

ALURA APARTMENTS - VILLAGE AT DISCOVERY PARK

GARAGE G6 TYPE "A"

ALURA APARTMENTS - VILLAGE AT DISCOVERY PARK

GARAGE BUILDING "A"

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

PROJECT INFORMATION

SITE DATA	
SITE ZONING:	(SEE CIVL)
SITE SIZE:	(SEE CIVL)
SITE DENSITY:	(SEE CIVL)
NO. OF PARKING SPACES:	(SEE CIVL)
CODES AND REGULATIONS	
BLDG. & RELATED CODES:	2018 IBC, IPC, IMC & 2018 IECC
ELECT. CODE:	2017 NEC
FIRE CODE:	2018 IFC
ACCESSIBILITY:	ICC/ANSI A117.1- 2009
MISC.:	ALL APPLICABLE FEDERAL, STATE & LOCAL CODES, LAWS & ORDINANCES
BUILDING CODE DATA	
USE GROUP:	U (PRIVATE GARAGES)
CONSTRUCTION TYPE:	VB
EXT. WALL CONSTRUCTION:	NON-RATED
OTHER WALL CONSTRUCTION:	SEPARATION WALLS = NON-RATED
TOTAL ALLOW. AREA:	5,500 SF/FLOOR
TOTAL ACTUAL AREA:	1,135 SF
ALLOW. HEIGHT & FLOORS:	40'-0" / 1 STORY
ACTUAL HEIGHT & FLOORS:	19'-4" / 1 STORY
HEIGHT/AREA ADJUSTMENTS:	NONE REQUIRED, NONE TAKEN
SPRINKLER SYSTEM:	N/A

INDEX TO DRAWINGS

GARAGE BUILDING INDEX TO DRAWINGS					
Sheet Number	Sheet Name	Sheet Issue Date	Current Revision Date	Current Revision Description	
1 - COVER SHEET					
0.0GA	GARAGE BUILDING "A" COVER SHEET	15 APR 2025	15 APR 2025	ISSUE SET	
S01.0GA	SPECIFICATIONS	15 APR 2025	15 APR 2025	ISSUE SET	
S01.1GA	SPECIFICATIONS	15 APR 2025	15 APR 2025	ISSUE SET	
S01.2GA	SPECIFICATIONS	15 APR 2025	15 APR 2025	ISSUE SET	
2 - STRUCTURAL (BY CROCKETT ENGINEERING CONSULTANTS)					
G0100	GENERAL STRUCTURAL DATA	15 APR 2025	15 APR 2025	ISSUE SET	
G0200	FOUNDATION PLAN (BLDG. G1)	15 APR 2025	15 APR 2025	ISSUE SET	
G0200A	FOUNDATION PLAN (BLDGs. G4, G6, G7 & G8)	15 APR 2025	15 APR 2025	ISSUE SET	
G0200B	FOUNDATION PLAN (BLDG. G10)	15 APR 2025	15 APR 2025	ISSUE SET	
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3 - ARCHITECTURAL					
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A2.0GA	GARAGE "A" ROOF PLAN	15 APR 2025	15 APR 2025	ISSUE SET	
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A4.0GA	WALL SECTIONS & DETAILS	15 APR 2025	15 APR 2025	ISSUE SET	
4 - MEP (BY J-SQUARED ENGINEERING)					
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MEP2	SITE UTILITIES PLAN	15 APR 2025	15 APR 2025	ISSUE SET	
E101	ELECTRICAL PLAN	15 APR 2025	15 APR 2025	ISSUE SET	

ARCHITECT'S JOB NO. 4938

PROJECT LOCATION MAP



SIGNATURE AREAS

NOTE: PROJECT CONSTRUCTION MUST BE IN COMPLIANCE WITH ALL APPLICABLE CODES, ORDINANCES, LAWS, AND REGULATIONS AS ENUMERATED ELSEWHERE IN THE PLANS AND SPECIFICATIONS.

ARCHITECT: WALLACE ARCHITECTS, L.L.C.
302 CAMPUSVIEW DRIVE SUITE 208, COLUMBIA, MO 65201

BY: _____ DATE: _____

OWNER: SPRINGBROOK PARK APARTMENTS, LLC
3622 ENDEAVOR AVE., STE. 101, COLUMBIA, MO 65201

BY: _____ DATE: _____

CONTRACTOR: INTRINSIC DEVELOPMENT, LLC
3622 ENDEAVOR AVE., STE. 101, COLUMBIA, MO 65201

BY: _____ DATE: _____

PM: RS DT: TY
PC: CD QC: MK

PLAN SET NO. _____

ISSUE SET



ALURA APARTMENTS - VILLAGE AT DISCOVERY PARK
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

Wallace
ARCHITECTS L.L.C.
Columbia, MO
P 573-258-7200

WALLACE ARCHITECTS, LLC
MISSOURI STATE CERTIFICATE
OF AUTHORITY: 2003019614

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15 APR 2025

ISSUE/REVISIONS
15 APR 2025 ISSUE SET

0.0GA

JOB NO.
4938

DIVISION 03 - CONCRETE

SECTION 03 35 11 - CONCRETE FLOOR FINISHES

COATINGS

Curing and Sealing Compound, Moisture Emission-Reducing, Membrane-Forming; Liquid, membrane-forming, clear sealer, for application to newly-placed concrete; capable of providing adequate bond for flooring adhesives, initially and over the long term; with sufficient moisture vapor impermeability to prevent deterioration of flooring adhesives due to moisture emission. Use this product to cure and seal all slabs to receive adhesively applied flooring. Comply with ASTM C309 and ASTM C1315 Type I Class A. VOC Content: Less than 100 g/L. Manufacturers: MasterKure CC 160 WB (formerly Kure-N-Seal) as manufactured by BASF Corp. Curing and Sealing Compound, Low Gloss: Liquid, membrane-forming, clear, non-yellowing acrylic, complying with ASTM C1315 Type I Class A. Application: Use at exposed slabs and toppings not scheduled to receive finish flooring. Vehicle: Water-based. VOC Content: OTC compliant. Manufacturers: Dayton Superior Corporation; Cure & Seal 1315 EF: www.daytonsuperior.com. Euclid Chemical Company; DIAMOND CLEAR VOX: www.euclidchemical.com.

DIVISION 04 - MASONRY

SECTION 04 26 13 - MASONRY VENEER

BRICK UNITS

Manufacturers: Belden Brick: www.beldenbrick.com. Endicott Clay Products Co: www.endicott.com. Meridian Brick LLC (formerly Boral USA): www.meridianbrick.com. Sioux City Brick and Tile Co: www.siouxcitybrick.com. Facing Brick: ASTM C216, Type FBS Smooth, Grade SW. Color and Texture: As selected by Owner.

MORTAR MATERIALS

Portland Cement: ASTM C150/C150M, Type I; color as required to produce approved color sample. Hydrated Lime: ASTM C207, Type S. Mortar Aggregate: ASTM C144. Pigments for Colored Mortar: Pure, concentrated mineral pigments specifically intended for mixing into mortar and complying with ASTM C979/C979M. Water: Clean and potable. Packaged Dry Material for Mortar for Unit Masonry: Premixed Portland cement, hydrated lime and sand; complying with ASTM C1714/C1714M and capable of producing mortar of the specified strength in accordance with ASTM C270 with the addition of water only. Type: Type N.

REINFORCEMENT AND ANCHORAGE

Reinforcing Steel: ASTM A615/A615M, Grade 40 (40,000 psi) yield strength, deformed billet bars; galvanized. Residential Wall Ties: Corrugated formed sheet metal, 7/8 inch wide by 0.05 inch thick, hot dip galvanized to ASTM A 153/A 153M, Class B, sized to extend at least 1-1/2 inches into the veneer with at least 5/8 inch of mortar coverage from masonry face.

THRU-WALL FLASHINGS

Metal Flashing Materials: Stainless Steel Flashing: ASTM A666, Type 304, soft temper; 26 gauge, 0.0187 inch thick; finish 2B to 2D. Flashing Sealant/Adhesives: VOC-compliant sealants and adhesives as supplied or recommended by flashing manufacturer.

ACCESSORIES

Preformed Control Joints: Neoprene material. Provide with corner and tee accessories, fused joint fillers. Joint Filler: Closed cell polyethylene; oversized 50 percent to joint width; self expanding; in maximum lengths available. Weeps: Type: Polyester mesh. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials. Penetrating Water Repellent: Penetrating, water-based silicone water repellent for concrete and masonry.

LINTELS

Prefabricated Steel Lintels, Galvanized: Install loose steel lintels over masonry openings where indicated on plans, or as required.

MORTAR MIXING

Mortar for Unit Masonry: ASTM C270, Proportion Specification.

Colored Mortar: Proportion selected pigments and other ingredients to match Architect's sample, without exceeding manufacturer's recommended pigment-to-cement ratio.

COURSING

Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness. Brick Units: Bond: Running.

DIVISION 05 - METALS

SECTION 05 50 00 - METAL FABRICATIONS

MATERIALS - STEEL

Steel Sections: ASTM A36/A36M. Plates: ASTM A283/A283M. Pipe: ASTM A53/A53M, Grade B Schedule 40, black finish. Bolts, Nuts, and Washers: ASTM A307, Grade A, plain. Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, plain. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, Type I - Inorganic, complying with VOC limitations of authorities having jurisdiction.

FABRICATION

Fit and shop assemble items in largest practical sections, for delivery to site. Fabricate items with joints tightly fitted and secured.

FABRICATED ITEMS

Ledge Angles and Lintels Not Attached to Structural Framing: For support of masonry, galvanized finish.

FINISHES - STEEL

Prime paint steel items.

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

SECTION 06 20 00 - FINISH CARPENTRY

DELIVERY, STORAGE, AND HANDLING

Protect from moisture damage. Store flat, on level area, to prevent warping.

FINISH CARPENTRY ITEMS

Surface Burning Characteristics: Provide materials having fire and smoke properties as required by applicable code.

Exterior Finish Carpentry Items: Manufacturers: Acceptable manufacturers of cellular PVC moldings and trim: Azek Building Products: www.azek.com. Door and Window Casings and Moldings at Masonry Veneer: Molded Cellular PVC; suitable for paint finish, in profiles scheduled below: Door and Window trim: To match Azek Brick mould, 1-1/2 inch x 2 inch. Interior Finish Carpentry Items (Pool Building): Manufacturers: Acceptable millwork manufacturers of casings, molding and trim. Woodgrain Millwork: www.woodgrain.com. Trimco Millwork: www.trimcomillwork.com. Metrie Inc.: www.metrie.com. Moldings, Bases, Casings, and Miscellaneous Trim: Clear white pine, solid or finger jointed; primed for paint finish, in profiles as scheduled below: Door Trim: 1 1/16 inch x 2-1/4 inch Colonial Wood Casing. Baseboard Trim: 9/16 inch by 3-1/4 inch Colonial Wood Base. Window Sill: Furniture grade, 1 inch x 4 inch nominal, back primed with eased edges.

LUMBER MATERIALS

Softwood Lumber: Clear White Pine species, plain sawn, maximum moisture content of 6 percent; with vertical grain, of quality suitable for transparent finish.

CELLULAR PVC MOLDINGS AND TRIM

Cellular PVC Trim: Extruded, expanded PVC; UV-resistant, heat-stabilized, and rigid material. Density: 31 pounds per cubic foot, minimum. Flame Spread: ASTM E84, 75, maximum.

PLASTIC LAMINATE MATERIALS

ACCESSORIES

Primer: As specified in Section 09 91 23. Wood Filler: Solvent base, tinted to match surface finish color. Epoxy Filler: As recommended by composite resin manufacturer, to match color of window sills.

HARDWARE

Countertop Support Brackets: Fixed, L-shaped, corner reinforced, face-of-wall mounting. Material: Steel. Finish: Manufacturer's standard, factory-applied, textured powder coat. Color: Black. Support Length: 24 inches.

FABRICATION

Cap exposed plastic laminate finish edges with material of same finish and pattern. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

SECTION 06 66 00 - ORNAMENTAL SIMULATED WOODWORK

DELIVERY, STORAGE, AND HANDLING

Deliver materials to site in manufacturer's original, unopened packaging, with labels clearly identifying product name and manufacturer. Store products on flat level surface to prevent warping.

FIELD CONDITIONS

Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Allow at least 24 hours for materials to adapt to conditions at project site prior to installation.

MANUFACTURERS

Gable Louvers: MidAmerica Components: www.midamericacomponents.com. Pypion LLC: www.pypion.com. Builders Edge/Tapco International Corp: www.buildersedge.com. Factory-Fabricated Cellular PVC Column Covers: Elite Trimworks Inc.; Tapered square series: www.elitetrimworks.com. Versatex Building Products LLC; Tapered Series: www.versatex.com. HB&G Building Products Inc.; PermaWrap Series: www.hbgcolumns.com.

SIMULATED WOOD PRODUCTS

Gable Louvers: Molded polyurethane foam with factory-applied UV resistant primer suitable for field applied paint finish. Style: As indicated on the Drawings. Factory-Fabricated Cellular PVC Column Covers: Premanufactured multi-piece, molded cellular PVC column cover, base and capital; UV stabilized, suitable for paint finish. Style: Square, tapered. Size: As indicated or required to accommodate structural wood post. Column Overall Height: As indicated on drawings. Column Wall Thickness: 1/2 inch. Shaft, Cap, and Base Construction: Two corner halves for field assembly.

MATERIALS

Cellular PVC, Extruded, expanded PVC; UV-resistant, heat-stabilized, and rigid material. Density: 31 pounds per cubic foot, minimum. Deflection/Warping: ASTM D648, Not less than 130 deg F. Polypropylene, Molded high-density, UV stabilized. Density: 4 pounds per cubic foot, minimum. Surface Burning Characteristics: Flame spread index of 75 maximum, smoke developed index of 450 or less, when tested in accordance with ASTM E84. Compressive Strength: Minimum 300 pounds per sq. inch.

ACCESSORIES

Fasteners: Manufacturer's standard concealed fasteners, galvanized steel. Adhesive: PVC plastic adhesive acceptable to manufacturer. Sealant (Urethane foam products): Urethane-based adhesive acceptable to manufacturer.

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 07 21 00 - THERMAL INSULATION

FIELD CONDITIONS

Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

FOAM BOARD INSULATION MATERIALS

Extruded Polystyrene (XPS) Board Insulation: Comply with ASTM C578 with either natural skin or cut cell surfaces. Type: ASTM C578, Type IV. Type and Thermal Resistance, R-value: Type IV, 5.0 (0.88), minimum, per 1 inch thickness at 75 degrees F mean temperature. Products: DuPont de Nemours, Inc; Styrofoam Brand Highload 40: building.dupont.com. Kingspan Insulation LLC; GreenGuard XPS Type IV, 25 psi: www.kingspan.com. Owens Corning Corporation; FOAMULAR Extruded Polystyrene (XPS) Insulation: www.ocbuildingsspec.com.

GLASS FIBER BLANKET INSULATION MATERIALS

Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit. Thermal Resistance at exterior walls: R-value of 20 minimum. Facing: Kraft paper. Products: CertainTeed Corporation: www.certainteed.com. Johns Manville: www.jm.com. Owens Corning Corporation: www.ocbuildingspec.com.

FOAM INSULATION

Single component polyurethane, low pressure foam sealant complying with ASTM E2178 for exterior wall penetrations. R-value: 1 inch of material at 72 degrees F: 4.7, minimum. Minimum Density: 1.0 pounds per cubic foot. Manufacturers: Dow Chemical Co.; Great Stuff: www.greatstuff.dow.com. FOMO Products Inc.; Handi Foam: www.fomo.com/handifoam. Touch 'n Seal Inc.; All Seasons: www.touch-n-seal.com. Single component polyurethane, low pressure, low pressure build, foam sealant complying with ASTM E2178 for windows and doors. R-value: 1 inch of material at 72 degrees F: 4.7, minimum. Minimum Density: 1.10 pounds per cubic foot. Manufacturers: Dow Chemical Co.; Great Stuff Window & Door: www.greatstuff.dow.com. FOMO Products Inc.; Handi Foam Window & Door: www.fomo.com/handifoam. Touch 'n Seal Inc.; No Warp: www.touch-n-seal.com.

ACCESSORIES

Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive. Insulation Fasteners: Lengths of unfinished, 13 gauge, 0.072 inch high carbon spring steel with chisel or mitered tips, held in place by tension, length to suit insulation thickness and substrate, capable of securely supporting insulation in place. Adhesive: Type recommended by insulation manufacturer for application.

SECTION 07 21 26 - BLOWN INSULATION MATERIALS

Refer to Specification/Selection Design sheets. Applications: Provide blown insulation in attic as indicated on drawings.

Loose Fill Insulation: ASTM C739, cellulose fiber type, bulk for pneumatic placement. Thermal Transmittance (U-value): 0.27 BTU/hr sq ft deg F, maximum. Total Thermal Resistance at Attic: Garage and Maintenance Buildings: R-value of 38 (deg F hr sq ft)/Btu, minimum.

ACCESSORIES

Roof Ventilation Baffles: Prefabricated ventilation channels for placement under roof sheathing with baffles to prevent wind-washing.

SECTION 07 25 00 - WEATHER BARRIERS

WATER-RESISTIVE AIR BARRIERS

Description: Materials installed behind exterior wall coverings; designed to prevent liquid water from further penetration into exterior wall assembly. Primary materials include mechanically applied sheets; accessory materials include flashings and seam tapes. Water-Resistive and Air Barrier, Multi-layers: Outer layers of nonwoven, spunbonded polypropylene with vapor permeable, watertight polymeric middle layer. Air Permeance: 0.004 cfm/sq ft, maximum, when tested in accordance with ASTM E2178. Water Vapor Permeance: 54 perms, minimum, when tested in accordance with ASTM E96/E96M using Procedure A - Desiccant Method, at 73.4 degrees F. Products: DuPont Building Innovations; Tyvek Home Wrap with FlexWrap NF, StraightFlash, StraightFlash VF, Tyvek Wrap Caps, and Tyvek Tape: www.dupont.com. Kingspan Insulation LLC; GreenGuard HPW Building Wrap with GreenGuard Butyl Flashing and GreenGuard SuperStretch Flashing: www.trustgreenguard.com. National Shelter Products, Inc; DRYLine HP with Dryline Sheathing Tape, ATX Flashing, and ATX Flex Flashing: www.drylinewrap.com.

ACCESSORIES

Seal and Perimeter Tapes: As recommended by water-resistive barrier manufacturer. Flashings: As recommended by water-resistive barrier manufacturer for application. Flexible Flashing: Self-adhesive sheet flashing complying with ASTM D1970/D1970M, except slip resistance requirement is waived if not installed on a roof.

SECTION 07 31 13 - ASPHALT SHINGLES

MANUFACTURERS

Asphalt Shingles: CertainTeed Landmark Series: www.certainteed.com. GAF; Timberline American Harvest: www.gaf.com/sle. Owens Corning Corp; Oakridge: www.owenscorning.com.

ASPHALT SHINGLES

Asphalt Shingles: Asphalt-coated glass felt, mineral granule surfaced, complying with ASTM D3462/D3462M. Fire Resistance: Class A, complying with ASTM E108. Wind Resistance (Uplift): Class D, when tested in accordance with ASTM D7158/D7158M. Self-sealing type. Style: Laminated overlay.

SHEET MATERIALS

Smooth Surfaced Roll Roofing: Asphalt-coated organic felt, with smooth asphalt coating both sides, complying with ASTM D6380/D6380M, Class S, Type III, 51.1 lb/100 sq ft. Eave and Valley Protection Membrane: Self-adhering polymer-modified asphalt sheet complying with ASTM D1970/D1970M; 40 mil total thickness; with strippable treated release paper and polyethylene sheet top surface. Underlayment: Synthetic non-asphaltic sheet, intended by manufacturer for mechanically fastened roofing underlayment without sealed seams and meeting requirements of ASTM D226/D226M.

Type: Woven polypropylene with anti-slip polyolefin coating on both sides. Self Sealability: Passing nail sealability test specified in ASTM D1970/D1970M. Ultraviolet (UV) Resistance and Weatherability: Approved in writing by manufacturer for exposure to weather for minimum of two months. Low Temperature Flexibility: Passing test specified in ASTM D1970/D1970M. Water Vapor Permeance: Vapor retarder; maximum of 1 perm, when tested in accordance with ASTM E96/E96M Procedure A, desiccant method. Products: CertainTeed Roofing; DiamondDeck Underlayment: www.certainteed.com/#sle. Beacon Roofing Supply Inc; Tri-Built Synthetic Underlayment: www.becon.com. Underlayment: Asphalt-saturated organic roofing felt, unperforated, complying with ASTM D226/D226M, Type I, No. 15.

ACCESSORIES

Roofing Nails: Standard round wire shingle type, galvanized steel, minimum 3/8 inch head diameter, 12 gauge, 0.109 inch nail shank diameter, 1-1/2 inch long and complying with ASTM F1667. Cut Nails: Standard round wire shingle type, barbed shank, of electro-galvanized steel, 11 - 12 wire gauge, 0.125 - 0.109 inch shank diameter, 3/8 inch head diameter, of sufficient length to penetrate through roof sheathing or 3/4 inch into roof sheathing or decking. Roof Vents: Aluminum construction with nailing flange and insect screen; equal to Model RVA 50 manufactured by Air Vent Inc. Free Vent Area (net): 50 square inches. Size of Roof Opening: 8 inch round.

METAL FLASHINGS

General: Provide prefinished aluminum sheet metal flashing at eave edge, gable edge, fascia, and gable face, color as selected by Owner/Architect. Drip Flashings: Pre-formed drip-edge strips, 28 gauge, 0.0149 inch, furnished in 10 foot lengths minimum. Profile: Equal to Amerimax profile # FHA. Manufacturers: Amerimax: www.amerimax.com. Or approved equal. Fascia and Gable Flashing: Pre-formed or site-fabricated sheet metal fascia and gable board cladding, 24 gauge, 0.0201 inch minimum thickness. Hem exposed edges of flashings minimum 1/4 inch on underside.

SECTION 07 46 46 - FIBER-CEMENT SIDING

FIBER-CEMENT SIDING

Lap Siding: Individual horizontal boards made of cement and cellulose fiber formed under high pressure with integral surface texture, in compliance with ASTM C1186, Type A, Grade II; with machined edges, for nail attachment. Style: Standard lap style. Texture: Simulated cedar grain. Length: 12 feet, nominal. Width (Height): 9-1/2 inches. Thickness: 7/16 inch, nominal. Finish: Factory applied primer. Warranty: 50 year limited; transferable. Products: Allura, a division of Plycom USA, Inc.: www.allurausa.com/#sle. James Hardie Building Products, Inc: www.jameshardie.com/#sle. Nichiha USA, Inc.: www.nichiha.com/#sle.

ACCESSORIES

Trim: Same material and texture as siding. Flashing: Aluminum; 26 gage, 0.0179 inch minimum base metal thickness.

Sealant: Elastomeric, polyurethane or silyl-terminated polyether/polyurethane, and capable of being painted.

SECTION 07 54 00 - THERMOPLASTIC MEMBRANE ROOFING

DELIVERY, STORAGE, AND HANDLING

Store materials in weather protected environment, clear of ground and moisture. Ensure storage and staging of materials does not exceed static and dynamic load-bearing capacities of roof decking.

FIELD CONDITIONS

Do not apply roofing membrane when ambient temperature is below 40 degrees F or above 90 degrees F. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

MANUFACTURERS

Thermoplastic Polyolefin (TPO) Membrane Roofing Materials: Carlisle Roofing Systems, Inc; Sure-Weld TPO: www.carlisle-syntec.com. Firestone Building Products, LLC; UltraPly Platinum: www.firestonebpc.com. GAF; EverGuard Extreme TPO 60 mil: www.gaf.com. Johns Manville; JM TPO - 60 mil: www.jm.com. Insulation: BASF Corporation; BASF Neopor GPS: www.neopor.basf.us. Carlisle SynTec; SecurShield Insulation: www.carlisle-syntec.com. GAF; EnergyGuard Polyiso: www.gaf.com. Versico Roofing Systems; SecurShield Insulation: www.versico.com/#sle.

ROOFING - UNBALLASTED APPLICATIONS

Thermoplastic Membrane Roofing: One ply membrane, fully adhered, over vapor retarder and insulation. Roofing Assembly Requirements: Solar Reflectance Index (SRI): Minimum of 64 based on three-year aged value; if three-year aged data is not available, minimum of 82 initial value. Calculate SRI in accordance with ASTM E1980. Field applied coating may not be used to achieve specified SRI. Roof-Ceiling Fire Resistance Rating: Comply with UL (FRD) Assembly Design No. P566. Insulation Thermal Resistance (R-Value): 5 per inch, minimum; provide insulation of thickness required. Acceptable Insulation Types - Constant Thickness Application: Minimum 2 layers of polyisocyanurate board. Primer, Roof Coating: Water-based primer with high-tack finish that promotes adhesion for elastomeric roof coatings.

MEMBRANE ROOFING AND ASSOCIATED MATERIALS

Membrane Roofing Materials: TPO: Thermoplastic polyolefin (TPO) complying with ASTM D6878/D6878M, sheet contains reinforcing fabrics or scrim. Thickness: 60 mil, 0.060 inch, minimum. Color: White. Seaming Materials: As recommended by membrane manufacturer. Vapor Retarder: Material approved by roof manufacturer complying with requirements of fire rating classification; compatible with roofing and insulation materials. Flexible Flashing Material: Same material as membrane.

COVER BOARDS

Cover Boards: Glass-mat faced gypsum panels complying with ASTM C1177/C1177M. Thickness: 1/2 inch, fire-resistant. Products: Georgia-Pacific; DensDeck: www.densdeck.com.

INSULATION

Total Thermal Resistance: Provide a total R-value of 30 above all conditioned spaces. Polyisocyanurate (ISO) Board Insulation: Rigid cellular foam, complying with ASTM C1289. Classifications: Type I: Faced with either cellulose facers or glass fiber mat facers on both major surfaces of the core foam. Class 1 - Faced with glass fiber reinforced cellulose felt facers on both major surfaces of core foam. Board Thickness: 4.0 inches.

ACCESSORIES

Stack Boots: Prefabricated flexible boot and collar for pipe stacks through membrane; same material as membrane. Cant and Edge Strips: Wood fiberboard, compatible with roofing materials; cants formed to 45 degree angle. Insulation Joint Tape: Glass fiber reinforced type as recommended by insulation manufacturer, compatible with roofing materials; 6 inches wide; self adhering. Membrane Adhesive: As recommended by membrane manufacturer. Surface Conditioner for Adhesives: Compatible with membrane and adhesives. Thinners and Cleaners: As recommended by adhesive manufacturer, compatible with membrane. Insulation Adhesive: As recommended by insulation manufacturer.

SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM

DELIVERY, STORAGE, AND HANDLING

Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage. Prevent contact with materials that could cause discoloration or staining.

SHEET MATERIALS

Pre-Finished Aluminum: ASTM B209 (ASTM B209M); 20 gauge, (0.032 inch) thick; plain finish shop pre-coated with modified silicone coating.

FABRICATION

General: Provide prefinished aluminum sheet metal flashing at changes in adjacent siding materials and other flashing indicated, color as selected by Owner/Architect. Form sections true to shape, accurate in size, square, and free from distortion or defects. Form pieces in longest possible lengths. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.

COLLECTOR BOXES AND DOWNSPOUT FABRICATION

Collector Boxes: SMACNA (ASMM), Rectangular profile with visible overflow. Downspouts: Rectangular profile. Collector box and Downspouts: Size for rainfall intensity determined by a storm occurrence of 1 in 10 years in accordance with SMACNA (ASMM).

EXTERIOR PENETRATION FLASHING PANELS

Flashing Panels for Exterior Wall Penetrations: Premanufactured components and accessories as required to preserve integrity of building envelope; suitable for conduits and facade materials to be installed.

ACCESSORIES

Fasteners: Galvanized steel, with soft neoprene washers. Concealed Sealants: Non-curing butyl sealant. Exposed Sealants: ASTM C920, elastomeric sealant, with minimum movement capability as recommended by manufacturer for substrates to be sealed; color to match adjacent material.

SECTION 07 71 23 - MANUFACTURED GUTTERS AND DOWNSPOUTS

DELIVERY, STORAGE, AND HANDLING

Stack material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope to drain. Prevent contact with materials that could cause discoloration, staining, or damage.

MATERIALS

Pre-Finished Aluminum Sheet: ASTM B209 (ASTM B209M); 0.027 inch thick. Finish: Plain, shop pre-coated with acrylic coating.

COMPONENTS

Gutters: 6 inch K-style profile. Downspouts: 3 inch by 4 inch Rectangular profile, minimum. Anchors and Supports: Profiled to suit gutters and downspouts. Gutter Supports: Straps. Downspout Supports: Straps. Fasteners: Same material and finish as gutters and downspouts, with soft neoprene washers.

FABRICATION

Form gutters and downspouts of profiles and size indicated. Form sections square, true, and accurate in size, in maximum possible lengths, free of distortion or defects detrimental to appearance or performance. Allow for expansion at joints. Hem exposed edges of metal. Fabricate gutter and downspout accessories; seal watertight.

FINISHES

Acrylic polyester coating: Baked enamel system complying with AAMA 2603.

ACCESSORIES

Offset Downspout Adapters: PVC adapter for connecting 3 inch x 4 inch downspouts to 4 inch solid white or green drain tile.

SECTION 07 92 00 - JOINT SEALANTS

MANUFACTURERS

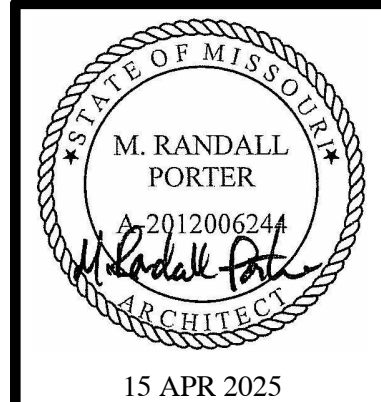
Non-Sag Sealants: Permits application in joints on vertical surfaces without sagging or slumping. BASF Construction Chemicals-Building Systems: www.buildingsystems.basf.com. Dow Chemical Company: www.dow.com. GE Silicones Inc.: www.ge.com. Pecora Corporation: www.pecora.com. Sikka Corporation: www.usa-sikka.com. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.

JOINT SEALANT APPLICATIONS

Scope: Exterior Joints: Do not seal exterior joints unless indicated on drawings as sealed. Seal the following joints: Wall expansion and control joints. Joints between doors, windows, and other frames or adjacent construction. Joints between different exposed materials. Flashing and adjacent building materials. Vertical siding/masonry joints. Sleeves or pipes penetrating exterior walls. Sleeves or pipes penetrating masonry or concrete walls. Openings below ledge angles in masonry. Lap joints in and penetrations through weather barriers. Exterior Siding: Fiber-Cement Siding. Interior Joints: Do not seal interior joints indicated on drawings as not sealed. Do not seal gaps and openings in gypsum board and suspended ceilings. Seal the following joints: Joints between door frames and window frames and adjacent construction. Gypsum board to wood or masonry. Metal to gypsum board, wood, or masonry. Perimeter of counter tops and vanity tops. Perimeter of plumbing fixtures, shower surrounds, drains, or piping. Do not seal the following types of joints: Joints where sealant is specified to be furnished and installed by manufacturer of product to be sealed. Joints where sealant installation is specified in other sections. Additional Locations: In addition to locations listed or shown on the Drawings to receive continuous sealant materials, a continuous bead of sealant, appropriate to construction materials and locations, shall be provided/installed at: Horizontal joint between bottom of wood sill plate and top of foundation wall or slab on grade. Horizontal joint(s) between double/triple top plates. Vertical joint(s) between double/triple studs in general framing and at door/window rough openings. Stud cavities blocked at change in ceiling heights. Penetrations through top and bottom plates. Seam(s) in band joints. Gaps in exterior wall sheathing. Penetrations in exterior wall sheathing. Penetrations in gypsum board of insulated exterior walls. Exterior Joints: Use non-sag polyurethane sealant, unless otherwise indicated. Masonry Expansion Joints: Two-part polyurethane. Metal to Masonry: Two-part polyurethane. Lap Joints in Sheet Metal Fabrications: Two-part polyurethane, non-curing. General Flashing and Flashing to Brick: One-part polyurethane. Sleeves in Walls: One-part polyurethane. Interior Joints: Use non-sag acrylic sealant, unless otherwise indicated. Gypsum Board or Plaster to Masonry or Wood: Acrylic. Metal to Gypsum Board, Plaster or Masonry: Acrylic. Metal to Brick: Two-part polyurethane. Joints between Fixtures in Wet Areas and Floors, Walls, and Ceilings: Mildew-resistant silicone sealant; white.

JOINT SEALANTS - GENERAL

Sealants and Primers: Provide products having lower volatile organic compound (VOC) content than indicated in SCAQMD 1168. ACCESSORIES Sealant Backing Rod, Closed-Cell Type: Cylindrical flexible sealant backings complying with ASTM C1330 Type C. Size: 25 to 50 percent larger in diameter than joint width. Products: Nomaco, Inc; HBR: www.nomaco.com/#sle.



M. RANDALL PORTER
ARCHITECT LICENSE#
A-2012006244

ALURA APARTMENTS - VILLAGE AT DISCOVERY PARK
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



WALLACE ARCHITECTS, LLC
MISSOURI STATE CERTIFICATE
OF AUTHORITY: 2003019614

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15 APR 2025

ISSUE/REVISIONS
15 APR 2025 ISSUE SET

D

C

B

A

Color: To be selected by Owner from manufacturer's full range.

ACCESSORIES

Subfloor Filler: Fast-setting, portland-cement based; type recommended by adhesive material manufacturer.
Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.
Moldings, Transition and Edge Strips: Same material as flooring.
Sound Control Underlayment: Recycled rubber type.
Manufacturers:
Piteq, Inc; GenieMat RST: www.piteq.com.
Roll Thickness: 3/8 inch, nominal.

SECTION 09 91 13 - EXTERIOR PAINTING

SECTION INCLUDES

Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
Factory-primed Entry doors.
Exposed surfaces of steel lintels and ledge angles.
Galvanized roof flashings and drip edges.
Steel Bollards.
Mechanical and Electrical:
Exposed pipe and conduit.

Do Not Paint or Finish the Following Items:
Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
Items indicated to receive other finishes.
Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
Stainless steel, anodized aluminum, bronze, terne-coated stainless steel, zinc, and lead.
Floors, unless specifically indicated.
Brick, glass unit masonry, architectural concrete, cast stone, integrally colored plaster and stucco.
Glass.

DELIVERY, STORAGE, AND HANDLING

Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

FIELD CONDITIONS

Do not apply materials when surface and ambient temperatures are outside the paint product manufacturer's temperature ranges.

Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

MANUFACTURERS

Paints:
Behr Paint Company: www.behr.com.
Benjamin Moore Paints: www.benjaminmoore.com.
PPG Paints: www.ppgpaints.com.
Sherwin-Williams Company: www.sherwin-williams.com.

PAINTS AND FINISHES - GENERAL

Volatile Organic Compound (VOC) Content:
Provide paints and finishes that comply with the most stringent requirements specified in the following:

40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
Ozone Transport Commission (OTC) Model Rule, Architectural, Industrial, and Maintenance Coatings: www.otcair.org, specifically:
Opaque, Flat: 50 g/L, maximum.
Opaque, Nonflat: 150 g/L, maximum.
Opaque, High Gloss: 250 g/L, maximum.
Architectural coatings VOC limits of the State of Missouri.
Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site, or other method acceptable to authorities having jurisdiction.

Colors: To be selected from manufacturer's full range of available colors.

PAINT SYSTEMS - EXTERIOR

Paint E-OP - Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including concrete masonry units, engineered wood siding, primed wood, primed metal, and primed urethane decorative elements.
Top Coat(s): Exterior Latex.
Paint ME-OP-3A - Ferrous Metals, Unprimed, Alkyd, 3 Coat:
Paint ME-OP-2A - Ferrous Metals, Primed, Alkyd, Water Based, 2 Coat:
Paint MgE-OP-3A - Galvanized Metals, Alkyd, 3 Coat:

PRIMERS

Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
Interior/Exterior Latex Block Filler.
Rust-Inhibitive Water Based Primer, MPI #107.
Latex Primer for Exterior Wood, MPI #6.

SECTION 09 91 23 - INTERIOR PAINTING

SECTION INCLUDES

Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
Both sides and all edges of interior wood doors.
Mechanical and Electrical:
Paint interior surfaces of air ducts that are visible through grilles and louvers with one coat of flat black paint to visible surfaces.

Do Not Paint or Finish the Following Items:
Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
Items indicated to receive other finishes.
Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
Floors, unless specifically indicated.
Ceramic and other tiles.
Glass.
Concealed pipes, ducts, and conduits.

DELIVERY, STORAGE, AND HANDLING

Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

FIELD CONDITIONS

Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

MANUFACTURERS

Paints:
Behr Paint Company: www.behr.com.
Benjamin Moore Paints: www.benjaminmoore.com.
PPG Paints: www.ppgpaints.com.
Sherwin-Williams Company: www.sherwin-williams.com.

PAINTS AND FINISHES - GENERAL

Volatile Organic Compound (VOC) Content:
Provide paints and finishes that comply with the most stringent requirements specified in the following:

40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
SCAQMD 1113 Rule.
Ozone Transport Commission (OTC) Model Rule, Architectural, Industrial, and Maintenance Coatings: www.otcair.org, specifically:
Opaque, Flat: 50 g/L, maximum.
Opaque, Nonflat: 150 g/L, maximum.
Opaque, High Gloss: 250 g/L, maximum.

Architectural coatings VOC limits of the State of Missouri.
Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site, or other method acceptable to authorities having jurisdiction.

Colors: To be selected from manufacturer's full range of available colors.

PAINT SYSTEMS - INTERIOR

Paint I-OP - Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board, wood, uncoated steel, and shop primed steel.
Top Coat(s): Interior Latex.
Primer: As recommended by top coat manufacturer for specific substrate.
Paint I-OP-MD-TD - Medium Duty Door/Trim: For surfaces subject to frequent contact by occupants, including metals and wood:
Top Coat(s): Interior Alkyd, Water Based.
Primer: As recommended by top coat manufacturer for specific substrate.

PRIMERS

Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
Interior Latex Primer Sealer.
Latex Primer for Interior Wood.

DIVISION 10 - SPECIALTIES

SECTION 10 14 00 - SIGNAGE

SIGNAGE APPLICATIONS

Accessibility Compliance: Signs are required to comply with, UFAS, ADA Standards, and ICC A117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.

Room and Door Signs: Provide signs as indicated in Signage Schedule.

Sign Type: Flat signs with raised panel media as specified.

Interior Directional and Informational Signs:

Sign Type: Same as room and door signs.

Building Identification Signs:

Sign Type: Dimensional Letters and Numbers, 4 inch high minimum; wall-mounted.

Material: plastic letters & numbers

Install at building exteriors as directed by Owner

Dwelling Unit Identification Signs:

Sign Type: Flat signs with raised panel media as specified.

Material: Fiberglass or Photopolymer signs.

Mounting: Countersunk Screws.

Office Directional Sign:

Sign Type: Flat signs with printed panel media as specified.

Material: Fiberglass or Photopolymer signs.

Size: 24 inch by 36 inch.

Mounting: Pole- mounted.

Text: 'OFFICE' with directional arrow (direction of arrow per Owner)

Monument Sign: Provide sign as indicated on Drawings.

Traffic Signs: Provide Parking/Traffic signs and mounting poles of types indicated on drawings.

SIGN TYPES

Flat Signs: Signage media without frame.

Color and Font: Unless otherwise indicated:

Character Font: Helvetica, Arial, or other sans serif font.

Character Case: Upper case only.

Background Color: Selected by Owner/Architect.

Character Color: Contrasting color.

TACTILE SIGNAGE MEDIA

Engraved Panels: Laminated colored plastic; engraved through face to expose core as background color.

Injection Molded Panels: One-piece acrylic plastic, with raised letters and braille.

Applied Character Panels: Acrylic plastic base, with applied acrylic plastic letters and braille.

DIMENSIONAL LETTERS

Plastic Letters:

Material: Injection molded plastic.

SECTION 10 28 00 - TOILET AND BATH ACCESSORIES

MANUFACTURERS

Fixture and Accessory Manufacturers:
Better Homes Products, Inc.: www.betterhomesproducts.com.
Pfister, a Spectrum Brands Company: www.pfisterfaucets.com.
Delta Faucet Company, Inc.: www.deltafaucet.com.

Commercial Toilet and Shower Accessories:

ASI - American Specialties, Inc: www.americanspecialties.com.
Bradley Corporation: www.bradleycorp.com.
Bobrick Washroom Equipment Inc.: www.bobrick.com.

MATERIALS

Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.

Stainless Steel Sheet: ASTM A666, Type 304.

Galvanized Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.

Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.

Adhesive: silicone, waterproof.

Fasteners, screws, and bolts: Corrosion resistant or stainless steel.

TOILET AND BATHROOM ACCESSORIES

Toilet Paper Dispenser: Single roll, surface mounted bracket type, nickel-plated solid brass.

Product: Candlestick Park #2209 manufactured by Better Homes Products, or equal.

Paper Towel Dispenser: Manual, roll paper type.

Cover: High-impact plastic.

Capacity: 8 inch diameter roll.

Mounting: Surface mounted.

Product: Model 2497 manufactured by Bradley, or equal.

Soap Dispenser: Liquid soap dispenser, wall-mounted, surface, with stainless steel cover and horizontal stainless steel tank and working parts; push type soap valve, check valve, and window gauge refill indicator, tumbler lock.

Products:
Model # B4112 manufactured by Bobrick, or equal..

Mirrors: Stainless steel framed, 1/4 inch thick annealed float glass; ASTM C1036.

Annealed Float Glass: Silvering, protective and physical characteristics in compliance with ASTM C1503.

Size: As indicated on drawings.

Grab Bars: Stainless steel, textured surface.

Standard Duty Grab Bars:

Dimensions: 1-1/2 inch outside diameter, minimum 0.05 inch wall thickness, concealed flange mounting, 1-1/2 inch clearance between wall and inside of grab bar.

Finish: Safety-grip.

Product: Series 632 manufactured by Bradley, or equal.

SECTION 10 44 00 - FIRE PROTECTION SPECIALTIES

MANUFACTURERS

Fire Extinguishers:

Kidde, a unit of United Technologies Corp: www.kidde.com.

Nystrom, Inc: www.nystrom.com.

Pyro-Chem, a Tyco Business: www.pyrochem.com.

FIRE EXTINGUISHERS

Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.

Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.

Stored Pressure Operated: Deep Drawn.

Class: A-B-C type.

Size: 5 pound; For installation in Community Room and Machine room.

ACCESSORIES

DIVISION 11 - EQUIPMENT

SECTION 11 30 13 - RESIDENTIAL APPLIANCES

KITCHEN APPLIANCES

Energy Star Rating: Provide Equipment Eligible for Energy Star Rating where available and applicable.

Refrigerator: Free-standing, side-by-side, and frost-free.

Capacity: Total minimum storage of 17.0 cubic ft; minimum 25 percent freezer capacity.

Energy Usage: Energy Star Rated.

Features: Include glass shelves, automatic icemaker, light in freezer compartment, and ADA compliant front-mounted controls.

Exterior Finish: Porcelain enameled steel, color as selected by Owner.

Manufacturers:

To be selected by Owner.

Microwave: Countertop.

Capacity: 1.3 cubic ft.

Power: 1000 watts.

Height: 12 inches maximum.

Features: Include turntable.

Exterior Finish: Painted steel, color as selected by Owner.

Manufacturers:

To be selected by Owner.

Convection Oven, ; Countertop.

Size: 12 inch.

Features: pre-programmed cooking fuctions, broil, interior light, non-stick coated racks, and timer.

Exterior Finish: Painted steel, color black.

Manufacturers:

DIVISION 12 - FURNISHINGS

SECTION 12 21 13 - HORIZONTAL LOUVER BLINDS

MANUFACTURERS

Horizontal Louver Blinds:

CACO Inc.: www.cacoinc.com

SW/Contract, a division of Spring Window Fashions, LLC.: www.swfcontract.com.

Ball Blinds.

Grabler Blinds

BLINDS

Description: Horizontal slat louvers hung from full-width headrail with full-width bottom rail. Provide 1 inch 'Mini-Blind' horizontal louver blinds at all Maintenance Building windows.

Manual Operation: Control of raising and lowering by counterbalance spring with full range locking; blade angle adjustable by control wand.

Plastic Slats: Extruded PVC, square slat corners.

Width: 1 inch.

Thickness: 0.017 inch.

Texture: Smooth.

Slat Support: Woven polypropylene cord, ladder configuration.

Head Rail: Pre-finished, formed steel box, with end caps; internally fitted with hardware, pulleys, and bearings for operation; same depth as width of slats.

Bottom Rail: Pre-finished, formed steel ; with end caps.

Color: Same as headrail.

Lift Cord: Braided nylon, continuous loop with restraining device; comply with WCMA A100.1.

Control Wand: Extruded solid plastic; hexagonal shape.

SECTION 12 35 30 - RESIDENTIAL CABINETS AND COUNTERTOPS

CABINETS

Manufacturers:

All Wood Cabinetry Inc.; "All Wood": www.allwoodfast.com

American Traditions/S&W Cabinets, Inc; Shaker Poplar: www.swcabinets.com

Wellborn Cabinet, Inc; Home Concepts - All Plywood: www.wellborn.com#sle.

Wolf Home Products; Wolf Classic Cabinets: www.wolfhomeproducts.com#sle.

Cabinet Box: Framed construction.

Cabinet Door/Drawer Configuration: Partial overlay.

Cabinet Doors:

3/4 inch kiln-dried hardwood frame; mortise and tenon construction, 1/4 inch plywood center panel with hardwood veneer finish.

Drawers:

1/2 inch Birch plywood full box with butted joints, 1/4 inch Birch plywood bottom.

Shelves: 5/8 inch plywood.

Exposed shelf edges: Finish with manufacturer's standard edge banding, color coordinated with other exposed finishes.

Cabinet Hardware: As selected from manufacturer's standard types, styles and finishes.

Drawer and Cabinet Pulls: Satin nickel, wire pulls 4 inches wide

Exterior Finish: Factory-applied urethane; 2 color coats with top coat min.

Color: To be selected by Owner from manufacturer's standard line.

COUNTERTOPS

Kitchen Countertops: Post formed plastic laminate over particle board with, rolled edge, and coved to back splash.
Colors/Patterns: To be selected by Owner from manufacturer's standard line.

Vanity Countertops: Post formed plastic laminate over particle board, coved to back splash.
Colors/Patterns: To be selected by Owner from manufacturer's standard line.

WINDOW SILLS

Self edged plastic laminate over particle board with, square front nosing and self-edged sides.

FABRICATION

Shop assemble casework for delivery to site in units easily handled and to permit passage through building openings.

Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.

Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

SECTION 28 10 00 - ACCESS CONTROL

ADMINISTRATIVE REQUIREMENTS

Coordination:

Coordinate the work with other installers to provide suitable door hardware as required for both access control functionality and code compliance.

Coordinate the work with other installers to provide power for equipment at required locations.

Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

DELIVERY, STORAGE, AND HANDLING

Receive, inspect, handle, and store products in accordance with manufacturer's instructions.

Store products in manufacturer's unopened packaging, keep dry and protect from damage until ready for installation.

MANUFACTURERS

Access Control Units - Basis of Design: DKS Door King; Series 1830.

Access Control Units:

Bosch Security Systems: www.boschsecurity.us#sle.

DoorKing, Inc: www.doorking.com/#sle.

Honeywell International, Inc: www.honeywellaccess.com/#sle.

ACCESS CONTROL SYSTEM REQUIREMENTS

Provide new access control system consisting of required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, etc. as necessary for a complete operating system that provides the functional intent indicated.

Surge Protection:

Provide surge protection for readers and door strikes/locks.

Access Control Points:

Exterior Doors:

Function: Operational and emergency.

Access: Controlled entry, free exit.

Peripherals on Secure Side:

Reader/Keypad: Contactless key fob reader.

Locking Device: Electric strike.

Configuration: Fail-secure.

Computers Required:

Workstation Computer(s):

Quantity: One.

Location(s): Leasing Office.

Peripherals required for each workstation computer:

Mouse and keyboard.

Monitor(s): One.

Alarm/report printer.

Interface with Other Systems:

Provide products compatible with other systems requiring interface with access control system.

Interface with electrically operated door hardware as specified in Section 08 71 00.

Provide products listed, classified, and labeled as suitable for the purpose intended.

Access Control Units and Readers: Listed and labeled as complying with UL 294.

ACCESS CONTROL UNITS AND SOFTWARE

Provide access control units and software compatible with readers to be connected.

Unless otherwise indicated, provide software and licenses required for fully operational system.

Access Control Unit:

Control Capability: 15 doors/ 15 readers.

Database:

Quantity of Access Codes Supported: 8000.

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Alura Village Garage Building Type "A"

Lee's Summit, Jackson County, Missouri

GENERAL NOTES

ELEVATION DATUM
SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS
2018 INTERNATIONAL BUILDING CODE

EARTHWORK
EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT PREPARED BY OLSSON, INC. DATED AUGUST 22, 2019.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:

FOUNDATIONS	3,000 PSI
CAST-IN-PLACE WALLS	3,500 PSI
FLOOR SLAB	4,000 PSI
EXTERIOR SLABS, WALLS AND CURBS	4,000 PSI
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- CHLORIDE-BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION.
- CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
- CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
- SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- CONCRETE WORK EXECUTION
 - CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
 - POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

CAST AGAINST AND EXPOSED TO EARTH.....	3 INCHES
EXPOSED TO EARTH OR WEATHER.....	2 INCHES
NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.....	1 1/2 INCHES
 - PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
 - STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
 - CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

TIMBER

TIMBER WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ANSI/AWC NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION WITH 2018 NDS SUPPLEMENT FOR WOOD CONSTRUCTION, WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:

- FOR COMMON MEMBER SIZES, THE SPECIES AND GRADES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

A.	2X4	SPF No.1/No.2
B.	2X6	SPF No.1/No.2
C.	2X8	DF-L No.2
D.	2X10	DF-L S.S.
E.	2X12	DF-L S.S.

EQUIVALENT (OR BETTER) GRADES & SPECIES MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL.

- SIZES SHOWN FOR LUMBER ARE NOMINAL SIZES.
- TIMBER EXPOSED TO WEATHER OR GROUND, OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-IMPREGNATED BY AN APPROVED PROCESS AND PRESERVATIVE.
- SPLICING OF JOISTS, STUDS, OR HEADERS IS PROHIBITED EXCEPT AS SHOWN.
- BOLTS SHALL CONFORM TO ASTM A307. HOLES SHALL BE DRILLED PER SECTION 12.1.3 OF THE 2018 ANSI/AWC NDS FOR WOOD CONSTRUCTION NDS SUPPLEMENT.
- LAG SCREWS AND WOOD SCREWS SHALL BE INSTALLED PER SECTIONS 12.1.4 & 12.1.5 RESPECTIVELY, OF THE 2018 ANSI/AWC NDS FOR WOOD CONSTRUCTION WITH 2018 NDS SUPPLEMENT.
- COMMON NAILS SHALL BE USED, UNLESS NOTED OTHERWISE. IN ADDITION, NAILS SHALL BE GALVANIZED, IF EXPOSED TO WEATHER OR MOISTURE. TOE-NAILS SHALL BE DRIVEN PER SECTION 12.1.6.3 OF THE 2018 ANSI/AWC NDS FOR WOOD CONSTRUCTION WITH 2018 NDS SUPPLEMENT.
- FASTENING SHALL BE PER THE IBC MINIMUM FASTENING SCHEDULE, TABLE 2304.10.1, UNLESS NOTED OTHERWISE.
- CONNECTIONS/CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

POST-INSTALLED ANCHORS

- ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318, APPENDIX 17, AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
- EXPANSION ANCHORS HAVE BEEN DESIGNED AS HILTI KWIK BOLT TZ ANCHORS, UNLESS NOTED OTHERWISE.
- ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200 ADHESIVE IN CONCRETE OR SOLID MASONRY, UNLESS NOTED OTHERWISE.
- EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE ICC ES EVALUATION REPORTS FROM THE INTERNATIONAL CODE COUNCIL (ICC).
- EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.
- ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADING. WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED.
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLANE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR MANUFACTURER'S SPECIFICATIONS.
- STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

PREFABRICATED WOOD TRUSSES

- FLOOR & ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES, AND THE ANSI/AWC NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.
- PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER AND TRUSS STABILITY.
- FLOOR & ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/360 AND TO SAFELY SUPPORT THE FOLLOWING LOADS:
 - DEAD, LIVE, SNOW, WIND, EARTHQUAKE: SEE PROJECT DESIGN DATA ON COVER SHEET.
 - MECHANICAL PIPE LOAD: TRUSSES SHALL BE DESIGNED FOR A CONCENTRATED LOAD OF 250 LBS HUNG ANYWHERE ALONG THE BOTTOM CHORD.
 - OVER-FRAMING LOAD: TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD FRAMING, SUCH AS THAT WHICH FORMS VALLEYS AND HIPS ON ROOFS.
 - DRIFTED SNOW LOAD: TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE.
 - IN-PLANE LATERAL LOADS: TRUSSES SHALL BE DESIGNED TO SUPPORT ANY LATERAL LOADS CARRIED AXIALLY IN THE PLANE OF THE TRUSS, AS SHOWN ON THE PLANS.
- CABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" O.C. MAXIMUM.
- SUBMITTALS SHALL INCLUDE THE FOLLOWING:
 - SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF, AND SIGNED AND SEALED BY, A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT. THESE DRAWINGS SHALL INDICATE SPECIES, GRADE, AND SIZES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING DETAILS. SHOW TRUSS LAYOUT AND ALL REQUIRED TEMPORARY AND PERMANENT BRACING AFFECTING THE STRUCTURAL CAPACITY OF THE TRUSSES.

PROVIDE COMPLETE ENGINEERING DESIGN CALCULATIONS THAT INCLUDE DESIGN VALUES, DESIGN ANALYSIS INDICATING LOADING, ASSUMED ALLOWABLE STRESSES, STRESS DIAGRAM, AND CALCULATIONS, AND ANY OTHER INFORMATION NEEDED FOR REVIEW. THE CALCULATIONS SHALL HAVE BEEN SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT AND WHO IS RESPONSIBLE FOR PREPARATION OF THE CALCULATIONS.

SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

- CONCRETE GROUT DESIGN MIX (PERIODIC)
- PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
- WOOD FRAMING:
 - SHEAR WALLS; WALL SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
 - DIAPHRAGMS (FLOOR AND ROOF SHEATHING); SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
 - FRAMING MEMBERS AND DETAILS (PERIODIC)
 - MATERIAL GRADE (PERIODIC)
 - CONNECTIONS; HANGERS, HOLD DOWNS, BUILT-UP COLUMNS, BUILT-UP BEAMS (PERIODIC)
 - PRE-ENGINEERED TRUSSES; FRAMING, CONNECTIONS, BRIDGING (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

DESIGN DATA	
2018 INTERNATIONAL BUILDING CODE / ASCE 7-16	
BUILDING OCCUPANCY CATEGORY	II
ROOF LOAD DATA	
LIVE LOAD	20
ASPHALT SHINGLES + FELT	40
5/8" OSB ROOF SHEATHING	2.5
PRE-ENGINEERED WOOD TRUSSES @ 2'-0" O.C.	40
INSULATION (BLOWN)	15
MECHANICAL ALLOWANCE	50
5/8" GYP. CEILING	3.0
SOLAR	50
TOTAL TO TRUSSES	45 lbs/sqft
RAIN LOADING DATA	
15 MINUTE RAIN INTENSITY	7.49 in/hr
60 MINUTE RAIN INTENSITY	3.52 in/hr
ROOF SNOW LOAD DATA: (*UNBALANCED & DRIFTING SNOW TO BE DETERMINED IN ADDITION TO UNIFORM LOAD, WHERE APPLICABLE)	
$P_g =$	20 lbs/sqft
$C_g =$	10
$I_s =$	10
$C_r =$	10
$P_f =$	1400 lbs/sqft
WIND DESIGN DATA	
$V_{50} =$	109 MPH (3-SECOND GUST)
RISK CATEGORY	II
EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT =	± 0.18
MAXIMUM COMPONENTS & CLADDING WIND	± 24.97 lbs/sqft
EARTHQUAKE DESIGN DATA	
RISK CATEGORY	II
$I_E =$	10
$S_{DS} =$	0.1
$S_1 =$	0.068
SITE CLASS	C
$S_{MS} =$	0.086
$S_{M1} =$	0.068
SEISMIC DESIGN CATEGORY	B
BASIC SEISMIC-FORCE-RESISTING SYSTEM = LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	
$R =$	6.5
$\Omega_p =$	3.0
$C_d =$	4.0
DESIGN BASE SHEAR	$V = 0.018 W$
EQUIVALENT LATERAL FORCE PROCEDURE	
NET ALLOWABLE SOIL BEARING	
(**PER GEOTECHNICAL REPORT BY OLSSON, INC. DATED AUGUST 22, 2019)	
	2,500 lbs/sqft**

INDEX OF SHEETS	
COVER / GENERAL STRUCTURAL DATA	GS100
FOUNDATION PLAN	GS200-GS208
FOUNDATION DETAILS	GS210-GS211
ROOF FRAMING PLAN	GS300
ROOF FRAMING DETAILS	GS310

REVISIONS:

No.	Date
ISSUE SET	04/15/2024

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#200310301

CLIENT:
INTRINSIC
DEVELOPMENT
3632 ENDEAVOR AVE.
COLUMBIA, MISSOURI

Alura Village Garage Building Type "A"

Lee's Summit, Jackson County, Missouri

DRAWING INCLUDES:

GENERAL
STRUCTURAL DATA

DESIGNED: JWV

DRAWN: SEH

PROJECT NO.: 230286

SHEET:
GS100

NOTE:
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;
EDGE OF SLAB OR TRUSS/RAFTER; OR CENTERLINE
OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

FOUNDATION NOTES

- ① REENTRANT CORNER BARS, REFER TO TYPICAL CRACK CONTROL REINFORCING DETAIL ON SHEET GS210.
② FOOTING STEP, REFER TO DETAIL FS1/GS211.
③ FOOTING STEP, REFER TO DETAIL FS2/GS211.
④ FOOTING STEP, REFER TO DETAIL FS3/GS211.

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CLIENT:
INTRINSIC DEVELOPMENT
3627 ENDENAVOR AVE.
COLUMBIA, MISSOURI

Alura Village Garage Building Type "A"
Lee's Summit, Jackson County, Missouri

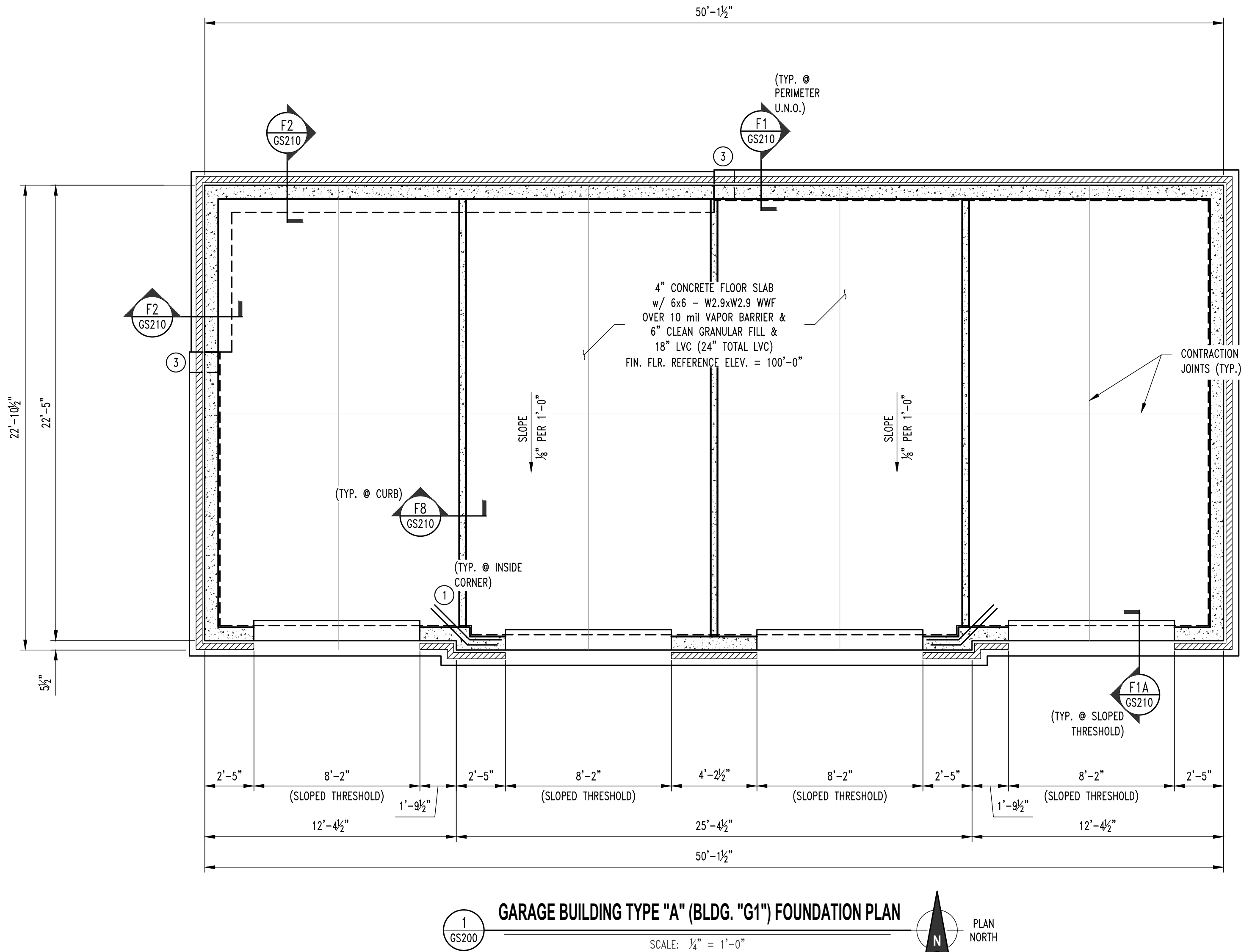
DRAWING INCLUDES:
FOUNDATION PLAN

DESIGNED: JWV

DRAWN: SEH

PROJECT NO.: 230286

SHEET:
GS200



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- FOOTING STEP, REFER TO DETAIL FS1/GS211.
- FOOTING STEP, REFER TO DETAIL FS2/GS211.
- FOOTING STEP, REFER TO DETAIL FS3/GS211.
- TOP OF WALL STEPS 1'-6". REFER TO DETAILS F3 & F4 ON SHEET GS210.

REVISIONS:

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COLUMBIA, MISSOURI

Alura Village Garage Building Type "A"
Lee's Summit, Jackson County, Missouri

DRAWING INCLUDES:

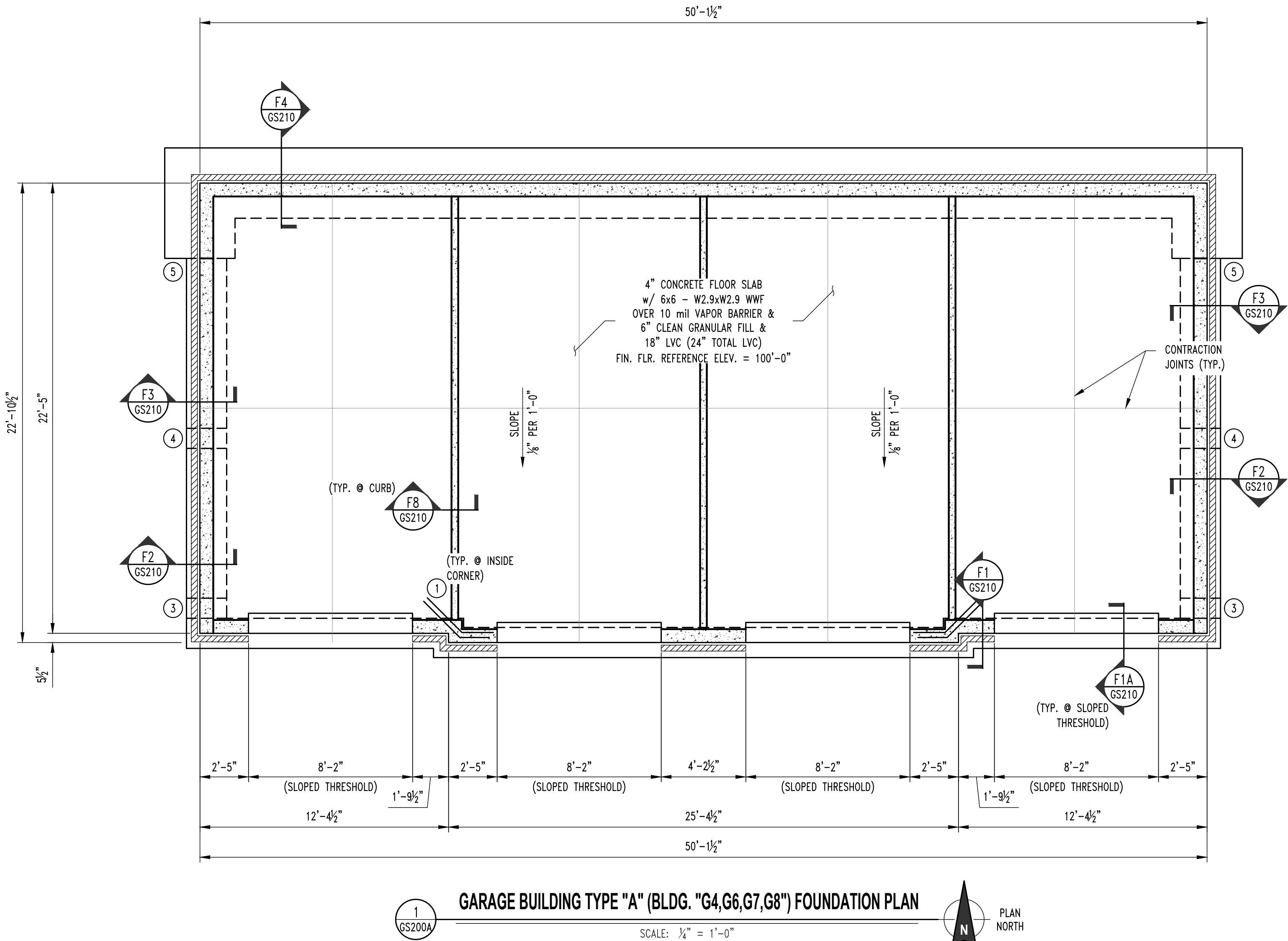
FOUNDATION
PLAN

DESIGNED: JWV

DRAWN: SEH

PROJECT NO.: 230286

SHEET:
GS200A



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② FOOTING STEP, REFER TO DETAIL FS1/GS211.
③ FOOTING STEP, REFER TO DETAIL FS2/GS211.
④ FOOTING STEP, REFER TO DETAIL FS3/GS211.

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CLIENT:
INTRINSIC DEVELOPMENT
3622 ENDENAVOR AVE.
COLUMBIA, MISSOURI

Alura Village Garage Building Type "A"
Lee's Summit, Jackson County, Missouri

DRAWING INCLUDES:

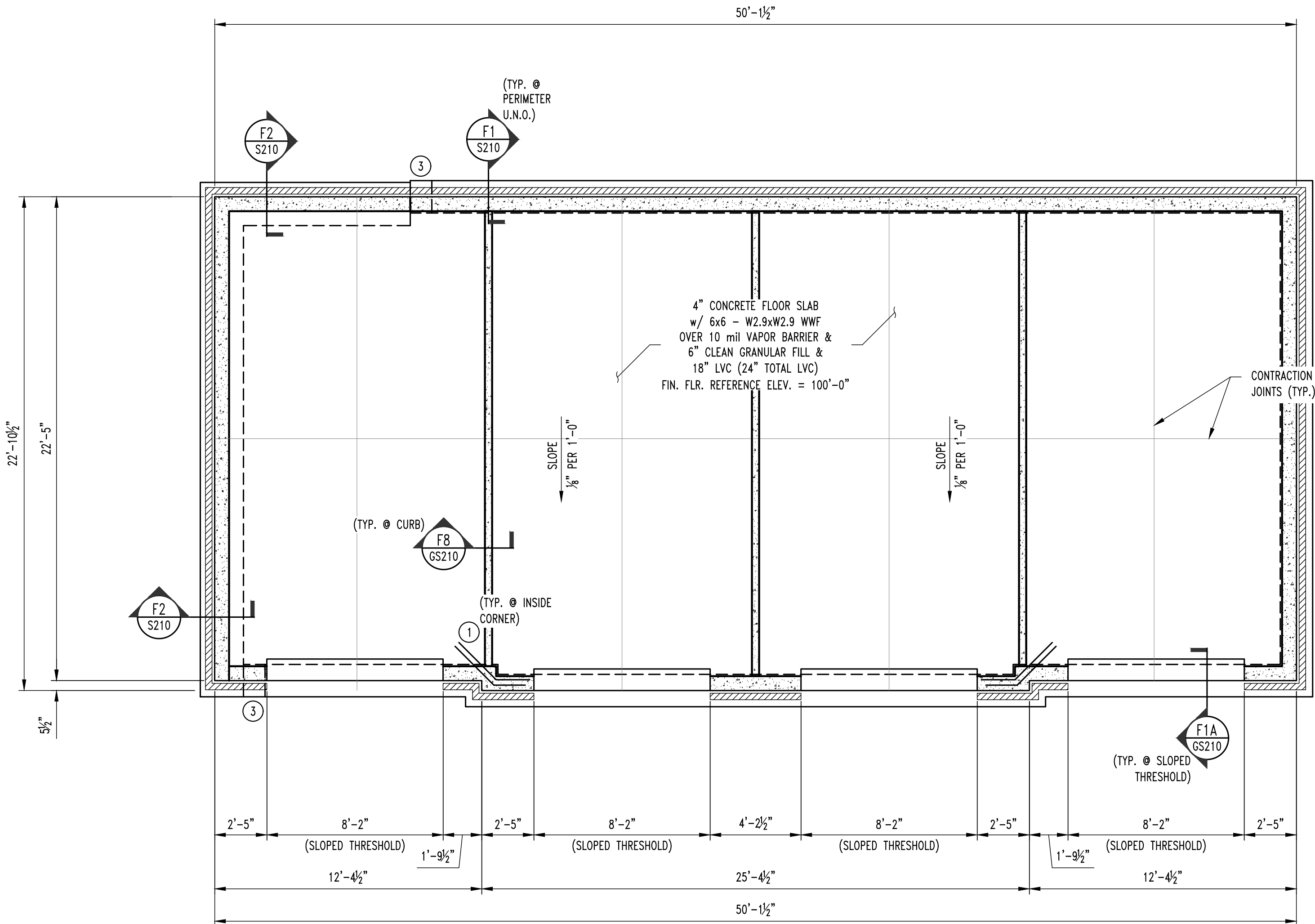
FOUNDATION
PLAN

DESIGNED: JWV

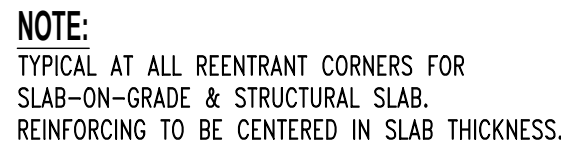
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PROJECT NO.: 230286

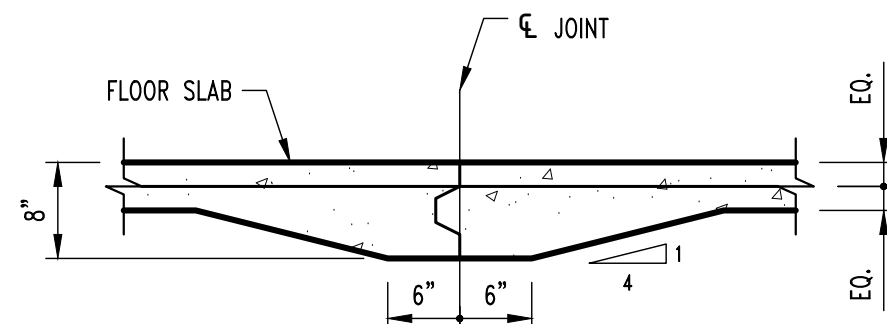
SHEET:
GS200B



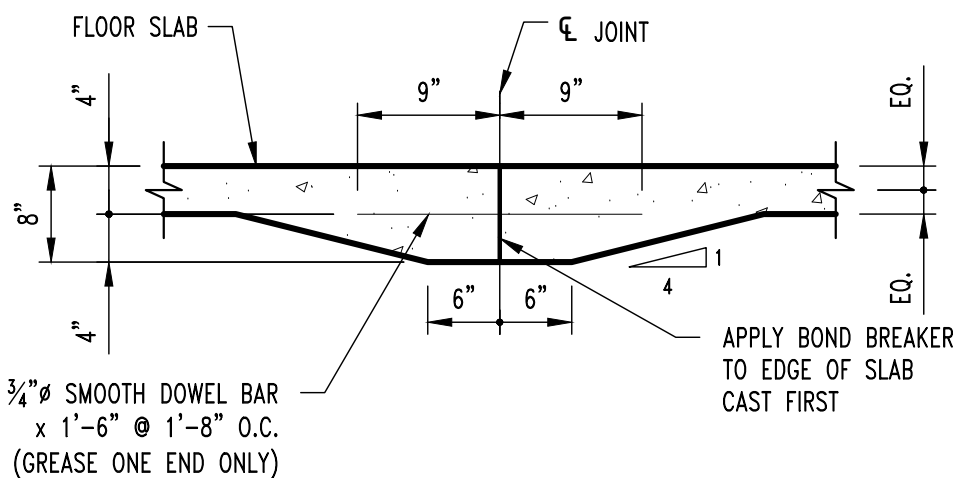
1 GS200B GARAGE BUILDING TYPE "A" (BLDG. "G10") FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



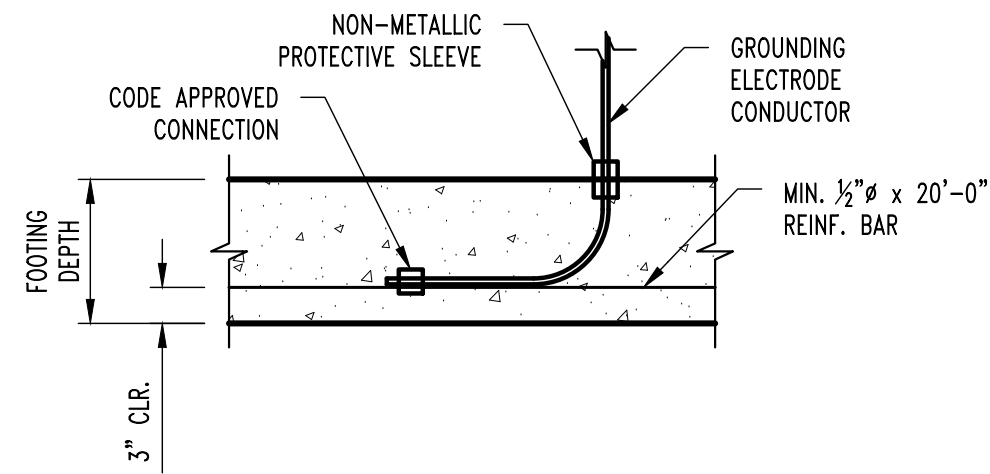
CONTRACTION JOINT



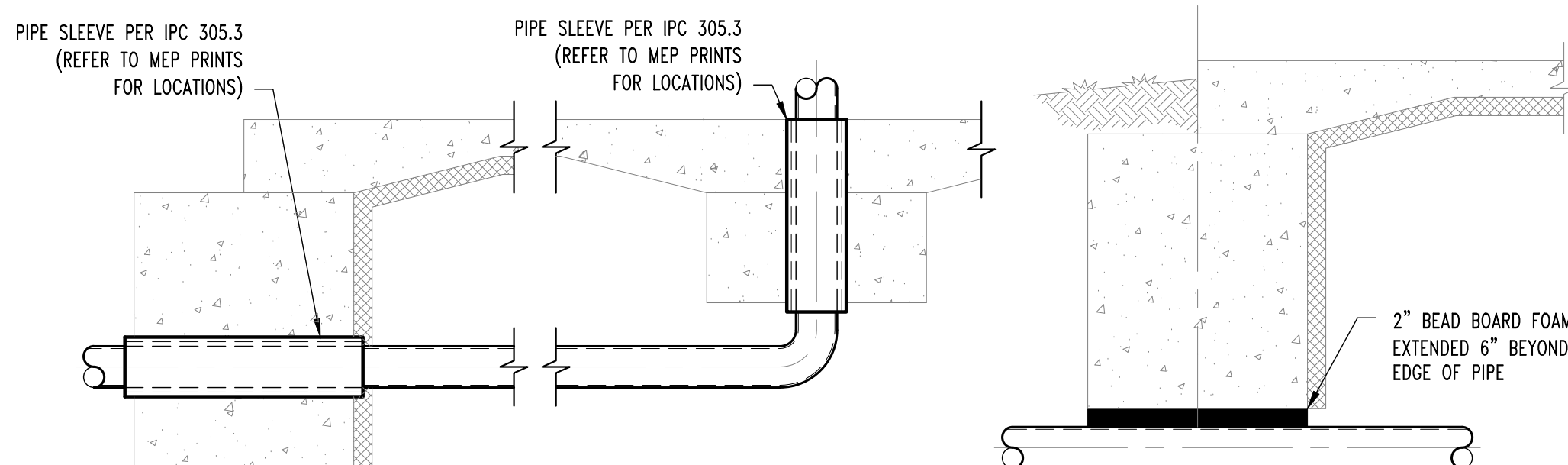
CONSTRUCTION JOINT



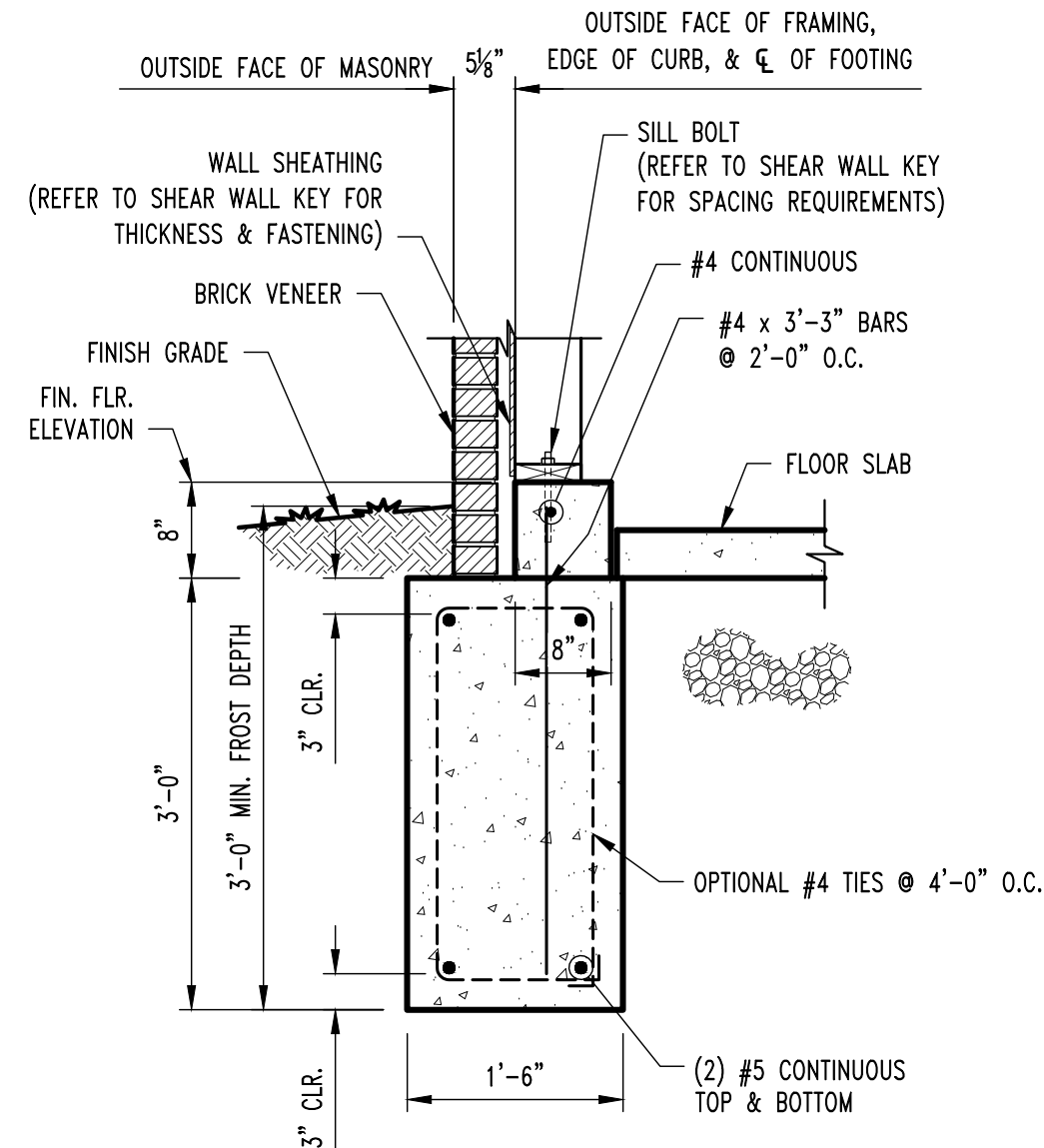
CONSTRUCTION JOINT



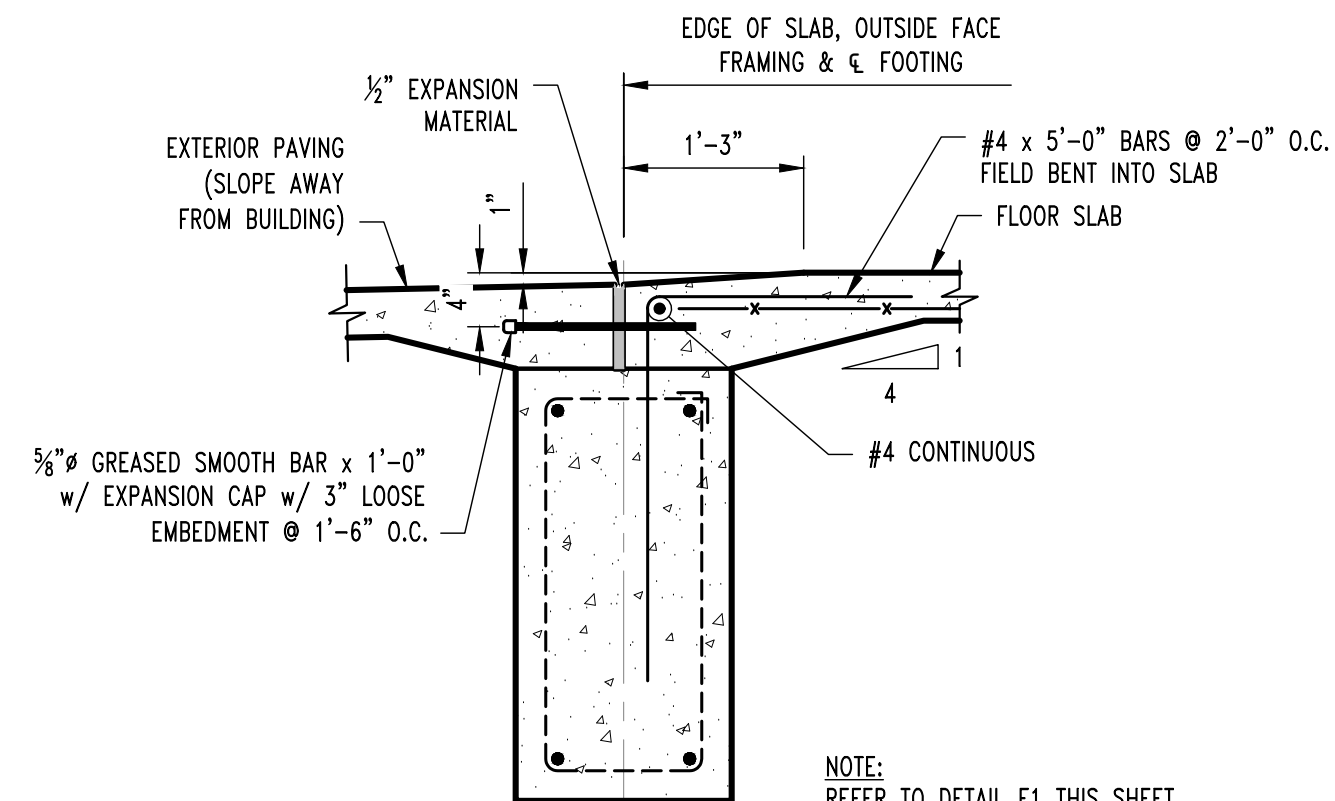
TYP. ELECTRICAL GROUNDING DETAIL @ FOOTING



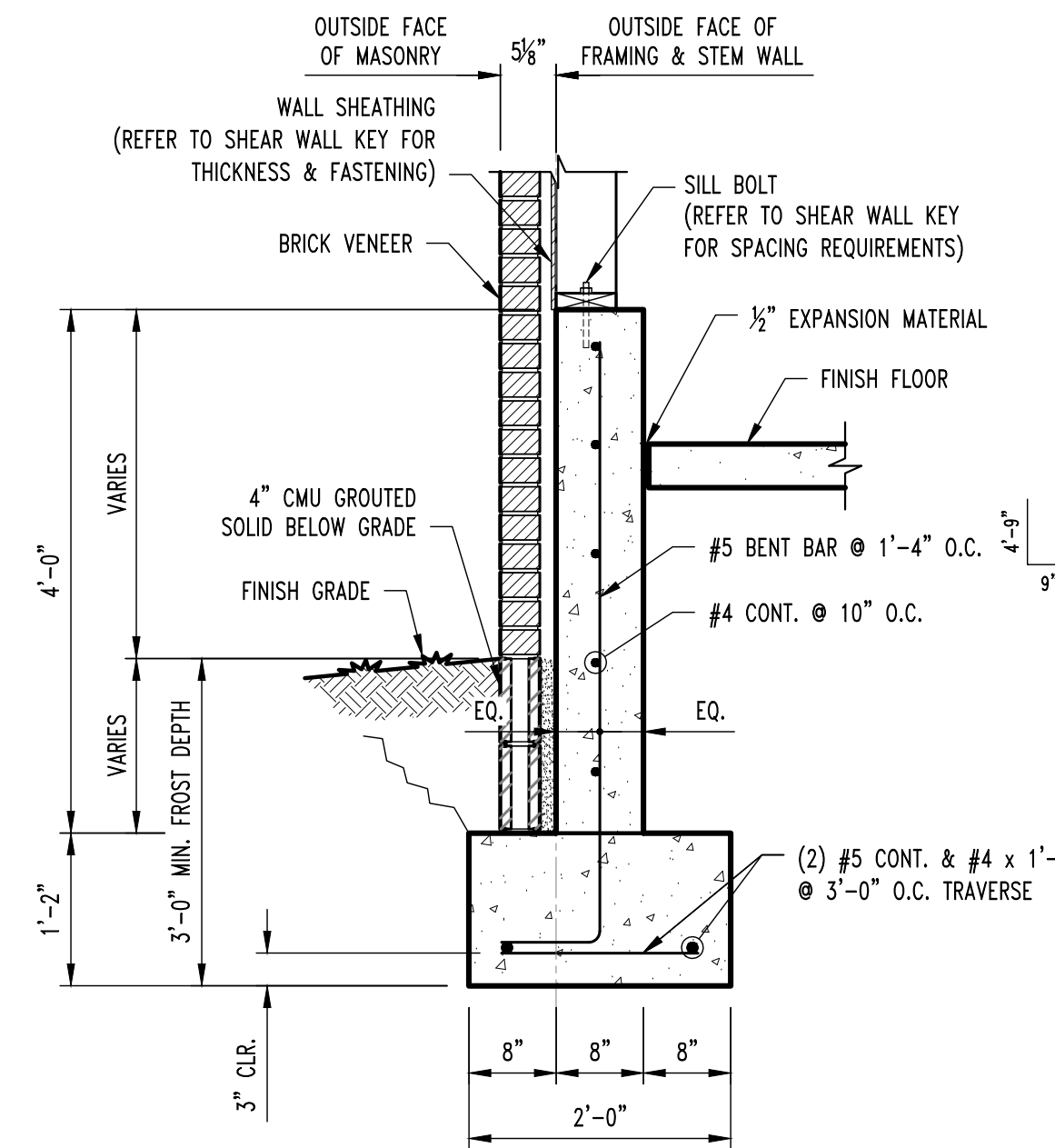
TYP. PLUMBING COORDINATION DETAILS



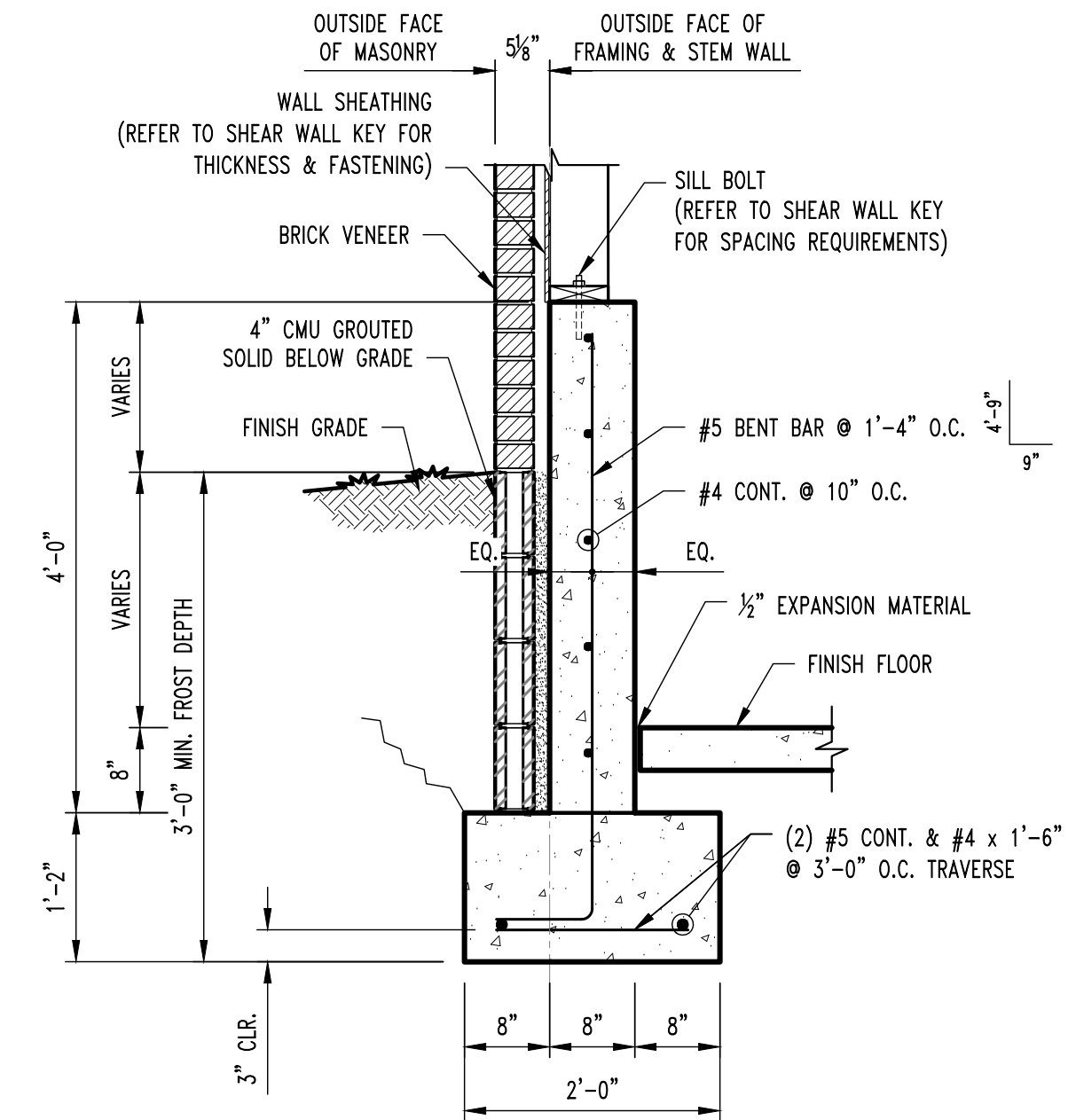
Garage Cont. Footing Section



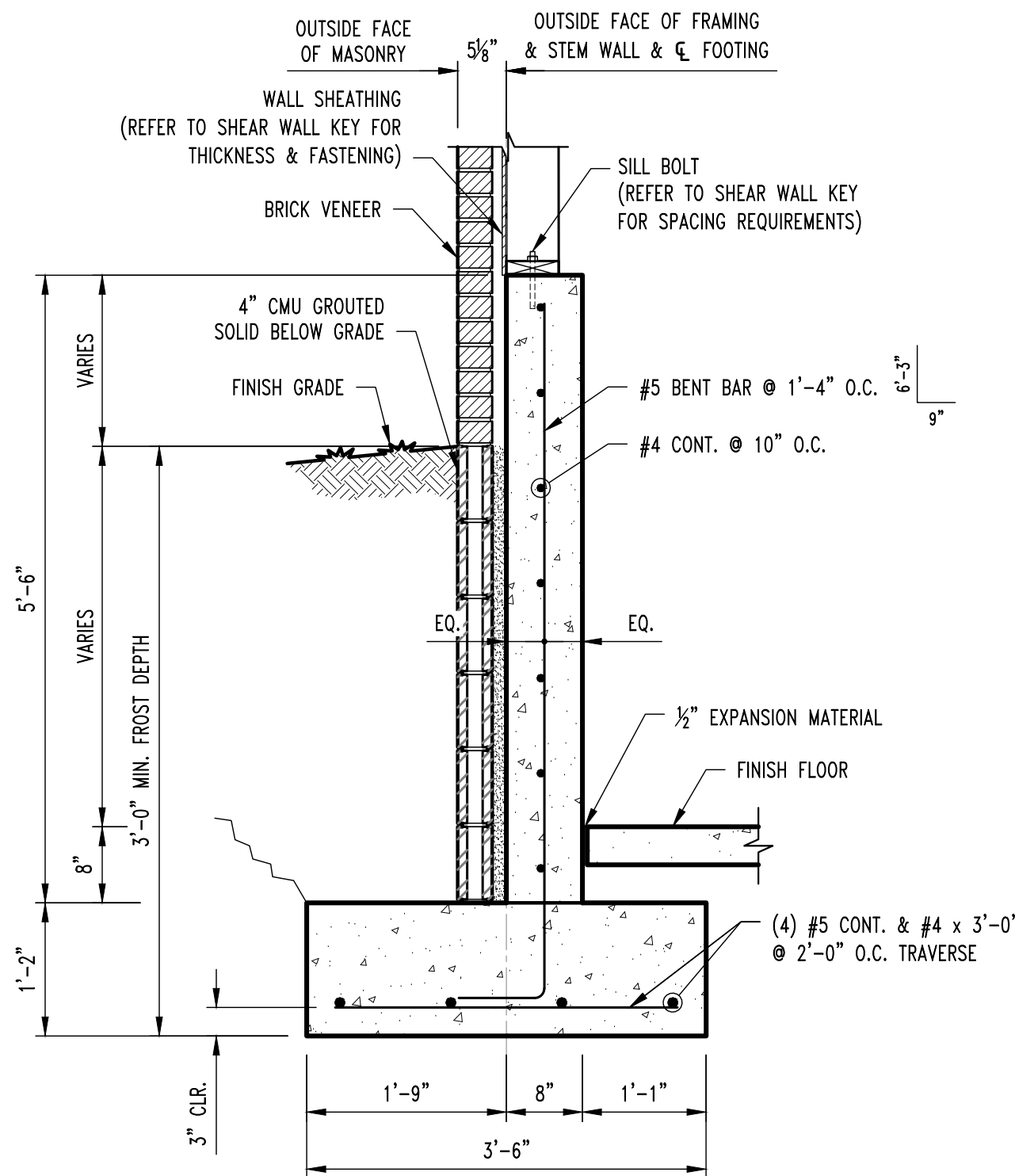
SLOPED THRESHOLD SECTION @ OVHD DOOR



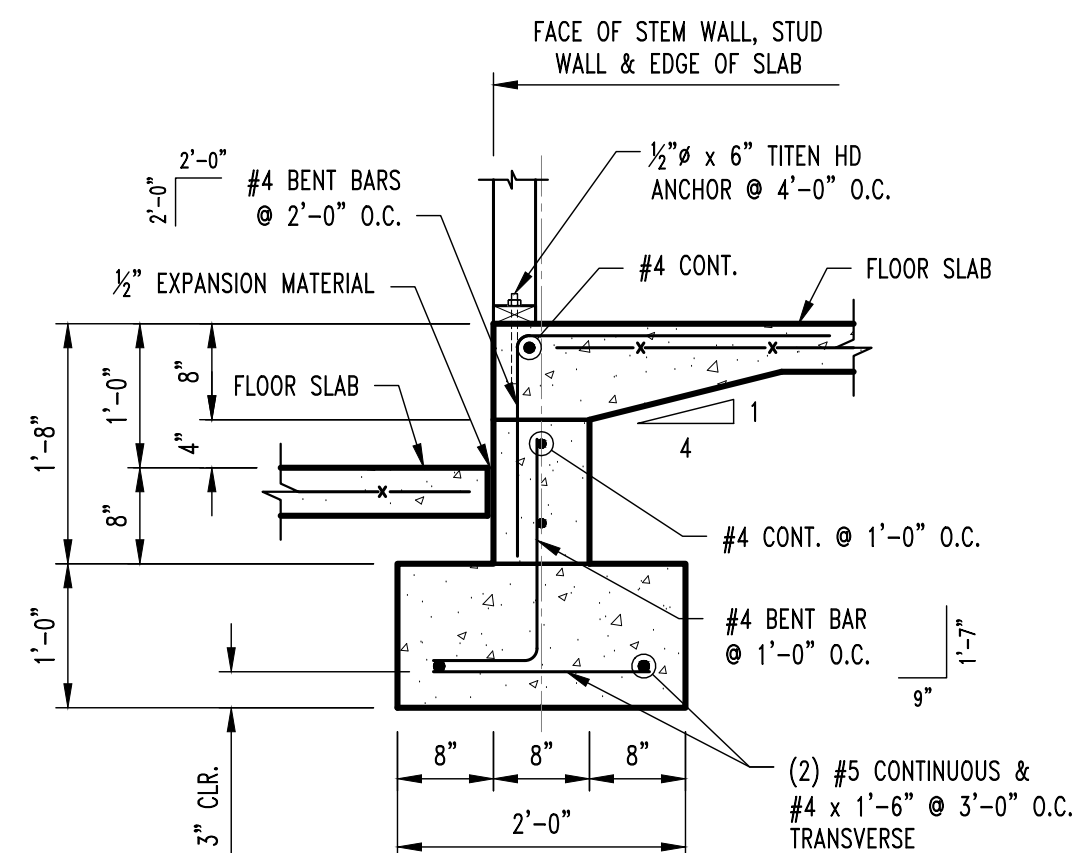
STEM WALL DETAIL



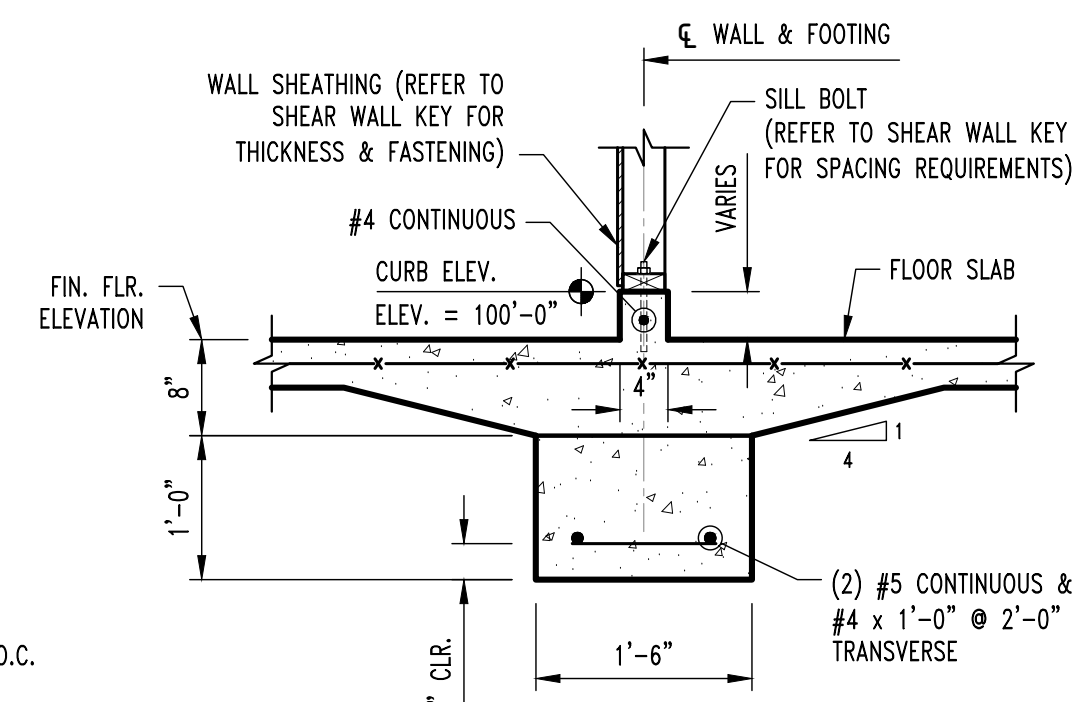
STEM WALL DETAIL
SCALE: $\frac{1}{4}" = 1'-0"$



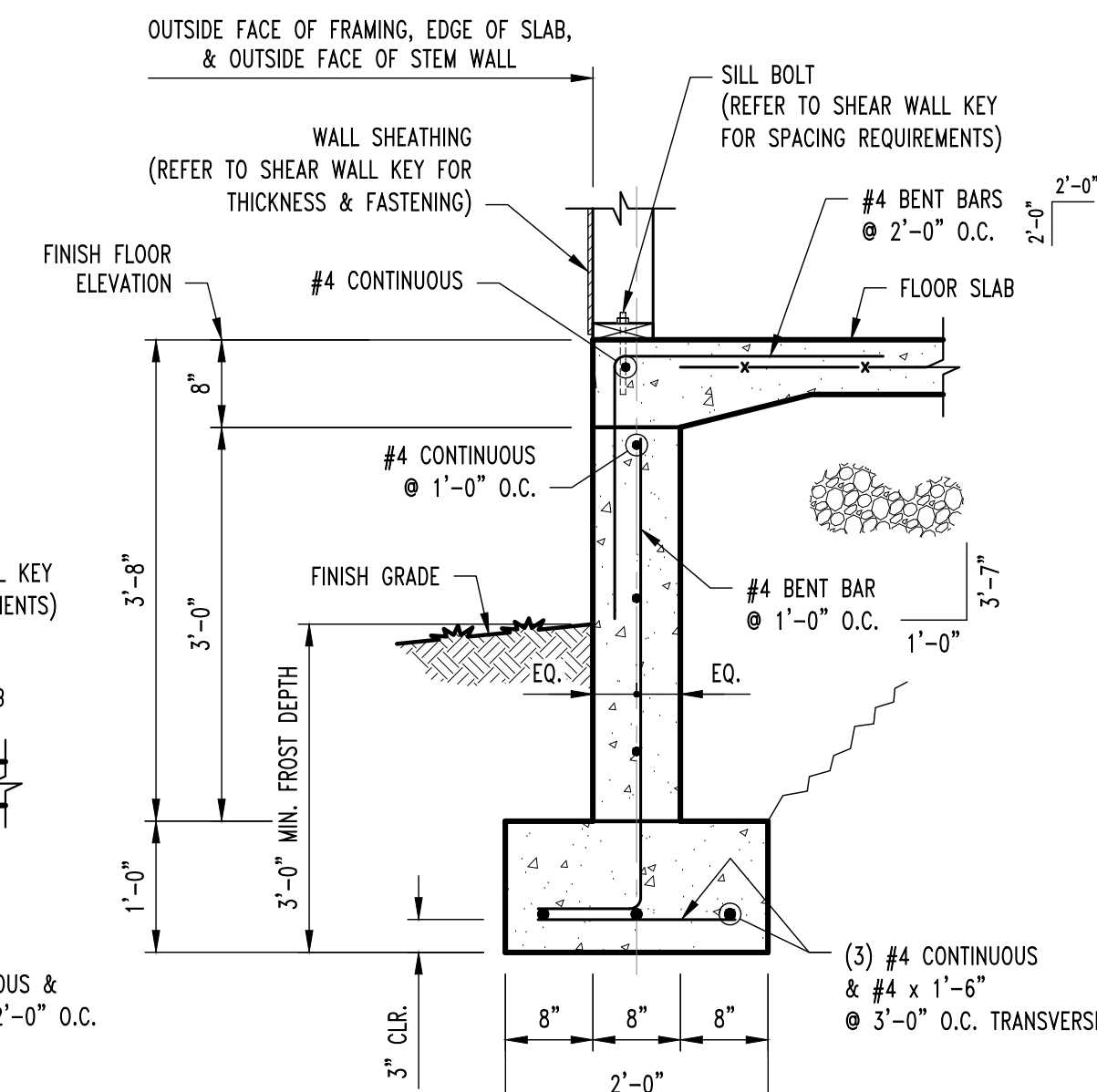
STEM WALL DETAIL
SCALE: $\frac{1}{4}" = 1'-0"$



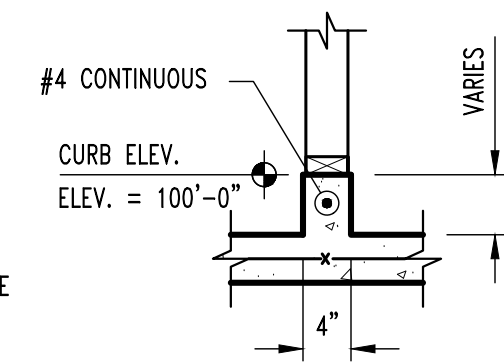
CONTINUOUS FOOTING SECTION @ STEP



CONT. INTERIOR FOOTING SECTION



STEM WALL SECTION
SCALE: $\frac{3}{4}" = 1'-0"$



TYP. GARAGE CURB SECTION

[illegible]

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**INTRINSIC
DEVELOPMENT**
3622 ENDEAVOR AVE.
COLUMBIA, MISSOURI

Alura Village Garage Building Type "A"

Lee's Summit, Jackson County, Missouri

DRAWING INCLUDES:

FOUNDATION DETAILS

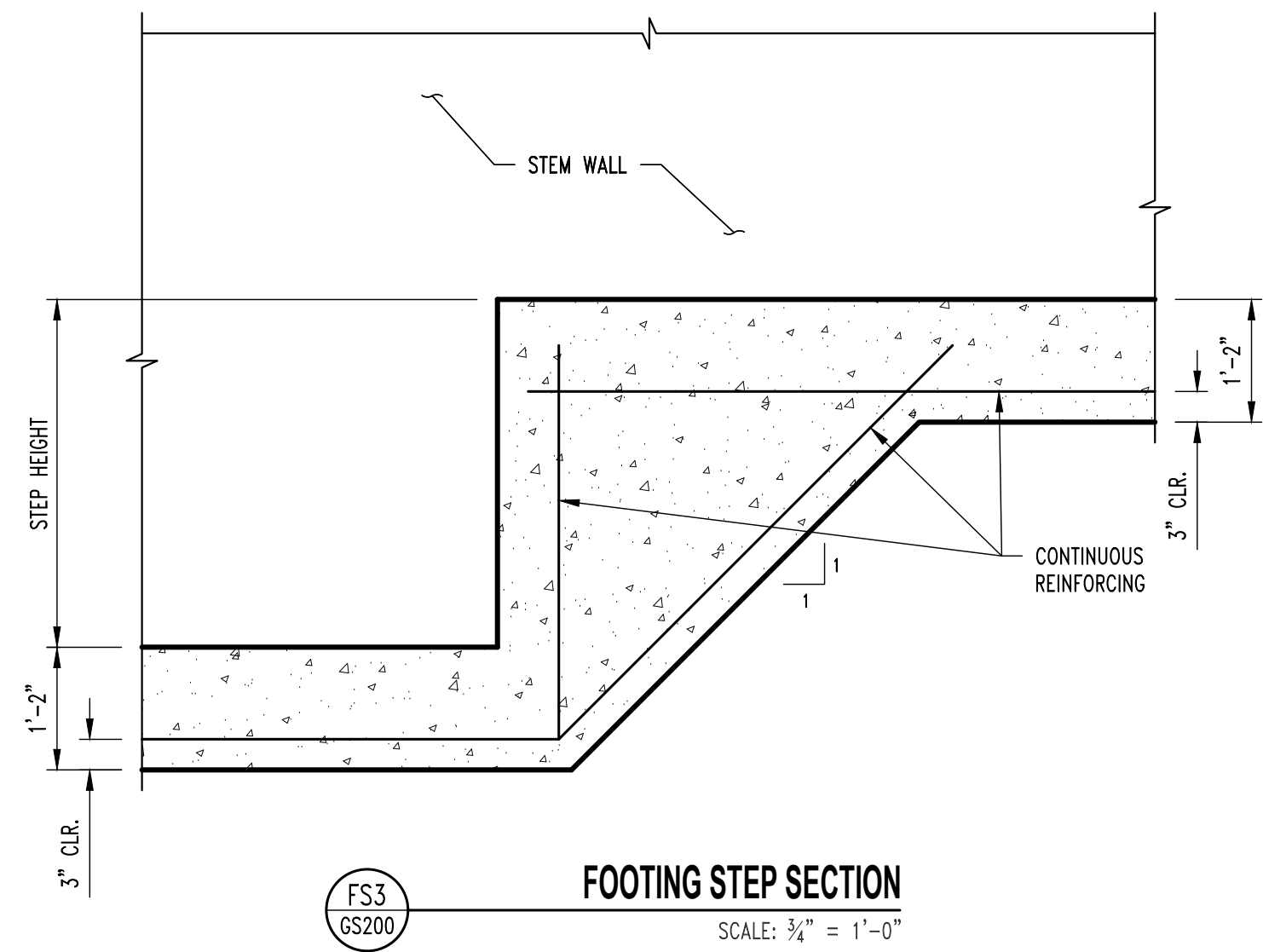
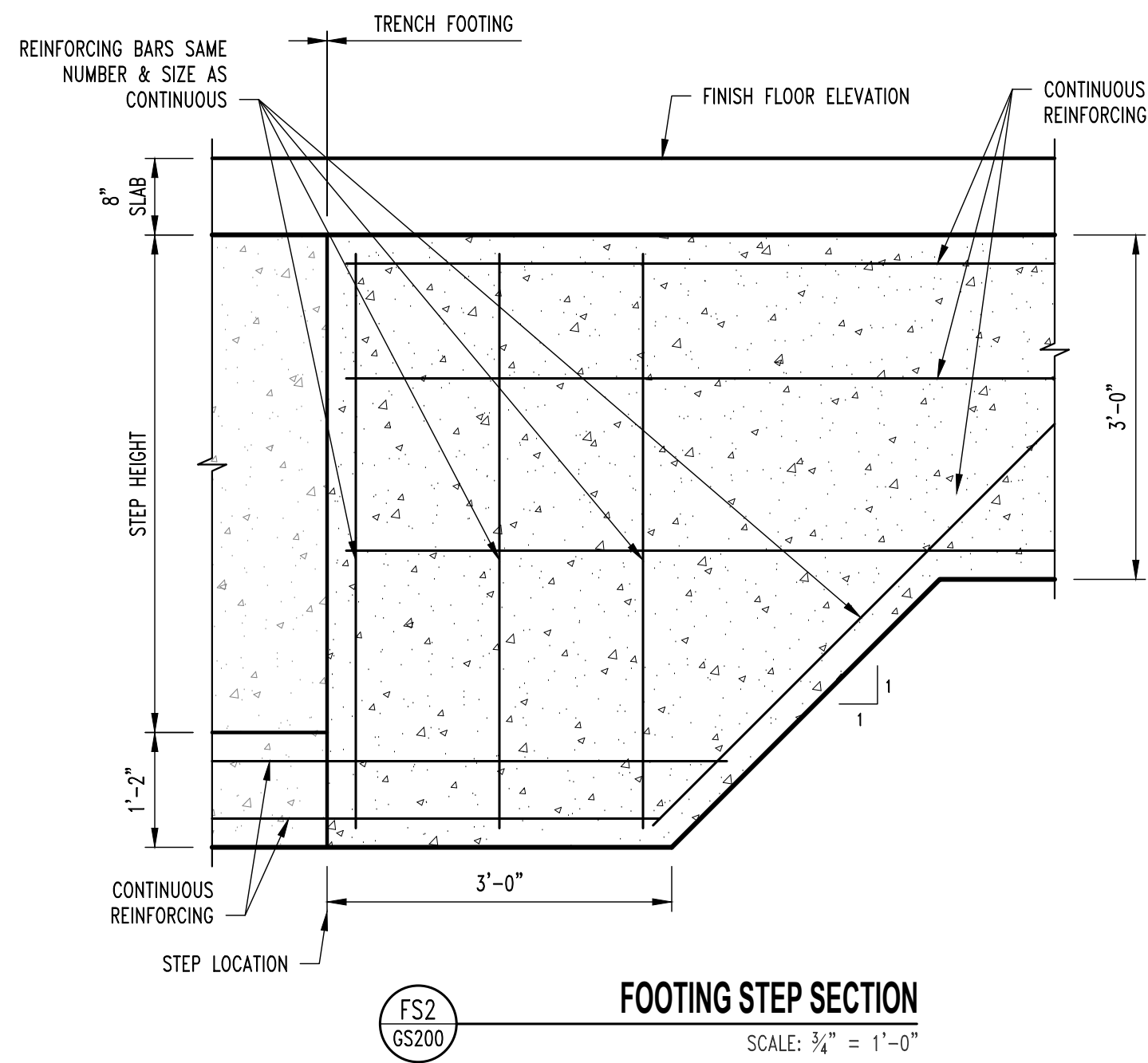
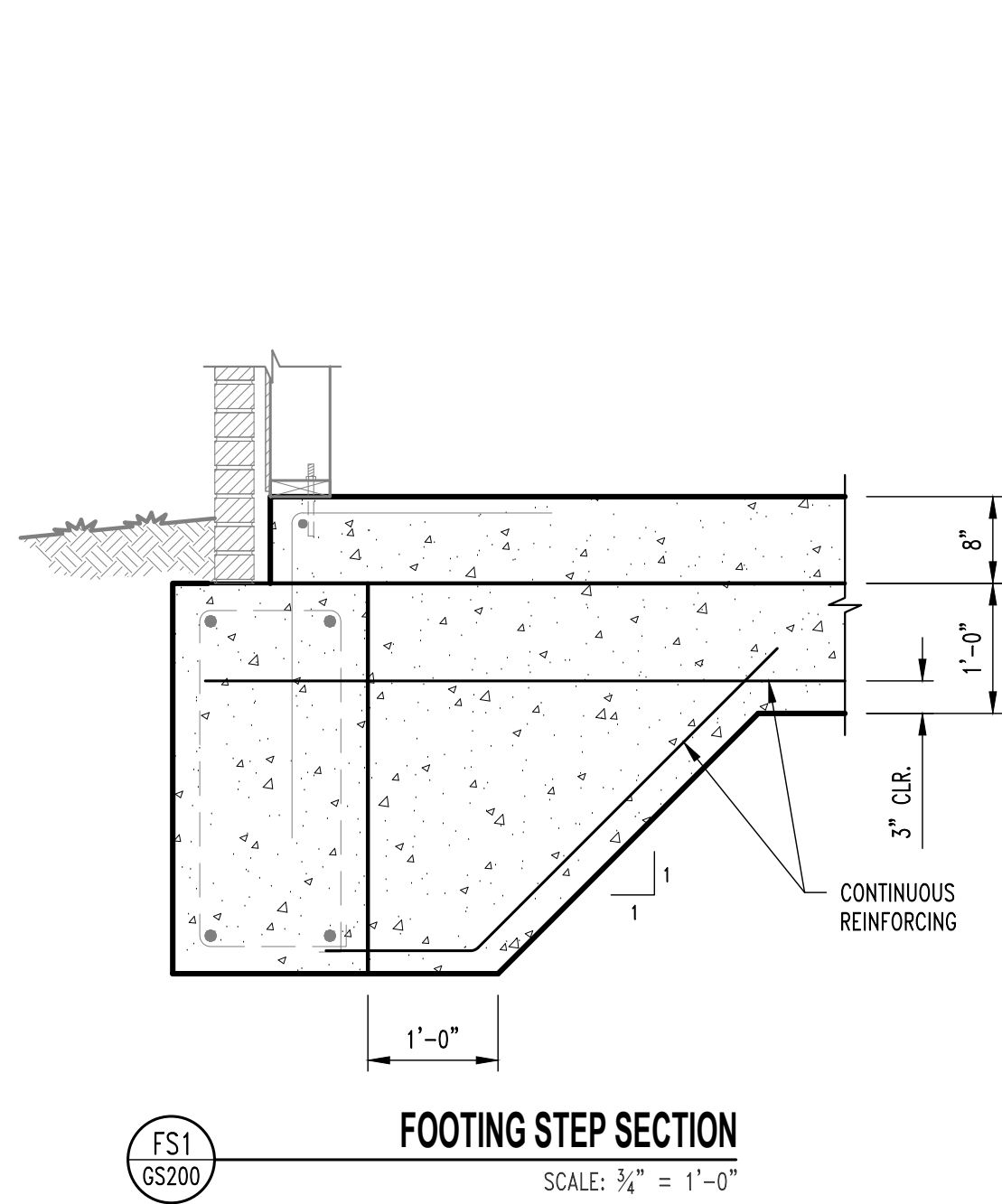
DESIGNED: JWW

RAWN: SEH

PROJECT NO.: 230286

SHEET:

S210



REVISIONS:

No.	Date
ISSUE SET	04/15/2024

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STATE OF MISSOURI

JARED W. VOGLUES

NUMBER

PE-2017090387

PROFESSIONAL ENGINEER

04/15/2025

STRUCTURAL ENGINEER:

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CLIENT:

INTRINSIC DEVELOPMENT

3622 ENDENBOR AVE.

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Lee's Summit, Jackson County, Missouri

DRAWING INCLUDES:

FOUNDATION DETAILS

DESIGNED:

JWV

DRAWN:

SEH

PROJECT NO.:

230286

SHEET:

GS211

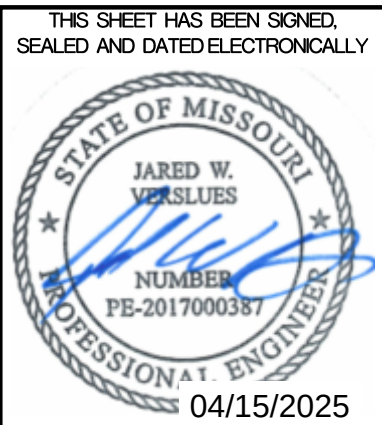
NOTE:
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EDGE OF SLAB OR TRUSS/RAFTER; OR CENTERLINE
OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

ROOF FRAMING NOTES

- 1 FRAME ROOF OVER PRE-ENGINEERED TRUSSES TO
CREATE RIDGE, VALLEY, OR HIP AS SHOWN w/ 2x SPF
No.1/No.2 RAFTERS @ 16" O.C. OR PRE-ENGINEERED
TRUSSES @ 2'-0" O.C. MAX. (SHADED AREA)
- 2 ATTIC ACCESS; REFER TO ARCHITECTURALS FOR
ADDITIONAL INFORMATION.
- 3 GIRDER TRUSS
- 4 3-PLY BUILT-UP POST BENEATH GIRDER TRUSS
THIS LEVEL TO FLOOR SLAB
CONNECTIONS ARE AS FOLLOWS:
FLOOR SLAB: SIMPSON LITTPZ.
ROOF TRUSS: BY TRUSS MANUFACTURER
- 5 GIRDER TO HEADER CONNECTION. REFER TO TYPICAL
DETAIL ON SHEET S310.
- 6 REFER TO TYPICAL SHEAR WALL DETAIL ON SHEET S310.

REVISIONS:

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CLIENT:

**INTRINSIC
DEVELOPMENT**

3622 ENDAVOR AVE.
COLUMBIA, MISSOURI

Aura Village Garage Building Type "A"

Lee's Summit, Jackson County, Missouri

DRAWING INCLUDES:

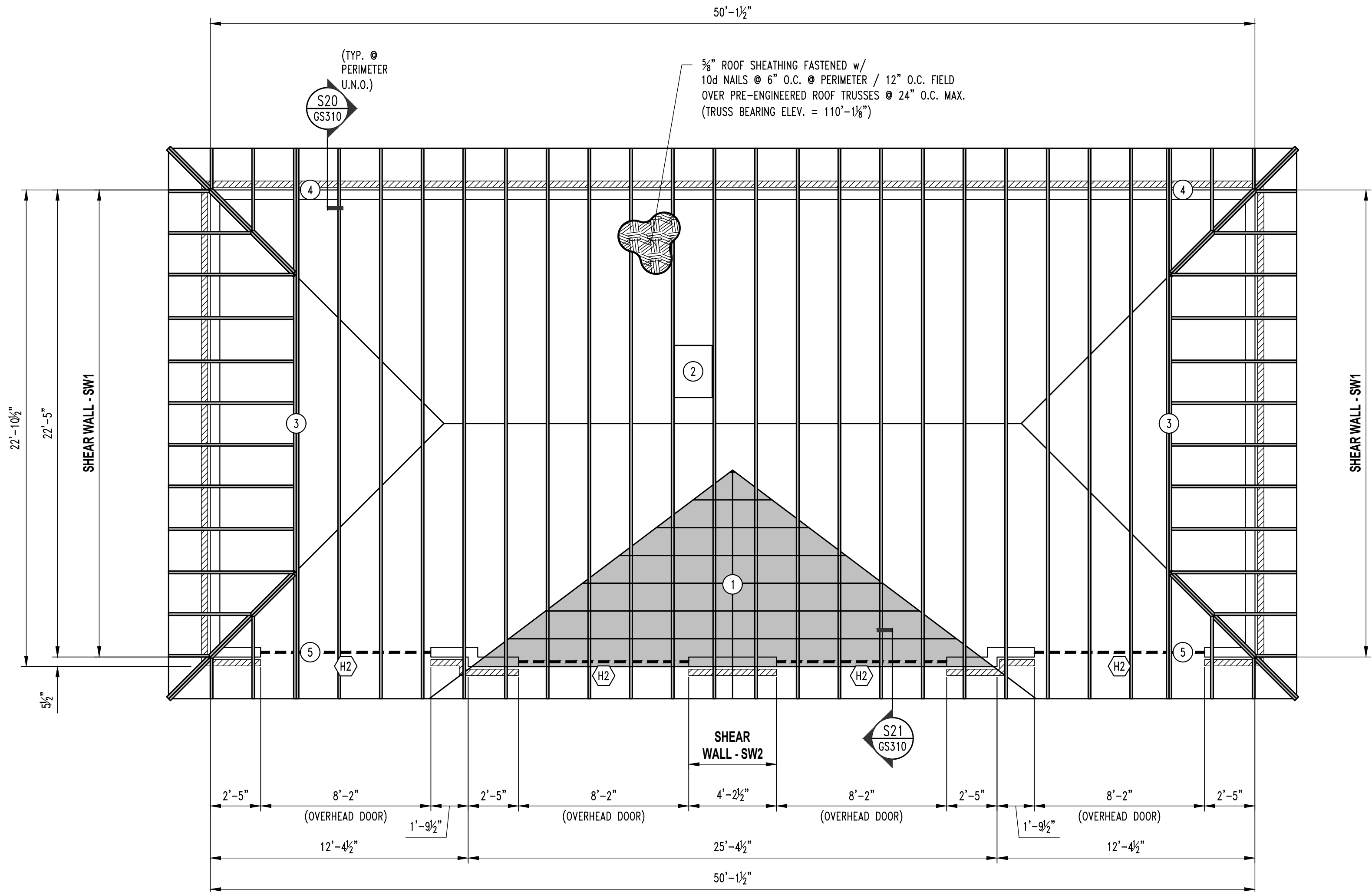
ROOF
FRAMING PLAN

DESIGNED: JWV

DRAWN: SEH

PROJECT NO.: 230286

SHEET:
GS300



1
GS300

GARAGE BUILDING TYPE "A" ROOF FRAMING PLAN

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

PLAN
NORTH

SHEAR WALL KEY

- SW1 SHEAR WALL**
- FIRST FLOOR:
- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C. FIELD
 - 1/2" DIAMETER X 6" SIMPSON TITEN HD ANCHOR SCREWS @ 3'-0" O.C.
 - REQUIRES SIMPSON DTT2Z-SDS2.5 HOLDOWN FASTENED TO 2-PLY STUDS W/ (8) 3/4" X 13/8" SDS SCREWS W/ 1/2" DIAMETER A307 THREADED ROD W/ 16" TOTAL (8" INTO FOOTING) SIMPSON "AT-3G" EPOXY EMBEDMENT AT EACH END OF THE SHEAR WALL

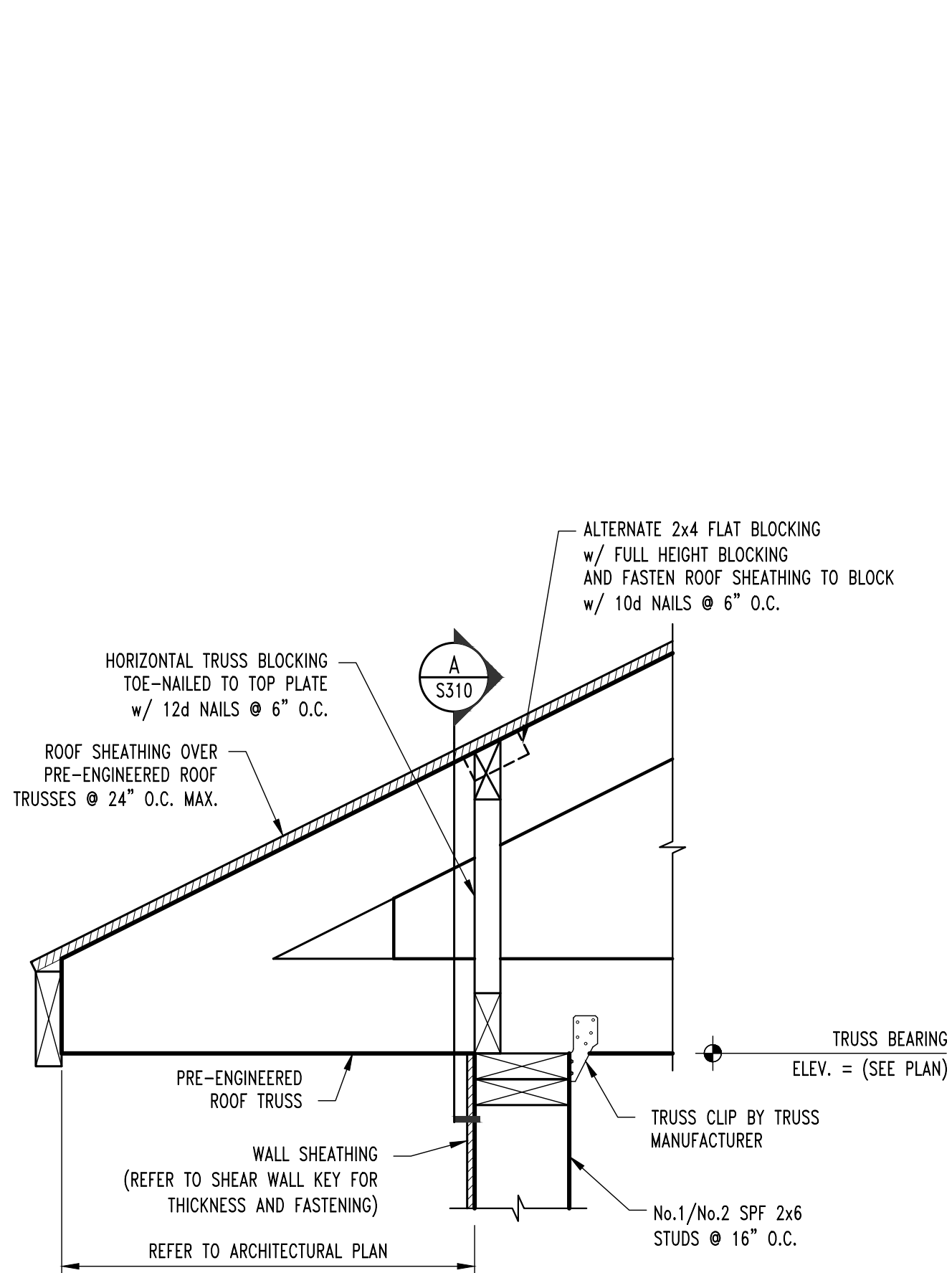
- SW2 SHEAR WALL**
- FIRST FLOOR:
- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C. FIELD
 - 1/2" DIAMETER X 6" SIMPSON TITEN HD ANCHOR SCREWS @ 2'-0" O.C.
 - REQUIRES SIMPSON WTT4 TENSION TIE FASTENED TO 2-PLY STUDS W/ (18) #10 X 13/8" SDS SCREWS W/ 5/8" DIAMETER A307 THREADED ROD W/ 16" TOTAL (8" INTO FOOTING) SIMPSON "AT-3G" EPOXY EMBEDMENT AT EACH END OF THE SHEAR WALL

- SW3 SHEAR WALL**
- FIRST FLOOR:
- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 2" O.C. @ PERIMETER / 12" O.C. FIELD (**NOTE:** THIS SHEET FASTENING PATTERN REQUIRES 3X OR DOUBLE 2X FRAMING MEMBERS WHERE SHEETS MEET)
 - 1/2" DIAMETER X 6" SIMPSON TITEN HD ANCHOR SCREWS @ 1'-0" O.C.
 - REQUIRES SIMPSON HDU8-SDS2.5 HOLDOWN FASTENED TO 3-PLY STUDS W/ (20) 3/4" X 2 3/4" SDS SCREWS W/ 7/8" DIAMETER A307 THREADED ROD W/ 20" TOTAL (12" INTO FOOTING) SIMPSON "AT-3G" EPOXY EMBEDMENT AT EACH END OF THE SHEAR WALL

- TYPICAL SHEAR WALL UNLESS NOTED
- 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C. FIELD
 - 1/2" DIAMETER X 6" SIMPSON TITEN HD ANCHOR SCREWS @ 3'-0" O.C.
 - NO HOLDOWNS REQUIRED

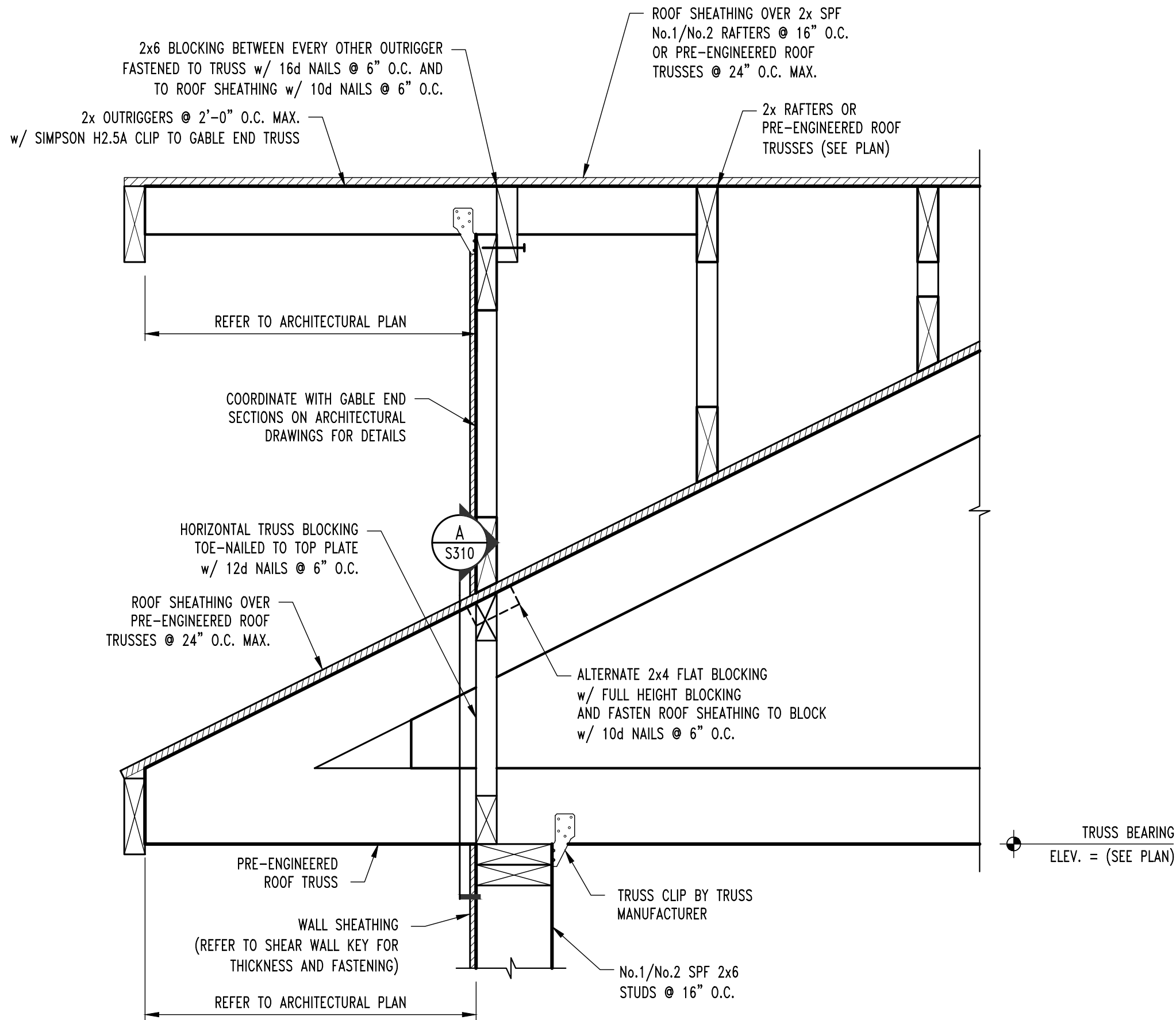
BRICK LINTEL SCHEDULE	
LENGTH	MEMBER SIZE (GALVANIZED)
L ≤ 4'-0"	L4x4x3/8 WITH 6" BEARING EACH END
L ≤ 8'-6"	L6x4x3/8 (LLV) WITH 6" BEARING EACH END

HEADER SCHEDULE			
LABEL	HEADER	CRIPPLE/JACK	JAMBUKING
"H1"	2 Ply 2x8 Doug. Fir No.2	Single Ply 2x6 SPF No.1/No.2	Single Ply 2x6 SPF No.1/No.2
"H2"	2 Ply 2x10 Doug. Fir Sel. Struct.	2 Ply 2x6 SPF No.1/No.2	2 Ply 2x6 SPF No.1/No.2
"H3"	3 Ply 2x10 Doug. Fir Sel. Struct.	2 Ply 2x6 SPF No.1/No.2	2 Ply 2x6 SPF No.1/No.2
"H4"	3 Ply 2x12 Doug. Fir Sel. Struct.	2 Ply 2x6 SPF No.1/No.2	2 Ply 2x6 SPF No.1/No.2



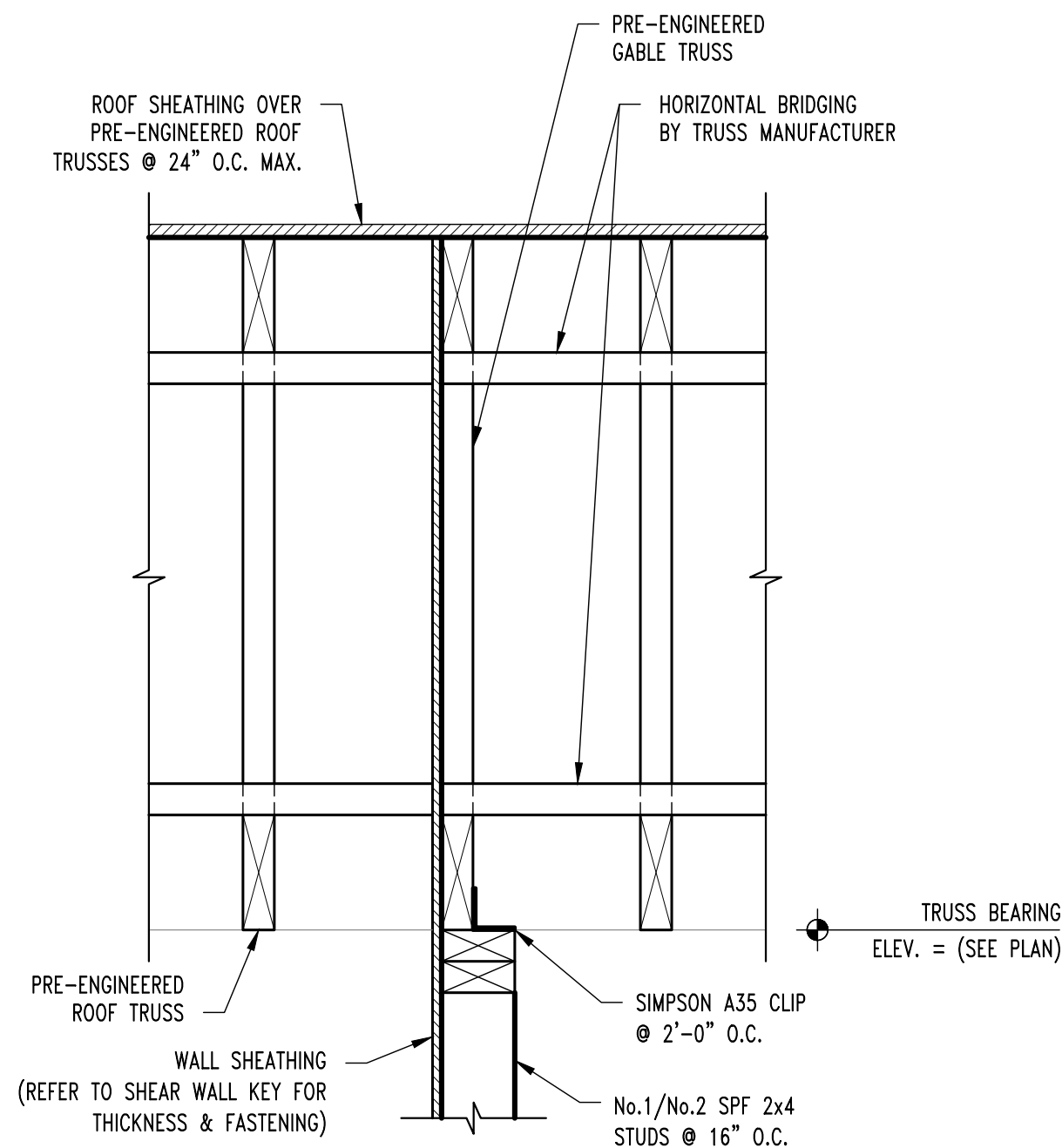
S20
GS300

TYP. ROOF FRAMING SECTION
SCALE: 1 1/2" = 1'-0"



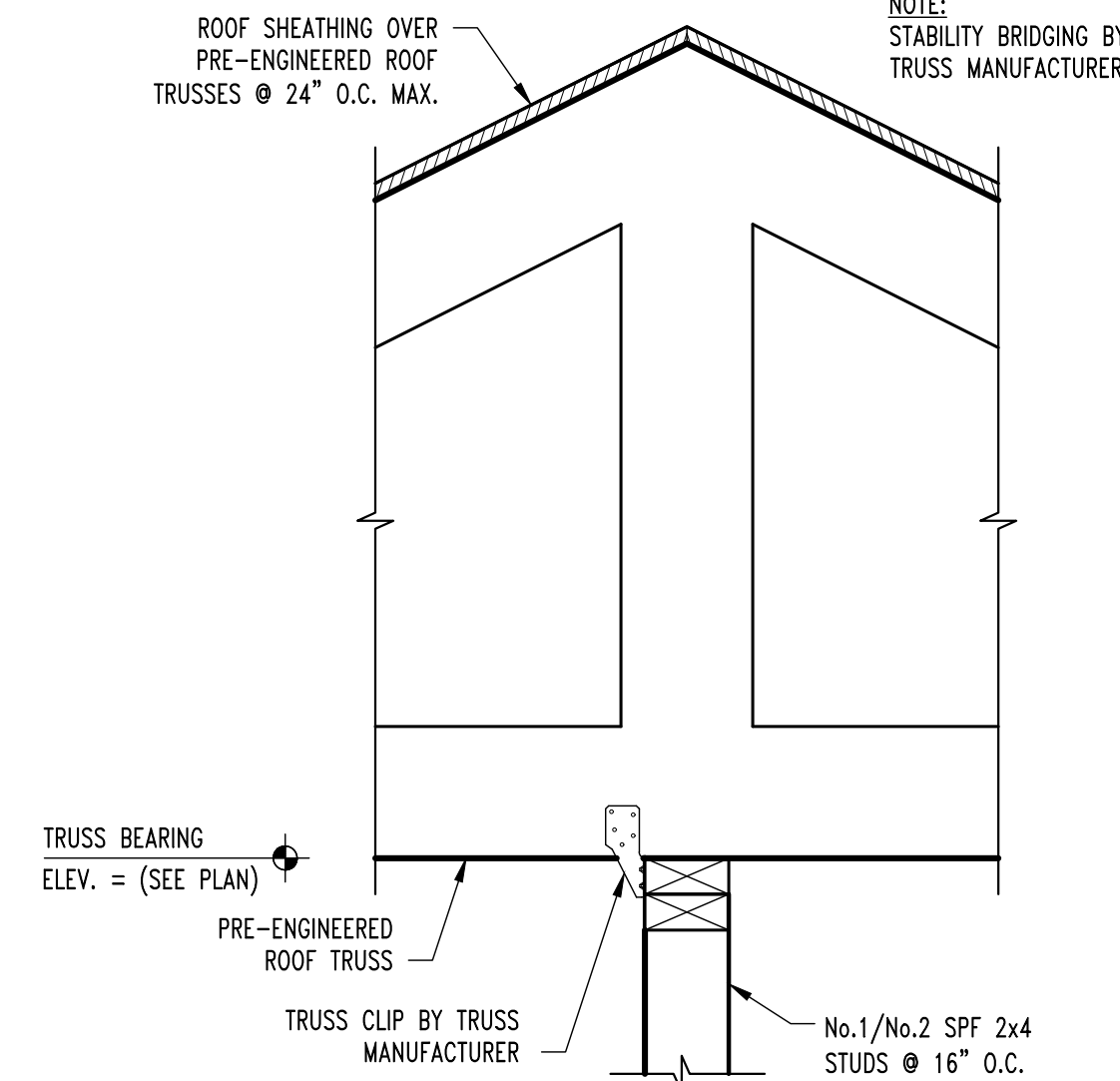
S21
GS300

TYP. ROOF FRAMING SECTION
SCALE: 1 1/2" = 1'-0"



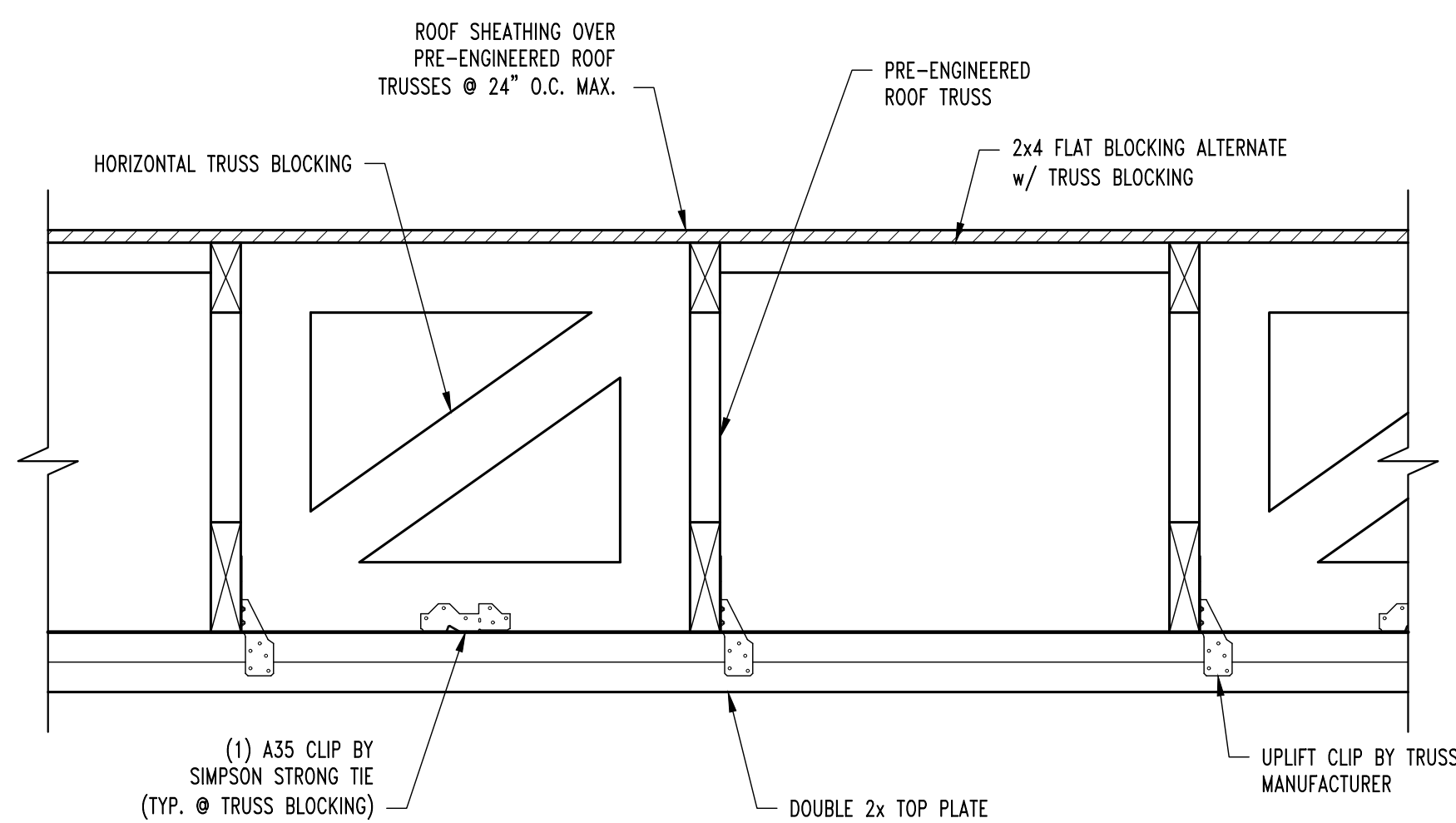
S22
GS300

ROOF FRAMING SECTION
SCALE: 1 1/2" = 1'-0"



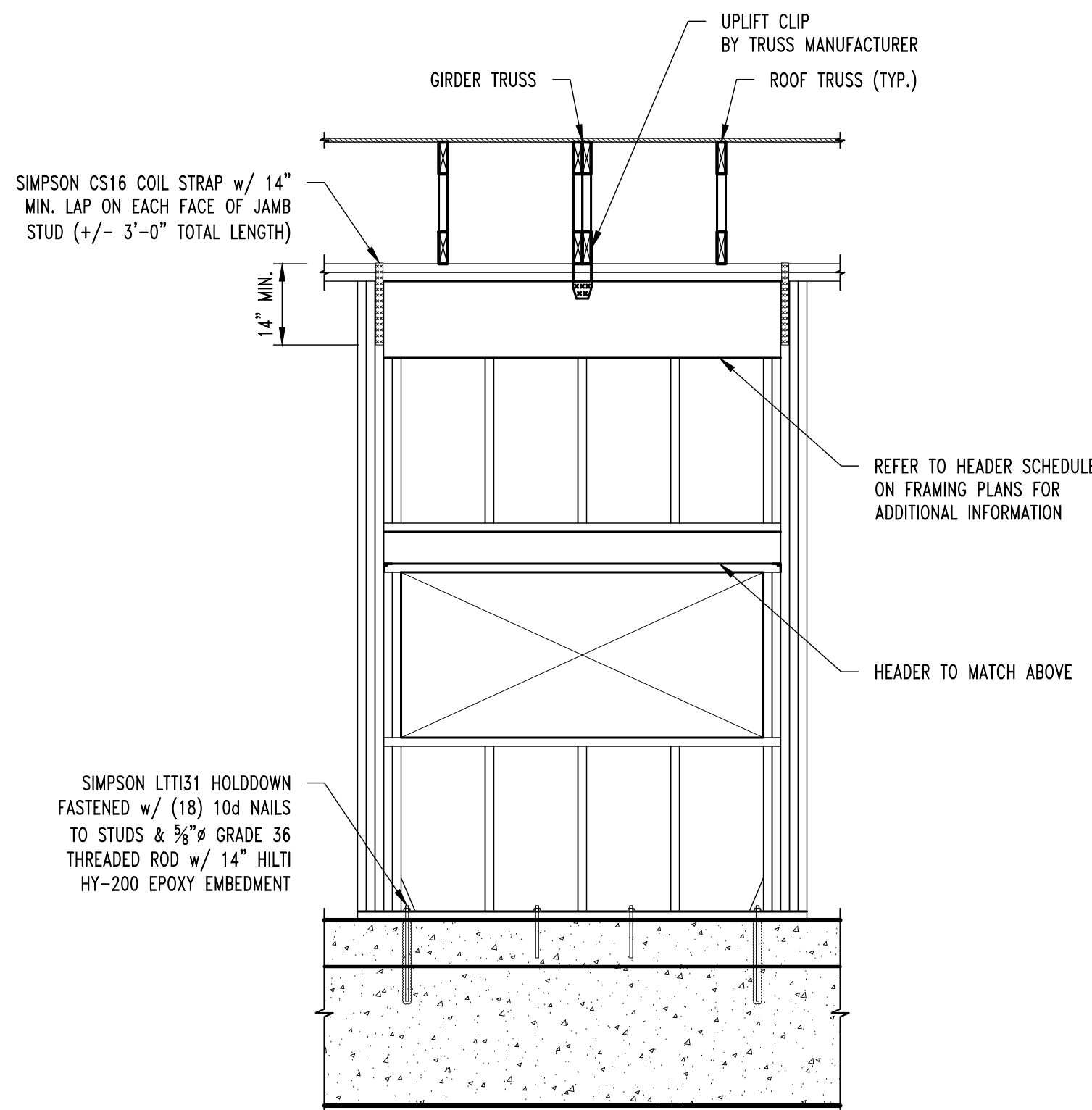
S23
GS300

ROOF FRAMING SECTION
SCALE: 1 1/2" = 1'-0"

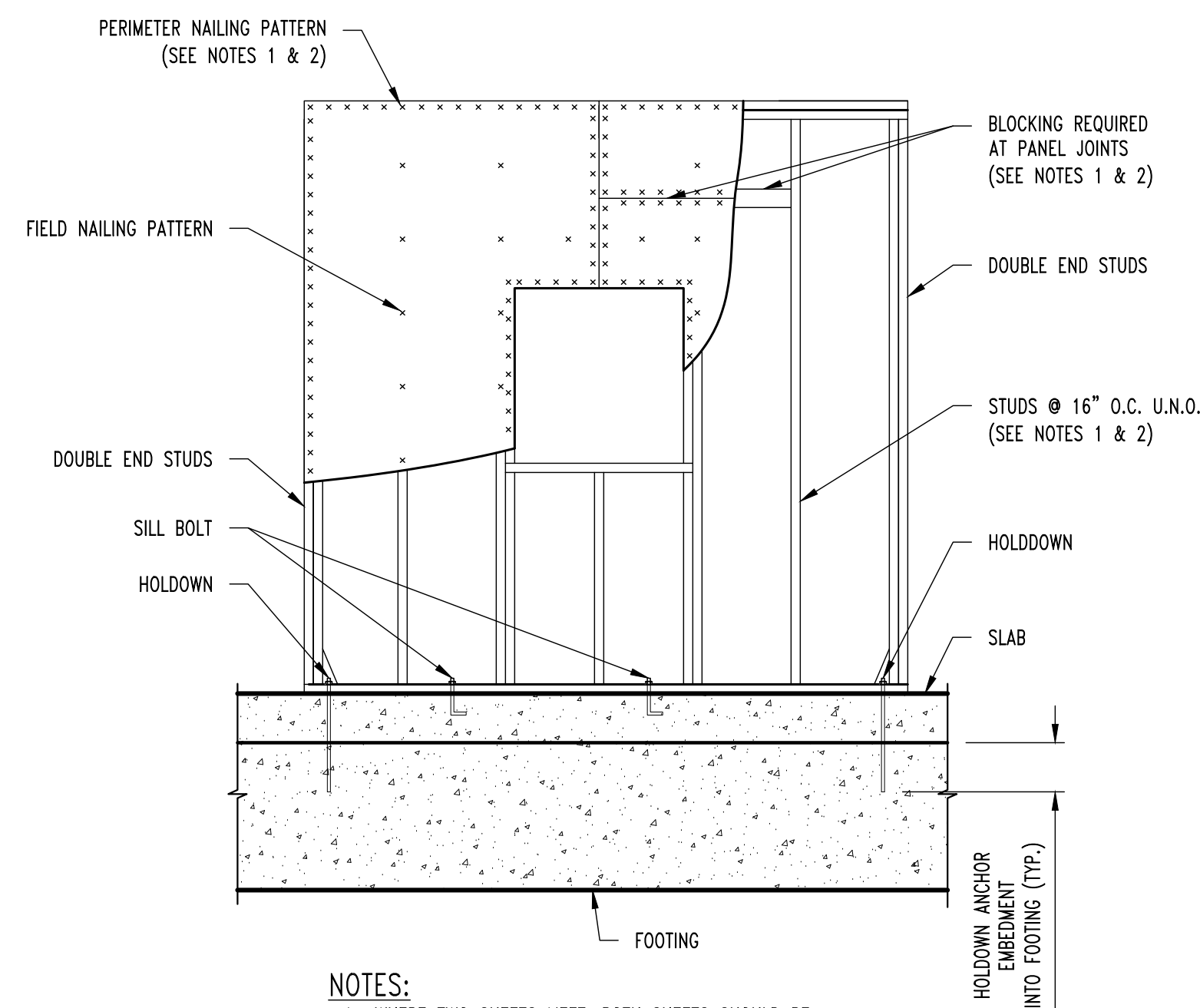


A
GS310

TYP. TRUSS BLOCKING SECTION
SCALE: 1 1/2" = 1'-0"



TYP. GIRDER TO HEADER DETAIL



- NOTES:**
- WHERE TWO SHEETS MEET, BOTH SHEETS SHOULD BE NAILED TO THE SAME FRAMING MEMBER.
 - WHEN SHEATHING NAILS ARE SPACED AT 2" O.C. FOR 8d NAILS OR 3" O.C. FOR 10d NAILS, 3x OR DOUBLE 2x FRAMING MEMBERS ARE REQUIRED WHERE SHEETS MEET. FACE NAIL DOUBLE 2x MEMBERS TOGETHER w/ 16d NAILS @ 2 1/2" O.C. STAGGERED EACH FACE OF STUD.
 - SEE WALL SECTIONS FOR ADDITIONAL INFORMATION.

TYP. SHEAR WALL DETAIL

REVISIONS:	
No.	Date
ISSUE SET	04/15/2024

THIS SHEET HAS BEEN SIGNED,
SEALED AND DATED ELECTRONICALLY.



STRUCTURAL ENGINEER
CROCKETT
ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Suite 1
Columbia, Missouri 65203
(573) 447-0592
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#000010101

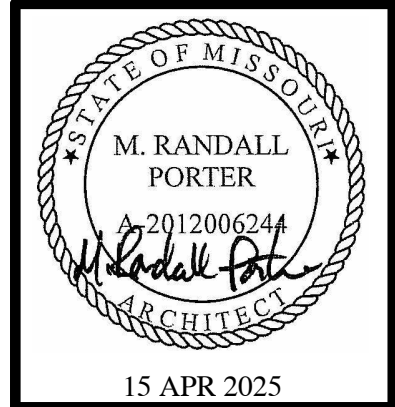
CLIENT:
**INTRINSIC
DEVELOPMENT**
3629 ENDOVER AVE.
COLUMBIA, MISSOURI

Aura Village Garage Building Type "A"
Lee's Summit, Jackson County, Missouri

DRAWING INCLUDES:

ROOF FRAMING
DETAILS

DESIGNED: JWW
DRAWN: SEH
PROJECT NO.: 230286
SHEET:
GS310



15 APR 2025
M. RANDALL PORTER
ARCHITECT LICENSE#
A-2012006244

ALURA APARTMENTS - VILLAGE AT DISCOVERY PARK
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



WALLACE ARCHITECTS, LLC
MISSOURI STATE CERTIFICATE
OF AUTHORITY: 2003019614

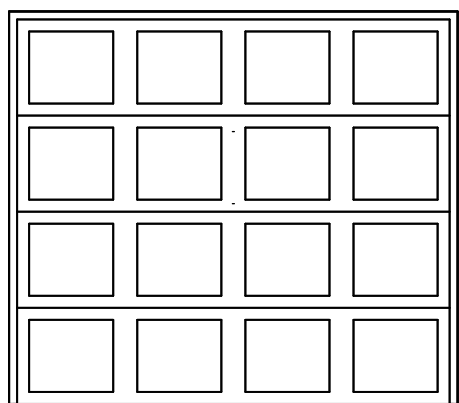
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1ST ISSUE
15 APR 2025

ISSUE/REVISIONS	
NO.	DESCRIPTION



JOB NO.
4938

DOOR SCHEDULE					
TYPE MARK	SIZE	ELEV.	FRAME MATL.	PANEL MATL.	COMMENTS
1	8'-0" x 8'-0" x 1 3/4"	A	WOOD	STEEL	DECORATIVE, MULTI-PANEL O.H. DOOR.



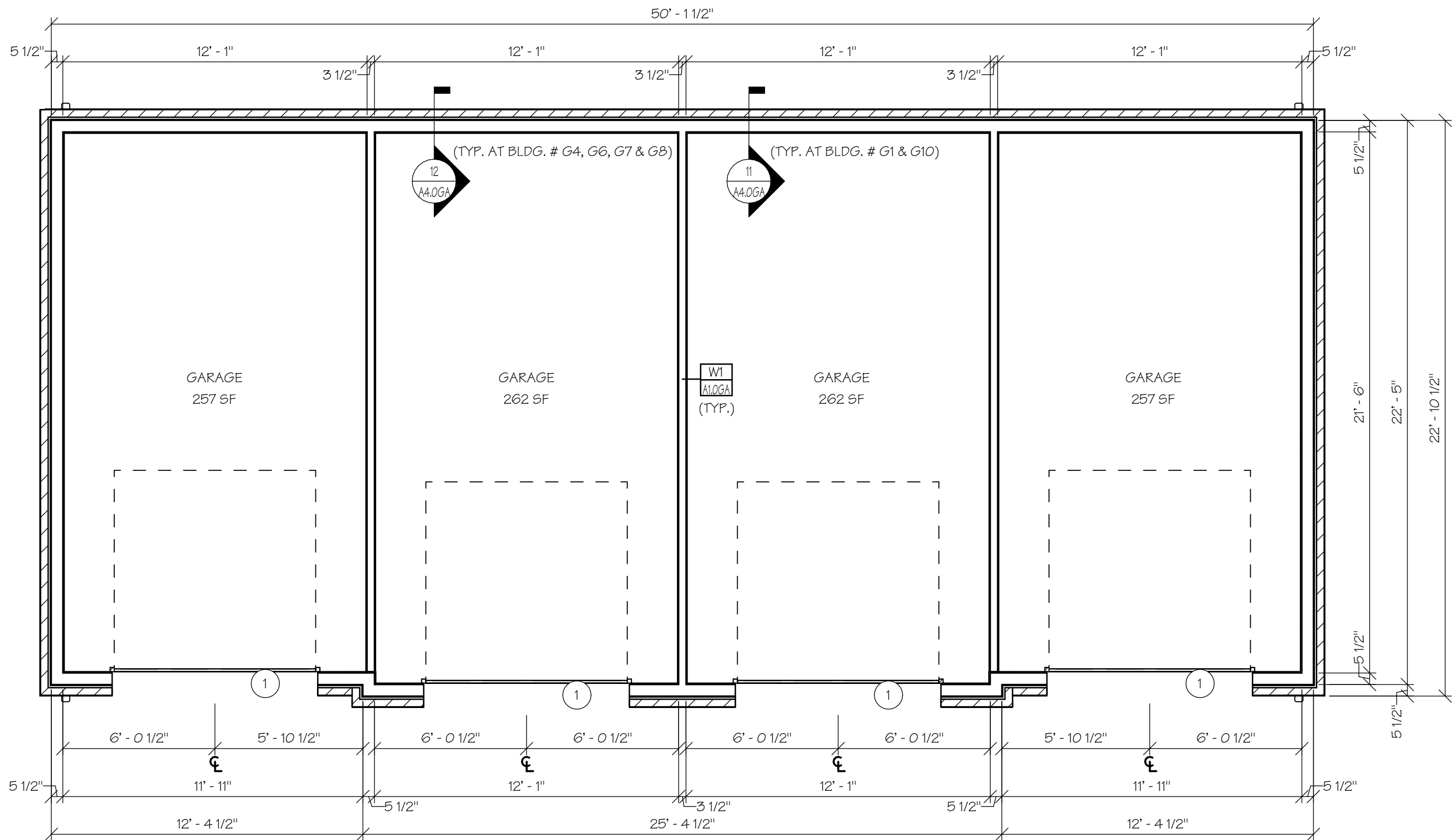
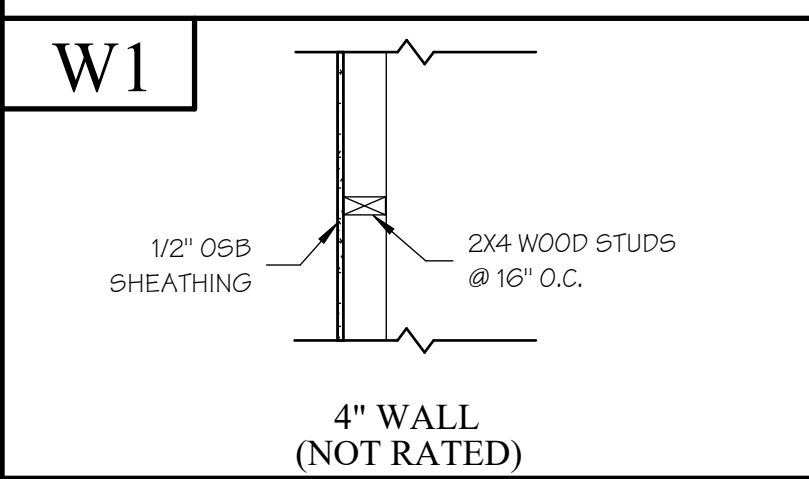
A

GENERAL NOTES	
1)	DIMENSIONS SHOWN ARE FACE OF STUD TO FACE OF STUD.
2)	SEAL CONCRETE FLOOR TO REDUCE MOISTURE PENETRATION.

FINISH SCHEDULE				
ROOM NAME	FLOOR	BASE	WALL	CEILING
GARAGE	SEALED CONCRETE	NONE OR NO ADDITIONAL FINISH	PAINTED GYP BD.	PAINTED GYP BD.

SPECIAL INSTRUCTION:
STRUCTURAL DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE OVER ANY DRAWING, DETAIL OR NOTE SHOWN ON THIS SHEET.
CONTRACTORS, SUBCONTRACTORS, AND SUPPLIERS MUST REFERENCE STRUCTURAL DRAWINGS AND/ OR SPECIFICATIONS BEFORE CONSTRUCTING, OR SUPPLYING ANY LOAD-BEARING, OR LOAD-RESISTING ELEMENT SHOWN ON THIS SHEET.

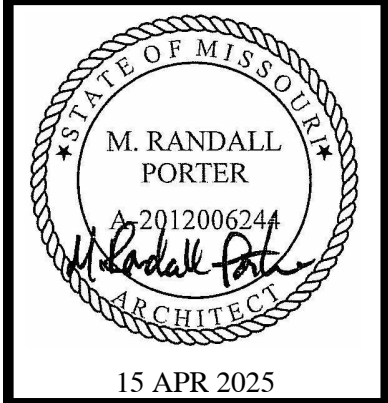
WALL TYPE SCHEDULE



1 AUGA GARAGE "A" BUILDING PLAN/FINISH PLAN
SCALE: 1/4" = 1'-0"
(GARAGE BLDGS. G1, G4, G6, G7, G8 & G10 - SEE CIVIL)



ISSUE SET



M. RANDALL PORTER
ARCHITECT LICENSE#
A-2012006244

ALURA APARTMENTS - VILLAGE AT DISCOVERY PARK
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

Wallace
ARCHITECTS L.L.C.
Columbia, MO
P 573-258-7200

WALLACE ARCHITECTS, LLC
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15 APR 2025	ISSUE SET

A2.0GA

JOB NO.
4938

SHEET NO.

4/23/2025 7:57:40 AM

A
B
C
D

A
B
C
D

LEGEND

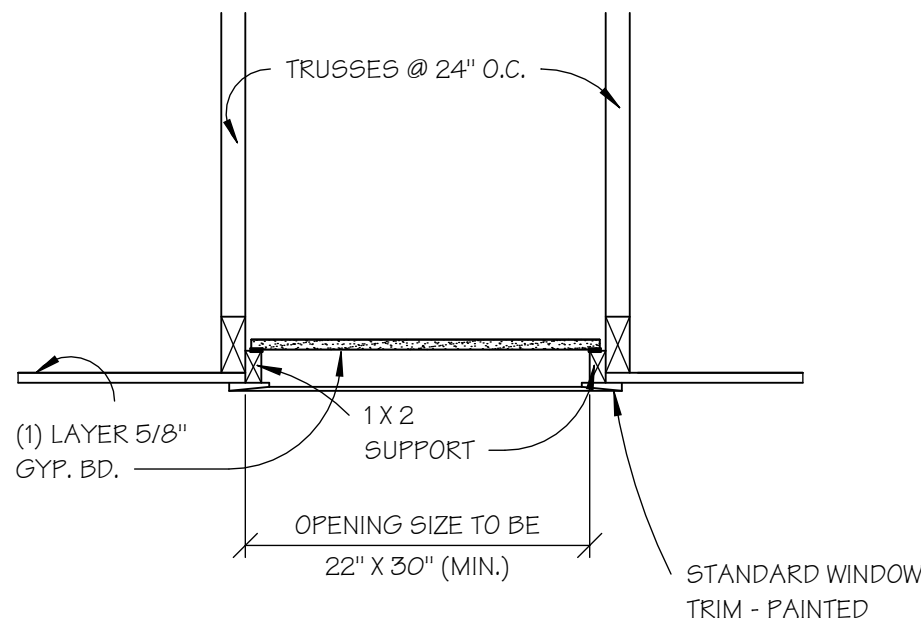
-  DOWNSPOUT LOCATIONS
-  POD VENT

ATTIC COMPARTMENT VENTILATION

NAME	TYPE	AREA	TOTAL REQ'D VENT. (SQ. IN.)	SOFFIT VENT (SQ. IN.)	ROOF VENT (SQ. IN.)
GARAGE "A"	ATTIC SPACE	1135 SF	545	272	272

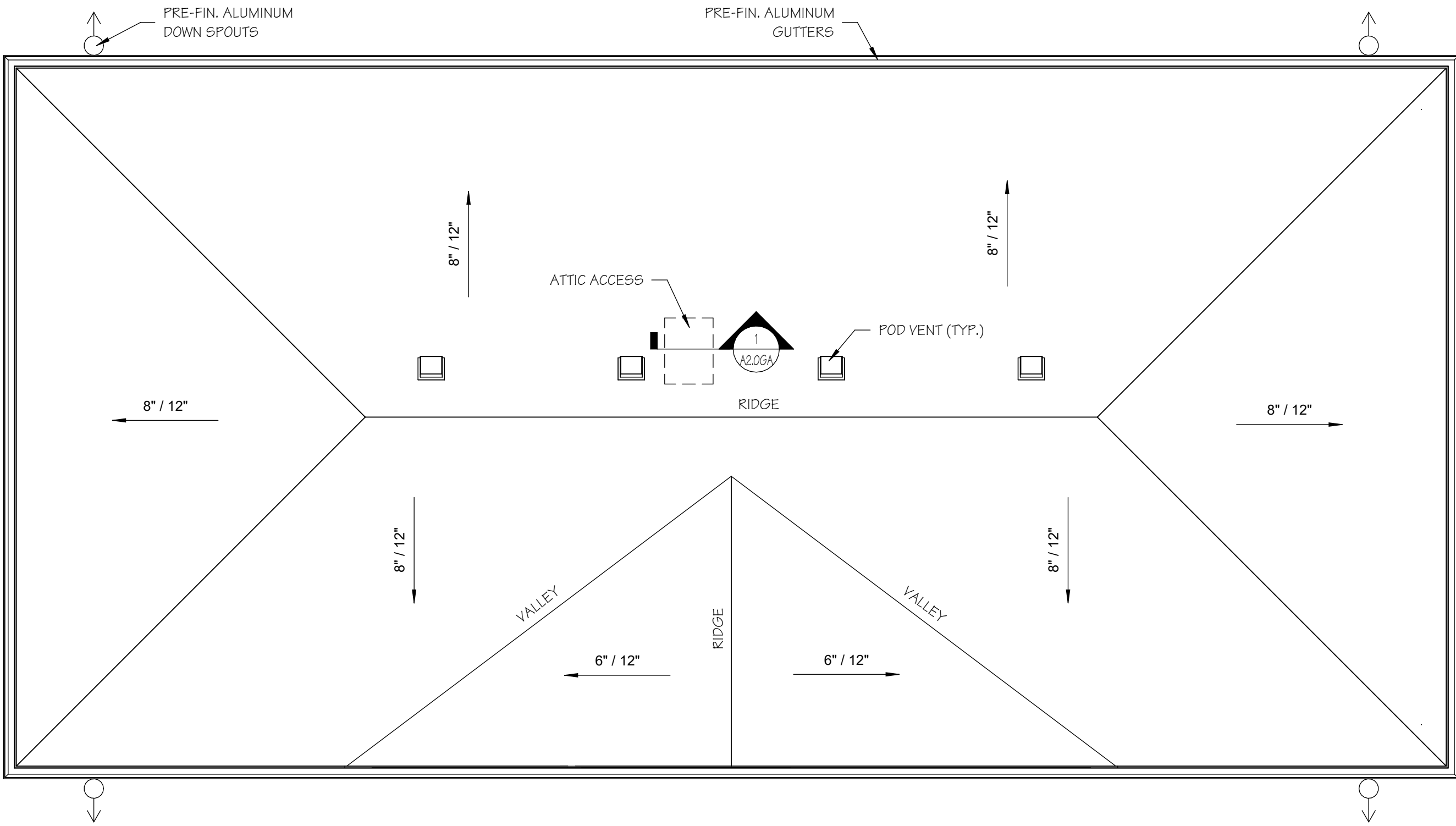
GENERAL ATTIC VENTILATION NOTES

- TOTAL FREE AREA SHALL EQUAL 1/300 OF ATTIC AREAS W/50% OF VENT AREA AT ROOF AND 50% AT SOFFITS.
- SPECIFIED VENTILATION POD QUANTITY BASED ON 80 SQ. IN FREE AREA PER POD. ADJUST QUANTITY AS REQUIRED BASED ON FREE AREA OF SPECIFIC VENTILATION POD USED.



ATTIC ACCESS

SCALE: 1" = 1'-0"



GARAGE "A" ROOF PLAN

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

(GARAGE BLDGS. G1, G4, G6, G7, G8 & G10 - SEE CIVIL)

-  GAR. G1
-  GAR. G4
-  GAR. G5
-  GAR. G7
-  GAR. G8
-  GAR. G10

ISSUE SET



ALURA APARTMENTS - VILLAGE AT DISCOVERY PARK
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

Wallace
ARCHITECTS L.L.C.

Columbia, MO
P 573-256-7200

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MISSOURI STATE CERTIFICATE
OF AUTHORITY: 2003019614

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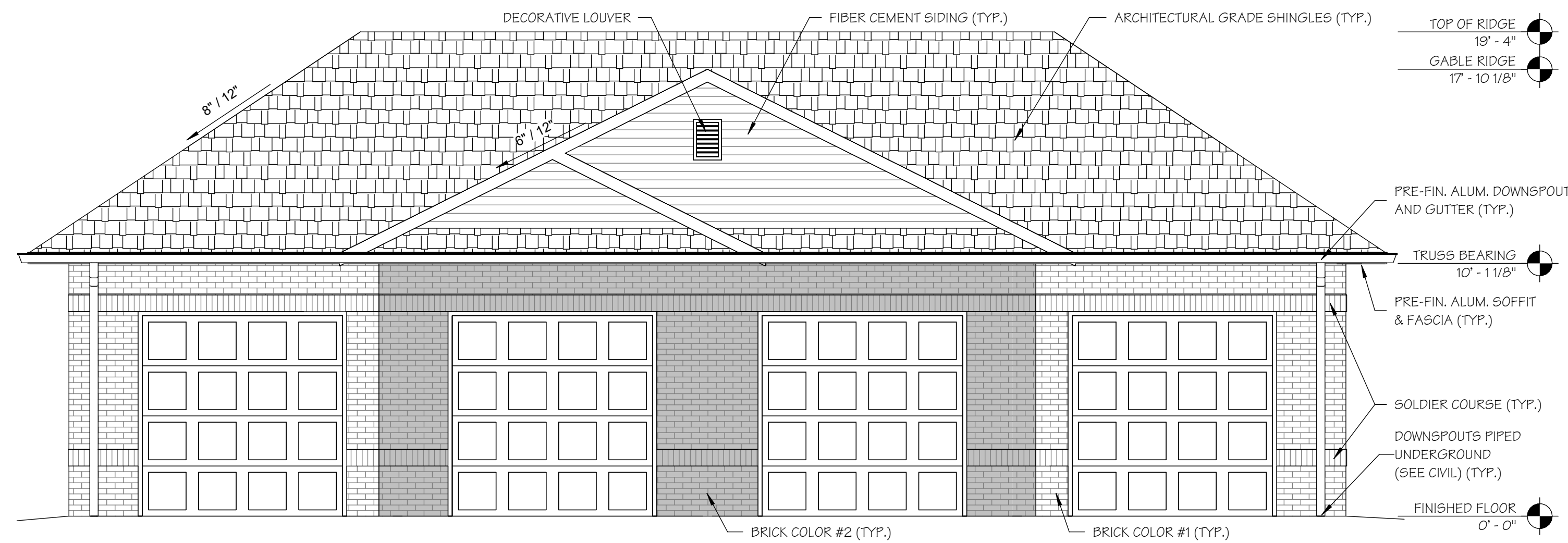
5 APR 2025	ISSUE SET

A3.0GA

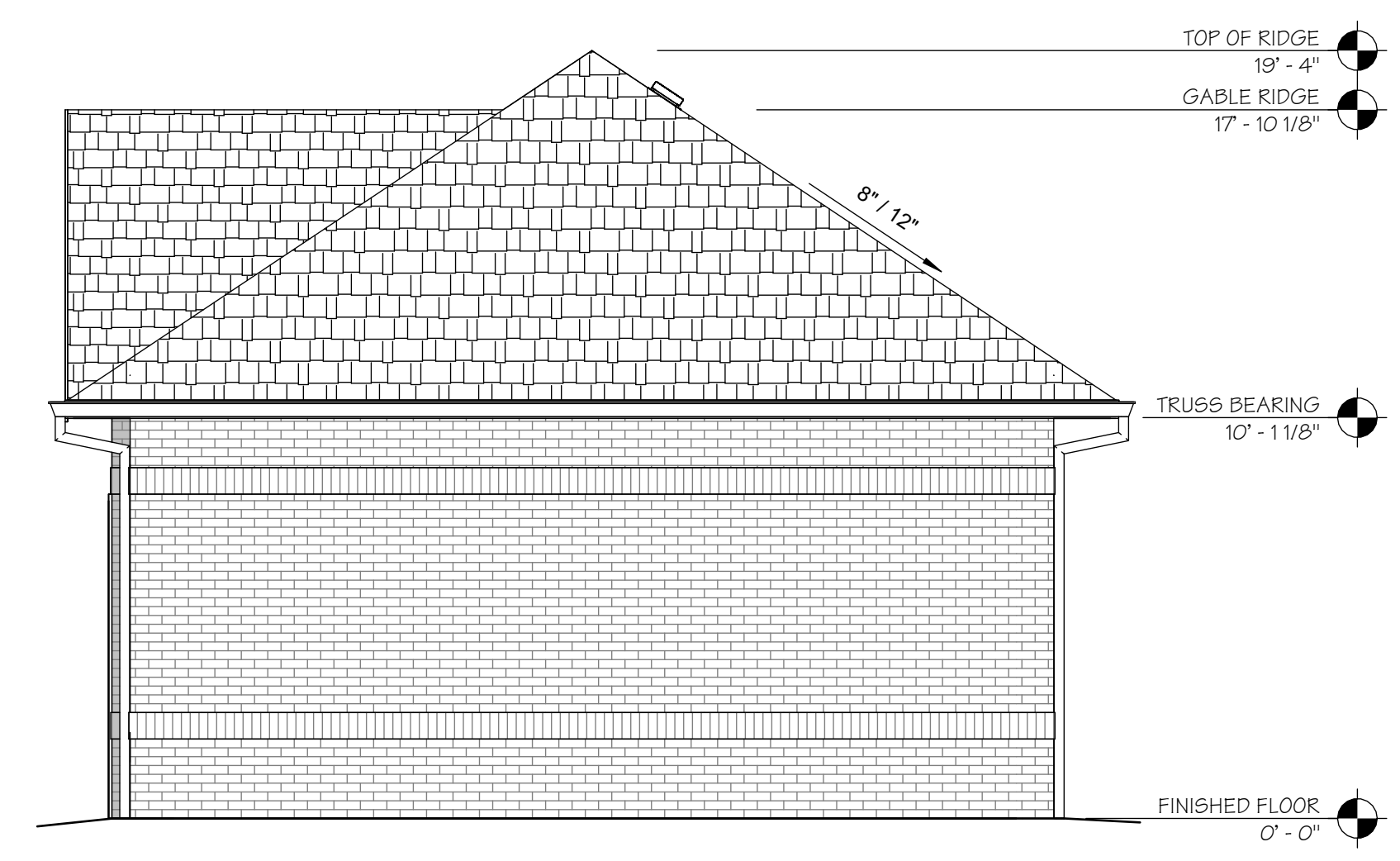
JOB NO.
4938

BUILDING NOTES	
1)	BRICK CONTROL JOINTS EVERY 20'-0" MAX.
2)	CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

NOTE: ELEVATIONS SHOWN ARE FOR GARAGE BUILDINGS G1 & G10.
ELEVATIONS FOR GARAGE BUILDINGS G4, G6, G7 & G8 ARE SIMILAR.



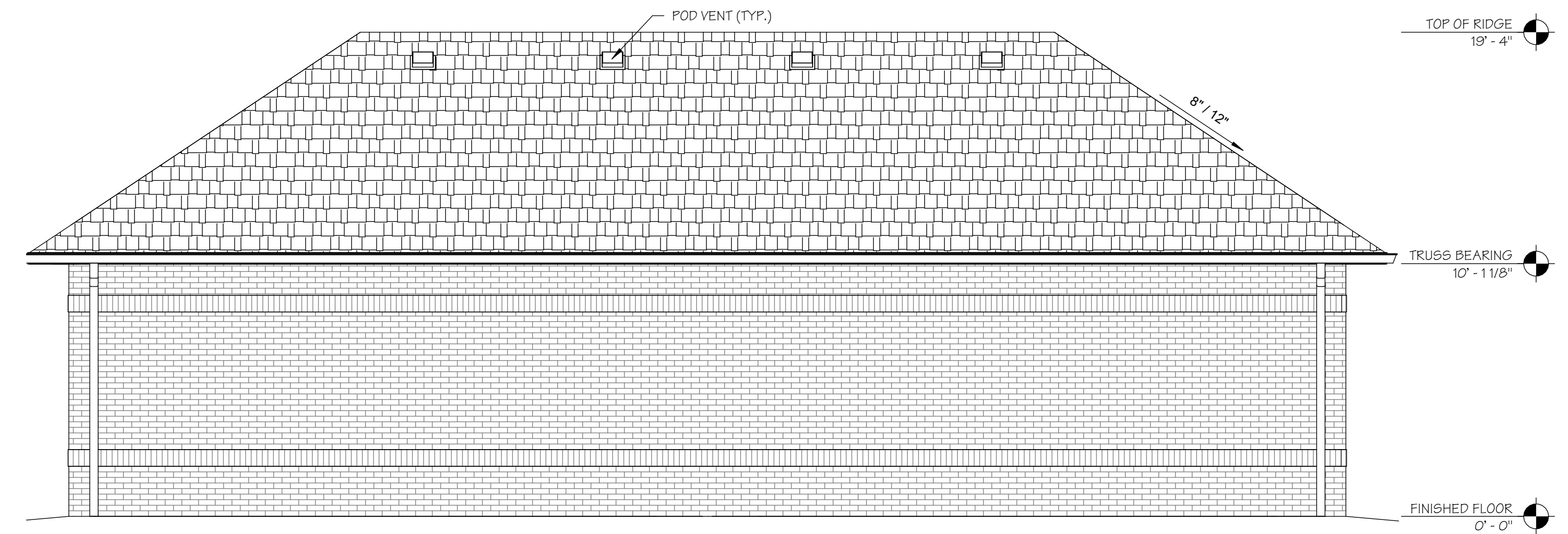
1 GARAGE "A" FRONT ELEVATION
A3.05A SCALE: 1/4" = 1'-0"



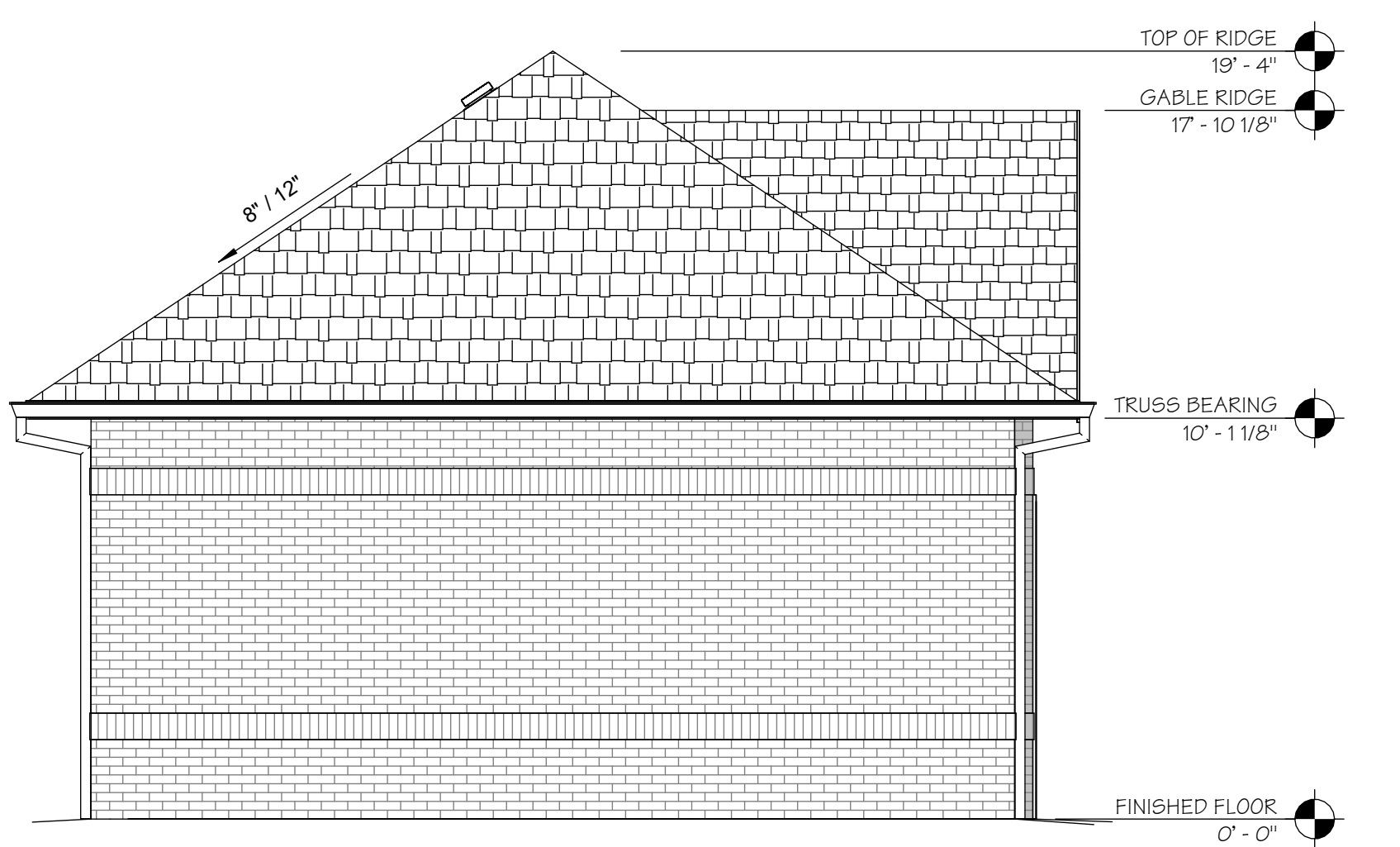
2
A3.06A

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

GARAGE "A" RIGHT ELEVATION

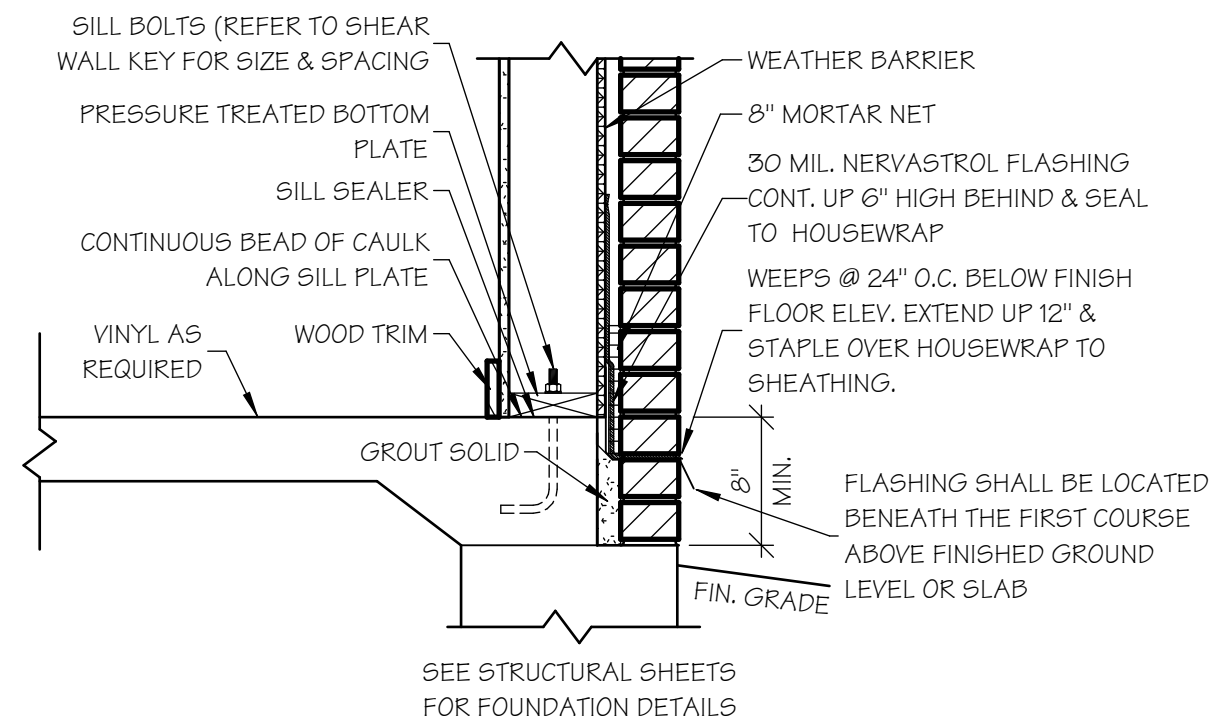


3 GARAGE "A" REAR ELEVATION
K30GA SCALE: 1/4" = 1'-0"



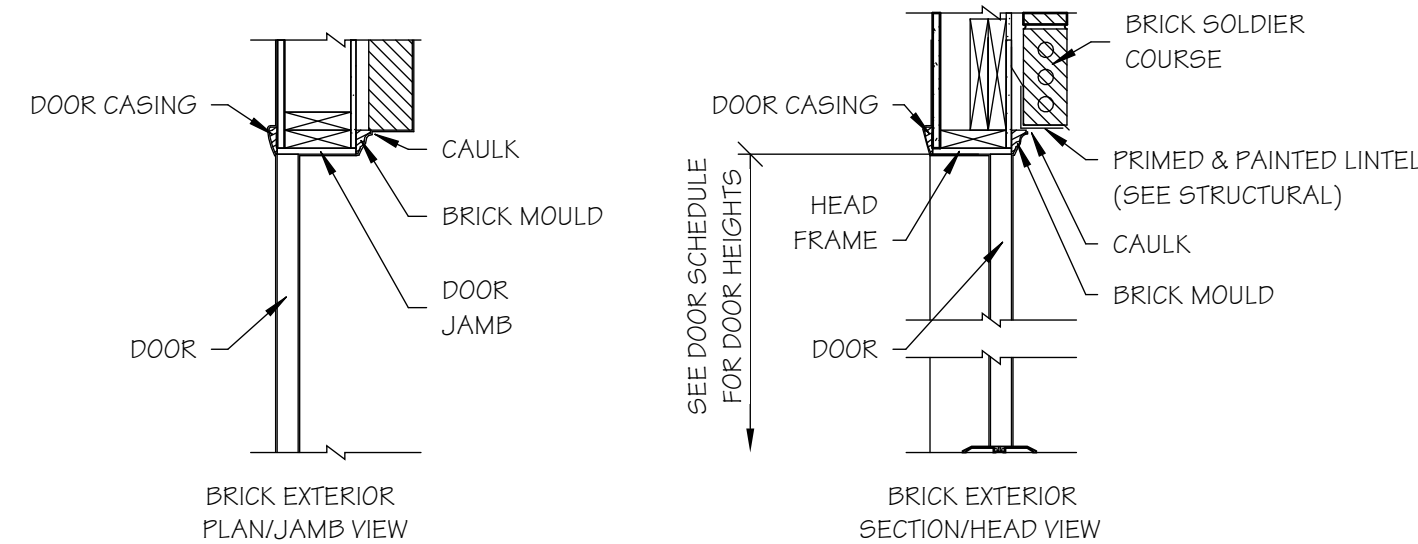
4 GARAGE "A" LEFT ELEVATION
SCALE: 1/4" = 1'-0"

ISSUE SET



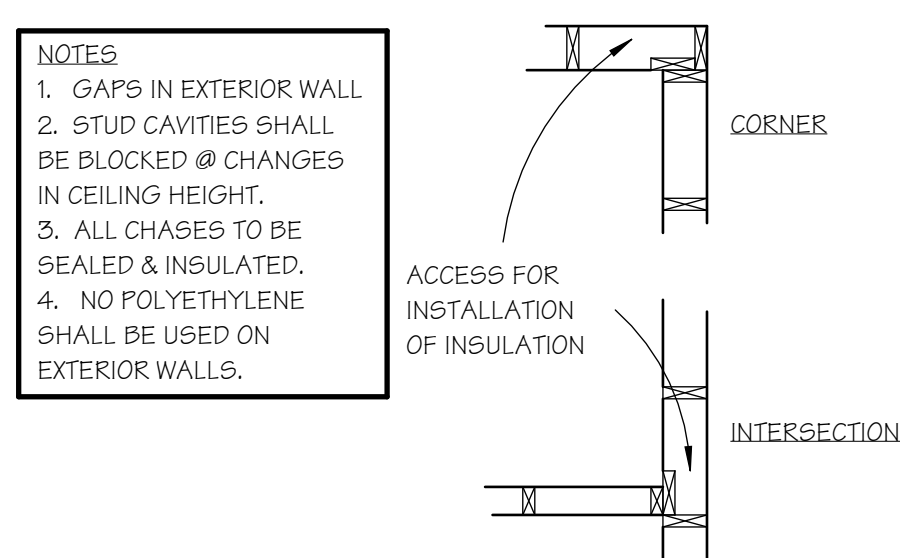
FOUNDATION
FLASHING DETAIL

1
A4.0GA SCALE: 1" = 1'-0"



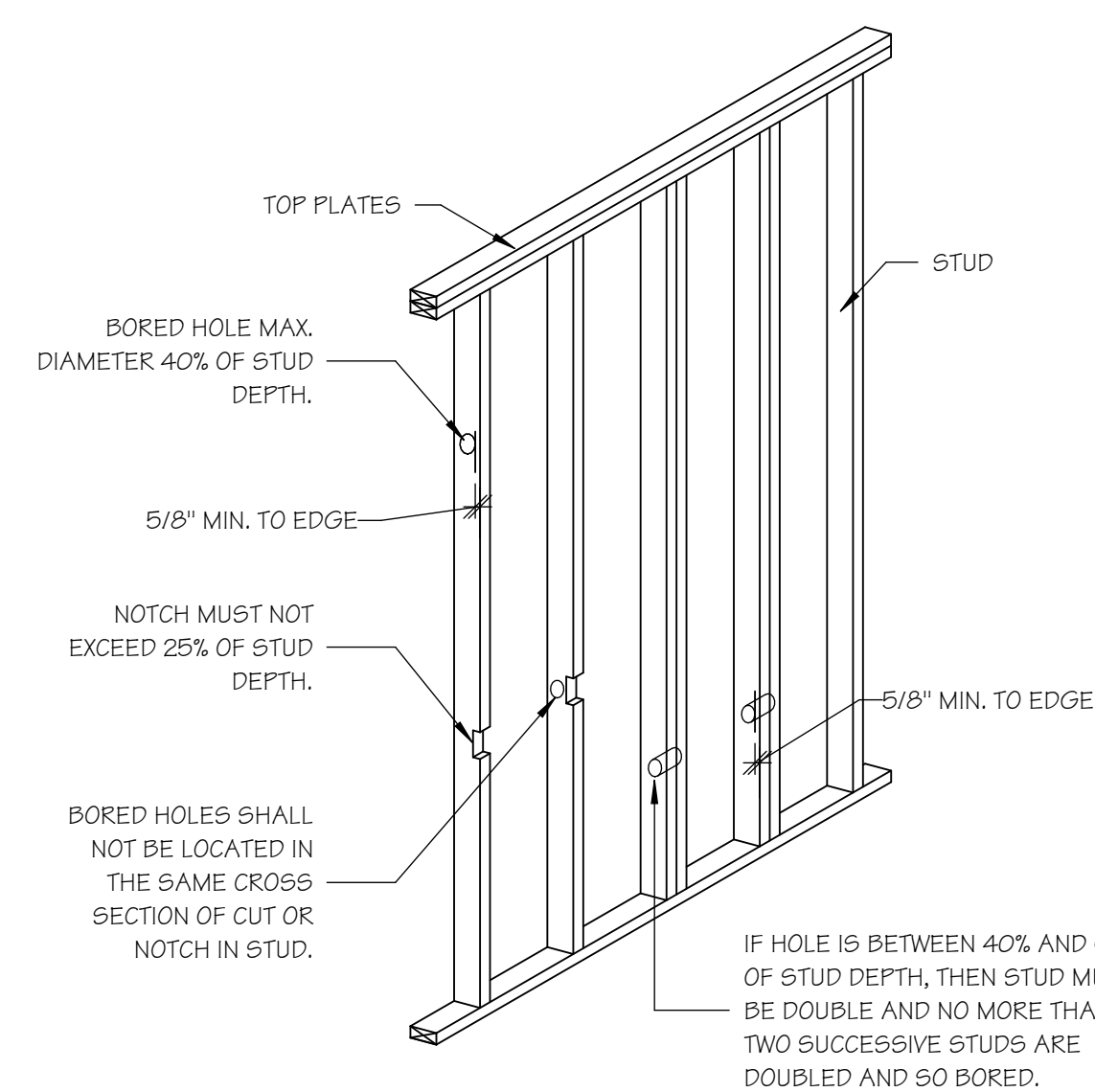
WALL SECTIONS AND
DETAILS @ EXTERIOR DOORS

2
A4.0GA SCALE: 3/4" = 1'-0"



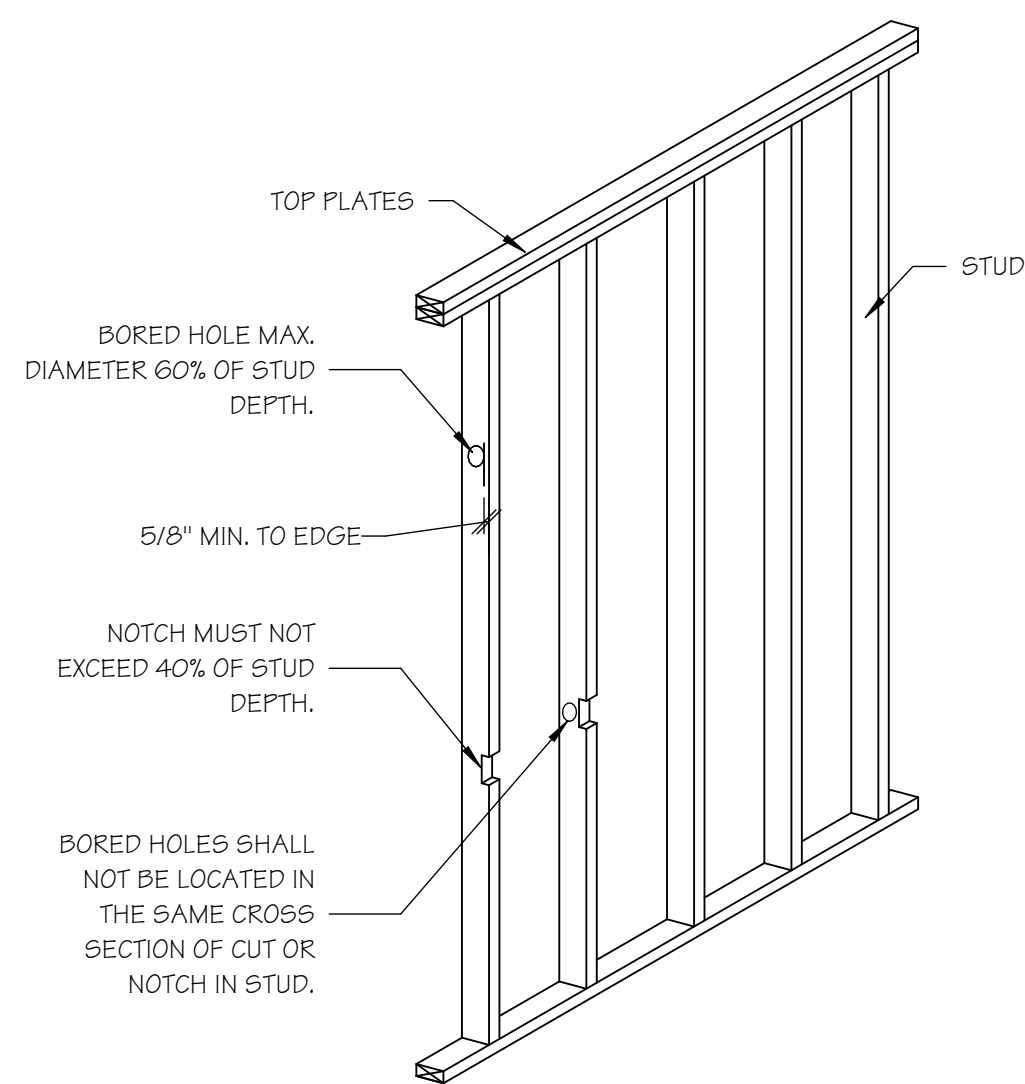
EXT. WALL / ADVANCED
FRAMING DETAIL

3
A4.0GA SCALE: 1/2" = 1'-0"



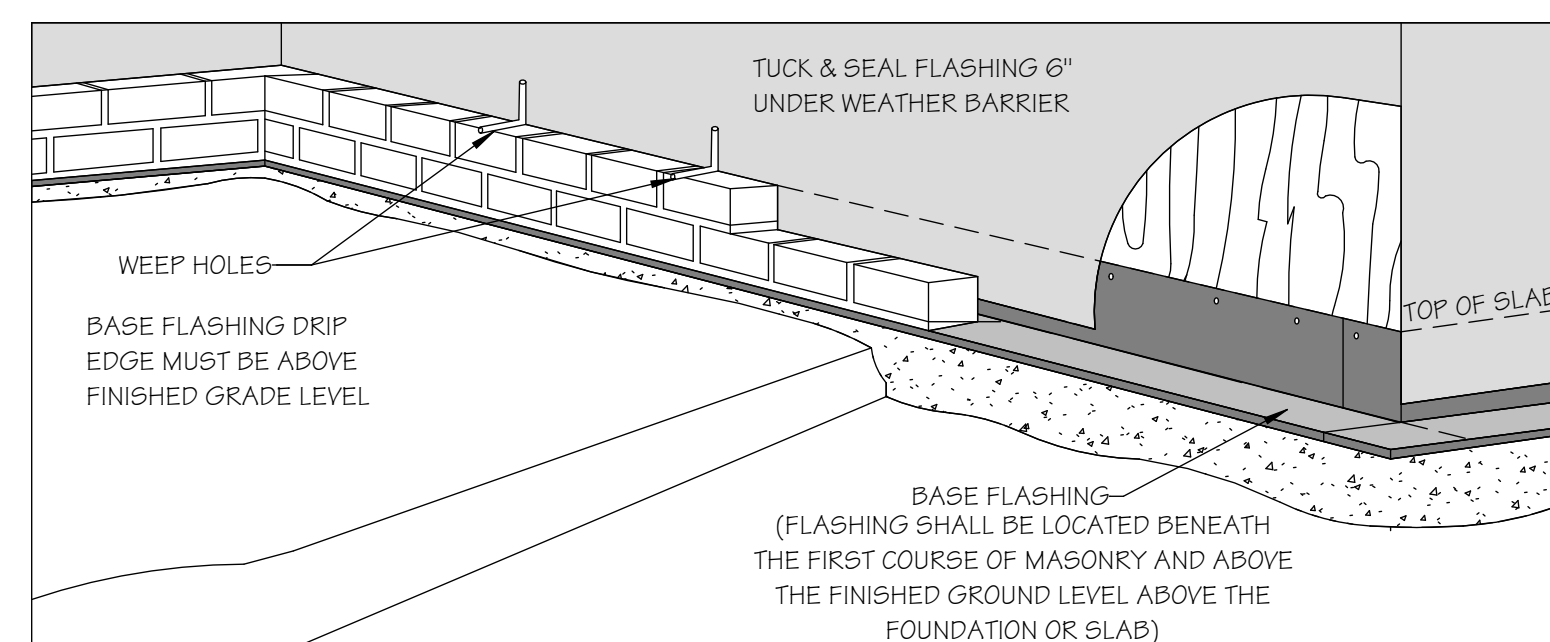
LOAD BEARING WALL NOTCHING
& BORING HOLE DETAILS

4
A4.0GA SCALE: 1/2" = 1'-0"



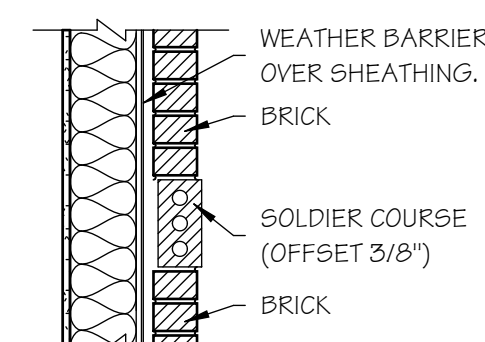
NON-LOAD BEARING WALL
NOTCHING & BORING HOLE DETAILS

5
A4.0GA SCALE: 1/2" = 1'-0"



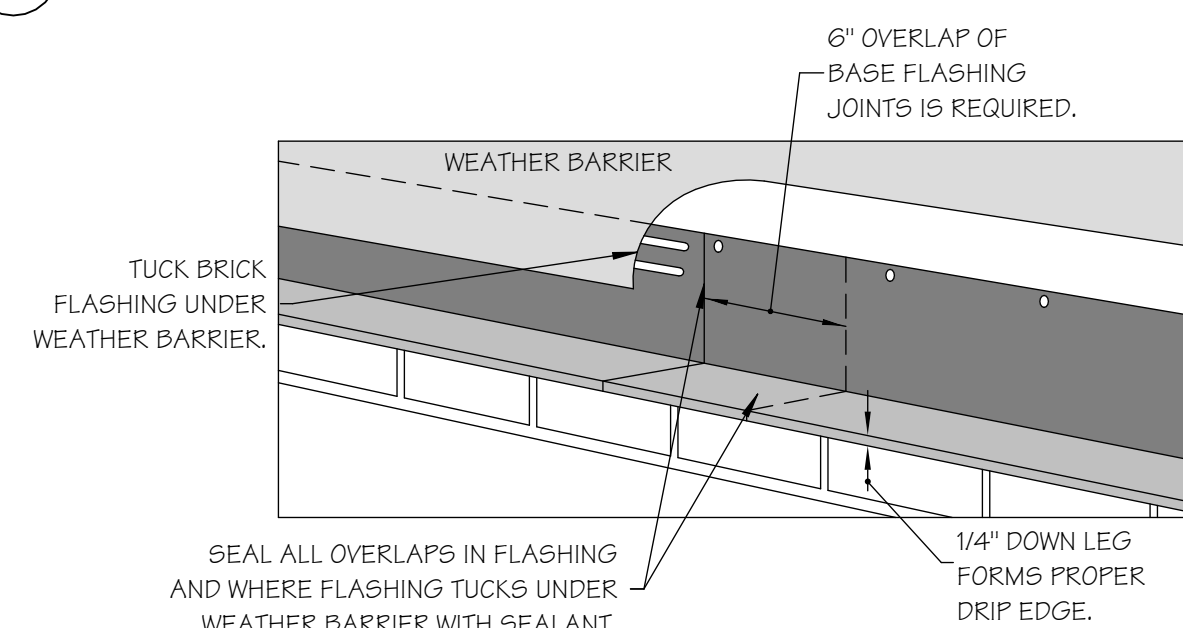
BASE FLASHING @ BRICK

6
A4.0GA SCALE: 3/4" = 1'-0"



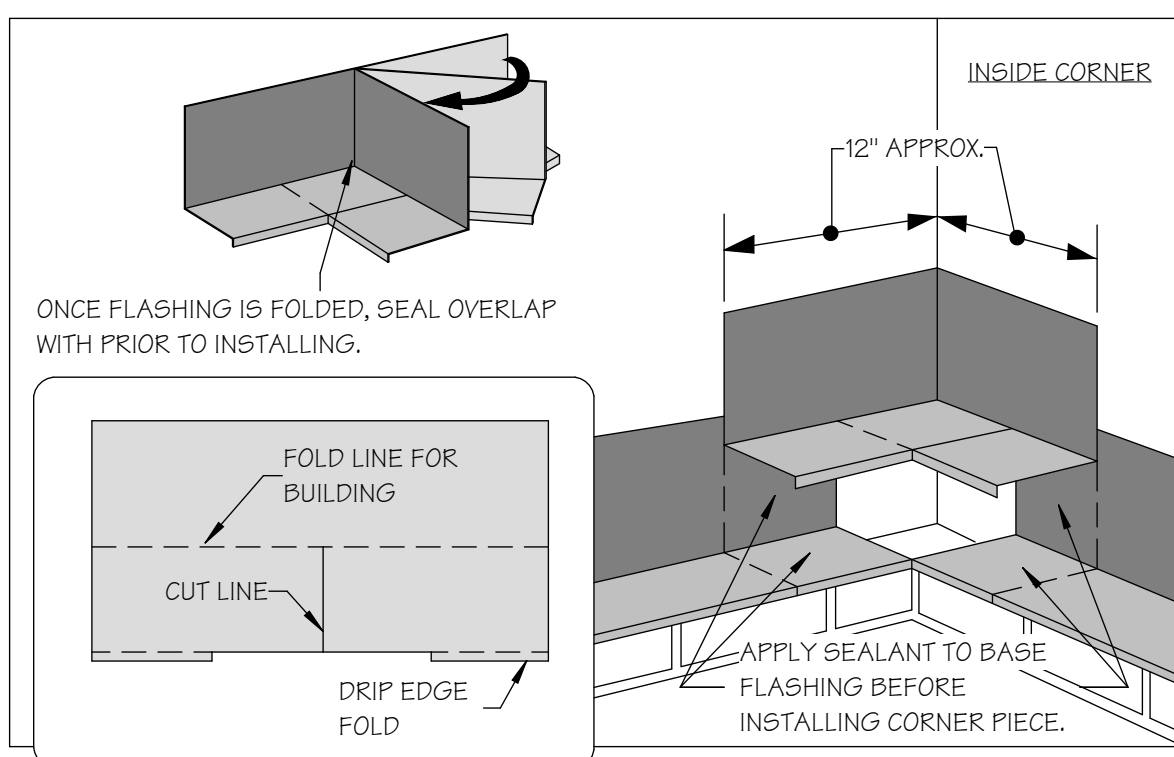
SOLDIER COURSE DETAIL

7
A4.0GA SCALE: 3/4" = 1'-0"



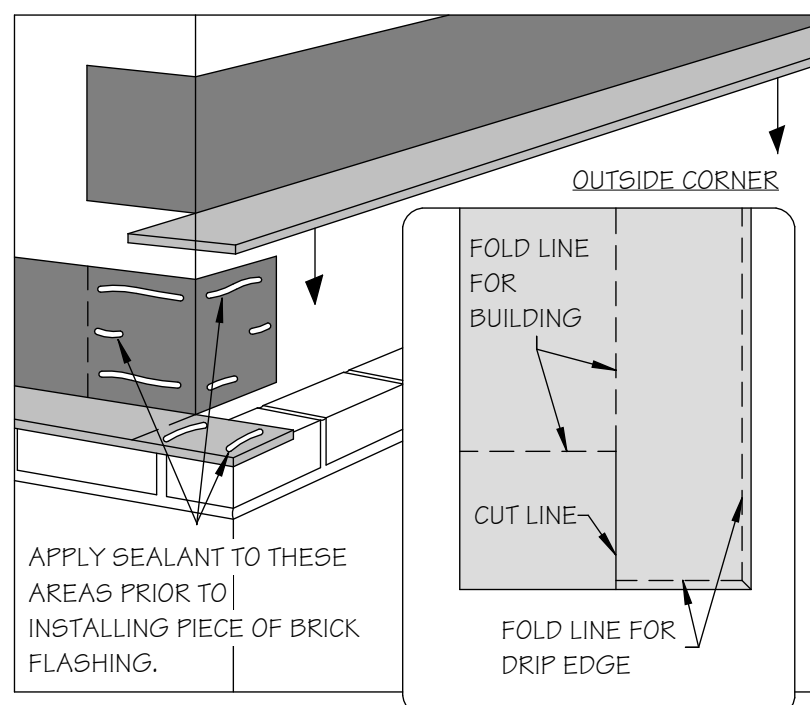
JOINT FLASHING DETAIL @ BRICK

8
A4.0GA SCALE: 3/4" = 1'-0"



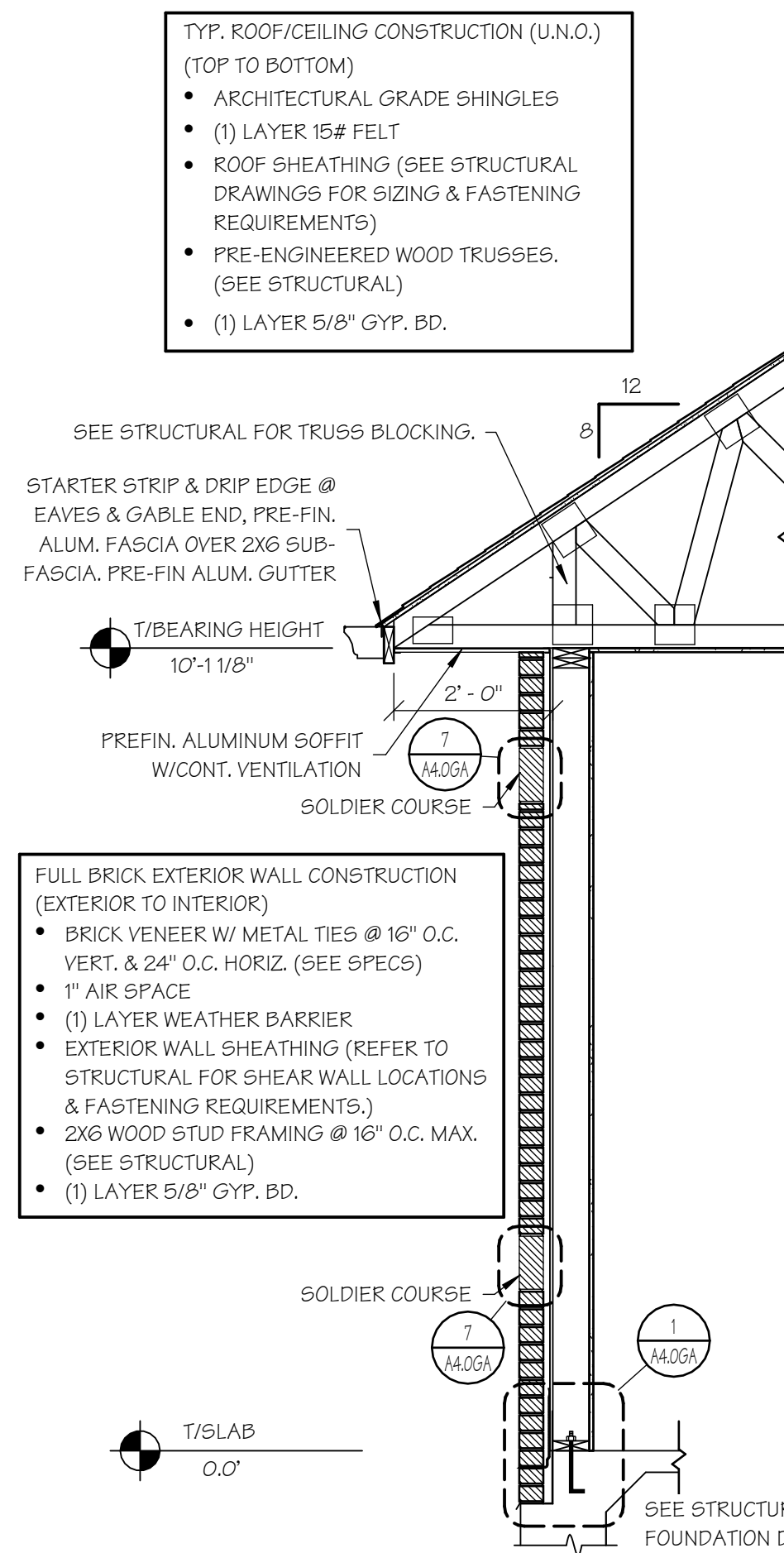
INSIDE CORNER FLASHING
DETAIL @ BRICK

9
A4.0GA SCALE: 3/4" = 1'-0"



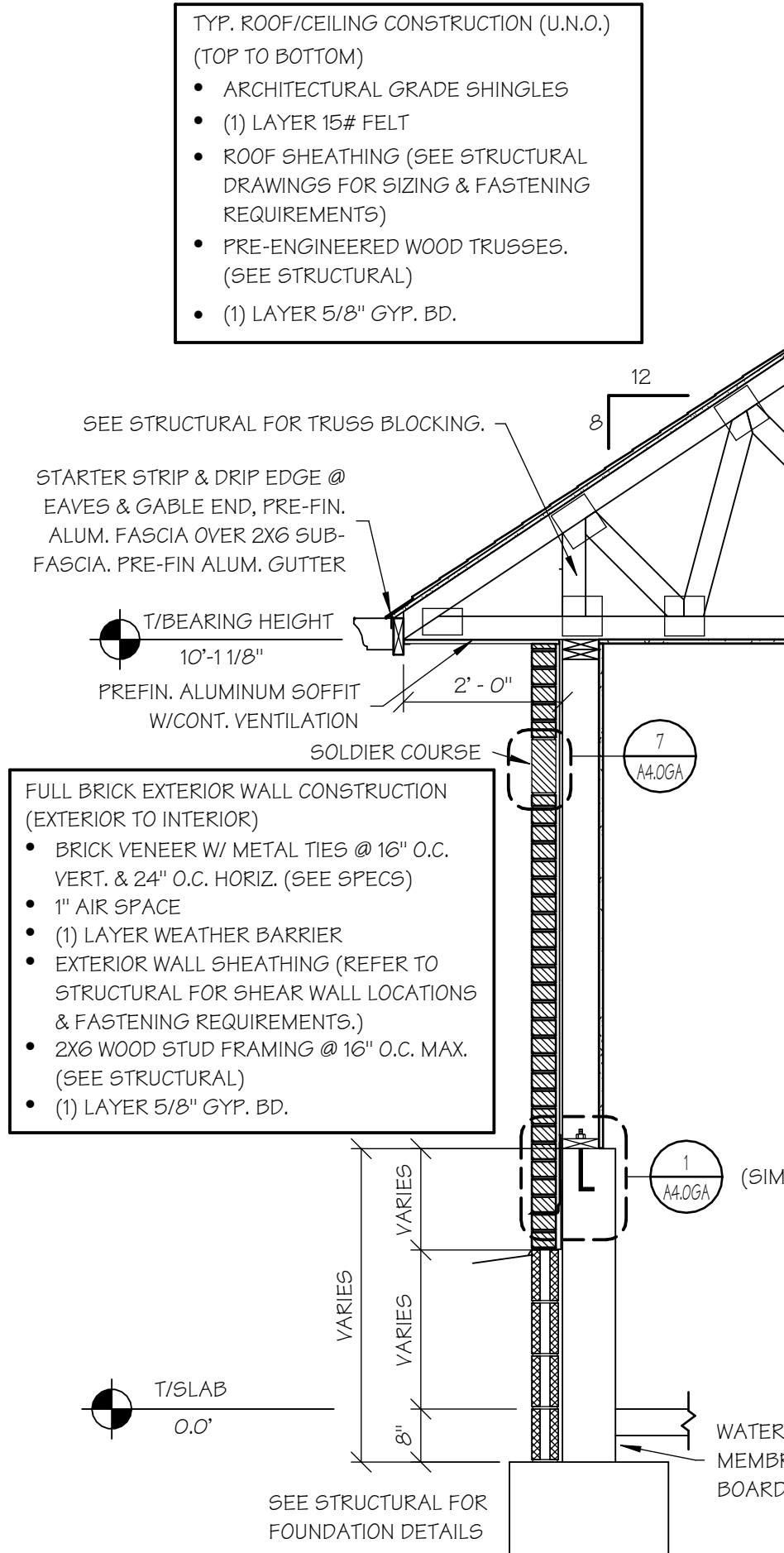
OUTSIDE CORNER FLASHING
DETAIL @ BRICK

10
A4.0GA SCALE: 3/4" = 1'-0"



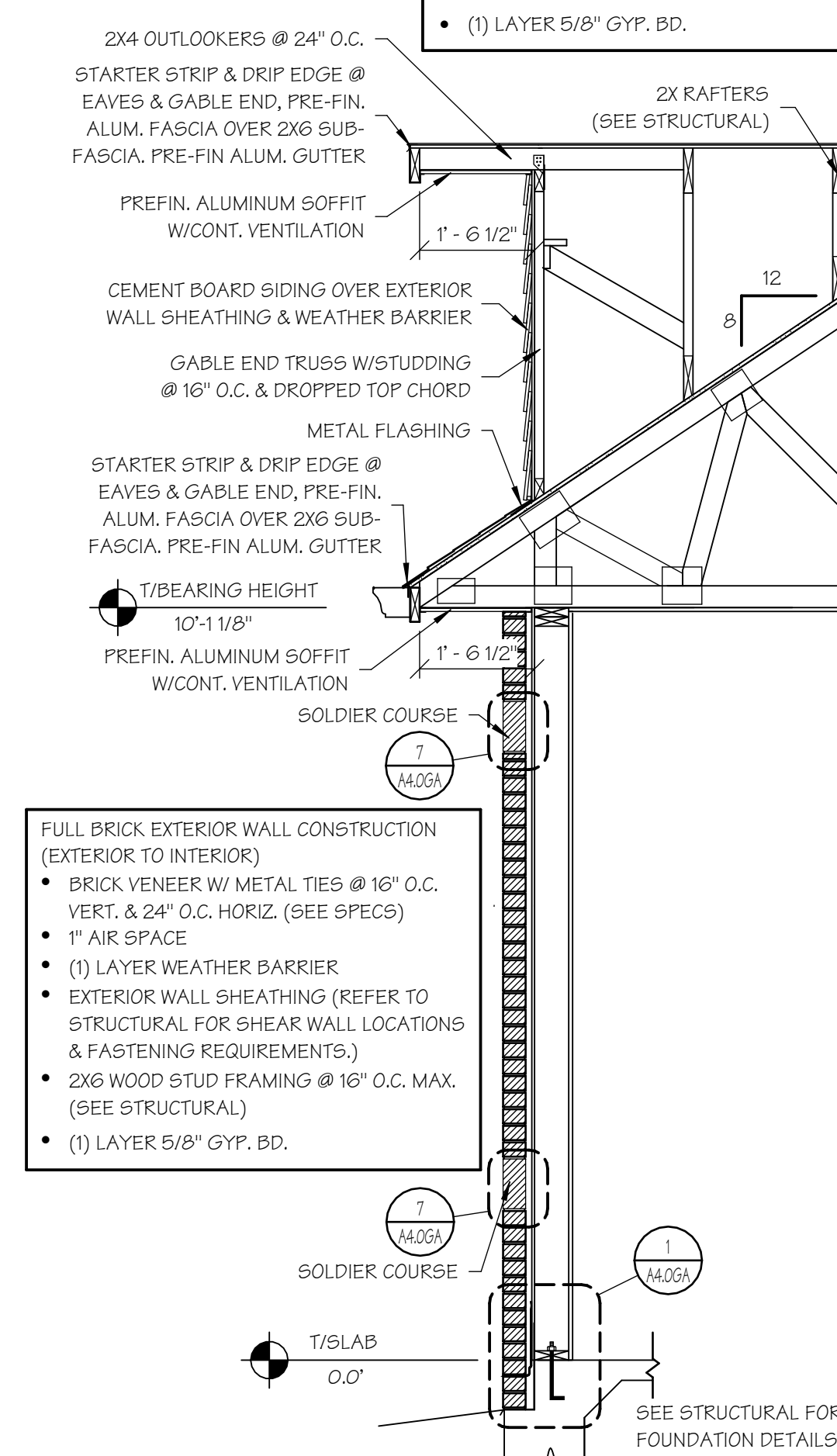
WALL SECTION @ EAVE 1

11
A4.0GA SCALE: 1/2" = 1'-0"



WALL SECTION @ EAVE 2

12
A4.0GA SCALE: 1/2" = 1'-0"



WALL SECTION @ RAKE

13
A4.0GA SCALE: 1/2" = 1'-0"



J-SQUARED
ENGINEERING

ELECTRICAL DESIGN DRAWINGS FOR:

The Village at Discovery Park Alura Apartments Garage #6

Northeast Douglas Street
Lee's Summit, Jackson County, Missouri

GENERAL MEP SPECIFICATIONS

- GENERAL**
 - ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES. IT IS THE RESPONSIBILITY OF CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THEIR TRADE, REGARDLESS OF WHERE WORK IS DEPICTED IN PROJECT DRAWINGS OR SPECIFICATIONS.
 - LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND SCHEMATIC IN NATURE. ALL SYSTEMS WILL NEED TO BE FIELD-COORDINATED. CONTRACTOR SHALL INCLUDE THIS COORDINATION IN THEIR SCOPE AND INCLUDE ALL COSTS OF MODIFYING LAYOUT AS REQUIRED IN THEIR BID. PLANS ARE NOT INTENDED TO BE SHOP DRAWINGS FROM WHICH MATERIALS CAN BE ORDERED, FABRICATED, OR INSTALLED WITHOUT ADDITIONAL FIELD MEASUREMENTS AND COORDINATION.
 - NOT ALL SPECIFIC PIECES AND COMPONENTS OF EACH SYSTEM ARE DETAILED OR OUTLINED ON PLANS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS. CONTRACTOR IS TO PROVIDE AND INCLUDE ALL EQUIPMENT AND MATERIAL NEEDED TO COMPLETE WORK ASSOCIATED WITH THEIR BID UNLESS ANY ITEMS ARE SPECIFICALLY NOTED ON PLANS AS PROVIDED BY OTHERS. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
 - WHERE CONFLICTS EXIST BETWEEN MEP PLANS AND CIVIL, ARCHITECTURAL, OR STRUCTURAL PLANS, NOTIFY MEP ENGINEER OF DISCREPANCIES FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK THAT MAY CONTRADICT INFORMATION ELSEWHERE IN THE PROJECT PLANS.
 - THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSIONS, ARCHITECTURAL SHALL GOVERN.
 - CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, TAPS, ETC. ASSOCIATED WITH THEIR WORK.
 - CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE ON PLANS.
 - SPECIFIC EQUIPMENT MANUFACTURERS AND/OR MODEL NUMBERS LISTED ON PLANS ARE TO ESTABLISH A BASIS-OF-DESIGN FOR QUALITY AND PERFORMANCE. VERIFY THAT SUBSTITUTIONS WILL BE ACCEPTABLE PRIOR TO PURCHASE & INSTALLATION.
 - NOTIFY ENGINEER OF ANY MAJOR PLAN DISCREPANCIES OR CONFLICTS PRIOR TO PROVIDING BIDS OR COMPLETING ANY WORK.
 - SEE DISCIPLINE SHEETS FOR ADDITIONAL TRADE SPECIFIC SPECIFICATIONS.
 - WHERE SHUTDOWN OF ANY EXISTING UTILITY OR SERVICE TO BUILDING IS REQUIRED FOR COMPLETION OF WORK, COORDINATE OUTAGE WITH OWNER AS TO NOT DISRUPT TYPICAL OPERATIONS.
- WORKMANSHIP**
 - SYSTEMS SHALL BE INSTALLED IN A FIRST-CLASS MANNER USING BEST ACCEPTABLE METHODS AND PRACTICES.
 - ALL SYSTEMS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION. COMPONENTS SHALL BE INSTALLED LEVEL AND PLUMB WITH ATTENTION GIVEN TO OVERALL AESTHETICS.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
 - CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE COMPLETED PROJECT IS RELEASED TO THE OWNER, UNLESS NOTED OTHERWISE ON PLANS.
 - DURING INSTALLATION OF MATERIALS OR ACTIVITIES IN NEW WORK SCOPE, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. ANY DAMAGE TO EXISTING SURFACES OR EQUIPMENT SHALL BE CORRECTED AT NO COST TO OWNER.

DEFERRED SUBMITTAL NOTES

- FIRE ALARM SYSTEM**
 - FIRE ALARM CONTRACTOR SHALL PROVIDE DEFERRED SUBMITTAL PACKAGE FOR FIRE ALARM SYSTEM. SUBMITTAL SHALL INCLUDE BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, EQUIPMENT SPECIFICATIONS FOR DEVICES AND PANELS, ETC. DESIGN SHALL BE SEALED BY A QUALIFIED DESIGN PROFESSIONAL LICENSED BY THE STATE.
 - FIRE ALARM SYSTEM COMPONENTS SHOWN (IF APPLICABLE) ARE GENERAL AND SCHEMATIC IN NATURE, SHOWN FOR APPROXIMATE ROUGH-IN LOCATIONS AND QUANTITIES ONLY. CONTRACTOR TO VERIFY EXACT DEVICE LOCATIONS AND REQUIREMENTS WITH FIRE ALARM SYSTEM DESIGNER OF RECORD PRIOR TO ROUGH-IN.
- FIRE SPRINKLER SYSTEM**
 - FIRE SPRINKLER CONTRACTOR TO PROVIDE DEFERRED SUBMITTAL PACKAGE FOR FIRE SPRINKLER SYSTEM. SUBMITTAL SHALL INCLUDE HYDRAULIC CALCULATIONS AND SPRINKLER SYSTEM DRAWINGS SEALED BY A QUALIFIED DESIGN PROFESSIONAL LICENSED BY THE STATE.
 - WHERE COMBINED FIRE & DOMESTIC WATER SUPPLY LINES ARE SHOWN ON PLANS, INSTALLING CONTRACTOR SHALL VERIFY WITH FIRE SPRINKLER CONTRACTOR THAT INCOMING LINE SIZE IS ADEQUATE FOR FIRE SUPPRESSION SYSTEM.

REFERENCED CODES IN EFFECT

PROJECT HAS BEEN DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES LISTED BELOW, BUT THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND LOCAL REQUIREMENTS.

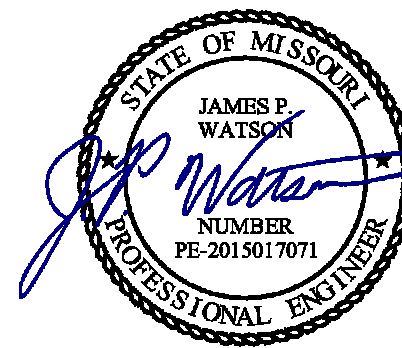
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRIC CODE

FIRE RATED PENETRATION NOTES

- THIS BUILDING CONTAINS FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL PLANS FOR LOCATIONS AND DETAILS.
- A UL-LISTED FIRESTOP SYSTEM SHALL BE INSTALLED AT EACH PENETRATION OF A HORIZONTAL OR VERTICAL RATED ASSEMBLY IN ACCORDANCE WITH ASTM E814 OR UL 1479.
- EACH CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR THEIR PENETRATIONS THRU RATED ASSEMBLIES.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING A CATALOG OF ALL UL LISTED FIRESTOP ASSEMBLIES, AND KEEPING A PHYSICAL COPY OF DETAILS FOR EACH USED FIRESTOP ASSEMBLY ON SITE FOR REFERENCE.

SHEET LIST TABLE

SHEET #	SHEET TITLE
MEP1	ELECTRICAL COVER SHEET
MEP2	SITE UTILITIES PLAN
E101	ELECTRICAL PLAN



James Watson, P.E. April 15, 2025
PE-2015017071
MO Certificate of Authority # 2018029680



J-SQUARED
ENGINEERING

2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573.234.4492
www.j-squaredeng.com

J2 PROJECT No: J21357

J2 DESIGN: ACW

ISSUE TITLE DATE

PERMIT SET 04 - 15 - 2025

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:
The Village at Discovery Park Alura Apartments

Northeast Douglas Street
Lee's Summit, Jackson County, Missouri

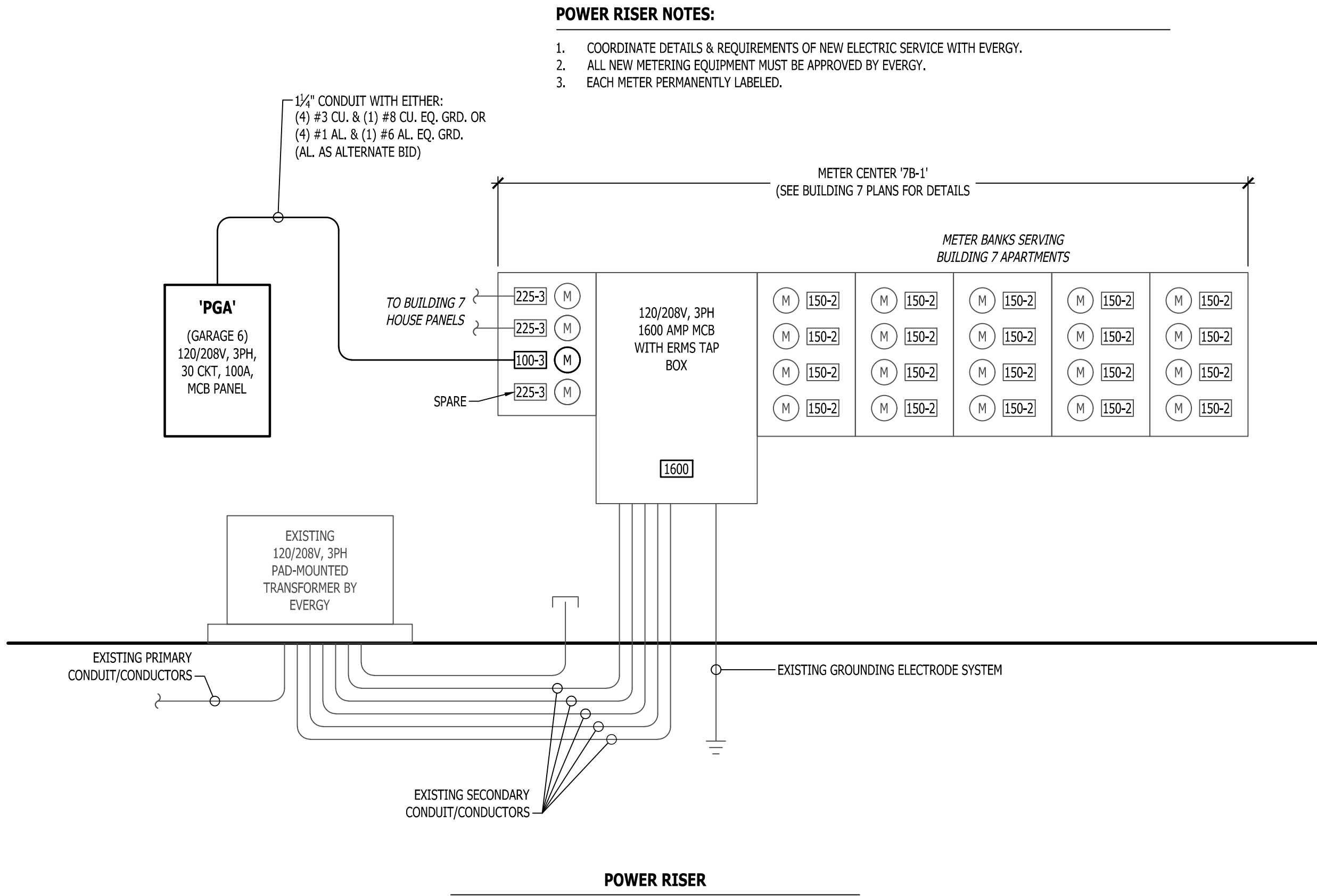
AHJ APPROVAL STAMP

SHEET TITLE

ELECTRICAL
PLAN COVER
SHEET

SHEET NUMBER

MEP1



GARAGE PANEL 'PGA' SCHEDULE									
PANEL SPECIFICATIONS					TOTAL CONNECTED LOAD				
VOLTAGE: 120/208V 3-PH			NEMA RATING: 3R				PHASE "A" LOAD: 56 AMPS		
AMPACITY: 100A MCB			PANEL MOUNTING: SURFACE				PHASE "B" LOAD: 70 AMPS		
AIC-RATING: 10kA							PHASE "C" LOAD: 67 AMPS		
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	GARAGE RECEPT.	20-1	6	A	5	20-1	OVERHEAD DOOR OPENER	2	
3	EXTERIOR RECEPT.	20-1	3	B	5	20-1	OVERHEAD DOOR OPENER	4	
5	SPARE	20-1		C	5	20-1	OVERHEAD DOOR OPENER	6	
7	SPARE	20-1		A	5	20-1	OVERHEAD DOOR OPENER	8	
9	SPARE	20-1		B	20	30-2	EV CHARGING RECEPT.	10	
11	SPARE	20-1		C	20	-	-	12	
13	SPARE	20-1		A	20	30-2	EV CHARGING RECEPT.	14	
15	SPARE	20-1		B	20	-	-	16	
17	SPARE	20-1		C	20	30-2	EV CHARGING RECEPT.	18	
19	SPARE	20-1		A	20	-	-	20	
21	SPARE	20-1		B	20	30-2	EV CHARGING RECEPT.	22	
23	SPARE	20-1		C	20	-	-	24	
25	SPARE	20-1		A			OPEN	26	
27	SPARE	20-1		B	2	20-1	INTERIOR LIGHTING	28	
29	SPARE	20-1		C	2	20-1	EXTERIOR LIGHTING	30	

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

SITE UTILITIES PLAN SYMBOL LEGEND

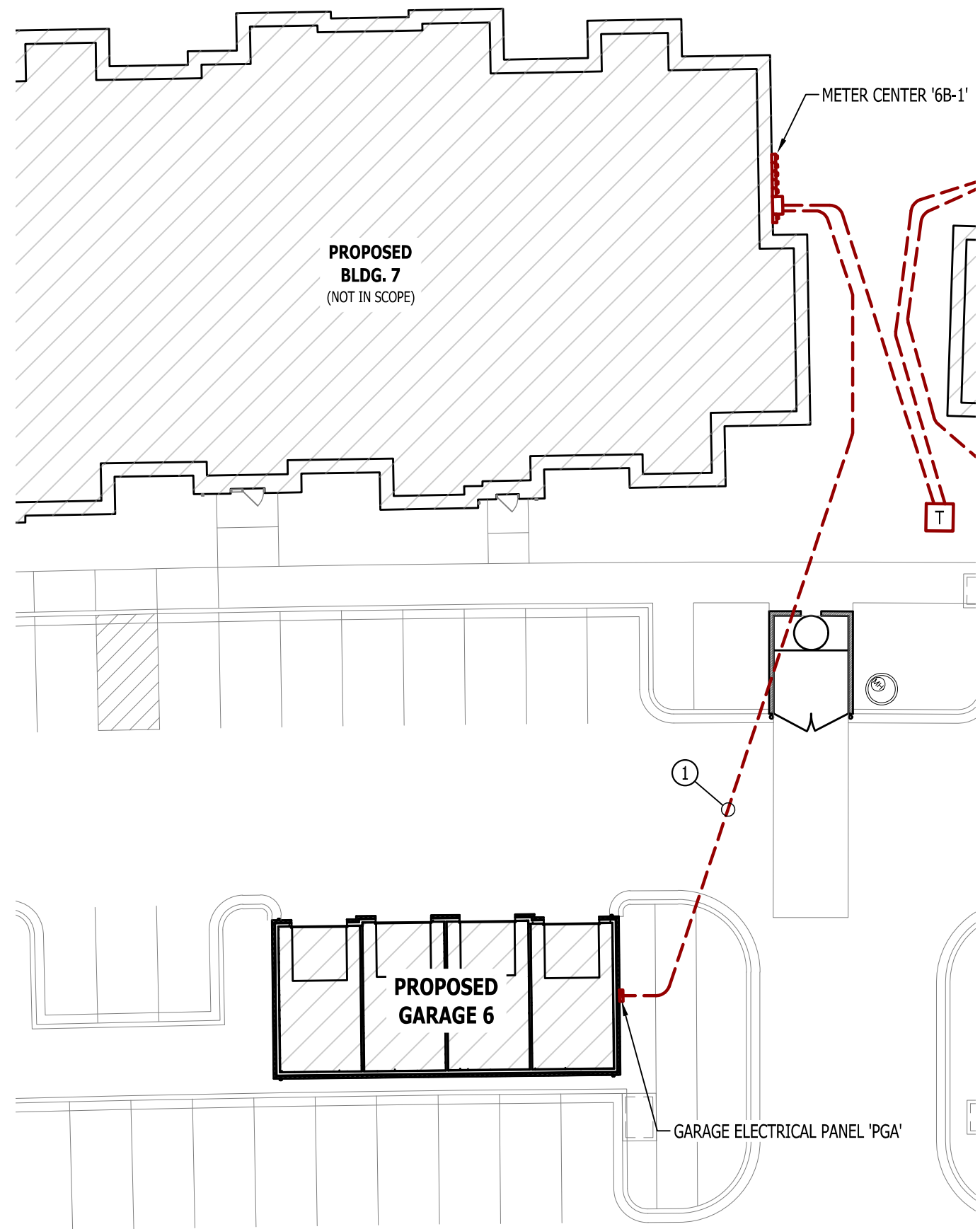
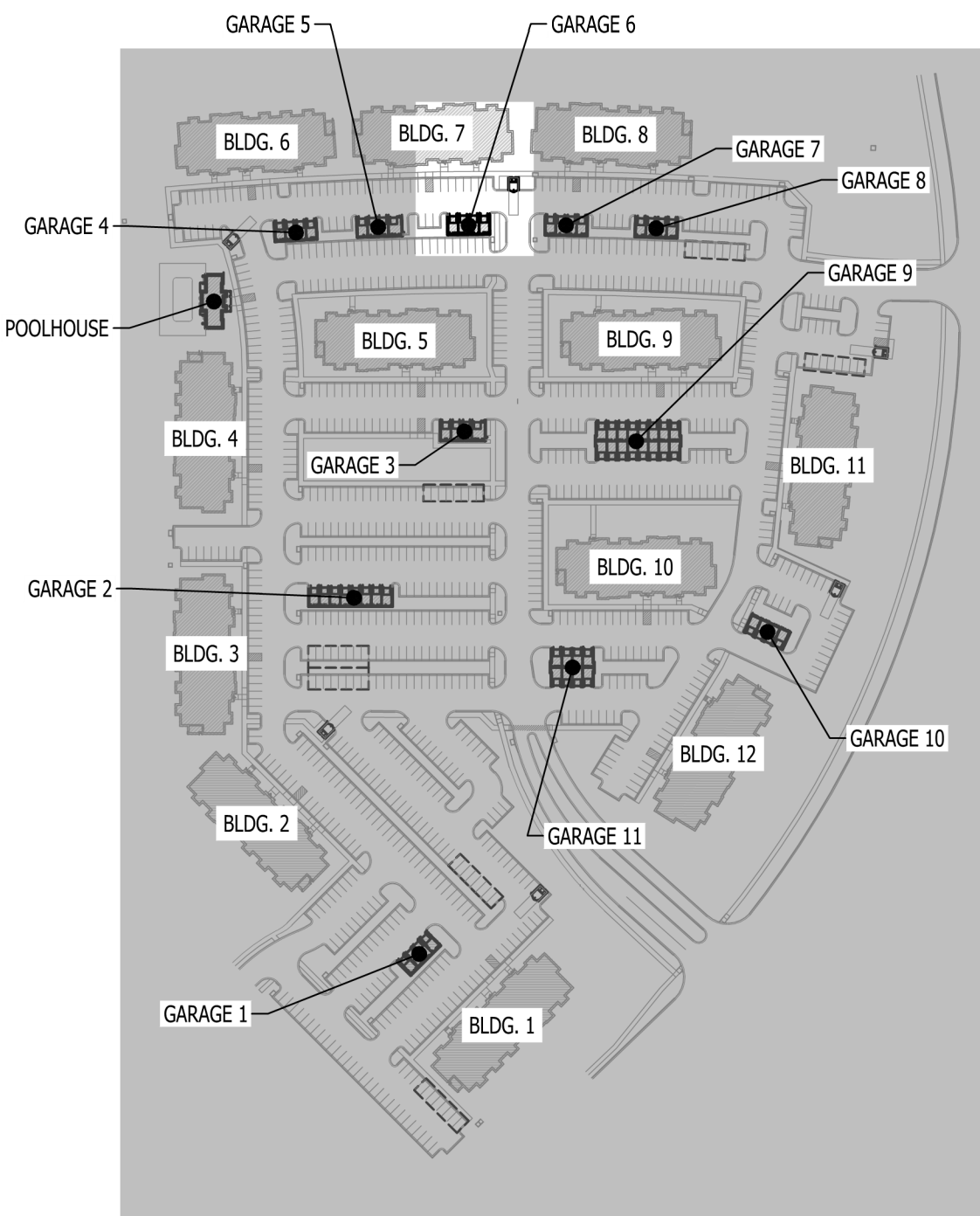
- SANITARY SEWER PIPING
- COLD WATER LINE
- WATER METER
- VALVE
- GAS LINE
- GAS METER
- TIE INTO EXISTING
- ELECTRIC

SITE UTILITIES PLAN GENERAL NOTES:

- REFER TO CIVIL PLANS FOR EXACT UTILITY LOCATIONS, CONNECTIONS, DETAILS, ETC.
- COORDINATE EXACT LOCATIONS OF ALL ELECTRICAL CONDUITS & EQUIPMENT WITH EVERGY.

SITE UTILITIES PLAN KEY NOTES:

- ① UNDERGROUND CONDUIT/CONDUCTORS FROM APARTMENT METER CENTER TO GARAGE (SEE POWER RISER FOR DETAILS).



MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:
The Village at Discovery Park Alura Apartments

Northeast Douglas Street
Lee's Summit, Jackson County, Missouri

AHJ APPROVAL STAMP

SHEET TITLE

ELECTRICAL PLAN

SHEET NUMBER

E101

POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
--> PK-XX CIRCUIT TAG
J JUNCTION BOX
XX +42 RECEPTACLE
INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX
(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
"WP" = WEATHERPROOF OUTDOOR RECEPTACLE
GFCI DUPLEX CONVENIENCE RECEPTACLE
208V RECEPTACLE
QUADPLEX CONVENIENCE RECEPTACLE
DATA / PHONE JACK; BOX WITH 1" CONDUIT & CAT6 CABLE BACK TO MEDIA PANEL
LOCATION (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
DISCONNECT
120V IONIZATION SMOKE 520Hz LOW FREQUENCY ALARM WITH
SILENCING CAPABILITIES & LOW-VOLTAGE CONTACTS WIRED TO SHUT
DOWN AHU UPON FIRE DETECTION. COORDINATE WITH HVAC
CONTRACTOR. SMOKE DETECTOR MUST BE LOCATED AT LEAST 3' FROM
CEILING FAN BLADES AND AT LEAST 10' FROM ANY COOKING APPLIANCE
(FIELD-COORDINATE)

POWER PLAN GENERAL NOTES:

- SEE E500 & E600 SERIES SHEETS FOR POWER SCHEDULES, DETAILS, REQUIREMENTS, ETC.
- ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

POWER PLAN KEY NOTES:

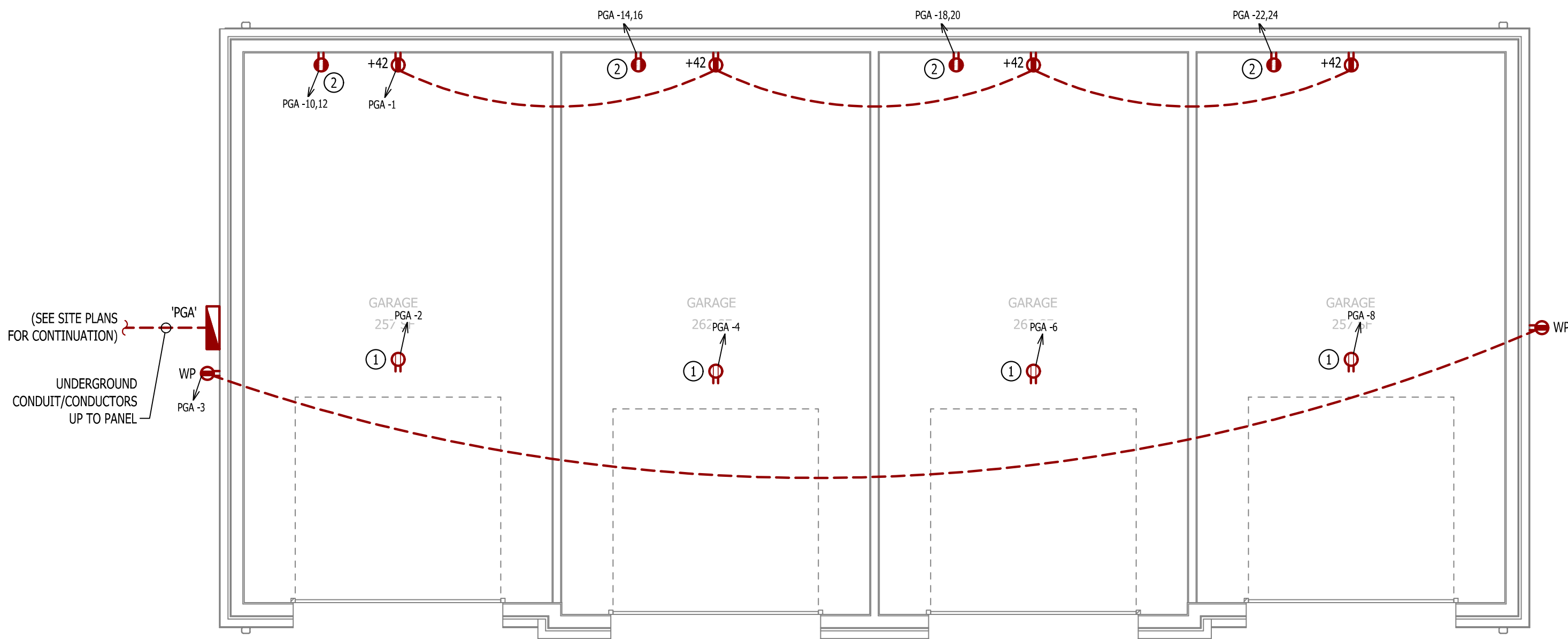
- POWER IN CEILING FOR OVERHEAD DOOR OPENER. COORDINATE EXACT LOCATION & REQUIREMENTS WITH DOOR INSTALLER.
- NEMA 6-30R RECEPTACLE FOR EV CHARGER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

LIGHTING PLAN SYMBOL LEGEND

- X1 LIGHTING FIXTURE
"X1" INDICATES FIXTURE TYPE
(REFER TO SCHEDULE)
S3 TOGGLE SWITCH
SWITCH TYPE
D DIMMER SWITCH

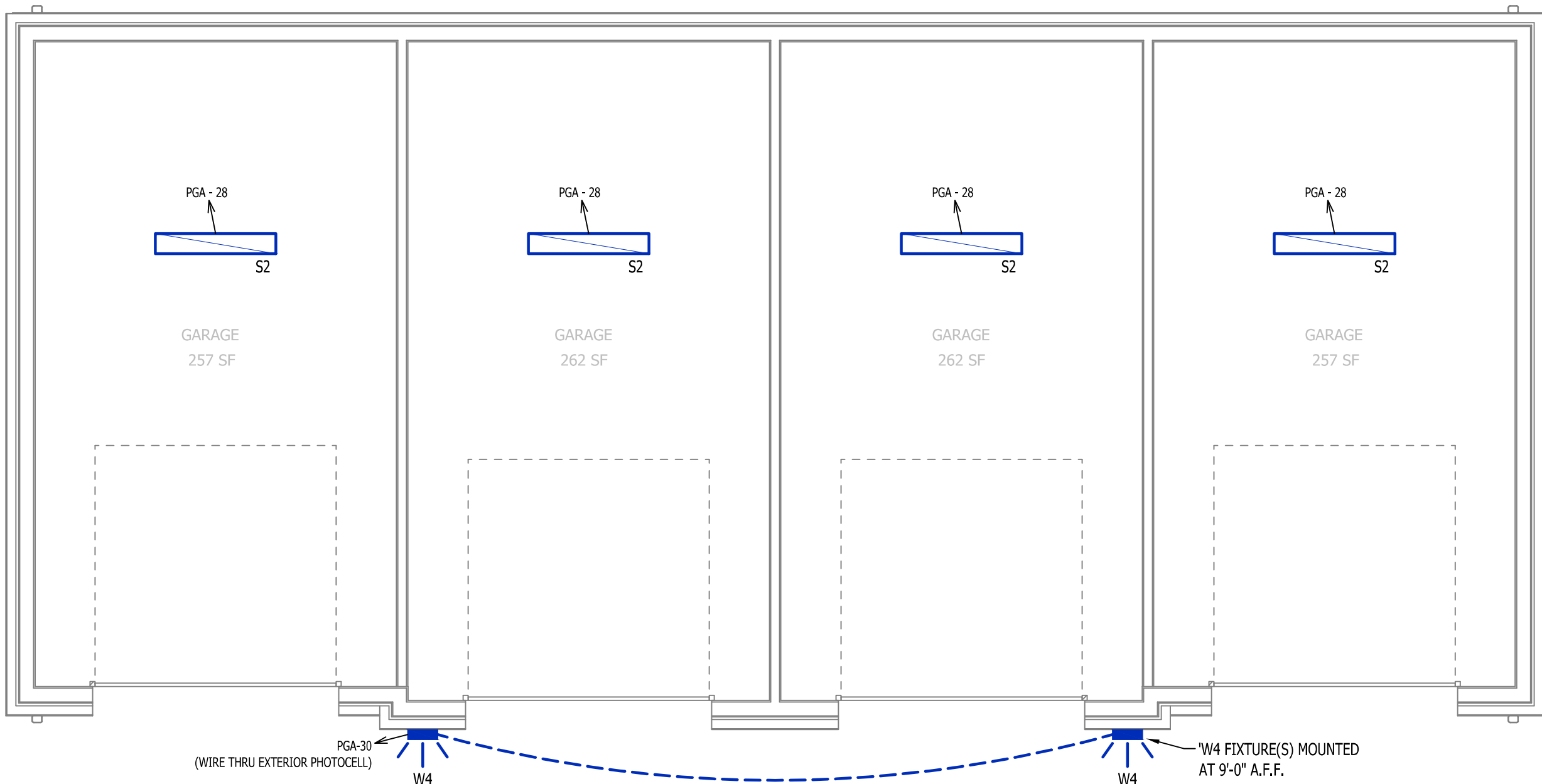
LIGHTING PLAN GENERAL NOTES:

- SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
- OCCUPANCY/VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE & INSTALL SENSOR WITH SPACING PER MANUFACTURER'S SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURER'S ACCEPTABLE MOUNTING HEIGHT RANGE.
- ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL FIXTURES, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.



POWER PLAN

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



LIGHTING PLAN

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