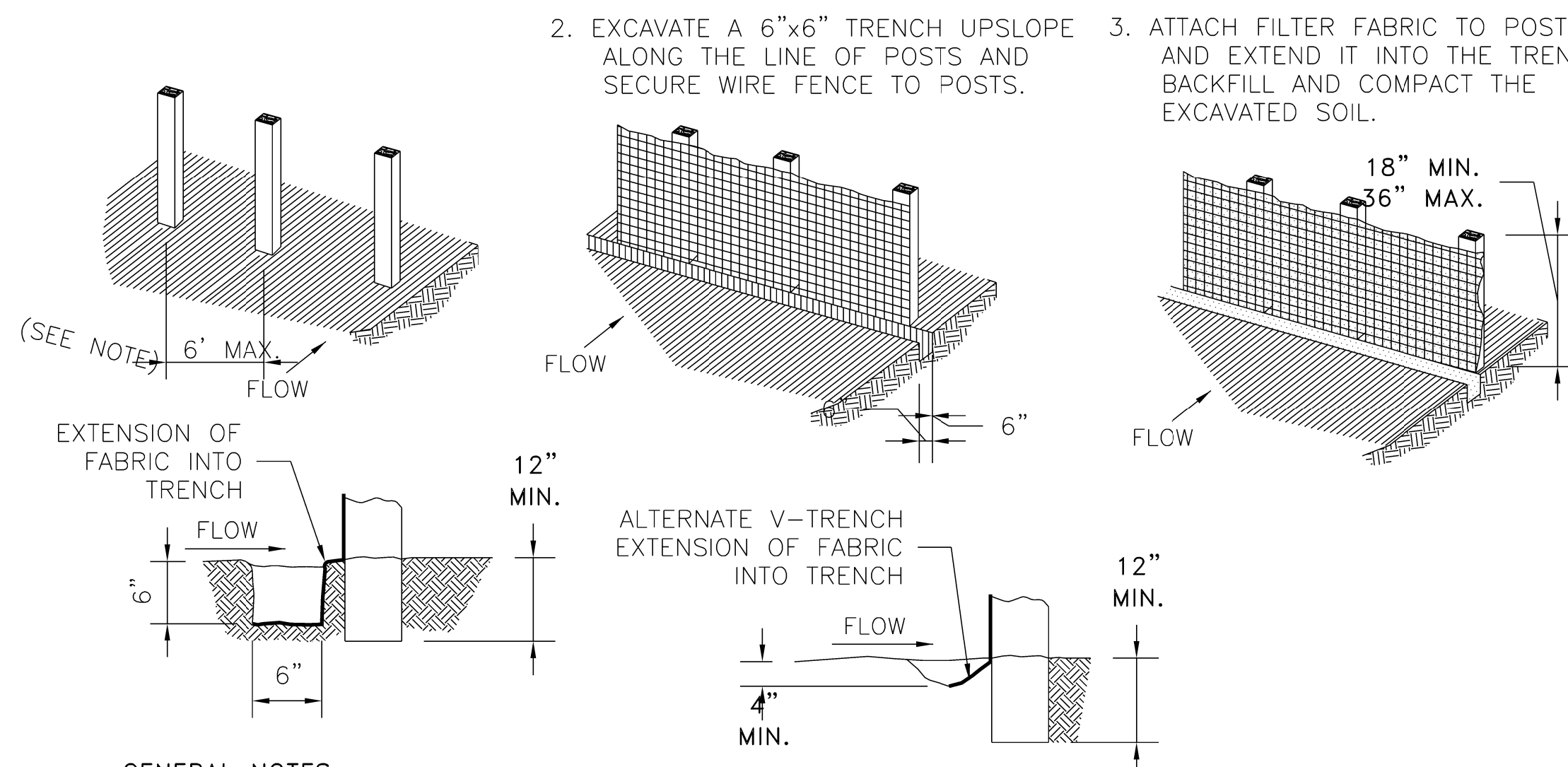
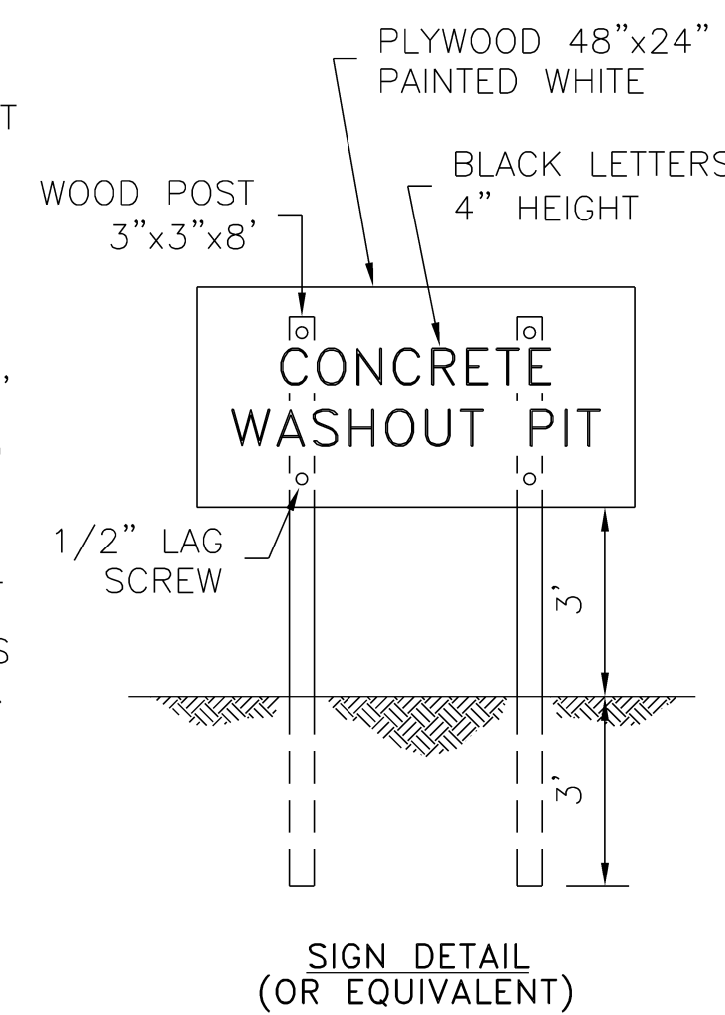
CONCRETE TRUCK WASHOUT AREA

CTW
SYMBOL



GENERAL NOTES:

1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.

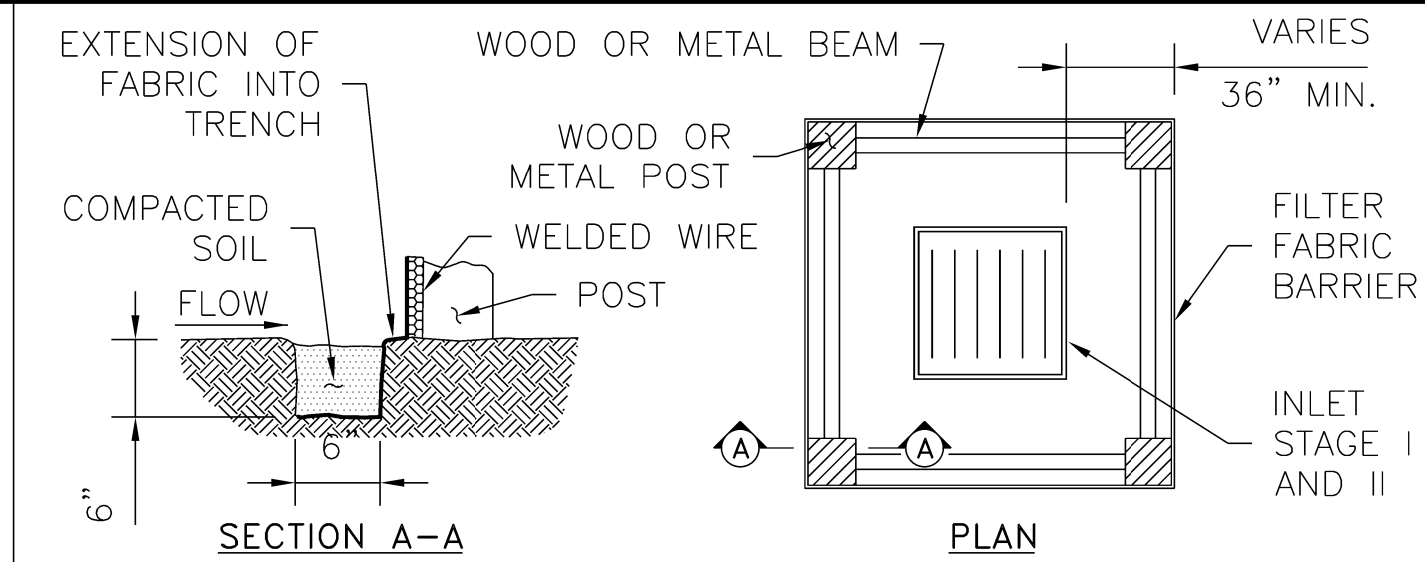


GENERAL NOTES:

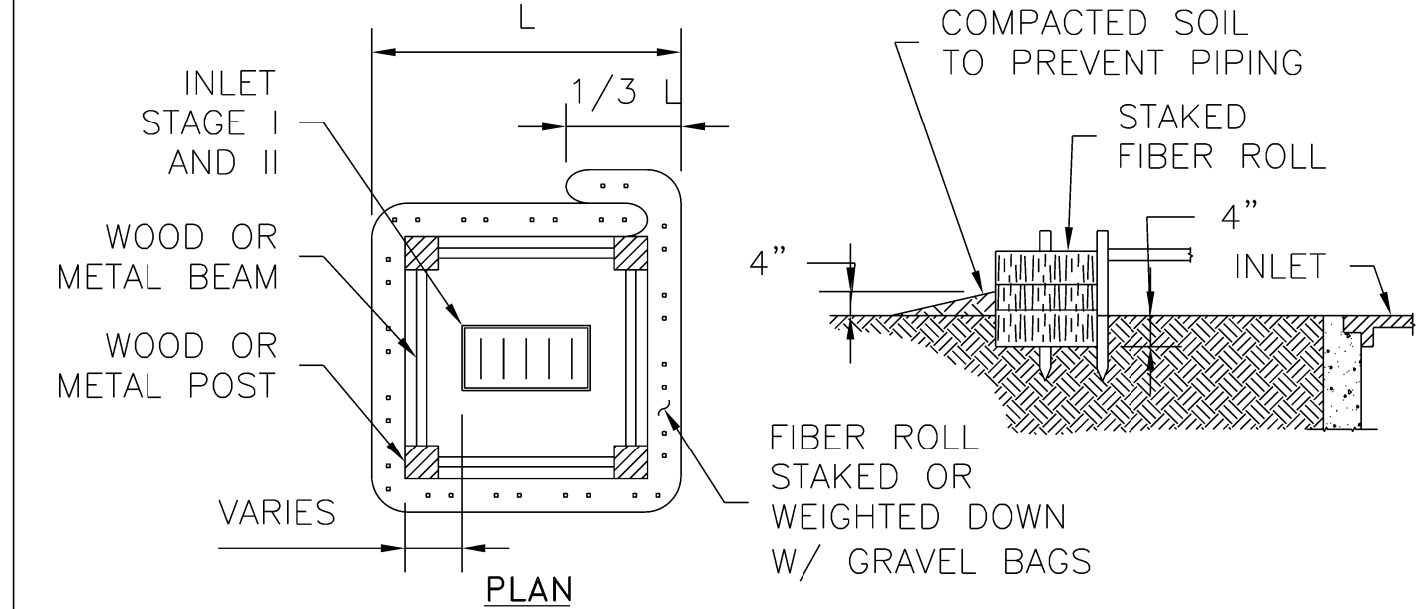
1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.

FILTER BARRIER (SILT FENCE)

SF
SYMBOL



INLET PROTECTION BARRIER WITH REINFORCED FILTER FABRIC

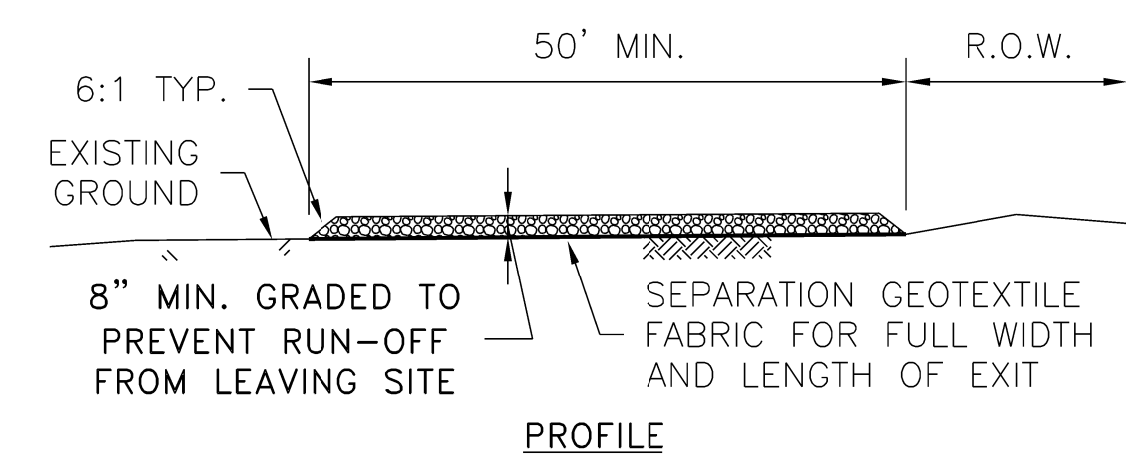


INLET PROTECTION BARRIER WITH FILTER ROLLS

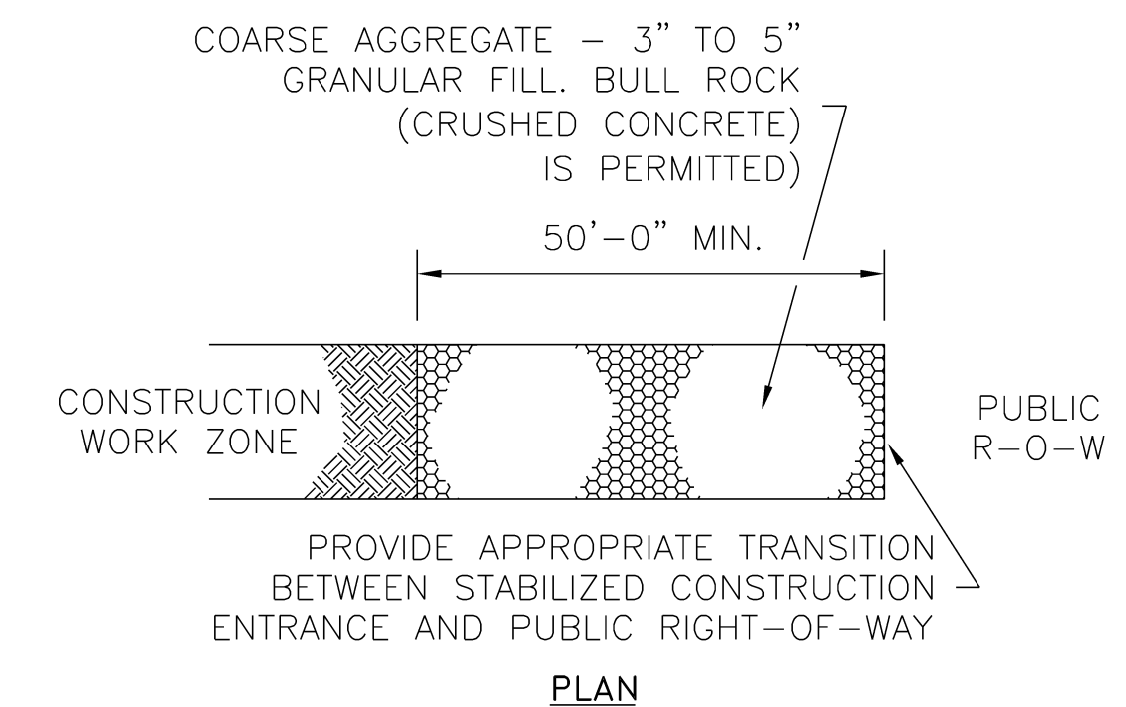
GENERAL NOTES:

INLET PROTECTION BARRIERS

IPB
SYMBOL



PROFILE



PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY

PLAN

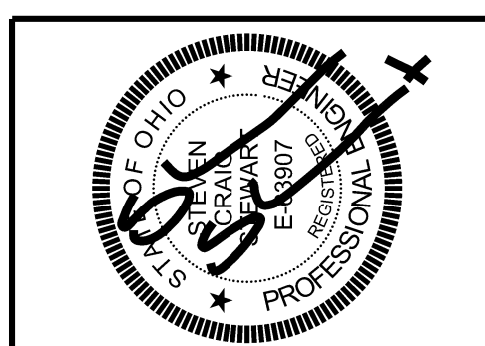
STABILIZED CONSTRUCTION ACCESS

SC-1
SYMBOL

GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

NO.	DATE	DESCRIPTION	BY
04-13-23	PERMIT SET		
07-04-23	80% OHPA REVIEW		



EROSION CONTROL DETAILS
for
Geiger House for Veterans/Klekamp Family Residences
2631 Gilbert Avenue
Auditor Parcel: 067-0002-0078 & 0079
City of Cincinnati
Hamilton County, Ohio

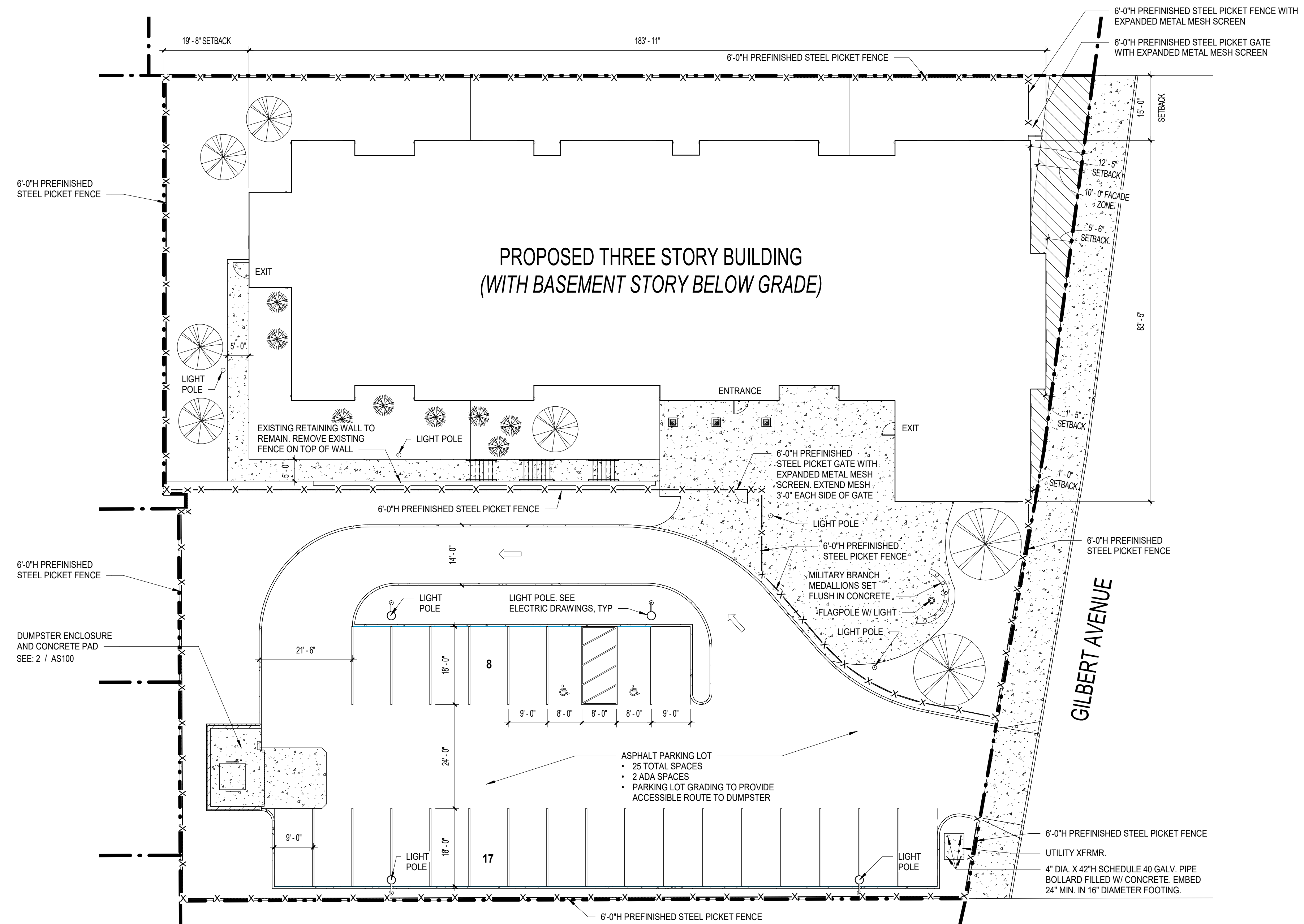
TALBERT SERVICES
2600 Victory Parkway
Cincinnati, Ohio 45206

modelgroup

genesis design llc
Civil Engineering
Cincinnati, Ohio - (513) 636-9694 - email: genesisdesignllc@gmail.com

SHEET TITLE		JOB NO.	
EROSION CONTROL DETAILS			
DESIGNED	S.C.S.	DRAWN	F.O.S.
CHECKED	S.C.S.	DATE	December 2022
SHEET NO.			C-06

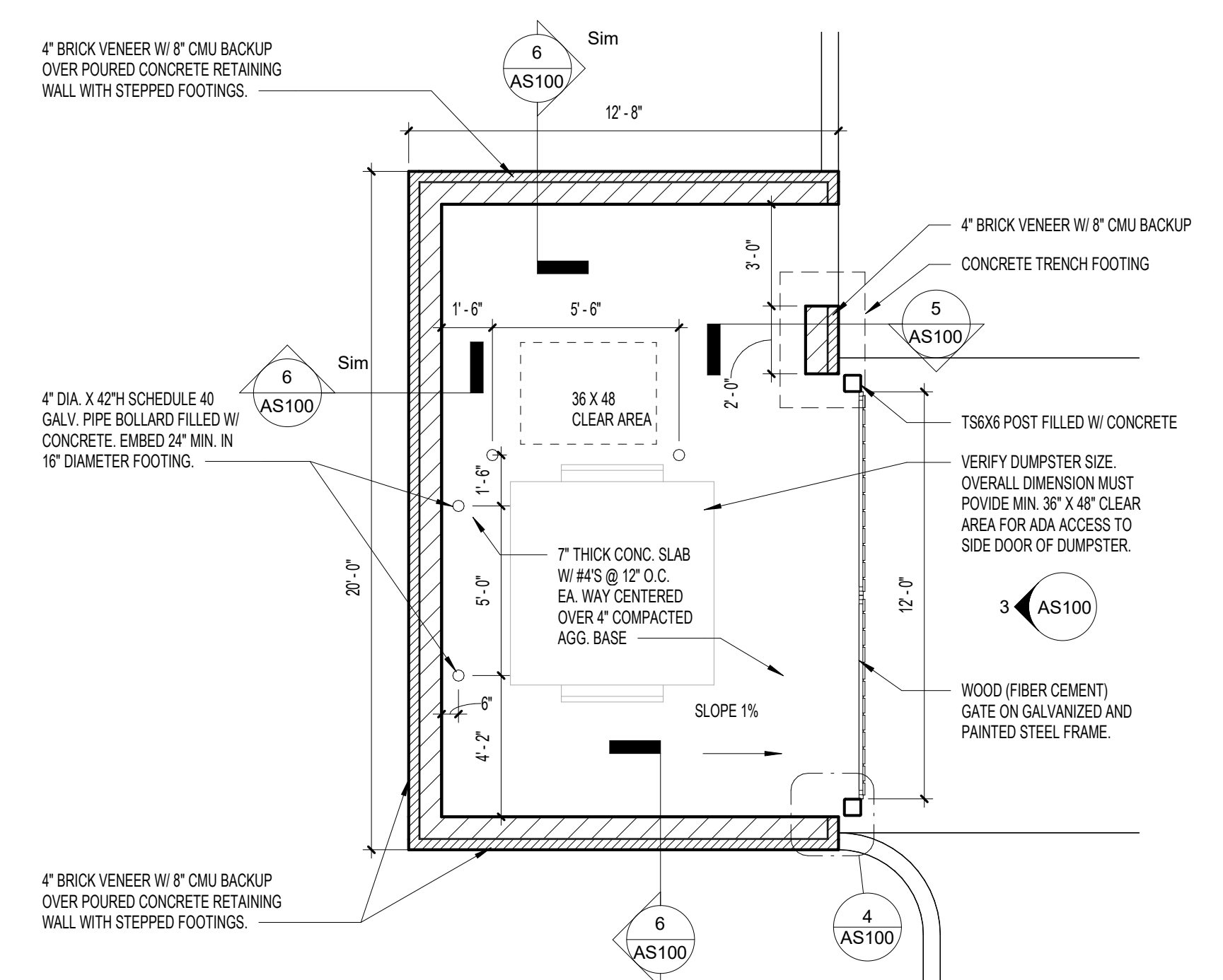
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**PROPOSED THREE STORY BUILDING
(WITH BASEMENT STORY BELOW GRADE)**

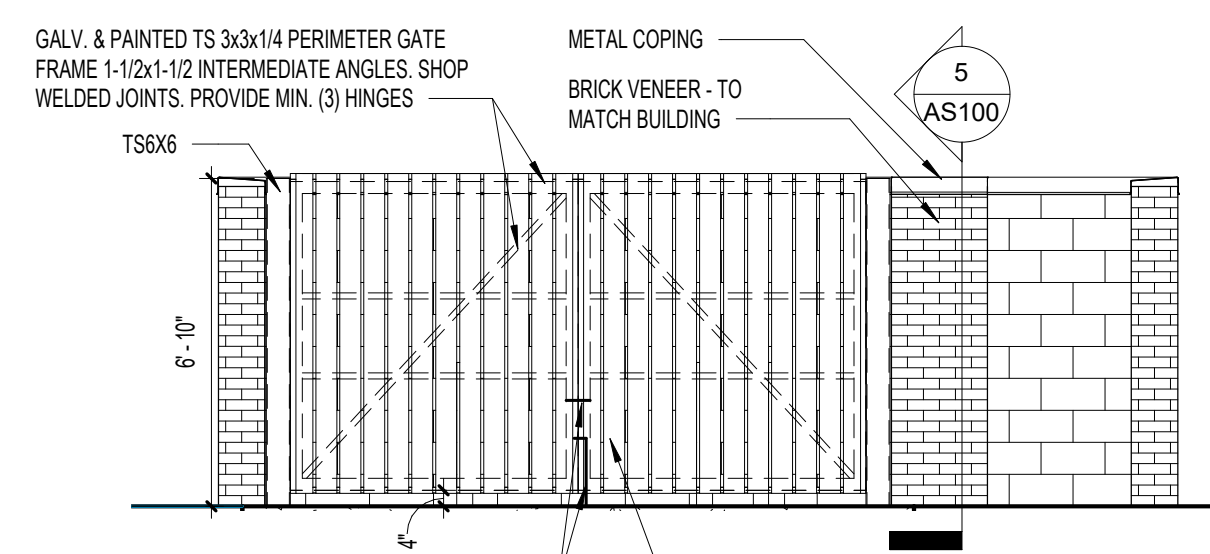
1 ARCHITECTURAL SITE PLAN

AS100 SCALE: 1/16" = 1'-0"



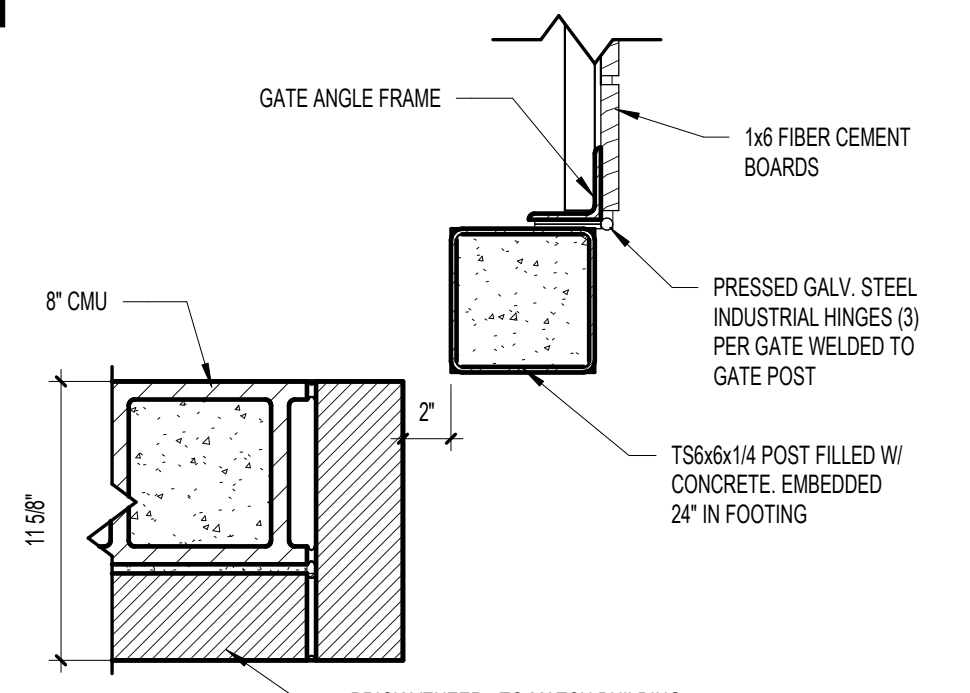
2 DUMPSTER ENCLOSURE PLAN

AS100 SCALE: 1/4" = 1'-0"



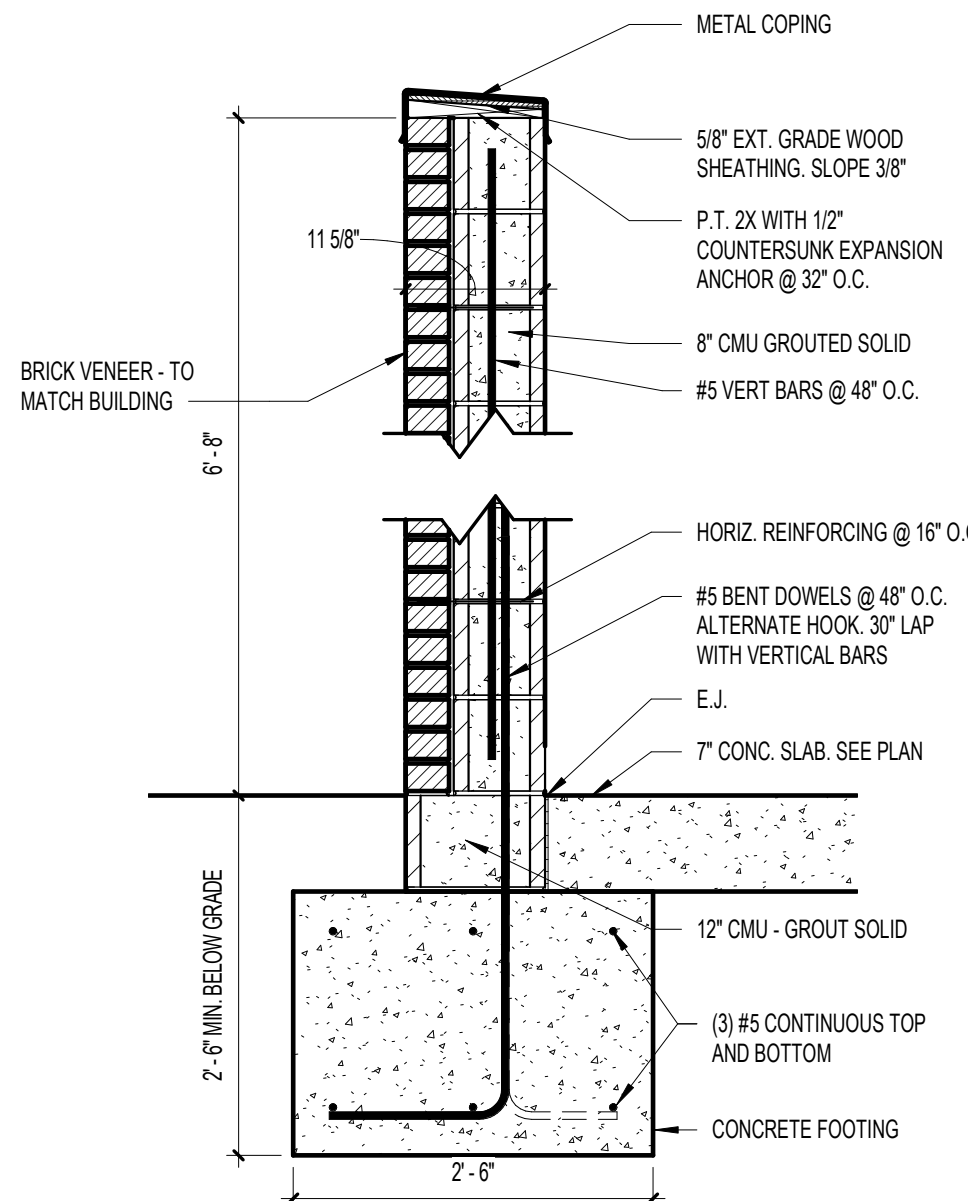
3 DUMPSTER ENCLOSURE ELEVATION

AS100 SCALE: 1/4" = 1'-0"



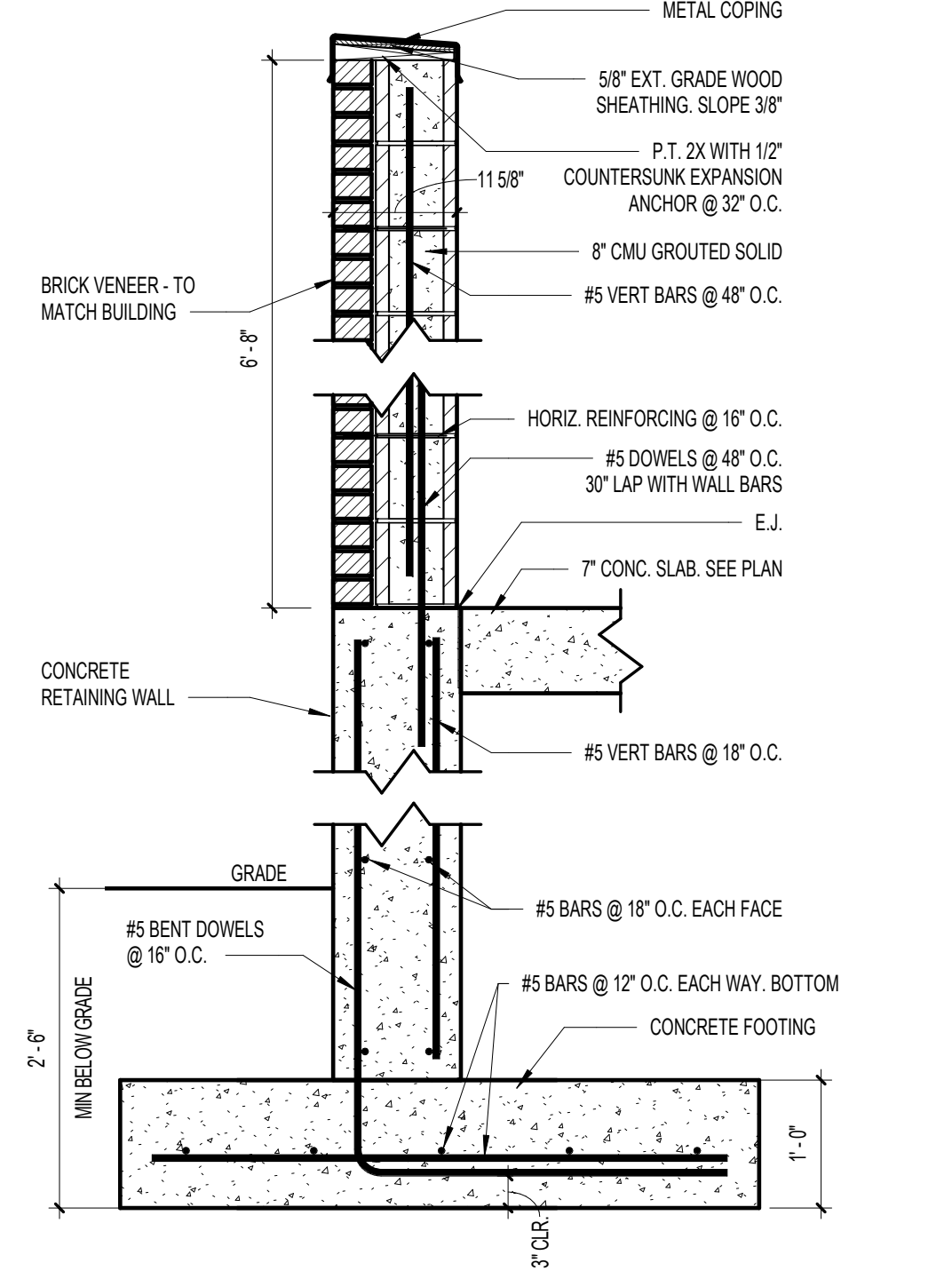
4 DUMPSTER ENCLOSURE - PLAN DETAIL

AS100 SCALE: 1 1/2" = 1'-0"



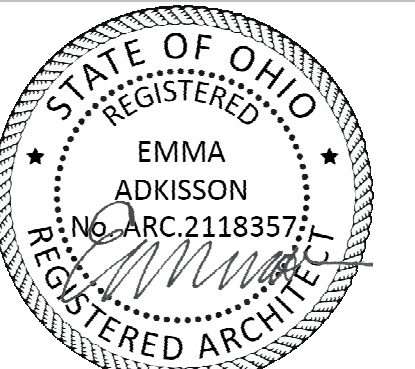
5 DUMPSTER ENCLOSURE SECTION

AS100 SCALE: 3/4" = 1'-0"



6 DUMPSTER ENCLOSURE SECTION

AS100 SCALE: 3/4" = 1'-0"



EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

**GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES PSH**

2631 GILBERT AVE.
Cincinnati, OH 45206

NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

ARCHITECTURAL SITE PLAN

21-116

AS100

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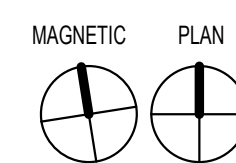
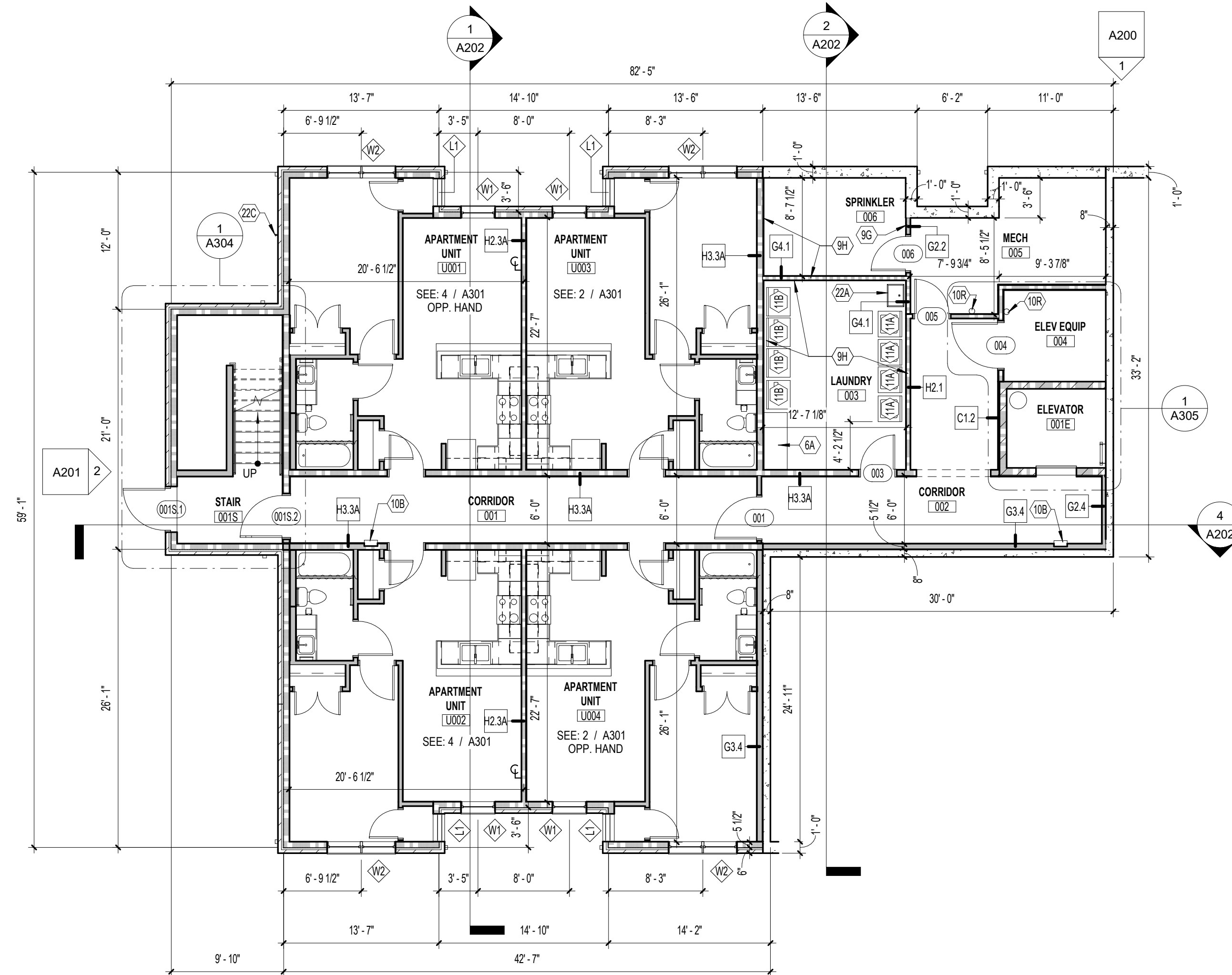
WALL TYPES		
Type Mark	Description	Fire Rating
C1.2	NEW FURRING: 5/8" GYPSUM BOARD (ONE SIDE) OVER 7/8" X 20 GA. HAT CHANNELS AT 16" O.C.	-
G2.2	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.2A	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.4	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.4A	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
G2.6	5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) AND 5/8" GYPSUM BOARD (NON-TUB/SHOWER SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.7	NEW PARTITION: 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.2	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.4	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.7	NEW PARTITION: 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G4.1	5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF GYPSUM BOARD CEILING. WALL MUST BE SMOKE TIGHT	SMOKE
H2.1	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #U305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H2.1A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #U305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H2.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #U301: (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	2
H2.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #U327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
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H3.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #U327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
J2.2	5/8" GYPSUM BOARD (ONE SIDE) OVER 2X4 WOOD FURRING SIDE FRAMED AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF GYPSUM BOARD CEILING.	-
M3.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #U905: 8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	2

GENERAL NOTES - FLOOR PLANS

- A. ALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF MASONRY UNLESS NOTED OTHERWISE.
- B. SEE SHEET G102 FOR WALL TYPES
- C. PROVIDE BLOCKING IN WALLS AROUND TUB/SHOWER (ALL SIDES) AND TOILET FOR POTENTIAL FUTURE GRAB BARS
- D. PROVIDE 2x8 BLOCKING TOP AND BOTTOM OF ALL WALL CABINETS
- E. OFFSET NEW DOORS FROM ADJACENT PERPENDICULAR WALL 4" UNLESS INDICATED OTHERWISE
- F. PROVIDE UL LISTED FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING OF THE ASSEMBLY.
- G. WASHERS AND DRYERS SHALL BE ENERGY STAR RATED.
- H. PROVIDE 1/2" SOLID ACRYLIC RESIN WINDOW STOOL EXTENDING 1/2" BEYOND FACE OF GYPSUM AT ALL WINDOWS.
- I. A RADON MITIGATION SYSTEM WILL BE PROVIDED UNDER SEPARATE CONTRACT. COORDINATE PIPE RUNS FOR THIS SYSTEM WITH MEP EQUIPMENT AND WALL. WHERE POSSIBLE, PIPES SHALL BE LOCATED IN NEW WALLS. WHERE NOT POSSIBLE TO LOCATE PIPES WITHIN CURRENTLY SHOWN WALLS, PIPES SHALL BE BOXED OUT TO MINIMUM DIMENSION.

SHEET KEYNOTES

- 6A 5'-0" X 2'-0" DEEP PLASTIC LAMINATE COUNTER AT 3/8" A.F.F WITH 4" BACKSPLASH AND PLASTIC KNEE BRACES AT EACH END WHERE NO ABUTTING A WALL
- 9G PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD ON THIS FACE OF WALL
- 9H PROVIDE 5/8" MOISTURE-RESISTANT GYPSUM BOARD ON THIS FACE OF WALL
- 10B SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER
- 10R FIRE EXTINGUISHER MOUNTED W/ WALL BRACKET.
- 11A FRONT LOADING, ADA & UFAS COMPLIANT WASHING MACHINE
- 11B LAUNDRY TUB. SEE MEP DRAWINGS.
- 22A HOSE BIBB. SEE MEP DRAWINGS.
- 22C



1 FLOOR PLAN - BASEMENT

A100 SCALE: 1/8" = 1'-0"



EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

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Cincinnati, OH 45206

NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

BASEMENT FLOOR PLAN

21-116

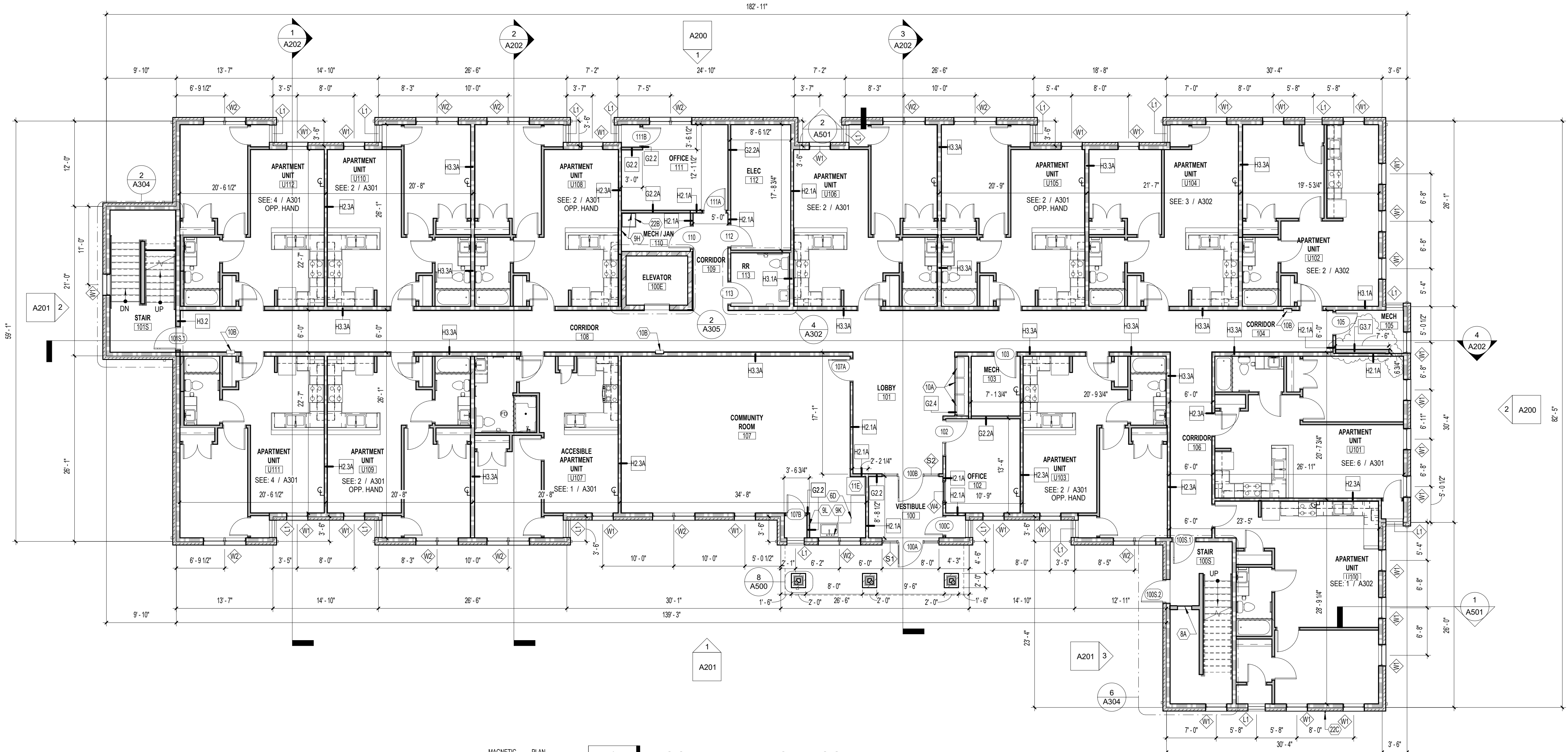
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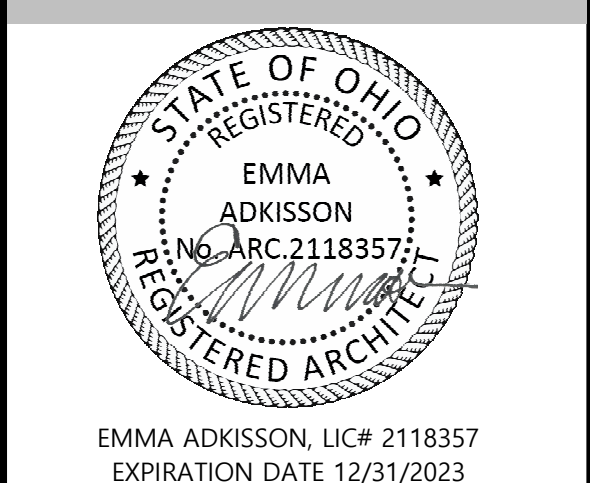
WALL TYPES		
Type Mark	Description	Fire Rating
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G2.2A	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.4	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.4A	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
G2.6	5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUBISHOWER SIDE) AND 5/8" GYPSUM BOARD (NON-TUBISHOWER SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.7	NEW PARTITION: 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUBISHOWER SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.2	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.4	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
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H2.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #U301: (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	2
H2.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #U327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
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 - B. SEE SHEET G102 FOR WALL TYPES
 - C. PROVIDE BLOCKING IN WALLS AROUND TUBISHOWER (ALL SIDES) AND TOILET FOR POTENTIAL FUTURE GRAB BARS
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 - I. A RADON MITIGATION SYSTEM WILL BE PROVIDED UNDER SEPARATE CONTRACT. COORDINATE PIPE RUNS FOR THIS SYSTEM WITH MEP EQUIPMENT AND WALL, WHERE POSSIBLE. PIPES SHALL BE LOCATED IN NEW WALLS, WHERE NOT POSSIBLE TO LOCATE PIPES WITHIN CURRENTLY SHOWN WALLS, PIPES SHALL BE BOXED OUT TO MINIMUM DIMENSION.

- SHEET KEYNOTES**
- 6D PLASTIC LAMINATE COUNTER.
 - 8A 24" W X 48" H ACCESS DOOR.
 - 9H PROVIDE 5/8" MOISTURE-RESISTANT GYPSUM BOARD ON THIS FACE OF WALL.
 - 9K PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD THIS FACE AT WALL BEHIND SINK TO A HEIGHT OF 4'-0" (OR TOP OF KNEE WALL WHERE APPLICABLE). REMAINDER OF WALL FACE TO BE MOISTURE-RESISTANT GYPSUM BOARD.
 - 9L PROVIDE 5/8" MOISTURE-RESISTANT GYPSUM BOARD ON THIS FACE OF WALL AT PORTIONS OF WALL WITHIN 4'-0" OF SINK HORIZONTALLY AND VERTICALLY.
 - 10A MAILBOXES - PROVIDE SALSBUURY INDUSTRIES 3600 SERIES MAILBOXES: (2) 24 UNIT MODEL #3625AFP AND (1) 14 UNIT MODEL #3615FP OR EQUAL. FRONT LOADING, PRIVATE ACCESS. VERIFY REQUIRED WALL OPENING
 - 10B SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER
 - 11E ADA COMPLIANT, ENERGY STAR QUALIFIED REFRIGERATOR - FRIGIDAIRE #FF1T1814Q OR EQUAL. AT LEAST 50% OF FREEZER SHELVES, INCLUDING BOTTOM OF THE FREEZER, 54" MAXIMUM ABOVE THE FLOOR WHEN THE SHELVES ARE INSTALLED AT MAXIMUM HEIGHTS POSSIBLE.
 - 22B MOP SINK. SEE MEP DRAWINGS.
 - 22C HOSE BIBB. SEE MEP DRAWINGS.



1 FLOOR PLAN - FIRST FLOOR
 A101 SCALE: 1/8" = 1'-0"



GEIGER HOUSE FOR VETERANS / KLEKAMP FAMILY RESIDENCES PSH
 2631 GILBERT AVE.
 Cincinnati, OH 45206

NO.	DESCRIPTION	DATE
80%	OHFA REVIEW	01/04/23
	PERMIT SET	04/13/23
	REVISION	07/10/23

FIRST FLOOR PLAN

21-116

A101

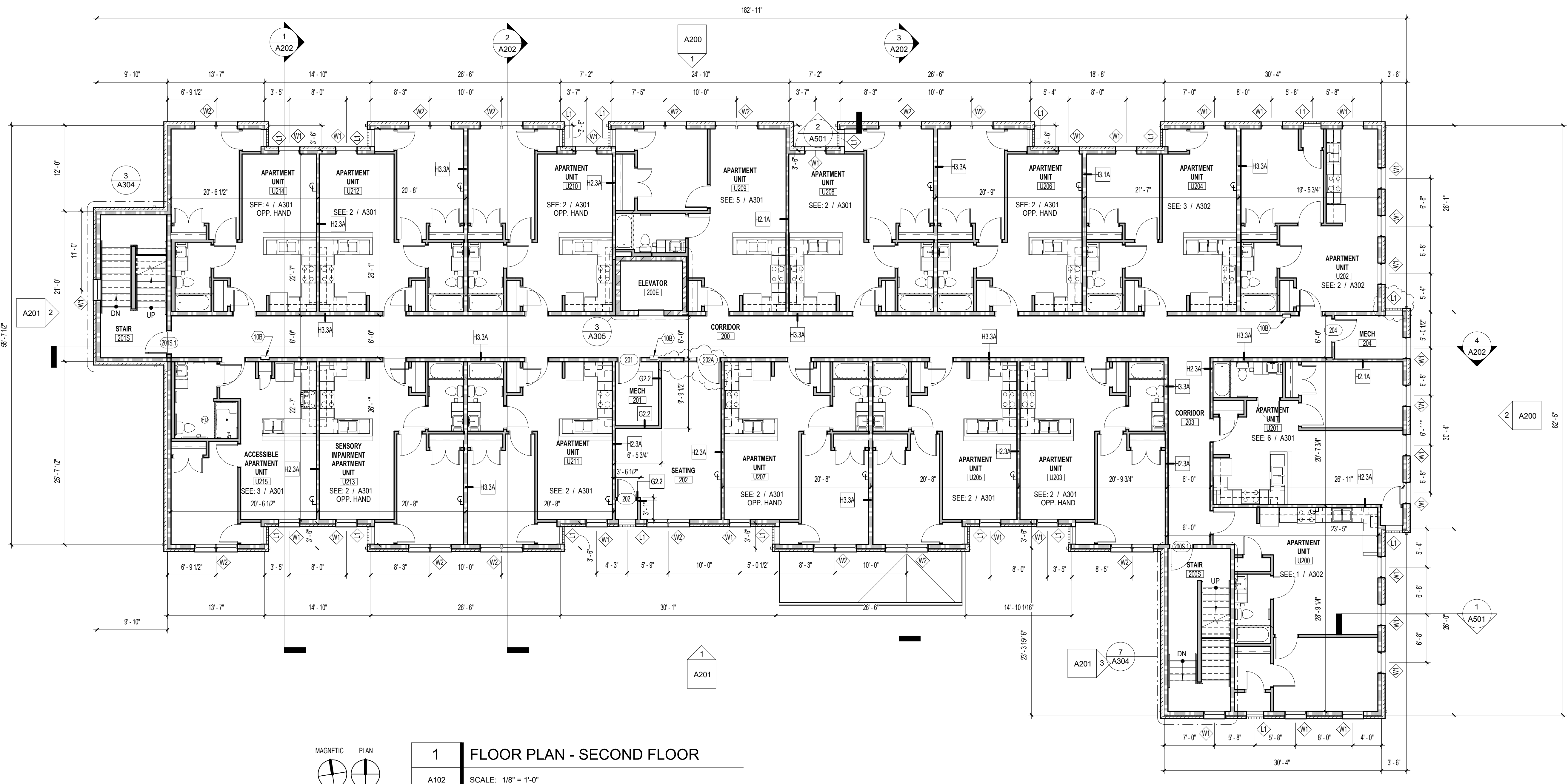
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G2.4A	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
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H2.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J301: (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	2
H2.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H3.1A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H3.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J301: (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	2
H3.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
J2.2	5/8" GYPSUM BOARD (ONE SIDE) OVER 2X4 WOOD FURRING SIDE FRAMED AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF GYPSUM BOARD CEILING.	-
M3.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J905: 8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	2

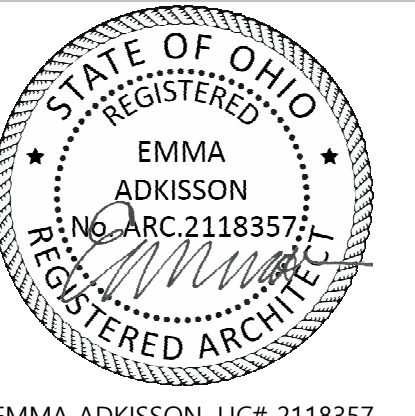
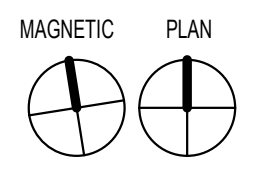
- GENERAL NOTES - FLOOR PLANS**
- A. ALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF MASONRY UNLESS NOTED OTHERWISE.
 - B. SEE SHEET G102 FOR WALL TYPES
 - C. PROVIDE BLOCKING IN WALLS AROUND TUB/SHOWER (ALL SIDES) AND TOILET FOR POTENTIAL FUTURE GRAB BARS
 - D. PROVIDE 2x8 BLOCKING TOP AND BOTTOM OF ALL WALL CABINETS
 - E. OFFSET NEW DOORS FROM ADJACENT PERPENDICULAR WALL 4" UNLESS INDICATED OTHERWISE
 - F. PROVIDE UL LISTED FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING OF THE ASSEMBLY.
 - G. WASHERS AND DRYERS SHALL BE ENERGY STAR RATED.
 - H. PROVIDE 1/2" SOLID ACRYLIC RESIN WINDOW STOOL EXTENDING 1/2" BEYOND FACE OF GYPSUM AT ALL WINDOWS.
 - I. A RADON MITIGATION SYSTEM WILL BE PROVIDED UNDER SEPARATE CONTRACT. COORDINATE PIPE RUNS FOR THIS SYSTEM WITH MEP EQUIPMENT AND WALL, WHERE POSSIBLE. PIPES SHALL BE LOCATED IN NEW WALLS, WHERE NOT POSSIBLE TO LOCATE PIPES WITHIN CURRENTLY SHOWN WALLS, PIPES SHALL BE BOXED OUT TO MINIMUM DIMENSION.

SHEET KEYNOTES

10B SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER



1 FLOOR PLAN - SECOND FLOOR
 A102 SCALE: 1/8" = 1'-0"



EMMA ADKISSON, LIC# 2118357
 EXPIRATION DATE 12/31/2023

**GEIGER HOUSE FOR VETERANS /
 KLEKAMP FAMILY RESIDENCES PSH**

2631 GILBERT AVE.
 Cincinnati, OH 45206

NO.	DESCRIPTION	DATE
	80% OHFA REVIEW	01/04/23
	PERMIT SET	04/13/23
A	PERMIT REVISION	05/23/23
	REVISION	07/10/23

SECOND FLOOR PLAN

21-116

A102

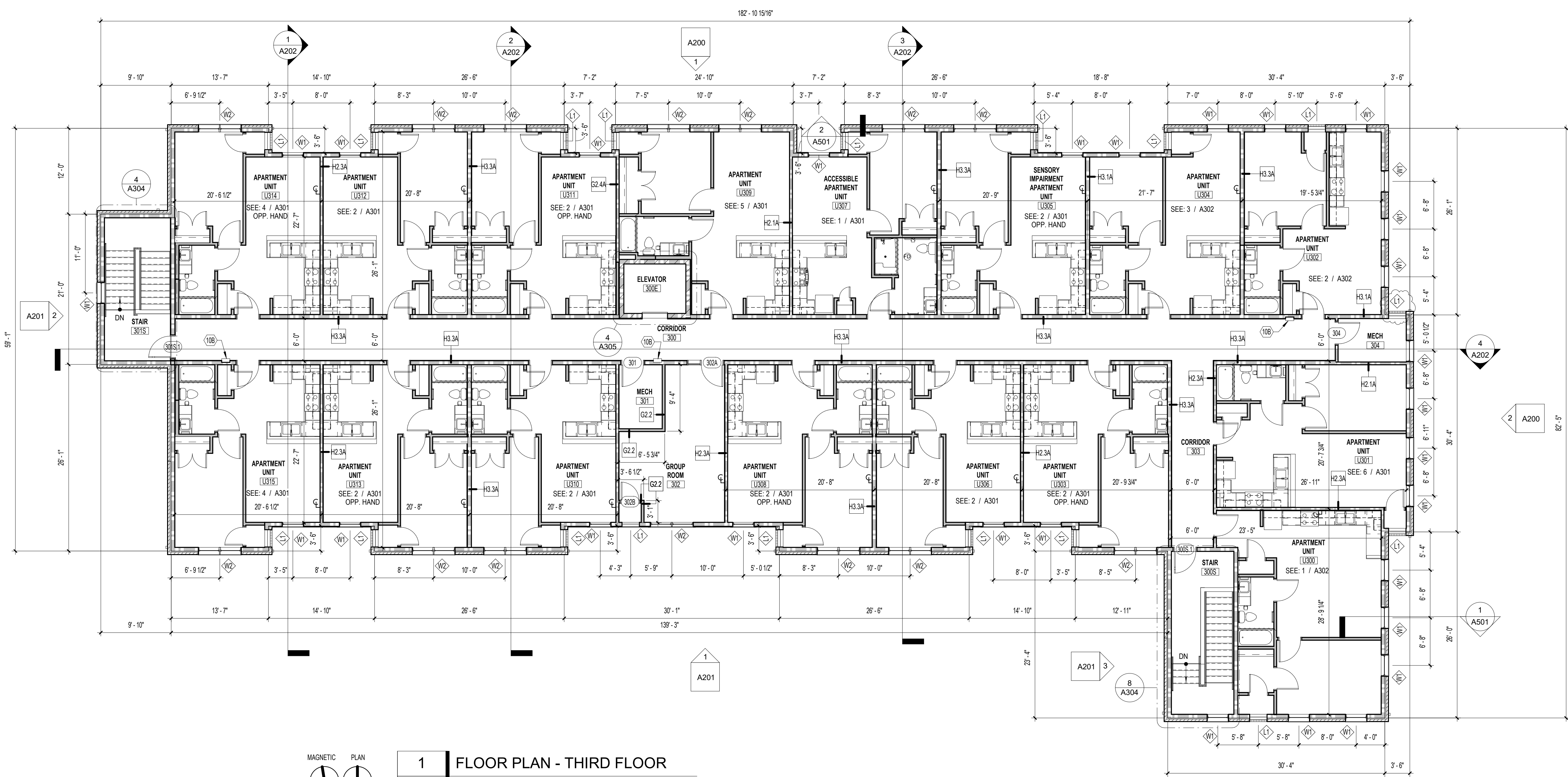
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WALL TYPES		
Type Mark	Description	Fire Rating
C1.2	NEW FURRING: 5/8" GYPSUM BOARD (ONE SIDE) OVER 7/8" X 20 GA. HAT CHANNELS AT 16" O.C.	-
G2.2	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.2A	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.4	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.4A	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
G2.6	5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) AND 5/8" GYPSUM BOARD (NON-TUB/SHOWER SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.7	NEW PARTITION: 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.2	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.4	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.7	NEW PARTITION: 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G4.1	5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF GYPSUM BOARD CEILING. WALL MUST BE SMOKE TIGHT	SMOKE
H2.1	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H2.1A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H2.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J301: (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	2
H2.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
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H3.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J301: (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	2
H3.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF GYPSUM BOARD CEILING.	1
J2.2	5/8" GYPSUM BOARD (ONE SIDE) OVER 2X4 WOOD FURRING SIDE FRAMED AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF GYPSUM BOARD CEILING.	-
M3.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J905: 8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	2

- GENERAL NOTES - FLOOR PLANS**
- ALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF MASONRY UNLESS NOTED OTHERWISE.
 - SEE SHEET G102 FOR WALL TYPES
 - PROVIDE BLOCKING IN WALLS AROUND TUB/SHOWER (ALL SIDES) AND TOILET FOR POTENTIAL FUTURE GRAB BARS
 - PROVIDE 2x8 BLOCKING TOP AND BOTTOM OF ALL WALL CABINETS
 - OFFSET NEW DOORS FROM ADJACENT PERPENDICULAR WALL 4" UNLESS INDICATED OTHERWISE
 - PROVIDE UL LISTED FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING OF THE ASSEMBLY.
 - WASHERS AND DRYERS SHALL BE ENERGY STAR RATED.
 - PROVIDE 1/2" SOLID ACRYLIC RESIN WINDOW STOOL EXTENDING 1/2" BEYOND FACE OF GYPSUM AT ALL WINDOWS.
 - A RADON MITIGATION SYSTEM WILL BE PROVIDED UNDER SEPARATE CONTRACT. COORDINATE PIPE RUNS FOR THIS SYSTEM WITH MEP EQUIPMENT AND WALL. WHERE POSSIBLE, PIPES SHALL BE LOCATED IN NEW WALLS. WHERE NOT POSSIBLE TO LOCATE PIPES WITHIN CURRENTLY SHOWN WALLS, PIPES SHALL BE BOXED OUT TO MINIMUM DIMENSION.

SHEET KEYNOTES

10B SEMI-RECESSED FIRE EXTINGUISHER CABINET AND EXTINGUISHER



MAGNETIC PLAN

1 FLOOR PLAN - THIRD FLOOR

A103 SCALE: 1/8" = 1'-0"



EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

**GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES PSH**

2631 GILBERT AVE.
Cincinnati, OH 45206

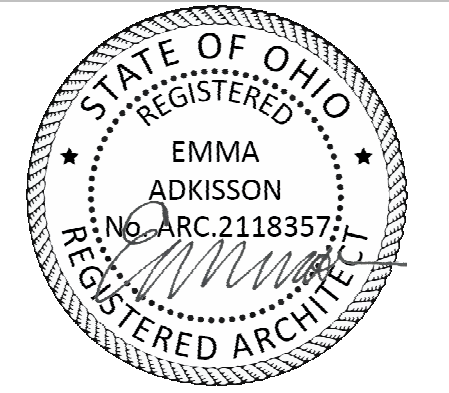
NO.	DESCRIPTION	DATE
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	PERMIT SET	04/13/23
	REVISION	07/10/23

THIRD FLOOR PLAN

21-116

A103

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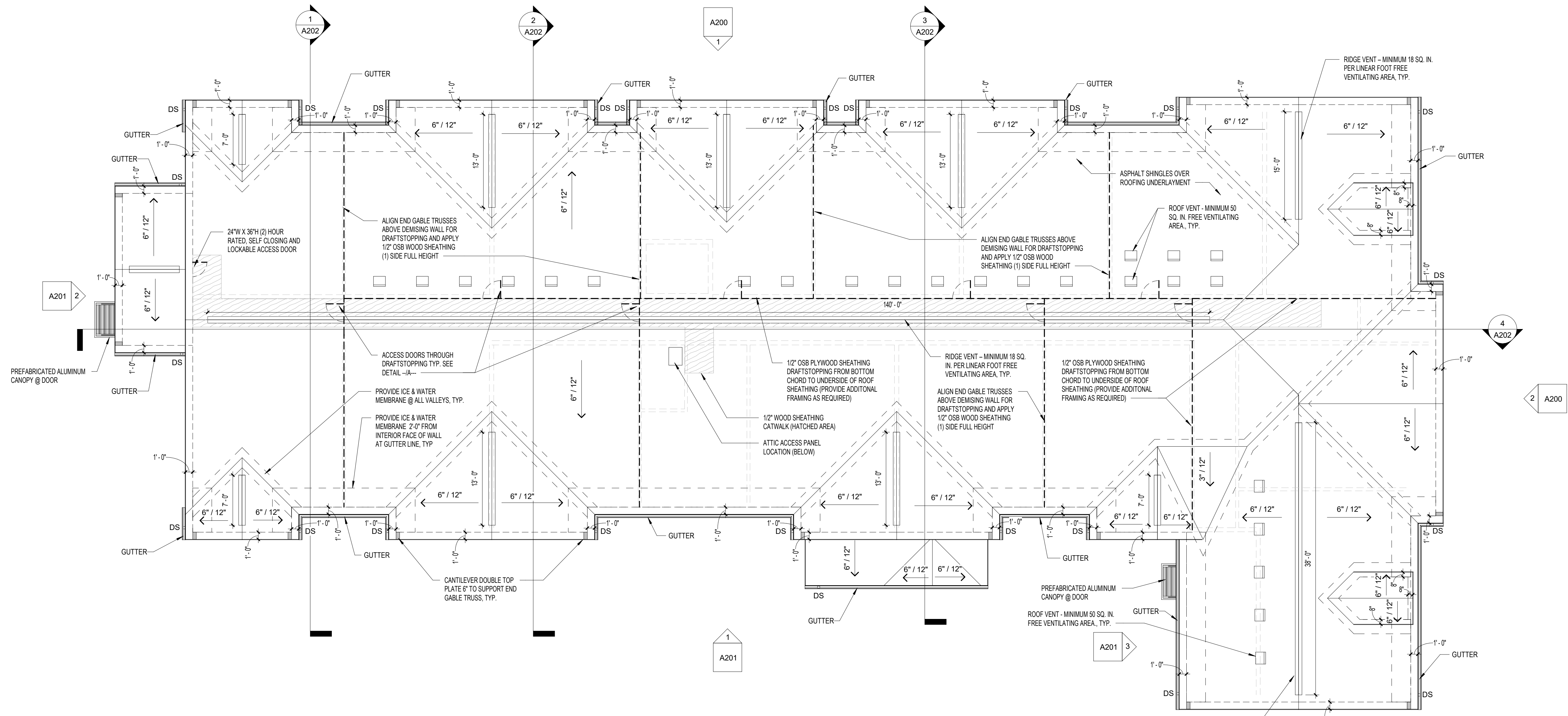
2631 GILBERT AVE.
Cincinnati, OH 45206

GENERAL NOTES - ROOF PLAN

- A. ROOF PLAN DOES NOT SHOW ALL MECHANICAL / ELECTRICAL ROOFTOP EQUIPMENT AND PENETRATIONS, SUCH AS PLUMBING VENT. SEE RESPECTIVE DRAWINGS FOR SUCH EQUIPMENT AND PENETRATIONS.
- B. CONNECT DOWN SPOUTS TO STORMWATER DRAINAGE SYSTEM. SEE CIVIL.
- C. PROVIDE FLASHING AT ALL ROOF PENETRATIONS AS REQUIRED BY ROOFING MANUFACTURER TO PROVIDE WATERTIGHT INSTALLATION AND COMPLY WITH WARRANTY REQUIREMENTS.
- D. PREFABRICATED ALUMINUM AWNING SHALL BE MAPES ARCHITECTURAL CANOPY OR EQUAL. PROVIDE FLAT SOFFIT AND 8" HIGH SMOOTH 'J' FASCIA. WALLMOUNTED BOLTS SHALL BE CONCEALED WITHIN CANOPY SYSTEM. FLASH ROOF SURFACE TO WALL TO PROVIDE WATERTIGHT TRANSITION.

ROOF PLAN LEGEND

- ← ROOF SLOPE DOWN (PITCH)
- DS 3" x 4" DOWNSPOUT WITH 6" DOWNSPOUT ADAPTER AT BASE OF DOWNSPOUT FOR CONNECTION TO 6" STORM PIPING
- GUTTER 6" GUTTER



MAGNETIC PLAN
1 ROOF PLAN
A104 SCALE: 1/8" = 1'-0"

NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23
		04/13/23

ROOF PLAN

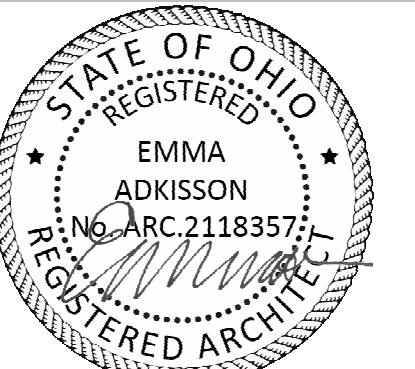
21-116

A104

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GENERAL NOTES - ELEVATIONS

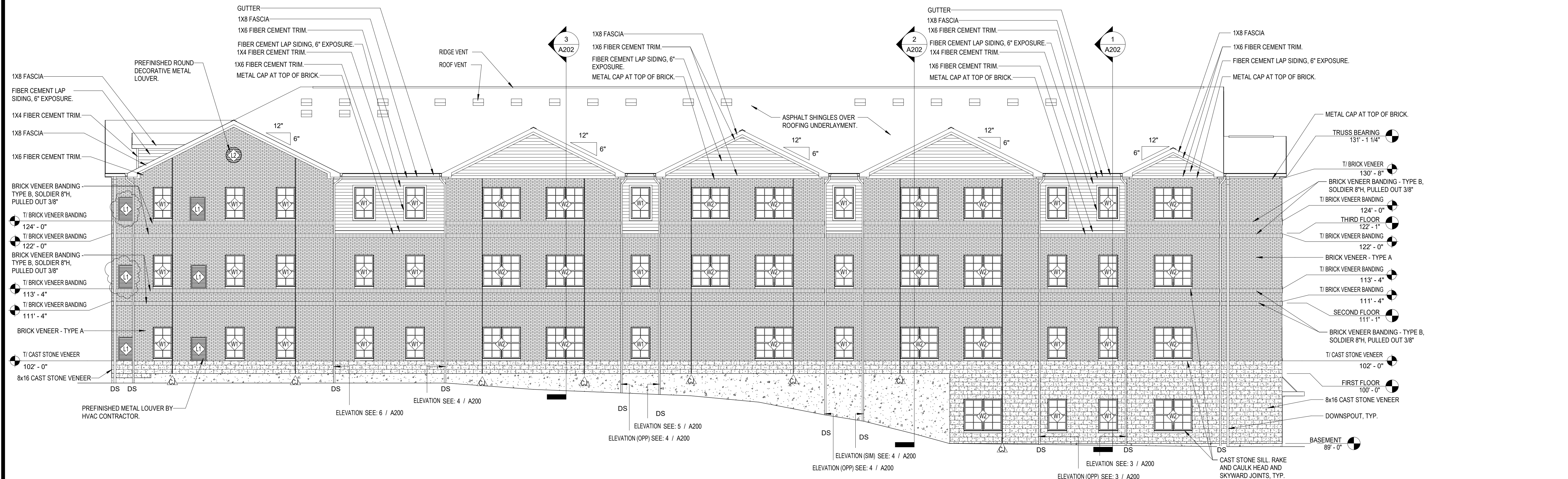
- A. DOWNSPOUTS (DS) TO BE CONNECTED TO STORMWATER DRAINAGE SYSTEM
- B. PROVIDE CORRUGATED BRICK WALL TIES (16 GA. HOT DIP GALVANIZED) 16" O.C. VERTICALLY AND HORIZONTALLY.
- C. PROVIDE THRU WALL FLASHING AND WEEP HOLES AT 32" O.C. @ BASE OF BRICK/CAST STONE VENEER AND ABOVE ALL WINDOWS, DOORS, AND OTHER PENETRATIONS THAT REQUIRE LINTEL.
- D. FIBER CEMENT SIDING AND TRIM TO HAVE SMOOTH FINISH AND BE PRIMED FOR FIELD PAINTING. LAP SIDING TO BE BY ALLURA OR EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS INCLUDING FLASHING AT MANUFACTURER RECOMMENDED LOCATIONS



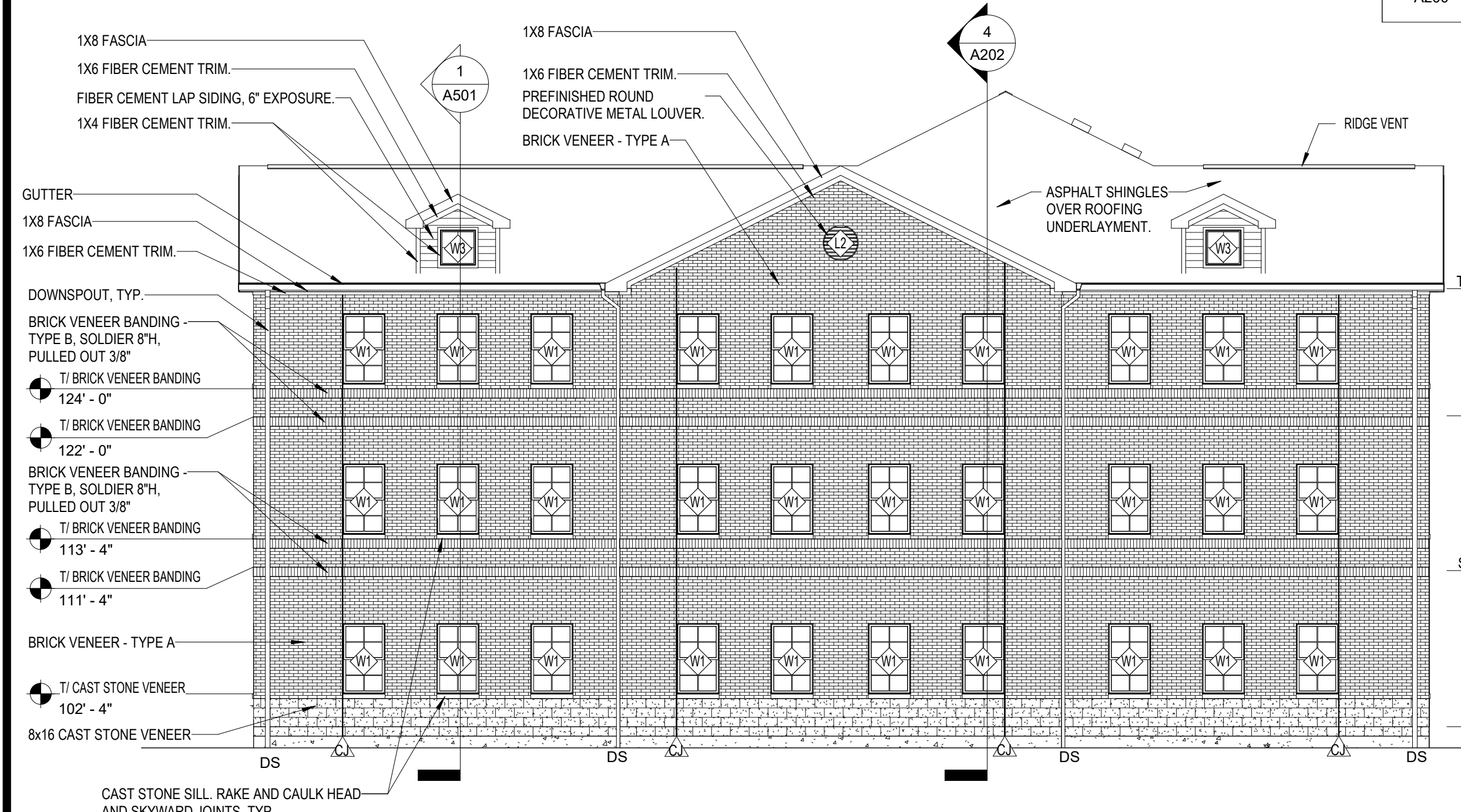
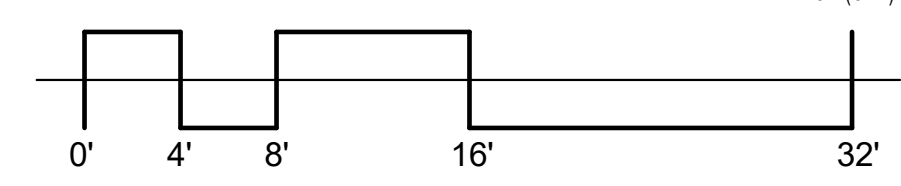
EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

**GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES PSH**

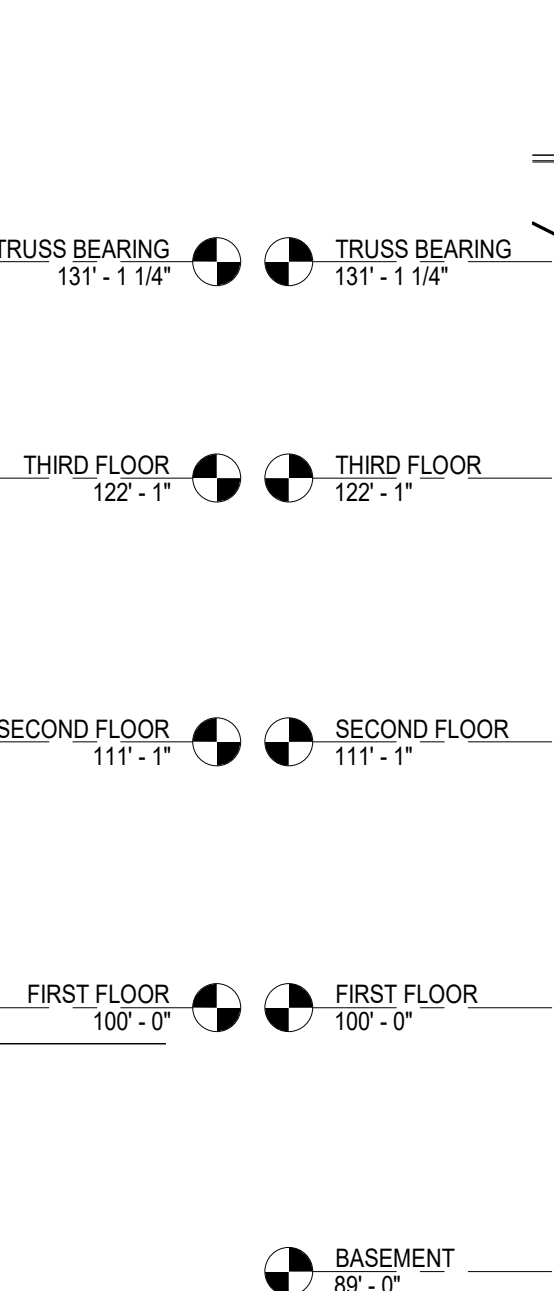
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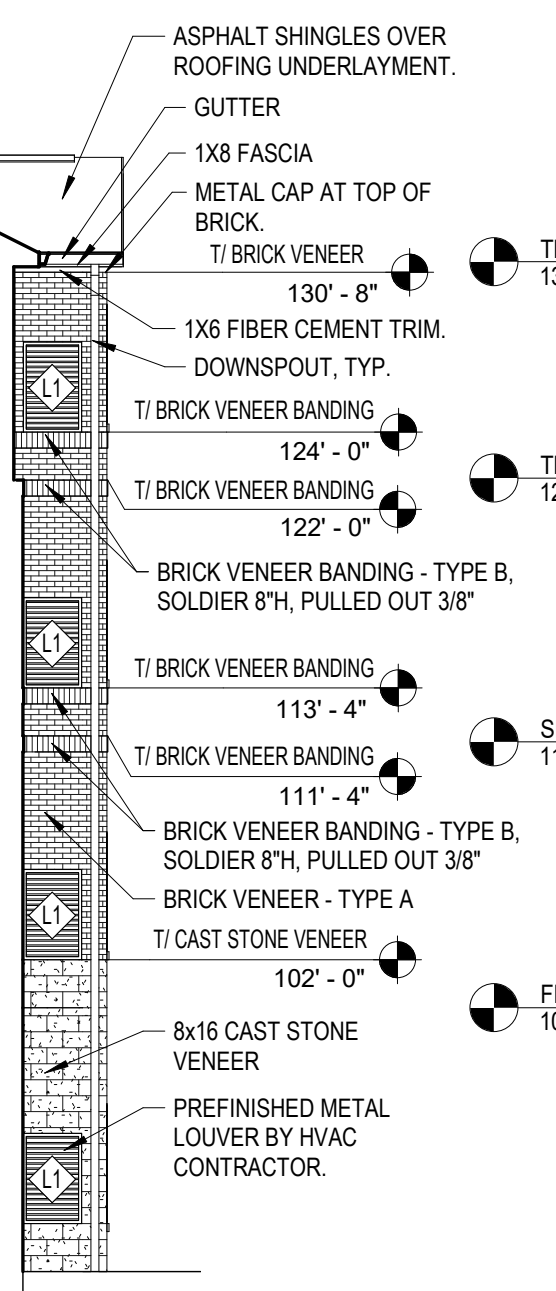
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A200 SCALE: 1/8" = 1'-0"



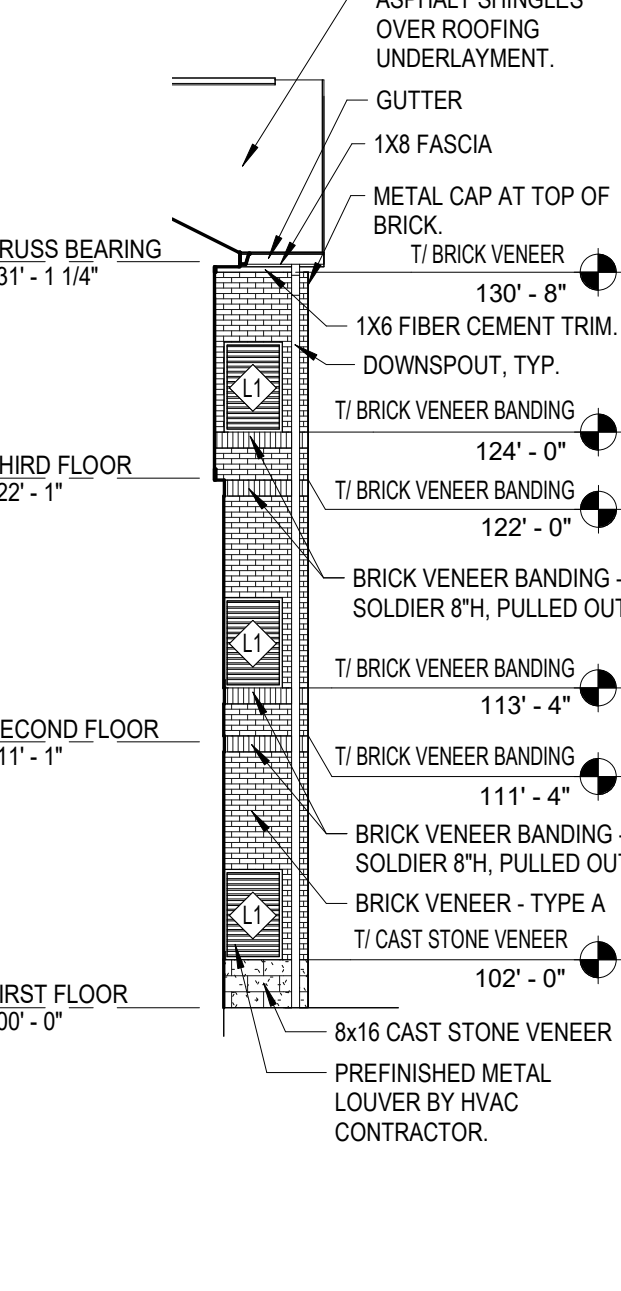
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A200 SCALE: 1/8" = 1'-0"



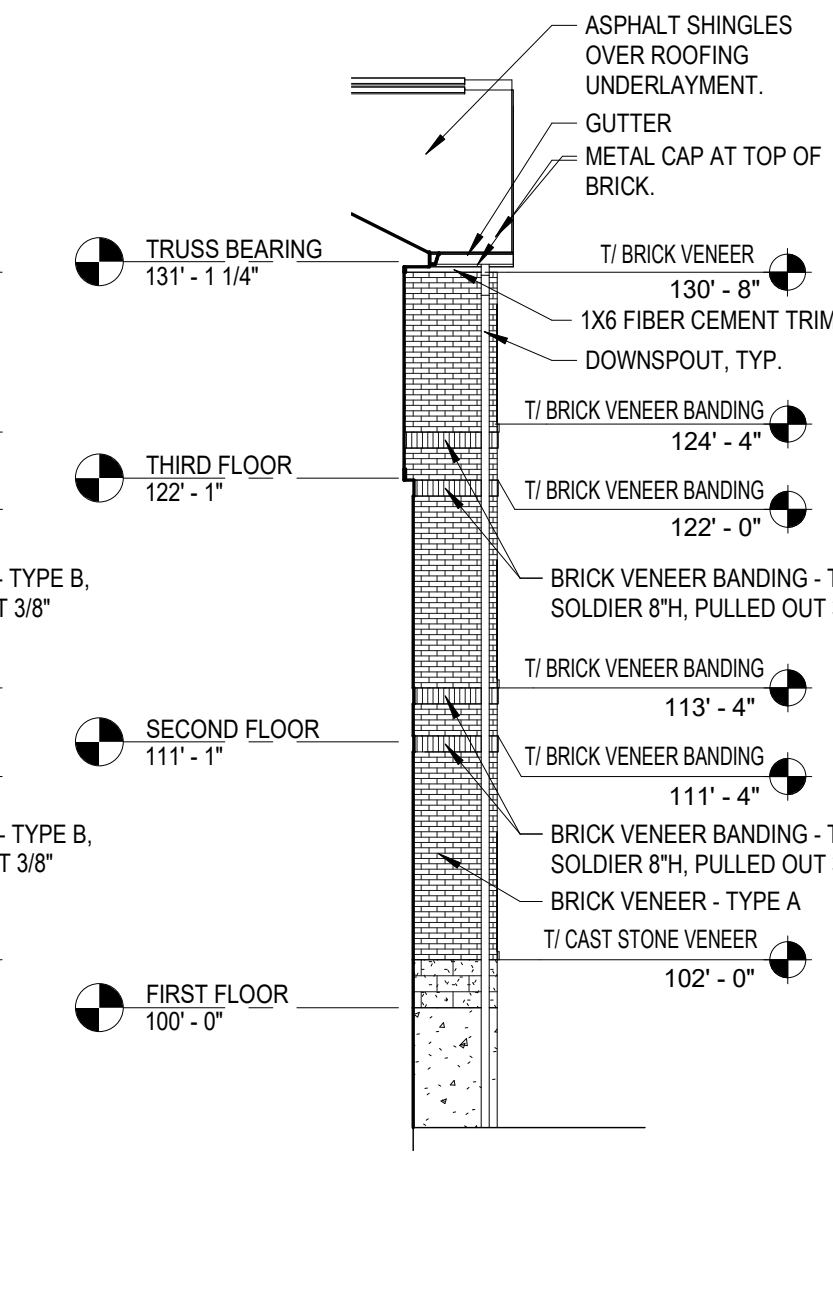
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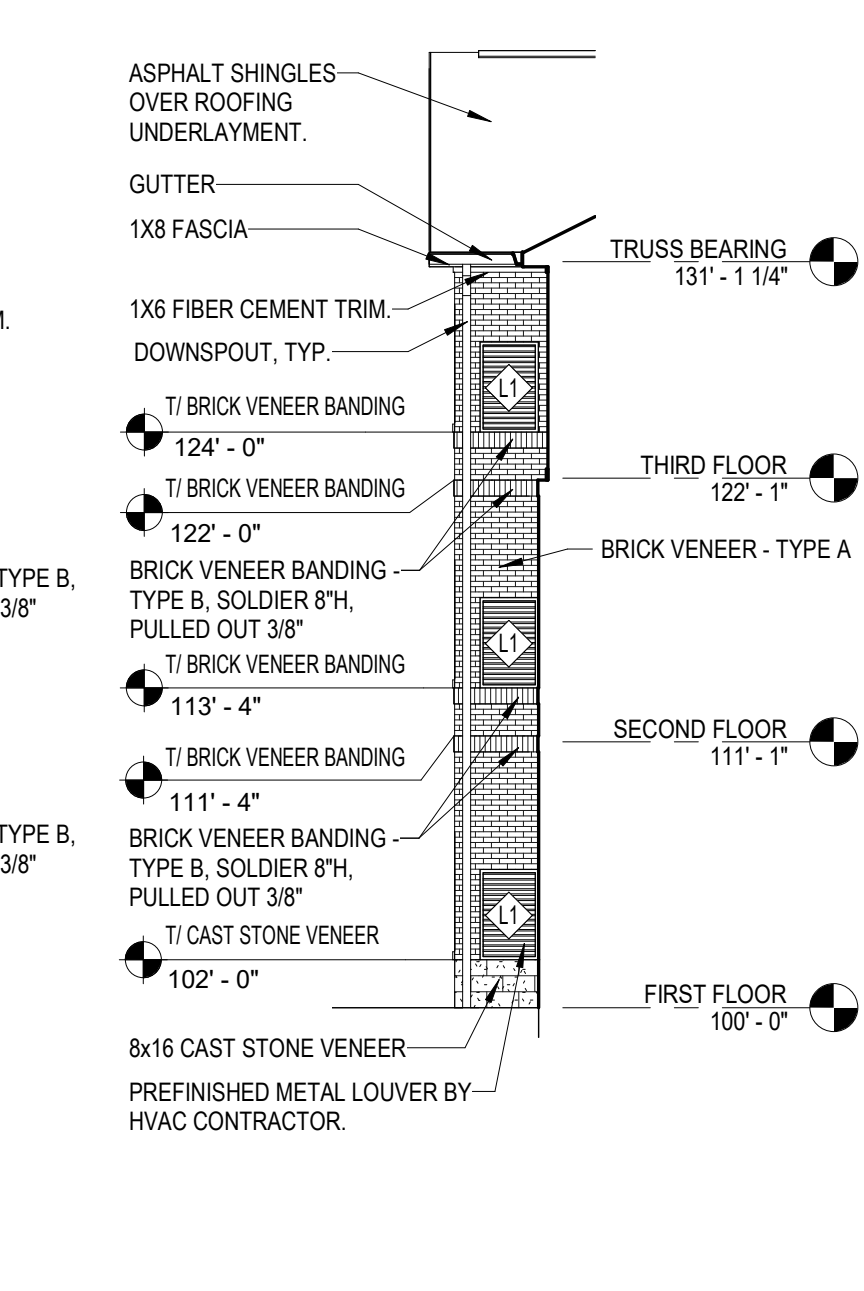
4 ELEVATION
A200 SCALE: 1/8" = 1'-0"



5 ELEVATION
A200 SCALE: 1/8" = 1'-0"



6 ELEVATION
A200 SCALE: 1/8" = 1'-0"



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	PERMIT SET	04/13/23
	REVISION	07/10/23

EXTERIOR ELEVATIONS

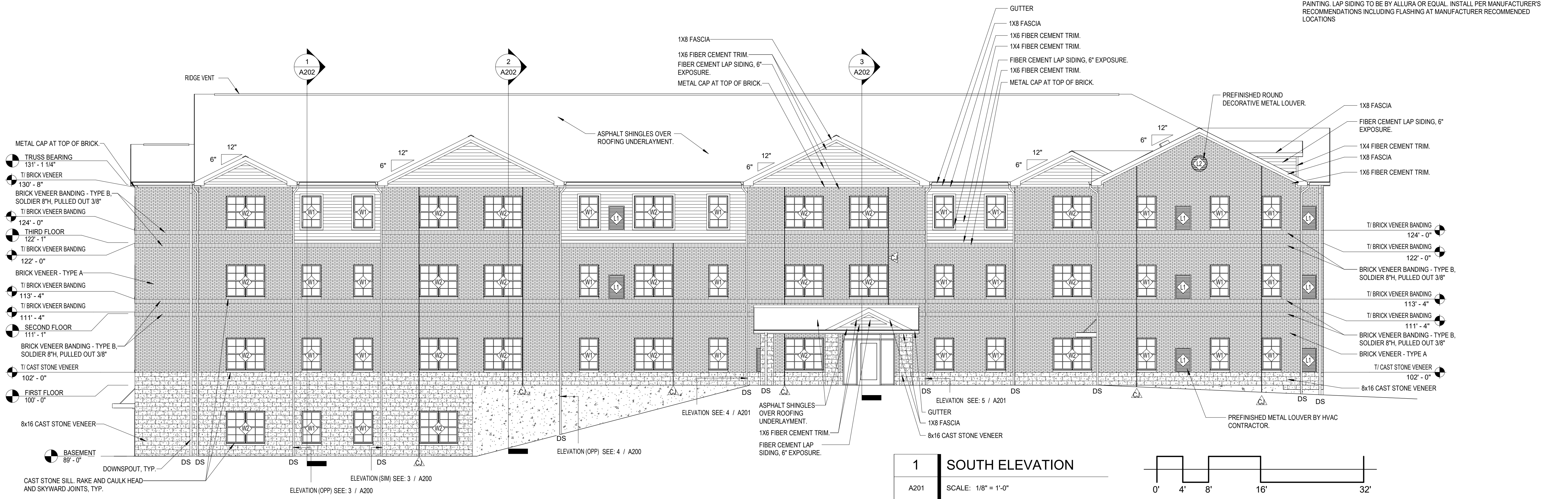
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A200

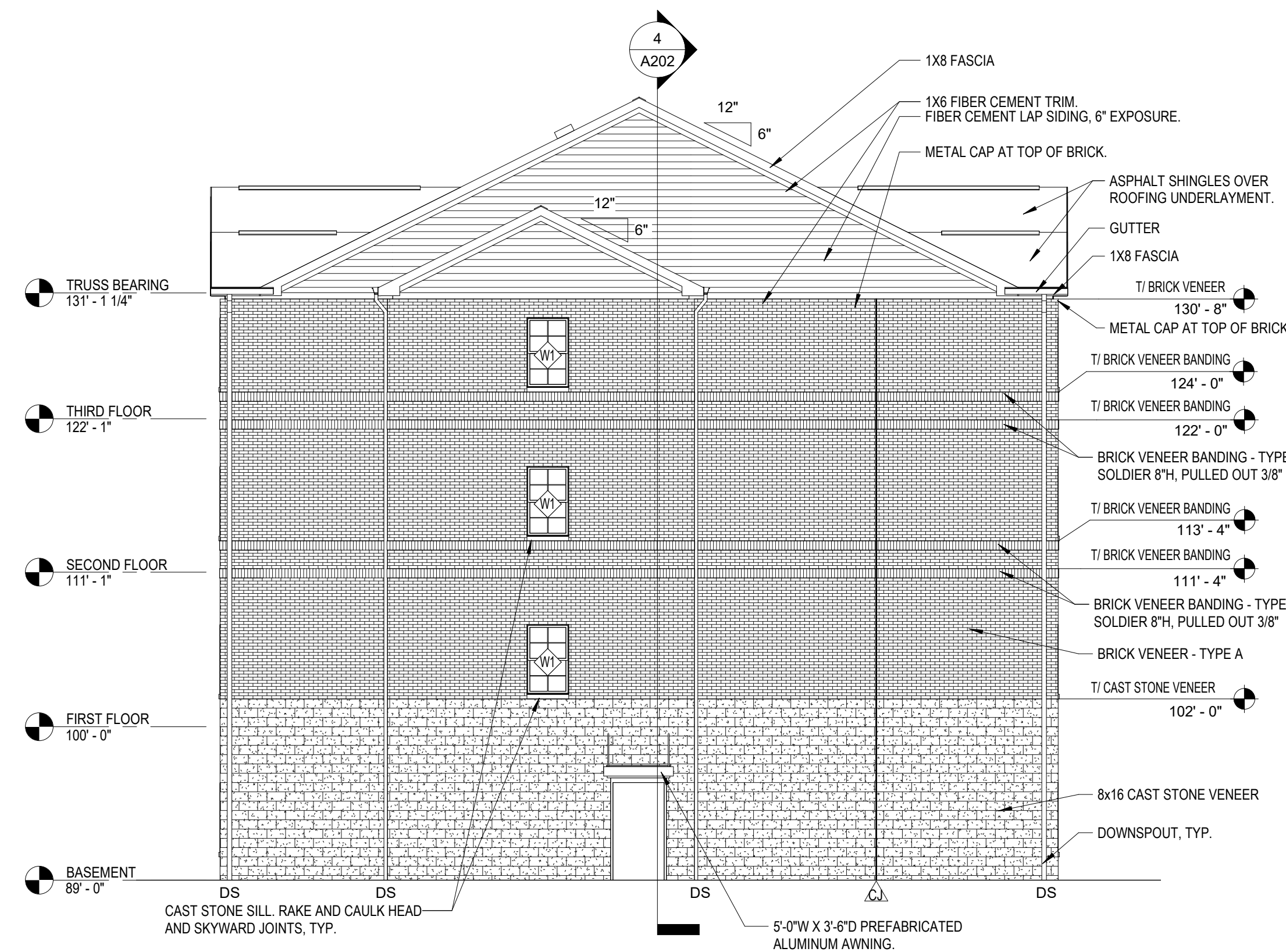
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GENERAL NOTES - ELEVATIONS

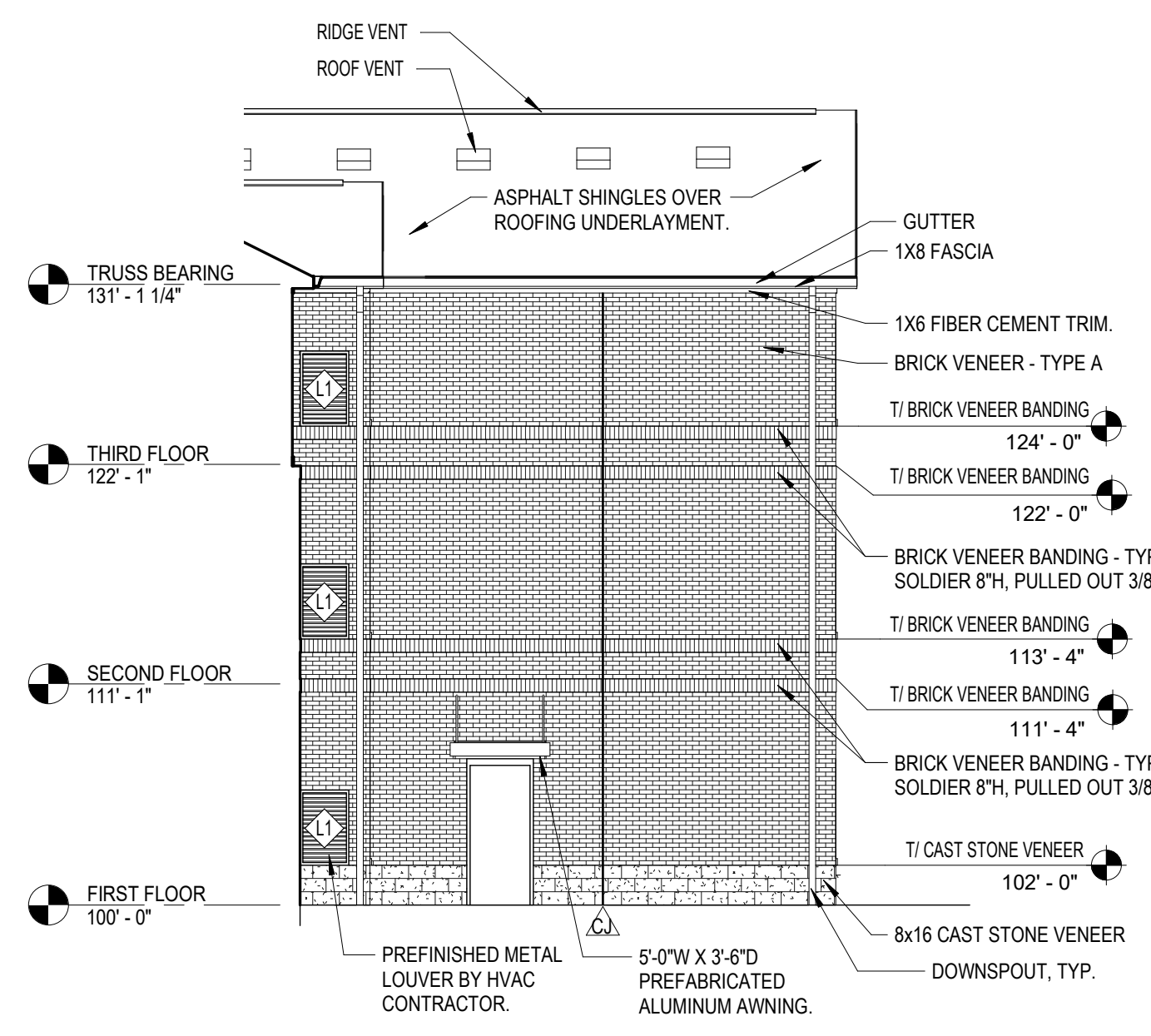
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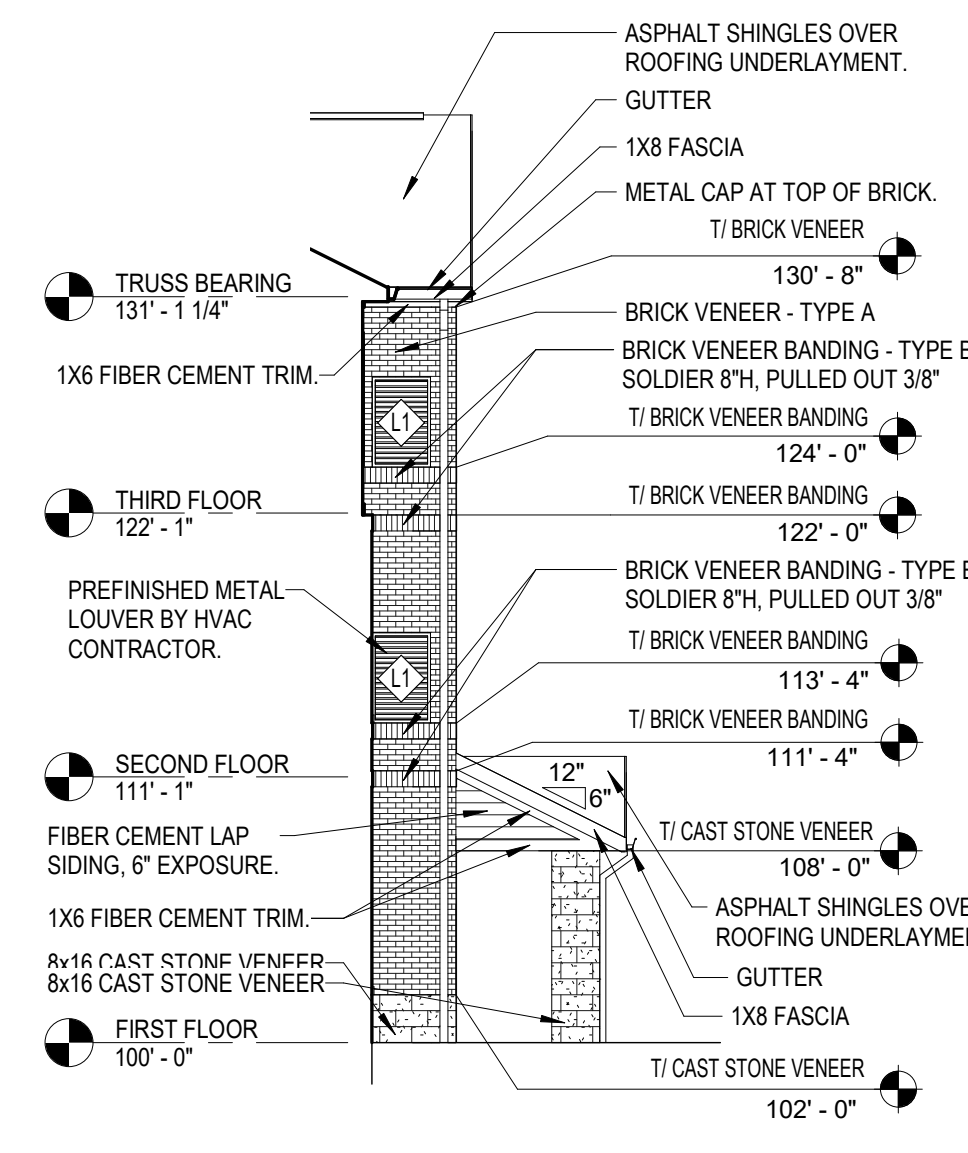
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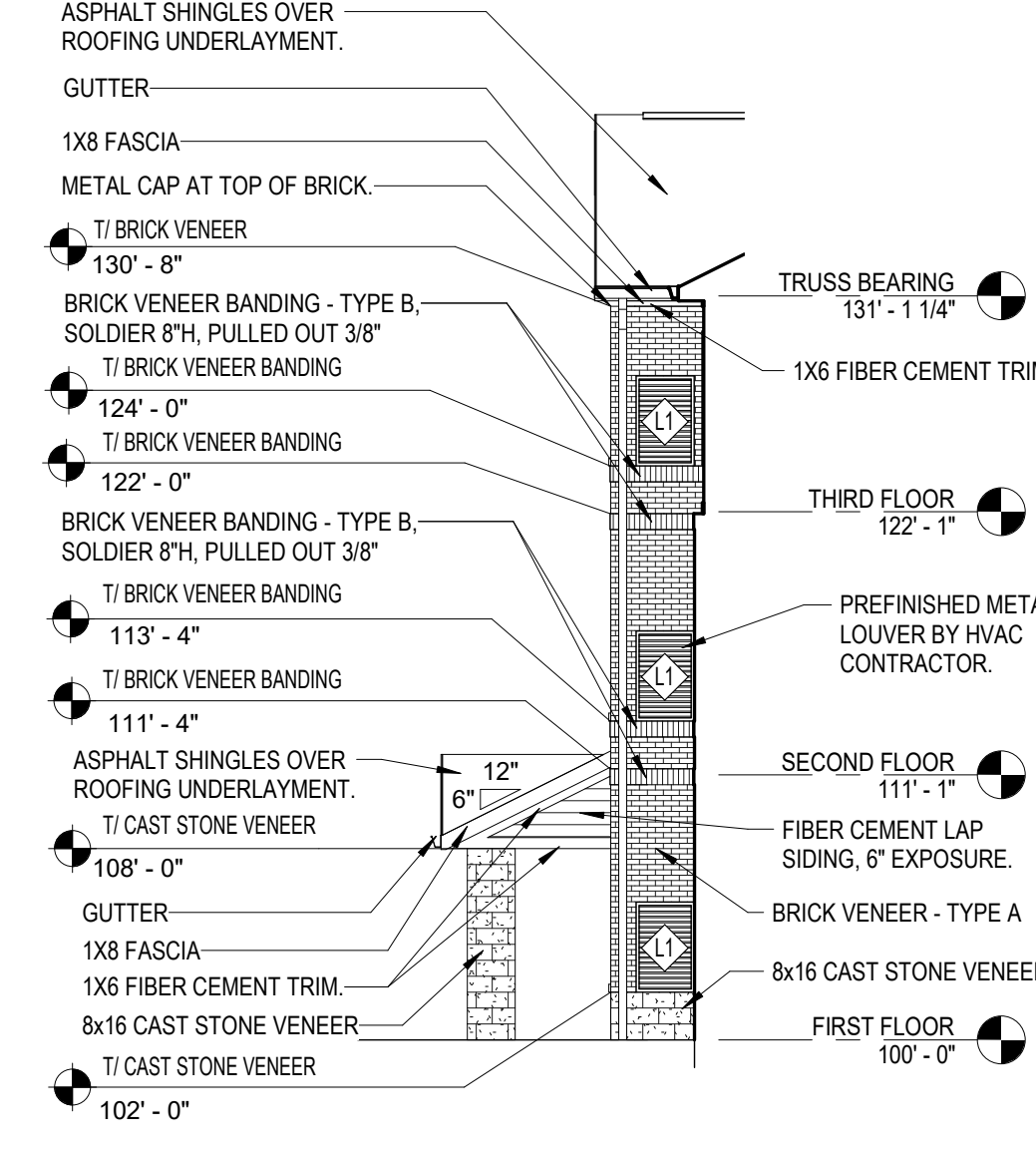
2 WEST ELEVATION
A201 SCALE: 1/8" = 1'-0"



3 PARTIAL WEST ELEVATION
A201 SCALE: 1/8" = 1'-0"



4 ELEVATION
A201 SCALE: 1/8" = 1'-0"



5 ELEVATION
A201 SCALE: 1/8" = 1'-0"



EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

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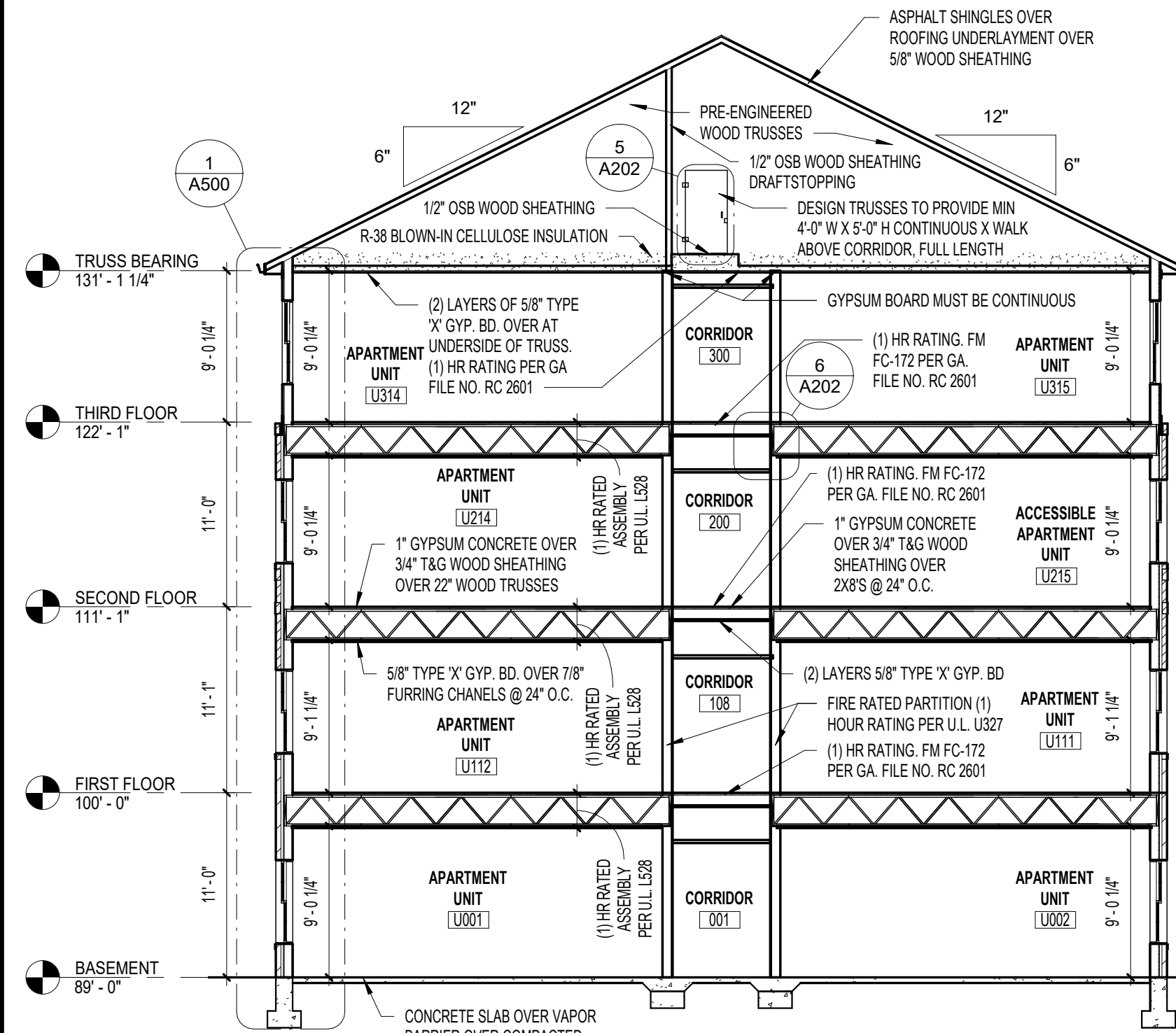
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80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

EXTERIOR ELEVATIONS

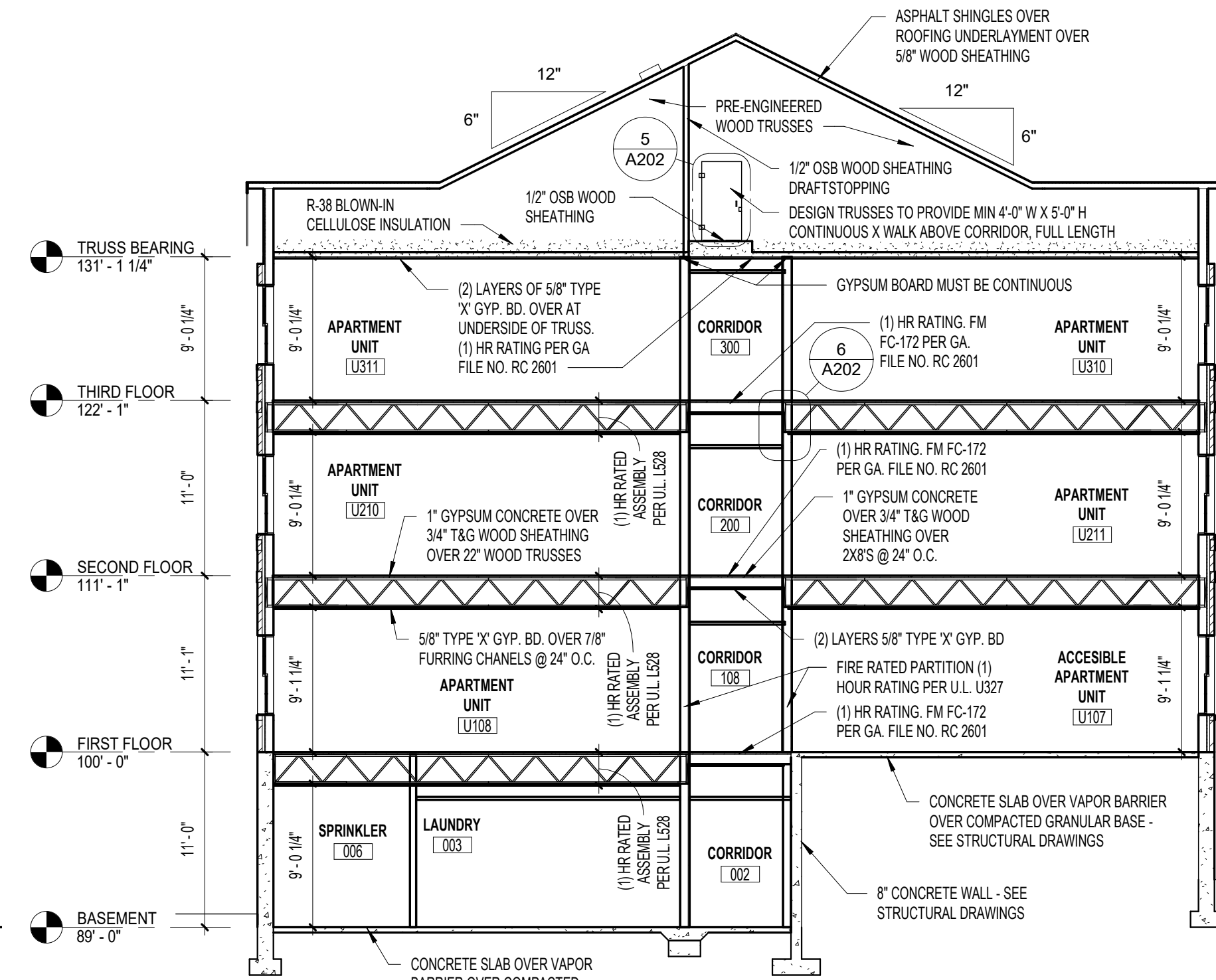
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A201

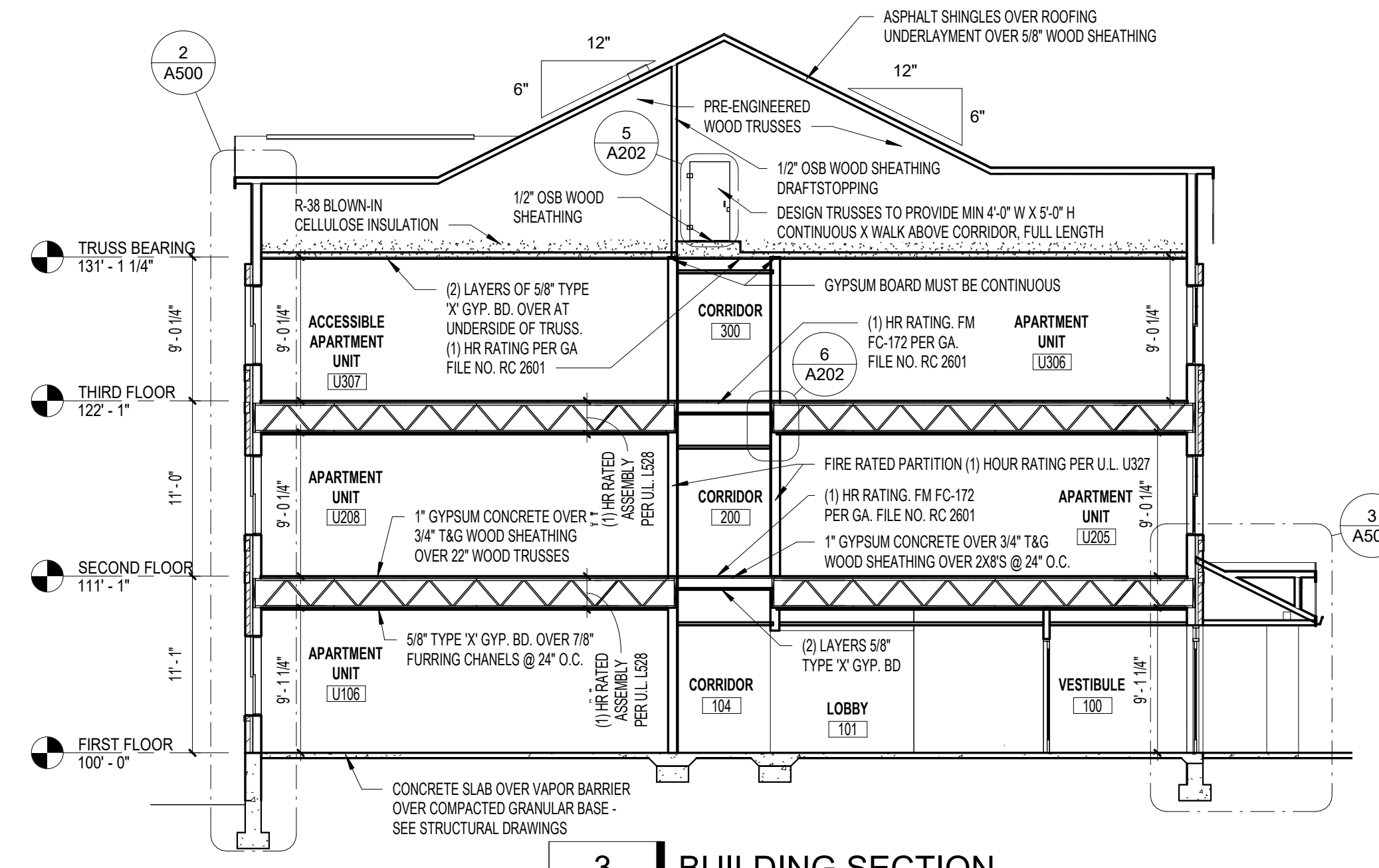
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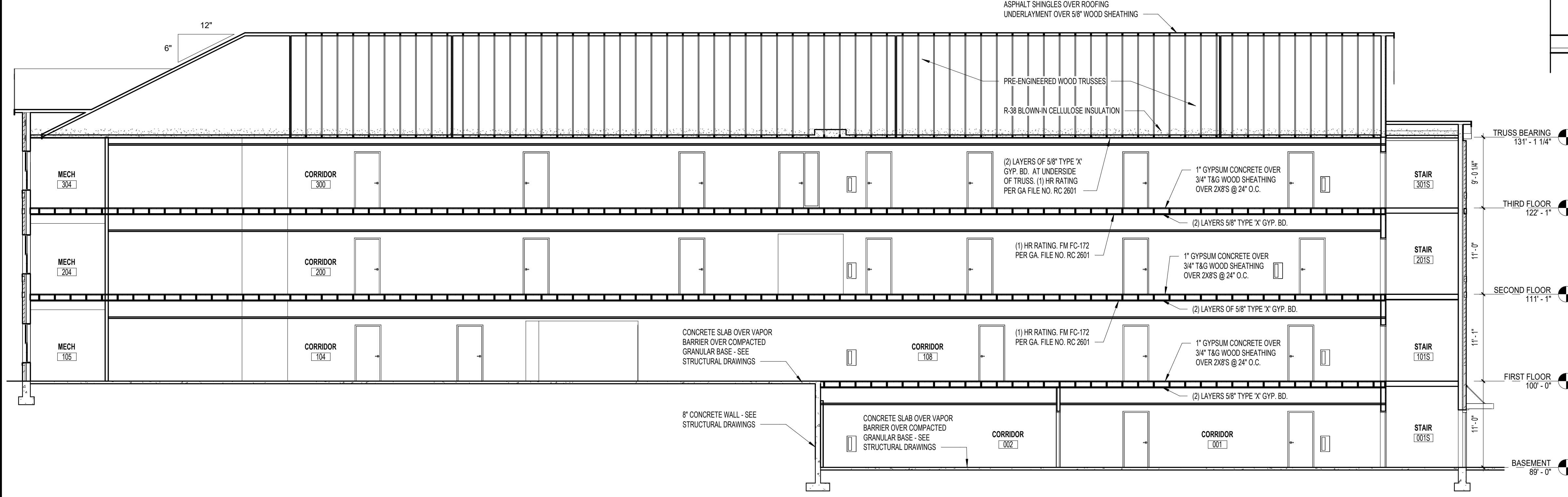
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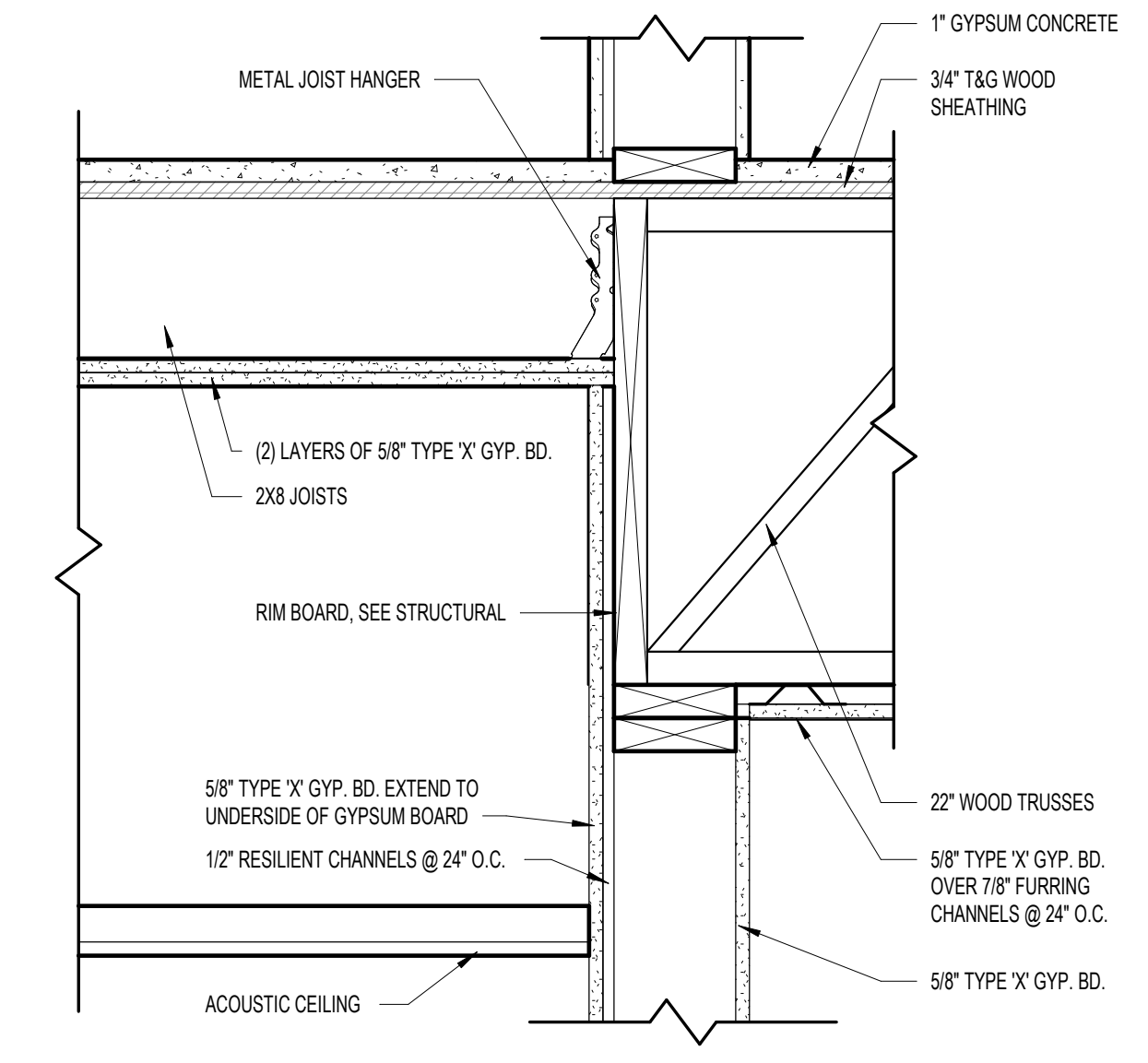
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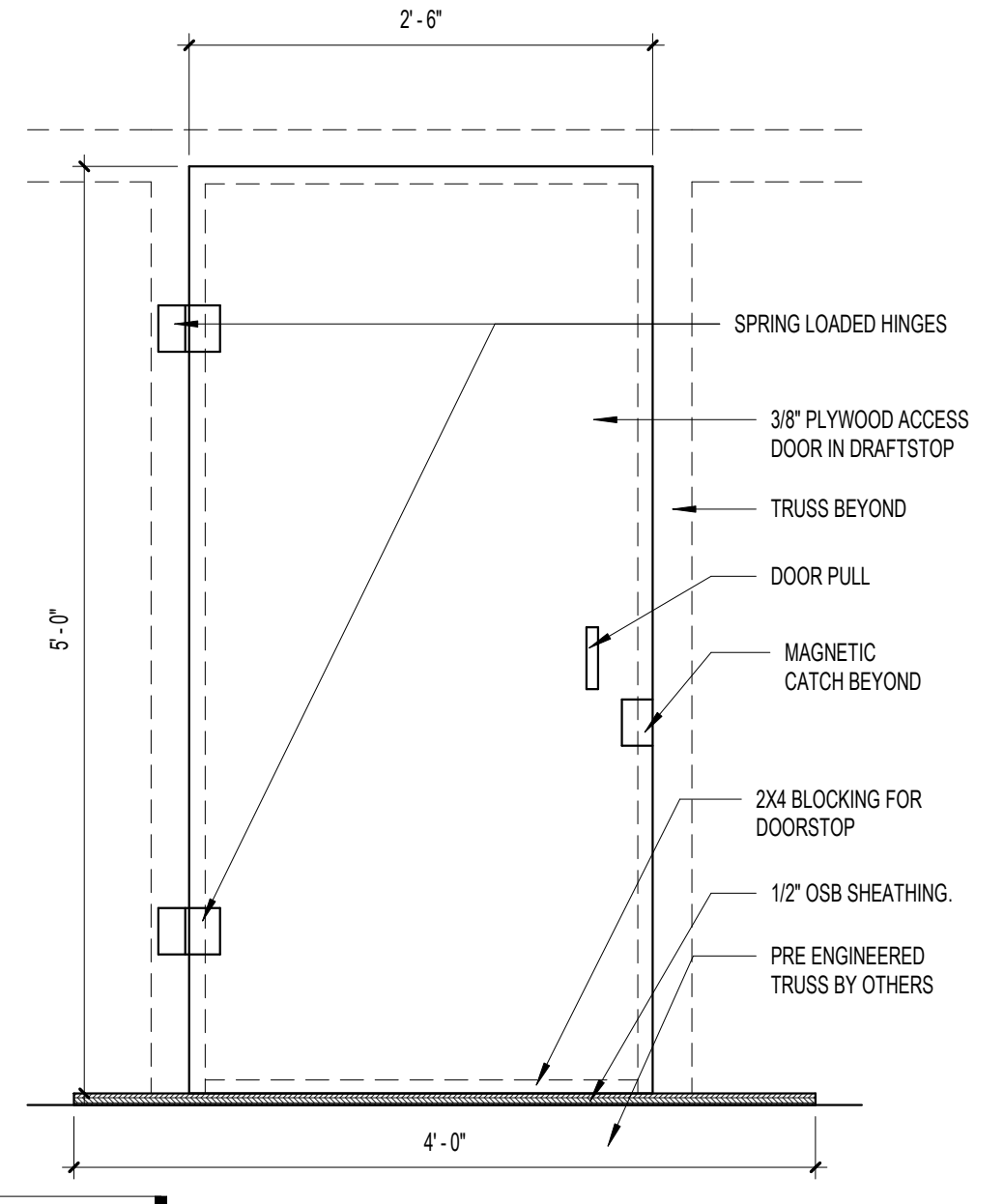
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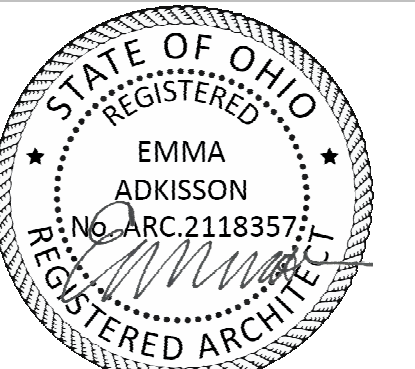
4 BUILDING SECTION
A202 SCALE: 1/8" = 1'-0"



6 DETAIL AT CORRIDOR
A202 SCALE: 1 1/2" = 1'-0"



5 ACCESS DOOR DETAIL
A202 SCALE: 1" = 1'-0"



EMMA ADKISSON, LIC# 2118357
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Cincinnati, OH 45206

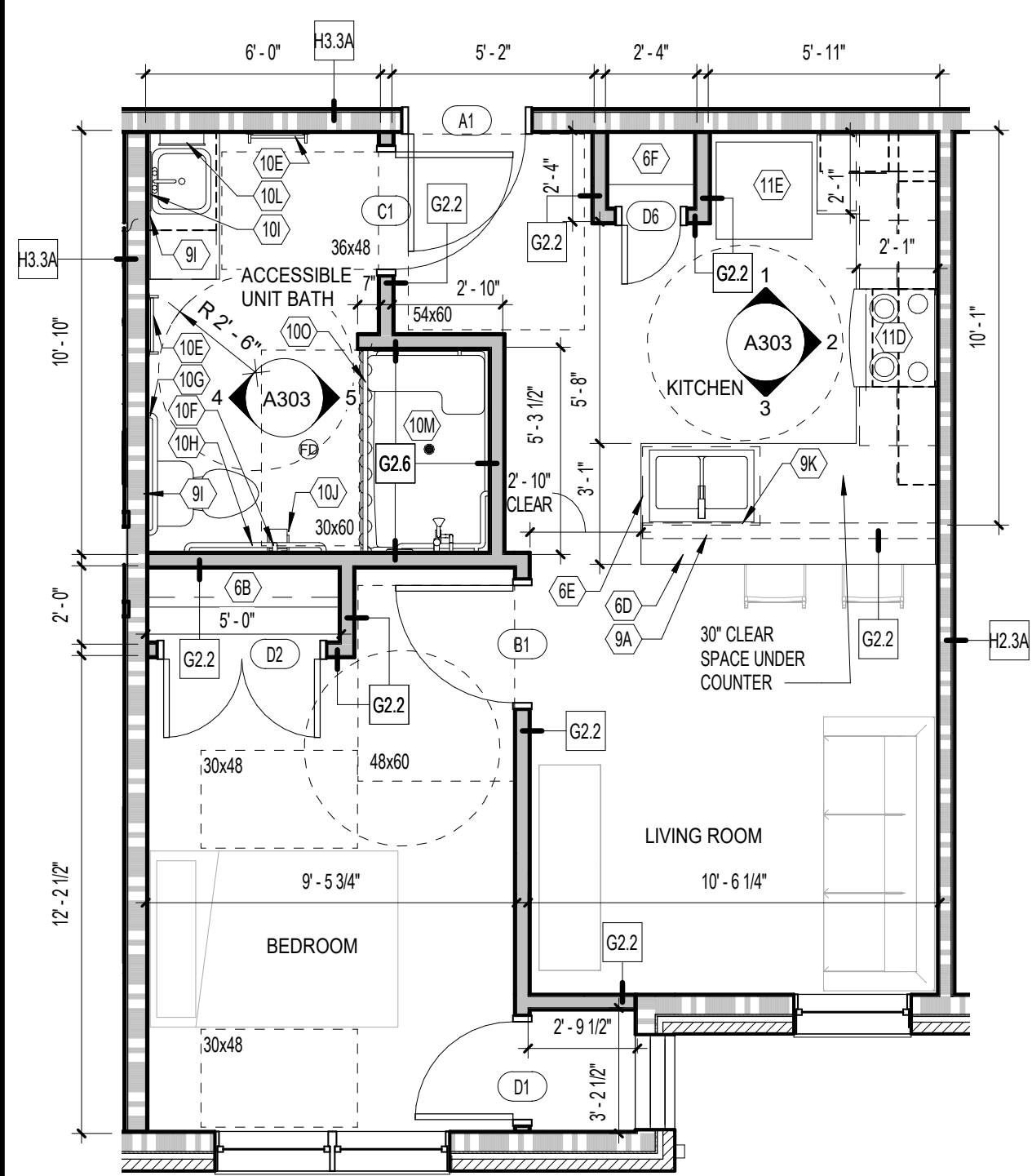
NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

BUILDING SECTIONS

21-116

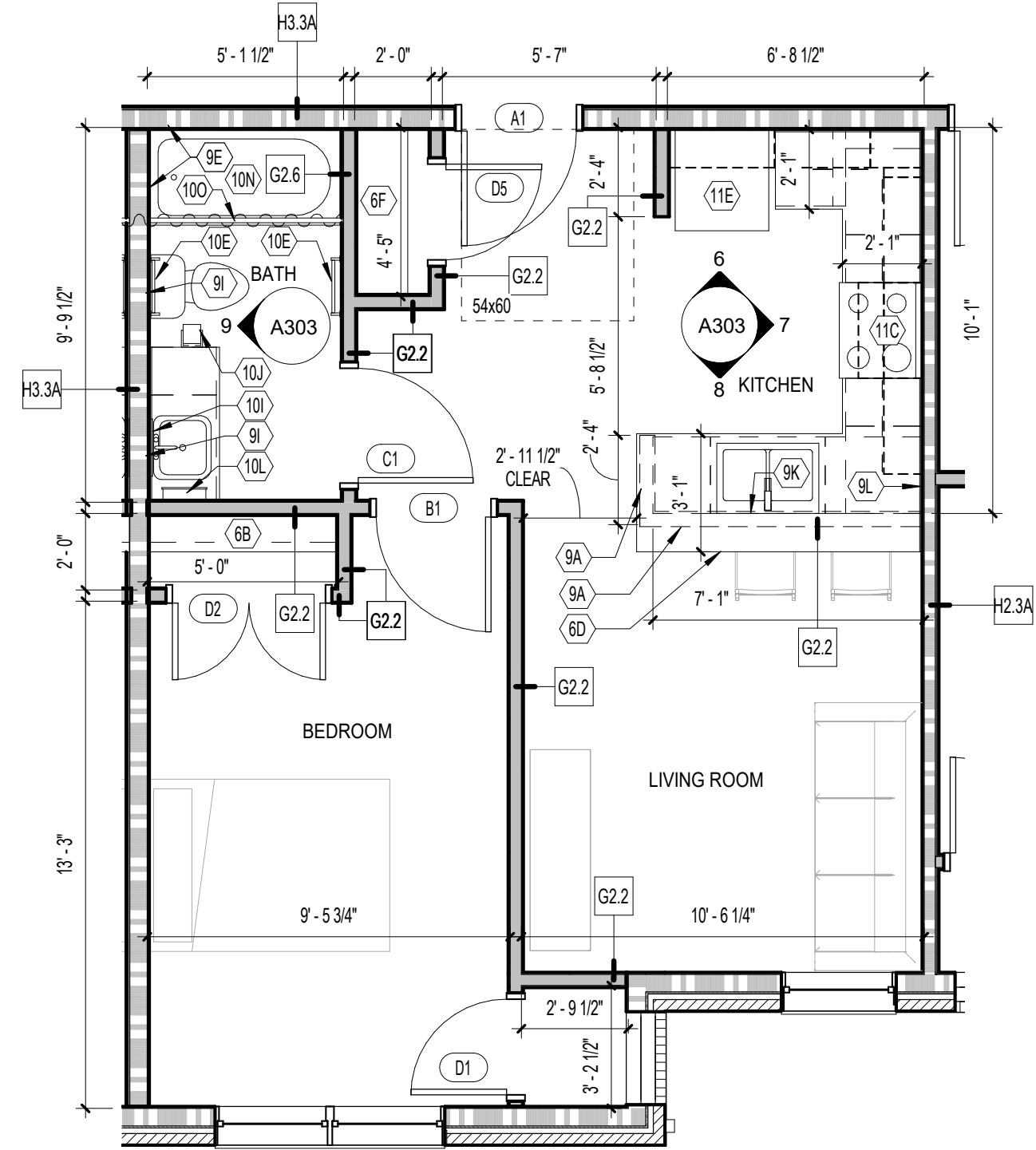
A202

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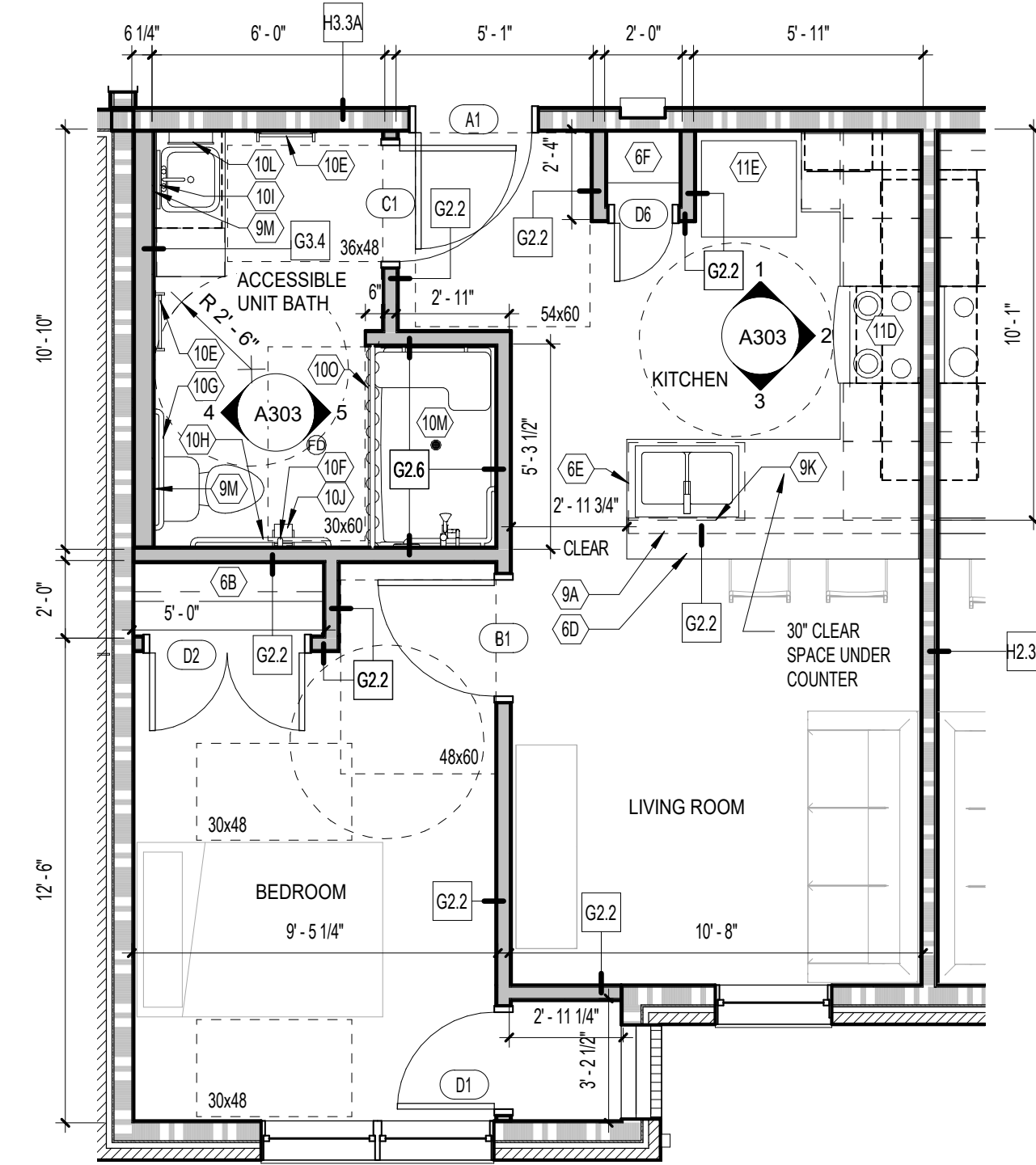
U107, U307

1 ENLARGED FLOOR PLAN
ONE BEDROOM ACCESSIBLE APARTMENT
A301 SCALE: 1/4" = 1'-0"



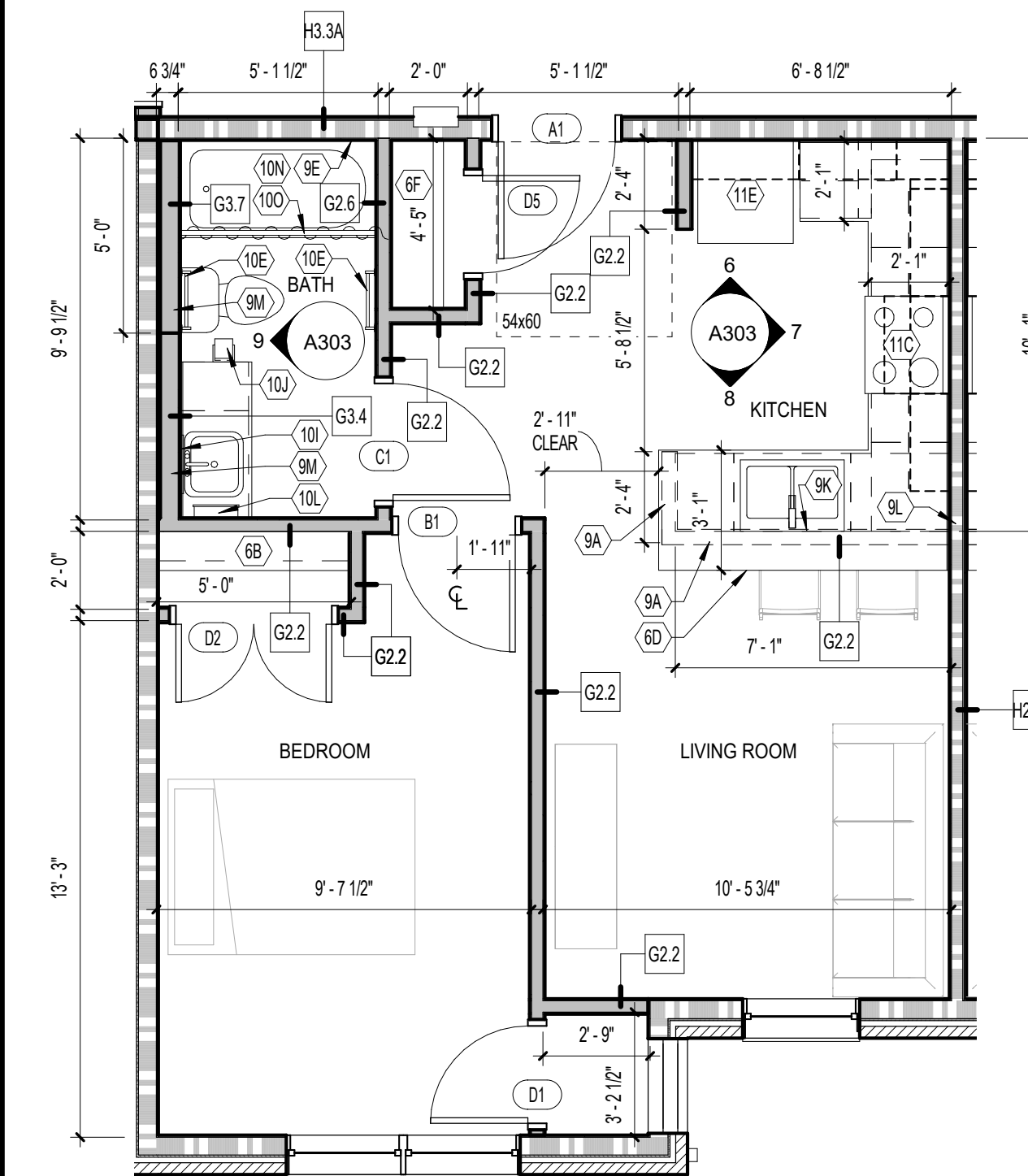
U003, U004, U103, U105, U106, U108, U109, U110, U203, U205, U206, U207, U208, U210, U211, U212, U213, U303, U305, U306, U308, U310, U311, U312, U313

2 ENLARGED FLOOR PLAN
TYP. ONE BEDROOM APARTMENT
A301 SCALE: 1/4" = 1'-0"



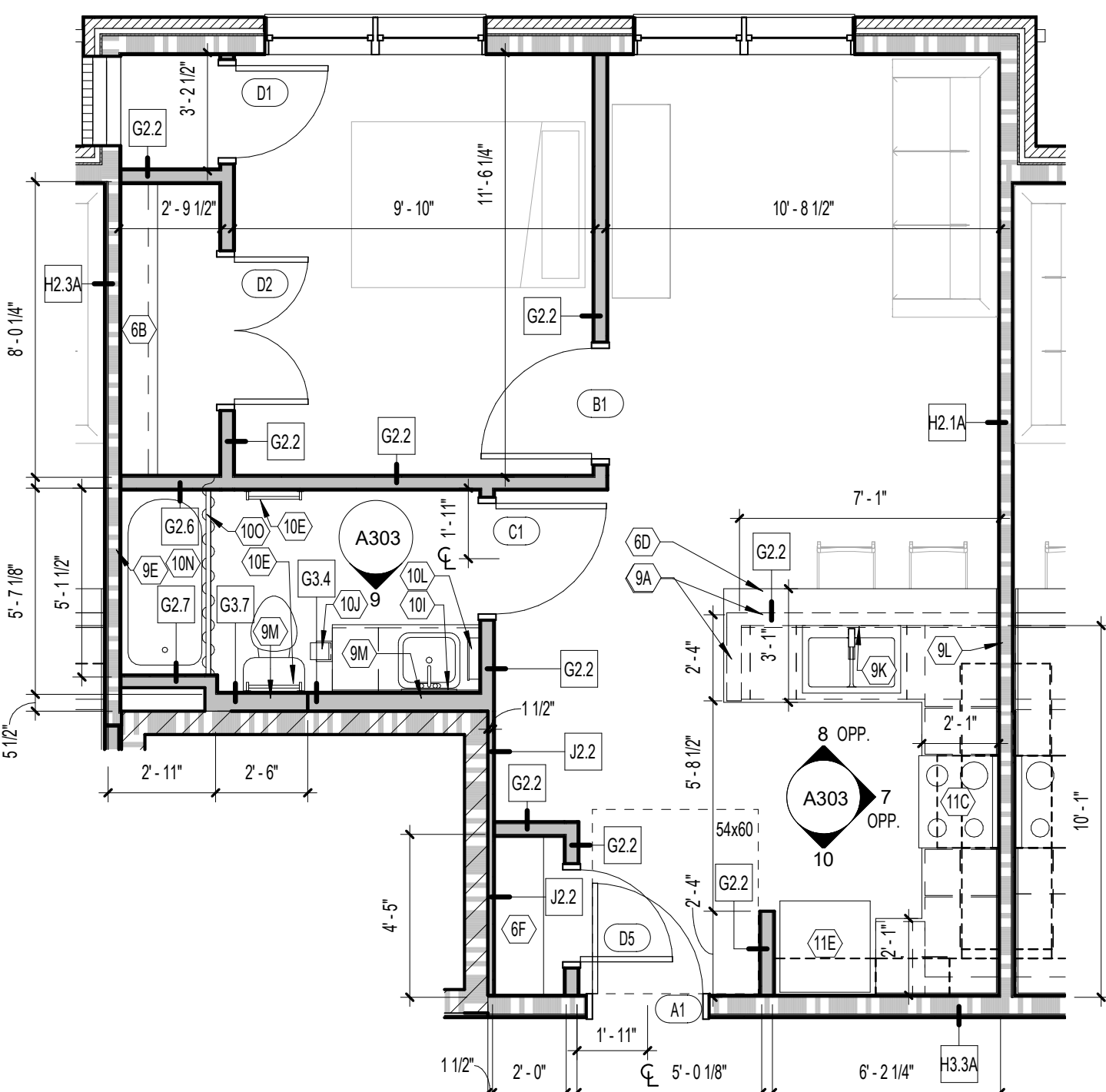
U215

3 ENLARGED FLOOR PLAN
ONE BEDROOM ACCESSIBLE APARTMENT
A301 SCALE: 1/4" = 1'-0"



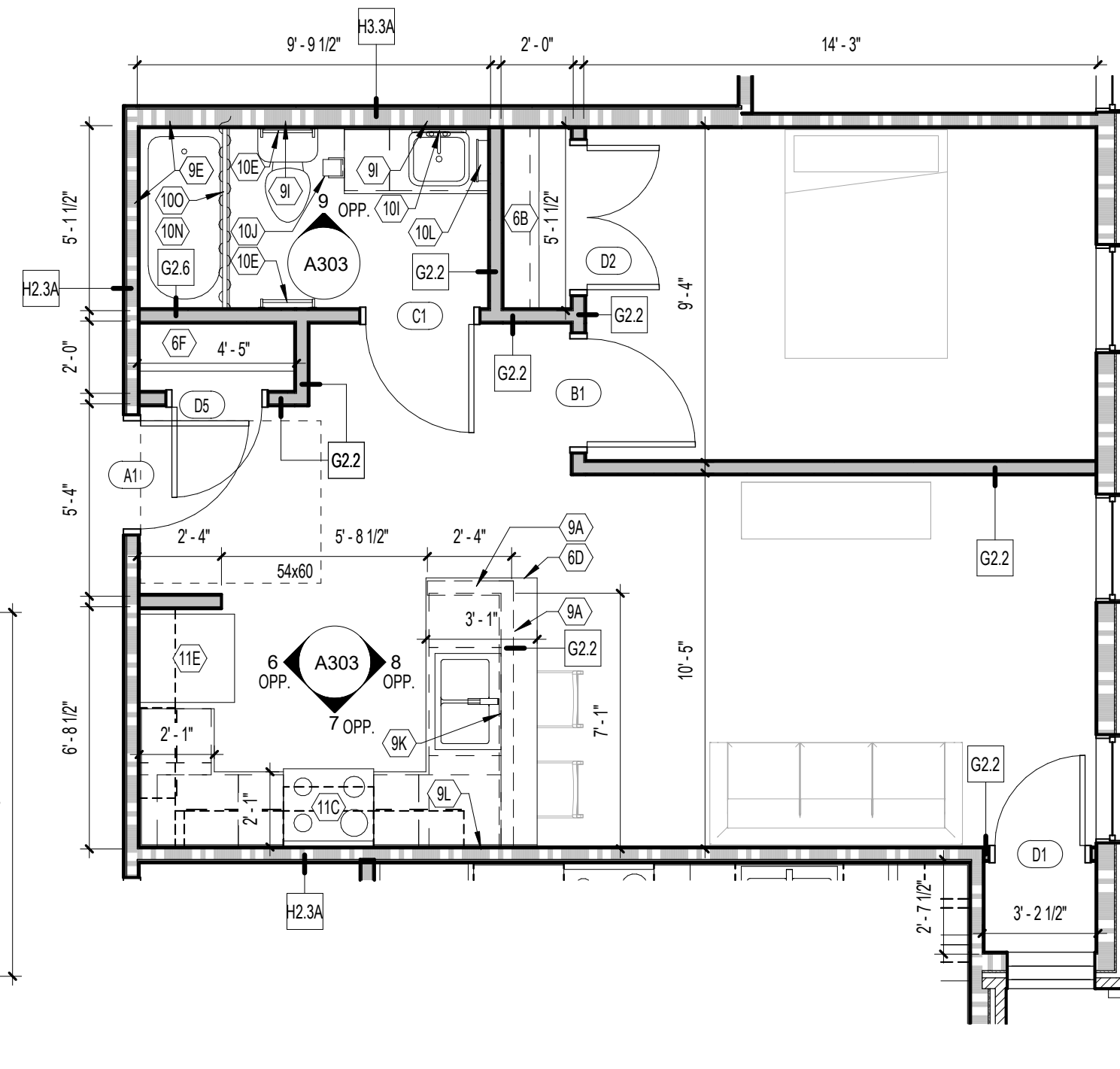
U001, U002, U111, U112, U214, U314, U315

4 ENLARGED FLOOR PLAN
ONE BEDROOM APARTMENT
A301 SCALE: 1/4" = 1'-0"



U209, U309

5 ENLARGED FLOOR PLAN
ONE BEDROOM APARTMENT
A301 SCALE: 1/4" = 1'-0"



U101, U201, U301

6 ENLARGED FLOOR PLAN
ONE BEDROOM APARTMENT
A301 SCALE: 1/4" = 1'-0"

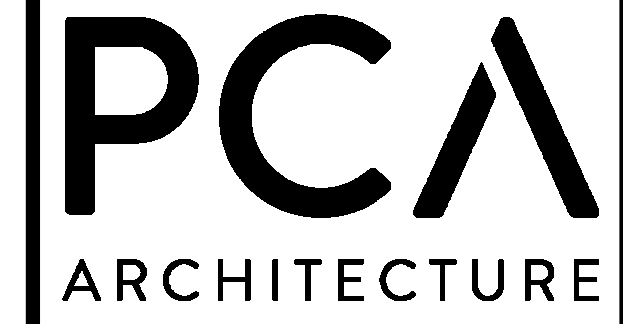
GENERAL NOTES - FLOOR PLANS

- A. ALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF MASONRY UNLESS NOTED OTHERWISE.
- B. SEE SHEET G102 FOR WALL TYPES
- C. PROVIDE BLOCKING IN WALLS AROUND TUB/SHOWER (ALL SIDES) AND TOILET FOR POTENTIAL FUTURE GRAB BARS
- D. PROVIDE 2x8 BLOCKING TOP AND BOTTOM OF ALL WALL CABINETS
- E. OFFSET NEW DOORS FROM ADJACENT PERPENDICULAR WALL 4" UNLESS INDICATED OTHERWISE
- F. PROVIDE UL LISTED FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING OF THE ASSEMBLY.
- G. WASHERS AND DRYERS SHALL BE ENERGY STAR RATED.
- H. PROVIDE 1/2" SOLID ACRYLIC RESIN WINDOW STOOL EXTENDING 1/2" BEYOND FACE OF GYPSUM AT ALL WINDOWS.
- I. A RADON MITIGATION SYSTEM WILL BE PROVIDED UNDER SEPARATE CONTRACT. COORDINATE PIPE RUNS FOR THIS SYSTEM WITH MEP EQUIPMENT AND WALL WHERE POSSIBLE. PIPES SHALL BE LOCATED IN NEW WALLS, WHERE NOT POSSIBLE TO LOCATE PIPES WITHIN CURRENTLY SHOWN WALLS, PIPES SHALL BE BOXED OUT TO MINIMUM DIMENSION.

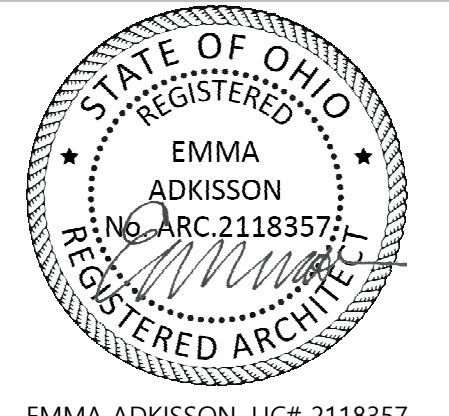
SHEET KEYNOTES

- 6B COAT ROD AND 12" DEEP WIRE SHELF. AT ACCESSIBLE UNITS THE SHELF SHALL BE 48" A.F.F.
- 6C PLASTIC LAMINATE COUNTER.
- 6D FINISH END OF BASE CABINET.
- 6F (5) 16" DEEP ADJUSTABLE SHELVES TO EXTEND FROM 12"-72". WIRE SHELVES STANDARD.
- 9A KNEE WALL BELOW COUNTER
- 9E PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD ON THIS FACE OF RATED WALL AT TUB/SHOWER SURROUNDS IN ACCORDANCE WITH UL RATED WALL ASSEMBLY. WHERE SURROUND IS NEXT TO TOILET, EXTEND MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD AT SAME HEIGHT TO SPACE BETWEEN, BEHIND, AND ABOVE TOILET.
- 9I PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD ON THIS FACE OF RATED WALL TO A HEIGHT OF 4'-0" BEHIND SINK/TOILET IN ACCORDANCE WITH UL RATED WALL ASSEMBLY.
- 9K PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD THIS FACE AT WALL BEHIND SINK TO A HEIGHT OF 4'-0" (OR TOP OF KNEE WALL WHERE APPLICABLE). REMAINDER OF WALL FACE TO BE MOISTURE-RESISTANT GYPSUM BOARD.
- 9L PROVIDE 5/8" MOISTURE-RESISTANT GYPSUM BOARD ON THIS FACE OF WALL AT PORTIONS OF WALL WITHIN 4'-0" OF SINK HORIZONTALLY AND VERTICALLY.
- 9M PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD ON THIS FACE OF WALL TO A HEIGHT OF 4'-0" BEHIND SINK/TOILET.
- 10E 18" TOWEL BAR
- 10F 18" VERTICAL GRAB BAR
- 10G 36" GRAB BAR
- 10H 42" GRAB BAR
- 10I 18"x30" MIRROR CENTERED OVER SINK
- 10J TOILET TISSUE DISPENSER EQUAL TO BOBRICK #2888
- 10K SURFACE MOUNTED MEDICINE CABINET
- 10L 33" POLYURETHANE FIBERGLASS ROLL-IN ICC ANS I 117.1 COMPLIANT SHOWER BASE & WALL SURROUND (STERLING #OC-S-63, SERIES #6206 OR EQUAL PROVIDING MIN. 30"x60" CLEAR), GRAB BARS, AND FOLDING SEAT
- 10N PROVIDE ADA COMPLIANT BATHTUB AND FIBERGLASS WALL SURROUND
- 10O SHOWER CURTAIN AND ROD
- 11C ELECTRIC RANGE - FRIGIDAIRE #FFEF3009P OR EQUAL
- 11D ADA COMPLIANT DROP-IN ELECTRIC RANGE - FRIGIDAIRE #FFED3015P OR EQUAL. CONTROLS FOR OVEN AND RANGE TO BE LOCATED ON FRONT OF RANGE TO AVOID REACHING OVER BURNERS.
- 11E ADA COMPLIANT ENERGY STAR QUALIFIED REFRIGERATOR - FRIGIDAIRE #FT1814Q OR EQUAL. AT LEAST 505 OF FREEZER SHELVES, INCLUDING BOTTOM OF THE FREEZER, 54" MAXIMUM ABOVE THE FLOOR WHEN THE SHELVES ARE INSTALLED AT MAXIMUM HEIGHTS POSSIBLE

Type Mark	Description	Fire Rating
C1.2	NEW FURRING: 5/8" GYPSUM BOARD (ONE SIDE) OVER 7/8" X 20 GA. HAT CHANNELS AT 16" O.C.	-
G2.2	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.2A	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.4	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.4A	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
G2.6	5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) AND 5/8" GYPSUM BOARD (NON-TUB/SHOWER SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.7	NEW PARTITION: 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.2	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.4	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.7	NEW PARTITION: 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G4.1	5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF GYPSUM BOARD CEILING. WALL MUST BE SMOKE TIGHT	SMOKE
H2.1	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H2.1A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H2.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J301: (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	2
H2.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H3.1A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H3.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J301: (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	2
H3.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
J2.2	5/8" GYPSUM BOARD (ONE SIDE) OVER 2X4 WOOD FURRING SIDE FRAMED AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF GYPSUM BOARD CEILING.	-
M3.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J905: 8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	2



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NEWPORT, KY 41071
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859.431.8612



EMMA ADKISON, LIC# 2118357
EXPIRATION DATE 12/31/2023

**GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES PSH**

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Cincinnati, OH 45206

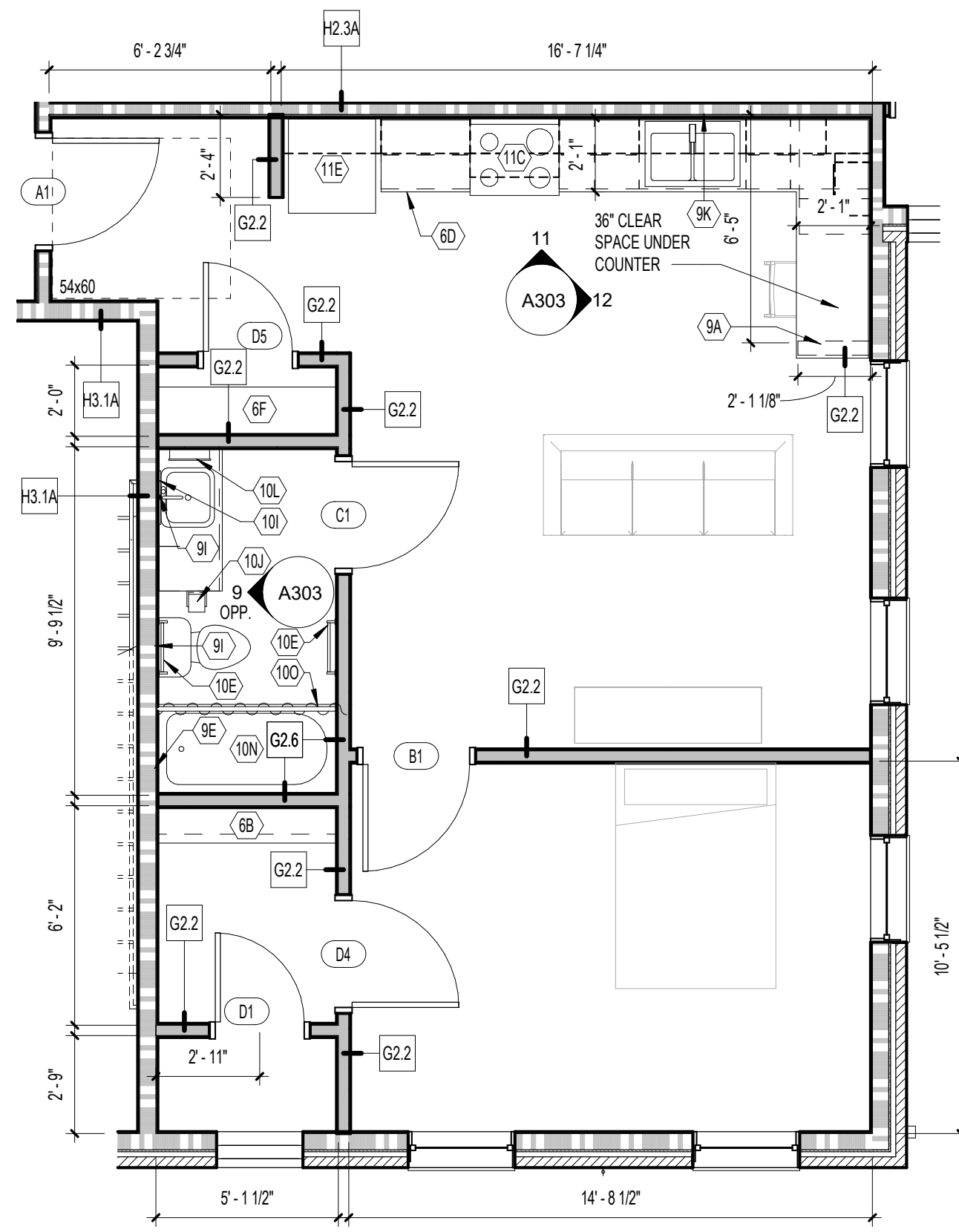
NO.	DESCRIPTION	DATE
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ENLARGED PLANS

21-116

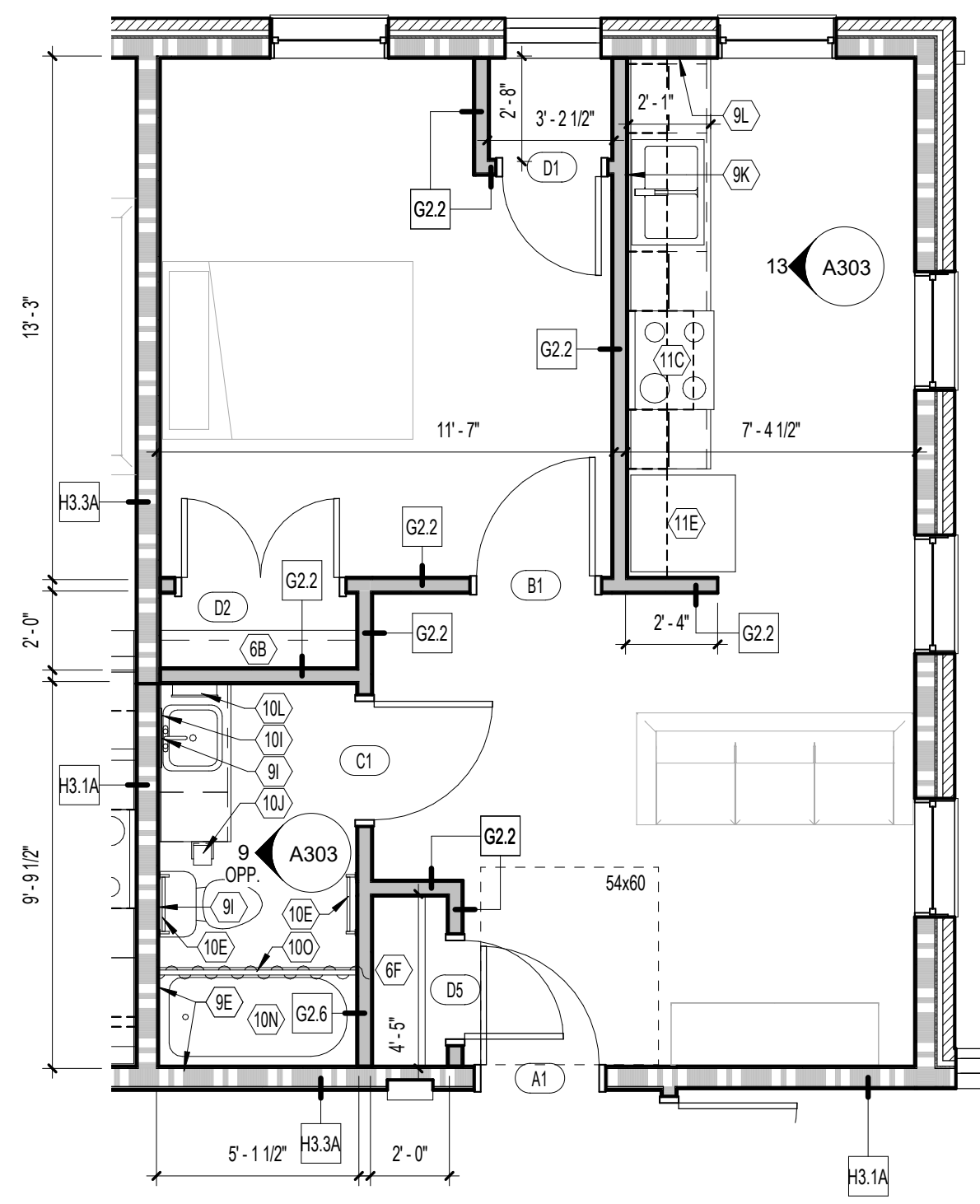
A301

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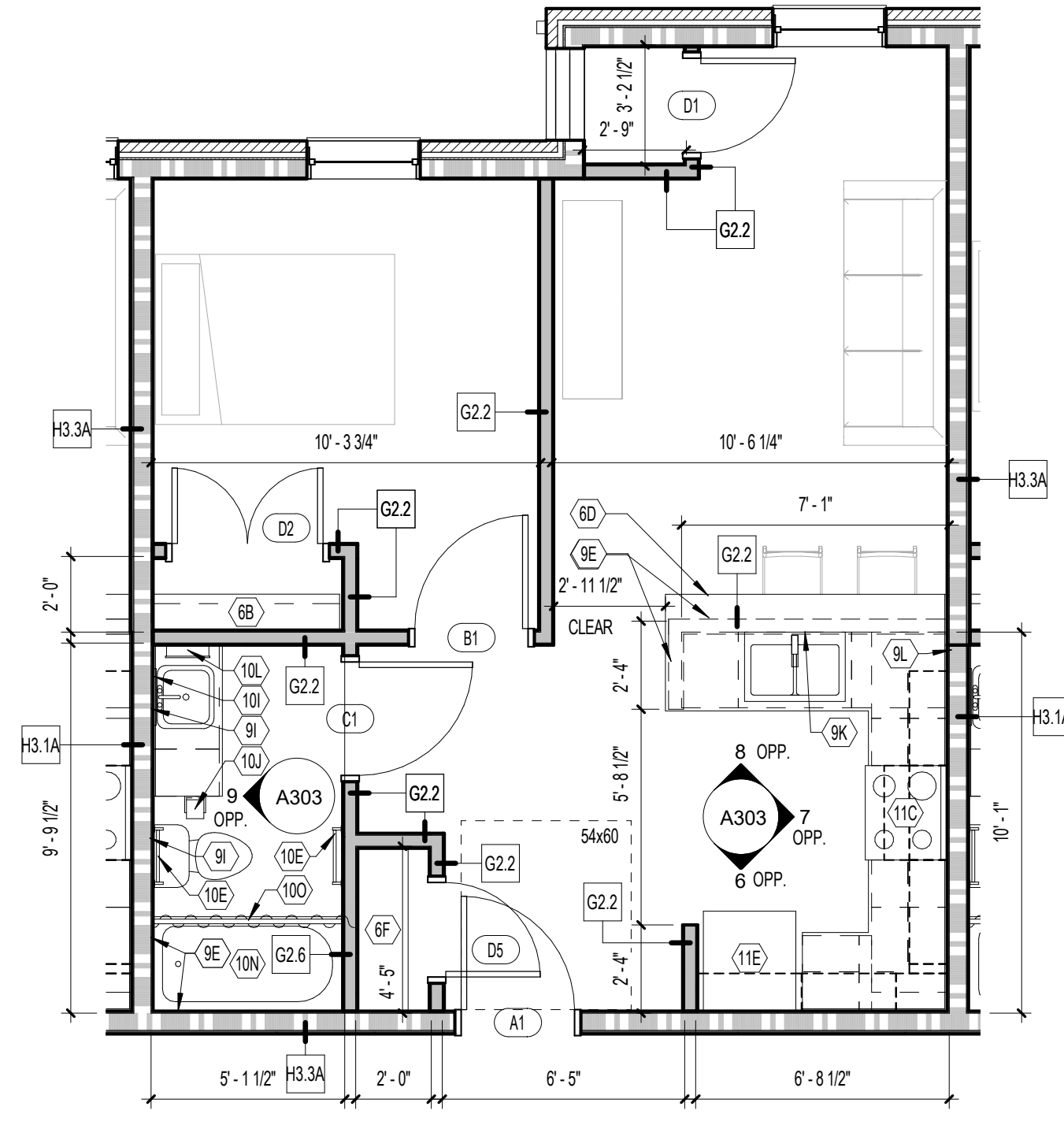
U100, U200, U300

1 ENLARGED FLOOR PLAN
ONE BEDROOM APARTMENT
A302 SCALE: 1/4" = 1'-0"



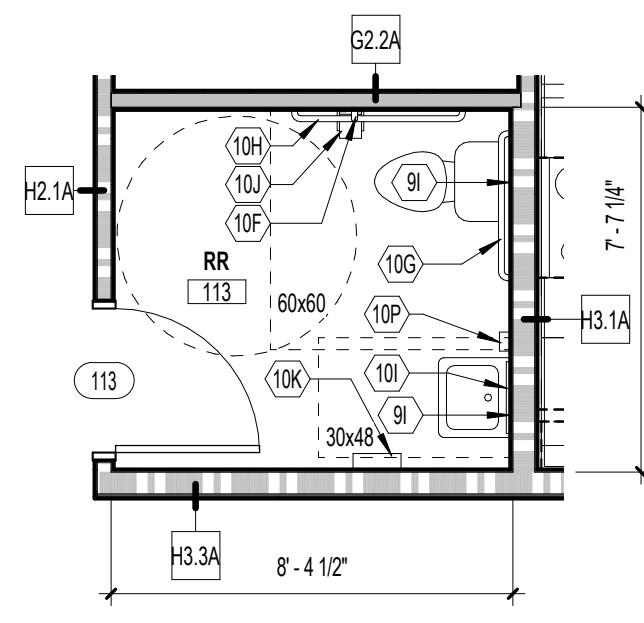
U102, U202, U302

2 ENLARGED FLOOR PLAN
ONE BEDROOM APARTMENT
A302 SCALE: 1/4" = 1'-0"



U104, U204, U304

3 ENLARGED FLOOR PLAN
ONE BEDROOM APARTMENT
A302 SCALE: 1/4" = 1'-0"



4 ENLARGED RESTROOM PLAN
A302 SCALE: 1/4" = 1'-0"

GENERAL NOTES - FLOOR PLANS

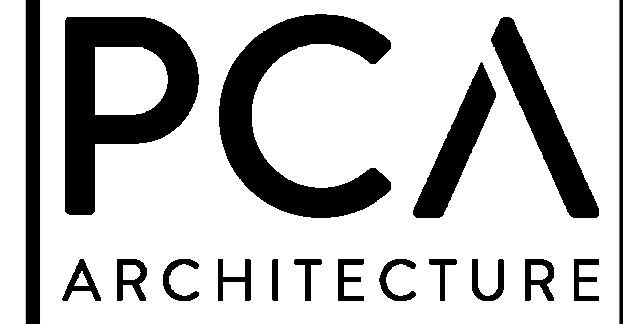
- A. ALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF MASONRY UNLESS NOTED OTHERWISE.
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- C. PROVIDE BLOCKING IN WALLS AROUND TUB/SHOWER (ALL SIDES) AND TOILET FOR POTENTIAL FUTURE GRAB BARS
- D. PROVIDE 2x8 BLOCKING TOP AND BOTTOM OF ALL WALL CABINETS
- E. OFFSET NEW DOORS FROM ADJACENT PERPENDICULAR WALL 4" UNLESS INDICATED OTHERWISE
- F. PROVIDE UL LISTED FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING OF THE ASSEMBLY.
- G. WASHERS AND DRYERS SHALL BE ENERGY STAR RATED.
- H. PROVIDE 1/2" SOLID ACRYLIC RESIN WINDOW STOOL EXTENDING 1/2" BEYOND FACE OF GYPSUM AT ALL WINDOWS.
- I. A RADON MITIGATION SYSTEM WILL BE PROVIDED UNDER SEPARATE CONTRACT. COORDINATE PIPE RUNS FOR THIS SYSTEM WITH MEP EQUIPMENT AND WALL. WHERE POSSIBLE, PIPES SHALL BE LOCATED IN NEW WALLS. WHERE NOT POSSIBLE TO LOCATE PIPES WITHIN CURRENTLY SHOWN WALLS, PIPES SHALL BE BOXED OUT TO MINIMUM DIMENSION.

SHEET KEYNOTES

- 6B COAT ROD AND 12" DEEP WIRE SHELF. AT ACCESSIBLE UNITS THE SHELF SHALL BE 48" A.F.F.
- 6F PLASTIC LAMINATE COUNTER
- 6F (5) 18" DEEP ADJUSTABLE SHELVES TO EXTEND FROM 12"-72". WIRE SHELVES STANDARD.
- 9A KNEE WALL BELOW COUNTER
- 9E PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD ON THIS FACE OF RATED WALL AT TUB/SHOWER SURROUNDS IN ACCORDANCE WITH UL RATED WALL ASSEMBLY. WHERE SURROUND IS NEXT TO TOILET, EXTEND MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD AT SAME HEIGHT TO SPACE BETWEEN, BEHIND, AND ABOVE TOILET.
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- 9K PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD THIS FACE AT WALL BEHIND SINK TO A HEIGHT OF 4'-0" (OR TOP OF KNEE WALL WHERE APPLICABLE). REMAINDER OF WALL FACE TO BE MOISTURE-RESISTANT GYPSUM BOARD.
- 9L PROVIDE 5/8" MOISTURE-RESISTANT GYPSUM BOARD ON THIS FACE OF WALL AT PORTIONS OF WALL WITHIN 4'-0" OF SINK HORIZONTALLY AND VERTICALLY.
- 10E 18" TOWEL BAR
- 10F 18" VERTICAL GRAB BAR
- 10G 36" GRAB BAR
- 10H 42" GRAB BAR
- 10I 18"x30" MIRROR CENTERED OVER SINK
- 10J TOILET TISSUE DISPENSER EQUAL TO BOBRICK #2888
- 10K PAPER TOWEL DISPENSER/RECEPTACLE EQUAL TO BOBRICK #B-3699
- 10L SURFACE MOUNTED MEDICINE CABINET
- 10N PROVIDE ADA COMPLIANT BATHTUB AND FIBERGLASS WALL SURROUND
- 10O SHOWER CURTAIN AND ROD
- 10P SOAP DISPENSER
- 11C ELECTRIC RANGE - FRIGIDAIRE #FFEF3009P OR EQUAL
- 11E ADA COMPLIANT, ENERGY STAR QUALIFIED REFRIGERATOR - FRIGIDAIRE #FFT1814Q OR EQUAL. AT LEAST 50% OF FREEZER SHELVES, INCLUDING BOTTOM OF THE FREEZER, 54" MAXIMUM ABOVE THE FLOOR WHEN THE SHELVES ARE INSTALLED AT MAXIMUM HEIGHTS POSSIBLE

WALL TYPES

Type Mark	Description	Fire Rating
C1.2	NEW FURRING: 5/8" GYPSUM BOARD (ONE SIDE) OVER 7/8" X 20 GA. HAT CHANNELS AT 16" O.C.	-
G2.2	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.2A	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.4	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.4A	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
G2.6	5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) AND 5/8" GYPSUM BOARD (NON-TUB/SHOWER SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G2.7	NEW PARTITION: 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.2	NEW PARTITION: 5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.4	NEW PARTITION: 5/8" GYPSUM BOARD (ONE SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G3.7	NEW PARTITION: 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD (TUB/SHOWER SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	-
G4.1	5/8" GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF GYPSUM BOARD CEILING. WALL MUST BE SMOKE TIGHT	SMOKE
H2.1	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H2.1A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H2.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J301: (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X4 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	2
H2.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X4 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H3.1A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J305: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
H3.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J301: (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 2X6 WOOD STUDS AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	2
H3.3A	NEW (1) HOUR FIRE RATED PARTITION PER U.L. #J327: 5/8" TYPE 'X' GYPSUM BOARD (BOTH SIDES) OVER 1/2" RESILIENT CHANNEL @ 24" O.C. (ONE SIDE) OVER 2X6 WOOD STUDS AT 16" O.C. FILL STUD CAVITIES WITH SOUND ATTENUATION BATT. PARTITION SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.	1
J2.2	5/8" GYPSUM BOARD (ONE SIDE) OVER 2X4 WOOD FURRING SIDE FRAMED AT 16" O.C. PARTITION SHALL EXTEND TO UNDERSIDE OF GYPSUM BOARD CEILING.	-
M3.2	NEW (2) HOUR FIRE RATED PARTITION PER U.L. #J905: 8" CMU WALL WITH HORIZONTAL REINFORCING AT 16" O.C. VERTICALLY.	2



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EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

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Cincinnati, OH 45206

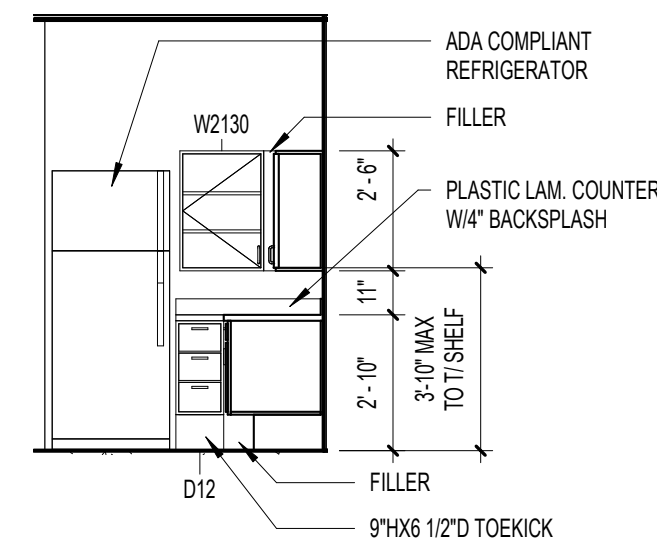
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80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

ENLARGED PLANS

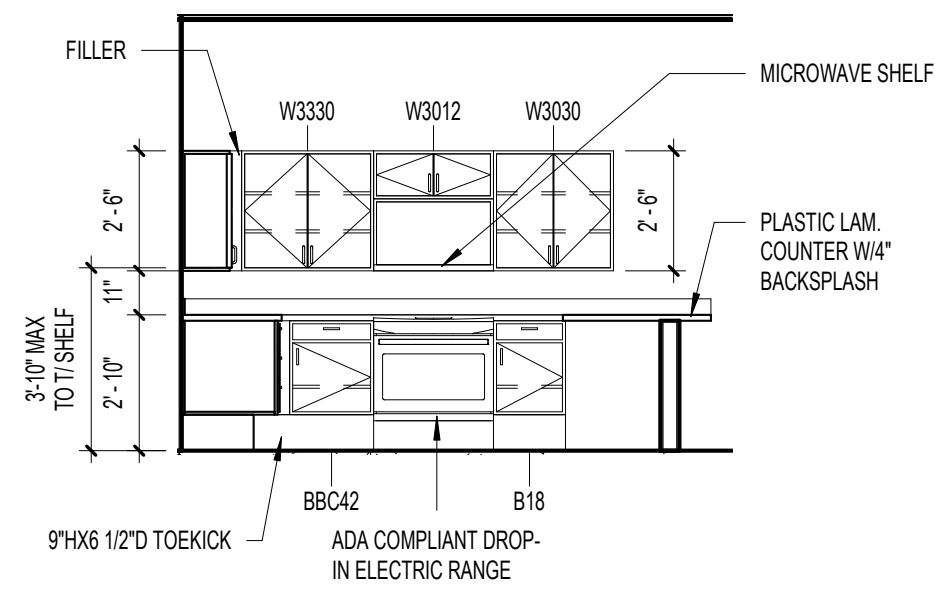
21-116

A302

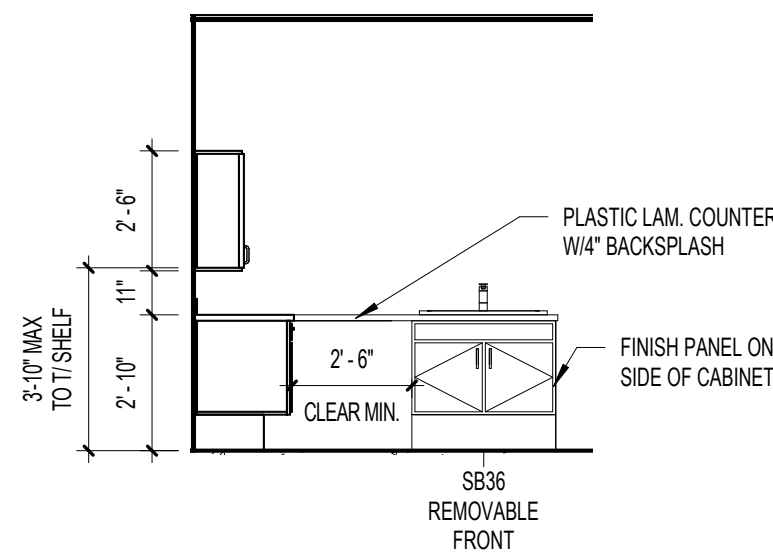
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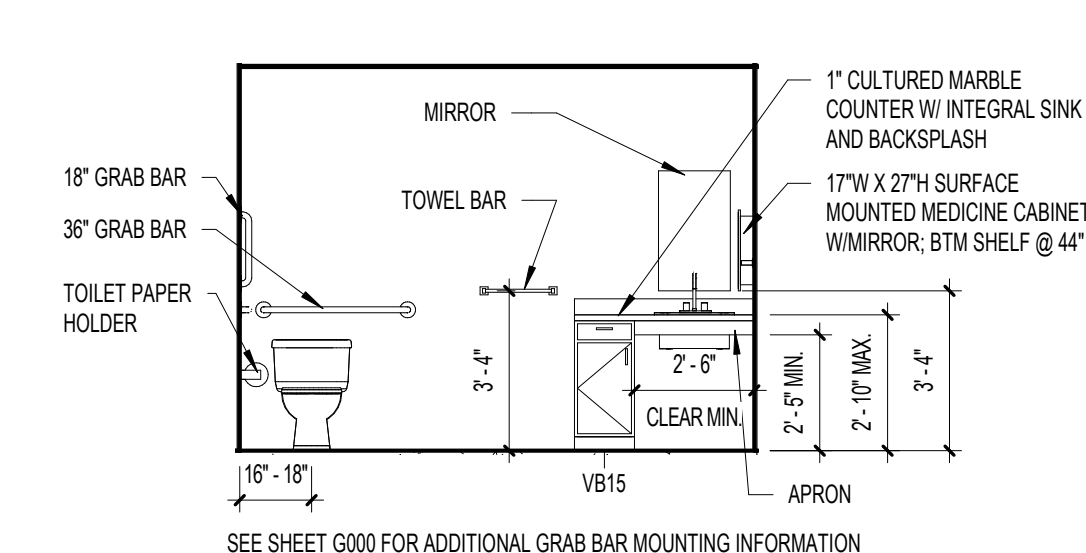
1 ELEVATION
A303 SCALE: 1/4" = 1'-0"



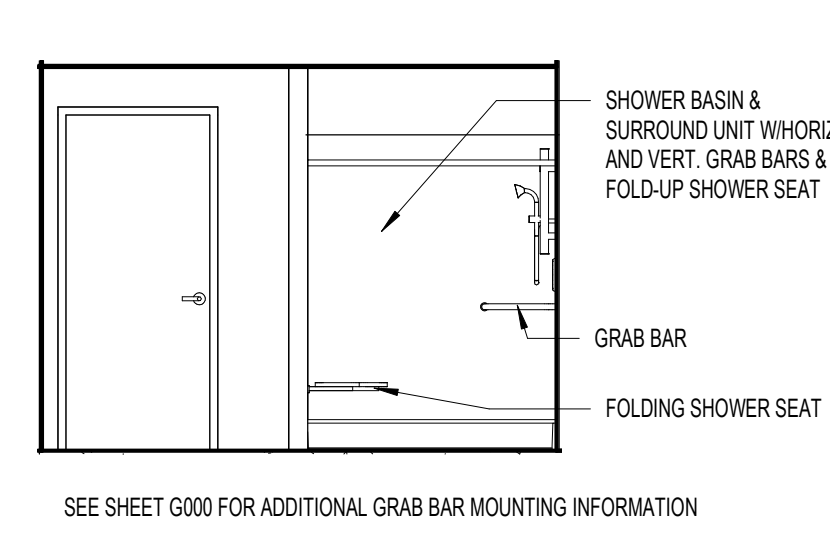
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A303 SCALE: 1/4" = 1'-0"



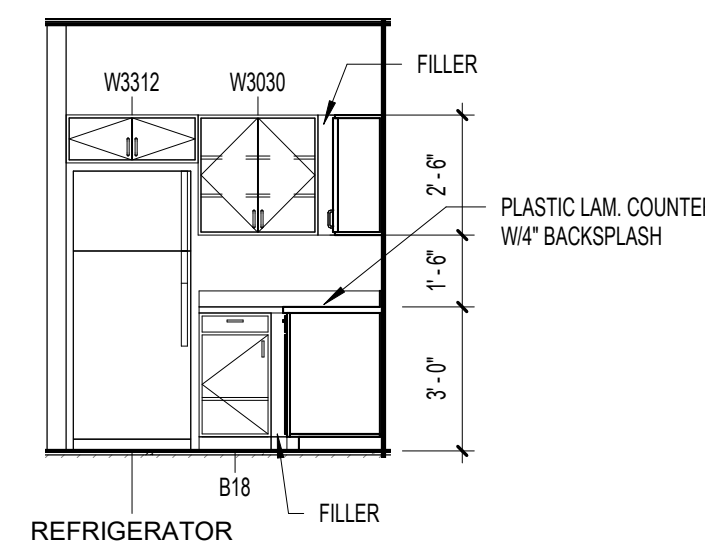
3 ELEVATION
A303 SCALE: 1/4" = 1'-0"



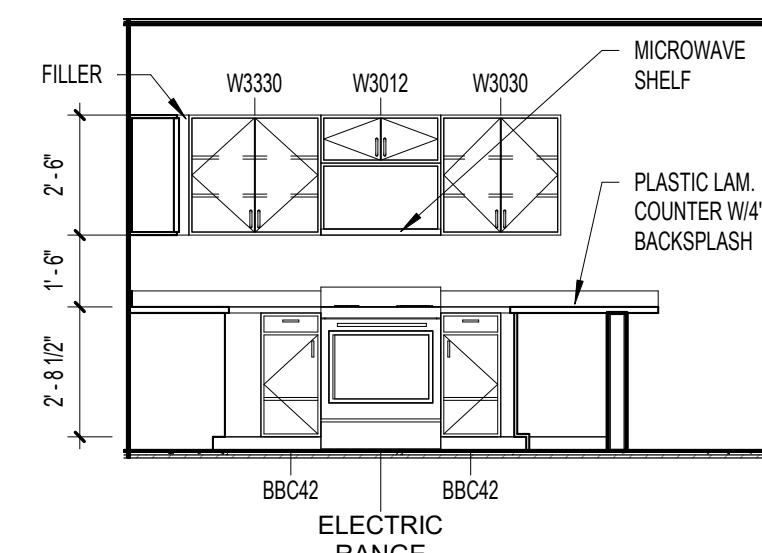
4 ELEVATION
A303 SCALE: 1/4" = 1'-0"



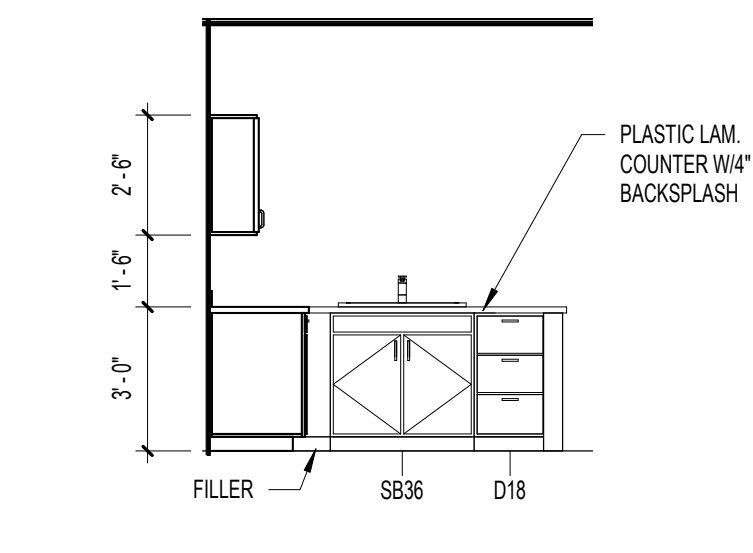
5 ELEVATION
A303 SCALE: 1/4" = 1'-0"



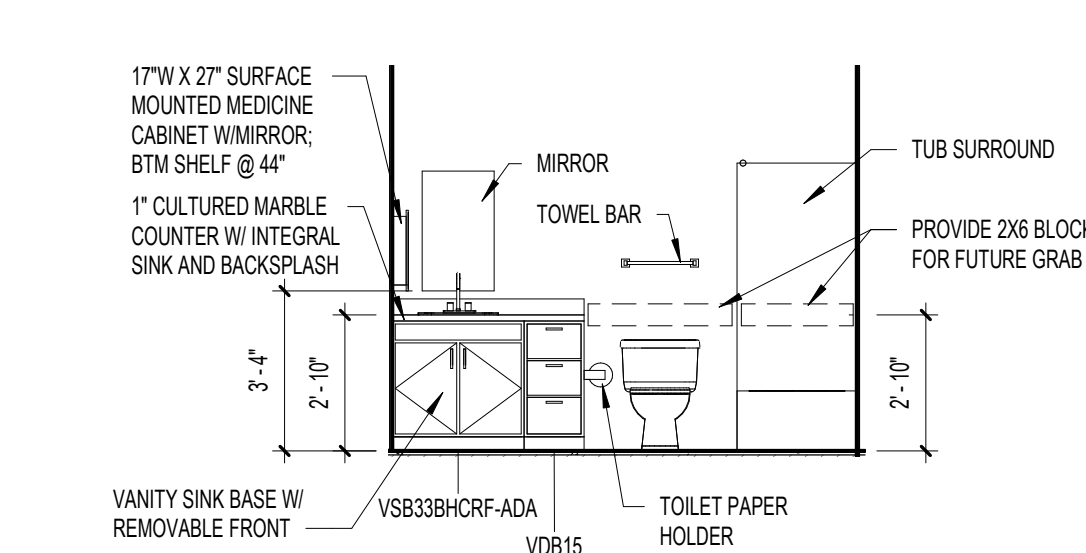
6 ELEVATION
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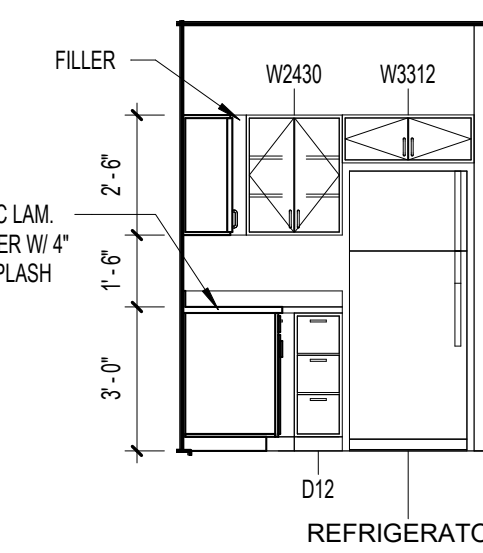
7 ELEVATION
A303 SCALE: 1/4" = 1'-0"



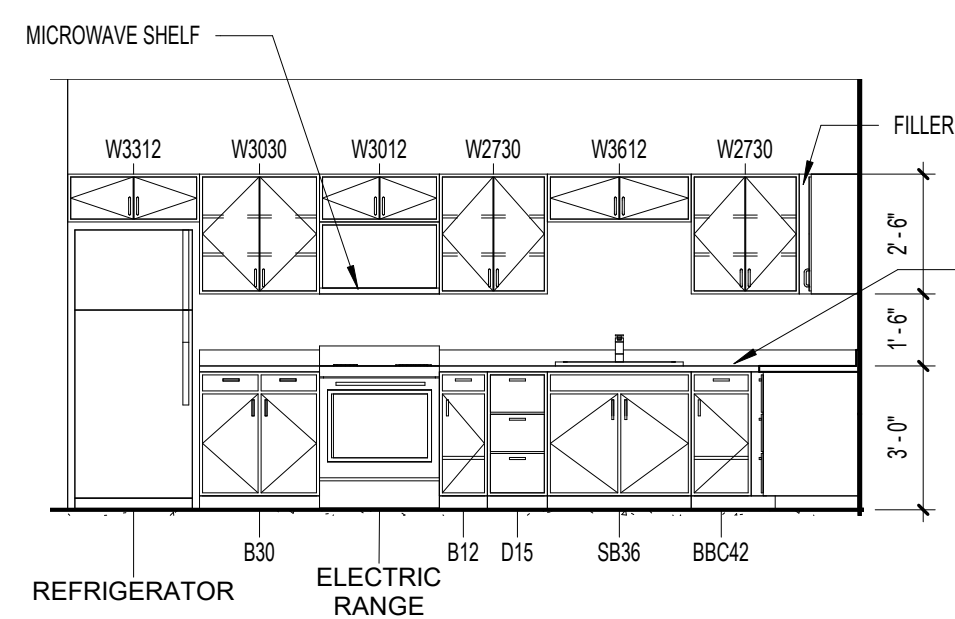
8 ELEVATION
A303 SCALE: 1/4" = 1'-0"



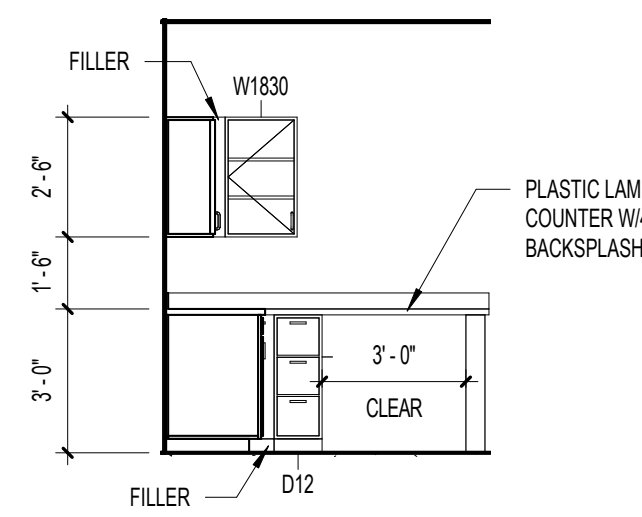
9 ELEVATION
A303 SCALE: 1/4" = 1'-0"



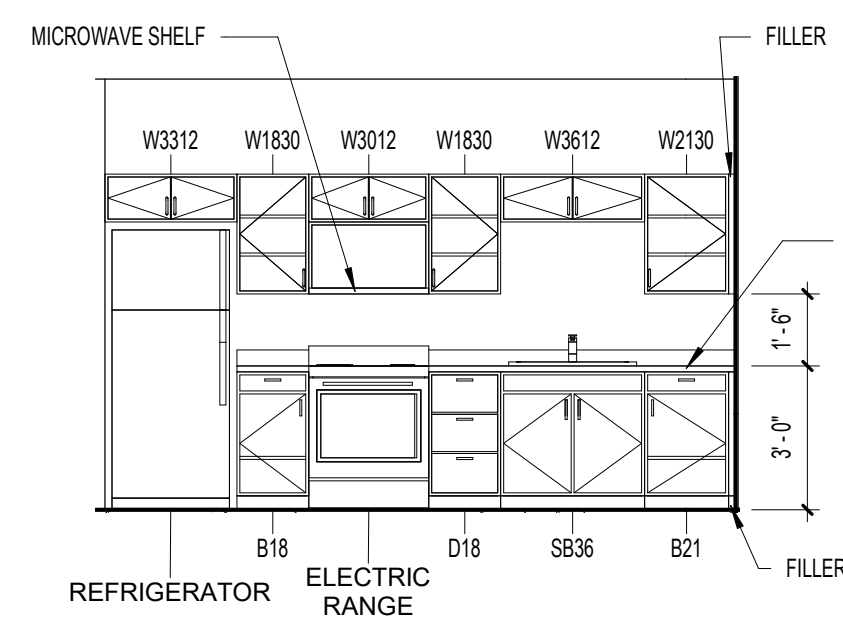
10 ELEVATION
A303 SCALE: 1/4" = 1'-0"



11 ELEVATION
A303 SCALE: 1/4" = 1'-0"



12 ELEVATION
A303 SCALE: 1/4" = 1'-0"



13 ELEVATION
A303 SCALE: 1/4" = 1'-0"



EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

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80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

INTERIOR ELEVATIONS

21-116

A303

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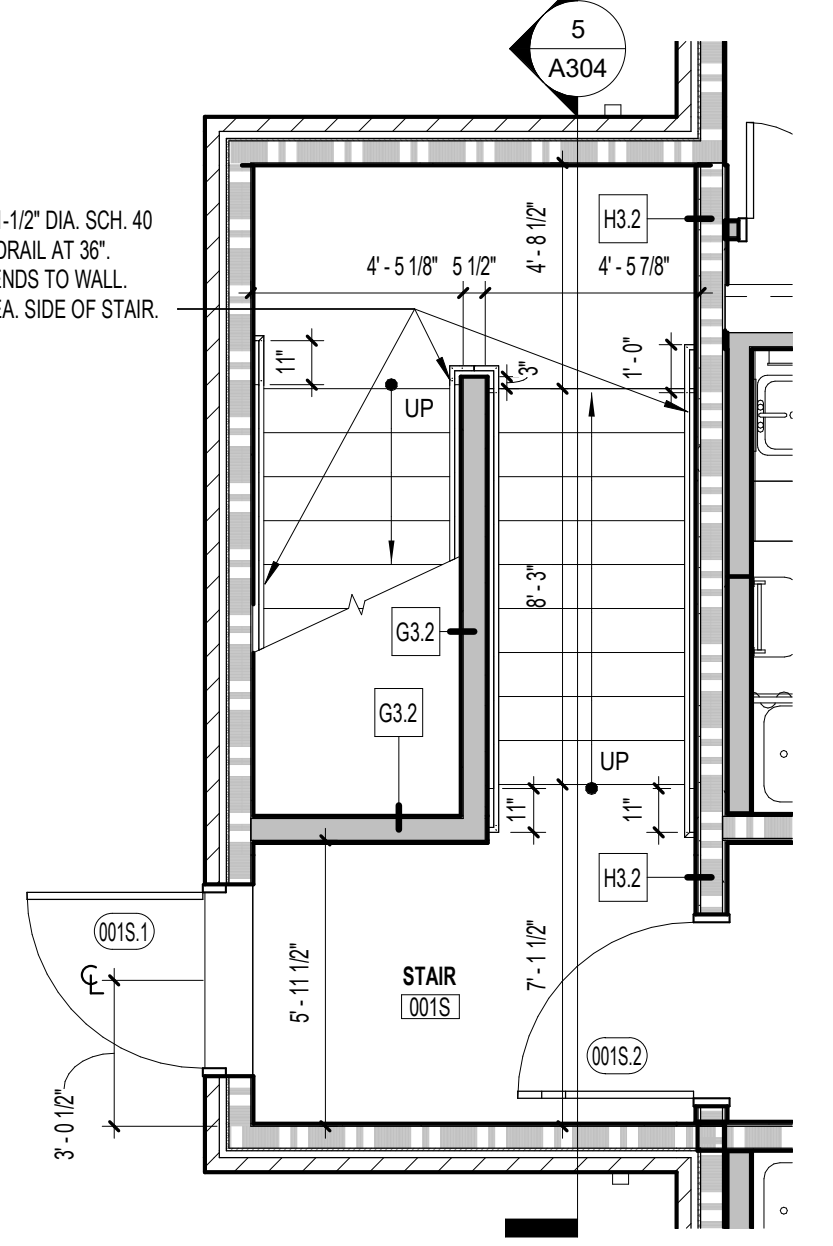
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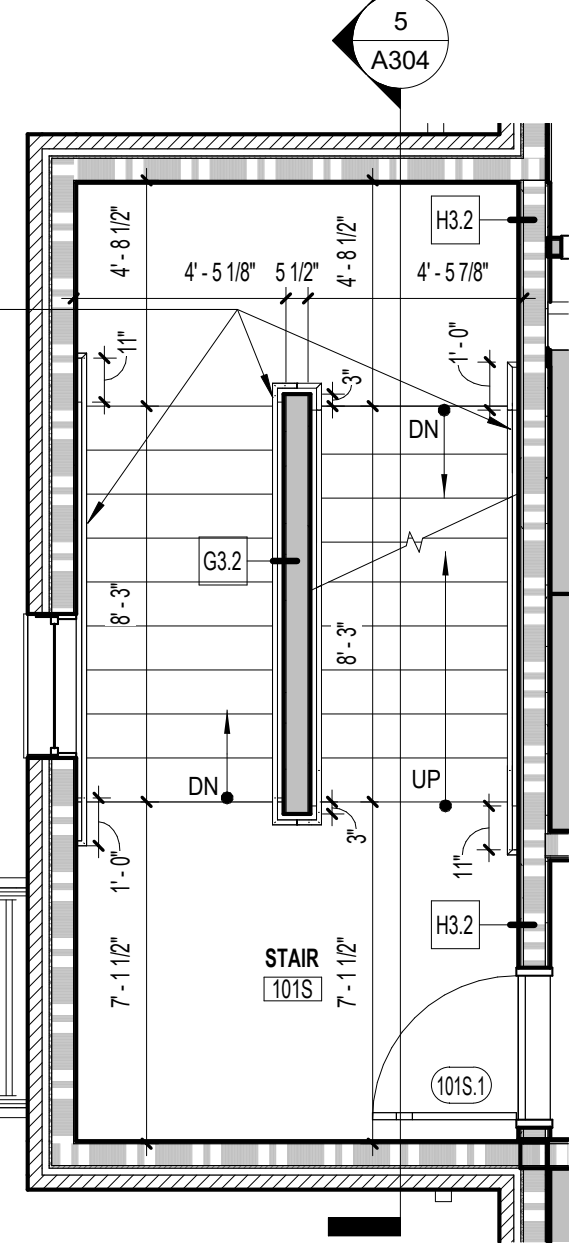
ENLARGED STAIR PLANS, SECTIONS, AND DETAILS

21-116

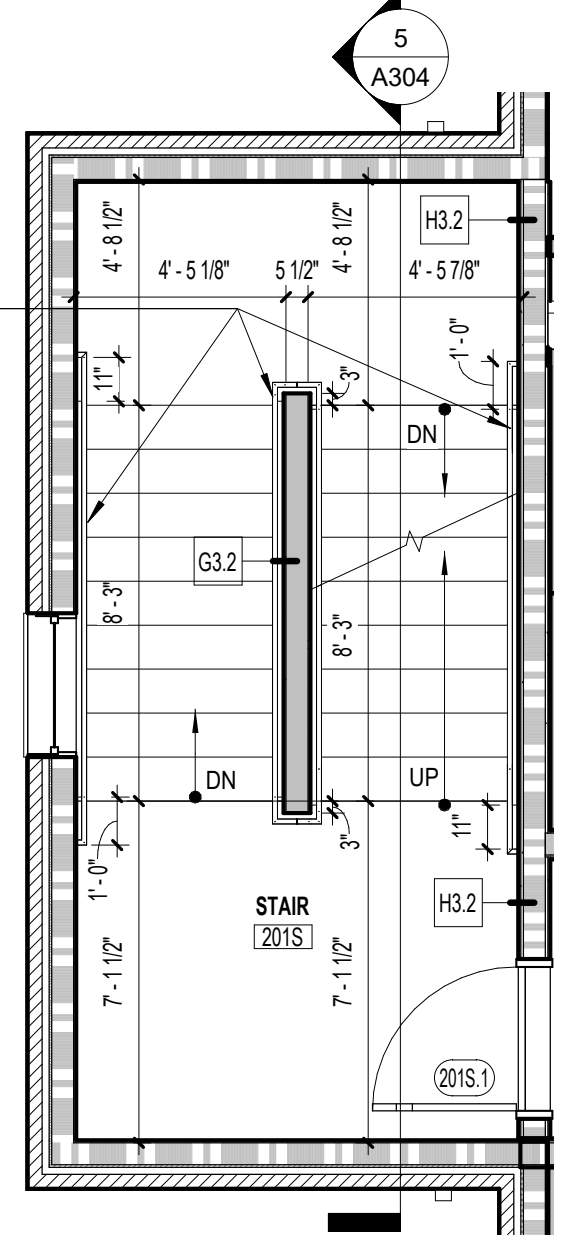
A304



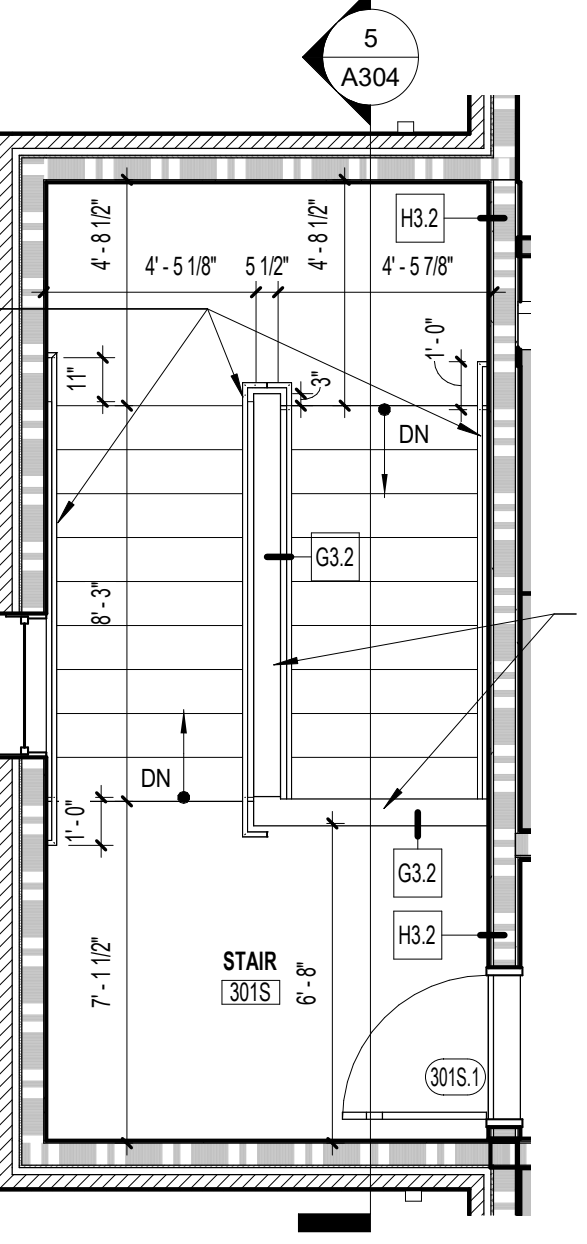
1 BASEMENT STAIR PLAN
A304 SCALE: 1/4" = 1'-0"



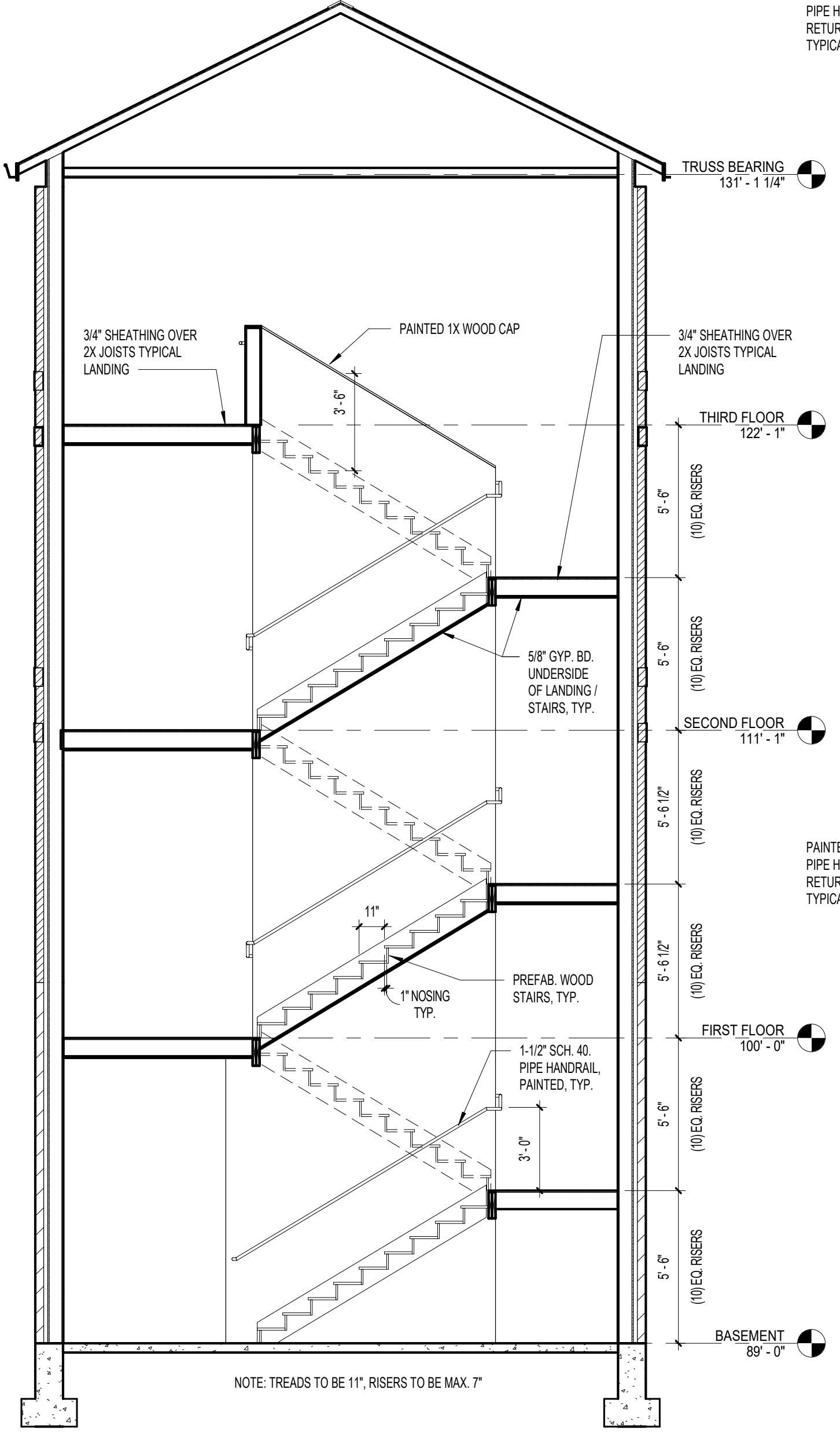
2 FIRST FLOOR STAIR PLAN
A304 SCALE: 1/4" = 1'-0"



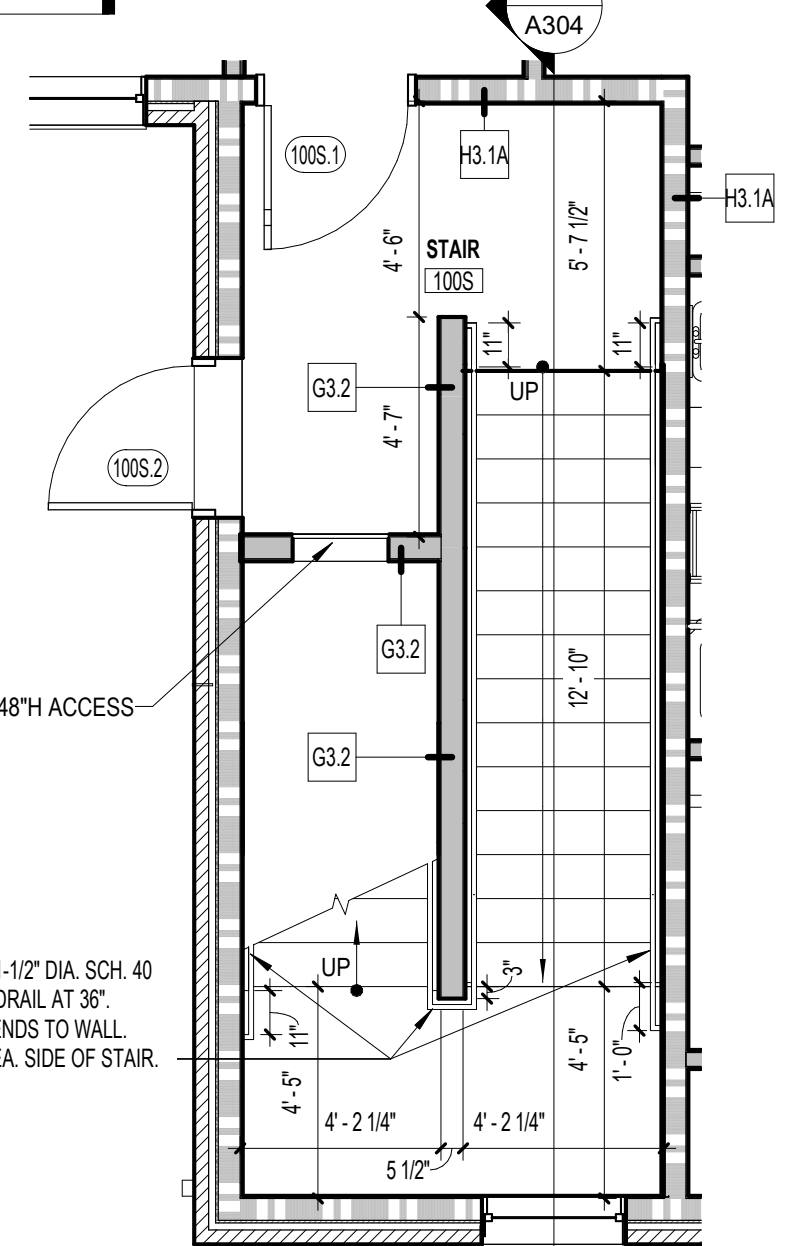
3 SECOND FLOOR STAIR PLAN
A304 SCALE: 1/4" = 1'-0"



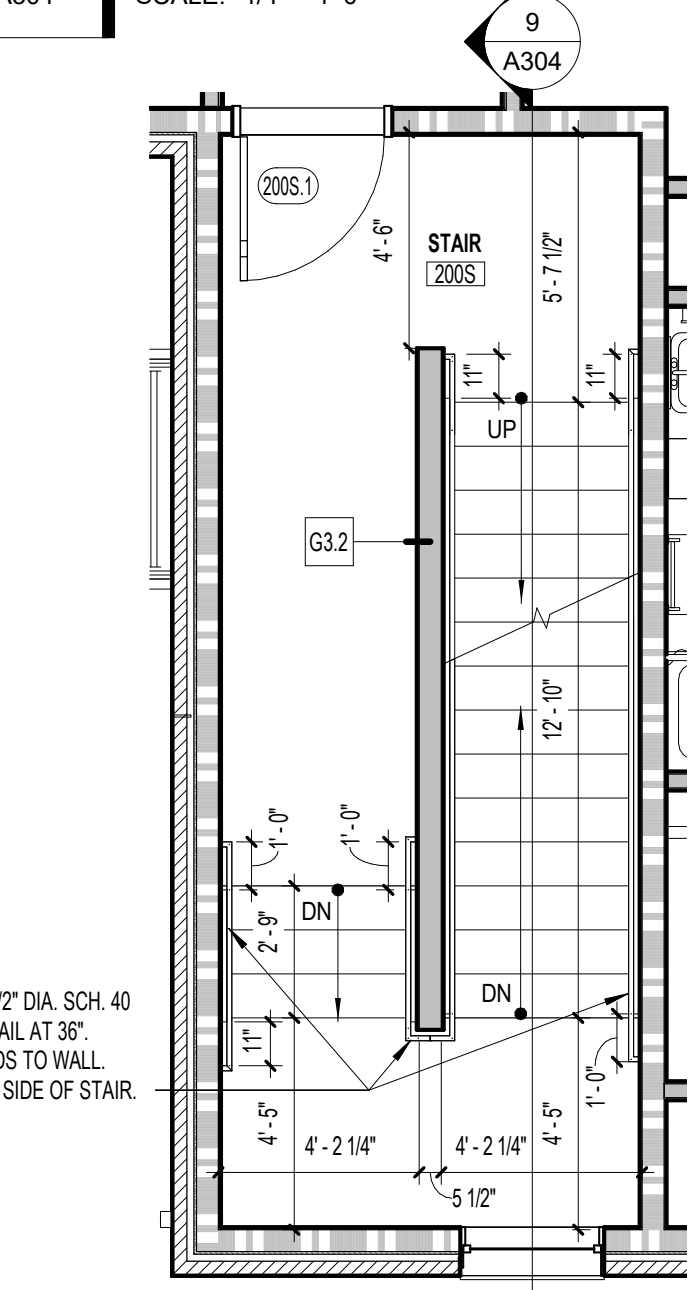
4 THIRD FLOOR STAIR PLAN
A304 SCALE: 1/4" = 1'-0"



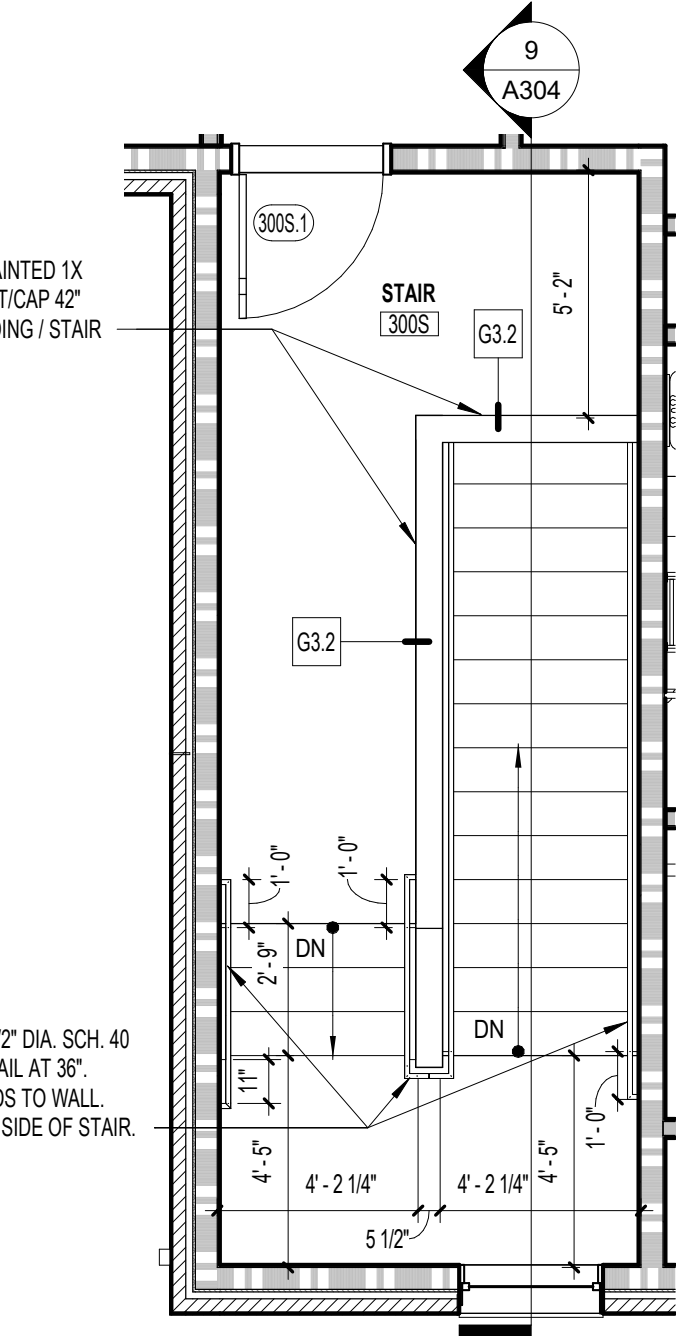
5 ENLARGED STAIR SECTION
A304 SCALE: 1/4" = 1'-0"



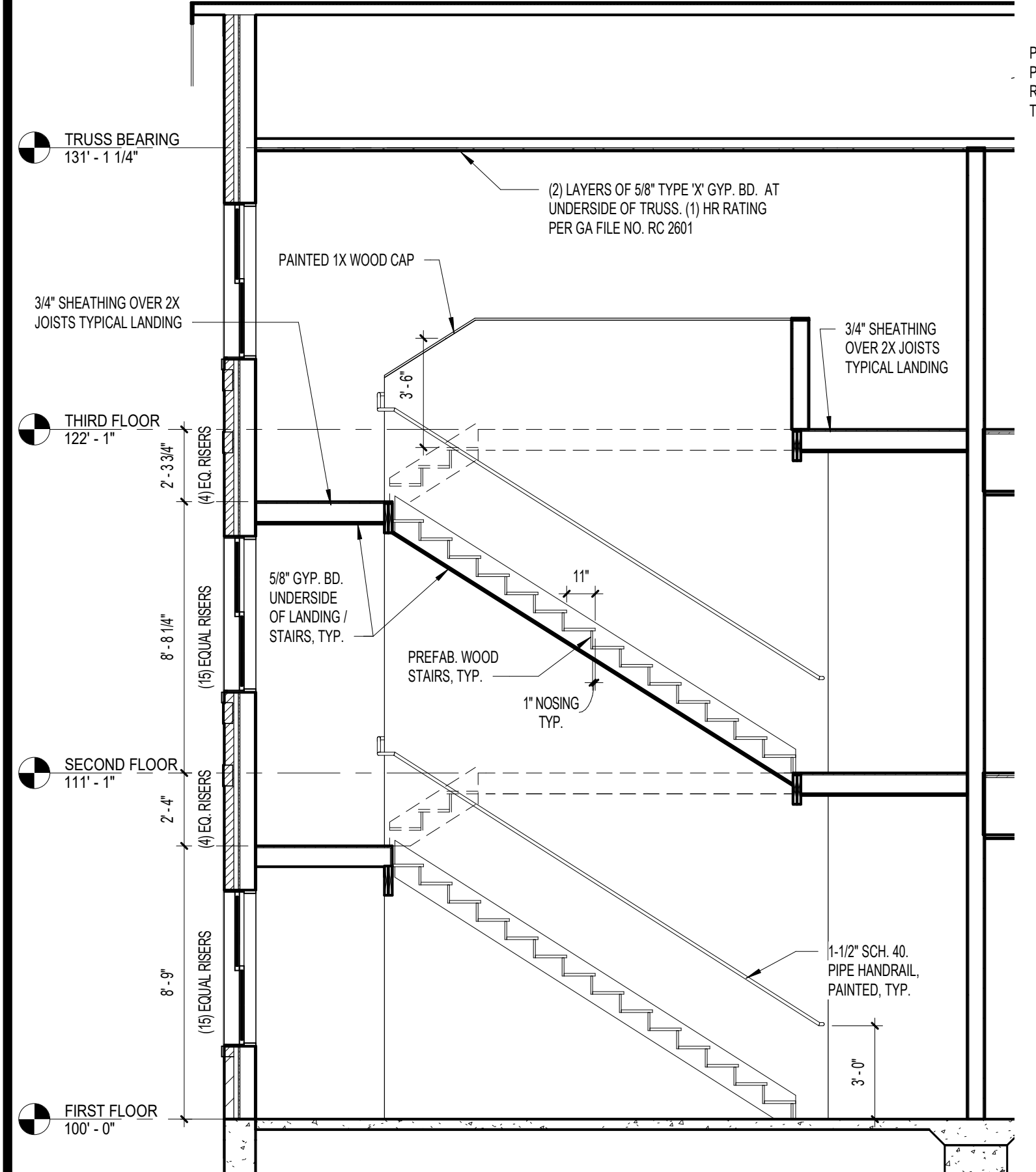
6 FIRST FLOOR STAIR PLAN
A304 SCALE: 1/4" = 1'-0"



7 SECOND FLOOR STAIR PLAN
A304 SCALE: 1/4" = 1'-0"

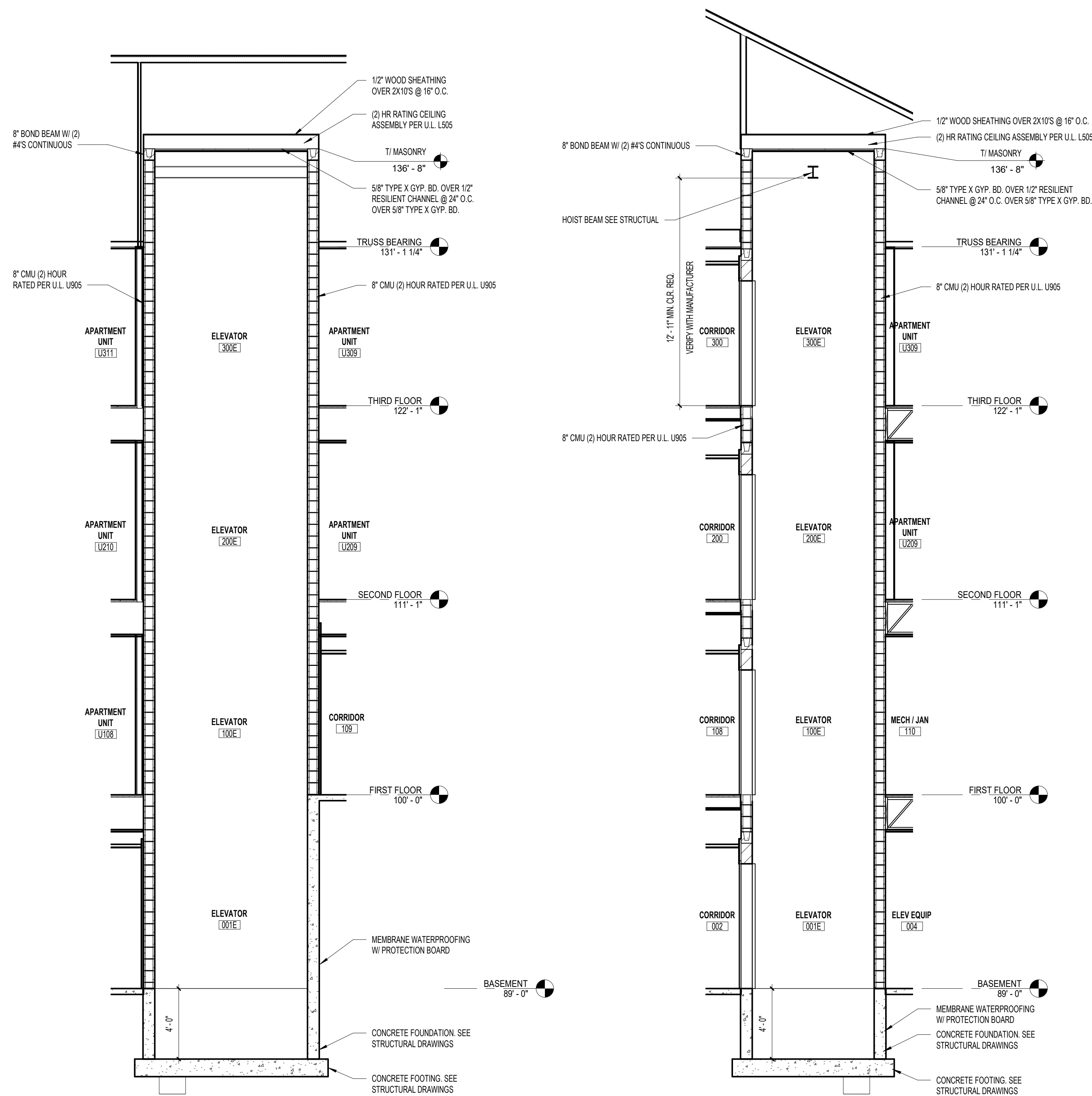


8 THIRD FLOOR STAIR PLAN
A304 SCALE: 1/4" = 1'-0"



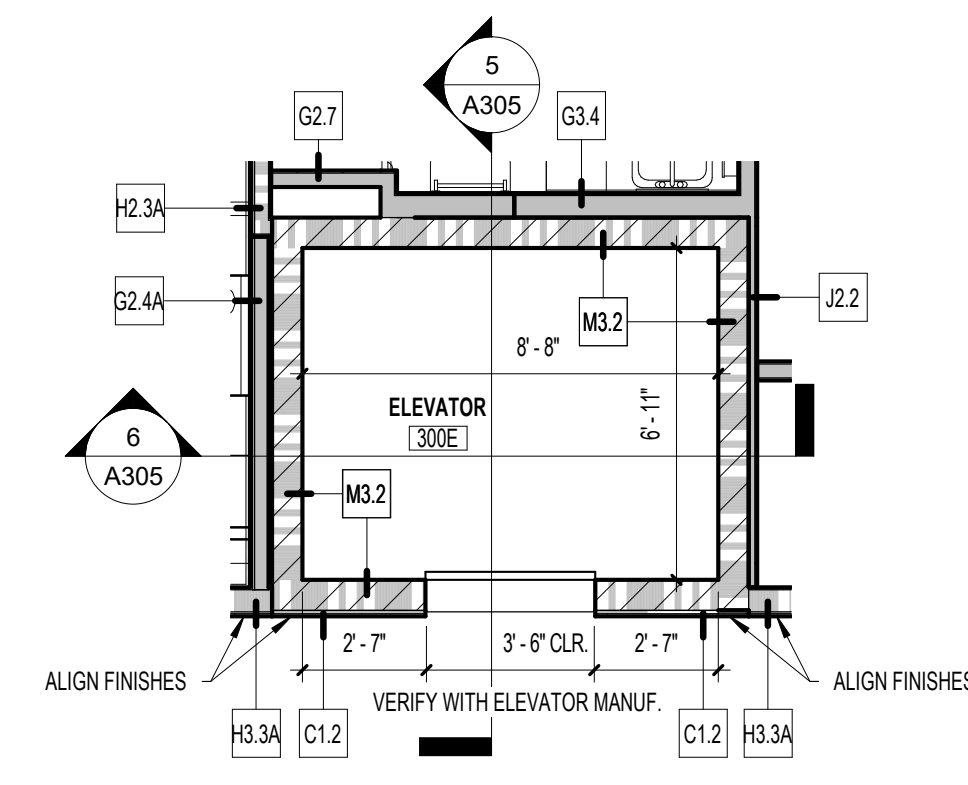
9 ENLARGED STAIR SECTION
A304 SCALE: 1/4" = 1'-0"

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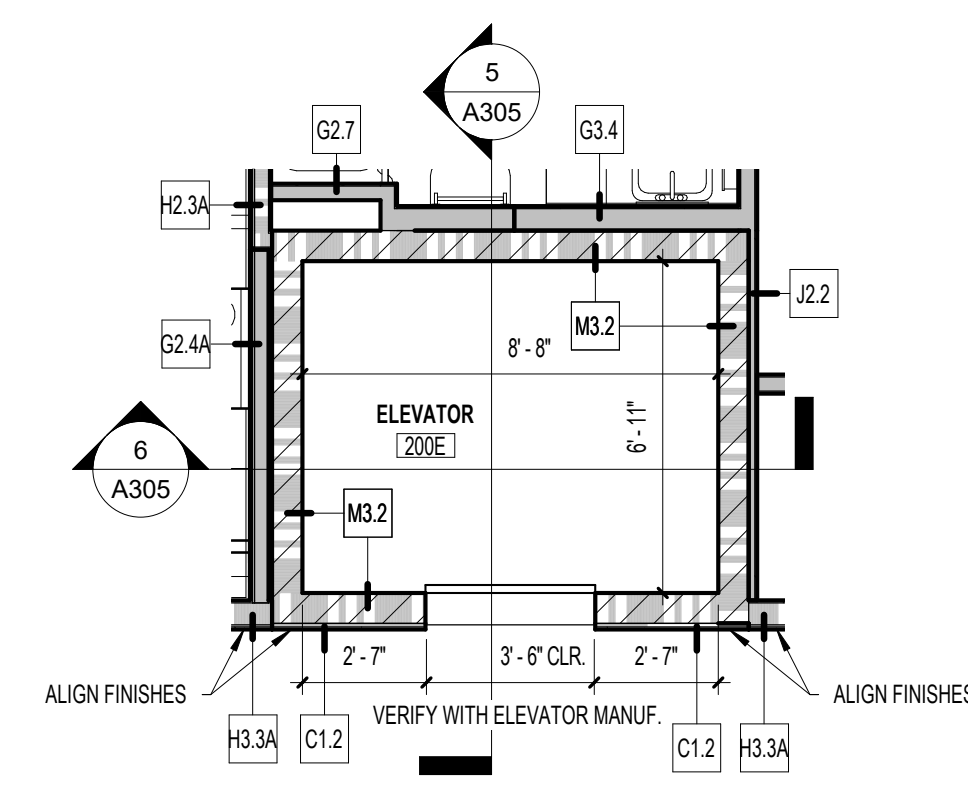


6 ENLARGED ELEVATOR SECTION
A305 SCALE: 1/4" = 1'-0"

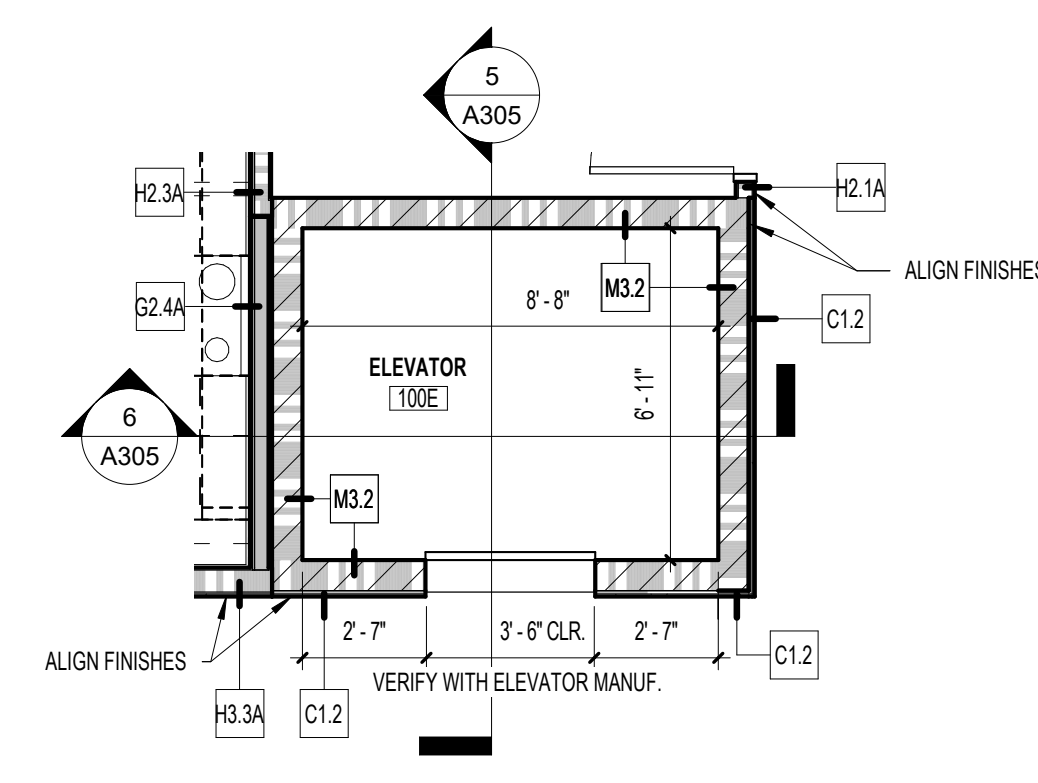
5 ENLARGED ELEVATOR SECTION
A305 SCALE: 1/4" = 1'-0"



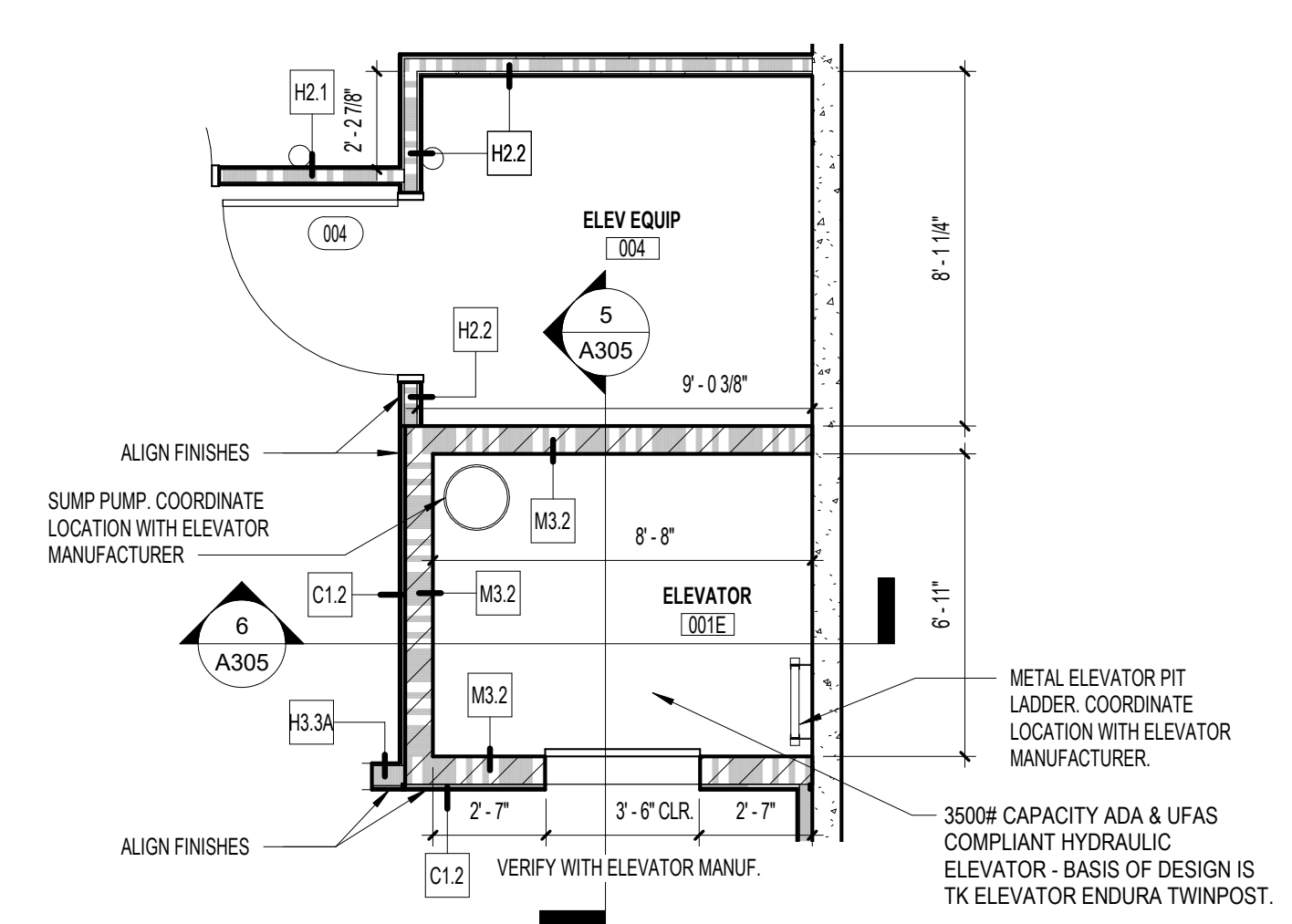
4 THIRD FLOOR ELEVATOR PLAN
A305 SCALE: 1/4" = 1'-0"



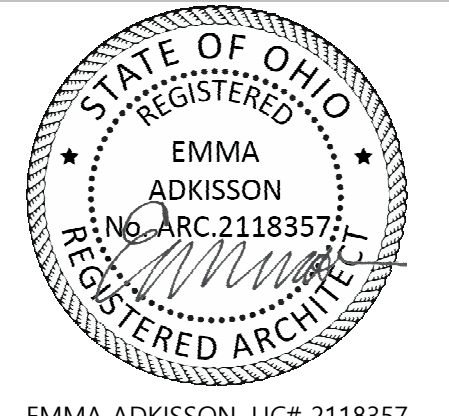
3 SECOND FLOOR ELEVATOR PLAN
A305 SCALE: 1/4" = 1'-0"



2 FIRST FLOOR ELEVATOR PLAN
A305 SCALE: 1/4" = 1'-0"



1 BASEMENT ELEVATOR PLAN
A305 SCALE: 1/4" = 1'-0"



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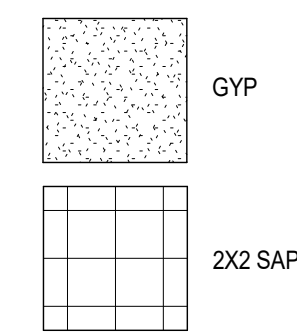
ENLARGED ELEVATOR PLANS, SECTIONS, AND DETAILS

21-116

A305

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CEILING FINISH LEGEND



GENERAL NOTES - CEILING PLANS

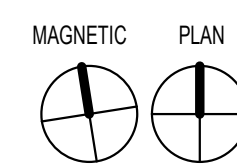
- A. PROVIDE (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD ON BOTTOM OF ROOF TRUSS AND 2X FLOOR FRAMING THROUGHOUT BUILDING FOR (1) HOUR RATING. PAINT WHERE EXPOSED
- B. PROVIDE (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTTOM OF FLOOR TRUSS FRAMING THROUGHOUT BUILDING FOR (1) HOUR RATING. PAINT WHERE EXPOSED

CEILING PLAN - ABBREVIATIONS

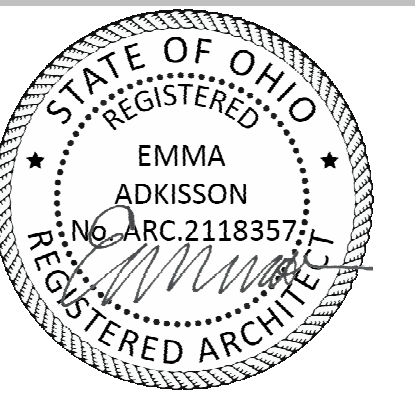
- GYP GYPSUM BOARD
- SAP SUSPENDED ACOUSTICAL PANEL

SHEET KEYNOTES

- 9D GYP, BD. ON UNDERSIDE OF STAIRS AND LANDINGS
- 9F GYPSUM BOARD SOFFIT
- 9J PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD THIS PORTION OF CEILING BELOW BATHROOM ABOVE.



1 REFLECTED CEILING PLAN - BASEMENT
A400 SCALE: 1/8" = 1'-0"



**GEIGER HOUSE FOR VETERANS /
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BASEMENT REFLECTED
CEILING PLAN

21-116

A400

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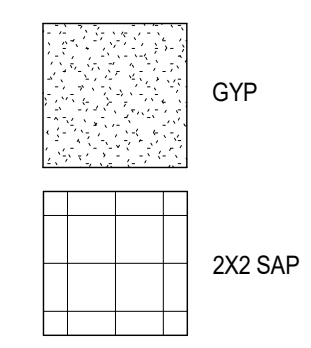


EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

GEIGER HOUSE FOR VETERANS / KLEKAMP FAMILY RESIDENCES PSH

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CEILING FINISH LEGEND



GENERAL NOTES - CEILING PLANS

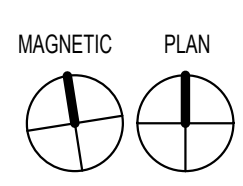
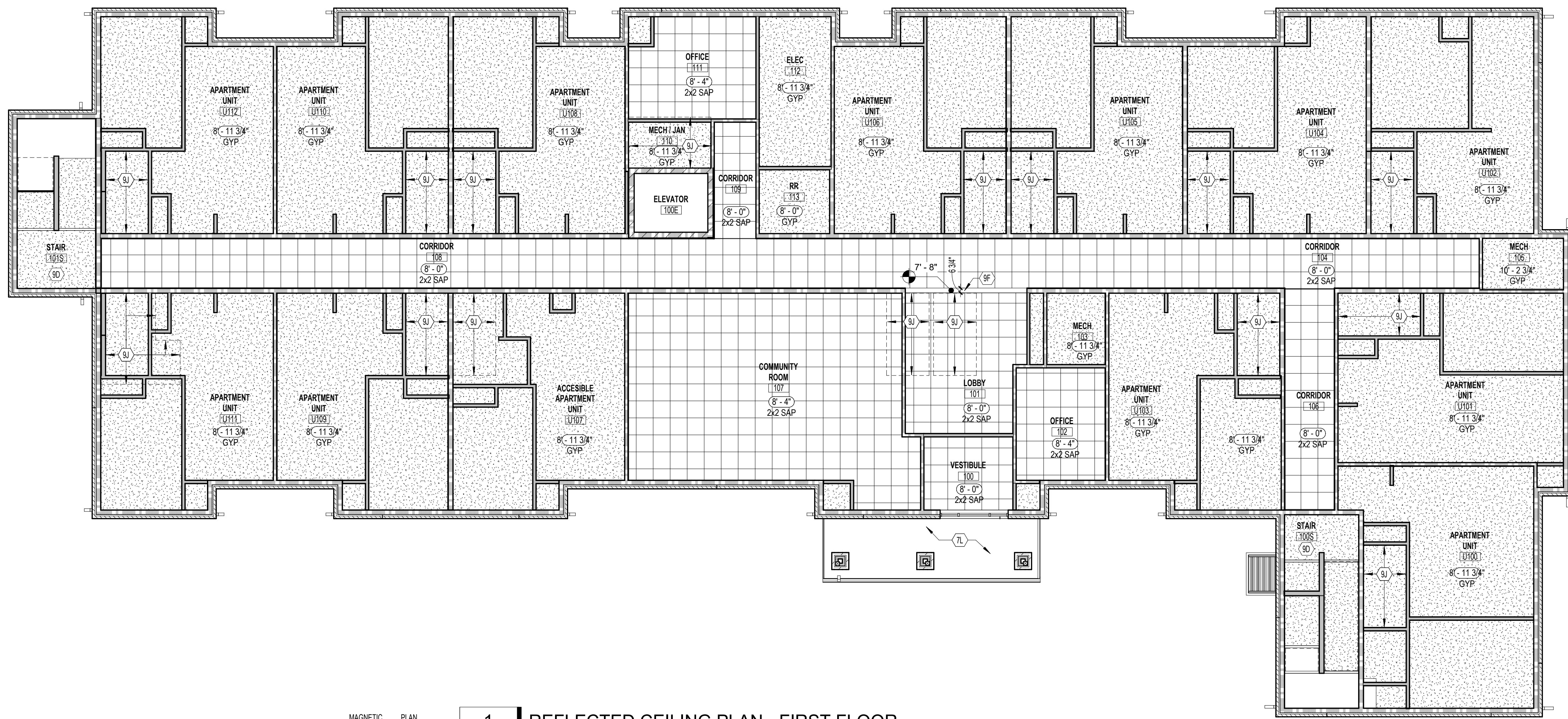
- A. PROVIDE (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD ON BOTTOM OF ROOF TRUSS AND 2X FLOOR FRAMING THROUGHOUT BUILDING FOR (1) HOUR RATING. PAINT WHERE EXPOSED
- B. PROVIDE (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTTOM OF FLOOR TRUSS FRAMING THROUGHOUT BUILDING FOR (1) HOUR RATING. PAINT WHERE EXPOSED

CEILING PLAN - ABBREVIATIONS

- GYP GYPSUM BOARD
- SAP SUSPENDED ACOUSTICAL PANEL

SHEET KEYNOTES

- 7L VINYL SOFFIT.
- 9D GYP. BD. ON UNDERSIDE OF STAIRS AND LANDINGS
- 9F GYPSUM BOARD SOFFIT
- 9J PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD THIS PORTION OF CEILING BELOW BATHROOM ABOVE.



1 REFLECTED CEILING PLAN - FIRST FLOOR
A401 SCALE: 1/8" = 1'-0"

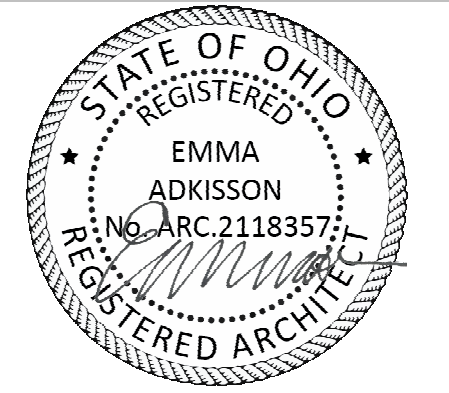
NO.	DESCRIPTION	DATE
80%	OHFA REVIEW	01/04/23
	PERMIT SET	04/13/23

FIRST FLOOR REFLECTED
CEILING PLAN

21-116

A401

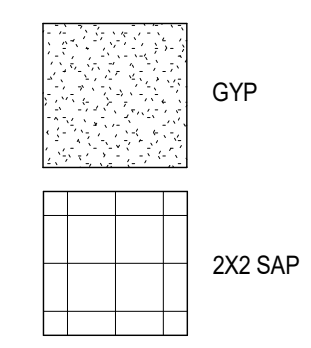
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CEILING FINISH LEGEND



GENERAL NOTES - CEILING PLANS

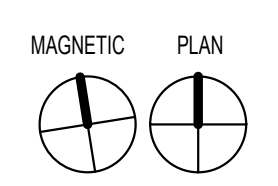
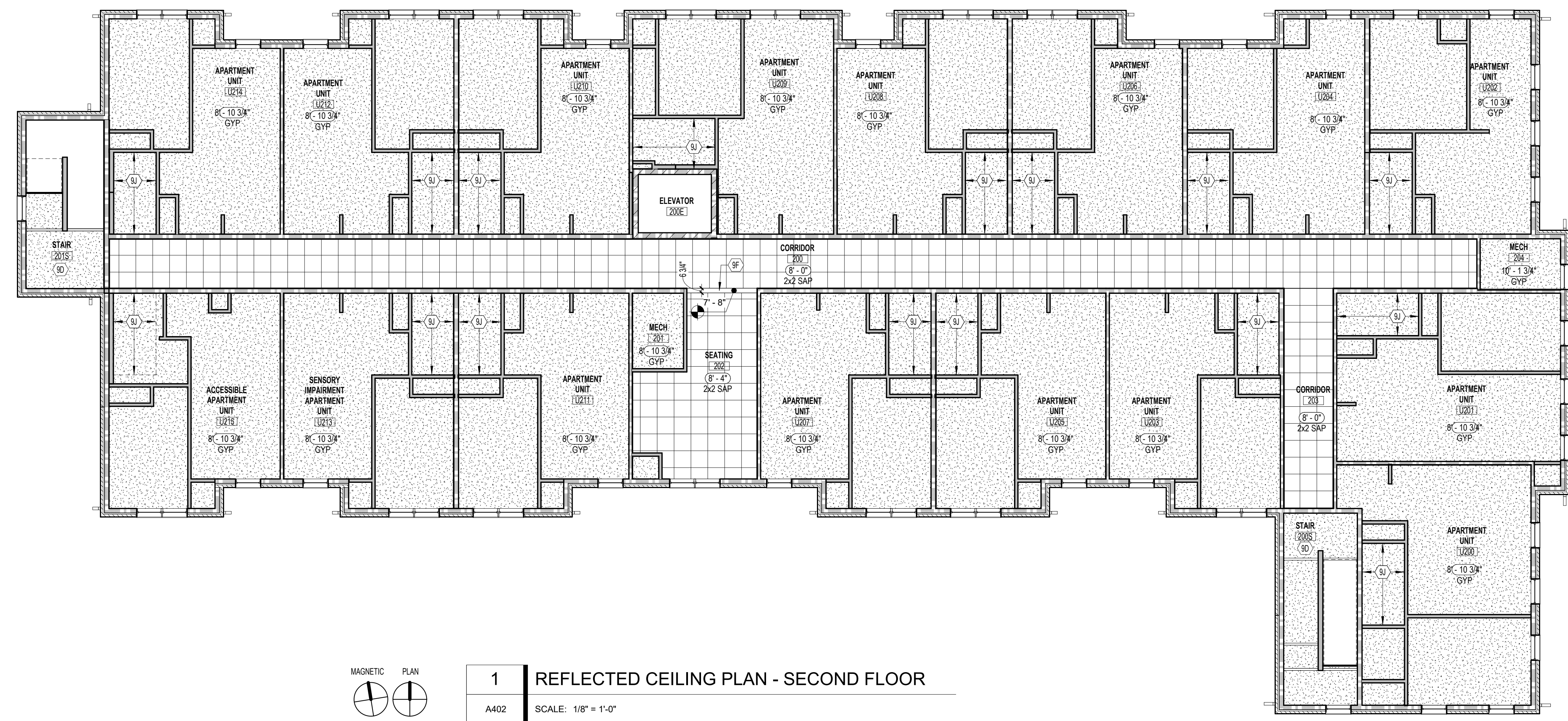
- A. PROVIDE (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD ON BOTTOM OF ROOF TRUSS AND 2X FLOOR FRAMING THROUGHOUT BUILDING FOR (1) HOUR RATING. PAINT WHERE EXPOSED
- B. PROVIDE (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTTOM OF FLOOR TRUSS FRAMING THROUGHOUT BUILDING FOR (1) HOUR RATING. PAINT WHERE EXPOSED

CEILING PLAN - ABBREVIATIONS

- GYP GYPSUM BOARD
- SAP SUSPENDED ACOUSTICAL PANEL

SHEET KEYNOTES

- 9D GYP. BD. ON UNDERSIDE OF STAIRS AND LANDINGS
- 9F GYPSUM BOARD SOFFIT
- 9J PROVIDE 5/8" MOISTURE-RESISTANT PAPERLESS GYPSUM BOARD THIS PORTION OF CEILING BELOW BATHROOM ABOVE.



1 REFLECTED CEILING PLAN - SECOND FLOOR
A402 SCALE: 1/8" = 1'-0"

NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23
		04/13/23

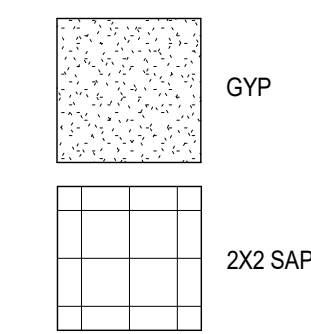
SECOND FLOOR
REFLECTED CEILING PLAN

21-116

A402

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CEILING FINISH LEGEND



GENERAL NOTES - CEILING PLANS

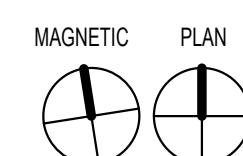
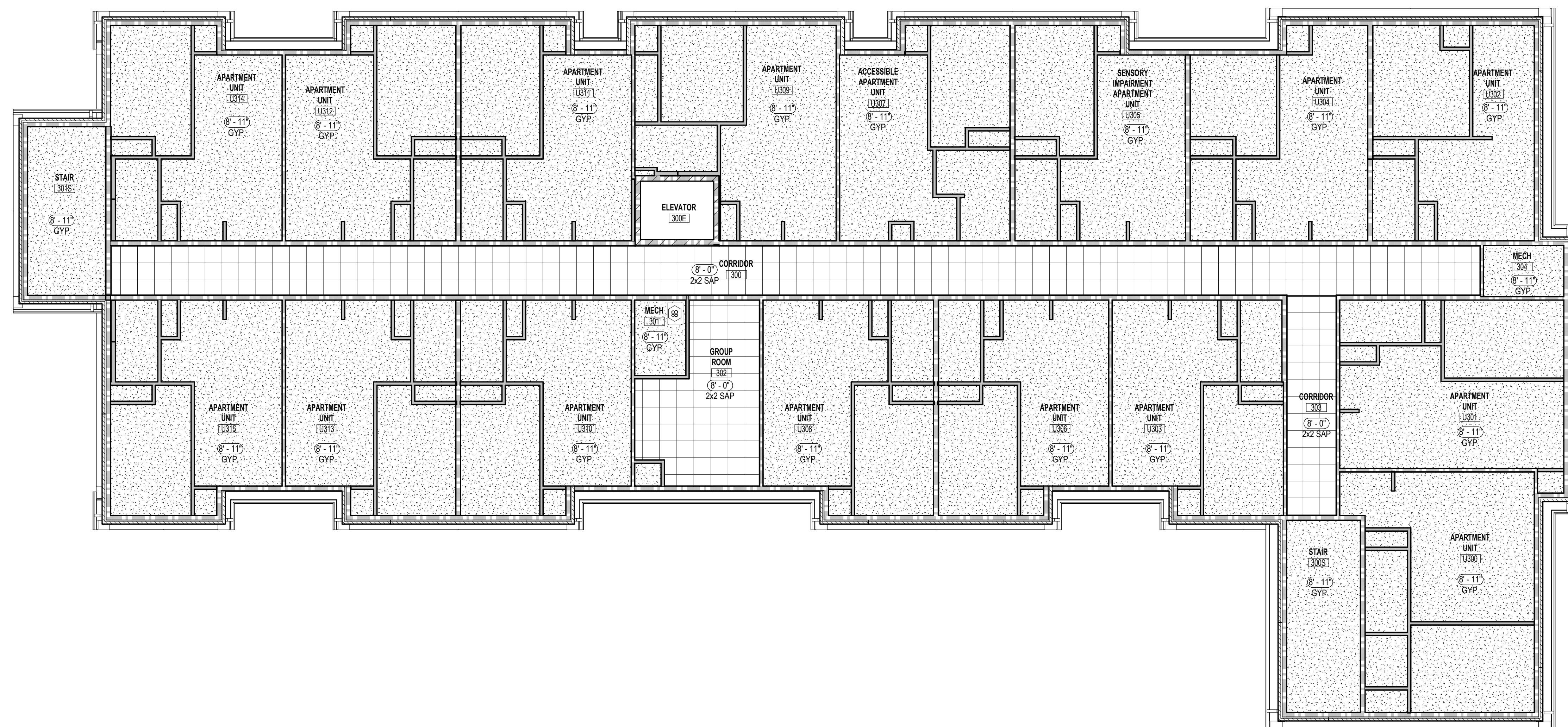
- A. PROVIDE (2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD ON BOTTOM OF ROOF TRUSS AND 2X FLOOR FRAMING THROUGHOUT BUILDING FOR (1) HOUR RATING. PAINT WHERE EXPOSED
- B. PROVIDE (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON BOTTOM OF FLOOR TRUSS FRAMING THROUGHOUT BUILDING FOR (1) HOUR RATING. PAINT WHERE EXPOSED

CEILING PLAN - ABBREVIATIONS

- GYP GYPSUM BOARD
- SAP SUSPENDED ACOUSTICAL PANEL

SHEET KEYNOTES

- 8B 22 1/2" X 30" ATTIC ACCESS PANEL LOCATION. PROVIDE (1) HOUR RATED, SELF CLOSING AND LOCKABLE ACCESS PANEL AT BOTTOM CHORD OF TRUSS.



1 REFLECTED CEILING PLAN - THIRD FLOOR
A403 SCALE: 1/8" = 1'-0"



**GEIGER HOUSE FOR VETERANS /
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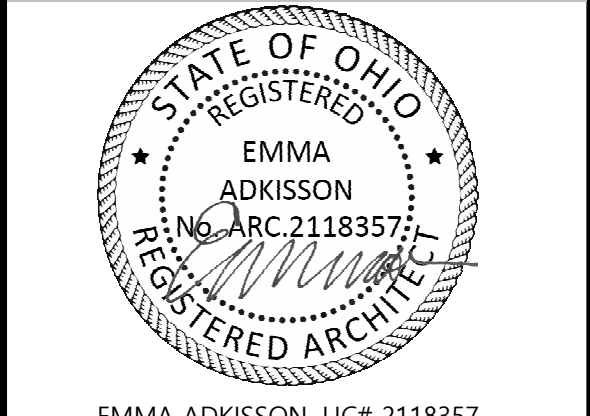
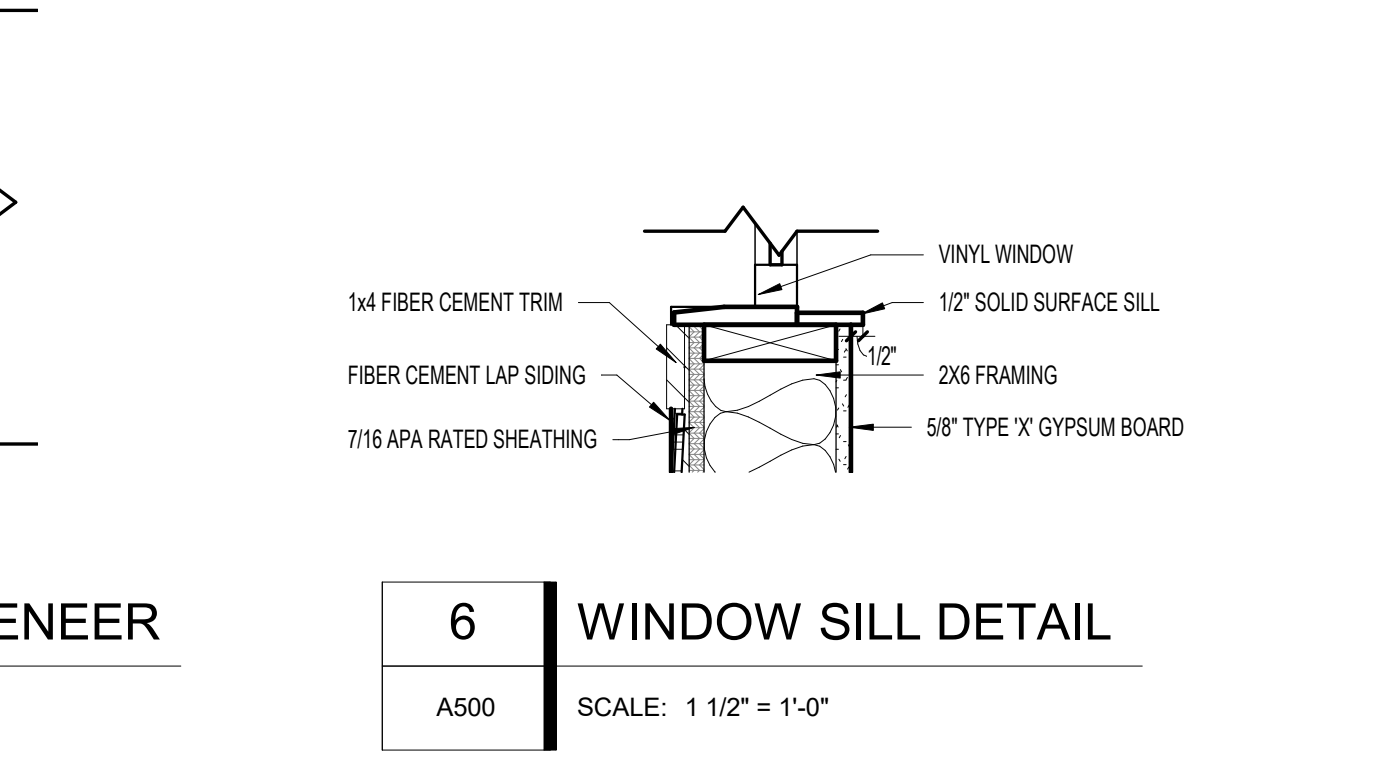
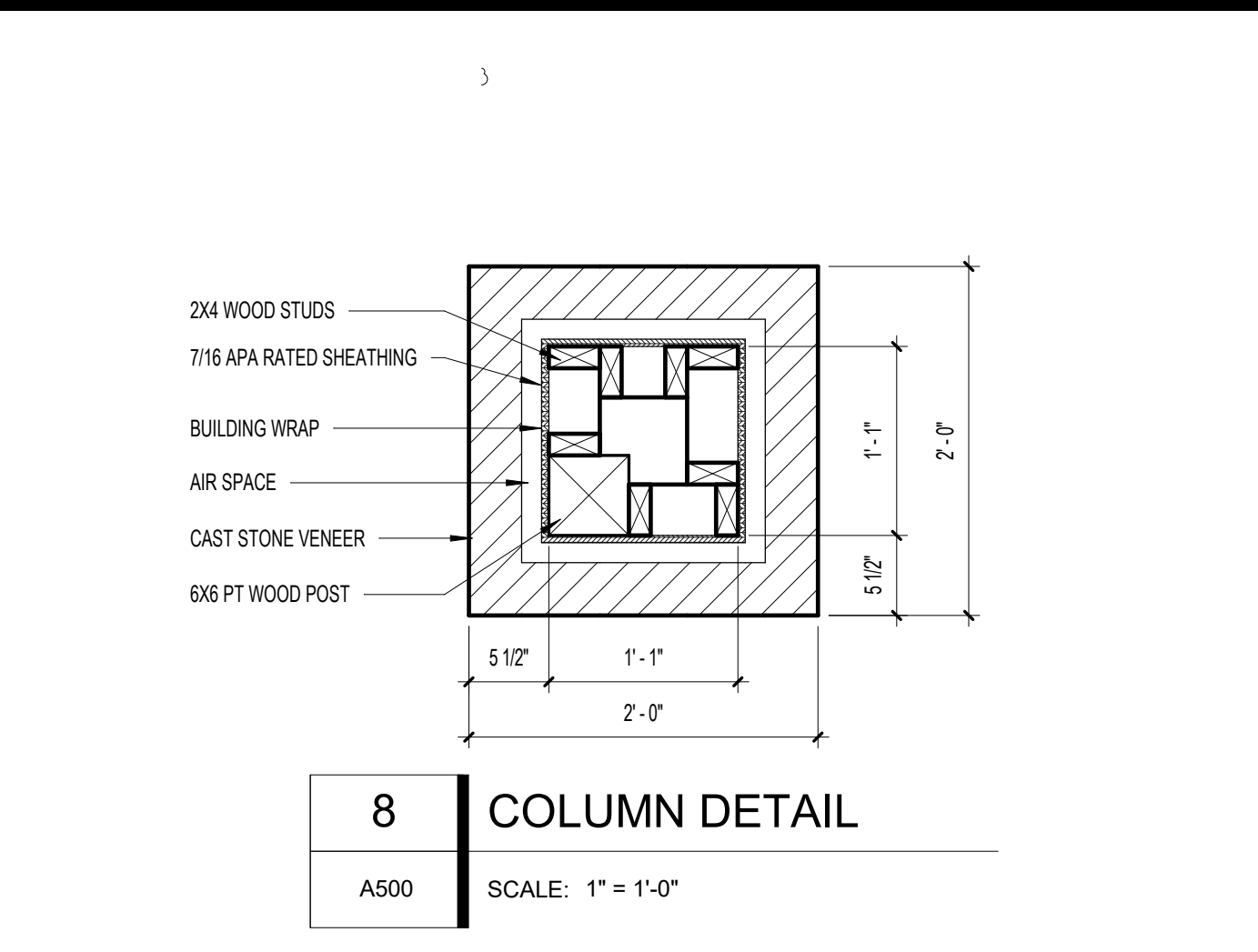
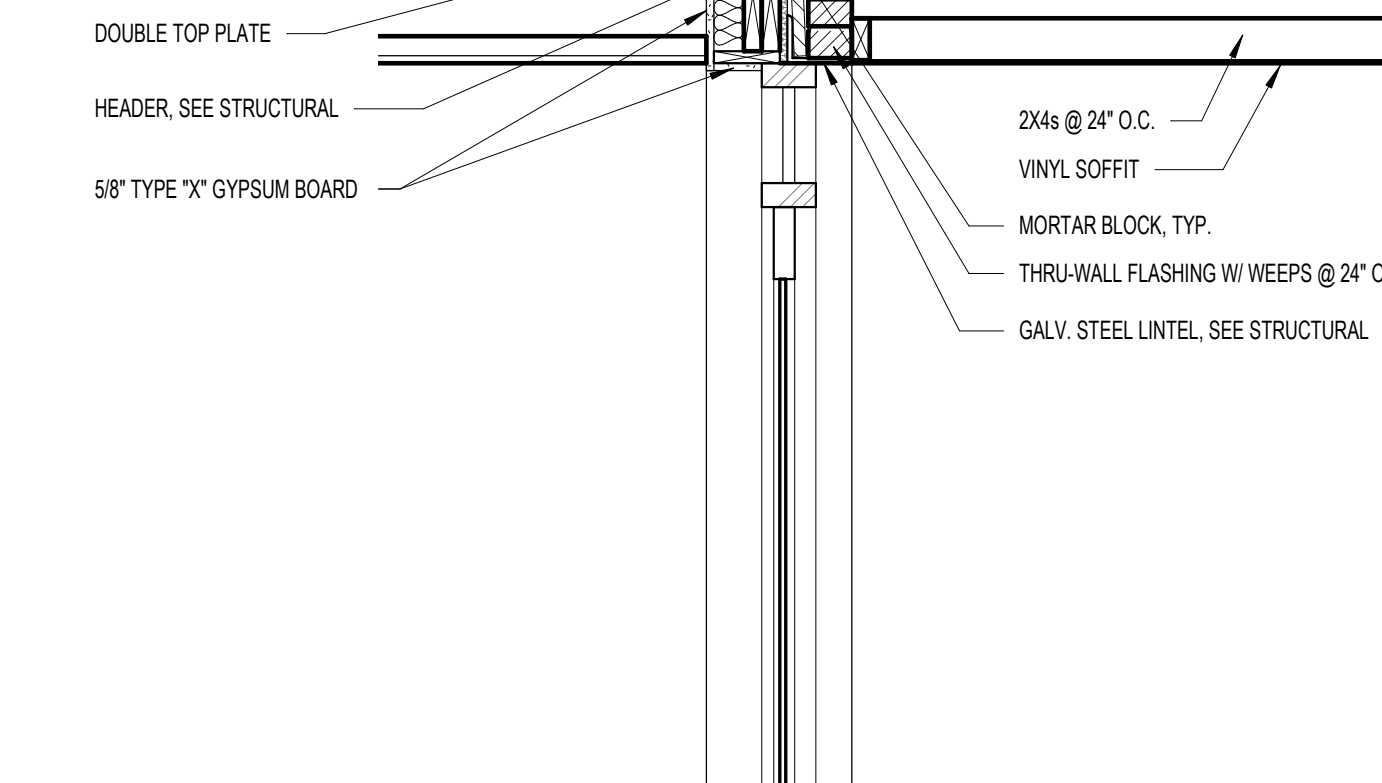
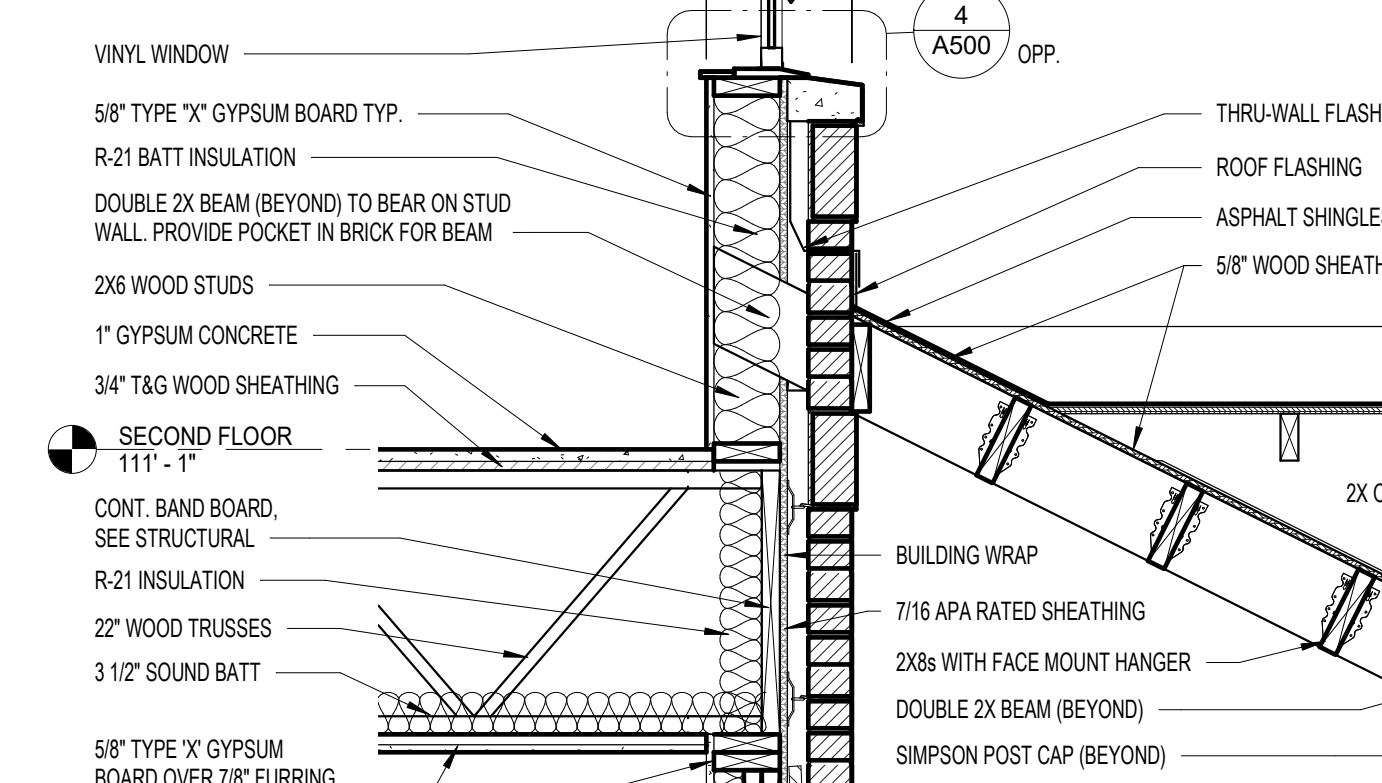
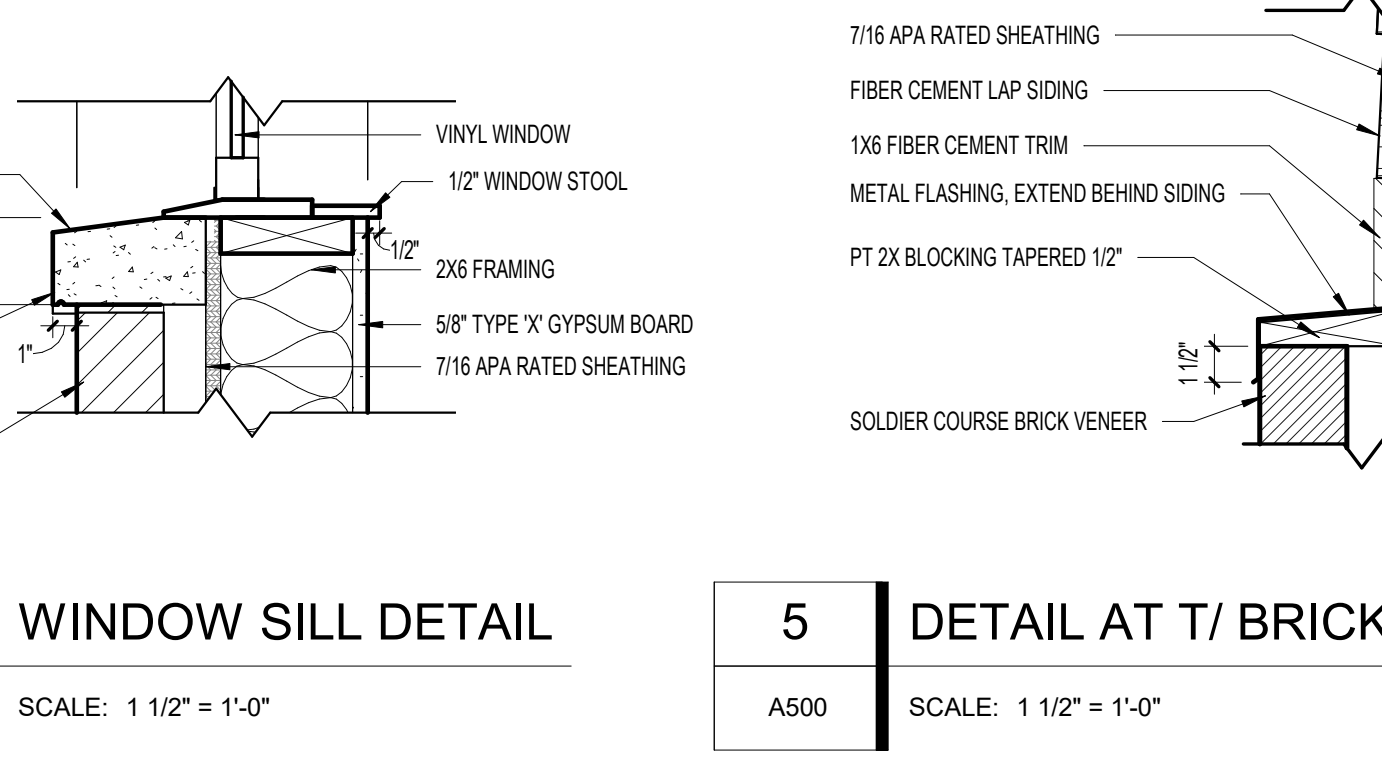
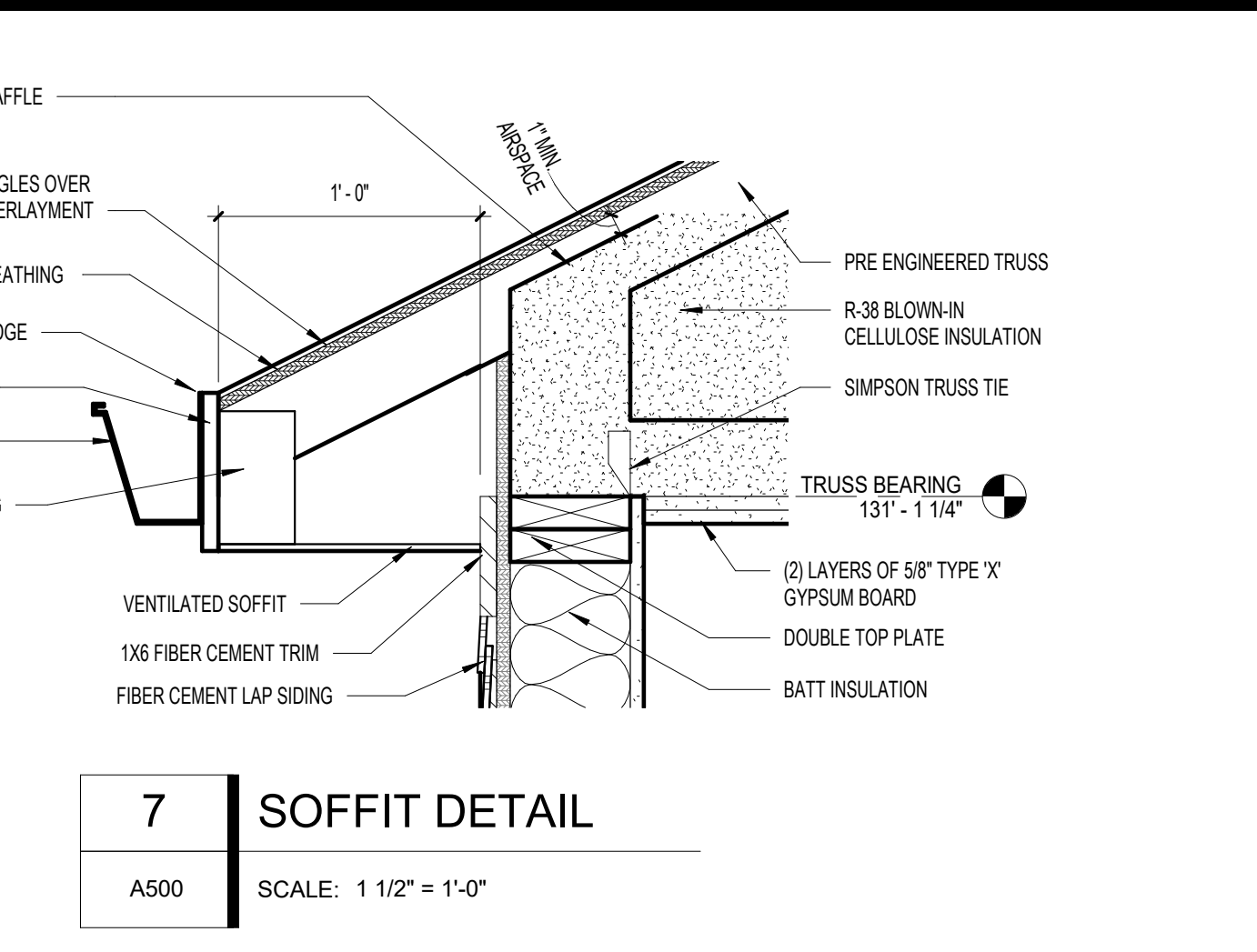
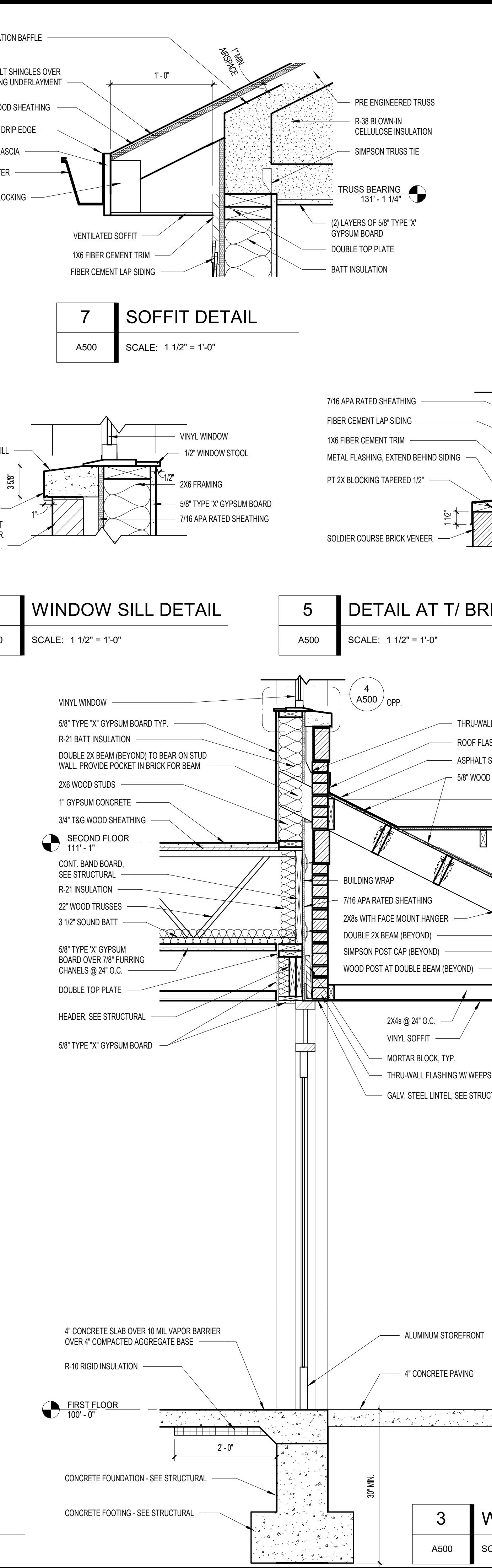
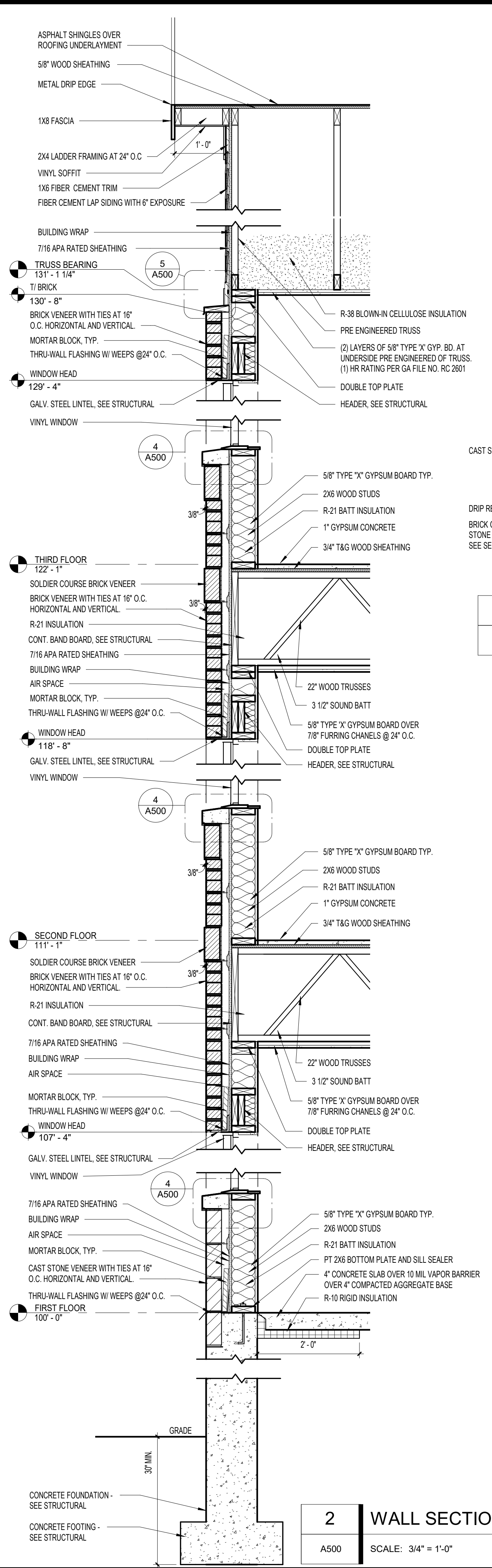
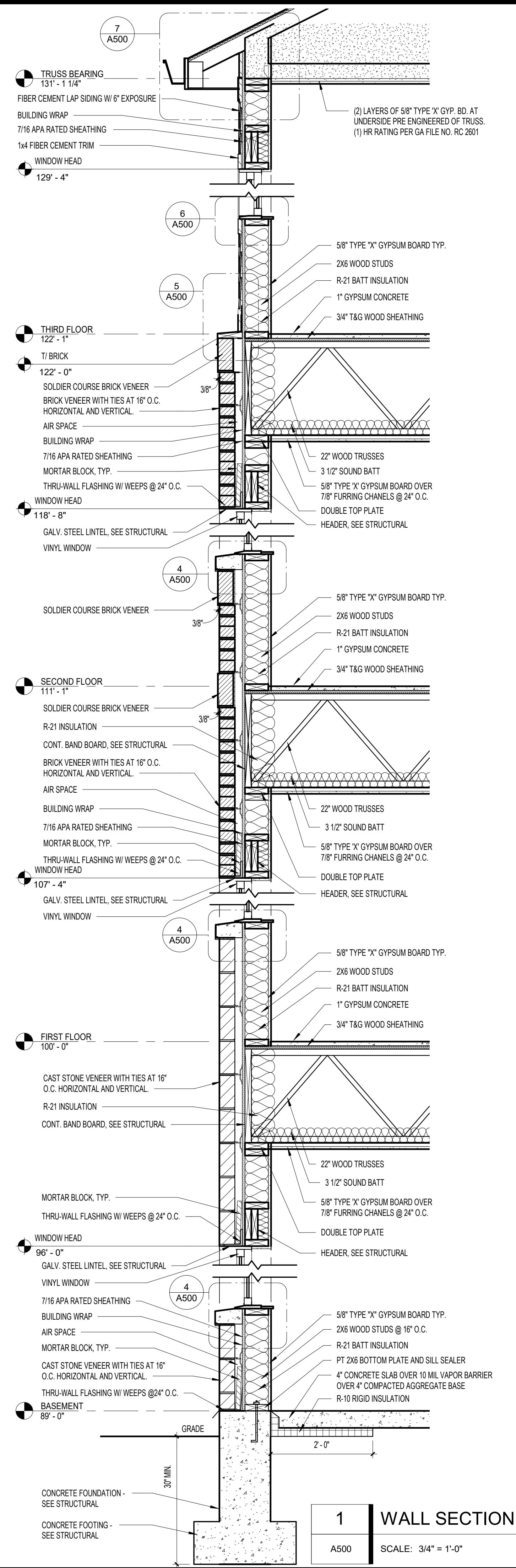
NO.	DESCRIPTION	DATE
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THIRD FLOOR REFLECTED
CEILING PLAN

21-116

A403

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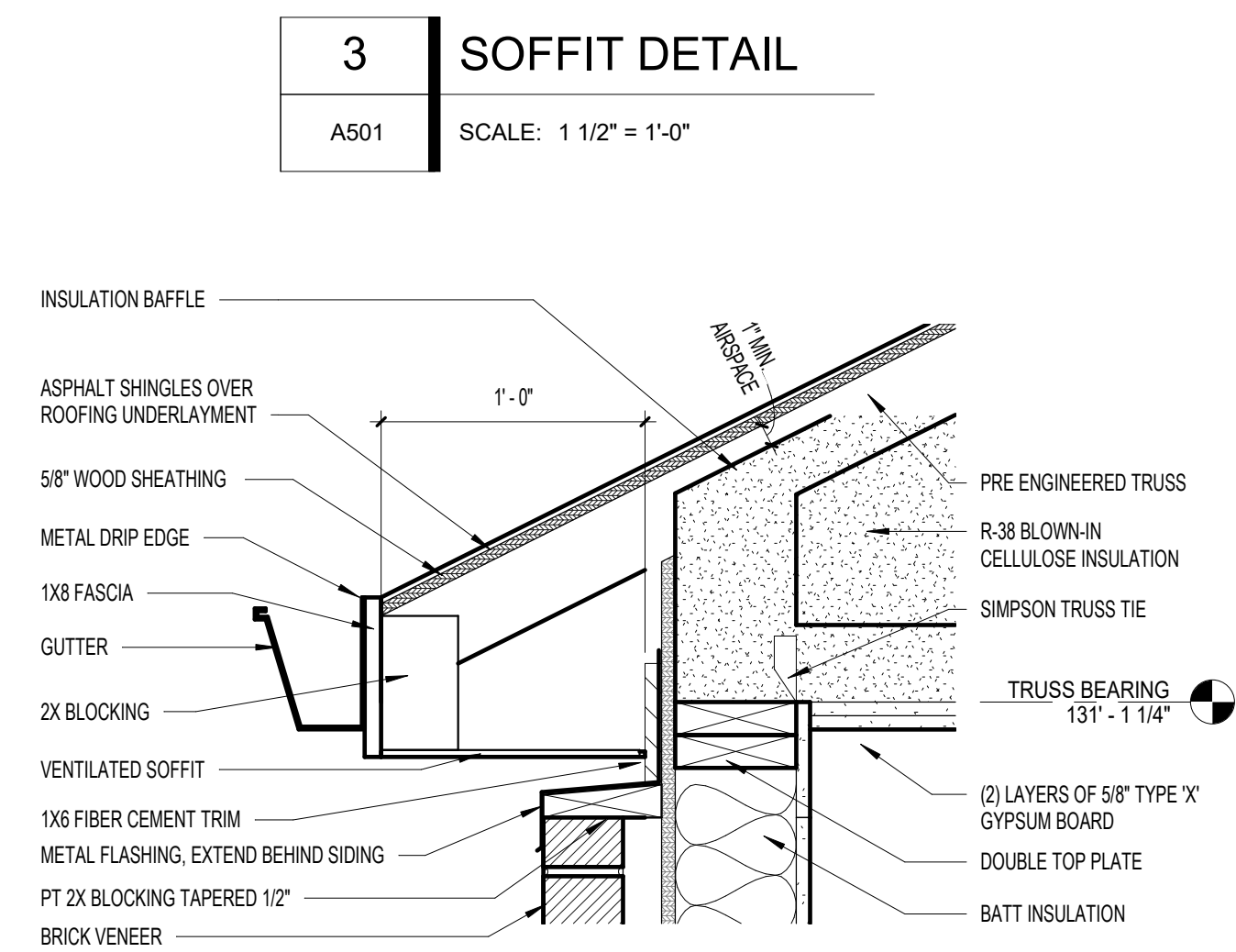
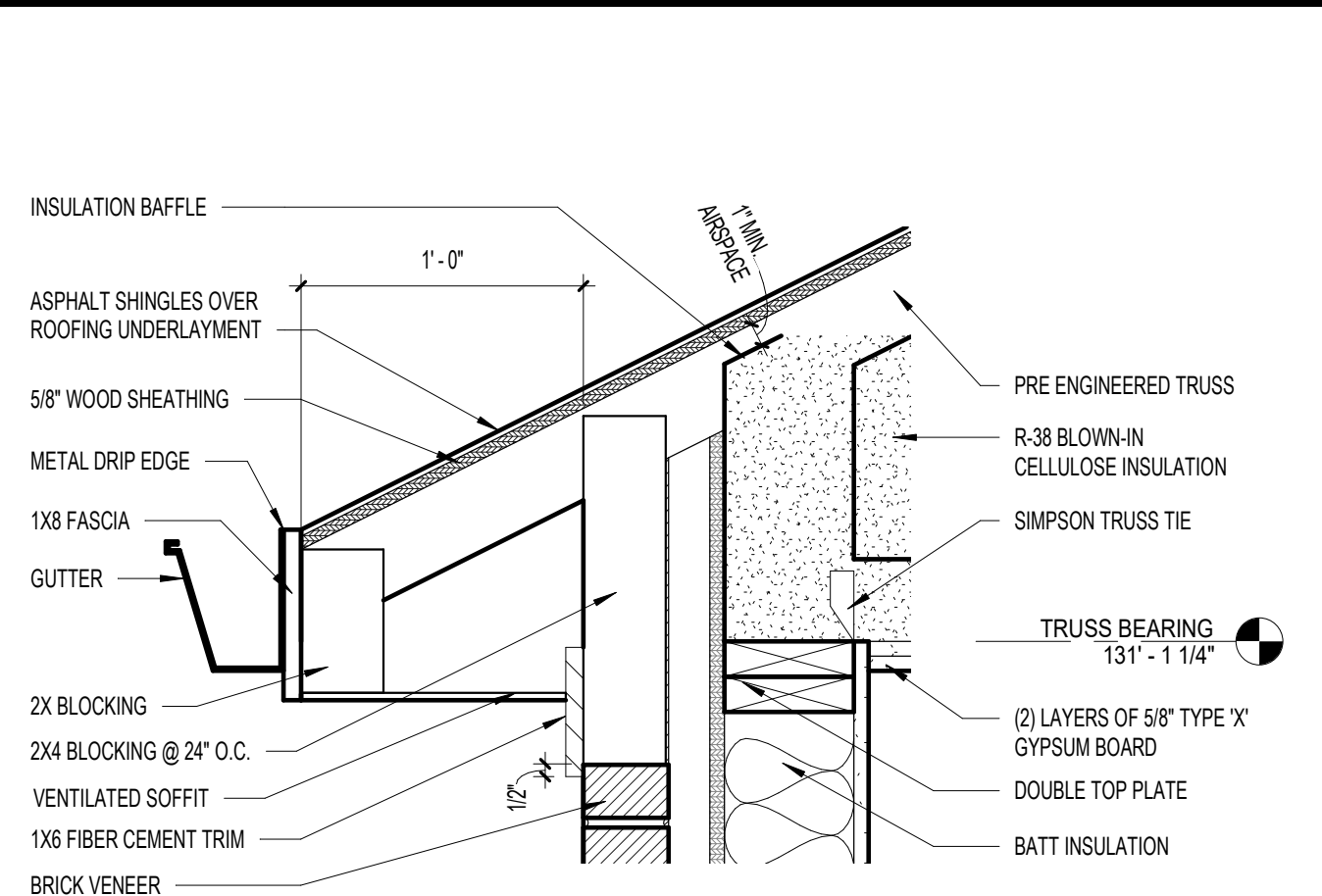
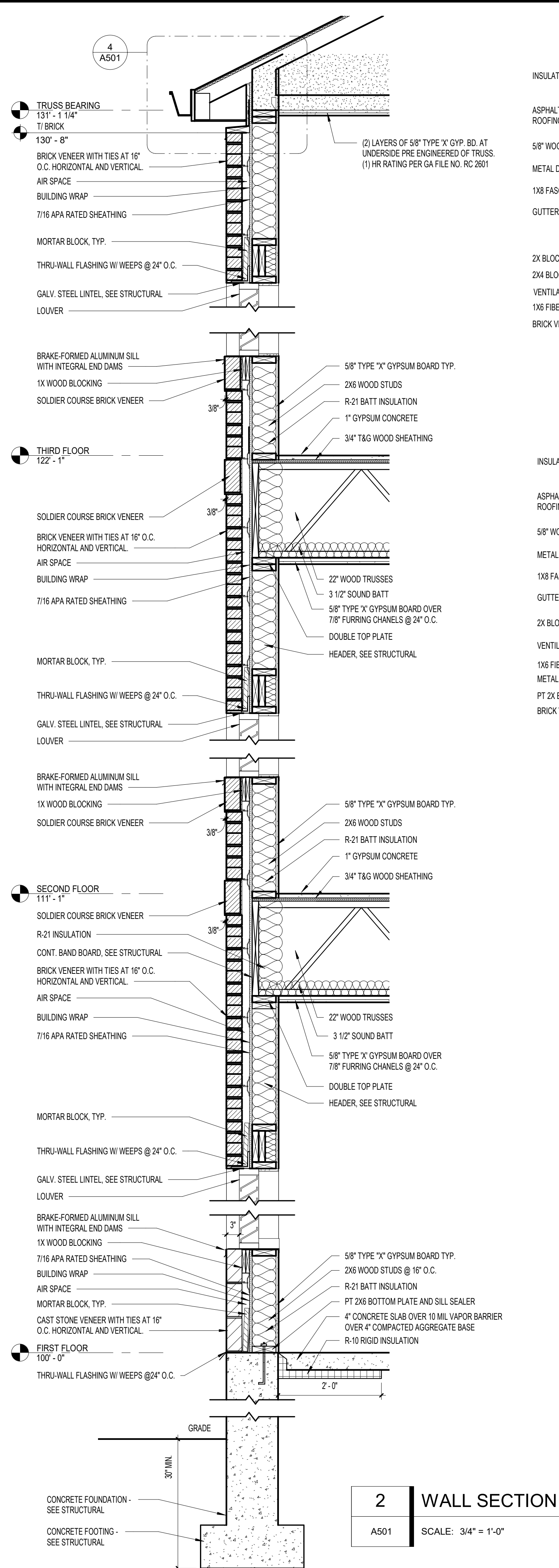
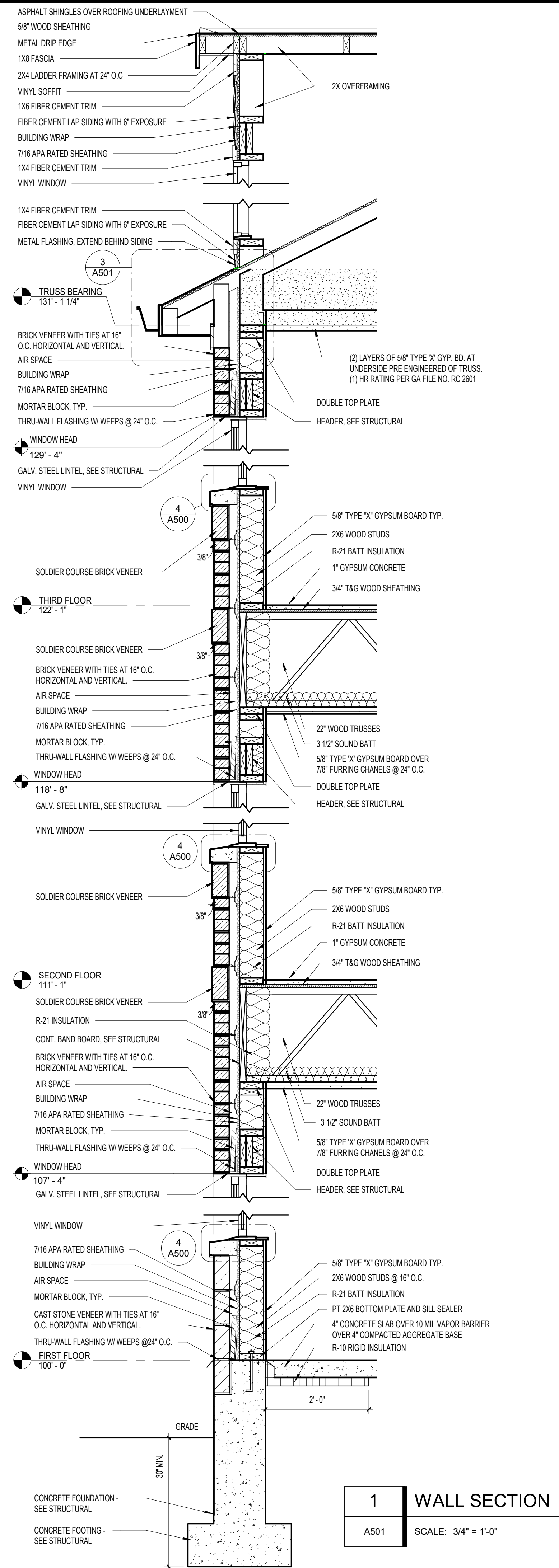
NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

WALL SECTIONS & DETAILS

21-116

A500

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**GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES PSH**

2631 GILBERT AVE.
Cincinnati, OH 45206

NO.	DESCRIPTION	DATE
	PERMIT SET	04/13/23

WALL SECTIONS & DETAILS

21-116

A501

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GENERAL NOTES - DOOR & FRAME SCHEDULE

- A. ALL DOORS SHALL BE MADE READILY OPERABLE FROM SIDE WHICH EGRESS IS TO BE MADE WITHOUT A KEY OR SPECIAL KNOWLEDGE
- B. ALL LATCHSETS AND LOCKSETS ARE TO BE CYLINDRICAL SETS WITH ADA COMPLIANT LEVER HANDLES
- C. PROVIDE WALL MOUNTED STOPS WHENEVER POSSIBLE
- D. ALL FIRE RATED DOORS SHALL BE LATCHING AND SELF OR AUTOMATIC CLOSING IN ACCORDANCE WITH SECTION 716.5.9 OF THE 2017 OHIO BUILDING CODE
- E. HOLLOW METAL DOORS TO BE INSULATED & GALVANIZED AT EXTERIOR LOCATIONS
- F. HOLLOW METAL FRAMES TO BE GALVANIZED AT EXTERIOR LOCATIONS

DOOR & FRAME ABBREVIATIONS

- AL ALUMINUM
- HM HOLLOW METAL
- PF PREFINISHED
- PT PAINT
- SF STOREFRONT
- ST STEEL
- WD WOOD

DOOR AND FRAME SCHEDULE - RESIDENTIAL UNITS

#	DOOR						FRAME						SIDELITE WIDTH	RATING (MINUTES)	HDWR SET	NOTES	DOOR #
	# OF LEAFS	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	SILL					
A1	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					HW-1		A1	
B1	1	3'-0"	7'-0"	D2	WD	PT	F1	WD	PT					HW-3		B1	
C1	1	3'-0"	7'-0"	D2	WD	PT	F1	WD	PT					HW-2		C1	
D1	1	2'-6"	7'-0"	D2	WD	PT	F1	WD	PT					HW-3		D1	
D2	2	2'-0"	7'-0"	D2	WD	PT	F1	WD	PT					HW-3		D2	
D3	1	1'-6"	7'-0"	D2	WD	PT	F1	WD	PT					HW-3		D3	
D4	1	3'-0"	7'-0"	D2	WD	PT	F1	WD	PT					HW-3		D4	
D5	1	2'-6"	7'-0"	D2	WD	PT	F1	WD	PT					HW-3		D5	
D6	1	1'-6"	7'-0"	D2	WD	PT	F1	WD	PT					HW-3		D6	

DOOR AND FRAME SCHEDULE - COMMON AREAS

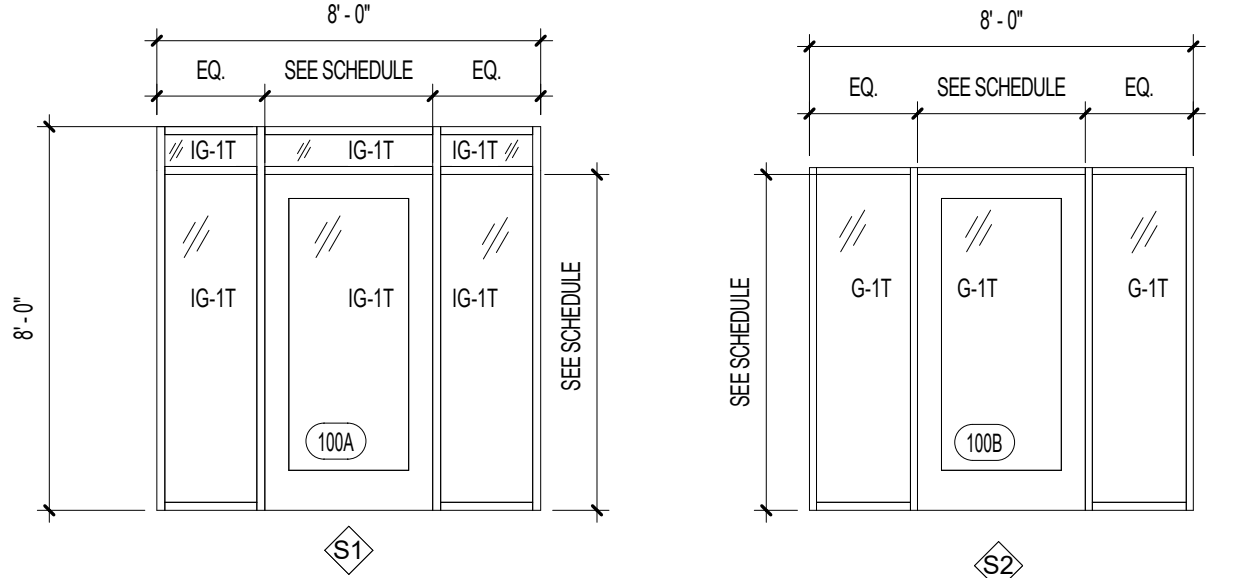
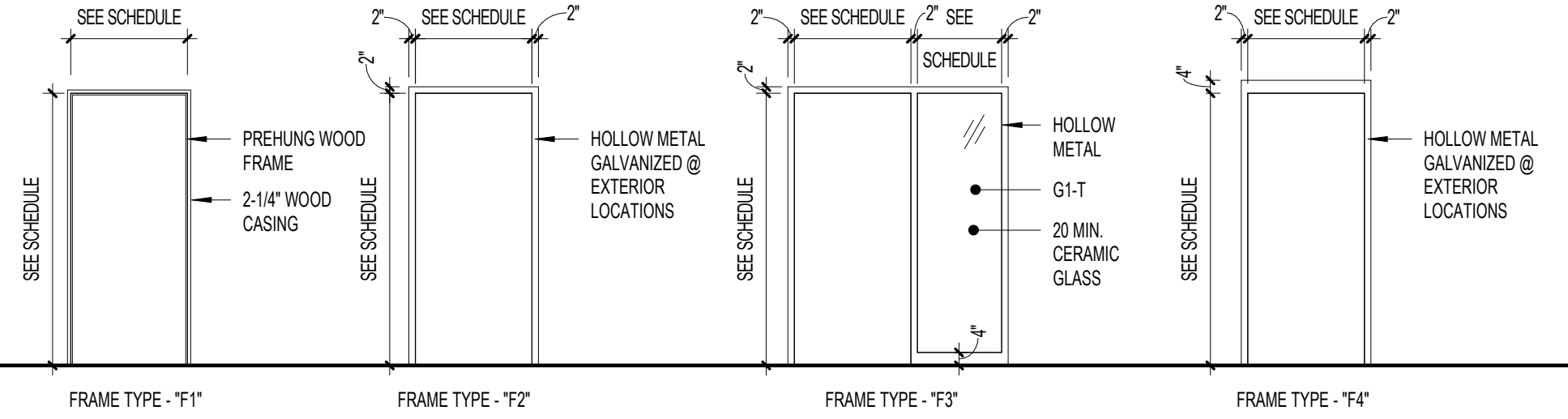
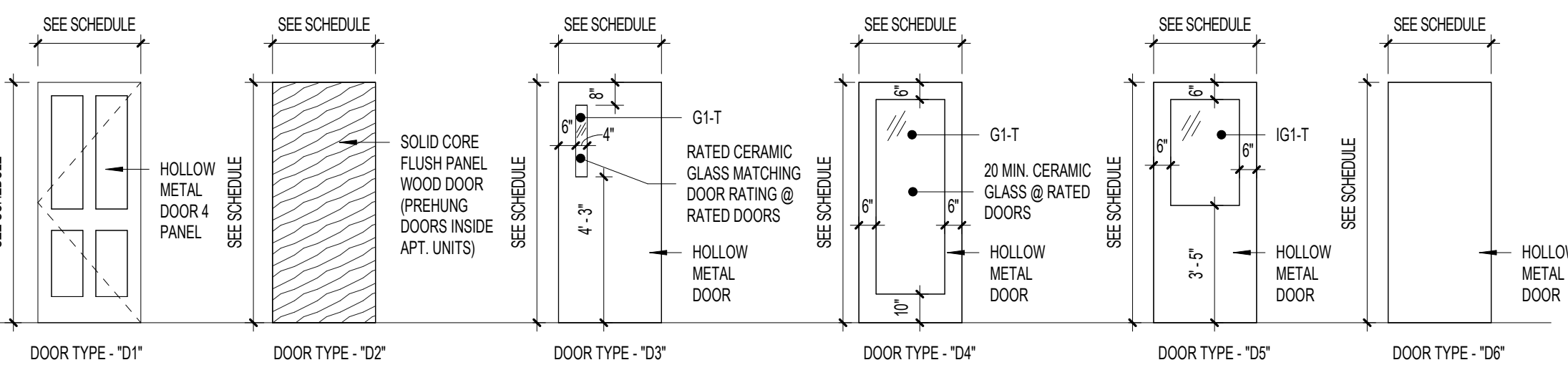
#	DOOR						FRAME						SIDELITE WIDTH	RATING (MINUTES)	HDWR SET	NOTES	DOOR #
	# OF LEAFS	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB	SILL					
001	1	3'-8"	7'-0"	D1	HM	PT	F2	HM	PT					HW-10		001	
001S.1	1	3'-8"	7'-0"	D6	HM	PT	F4	HM	PT					HW-9		001S.1	
001S.2	1	3'-8"	7'-0"	D3	HM	PT	F2	HM	PT					90 HW-10		001S.2	
003	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-10		003	
004	1	4'-0"	7'-0"	D6	HM	PT	F2	HM	PT					90 HW-6		004	
005	1	3'-0"	7'-0"	D6	HM	PT	F2	HM	PT					20 HW-6		005	
006	1	3'-0"	7'-0"	D6	HM	PT	F2	HM	PT					HW-6		006	
100A	1	3'-6"	7'-0"	S1	AL	PF	S1	AL	PF					HW-4		100A	
100B	1	3'-6"	7'-0"	S2	AL	PF	S2	AL	PF					HW-5		100B	
100C	1	2'-6"	7'-0"	D6	HM	PT	F2	HM	PT					HW-6		100C	
100S.1	1	3'-0"	7'-0"	D3	HM	PT	F2	HM	PT					60 HW-10		100S.1	
100S.2	1	3'-0"	7'-0"	D6	HM	PT	F4	HM	PT					HW-9		100S.2	
101S.1	1	3'-0"	7'-0"	D3	HM	PT	F2	HM	PT					90 HW-10		101S.1	
102	1	3'-0"	7'-0"	D1	HM	PT	F3	HM	PT				1'-8"	20 HW-7		102	
103	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-6		103	
105	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-6		105	
107A	1	3'-0"	7'-0"	D4	HM	PT	F2	HM	PT					20 HW-7		107A	
107B	1	2'-6"	7'-0"	D6	HM	PT	F2	HM	PT					HW-13		107B	
110	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-6		110	
111A	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-7		111A	
111B	1	2'-6"	7'-0"	D6	HM	PT	F2	HM	PT					HW-3		111B	
112	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-6		112	
113	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-11	RM-2	113	
200S.1	1	3'-0"	7'-0"	D3	HM	PT	F2	HM	PT					60 HW-10		200S.1	
201	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-6		201	
201S.1	1	3'-0"	7'-0"	D3	HM	PT	F2	HM	PT					90 HW-10		201S.1	
202	1	2'-6"	7'-0"	D6	HM	PT	F2	HM	PT					HW-13		202	
204	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-6		204	
300S.1	1	3'-0"	7'-0"	D3	HM	PT	F2	HM	PT					60 HW-10		300S.1	
301	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-6		301	
301S.1	1	3'-0"	7'-0"	D3	HM	PT	F2	HM	PT					90 HW-10		301S.1	
302A	1	3'-0"	7'-0"	D1	HM	PT	F3	HM	PT				1'-8"	20 HW-7		302A	
302B	1	2'-6"	7'-0"	D6	HM	PT	F2	HM	PT					HW-13		302B	
304	1	3'-0"	7'-0"	D1	HM	PT	F2	HM	PT					20 HW-6		304	

HARDWARE SETS

- HW-1 1-1/2" PAIR SELF-CLOSING HINGES, ENTRY LOCKSET, DOOR STOP
- HW-2 1-1/2" PAIR HINGES, PRIVACY LOCKSET, DOOR STOP
- HW-3 1-1/2" PAIR HINGES, PASSAGE SET, DOOR STOP
- HW-4 1-1/2" PAIR HINGES, ACCESS CONTROL HARDWARE, CLOSER, WEATHERSTRIPPING, THRESHOLD, SWEEP
- HW-5 1-1/2" PAIR HINGES, ACCESS CONTROL HARDWARE, CLOSER
- HW-6 1-1/2" PAIR HINGES, STOREROOM LOCKSET, CLOSER, DOOR STOP
- HW-7 1-1/2" PAIR HINGES, OFFICE LOCKSET, CLOSER, DOOR STOP
- HW-8 1-1/2" PAIR HINGES, ACCESS CONTROL HARDWARE, CLOSER, WEATHERSTRIPPING, THRESHOLD, SWEEP, DRIP CAP
- HW-9 1-1/2" PAIR HINGES, HARD WIRED ALARMED PANIC HARDWARE (NO EXTERIOR HARDWARE), CLOSER, WEATHERSTRIPPING, THRESHOLD, SWEEP, DRIP CAP
- HW-10 1-1/2" PAIR HINGES, PASSAGE SET, CLOSER, DOOR STOP
- HW-11 1-1/2" PAIR HINGES, PRIVACY LOCKSET, CLOSER, DOOR STOP
- HW-12 1-1/2" PAIR HINGES, OFFICE LOCKSET, AUTOMATIC FLUSH BOLTS, CLOSER WITH COORDINATOR
- HW-13 1-1/2" PAIR HINGES, STOREROOM LOCKSET, DOOR STOP

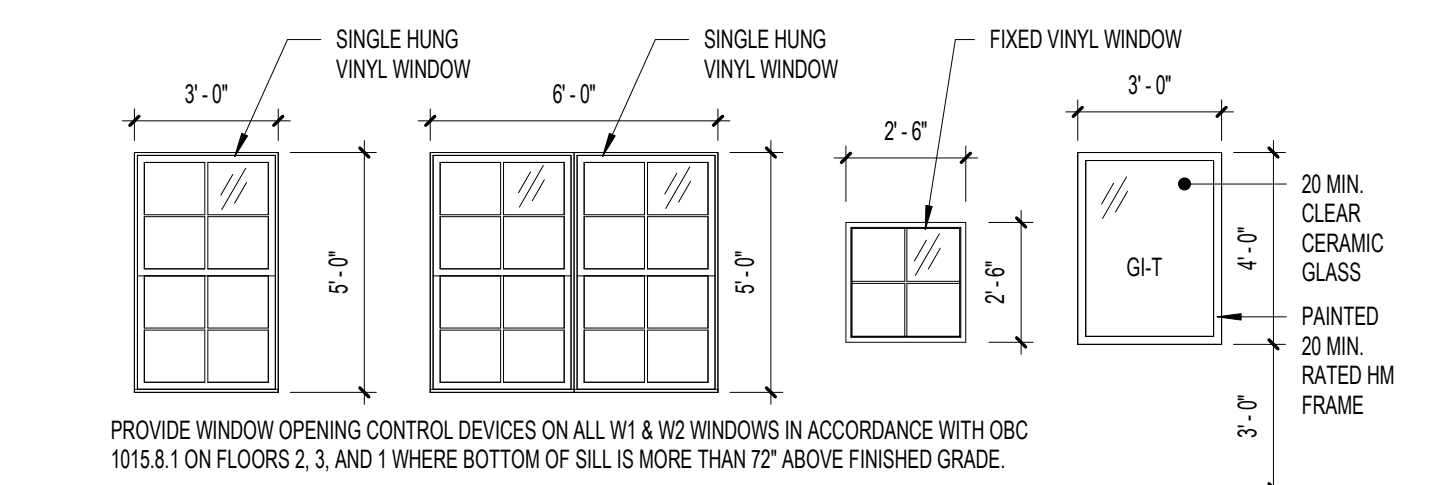
REMARKS LEGEND

- RM-1 UNDERCUT DOOR 1"
- RM-2 UNDERCUT DOOR 3/4"



1 DOOR TYPES

A600 SCALE: 1/4" = 1'-0"



GLASS TYPE LEGEND

MARK	DESCRIPTION
G-1	1/4" CLEAR GLASS
G-1T	1/4" CLEAR GLASS, TEMPERED
IG-1	1" INSULATING GLASS
IG-1T	1" INSULATING GLASS, TEMPERED

WINDOW TYPE COMMENTS

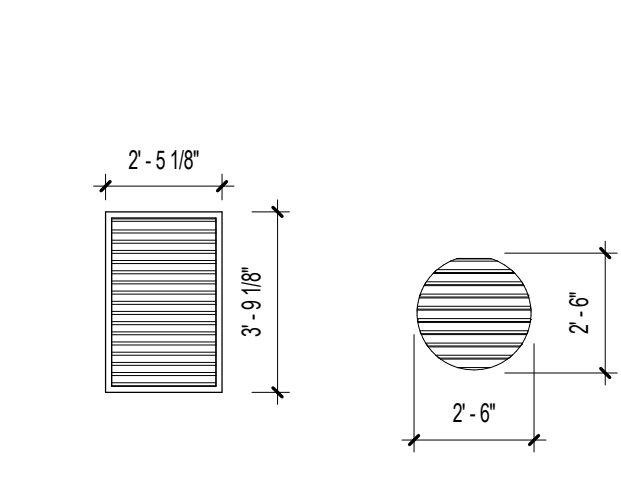
W1	BASIS OF DESIGN: QUAKER CRUSADER SINGLE-HUNG VINYL WINDOW WITH INSULATING LOW-E GLASS
W2	BASIS OF DESIGN: QUAKER CRUSADER SINGLE-HUNG VINYL WINDOW WITH INSULATING LOW-E GLASS
W3	BASIS OF DESIGN: QUAKER CRUSADER FIXED VINYL WINDOW WITH INSULATING LOW-E GLASS
W4	

4 WINDOW TYPES

A600 SCALE: 1/4" = 1'-0"

2 FRAME TYPES

A600 SCALE: 1/4" = 1'-0"



5 LOUVER TYPES

A600 SCALE: 1/4" = 1'-0"

LOUVER TYPE COMMENTS

- L1 PREFINISHED METAL LOUVER BY HVAC CONTRACTOR. VERIFY LOUVER TYPE AND SIZE WITH HVAC CONTRACTOR
- L2 PREFINISHED ROUND DECORATIVE METAL LOUVER. SURFACE MOUNTED.

ROOM FINISH SCHEDULE - APARTMENT UNITS

ROOM NAME	FLOOR	BASE	WALL	CEILING	REMARKS
BATH	F1	B1	W1	C1	
BATH (ACCESSIBLE UNITS ONLY)	F2	B2	W1	C1	
BEDROOM	F1	B1	W1	C1	
KITCHEN	F1	B1	W1	C1	RM-1
LIVING AREA	F1	B1	W1	C1	

ROOM FINISH SCHEDULE - COMMON AREAS

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL	CEILING	REMARKS
001	CORRIDOR	F1	B1	W1	C2	RM-3
001E	ELEVATOR	F1	-	-	-	
001S	STAIR	F1,F3	B1	W1	C1	RM-2
002	CORRIDOR	F1	B1	W1	C2	RM-3
003	LAUNDRY	F2	B2	W1	C2	RM-3
004	ELEV EQUIP	-	-	-	-	RM-3
005	MECH	-	-	-	-	RM-3
006	SPRINKLER	-	-	-	-	RM-3
100	VESTIBULE	F4	B1	W1	C2	RM-3
100E	ELEVATOR	F1	-	-	-	
100S	STAIR	F1,F3	B1	W1	C1	RM-2
101	LOBBY	F1	B1	W1	C2	RM-3
101S	STAIR	F1,F3	B1	W1	C1	RM-2
102	OFFICE	F1	B1	W1	C2	RM-3
103	MECH	F1	B1	W1	C1	RM-3
104	CORRIDOR	F1	B1	W1	C2	RM-3
105	MECH	F1	B1	W1	C1	RM-3
106	CORRIDOR	F1	B1	W1	C2	RM-3
107	COMMUNITY ROOM	F1	B1	W1	C2	RM-1, RM-3
108	CORRIDOR	F1	B1	W1	C2	RM-3
109	CORRIDOR	F1	B1	W1	C2	RM-3
110	MECH / JAN	F1	B1	W1	C1	RM-3
111	OFFICE	F1	B1	W1	C1	RM-3
112	ELEC	F1	B1	W1	C1	RM-3
113	RR	F2	B2	W1	C1	RM-3
200	CORRIDOR	F1	B1	W1	C2	RM-3
200E	ELEVATOR	F1	-	-	-	
200S	STAIR	F1,F3	B1	W1	C1	RM-2
201	MECH	F1	B1	W1	C1	RM-3
201S	STAIR	F1,F3	B1	W1	C1	RM-2
202	SEATING	F1	B1	W1	C2	RM-3
203	CORRIDOR	F1	B1	W1	C2	RM-3
204	MECH	F1	B1	W1	C1	RM-3
300	CORRIDOR	F1	B1	W1	C2	RM-3
300E	ELEVATOR	F1	-	-	-	
300S	STAIR	F1,F3	B1	W1	C1	RM-2
301	MECH	F1	B1	W1	C1	RM-3
301S	STAIR	F1,F3	B1	W1	C1	RM-2
302	GROUP ROOM	F1	B1	W1	C2	RM-3
303	CORRIDOR	F1	B1	W1	C2	RM-3
304	MECH	F1	B1	W1	C1	RM-3

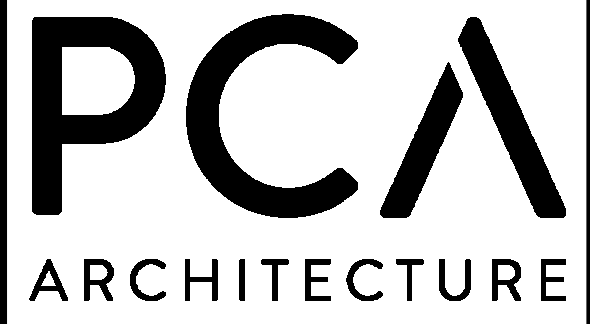
- GENERAL NOTES - FINISHES**
- A. FINISHES SHALL COMPLY WITH 2017 OHIO BUILDING CODE
 - B. FINISHES IN CLOSETS SHALL MATCH THAT OF THE ROOM WITH WHICH THEY ARE ASSOCIATED
 - C. FLOORING COLOR SELECTIONS SHALL PROVIDE A COLOR CONTRAST BETWEEN DIFFERENT FLOORING MATERIALS
 - D. LOW TRANSITION STRIPS SHALL BE USED BETWEEN DIFFERING FLOORING MATERIALS
 - E. ALL PAINT SHALL BE LOW VOC

FINISH LEGEND

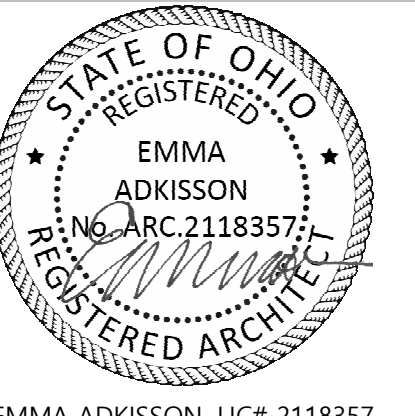
- FLOOR:**
- F1 - LUXURY VINYL TILE
 - F2 - CERAMIC TILE
 - F3 - LUXURY VINYL TILE @ LANDINGS, RUBBER TREADS AND RISERS ON STAIRS
 - F4 - WALK-OFF CARPET TILE
 - F5 - RUBBER ATHLETIC FLOORING
 - F6 - SEALED CONCRETE
- BASE:**
- B1 - 4" HIGH RESILIENT BASE
 - B2 - 4" CERAMIC BASE
- WALL:**
- W1 - PAINTED GYPSUM BOARD / MASONRY - LOW VOC
- CEILING:**
- C1 - PAINTED GYPSUM BOARD - LOW VOC
 - C2 - SUSPENDED ACOUSTIC PANEL CEILING

REMARKS LEGEND

- RM-1 EXTEND FLOORING UNDER CABINETS AND PAINT WALL BEHIND CABINETS
- RM-2 PAINT STRINGERS
- RM-3 (2) LAYERS OF GYPSUM BOARD AT UNDERSIDE OF FRAMING ABOVE



906 MONMOUTH STREET
NEWPORT, KY 41071
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859.431.8612



EMMA ADKISSON, LIC# 2118357
EXPIRATION DATE 12/31/2023

GEIGER HOUSE FOR VETERANS / KLEKAMP FAMILY RESIDENCES PSH

2631 GILBERT AVE.
Cincinnati, OH 45206

NO.	DESCRIPTION	DATE
80%	OHFA REVIEW PERMIT SET	01/04/23 04/13/23

SCHEDULES AND OPENING TYPES

21-116

A600

GENERAL STRUCTURAL NOTES

COPIES OF PUBLICATIONS REFERENCED IN THESE GENERAL STRUCTURAL NOTES ARE AVAILABLE FOR REVIEW AT ADVANTAGE GROUP ENGINEERS, INC. CONTRACTORS UNFAMILIAR WITH THESE PUBLICATIONS MUST REVIEW THEM PRIOR TO CONSTRUCTION.

GOVERNING CODE

OHIO BUILDING CODE - 2017, BASED ON 2015 IBC

CLASSIFICATION OF BUILDING STRUCTURE RISK CATEGORY II, TABLE 1604.5

DESIGN LOADS

- 1. ROOF LOAD:
A. MINIMUM LIVE LOAD OR SNOW LOAD (P): 20 PSF
B. ROOF MEMBRANE: 1 PSF
C. INSULATION: 3 PSF
D. SHEATHING: 2 PSF
E. JOIST FRAMING LOAD: 3 PSF
F. CEILING (5/8" DRYWALL): 3 PSF
G. SPRINKLERS: 3 PSF
H. DUCTS, LIGHTS, MISC. MECHANICAL: 2 PSF
* MINIMUM SNOW LOAD GOVERNED BY Pf = 20 * I (PSF)
2. SNOW LOAD:
A. GROUND SNOW LOAD, Pg = 20 PSF MODIFIED BY APPLICABLE DRIFT COEFFICIENTS.
B. FLAT ROOF SNOW LOAD, Pf = 17 PSF MODIFIED BY APPLICABLE BUILDING COEFFICIENTS.
C. SNOW LOAD IMPORTANCE FACTOR I = 1.00
D. SNOW EXPOSURE FACTOR Ce = 1.0
E. THERMAL FACTOR, Ct = 1.00
F. COORDINATE ROOF FRAMING WITH FINAL SELECTION OF ROOF SUPPORT MECHANICAL EQUIPMENT AND ASSOCIATED OPENINGS. ITEMS TO BE COORDINATED INCLUDE SIZE, LOCATION, TOTAL WEIGHT, WEIGHT DISTRIBUTION, AND SUPPORT FRAME REQUIREMENTS.

- 3. FLOOR LOAD:
A. LIVE LOAD:
a. CORRIDORS, LOBBIES, PUBLIC SPACES: 100 PSF
b. RESIDENTIAL UNITS: 40 PSF
B. JOIST FRAMING LOAD: 3 PSF
C. CEILING (5/8" DRYWALL): 3 PSF
D. 1" GYPSUM TOPPING: 12 PSF
E. SPRINKLERS: 3 PSF
F. DUCTS, LIGHTS, MISC. MECHANICAL: 2 PSF
4. WIND LOAD:
A. MAIN WINDFORCE - RESISTING SYSTEM: 115 MPH PER ASCE 7-10 (3-SECOND GUST-LOAD RESISTANCE FACTORED DESIGN).
B. WIND EXPOSURE B
C. BASIC WIND VELOCITY PRESSURE, qp = 19.62 PSF (11.77 PSF ASD).
D. INTERNAL GUST PRESSURE COEFFICIENT Gcp = 0.18, ENCLOSED BUILDING.

- 5. SEISMIC LOAD:
A. BUILDING SITE CLASSIFICATION = D
B. SPECTRAL RESPONSE ACCELERATION, Ss = 14.5%
a. Sds (EQUATION 16-18) = 11.6%
C. SPECTRAL RESPONSE ACCELERATION, S1 = 7.6%
d. Sd1 (EQUATION 16-19) = 8.6%
D. SEISMIC DESIGN CATEGORY, SDC = B
E. SEISMIC IMPORTANCE FACTOR = 1.0
F. SEISMIC FORCE RESISTING SYSTEM = LIGHT FRAME SHEAR WALLS WITH WOOD PANELS
G. RESPONSE MODIFICATION FACTOR, R = 6.5, TABLE 12.2-1 ASCE 7
H. ANALYSIS PROCEDURE = ELPF
I. SEISMIC RESPONSE COEFFICIENT, Cs = 0.018 EQUATION 12.8-2
J. DESIGN BASE SHEAR, V = Cs * W MAXIMUM

- 6. CONCENTRATED LOADS: 2000 POUNDS OVER 2.5 FEET SQUARE.
7. SPECIAL LOADS:
A. INTERIOR FINISH: 5 PSF HORIZONTAL LOAD.
B. HANDRAILS: 200 POUNDS CONCENTRATED LOAD AT ANY POINT IN ANY DIRECTION OR 50 PLF UNIFORM LOAD IN ANY DIRECTION.
C. GUARDRAILS:
a. TOP RAIL: 200 POUNDS CONCENTRATED AT ANY POINT IN ANY DIRECTION OR 50 PLF UNIFORM LOAD HORIZONTALLY SIMULTANEOUSLY WITH 100 PLF UNIFORM LOAD VERTICALLY.
b. IN-FILL AREAS: 200 POUNDS APPLIED ON A 1 SQUARE FOOT AREA.

- D. IMPACT
a. ELEVATORS PER SECTION 1607.8.1
b. MACHINERY PER SECTION 1607.8.2
8. SPECIAL INSPECTION REQUIREMENTS PER SECTION 1704. SEE CONSTRUCTION SPECIFICATIONS AND OR SPECIAL INSPECTION BOOKLET ADDENDUM REQUIREMENTS.

SPECIAL INSPECTIONS

PER THE REQUIREMENTS OF CHAPTER 17 SECTION 1704.1 OF THE REFERENCED BUILDING CODE, SPECIAL INSPECTION IS REQUIRED FOR THE PROPOSED BUILDING CONSTRUCTION. SPECIAL INSPECTION INVOLVES THE VERIFICATION OF COMPLIANCE OF MATERIALS, INSTALLATION, FABRICATION, ERECTION AND OR PLACEMENT OF COMPONENTS WITH THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTION IS PART OF THE PERMIT APPLICATION PROCESS FUNDED BY THE OWNER OR OWNER'S AGENT.

A STATEMENT OF SPECIAL INSPECTION LISTING THE REQUIREMENTS ALONG WITH A SCHEDULE OF TESTING, SUBMITTAL REVIEWS, AND FIELD OBSERVATION REQUIREMENTS HAS BEEN PREPARED BY THE STRUCTURAL ENGINEER OF RECORD IN ACCORDANCE WITH SECTION 106.1 OF THE BUILDING CODE. THIS STATEMENT INCLUDES A COMPLETE LIST OF MATERIAL AND ACTIVITY REQUIRING INSPECTION. IT IS THE RESPONSIBILITY OF ALL PARTIES TO BECOME FAMILIAR WITH THIS REQUIREMENT AND UNDERSTAND THE GUIDELINES AND REQUIREMENTS OF EACH PARTY INVOLVED WITH THE CONSTRUCTION. A COPY OF THE STATEMENT OF SPECIAL INSPECTION IS AVAILABLE UPON REQUEST. THE SPECIAL INSPECTOR COORDINATOR SHALL COORDINATE WITH THE OWNER, CONTRACTOR AND THE DESIGN PROFESSIONALS AND SCHEDULE THE INSPECTIONS ACCORDINGLY.

SUBSTITUTIONS, SUBMITTALS, AND RFI'S

- 1. CONTRACTOR SHALL SUBMIT ALL SUBSTITUTIONS FOR APPROVAL PRIOR TO CONSTRUCTION WITH THE FOLLOWING INFORMATION:
A. THE SCOPE, EXTENT, AND ALL LOCATIONS EFFECTED BY THE PROPOSED SUBSTITUTION.
B. SPECIFIC DRAWING OR SPECIFICATION REFERENCES FOR THE ORIGINAL PRODUCT OR SYSTEM SPECIFIED.
C. THE REASON FOR THE PROPOSED CHANGE.
D. COST SAVINGS AND/OR IMPACT ON SCHEDULE.
E. IMPACT ON ANY GUARANTEES OR WARRANTIES ASSOCIATED WITH THE PRODUCT OR SYSTEM.
F. COORDINATION REQUIRED WITH OTHER TRADES OR ADJACENT MATERIALS.
G. ANY AND ALL DEVIATIONS FROM THE SPECIFIED REQUIREMENTS.
2. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR IN A TIMELY MANNER TO PROVIDE AN ADEQUATE AMOUNT OF TIME FOR REVIEW.
A. ALL SUBMITTALS MUST BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR REVIEW. ANY SHOP DRAWINGS RECEIVED THAT DO NOT BEAR THE STAMP OF THE GENERAL CONTRACTOR AS WELL AS CLEAR EVIDENCE THAT THE SUBMITTAL HAS BEEN REVIEWED WILL BE REJECTED WITHOUT REVIEW.
B. REVIEW BY STRUCTURAL ENGINEER OF RECORD WILL BE FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND CONFORMANCE WITH THE DESIGN CONCEPT. THIS REVIEW DOES NOT IN ANYWAY RELIEVE THE CONTRACTOR AND/OR THE CONTRACTOR'S SUBCONTRACTORS FROM RESPONSIBILITY FOR ERRORS OR DEVIATIONS FROM THE CONTRACT REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, PROPER FIT, QUALITIES OF THE MATERIALS, AND COORDINATION WITH OTHER TRADES AND SUPPLIERS.
3. REQUESTS FOR INFORMATION (RFI'S) SHALL BE SUBMITTED IN A TIMELY MANNER WHEN INFORMATION IS MISSING FROM THE CONSTRUCTION DOCUMENTS, INFORMATION IS CONFLICTING WITHIN THE CONSTRUCTION DOCUMENTS, OR IS AMBIGUOUS.
A. THE CONTRACTOR MUST USE DUE DILIGENCE IN ATTEMPTING TO FIND ANY ANSWER PRIOR TO SUBMITTING AN RFI.
B. IF THE INFORMATION REQUESTED IN AN RFI IS APPARENT FROM FIELD OBSERVATION, IS CONTAINED IN THE CONSTRUCTION DOCUMENTS, OR IS REASONABLY INFERRABLE FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ALL REASONABLE COSTS CHARGED RELATED TO ADDITIONAL SERVICES INCURRED DUE TO ANSWERING THE RFI.

CONSTRUCTION AND SAFETY

- 1. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
2. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.

FOUNDATIONS

- 1. SOIL CONDITIONS
A. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS DESCRIBED IN THE GEOTECHNICAL ENGINEER'S REPORT BY CSI INC TITLED "THE GEIGER HOUSE FOR VETERANS" DATED DECEMBER 21, 2022 THE GEOTECHNICAL ENGINEER'S REPORT IS AVAILABLE UPON REQUEST.
2. BOTTOM OF FOUNDATION ELEVATION INDICATED ARE FOR BIDDING PURPOSES AND MAY BE LOWERED TO SUIT SUB-SURFACE SOIL CONDITION. BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR FLOWABLE FILL CONCRETE (1500 PSI) UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.
3. FOOTINGS AND GRADE BEAMS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL.
4. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) SOIL THAT HAS BEEN STABILIZED WITH A RAMMED AGGREGATE PIER FOUNDATION IMPROVEMENT SYSTEM. FOOTING BEARING PRESSURES ARE ASSUMED AT 2000 PSF, AND ARE TO BE VERIFIED AFTER SPECIALTY CONTRACTOR IS ENGAGED. RAMMED AGGREGATE PIER DESIGNER TO PROVIDE CONFIRMATION OF RAP DESIGN FOR 2000 PSF ALLOWABLE BEARING PRESSURE.
5. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.

6. COMPACTION:

- A. ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL CONSULTANT.
B. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR DENSITY AT THE OPTIMUM MOISTURE CONTENT.
C. BACKFILL AGAINST FOUNDATION WALLS ALONG INTERIOR FACE OF FOUNDATION WALLS SHALL BE CLAYEY MATERIAL COMPACTED IN 6" LIFTS TO 95% STANDARD PROCTOR DENSITY OR CONCRETE WITH A COMPRESSIVE STRENGTH OF fc = 500 PSI.
D. BACKFILL ALONG EXTERIOR FACE OF BASEMENT OR ALONG RETAINING TYPE WALLS SHALL BE A WELL-GRADED GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY UP TO WITHIN 24 INCHES OF THE FINISHED GRADE. TOP 24" OF BACKFILL SHALL BE COMPACTED CLAYEY MATERIAL. AT THE BOTTOM OF THE GRANULAR MATERIAL, PLACE A 4" DIAMETER PERFORATED FOUNDATION DRAINPIPE WITH POSITIVE DRAINAGE TO SUMP OR TO DAYLIGHT. AT EXTERIOR RETAINING WALLS, 4" DIAMETER WEEP HOLES AT 10'-0" ON CENTER MAXIMUM MAY BE INSTALLED IN LIEU OF PERFORATED FOUNDATION DRAIN.
E. BACKFILL ALONG EXTERIOR FACE OF SHALLOW WALL FOUNDATIONS TO BE COMPACTED CLAYEY MATERIAL; COMPACT TO 95% STANDARD PROCTOR.
F. FILL BELOW FLOOR SLABS TOP 12" OF SUBBASE BELOW INTERIOR FLOOR SLAB TO BE PROOF ROLLED TO 98% STANDARD PROCTOR DENSITY PRIOR TO PLACEMENT OF SLAB.
7. ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB.
8. SEAL UTILITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED CLAYEY BACKFILL OR LEAN CONCRETE TO CREATE A DAM TO PREVENT ENTRY OF WATER.
9. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION.

CONCRETE

- 1. CONCRETE WORK AND TESTING SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.
2. CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R "COLD WEATHER CONCRETING".
3. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301 SECTION 4.2.3.4 FIELD TEST DATA OR TRIAL MIXTURES.
4. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL.
5. MATERIALS: (fc BASED ON 28 DAY UNLESS NOTED)
A. CONCRETE UNLESS NOTED: fc = 4000 PSI, NORMAL AGGREGATE.
B. CONCRETE FOR INTERIOR FLOOR SLABS: fc = 4000 PSI AT 28 DAYS, 1800 PSI AT 3 DAYS, NORMAL WEIGHT AGGREGATE, MINIMUM PORTLAND CEMENT CONTENT PER ACI 301 TABLE 4.2.2.1, WATER NOT PERMITTED TO BE ADDED AT THE SITE, HRWR ADMIXTURE REQUIRED, MAXIMUM WATER/CEMENTITIOUS RATIO = 0.50.
C. CONCRETE FOR EXTERIOR FLAT WORK, WALKS, ETC.: fc = 4500 PSI, (4.5% TO 7.5% ENTRAINED AIR), MINIMUM PORTLAND CEMENT CONTENT = 520 #/CY, MAXIMUM WATER/CEMENTITIOUS RATIO = 0.45.
D. CONCRETE FOR FOUNDATION WALLS AND RETAINING WALLS WITH EXTERIOR EXPOSURE: fc = 4000 PSI, (4.5% TO 7.5% ENTRAINED AIR), MAXIMUM WATER/CEMENTITIOUS RATIO = 0.50.
E. CONCRETE FOR FOOTINGS: fc = 3000 PSI.
F. REINFORCING STEEL: ASTM A615 OR ASTM 996 (AXLE ONLY) 60 KSI YIELD DEFORMED BARS AND ASTM A1064 MESH, FLAT SHEETS ONLY.
G. FLY ASH: ASTM C618, TYPE F OR C. FLY ASH-TO-TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 25% MAXIMUM.
H. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989. TOTAL GROUND GRANULATED BLAST FURNACE SLAG-TO-TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 50% MAXIMUM.
I. HIGH RANGE WATER REDUCER (HRWR) ADMIXTURE: ASTM C494.
J. CHLORIDE CONTENT OF CONCRETE: LIMIT TOTAL CHLORIDE ION CONTENT TO AMOUNT INDICATED IN TABLE 4.2.2.6 OF ACI 318. ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.

- 6. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF HRWR.
7. LAP SPLICE REINFORCING BARS 48 BAR DIAMETERS UNLESS NOTED OTHERWISE:
8. BAR CLEARANCES BETWEEN ADJACENT BARS AND FORMWORK SHALL BE AS NOTED ON THE DRAWINGS OR A MINIMUM AS PER ACI REQUIREMENTS.
9. AT CORNERS AND INTERSECTIONS OF FOOTINGS, WALLS AND GRADE BEAMS, PROVIDE BENT BARS OF EQUAL SIZE AND AT SAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR INTO ABUTTING WALL OR GRADE BEAM. BARS SHALL HAVE EMBEDMENT OF 30 DIAMETERS (18" MIN.).
10. MACHINE TROWEL FINISH FLOOR SLAB AND CURE USING A METHOD RECOMMENDED BY ACI 302.1R (GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION) INCLUDING WATER CURING, WET COVERING, APPLICATION OF IMPERVIOUS SHEETING OR APPLICATION OF "CURE AND SEAL" TYPE CURING COMPOUND MEETING ASTM C-1315. FOR APPLICATIONS EXPOSED TO SUNLIGHT USE CLASS A (NON-YELLOWING) CURING COMPOUND. COORDINATE CURING METHOD WITH ARCHITECTURAL FLOOR FINISHES THAT REQUIRE ADHESION TO THE SLAB (SUCH AS TILE) TO INSURE PROPER BOND.

- 11. FLOOR SLAB-ON-GRADE SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES PER ASTM E-1155 AND ACI 117: F(FLATNESS) F(LLEVELNESS)
A. SPECIFIED OVERALL VALUE: 25 / 20
B. MINIMUM LOCAL VALUE: 18 / 13

C. MAXIMUM GAP UNDER 10 FT. UNLEVELED STRAIGHTEDGE = 1/4".

- 12. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. VAPOR BARRIER, WHERE REQUIRED, SHALL BE PLACED OVER COMPACTED GRANULAR SUBBASE.
13. AT SLAB AND WALL OPENING CORNERS AND REENTRANT CORNERS, PROVIDE (1) #5 BAR IN EACH FACE PARALLEL TO EACH EDGE EXTENDING A MINIMUM OF 2'-0" PAST EDGE OF OPENING. THIS STEEL MAY BE OMITTED IF TYPICAL REINFORCING STEEL EXCEEDS THIS MINIMUM REQUIREMENT.
14. REINFORCE ALL INTERIOR SLABS ON GROUND WITH 6 X 6 - W2.9 X W2.9 (42#) MESH. LOCATE MESH 2" CLEAR BELOW TOP OF SLAB.
15. LAP WELDED WIRE FABRIC MINIMUM 1 FULL SPACE PLUS 2".
16. DO NOT BACKFILL AGAINST BASEMENT FOUNDATION WALLS UNTIL ADJACENT FLOOR STRUCTURE AND CONCRETE/DECKING IS IN PLACE TO BRACE THE TOP OF THE WALL.
17. CAST IN CONTINUOUS DOVETAILED ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS; 24" O.C. FOR PARALLEL SURFACES AND AT CENTERLINE OF MASONRY FOR PERPENDICULAR WALLS.
18. FINISH OF CONCRETE HANDICAP RAMPS TO CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). COORDINATE LOCATION AND PATTERN WITH ARCHITECTURAL DRAWINGS.
19. CONTROL JOINTS IN SLABS ON GROUND SHALL BE LOCATED AT 12'-0" MAXIMUM SPACING AND SHALL CREATE SECTIONS OF SLAB WITH A MAXIMUM ASPECT RATIO OF 1 1/2 TO 1. CONTROL JOINTS SHALL BE SAWN AND SHALL BE A MINIMUM OF 1/4 OF THE SLAB THICKNESS DEEP. THE CONTROL JOINT SHALL BE SAWN AS SOON AS THE SAW BLADE CAN CUT THE CONCRETE WITHOUT DISPLACING THE AGGREGATE. CUT EVERY OTHER MESH WIRE AT THE CONTROL JOINT LOCATION PRIOR TO PLACING CONCRETE. IF AN EARLY-CUTTING SAW IS USED AND A SHALLOWER DEPTH OF THE CUT IS DESIRED, CONTACT THE ENGINEER IN ADVANCE FOR APPROVAL.
20. CONSTRUCTION JOINTS IN SLABS ON GROUND MAY BE LOCATED AT ANY CONTROL JOINT LOCATION. CONSTRUCTION JOINTS SHALL HAVE A KEY FORMED AT MID-DEPTH OF THE FIRST CAST SECTION. THE KEY SHALL BE 1 1/2" DEEP AND SHALL BE 1/3 OF THE SLAB THICKNESS HIGH. THE TOP AND BOTTOM OF THE KEY SHALL HAVE 1 VERTICAL TO 3 HORIZONTAL SLOPE.
21. FILL CONTROL AND CONSTRUCTION JOINTS IN TRAFFIC AREAS WITH SEMI-RIGID EPOXY JOINT FILLER WITH A DUROMETER SHORE A-SCALE HARDNESS NUMBER OF APPROXIMATELY 80. FILL CONTROL AND CONSTRUCTION JOINTS IN NON-TRAFFIC AREAS WITH ELASTOMERIC SEALANT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
22. PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.
23. WHERE BRITTLE FLOOR FINISHES ARE TO BE APPLIED TO FLOOR SLABS, COORDINATE CONTROL JOINT LOCATIONS WITH FLOOR FINISH JOINT LOCATIONS AND ARCHITECT.
24. PROVIDE CONTROL CONSTRUCTION JOINTS IN CONCRETE WALLS AT A MAXIMUM SPACING OF TWICE THE HEIGHT OF THE WALL. MAXIMUM JOINT SPACING SHALL NOT EXCEED 24 FT. CONTROL JOINTS SHALL HAVE A 3/4" DEEP BY 1 1/2" WIDE TAPERED REVEAL EACH SIDE OF THE WALL. AT CONTROL JOINTS, EVERY OTHER HORIZONTAL BAR SHALL BE CUT BACK 1-1/2" FROM THE CONTROL JOINT. CONSTRUCTION JOINTS SHALL BE FORMED SIMILAR TO CONTROL JOINTS. AT CONSTRUCTION JOINTS, ALL HORIZONTAL STEEL SHALL BE DISCONTINUOUS AND A DOWEL BAR OF SIZE AND SPACING TO MATCH THE HORIZONTAL REINFORCING SHALL BE EMBEDDED A MINIMUM OF 40 BAR DIAMETERS EACH SIDE OF THE CONSTRUCTION JOINT. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL JOINT TREATMENT.

EXPANSION AND EPOXY ADHESIVE ANCHORS

- EXPANSION ANCHORS:
1. EXPANSION ANCHORS SHALL BE MANUFACTURED BY ITW Ramset/RedHead AND SHALL BE THE TYPE, SIZE, AND EMBEDMENT INDICATED ON DRAWINGS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
EPOXY ADHESIVE ANCHORS:
1. EPOXY ADHESIVE SHALL BE EPOCON "CERAMIC 6+" EPOXY MANUFACTURED BY ITW Ramset / Red Head. OR HIT RE 500 V3 EPOXY ADHESIVE MANUFACTURED BY THE HILTI COMPANY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED; SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
2. THREADED RODS SHALL BE ASTM A36. SIZES AND EMBEDMENT AS INDICATED ON THE DRAWINGS.
3. CONDUCT JOB-SITE TRAINING OF ALL CONTRACTOR'S PERSONNEL INSTALLING THIS PRODUCT FOR SAFE AND PROPER INSTALLATION, HANDLING, AND STORAGE OF THE EPOXY SYSTEM.

MASONRY

- 1. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6/TMS 602)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
2. COMPRESSIVE STRENGTH SHALL BE DETERMINED FOR EACH TYPE OF MASONRY BY THE UNIT STRENGTH METHOD.
A. CONCRETE MASONRY: fm = 1500 PSI AT 28 DAYS.
3. SUBMITTALS SHALL BE MADE FOR THE FOLLOWING:
A. COLD WEATHER CONSTRUCTION PROCEDURE.
B. MANUFACTURER'S LITERATURE FOR: HORIZONTAL JOINT REINFORCING, REINFORCING STEEL POSITIONERS, MOVEMENT JOINT MATERIALS, TIES & ANCHORS.
C. SHOP DRAWINGS SHOWING: DETAILS OF STEEL REINFORCING, AND LINTELS.
D. MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR SPECIFIED MASONRY UNIT, AND REINFORCING STEEL.
E. PROPORTIONS OF MATERIAL IN ACCORDANCE WITH REFERENCED SPECIFICATIONS OF MORTAR AND GROUT.
4. MATERIALS
A. CONCRETE MASONRY UNITS: ASTM C90 TYPE I, BELOW GRADE: NORMAL WEIGHT AGGREGATE PER ASTM C33.
B. CONCRETE MASONRY UNITS: ASTM C90 TYPE I, ABOVE GRADE: LIGHTWEIGHT AGGREGATE PER ASTM C331 OR NORMAL WEIGHT.

- C. FACING BRICK: ASTM C216 GRADE SW. COLOR AND SIZE AS NOTED ON THE ARCHITECTURAL DRAWINGS.
D. MORTAR: ASTM C270 TYPE N
E. PORTLAND CEMENT-LIME MORTAR: PORTLAND CEMENT:TYPE I, HYDRATED LIME:TYPE S
F. MASONRY CEMENT MORTAR: AT CONTRACTOR'S OPTION.
G. GROUT: ASTM C476. fc = 2000 psi, SLUMP 8" TO 10".
H. REINFORCING STEEL: ASTM A615, 60 KSI YIELD.
I. HORIZONTAL JOINT REINFORCING FOR SINGLE WYTHE CONCRETE MASONRY: 3 GAUGE LADDER TYPE, HOT DIPPED GALVANIZED PER ASTM A153 CLASS B. PLACE HORIZONTAL JOINT REINFORCING AT 16" CENTERS VERTICALLY FOR CONCRETE MASONRY. LAP HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.
J. HORIZONTAL JOINT REINFORCING FOR CONCRETE MASONRY AND BRICK VENEER CAVITY WALL: 3 GAUGE LADDER TYPE PLACED IN CONCRETE MASONRY WITH PROJECTING EYES FOR 3/16" DIAMETER DOUBLE WIRE RECTANGULAR ADJUSTABLE PINTLE. HOT DIPPED GALVANIZED PER ASTM A153 CLASS B. THIS TYPE OF JOINT REINFORCING ALLOWS THE VENEER TO BE PLACED AFTER INTERIOR WYTHE IS PLACED. LADDER TYPE TRI-ROD MAY BE USED IF BOTH WYTHES ARE LAID SIMULTANEOUSLY. PLACE HORIZONTAL JOINT REINFORCING AT 16" CENTERS VERTICALLY FOR CONCRETE MASONRY. LAP HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.
K. BRICK VENEER ANCHORS FOR METAL STUD AND WOOD STUD BACKUP: DUR-O-WAL D/A 213 OR WIRE-BOND RJ-71 WITH 3/16" DIAMETER PINTLE. HOT-DIPPED GALVANIZED PER ASTM A153 CLASS B. VERTICAL DISTANCE BETWEEN HORIZONTAL PINTLE WIRE AND CLIP PLATE SHALL NOT EXCEED 3/4 INCH. (FLAT CORRUGATED TIES ARE NOT PERMITTED.) SCREWS SHALL BE MINIMUM #10 SIZE AND SHALL BE CADMIUM-PLATED OR HOT-DIPPED GALVANIZED. (STAINLESS STEEL AND COPPER-COATED SCREWS ARE NOT PERMITTED.) ANCHORS SHALL BE ATTACHED WITH FASTENERS TO THE WOOD OR STEEL FRAMING WALL STUDS. PROVIDE BRICK VENEER ANCHORS WITH MAXIMUM HORIZONTAL SPACING OF 24" AND MAXIMUM VERTICAL SPACING OF 16". BRICK VENEER ANCHORS SHALL BE EMBEDDED 2" MINIMUM INTO BRICK.

- 5. MORTAR ADDITIONS MUST BE ACCURATELY MEASURED PRIOR TO MIXING. ADD CEMENT TO MIX IN FULL BAG QUANTITIES. MEASURE SAND IN BOX WITH VOLUME OF ONE CUBIC FOOT AS OFTEN AS NECESSARY TO MAINTAIN CONSISTENT PROPORTIONS AND AT LEAST ONCE DAILY AND EVERY 4 HOURS OF MIXING.
6. MINIMUM VERTICAL REINFORCEMENT REQUIREMENTS FOR ALL MASONRY WALLS.
A. AS A MINIMUM, ALL MASONRY SHALL BE REINFORCED PER SECTION ACI 530 1.14.2.2.2.1
B. #4 VERTICAL BARS SHALL BE PLACED AT ALL CORNERS, WITHIN 16 INCHES OF EACH WALL OPENINGS, WITHIN 8 INCHES OF EACH WALL MOVEMENT JOINT AND WITHIN 8 INCHES OF THE END OF THE WALL.
C. HORIZONTAL JOINT REINFORCEMENT SHALL BE ENDED AT 16" MAX. WALL OPENINGS SHALL BE REINFORCED TOP AND BOTTOM OF OPENINGS AND SHALL EXTEND NOT LESS THAN 24 INCHES BEYOND PAST THE ROUGH OPENING.
D. SPACING OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 4'-0"

- 7. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SPECIFICATIONS OF FIRE RATED MASONRY.
8. PROVIDE PREFABRICATED "L" AND "T" SHAPED HORIZONTAL JOINT REINFORCING AT WALL INTERSECTIONS. ALTERNATE MESH TIES REINFORCEMENT TO BE SUBMITTED FOR REVIEW CONSIDERATION PRIOR TO CONSTRUCTION.
9. KEEP AIR SPACE BEHIND VENEER FREE OF MORTAR DROPPINGS.
10. RUNNING BOND PATTERN SHALL BE USED FOR ALL MASONRY WORK UNLESS OTHERWISE NOTED.
11. PROVIDE MOVEMENT (CONTROL AND EXPANSION) JOINTS IN WALLS WHERE INDICATED ON ARCHITECTURAL DRAWINGS. BOND BEAMS SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS UNLESS NOTED OTHERWISE:

- A. MOVEMENT JOINTS IN CONCRETE BLOCK: SASH BLOCK UNIT WITH PREFORMED SHEAR KEY. CAULK BOTH FACES. ALTERNATE DETAILS FOR CONTROL JOINTS MAY BE ACCEPTABLE - SUBMIT DETAILS FOR APPROVAL.
B. MOVEMENT JOINTS IN BRICK: 3/8" WIDE CLEAN JOINT FILLED WITH EXPANSION JOINT MATERIAL PER ASTM D1056, CLASS RE 41. CAULK EXTERIOR FACE.
C. PROVIDE BUILDING PAPER BOND BREAK BELOW LINTEL BEARING ADJACENT TO CONTROL JOINTS.
12. UNLESS NOTED OTHERWISE ON PLANS, UNDER LINTELS, BEARING PLATES, BEAMS, ETC.; FILL CELLS WITH GROUT, 3 COURSES MINIMUM BELOW BEARING.
13. ALL REINFORCING STEEL SHALL BE SUPPORTED AND FASTENED TO APPROVED POSITIONERS LOCATED AT 192 BAR DIAMETERS MAXIMUM SPACING AND WITH A MINIMUM OF TWO POSITIONERS PER GROUT POUR (ONE NEAR THE BOTTOM AND ONE NEAR THE TOP) TO PREVENT DISPLACEMENT DURING THE PLACEMENT OF GROUT. ALL REINFORCING BARS MUST BE FULLY GROUTED IN PLACE IN LIFTS NOT TO EXCEED 60 INCHES.
14. BAR LAPS ARE AS FOLLOWS UNLESS OTHERWISE NOTED. MINIMUM BAR LAPS SHALL NOT BE LESS THAN 48" x (BAR DIAMETER).
#4 BAR - 24" MINIMUM LAP
#5 BAR - 30" MINIMUM LAP
A. IN DOUBLE REINFORCED CELLS, STAGGER BAR SPLICES ACCORDINGLY SO THAT LAPS DO NOT OCCUR WITHIN THE SAME SECTION ALONG THE HEIGHT OF THE WALL.
15. GROUT ALL CELLS BELOW GRADE SOLID.

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Table with 4 columns: #, REVISION/SUBMISSION, 80% O/HFA Review, PERMIT, 06/05/2023, 04/14/2023, 01/04/2023, Date

PREPARED FOR: PCA ARCHITECTURE GEIGER HOUSE FOR VETERANS / KLEKAMP FAMILY RESIDENCES 2631 GILBERT AVE CINCINNATI, OH 45206

DRAWING TITLE: GENERAL STRUCTURAL NOTES

ProJ. No.: 22101.48 Design Team: STH / SJ Date: 11/15/2022 Drawing No.

S001

STRUCTURAL STEEL

- ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION.
- FABRICATOR SHALL DESIGN CONNECTIONS AND, WHEN REQUESTED, SUBMIT CALCULATIONS TO AID THE ENGINEER IN REVIEW. UNLESS SPECIFIC END MOMENTS AND REACTIONS ARE INDICATED ON DRAWINGS, DESIGN AND FABRICATE CONNECTIONS TO RESIST SHEAR BASED ON THE MAXIMUM UNIFORM LOAD CAPACITY OF THE MEMBER FOR THE SPAN INCREASED BY 15%, BUT NO MORE THAN THE SHEAR CAPACITY OF THE MEMBER.
- THE CONTRACTOR SHALL SUBMIT AS PART OF THE BIDDING PROCEDURE A UNIT COST FOR MISCELLANEOUS STRUCTURAL STEEL REQUIREMENTS THAT MAY HAVE BEEN OMITTED FROM THE CONSTRUCTION BIDDOCUMENTS. PROVIDE A UNIT COST PER POUND FOR EACH OF THE FOLLOWING HOT ROLLED SECTIONS: WF BEAM, WF COLUMN, HSS, C-CHANNELS, L-LINTELS (GALVANIZED) AND L-LINTELS (PAINTED).
- NO OPENING OR HOLE SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAN THAT WHAT IS INDICATED ON THE DRAWINGS) UNLESS THE LOCATION HAS BEEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- ALL FLOOR OR ROOF BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP.
- FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDED CONNECTIONS ARE INDICATED ON THE STRUCTURAL DRAWINGS.
- WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1).
- MATERIALS:
 - ROLLED SHAPES AND PLATES UNLESS NOTED: ASTM A-36.
 - TUBULAR SHAPES: ASTM A992 DUAL GRADE, Fy = 50 ksi.
 - BOLTS: ASTM A325-N, 3/4" DIAMETER UNLESS NOTED.
 - ANCHOR RODS: ASTM F1554 - GRADE 36 KSI MATERIAL FULLY THREADED RODS HAVING A NUT TACK WELDED IN PLACE ON BOTTOM. MINIMUM EMBEDMENT AS NOTED ON THE DRAWINGS.
 - FIELD WELDS: AWS E70XX, LOW HYDROGEN ELECTRODES.
 - NON-SHRINK NON-METALLIC GROUT: CRD-C-621 AND ASTM C1107 FOR INTERIOR AND EXTERIOR APPLICATIONS.
- PAINT AND PROTECTION:
 - STRUCTURAL STEEL UNLESS NOTED, FABRICATOR'S STANDARD PRIME COAT. TOUCH UP AFTER ERECTION.
 - MEMBERS TO BE ENCASED IN CONCRETE, MEMBERS TO RECEIVE SPRAY-ON FIREPROOFING AND THE TOP FLANGES OF BEAMS TO RECEIVE COMPOSITE SHEAR CONNECTORS SHALL HAVE NO PAINT. COORDINATE ALL FIREPROOFING REQUIREMENT WITH THE PROJECT SPECIFICATIONS AND ARCHITECTURAL DRAWINGS.
 - PROVIDE MINIMUM 3" CONCRETE COVER FOR ALL STEEL BELOW GRADE.
 - LINTELS SUPPORTING EXTERIOR MASONRY WYTHES AND MEMBERS EXPOSED TO WEATHER IN FINISHED STRUCTURES: HOT DIP GALVANIZE PER ASTM A123 AFTER FABRICATION. COATING WEIGHT PER PARAGRAPH 5.1 OF ASTM A123 AND A153. FABRICATE ASSEMBLIES PER ASTM A143, A384, AND A385. TOUCH UP AFTER ERECTION WITH ORGANIC ZINC RICH PAINT COMPLYING WITH DOP-P-21035 OR MIL-P-26915, MULTIPLE COATS TO DRY FILM THICKNESS OF 8 MILS.
- CONTRACTOR SHALL SUBMIT ERECTION AND SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION. ANY DEVIATIONS FROM THE ORIGINAL DESIGN INTENT SHALL BE APPROVED PRIOR TO SUBMITTING ANY SHOP SUBMITTALS. SUCH DRAWINGS WILL BE REJECTED.
- CONTRACTOR SHALL SUBMIT MISCELLANEOUS STEEL SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION. MISCELLANEOUS STEEL SHOP DRAWINGS SHALL INCLUDE STAIRS AND GUARDRAILS. MISCELLANEOUS STEEL SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER WHO IS PROVIDING SERVICES AS A SPECIALTY ENGINEER.

WOOD

- MATERIALS:
 - FRAMING LUMBER:
 - 2 x 8 AND LARGER: NO. 1 GRADE OR BETTER SOUTHERN PINE KILN DRIED.
 - 2 x 4: STUD GRADE OR BETTER SPRUCE PINE FIR KILN DRIED.
 - 2 x 6: NO. 2 GRADE OR BETTER SPRUCE PINE FIR KILN DRIED.
 - ACQ-C (ALT CA-B OR SBX-DOT) PRESSURE TREAT PIECES IN CONTACT WITH FOUNDATION OR EXPOSED TO WEATHER.
 - SHEATHING & SUBFLOORING: 48/24 APA RATED TONGUE & GROOVE SUBFLOOR EXPOSURE 1. 32/16 APA RATED ROOF SHEATHING EXPOSURE 1. 24/16 APA RATED STRUCTURAL WALL SHEATHING EXPOSURE 1. ALL SHEATHING TO BE NAILED WITH 8d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. ROOF AND WALL SHEATHING SHALL BE SPACED A MINIMUM 1/8" AT PANEL EDGES AND ENDS OF SHEETS. USE APPROPRIATE PLYWOOD CLIPS AS RECOMMENDED BY THE APA. ALL PLYWOOD SUBFLOORING SHALL BE GLUED AND NAILED.
 - ADHESIVE FOR PLYWOOD SUBFLOORING: SHALL CONFORM TO PERFORMANCE SPECIFICATION AFG-01 DEVELOPED BY APA.

F_b = 2600 PSI BENDING
 F_v = 285 PSI HORIZONTAL SHEAR
 F_c = 750 PSI COMPRESSION PERPENDICULAR TO GRAIN
 E = 1,900,000 PSI MODULUS OF ELASTICITY

 MULTIPLE LVL BEAMS AND HEADERS SHALL BE FASTENED TOGETHER AS FOLLOWS:
 - LVL (LAMINATED VENEER LUMBER) BEAMS: DISTRIBUTED AS TRUSS JOIST MACMILLAN, MICRO-LAM OR GEORGIA-PACIFIC CORPORATION, G-P LAM INSTALL PER MANUFACTURER'S RECOMMENDATIONS. LVL BEAMS SHALL HAVE MINIMUM DESIGN STRESS VALUES AS FOLLOWS:

F_b = 2600 PSI BENDING
 F_v = 285 PSI HORIZONTAL SHEAR
 F_c = 750 PSI COMPRESSION PERPENDICULAR TO GRAIN
 E = 1,900,000 PSI MODULUS OF ELASTICITY

 MULTIPLE LVL BEAMS AND HEADERS SHALL BE FASTENED TOGETHER AS FOLLOWS:

12" AND SMALLER MEMBERS:

- TWO-PIECE MEMBERS - 2 ROWS OF 16d COMMON NAILS AT 12" O.C.
 - THREE PIECE MEMBERS - 2 ROWS OF 1/2" DIAMETER BOLTS AT 24" O.C. STAGGERED
- INSTALL TYPICAL FLOOR CROSS BRIDGING AT 8'-0" MAXIMUM INTERVALS IN EVERY JOIST SPACE TO AID IN LOAD SHARE DISTRIBUTION AND CONTROL POTENTIAL VIBRATION PROBLEMS.
 - UNLESS NOTED OTHERWISE, CONNECTORS SHALL BE MADE PER TABLE 2304.9.1, "RECOMMENDED FASTENING SCHEDULE", IN REFERENCED BUILDING CODE. STAPLES NOT PERMITTED FOR FASTENING APA RATED SHEATHING AND SUBFLOORING.
 - ALL PLYWOOD SUBFLOORING SHALL BE GLUED AND NAILED
 - ALL CONNECTION HARDWARE SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY AND SHALL BE FASTENED AS SPECIFIED IN THE SIMPSON PRODUCT AND INSTRUCTION MANUAL.
 - FOR WOOD ROOF RAFTERS AND TRUSSES, INSTALL ONE SIMPSON H5 HURRICANE TIE AT EACH MEMBER AT EACH BEARING LOCATION IN ADDITION TO THE TYPICAL NAILING REQUIREMENT IN THE "RECOMMENDED FASTENING SCHEDULE".
 - BRIDGING IN ALL FLOOR AND CEILING JOISTS, INCLUDING MANUFACTURED WOOD I-JOISTS, SHALL BE 1"x3" CROSS BRIDGING (DOUBLE NAILED) AT 8'-0" ON CENTER MAXIMUM.
 - PROVIDE SOLID BLOCKING IN FLOOR CONSTRUCTION UNDER POSTS, MULTIPLE STUDS OR BEAM BEARINGS.
 - DOUBLE JOISTS SHALL BE PROVIDED BELOW ALL INTERIOR PARTITIONS THAT RUN PARALLEL WITH THE JOISTS.

WOOD TRUSSES

- ALL WORK TO CONFORM TO "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES" (TPI) OR "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED PARALLEL CHORD TRUSSES" (PCT) BY TRUSS PLATE INSTITUTE, INC.
- UNLESS NOTED OTHERWISE, ALL TRUSSES SHALL BE DESIGNED FOR THE LOADS AS SHOWN IN THE DESIGN LOAD SECTION OF THESE NOTES.
- ALL WOOD TRUSS TO TRUSS GIRDER CONNECTIONS ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SPECIFIED ON THE TRUSS LAYOUT SHOP SUBMITTAL. PROVIDE HANGER AND ATTACHMENT SCHEDULE AS REQUIRED.
- SHOP DRAWINGS ARE REQUIRED AND SHALL BEAR THE DESIGNER'S ENGINEERING SEAL, SHOW ALL DESIGN AND FABRICATION DATA, TEMPORARY AND PERMANENT BRACING REQUIREMENTS, AND HANDLING AND ERECTION INSTRUCTIONS. SHOP DRAWINGS SHALL CLEARLY SHOW PERMANENT BRACING REQUIREMENTS FOR WEB COMPRESSION MEMBERS. AN ERECTION PLAN LOCATING ALL TRUSSES SHALL BE PROVIDED.
- ALL TRUSSES SHALL BE BRACED DURING ERECTION PER "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91" BY THE TRUSS PLATE INSTITUTE. UNLESS MORE STRICT BRACING IS REQUIRED BY THE TRUSS MANUFACTURER, THIS BRACING SHALL REMAIN AS PERMANENT BRACING. BRACING IN THE PLANE OF THE TOP CHORD MAY BE REMOVED WHEN THE TOP CHORD IS LATERALLY BRACED BY PLYWOOD SHEATHING.
- BOTTOM CHORD OF ALL WOOD TRUSSES SHALL BE DESIGNED AS UNBRACED FOR A LENGTH EQUAL TO THE SPACING BETWEEN BOTTOM CHORD BRACES. BOTTOM CHORD BRACES SHALL BE SUPPLIED BY TRUSS MANUFACTURER.
- WHEN REQUIRED, THE GENERAL CONTRACTOR SHALL SUBMIT COPIES OF STAMPED ERECTION / SHOP DRAWINGS OF THE PRE-FABRICATED WOOD TRUSSES TO THE BUILDING OFFICIAL. COORDINATE WITH PERMIT CONTINGENCIES.

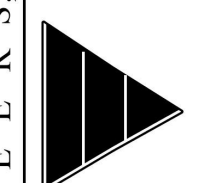
TYPICAL ABBREVIATION LIST

AEF = Alternate Each Face	LG = Long
ARCH = Architect	LL = Live Load
BLDG = Building	LLH = Long Leg Horizontal
BM = Beam	LLV = Long Leg Vertical
B/FTG = Bottom of Footing	LSL = Laminated Strand Lumber
B/DECK = Bottom of Deck	LVL = Laminated Veneer Lumber
BRG = Bearing	MAX = Maximum
CIP = Cast In Place	MECH = Mechanical
CJ = Control Joint	MIN = Minimum
CL = Center Line	ML = Micro Laminated
CLR = Clear	NS = Non Shrink
CMU = Concrete Masonry Unit	NTS = Not to Scale
CONC = Concrete	o.c. = On Center
CONT = Continuous	PAF = Powder Actuated Fastener
DL = Dead Load	PC = Piece
DWG = Drawings	PEMB = Pre-Engineered Metal Building
EJ = Expansion Joint	PL = Plate
EL = Elevation	psf = Pounds Per Square Foot
EMBD = Embedment	RD = Roof Drain
ENGR = Engineer	REINF = Reinforcement
EQ = Equal Distance	RTU = Roof Top Unit
EW = Each Way	SDS = Self Drilling Screw
EF = Each Face	SF = Step Footing
EX = Existing	SW = Step Wall
EXT = Exterior	SB = Solid Bearing
FTG = Footing	SCH = Schedule
FND = Foundation	SIM = Similar
ga = Gauge	STL = Steel
GALV = Galvanized	SRD = Secondary Roof Drain
GC = General Contractor	T/FTG = Top Of Footing
GRAN = Granular	TS = Tube Steel
HORZ = Horizontal	TYP = Typical
HD = Hold Down Anchor	UNO = Unless Noted Otherwise
HSS = Hollow Structural Section	VERT = Vertical
k = Kips	WWF = Welded Wire Fabric
ksf = Kips Per Square Foot	WF = Wide Flange
lbs = Pounds	WP = Work Point

NOT ALL ABBREVIATIONS APPLY. INCLUDED FOR REFERENCE ONLY.

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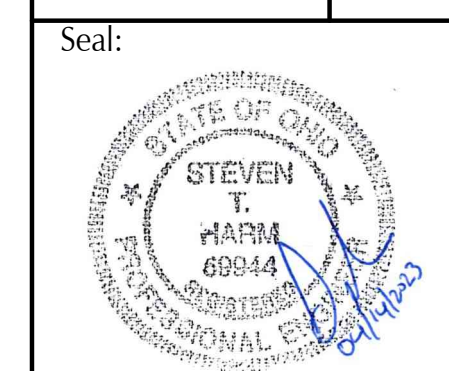
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ENGINEERS, I N C.



PERMIT	04/14/2023	Date
80% OHFA Review	01/04/2023	
#	REVISION/SUBMISSION	

PREPARED FOR: PCA ARCHITECTURE
GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES
2631 GILBERT AVE
CINCINNATI, OH 45206

DRAWING TITLE: GENERAL STRUCTURAL NOTES



Proj. No.: 22101.48

Design Team: STH / SJ

Date: 11/15/2022

Drawing No.

S002

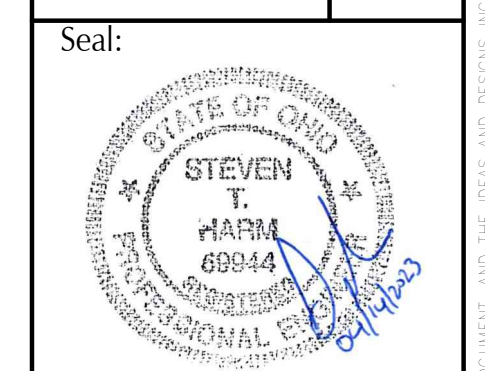
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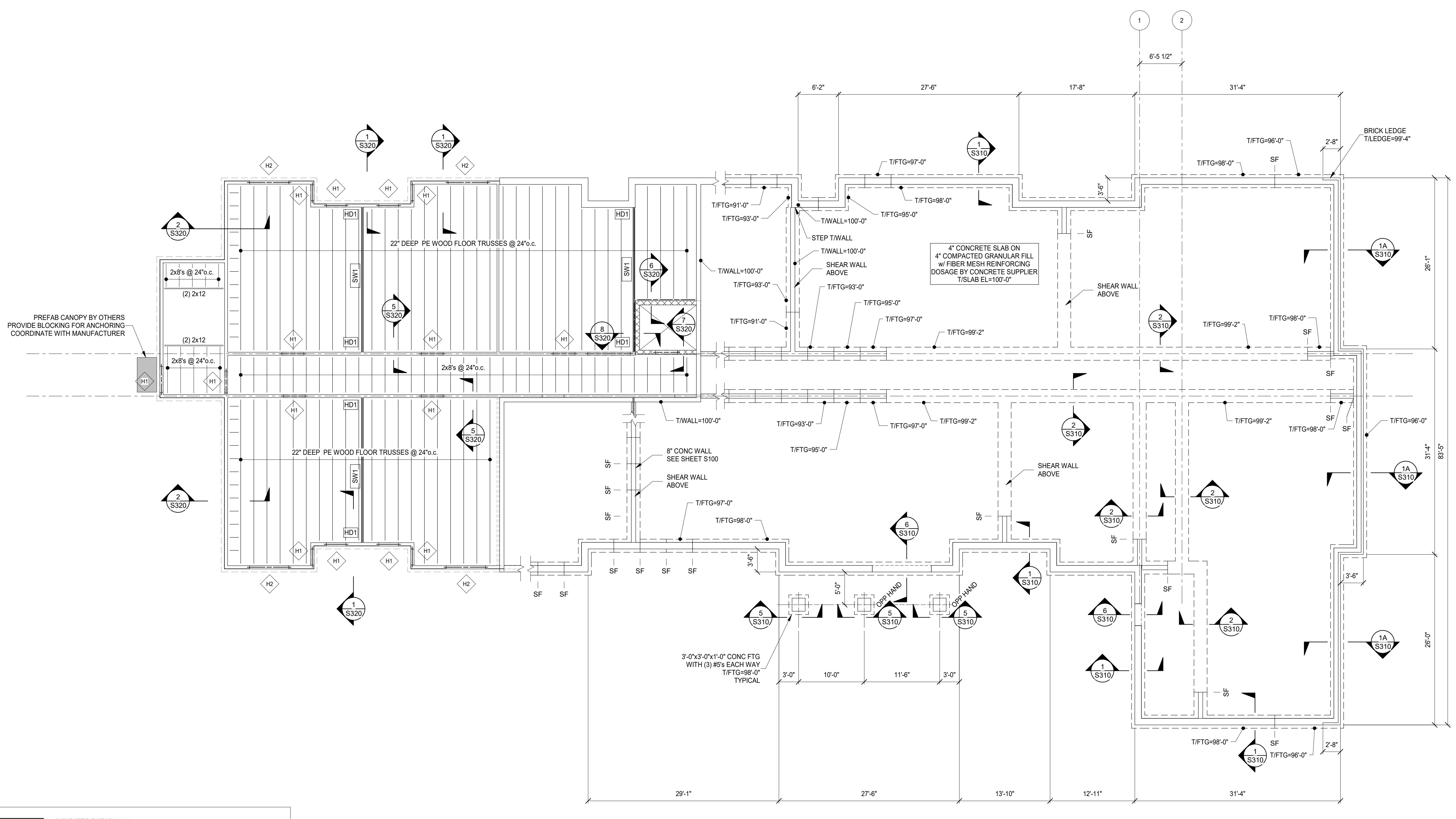
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DRAWING TITLE: FIRST FLOOR FRAMING AND FOUNDATION PLAN



Proj. No.: 22101.48
Design Team: STH / SJ
Date: 11/15/2022
Drawing No.

S110



INDICATES SHEAR WALL

HEADER SCHEDULE		
MARK	HEADER	MAX OPENING
H1	(2) 2x8's w/ (1) BEARING STUD AND (2) FULL HEIGHT STUDS	4'-0"
H2	(2) 2x10's w/ (1) BEARING STUD AND (3) FULL HEIGHT STUDS	6'-6"
H3	(2) 2x12's w/ (1) BEARING STUD AND (3) FULL HEIGHT STUDS	6'-6"

LINTEL SCHEDULE	
LINTEL	MAX SPAN
L4x3 1/2 x 5/16 LLV	UP TO 4'-0"
L6x3 1/2 x 3/8 LLV	UP TO 7'-0"
L7x4x3/8 LLV	UP TO 8'-0"

FIRST FLOOR FOUNDATION AND FRAMING PLAN
SCALE 1/8" = 1'-0"

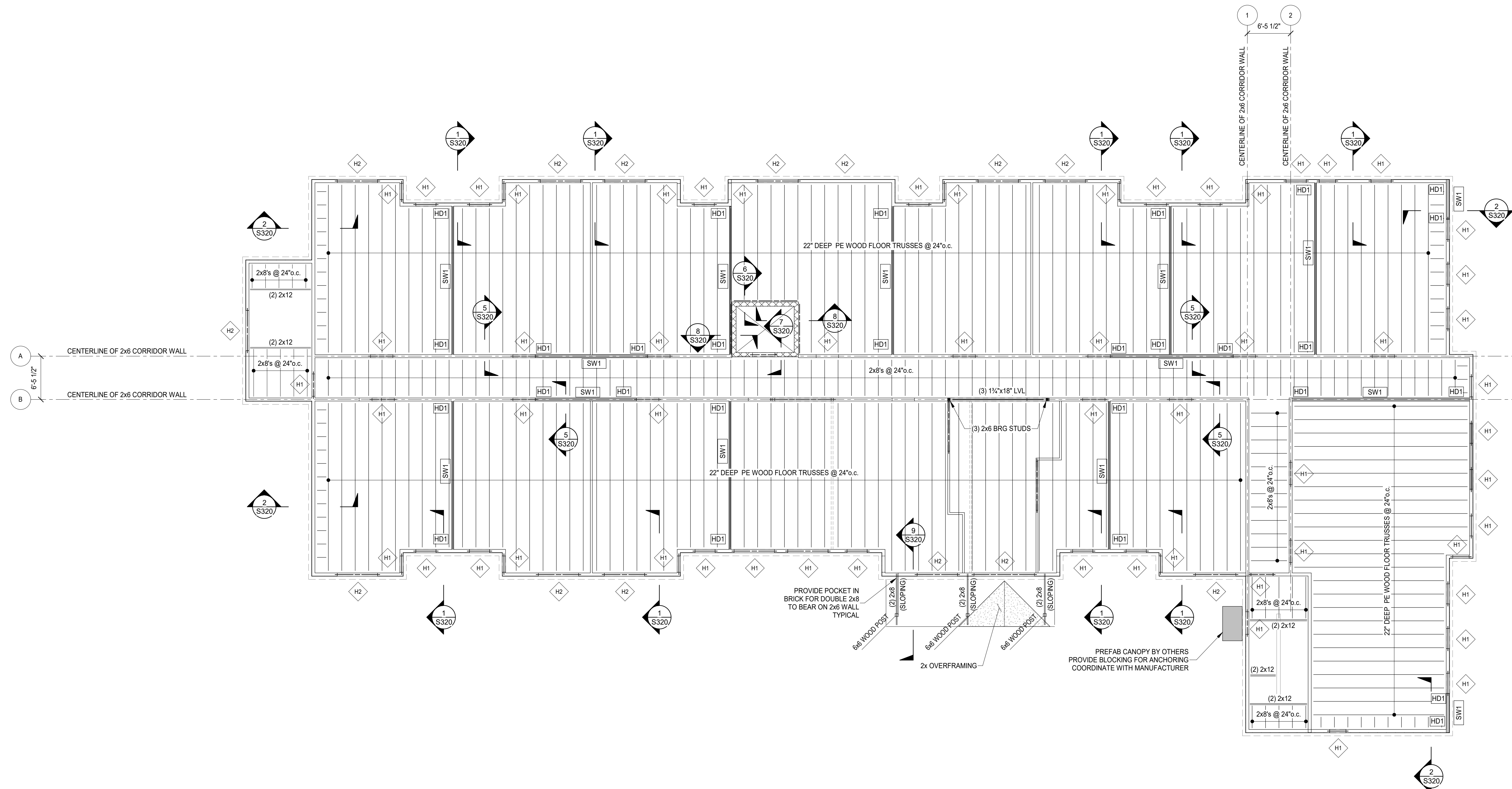
PLAN NOTES:

- COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- CORRIDOR AND EXTERIOR BEARING WALLS TO BE:
1ST FLOOR No. 2 SPF 2x6 @ 16" o.c.
2ND AND 3RD FLOOR No. 2 SPF 2x6 @ 16" o.c. AT EXTERIOR WALL
2x6 @ 16" o.c. STUD GRADE AT CORRIDOR
- WALL SHEATHING SHALL BE 7/16" OR THICKER APA RATED PANELS.
- FLOOR SHEATHING SHALL BE 23/32 APA RATED 48/24 SHEATHING UNBLOCKED FASTENED TO FLOOR FRAMING WITH 8d NAILS AT PANEL EDGES SPACED 6" ON CENTER AND 12" ON CENTER AT INTERMEDIATE SUPPORTS. SHEATHING PANEL AXIS SHALL BE SITUATED SUCH THAT THE LONG EDGE OF THE PANEL IS SPANNING ACROSS THE FLOOR FRAMING IN RUNNING BOND PATTERN.
- ALL CMU SHAFTS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 32" ON CENTER, CENTERED IN FULLY GROUTED CELLS. JAMB CELLS SHALL BE REINFORCED ON EITHER SIDE OF DOOR OPENINGS AND ALL CORNERS OF THE SHAFTS SHALL BE REINFORCED WITH #5 BARS IN EACH OF THE CORNER CELLS AS WELL AS THE ADJACENT CELLS.

WOOD SHEAR WALL SCHEDULE						
MARK	WALL SHEATHING	FASTENER TYPE & SPACING AT WALL PANEL EDGES	FASTENER TYPE & SPACING WITHIN WALL PANEL FIELD	FLOOR SHEATHING CONNECT TO SHEAR WALL TOP PLATE	2x PT SILL PLATE CONNECTION TO FOUNDATION	WIND CAPACITY
SW1	7/16" APA RATED WOOD SHEATHING ONE SIDE	8d NAILS @ 4" o.c.	8d NAILS @ 12" o.c.	8d NAILS @ 6" o.c.	5/8" @ 24" o.c.	490 PLF
SW2	7/16" APA RATED WOOD SHEATHING ONE SIDE	8d NAILS @ 6" o.c.	8d NAILS @ 12" o.c.	8d NAILS @ 6" o.c.	-	335 PLF

- 2x BLOCKING REQUIRED AT ALL SHEAR WALL PANEL JOINTS.
- INTERIOR SHEAR WALLS SHALL BE 5/8" GYPSUM SHEATHING OVER 2x4 STUDS NO MORE THAN 16" ON CENTER.
- ALL EXTERIOR WALLS TO BE SHEATHED WITH MINIMUM 15/32 APA RATED SHEATHING ONE SIDE. 6" NAIL SPACING AT EDGES, 12" MINIMUM CENTER.
- SHEAR WALL TAGS REPRESENT THE WALL CONSTRUCTION BELOW THE FRAMING PLAN IT IS CALLED OUT ON. EXAMPLE: SW# ON SECOND FLOOR FRAMING DENOTES WALL CONSTRUCTION BETWEEN FIRST AND SECOND FLOOR.

HOLDOWN SCHEDULE						
HOLDOWN MARK	HOLDOWN AT EACH FLOOR					
	FIRST FLOOR/FOUNDATION	SECOND FLOOR	THIRD FLOOR	FIRST/FND	SECOND	THIRD
HD1	SIMPSON HDU11-SDS2.5 w/ (30) 1/4"x2 1/2" SDS INTO WOOD POST w/ 1" @ A36 HEAVY HEX THREADED ROD, MIN 12" EMBEDMENT INTO CONC. FTG.	SIMPSON HDU4-SDS2.5 w/ (10) 1/4"x2 1/2" SDS INTO WOOD POST w/ 5/8" @ A36 HEAVY HEX THREADED ROD	SIMPSON HDU2-SDS2.5 w/ (6) 1/4"x2 1/2" SDS INTO WOOD POST w/ 5/8" @ A36 HEAVY HEX THREADED ROD	4	3	2



SECOND FLOOR FRAMING PLAN
SCALE 1/8" = 1'-0"



INDICATES SHEAR WALL

HEADER SCHEDULE

MARK	HEADER	MAX OPENING
H1	(2) 2x8's w/ (1) BEARING STUD AND (2) FULL HEIGHT STUDS	4'-0"
H2	(2) 2x10's w/ (1) BEARING STUD AND (3) FULL HEIGHT STUDS	6'-6"
H3	(2) 2x12's w/ (1) BEARING STUD AND (3) FULL HEIGHT STUDS	6'-6"

LINTEL SCHEDULE

LINTEL	MAX SPAN
L4x3 1/2 x 5/16 LLV	UP TO 4'-0"
L6x3 1/2 x 3/8 LLV	UP TO 7'-0"
L7x4x3/8 LLV	UP TO 8'-0"

PLAN NOTES:

- COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- CORRIDOR AND EXTERIOR BEARING WALLS TO BE:
1ST FLOOR No.2 SPF 2x6 @ 16"o.c.
2ND AND 3RD FLOOR No.2 SPF 2x6 @ 16"o.c. AT EXTERIOR WALL
2x6 @ 16"o.c. STUD GRADE AT CORRIDOR
- WALL SHEATHING SHALL BE 7/16" OR THICKER APA RATED PANELS.
- FLOOR SHEATHING SHALL BE 23/32 APA RATED 48/24 SHEATHING UNBLOCKED FASTENED TO FLOOR FRAMING WITH 8d NAILS AT PANEL EDGES SPACED 6" ON CENTER AND 12" ON CENTER AT INTERMEDIATE SUPPORTS. SHEATHING PANEL AXIS SHALL BE SITUATED SUCH THAT THE LONG EDGE OF THE PANEL IS SPANNING ACROSS THE FLOOR FRAMING IN RUNNING BOND PATTERN.
- ALL CMU SHAFTS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 32" ON CENTER, CENTERED IN FULLY GROUTED CELLS. JAMB CELLS SHALL BE REINFORCED ON EITHER SIDE OF DOOR OPENINGS AND ALL CORNERS OF THE SHAFTS SHALL BE REINFORCED WITH #5 BARS IN EACH OF THE CORNER CELLS AS WELL AS THE ADJACENT CELLS.

WOOD SHEAR WALL SCHEDULE

MARK	WALL SHEATHING	FASTENER TYPE & SPACING AT WALL PANEL EDGES	FASTENER TYPE & SPACING WITHIN WALL PANEL FIELD	FLOOR SHEATHING CONNECT TO SHEAR WALL TOP PLATE	2x PT SILL PLATE CONNECTION TO FOUNDATION	WIND CAPACITY
SW1	7/16" APA RATED WOOD SHEATHING ONE SIDE	8d NAILS @ 4" o.c.	8d NAILS @ 12" o.c.	8d NAILS @ 6" o.c.	5/8" @ 24" o.c.	490 PLF
SW2	7/16" APA RATED WOOD SHEATHING ONE SIDE	8d NAILS @ 6" o.c.	8d NAILS @ 12" o.c.	8d NAILS @ 6" o.c.	-	335 PLF

- 2x BLOCKING REQUIRED AT ALL SHEAR WALL PANEL JOINTS.
- INTERIOR SHEAR WALLS SHALL BE 5/8" GYPSUM SHEATHING OVER 2x4 STUDS NO MORE THAN 16" ON CENTER.
- ALL EXTERIOR WALLS TO BE SHEATHED WITH MINIMUM 15/32 APA RATED SHEATHING ONE SIDE. 6" NAIL SPACING AT EDGES, 12" MINIMUM CENTER.
- SHEAR WALL TAGS REPRESENT THE WALL CONSTRUCTION BELOW THE FRAMING PLAN IT IS CALLED OUT ON. EXAMPLE: SW1 ON SECOND FLOOR FRAMING DENOTES WALL CONSTRUCTION BETWEEN FIRST AND SECOND FLOOR.

HOLDOWN SCHEDULE

HOLDOWN MARK	HOLDOWN AT EACH FLOOR			# OF 2x4 STUDS AT EACH HOLDOWN		
	FIRST FLOOR/FOUNDATION	SECOND FLOOR	THIRD FLOOR	FIRST/FND	SECOND	THIRD
HD1	SIMPSON HDU11-SDS2.5 w/ (30) 1/4"x2 1/2" SDS INTO WOOD POST w/ 1" @ A36 HEAVY HEX THREADED ROD, MIN 12" EMBEDMENT INTO CONC. FTG	SIMPSON HDU4-SDS2.5 w/ (10) 1/4"x2 1/2" SDS INTO WOOD POST w/ 5/8" @ A36 HEAVY HEX THREADED ROD	SIMPSON HDU2-SDS2.5 w/ (6) 1/4"x2 1/2" SDS INTO WOOD POST w/ 5/8" @ A36 HEAVY HEX THREADED ROD	4	3	2

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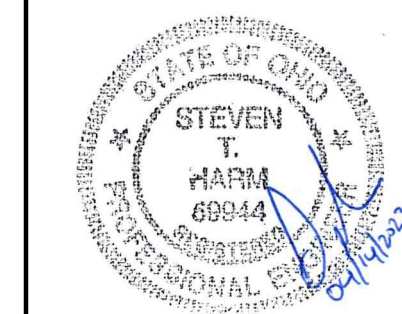


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			01/04/2023

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CINCINNATI, OH 45206

DRAWING TITLE: SECOND FLOOR FRAMING PLAN

Seal:



Proj. No.: 22101.48

Design Team: STH / SJ

Date: 11/15/2022

Drawing No.

S120

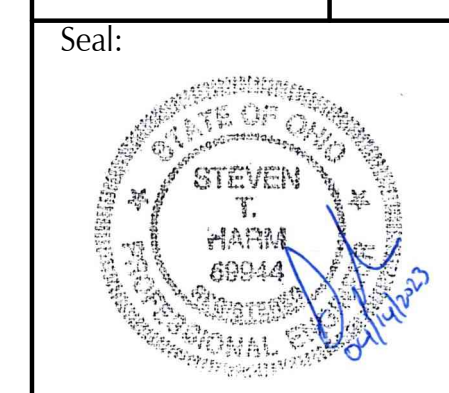
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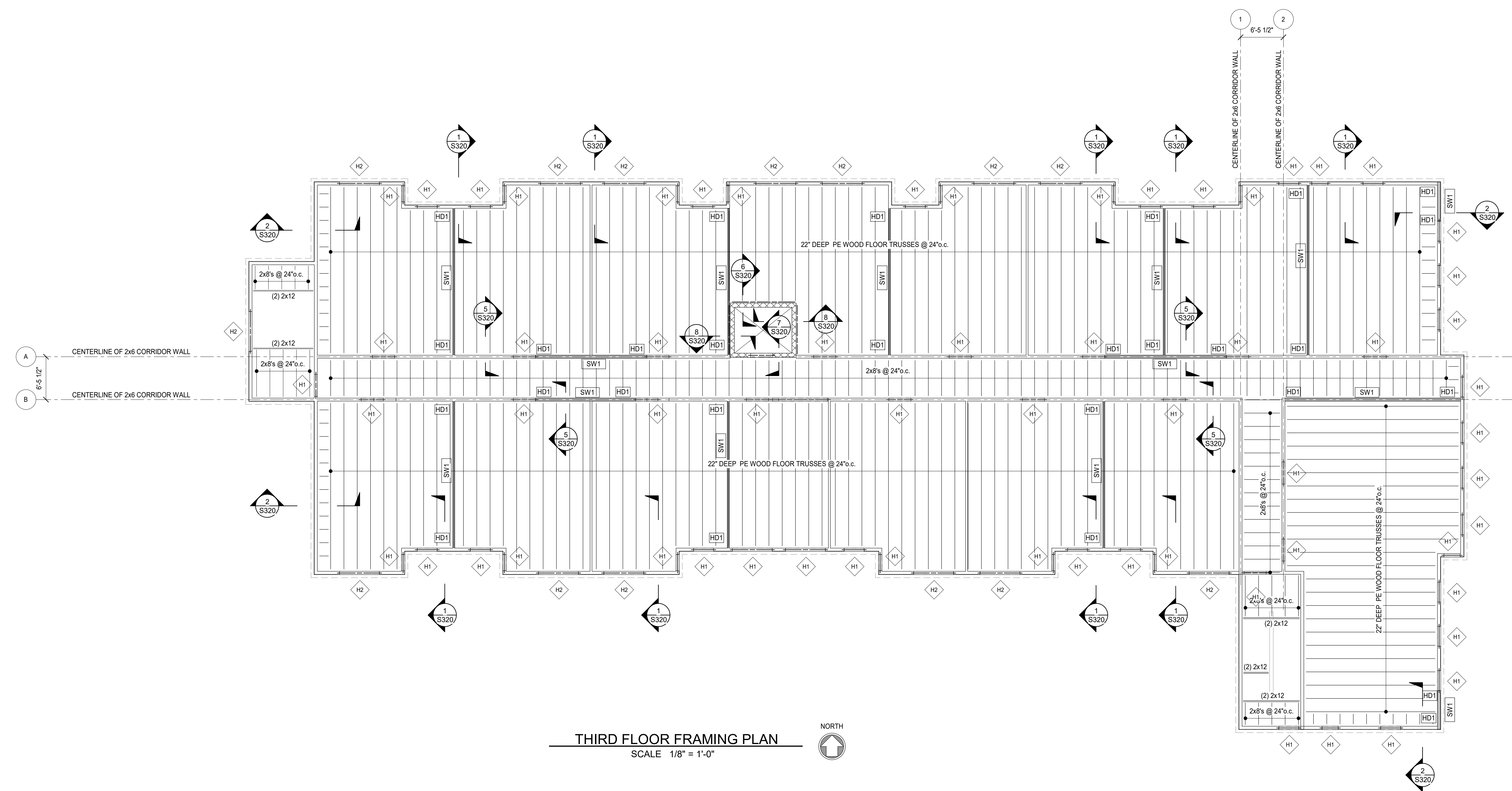
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DRAWING TITLE: THIRD FLOOR FRAMING PLAN



Proj. No.: 22101.48
Design Team: STH / SJ
Date: 11/15/2022
Drawing No.

S130



INDICATES SHEAR WALL

HEADER SCHEDULE		
MARK	HEADER	MAX OPENING
H1	(2) 2x8's w/ (1) BEARING STUD AND (2) FULL HEIGHT STUDS	4'-0"
H2	(2) 2x10's w/ (1) BEARING STUD AND (3) FULL HEIGHT STUDS	6'-6"
H3	(2) 2x12's w/ (1) BEARING STUD AND (3) FULL HEIGHT STUDS	6'-6"

LINTEL SCHEDULE	
LINTEL	MAX SPAN
L4x3 1/2 x 3/8 LLV	UP TO 4'-0"
L6x3 1/2 x 3/8 LLV	UP TO 7'-0"
L7x4 x 3/8 LLV	UP TO 8'-0"

PLAN NOTES:

- COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- CORRIDOR AND EXTERIOR BEARING WALLS TO BE:
1ST FLOOR No.2 SPF 2x6 @ 16"o.c.
2ND AND 3RD FLOOR No.2 SPF 2x6 @ 16"o.c. AT EXTERIOR WALL
2x6 @ 16"o.c. STUD GRADE AT CORRIDOR
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- FLOOR SHEATHING SHALL BE 23/32 APA RATED 48/24 SHEATHING UNBLOCKED FASTENED TO FLOOR FRAMING WITH 8d NAILS AT PANEL EDGES SPACED 6" ON CENTER AND 12" ON CENTER AT INTERMEDIATE SUPPORTS. SHEATHING PANEL AXIS SHALL BE SITUATED SUCH THAT THE LONG EDGE OF THE PANEL IS SPANNING ACROSS THE FLOOR FRAMING IN RUNNING BOND PATTERN.
- ALL CMU SHAFTS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 32" ON CENTER, CENTERED IN FULLY GROUTED CELLS. JAMB CELLS SHALL BE REINFORCED ON EITHER SIDE OF DOOR OPENINGS AND ALL CORNERS OF THE SHAFTS SHALL BE REINFORCED WITH #5 BARS IN EACH OF THE CORNER CELLS AS WELL AS THE ADJACENT CELLS.

WOOD SHEAR WALL SCHEDULE						
MARK	WALL SHEATHING	FASTENER TYPE & SPACING AT WALL PANEL EDGES	FASTENER TYPE & SPACING WITHIN WALL PANEL FIELD	FLOOR SHEATHING CONNECT TO SHEAR WALL TOP PLATE	2x PT SILL PLATE CONNECTION TO FOUNDATION	WIND CAPACITY
SW1	7/16" APA RATED WOOD SHEATHING ONE SIDE	8d NAILS @ 4" o.c.	8d NAILS @ 12" o.c.	8d NAILS @ 6" o.c.	5/8"Ø @ 24" o.c.	490 PLF
SW2	7/16" APA RATED WOOD SHEATHING ONE SIDE	8d NAILS @ 6" o.c.	8d NAILS @ 12" o.c.	8d NAILS @ 6" o.c.	-	335 PLF

- 2x BLOCKING REQUIRED AT ALL SHEAR WALL PANEL JOINTS.
- INTERIOR SHEAR WALLS SHALL BE 5/8" GYPSUM SHEATHING OVER 2x4 STUDS NO MORE THAN 16" ON CENTER.
- ALL EXTERIOR WALLS TO BE SHEATHED WITH MINIMUM 15/32 APA RATED SHEATHING ONE SIDE. 6" NAIL SPACING AT EDGES, 12" MINIMUM CENTER.
- SHEAR WALL TAGS REPRESENT THE WALL CONSTRUCTION BELOW THE FRAMING PLAN IT IS CALLED OUT ON. EXAMPLE: SW# ON SECOND FLOOR FRAMING DENOTES WALL CONSTRUCTION BETWEEN FIRST AND SECOND FLOOR.

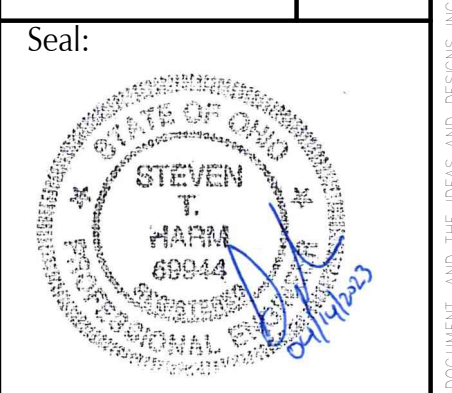
HOLDOWN SCHEDULE									
HOLDOWN MARK	HOLDOWN AT EACH FLOOR						# OF 2x4 STUDS AT EACH HOLDOWN		
	FIRST FLOOR/FOUNDATION		SECOND FLOOR		THIRD FLOOR		FIRST/FND	SECOND	THIRD
HD1	SIMPSON HDU11-SDS2.5 w/ (30) 1/4"x2 1/2" SDS INTO WOOD POST w/ 1" Ø A36 HEAVY HEX THREADED ROD, MIN 12" EMBEDMENT INTO CONC. FTG		SIMPSON HDU4-SDS2.5 w/ (10) 1/4"x2 1/2" SDS INTO WOOD POST w/ 5/8" Ø A36 HEAVY HEX THREADED ROD		SIMPSON HDU2-SDS2.5 w/ (6) 1/4"x2 1/2" SDS INTO WOOD POST w/ 5/8" Ø A36 HEAVY HEX THREADED ROD		4	3	2

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ENGINEERS, I.N.C.

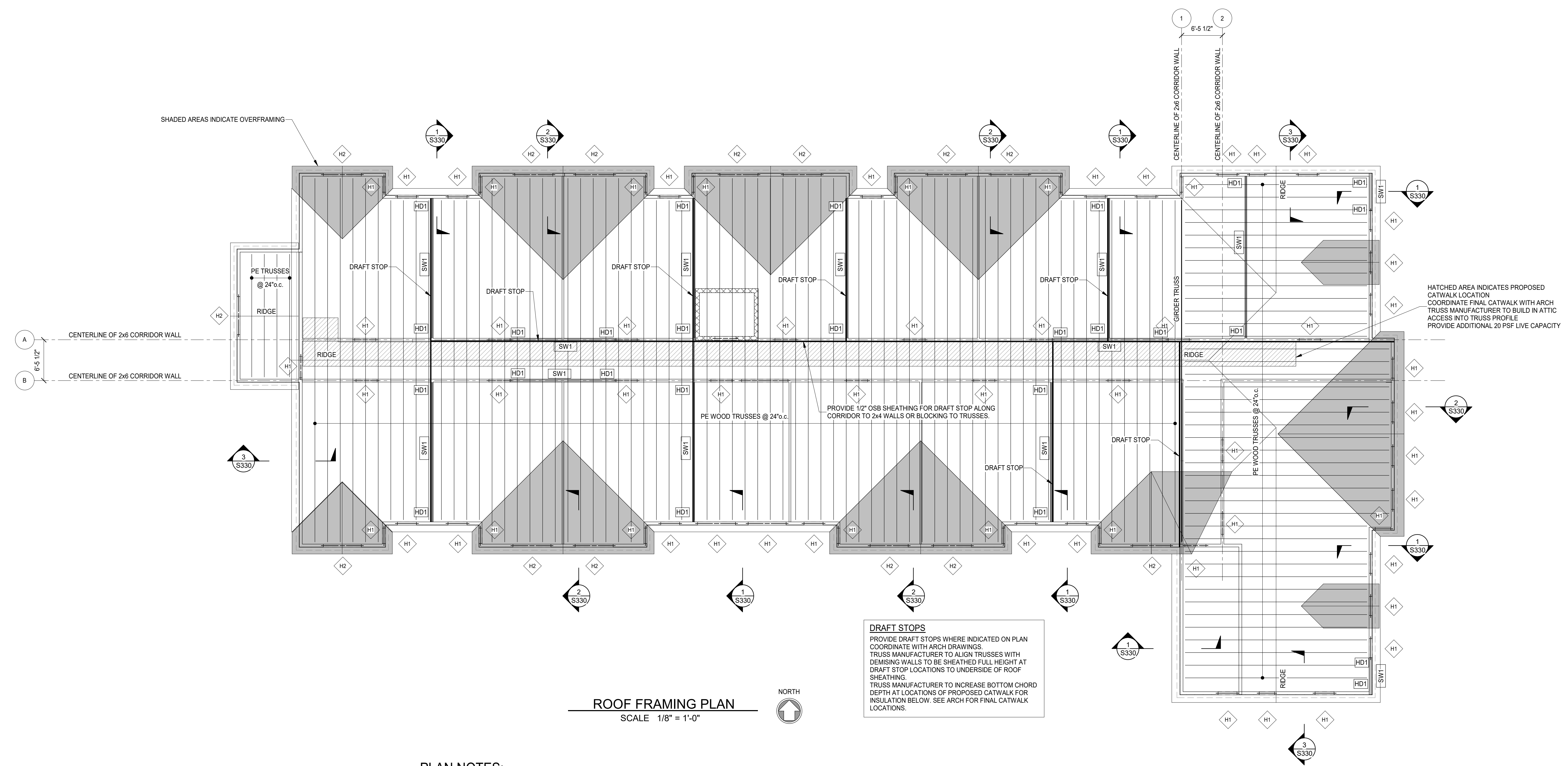
PERMIT #	04/14/2023	Date
80% OHFA Review	01/04/2023	
#	REVISION/SUBMISSION	

PREPARED FOR: PCA ARCHITECTURE
**GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES**
2631 GILBERT AVE
CINCINNATI, OH 45206



Proj. No.: 22101.48
Design Team: STH / SJ
Date: 11/15/2022
Drawing No.

S140



DRAFT STOPS
PROVIDE DRAFT STOPS WHERE INDICATED ON PLAN COORDINATE WITH ARCH DRAWINGS. TRUSS MANUFACTURER TO ALIGN TRUSSES WITH DEMISING WALLS TO BE SHEATHED FULL HEIGHT AT DRAFT STOP LOCATIONS TO UNDERSIDE OF ROOF SHEATHING. TRUSS MANUFACTURER TO INCREASE BOTTOM CHORD DEPTH AT LOCATIONS OF PROPOSED CATWALK FOR INSULATION BELOW. SEE ARCH FOR FINAL CATWALK LOCATIONS.

ROOF FRAMING PLAN
SCALE 1/8" = 1'-0" NORTH

PLAN NOTES:

- COORDINATE ALL DIMENSIONS, DOOR AND WINDOW LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- CORRIDOR AND EXTERIOR BEARING WALLS TO BE:
1ST FLOOR No.2 SPF 2x6 @ 16"o.c.
2ND AND 3RD FLOOR No.2 SPF 2x6 @ 16"o.c. AT EXTERIOR WALL
2x6 @ 16"o.c. STUD GRADE AT CORRIDOR
- WALL SHEATHING SHALL BE 7/16" OR THICKER APA RATED PANELS.
- FLOOR SHEATHING SHALL BE 23/32 APA RATED 48/24 SHEATHING UNBLOCKED FASTENED TO FLOOR FRAMING WITH 8d NAILS AT PANEL EDGES SPACED 6" ON CENTER AND 12" ON CENTER AT INTERMEDIATE SUPPORTS. SHEATHING PANEL AXIS SHALL BE SITUATED SUCH THAT THE LONG EDGE OF THE PANEL IS SPANNING ACROSS THE FLOOR FRAMING IN RUNNING BOND PATTERN.
- ALL CMU SHAFTS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 32" ON CENTER, CENTERED IN FULLY GROUTED CELLS. JAMB CELLS SHALL BE REINFORCED ON EITHER SIDE OF DOOR OPENINGS AND ALL CORNERS OF THE SHAFTS SHALL BE REINFORCED WITH #5 BARS IN EACH OF THE CORNER CELLS AS WELL AS THE ADJACENT CELLS.

INDICATES SHEAR WALL

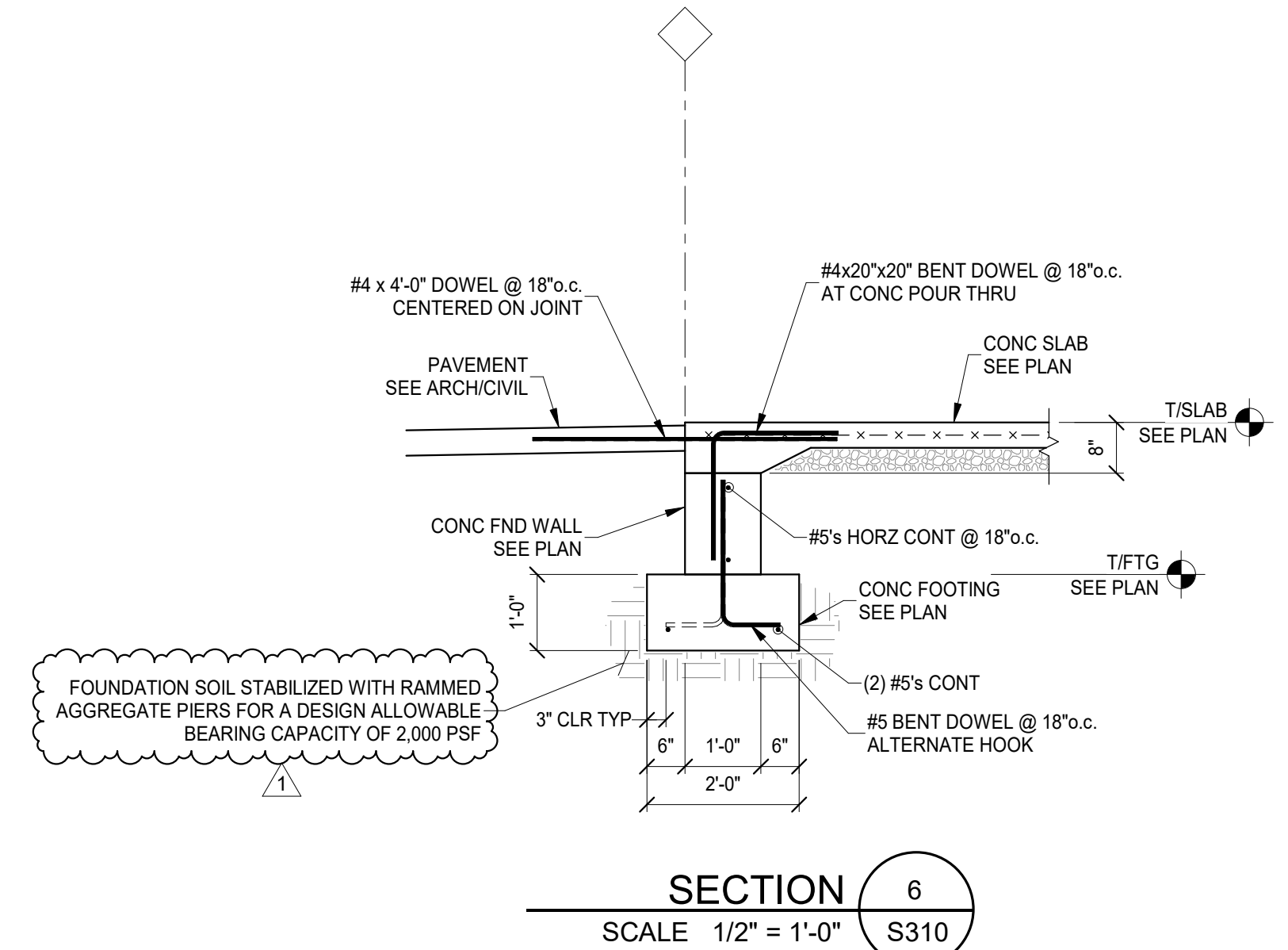
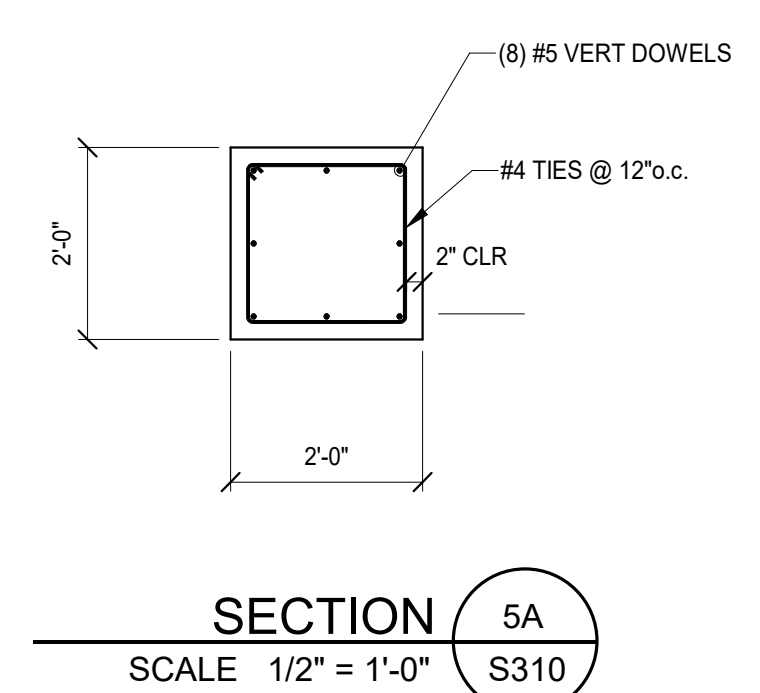
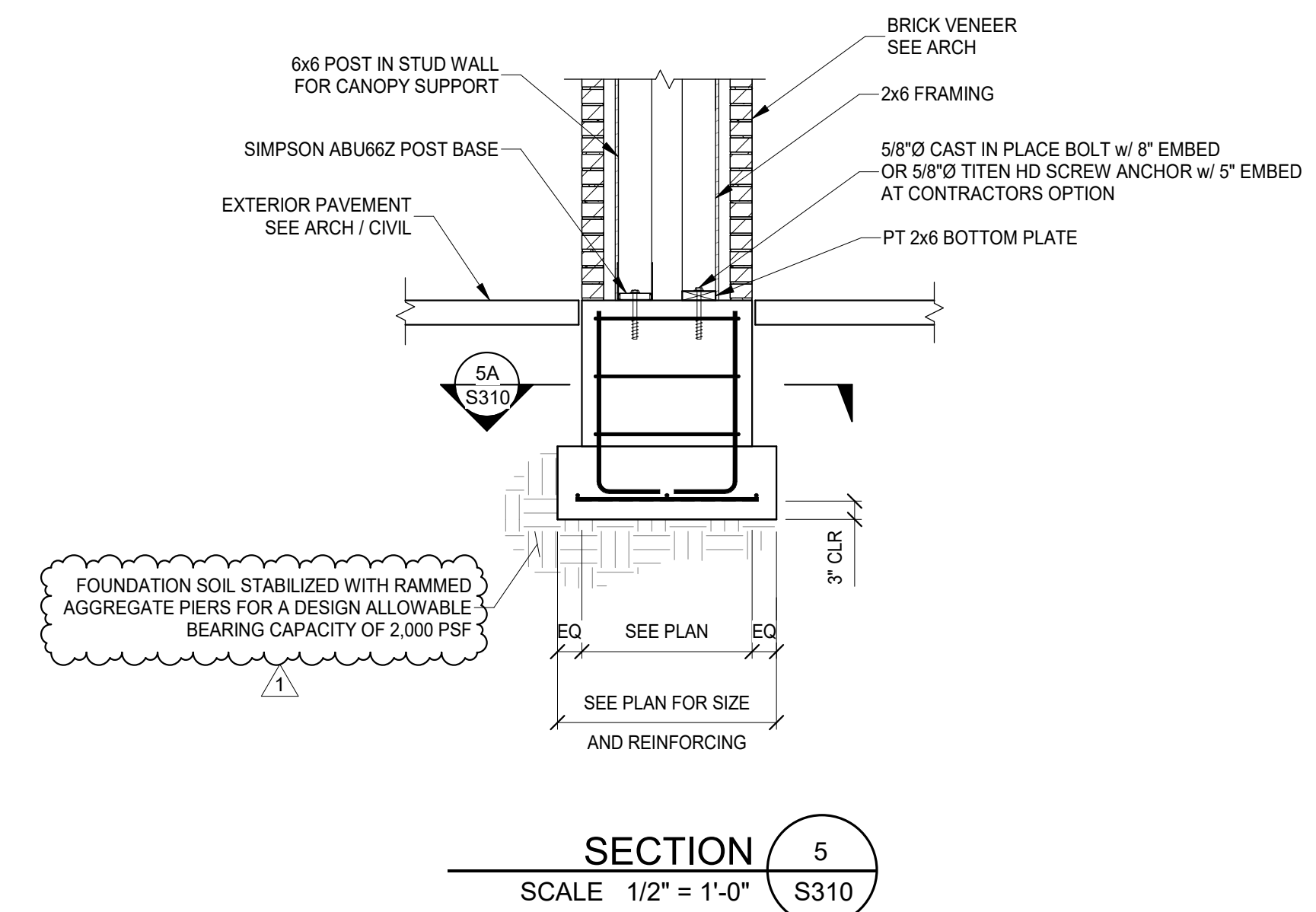
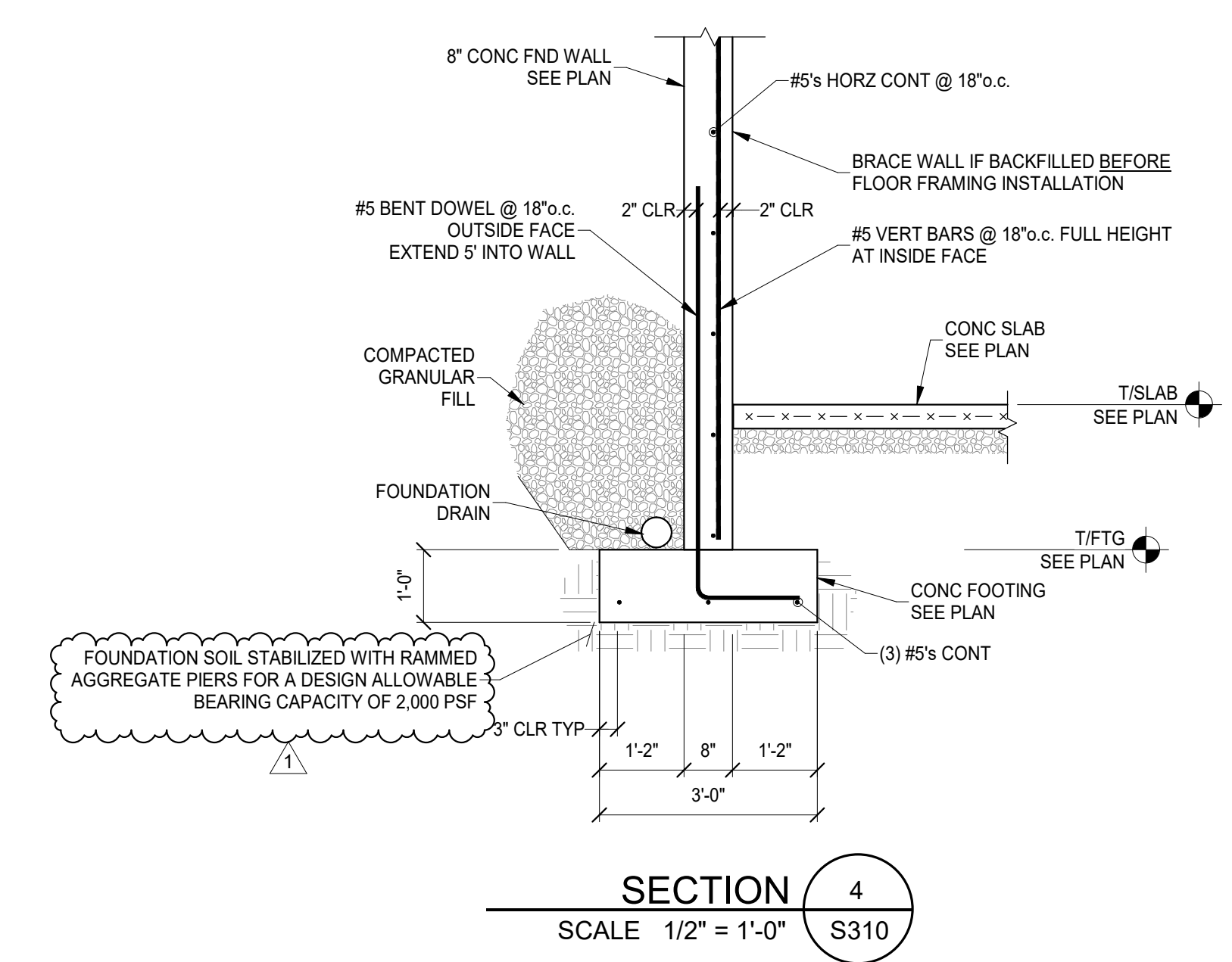
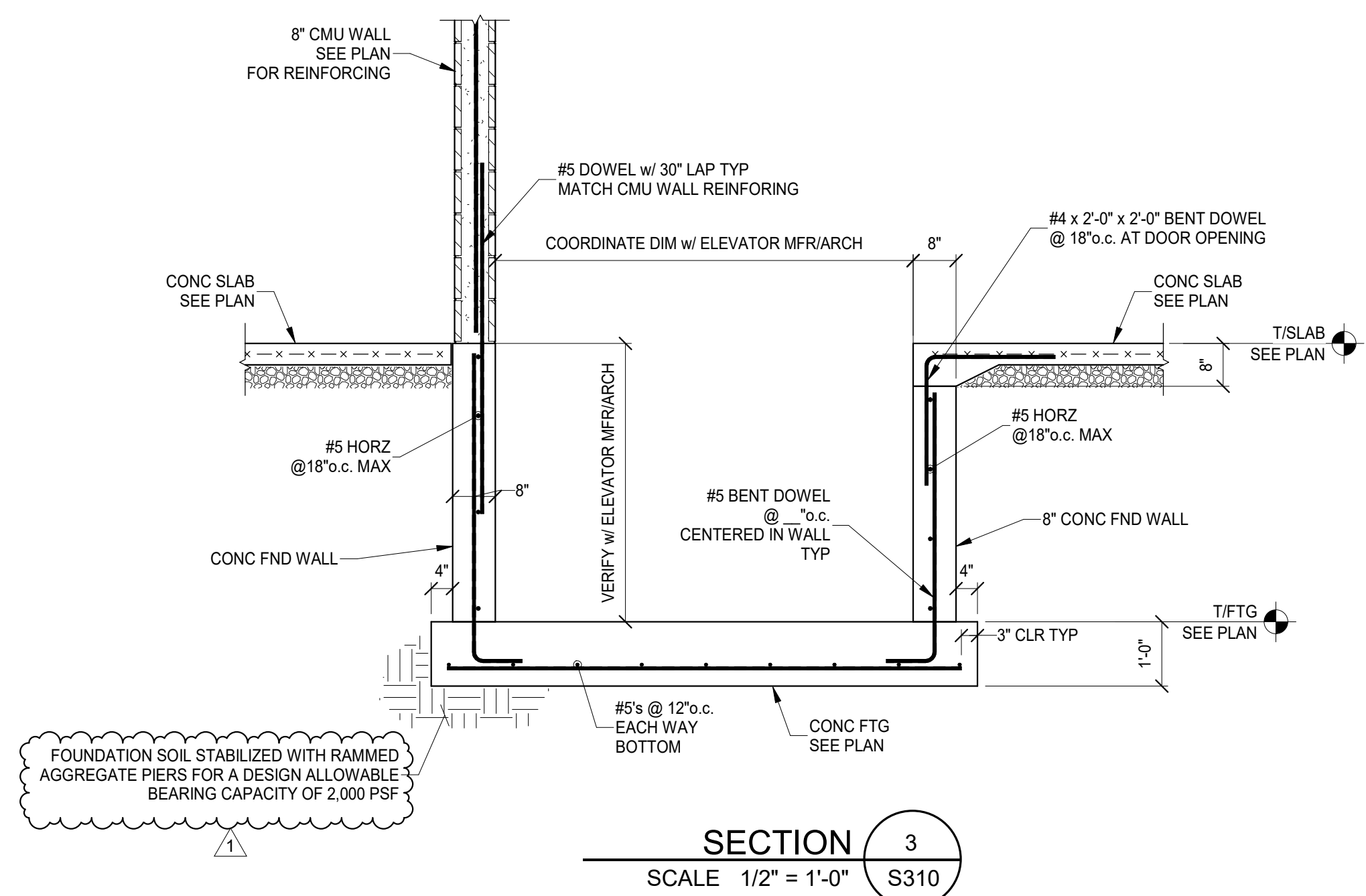
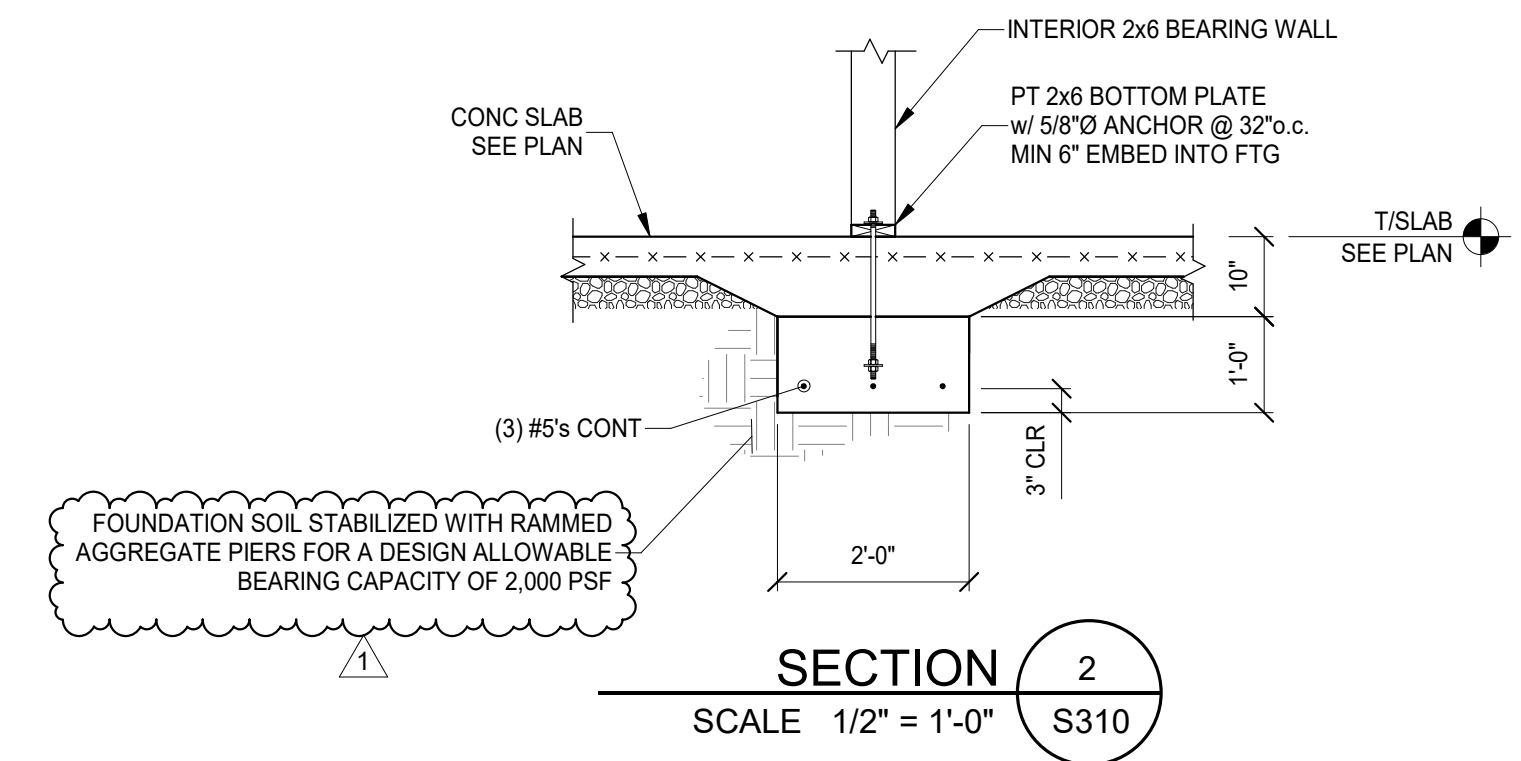
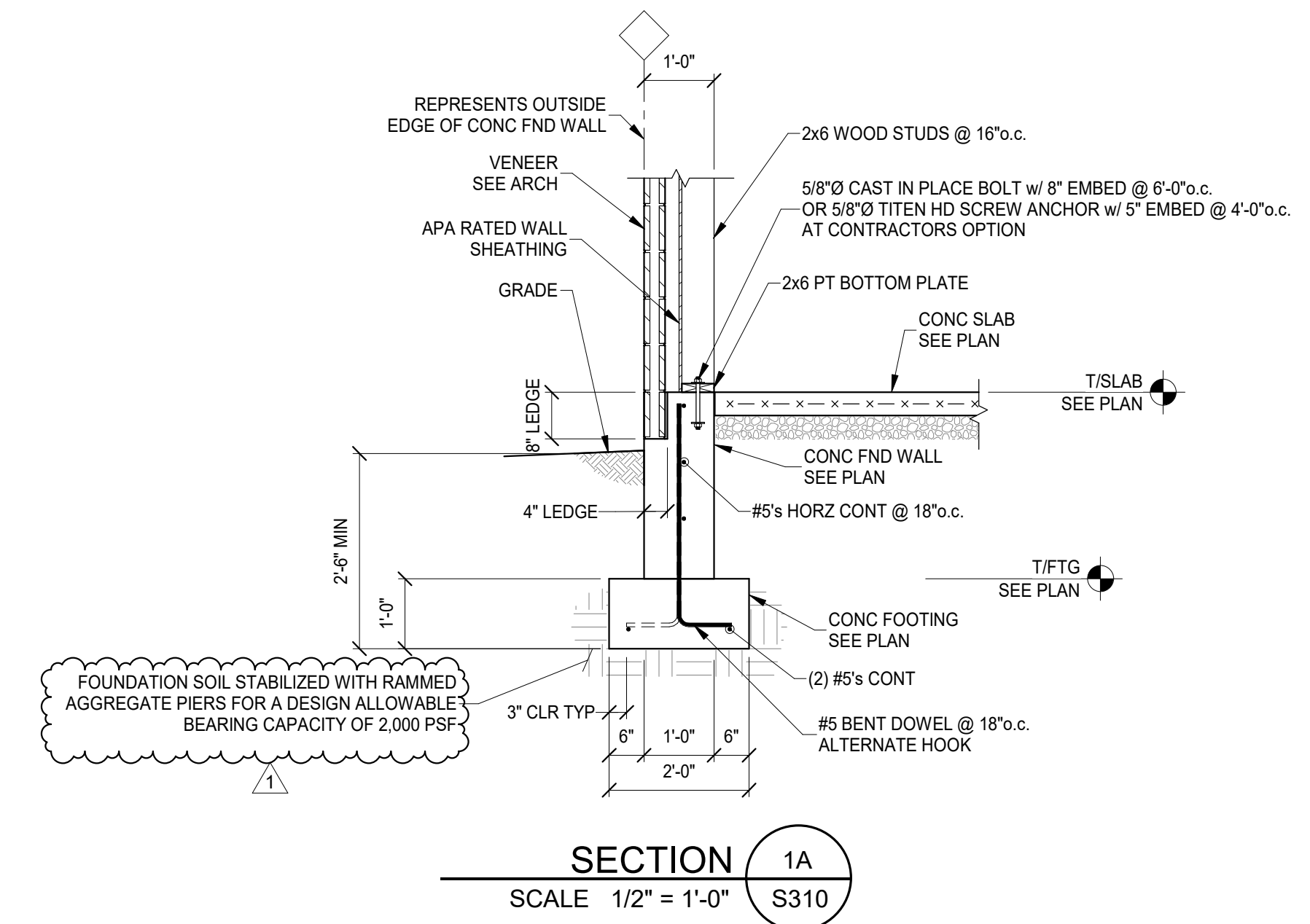
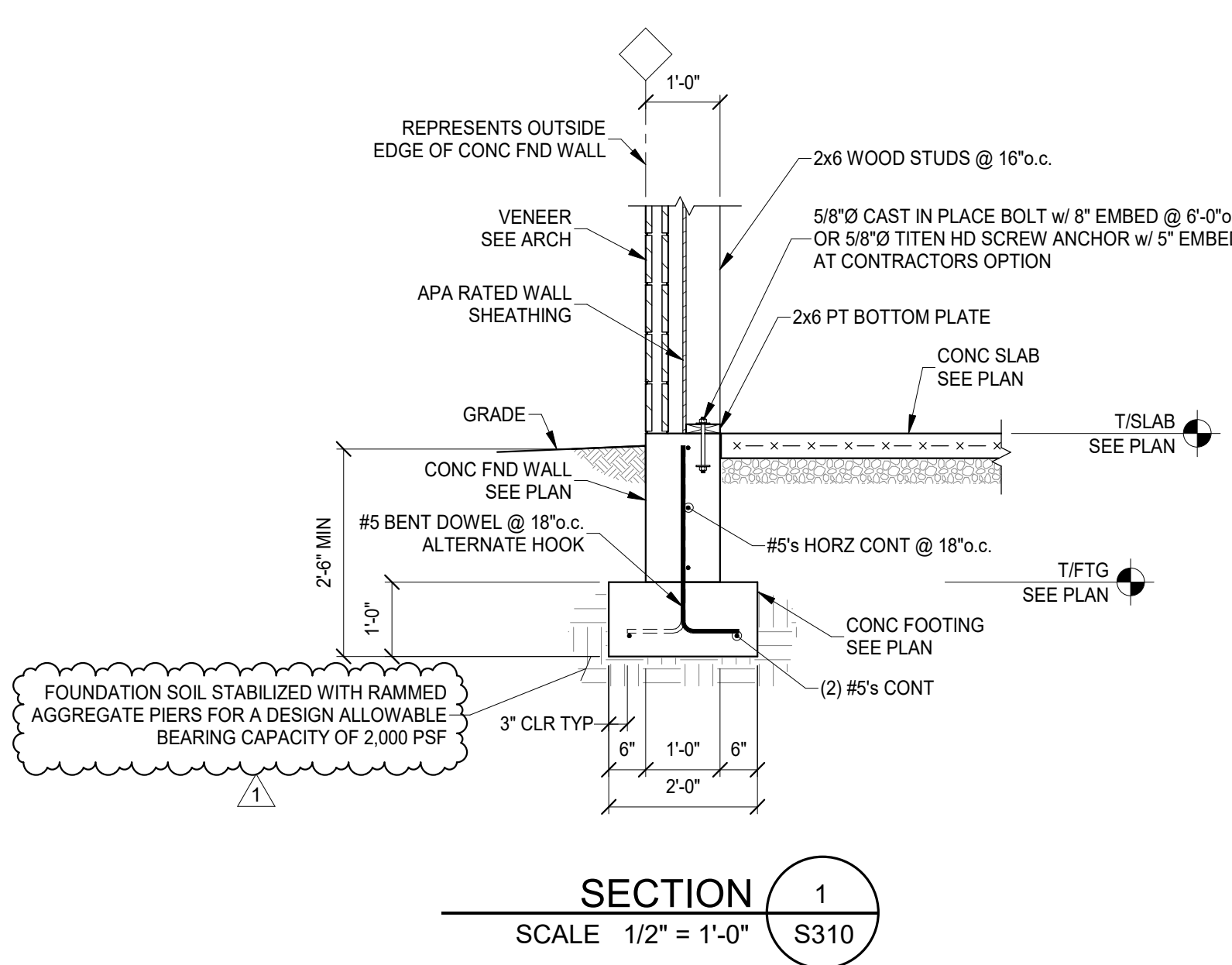
HEADER SCHEDULE		
MARK	HEADER	MAX OPENING
H1	(2) 2x8's w/ (1) BEARING STUD AND (2) FULL HEIGHT STUDS	4'-0"
H2	(2) 2x10's w/ (1) BEARING STUD AND (3) FULL HEIGHT STUDS	6'-6"
H3	(2) 2x12's w/ (1) BEARING STUD AND (3) FULL HEIGHT STUDS	6'-6"

LINTEL SCHEDULE	
LINTEL	MAX SPAN
L4x3 1/2 x 3/8 LLV	UP TO 4'-0"
L6x3 1/2 x 3/8 LLV	UP TO 7'-0"
L7x4x3/8 LLV	UP TO 8'-0"

WOOD SHEAR WALL SCHEDULE						
MARK	WALL SHEATHING	FASTENER TYPE & SPACING AT WALL PANEL EDGES	FASTENER TYPE & SPACING WITHIN WALL PANEL FIELD	FLOOR SHEATHING CONNECT TO SHEAR WALL TOP PLATE	2x PT SILL PLATE CONNECTION TO FOUNDATION	WIND CAPACITY
SW1	7/16" APA RATED WOOD SHEATHING ONE SIDE	8d NAILS @ 4" o.c.	8d NAILS @ 12" o.c.	8d NAILS @ 6" o.c.	5/8" @ 24" o.c.	490 PLF
SW2	7/16" APA RATED WOOD SHEATHING ONE SIDE	8d NAILS @ 6" o.c.	8d NAILS @ 12" o.c.	8d NAILS @ 6" o.c.	-	335 PLF

- 2x BLOCKING REQUIRED AT ALL SHEAR WALL PANEL JOINTS.
- INTERIOR SHEAR WALLS SHALL BE 5/8" GYPSUM SHEATHING OVER 2x4 STUDS NO MORE THAN 16" ON CENTER.
- ALL EXTERIOR WALLS TO BE SHEATHED WITH MINIMUM 15/32 APA RATED SHEATHING ONE SIDE. 6" NAIL SPACING AT EDGES, 12" MINIMUM CENTER.
- SHEAR WALL TAGS REPRESENT THE WALL CONSTRUCTION BELOW THE FRAMING PLAN IT IS CALLED OUT ON. EXAMPLE: SW# ON SECOND FLOOR FRAMING DENOTES WALL CONSTRUCTION BETWEEN FIRST AND SECOND FLOOR.

HOLDOWN SCHEDULE							
HOLDOWN MARK	HOLDOWN AT EACH FLOOR						# OF 2x4 STUDS AT EACH HOLDOWN
	FIRST FLOOR/FOUNDATION	SECOND FLOOR	THIRD FLOOR	FIRST/FND	SECOND	THIRD	
HD1	SIMPSON HDU1-SDS2.5 w/ (30) 1/4"x2 1/2" SDS INTO WOOD POST w/ 1" @ A36 HEAVY HEX THREADED ROD, MIN 12" EMBEDMENT INTO CONC. FTG	SIMPSON HDU4-SDS2.5 w/ (10) 1/4"x2 1/2" SDS INTO WOOD POST w/ 5/8" @ A36 HEAVY HEX THREADED ROD	SIMPSON HDU2-SDS2.5 w/ (6) 1/4"x2 1/2" SDS INTO WOOD POST w/ 5/8" @ A36 HEAVY HEX THREADED ROD	4	3	2	



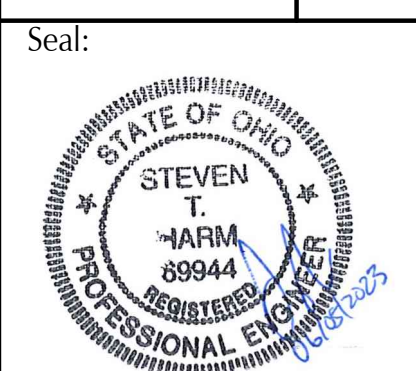
1527 Madison Road
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Ph: (513) 396-8900

Structural Consultants
ADVANTAGE GROUP
ENGINEERS, I N C.

#	REVISION/SUBMISSION	Date
1	PERMIT REVISION	06/05/2023
	PERMIT	04/14/2023
	80% OHFA Review	01/04/2023

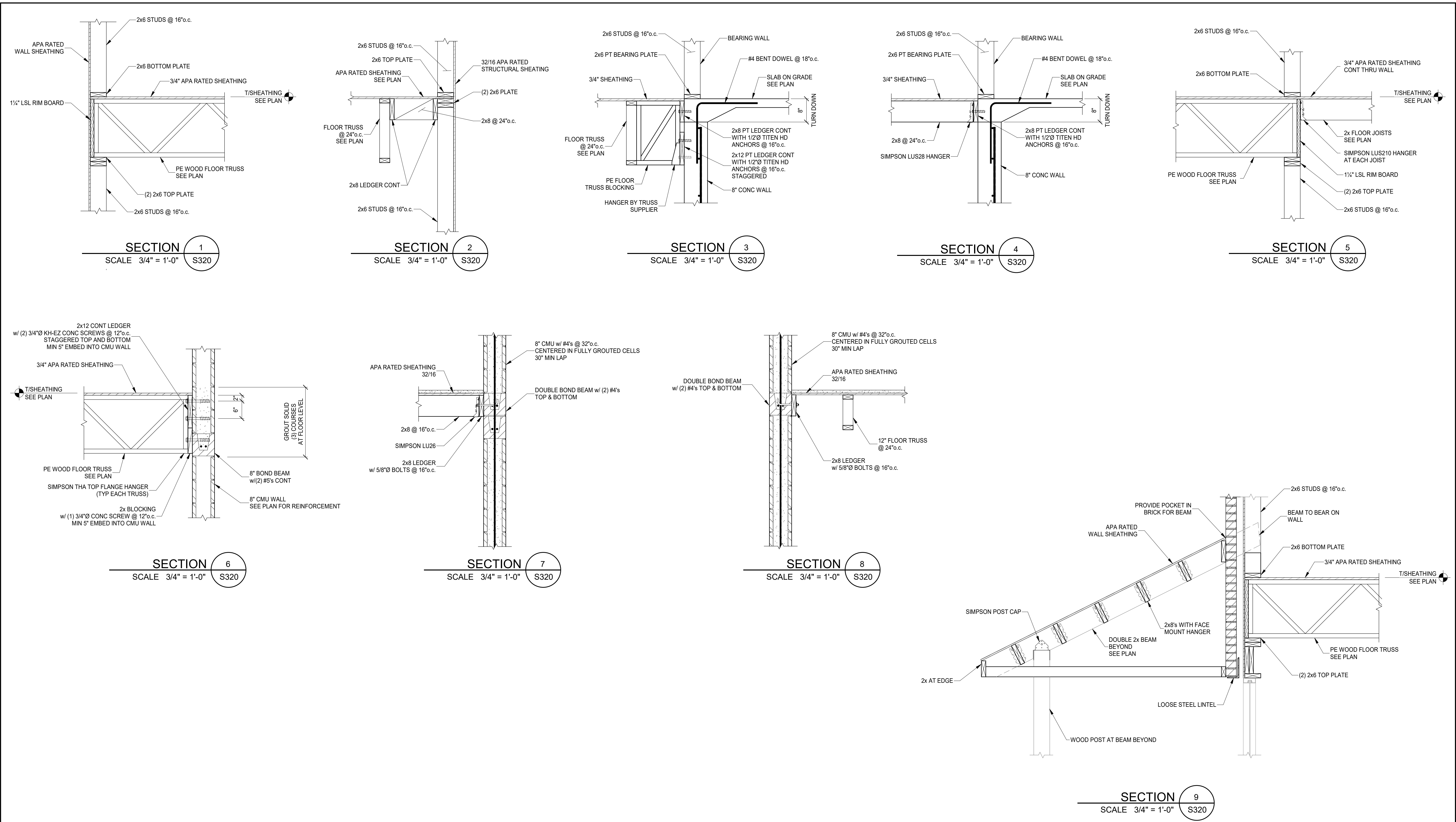
PREPARED FOR: PCA ARCHITECTURE
**GEIGER HOUSE FOR VETERANS /
KLEKAMP FAMILY RESIDENCES**
2631 GILBERT AVE
CINCINNATI, OH 45206

DRAWING TITLE: FOUNDATION SECTIONS



Proj. No.: 22101.48
Design Team: STH / SJ
Date: 11/15/2022
Drawing No.

S310



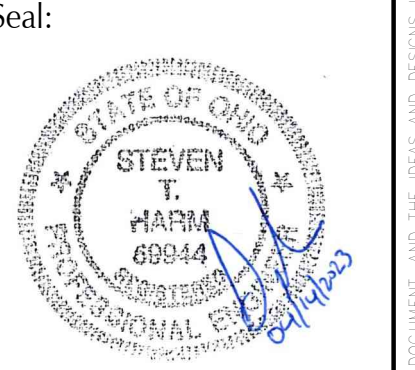
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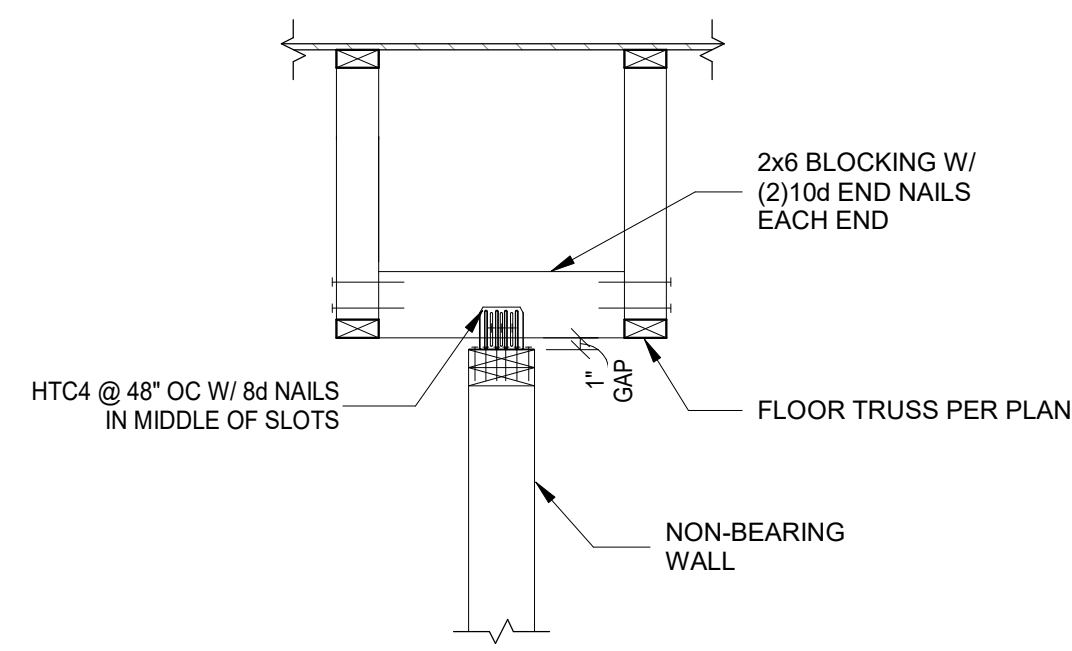
PREPARED FOR: PCA ARCHITECTURE
**GEIGER HOUSE FOR VETERANS /
 KLEKAMP FAMILY RESIDENCES**
 2631 GILBERT AVE
 CINCINNATI, OH 45206

DRAWING TITLE: FRAMING SECTIONS

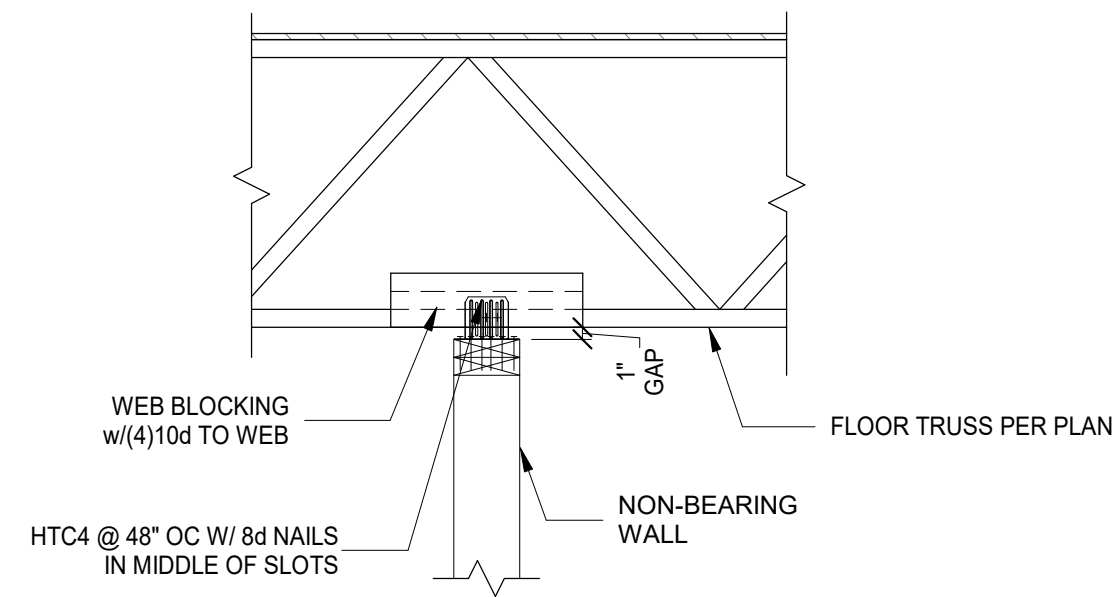


Proj. No.: 22101.48
 Design Team: STH / SJ
 Date: 11/15/2022
 Drawing No.

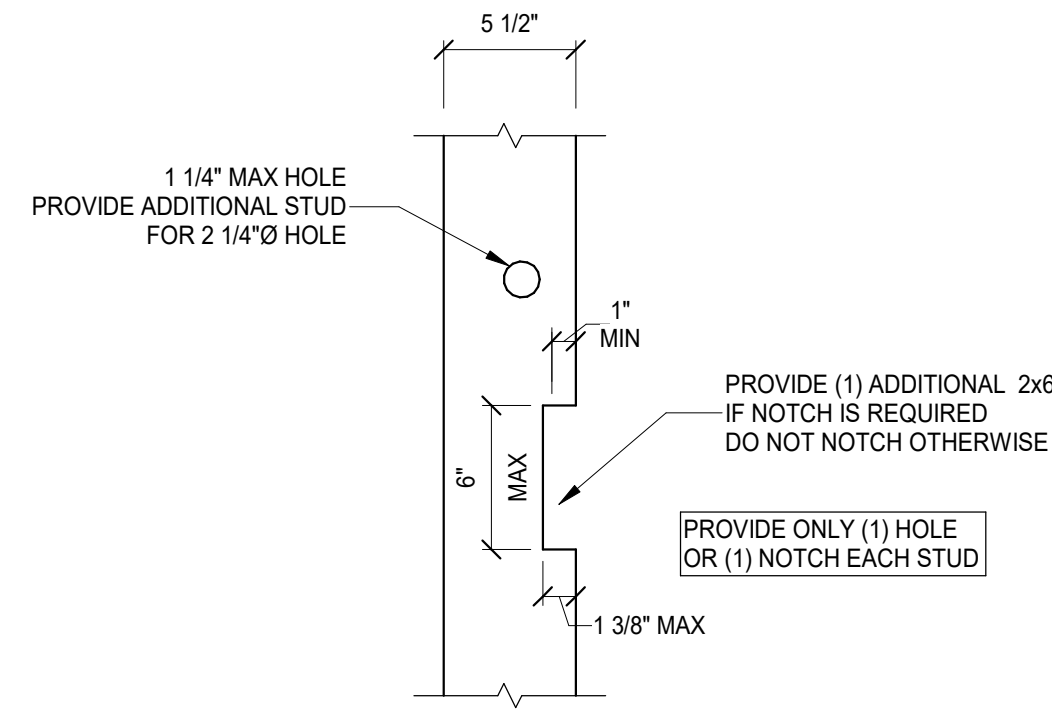
S320



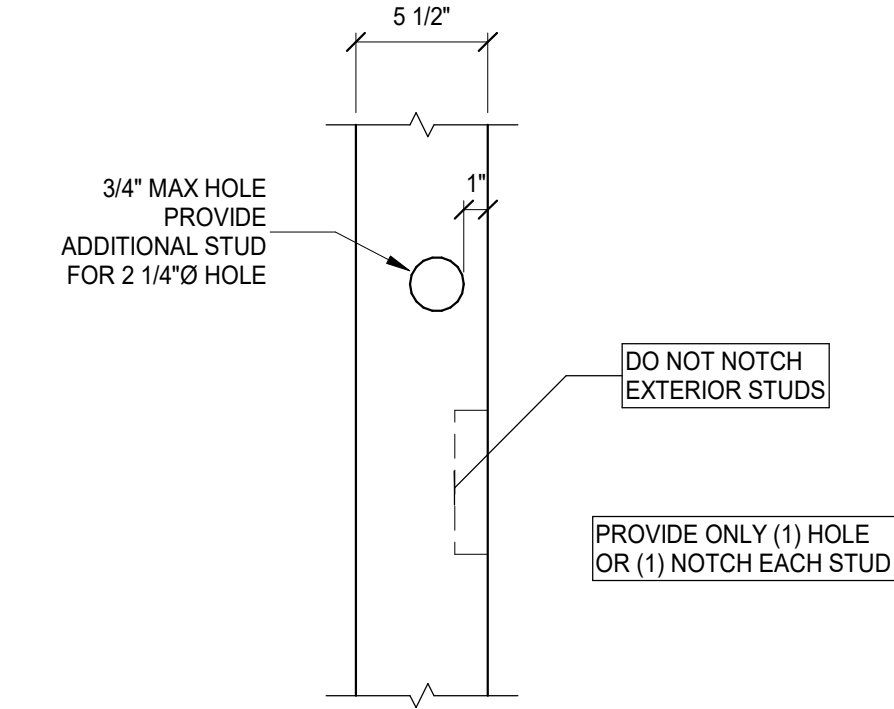
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SCALE 3/4" = 1'-0"



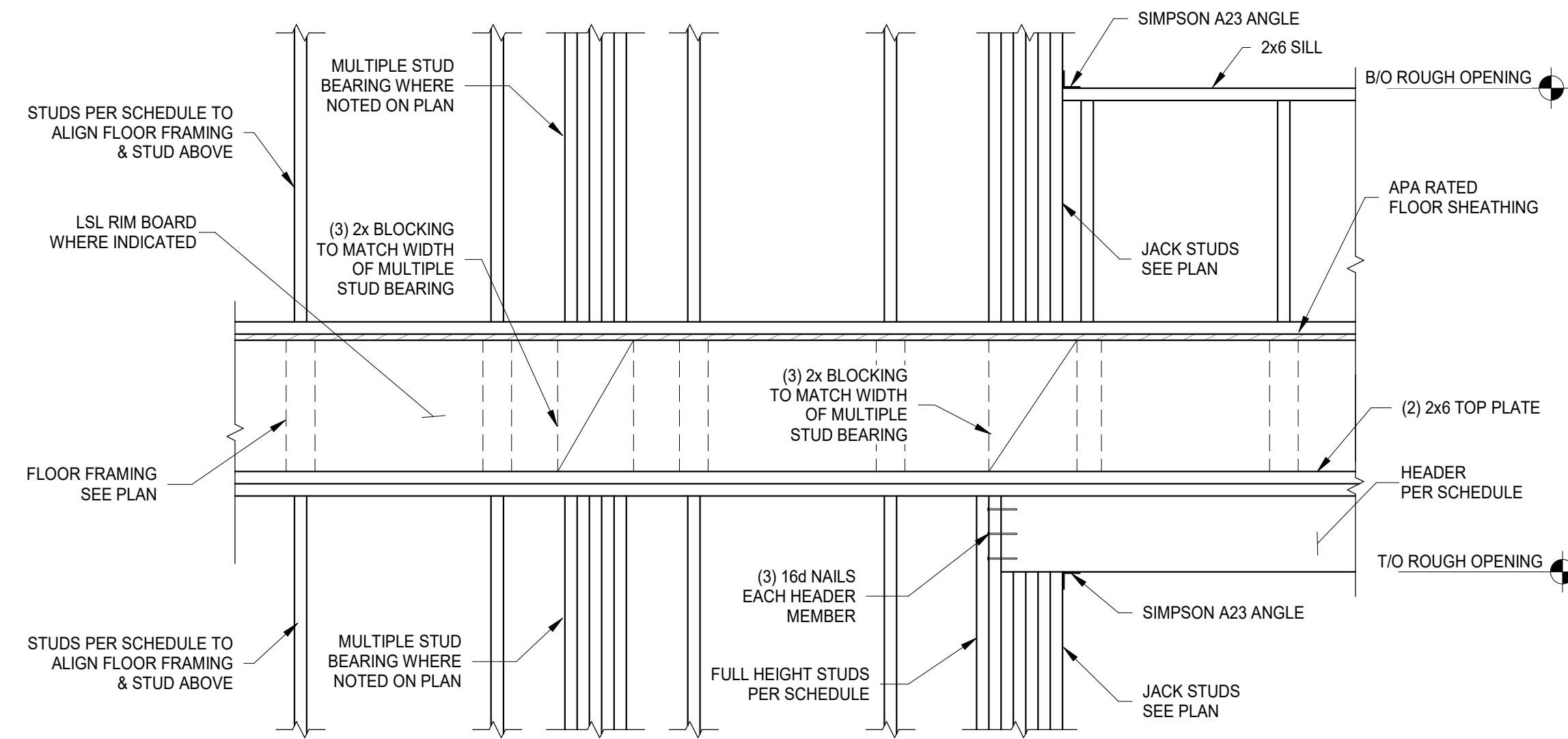
DEFLECTION CLIP - PERP NON BRG
SCALE 3/4" = 1'-0"



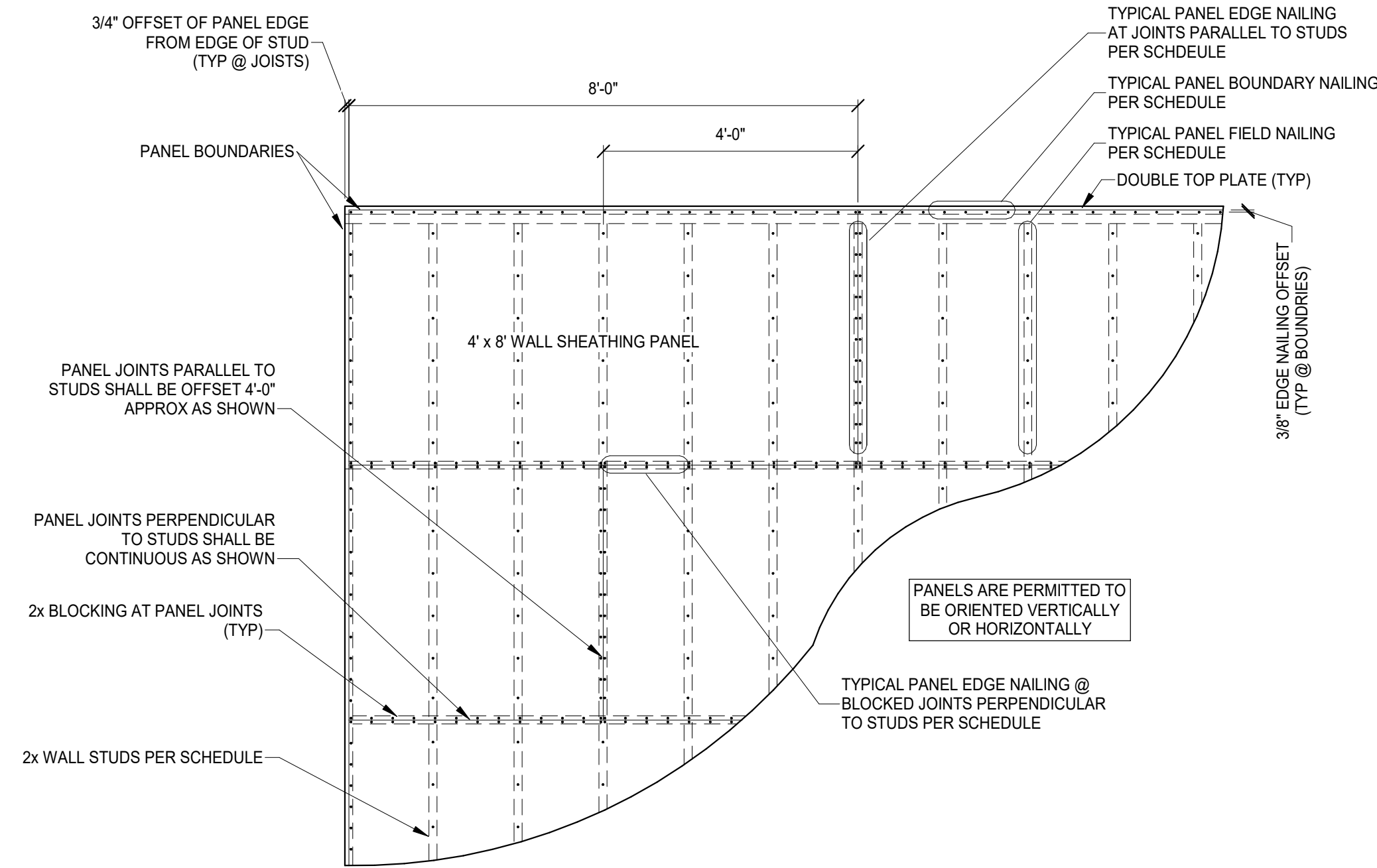
TYP INT LOAD BRG
SCALE 1 1/2" = 1'-0"



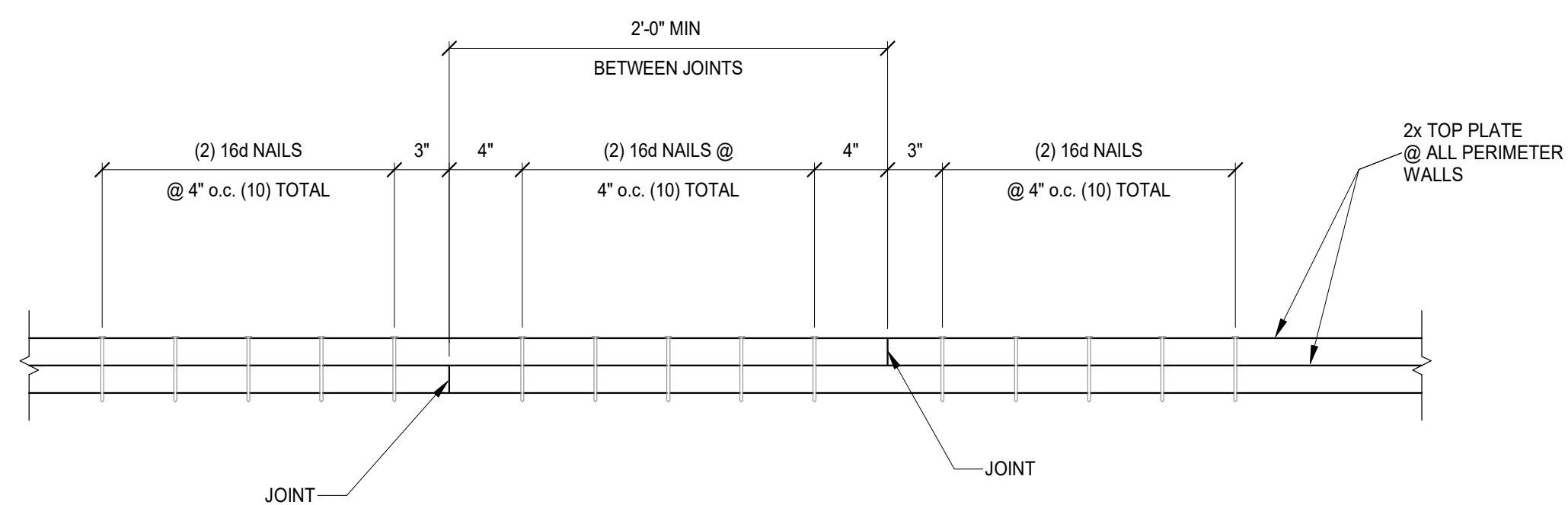
TYP EXT WALL
SCALE 1 1/2" = 1'-0"



TYPICAL FLOOR FRAMING ELEVATION
SCALE 3/4" = 1'-0"



TYPICAL SHEAR WALL NAILING SHEATHING
SCALE 1/2" = 1'-0"



TOP SPLICE AT PERIMETER WALLS
SCALE 1 1/2" = 1'-0"

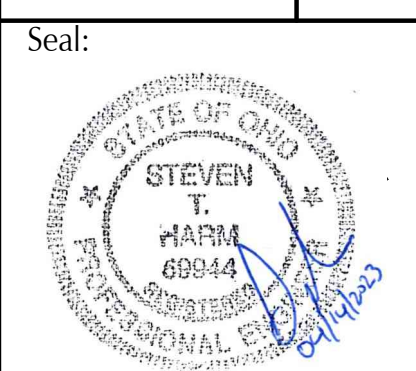
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PERMIT	04/14/2023	Date
80% OHFA Review	01/04/2023	Date
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PREPARED FOR: PCA ARCHITECTURE
GEIGER HOUSE FOR VETERANS / KLEKAMP
1651 GILBERT AVE - SIDDENCES
CINCINNATI, OH 45206

DRAWING TITLE: TYPICAL FRAMING SECTIONS



Proj. No.: 22101.48
Design Team: STH / SJ
Date: 11/15/2022
Drawing No.

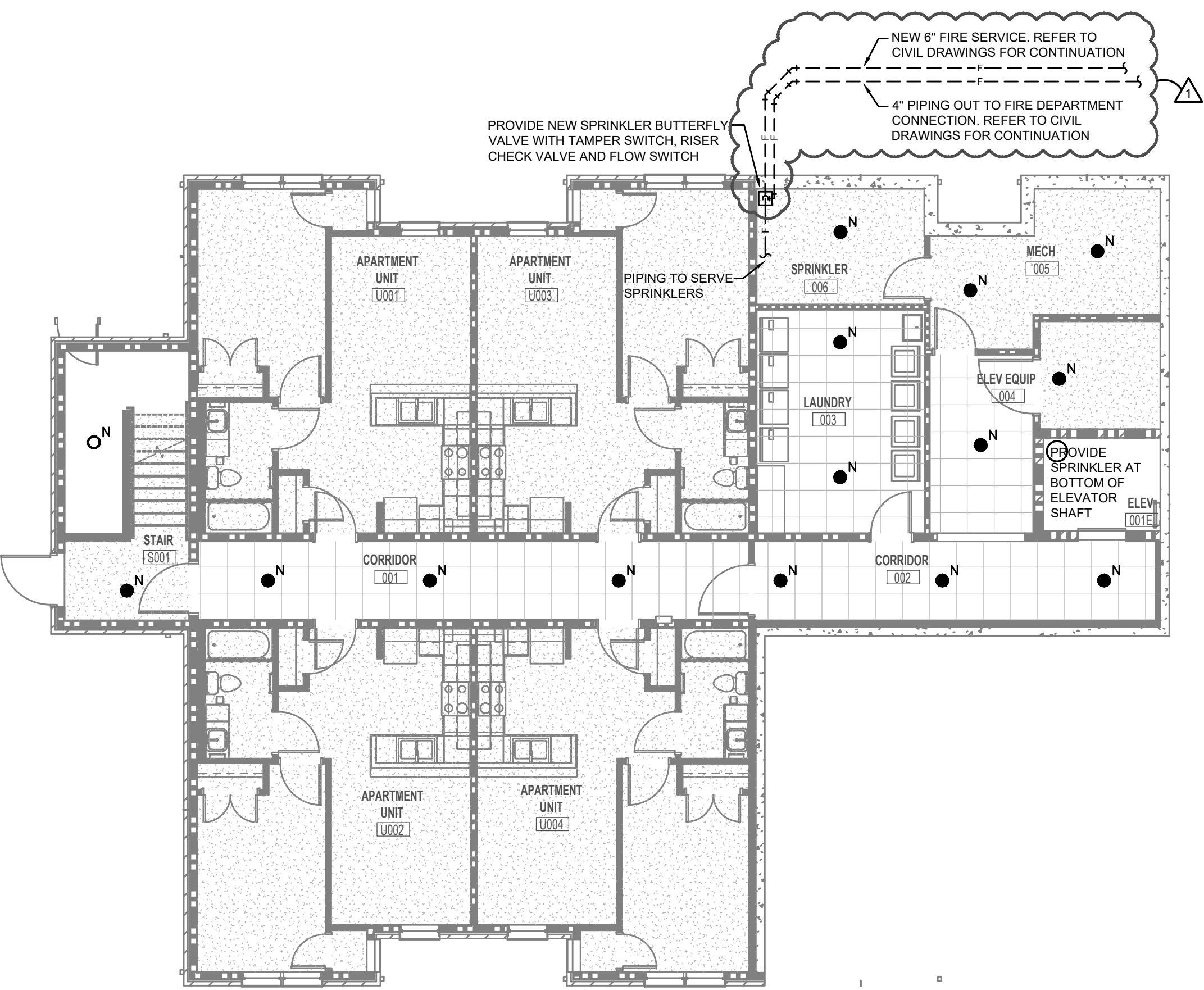
S321

The Geiger House for Veterans / Klekamp Family Residences - The Geiger House for Veterans - Cincinnati, OH - Construction Documents - Project No. 10041 - 04-13-2023 - 11:28am - Dr. Keith Schwaner
 THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTUAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.

FIRE PROTECTION GENERAL NOTES

INSTALL NEW SPRINKLER SYSTEM PER NFPA 13R.
 UNLESS SPECIFICALLY SHOWN OTHERWISE, ALL SPRINKLER PIPING TO BE CONCEALED IN CEILINGS AND WALLS.
 WHERE APPLICABLE, SPRINKLERS ARE TO BE LOCATED IN THE CENTER OF ALL CEILING TILES (IN AT LEAST ONE DIRECTION).
 COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.
 REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.
DELEGATED FIRE SUPPRESSION DESIGN
 DESIGN OF THE FIRE SUPPRESSION SYSTEM IS DELEGATED TO THE INSTALLING CONTRACTOR. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO THE PROJECT LOCALE, THE AUTHORITY HAVING JURISDICTION, AND INCLUDE IN SCOPE.
 THESE DRAWINGS SHOW THE INTENDED FIRE SUPPRESSION SCOPE. THE INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS REQUIRED TO OBTAIN THE PERMIT. THE DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL. DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT / OWNER FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT.
 REQUIRED COMPONENTS THAT ARE NOT SHOWN ON THESE DRAWINGS ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
— F —	FIRE SERVICE / SPRINKLER PIPING
○ ^N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
● ^N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
○ ^N	CONCEALED SIDEWALL SPRINKLER
○ ^D	DRY CONCEALED SIDEWALL SPRINKLER



FIRE PROTECTION BASEMENT PLAN
 SCALE: 1/8" = 1'-0"
 1 FP100

DIVISION 21 - FIRE SUPPRESSION

- GENERAL FIRE SUPPRESSION REQUIREMENTS
 - DELEGATED DESIGN - PROVIDE A COMPLETE AND FULLY OPERATIONAL FIRE PROTECTION SYSTEM, INCLUDING ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE FIRE SUPPRESSION WORK. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY/AUTHORITY HAVING JURISDICTION AND INCLUDE IN SCOPE. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS REQUIRED FOR FIRE PROTECTION PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL. ALL REQUIRED COMPONENTS ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.
 - THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR MUST REFER TO SITE PLANS, ARCHITECTURAL PLANS AND ELEVATIONS, AND PRICING INSTRUCTIONS FROM THE GENERAL CONTRACTOR TO DEVELOP THEIR PRICE. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR'S PRICE (INCLUDING TAXES) SHOULD INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL FIRE SUPPRESSION SYSTEM.
 - THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL BE LICENSED BY THE STATE OF OHIO TO INSTALL FIRE SUPPRESSION SYSTEMS.
 - ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NFPA, AND ALL APPLICABLE STATE, LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD.
 - THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR AT HIS OWN COST MUST FURNISH HIS OWN PROFESSIONALLY ENGINEERED, SIGNED/SEALED PERMIT DRAWINGS. DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND GENERAL CONTRACTOR FOR REVIEW AND COORDINATION WITH OTHER DISCIPLINES. THIS WORK MUST BE PERFORMED PRIOR TO SUBMITTAL.
 - SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE AND CERTIFIED SHOP DRAWINGS, HYDRAULIC CALCULATIONS, DESCRIPTIVE DATA, PERFORMANCE DATA AND RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW CONCURRENTLY WITH SUBMITTING FOR BUILDING DEPARTMENT APPROVAL. ARCHITECT MAY REQUIRE SPRINKLER LOCATIONS TO BE MOVED FOR COORDINATION PURPOSES OR AESTHETIC REASONS.
 - REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS, AND DRAWINGS EXCEPT AS NOTED HEREIN WHICH APPLY IN ALL RESPECTS TO THIS SECTION.
 - COORDINATE PIPING CHASES, SHAFTS, ABOVE CEILING WORK, ETC. WITH ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO WORK.
 - THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY SPRINKLER PIPING PENETRATIONS. THIS INCLUDES CORING HOLES IN SLABS, ETC.
 - EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF AGA, ARI, ASME, ASTM, CISPL, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY. ALL EQUIPMENT MUST BEAR UL LABEL.
 - INSTALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES.
 - THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE FIRE SUPPRESSION WORK PRIOR TO BID. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE. FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL TAKE THEIR OWN MEASUREMENTS.
 - WHERE NOT PROVIDED BY OTHERS, PROCURE AND PAY FOR ALL PERMITS, FEES, TAXES AND INSPECTIONS NECESSARY TO COMPLETE THE FIRE SUPPRESSION WORK. FURNISH CERTIFICATE OF APPROVAL FOR WORK FROM INSPECTION AUTHORITY TO OWNER BEFORE FINAL ACCEPTANCE FOR WORK. CERTIFICATE OF FINAL INSPECTION AND APPROVAL SHALL BE SUBMITTED WITH THE CONTRACTOR'S REQUEST FOR PAYMENT. NO FINAL PAYMENT WILL BE APPROVED WITHOUT THIS CERTIFICATE.
 - ALL WORK SHALL BE ACCURATELY LAID-OUT WITH OTHER TRADES, PRIOR TO INSTALLATION AND/OR FABRICATION. TO AVOID ALL CONFLICTS AND OBTAIN A NEAT AND WORKMANLIKE INSTALLATION WHICH WILL AFFORD MAXIMUM ACCESSIBILITY FOR EQUIPMENT OPERATION, MAINTENANCE CLEARANCES AND HEADROOM.
- USE OF INFORMATION PROVIDED BY EBS
 - THE INFORMATION PROVIDED IS INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS, SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL FIRE PROTECTION SYSTEM ARE THE RESPONSIBILITY OF THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR.
- CONTRACTOR COORDINATION
 - COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.
- SYSTEM DESIGN
 - FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED ACCORDING TO NFPA 13R.
 - FLOW TEST INFORMATION:
 TEST DATE: 03/11/2022
 HYDRANT FLOWED - 1ST HYDRANT NORTH OF FORAKER AVE ON GILBERT HYDRANT GAUGED - 1ST HYDRANT SOUTH OF LINCOLN AVE ON GILBERT
 STATIC - 61 PSI
 RESIDUAL - 60 PSI
 FLOW - 681 GPM
 - CONTRACTOR IS RESPONSIBLE FOR OBTAINING THEIR OWN FLOW TEST INFORMATION. FLOW TEST INFORMATION IS PROVIDED TO GIVE THE CONTRACTOR THE MOST RECENT INFORMATION AVAILABLE ON FILE AND MAY NO LONGER BE ACCURATE. CHANGES IN DESIGN AND ASSOCIATED ADDITIONAL COSTS INCURRED FOR USE OF INACCURATE FLOW TEST INFORMATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - PROVIDE NEW 6" DUAL SERVICE WATER BRANCH FROM THE MAIN IN THE STREET NEW 6" DUAL SERVICE WATER WORKS STANDARD DETAIL 108-14A.
 - ALL SPRINKLER PIPING SHALL BE INSTALLED ENTIRELY WITHIN THE THERMAL ENVELOPE (ON THE CONDITIONED SIDE OF THE AIR BARRIER).
 - RESIDENTIAL AREAS AND COMMON SPACES CAN BE DESIGNED AS LIGHT HAZARD OCCUPANCIES.
 - STORAGE AREAS AND MECHANICAL SPACES SHALL BE DESIGNED AS ORDINARY HAZARD GROUP 1 OCCUPANCIES.
- MONITORING/DETECTION/NOTIFICATION
 - FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR ALL MONITORING AND ALARM DEVICES FOR THE SPRINKLER SYSTEM. FIRE ALARM PANEL WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
 - PROVIDE FLOW SWITCH AT THE SPRINKLER SYSTEM RISER.
 - PROVIDE TAMPER SWITCHES TO MONITOR ALL SPRINKLER CONTROL VALVES.

- INTERIOR PIPING
 - WHERE ALLOWED BY CODE, PIPING CAN BE CPVC. THE PIPE SHALL BE RIGID CHLORINATED POLYVINYL CHLORIDE (CPVC), TYPE IV GRADE I, WITH A CELL CLASSIFICATION OF 2347 AS DEFINED IN ASTM D1784. THE PRODUCT SHALL BE ORANGE IN COLOR, AND APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) FOR USE WITH POTABLE WATER. MATERIAL SHALL BE BLZEMASTER CPVC MATERIAL AS PROVIDED BY NOVON, INC. (FORMERLY THE BF GOODRICH COMPANY). FITTINGS SHALL BE UL LISTED CPVC FITTINGS AND SHALL MEET ASTM F437 (SCH 80 THREADED), ASTM F437 (SCH 80 SOCKET), OR ASTM F438 (SCH 40 SOCKET) AS APPLICABLE. BY SPEARS MANUFACTURING CO. OR EQUIVALENT. SOLVENT CEMENTS SHALL BE THOSE REFERENCED IN GEORG FISCHER HARVEL LLC INSTALLATION INSTRUCTIONS (SUCH AS SPEARS FS-5 OR EQUIVALENT), WHICH MEET ASTM F656 AND ASTM F493, AND APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) FOR USE WITH POTABLE WATER. SOCKET TYPE JOINTS SHALL BE MADE USING THE ONE-STEP SOLVENT CEMENT JOINING METHOD IN ACCORDANCE WITH GE HARVEL INSTALLATION INSTRUCTIONS.
 - WHERE CPVC PIPING IS NOT ALLOWED, PIPING SMALLER THAN 2" SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH CLASS 125, CAST-IRON THREADED FITTINGS. PIPING LARGER THAN 2" SHALL BE SCHEDULE 10 BLACK STEEL PIPE WITH MECHANICAL GROOVED PIPE COUPLINGS (ROLL-GROOVED TYPE). 2" PIPING CAN BE SCHEDULE 40 BLACK STEEL PIPE WITH CLASS 125, CAST-IRON THREADED FITTINGS OR SCHEDULE 10 BLACK STEEL PIPE WITH MECHANICAL GROOVED PIPE COUPLINGS (ROLL-GROOVED TYPE).
- SPRINKLERS
 - SPRINKLERS SHALL BE LOCATED IN THE CENTER OF CEILING TILES (IN AT LEAST ONE DIRECTION).
 - FLEXIBLE FIRE SPRINKLER CONNECTIONS ARE ACCEPTABLE. FLEXIBLE FIRE SPRINKLER CONNECTIONS SHALL BE FULLY-BRAIDED, 304 STAINLESS STEEL AND APPROVED FOR USE PER NFPA 13R.
 - SPRINKLERS IN FINISHED CEILINGS SHALL BE FULLY RECESSED WITH FLAT WHITE COVER PLATE.
 - SPRINKLERS IN AREAS WITH NO CEILINGS SHALL BE BRASS UPRIGHT OR BRASS PENDENT.
 - PROVIDE SPRINKLERS IN ELEVATOR SHAFTS WHERE REQUIRED BASED ON ELEVATOR PROVIDED.
- ADDITIONAL STOCK
 - PROVIDE 2 ADDITIONAL SPRINKLERS OF EACH TYPE, WRENCHES, SIGNAGE, ETC. AT PROJECT TURNOVER.
- BACKFLOW PREVENTION
 - PROVIDE DOUBLE DETECTOR CHECK VALVE ASSEMBLY IN METER PIT.
- POST INDICATOR VALVE
 - PROVIDE POST INDICATOR VALVE AT METER PIT.
- FIRE DEPARTMENT CONNECTION
 - PROVIDE FIRE DEPARTMENT CONNECTION FOR SPRINKLER SYSTEM AT METER PIT.
- HANGERS & SUPPORTS
 - FURNISH ALL PIPE SUPPORTS REQUIRED FOR THEIR WORK. ALL PIPING SHALL BE SUPPORTED PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING.
- ESCUTCHEON PLATES
 - INSTALL ONE-PIECE CHROME PLATED BRASS WALL PLATE EQUIPPED WITH SET SCREW AROUND ALL EXPOSED PIPE PASSING THROUGH WALLS IN FINISHED AREAS.
- ACCESS PANELS
 - LOCATE VALVES IN READILY ACCESSIBLE LOCATIONS, WHERE VALVES SHALL BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS. PROVIDE ACCESS PANELS. ACCESS PANELS SHALL BE PAINTABLE METAL. COORDINATE ACCESS PANEL SIZES AND LOCATIONS WITH THE ARCHITECT.
- FIRESTOPPING
 - PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH RATED SEPARATIONS PER LOCAL CODES & REGULATIONS & PER UL RECOMMENDATIONS FOR ASSEMBLIES ENCOUNTERED IN PROJECT.
 - THE FIRESTOPPING MATERIAL SHALL MAINTAIN THE INTEGRITY OF THE FIRE RATED WALL, FLOOR, CEILING & ROOF BEING PENETRATED. REFER TO ARCHITECT'S DRAWINGS FOR WALL, FLOOR, CEILING & ROOF FIRE RATINGS PRIOR TO BIDDING WORK.
- CATHODIC PROTECTION
 - PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR OTHER METALS IN CONTACT WITH THE PIPE.
- EXCAVATION, TRENCHING & BACKFILL
 - DO ALL EXCAVATION, TRENCHING & BACKFILL REQUIRED FOR THE INSTALLATION OF ALL FIRE SUPPRESSION WORK.
 - ALL BACKFILL SHALL BE COMPACTED & BROUGHT TO FINISHED GRADE AND SHALL MATCH SURROUNDING CONDITIONS.
 - RESTORE ALL DISTURBED FLOORING TO ORIGINAL CONDITION.
 - ALL PIPING SHALL BE LAID ON A BED OF SAND, 6" THICK MINIMUM. BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALLS WITH BACKFILL GRAVEL.
- CUTTING AND PATCHING
 - CUT AND PATCH WALLS AND FLOORS TO MATCH BUILDING CONSTRUCTION WHERE REQUIRED TO INSTALL ALL FIRE SUPPRESSION WORK.
- INSTALLATION
 - INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR SLABS.
 - WHERE PIPING PASSES THROUGH CONCRETE WALLS, MASONRY WALLS, GYPSUM-BOARD PARTITIONS, CONCRETE FLOORS, AND ROOF SLABS, OPENINGS SHALL BE CUT CLEAN AROUND THE PIPING WITH NOT MORE THAN 2 INCHES OF SPACE BETWEEN THE PIPING AND THE OPENING. PIPE SLEEVES WILL BE REQUIRED WHERE THERE IS MORE THAN 2 INCHES OF SPACE BETWEEN THE PIPE AND THE OPENING.
- TESTING
 - ALL FIRE SUPPRESSION WORK SHALL BE TESTED & APPROVED BY INSPECTOR PRIOR TO BEING BACKFILLED, CONCEALED & PUT INTO SERVICE.
- SHOP DRAWINGS
 - SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL PIPING, DEVICES, AND EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
 - THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR REVIEW.
 - REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.
- OWNER'S INSTRUCTIONS
 - PROVIDE TWO SETS OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS WITH DRAWINGS, TYPEWRITTEN INSTRUCTIONS AND OPERATING SEQUENCES AND DESCRIPTIVE DATA SHEETS. ASSEMBLE EACH SET IN A HARD-BOUND COVER.
- WARRANTY
 - THE FIRE SUPPRESSION CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND THE FIRE SUPPRESSION CONTRACTOR WILL REPAIR OR REPLACE DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE TO THE OWNER.
 - RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP.



ISSUANCES	DATE	DESCRIPTION	BY	FOR
	01/18/2023	80% CHFA Review		
	04/13/2023	PERMIT SET		
	06/20/2023	PERMIT REVIEW		

Geiger House for Veterans / Klekamp Family Residences
 2631 GILBERT AVE.
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PR - 10041

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DRAWN BY: KAS | CHECKED BY: SSS

PROJECT NO.: 10041

SCALE: AS NOTED

DATE: 04-13-2023

DRAWING TITLE
FIRE PROTECTION BASEMENT PLAN

SHEET NO.
FP100



ISSUANCES	DATE	DESCRIPTION
	01/18/2023	80% OMPA Review
	04/13/2023	PERMIT SET

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DRAWN BY: KAS
CHECKED BY: SSS

PROJECT NO.: 10041

SCALE: AS NOTED

DATE: 04-13-2023

DRAWING TITLE
FIRE PROTECTION
SECOND FLOOR
PLAN

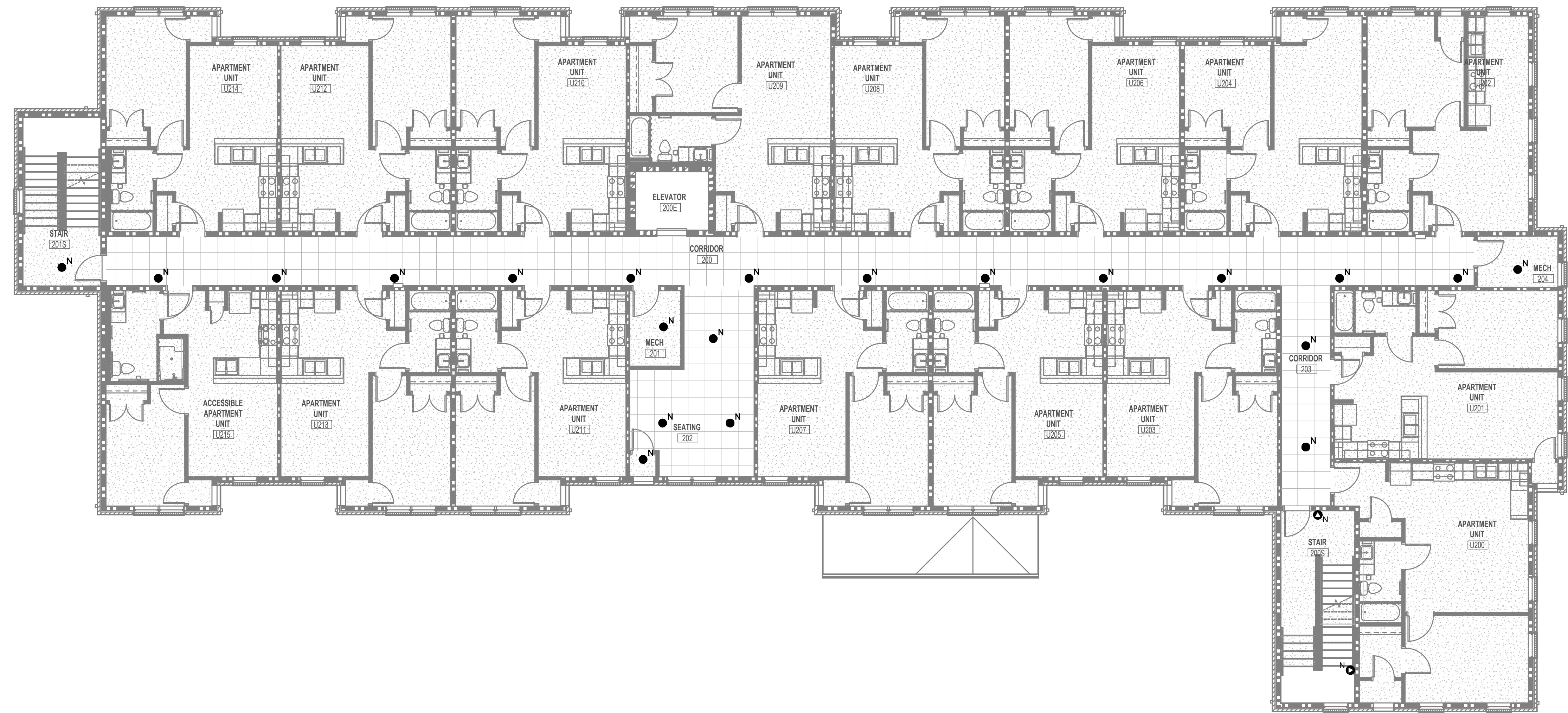
SHEET NO.
FP102

FIRE PROTECTION GENERAL NOTES

INSTALL NEW SPRINKLER SYSTEM PER NFPA 13R.
 UNLESS SPECIFICALLY SHOWN OTHERWISE, ALL SPRINKLER PIPING TO BE CONCEALED IN CEILINGS AND WALLS.
 WHERE APPLICABLE, SPRINKLERS ARE TO BE LOCATED IN THE CENTER OF ALL CEILING TILES (IN AT LEAST ONE DIRECTION).
 COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.
 REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.
DELEGATED FIRE SUPPRESSION DESIGN
 DESIGN OF THE FIRE SUPPRESSION SYSTEM IS DELEGATED TO THE INSTALLING CONTRACTOR. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO THE PROJECT LOCALE, THE AUTHORITY HAVING JURISDICTION, AND INCLUDE IN SCOPE.
 THESE DRAWINGS SHOW THE INTENDED FIRE SUPPRESSION SCOPE. THE INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS REQUIRED TO OBTAIN THE PERMIT. THE DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL. DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT / OWNER FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT.
 REQUIRED COMPONENTS THAT ARE NOT SHOWN ON THESE DRAWINGS ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
— F —	FIRE SERVICE / SPRINKLER PIPING
○ ^N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
● ^N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
○ ^N	CONCEALED SIDEWALL SPRINKLER
○ ^D	DRY CONCEALED SIDEWALL SPRINKLER



1 FIRE PROTECTION SECOND FLOOR PLAN
 FP102 SCALE: 1/8" = 1'-0"

2A - Project: Firecheck (1000-10041) 10041 - The Geiger House for Veterans - Klekamp Family Residences - Cincinnati, OH - Construction Documents - Fire Protection - 04/13/2023 - 11:28am - Dr. Keith Schmitt
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ISSUANCES	DATE	DESCRIPTION
	01/18/2023	80% OMPA Review
	04/13/2023	PERMIT SET

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CHECKED BY: SSS

PROJECT NO.: 10041

SCALE: AS NOTED

DATE: 04-13-2023

DRAWING TITLE
FIRE PROTECTION
THIRD FLOOR PLAN

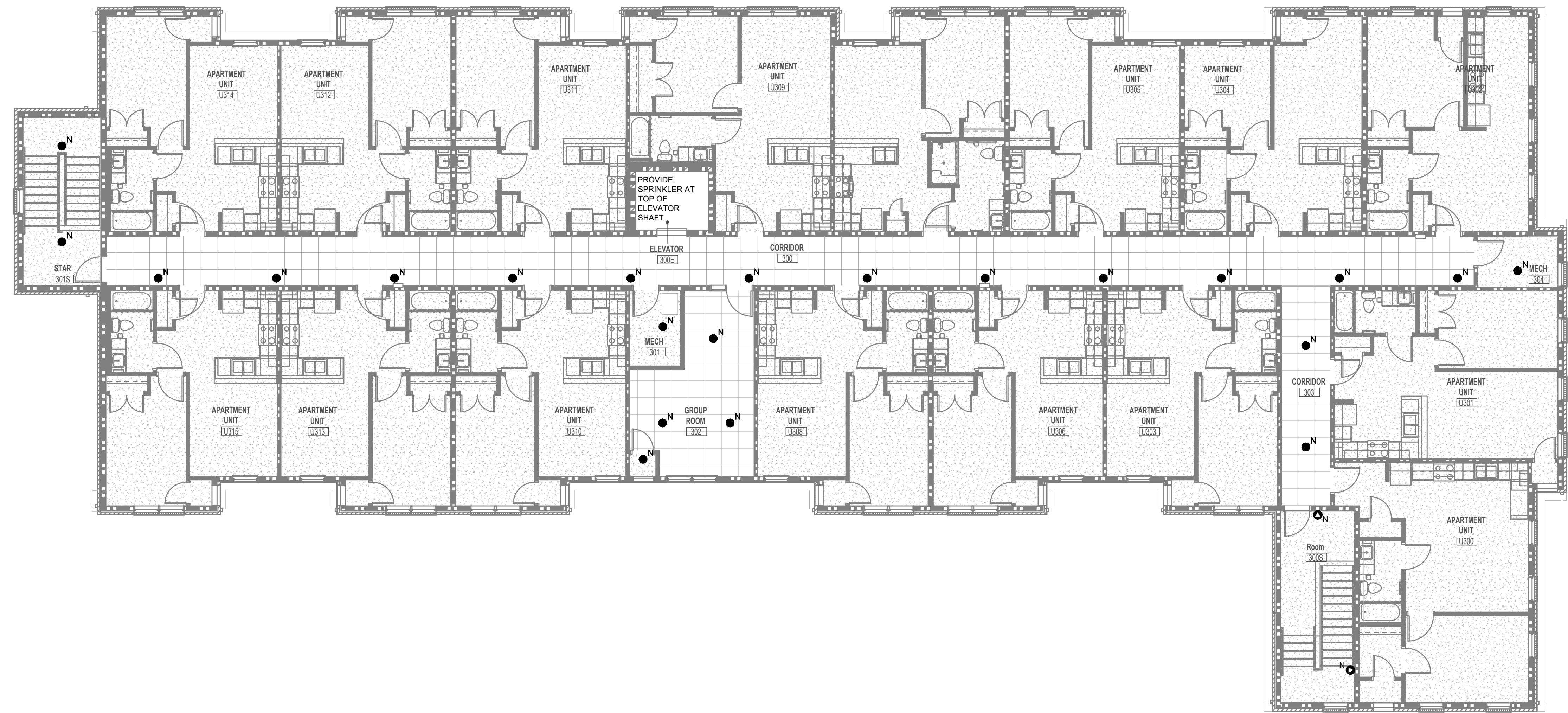
SHEET NO.
FP103

FIRE PROTECTION GENERAL NOTES

INSTALL NEW SPRINKLER SYSTEM PER NFPA 13R.
 UNLESS SPECIFICALLY SHOWN OTHERWISE, ALL SPRINKLER PIPING TO BE CONCEALED IN CEILINGS AND WALLS.
 WHERE APPLICABLE, SPRINKLERS ARE TO BE LOCATED IN THE CENTER OF ALL CEILING TILES (IN AT LEAST ONE DIRECTION).
 COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.
 REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.
DELEGATED FIRE SUPPRESSION DESIGN
 DESIGN OF THE FIRE SUPPRESSION SYSTEM IS DELEGATED TO THE INSTALLING CONTRACTOR. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO THE PROJECT LOCALE, THE AUTHORITY HAVING JURISDICTION, AND INCLUDE IN SCOPE.
 THESE DRAWINGS SHOW THE INTENDED FIRE SUPPRESSION SCOPE. THE INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS REQUIRED TO OBTAIN THE PERMIT. THE DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL. DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT / OWNER FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT.
 REQUIRED COMPONENTS THAT ARE NOT SHOWN ON THESE DRAWINGS ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

FIRE PROTECTION LEGEND

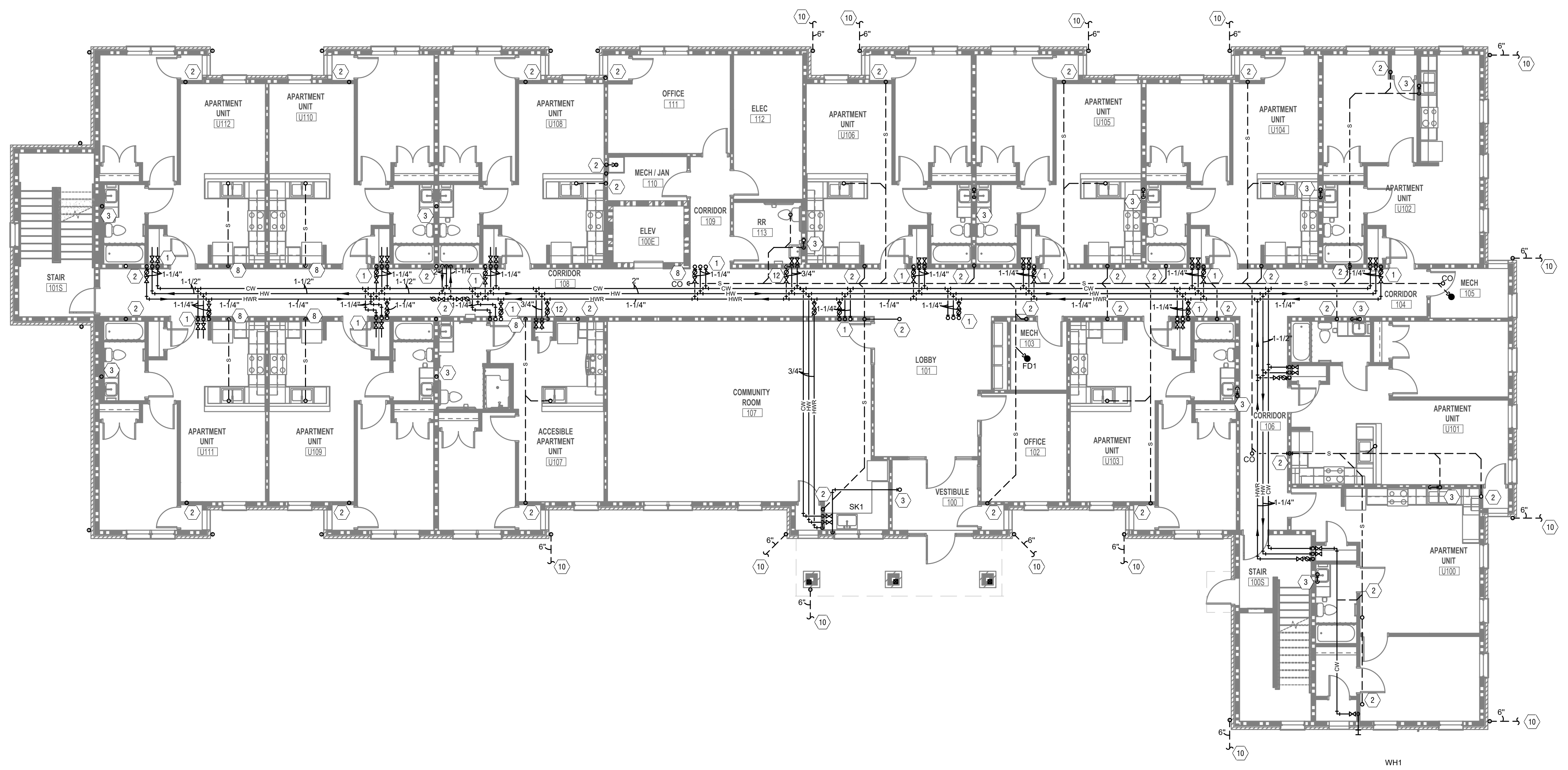
SYMBOL	DESCRIPTION
— F —	FIRE SERVICE / SPRINKLER PIPING
○ ^N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
● ^N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
○ ^N	CONCEALED SIDEWALL SPRINKLER
○ ^D	DRY CONCEALED SIDEWALL SPRINKLER



1 FIRE PROTECTION THIRD FLOOR PLAN
 FP103 SCALE: 1/8" = 1'-0"

2A - Project: Firecheck (1000-10041) 10041 - Tolson House - The Geiger House for Veterans - Cincinnati, OH - Construction Documents (1000-10041) 10041 - 04/13/2023 11:28 AM - By: KAS, Sivert
 THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTUAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.

2A - Project: P101 - Geiger House for Veterans - The Geiger House for Veterans - Plumbing First Floor Plan - EBS - PR - 10041 - 04-13-2023 - 11:17 AM - By: dsh4dsh4
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1
PLUMBING FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"

- ### PLUMBING GENERAL NOTES
- A. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT.
 - B. DESIGN DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR REQUIRED FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
 - C. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
 - D. PROVIDE POINT-OF-USE THERMOSTATIC MIXING VALVES ON ALL PUBLIC LAVATORIES AND HAND SINKS. VALVES SHALL MEET ASSE 1070 AND SHALL BE EQUAL TO WATTS USG-8.
 - E. PROVIDE SQUARE STRAINERS ON FLOOR DRAINS IN TILED AREAS.
 - F. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL FIXTURE MOUNTING HEIGHTS.
 - G. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION. ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
 - H. COORDINATE ALL WORK AND SPACE REQUIREMENTS IN CEILING SPACES WITH OTHER TRADES PRIOR TO INSTALLATION, INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, FIRE PROTECTION, AND MECHANICAL.
 - I. INSTALL ALL EQUIPMENT WITH CODE REQUIRED AND MANUFACTURER RECOMMENDED MINIMUM CLEARANCES FOR SERVICE, ACCESS, AND FIRE PROTECTION.
 - J. MAINTAIN A MINIMUM OF 10 FEET BETWEEN ALL OUTSIDE AIR INTAKES AND ALL EXHAUST, VENT, AND FLUE OUTLETS.
 - K. WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES WILL NOT BE PERMITTED WITHOUT PROVIDING FROST PROOF PROTECTION.
 - L. MAKE FINAL CONNECTION TO OWNER SUPPLIED EQUIPMENT.
 - M. WHEREVER FIXTURES REQUIRING PLUMBING CONNECTIONS ARE FURNISHED BY OWNER OR ARE RELOCATED, PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL CARRIERS, "P" TRAP AND STOPS.

- ### PLUMBING KEYED SHEET NOTES
1. HOT, COLD AND HOT WATER RETURN WATER RISERS
 2. SANITARY PIPING UP TO LEVEL ABOVE
 3. VENT PIPING UP TO LEVEL ABOVE
 4. VENT PIPING DOWN TO FIXTURE BELOW
 5. VENT PIPING DOWN TO LEVEL BELOW
 6. NEW SANITARY SERVICE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION
 7. NEW DOMESTIC WATER SERVICE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION AND METER LOCATION.
 8. SANITARY PIPING DOWN TO LEVEL BELOW
 9. NEW GAS SERVICE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION, COORDINATE WITH UTILITY COMPANY.
 10. NEW STORM PIPING FOR DOWNSPOUT, COORDINATE WITH UTILITY PLAN FOR CONTINUATION.
 11. ROUTE 4" PVC WATER HEATER EXHAUST AND INTAKE PIPING OUT WALL PER MANUFACTURER'S INSTALLATION AND INSTRUCTIONS. PROVIDE MANUFACTURER-SUPPLIED TERMINATION KITS.
 12. HOT AND COLD WATER DOWN TO LEVEL BELOW.



ISSUANCES	DATE	DESCRIPTION
	01/18/2023	60% CHFA Review
	04/13/2023	PERMIT SET

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PROJECT NO.: 10041	
SCALE: AS NOTED	
DATE: 04-13-2023	
DRAWING TITLE PLUMBING FIRST FLOOR PLAN	
SHEET NO. P101	

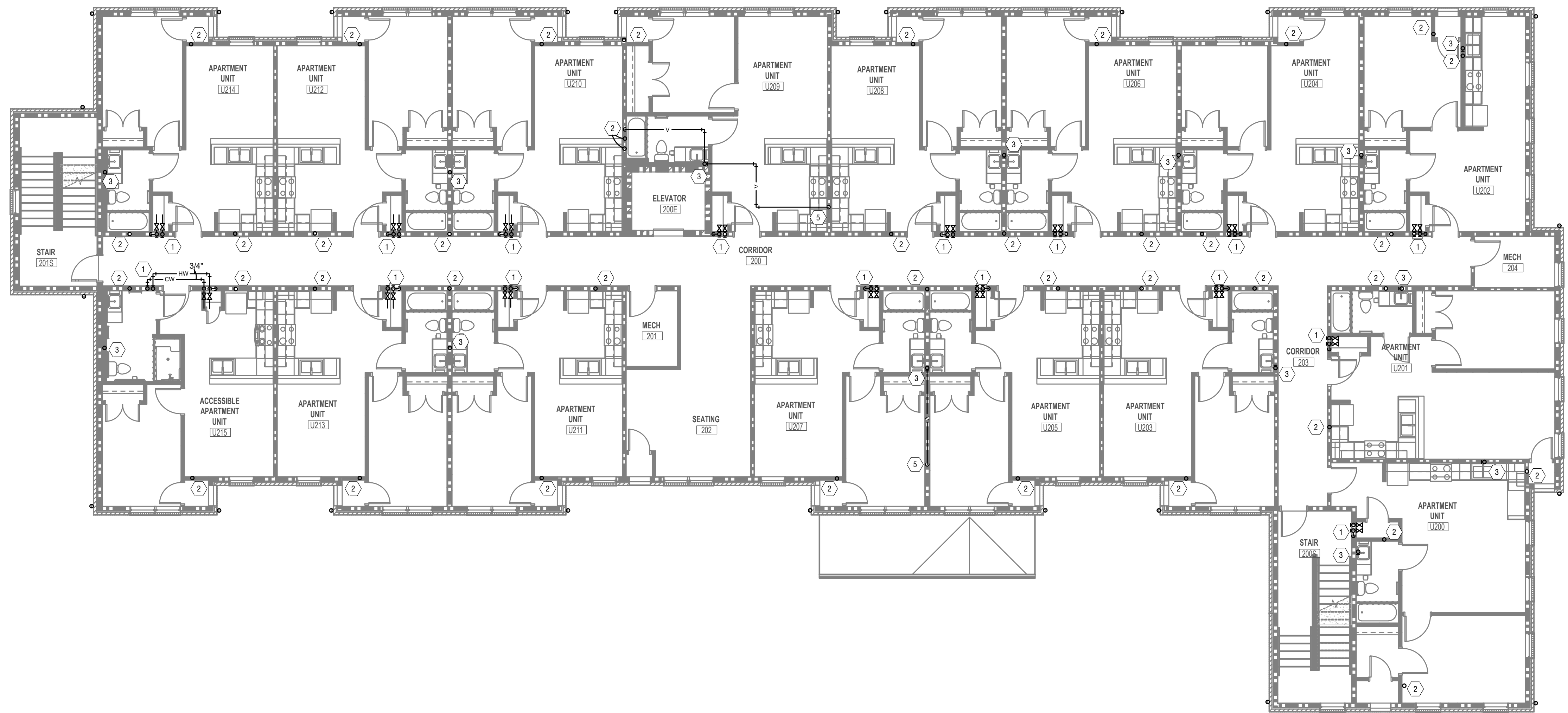
2A - Project Description: 1000A-1000A 1004 - The Geiger House for Veterans - Toilet Room - Plumbing. EBS, Inc. is the contractor for this project. The drawings are prepared by EBS, Inc. and are intended to provide the authorities having jurisdiction with information to determine code compliance. EBS, Inc. is not responsible for the compliance or condition of existing equipment and wiring. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.



PLUMBING GENERAL NOTES

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- G. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION. ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
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- I. INSTALL ALL EQUIPMENT WITH CODE REQUIRED AND MANUFACTURER RECOMMENDED MINIMUM CLEARANCES FOR SERVICE, ACCESS, AND FIRE PROTECTION.
- J. MAINTAIN A MINIMUM OF 10 FEET BETWEEN ALL OUTSIDE AIR INTAKES AND ALL EXHAUST, VENT, AND FLUE OUTLETS.
- K. WATER PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES WILL NOT BE PERMITTED WITHOUT PROVIDING FROST PROOF PROTECTION.
- L. MAKE FINAL CONNECTION TO OWNER SUPPLIED EQUIPMENT.
- M. WHEREVER FIXTURES REQUIRING PLUMBING CONNECTIONS ARE FURNISHED BY OWNER OR ARE RELOCATED, PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL CARRIERS, "P" TRAP AND STOPS.

ISSUANCES	DATE	DESCRIPTION
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	04/13/2023	PERMIT SET



PLUMBING KEYED SHEET NOTES

- 1. HOT, COLD AND HOT WATER RETURN WATER RISERS
- 2. SANITARY PIPING UP TO LEVEL ABOVE
- 3. VENT PIPING UP TO LEVEL ABOVE
- 4. VENT PIPING DOWN TO FIXTURE BELOW
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PROJECT NO.: 10041	
SCALE: AS NOTED	
DATE: 04-13-2023	
DRAWING TITLE PLUMBING SECOND FLOOR PLAN	
SHEET NO. P102	

1
PLUMBING SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"

2A-Project Drawings 10000-10001 10001 - Toilet House for Veterans - Cincinnati OH - Cincinnati, December 10001-10000-PLUMBING DETAILS-4a- EBS, Pk. Date: 07/24/2023, 11:18am. By: dsh44444444
 THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS AND SPECIFICATIONS ARE PREPARED TO BE COMPLIANT WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.

1. GENERAL PLUMBING REQUIREMENTS

- a. THE PLUMBING CONTRACTOR MUST REFER TO SITE PLANS, ARCHITECTURAL PLANS AND ELEVATIONS, AND PRICING INSTRUCTIONS FROM THE GENERAL CONTRACTOR TO DEVELOP THEIR PRICE. THE PLUMBING CONTRACTORS PRICE (INCLUDING TAXES) SHOULD INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM.
- b. THE PLUMBING CONTRACTOR SHALL BE LICENSED BY THE STATE OF OHIO TO INSTALL PLUMBING SYSTEMS.
- c. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL CODES AND ORDINANCES. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD.
- d. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE AND CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA AND RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
- e. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS, AND DRAWINGS EXCEPT AS NOTED HEREIN WHICH APPLY IN ALL RESPECTS TO THIS SECTION.
- f. COORDINATE PIPING CHASES, SHAFTS, ABOVE CEILING WORK, ETC. WITH ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO WORK.
- g. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY PLUMBING PIPING PENETRATIONS. THIS INCLUDES CORING HOLES IN SLABS, ETC.
- h. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMCMA, ASHRAE, NFPA, NEC, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY. ALL EQUIPMENT MUST BEAR UL LABEL.
- i. INSTALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES.
- j. WHERE NOT PROVIDED BY OTHERS, PROCURE AND PAY FOR ALL PERMITS, FEES, TAXES AND INSPECTIONS NECESSARY TO COMPLETE THE PLUMBING WORK. FURNISH CERTIFICATE OF APPROVAL FOR WORK PERFORMED UNDER INSPECTION AUTHORITY TO OWNER BEFORE FINAL ACCEPTANCE FOR WORK. CERTIFICATE OF FINAL INSPECTION AND APPROVAL SHALL BE SUBMITTED WITH THE CONTRACTORS REQUEST FOR PAYMENT. NO FINAL PAYMENT WILL BE MADE WITHOUT THIS CERTIFICATE.
- k. ALL WORK SHALL BE ACCURATELY LAID-OUT WITH OTHER TRADES, PRIOR TO INSTALLATION & FABRICATION, TO AVOID ALL CONFLICTS AND OBTAIN A NEAT AND WORKMANLIKE INSTALLATION WHICH WILL AFFORD MAXIMUM ACCESSIBILITY FOR EQUIPMENT OPERATION, MAINTENANCE CLEARANCES AND HEADROOM.

2. USE OF INFORMATION PROVIDED BY EBS

- a. THE INFORMATION PROVIDED IS INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS, SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL PLUMBING SYSTEM ARE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.
- a. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE PLUMBING CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER, ETC. PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.

4. PLUMBING FIXTURES

- a. SHUT OFF VALVES/STOPS SHALL BE PROVIDED AT ALL LAVATORIES, SINKS AND WATER CLOSETS.
- a. ALL WALL-HUNG PLUMBING FIXTURES, INCLUDING, BUT NOT LIMITED TO WATER CLOSETS, URINALS, LAVATORIES, AND SINKS SHALL BE ANCHORED TO THE FLOOR WITH CONCEALED IN-WALL CARRIERS. WALL-HUNG FIXTURES SHALL NOT BE SIMPLY BOLTED TO THE WALL OR ANCHORED TO WOOD BLOCKING.
- c. COORDINATE COLOR OF FIXTURES WITH ARCHITECT. FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED.
- d. PROVIDE ADA COMPLIANT FIXTURES WHERE INDICATED ON THE ARCHITECTURAL PLANS. PROVIDE OFFSET FIXTURE TAILPIECES AND TRAPS WHERE REQUIRED TO MEET ADA LEG CLEARANCES.
- e. FIXTURES SHALL BE SECURELY FASTENED TO PREVENT ANY MOVEMENT OF FIXTURE DURING USE. SEAL TO WALL, FLOOR OR COUNTERTOP WITH SILICONIZED ACRYLIC-LATEX CAULK.

5. DOMESTIC WATER SYSTEMS

- a. PROVIDE A NEW DOMESTIC WATER SERVICE TO THE BUILDING.
- b. EXTERIOR DOMESTIC WATER SERVICE PIPING:
 - i. EXTERIOR WATER SERVICE PIPING 2" AND SMALLER TO BE PVC, SDR 21 SERIES PIPE, MANUFACTURED FROM A TYPE I, GRADE 1 POLYVINYL CHLORIDE (PVC) COMPOUND WITH A CELL CLASSIFICATION OF 12454 PER ASTM D1784. THE PIPE SHALL BE MANUFACTURED IN STRICT COMPLIANCE TO ASTM D2241. STANDARD LENGTHS OF PIPE SIZES 10" AND LARGER SHALL BE BEVELED EACH END BY THE PIPE MANUFACTURER. ALL PIPE SHALL BE STORED INDOORS AFTER PRODUCTION AT THE MANUFACTURING SITE UNTIL SHIPPING FROM FACTORY. THIS PIPE MUST CARRY THE NATIONAL SANITATION FOUNDATION (NSF) SEAL OF APPROVAL FOR POTABLE WATER APPLICATIONS. PIPE MUST INCORPORATE A FORMED BELL COMPLETE WITH A SINGLE RUBBER GASKET CONFORMING TO ASTM F477. JOINTS SHALL BE DESIGNED TO MEET THE ZERO LEAKAGE TEST REQUIREMENTS OF ASTM D 3139. SOLVENT CEMENT: JOINT SURFACES SHALL BE CLEAN AND FREE FROM MOISTURE. A PRIMER THAT CONFORMS TO ASTM F658 SHALL BE APPLIED. SOLVENT CEMENT CONFORMING TO ASTM D2564 SHALL BE APPLIED TO ALL JOINT SURFACES. THE JOINT SHALL BE MADE WHILE THE CEMENT IS WET AND SHALL BE IN ACCORDANCE WITH ASTM D2855.
 - c. INTERIOR DOMESTIC WATER PIPING:
 - i. WHERE ALLOWED BY CODE, CPVC PIPING CAN BE USED.
 - a. CPVC PIPING 2" AND SMALLER SHALL BE EQUAL TO FLOW GUARD GOLD - THIS SPECIFICATION COVERS COPPER TUBE SIZE (CTS) CPVC MANUFACTURED TO STANDARD DIMENSIONAL RATIO (SDR) 11 FOR HOT AND COLD DOMESTIC WATER DISTRIBUTION. THIS SYSTEM IS INTENDED FOR PRESSURE APPLICATIONS WHERE THE OPERATING TEMPERATURE WILL NOT EXCEED 180°F AT 100 PSI. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM VIRGIN RIGID CPVC (CHLORINATED POLYVINYL CHLORIDE) VINYL COMPOUNDS WITH A CELL CLASS OF 2448 AS IDENTIFIED IN ASTM D 1784. CTS CPVC PIPE AND FITTINGS SHALL CONFORM TO ASTM D 2846. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. PIPE AND FITTINGS SHALL CONFORM TO NATIONAL SANITATION FOUNDATION (NSF) STANDARDS I4 AND 61. INSTALLATION SHALL COMPLY WITH LATEST INSTALLATION PROVIDED BY THE MANUFACTURER AND SHALL CONFORM TO ALL LOCAL BUILDING, BUILDING AND FIRE CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F 1668. SOLVENT WELD JOINTS SHALL BE MADE USING CPVC CEMENT CONFORMING TO ASTM F 493. YELLOW ONE-STEP CEMENT MAY BE USED WITHOUT PRIMER. IF A PRIMER IS REQUIRED BY LOCAL PLUMBING OR BUILDING CODES, THEN A PRIMER CONFORMING TO ASTM F 656 SHOULD BE USED. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS, FIRE STOPPING MATERIALS, THREAD SEALANT, PLASTICIZED VINYL PRODUCTS OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH CPVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION. NEVER TEST WITH OR TRANSPORT/STORE COMPRESSED AIR OR GAS IN CPVC PIPE OR FITTINGS.
 - ii. WHERE ALLOWED BY CODE, PEX TUBE AND FITTINGS CAN BE USED. TUBING SHALL BE PEX-A TYPE AND FITTINGS SHALL BE EQUAL TO UPONOR AQUALPEX. TUBING AND FITTINGS MUST CONFORM TO ASTM F876 "STANDARD SPECIFICATION FOR CROSSLINKED POLYETHYLENE, ASTM F877 "STANDARD FOR CROSSLINKED POLYETHYLENE PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS". PROVIDE ENGINEERED PLASTIC FITTINGS WITH PLASTIC COLLARS WHICH CONFORM TO ASTM F1960 STANDARD SPECIFICATION FOR COLD EXPANSION FITTINGS WITH PEX REINFORCING RINGS FOR USE WITH CROSSLINKED POLYETHYLENE

- PIPING. PEX TUBING AND CONNECTIONS SHALL BE WARRANTED FOR A PERIOD OF 25 YEARS. DO NOT WELD, GLUE, TAPE OR ALLOW OTHER SOLVENT BASED ADHESIVES OR PAINTS TO COME INTO CONTACT WITH TUBING. DO NOT ALLOW TUBING TO COME IN CONTACT WITH PIPE, THREAD COMPOUNDS, FIREWALL PENETRATIONS, FIBERGLASS COMPOUNDS, AND PETROLEUM BASED SEALANTS. DO NOT ALLOW TUBING TO COME WITHIN 6" OF GAS APPLIANCE VENTS OR 12" OF RECESSED LIGHT FIXTURES. DO NOT EXPOSE TUBING TO OPEN FLAME. DO NOT SOLDER WITHIN 18" OF TUBING. DO NOT INSTALL TUBING BETWEEN TUB SPOUT AND SHOWER VALVE. RADIUS OF BENDS MUST NOT EXCEED SIX TIMES OUTSIDE TUBE DIAMETER. REPAIR KINKS IN TUBING USING HEAT AS RECOMMENDED BY MANUFACTURER. TUBING SHALL BE INSTALLED IN MAXIMUM LEG LENGTHS, AS DIRECTLY AS POSSIBLE TO REMOTE MANIFOLD WITH MINIMUM FITTINGS. TUBING SHALL BE SUPPORTED IN A MANNER THAT DOES NOT DAMAGE TUBING AND ALLOWS FOR THERMAL EXPANSION. SUPPORTS SHALL BE SPACED AT 32" MINIMUM HORIZONTALLY AND 60" VERTICALLY AND WITHIN 6" OF FITTINGS OR BENDS. USE BEND SUPPORTS AT 90 DEGREE BENDS. PROTECT INSTALLED TUBING FROM DAMAGE. INSTALL METAL PLATES WHERE TUBING PENETRATES FLOORS AT FACE OF STUDS. REMOTE MANIFOLD TYPE FITTINGS SHALL BE UTILIZED AT BRANCHES IN ROOMS WHERE TUBING IS TERMINATED (MODIFIED HOME-RUN INSTALLATION TYPE). UTILIZE EXPANDER TOOLS RECOMMENDED BY MANUFACTURER FOR CONNECTION OF TUBING TO FITTINGS. DO NOT OVER EXPAND TUBING. PIPE SHALL BE SUPPORTED AT FITTINGS AND FIXTURES AS RECOMMENDED BY MANUFACTURER. PIPING SHALL BE INSTALLED WITH MINIMUM AMOUNT OF FITTINGS. USE MANUFACTURER APPROVED VALVES, FITTINGS, HOSE BIBS AND BOXES AT FIXTURES.
- d. CONTROL VALVES SHALL BE MANUFACTURED BY OR APPROVED BY PIPING MANUFACTURER.
- c. ADJUST ALL STOPS AND VALVES PROPERLY PRIOR TO PROJECT COMPLETION.

6. BACKFLOW PREVENTION

- a. BACKFLOW PREVENTER TO BE INSTALLED IN HOT BOX OUTSIDE. REFER TO SITE UTILITY PLAN.
- b. BACKFLOW PREVENTERS FOR 2" AND SMALLER WATER SERVICES - PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON THE WATER SERVICE MAIN WHERE THE WATER SERVICE ENTERS THE BUILDING. REDUCED PRESSURE BACKFLOW PREVENTER TO BE EQUAL TO WATTS SERIES 1919Q10. APPROVED MANUFACTURERS OF EQUAL PRODUCTS SHALL BE CONbraco AND WILKINLY.

7. WATER HAMMER ARRESTORS/SHOCK ABSORBERS

- a. REMOVE SHOCK CONDITIONS FROM ALL PIPING. PROVIDE AND INSTALL WATER HAMMER ARRESTORS/SHOCK ABSORBERS ON ALL PIPING SERVING FLUSH WATER FIXTURES, CLOTHES WASHER SUPPLY BOXES, COMMERCIAL WASHER SUPPLY LINES, AND OTHER EQUIPMENT WITH QUICK-CLOSING VALVES. WATER HAMMER ARRESTORS SHALL BE PROVIDED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WII 201.

8. SANITARY AND VENT SYSTEMS

- a. PROVIDE NEW SANITARY LATERAL FROM BUILDING TO PUBLIC MAIN.
- b. EXTERIOR SANITARY PIPING:
 - i. EXTERIOR SANITARY PIPING OUTSIDE BUILDING TO BE PVC. ANSIASTM D 3033, TYPE PSP OR ASTM D 3034, TYPE PSM SDR-35.
 - ii. INTERIOR SANITARY, WASTE, AND VENT PIPING:
 - i. WHERE NOT INSTALLED IN A PLENUM, SANITARY, WASTE, AND VENT PIPING WITHIN BUILDING TO BE SCHEDULE 40 PVC PIPE AND FITTINGS CONFORMING TO ASTM D 2665, SOLID-WALL DRAIN PIPING WITH PVC SOCKET SOLVENT WELD FITTINGS CONFORMING TO ASTM D2665, MADE TO ASTM D3111, DRAIN, WASTE, AND VENT PATTERNS.
 - ii. WHERE PIPING SHALL BE INSTALLED IN A PLENUM, SANITARY, WASTE, AND VENT PIPING WITHIN BUILDING TO BE 3/4" IRON PIPE WITH NO-HUB COUPLINGS CONSISTING OF A STAINLESS STEEL SHEILD, CLAMP, AND NEOPRENE GASKET. COUPLINGS SHALL BE TESTED AND CERTIFIED TO CISPI 310, ASTM C1277, ASTM C564, AND NSF. IDEAL CLAMP PRODUCTS' HEAVY DUTY POW'R CONFORM (RED SHIELD) COUPLINGS ARE APPROVED AND ACCEPTABLE. THESE COUPLINGS ARE LISTED WITH NSF INTERNATIONAL AND CONFORM WITH ASTM C1540 PERFORMANCE REQUIREMENTS (SHEAR, DEFLECTION AND UNRESTRAINED THRUST TESTS).
 - iii. ABOVEGROUND SANITARY, WASTE, AND VENT PIPING WITH MECHANICAL CLOSETS (PLENUMS) TO BE NO-HUB, CAST-IRON PIPE CONFORMING TO ASTM A74, ASTM A888, AND CISPI 301. WITH NO-HUB COUPLINGS CONSISTING OF A STAINLESS STEEL SHIELD, CLAMP, AND NEOPRENE GASKET. COUPLINGS SHALL BE TESTED AND CERTIFIED TO CISPI 310, ASTM C1277, ASTM C564, AND NSF. IDEAL CLAMP PRODUCTS' HEAVY DUTY POW'R CONFORM (RED SHIELD) COUPLINGS ARE ALSO APPROVED AND ACCEPTABLE. THESE COUPLINGS ARE LISTED WITH NSF INTERNATIONAL AND CONFORM WITH ASTM C1540 PERFORMANCE REQUIREMENTS (SHEAR, DEFLECTION AND UNRESTRAINED THRUST TESTS).
- d. COORDINATE WITH LOCAL AUTHORITIES FOR DRAINAGE REQUIREMENTS FOR REMEDIATION AND/OR REPAIR OF EXISTING FLOOR DRAINS. PROVIDE PIPED DRAIN TO SANITARY IF REQUIRED BY LOCAL JURISDICTION.

9. TRAP SEAL PROTECTION

- a. TRAP SEALS SUBJECT TO EVAPORATION SHALL BE PROTECTED BY ONE OF THE METHODS BELOW, AS APPROVED BY THE LOCAL PLUMBING AUTHORITY HAVING JURISDICTION:
 - a. POTABLE WATER-SUPPLIED TRAP SEAL PRIMER VALVE - A POTABLE WATER-SUPPLIED TRAP SEAL PRIMER VALVE MUST SUPPLY WATER TO THE TRAP. WATER-SUPPLIED TRAP SEAL PRIMERS MUST CONFORM TO ASSE 1018. THE DISCHARGE PIPE FROM THE TRAP SEAL PRIMER MUST CONNECT TO THE TRAP ABOVE THE TRAP SEAL ON THE INLET SIDE OF THE TRAP.
 - b. BARRIER-TYPE TRAP SEAL PROTECTION DEVICE - A BARRIER-TYPE TRAP SEAL PROTECTION DEVICE MUST PROTECT THE TRAP SEAL FROM EVAPORATION. BARRIER-TYPE TRAP SEAL PROTECTION DEVICES MUST CONFORM TO ASTM F477. JOINTS SHALL BE DESIGNED TO CONFORM TO THE MANUFACTURER'S INSTRUCTIONS.

10. CLEANOUTS

- a. PROVIDE FLOOR AND WALL CLEANOUTS WHERE REQUIRED IN ALL SOIL, WASTE, DRAIN AND STORM PIPING. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED, WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS. THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

11. NATURAL GAS PIPING SYSTEMS

- a. PROVIDE NEW GAS SERVICE FROM THE PUBLIC MAIN TO THE BUILDING AND PROVIDE NEW METER SIZED FOR THE TOTAL CONNECTED LOAD. NEW SERVICE DELIVERY PRESSURE SHALL BE 7" W.C.
- b. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH WORK PROVIDED BY THE UTILITY COMPANY, INCLUDING TAP FEES, INSTALLATION COSTS, ROAD CUTS, AND BORES IF APPLICABLE.
- c. GAS SERVICE PIPING - ALL EXTERIOR GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE PLASTIC PIPE APPROVED BY THE LOCAL UTILITY COMPANY.
- d. INTERIOR GAS PIPING SHALL BE SCHEDULE 40 STEEL PIPE, ASTM A53.
 - i. PIPING 2" AND UNDER SHALL BE JOINED BY EITHER THREADED FITTINGS OR COLD PRESS MECHANICAL JOINT FITTINGS WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION. 2-1/2", 3", AND 4" PIPING CAN BE THREADED OR WELDED. PIPING LARGER THAN 4" SHALL BE WELDED.
 - MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN.
 - WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION, COLD PRESS MECHANICAL JOINT FITTINGS ARE ACCEPTABLE AND SHALL CONFORM TO MATERIAL REQUIREMENTS OF ASTM A420 OR ASME B16.3 AND PERFORMANCE CRITERIA ANSI LC-4 CSA 6.32. COLD PRESS MECHANICAL JOINT FITTINGS SHALL BE EQUAL TO VIEGA MEGA PRESS G, WITH INHER SEALING ELEMENTS FOR PRESS FITTINGS. SEALING ELEMENTS SHALL BE FACTORY INSTALLED OR AN ALTERNATIVE SUPPLIED BY FITTING MANUFACTURER. PRESS ENDS SHALL BE DESIGNED TO ASSURE LEAKAGE OF LIQUIDS AND/OR GASES FROM INSIDE THE SYSTEM FROM THE SEALING ELEMENT OF AN UN-PRESSED CONNECTION. THE FUNCTION OF THIS FEATURE IS TO PROVIDE THE INSTALLER QUICK AND EASY

IDENTIFICATION OF CONNECTIONS WHICH HAVE NOT BEEN PRESSED PRIOR TO PUTTING THE SYSTEM INTO OPERATION.

- WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M FOR BUTT WELDING AND SOCKET WELDING.
- f. PROVIDE GAS PIPING RUN-OUTS TO ALL GAS-FIRED EQUIPMENT. PIPING SHALL BE INSTALLED FULL-SIZE TO EACH UNITS GAS INLET CONNECTION, BURNER, REGULATOR, ETC. PROVIDE AND INSTALL GAS COCK AND MAKE FINAL CONNECTIONS TO EACH GAS-FIRED EQUIPMENT. EACH EQUIPMENT MUST INCLUDE A DRIP LEG AND SHUTOFF GAS COCK. COMPLY WITH ITEM MANUFACTURER'S INSTRUCTION. FOR CONNECTIONS TO GAS-FIRED ROOFTOP EQUIPMENT, INCLUDE THE ROOF PENETRATION AND INSTALL THE GAS PIPING THROUGH THE ROOF IN A LOCATION THAT HAS BEEN COORDINATED WITH THE MECHANICAL CONTRACTOR.

12. VALVES - GENERAL

- a. PLUMBING CONTRACTOR MUST PROVIDE VALVES AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH ISOLATED FIXTURE OR GROUP OF FIXTURES, AND EACH CONNECTION TO EQUIPMENT.
- b. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.
- 13. VALVES FOR DOMESTIC WATER
 - a. VALVES FOR DOMESTIC WATER MUST MEET THE REQUIREMENTS OF THE LEAD-FREE LAW 8.3874. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LEAD-FREE PRODUCTS AS MANDATED BY THE LAW AND AS REQUIRED AND INTERPRETED BY THE AUTHORITY HAVING JURISDICTION.
 - b. PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER.
 - c. GENERAL DUTY SHUT-OFF BALL VALVES
 - i. PROVIDE TWO-PIECE, FULL PORT, SILICON BRONZE BALL VALVES WITH THE CAPABILITY OF ACCEPTING EXTENDED OPERATING HANDLES (FOR INSULATED PIPING). VALVES SHALL BE NIBCO MODEL T/S/PC-595-Y-66-LF (NSF) OR EQUAL PRODUCT MANUFACTURED BY AMER, VALVE CO., CRANE, HAMMOND, MILWAUKEE, RED-WHITE VALVE CORPORATION, OR WATTS.
 - d. BALANCING VALVES
 - i. BALANCING VALVES SHALL BE EQUAL TO CIRCUITSOLVER THERMOSTATIC SELF-ACTUATING BALANCING VALVES WITH UNIONS, STRAINER, CHECK VALVE, THERMOMETER, AND TWO INTEGRATED BALL VALVES.
 - c. MASTER THERMOSTATIC MIXING VALVES
 - i. PROVIDE LEONARD TM-1520B-LF-DT-LF NEXT GENERATION HIGH LOW ASSEMBLY. VALVE SHALL BE LEAD-FREE AND LISTED TO ASSE 1017.
 - f. THERMOSTATIC MIXING VALVES
 - i. TEMPERED WATER SHALL BE DELIVERED FROM PUBLIC HAND-WASHING QUICK-CLOSING VALVES. WATER HAMMER ARRESTORS SHALL BE PROVIDED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WII 201.

14. ELEVATOR PIT SUMP PUMP

- i. ELEVATOR PUMP SYSTEM TO BE EQUAL TO TOPP INDUSTRIES #B22LE, 18" X 22" BASIN WITH PERFORATED STEEL COVER, AND ZOELLER 98 PUMP, 1/2 HP, 115 VOLT WITH 1/2" DISCHARGE, FLOAT VALVE, AND CHECK VALVE. AVAILABLE MANUFACTURERS INCLUDE ZOELLER, WELM PUMPS, LIBERTY PUMPS, ARMSTRONG, DAYTON, BARNES, OR GORMAN RUPP CO.
- 15. HANGERS & SUPPORTS
 - a. THE PLUMBING CONTRACTOR MUST FURNISH ALL PIPE SUPPORTS REQUIRED FOR THEIR WORK. ALL PIPING SHALL BE SUPPORTED PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. WHERE ALTERNATIVE PIPING MATERIALS ARE USED, HANGER SPACING CAN BE REDUCED AS RECOMMENDED BY THE MANUFACTURER AND WHERE ALLOWED BY CODE.

16. INSULATION

- a. PROVIDE THERMAL INSULATION ON ALL METALLIC DOMESTIC COLD WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN, PIPING WITH SELF-SEALING CLOSED CELL ELASTOMERIC FOAM. PROVIDE A CONTINUOUS VAPOUR TIGHT SEAL. INSULATION SHALL BE CONTINUOUS THRU ALL WALLS AND FLOORS. NFPA FIRE HAZARD RATING FOR INSULATION, ADHESIVES, SEALERS, AND COATINGS MUST NOT EXCEED 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED. UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY OR EMERGENCY CODES, THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:
 - i. PROVIDE 1" THICK ELASTOMERIC INSULATION ON HOT AND HOT WATER RETURN PIPING. PROVIDE 1/2" THICK ELASTOMERIC INSULATION ON METALLIC DOMESTIC COLD WATER PIPING.
 - b. PROVIDE INSULATION ON ALL PEX PIPING WHEN USED IN PLENUMS AND WHERE REQUIRED TO MAINTAIN THE REQUIRED FLAME AND SMOKE RATINGS. MOST PEX PIPING 3/4" AND SMALLER SHALL BE INSULATED TO MAINTAIN ITS PLENUM RATED PROPERTY IF 18" SEPARATION BETWEEN THE PIPING CANNOT BE PROVIDED.

17. INSULATION FOR HANDICAP ACCESSIBLE FIXTURES (WHERE NOT PROTECTED WITH A SHROUD)

- a. ALL HANDICAP LAVATORY P-TRAP AND ANGLE STOP ASSEMBLIES SHALL BE INSULATED WITH TRAP WRAP PROTECTIVE KIT MANUFACTURED BY PROFLO MODEL P200 SERIES OR EQUAL. PROVIDE OFFSET TRAPS FOR HANDICAP ACCESSIBLE FIXTURES WHERE REQUIRED. ABRASION RESISTANT, ANTI-MICROBIAL VINYL EXTERIOR COVER SHALL BE SMOOTH. FOR TRAPS, THE INSULATION MUST HAVE A CLEANOUT NUT CAP TO ALLOW SERVICE TO THE TRAP WITHOUT DISASSEMBLY. FOR STOPS, THE INSULATION MUST HAVE A LOCK LID THAT PREVENTS TAMPERING BUT ALLOWS ACCESS WITHOUT REMOVAL OF THE INSULATION. FASTENERS MUST REMAIN SUBSTANTIALLY OUT OF SIGHT. ACCEPTABLE MANUFACTURERS INCLUDE PROFLO, TRUEBRO, PLUMBERX, AND DEARBORN.

18. CONCRETE HOUSEKEEPING PADS

- a. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB ON 4" THICK CONCRETE HOUSEKEEPING PAD.

19. ESCUTCHEON PLATES

- a. INSTALL ONE-PIECE CHROME PLATED BRASS WALL PLATE EQUIPPED WITH SET SCREW AROUND ALL EXPOSED PIPE PASSING THROUGH WALLS IN FINISHED AREAS.

20. ACCESS PANELS

- a. LOCATE VALVES IN READILY ACCESSIBLE LOCATIONS. WHERE VALVES SHALL BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS, PROVIDE ACCESS PANELS. ACCESS PANELS SHALL BE PAINTABLE METAL. ACCESS PANEL ACCESS PANEL SIZES AND LOCATIONS WITH THE ARCHITECT.

21. FIRE STOPPING

- a. PROVIDE FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED SEPARATIONS PER LOCAL CODES & REGULATIONS & PER UL RECOMMENDATIONS FOR ASSEMBLIES ENCOUNTERED IN PROJECT.
- b. THE FIRE STOPPING MATERIAL MUST MEET THE INTEGRITY OF THE FIRE RATED AND FLOOR PENETRATION. THE FIRE STOPPING MATERIAL MUST BE ARCHITECT'S DRAWINGS FOR WALL, FLOOR, CEILING & ROOF FIRE RATINGS PRIOR TO BIDDING WORK.

22. FLASHING & COUNTERFLASHING

- a. PROVIDE ROOF FLASHING AND COUNTERFLASHING FOR ALL ROOF PENETRATIONS.
- b. OBTAIN APPROVAL FROM GENERAL CONTRACTOR, CONSTRUCTION MANAGER, OWNER AND/OR ROOFING CONTRACTOR PRIOR TO MAKING ANY PENETRATIONS SO THAT WARRANTIES ARE NOT COMPROMISED OR VOIDED.

23. CATHODIC PROTECTION

- a. PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR OTHER DISSIMILAR METAL IN STRUCTURE.

24. EXCAVATION, TRENCHING & BACKFILL

- a. DO ALL EXCAVATION, TRENCHING & BACKFILL REQUIRED FOR THE INSTALLATION OF PLUMBING WORK.
- b. ALL BACKFILL SHALL BE COMPACTED & BROUGHT TO FINISHED GRADE

AND MUST MATCH SURROUNDING CONDITIONS.

- c. RESTORE ALL DISTURBED FLOORING TO ORIGINAL CONDITION.
- d. ALL PIPING SHALL BE LAID ON A BED OF SAND, 6" THICK MINIMUM. BACKFILL UNDER BUILDING AND ALL DRIVES, ROADS AND WALKS WITH BANK-RUN GRAVEL.

25. CUTTING AND PATCHING

- a. CUT AND PATCH WALLS AND FLOORS TO MATCH BUILDING CONSTRUCTION WHERE REQUIRED TO INSTALL ALL PLUMBING.

26. CONNECTIONS

- a. INSTALL UNIONS AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS.

27. INSTALLATION

- a. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, CONCRETE FLOOR, AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.

28. TESTING

- a. ALL PLUMBING WORK SHALL BE TESTED & APPROVED BY INSPECTOR PRIOR TO BEING BACKFILLED, CONCEALED & PUT INTO SERVICE. AFTER TESTING IS COMPLETE & APPROVED, THE PLUMBING CONTRACTOR MUST DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO OWNER FOR REVIEW AND APPROVAL.

29. SHOP DRAWINGS

- a. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
- b. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE PLUMBING CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR THEIR REVIEW & APPROVAL.
- c. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE PLUMBING CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.

30. OWNER'S INSTRUCTIONS

- a. PROVIDE TWO SETS OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS WITH DRAWINGS, TYPEWRITTEN INSTRUCTIONS AND OPERATING SEQUENCES AND DESCRIPTIVE DATA SHEETS, ASSEMBLE EACH SET IN A HARD-BOUND COVER.

31. WARRANTY

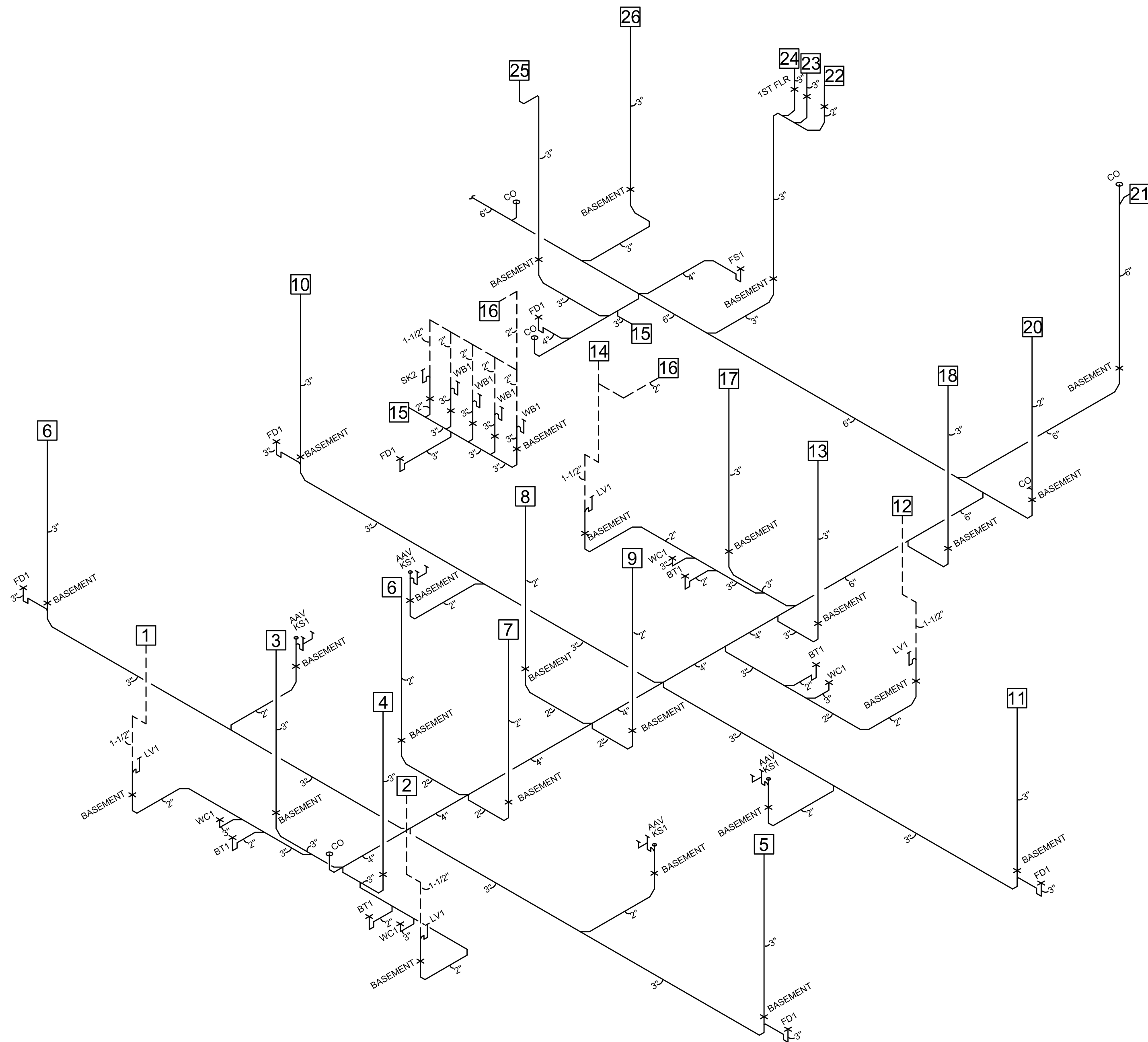
- a. THE PLUMBING CONTRACTOR MUST UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER AND THE PLUMBING CONTRACTOR WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE TO THE OWNER.
- b. RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP.

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
--- S ---	SANITARY WASTE PIPING
--- V ---	VENT PIPING
--- CW ---	COLD WATER PIPING
--- HW ---	HOT WATER PIPING
--- HWR ---	HOT WATER RETURN PIPING
--- G ---	NATURAL GAS PIPING
--- ST ---	STORM PIPING
FD ●	FLOOR DRAIN
●	BALL VALVE
✓	CHECK VALVE
⊕	BALANCING VALVE
⊕	GAS REGULATOR
CO ○	CLEANOUT
WH H	FROST PROOF WALL HYDRANT
HB H	HOSE BIBB
⊕	VENT THROUGH ROOF RISER INDICATOR
⊕	HOT WATER RETURN PUMP

PLUMBING EQUIPMENT AND FIXTURE SCHEDULE

FD1 - FLOOR DRAIN, EQUAL TO SIOUX CHIEF MODEL 842-P WITH NICKEL BRONZE ADJUSTABLE STRAINER. PROVIDE TRAP PRIMERS WHERE REQUIRED BY CODE. REFER TO WASTE AND VENT ISOMETRIC FOR SIZES.
WB1 - WASHER BOX, EQUAL TO OATEY CENTRO, IN WALL WASHER SUPPLY / DRAIN BOX FOR CLOTHES WASHER.
SK1 - SINK, EQUAL TO ELKAY MODEL LRAD022194S ONE COMPARTMENT STAINLESS STEEL SELF-RIMMING 18 GAUGE WITH 4-1/2" DEEP BOWL, 3-HOLE WITH LK024378 FAUCET WITH LK-99 CRUMB CUP STRAINER AND DRAIN. PROVIDE WITH 1-1/2 17-GAGE "P" TRAP AND 1/2" HOT AND COLD WATER STOPS. CENTERLINE OF THE DRAIN SHALL BE LOCATED 5" FROM FAUCET SIDE OF BOWL, CENTERED.
SK2 - SINK, EQUAL TO FIAT LAUNDRY TUB, P-1, WITH A1000 FAUCET.
GDWH1 - GAS FIRED DOMESTIC WATER HEATER, EQUAL TO A.O. SMITH B7H-199, 100 GALLON, 199 CFH, PROVIDE 6.4 GALLON ST-12C AMTRLO EXPANSION TANK.
CP1 - HOT WATER CIRCULATION PUMP, EQUAL TO BELL AND GOSSETT SERIES 100, 1/2 HP, 1 PHASE, 115V, 1.75 F.L. AMPS WITH THER KIT COORDINATED WITH OWNERS OPERATION HOURS. PLUMBING CONTRACTOR SHALL PROVIDE ALL SHUT-OFF, CHECK AND BALANCING VALVES AS NECESSARY.
ESP1 - ELEVATOR SUMP PUMP, REFER TO PLUMBING SPECIFICATIONS
LV1 - LAVATORY SINK, WITH INTEGRAL BOWL AND CLEVELAND CA47711L FAUCET
WC1 - WATER CLOSET, TANK TYPE, EQUAL TO MANSFIELD 384-3386 DUAL FLUSH, VITREOUS CHINA, WHITE, ELONGATED BOWL.
BT1 - BATHTUB, EQUAL TO STERLING 1104121110, WITH SYMMONS S-96-300-B30-LV FAUCET, WATERSENE LABEL. PROVIDE FIBERGLASS WALL SURROUND.
KS1 - KITCHEN SINK, EQUAL TO ELKAY K23319 COUNTERTOP SINK, WITH PROFLO PFXC4111CP FAUCET.
AAV - AIR ADMITTANCE VALVE, EQUAL TO OATEY 6 DFU SEURE VENT AIR ADMITTANCE VALVE WITH TUBULAR ADAPTER, RATED FOR 6 DFUS FOR VENTING DWV 2" AND SMALLER.
SH1 - 63" POLYRESIN / FIBERGLASS ROLL-IN ICC ANSI A117.1 COMPLIANT SHOWER BASE & WALL SURROUND (STERLING #0C-5-63, SERIES #6206 OR EQUAL PROVIDING MIN. 30"x60" CLEAR), GRAB BARS, AND FOLDING SEAT. PROVIDE ADA COMPLIANT SHOWER AND FIBERGLASS WALL SURROUND. REFER TO ARCHITECTURAL SHEET A301.
WH1 - WALL HYDRANT, EQUAL TO WOODGRO MODEL B-67-3/4" PROVIDE FROST-PROOF EXTERIOR WALL HYDRANTS WITH HOSE-TEE KEYS ON EACH ELEVATION OF BUILDING. WALL HYDRANTS SHALL BE WALL HYDRANT WITH CHROME FINISH ON BRASS CASTING WITH

2A - Project: Brachman 1000A 10041 - Veterans - The Geiger House for Veterans - Client: OIA - Construction Documents 10041-0201 - Plumbing Details - EBS - PR - Date/Rev: Apr 13, 2023 - 2023 - By: 464/edment
 THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTUAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.



1
PLUMBING BASEMENT ISOMETRIC
 P301 NOT TO SCALE



ISSUANCES	
DATE	DESCRIPTION
01/18/2023	60% OMPA Review
04/13/2023	PERMIT SET

**Geiger House for Veterans / Klekamp
 Family Residences**
 2631 GILBERT AVE.
 CINCINNATI, OH

PR - 10041

**ENGINEERED
 BUILDING
 SYSTEMS INC.**

Shared Success Through
 Collaboration and Efficiency
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DRAWN BY DSD	CHECKED BY SSS
PROJECT NO.: 10041	
SCALE: AS NOTED	
DATE: 04-13-2023	
DRAWING TITLE PLUMBING DETAILS, SCHEDULES, AND ISOMETRIC	
SHEET NO. P301	

7A - Project Description: 10004 - 10041 - 1004 - The Geiger House for Veterans - Client: OVA - Construction Documents: 10041 - M101 - MECHANICAL FIRST FLOOR PLAN - EBS - Rev. 04/13/2023 - B1 - 10/26/2023
 THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING. THE INSTALLING CONTRACTOR ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.



SYMBOLS LEGEND - HVAC	
	THERMOSTAT
	CEILING DIFFUSER
	SIDE WALL GRILL
	RETURN WALL GRILL
	AIR FLOW DIRECTION
	DUCTWORK
	TYPICAL SUPPLY DUCT DN
	TYPICAL RETURN DUCT DN
	TYPICAL EXHAUST DUCT
	TURNING VANES
	FLEXIBLE DUCT, 8'-0" LONG MAX.
	TYPICAL ROUND DUCT DN
	ROUND DUCT UP
	1.5 HR FIRE DAMPER
	MVD MANUAL VOLUME DAMPER
	MOD MOTOR OPERATED DAMPER
	DROPPED CEILING/SOFFIT

- ### KEYED SHEET NOTES
- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8" PER FOOT AWAY FROM UNIT.
 - PROVIDE OVERFLOW SWITCH THAT WILL SHUT OFF THE UNIT ON HIGH WATER LEVEL.
 - ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURERS RECOMMENDATIONS.
 - ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
 - 3" FROM PROPERTY LINE.
 - 3' FROM OPERABLE OPENINGS INTO BUILDING.
 - 10' FROM MECHANICAL AIR INTAKE
 - FRESH AIR INTAKE THRU WALL TO WALL HOODED VENT EQUAL TO FAMCO SWVP.
 - REFER TO OVERALL BUILDING LAYOUT FOR EXHAUST PENETRATIONS.
 - REFER TO OVERALL BUILDING LAYOUT FOR FRESH AIR PENETRATIONS.
 - UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN AIR.
 - DUCTED RETURN SLEEVE BETWEEN TO AVOID EXPOSED WALL CAVITY.
 - N/A
 - PROVIDE AND INSTALL CO2 SENSOR IN RETURN DUCTWORK. SET OUTSIDE AIR FLOW TO 10% OF THE TOTAL AIRFLOW OF THE SYSTEM. WHEN CO2 LEVELS RISE ABOVE 1000 PPM IN THE SPACE MOTOR OPERATED DAMPER SHALL ADJUST TO ALLOW THE OUTSIDE AIRFLOW LISTED IN THE VENTILATION SCHEDULE. MOTOR OPERATED DAMPER TO CLOSE WHEN UNIT IS NOT OPERATIONAL.
 - RE-CIRCULATING EXHAUST PROVIDED PER OMC 505.1 EXCEPTION 2. ADDITIONAL EXHAUST FAN IS PROVIDED PER LEED REQUIREMENTS.
 - PROVIDE GRAVITY DAMPER IN DRYER MUA BRANCH DUCTS. GRAVITY DAMPER TO OPEN WHEN DRYERS ARE RUNNING AND SPACE BECOMES NEGATIVE. DRYER MAKE UP AIR TO BE ROUTED BEHIND DRYERS DOWN TO GROUND LEVEL.
 - COORDINATE MINI-SPLIT LOCATION WITH ELEVATOR EQUIPMENT AND LIGHTING LAYOUT.
 - FIRE DAMPERS NOT REQUIRED PER OMC 607.5.3. EXCEPTION - SUCH WALLS ARE PENETRATED BY DUCTED HVAC SYSTEMS. HAVE A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS AND ARE IN AREAS IN OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGH OUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.2.1.1 OR 903.3.1.2 OF BUILDING CODE. SHALL BE CONSTRUCTED OF SHEET STEEL, NO LESS THAN NO. 28 GAGE THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC TO RESIDENTIAL AND COMMON SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

CODES & STANDARDS REFERENCED

- 2017 OHIO MECHANICAL CODE
- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010
- LEED BD+C: HOMES AND MULTIFAMILY LOWRISE v4 - LEED v4

HVAC DESIGN CONDITIONS

COMMERCIAL		RESIDENTIAL	
COOLING OUTDOOR: 93 DB / 75 WB	HEATING OUTDOOR: 0 DB	COOLING OUTDOOR: 93 DB / 75 WB	HEATING OUTDOOR: 0 DB
INDOOR: 74	INDOOR: 72	INDOOR: 75	INDOOR: 70

- ### GENERAL NOTES
- FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL SHEETS.
 - COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.
 - COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.
 - INSTALL ALL EQUIPMENT PER MANUFACTURERS REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.
 - REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.
 - PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
 - ROUTE ALL AIR CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. PROVIDE MINIMUM SLOPE OF 1/8" PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.
 - PROVIDE AN APPROVED THROUGH PENETRATION FIRESTOP FOR ALL PIPING INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. FIRESTOP SHALL HAVE A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCHES OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL OR FLOOR PENETRATED.
 - ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.
 - THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
 - EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
 - DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER.
 - DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
 - DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN 1/4" INTO THE INSIDE OF THE DUCT.
 - PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
 - TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 8 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
 - PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER.
 - PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYERPLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90° LABEL/TAG MUST BE WITHIN 6" OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-6" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.
 - MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
 - THERMOSTAT TO BE MOUNTED 48" ABOVE FINISHED FLOOR IN ADA UNITS/SENSORY UNITS.

ISSUANCES

DATE	NO.	DESCRIPTION
01/18/2023		60% OCHA Review
04/13/2023		PERMIT SET

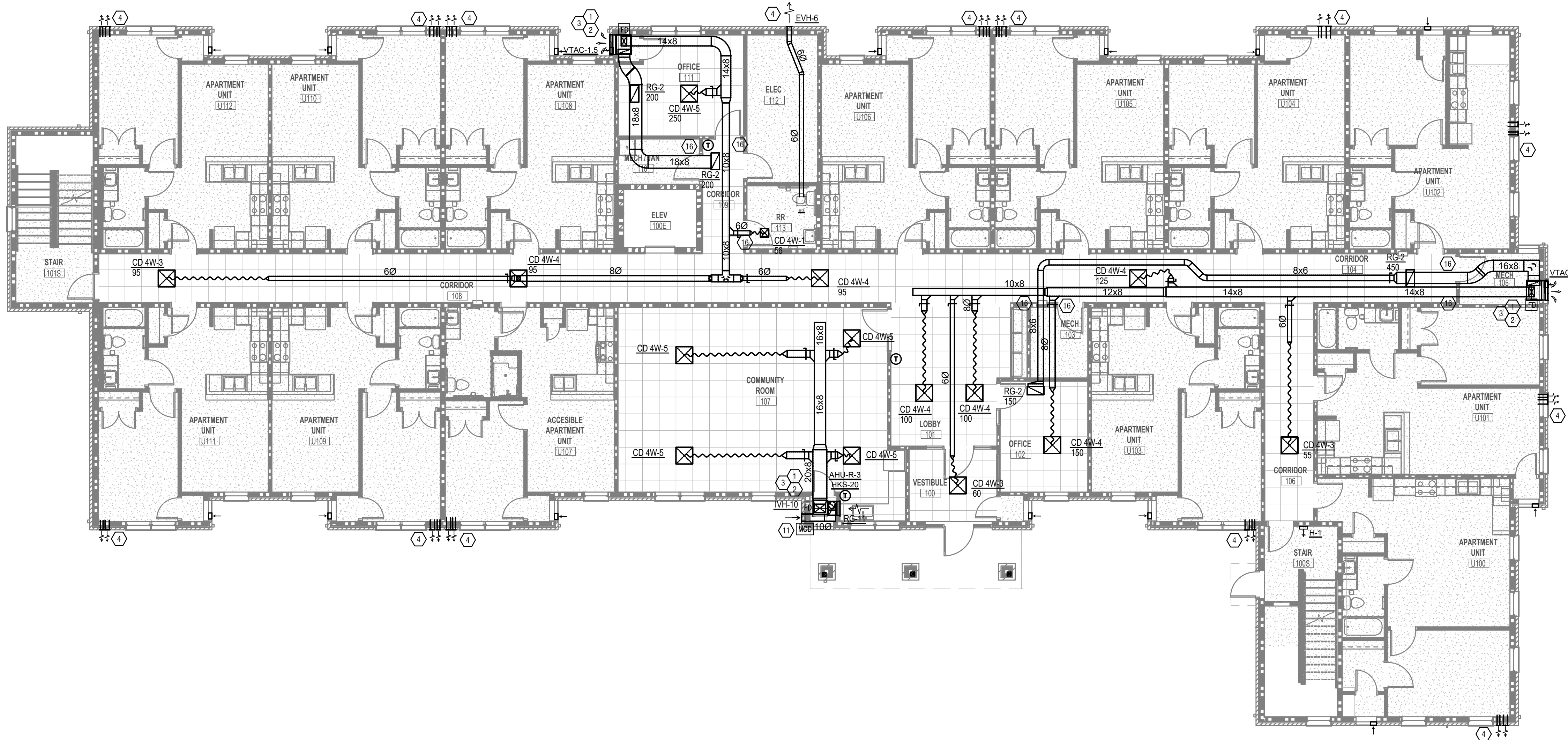
Geiger House for Veterans / Klekamp Family Residences
 2631 GILBERT AVE.
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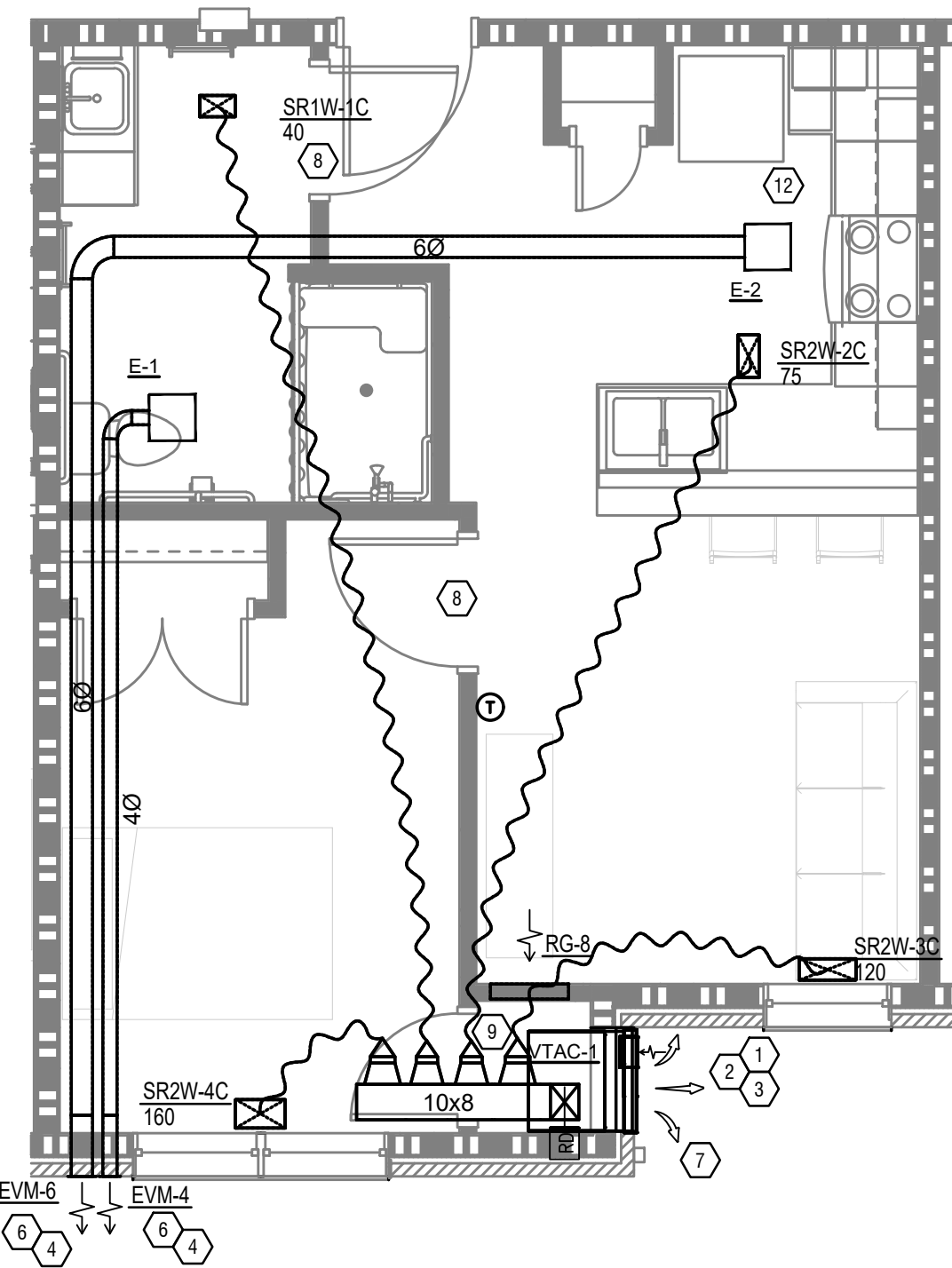
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DRAWN BY RPG	CHECKED BY SSS
PROJECT NO.: 10041	
SCALE: AS NOTED	
DATE: 04-13-2023	
DRAWING TITLE MECHANICAL FIRST FLOOR PLAN	
SHEET NO. M101	

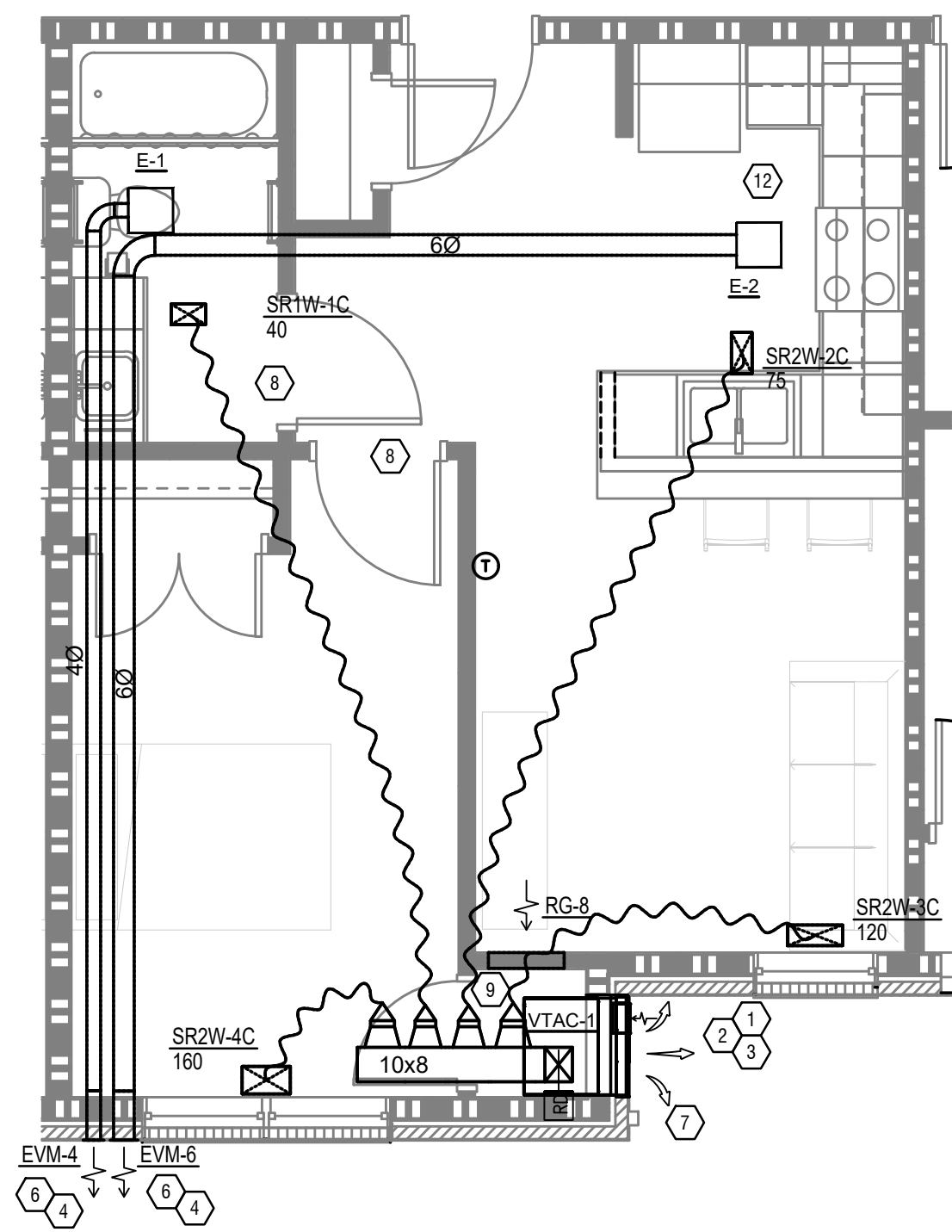


MECHANICAL FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"

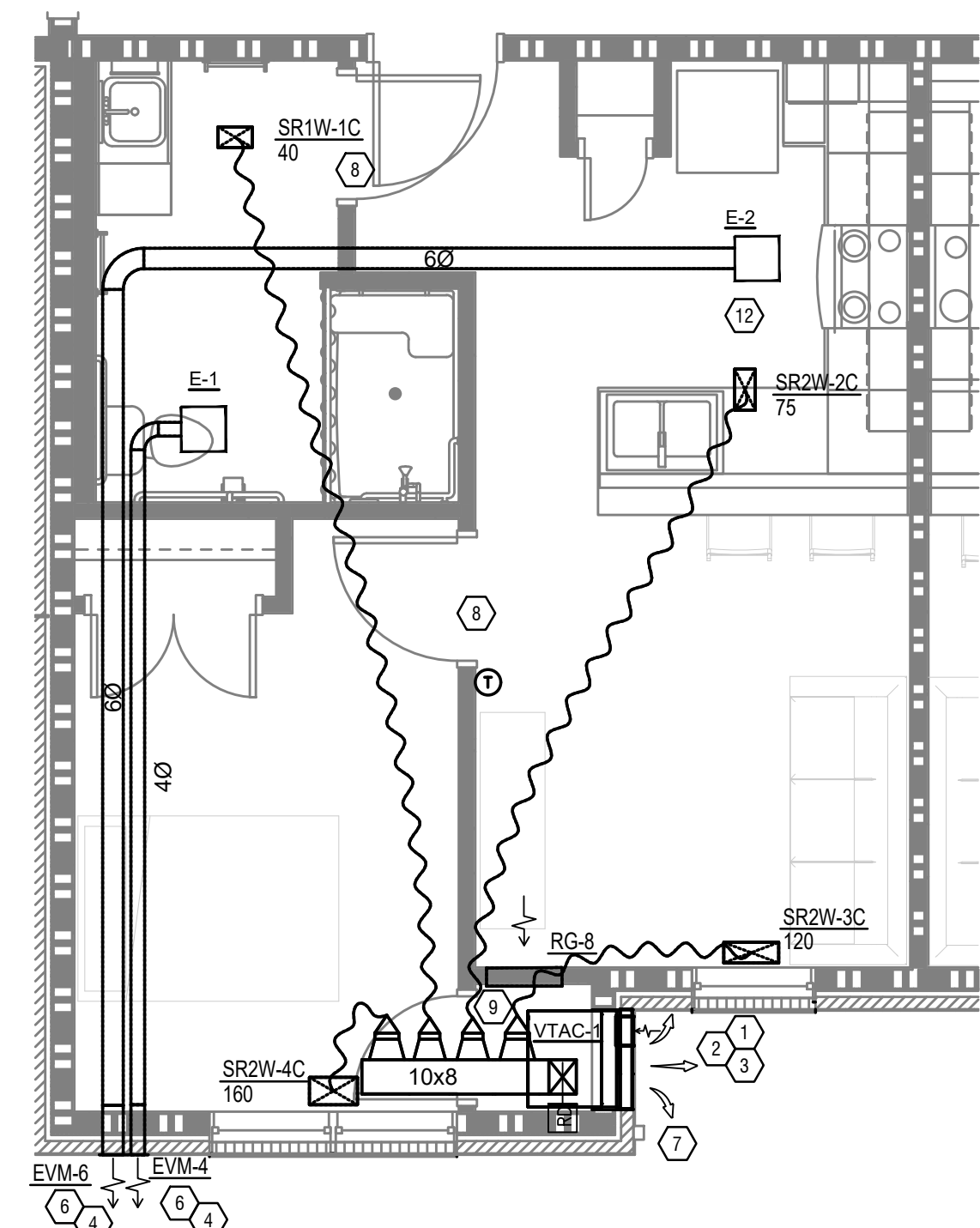
2A-Project: 1000A-1000A 1004 - The Geiger House for Veterans - Consultant: OMA - Construction Documents 1004-1000-MECHANICAL-ENLARGED-UNIT-PLANS-4-13-2023-12:53pm - E-1-1000-
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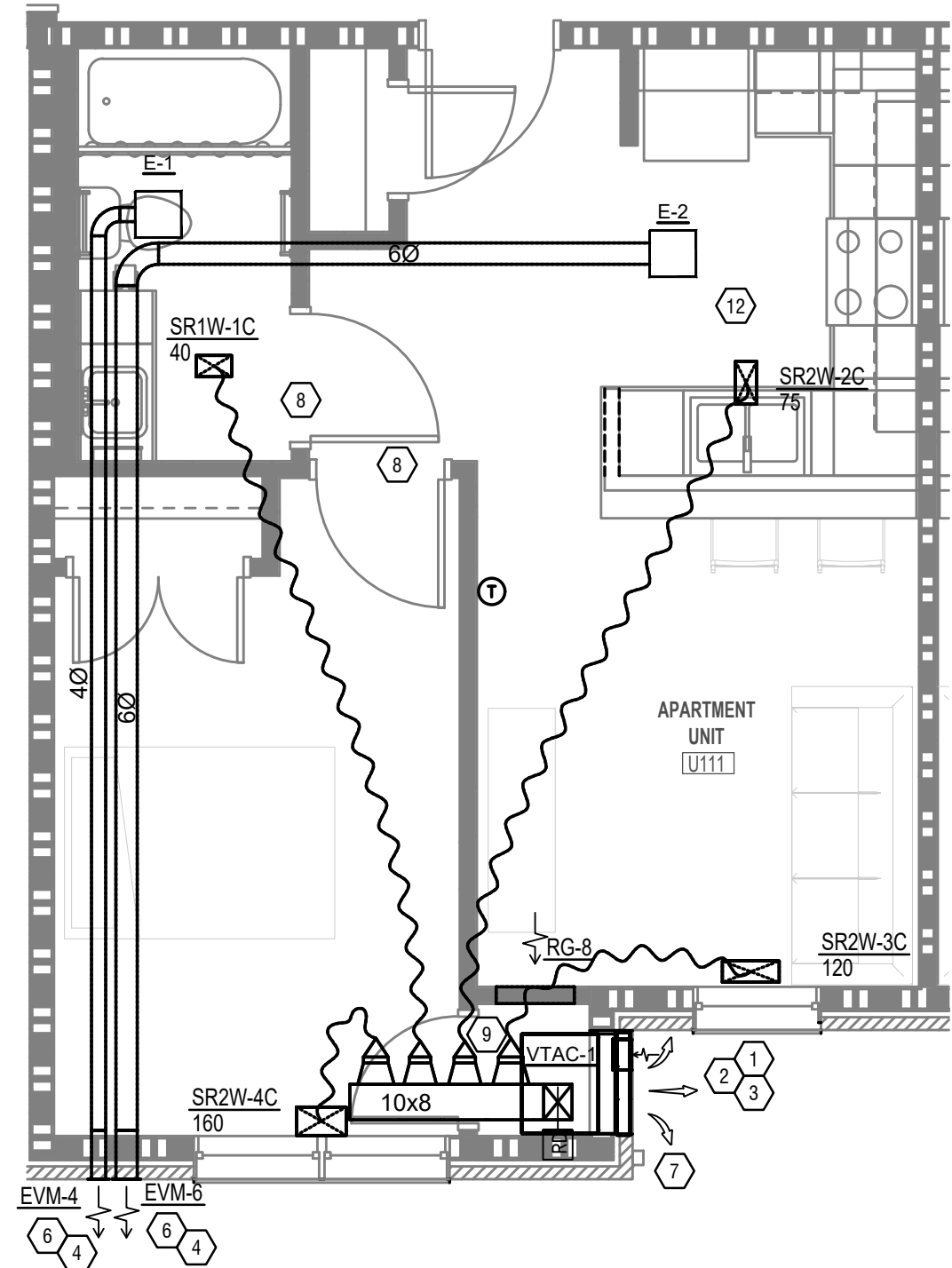
1 ONE BEDROOM ACCESSIBLE - U107, U307
M200 SCALE: 1/4" = 1'-0"



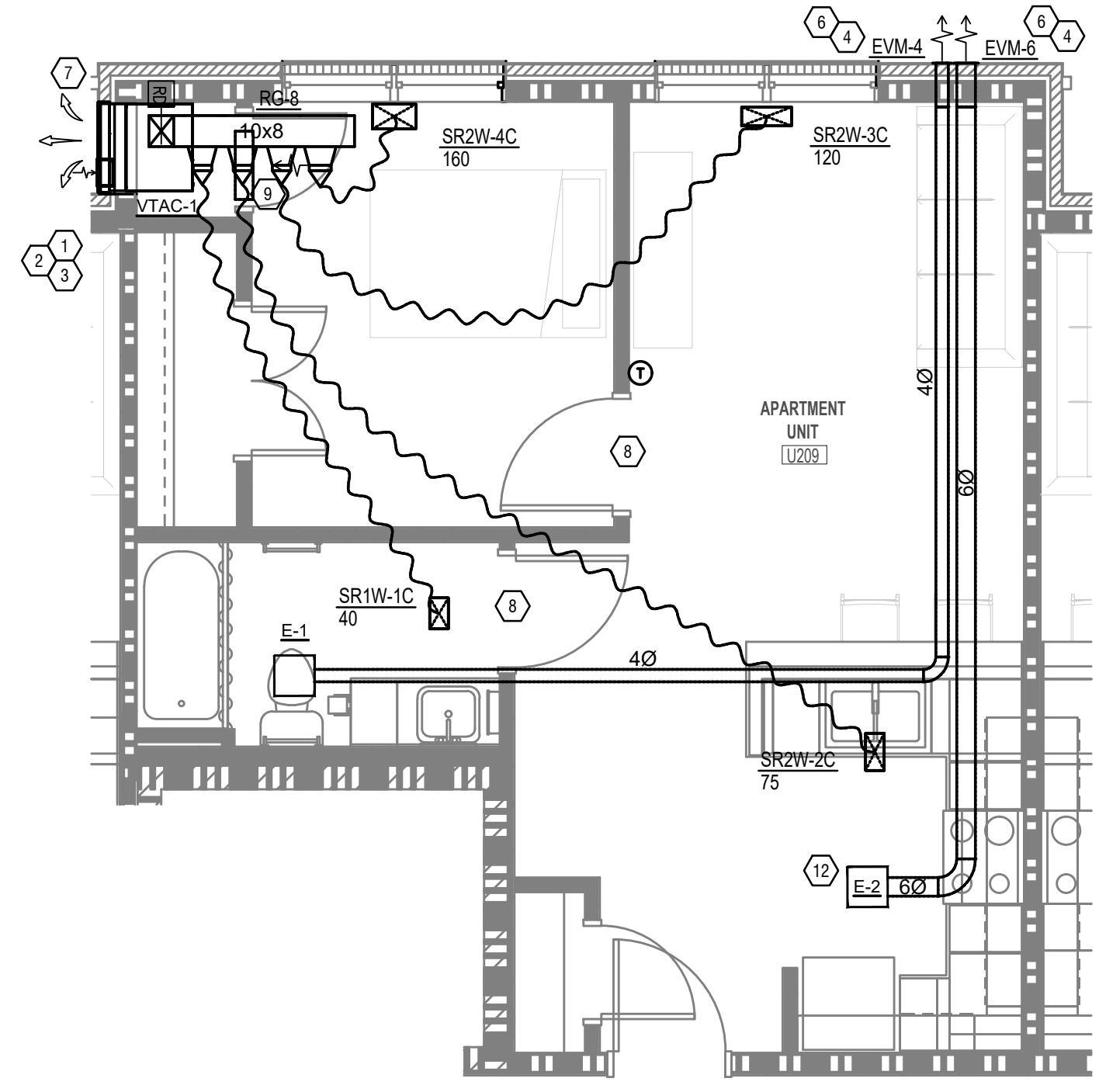
2 TYP ONE BEDROOM
M200 SCALE: 1/4" = 1'-0"



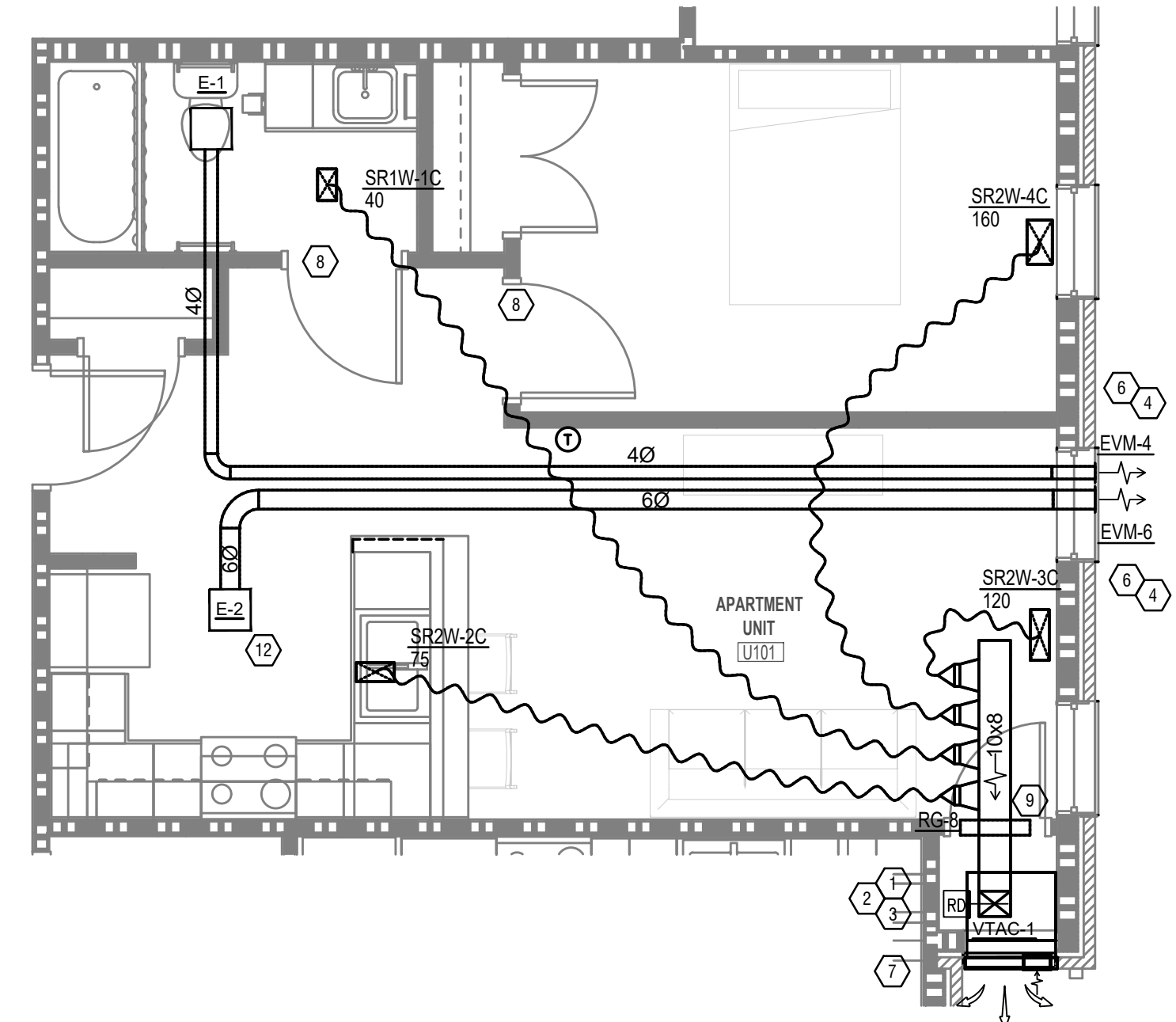
3 ONE BEDROOM ACCESSIBLE - U215
M200 SCALE: 1/4" = 1'-0"



4 ONE BEDROOM - U001, U002, U111, U214, U314 & U315
M200 SCALE: 1/4" = 1'-0"



5 ONE BEDROOM - U209, U309
M200 SCALE: 1/4" = 1'-0"



6 ONE BEDROOM - U101, U201, U301
M200 SCALE: 1/4" = 1'-0"

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

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HVAC DESIGN CONDITIONS

COMMERCIAL		RESIDENTIAL	
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INDOOR: 74	INDOOR: 72	INDOOR: 75	INDOOR: 70

- KEYED SHEET NOTES**
- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8" PER FOOT AWAY FROM UNIT.
 - PROVIDE OVERFLOW SWITCH THAT WILL SHUT OFF THE UNIT ON HIGH WATER LEVEL.
 - ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
 - ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
 - 3' FROM PROPERTY LINE.
 - 3' FROM OPERABLE OPENINGS INTO BUILDING.
 - 10' FROM MECHANICAL AIR INTAKE.
 - FRESH AIR INTAKE THRU WALL TO WALL HOODED VENT EQUAL TO FAMCO SWVP.
 - REFER TO OVERALL BUILDING LAYOUT FOR EXHAUST PENETRATIONS.
 - REFER TO OVERALL BUILDING LAYOUT FOR FRESH AIR PENETRATIONS.
 - UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN AIR.
 - DUCTED RETURN SLEEVE BETWEEN TO AVOID EXPOSED WALLCAVITY.
 - N/A
 - PROVIDE AND INSTALL CO2 SENSOR IN RETURN DUCTWORK. SET OUTSIDE AIR FLOW TO 10% OF THE TOTAL AIRFLOW OF THE SYSTEM. WHEN CO2 LEVELS RISE ABOVE 1000 PPM IN THE SPACE MOTOR OPERATED DAMPER SHALL ADJUST TO ALLOW THE OUTSIDE AIRFLOW LISTED IN THE VENTILATION SCHEDULE. MOTOR OPERATED DAMPER TO CLOSE WHEN UNIT IS NOT OPERATIONAL.
 - RECIRCULATING EXHAUST PROVIDED PER OMC 505.1 EXCEPTION 2. ADDITIONAL EXHAUST FAN IS PROVIDED PER LEED REQUIREMENTS.
 - PROVIDE GRAVITY DAMPER IN DRYER RUA BRANCH DUCTS. GRAVITY DAMPER TO OPEN WHEN DRYERS ARE RUNNING AND SPACE BECOMES NEGATIVE.
 - DRYER MAKE UP AIR TO BE ROUTED BEHIND DRYERS DOWN TO GROUND LEVEL.
 - COORDINATE MINI-SPLIT LOCATION WITH ELEVATOR EQUIPMENT AND LIGHTING LAYOUT.
 - FIRE DAMPERS NOT REQUIRED PER OMC 607.5.3
 - EXCEPTION 4-SUCH WALLS ARE PENETRATED BY DUCTED HVAC SYSTEMS HAVE A REQUIRED FIRE-RESISTANCE RATINGS OF 1 HOUR OR LESS AND ARE IN AREAS IN OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THOUGHT OUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 OF BUILDING CODE. SHALL BE CONSTRUCTED OF SHEET STEEL, NO LESS THAN NO. 26 GAGE THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

SYMBOLS LEGEND - HVAC

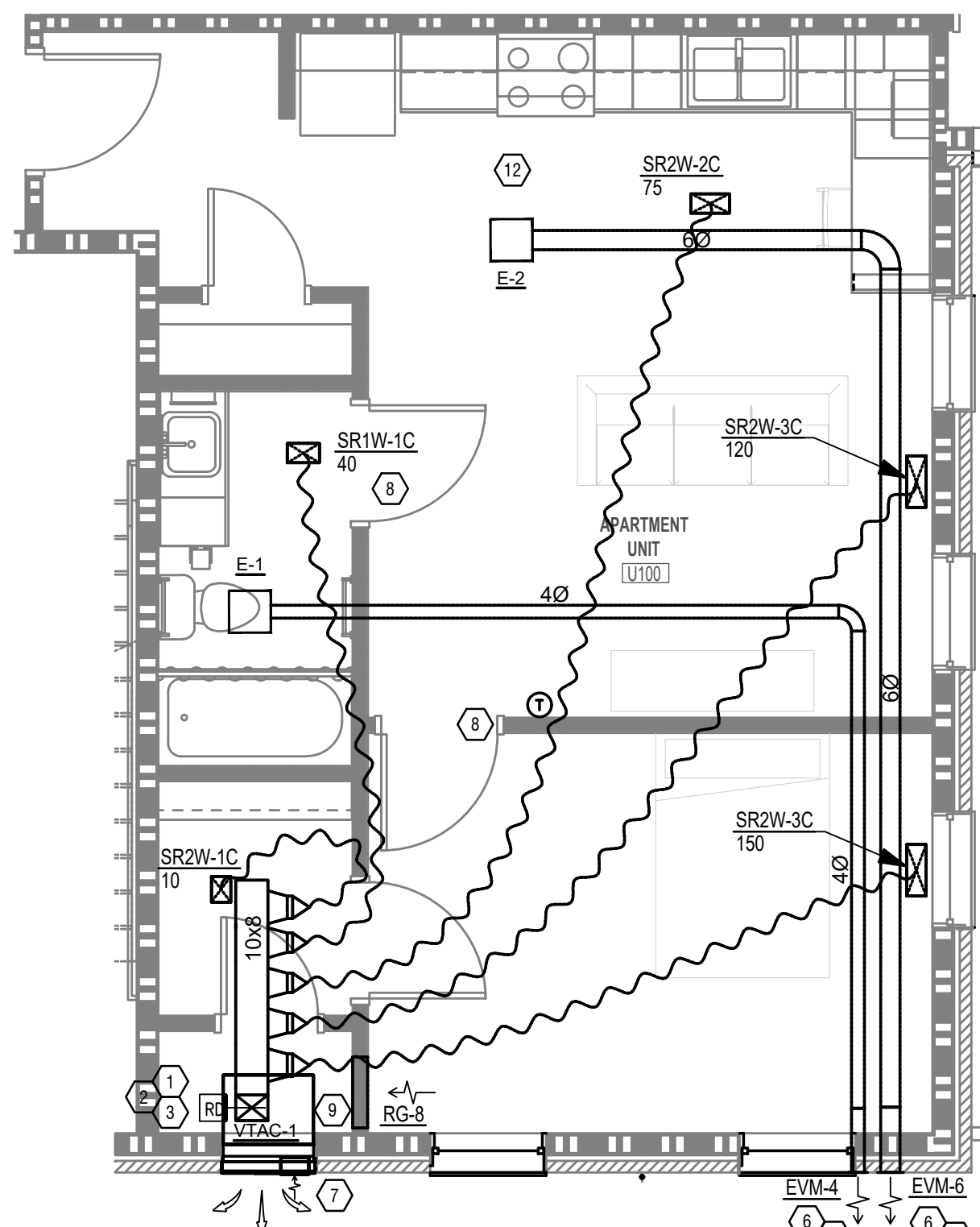
⊖	THERMOSTAT
⊠	CEILING DIFFUSER
→	SIDE WALL GRILL
←	RETURN WALL GRILL
↔	AIR FLOW DIRECTION
14x10	DUCTWORK
⊠	TYPICAL SUPPLY DUCT DN
⊠	TYPICAL RETURN DUCT DN
⊠	TYPICAL EXHAUST DUCT
⊠	TURNING VANES
⊠	FLEXIBLE DUCT, 8'-0" LONG MAX.
⊠	TYPICAL ROUND DUCT DN
⊠	ROUND DUCT UP
FD	1.5 HR FIRE DAMPER
MVD	MVD MANUAL VOLUME DAMPER
MOD	MOD MOTOR OPERATED DAMPER
⊠	DROPPED CEILING/SOFFIT

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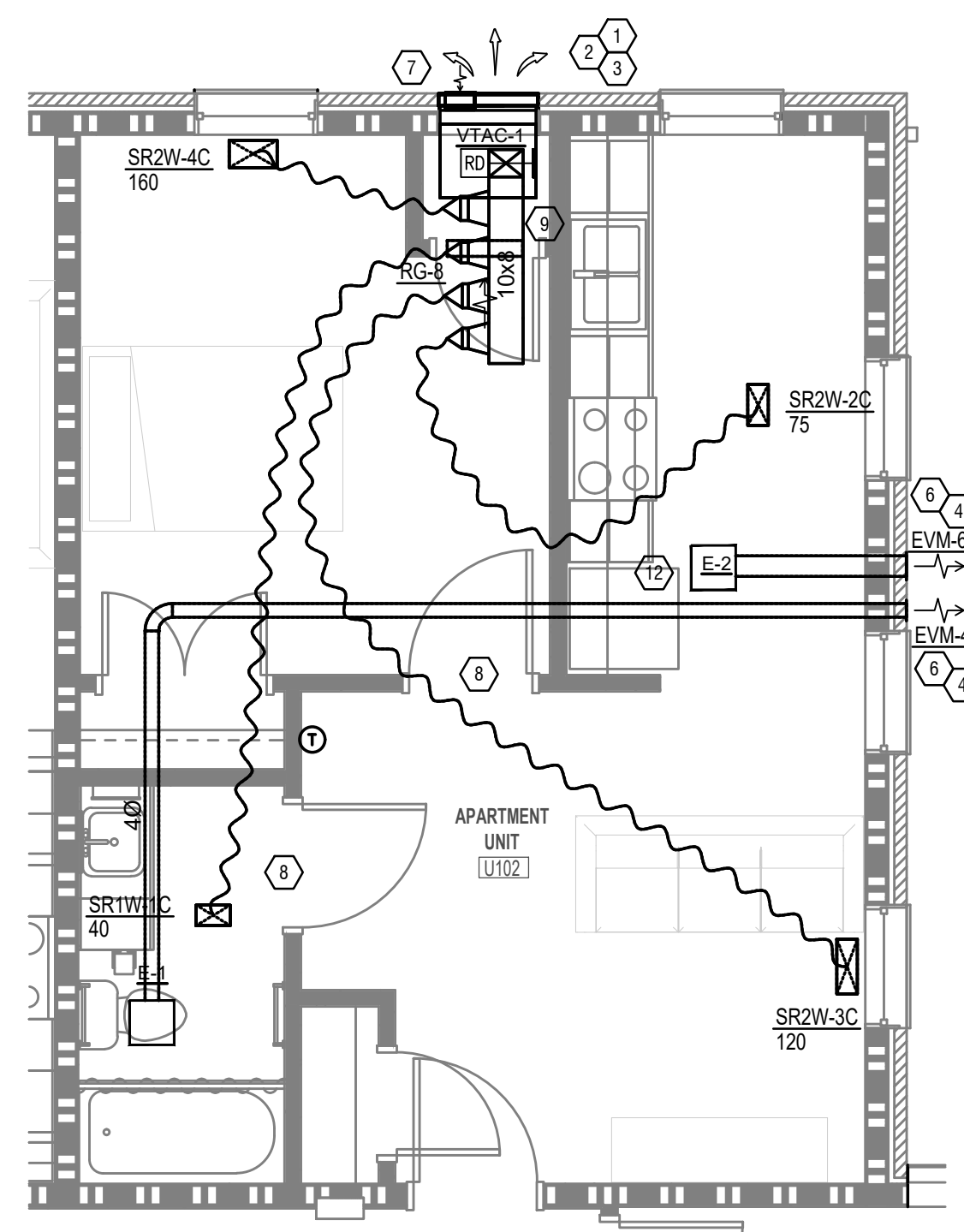
PR - 10041
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DRAWN BY: RPG
 CHECKED BY: SSS
 PROJECT NO.: 10041
 SCALE: AS NOTED
 DATE: 04-13-2023
 DRAWING TITLE: MECHANICAL ENLARGED UNIT PLANS
 SHEET NO.: M200

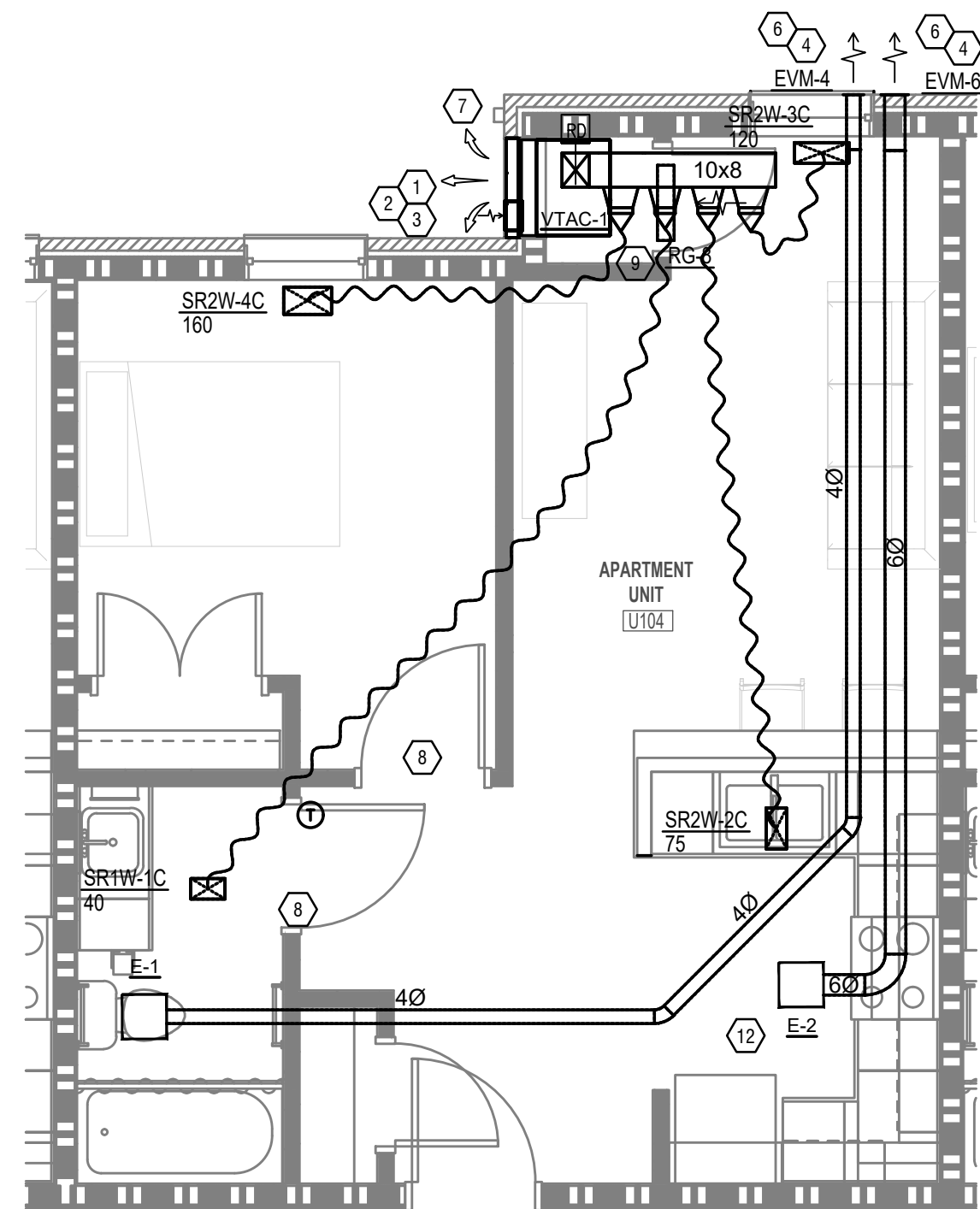
2A - Project Description: 1000A 1004 - The Geiger House for Veterans - Consultant: EBS - Mechanical Drawings - Unit Plans - 4th Flr. Date: Apr. 13, 2023, 12:55pm. E-1: 1/4" = 1'-0". THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTUAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.



1
M201 ONE BEDROOM - U100, U200, U300
 SCALE: 1/4" = 1'-0"



1
M201 ONE BEDROOM - U102, U202, U302
 SCALE: 1/4" = 1'-0"



2
M201 ONE BEDROOM - U104, U204, U304
 SCALE: 1/4" = 1'-0"

SYMBOLS LEGEND - HVAC

⊖	THERMOSTAT
⊠	CEILING DIFFUSER
→	SIDE WALL GRILL
←	RETURN WALL GRILL
↔	AIR FLOW DIRECTION
14x10	DUCTWORK
⊠	TYPICAL SUPPLY DUCT DN
⊠	TYPICAL RETURN DUCT DN
⊠	TYPICAL EXHAUST DUCT
⊠	TURNING VANES
⊠	FLEXIBLE DUCT, 8'-0" LONG MAX.
⊠	TYPICAL ROUND DUCT DN
⊠	ROUND DUCT UP
⊠	1.5 HR FIRE DAMPER
⊠	MOD MOTOR OPERATED DAMPER
⊠	DROPPED CEILING/SOFFIT

KEYED SHEET NOTES

- ROUTE 3/4" CONDENSATE DRAIN LINE TO FLOOR DRAIN IN MECHANICAL CLOSET. SLOPE PIPE A MINIMUM OF 1/8" PER FOOT AWAY FROM UNIT.
- PROVIDE OVERFLOW SWITCH THAT WILL SHUT OFF THE UNIT ON HIGH WATER LEVEL.
- ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURERS RECOMMENDATIONS.
- ROUTE EXHAUST TO EXTERIOR WALL. INSTALL A LOUVERED VENT. SEE ARCHITECT BEFORE PENETRATION FOR EXACT LOCATION AND COLOR COORDINATION. ALL EXHAUST SHALL MEET THE FOLLOWING REQUIREMENTS.
 - 3" FROM PROPERTY LINE.
 - 3' FROM OPERABLE OPENINGS INTO BUILDING.
 - 10' FROM MECHANICAL AIR INTAKE
- FRESH AIR INTAKE THRU WALL TO WALL HOODED VENT EQUAL TO FAMCO SWVP.
- REFER TO OVERALL BUILDING LAYOUT FOR EXHAUST PENETRATIONS.
- REFER TO OVERALL BUILDING LAYOUT FOR FRESH AIR PENETRATIONS.
- UNDERCUT DOOR 1" ABOVE FINISHED FLOOR FOR RETURN AIR.
- DUCTED RETURN SLEEVE BETWEEN TO AVOID EXPOSED WALL CAVITY.
- N/A
- PROVIDE AND INSTALL CO2 SENSOR IN RETURN DUCTWORK. SET OUTSIDE AIR FLOW TO 10% OF THE TOTAL AIRFLOW OF THE SYSTEM. WHEN CO2 LEVELS RISE ABOVE 1000 PPM IN THE SPACE MOTOR OPERATED DAMPER SHALL ADJUST TO ALLOW THE OUTSIDE AIRFLOW LISTED IN THE VENTILATION SCHEDULE. MOTOR OPERATED DAMPER TO CLOSE WHEN UNIT IS NOT OPERATIONAL.
- RECIRCULATING EXHAUST PROVIDED PER OMC 505.1 EXCEPTION 2. ADDITIONAL EXHAUST FAN IS PROVIDED PER LEED REQUIREMENTS.
- PROVIDE GRAVITY DAMPER IN DRYER MUA BRANCH DUCTS. GRAVITY DAMPER TO OPEN WHEN DRYERS ARE RUNNING AND SPACE BECOMES NEGATIVE.
- DRYER MAKE UP AIR TO BE ROUTED BEHIND DRYERS DOWN TO GROUND LEVEL.
- COORDINATE MINI-SPLIT LOCATION WITH ELEVATOR EQUIPMENT AND LIGHTING LAYOUT.
- FIRE DAMPERS NOT REQUIRED PER OMC 607.5.3
 - EXCEPTION - SUCH WALLS ARE PENETRATED BY DUCTED HVAC SYSTEMS. HAVE A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS AND ARE IN AREAS IN OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THOUGH OUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 OF BUILDING CODE. SHALL BE CONSTRUCTED OF SHEET STEEL, NO LESS THAN NO. 28 GAGE THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

MECHANICAL SCOPE OF WORK (PLAN REVIEW ONLY)

MECHANICAL SCOPE OF WORK IS TO PROVIDE NEW HVAC TO RESIDENTIAL AND COMMON SPACES. MECHANICAL CONTRACTOR SHALL REFERENCE ALL DISCIPLINE DRAWING, ETC. TO REVEAL FULL SCOPE OF WORK. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

CODES & STANDARDS REFERENCED

- 2017 OHIO MECHANICAL CODE
- 2017 OHIO BUILDING CODE
- ASHRAE 90.1-2010
- LEED BD+C: HOMES AND MULTIFAMILY LOWRISE v4 - LEED v4

HVAC DESIGN CONDITIONS

COMMERCIAL		RESIDENTIAL	
COOLING	HEATING	COOLING	HEATING
OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB	OUTDOOR: 93 DB / 75 WB	OUTDOOR: 0 DB
INDOOR: 74	INDOOR: 72	INDOOR: 75	INDOOR: 70

GENERAL NOTES

- FOR FULL SCHEDULES, SPECIFICATIONS, AND COMPLETE LISTING SEE DETAIL SHEETS.
- COORDINATE ROUTING OF ALL WORK WITH OTHER TRADES.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.
- INSTALL ALL EQUIPMENT PER MANUFACTURERS REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES FOR ACCESS AND MAINTENANCE.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, AND FINAL CEILING DIFFUSER LOCATIONS.
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST SYSTEMS AND EITHER LOUVER, BRICK VENT, OR CAPS AT ALL EXTERIOR BUILDING PENETRATIONS.
- ROUTE ALL AIR CONDITIONER CONDENSATE TO NEARBY FLOOR DRAIN. PROVIDE MINIMUM SLOPE OF 1/8" PER FOOT. SIZE CONDENSATE PER SECTION 307.2.2 OF THE OHIO MECHANICAL CODE.
- PROVIDE AN APPROVED THROUGH PENETRATION FIRESTOP FOR ALL PIPING INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. FIRESTOP SHALL HAVE A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCHES OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL OR FLOOR PENETRATED.
- ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL NEW ELECTRICAL AND PLUMBING REQUIREMENTS WITH THE ELECTRICAL AND PLUMBING CONTRACTORS.
- THE FOLLOWING GUIDELINES MUST BE FOLLOWED FOR THE DOMESTIC DRYER EXHAUST SYSTEMS.
 - EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND BE CONSTRUCTED OF METAL A MINIMUM OF 28 GAGE.
 - DUCT SIZE SHALL BE 4 INCHES NOMINAL DIAMETER.
 - DUCTS SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
 - DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE MORE THAN 1/8" INTO THE INSIDE OF THE DUCT.
 - PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4 INCHES BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062 INCHES, AND EXTEND NOT LESS THAN 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.
 - TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE NOT GREATER THAN 6 FEET IN LENGTH AND SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
 - PROVIDE DRYER WALL BOX EQUAL TO DUNDAS JAFINE MODEL DRB4XZW NEAR DRYER.
 - PROVIDE A PERMANENT LABEL OR TAG (EQUAL TO DRYER PLACARD) INDICATING ACTUAL EQUIVALENT LENGTH OF EXHAUST DUCT. LENGTH SHALL INCLUDE 5' FOR 90° LABEL/TAG MUST BE WITHIN 6" OF DRYER EXHAUST CONNECTION. DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH SHALL BE 2'-4" FOR A RADIUS MITERED 45-DEGREE ELBOW AND 5 FEET FOR A RADIUS MITERED 90-DEGREE ELBOW.
- MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
- THERMOSTAT TO BE MOUNTED 48" ABOVE FINISHED FLOOR IN ADA UNITS/SENSORY UNITS.



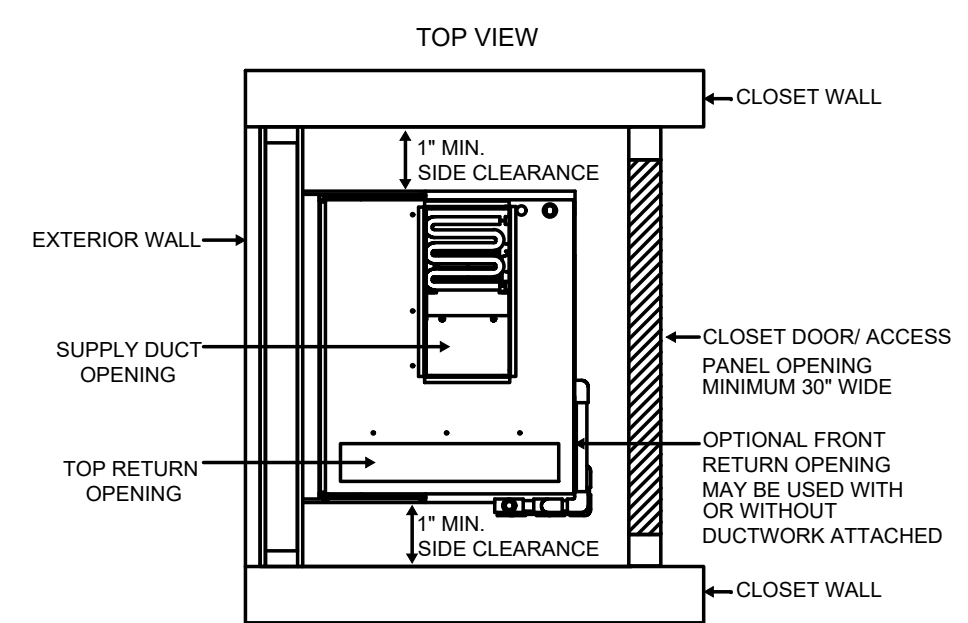
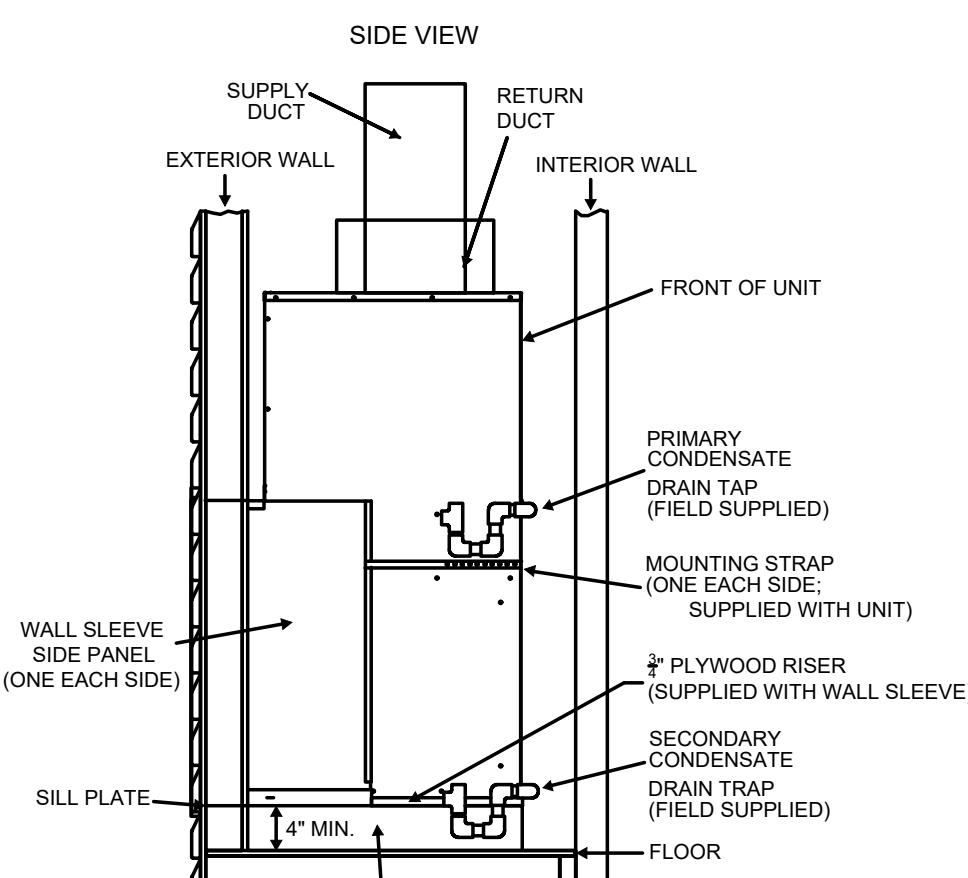
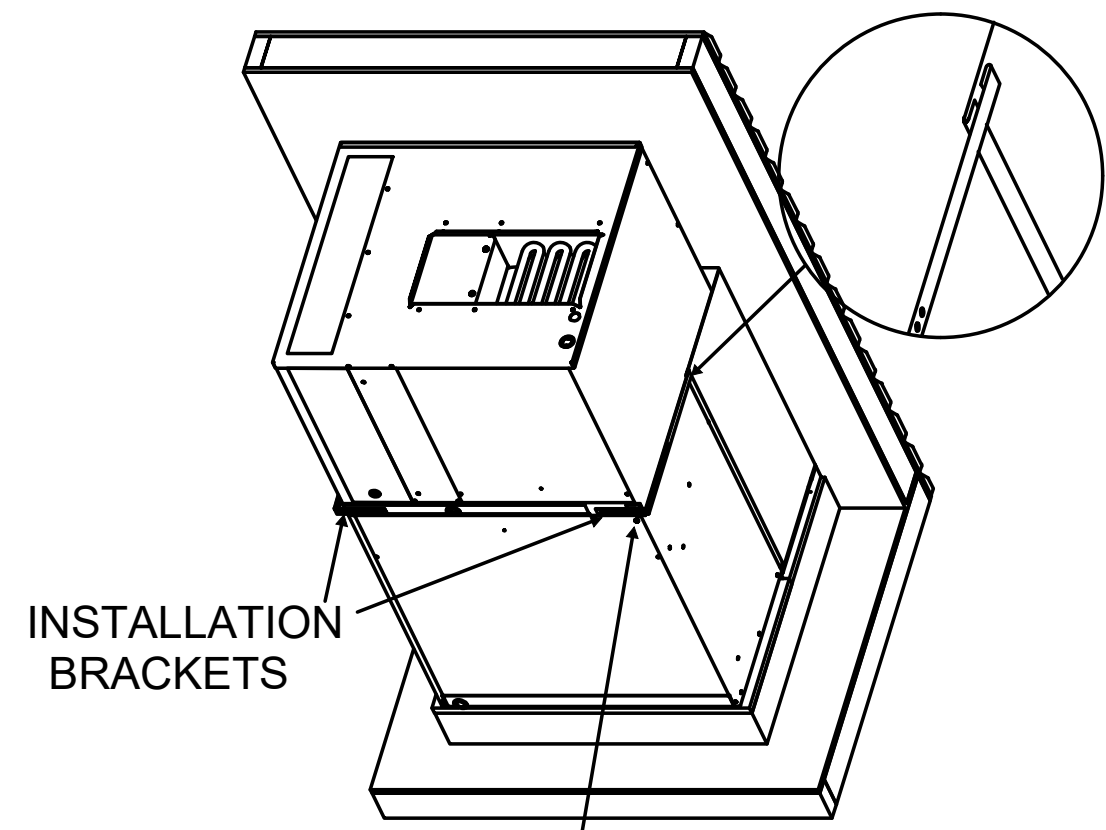
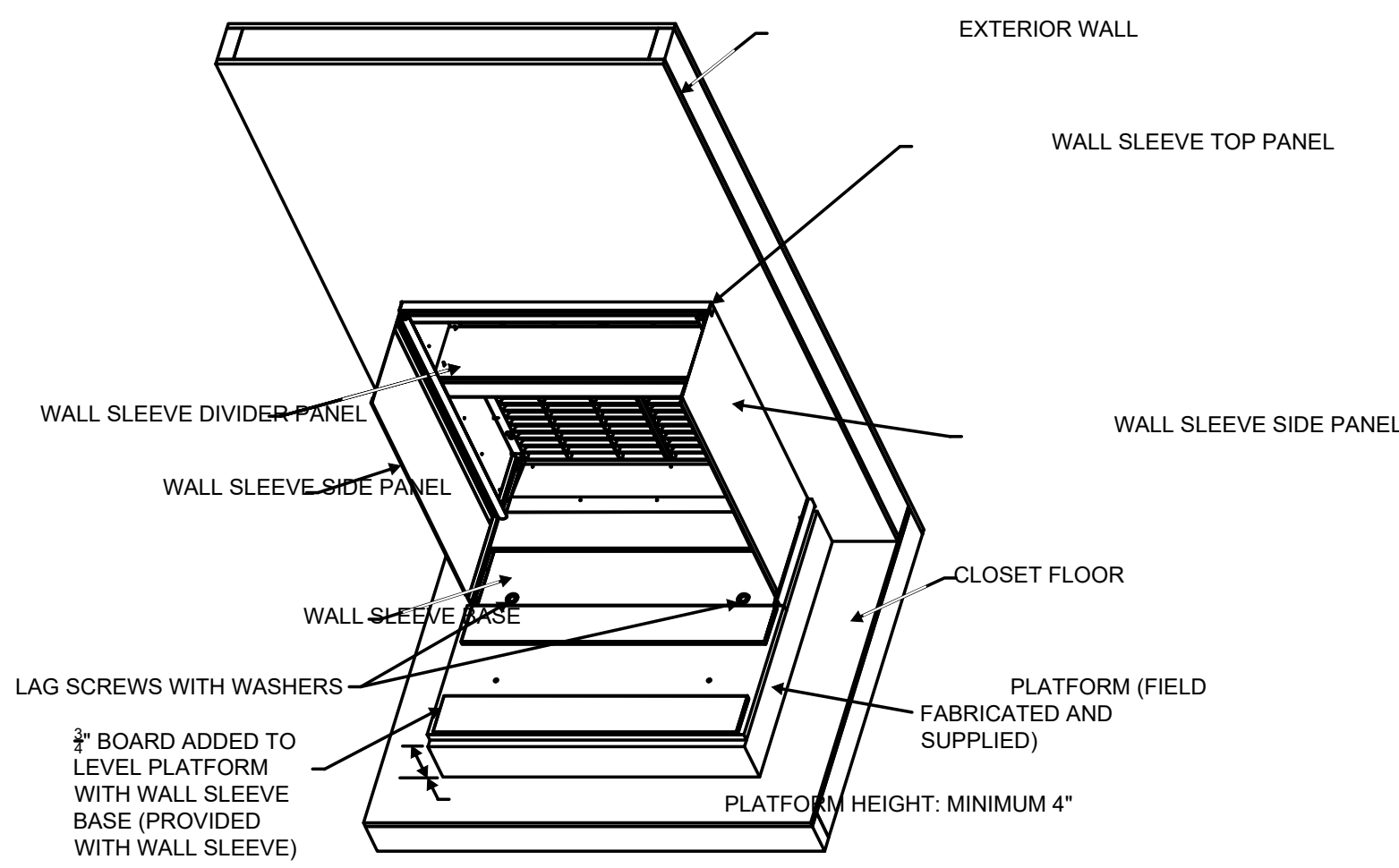
ISSUANCES	DATE	DESCRIPTION
	01/18/2023	60% CHFA Review
	04/13/2023	PERMIT SET

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PROJECT NO.: 10041	
SCALE: AS NOTED	
DATE: 04-13-2023	
DRAWING TITLE MECHANICAL ENLARGED UNIT PLANS	
SHEET NO. M201	

2A - Project Description: 1000A - 1000A 1004 - The Geiger House for Veterans - Consultant: OMA - Construction Documents: 1001-11-MECHANICAL DETAILS EBS - EBS, Inc. - 10/23/2019 - 10/26/2019 - The Geiger House for Veterans - Consultant: OMA - Construction Documents: 1001-11-MECHANICAL DETAILS EBS - EBS, Inc. - 10/23/2019 - 10/26/2019 - THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTUAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.



ENGINEERING JUDGMENT FIRESTOP DETAIL

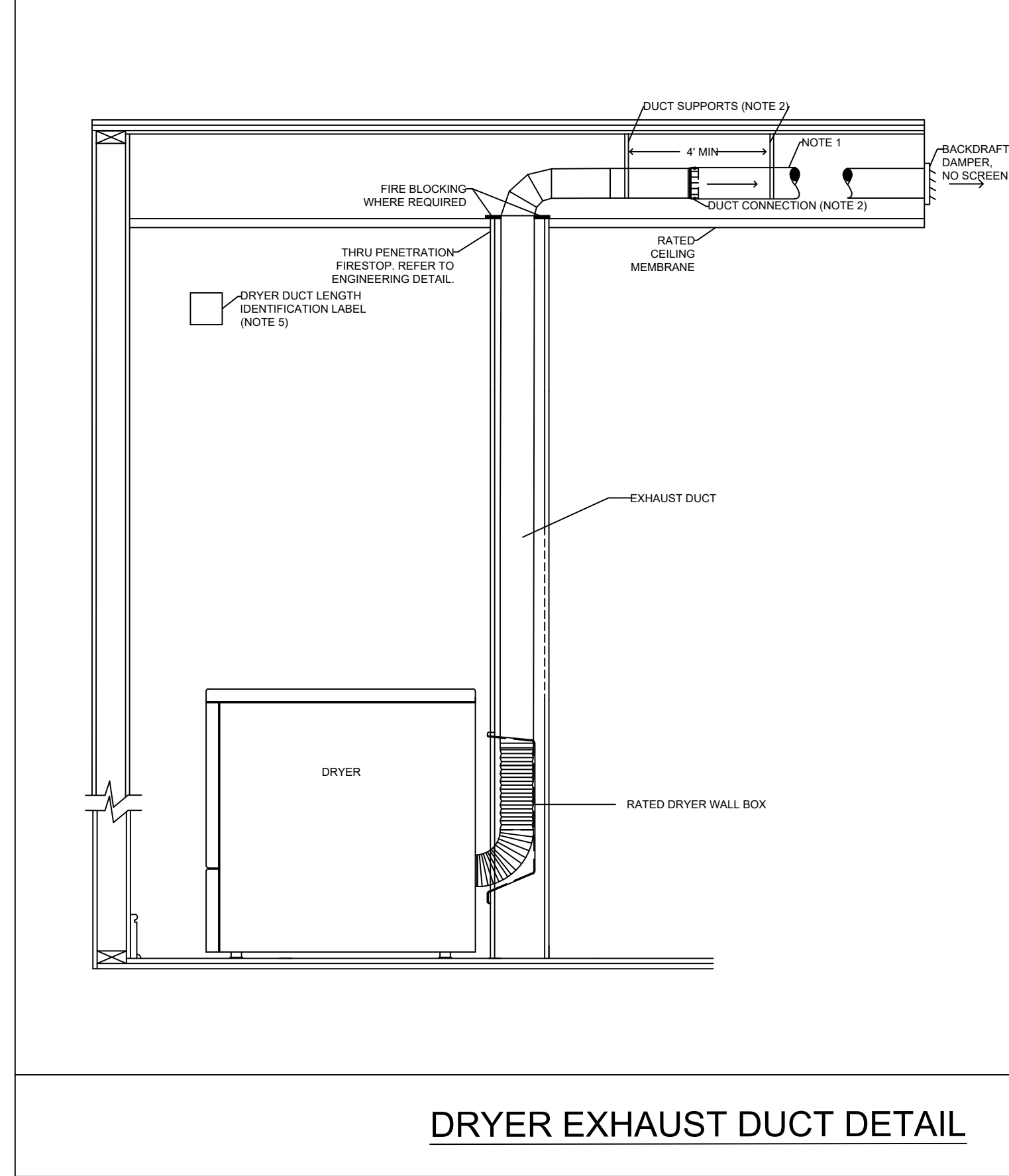
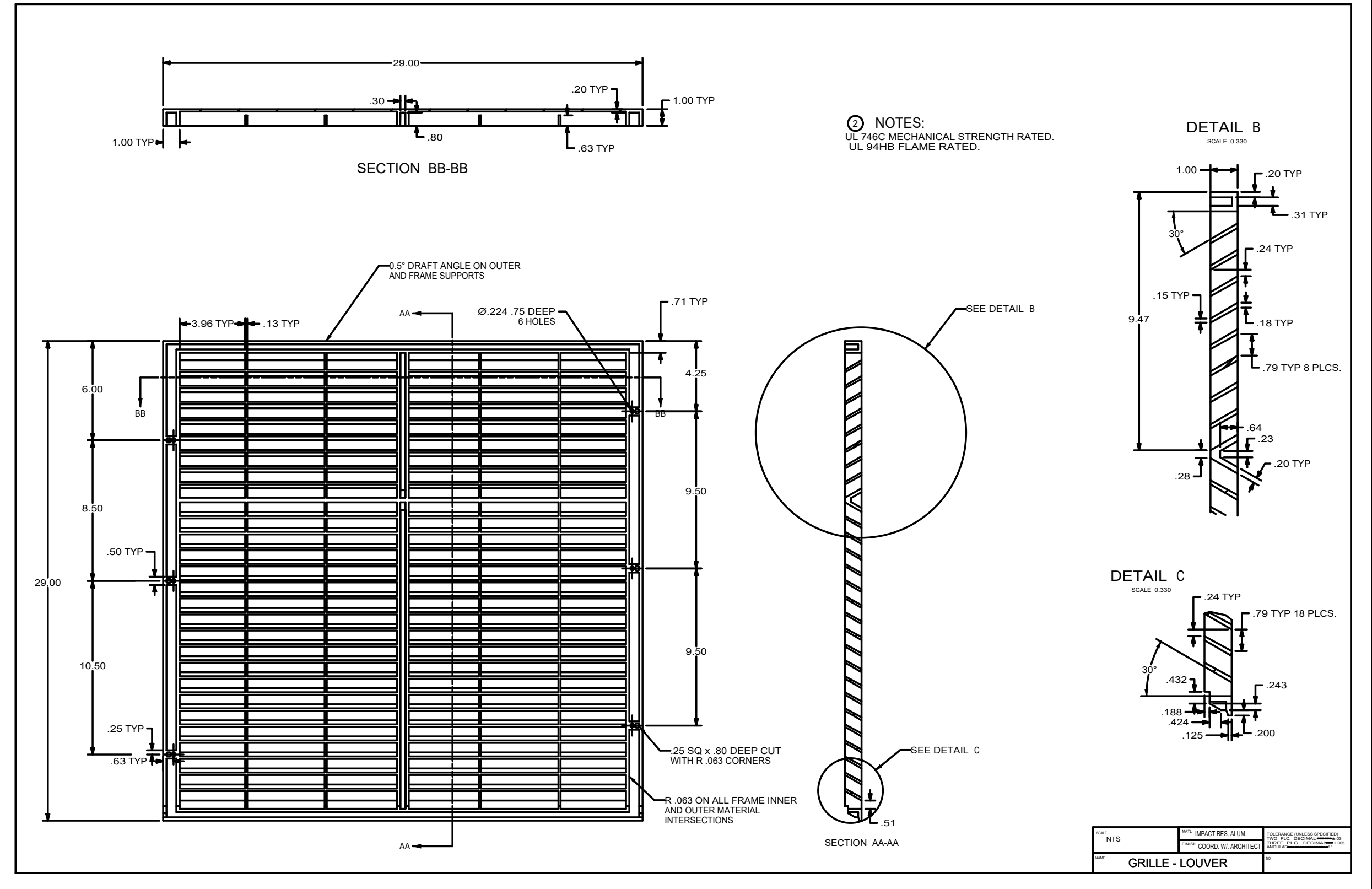
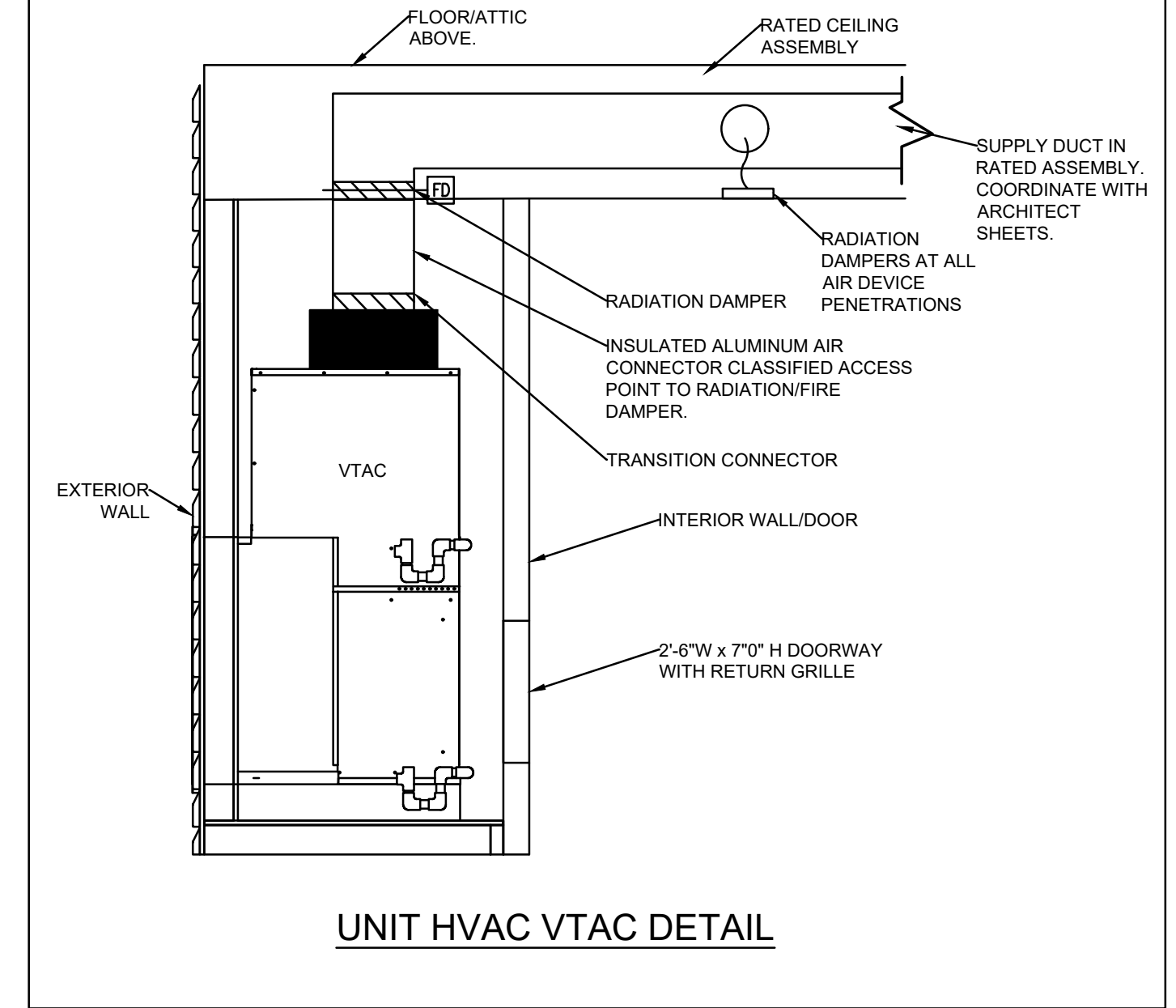
CONTRACTOR : ENGINEERED BUILDING SYSTEMS
F-RATING = 1-HR.
CROSS-SECTIONAL VIEW

NOTES :

1. MAXIMUM SIZE OF OPENING = 7".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1".
3. [OPTIONAL - NOT SHOWN] CHASE WALL : THE THROUGH PENETRANT MAY BE ROUTED THROUGH A 1-HR. FIRE-RATED GYPSUM CHASE WALL.
4. [NOT SHOWN] WHEN ANNULAR SPACE IS 0", APPLY MINIMUM 1/2" BEAD HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

THIS ENGINEERING JUDGMENT REPRESENTS A FIRESTOP SYSTEM THAT WOULD BE EXPECTED TO PASS THE STATED RATINGS IF TESTED. (REFERENCE : UL/CUL SYSTEM NO. F-C-7025, F-C-7013 & F-C-1142)

	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet 1 of 1	Drawing No. 344523a
Designed by <i>Jayson G...</i>		Scale 3/16" = 1"	Date Sep. 17, 2019
Saving Lives through Innovation and Education			



**TABLE 504.8.4.1
DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH**

DRYER EXHAUST DUCT FITTING TYPE	EQUIVALENT LENGTH
1/2" radius mitered 45-degree elbow	2 feet 6 inches
1/4" radius mitered 90-degree elbow	1 foot 6 inches
1/2" radius mitered 45-degree elbow	2 feet 6 inches
1/4" radius mitered 90-degree elbow	1 foot 6 inches
1/2" radius mitered 45-degree elbow	2 feet 6 inches
1/4" radius mitered 90-degree elbow	1 foot 6 inches
1/2" radius mitered 45-degree elbow	2 feet 6 inches
1/4" radius mitered 90-degree elbow	1 foot 6 inches

NOTES (504.8 2017 OMC)

1. MATERIAL AND SIZE: DRYER DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH, BE CONSTRUCTED OF METAL AT LEAST 0.016 IN. (28 GAGE) THICK AND BE 4-INCHES IN DIAMETER (SECTION 504.8.1).
2. DUCT INSTALLATION: SUPPORT EXHAUST DUCTS AT 4 FT. INTERVALS AND SECURE IN PLACE. SECURE WITH ALUMINUM FOIL DUCTWORK TAPE. IF USING SCREWS OR POP-RIVETS THEY MUST PROTRUDE NO MORE THAN 1/8 INCH INTO THE INSIDE OF THE DUCT (SECTION 504.8.2).
3. TRANSITION DUCTS: TRANSITION DUCT TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM MUST BE A SINGLE LENGTH LISTED, LABELED PER UL2158. TRANSITION DUCT MUST BE NO MORE THAN 8 FT. LONG AND CANNOT BE CONCEALED WITHIN CONSTRUCTION. (SECTION 504.8.3).
4. DUCT LENGTH: THE MAXIMUM ALLOWABLE EXHAUST SHALL BE DETERMINED BY ONE OF THE METHODS IN SECTIONS 504.8.4.1 THROUGH 504.8.4.3.
- 4.1. 504.8.4.1 SPECIFIED LENGTH: THE MAX LENGTH OF EXHAUST DUCT IS 35 FEET FROM CONNECTION TO TRANSITION DUCT FROM DRYER TO OUTLET. THE MAXIMUM LENGTH OF THE EXHAUST DUCT IS REDUCED FROM FITTINGS USED ACCORDING TO TABLE 504.8.4.1 ABOVE.
- 4.2. 504.8.4.2 MANUFACTURER'S INSTRUCTIONS: THE MAX LENGTH OF THE EXHAUST DUCT WILL BE DETERMINED BY THE INSTALLATION INSTRUCTIONS WHICH ARE PROVIDED BY THE DRYER MANUFACTURER (IF APPLICABLE).
- 4.3. 504.8.4.3 DRYER EXHAUST DUCT POWER VENTILATOR LENGTH: THE MAX LENGTH OF DRYER EXHAUST TO BE DETERMINED BY DRYER EXHAUST DUCT POWER VENTILATOR MANUFACTURER'S INSTALLATION INSTRUCTIONS (IF APPLICABLE).
5. LENGTH IDENTIFICATION: IF THE EXHAUST DUCT EXCEEDS 35 FT. THE EQUIVALENT LENGTH OF DUCT SHALL BE SHOWN ON A PERMANENT LABEL/TAG. LABEL/TAG TO BE PLACED WITHIN 6 FT. OF EXHAUST DUCT CONNECTION. LABEL EQUAL TO DRYER PLACARD BRAND. (SECTION 504.8.5).

CODE REFERENCED: 2017 OHIO MECHANICAL CODE



ISSUANCES	DATE	DESCRIPTION
	01/18/2023	60% OMA Review
	04/13/2023	PERMIT SET

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PROJECT NO.: 10041

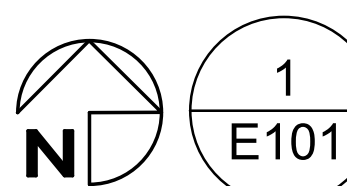
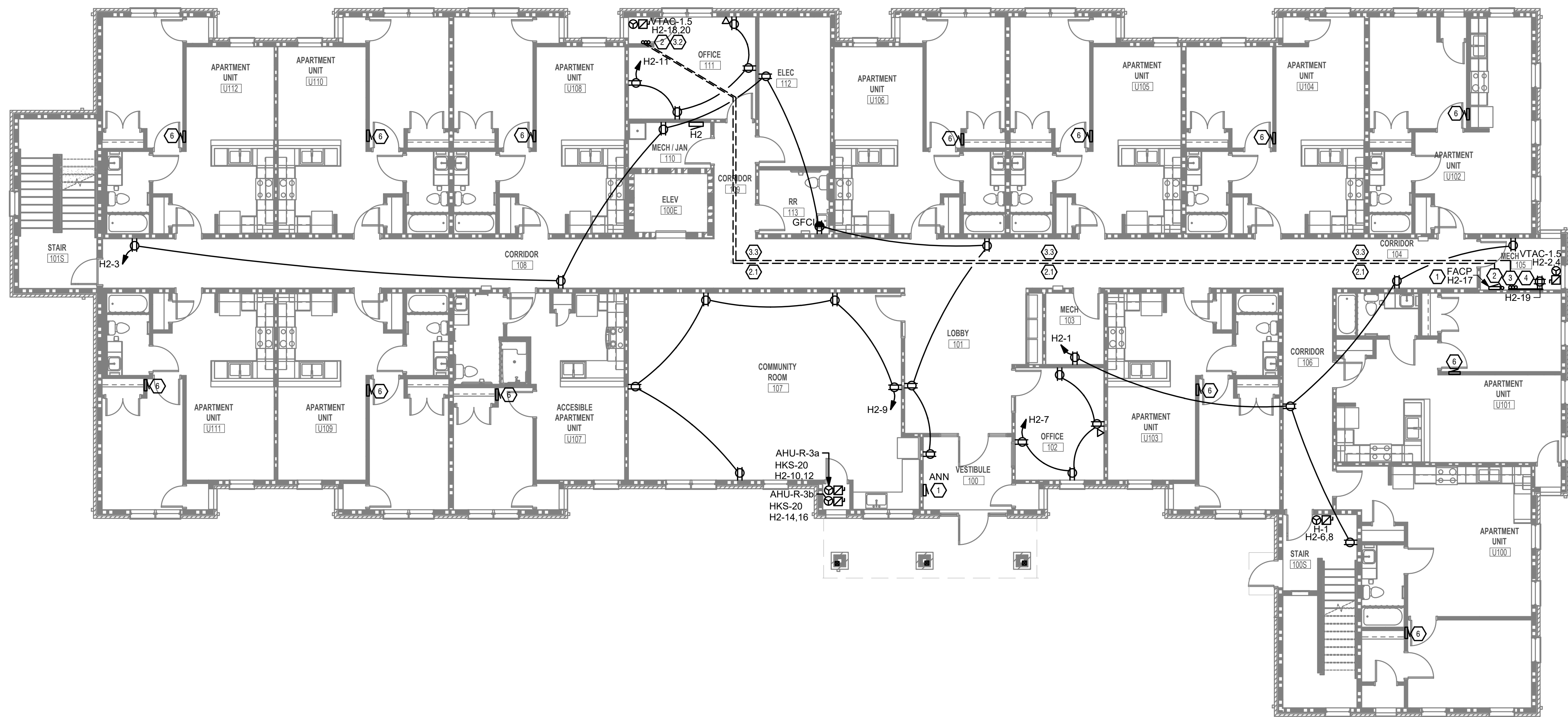
SCALE: AS NOTED

DATE: 04-13-2023

DRAWING TITLE: MECHANICAL DETAILS

SHEET NO.
M301

7A - Project: Electrical 1000A-1000A 1004 - The Geiger House for Veterans - Client: OVA - Construction Documents - Project: 13 - 2023-11-28 - By: Keith Schwaner
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ELECTRICAL POWER FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"

SCOPE OF WORK

NEW CONSTRUCTION OF A MULTI-FAMILY APARTMENT BUILDING. PROJECT CONSISTS OF (49) APARTMENTS, AND ADMINISTRATIVE AND SUPPORT SPACES.
 SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.
 SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHAFT, SLUMP PUMP, PIT LIGHT, RECEPTACLE, CAB LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

FIRE ALARM - DELEGATED DESIGN

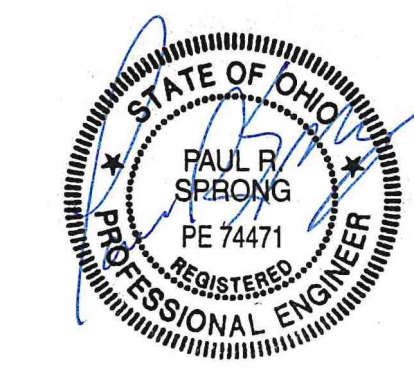
A. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.
 B. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.
 C. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS: RELAY MODULES, MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

GENERAL NOTES-POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
 B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
 C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.
 D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
 E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.
 F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.
 G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
 H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHOD OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

KEYED NOTES - COMMON AREAS

1. PROVIDE DEDICATED CIRCUIT FOR FIRE ALARM PANEL IN THE MECHANICAL ROOM AND ANNUNCIATOR AT THE BUILDING ENTRANCE. LOCATION TO BE APPROVED BY GC AND AHJ PRIOR TO INSTALLATION.
2. PROVIDE 4" CONDUIT SLEEVE BETWEEN FLOORS FOR FIRE ALARM CABLING.
 - 2.1. FIRE ALARM CABLING SERVING BASEMENT TO BE ROUTED FROM THE FIRE ALARM PANEL ABOVE THE CEILING OF THE FIRST FLOOR TO THE CLOSET IN OFFICE 111, THEN DOWN INTO BASEMENT CEILING BELOW. ROUTING IS SHOWN FOR REFERENCE ONLY AND MUST BE FIELD COORDINATED.
3. PROVIDE CONDUIT SLEEVES BETWEEN FLOORS FOR DATA CABLING.
 - 3.1. (3) 4" CONDUIT SLEEVES BETWEEN FLOORS FOR DATA CABLING ON FLOORS 1-3.
 - 3.2. (2) 4" CONDUIT SLEEVE BETWEEN BASEMENT LEVEL AND FIRST FLOOR FOR DATA CABLING.
 - 3.3. DATA CABLING SERVING BASEMENT TO BE ROUTED FROM THE BUILDING DEMARC ABOVE THE CEILING OF THE FIRST FLOOR TO THE CLOSET IN OFFICE 111, THEN DOWN INTO BASEMENT CEILING BELOW. ROUTING IS SHOWN FOR REFERENCE ONLY AND MUST BE FIELD COORDINATED.
4. INSTALL CONDUIT(S) FOR UTILITY USE AND 4"x4"x3/4" PLYWOOD BACKBOARD FOR DATA/PHONE UTILITIES. CONFIRM LOCATION, QUANTITY, AND SIZE OF CONDUITS NECESSARY WITH OWNER AND UTILITY PROVIDER. INSTALL OWNER APPROVED (HOMERUN) CABLE FROM EACH DWELLING UNIT HOME NETWORK ENCLOSURE (HNE) TO THIS BUILDING DEMARC LOCATION. PROVIDE DEDICATED QUAD RECEPTACLE AT DEMARC LOCATION.
5. ITEMS TO BE INSTALLED FOR ELEVATOR. CONFIRM ALL ELECTRICAL CONTRACTOR RESPONSIBLE WORK PRIOR TO ROUGH-IN. REFER TO ELEVATOR SHOP DRAWINGS FOR MORE INFORMATION. ALL ITEMS PERTAINING TO THE ELEVATOR TO BE INSTALLED PER NEC AND MANUFACTURER REQUIREMENTS. COORDINATE REQUIREMENTS AND LOCATIONS WITH INSTALLING CONTRACTOR PRIOR TO ROUGH-IN.
6. TENANT UNIT PANEL.
7. MECHANICAL UNIT. INDOOR UNIT FED ELECTRICALLY FROM OUTDOOR UNIT. FIELD COORDINATE REQUIRED SCOPE WITH GC AND INSTALLING CONTRACTOR.
8. DOMESTIC BOOSTER PUMP SYSTEM PROVIDED AND INSTALLED BY OTHERS. COORDINATE ALL EC RESPONSIBLE SCOPE WITH GC AND INSTALLING CONTRACTOR. PROVIDE ALL CONDUIT(S) AND WIRING BETWEEN CONTROLLER AND PUMPS AS REQUIRED.



ISSUANCES	DATE	DESCRIPTION
	01/18/2023	60% OMTA Review
	04/13/2023	PERMIT SET

**Geiger House for Veterans / Klekamp
 Family Residences**
 2631 GILBERT AVE.
 CINCINNATI, OH

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DRAWN BY: TAZ
 CHECKED BY: PRS

PROJECT NO.: 10041

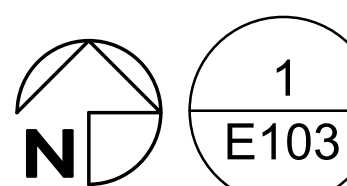
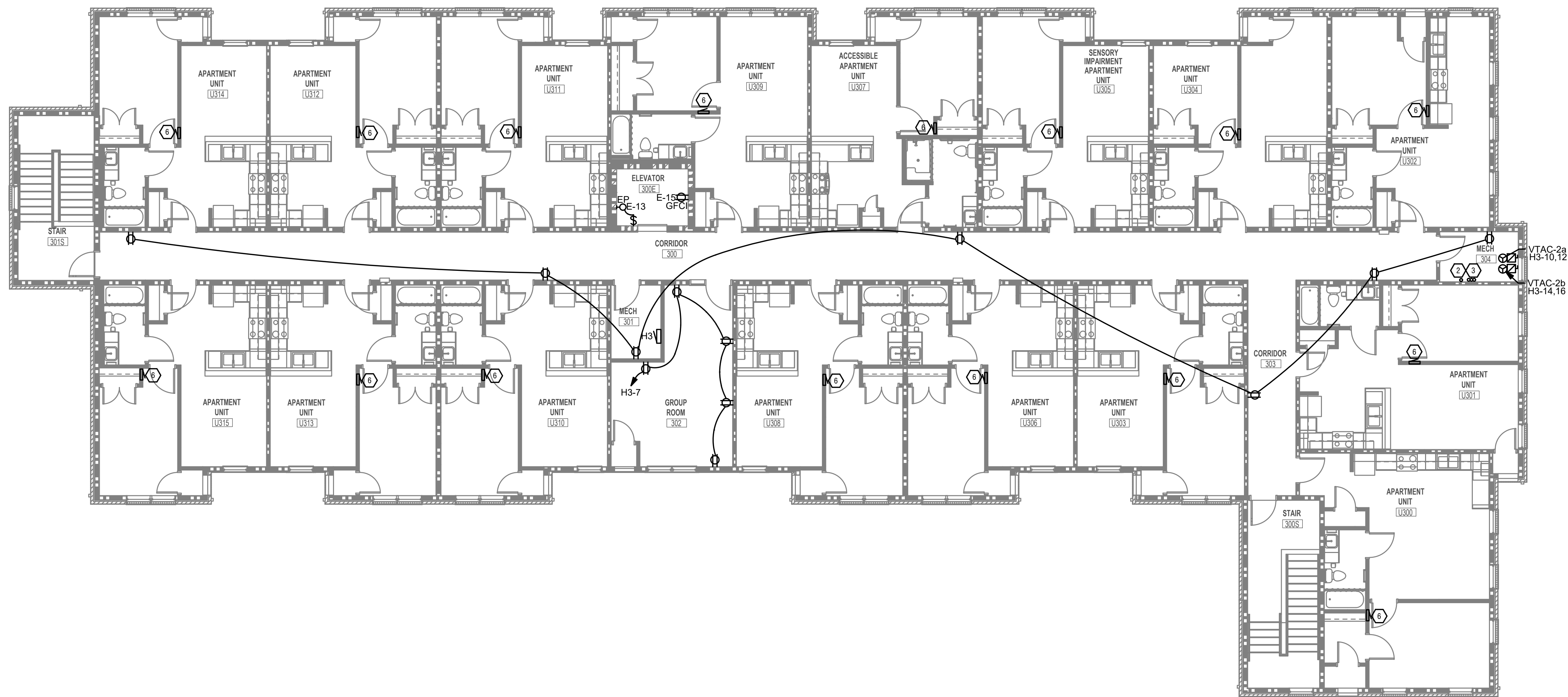
SCALE: AS NOTED

DATE: 04-13-2023

DRAWING TITLE
ELECTRICAL POWER FIRST FLOOR PLAN

SHEET NO.
E101

2A - Project Description: 10000-10001 1004 - The Geiger House for Veterans - Client: ONA - Construction Documents - Mechanical/Electrical/Plumbing/Structural - Project No. 13-2023-11-2824 - By: Keith Schwaner
 THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTUAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.



ELECTRICAL POWER THIRD FLOOR PLAN
 SCALE: 1/8" = 1'-0"

SCOPE OF WORK

NEW CONSTRUCTION OF A MULTI-FAMILY APARTMENT BUILDING. PROJECT CONSISTS OF (49) APARTMENTS, AND ADMINISTRATIVE AND SUPPORT SPACES. SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES - ELEVATOR(S)

A. FURNISH AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS AND CONNECTIONS FOR ELEVATOR OPERATION. REFER TO ELEVATOR SHOP DRAWINGS FOR COMPLETE INFORMATION. PROVIDE SHUNT-TRIP OPERATION FOR ELEVATOR CIRCUIT WHERE REQUIRED. INCLUDE CONNECTIONS FOR SHUNT, SUMP PUMP, PIT LIGHT, RECEPTACLE, GAS LIGHT, ETC. BASIS OF DESIGN HP AND CIRCUIT CHARACTERISTICS SHOWN ON DRAWINGS MUST BE VERIFIED WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN OR INSTALLATION.

FIRE ALARM - DELEGATED DESIGN

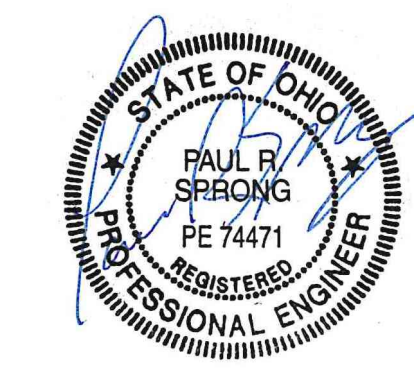
A. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.
 B. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.
 C. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS: RELAY MODULES, MONITOR MODULES, BATTERY PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

GENERAL NOTES-POWER

A. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
 B. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
 C. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.
 D. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
 E. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.
 F. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO THIS BUILDING DESIGN. THE SIZES ON PANEL SCHEDULES MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.
 G. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
 H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

KEYED NOTES - COMMON AREAS

1. PROVIDE DEDICATED CIRCUIT FOR FIRE ALARM PANEL IN THE MECHANICAL ROOM AND ANNUNCIATOR AT THE BUILDING ENTRANCE. LOCATION TO BE APPROVED BY GC AND AHJ PRIOR TO INSTALLATION.
2. PROVIDE 4" CONDUIT SLEEVE BETWEEN FLOORS FOR FIRE ALARM CABLING.
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	01/18/2023	60% OCHA Review
	04/13/2023	PERMIT SET

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DRAWN BY: TAZ
 CHECKED BY: PRS

PROJECT NO.: 10041

SCALE: AS NOTED

DATE: 04-13-2023

DRAWING TITLE
ELECTRICAL POWER THIRD FLOOR PLAN

SHEET NO.
E103

2A - Project: Electrical 1000A-1000A 1004 - The Geiger House for Veterans - Client: OVA - Construction Documents - Project No.: 1004 - Date: 04-13-2023 - 11:28am - By: Keith Schwaner
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TALBERT HOUSE LUMINAIRE SCHEDULE				
CALLOUT	DESCRIPTION	MODEL 1	INPUT VA	NOTE 1
A	SURFACE MOUNTED ROUND LIGHT	EFFICIENT LIGHTING EL-810-209E26LED	25	
A2	2X2 CENTER BASKET LED RECESSED TROFFER	METALUX CRUZE ST 20C22-30-UNV-L835-CD1-U	24.2	
B	24" VANITY LIGHT	EFFICIENT LIGHTING EL-209G-209E26LED	18	
C	RECESSED CAN	HALO HLC4079301EWH-68P	12	WET LISTED
EM	EMERGENCY WALL PACK	SURE-LITES AP2SQLED	2	WHITE
EMX	EXIT/EMERGENCY COMBO-PROVIDE REMOTE CAPABILITY AS REQUIRED	SURE-LITES APCH7R	3	
EP	LINEAR LED ELEVATOR PIT FIXTURE	METALUX 4APVTL-D-54L835	54	
ER	REMOTE HEAD - POWERED FROM LOCAL EXIT SIGN BATTERY	SURE-LITES APWR2		
EX	EXIT/EMERGENCY COMBO	SURE-LITES APC7R	3	WHITE
F	4' UTILITY LED STRIP	METALUX 4SNX-31SL-SLW-UNV L835-CD1-U	19.5	
R6	6" LED RECESSED CAN	INFINILUM SCERLEDFX-30L-35K-DX BH27-AR6223FX-SG-WF-S0	21.9	
W1	DECORATIVE UP/DOWN CYLINDER	EFFICIENT LIGHTING EL-1080UD-18LED-BR	18	
W4-EMNL	LED SURFACE MOUNT W/ 50/50 SENSOR	METALUX 4SRL-LDS-54SL-LW-UNV L835-CD1-SVPD2-U	47	FIXTURES TO BE PROVIDED WITH BI-LEVEL CONTROLS WHERE LOCATED IN STAIRWELLS, AND BATTERY BACKUP FOR EMERGENCY ILLUMINATION.
WM10	EXTERIOR WALLPACK	LW6048-585-US-SLW-350-840	5	
WM11	EXTERIOR WALLPACK	LW6048-575-US-SLW-700-840	20	
WM12	EXTERIOR WALLPACK	LW6048-575-US-SLW-350-840	10	

* NL DENOTES EGRESS LIGHTING

SCOPE OF WORK

NEW CONSTRUCTION OF A MULTI-FAMILY APARTMENT BUILDING. PROJECT CONSISTS OF (49) APARTMENTS, AND ADMINISTRATIVE AND SUPPORT SPACES. SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

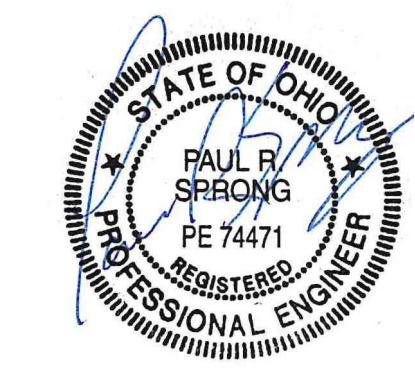
- A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES-LIGHTING

- A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
- B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
- C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
- D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.
- E. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL OCCUPANCY SENSORS IN QUANTITIES AND LOCATIONS ADEQUATE TO SENSE MOTION FROM ANYWHERE IN THE AREA IN CORRIDORS AND LOBBY.

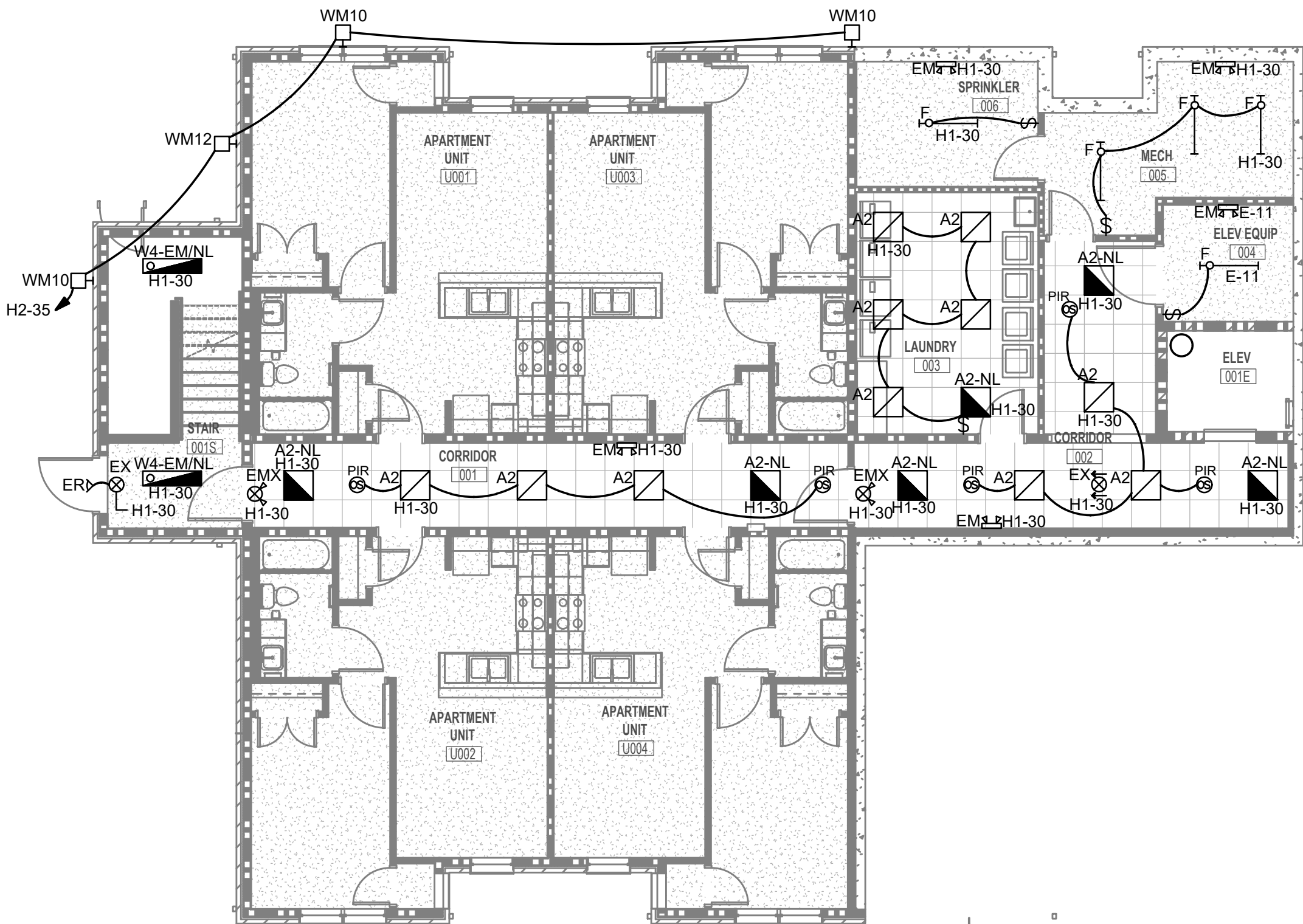
KEYED SHEET NOTES

- 1. PROVIDE AN ASTRONOMICAL TIMECLOCK ADJACENT TO PANEL "H2" FOR CONTROL OF EXTERIOR LIGHTING.



ISSUANCES	DATE	DESCRIPTION
	01/18/2023	60% OMA Review
	04/13/2023	PERMIT SET

SEE LIGHTING FLOOR PLANS (E100 & E101) FOR LIGHTING LOCATIONS OF EXTERIOR BUILDING MOUNTED FIXTURES. ALL EXTERIOR LIGHTING FIXTURES ARE TO BE CONTROLLED BY A TIMECLOCK UNLESS SPECIFIED OTHERWISE.



ELECTRICAL LIGHTING BASEMENT PLAN
 SCALE: 1/8" = 1'-0"

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PROJECT NO.: 10041	
SCALE: AS NOTED	
DATE: 04-13-2023	
DRAWING TITLE ELECTRICAL LIGHTING BASEMENT PLAN	
SHEET NO. E200	

7A - Project: Electrical (10000-10001) 1004 - The Geiger House for Veterans - Client: OVA - Construction Documents (2023) 04-13-2023 11:28am - By: Keith Schwaner
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TALBERT HOUSE LUMINAIRE SCHEDULE				
CALLOUT	DESCRIPTION	MODEL 1	INPUT VA	NOTE 1
A	SURFACE MOUNTED ROUND LIGHT	EFFICIENT LIGHTING EL-810-209E26LED	25	
A2	2X2 CENTER BASKET LED RECESSED TROFFER	METALUX CRUZE ST 20C22-30-UNV-L835-CD1-U	24.2	
B	24" VANITY LIGHT	EFFICIENT LIGHTING EL-209G-209E26LED	18	
C	RECESSED CAN	HALO HLC4079301EWH-68P	12	WET LISTED
EM	EMERGENCY WALL PACK	SURE-LITES AP2SQLED	2	WHITE
EMX	EXIT/EMERGENCY COMBO-PROVIDE REMOTE CAPABILITY AS REQUIRED	SURE-LITES APCH7R	3	
EP	LINEAR LED ELEVATOR PIT FIXTURE	METALUX 4APVLD-54L835	54	
ER	REMOTE HEAD - POWERED FROM LOCAL EXIT SIGN BATTERY	SURE-LITES APWR2		
EX	EXIT/EMERGENCY COMBO	SURE-LITES APC7R	3	WHITE
F	4' UTILITY LED STRIP	METALUX 4SNX-31SL-SLW-UNV L835-CD1-U	19.5	
R6	6" LED RECESSED CAN	INFINILUM SCELEDXFX-30L-35K-DX BH27-AR6223FX-SG-WF-S0	21.9	
W1	DECORATIVE UP/DOWN CYLINDER	EFFICIENT LIGHTING EL-1080UD-18LED-BR	18	
W4-EMNL	LED SURFACE MOUNT W/ 50/50 SENSOR	METALUX 4SRL-LDS-54SL-LW-UNV L835-CD1-SVPD2-U	47	FIXTURES TO BE PROVIDED WITH BI-LEVEL CONTROLS WHERE LOCATED IN STAIRWELLS, AND BATTERY BACKUP FOR EMERGENCY ILLUMINATION.
WM10	EXTERIOR WALLPACK	LW6048-585-US-SLW-350-840	5	
WM11	EXTERIOR WALLPACK	LW6048-575-US-SLW-700-840	20	
WM12	EXTERIOR WALLPACK	LW6048-575-US-SLW-350-840	10	

* NL DENOTES EGRESS LIGHTING

SCOPE OF WORK

NEW CONSTRUCTION OF A MULTI-FAMILY APARTMENT BUILDING. PROJECT CONSISTS OF (49) APARTMENTS, AND ADMINISTRATIVE AND SUPPORT SPACES.

SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES.

SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES-LIGHTING

A. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.

B. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.

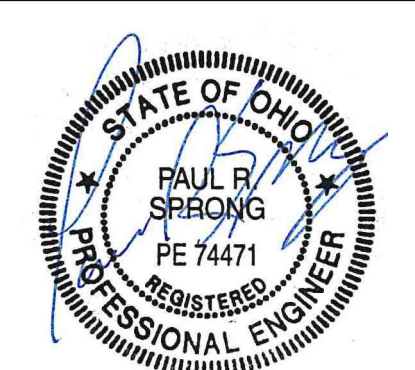
C. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.

D. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WAITAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.

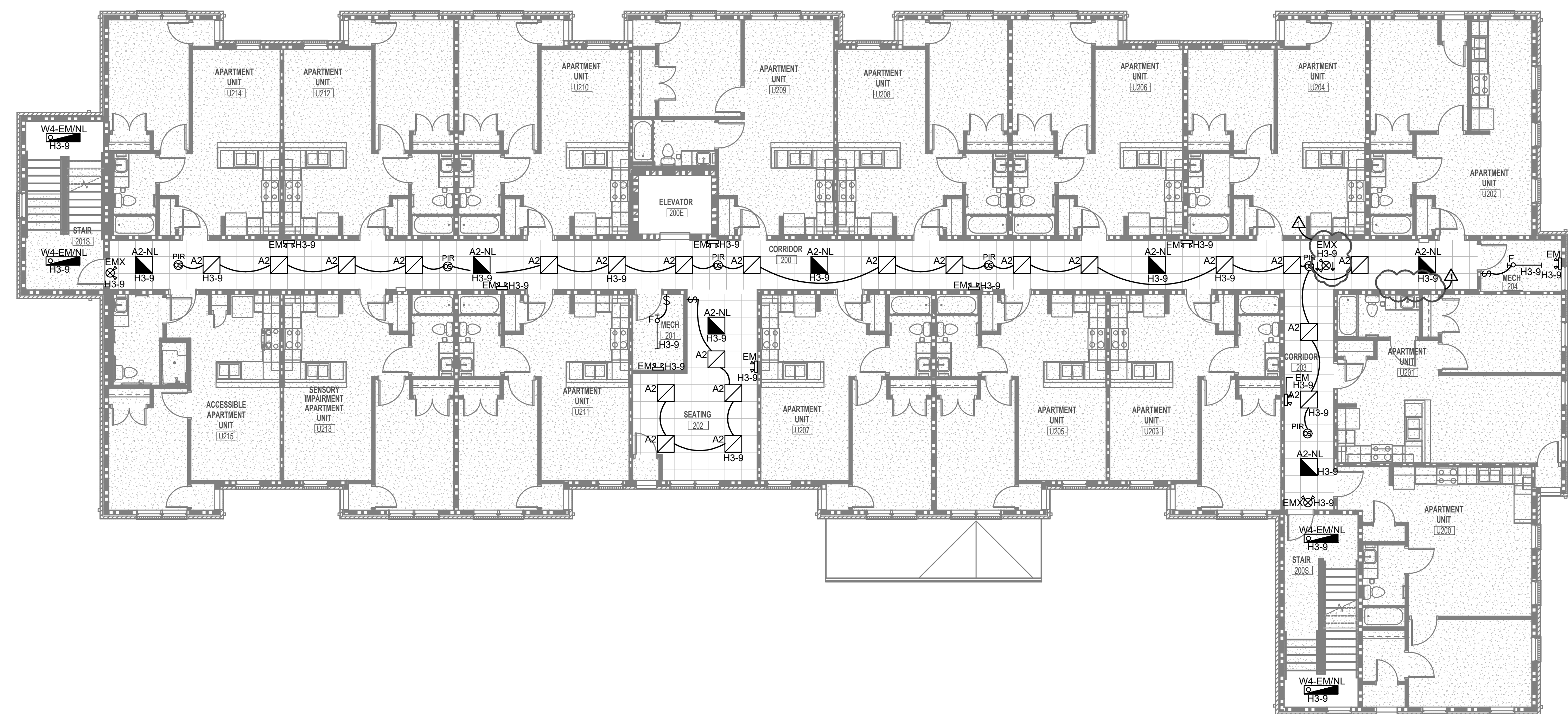
E. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL OCCUPANCY SENSORS IN QUANTITIES AND LOCATIONS ADEQUATE TO SENSE MOTION FROM ANYWHERE IN THE AREA IN CORRIDORS AND LOBBY.

KEYED SHEET NOTES

1. PROVIDE AN ASTRONOMICAL TIMECLOCK ADJACENT TO PANEL "H2" FOR CONTROL OF EXTERIOR LIGHTING.



ISSUANCES	DATE	DESCRIPTION
	01/18/2023	60% OCHA Review
	04/13/2023	PERMIT SET
	05/31/2023	PERMIT REVISION



1
ELECTRICAL LIGHTING SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"

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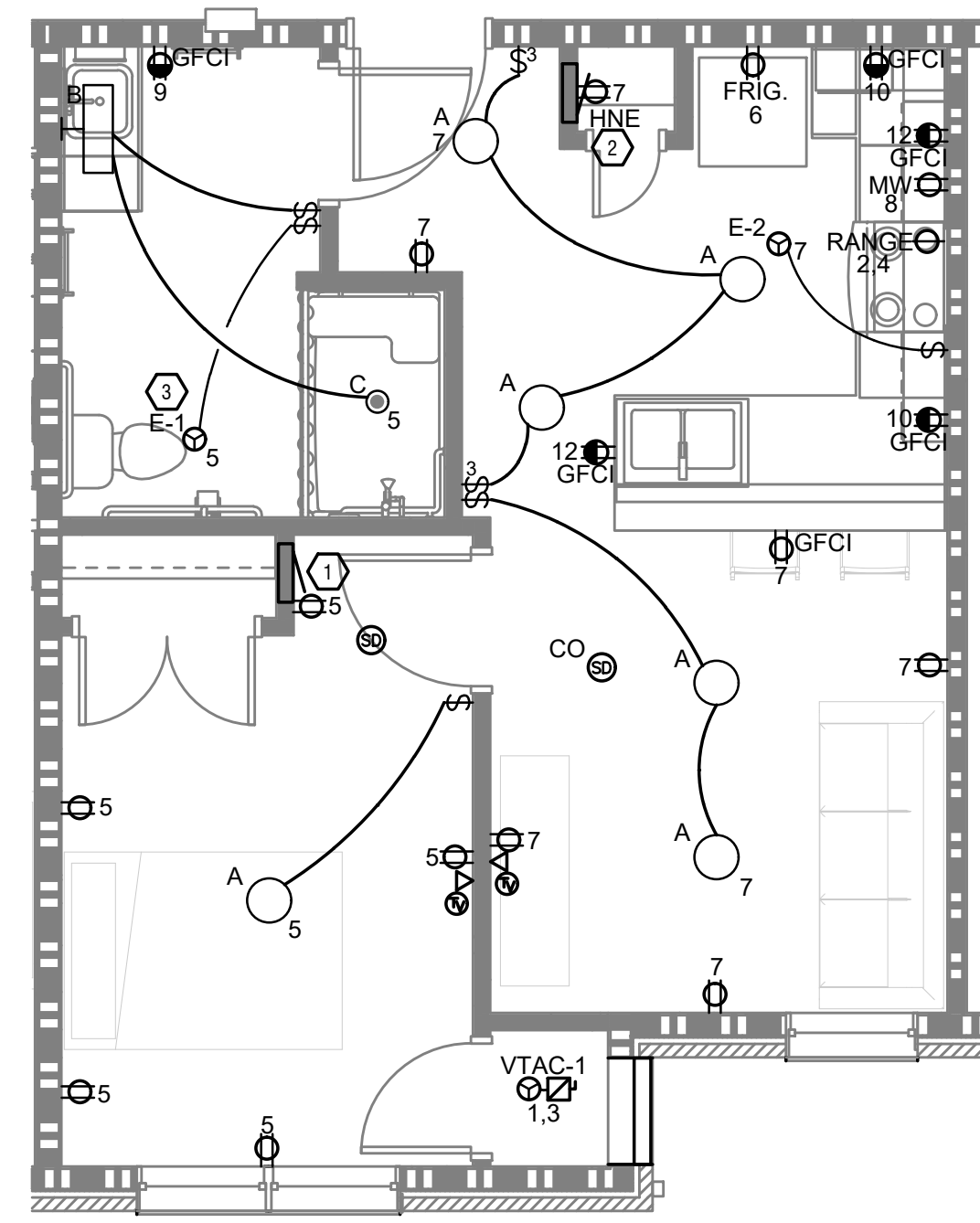
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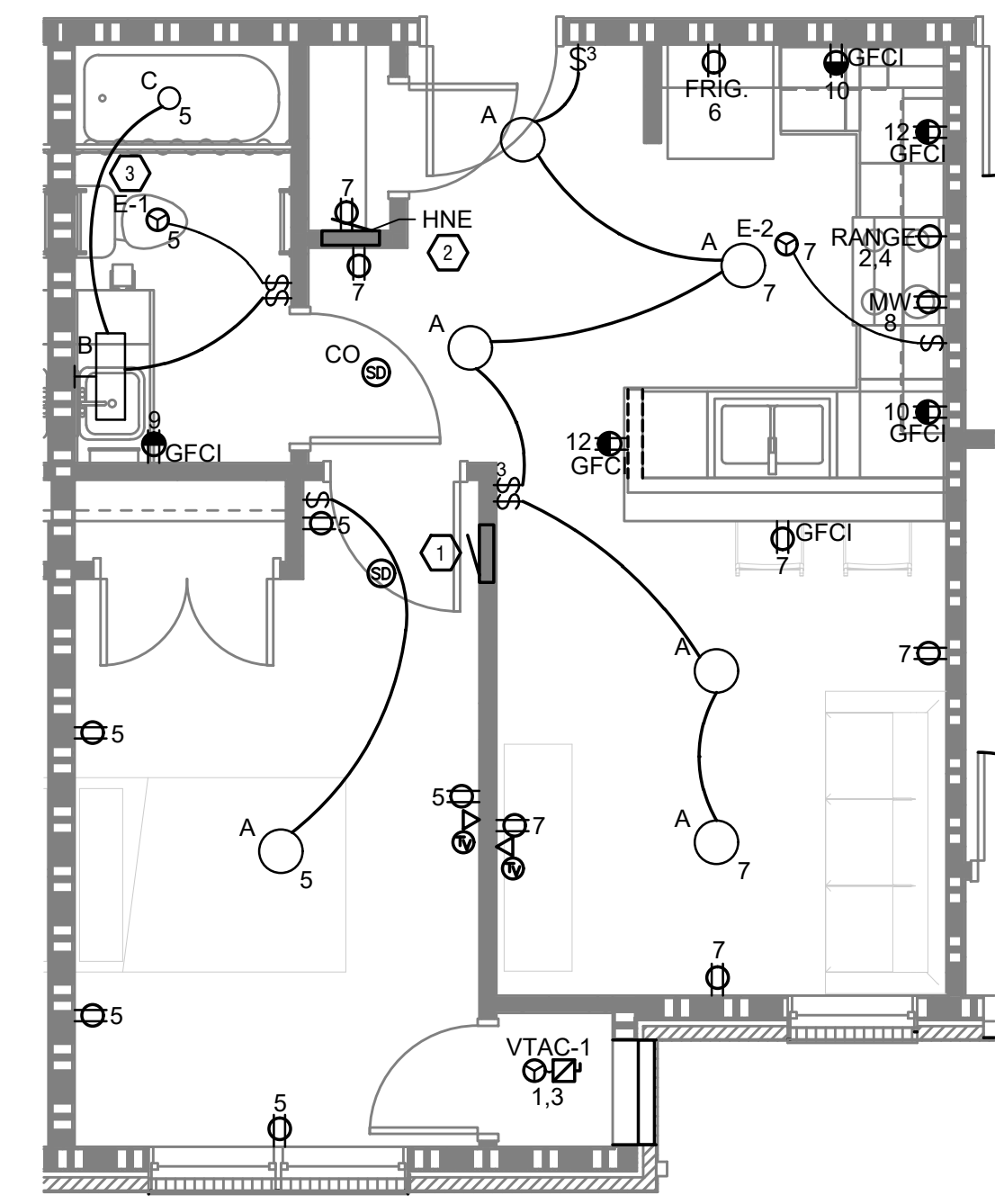
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PROJECT NO.: 10041	
SCALE: AS NOTED	
DATE: 04-13-2023	
DRAWING TITLE ELECTRICAL LIGHTING SECOND FLOOR PLAN	
SHEET NO. E202	

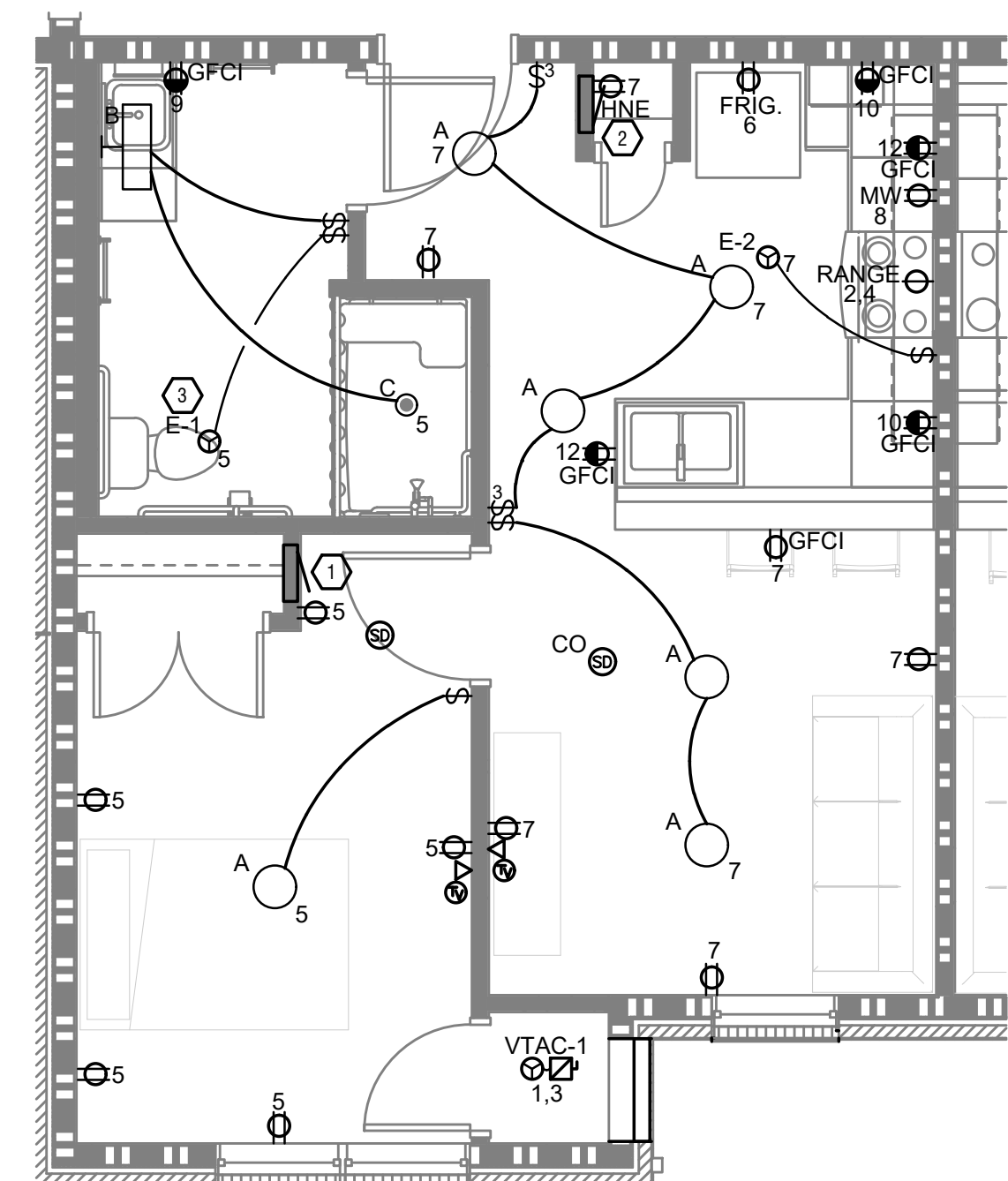
2A - Project: Electrical 1000A - 1000A 1004 - The Geiger House for Veterans - Consultant: OMA - Construction Documents 1004 - E300 - ELECTRICAL - ENLARGED UNIT PLANS - EBS - EBS ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING. GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.



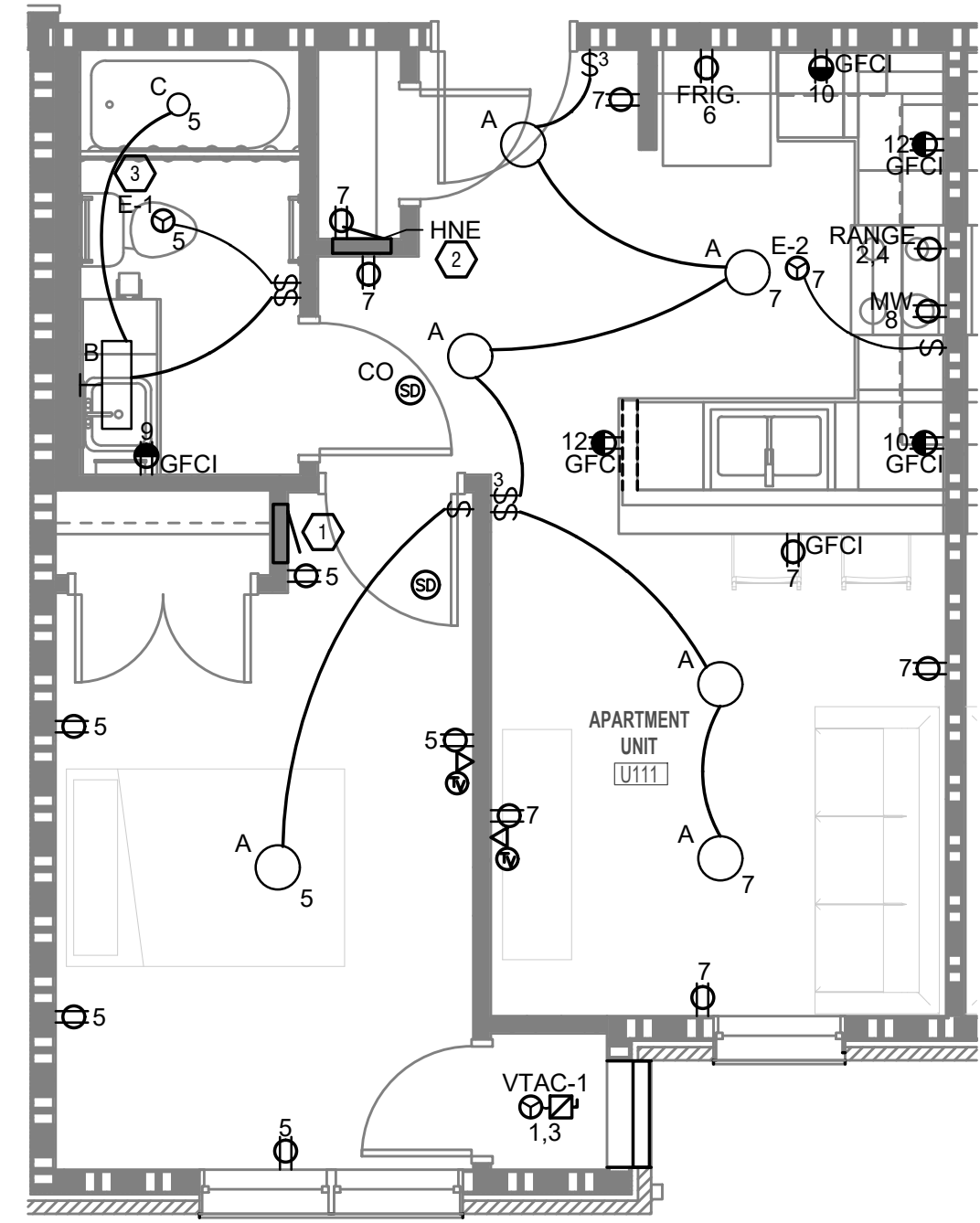
1 ONE BEDROOM ACCESSIBLE - U107, U307
 E300 SCALE: 1/4" = 1'-0"



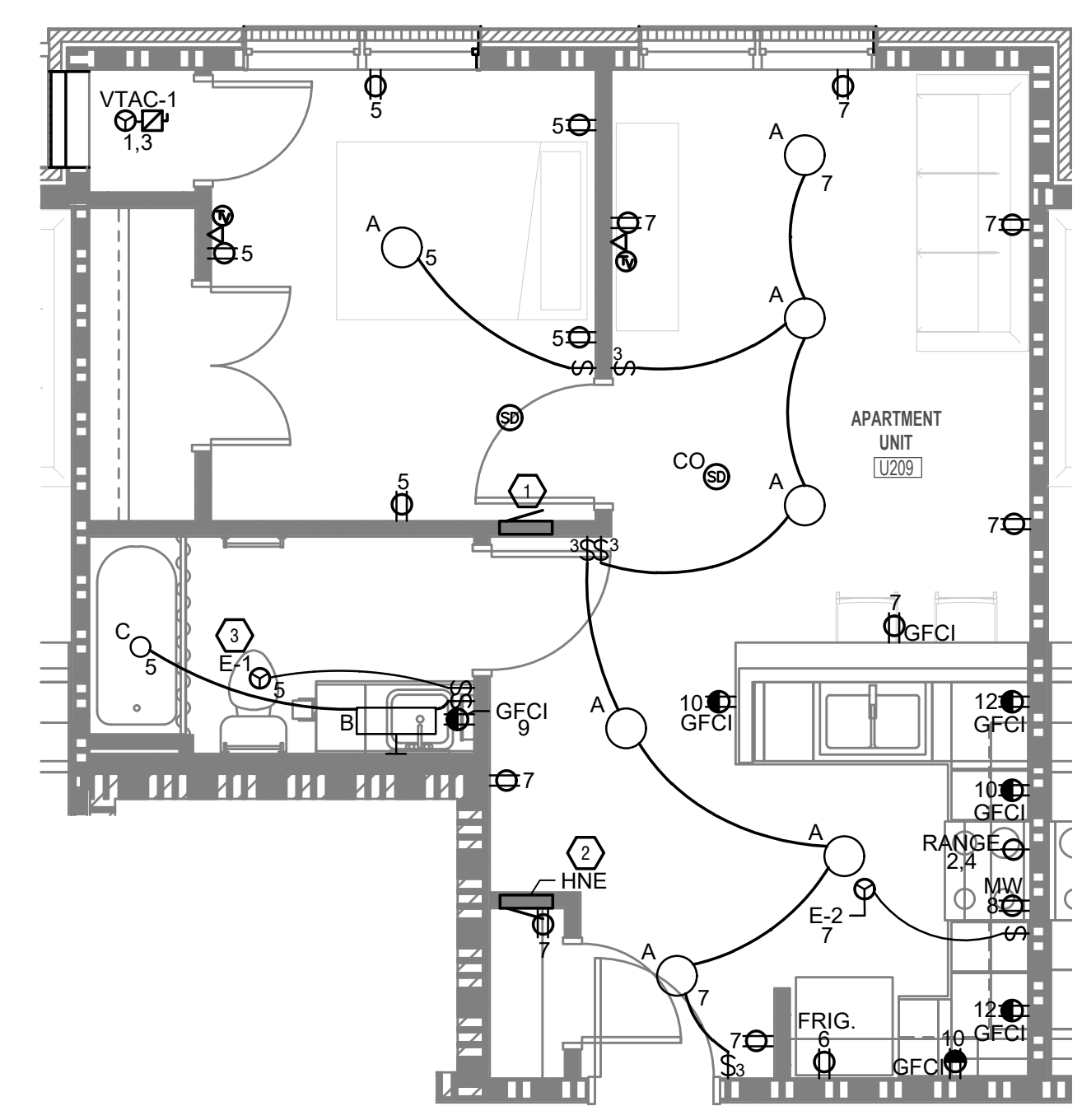
2 TYP ONE BEDROOM
 E300 SCALE: 1/4" = 1'-0"



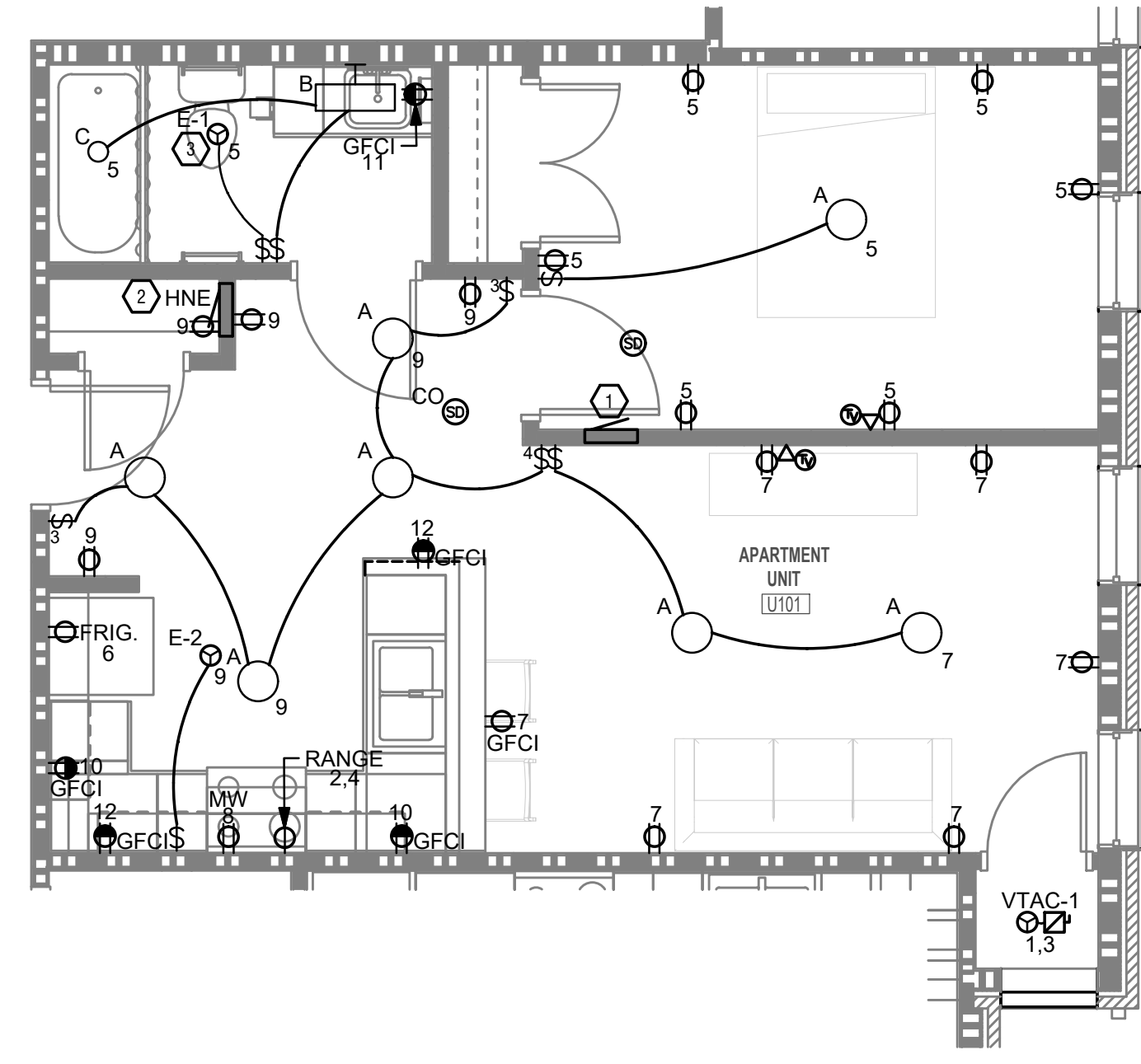
3 ONE BEDROOM ACCESSIBLE - U215
 E300 SCALE: 1/4" = 1'-0"



4 ONE BEDROOM - U001, U002, U111, U214, U314 & U315
 E300 SCALE: 1/4" = 1'-0"



5 ONE BEDROOM - U209, U309
 E300 SCALE: 1/4" = 1'-0"



6 ONE BEDROOM - U101, U201, U301
 E300 SCALE: 1/4" = 1'-0"

SCOPE OF WORK

NEW CONSTRUCTION OF A MULTI-FAMILY APARTMENT BUILDING. PROJECT CONSISTS OF (49) APARTMENTS, AND ADMINISTRATIVE AND SUPPORT SPACES. SCOPE OF WORK INCLUDES A NEW ELECTRICAL SERVICE, DISTRIBUTION EQUIPMENT, BRANCH CIRCUIT WIRING, LIGHTING, AND DEVICES. SEE SINGLE LINE DIAGRAM, PANEL SCHEDULES, AND NOTES FOR ADDITIONAL INFORMATION.

GENERAL NOTES-OVERALL PROJECT

A. EBS DRAWINGS INDICATE DESIGN INTENT AND REQUIRED OUTCOMES. IF CONDITIONS ARISE IN THE FIELD THAT REQUIRE DEVIATIONS FROM THE DRAWINGS IT IS ASSUMED THAT THE CONTRACTOR WILL DETERMINE THE APPROPRIATE DEVIATION WITH APPROVAL FROM THE OWNER. EBS IS AVAILABLE TO ASSIST WHEN REQUIRED IF ISSUES ARISE.

GENERAL NOTES-DWELLING UNITS

A. PROVIDE AFCI PROTECTION IN ACCORDANCE WITH NEC 210.12. AFCI PROTECTION MUST BE PROVIDED WHERE EXISTING BRANCH CIRCUIT WIRING IS MODIFIED, OR RECEPTACLES ARE REPLACED, IN ACCORDANCE WITH NEC AND LOCAL ELECTRICAL INSPECTION REQUIREMENTS. REFER TO NEC 406.4 (D) AND NEC 210.12 (D).

B. FURNISH AND INSTALL SMOKE DETECTORS AS REQUIRED BY CODE. SMOKE DETECTORS SHOWN ON EBS DRAWINGS ARE INTENDED TO CONVEY GENERAL COMPLIANCE FOR BUILDING DEPARTMENT SUBMITTALS. PROVIDE INTERWIRING BETWEEN SMOKE DETECTORS LOCATED IN THE SAME UNIT. SMOKE DETECTORS SHALL BE HARD WIRED WITH BATTERY BACK-UP. FIRE ALARM AND/OR SMOKE DETECTOR SYSTEMS ARE FURNISHED ON A DESIGN-BUILD BASIS BY THE ELECTRICIAN.

C. THE INTENT OF DRAWINGS SHOWING SMOKE ALARM LOCATIONS IS TO DEMONSTRATE GENERAL CONFORMANCE WITH APPLICABLE CODES. ELECTRICAL CONTRACTOR TO COORDINATE FINAL PLACEMENT OF SMOKE ALARMS WITH ACTUAL CEILING CONFIGURATION, CEILING FAN LOCATIONS, DISTANCE TO BATHROOMS, DISTANCE TO COOKING APPLIANCES, ETC. AND INSTALL PER THE REQUIREMENTS OF APPLICABLE CODES.

D. WHERE CIRCUITING IS SHOWN TYPICAL FOR MULTIPLE UNITS, COORDINATE BREAKER/WIRE SIZES FOR EQUIPMENT FURNISHED BY OTHERS WITH SHOP DRAWINGS PROVIDED BY THE CONTRACTOR SUPPLYING THE EQUIPMENT. VERIFY BREAKER/WIRE SIZES FOR EQUIPMENT OR APPLIANCE FOR EACH UNIT PRIOR TO ROUGH-IN.

E. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF ALL LIGHT FIXTURES.

F. PROVIDE CONDUIT AND PULL STRING TO APPROVED LOCATION FOR VOICE, DATA, AND CATV CABLES.

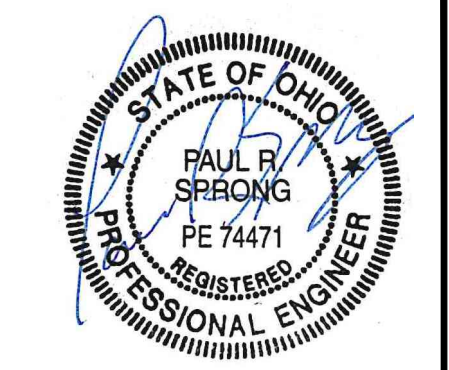
G. CIRCUITING ON DRAWINGS AND PANEL SCHEDULE IS SHOWN TYPICAL FOR SIMILAR UNITS. REFER TO DWELLING UNIT LOAD SUMMARIES FOR INDIVIDUAL DWELLING UNIT LOAD CALCULATIONS.

H. COORDINATE RECEPTACLE, PHONE, AND TV DEVICE PLACEMENT WITH FURNITURE LOCATIONS. VERIFY WITH ARCHITECT PRIOR TO ROUGH IN. LOCATIONS SHOWN ON DRAWINGS ARE INTENDED TO CONVEY DESIGN INTENT, AND DEMONSTRATE GENERAL COMPLIANCE WITH CODE. WHERE ACTUAL STUD LOCATIONS REQUIRE DEVICE LOCATIONS TO BE ADJUSTED, ADDED OR MINOR VARIATIONS AMONG UNITS THAT ARE SHOWN AS 'TYPICAL', ETC. OCCUR, CONTRACTOR, UNDER HIS BASE BID, TO MAKE NECESSARY ADJUSTMENTS / ADDITIONS IN THE FIELD TO MAINTAIN NEC DWELLING UNIT RECEPTACLE SPACING REQUIREMENTS. WHERE ACTUAL WINDOW CONSTRUCTION PROHIBITS THE INSTALLATION OF A WALL RECEPTACLE, PROVIDE FLOOR RECEPTACLE WITHIN 18 INCHES OF THE BASE OF THE WALL. PROVIDE TAMPER PROOF RECEPTACLES AS REQUIRED BY NEC ART. 406.12.

I. LIGHTING INSTALLED IN CLOTHES CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH NEC 410.16.

KEYED SHEET NOTES - UNITS

- TENANT UNIT PANEL LOCATION SHOWN FOR REFERENCE. ACTUAL LOCATION MAY DIFFER BETWEEN UNITS. SEE OVERALL FLOOR PLAN FOR ACTUAL LOCATION OF PANEL IN EACH UNIT.
- LOCATION OF CATV/PHONE DWELLING UNIT DEMARC CABINET. PROVIDE AND INSTALL ALL ITEMS NECESSARY FOR CATV/PHONE, AND RECEPTACLE LOCATED IN THE CABINET. OWNER TO PROVIDE SPEC FOR MULTI-MEDIA PANEL. ALL HOME RUNS FROM UNIT ARE TO BE BROUGHT BACK TO THIS BOX. PROVIDE CC SPECIFIED HOMERUN CABLE FROM UTILITY DEMARC LOCATION IN FIRST FLOOR ELECTRICAL CLOSET TO THIS BOX. CONFIRM LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
- MULTI-SPEED BATH FAN/LIGHT COMBO TO BE INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE A CONSTANT HOT AND (1) SWITCH. UNIT SHALL BE WIRED SO THAT FAN RUNS CONTINUOUSLY, AND RAMP UP TO SECOND SPEED WHEN SWITCH IS TURNED ON.
- SENSORY ITEMS ONLY NEED TO BE INSTALLED IN UNIT 213 & 305. ALL OTHER UNITS TO BE INSTALLED WITHOUT THESE ITEMS.
- INSTALL HARDWIRED DOORBELL. THE NOTIFIER INSIDE THE UNIT SHALL BE BOTH AUDIBLE AND VISUAL.
- PROVIDE AUDIBLE AND VISUAL SMOKE DETECTOR DEVICES.



ISSUANCES	DATE	DESCRIPTION
	01/18/2023	80% CHINA REVIEW
	04/13/2023	PERMIT SET

Geiger House for Veterans / Klekamp Family Residences
 2631 GILBERT AVE.
 CINCINNATI, OH

PR - 10041
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DRAWN BY TAZ	CHECKED BY PRS
PROJECT NO.: 10041	
SCALE: AS NOTED	
DATE: 04-13-2023	
DRAWING TITLE ELECTRICAL ENLARGED UNIT PLANS	
SHEET NO. E300	

HDP

Table with 4 columns: ROOM, MOUNTING SURFACE, VOLTS, BUS AMPS, NEUTRAL, AIC, MAIN BKR, LUGS. Includes a detailed circuit schedule table with columns for CKT #, Breaker Trip/Poles, Circuit Description, Load KVA (A, B, C), and Feeder Raceway and Conductors.

Summary table for HDP showing CONN KVA, CALC KVA, and percentages for LIGHTING, ELECTRIC DRYER, LARGEST MOTOR, and MOTORS. Includes a table for RECEPTACLES, CONTINUOUS, NONCONTINUOUS, HEATING, and COOLING.

CT-CAB (HOUSE)

Table with 4 columns: ROOM, MOUNTING SURFACE, VOLTS, BUS AMPS, NEUTRAL, AIC, MAIN BKR, LUGS. Includes a detailed circuit schedule table for a fused disconnect SD-HDP and SD-ELEV.

Summary table for CT-CAB (HOUSE) showing CONN KVA, CALC KVA, and percentages for LIGHTING, ELECTRIC DRYER, LARGEST MOTOR, and MOTORS. Includes a table for RECEPTACLES, CONTINUOUS, NONCONTINUOUS, HEATING, and COOLING.

CT-CAB (TENANT)

Table with 4 columns: ROOM, MOUNTING SURFACE, VOLTS, BUS AMPS, NEUTRAL, AIC, MAIN BKR, LUGS. Includes a detailed circuit schedule table for a fused disconnect SD-MDP.

Summary table for CT-CAB (TENANT) showing CONN KVA, CALC KVA, and percentages for LIGHTING AND RECEPTACLES, SMALL-APPLIANCE, APPLIANCES, ELECTRIC COOKING, HEATING, and COOLING. Includes a table for CONNECTED LOAD, DWELLING UNITS, DEMAND FACTOR, and BALANCED 3-PHASE LOAD.

MDP

Table with 4 columns: ROOM, MOUNTING SURFACE, VOLTS, BUS AMPS, NEUTRAL, AIC, MAIN BKR, LUGS. Includes a detailed circuit schedule table for 16 wireway risers (#1 to #16).

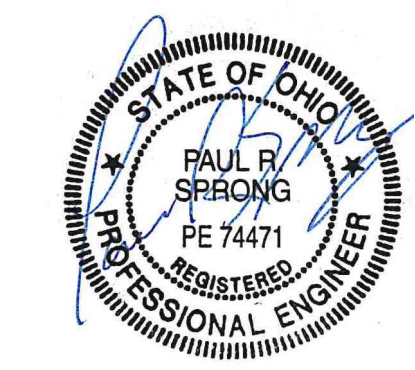
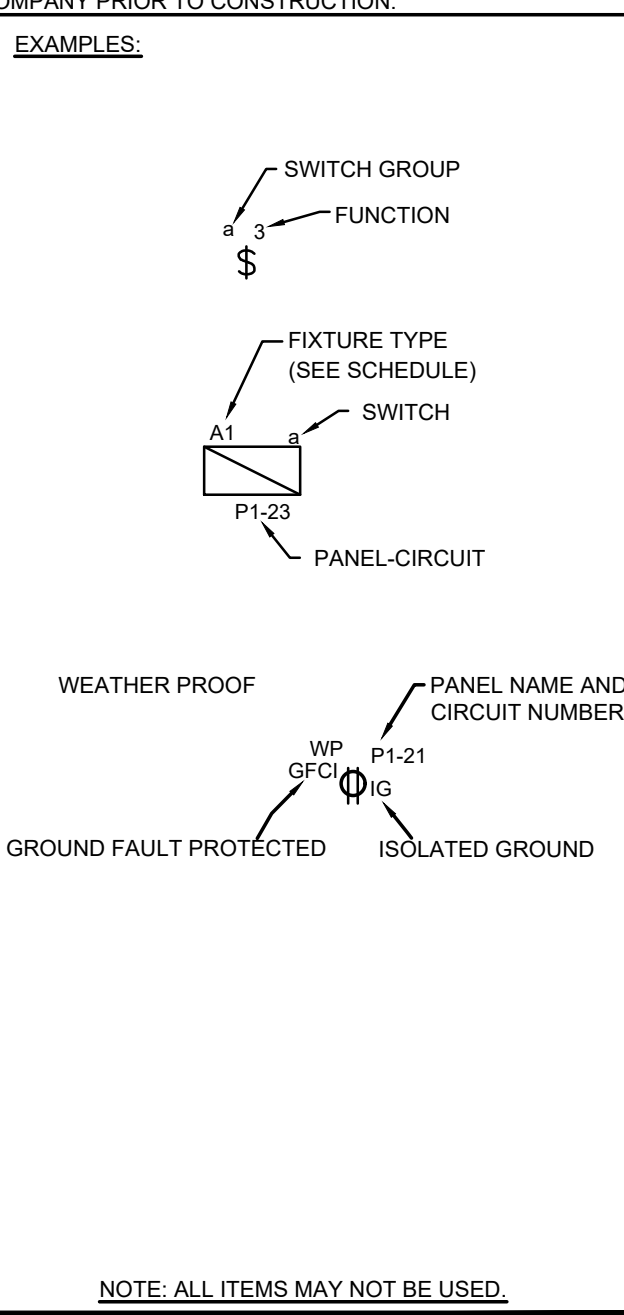
Summary table for MDP showing CONN KVA, CALC KVA, and percentages for LIGHTING AND RECEPTACLES, SMALL-APPLIANCE, APPLIANCES, ELECTRIC COOKING, HEATING, and COOLING. Includes a table for CONNECTED LOAD, DWELLING UNITS, DEMAND FACTOR, and BALANCED 3-PHASE LOAD.

MDP BREAKDOWN table showing 220.84 Multi-Family Calculation with columns for TYP, KVA, Qty, and Total KVA. Includes a sub-table for Total Quantity and Connected Load.

ELECTRICAL LEGEND

Electrical Legend containing symbols and descriptions for various components: SINGLE POLE LIGHT SWITCH, THREE WAY LIGHT SWITCH, DIMMER SWITCH, OCC SENSOR, DUPLEX RECEPTACLE, TRANSFORMER, PADMOUNT TRANSFORMER, AUTOMATIC TRANSFER SWITCH, STANDBY/EMERGENCY GENERATOR, METER BASE, FUSED DISCONNECT, CT CABINET, etc.

ABBREVIATIONS table listing symbols and their corresponding terms: # Number, Ω Ohm, φ Phase, A Amperes, AC Alternating Current, A/C Air Conditioning, AFCI Arc Fault Current Interrupter, AHU Air Handling Unit, AIC Ampere Interrupting Capacity, AL Aluminum, ATS Automatic Transfer Switch, ATC Automatic Temperature Control, AWG American Wire Gauge, C Conduit, CATV Cable Television, CB Critical Branch, CB Circuit Breaker, CKT Circuit, CCTV Closed Circuit Television, CT Current Transformer, CU Condensing Unit, DC Direct Current, DIA Diameter, EC Electrical Contractor, EF Exhaust Fan, ELEV Elevator, EM Emergency, EMT Electrical Metallic Tubing, EPO Emergency Power Off, EWC Electric Water Cooler, EWH Electric Water Heater, FA Fire Alarm, FAA Fire Alarm Annunciator, FLA Full Load Amperes, FMC Flexible Metal Conduit, GF Gas Furnace, GFCI Ground Fault Current Interrupter, GND Ground, GWH Gas Water Heater, HOA Hand-Off-Automatic Switch, HVAC Heating, Ventilation, Air Conditioning, HP Heat Pump, HZ Hertz, IG Isolated Ground, IMC Intermediate Metal Conduit, KCMIL Thousand Circular Mils, KVA Kilovolt-Amperes, LFMCL Liquid Tight Metal Conduit, LTG Lighting, LRA Locked Rotor Amperes, MC Metal Clad Cable, MCB Main Circuit Breaker, MCC Motor Control Center, MLO Main Lug Only, NC Normally Closed, NEC National Electrical Code, NEMA National Electrical Manufacturers Association, NFPA National Fire Protection Association, NL Night Lighting (Egress Illumination), NO Normally Open, CCTV Closed Circuit Television, NTS Not To Scale, P Pole, PB Push Button or Panic Button or Pull Box, PNL Panel, PWR Power, QTY Quantity, REQ Required, RMC Rigid Metal Conduit, RNC Rigid Non-Metallic Conduit, RTU Roof Top Unit, ST Shunt Trip, SW Switch, TSTAT Thermostat, TYP Typical, UG Underground, UL Underwriters Laboratory, UNO Unless Noted Otherwise, V Volt, VA Volt-Amperes, W Watt or Wire, WP Weather Proof, XFMR Transformer.



ISSUANCES table with columns: DATE, DESCRIPTION, REVIEWER. Includes entries for 01/18/2023 and 04/13/2023.

Geiger House for Veterans / Klekamp Family Residences. 2631 GILBERT AVE. CINCINNATI, OH. PR - 10041. ENGINEERED BUILDING SYSTEMS INC. Shared Success Through Collaboration and Efficiency. 515 Monmouth Street, Suite 201 Newport, KY 41071 (859) 281-0555 MEP Consulting Services, Inc. in OH Copyright © 2015.

Project information section including DRAWN BY (TAZ), CHECKED BY (PRS), PROJECT NO.: 10041, SCALE: AS NOTED, DATE: 04-13-2023, DRAWING TITLE (ELECTRICAL DETAILS), and SHEET NO. (E401).

Vertical text on the left margin: 7A - Project Description 10000 - 10001 10041 - Geiger House for Veterans - The Geiger House for Veterans - Cincinnati, OH - Construction Documents 10041 - E401 - ELECTRICAL DETAILS - See EBS. P14 Date/Time: Apr 13, 2023 10:16:45 AM - By: EBS - E401 - These drawings and specifications are NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING. GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.



ISSUANCES	DATE	DESCRIPTION
	01/18/2023	60% OHPA Review
	04/13/2023	PERMIT SET

H1							
ROOM	MOUNTING	SURFACE	VOLTS	208Y/120V 3P 4W	AIC	T.B.D.	
FED FROM	HDP		BUS AMPS	200	MAIN BKR	MLO	
NOTE			NEUTRAL	100%	LUGS	STANDARD	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	5	DRYER	a 2	20/2	2.79	HP-R-1.5
3				b 4			
5	30/2	5	DRYER	c 6	40/2	8.17	AHU-R-1.5
7				a 8			
9	30/2	5	DRYER	b 10	20/2	2.25	H-1
11				c 12			
13	30/2	5	DRYER	a 14	20/2	2.25	H-1
15				b 16			
17	20/1	1.5	LAUNDRY	c 18	20/2	0.1	HP-MS-2
19	20/1	1.5	LAUNDRY	a 20			
21	20/1	1.5	LAUNDRY	b 22	20/1	0	SPACE
23	20/1	1.5	LAUNDRY	c 24	20/1	0	SPACE
25	20/1	1.62	RECEPTACLE	a 26	20/1	0	SPACE
27	20/1	0	SPACE	b 28	20/1	0.36	GDWH1
29	20/1	0	SPACE	c 30	20/1	0.603	LIGHTING
31	20/1	0	SPACE	a 32	20/1	0.18	CIRCULATION PUMP
33	20/1	0	SPACE	b 34	20/1	0	SPACE
35	20/1	0	SPACE	c 36	20/1	0	SPACE
37	20/1	0	SPACE	a 38	20/1	0	SPACE
39	20/2	0	SPACE	b 40	20/1	0	SPACE
41				c 42	20/1	0	SPACE

	CONN KVA	CALC KVA		CONN KVA	CALC KVA	
LIGHTING	0.603	0.754	(125%)	LARGEST MOTOR	2.79	0.697 (25%)
ELECTRIC	20	20	(100%)	RECEPTACLES	1.62	1.62 (50%>10)
DRYER				CONTINUOUS	0.54	0.675 (125%)
				HEATING	15.6	15.6 (100%)
				COOLING	2.89	0 (0%)
				TOTAL LOAD		43.4
				BALANCED 3-PHASE LOAD		120 A
				PHASE A		117%
				PHASE B		88.7%
				PHASE C		93.9%

H2							
ROOM	MOUNTING	SURFACE	VOLTS	208Y/120V 3P 4W	AIC	T.B.D.	
FED FROM	HDP		BUS AMPS	200	MAIN BKR	MLO	
NOTE			NEUTRAL	100%	LUGS	STANDARD	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.9	RECEPTACLE	a 2	45/2	8.9	VTAC-1.5
3	20/1	1.44	RECEPTACLE	b 4			
5	20/1	0.36	RECEPTACLE	c 6	20/2	2.25	H-1
7	20/1	0.72	RECEPTACLE	a 8			
9	20/1	0.9	RECEPTACLE	b 10	60/2	10.8	AHU-R-3a
11	20/1	0.72	RECEPTACLE	c 12			
13	20/1	1.07	LIGHTING	a 14	45/2	9.26	AHU-R-3b
15	20/1	0.901	E-3, LIGHTING	b 16			
17	20/1	0.1	FIRE ALARM PANEL	c 18	45/2	8.9	VTAC-1.5
19	20/1	0.36	RECEPTACLE	a 20			
21	20/1	0	SPACE	b 22	20/2	2.25	H-1
23	20/1	0	SPACE	c 24			
25	20/1	0	SPACE	a 26	30/2	4.22	HP-R-3
27	20/1	0	SPACE	b 28			
29	20/1	0	SPACE	c 30	20/2	0	SPACE
31	20/1	0.1	HOTBOX	a 32			
33	20/1	0.1	120V CIRCUIT	b 34	20/1	0	SPACE
35	20/1	0.303	LIGHTING, LIGHTING TIMECLOCK	c 36	20/1	0	SPACE
37	20/1	0.048	LIGHTING	a 38	20/1	0	SPACE
39	20/2	0.456	LIGHTING	b 40	20/1	0	SPACE
41				c 42	20/1	0	SPACE

	CONN KVA	CALC KVA		CONN KVA	CALC KVA	
LIGHTING	2.67	3.34	(125%)	RECEPTACLES	5.4	5.4 (50%>10)
LARGEST MOTOR	9.26	2.31	(25%)	NONCONTINUOUS	0.101	0.101 (100%)
MOTORS	0.3	0.3	(100%)	HEATING	46.6	46.6 (100%)
				COOLING	31.3	0 (0%)
				TOTAL LOAD		58.1
				BALANCED 3-PHASE LOAD		161 A
				PHASE A		109%
				PHASE B		116%
				PHASE C		74.8%

H3							
ROOM	MOUNTING	SURFACE	VOLTS	208Y/120V 3P 4W	AIC	T.B.D.	
FED FROM	HDP		BUS AMPS	200	MAIN BKR	MLO	
NOTE			NEUTRAL	100%	LUGS	STANDARD	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	1.44	RECEPTACLE	a 2	25/2	3.29	VTAC-2a
3	20/1	0.72	RECEPTACLE	b 4			
5	20/1	1.26	RECEPTACLE	c 6	45/2	9.01	VTAC-2b
7	20/1	0.9	RECEPTACLE	a 8			
9	20/1	0.955	LIGHTING	b 10	25/2	3.29	VTAC-2a
11	20/1	0.959	LIGHTING	c 12			
13	20/1	0	SPACE	a 14	45/2	9.01	VTAC-2b
15	20/1	0	SPACE	b 16			
17	20/1	0	SPACE	c 18	20/2	0	SPACE
19	20/1	0	SPACE	a 20			
21	20/1	0	SPACE	b 22	20/2	2.25	H-1
23	20/1	0	SPACE	c 24			
25	20/1	0	SPACE	a 26	20/1	0	SPACE
27	20/1	0	SPACE	b 28	20/1	0	SPACE
29	20/1	0	SPACE	c 30	20/1	0	SPACE
31	20/1	0	SPACE	a 32	20/1	0	SPACE
33	20/1	0	SPACE	b 34	20/1	0	SPACE
35	20/1	0	SPACE	c 36	20/1	0	SPACE
37	20/1	0	SPACE	a 38	20/1	0	SPACE
39	20/1	0	SPACE	b 40	20/1	0	SPACE
41	20/1	0	SPACE	c 42	20/1	0	SPACE

	CONN KVA	CALC KVA		CONN KVA	CALC KVA	
LIGHTING	1.91	2.39	(125%)	RECEPTACLES	4.32	4.32 (50%>10)
LARGEST MOTOR	9.01	2.25	(25%)	HEATING	26.8	26.8 (100%)
				COOLING	24.6	0 (0%)
				TOTAL LOAD		35.8
				BALANCED 3-PHASE LOAD		99.4 A
				PHASE A		117%
				PHASE B		96.9%
				PHASE C		85.9%

E							
ROOM	MOUNTING	SURFACE	VOLTS	208Y/120V 3P 4W	AIC	T.B.D.	
FED FROM	HDP		BUS AMPS	100	MAIN BKR	MLO	
NOTE			NEUTRAL	100%	LUGS	STANDARD	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	1.2	ELEVATOR CONTROLS	a 2	20/1	0	SPACE
3	20/1	0.054	LIGHTING	b 4	20/1	0	SPACE
5	20/1	0.5	ELEVATOR SUMP PUMP	c 6	20/1	0	SPACE
7	20/1	0.18	RECEPTACLE	a 8	20/1	0	SPACE
9	20/1	0.18	RECEPTACLE	b 10	20/1	0	SPACE
11	20/1	0.022	LIGHTING	c 12	20/1	0	SPACE
13	20/1	0.054	LIGHTING	a 14	20/1	0	SPACE
15	20/1	0.18	RECEPTACLE	b 16	20/1	0	SPACE
17	20/1	0	SPACE	c 18	20/1	0	SPACE
19	20/1	0	SPACE	a 20	20/1	0	SPACE
21	20/1	0	SPACE	b 22	20/1	0	SPACE
23	20/1	0	SPACE	c 24	20/1	0	SPACE

	CONN KVA	CALC KVA		CALC KVA	
LIGHTING	1.33	1.66	(125%)	TOTAL LOAD	2.7
RECEPTACLES	1.04	1.04	(50%>10)	BALANCED 3-PHASE LOAD	7.5 A
				PHASE A	182%
				PHASE B	52.4%
				PHASE C	66%

**Geiger House for Veterans / Klekamp
Family Residences**
2631 GILBERT AVE.
CINCINNATI, OH

PR - 10041

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DRAWN BY TAZ	CHECKED BY PRS
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PROJECT NO.: 10041

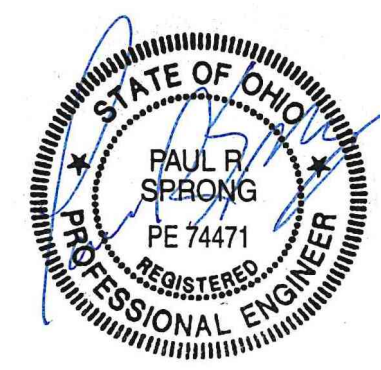
SCALE: AS NOTED

DATE: 04-13-2023

DRAWING TITLE
ELECTRICAL DETAILS

SHEET NO.
E402

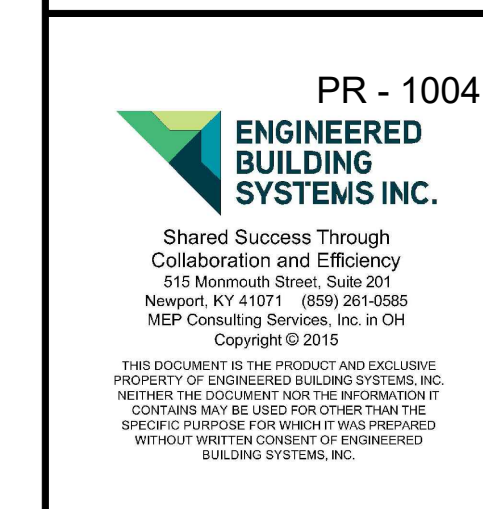
2A - Project Description: 1000A-1000A 10041 - The Geiger House for Veterans - Cincinnati OH - Construction Documents 10041-E402-ELECTRICAL DETAILS-REV. EBS. R14 Date/Time: Apr 13, 2023-15:59:01 - By: km-robkl
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ISSUANCES	DATE	DESCRIPTION
	01/18/2023	60% OCHA Review
	04/13/2023	PERMIT SET

U003	U210
U004	U211
U103	U212
U105	U213
U106	U303
U108	U305
U109	U306
U110	U308
U203	U310
U205	U311
U206	U312
U207	U313
U208	

Geiger House for Veterans / Klekamp Family Residences
 2631 GILBERT AVE.
 CINCINNATI, OH



DRAWN BY: TAZ
 CHECKED BY: PRS

PROJECT NO.: 10041

SCALE: AS NOTED

DATE: 04-13-2023

DRAWING TITLE
ELECTRICAL DETAILS

SHEET NO.
E403

TYP 1							
ROOM MOUNTING FLUSH		VOLTS 208Y/120V 3P 4W		AIC T.B.D.			
FED FROM NOTE		BUS AMPS 150 NEUTRAL 100%		MAIN BKR MLO LUGS FEEDTHRU			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	6.16	VTAC-1	2	50/2	10	RANGE
3				4			
5	15/1	1.06	E-1, LIGHTING, RECEPTACLE	6	20/1	0.5	FRIG.
7	15/1	1.31	E-2, LIGHTING, RECEPTACLE	8	20/1	1.8	MICROWAVE
9	20/1	0.18	BATH	10	20/1	1.5	SMALL APPLIANCE
11	20/1	0	SPACE	12	20/1	1.5	SMALL APPLIANCE
13	20/1	0	SPACE	14	20/1	0	SPACE
15	20/1	0	SPACE	16	20/1	0	SPACE
17	20/1	0	SPACE	18	20/1	0	SPACE
19	20/1	0	SPACE	20	20/1	0	SPACE
21	20/1	0	SPACE	22	20/1	0	SPACE
23	20/1	0	SPACE	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)				
	CONN KVA		CONN KVA	CALC KVA
LIGHTING AND RECEPTACLES	1.65	550 SF (3 VA/SF)	GENERAL LOAD UP TO 10 KVA	10 (100%)
SMALL-APPLIANCE	3		OVER 10 KVA	6.95 (40%)
APPLIANCES	2.3		MAX HEATING OR COOLING	6.16 (220.82(C)(1))
ELECTRIC COOKING	10			
TOTAL GENERAL LOAD	17		TOTAL LOAD	18.9
			BALANCED 3-PHASE LOAD	52.6 A
			PHASE A	140%
			PHASE B	125%
			PHASE C	35.3%

APPLIANCE BREAKDOWN		HVAC Load Calculation		KVA	NEC Code
TYPE	KVA	Heating		6.16	
REFRIGERATOR	0.5	Cooling		6.16	
MICROWAVE	1.8	Mini Split		0.00	
TOTAL	2.3	100% of Nameplate Rating of AC and Cooling		6.16	220.82 C(1)
		100% of Nameplate Rating of Heat Pump w/o Supplemental Heat		0.00	220.82 C(2)
		Heat Pump plus 65% of Supplemental Heat		0.00	220.82 C(3)
		Largest Heating or Cooling Load		6.16	220.84 C(5)

Multi-Family Dwelling Unit Calc		KVA
Total General Load		17.0
Largest Heating or Cooling Load 220.84		6.16
220.84 CONNECTED LOAD CALC		23.11

TYP 2							
ROOM MOUNTING FLUSH		VOLTS 208Y/120V 3P 4W		AIC T.B.D.			
FED FROM NOTE		BUS AMPS 150 NEUTRAL 100%		MAIN BKR MLO LUGS FEEDTHRU			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	6.16	VTAC-1	2	50/2	10	RANGE
3				4			
5	15/1	1.06	E-1, LIGHTING, RECEPTACLE	6	20/1	0.5	FRIG.
7	15/1	1.31	E-2, LIGHTING, RECEPTACLE	8	20/1	1.8	MICROWAVE
9	20/1	0.18	BATH	10	20/1	1.5	SMALL APPLIANCE
11	20/1	0	SPACE	12	20/1	1.5	SMALL APPLIANCE
13	20/1	0	SPACE	14	20/1	0	SPACE
15	20/1	0	SPACE	16	20/1	0	SPACE
17	20/1	0	SPACE	18	20/1	0	SPACE
19	20/1	0	SPACE	20	20/1	0	SPACE
21	20/1	0	SPACE	22	20/1	0	SPACE
23	20/1	0	SPACE	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)				
	CONN KVA		CONN KVA	CALC KVA
LIGHTING AND RECEPTACLES	1.65	550 SF (3 VA/SF)	GENERAL LOAD UP TO 10 KVA	10 (100%)
SMALL-APPLIANCE	3		OVER 10 KVA	6.95 (40%)
APPLIANCES	2.3		MAX HEATING OR COOLING	6.16 (220.82(C)(1))
ELECTRIC COOKING	10			
TOTAL GENERAL LOAD	17		TOTAL LOAD	18.9
			BALANCED 3-PHASE LOAD	52.6 A
			PHASE A	140%
			PHASE B	125%
			PHASE C	35.3%

APPLIANCE BREAKDOWN		HVAC Load Calculation		KVA	NEC Code
TYPE	KVA	Heating		6.16	
REFRIGERATOR	0.5	Cooling		6.16	
MICROWAVE	1.8	Mini Split		0.00	
TOTAL	2.3	100% of Nameplate Rating of AC and Cooling		6.16	220.82 C(1)
		100% of Nameplate Rating of Heat Pump w/o Supplemental Heat		0.00	220.82 C(2)
		Heat Pump plus 65% of Supplemental Heat		0.00	220.82 C(3)
		Largest Heating or Cooling Load		6.16	220.84 C(5)

Multi-Family Dwelling Unit Calc		KVA
Total General Load		17.0
Largest Heating or Cooling Load 220.84		6.16
220.84 CONNECTED LOAD CALC		23.11

TYP 3							
ROOM MOUNTING FLUSH		VOLTS 208Y/120V 3P 4W		AIC T.B.D.			
FED FROM NOTE		BUS AMPS 150 NEUTRAL 100%		MAIN BKR MLO LUGS FEEDTHRU			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	6.16	VTAC-1	2	50/2	10	RANGE
3				4			
5	15/1	1.06	E-1, LIGHTING, RECEPTACLE	6	20/1	0.5	FRIG.
7	15/1	1.31	E-2, LIGHTING, RECEPTACLE	8	20/1	1.8	MICROWAVE
9	20/1	0.18	BATH	10	20/1	1.5	SMALL APPLIANCE
11	20/1	0	SPACE	12	20/1	1.5	SMALL APPLIANCE
13	20/1	0	SPACE	14	20/1	0	SPACE
15	20/1	0	SPACE	16	20/1	0	SPACE
17	20/1	0	SPACE	18	20/1	0	SPACE
19	20/1	0	SPACE	20	20/1	0	SPACE
21	20/1	0	SPACE	22	20/1	0	SPACE
23	20/1	0	SPACE	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)				
	CONN KVA		CONN KVA	CALC KVA
LIGHTING AND RECEPTACLES	1.65	550 SF (3 VA/SF)	GENERAL LOAD UP TO 10 KVA	10 (100%)
SMALL-APPLIANCE	3		OVER 10 KVA	6.95 (40%)
APPLIANCES	2.3		MAX HEATING OR COOLING	6.16 (220.82(C)(1))
ELECTRIC COOKING	10			
TOTAL GENERAL LOAD	17		TOTAL LOAD	18.9
			BALANCED 3-PHASE LOAD	52.6 A
			PHASE A	140%
			PHASE B	125%
			PHASE C	35.3%

APPLIANCE BREAKDOWN		HVAC Load Calculation		KVA	NEC Code
TYPE	KVA	Heating		6.16	
REFRIGERATOR	0.5	Cooling		6.16	
MICROWAVE	1.8	Mini Split		0.00	
TOTAL	2.3	100% of Nameplate Rating of AC and Cooling		6.16	220.82 C(1)
		100% of Nameplate Rating of Heat Pump w/o Supplemental Heat		0.00	220.82 C(2)
		Heat Pump plus 65% of Supplemental Heat		0.00	220.82 C(3)
		Largest Heating or Cooling Load		6.16	220.84 C(5)

Multi-Family Dwelling Unit Calc		KVA
Total General Load		17.0
Largest Heating or Cooling Load 220.84		6.16
220.84 CONNECTED LOAD CALC		23.11

TYP 4							
ROOM MOUNTING FLUSH		VOLTS 208Y/120V 3P 4W		AIC T.B.D.			
FED FROM NOTE		BUS AMPS 150 NEUTRAL 100%		MAIN BKR MLO LUGS FEEDTHRU			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	6.16	VTAC-1	2	50/2	10	RANGE
3				4			
5	15/1	1.06	E-1, LIGHTING, RECEPTACLE	6	20/1	0.5	FRIG.
7	15/1	1.49	E-2, LIGHTING, RECEPTACLE	8	20/1	1.8	MICROWAVE
9	20/1	0.18	BATH	10	20/1	1.5	SMALL APPLIANCE
11	20/1	0	SPACE	12	20/1	1.5	SMALL APPLIANCE
13	20/1	0	SPACE	14	20/1	0	SPACE
15	20/1	0	SPACE	16	20/1	0	SPACE
17	20/1	0	SPACE	18	20/1	0	SPACE
19	20/1	0	SPACE	20	20/1	0	SPACE
21	20/1	0	SPACE	22	20/1	0	SPACE
23	20/1	0	SPACE	24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)				
	CONN KVA		CONN KVA	CALC KVA
LIGHTING AND RECEPTACLES	1.65	550 SF (3 VA/SF)	GENERAL LOAD UP TO 10 KVA	10 (100%)
SMALL-APPLIANCE	3		OVER 10 KVA	6.95 (40%)
APPLIANCES	2.3		MAX HEATING OR COOLING	6.16 (220.82(C)(1))
ELECTRIC COOKING	10			
TOTAL GENERAL LOAD	17		TOTAL LOAD	18.9
			BALANCED 3-PHASE LOAD	52.6 A
			PHASE A	141%
			PHASE B	124%
			PHASE C	35.1%

APPLIANCE BREAKDOWN		HVAC Load Calculation		KVA	NEC Code
TYPE	KVA	Heating		6.16	
REFRIGERATOR	0.5	Cooling		6.16	
MICROWAVE	1.8	Mini Split		0.00	
TOTAL	2.3	100% of Nameplate Rating of AC and Cooling		6.16	220.82 C(1)
		100% of Nameplate Rating of Heat Pump w/o Supplemental Heat		0.00	220.82 C(2)
		Heat Pump plus 65% of Supplemental Heat		0.00	220.82 C(3)
		Largest Heating or Cooling Load		6.16	220.84 C(5)

Multi-Family Dwelling Unit Calc		KVA
Total General Load		17.0
Largest Heating or Cooling Load 220.84		6.16
220.84 CONNECTED LOAD CALC		23.11

7A - Project: Electrical 10004 - 10041 10041 - Table: House for Veterans - Circuit: OHA - Construction Document: 10041-E403 ELECTRICAL DETAILS - Rev: 04/13/2023 - 15:59:00 - By: tim.schick
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7A - Project Electrical (1000-1004) 1004 - The Geiger House for Veterans - Client: OVA Construction Documents 1004- E405 Electrical Details for EBS. P14 P14/1/1/1/1 - 11/13/2023 - 10:51 AM - By: bts-iback
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TYP 9

ROOM MOUNTING FLUSH VOLTS 208Y/120V 3P 4W AIC T.B.D.
 BUS AMPS 150 MAIN BKR MLO
 FED FROM NEUTRAL 100% LUGS FEEDTHRU

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/2	6.16	VTAC-1	a 2	50/2	10	RANGE
3				b 4			
5	15/1	1.06	E-1, LIGHTING, RECEPTACLE	c 6	20/1	0.5	FRIG.
7	15/1	1.46	E-2, LIGHTING, RECEPTACLE	d 8	20/1	1.8	MICROWAVE
9	20/1	0.18	BATH	b 10	20/1	1.5	SMALL APPLIANCE
11	20/1	0	SPACE	c 12	20/1	1.5	SMALL APPLIANCE
13	20/1	0	SPACE	d 14	20/1	0	SPACE
15	20/1	0	SPACE	b 16	20/1	0	SPACE
17	20/1	0	SPACE	c 18	20/1	0	SPACE
19	20/1	0	SPACE	d 20	20/1	0	SPACE
21	20/1	0	SPACE	b 22	20/1	0	SPACE
23	20/1	0	SPACE	c 24	20/1	0	SPACE

OPTIONAL DWELLING UNIT CALCULATION (NEC 220.82)

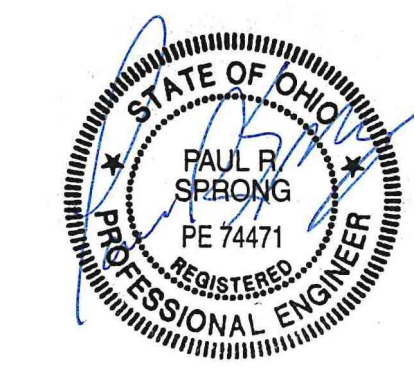
	CONN KVA	550 SF (3 VA/SF)	GENERAL LOAD UP TO 10 KVA	CONN KVA	CALC KVA	
LIGHTING AND RECEPTACLES	1.65		10	10	17.0	(100%)
SMALL-APPLIANCE	3		OVER 10 KVA	6.95	2.78	(40%)
APPLIANCES	2.3		MAX HEATING OR COOLING		6.16	(220.82(C)(1))
ELECTRIC COOKING	10					
TOTAL GENERAL LOAD	17		TOTAL LOAD		18.9	
			BALANCED 3-PHASE LOAD		52.6 A	
			PHASE A		141%	
			PHASE B		124%	
			PHASE C		35.1%	

APPLIANCE BREAKDOWN	
TYPE	KVA
REFRIGERATOR	0.5
MICROWAVE	1.8
TOTAL	2.3

HVAC Load Calculation		KVA	NEC Code
Heating		6.16	
Cooling		6.16	
Mini Split		0.00	
100% of Nameplate Rating of AC and Cooling		6.16	220.82 C(1)
Largest Heating or Cooling Load		6.16	220.84 C(5)
Heat Pump plus 65% of Supplemental Heat		6.16	220.84 C(3)

TYP 9
U104
U204
U304

Multi-Family Dwelling Unit Calc	KVA
Total General Load	17.0
Largest Heating or Cooling Load 220.84	6.16
220.84 CONNECTED LOAD CALC	23.11



ISSUANCES	DATE	DESCRIPTION
	01/18/2023	60% OHPA Review
	04/13/2023	PERMIT SET

Geiger House for Veterans / Klekamp Family Residences
 2631 GILBERT AVE.
 CINCINNATI, OH

PR - 10041

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DRAWN BY TAZ	CHECKED BY PRS
PROJECT NO.: 10041	
SCALE: AS NOTED	
DATE: 04-13-2023	
DRAWING TITLE ELECTRICAL DETAILS	
SHEET NO. E405	



RISER #7

ROOM		VOLTS 208Y/120V 3P 4W		AIC T.B.D.		
MOUNTING		FLUSH		LUGS STANDARD		
FED FROM		MDP				
NOTE						
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS
			A	B	C	
1	150/3	PANEL U209	23.1	19.5	6.11	3#2/0 AL,#2/0 AL N,#4 AL G
TOTAL CONNECTED KVA BY PHASE			23.1	19.5	6.11	
OPTIONAL MULTIFAMILY DWELLING CALCULATION (NEC 220.84)						
KVA			KVA			
LIGHTING AND RECEPTACLES	3.6	1,200 SF (3 VA/SF)	CONNECTED LOAD		46.5	
SMALL-APPLIANCE	6		DWELLING UNITS		2	
APPLIANCES	4.6		DEMAND FACTOR		(NEC 220.85)	
ELECTRIC COOKING	20		CALCULATED LOAD		31.4	
HEATING	12.3	(100%)	BALANCED 3-PHASE LOAD		87.1 A	
COOLING	12.3	(0%)				

Riser #7

220.84 Multi-Family Calculation	KVA	Qty	Total KVA
TYP 5	23.26	2	46.52
Total Quantity and Connected Load =		2	46.5

RISER #8

ROOM		VOLTS 208Y/120V 3P 4W		AIC T.B.D.		
MOUNTING		FLUSH		LUGS STANDARD		
FED FROM		MDP				
NOTE						
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS
			A	B	C	
1	150/3	PANEL U106	33.6	29.3	9.16	3#2/0 AL,#2/0 AL N,#4 AL G
TOTAL CONNECTED KVA BY PHASE			33.6	29.3	9.16	
OPTIONAL MULTIFAMILY DWELLING CALCULATION (NEC 220.84)						
KVA			KVA			
LIGHTING AND RECEPTACLES	4.95	1,650 SF (3 VA/SF)	CONNECTED LOAD		69.3	
SMALL-APPLIANCE	9		DWELLING UNITS		3	
APPLIANCES	6.9		DEMAND FACTOR		(45%)	
ELECTRIC COOKING	30		CALCULATED LOAD		31.2	
HEATING	18.5	(100%)	BALANCED 3-PHASE LOAD		86.6 A	
COOLING	18.5	(0%)				

Riser #8

220.84 Multi-Family Calculation	KVA	Qty	Total KVA
TYP 1	23.11	1	23.11
TYP 2	23.11	2	46.22
Total Quantity and Connected Load =		3	69.3

RISER #9

ROOM		VOLTS 208Y/120V 3P 4W		AIC T.B.D.		
MOUNTING		FLUSH		LUGS STANDARD		
FED FROM		MDP				
NOTE						
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS
			A	B	C	
1	150/3	PANEL U207	22.4	19.5	6.11	3#2/0 AL,#2/0 AL N,#4 AL G
TOTAL CONNECTED KVA BY PHASE			22.4	19.5	6.11	
OPTIONAL MULTIFAMILY DWELLING CALCULATION (NEC 220.84)						
KVA			KVA			
LIGHTING AND RECEPTACLES	3.3	1,100 SF (3 VA/SF)	CONNECTED LOAD		46.2	
SMALL-APPLIANCE	6		DWELLING UNITS		2	
APPLIANCES	4.6		DEMAND FACTOR		(NEC 220.85)	
ELECTRIC COOKING	20		CALCULATED LOAD		31.2	
HEATING	12.3	(100%)	BALANCED 3-PHASE LOAD		86.6 A	
COOLING	12.3	(0%)				

Riser #9

220.84 Multi-Family Calculation	KVA	Qty	Total KVA
TYP 2	23.11	2	46.22
Total Quantity and Connected Load =		2	46.2

RISER #10

ROOM		VOLTS 208Y/120V 3P 4W		AIC T.B.D.		
MOUNTING		FLUSH		LUGS STANDARD		
FED FROM		MDP				
NOTE						
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS
			A	B	C	
1	150/3	PANEL U105	33.6	29.3	9.16	3#2/0 AL,#2/0 AL N,#4 AL G
TOTAL CONNECTED KVA BY PHASE			33.6	29.3	9.16	
OPTIONAL MULTIFAMILY DWELLING CALCULATION (NEC 220.84)						
KVA			KVA			
LIGHTING AND RECEPTACLES	4.95	1,650 SF (3 VA/SF)	CONNECTED LOAD		69.3	
SMALL-APPLIANCE	9		DWELLING UNITS		3	
APPLIANCES	6.9		DEMAND FACTOR		(45%)	
ELECTRIC COOKING	30		CALCULATED LOAD		31.2	
HEATING	18.5	(100%)	BALANCED 3-PHASE LOAD		86.6 A	
COOLING	18.5	(0%)				

Riser #10

220.84 Multi-Family Calculation	KVA	Qty	Total KVA
TYP 2	23.11	3	69.33
Total Quantity and Connected Load =		3	69.3

RISER #11

ROOM		VOLTS 208Y/120V 3P 4W		AIC T.B.D.		
MOUNTING		FLUSH		LUGS STANDARD		
FED FROM		MDP				
NOTE						
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS
			A	B	C	
1	150/3	PANEL U205	22.4	19.5	6.11	3#2/0 AL,#2/0 AL N,#4 AL G
TOTAL CONNECTED KVA BY PHASE			22.4	19.5	6.11	
OPTIONAL MULTIFAMILY DWELLING CALCULATION (NEC 220.84)						
KVA			KVA			
LIGHTING AND RECEPTACLES	3.3	1,100 SF (3 VA/SF)	CONNECTED LOAD		46.2	
SMALL-APPLIANCE	6		DWELLING UNITS		2	
APPLIANCES	4.6		DEMAND FACTOR		(NEC 220.85)	
ELECTRIC COOKING	20		CALCULATED LOAD		31.2	
HEATING	12.3	(100%)	BALANCED 3-PHASE LOAD		86.6 A	
COOLING	12.3	(0%)				

Riser #11

220.84 Multi-Family Calculation	KVA	Qty	Total KVA
TYP 2	23.11	2	46.22
Total Quantity and Connected Load =		2	46.2

RISER #12

ROOM		VOLTS 208Y/120V 3P 4W		AIC T.B.D.		
MOUNTING		FLUSH		LUGS STANDARD		
FED FROM		MDP				
NOTE						
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS
			A	B	C	
1	150/3	PANEL U104	34	29.3	9.16	3#2/0 AL,#2/0 AL N,#4 AL G
TOTAL CONNECTED KVA BY PHASE			34	29.3	9.16	
OPTIONAL MULTIFAMILY DWELLING CALCULATION (NEC 220.84)						
KVA			KVA			
LIGHTING AND RECEPTACLES	4.95	1,650 SF (3 VA/SF)	CONNECTED LOAD		69.3	
SMALL-APPLIANCE	9		DWELLING UNITS		3	
APPLIANCES	6.9		DEMAND FACTOR		(45%)	
ELECTRIC COOKING	30		CALCULATED LOAD		31.2	
HEATING	18.5	(100%)	BALANCED 3-PHASE LOAD		86.6 A	
COOLING	18.5	(0%)				

Riser #12

220.84 Multi-Family Calculation	KVA	Qty	Total KVA
TYP 6	23.11	3	69.33
Total Quantity and Connected Load =		3	69.3

ISSUANCES	DATE	DESCRIPTION
01/18/2023	60% OHPA Review	
04/13/2023	PERMIT SET	

Geiger House for Veterans / Klekamp Family Residences

2631 GILBERT AVE.
CINCINNATI, OH

PR - 10041

ENGINEERED BUILDING SYSTEMS INC.

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DRAWN BY TAZ	CHECKED BY PRS
PROJECT NO.: 10041	
SCALE: AS NOTED	
DATE: 04-13-2023	
DRAWING TITLE ELECTRICAL DETAILS	
SHEET NO. E407	

7A - Project: Electrical 10004 - 10041 10041 - Table: Riser #7 - The Geiger House for Veterans - Cincinnati, OH - Construction Documents 10041 - E407 ELECTRICAL DETAILS - EBS, Inc. Date: 04/13/2023 - By: [Signature] - For: [Signature] - These drawings and specifications are not authorized to be used as contract documents. These drawings have been prepared to demonstrate compliance with applicable codes and are intended to provide the authorities having jurisdiction with information to determine code compliance. The installing contractor is responsible for the compliance or liability for the compliance or condition of existing equipment and wiring. GENERAL CONTRACTOR, ETC. EBS ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE COMPLIANCE OR CONDITION OF EXISTING EQUIPMENT AND WIRING.

