

ALURA APARTMENTS - VILLAGE AT DISCOVERY PARK GARAGE G6 TYPE "A"

GARAGE BUILDING "A"

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

PROJECT INFORMATION

SITE DATA			
SITE ZONING:	(SEE CIVIL)		
	(SEE CIVIL)		
SITE DENSITY:	(SEE CIVIL)		
NO. OF PARKING SPACES:	(SEE CIVIL)		
CODES AND REGULATIONS			
BLDG. & RELATED CODES:	2018 IBC, IPC, IMC & 2018 IECC		
ELECT. CODE:	2017 NEC		
FIRE CODE:			
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/FL00R		
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		

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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

DATE: OWNER: SPRINGBROOK PARK APARTMENTS, LLC

3622 ENDEAVOR AVE., STE. 101, COLUMBIA, MO 65201 DATE:

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

PM: RS DT: TY PC: <u>CD</u> QC: <u>MK</u>

PLAN SET NO.

ISSUE SET

CONSTRUCTION
As Noted on Plans Review

ARCHITECT LICENSE#

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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 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 joists. 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**

Nomaco, Inc; HBR: www.nomaco.com/#sle.

Products:

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.

Prime paint steel items.

galvanized finish.

FINISHES - STEEL

Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities

Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

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**

Pipe: ASTM A53/A53M, Grade B Schedule 40, black finish.

Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, plain.

Bolts, Nuts, and Washers: ASTM A307, Grade A, plain.

Ledge Angles and Lintels Not Attached to Structural Framing: For support of masonry;

Sealant (Urethane foam products):

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 fastners, galvanized steel. Adhesive: PVC plastic adhesive acceptable to manufacturer.

Urethane-based adhesive acceptable to manufacturer.

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

MEMBRANE ROOFING AND ASSOCIATED MATERIALS Membrane Roofing Materials:

Acceptable Insulation Types - Constant Thickness Application:

Minimum 2 layers of polyisocyanurate board.

thickness required.

elastomeric roof coatings.

TPO: Thermoplastic polyolefin (TPO) complying with ASTM D6878/D6878M, sheet contains reinforcing fabrics or scrims 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.

Primer, Roof Coating: Water-based primer with high-tack finish that promotes adhesion for

Flexible Flashing Material: Same material as membrane.

Cover Boards: Glass-mat faced gypsum panels complying with ASTM C1177/C1177M. Thickness: 1/2 inch, fire-resistant.

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 II: Faced with either cellulosic facers or glass fiber mat facers on both major

surfaces of the core foam Class 1 - Faced with glass fiber reinforced cellulosic 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 Cant and Edge Strips: Wood fiberboard, compatible with roofing materials; cants formed to 45

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

Insulation Adhesive: As recommended by insulation manufacturer.

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bottom edge of doors. PERFORMANCE REQUIREMENTS

sunlight.

COMPONENTS

MANUFACTURERS

MANUFACTURERS

Performance Class (PC): R. Design Pressure (DP): In accordance with applicable codes

Water Penetration Resistance: No uncontrolled leakage on interior face when tested in accordance with ASTM E547 at differential pressure of 15 percent of Performance Grade Air Leakage: Maximum of 0.30 cu ft/minute/sq ft at 1.57 psf differential pressure, when tested

in accordance with ASTM E283 Thermal Transmittance: U-factor of 0.35, maximum, that includes window glazing, door and frame system based on average window size required for project and determined in accordance with NFRC 100.

Forced Entry Resistance (FER): Tested to comply with ASTM F476 requirements having at least Grade 10 performance for each required swinging door assembly. **FABRICATION**

Fabricate doors in accordance with door quality standard specified.

Cores constructed with stiles and rails: Provide solid blocks at lock edge for hardware reinforcement. Provide solid blocking for other thru-bolted hardware where scheduled.

Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions. Factory fit doors for frame opening dimensions identified on shop drawings, with edge

clearances in accordance with specified quality standard.

SECTION 08 36 13 - SECTIONAL OVERHEAD DOORS SUBMITTALS

Product Data: Show component construction, anchorage method, and hardware. MANUFACTURERS

Clopay Building Products; Value Plus Series, Classic Collection: www.clopaydoor.com. Overhead Door Corp.; Series 183, Traditional Collection: www.overheaddoor.com

Sectional Overhead Doors:

Fasteners: Stainless steel. Exposed Flashings: Aluminum sheet, 20 gauge, 0.032 inch minimum thickness; finish to match framing members. Sealant for Setting Thresholds: Non-curing butyl type.

Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements. FINISHES

High Performance Organic Coating: AAMA 2604; multiple coats, thermally cured fluoropolymer system.

Color: As selected by Owner from manufacturer's standard range. HARDWARE

For each door, include weatherstripping, sill sweep strip, and threshold. Other Door Hardware: Storefront manufacturer's standard type to suit application.

For each door, include butt hinges.

SECTION 08 53 13 - VINYL WINDOWS **DELIVERY, STORAGE, AND HANDLING**

Protect finished surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond when exposed to sunlight or weather. FIELD CONDITIONS

Do not install sealants when ambient temperature is less than 40 degrees F. MANUFACTURERS

Vinyl Windows: Alside, Inc; Series 1700: www.alside.com. All Temp Windows Inc.; Series 1800: www.alltempwindows.com Jeld-Wen Inc.; Builders Vinyl Series: www.jeldwen.com.

Provide exit devices properly sized for door width and height. Provide strike as recommended by manufacturer for application indicated.

CYLINDRICAL LOCKS Manufacturers:

Basis of Design: Schlage 'Elan'. Schlage, an Allegion brand: www.allegion.com/us. Cylindrical Locks (Bored): Comply with BHMA A156.2, Grade 3.

Bored Hole: 2-1/8 inch diameter. Latchbolt Throw: 1/2 inch, minimum.

Backset: 2-3/4 inch unless otherwise indicated. **AUXILIARY LOCKS (DEADLOCKS)**

Type: Surface mounted to door.

Provide adapter plate where required.

Manufacturers: Basis of Design: Schlage 'B60' & 'B680' Hager Companies: www.hagerco.com

Yale; an Assa Abloy Group company: www.assaabloydss.com. Schlage, an Allegion brand: www.allegion.com/us. Auxiliary Locks (Deadlocks): Comply with BHMA A156.36, Grade 3. Type: Bored (cylindrical).

Provide door closer on each exterior door of the common areas.

At outswinging exterior doors, mount closer on interior side of door.

Manufacturers; Surface Mounted: Basis of Design: Falcon SC93/94; Jamb top. BEST, dormakaba Group; EHD9000: www.bestaccess.com. Sargent, Yale, or AdamsRite; an Assa Abloy Group company: www.assaabloydss.com. Falcon or LCN, an Allegion brand: www.allegion.com/us. Closers: Comply with BHMA A156.4, Grade 3.

Provide Fire-rated hardware.

3 EA Hinges - 3-1/2 inch x 3-1/2 inch EA Dead latch - single cylinder with thumb turn EA Locking Leverset 1 EA Closer

Group No 06: Pool Building Toilet Room Doors

3 EA Hinges - 3-1/2 inch x 3-1/2 inch EA Privacy Leverset w/ push-button latching 1 EA Wall-mounted Stop

Group No 07: Pool Building secure Interior Doors 3 EA Hinges - 3-1/2 inch x 3-1/2 inch

1 EA Wall-mounted Stop Group No 08: Pool Building Other Interior Doors

3 EA Hinges - 3-1/2 inch x 3-1/2 inch EA Passage Leverset EA Wall-mounted Stop

1 EA Locking Leverset

DELIVERY, STORAGE, AND HANDLING

Store all materials off of the floor in an acclimatized, weather-tight space. Maintain temperature in storage area between 65 degrees F and 90 degrees F.

TILE FLOORING Vinyl Plank: Printed film type, with transparent or translucent wear layer, floating floor.

Mannington Commercial; ADURA Flex: www.manningtoncommercial.com. Metroflor Corporation: Aspecta Five LVT: www.aspectaflooring.com. Shannon Specialty Floors, Inc; Tuf Stuf Woodland Path: www.shannonspecialtyfloors.com

Minimum Requirements: Comply with ASTM F1700, of Class corresponding to type Mold and Microbial Resistance: Highly resistant when tested in accordance with ASTM

D6329; certified in accordance with UL 2824. VOC Content Limits: As specified in Section 01 61 16. Plank Tile Size: 6 by 36 inch. Wear Layer Thickness: 0.012 inch.

Total Thickness: 0.177 inch. Color: To be selected by Owner from manufacturer's full range.

Resilient Base: ASTM F1861, Type TV, vinyl, thermoplastic; top set Style B, Cove. Manufacturers: Armstrong World Industries, Inc: www.armstrong.com. Johnsonite, a Tarkett Company: www.johnsonite.com. Roppe Corporation: www.roppe.com.

Height: 4 inches. Thickness: 0.125 inch. Finish: Satin.

RESILIENT BASE

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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. 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 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

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: Contacless 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 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. Operating Modes Supported: Proximety key fob. Features: Dedicated power loss alarm input. Supports database and event exporting. Supports database backup. Computers: Workstation Computers: Unless otherwise indicated, workstation computer hardware and associated peripherals not furnished by access control system manufacturer to be provided by Contractor as part of work of this section, meeting access control system equipment manufacturer's recommended requirements. Servers: Unless otherwise indicated, server hardware and associated peripherals not furnished by access control system manufacturer to be provided by Contractor as part of work of this section, meeting access control system equipment manufacturer's recommended requirements. ACCESS CONTROL POINT PERIPHERALS Provide devices compatible with control units and software. Provide devices suitable for operation under the service conditions at the installed location. Readers and Keypads:

Provide readers compatible with credentials to be used.

Unless otherwise indicated, credentials to be provided by Contractor.

Utilize 125 kHz RF communication with compatible credentials.

General Requirements:

Proximity Reader:

ACCESSORIES

Colors/Patterns: To be selected by Owner from manufacturer's standard line

Features:

Proximity Readers:

Read Range: Up to 12 inches.

Tamper output.

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

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Alura Village Garage Building Type "A"

Lee's Summit, Jackson County, Missouri

GENERAL NOTES

SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS

2018 INTERNATIONAL BUILDING CODE

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 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:

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

CHLORIDE— BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE

4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60 5. 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

6. CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS

7. 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.

8. 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%.

9. 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. 10.READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.

11.CONCRETE WORK EXECUTION A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.

B. 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 ½ INCHES

C. 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.

E. 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.

D. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE

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:

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

2X4 SPF No.1/No.2

SPF No.1/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.

2. SIZES SHOWN FOR LUMBER ARE NOMINAL SIZES.

3. TIMBER EXPOSED TO WEATHER OR GROUND, OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-IMPREGNATED BY AN APPROVED PROCESS AND PRESERVATIVE.

4. SPLICING OF JOISTS, STUDS, OR HEADERS IS PROHIBITED EXCEPT AS SHOWN.

5. 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.

6. 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. 7. 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. 8. FASTENING SHALL BE PER THE IBC MINIMUM FASTENING SCHEDULE, TABLE 2304.10.1, UNLESS NOTED

9. CONNECTIONS/CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

POST-INSTALLED ANCHORS

- 1. ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318. APPENDIX "D", AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
- 2. EXPANSION ANCHORS HAVE BEEN DESIGNED AS HILTI KWIK BOLT TZ ANCHORS. UNLESS NOTED
- 3. ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200 ADHESIVE IN CONCRETE OR SOLID MASONRY, UNLESS NOTED OTHERWISE.
- 4. 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). 5. 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.
- 6. 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. 7. 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
- 8. STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

PREFABRICATED WOOD TRUSSES

- 1. 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.
- 2. PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER
- 3. FLOOR & ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/360 AND TO SAFELY SUPPORT THE FOLLOWING LOADS:
- A. DEAD, LIVE, SNOW, WIND, EARTHQUAKE: SEE PROJECT DESIGN DATA ON COVER SHEET. B. MECHANICAL PIPE LOAD: TRUSSES SHALL BE DESIGNED FOR A CONCENTRATED LOAD OF 250
- C. OVER-FRAMING LOAD: TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD FRAMING, SUCH AS THAT WHICH FORMS VALLEYS AND HIPS ON ROOFS.
- D. DRIFTED SNOW LOAD: TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE.
- E. IN-PLANE LATERAL LOADS: TRUSSES SHALL BE DESIGNED TO SUPPORT ANY LATERAL LOADS ARRIED AXIALLY IN THE PLANE OF THE TRUSS. AS SHOWN ON THE PLANS.
- 4. GABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" O.C. MAXIMUM
- 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 DIAGRAMS, 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.

- a. CONCRETE GROUT DESIGN MIX (PERIODIC)
- b. PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- c. POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- d. IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
- e. WOOD FRAMING:
- e.a. SHEAR WALLS; WALL SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
- e.b. DIAPHRAGMS (FLOOR AND ROOF SHEATHING); SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
- e.c. FRAMING MEMBERS AND DETAILS (PERIODIC)
- e.d. MATERIAL GRADE (PERIODIC)
- e.e. CONNECTIONS; HANGERS, HOLD DOWNS, BUILT-UP COLUMNS, BUILT-UP BEAMS (PERIODIC)
- e.f. 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 ROOF LOAD DATA** LIVELOAD ASPHALT SHINGLES + FELT 5/8" OSB ROOF SHEATHING PRE-ENGINEERED WOOD TRUSSES @ 2'-0" O.C. INSULATION (BLOWN) MECHANICAL ALLOWANCE 5/8" GYP. CEILING TOTAL TO TRUSSES 45 lbs/sq.ft 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) Ce = 14.00 lbs/sq.ft WIND DESIGN DATA 109 M.P.H. (3-SECOND GUST) V_{ult} = RISK CATEGORY **EXPOSURE** ± 0.18 INTERNAL PRESSURE COEFFICIENT = MAXIMUM COMPONENTS & CLADDING WIND +/-24.97 lbs/sq.ft EARTHQUAKE DESIGN DATA RISK CATEGORY Ss= S1= 0.068 SITE CLASS 0.086 SDS= 0.068 SEISMIC DESIGN CATEGORY BASIC SEISMIC-FORCE-RESISTING SYSTEM = LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR 6.5 3.0 Cd = V = 0.013 WDESIGN BASE SHEAR EQUIVALENT LATERAL FORCE PROCEDURE NET ALLOWABLE SOIL BEARING

(**PER GEOTECHNICAL REPORT BY OLSSON, INC. DATED AUGUST 22, 2019)

2,500 lbs/sq.ft**

INDEX OF SHEETS COVER / GENERAL STRUCTURAL DATA GS100 FOUNDATION PLAN GS200-GS200B FOUNDATION DETAILS GS210-GS211 ROOF FRAMING PLAN GS300 ROOF FRAMING DETAILS

As Noted on Plans Review

CONSTRUCTION

SEALED AND DATED ELECTRONICALLY

Building **D** $\boldsymbol{\sigma}$ क्र Ö

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STRUCTURAL DATA

DRAWING INCLUDES:

DESIGNED: JWV SEH 230286 PROJECT NO.:

GS100

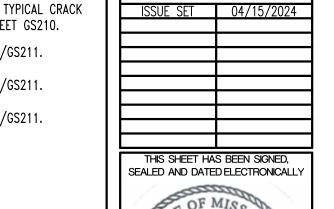
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;

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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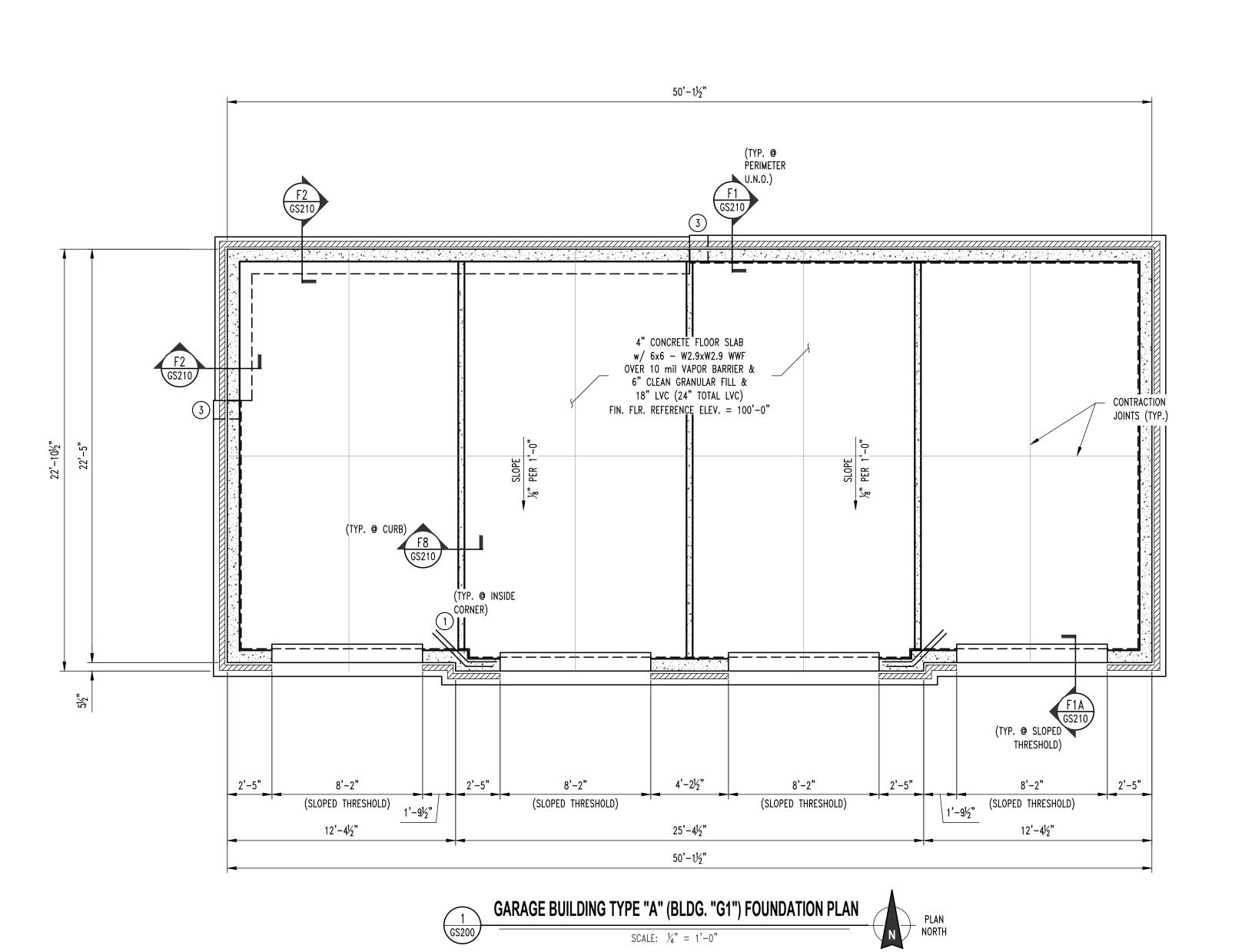
Development Services Departm Lee's Summit, Missouri

Ä O Typ Building

Garage Village Alura

DRAWING INCLUDES: FOUNDATION

DESIGNED: GS200



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

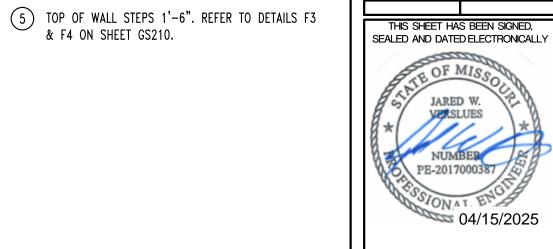
NOTE:
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;

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.
- (4) FOOTING STEP, REFER TO DETAIL FS3/GS2



ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292

www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#2000151301

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Development Services Departmen Lee's Summit, Missouri

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INTRINSIC
DEVELOPMENT
3622 ENDEAVOR AVE.
COLUMBIA, MISSOURI

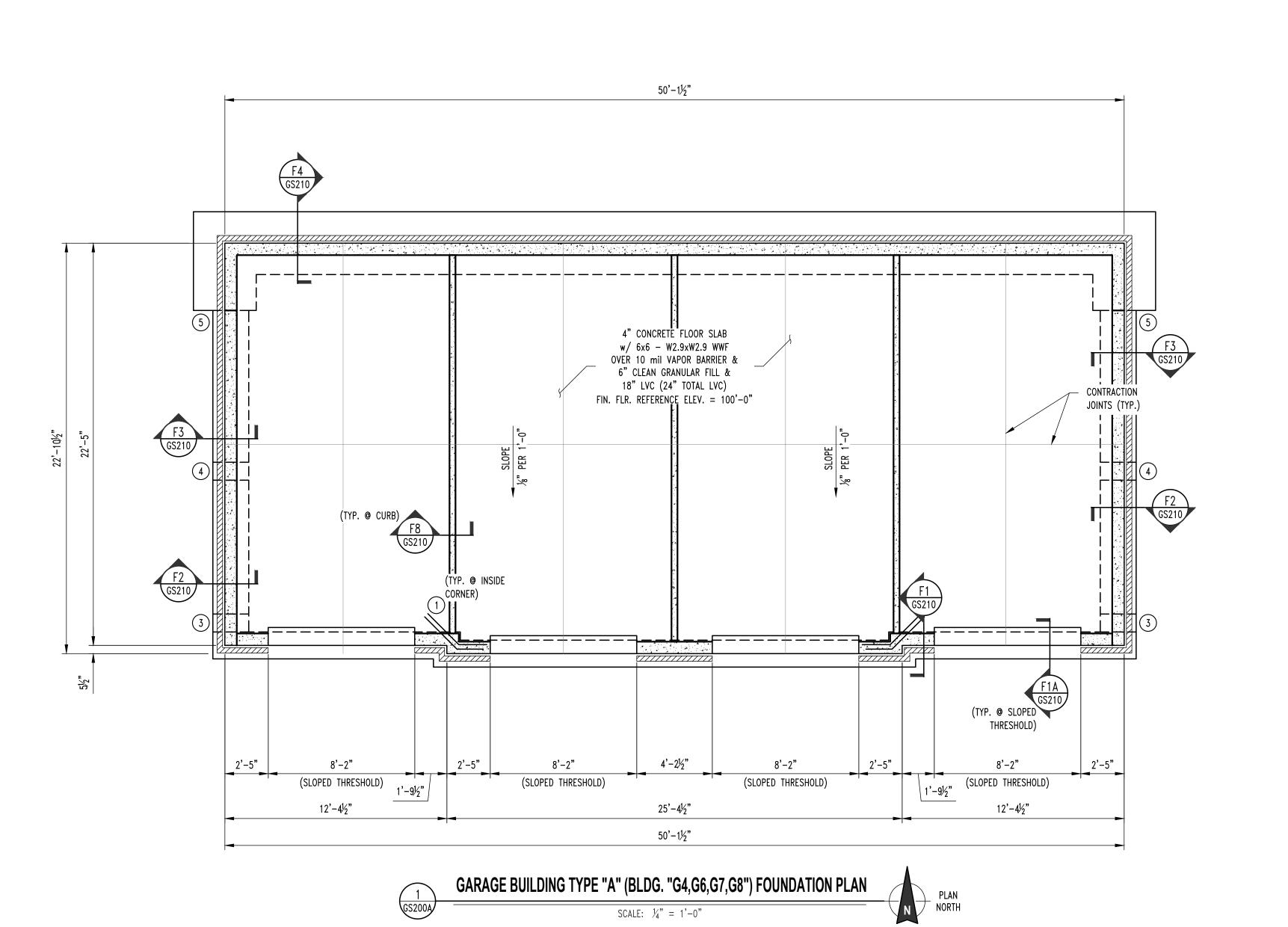
Garage Building Type "A

Alura Village Garag

DRAWING INCLUDES:

FOUNDATION PLAN

DESIGNED:	JWV		
DRAWN:	SEH		
PROJECT NO.:	230286		
SHEET:			
GS200A			



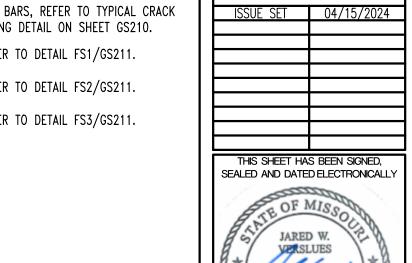
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;

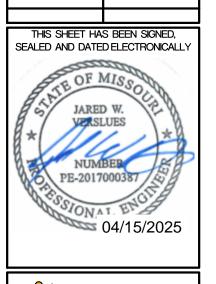
EDGE OF SLAB OR TRUSS/RAFTER; OR CENTERLINE

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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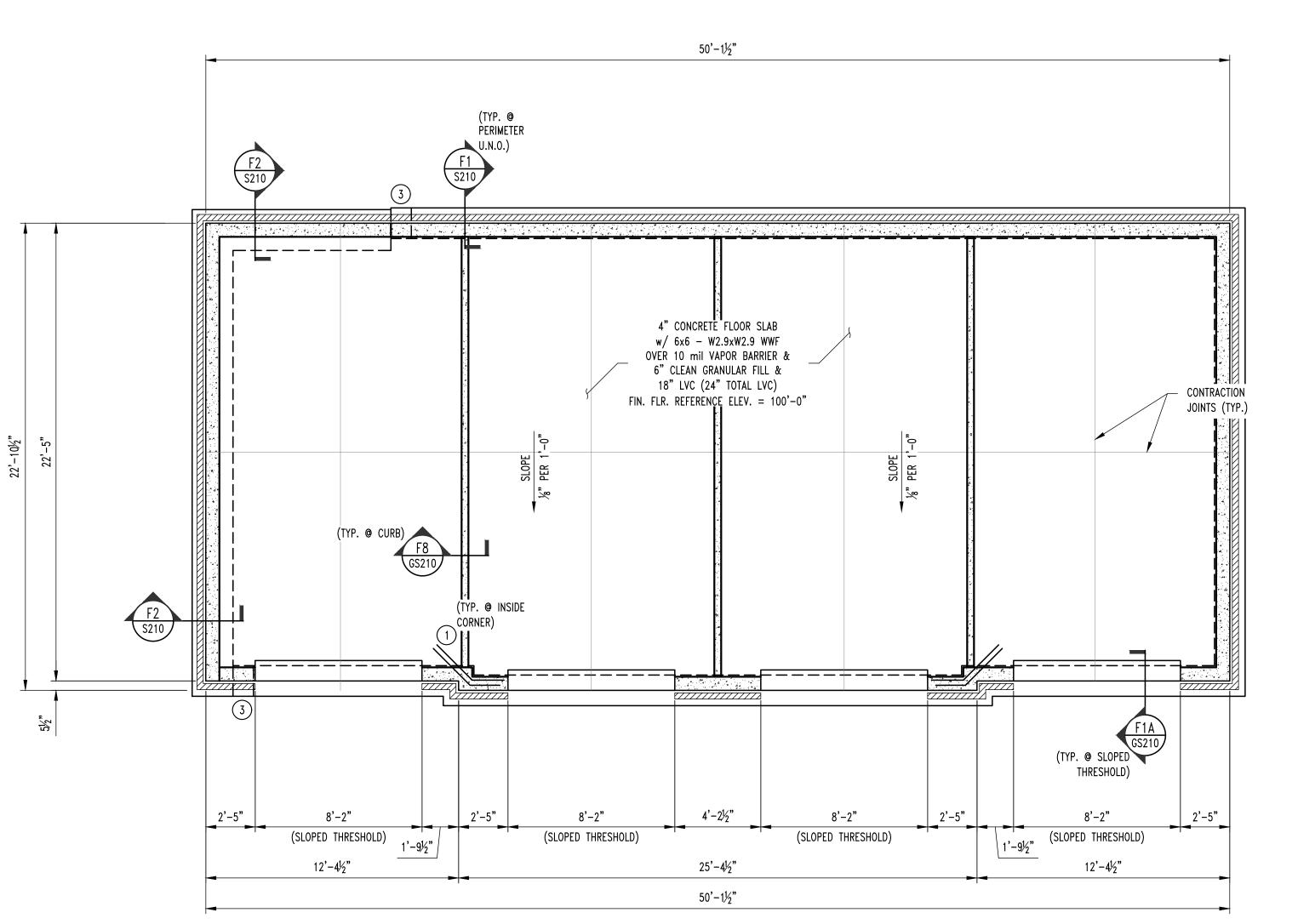
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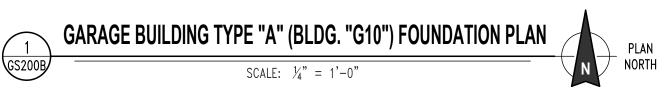
Village Alura

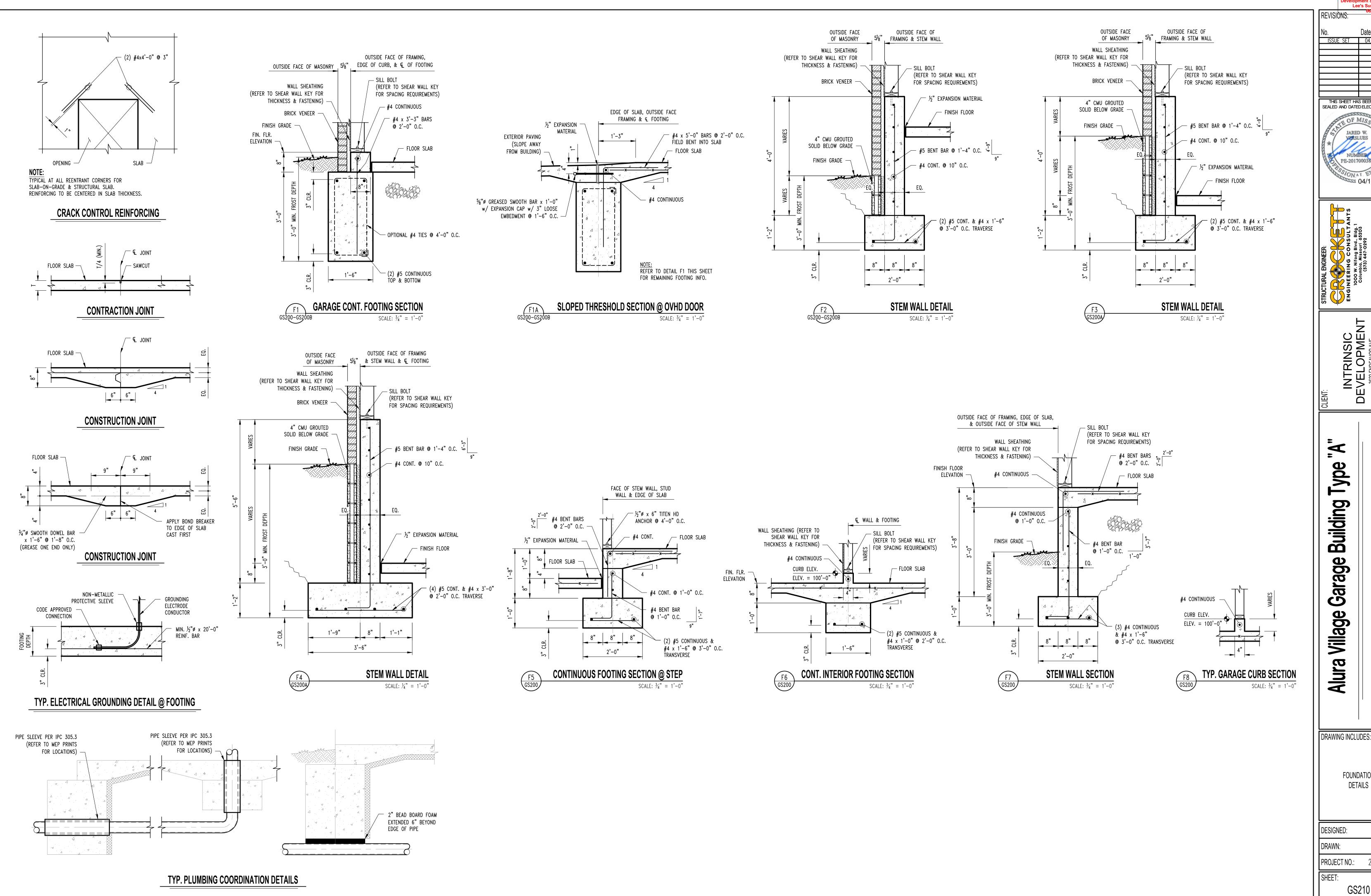
DRAWING INCLUDES:

FOUNDATION

DESIGNED:	JWV	
DRAWN:	SEH	
PROJECT NO.:	230286	
SHEET:		
GS200B		







CONSTRUCTION As Noted on Plans Review Lee's Summit, Missouri

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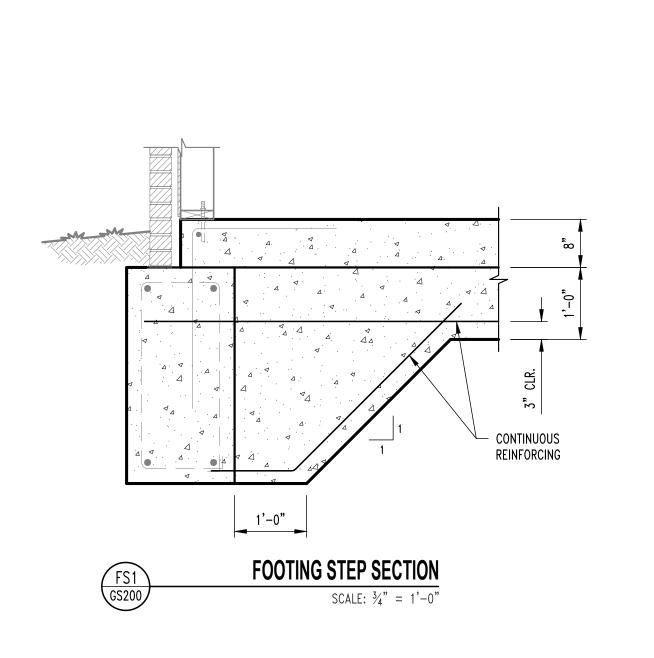
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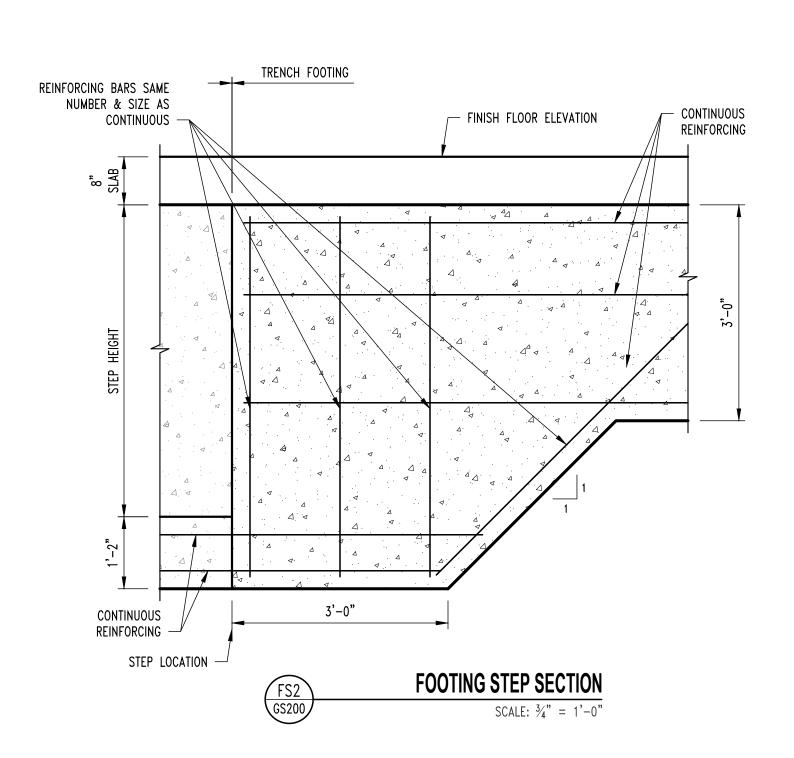
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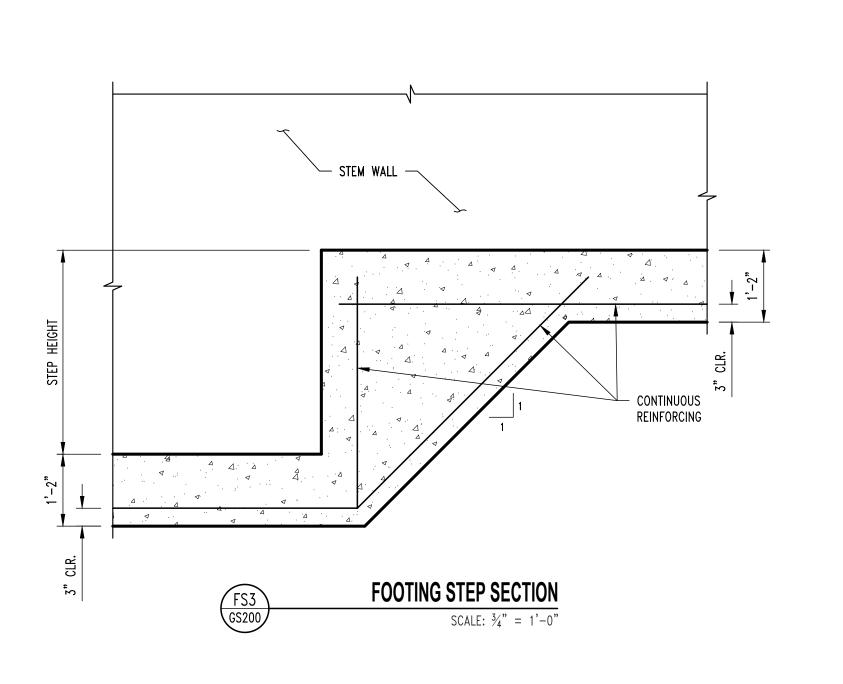
INTRINSIC DEVELOPMENT

FOUNDATION DETAILS

JWV SEH GS210







Development Services Departme Lee's Summit, Missouri

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VERSLUES

NUMBER
PE-2017000387

CONSULTANTS
CONSULTANTS
Souri 65203
17-0292
ngineering.com
age consultants, LLC
afe of Authority
151301

INTRINSIC ENGIL

DEVELOPMENT

3622 ENDEAVOR AVE.

COLUMBIA, MISSOURI

age Building Type "A"

Alura Village Garage Building

DRAWING INCLUDES:

FOUNDATION DETAILS

DESIGNED: JWV
DRAWN: SEH
PROJECT NO.: 230286
SHEET:

SHEET: GS211

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 LTTP2. 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.



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Lee's Summit, Missouri

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Village

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DRAWING INCLUDES:

Alur

DESIGNED: JWV SEH 230286 PROJECT NO.:

GS300

• 1/2" DIAMETER X 6" SIMPSON TITEN HD ANCHOR SCREWS @ 2'-0" O.C. • REQUIRES SIMPSON HTT4 TENSION TIE FASTENED TO 2-PLY STUDS W/ (18) #10 X 1½" 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

SHEAR WALL KEY

FIRST FLOOR:

SW1 SHEAR WALL

SW2 SHEAR WALL

- 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) ¼" X 2½" 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

• 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C.

REQUIRES SIMPSON DTT2Z-SDS2.5 HOLDOWN FASTENED TO 2-PLY STUDS W/ (8) ¼" X

• 7/16" OSB SHEATHING FASTENED WITH 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C.

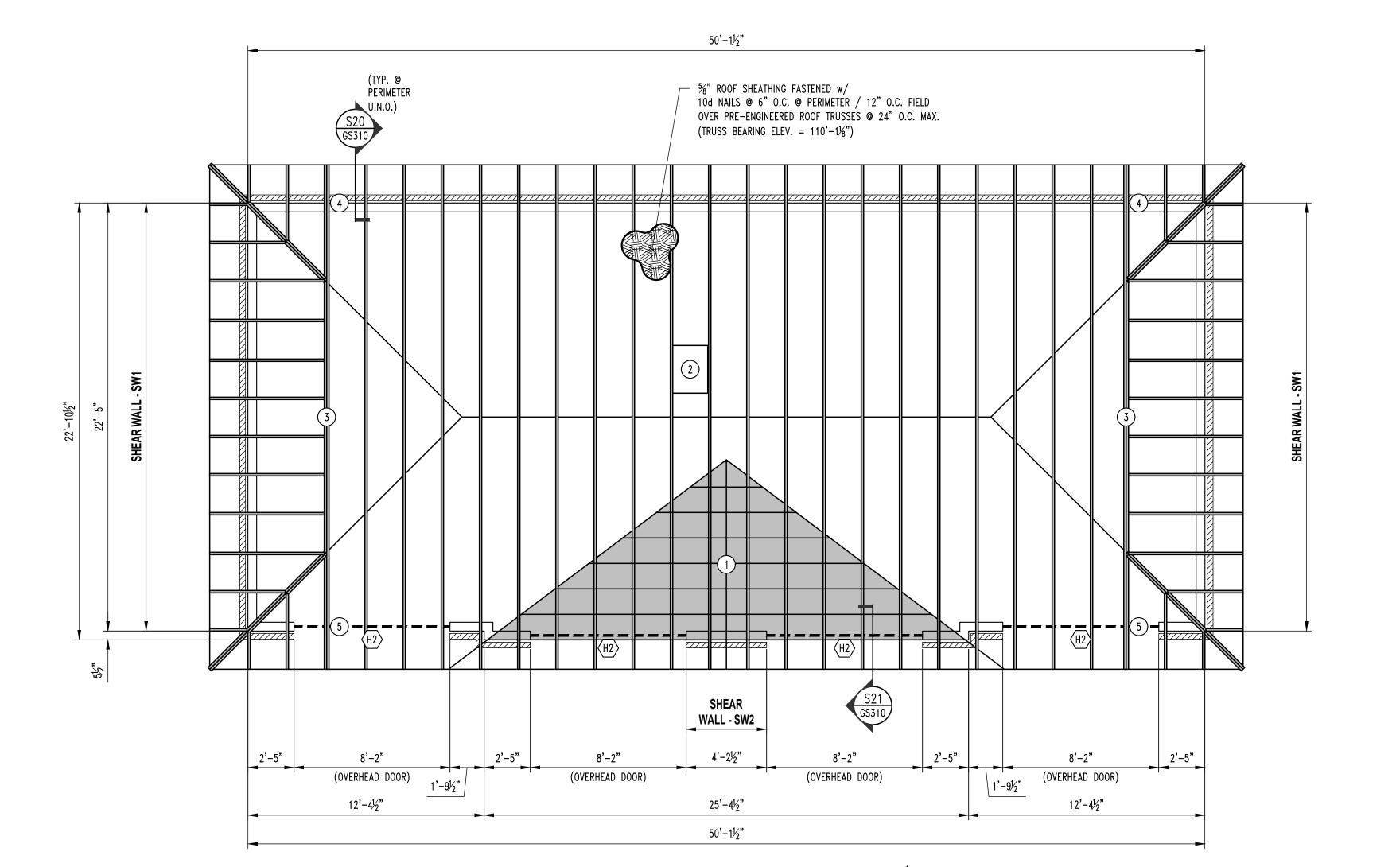
1½" SDS SCREWS W/ 1/2" DIAMETER A307 THREADED ROD W/ 16" TOTAL (8" INTO

FOOTING) SIMPSON "AT-3G" EPOXY EMBEDMENT AT EACH END OF THE SHEAR WALL

• 1/2" DIAMETER X 6" SIMPSON TITEN HD ANCHOR SCREWS @ 3'-0" O.C.

TYPICAL SHEAR WALL UNLESS NOTED

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



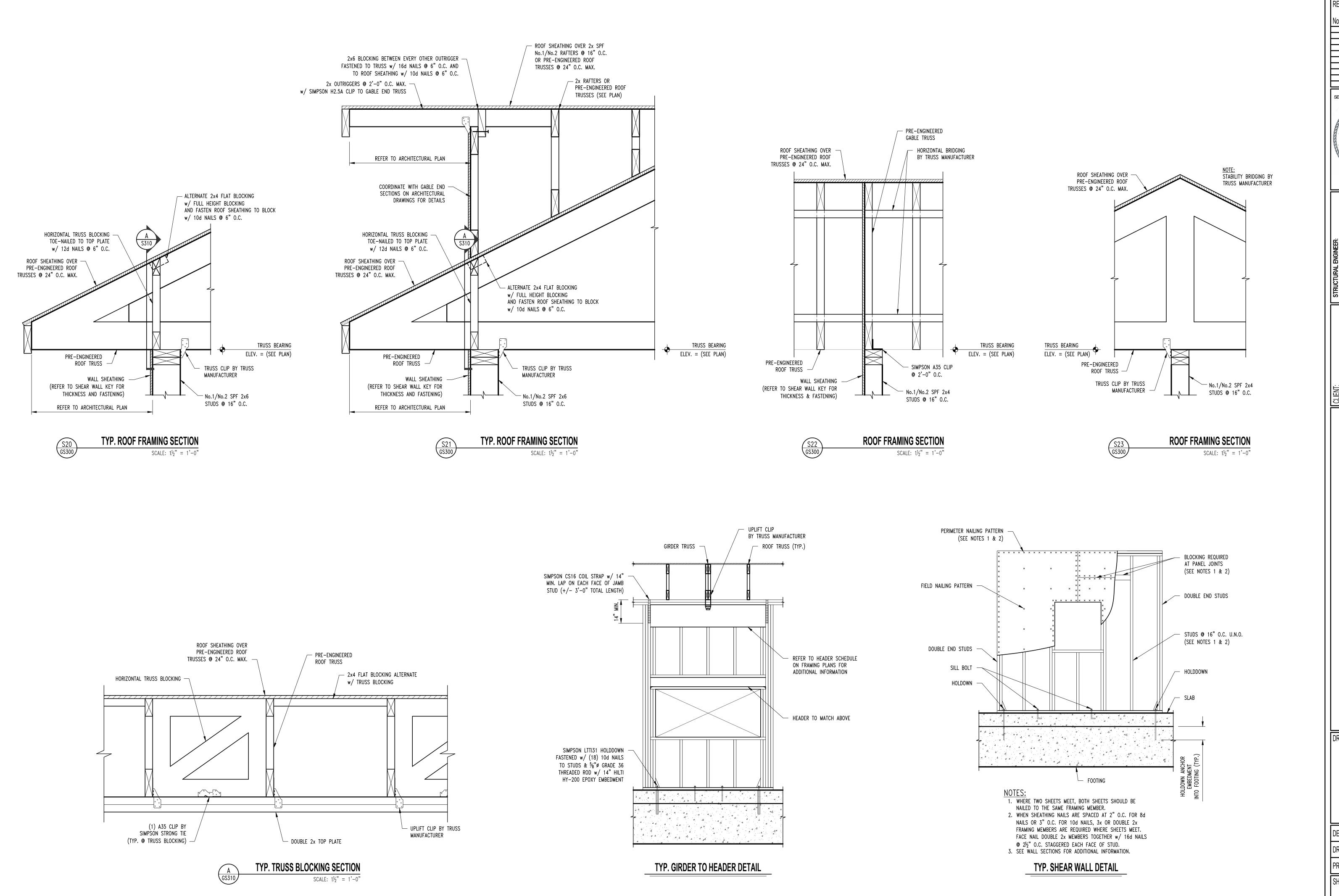
GARAGE BUILDING TYPE "A" ROOF FRAMING PLAN

SCALE: ¼" = 1'-0"

N PLAN NORTH

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					
BEL	HEADER	CRIPPLE/JACK	JAMB/KING			
11"	2 Ply 2x8 Doug. Fir No.2	Single Ply 2x6 SPF No.1/No.2	Single Ply 2x6 SPF No.1/No.2			
12"	2 Ply 2x10 Doug. Fir Sel. Struct	2 Ply 2x6 SPF No.1/No.2	2 Ply 2x6 SPF No.1/No.2			
13"	3 Ply 2x10 Doug. Fir Sel. Struct	2 Ply 2x6 SPF No.1/No.2	2 Ply 2x6 SPF No.1/No.2			
14"	3 Ply 2x12 Doug. Fir Sel. Struct	2 Ply 2x6 SPF No.1/No.2	2 Ply 2x6 SPF No.1/No.2			



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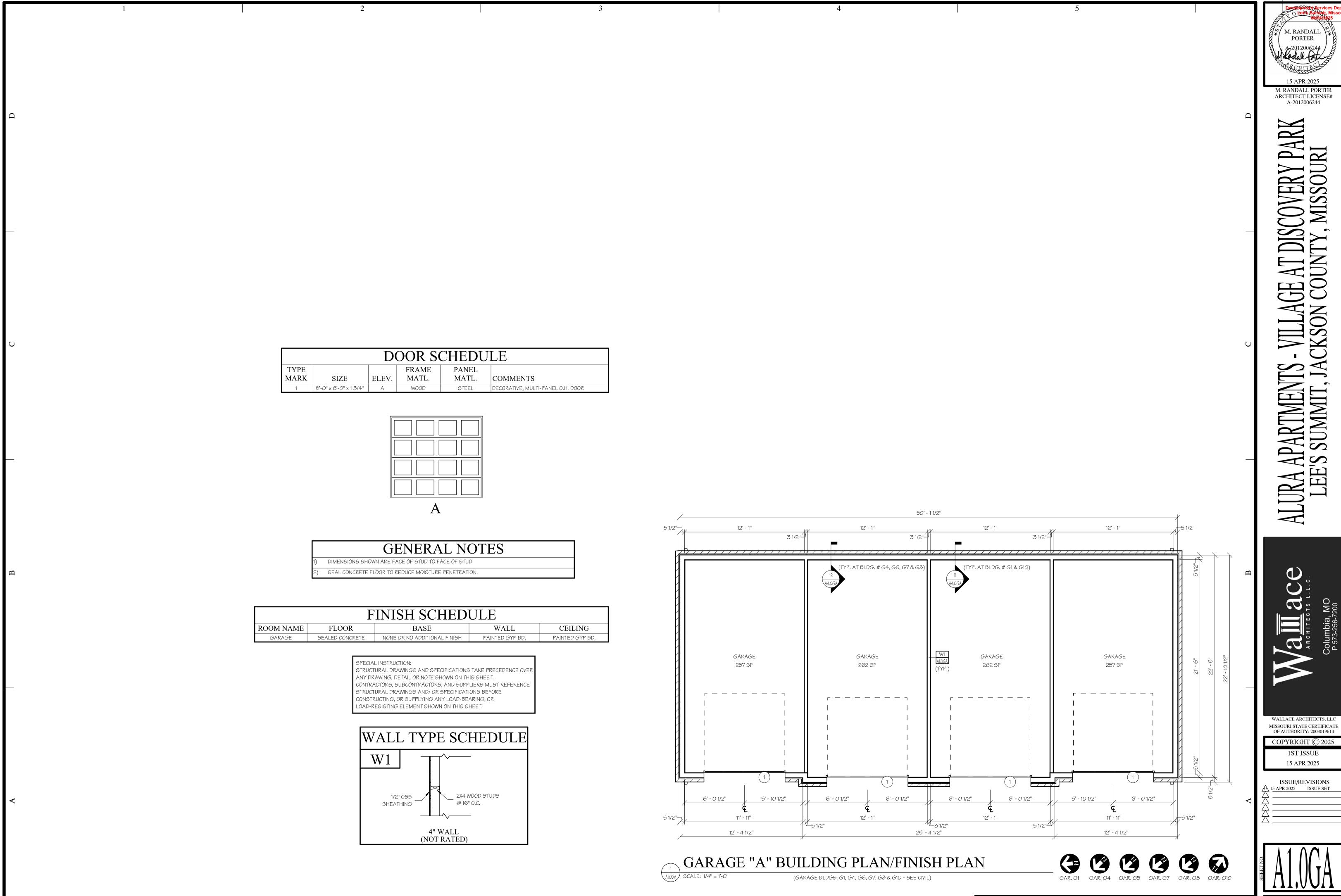
Village Alur

DRAWING INCLUDES:

ROOF FRAMING DETAILS

DESIGNED: JWV SEH

GS310



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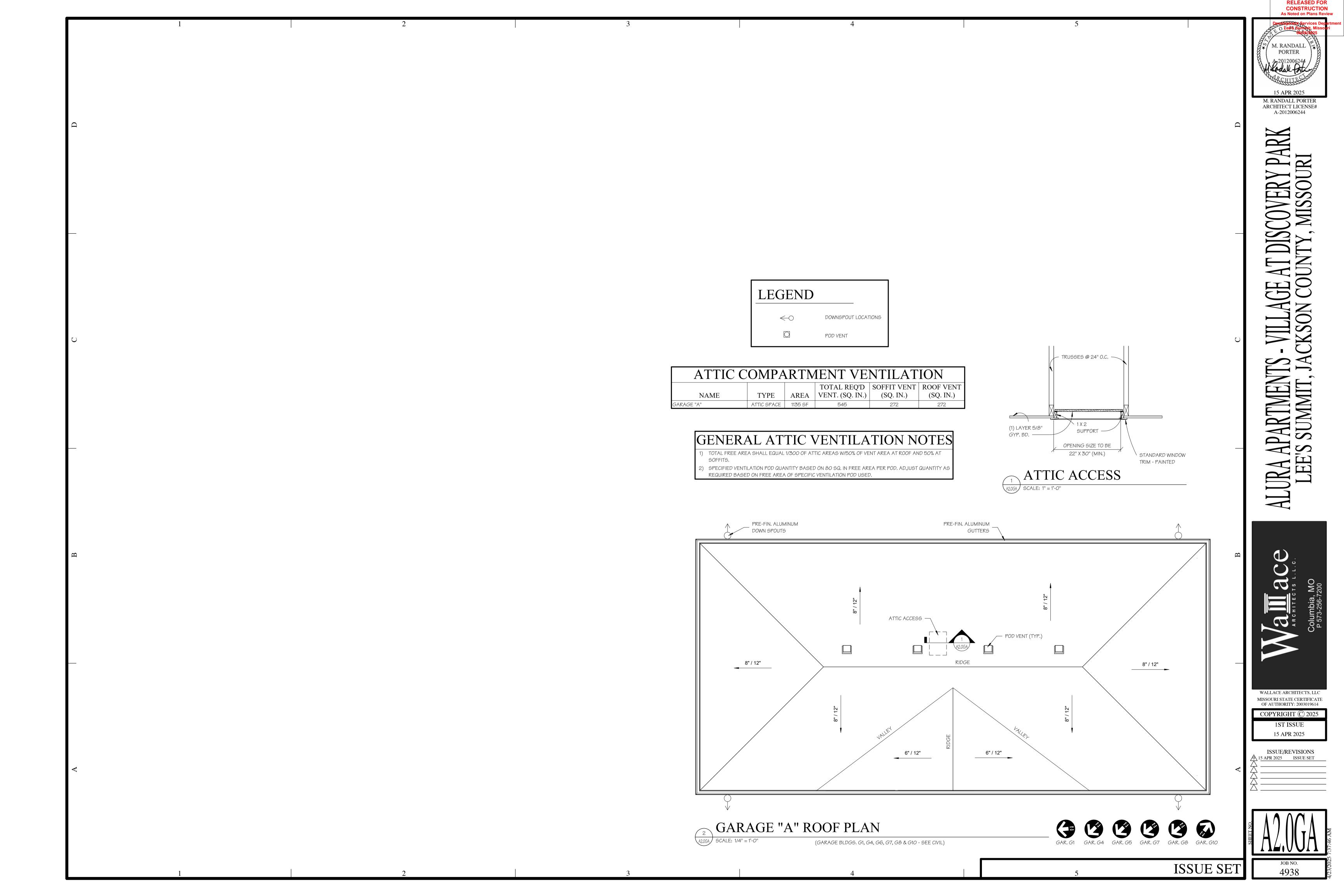
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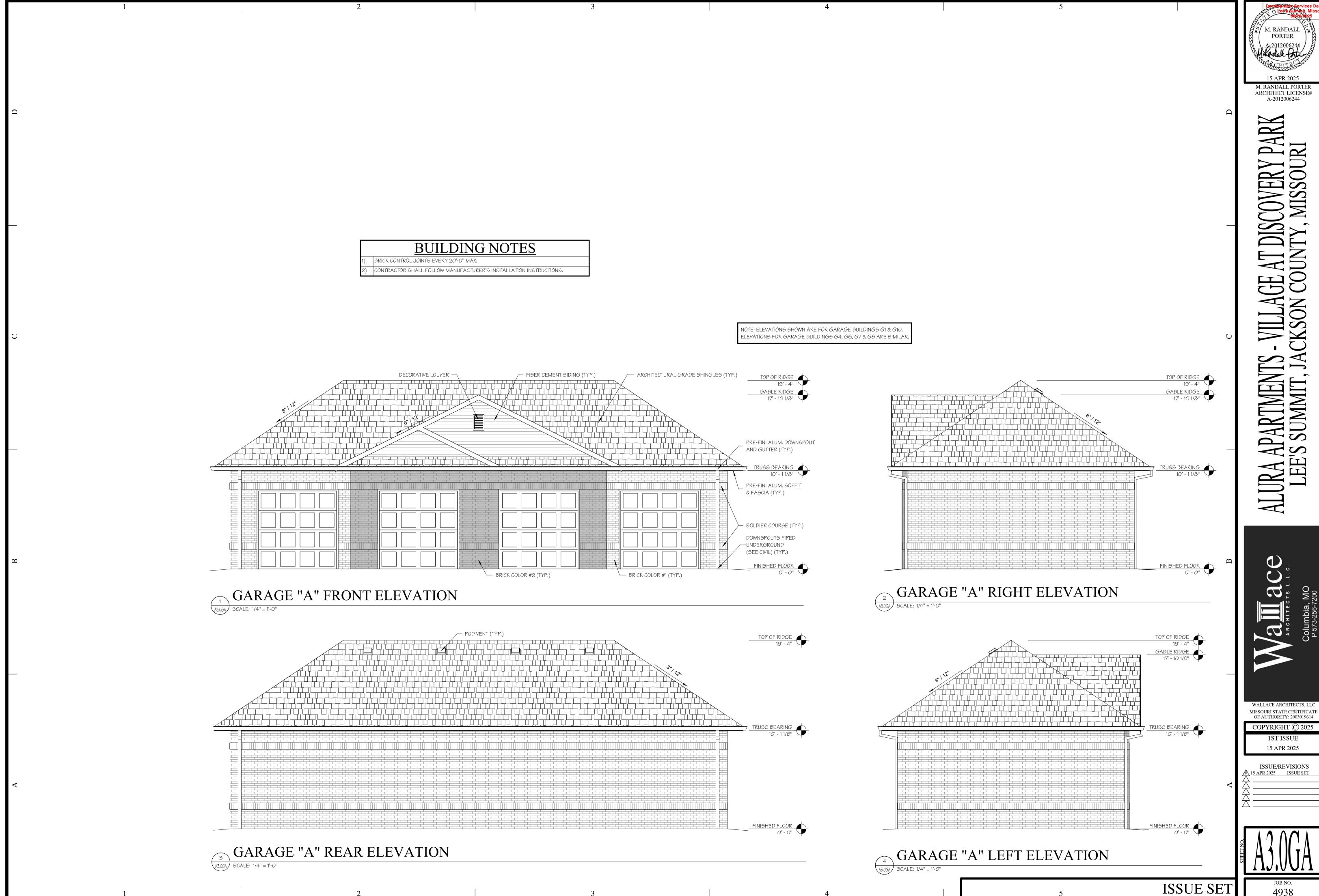
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ISSUE/REVISIONS \ 15 APR 2025 ISSUE SET

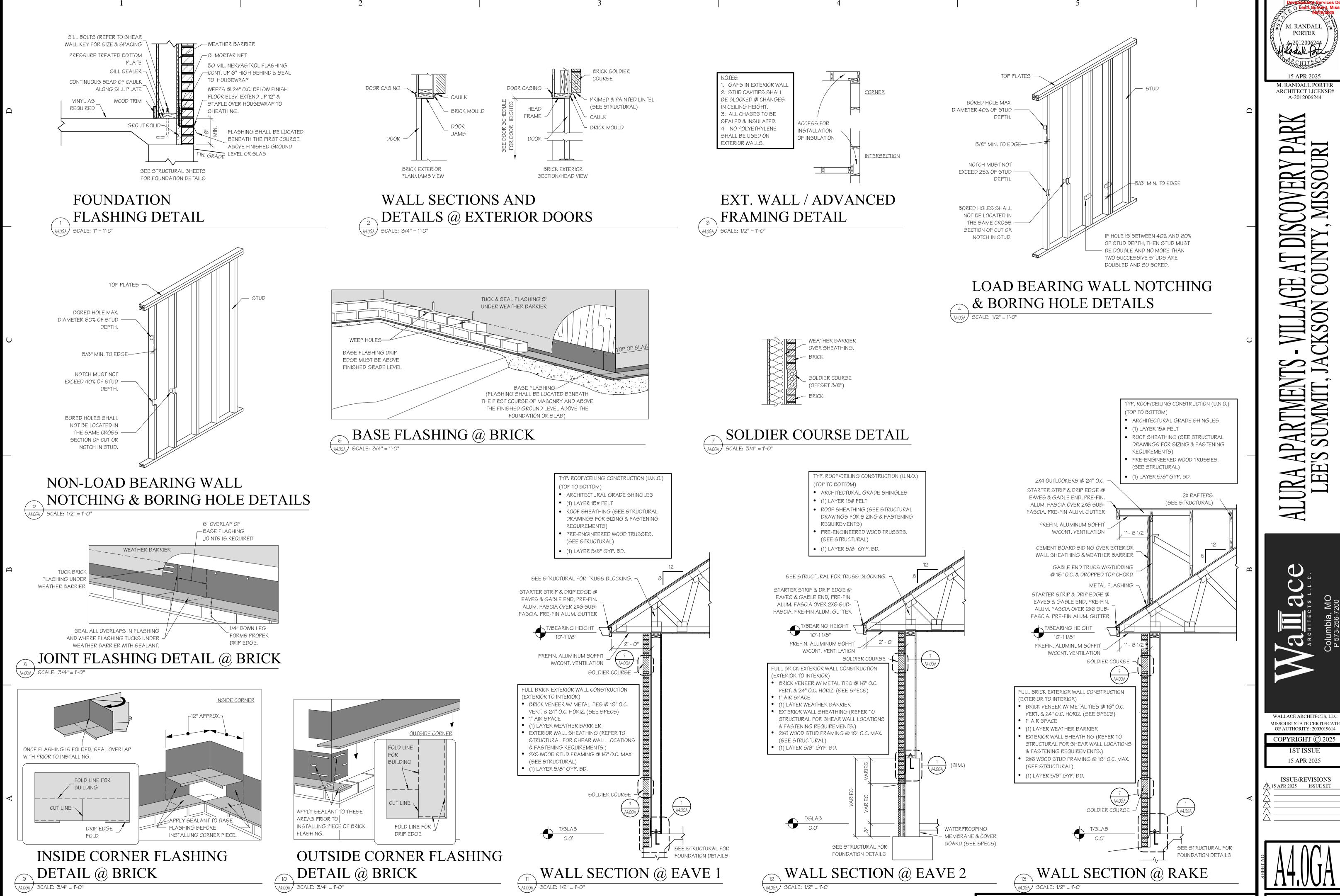
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CONSTRUCTION
As Noted on Plans Review M. RANDALL PORTER ARCHITECT LICENSE#

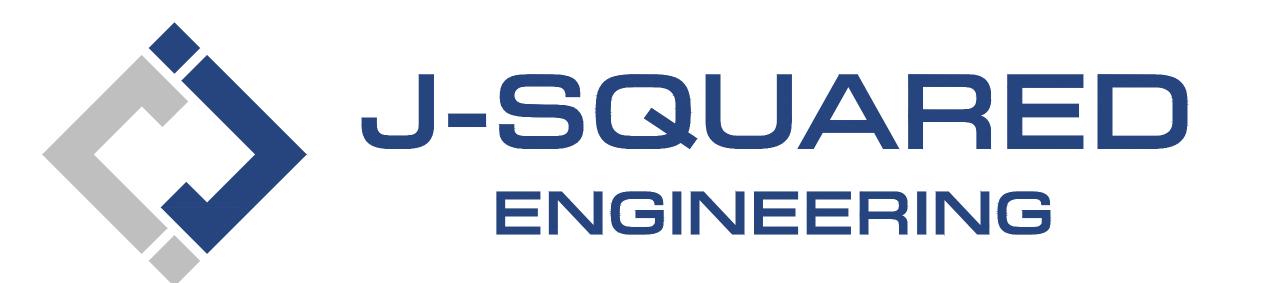


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M. RANDALL PORTER ARCHITECT LICENSE#

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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

- 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
- 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
- 1.11. 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

- SYSTEMS SHALL BE INSTALLED IN A FIRST-CLASS MANNER USING BEST ACCEPTABLE METHODS AND
- ALL SYSTEMS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION. COMPONENTS SHALL BE INSTALLED LEVEL AND PLUMB WITH ATTENTION GIVEN TO OVERALL
- 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
- 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 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.

2. FIRE SPRINKLER SYSTEM

- 1.1. 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

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

- 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
- 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

SHEET LIST TABLE

SHEET TITLE **ELECTRICAL COVER SHEET ELECTRICAL PLAN**

MO Certificate of Authority # 2018029680



J-SQUARED **ENGINEERING**

Columbia, Missouri 65201 573.234.4492 www.j-squaredeng.com

J2 DESIGN:

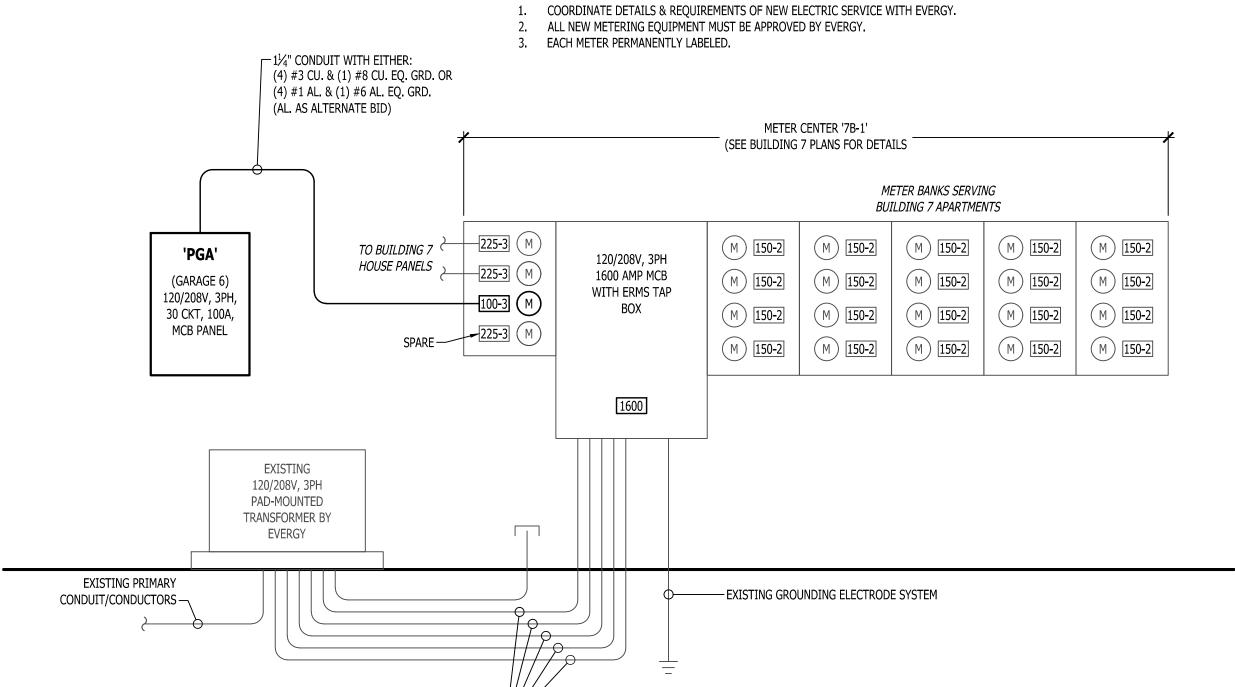
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ELECTRICAL PLAN COVER

POWER RISER NOTES:



	PA NEL S	SPECIFICA TIONS						TOTAL CONNECTED	LOAD
V	OLTA GE: 120/208V 3-PH	NEMA RA	TING: 3R					PHASE "A" LOAD:	56 AMPS
AM	PACITY: 100A MCB	PANEL MOUN	ITING: SURFACE					PHA SE "B" LOA D:	70 AMPS
AIC-	RATING: 10kA							PHA SE "C" LOA D:	67 AMPS
CIRCUIT NUMBER	DESCRI	PTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	GARAGE R	ECEPTS.	20-1	6	Α	5	20-1	OVERHEAD DOOR OPENER	2
3	EXTERIOR	RECEPTS.	20-1	3	В	5	20-1	OVERHEAD DOOR OPENER	4
5	SPA	RE	20-1		С	5	20-1	OVERHEAD DOOR OPENER	6
7	SPA	RE	20-1		Α	5	20-1	OVERHEAD DOOR OPENER	8
9	SPA	RE	20-1		В	20	30-2	EV CHARGING RECEPT.	10
11	SPA	RE	20-1		С	20	-	-	12
13	SPA	RE	20-1		Α	20	30-2	EV CHARGING RECEPT.	14
15	SPA	RE	20-1		В	20	-	-	16
17	SPA	RE	20-1		С	20	30-2	EV CHARGING RECEPT.	18
19	SPA	RE	20-1		Α	20	-	-	20
21	SPA	RE	20-1		В	20	30-2	EV CHARGING RECEPT.	22
23	SPA	RE	20-1		С	20	-	-	24
25	SPA	RE	20-1		Α			OPEN	26
27	SPA	RE	20-1		В	2	20-1	INTERIOR LIGHTING	28
29	SPA	RE	20-1		C	2	20-1	EXTERIOR LIGHTING	30

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"

POWER RISER



EXISTING SECONDARY CONDUIT/CONDUCTORS —

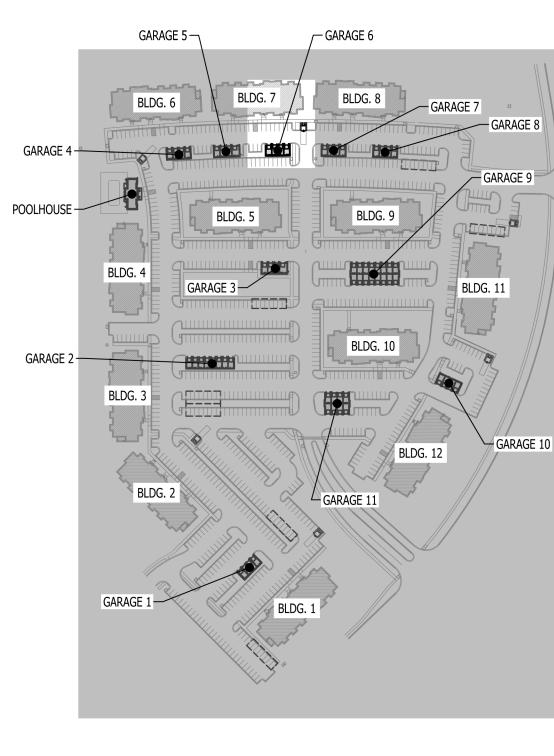
	SANITARY SEWER PIPING
	COLD WATER LINE
M	WATER METER
×	VALVE
	GAS LINE
©	GAS METER
\succ	TIE INTO EXISTING
	ELECTRIC

SITE UTILITIES PLAN GENERAL NOTES:

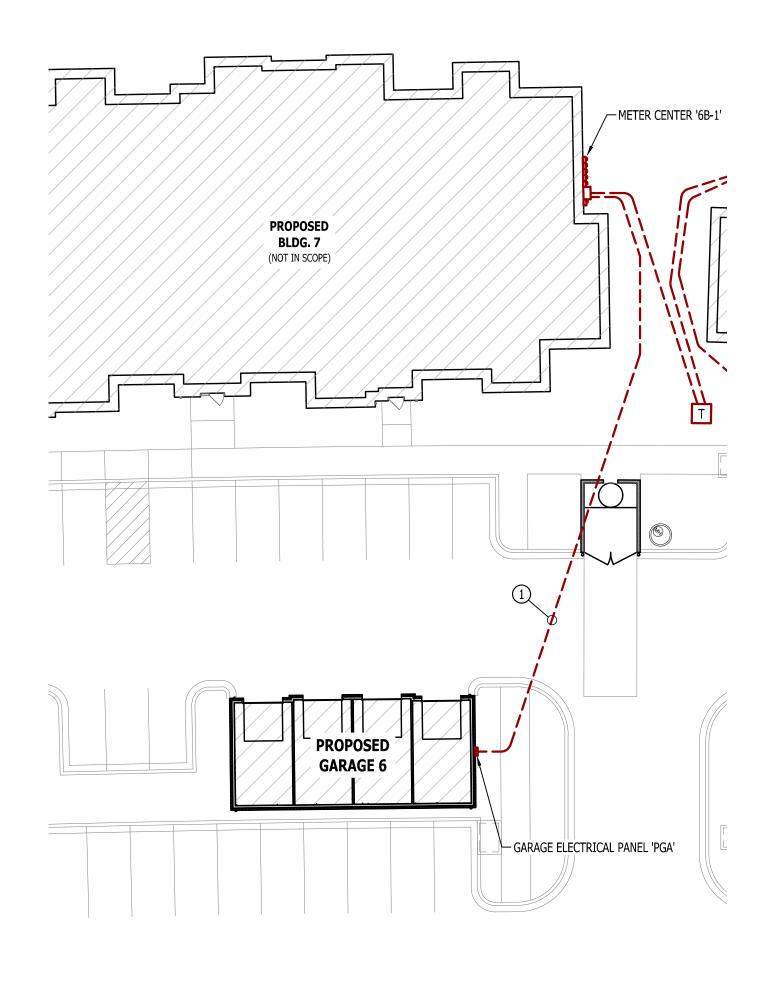
REFER TO CIVIL PLANS FOR EXACT UTILITY LOCATIONS, CONNECTIONS, DETAILS, ETC. 2. COORDINATE EXACT LOCATIONS OF ALL ELECTRICAL CONDUITS & EQUIPMENT WITH EVERGY.

SITE UTILITIES PLAN KEY NOTES:

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







SITE UTILITIES PLAN

SCALE: 1'' = 20 ft

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

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

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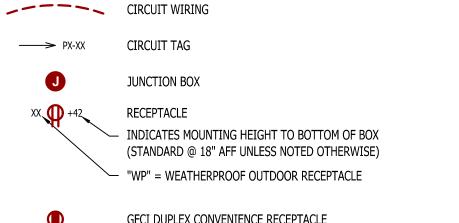
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SITE UTILITIES

PLAN

POWER PLAN SYMBOL LEGEND



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)

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:

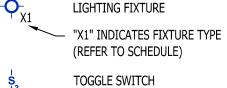
1. SEE E500 & E600 SERIES SHEETS FOR POWER SCHEDULES, DETAILS, REQUIREMENTS, ETC. 2. ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

POWER PLAN KEY NOTES:

1 POWER IN CEILING FOR OVERHEAD DOOR OPENER. COORDINATE EXACT LOCATION & REQUIREMENTS WITH DOOR INSTALLER.

2) NEMA 6-30R RECEPTACLE FOR EV CHARGER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

LIGHTING PLAN SYMBOL LEGEND



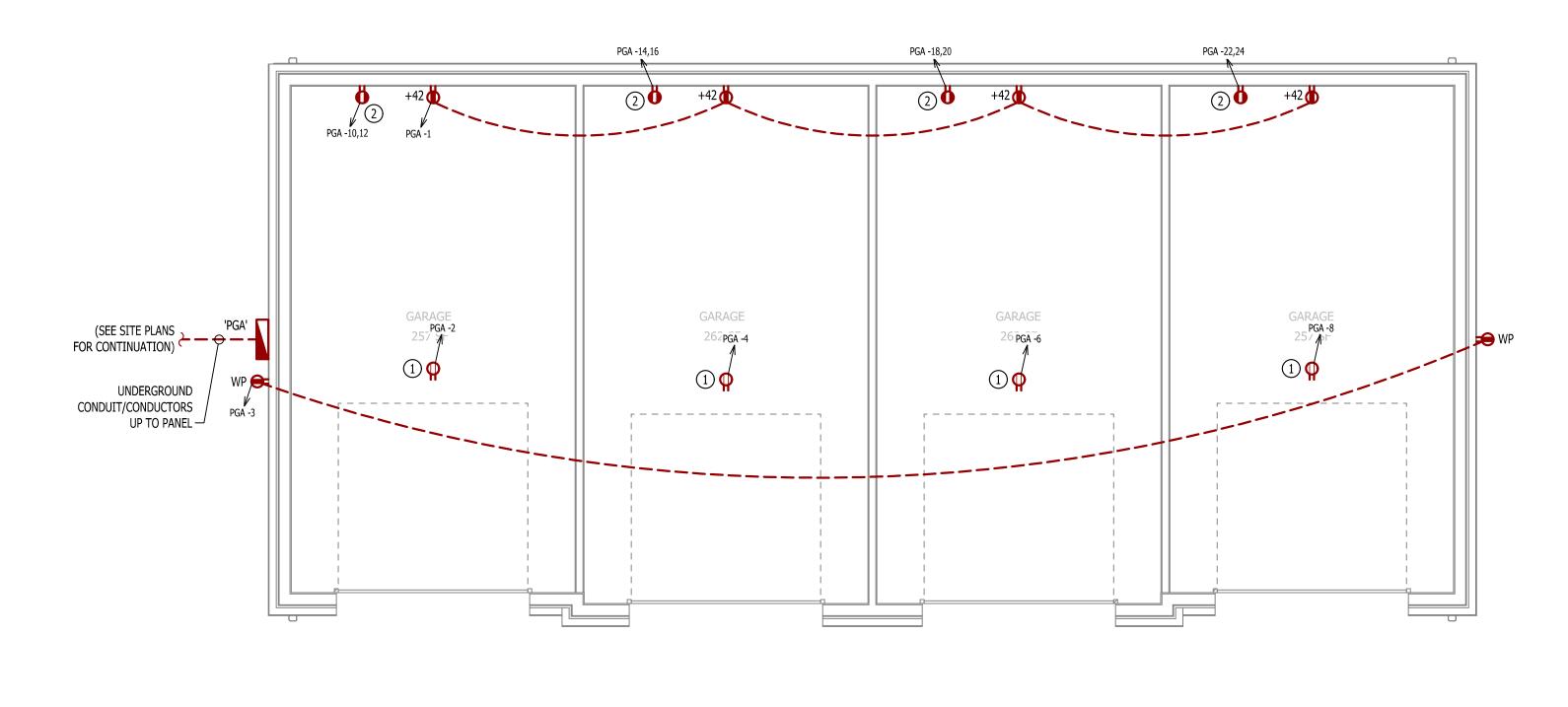
SWITCH TYPE DIMMER SWITCH

LIGHTING PLAN GENERAL NOTES:

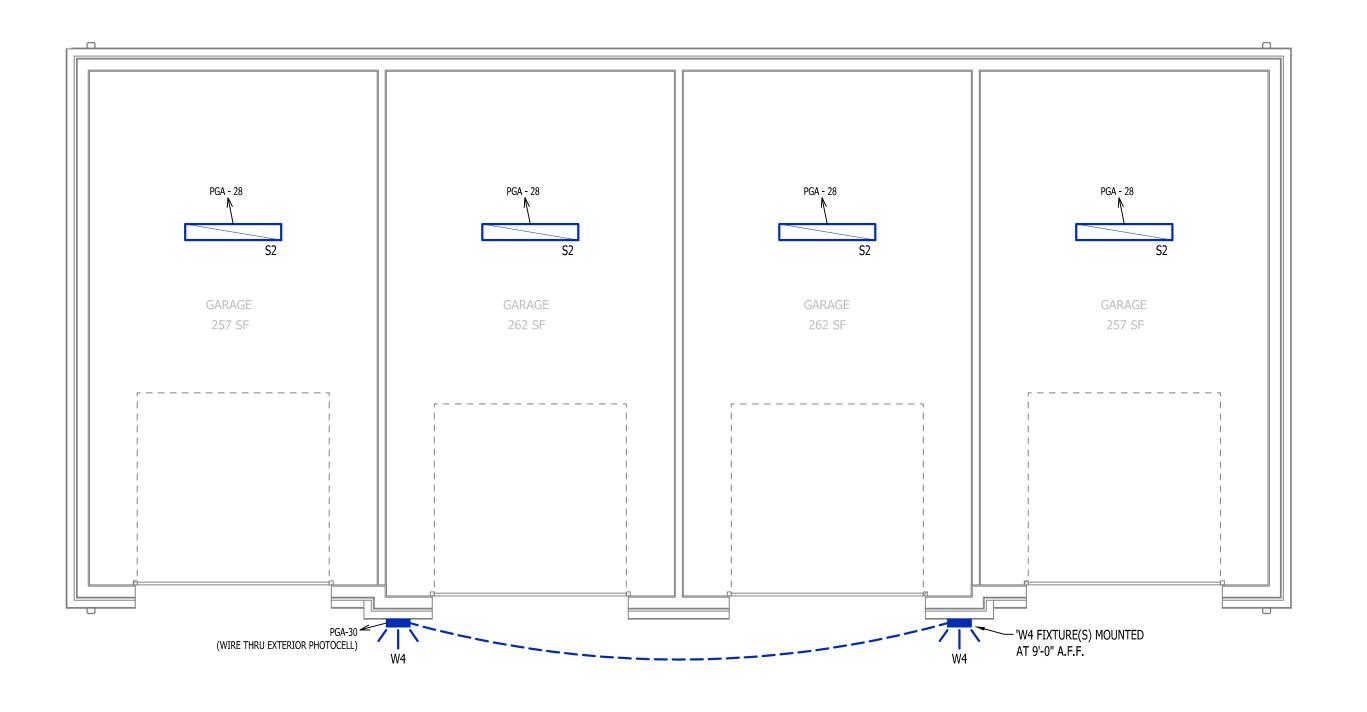
SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES. OCCUPANCY/VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY.

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. 3. 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"



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

LIGHTING PLAN

CONSTRUCTION
As Noted on Plans Review

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ELECTRICAL PLAN

SHEET NUMBER

E101