GENERAL NOTES - STRUCTURAL

1. General Information

- A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding
- B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural. mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction
- before proceeding. C. All design and construction work for this project shall conform to the requirements of the following governing design codes: 1.) International Building Code (IBC 2018) as amended by the city of
- Lee's Summit, Missouri 2.) Minimum Design Loads for Buildings and Other Structures (ASCE7-16)
- 3.) Building Code Requirements for Structural Concrete (ACI 318-14) 4.) North American Specification for the Design of Cold-Formed Steel Structural
- Members (AISI S100-07/S1-1) 5.) National Design Specification (NDS) for Wood Constriction with 2015
- Supplements (ANSI/AWC NDS-2015) 6.) Special Design Provisions for Wind and Seismic (AWC SDPWS-2015) D. These drawings are for this specific project and no other use is authorized.

2. Structural Load Design Criteria

Α.	Dead Load:	
	Deck Floors	= 35 psf
	Apartment Floors	= 35 psf
	Roofs	= 20 psf
	Stairs	= 40 psf
Β.	Live Load:	
	Public Rooms	= 100 psf
	Stairs	= 100 psf
	Apartment Floors (Private Rooms)	= 40 psf
	Corridors	= 100 psf
	Storage Areas	= 125 psf
	Decks/Balconies (Private)	= 60 psf
	Decks/Balconies (Public)	= 100 psf
	Roofs	= 20 psf
C.	Snow:	
	Pg = 20 psf, Ce = 1.0	
	Pf = 14 psf, Pm = 20 psf	
	ls = 1.0, Cs = 1.0, Ct = 1.0	
	Drift & unbalanced snow leads nor A	

- Drift & unbalanced snow loads per ASCE/SEI 7-10 D. Lateral Loads: 1.) Wind V(ult) = 109 mph, Exposure B, GCpi = +/-0.18Design wind pressures to be used for the deisgn of exterior components and cladding material son the designated zones of walls and roof structures shall be
- per section 30.7 and table 30.7-2 of ASCE/SEI 7-16. Tabulated pressures shall be multiplied by effective are
- reduction factors, exposure adjustment factors, and topographic factors where applicable. 2.) Seismic: Ss = 0.099, S1 = 0.068. le = 1.0
- Sds=0.086; Sd1=0.068; Site Classification C Seismic Design Category B
- Basic Seismic Force-Resisting System: A.17- Light-Framed Walls with Shear Panels of All Other Materials
- R=2, Omega = 2 1/2, Cd = 2, V=0.043W E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the

2018 International Building Code.

3. Concrete

- A. All concrete for foundations (walls, grade beams, footings and piers) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days. but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- B. All concrete for garage slab on grade shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
- All concrete for interior flatwork (except garage slab on grade) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.40 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only). D. All concrete for exterior flatwork shall have a minimum design compressive
- strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for
- improved workability. F. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash,
- provided the total minimum cementitious content is not reduced. G. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-
- draining granular material as prescribed by the project soils report. H. Basement foundation walls shall be braced at the base and top of wall by the contractor until the slab on grade at the base and the floor framing/slab at the top of wall is complete and the concrete has achieved 75% of the design strength. The contractor is responsible for engineering and design of the wall bracing, if required.
- All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
- J. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1.
- K. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement. L. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at
- construction joints for shear transfer. M. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel

be included).

- A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform
- to the requirements of ASTM A185. B. Clear minimum coverage of concrete over reinforcing steel shall be as follows: 1.) Concrete placed against earth: 3"
- 2.) Formed concrete against earth: 2" 3.) Slabs:
- 1-1/2" 4.) Beams or Columns: 5.) Other All coverage shall be nominal bar diameter minimum.
- . All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise). At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size
- and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars. E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice
- top bars near midspan and splice bottom bars over supports, unless noted otherwise. F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at
- each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively. G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and
- coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 (by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade. H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum
- accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for
- drainage unless noted otherwise. Allow 1 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to

5. Structural Steel

- A. All structural steel beams and columns shall be ASTM A992, grade 50 ste miscellaneous steel shall be ASTM A36 grade steel (except at moment c where plates shall be ASTM A572, grade 50). Hollow Structural Sections be ASTM A500, grade B. Fabrication and erection shall be in accordance AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges"
- 13th Edition of the AISC Steel Construction Manual. 3. All welding shall conform to the recommendations of the AWS. All exterior steel and connections, and brick relief angles shall be hot-dip D. All bolts not otherwise specified shall be 3/4" diameter high strength (AST All bolts shall be fully pretensioned. All beam connections shall be design AISC Manual of Steel Construction "Framed Beam Connections" for the in reactions or at least 0.3 x beam total shear capacity, Vn/Omega, shown i maximum total uniform load tables, whichever is greater; and, shall account
- eccentricity when the bolt line is more than 2" from the center of the support All connections must be two bolt minimum. E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless no Washers of minimum size and thickness for the given anchor diameter in the AISC Steel Construction Manual shall be provided at every column ar

Washers shall have a standard size hole for the anchor bolt.

6. Post Installed Anchors

- A. Post-installed anchors shall be used only where specified on the drawing approved in writing by the engineer of record. See drawings for anchor d spacing and embedment. Performance values of the anchors shall be of specified products using appropriate design procedures and/or standards required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post installed anchors. The contractor shall coordinate an on-site meeting with the post installed anchor manufacturer field representative to educate the construction
- team on the anchor installation guidelines and requirements. B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and gualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
- Adhesive anchors used in cracked and uncracked concrete shall have been tested and gualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions. D. Mechanical anchors used in solid grouted masonry shall have been tested and
- qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions. . Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.
- F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

7. Foundations

- A. The soil investigation was prepared by CFS Engineers, the report number is 20-5555 and their telephone number is 913-627-9040.
- B. Spread footings, grade beams, and retaining walls are designed to bear on insitu clay or engineered clay fill capable of safely sustaining 2,500 psf. . Retaining walls are designed for an active lateral load of 55 pcf equivalent
- fluid pressure. D. Basement walls are designed for an at rest lateral load of 80 pcf equivalent fluid
- pressure. See General Note 3H for wall bracing requirements. E. Contractor shall provide for dewatering at excavations from either surface water or
- F. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense. G. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled.
- H. Moisture content in soils beneath building locations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, ecompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.
- 8. Timber and Wood Framing
- A. Quality and construction of wood framing members and their fasteners for load supporting purposes not otherwise indicated on the drawings shall be in accordance with the nternational Building Code. B. All studs and top and bottom plates shall be Douglas Fir No. 2 grade visually graded lumber, with an allowable fiber stress in bending of 900 psi minimum and an elastic modulus 11. Copyright and Disclaimer of 1,600,000psi unless noted otherwise. All joist, truss members, and headers to be No. grade 2 (min.) unless noted otherwise. All lumber for exterior decks and balconies shall be treated Southern Yellow Pine No. 2 grade.
- . Blocking of stud bearing walls and shear walls shall be solid, matching sheathing joints. D. Joist blocking and bridging shall be solid wood or cross bridging of either wood or metal straps. Spacing, in any case, shall not exceed 8'-0". E. Wood members and sheathing shall be fastened with number and size of fasteners not less than that set forth in Table 2304.9.1 of the International Building Code. Floor sheathing shall be APA rated tongue and groove Sturd-I-Floor, exposure 1, glued and nailed with 8d ring shank nails or # 10 screws at 12" on center to all supports. Sheathing of shear walls or roof diaphragms shall be edge nailed with 8d common nails at 6" on center and nailed to intermediate framing and/or blocking members with 8d common nails at 12" on center unless otherwise noted on the drawings. All floor sheathing shall be installed with 1/8 inch
- gaps between panel edges and end joints. Sill plates shall be bolted to concrete walls or steel beams with 1/2" diameter bolts at 32" on
- center. Sill plates in direct contact with concrete or masonry shall be treated lumber. G. Joist hangers shall have Uniform Building Code approval and shall be equal to Simpson Strong Tie "LUS" for wood application and "LB" for steel weld-on application.
- H. Service condition dry with moisture content at or below 19% in service. I. Laminated veneer lumber (LVL) shall have an allowable flexural stress (Fb) of
- 2,600 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi. J. Parallel Strand Lumber (PSL) shall have an allowable flexural stress (Fb) of 2,900
- psi (reduced by size factor) and an elastic modulus (E) of 2,000,000 psi. K. Pre-engineered wood trusses shall be designed in accordance with the Truss Plate Institute's national design standard for metal-plate connected wood truss construction (ANSI/TPI-1 latest edition). Trusses shall be designed and manufactured by an authorized member of the Wood Truss Council of America (WTCA). Truss design shall conform to specified codes, allowable stress increases, deflection limitations and other applicable
- criteria of the governing code. L. Shop drawings showing complete erection and fabrication details and calculations (including connections) shall be submitted to the project architect/engineer for review prior to fabrication and/or erection. Such drawings shall bear the seal of a professional engineer, registered in the state of the project location. Shop drawings shall also be submitted to the
- local government controlling agency when requested by that agency. M. All trusses shall be securely braced both during erection and permanently, as indicated on the approved truss design drawings and in accordance with TPI's commentary and recommendations for handling, installing and bracing metal-plate connected wood trusses (HIB-91, booklet) and the latest edition of ANSI/TPI-1. N. The truss manufacturer shall supply all hardware and fasteners for joining truss
- members together and fastening truss members to their supports. Metal connector plates shall be manufactured by a member of the Wood Truss Council of America (WTCA) and shall be 20 gauge minimum. Connector plates shall meet or exceed ASTM A653, grade 33, with ASTM A924 galvanized coating designation G60. O. Shipment, handling, and erection of trusses shall be by experienced, qualified
- persons and shall be performed in a manner so as not to endanger life or property. Apparent truss damage shall be reported to the truss manufacturer for evaluation prior to erection. Cutting or alteration of trusses is not permitted. P. Contractor shall coordinate truss layout for openings and penetrations required by

	other trades including for plumbing, H	
Q.	Pre-engineered floor truss and I-Joist	design load and deflection criteria are
	follows:	
	Top Chord Dead Load	= 20psf
	Top Chord Live Load	= Per General Note 2A
	Bottom Chord Dead Load	= 5psf
	Allowable Total Load Deflection	= L/360
	Allowable Live Load Deflection	= L/480; 1⁄2" maximum
R.	Pre-engineered roof truss design load	and deflection criteria are as follows:
	Top Chord Dead Load	= 15psf
	Top Chord Live Load	= 20psf

TOP CHOID LIVE LOAD	– zupsi
Bottom Chord Dead Load	= 10psf
Allowable Total Load Deflection	= L/300
Allowable Live Load Deflection	= L/360
Roof trusses shall be designed fo	r wind uplift loads indicated
Components & Cladding Wind Lo	ads Diagram.

9. Shop Drawing Review

			_			
teel and all connections	A.	Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the		ES.	TIMATED BUILDIN	NG MOVEMENT
s (HSS) shall æ with " in the	_	ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.		FLOOR	ACCUMULATIVE WOOD SHRINKAGE	HEIGHT OF BRICK
	В.	Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:				
galvanized.		1.) Review each submission for conformance with the means, methods,				
TM A325-N). Ined per the		techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole				
indicated		responsibility of the GC.		ROOF	0.7"	20'
in the ount for		2.) Review and approve each submission.3.) Stamp each submission as approved.		2nd FLOOR	0.25"	10'
port.	С.	Bob D. Campbell and Company, Inc. shall assume that no submission comprises			0.35"	10'
oted otherwise.		a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.				
n Table 14-2 of	D.	Bob D. Campbell and Company, Inc. shall review shop drawings and related				
inchor bolt.		materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment				
		unrequired material or submissions without GC approval stamp.		Wood Shrink	<u>kage Notes:</u>	
	E.	Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working			bell & Company takes no t will occur in a wood stru	
gs unless		days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.			ectural, mechanical, elect	
diameter,		1.) Concrete mix designs and material certificates including admixtures and			ne analysis provided belo	
btained for s as		compounds applied to the concrete after placement. 2.) Reinforcing steel shop drawings including erection drawings and			2304.3.3 and indicate the to accommodate the mov	
hall have		2.) Remoting steel shop drawings including election drawings and bending details. Bar list will not be reviewed for correct quantities			sult in a failure of the imp	

- bending details. Bar list will not be reviewed for correct quantities. 3.) Construction and control joint plans and/or elevations. 4.) Miscellaneous anchors shown on the structural drawings.
- 5.) Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings need not be submitted.

10. Statement of Structural Special Inspections

- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the
- International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
- B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
- C. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building
- official and structural engineer. D. The special inspector shall submit a final signed report stating that the work
- requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code. E. The following inspections and tests are required with the frequency (continuous or
- periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections. 1. Shop Fabrication – pre-engineered wood trusses per Section 1704.2.5 unless TPI
- certified shop
- 2. Concrete Construction per Section 1705.3 and Table 1705.3
 - a. Reinforcing Steel Placement b. Reinforcing Steel Welding
 - c. Cast in Place Anchors d. Post Installed Anchors
 - e. Design Mix Verification
- f. Concrete Sampling and Testing g. Concrete Placement
- h. Concrete Curing 3. Verification of Soils per Table 1705.6
- 4. Wood Lateral System (periodic) a. Wood shearwalls (include sheathing, rim board and bottom plate
- attachments) b. Portal frames
- c. Shear wall and portal frame holdowns d. Shear wall tension rod system
- 5. Wood Gravity Framing and Placement (adjust frequency of random sampling where indicated as required) a. Heavy timber/SCL/glulam beams and supports (periodic)
- b. Headers and jambs (random sampling) c. Bearing walls (random sampling)
- d. Connector/hardware installation (random sampling) e. Floor and roof trusses (random sampling)

- A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for
- coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner. B. I, Clark A. Basinger, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.

- r the act the g sysi values outing
- below can result in a failure of the impacted components with
- Estimated values are based on the following moisture content a. At install (MC) = 19%
- b. At equilibrium (EMC) = 8% Reference wall sections on this sheet for estimated cumilativ

The following is a list of recommendations to minimize potent related to wood shrinkage and veneer expansion. Veneer ex

- and variable depending on sun exposure. The majority of woo in the first 24 months of occupancy with minor seasonal varia 1. MEP System Considerations
- Postpone MEP installation as long as possible to allo load to be applied--allowing construction gaps to close
- Provide oversized and vertically slotted holes at pipe penetration and notches. Refer to typical notching an wall detail for additional considerations on size limita
- c. Plumbing pipe and electrical conduit joints and connections shall be flexible and allow for
- expansion/contraction to prevent a rigid assembly. d. Hangers and necessary rigid connections shall be a
- prior to completion of construction or closing of wall/o e. Horizontal vent penetrations through exterior veneers with double flashing.
- All sheet metal vertical down spouts shall have inter Roof drains shall utilize adjustable fittings that are ad roof finish sheathing elevation at the completion of c
- then shall be adjusted as required to maintain proper 2. Architectural System Considerations a. At stucco, EIFS and thin set veneer systems provide
- horizontal expansion joints, slip joints with appropriat flashing, this includes transitions between changes b. At brick and stone veneers provide veneers ties des
- to accommodate differential movement. c. Refer to architectural window and door head and sill;
- parapet; and horizontal material changes for specific horizontal gap requirements between materials. 3. Construction Tolerance Considerations
- a. All studs shall be cut level, square and tight to top and bottom plates to reduce any additional shortening of the
- building due to nesting. b. All wood structural panels on the walls shall have a 1/2" relief gap at each floor level to reduce the potential for bulging. c. All floor sheathing shall have 1/8" gaps around all four sides
- at time of install to allow for expannison. d. All shearwall holdown shall be checked and retighten immediately prior to sheathing of the walls. If a continuous rod system is utilized for holdowns or uniform uplift anchors, the take-up devise pins shall be
- verified to have been pulled prior to sheathing the walls. 4. Material Storage and Protection a. All stored material shall remain covered and elevated from the elements to reduce the potential for an increase in
- moisture content. b. Do not allow water to pond on the floor sheathing. Provide drain holes in the floor sheathing as required to relieve any water that might temporary pond.
- 5. Post Occupancy Consideration a. Recommend a review of roof drains every 3 months for the first 24 months of occupancy and then annually and adjusted as needed. b. Recommend a review of vertical joints at exterior doors, windows and

original joint fails.

at changes in materials. Caulked as needed as shrinkage occurs and

LEGEND:

- SPAN DIRECTION OF DECK FOOTING MARK - SEE SCHEDULE ON SHEET S001
 - BEAM OR HEADER PER SCHEDULE ON S002
- (A#-#) (A#-#u) SJ
 - SAW JOINT PER 1/S200 **CONSTRUCTION JOINT PER 2/S200**
 - SHEAR WALL PER SCHEDULE ON SHEET S003
- CJ SWX

- d in Building

	NAIL	ING SCHEDULE (REFER	TO NOTES #1 and #2)
	No. CONNECTION	ATTACHMENTS	(REF NOTE #3 and #4)
	1 JOIST TO SILL OR GIRDER	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
	2 BRIDGING TO JOIST	2- 3" x 0.131" NAILS-TOENAIL EACH END	2-8d NAILS-TOENAIL EACH
IVE SION	3 SOLE PLATE TO JOIST OR BLOCKING	3" x 0.131" NAILS AT 8"o.c TYPICAL FACE NAIL 4-3" x 0.131" NAILS AT 6"o.c. BRACED WALL PANELS	16d BOX NAILSZ AT 16"o.c. MAX. FACE NAILING 3-16d BOX NAILS AT 16"o.c. BRACED WALL PANEL
	4 TOP PLATE TO STUD	3- 3" x 0.131" NAILS-END NAIL	2-16d NAILS-END NAIL
	5 STUD TO SOLE PLATE	4- 3" x 0.131" NAILS-TOENAIL OR 3- 3" x 0.131" NAILS-END NAIL	4-8d NAILS-TOENAIL OR 2- NAILS-END NAIL
	6 DOUBLE STUDS	3" x 0.131" NAILS AT 8"o.cFACE NAIL	16d BOX NAILS AT 24"o.c. N FACE NAIL
	7 DOUBLED TOP PLATES	3" x 0.131" NAILS AT 12"o.cFACE NAIL	16d BOX NAILS AT 16"o.c. I FACE NAIL
	8 DOUBLE TOP PLATE LAPS AND INTERSECTIONS	12-3" x 0.131" NAILS	8-16d NAILS
	9 BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-3" x 0.131" NAILS -TOENAIL	3-8d NAILS-TOENAIL
	10 RIM JOIST TO TOP PLATE	3" x 0.131" NAILS AT 6"o.cTOENAIL	8d NAILS AT 6"o.c. MAXTO
	11 TOP PLATE LAPS AND INTERSECTIONS	3- 3" x 0.131" NAILS-FACE NAIL	2-16d NAILS-FACE NAIL
	12 CONTINUOUS HEADER, TWO PIECES	3" x 0.131" NAILS AT 10"o.c. ALONG EACH EDGE	16d NAILS AT 16"o.c. MAX. ALONG EACH EDGE-TOEN
	13 CEILING JOISTS TO PLATE	5- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
	14 CONTINUOUS HEADER TO STUD	4- 3" x 0.131" NAILS-TOENAIL	4-8d NAILS-TOENAIL
	15 CEILING JOISTS, LAPS OVER PARTITIONS	4- 3" x 0.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL
	16 CEILING JOISTS TO PARALLEL RAFTERS	4- 3" x 0.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL
	17 RAFTER TO PLATE	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
	18 1" BRACE TO EACH STUD AND PLATE	2- 3" x 0.131" NAILS-FACE NAIL	2-8d NAILS-FACE NAIL
	19 BUILT-UP CORNER AND MULTIPLE STUDS	3" x 0.131" NAILS AT 16"o.c.	16d NAILS AT 24"o.c. MAX.
	20 BUILT-UP GIRDER AND BEAMS	3" x 0.131" NAILS AT 24"o.c. FACE NAILED TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES 3- 3" x 0.131" NAILS AT ENDS AND EACH SPLICE	20d NAILS AT 32"o.c. MAX. AND BOTTOM, STAGGERE 0PPSITE SIDES. 2-20d NAI ENDS AND EACH SPLICE
	21 BUILT-UP LAMINATED VENEER LUMBER BEAMS	3" x 0.131" NAILS AT 6"o.c. TOP AND BOTTOM ALONG EDGE	16d NAILS AT 12"o.c. TOP A BOTTOM ALONG EDGE
	22 2" PLANKING	4- 3" x 0.131" NAILS AT EACH SUPPORT	16d NAILS AT EACH SUPPO
	23 RIM BOARD TO TRUSS	2- 3" x 0.131" FACE NAILS (IT/IB @ EA. TRUSS)	2- 10d NAILS - FACE NAILS (IT/IB @ EA. TRUSS)
	24 BUILD-UP STUD-PACK COLUMNS	REFER TO DETAIL 3/S003	REFER TO DETAIL 3/S003
	24 COLUMNS NOTES: 1.) ALL NAILS SHALL BE AS NO ALTERNATE PROVIDED BY E	TED UNLESS OTHERWISE SPECIFIED ON S	FRUCTURAL DRAWINGS OF

— DIAMETER IN INCHES — NAIL LENGTH

— QUANITY 4.) ALL NAILS NOTED AS 8d, 10d, 16d, ETC. SHALL BE COMMON NAILS UNLESS NOTED BOX.

ST	STRUCTURAL DECK & SLAB SCHEDULE				
MARK	DESCRIPTION				
T-1	COMPOSITE DECKING PER ARCHITECTURAL DRAWINGS/SPECIFICATIONS				
FD-1	³ / ₄ " GYPCRETE ATOP 23/32" T&G PLYWOOD SHEATHING. SHEATHING SHALL BE GLUED AND NAILED W/ 8d RING SHANK NAILS OR #10 SCREWS @ 6"o.c. @ EDGES & 12"o.c. AT FIELD.				
RD-1	19/32" PLYWOOD SHEATHING ATTACHED WITH 8d NAILS @ 6"o.c. AT EDGES & 12"o.c. AT FIELD.				
SOG-1	4" CONCRETE SLAB REINFORCED W/ 6x6-W2.9xW2.9 WWF ATOP VAPOR BARRIER PER GENERAL NOTES ATOP 4" OPEN GRADED STONE ATOP 12" OF SUBGRADE TREATED WITH 5% PORTLAND CEMENT (DRY UNIT WEIGHT)				

1. CD = COMPOSITE/CONCRETE DECK TYPE

2. FD = FLOOR DECK TYPE 3. NCD = NON-COMPOSITE DECK TYPE

4. RD = ROOF DECK TYPE 5. SOG = SLAB-ON-GRADE TYPE

6. REFER TO NOTE 10.T ON SHEET S0.01 FOR FIRE - RETERDANT TREAD SHEATHING REQUIREMENTS. PROVIDE 1" DEEP TOOLED CONTROL JOINT (TRANSVERSE DIRECTION) @ MID-SPAN OF SINGLE BAY

STRUCTURAL ABBREVIATIONS

	011(001				
@ & Ø ADTL AFF ALT ARCH BLDG B/ BM BOTT BRG C CD-# CJ CJP CL CMU COL CONC CONC CONN CONT COORD COV, CVR DBL DET DIA DIM DL DET DIA DIM DL DWG EA EF EJ EL, ELEV EMBED ENGR EOD EOR EOS EQ EQUIP EW EXP EXT	AT AND ROUND, DIAMETER ADDITIONAL ABOVE FINISHED FLOOR ALTERNATE ARCHITECTURAL BUILDING BOTTOM OF BEAM BOTTOM BEARING CAMBER CONCRETE DECK TYPE CONSTRUCTION/CONTROL JOIN COMPLETE JOINT PENETRATION CENTERLINE CONCRETE MASONRY UNIT COLUMN CONCRETE CONCRETE CONCRETE CONNECTION CONTINUOUS COORDINATE COVER DOUBLE DETAIL DIAMETER DIMENSION DEAD LOAD DRAWING EACH EACH FACE EXPANSION JOINT ELEVATION EMBEDMENT, EMBEDDED ENGINEER EDGE OF DECK ENGINEER OF RECORD EDGE OF SLAB EQUAL EQUIPMENT EACH WAY EXPANSION EXTERIOR	GA GALV GEN GR HORIZ HSS IF INFO INT JST JT K KSF KSI LBS, # Ld LL LLH LLV LONG LSLT LTWT M MAX MECH MIN MSC MSRY MTL NF NS NTS NW OC OF OPNG OPP OVS P AF PC PCF PEMB	GAGE GALVANIZE(D) GENERAL GRADE HORIZONTAL HOLLOW STRUCTURAL SECTION INSIDE FACE INFORMATION INTERIOR JOIST JOINT KIPS (1000 LBS) KIPS PER SQUARE FOOT KIPS PER SQUARE FOOT KIPS PER SQUARE INCH POUNDS DEVELOPMENT LENGTH LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LONG LEG VERTICAL LONG SLOTTED HOLE TRANSVERSE LIGHTWEIGHT MOMENT FORCE MAXIMUM MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS MASONRY METAL NEAR FACE NEAR SIDE NOT TO SCALE NORMAL WEIGHT ON CENTER OUTSIDE FACE OPENING OPPOSITE OVERSIZED HOLE AXIAL FORCE POWDER ACTUATED FASTENER PRECAST POUNDS PER CUBIC FOOT PRE-ENGINEERED METAL BUILDING	RAD RD-# REF REINF REQD REV RLL RTU SC SCHED SECT SHT SJ SL SOG SOG-# SPEC SPRT SQ SSLT STIF STIR STL STRUCT T/ THRU TOS TRANS TYP UNO V VERT W/ W/0 WF WL WP WWF	RADIUS ROOF DECK TYPE REFERENCE REINFORCEMENT REQUIRED REVISION ROOF LIVE LOAD ROOF TOP UNIT SLIP CRITICAL SCHEDULE(D) SECTION SHEET SIMILAR SAW JOINT SNOW LOAD SLAB-ON-GRADE SLAB-ON-GRADE SLAB-ON-GRADE TYPE SPACING SPECIFICATION SUPPORT SQUARE STAINLESS STEEL SHORT-SLOTTED HOLE TRANSVERSE STANDARD STIFFENER STIFFENER STIRRUP STEEL STRUCTURE, STRUCTURAL TOP OF THROUGH TOP OF STEEL, TOP OF SLAB TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE SHEAR FORCE VERTICAL WITH WITHOUT WIDE FLANGE WIND LOAD WORK POINT WELDED WIRE FABRIC
EXTG, EXIST	EXISTING FLOOR DECK TYPE	PERP	PERPENDICULAR		
FD-#		PL			
FDN	FOUNDATION	PLF	POUNDS PER LINEAR FOOT		
FF	FAR FACE	PJP	PARTIAL JOINT PENETRATION		
FIN	FINISH	PSF	POUNDS PER SQUARE FOOT		
FLR	FLOOR	PSI	POUNDS PER SQUARE INCH		
FC		OTV			

QTY

QUANTITY

BALCONY OR @ THIRD POINTS OF DOUBLE BAY BALCONY. FILL JOINT W/ SEALANT

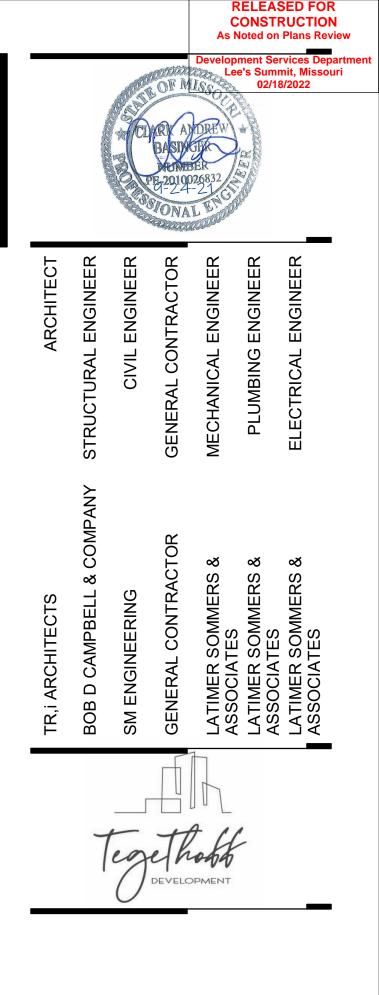
UPSET BEAM OR HEADER PER SCHEDULE ON S002

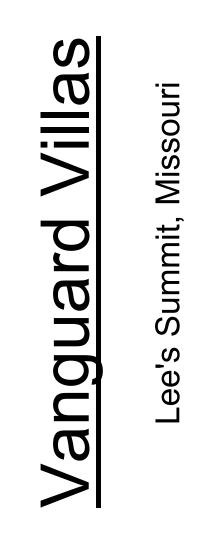
FAR SIDE

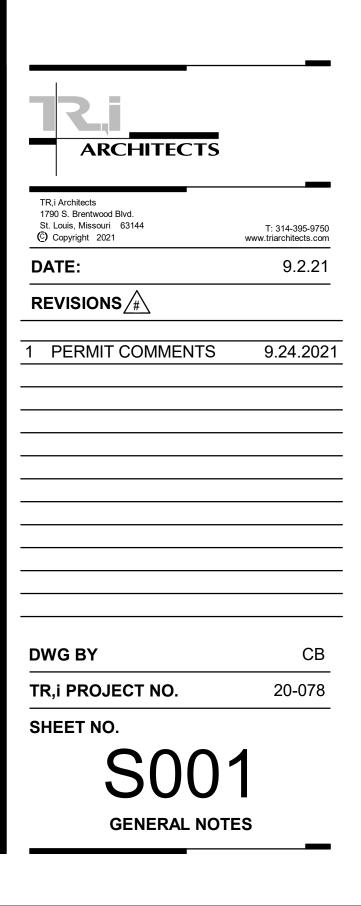
FOOTING FIELD VERIFY

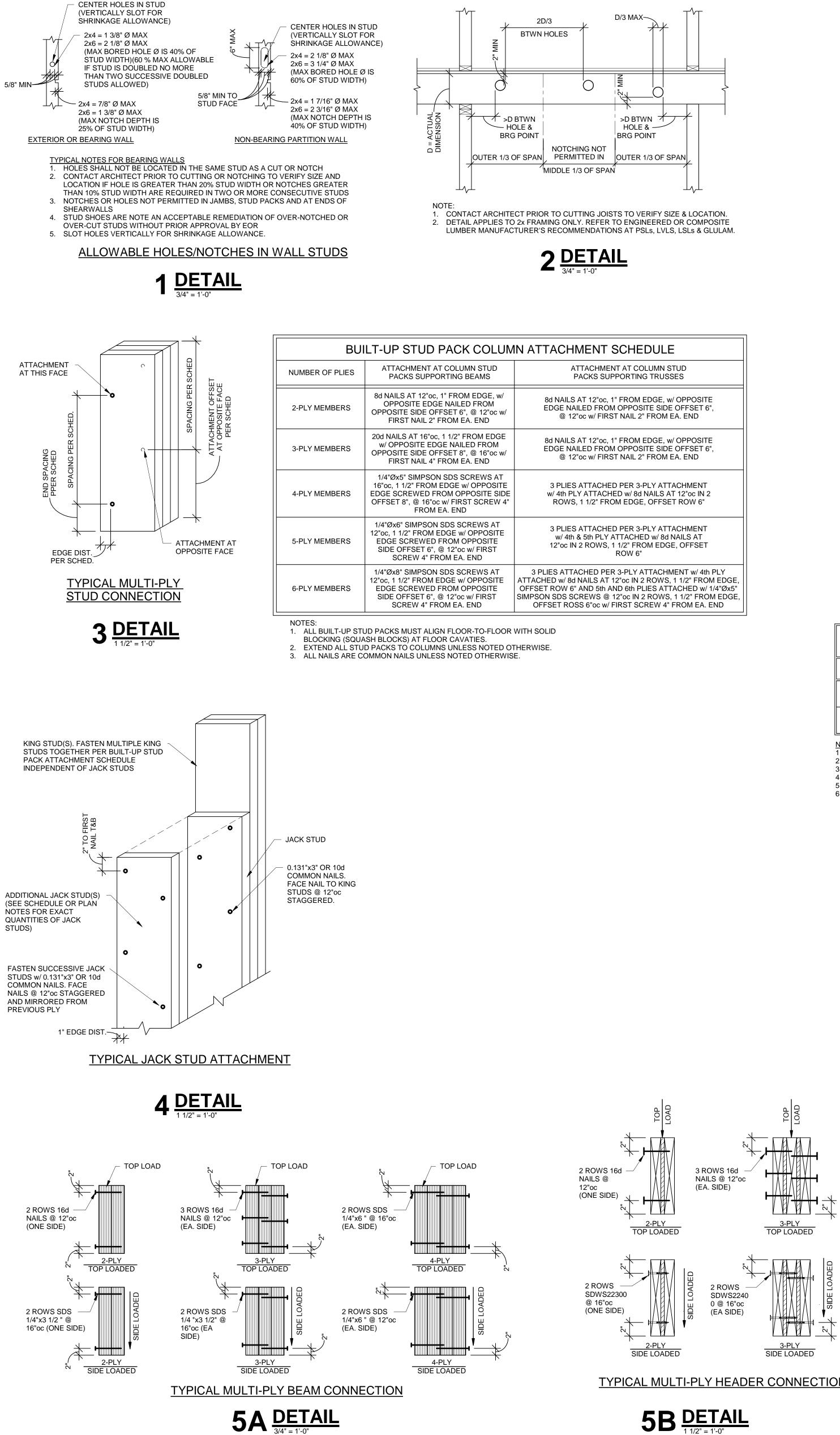
FS FTG

FV









NT SCHEDULE
CHMENT AT COLUMN STUD (S SUPPORTING TRUSSES
2"oc, 1" FROM EDGE, w/ OPPOSITE FROM OPPOSITE SIDE OFFSET 6", // FIRST NAIL 2" FROM EA. END
2"oc, 1" FROM EDGE, w/ OPPOSITE FROM OPPOSITE SIDE OFFSET 6", // FIRST NAIL 2" FROM EA. END
ACHED PER 3-PLY ATTACHMENT

WOOD STUD BEARING WALL SCHEDULE

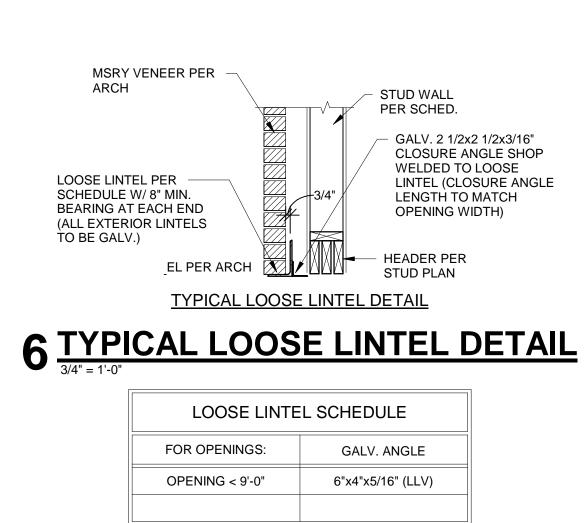
TYPE	1st FLOOR WALLS (2nd FLOOR FRAMING)	2nd FLOOR WALLS (ROOF FRAMING)		NOTES	
EXTERIOR 2x6 @ 16"oc		2x6 @ 16"oc			
DEMISING	(2) 2x4 @ 16"oc	2x4 @ 16"oc		PROVIDE 2x BLOCKING AT MID HEIGHT BTWN EA. STUD	

<u>NOTES:</u> I. PROVIDE 2x BLOCKING AT MID HEIGHT (5'-0" MAX) AT ALL LOAD BEARING WALLS NOT SHEATHED ON BOTH SIDES. 2. ALL STUDS TO BE No. 2 GRADE U.N.O.

3. RE: 3/S003 FOR NAILING OF MULTIPLE STUDS. 4. REFER TO ARCH/MEP DRAWING FOR LOCATIONS OF FURRED OUT WALLS TO ACCOMODATE PLUMBING OR MEP ITEMS.

5. REFER TO FRAMING PLANS AND ARCH PLANS FOR LEVEL(S) AT WHICH WALLS OCCUR. 6. STACK/ALIGN WALL STUDS FROM FLOOR TO FLOOR AT ALL EXTERIOR WALLS.

TYPICAL MULTI-PLY HEADER CONNECTION



JOIST/BEAM/TRUSS HANGER SCHEDULE					
JOIST/BEAM/TRUSS SIZE	HANGER SIZE	NOTES			
2x10	LUS28 HU210	AT CORRIDOR & BALCONY * AT SKEWED CONDITIONS			
2x12	LUS210	AT CORRIDOR			
(2) 2x12	LUS210-2	AT CORRIDOR			
18" TRUSS FACE MOUNT TO UPSET BEAM	LUS410 *HHUS419	* AT SKEWED CONDITIONS			

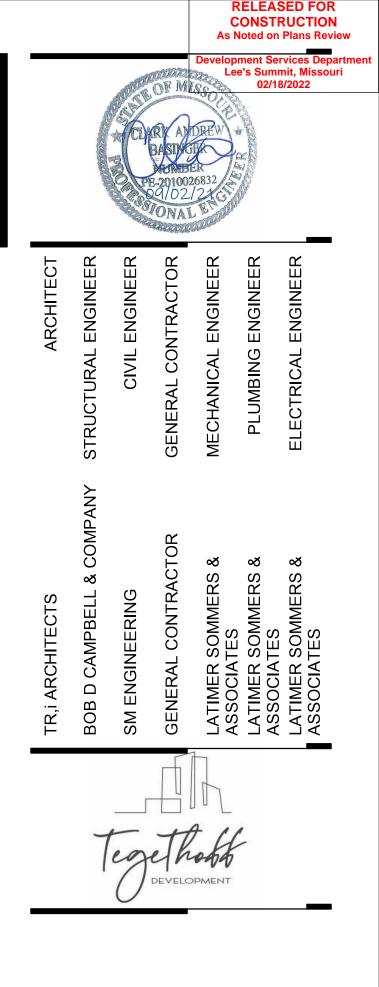
NOTES: 1. HANGERS APPLY TO ALL LOCATIONS WHERE NOT OTHERWISE SPECIFIED IN DETAIL OR PLAN NOTE

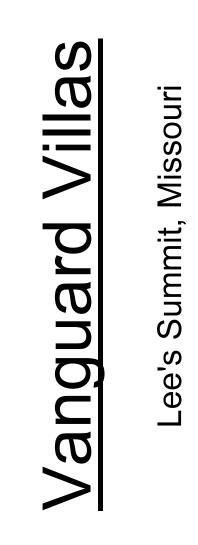
ROOF TRUSS HOLDOWN SCHEDULE

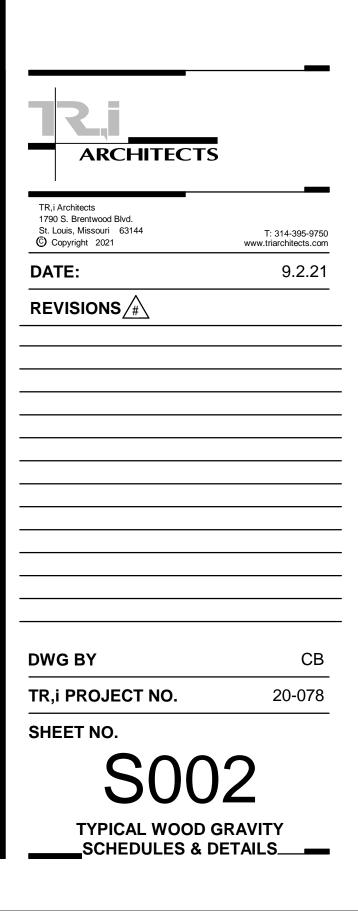
TRUSS TYPE	SIMPSON STRONG TIE CONNECTION
COMMON/HIP/JACK AND 1-PLY TRUSSES	H2.5A
1-PLY TRUSS PER TRUSS SHOP DWGS GIRDER TRUSS AS NOTED PER PLAN	(2) H2.5A (ONE EACH SIDE)
2-PLY TRUSS PER TRUSS SHOP DWGS GIRDER TRUSS AS NOTED PER PLAN	LGT2
3-PLY TRUSS PER TRUSS SHOP DWGS OR GIRDER TRUSS AS NOTED PER PLAN	LGT3

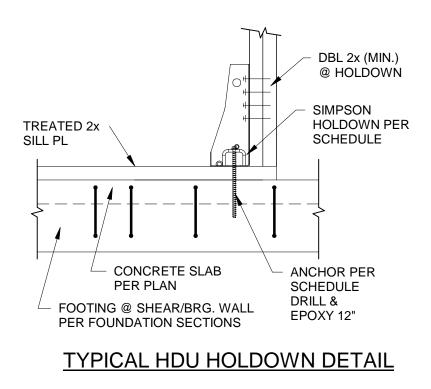
1. GC COORDINATE HOLDOWN CONNECTION TYPE, QUANTITY & LOCATION WITH FINAL ROOF TRUSS SHOP DRAWINGS.

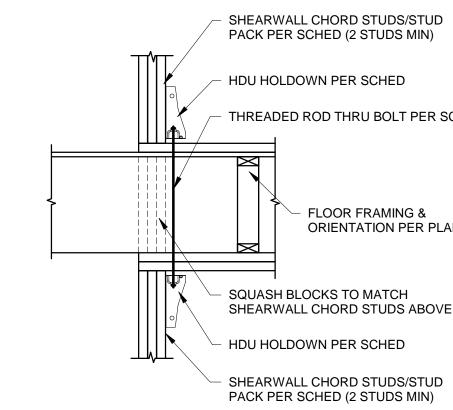
NOTES:











TYPICAL HDU FLOOR TO FLOOR HOLDOWN

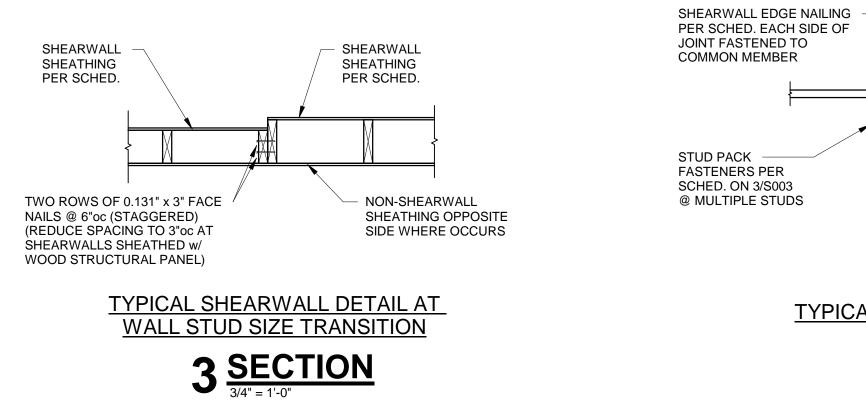


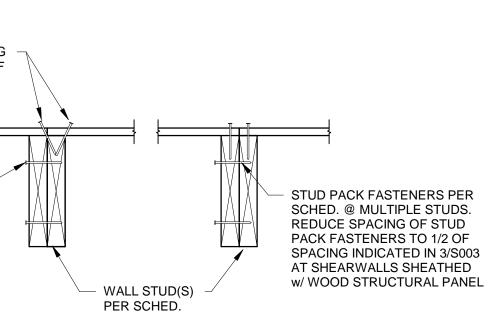


THREADED ROD THRU BOLT PER SCHED

FLOOR FRAMING & ORIENTATION PER PLAN

SHEARWALL CHORD STUDS ABOVE





TYPICAL SHEARWALL SHEATHING JOINT

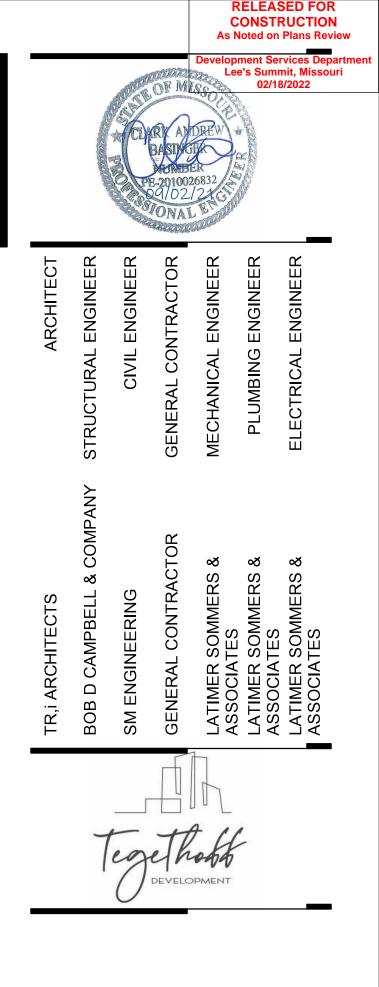


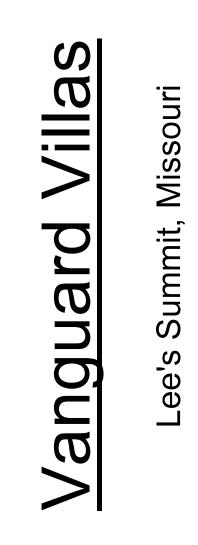
SHEARWALL SCHEDULE

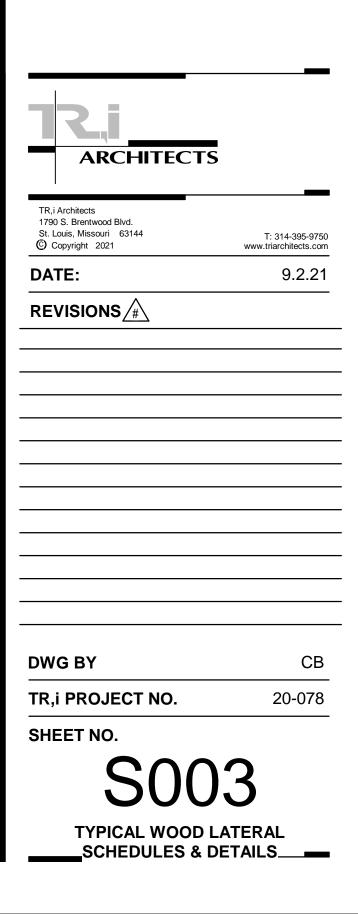
SHEARWALL TYPE		FLOOR			
		1st FLOOR WALLS	2nd FLOOR WALLS		
SW1	SHEATHING & FASTENING	5/8" GYPSUM SHEATHING FINISH SIDE, w/ EDGES BLOCKED 6d NAILS @ 7/7	5/8" GYPSUM SHEATHING FINISH SIDE, w/ EDGES BLOCKED 6d NAILS @ 7/7		
HOLDOWN		HDU2 W/ (2) STUDS	HDU2 W/ (2) STUDS		
SW2	SHEATHING & FASTENING	7/16" OSB SHEATHING AIR SIDE, w/ EDGES BLOCKED 8d NAILS @ 6/12	7/16" OSB SHEATHING AIR SIDE, w/ EDGES BLOCKED 8d NAILS @ 6/12		
	HOLDOWN	HDU4 W/ (2) STUDS	HDU4 W/ (2) STUDS		

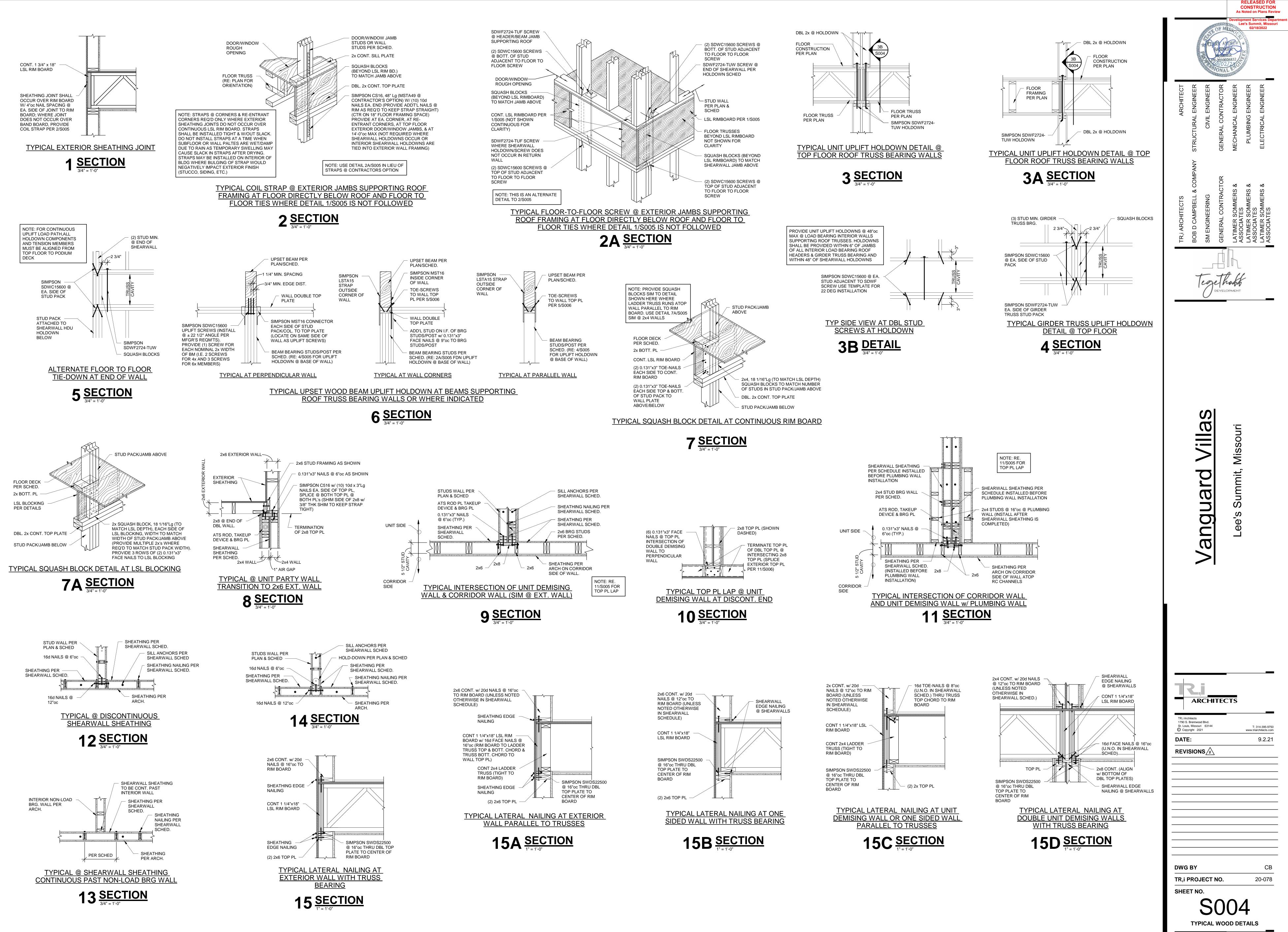
NOTES: 1. NAILING SHALL BE TO ALL STUDS, TOP & BOTTOM PLATES, AND BLOCKING WHERE INDICATED. NAILS FOR GYPSUM SHEATHING ARE COOLER NAILS AND NAILS FOR OSB SHEATHING ARE COMMON NAILS. GYPSUM CAN BE ATTACHED WITH DRYWALL SCREWS AT SAME SPACING INDICATED FOR NAILS. 2. HOLDOWNS PER PLAN & SCHEDULE.

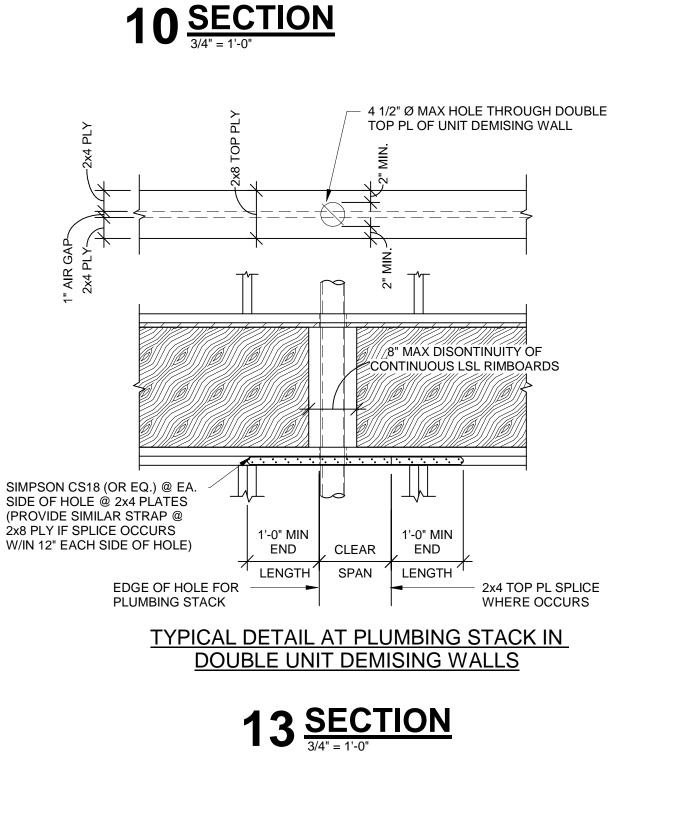
- 3. WHERE THE ENDS OF PERPENDICULAR SHEAR WALLS INTERSECT AND ONLY ON HOLDOWN SHOWN ON PLAN, FASTEN ALL STUDS TOGETHER PER SCHEDULE AND USE LARGER OF THE TWO HOLDOWNS SHOWN IN THE SHEARWALL SCHEDULE. 4. REFER TO HOLDOWN SCHEDULE FOR NUMBER OF STUDS REQ'D AT EA END OF THE
- SHEARWALL 5. NAIL AND STAPLE SPACING SHOWN AS (#/#) INDICATES FASTENERS SPACING IN INCHES AT THE EDGES/FIELD WHERE FIELD IS THE INTERMEDIATE MEMBERS. 6. TYPICAL SILL PLATE TO WOOD (RIM BOARD) SHALL BE 20d NAILS AT 12"oc UNLESS
- NOTED OTHERWISE IN SCHEDULE. TYPICAL WOOD (RIM BOARD) TO TOP PLATES SHALL BE SDWS22500 SCREWS @ 16"oc.
 7. TYPICAL SILL PLATE TO CONCRETE SHALL BE 1/2"Øx6" Lg SIMPSON TITEN HD ANCHOR: AT 2x4 WALLS SPACE AT 24"oc MAX WITH 1/4"x2 1/2"x2 1/2" PLATE WASHER OR
- SIMPSON BPS1/2-3 @ CONTRACTORS OPTION AT 2x6 WALLS SPACE AT 24"oc MAX WITH 1/4"x2 1/2"x4 1/2" PLATE WASHER OR
- SIMPSON BPS1/2-6 @ CONTRACTORS OPTION AT 2x8 WALLS STAGGER AT 18"oc MAX WITH 1/4"x2 1/4"x2 1/2" PLATE WASHER OR SIMPSON BPS1/2-3 @ CONTRACTORS OPTION
- 8. PLATE WASHERS TO MAINTAIN MAX OF 1/2" BETWEEN EDGE OF SILL PLATE AND EDGE OF PLATE WASHER.





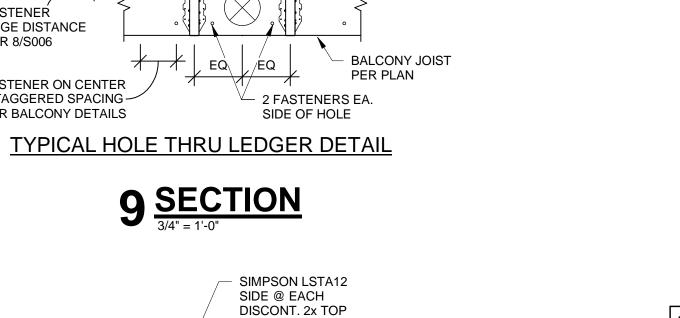




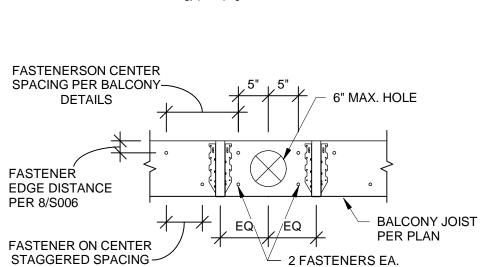


HEADER PER PLAN

TYPICAL SPLICE AT DISCONTINUOUS TOP PL



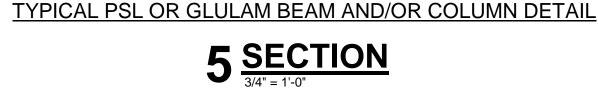
FOR COMPRESSION

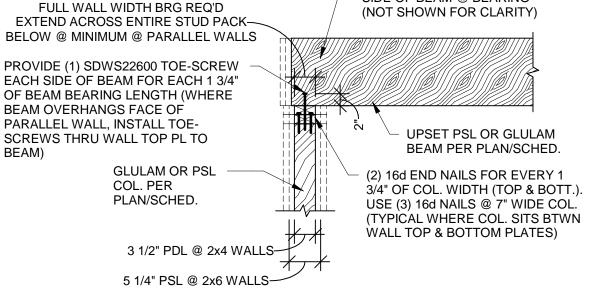


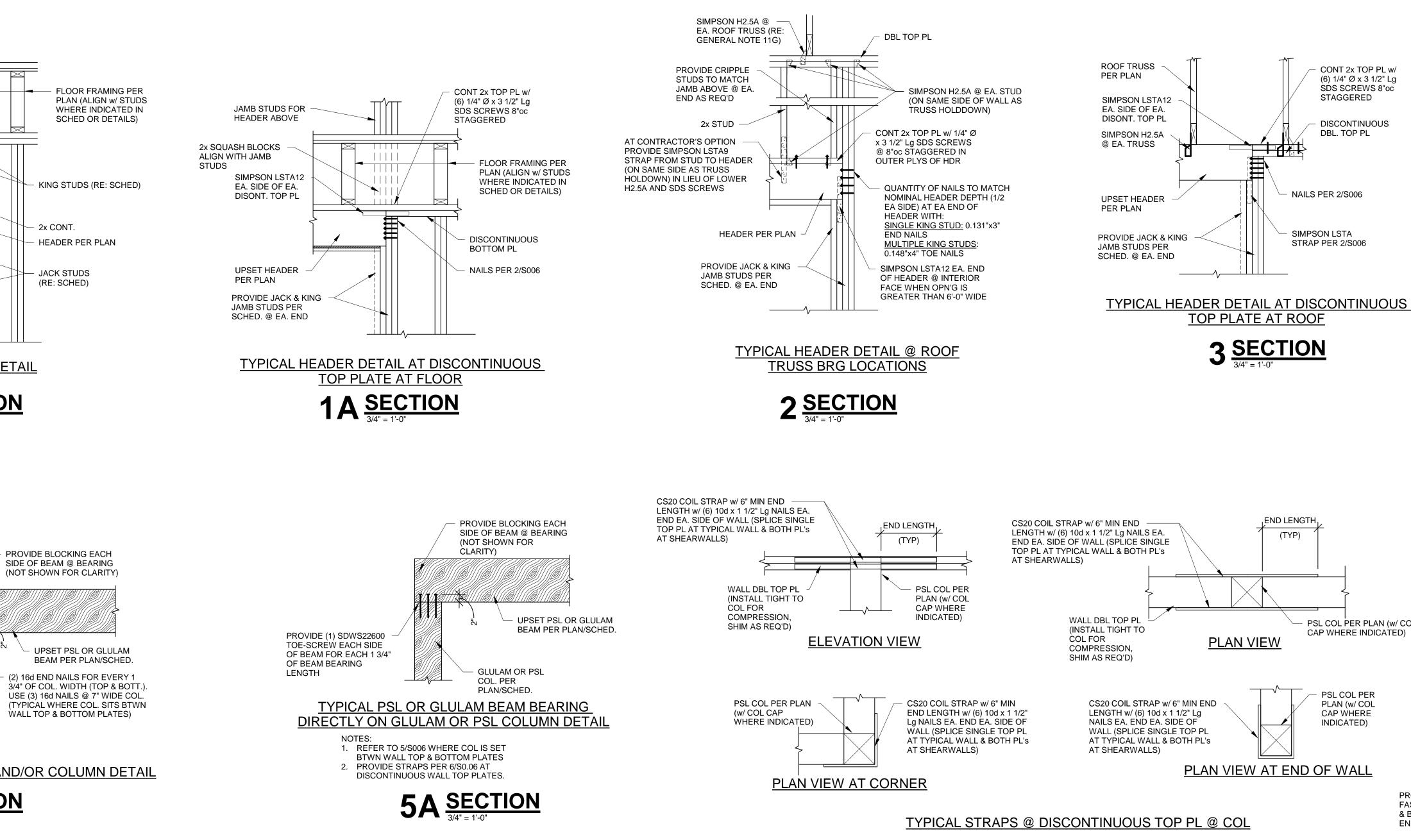
PER BALCONY DETAILS

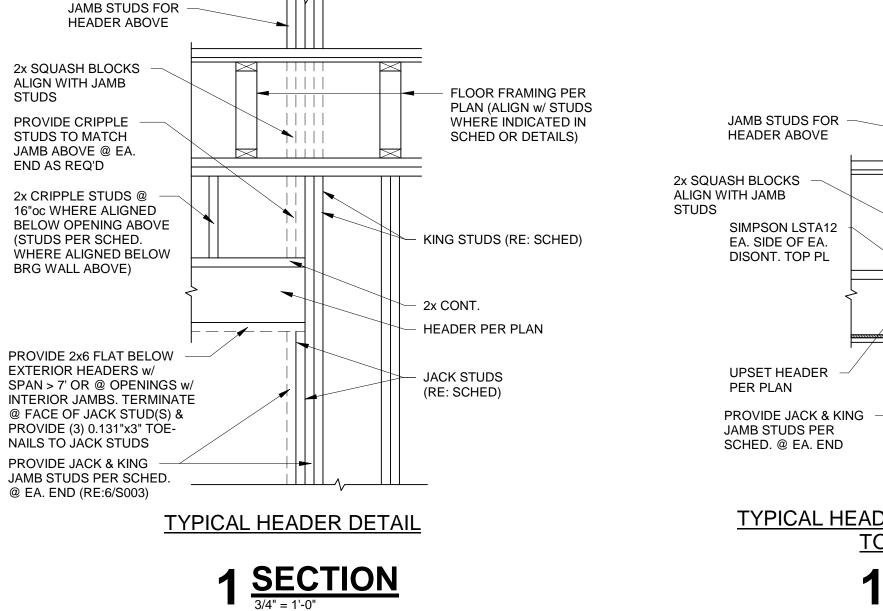
DISCONT.

TOP PL



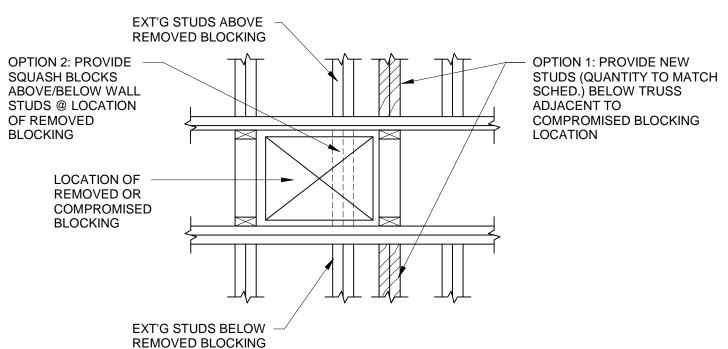


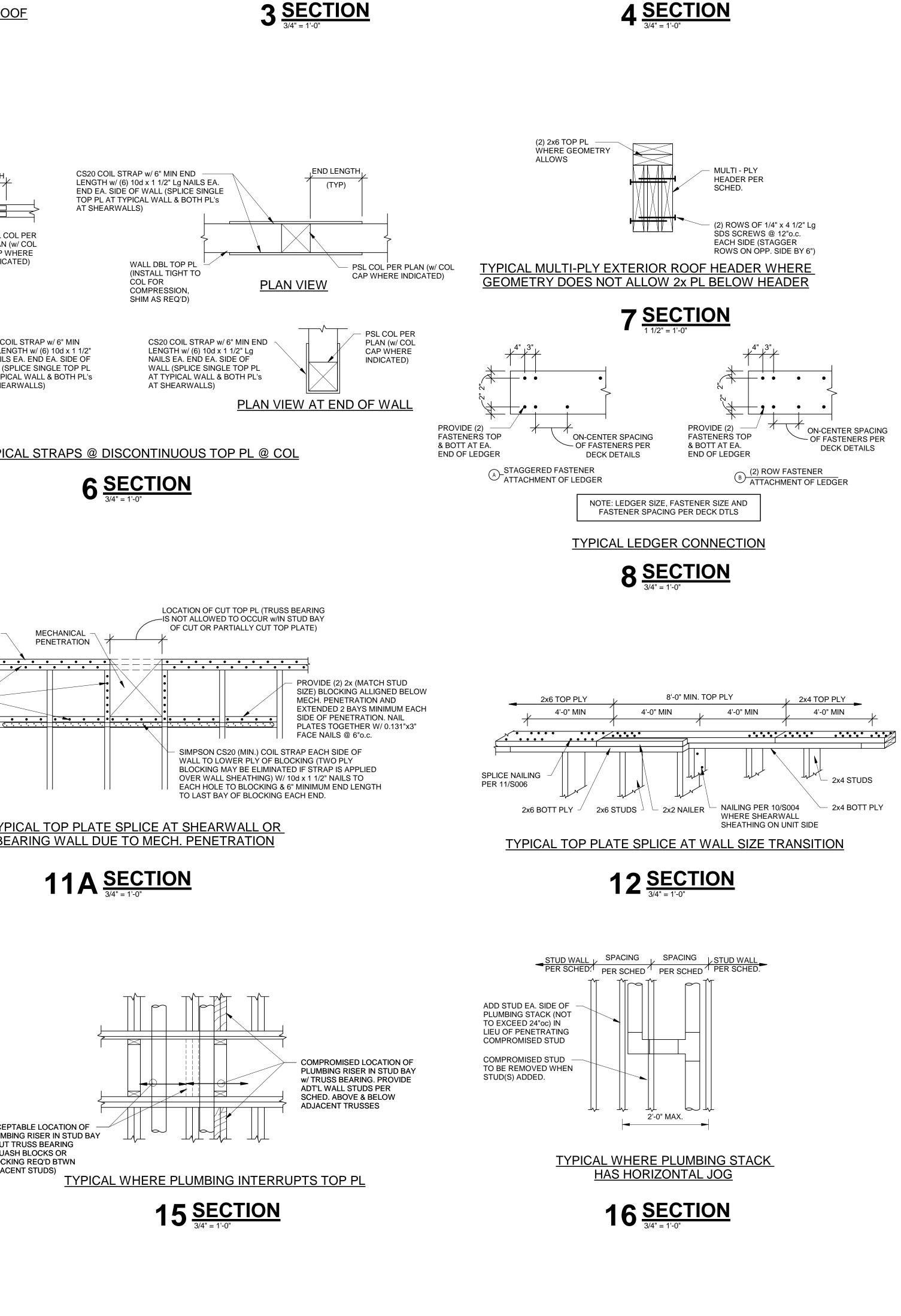






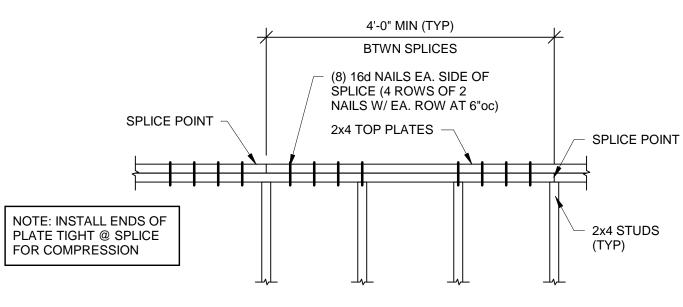
TYPICAL WHERE MECHANICAL DUCT INTERRUPTS LSL

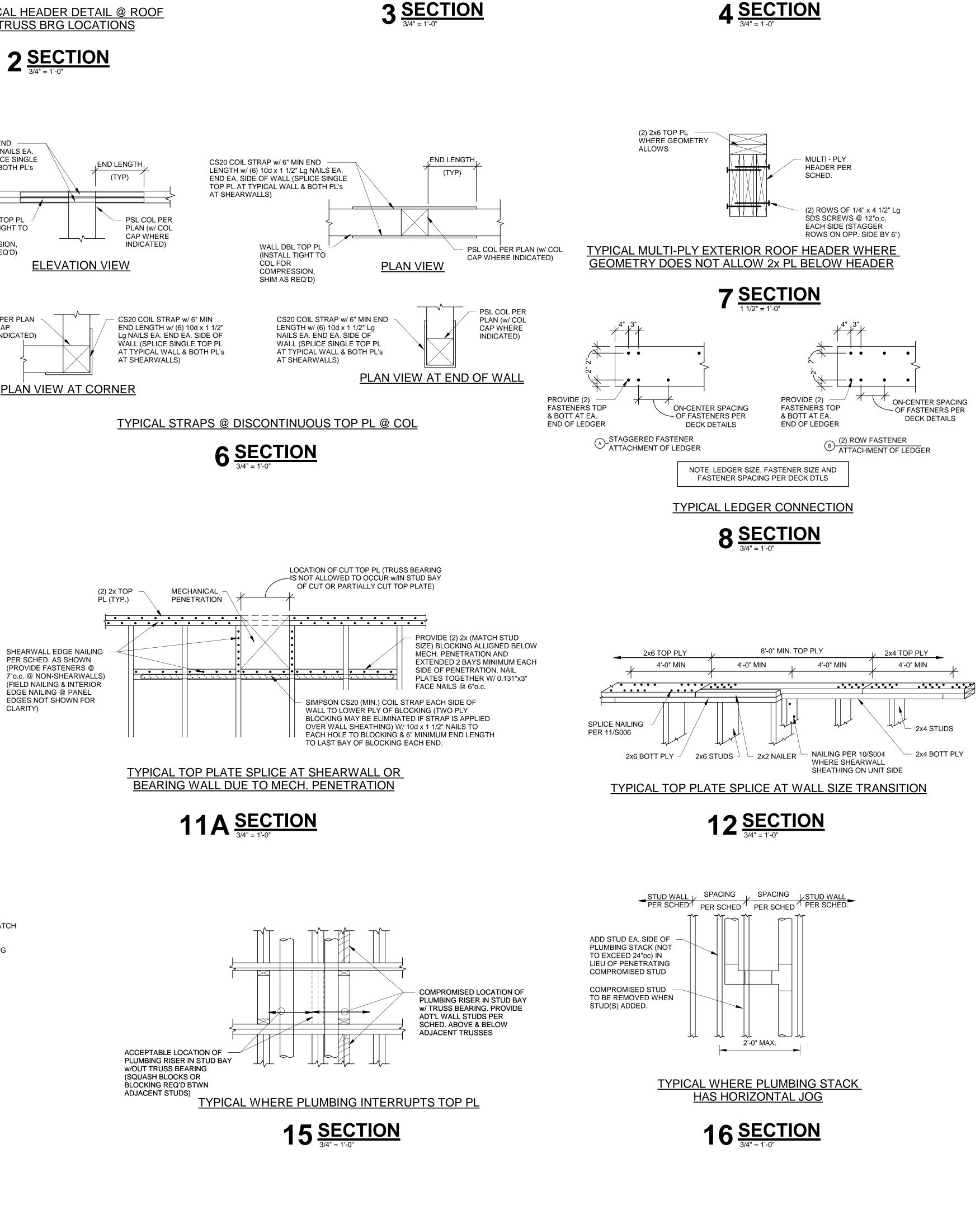


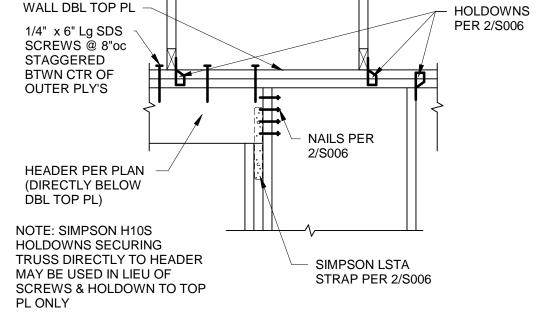


11 SECTION $\frac{3/4"}{1-0"}$

TYPICAL TOP PLATE SPLICE

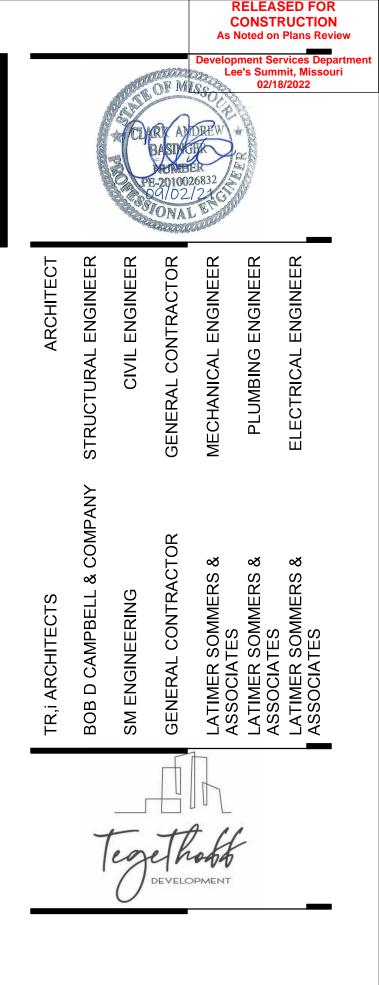


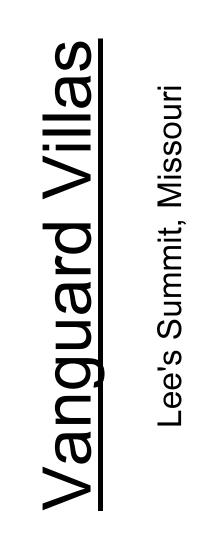


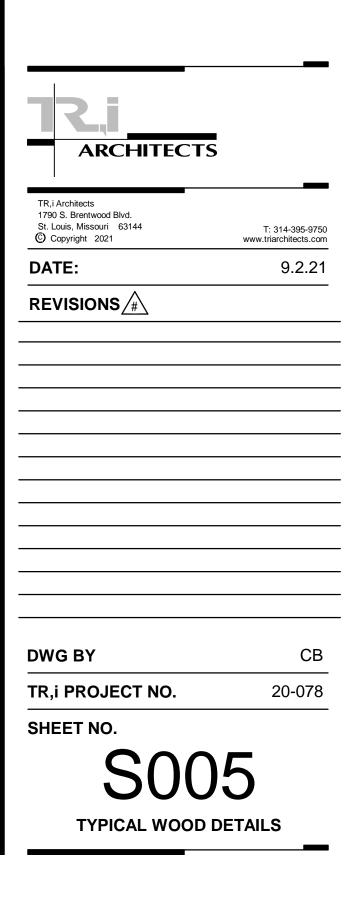


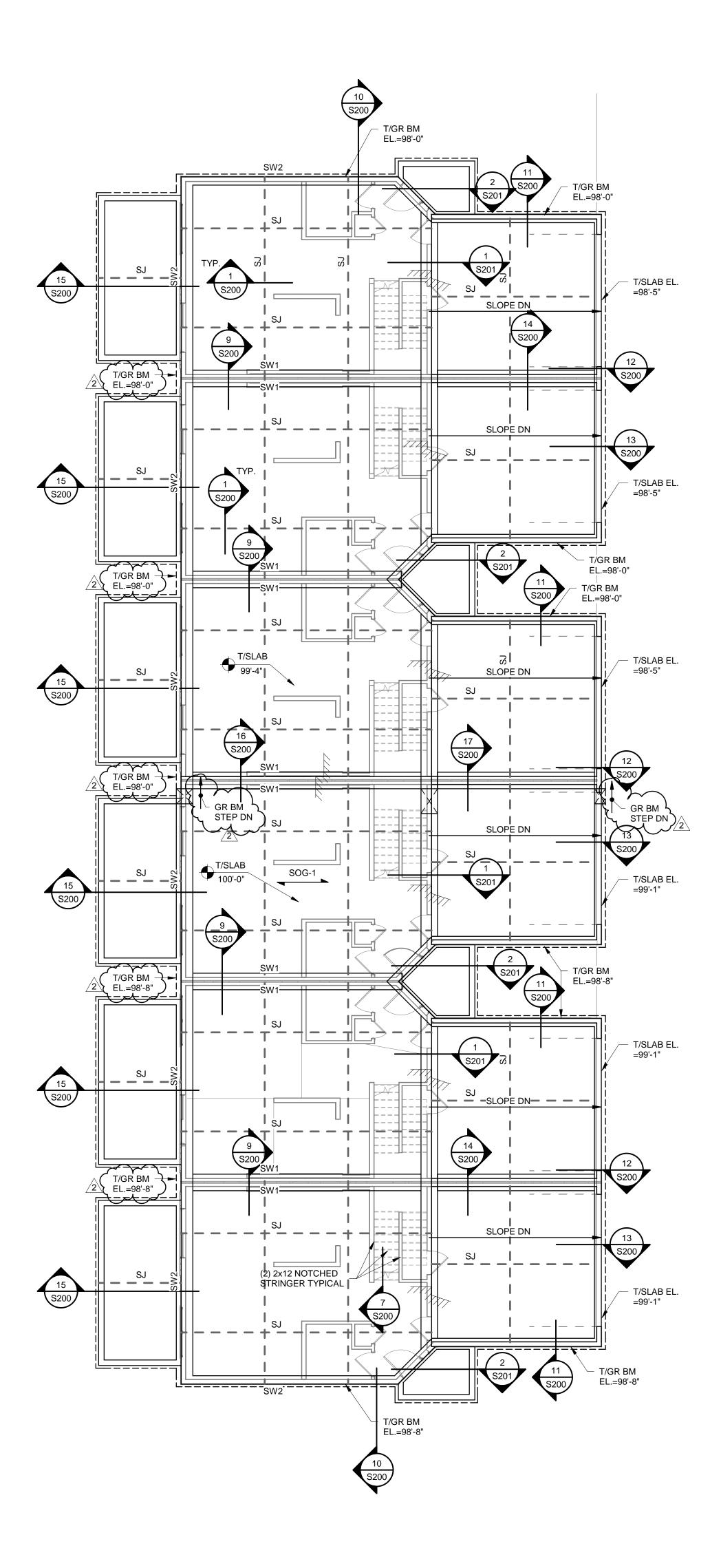
TYPICAL HEADER DETAIL AT ROOF TRUSS BRG

LOCATIONS w/HEADER DIRECTLY BELOW DBL TOP PL

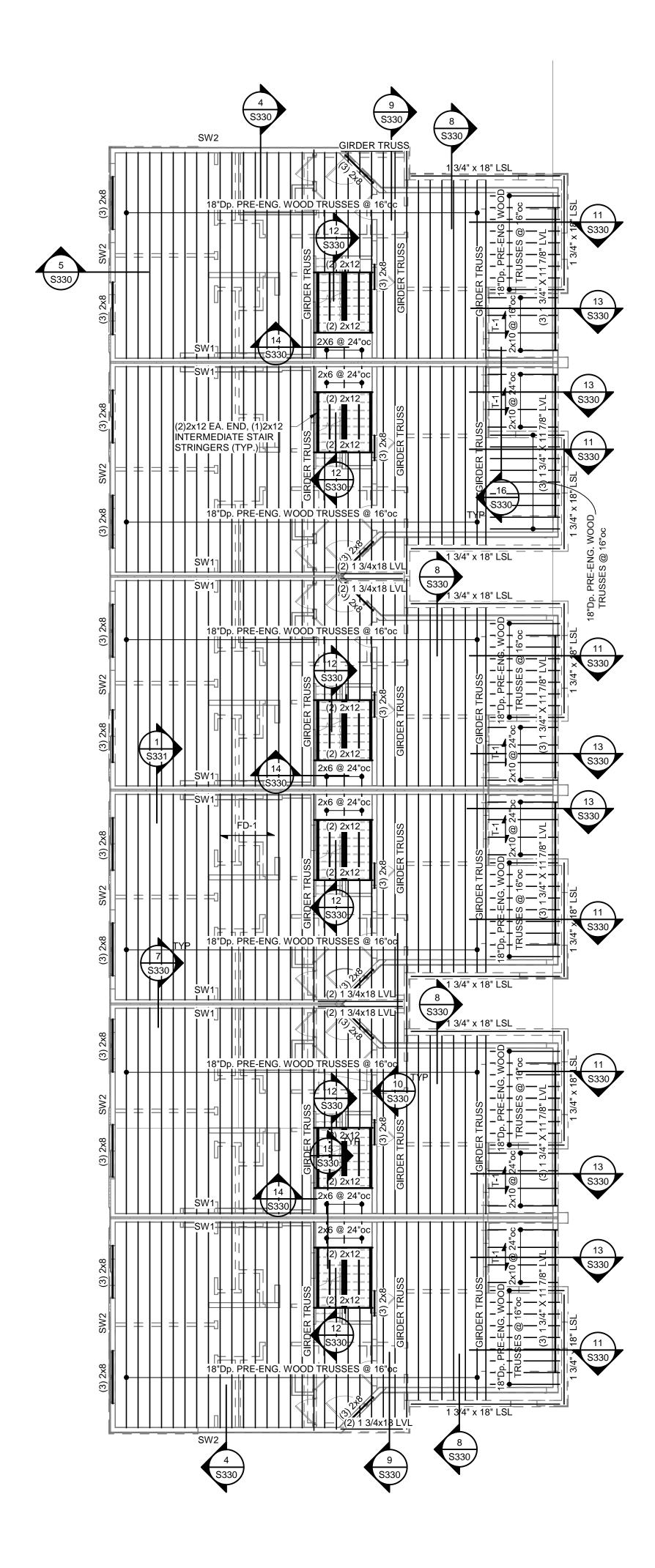




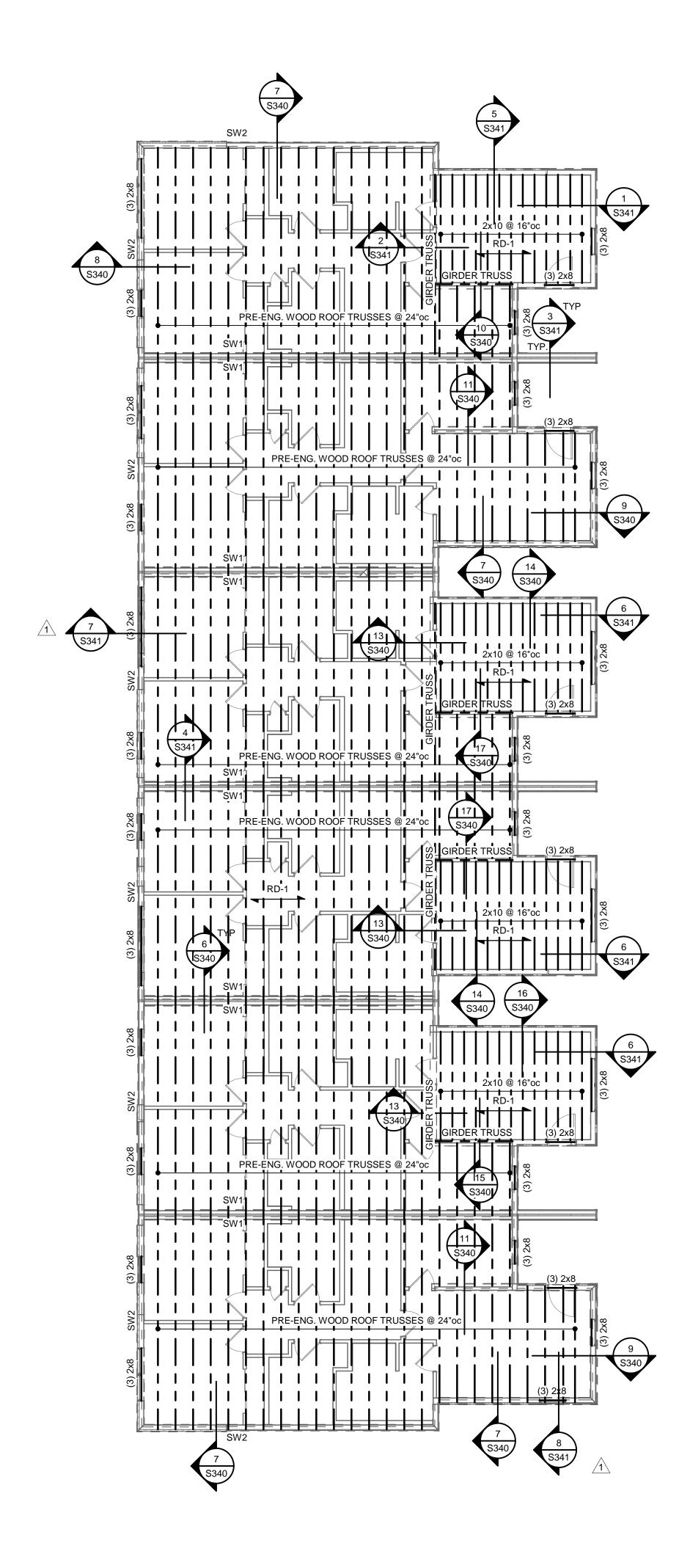




1 GROUP 1 - FOUNDATION PLAN

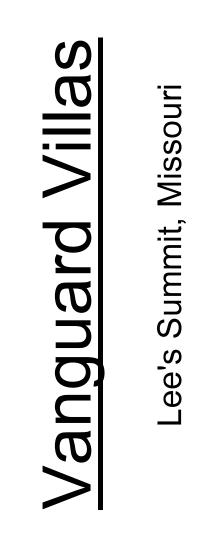


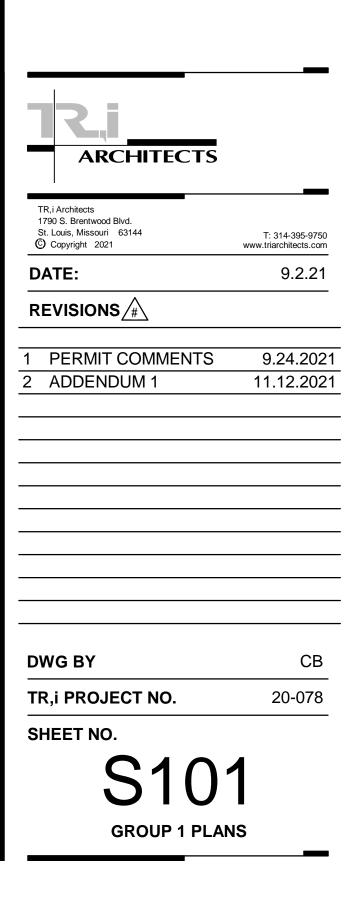
2 GROUP 1 - SECOND FLOOR FRAMING PLAN

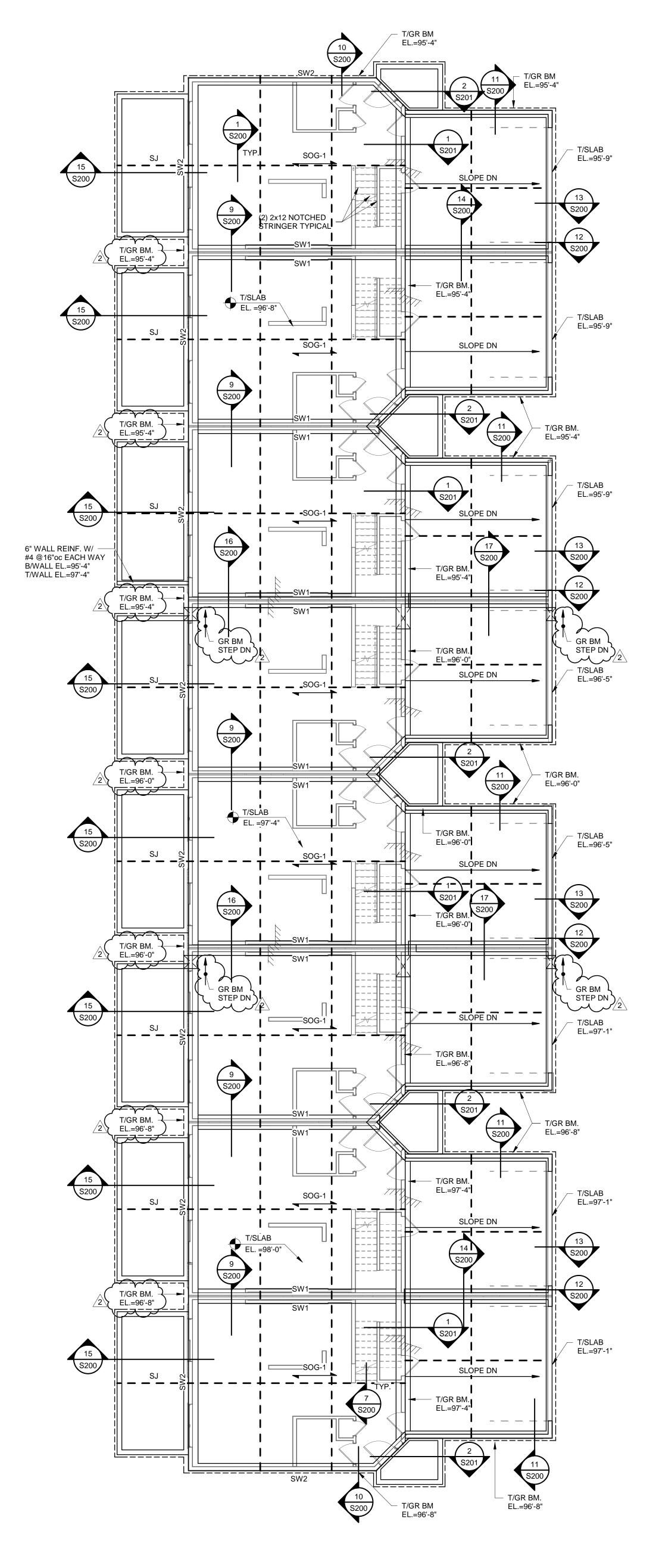


3 GROUP 1 - ROOF FRAMING PLAN

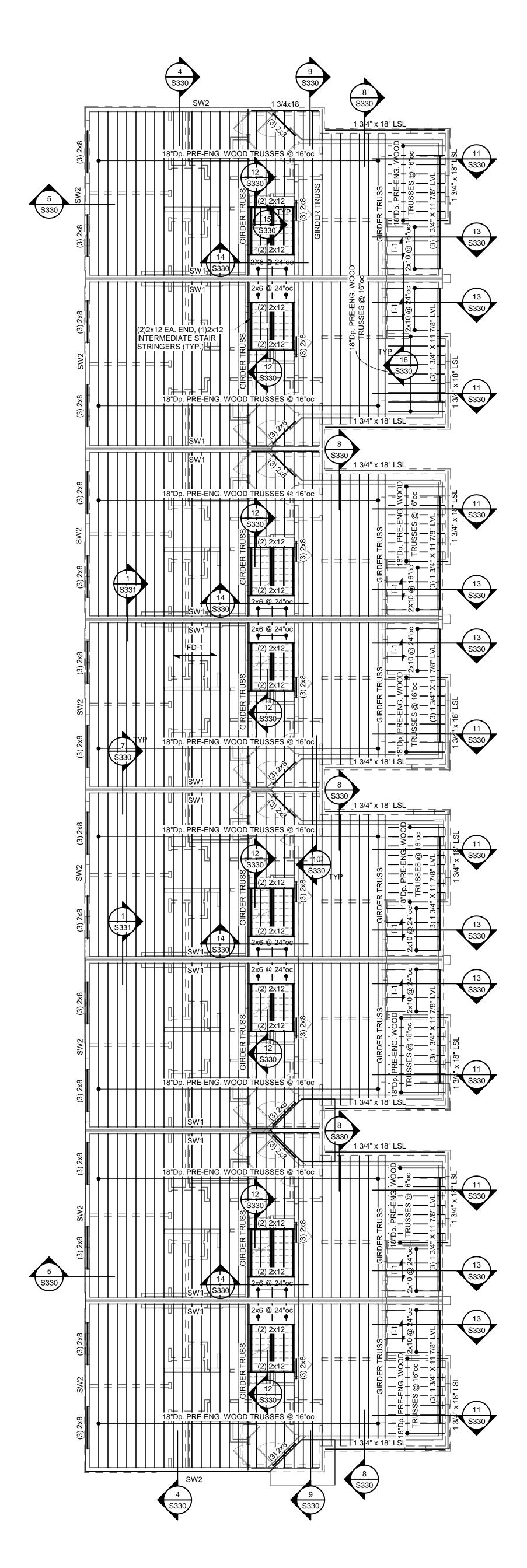




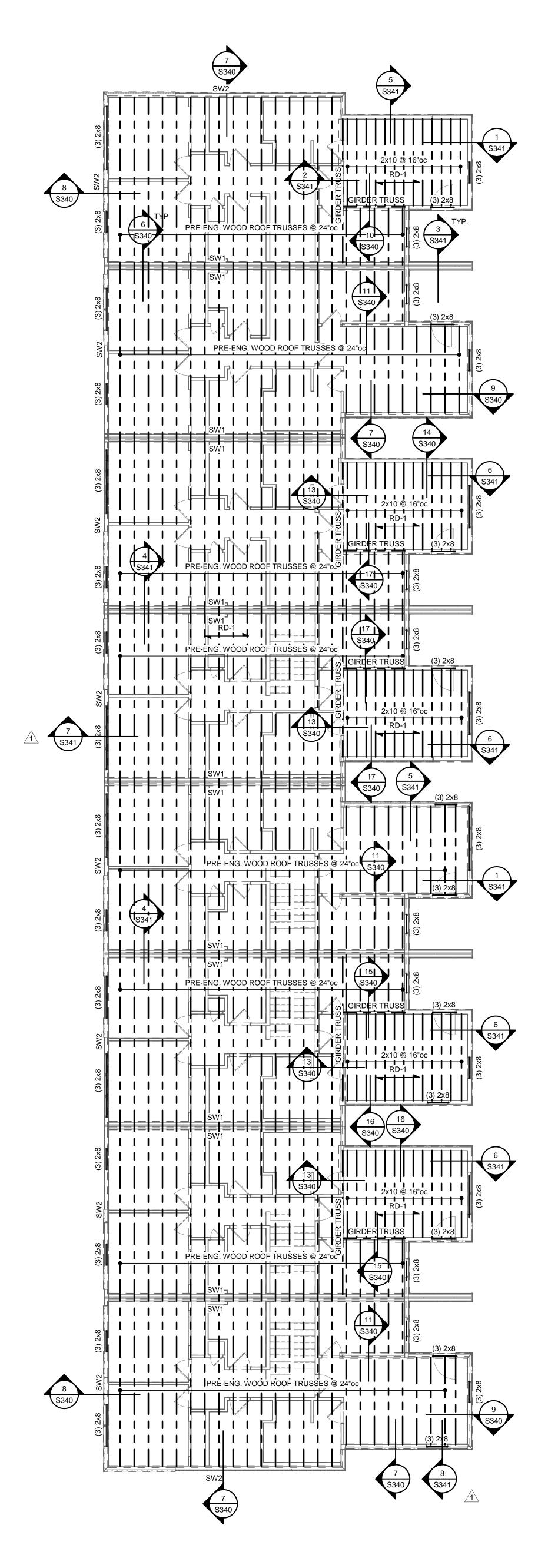




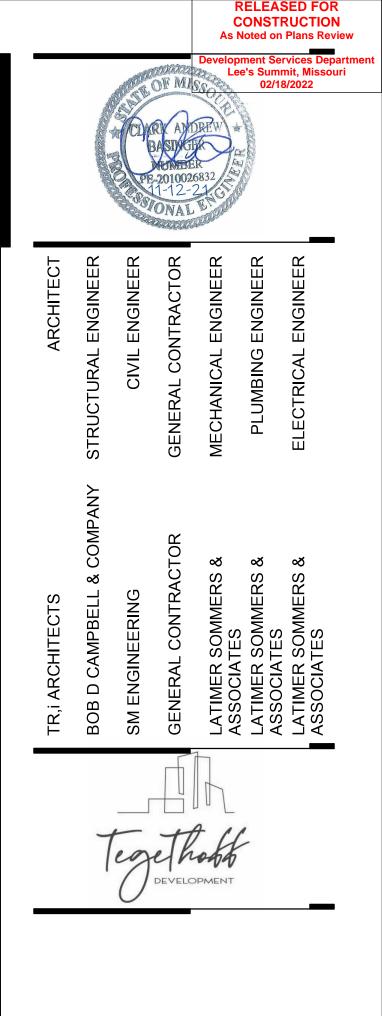
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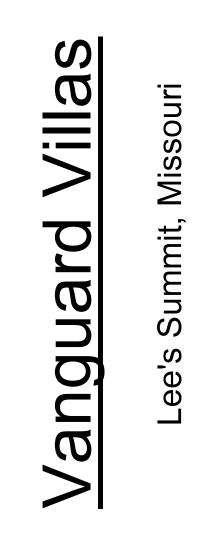


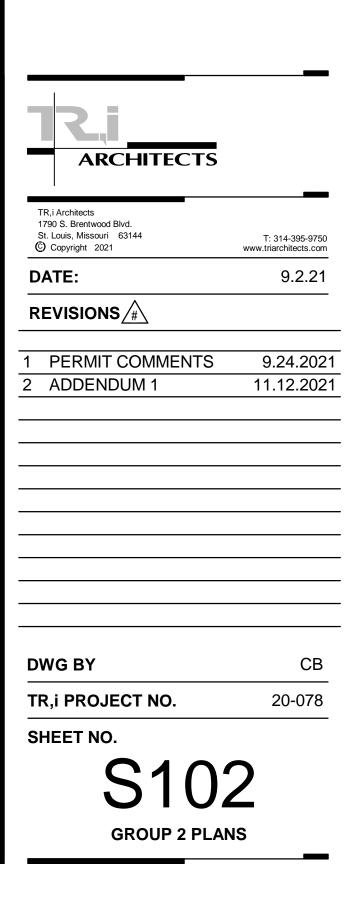
2 GROUP 2 - SECOND FLOOR FRAMING PLAN



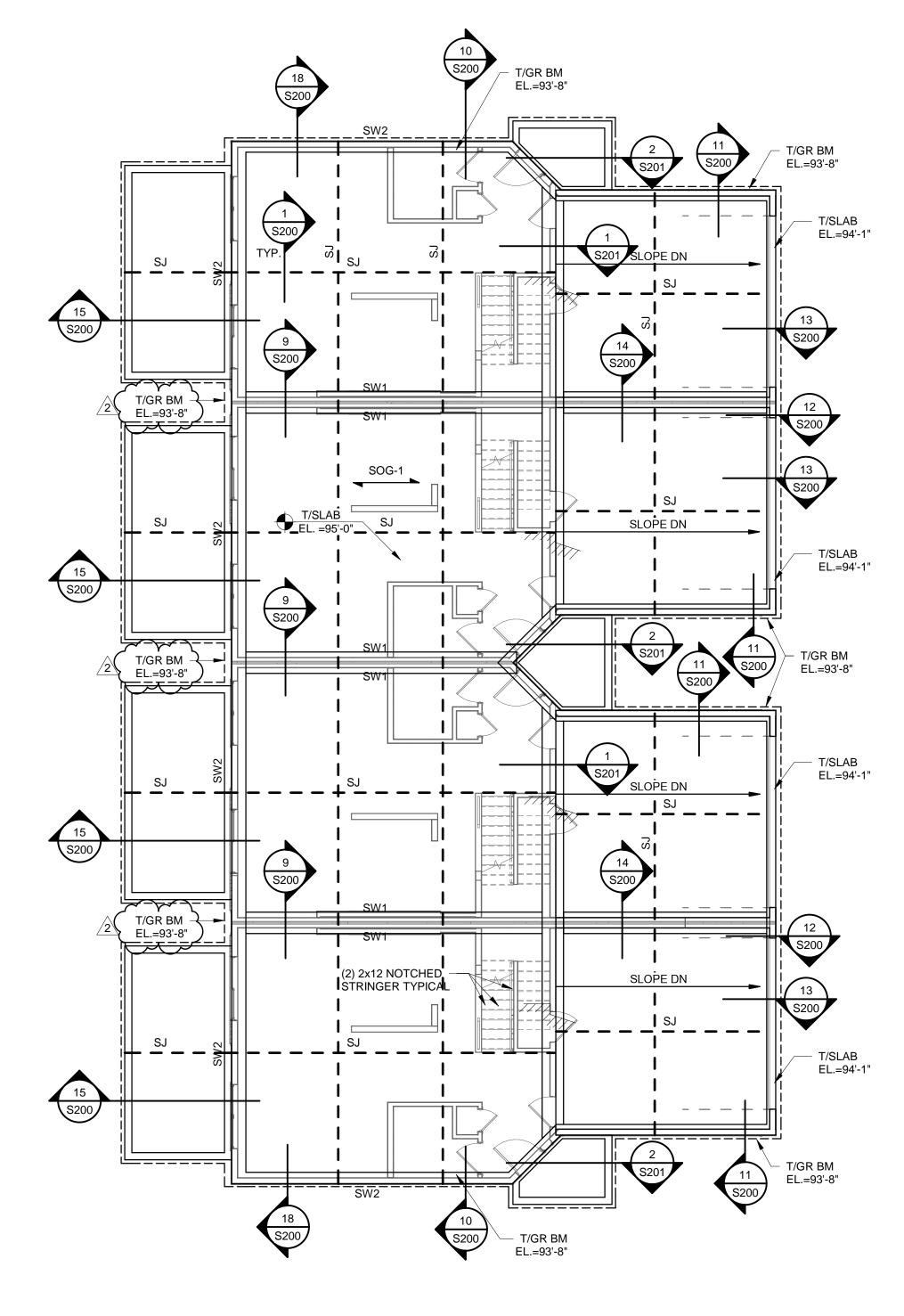
3 GROUP 2 - ROOF FRAMING PLAN

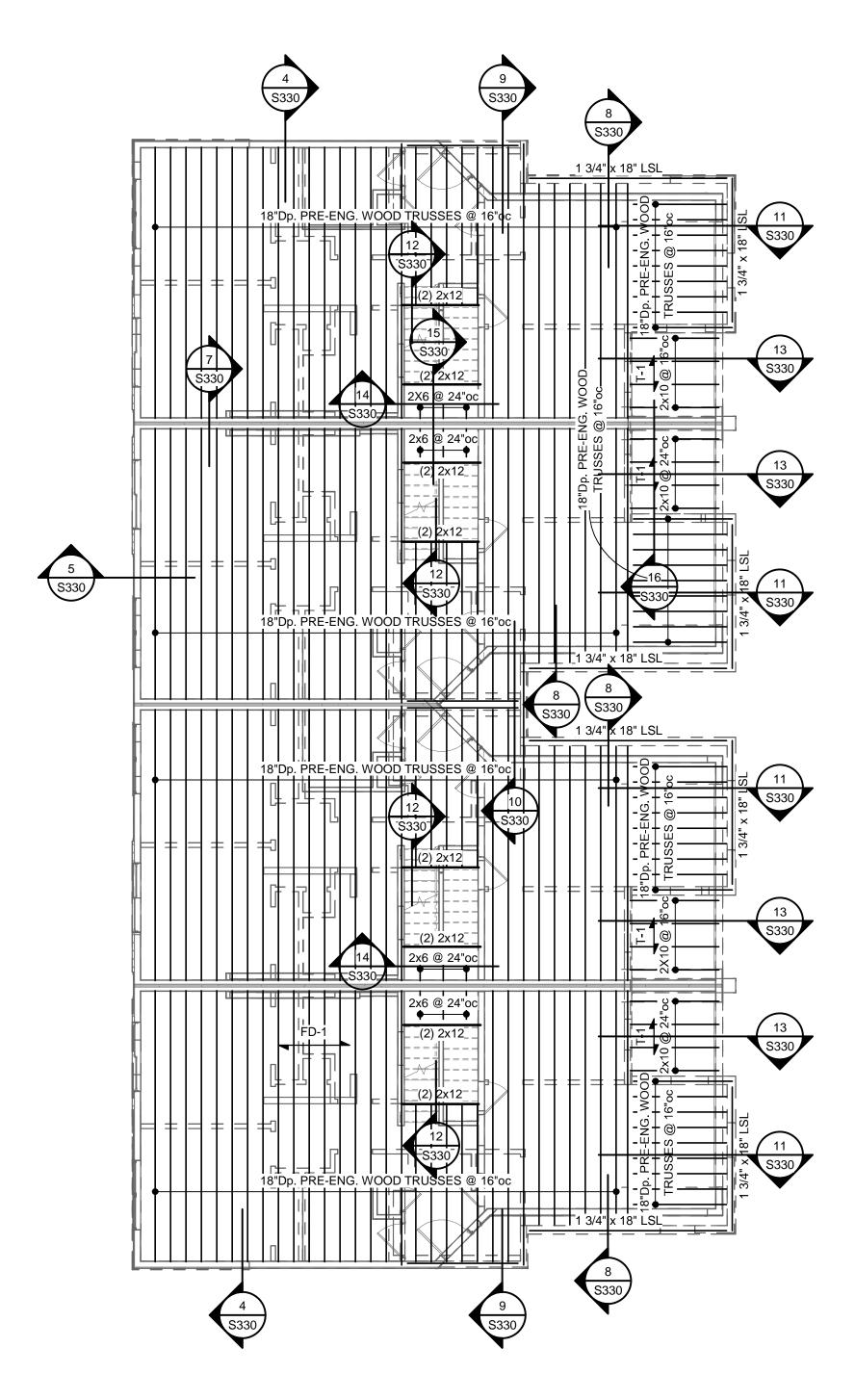




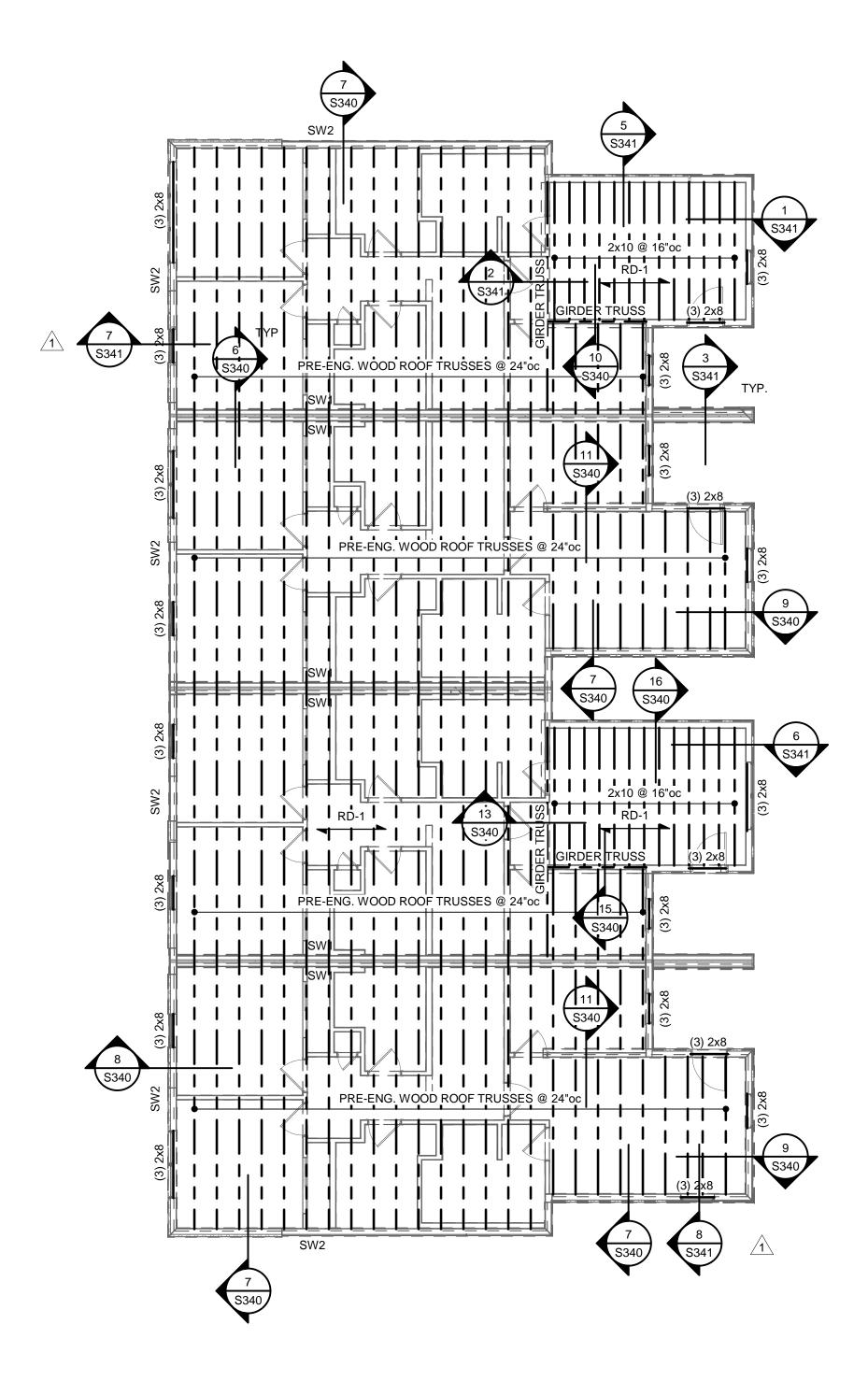


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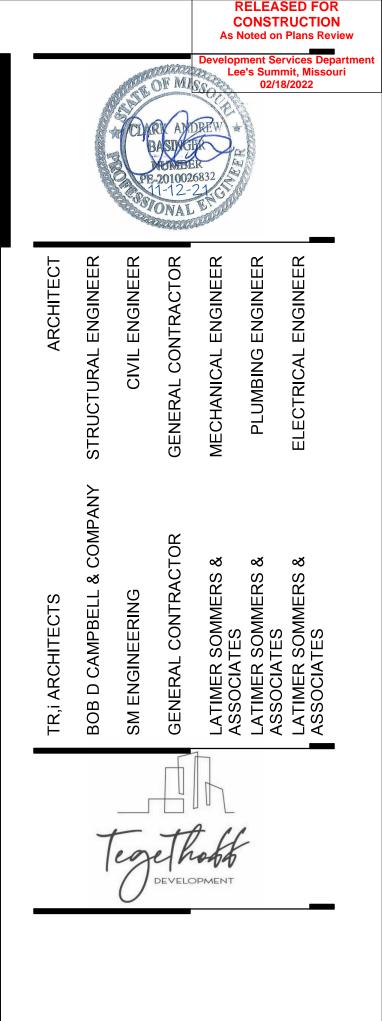


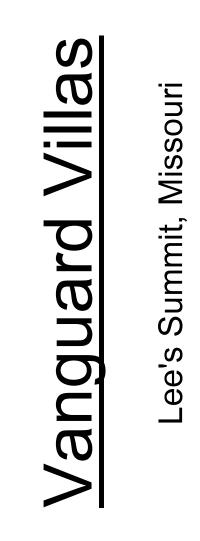


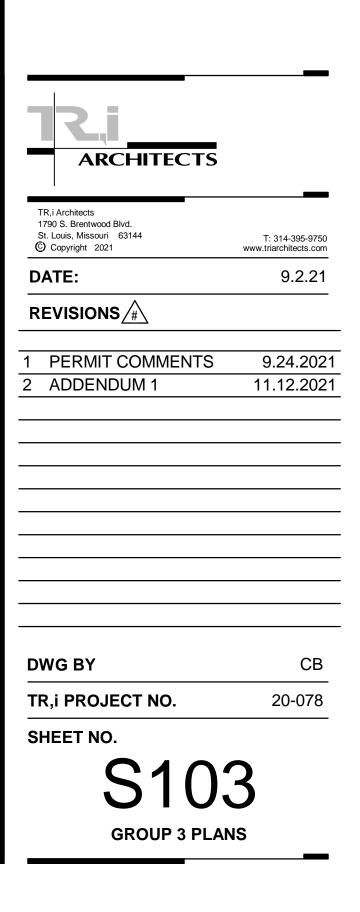
2 GROUP 3 - SECOND FLOOR FRAMING PLAN

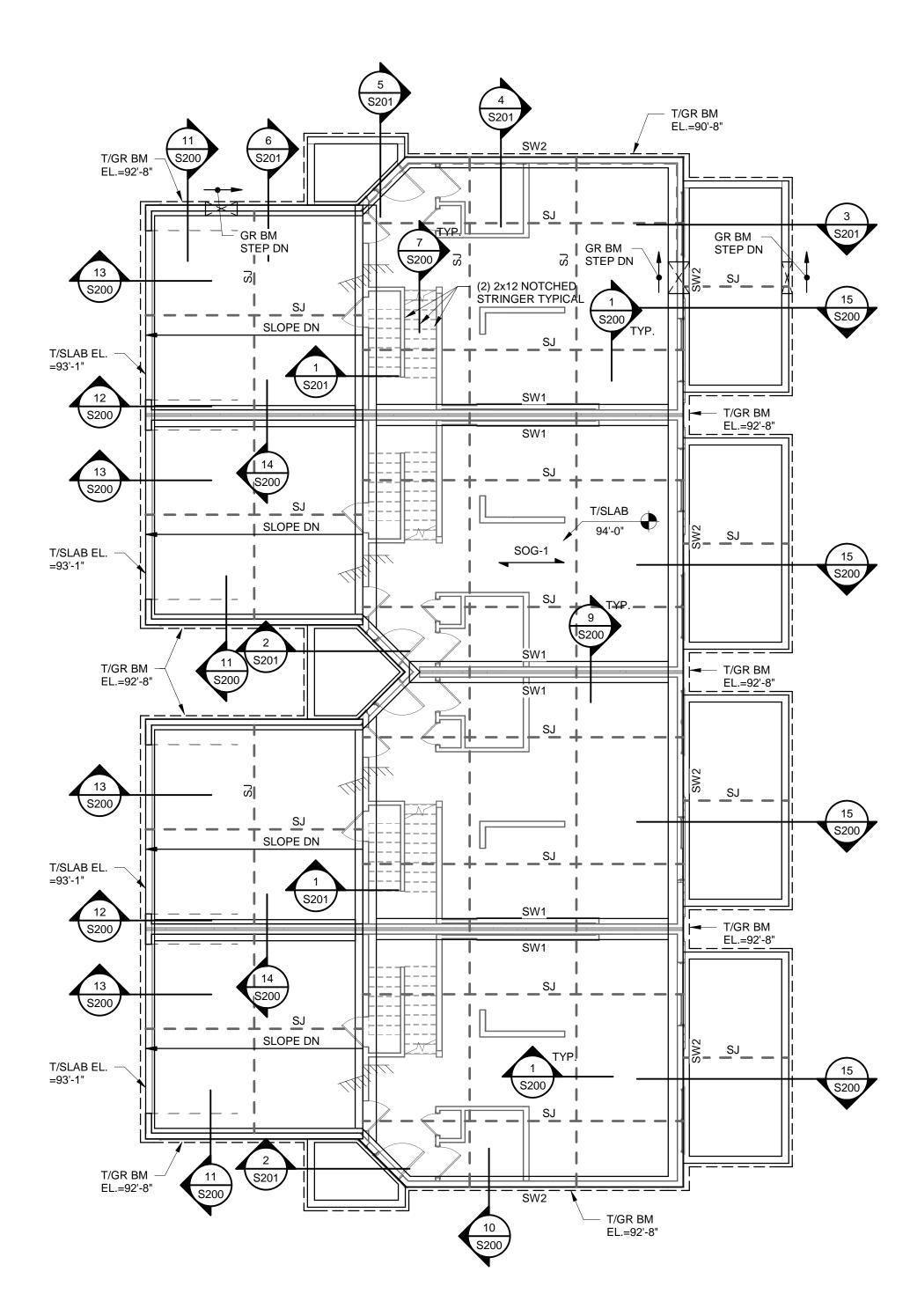




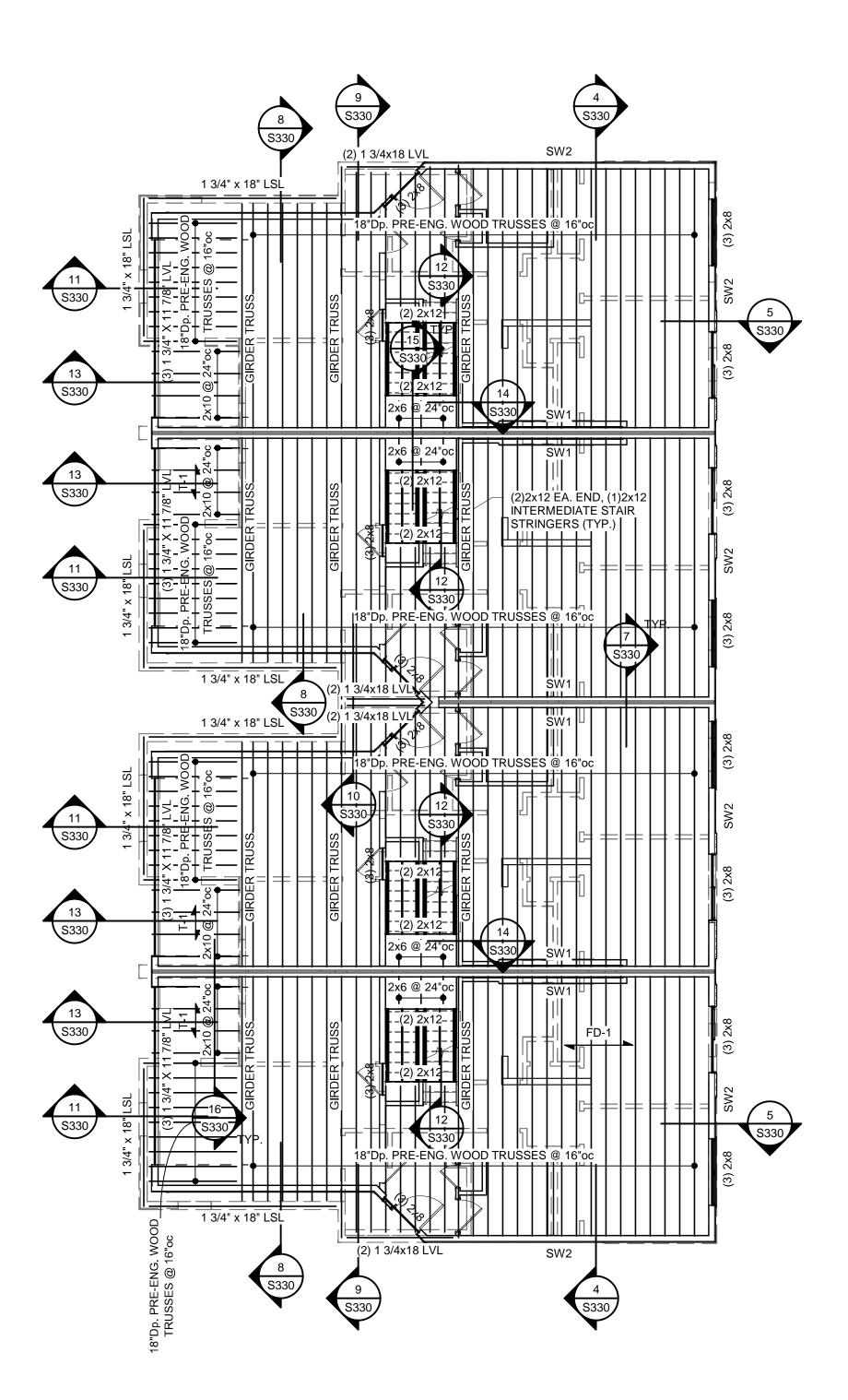




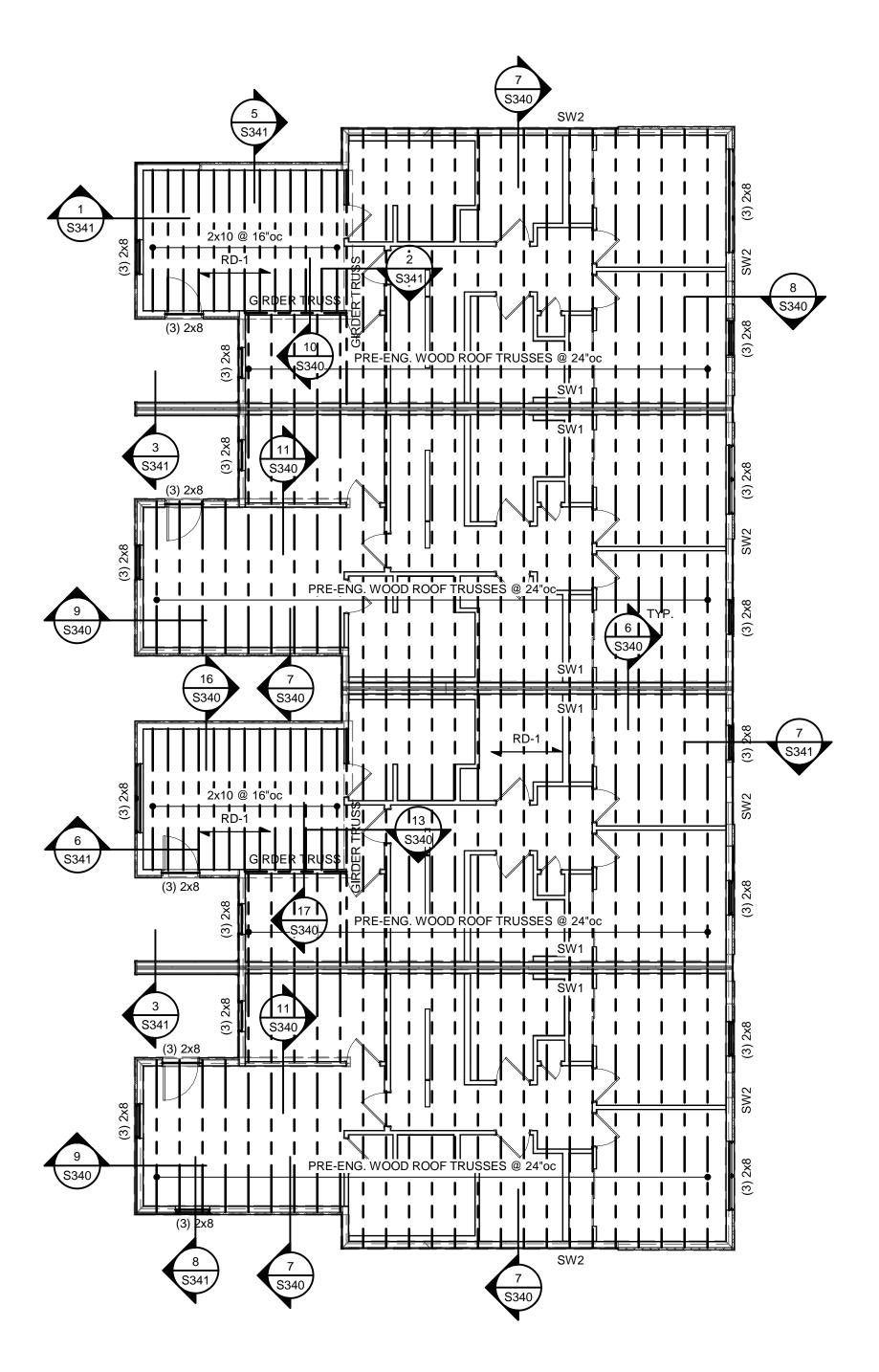




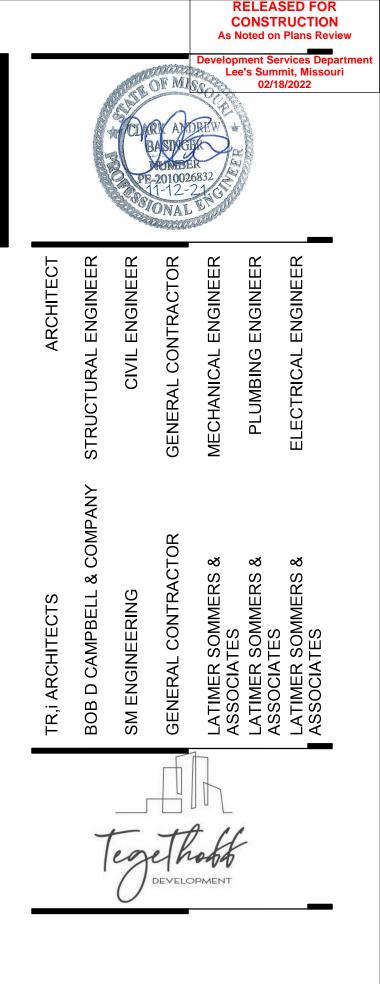
1 GROUP 4 - FOUNDATION PLAN

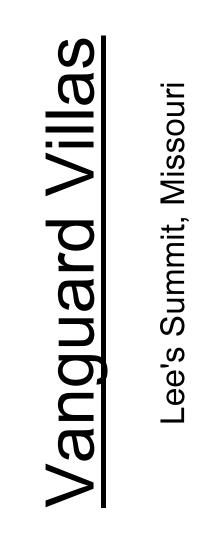


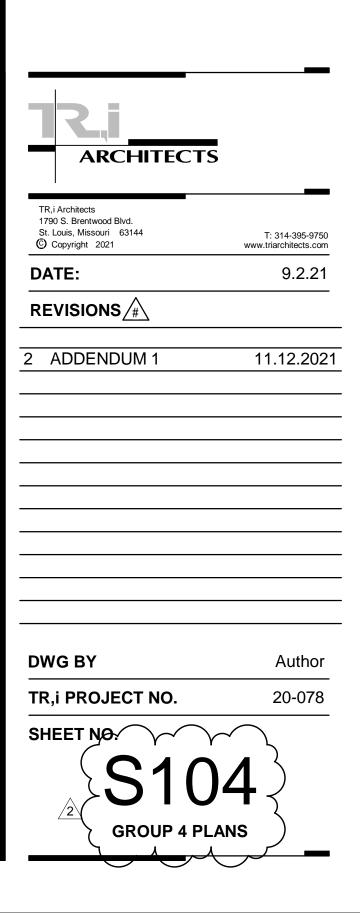


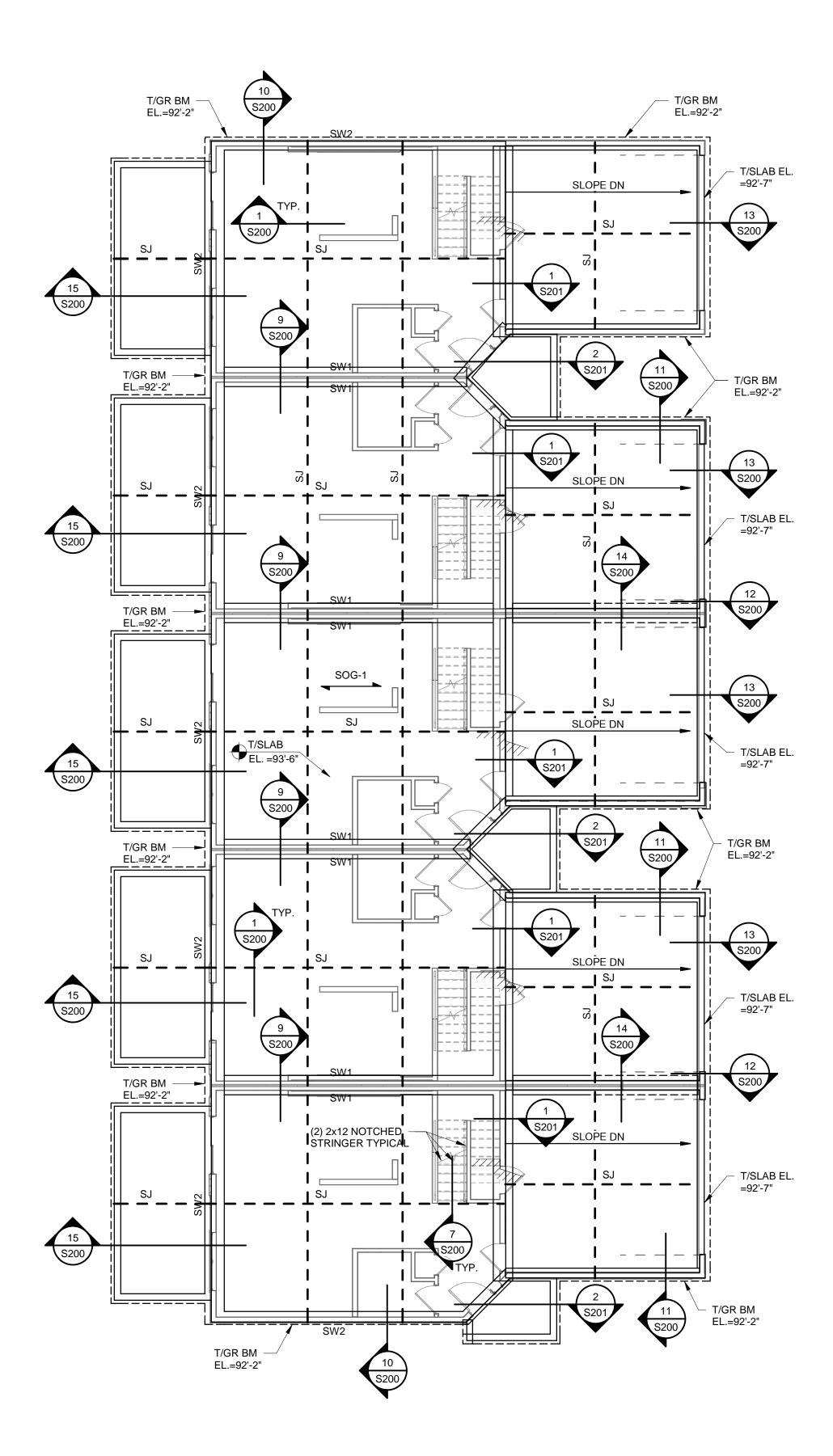


3 GROUP 4 - ROOF FRAMING PLAN

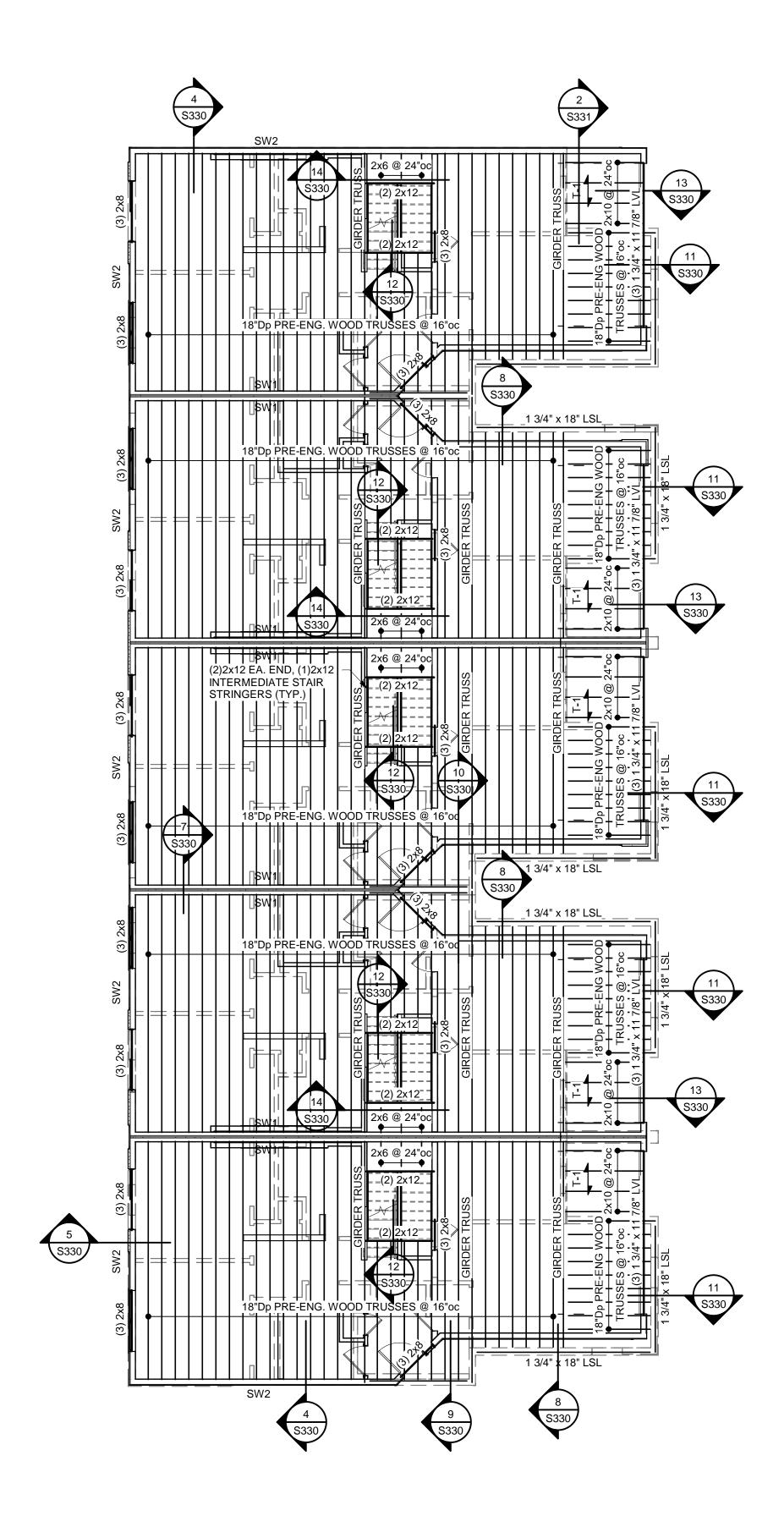




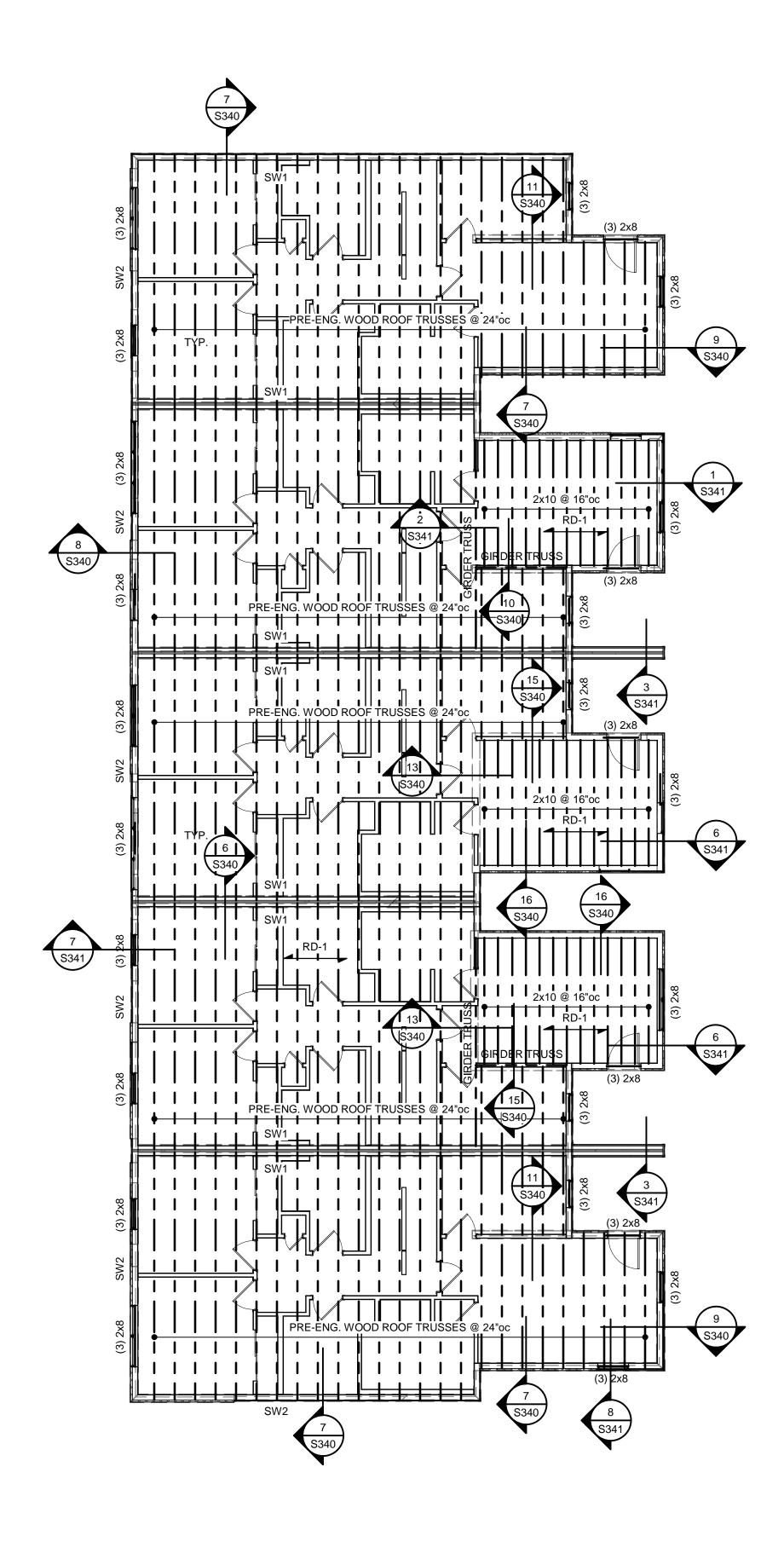




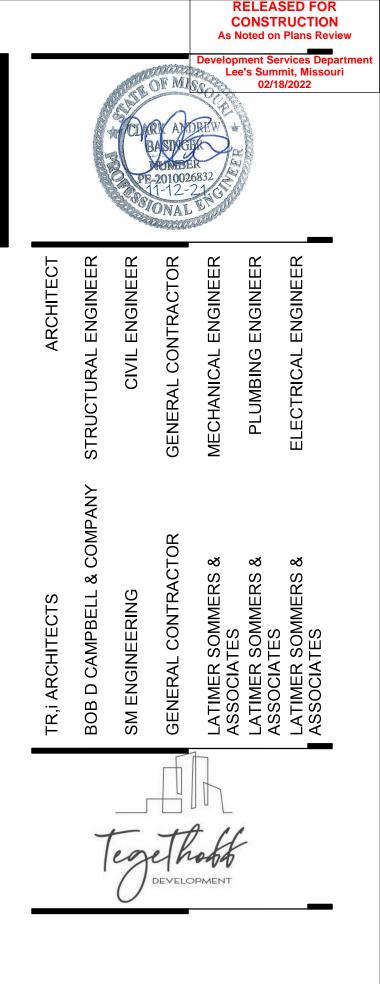
1 GROUP 5 - FOUNDATION PLAN

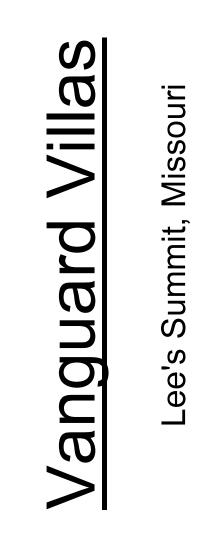


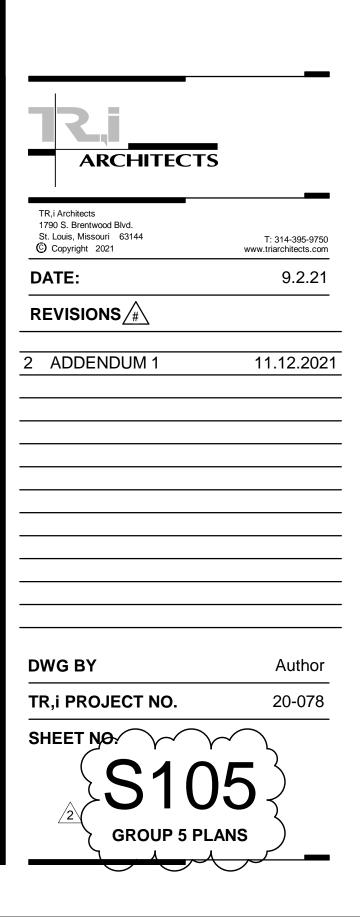
2 GROUP 5 - SECOND FLOOR FRAMING PLAN

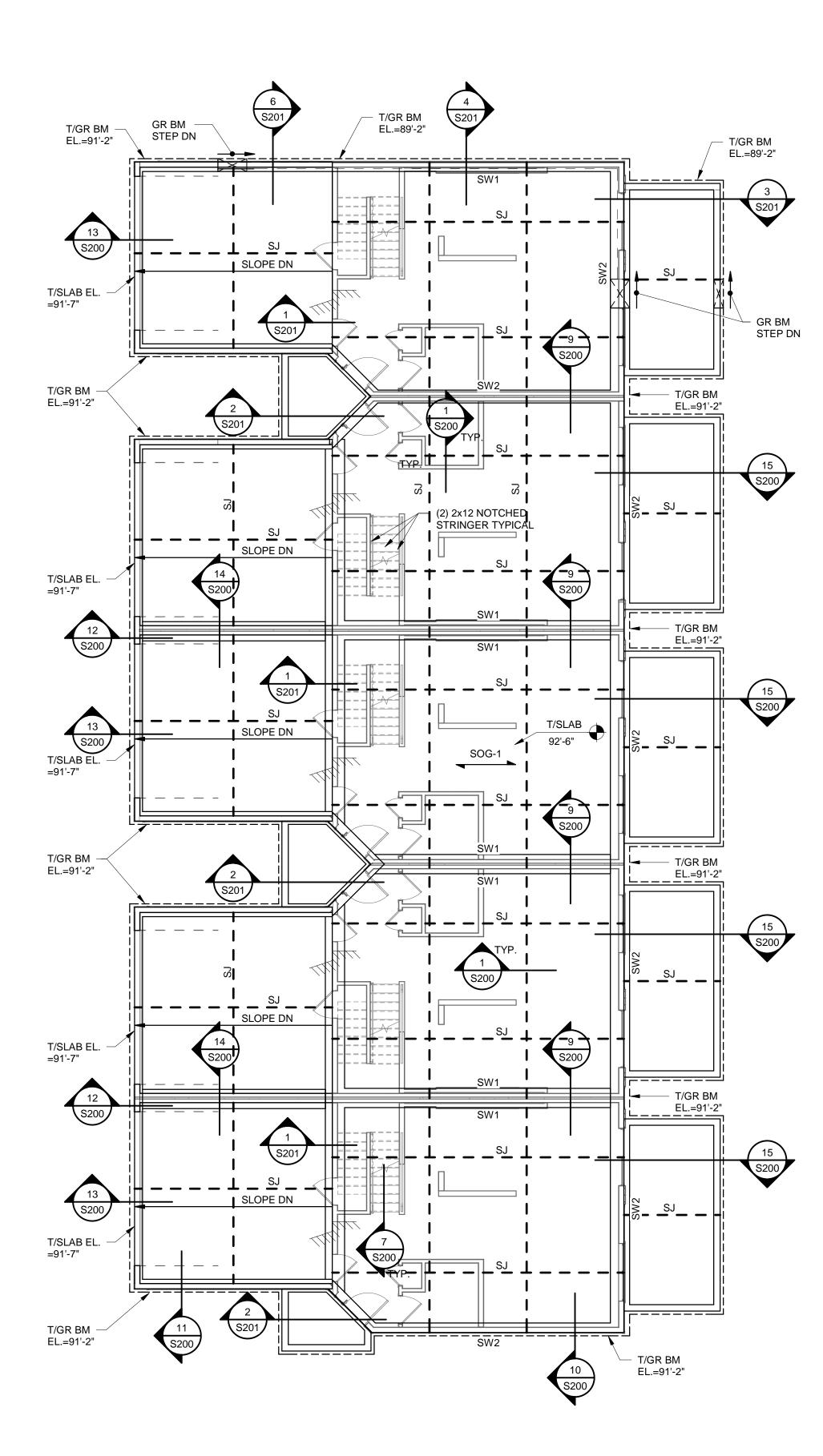


3 GROUP 5 - ROOF FRAMING PLAN

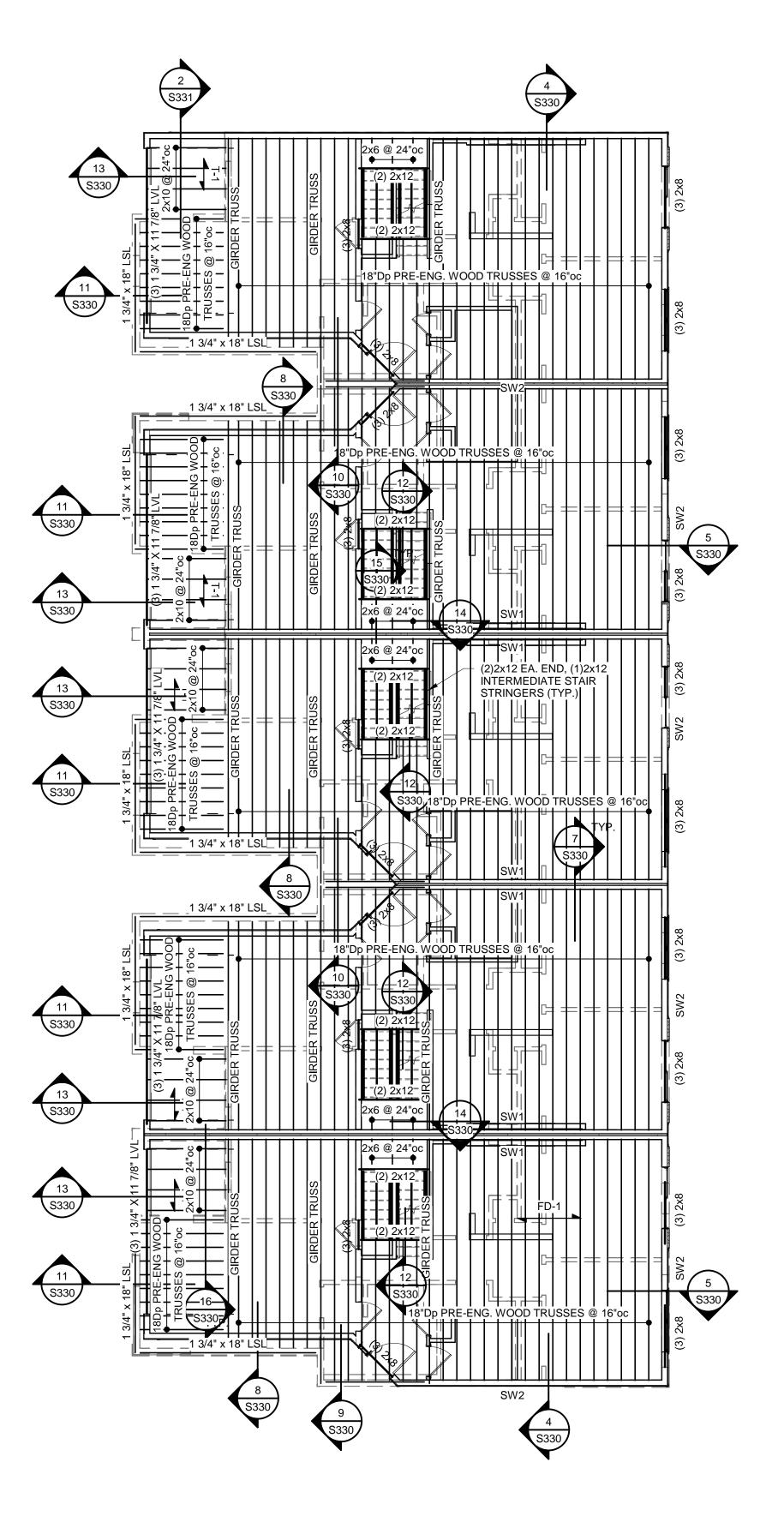




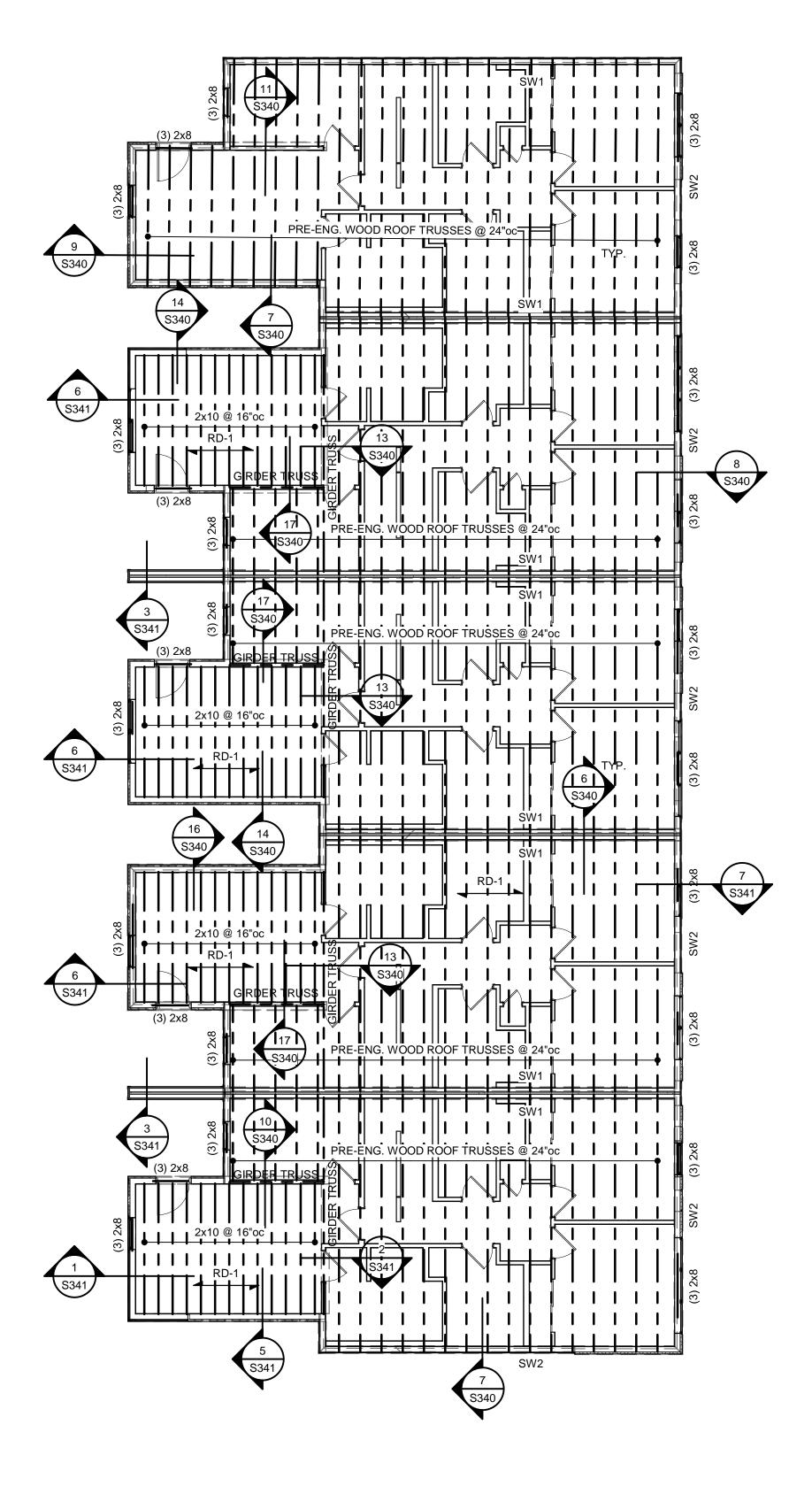




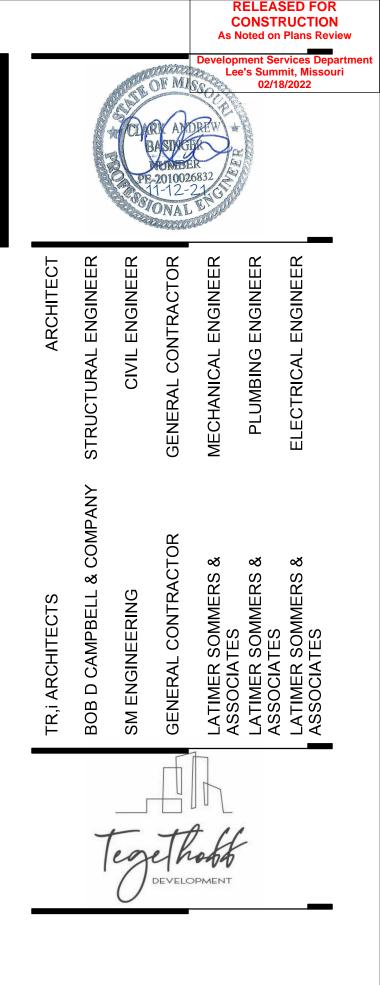
1 GROUP 6 - FOUNDATION PLAN

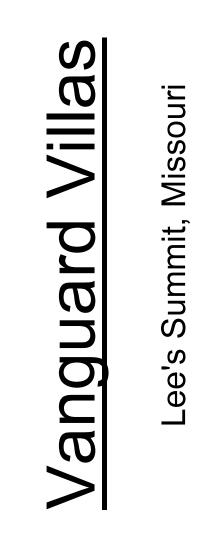


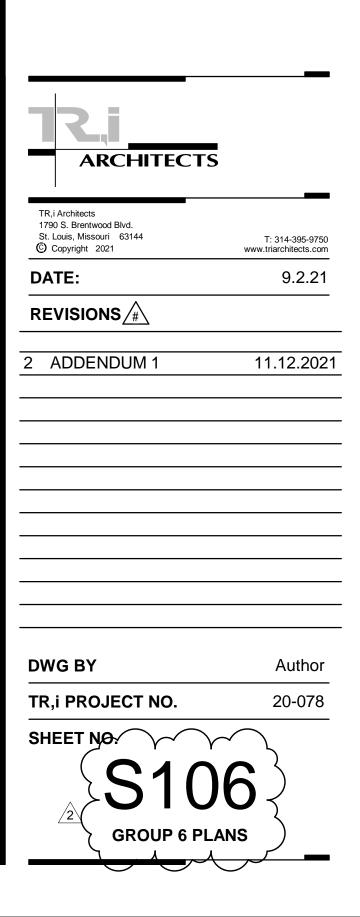
2 GROUP 6 - SECOND FLOOR FRAMING PLAN



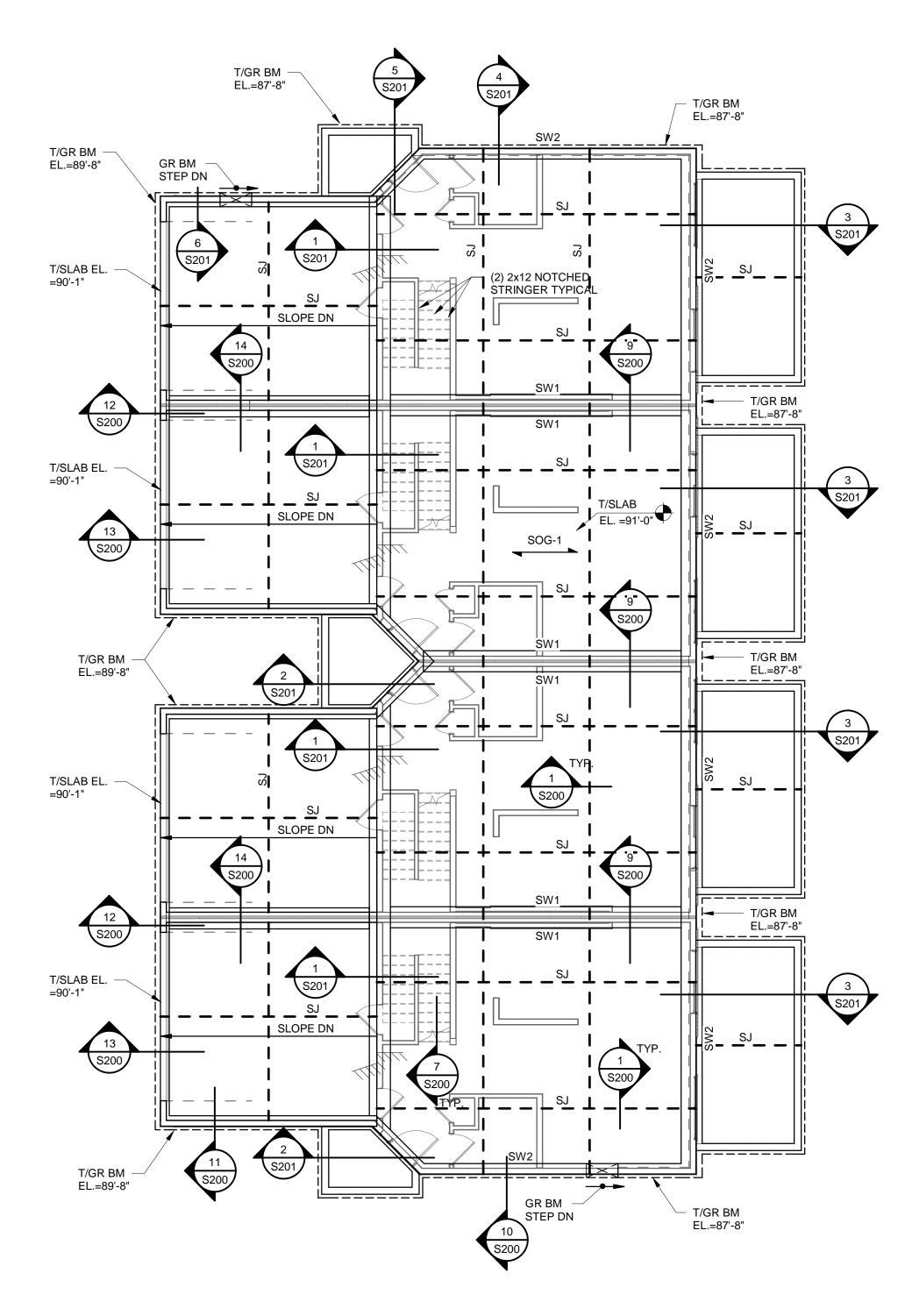
3 GROUP 6 - ROOF FRAMING PLAN

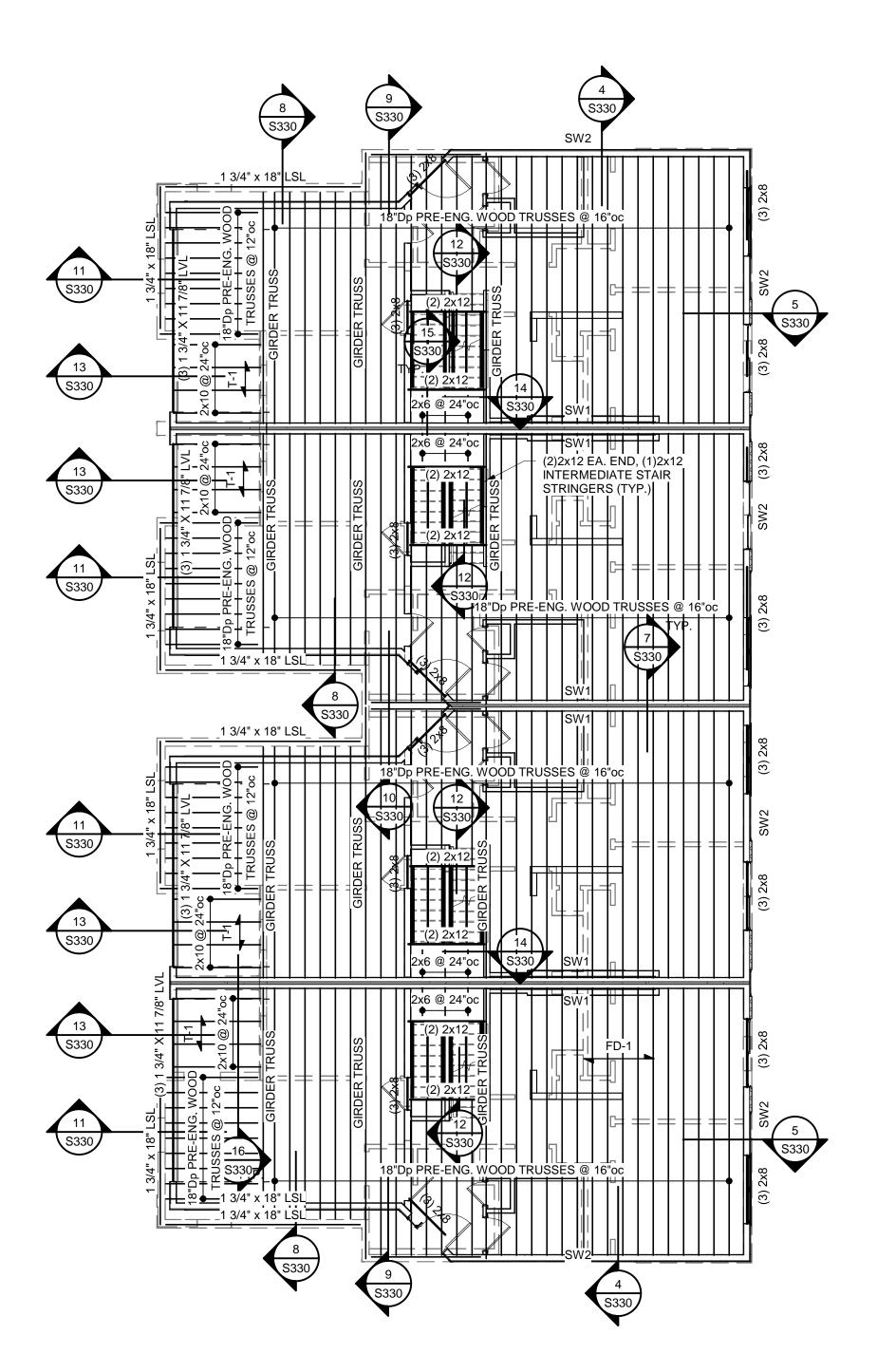




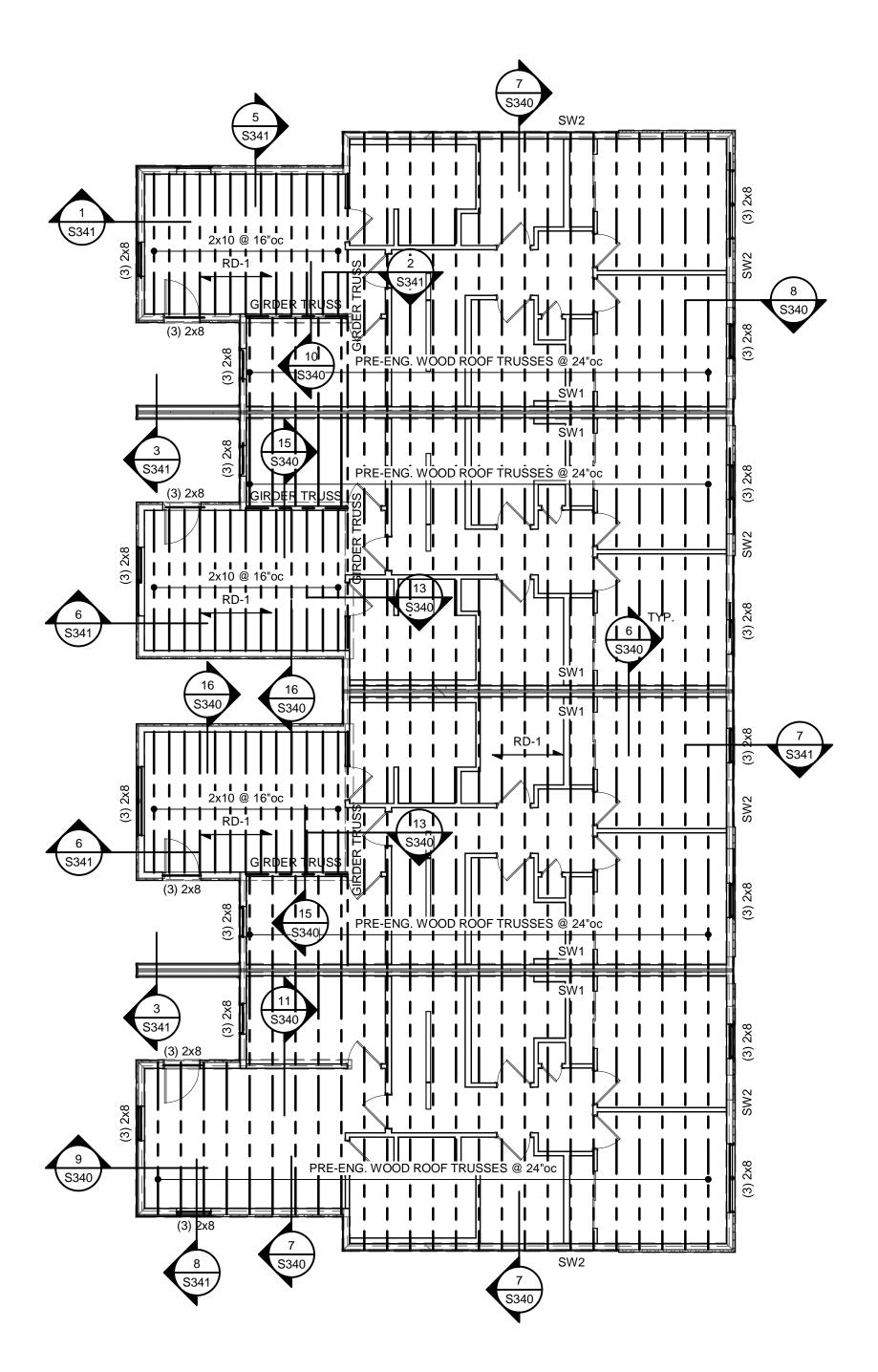


1 GROUP 7 - FOUNDATION PLAN

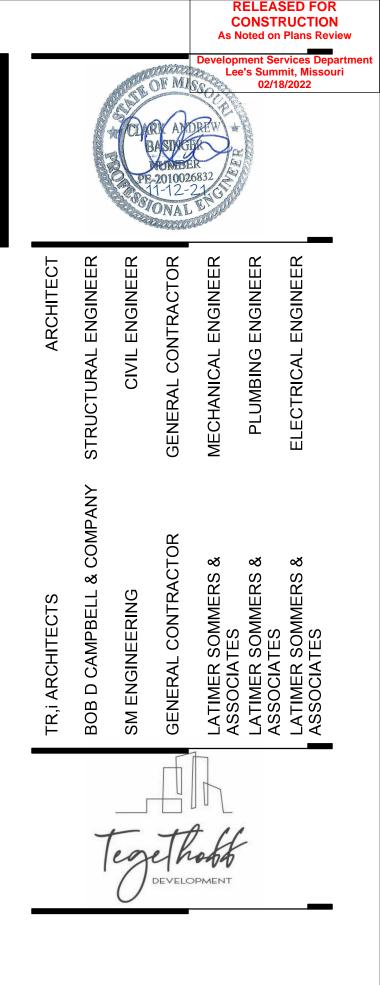


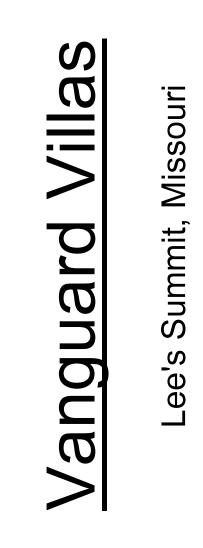


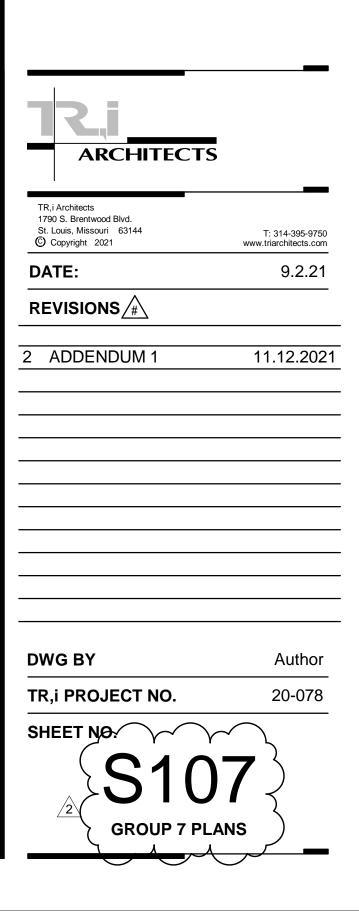
2 GROUP 7 - SECOND FLOOR FRAMING PLAN

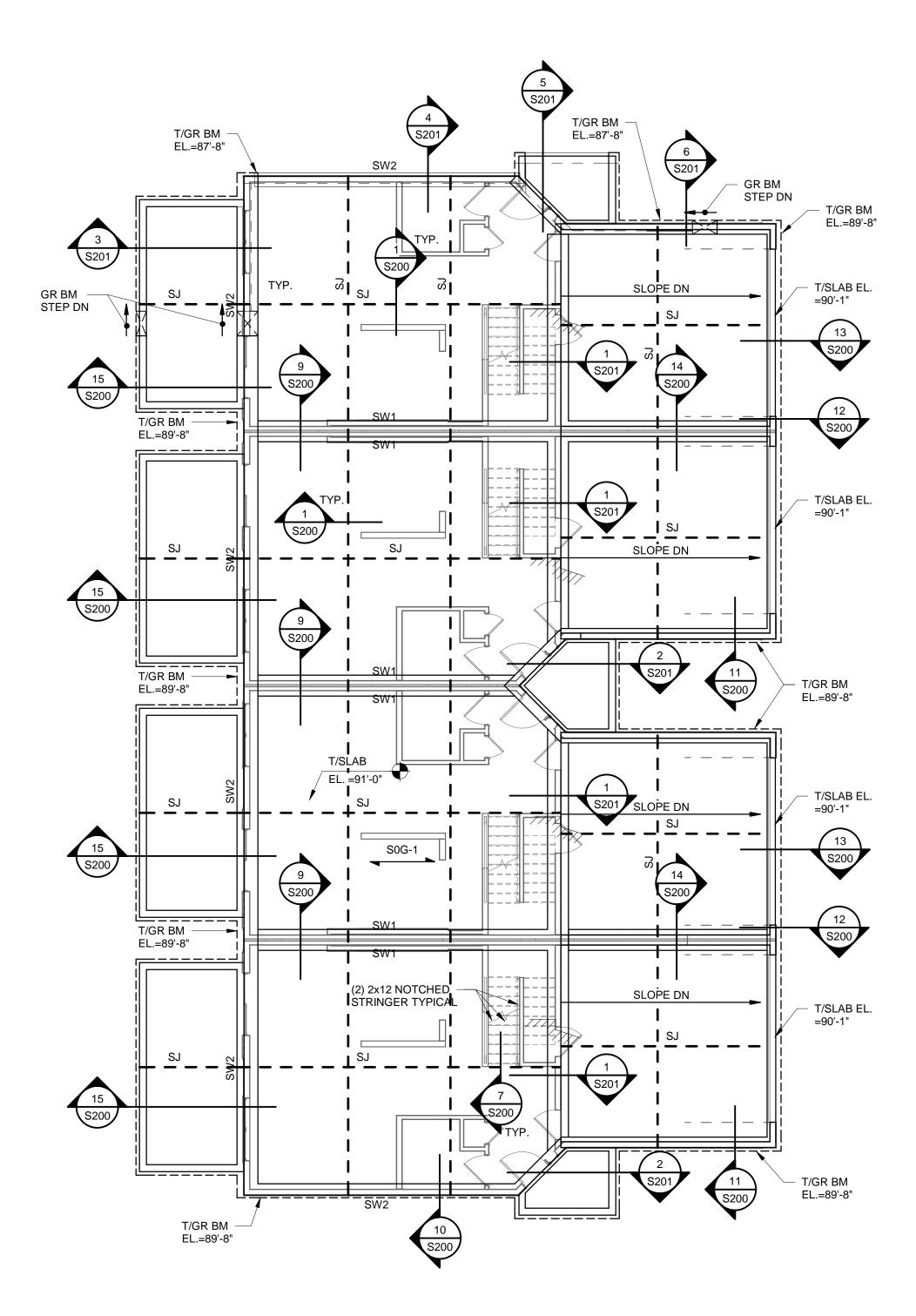


3 GROUP 7 - ROOF FRAMING PLAN

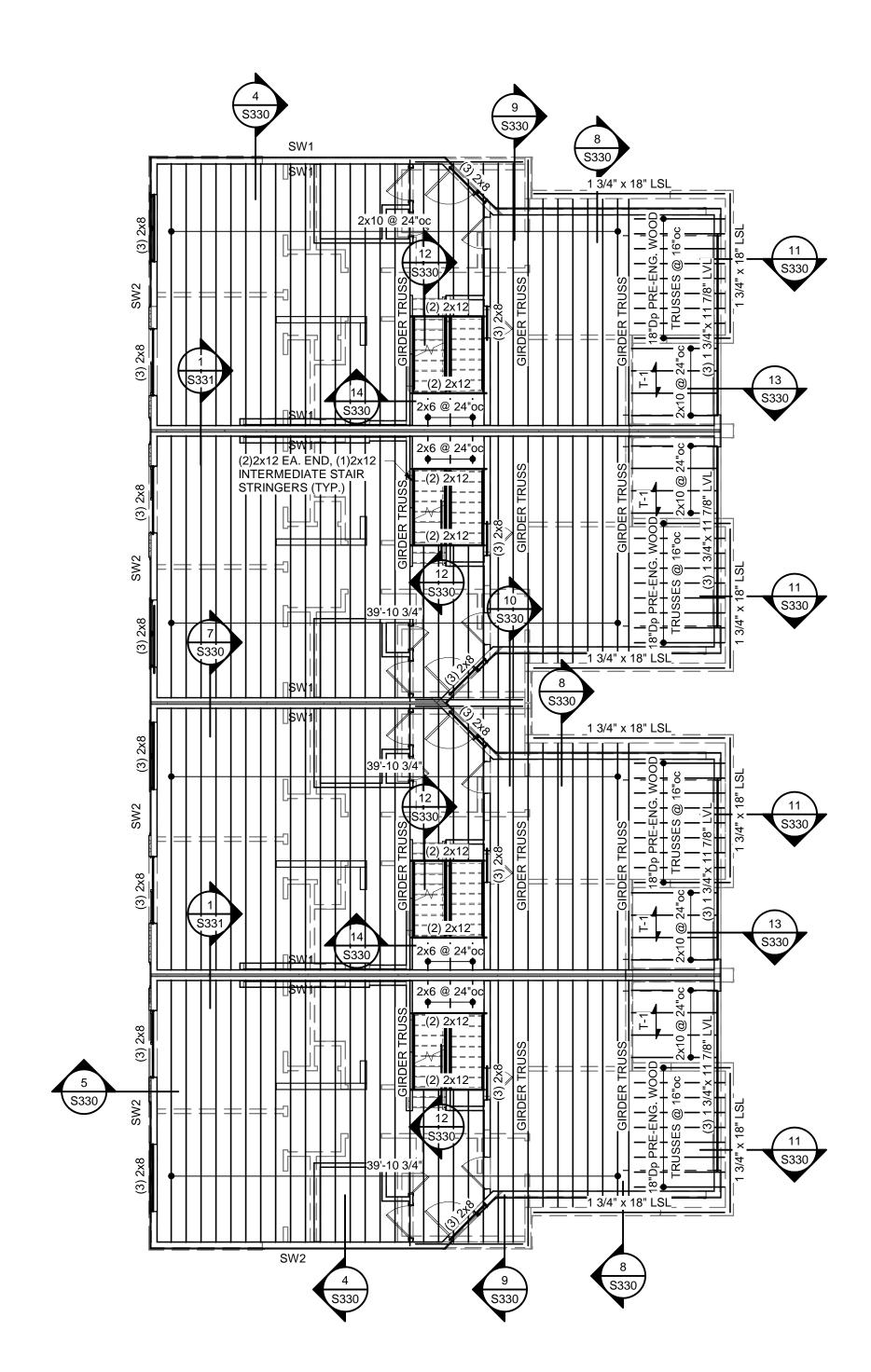




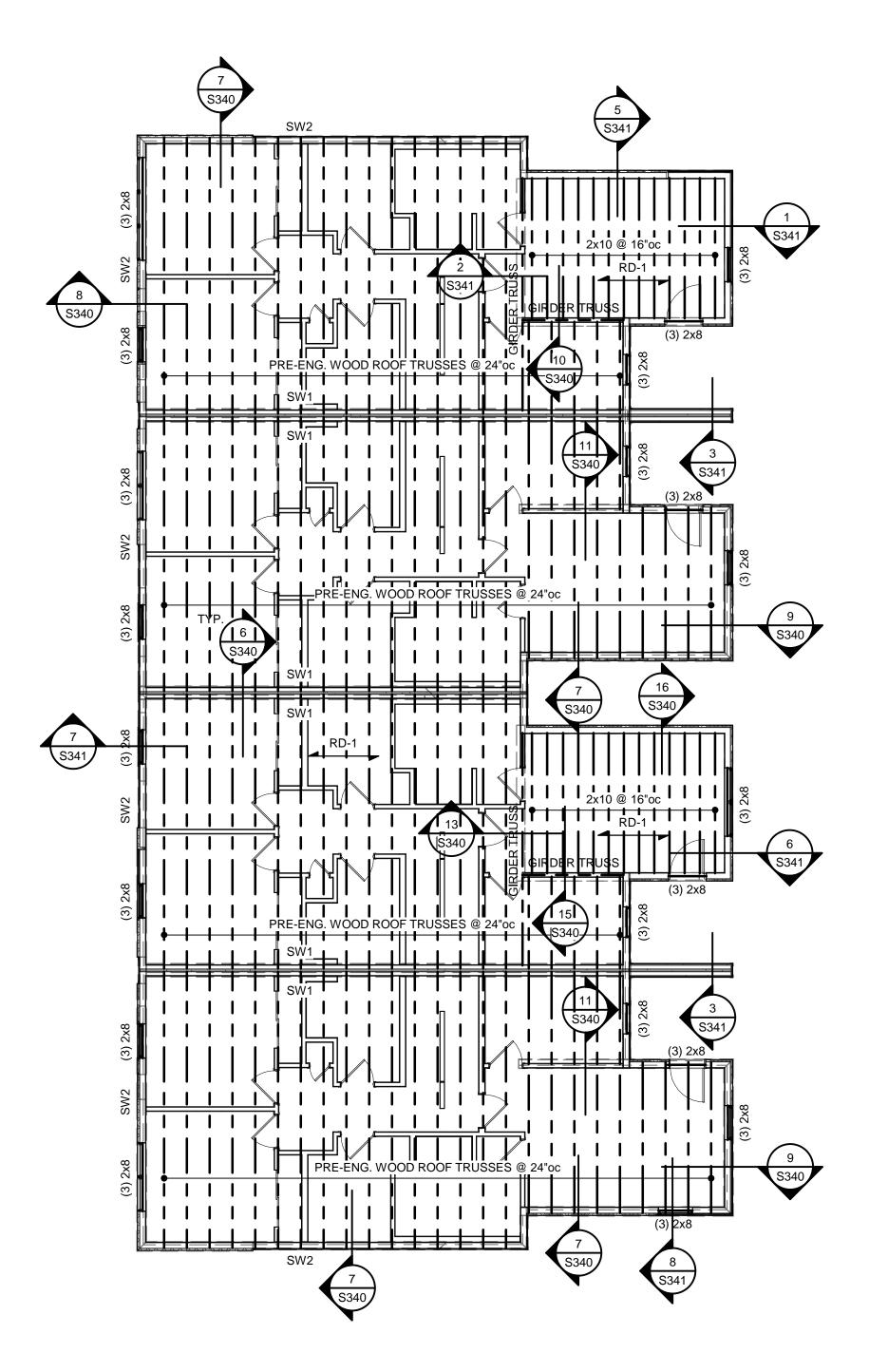




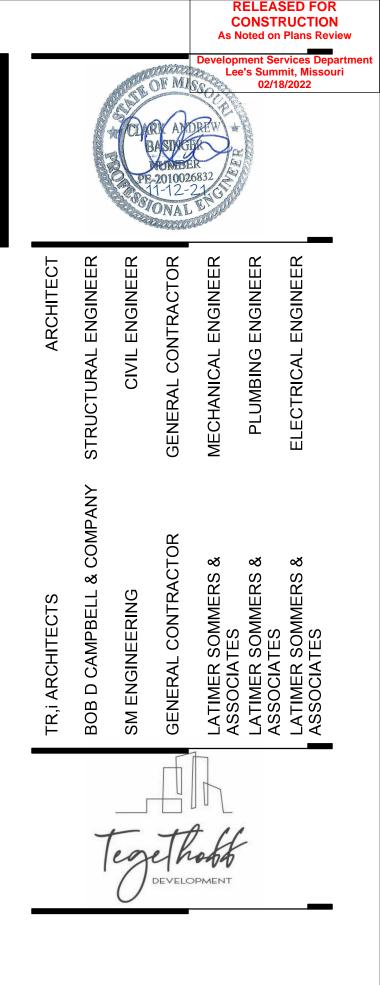
1 GROUP 8 - FOUNDATION PLAN

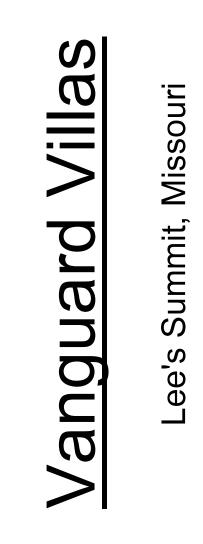


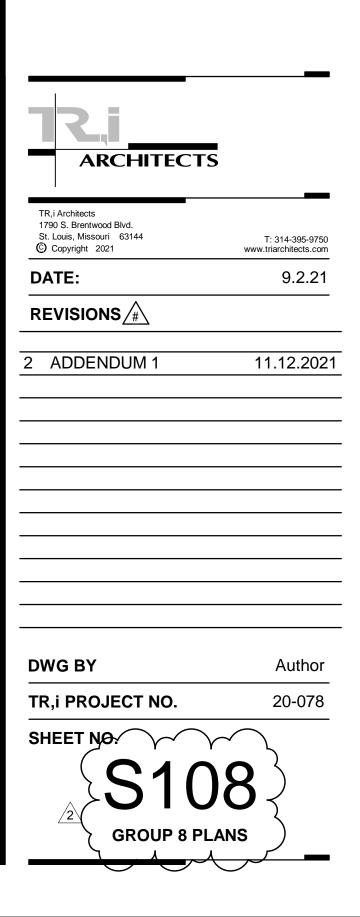
2 GROUP 8 - SECOND FLOOR FRAMING PLAN

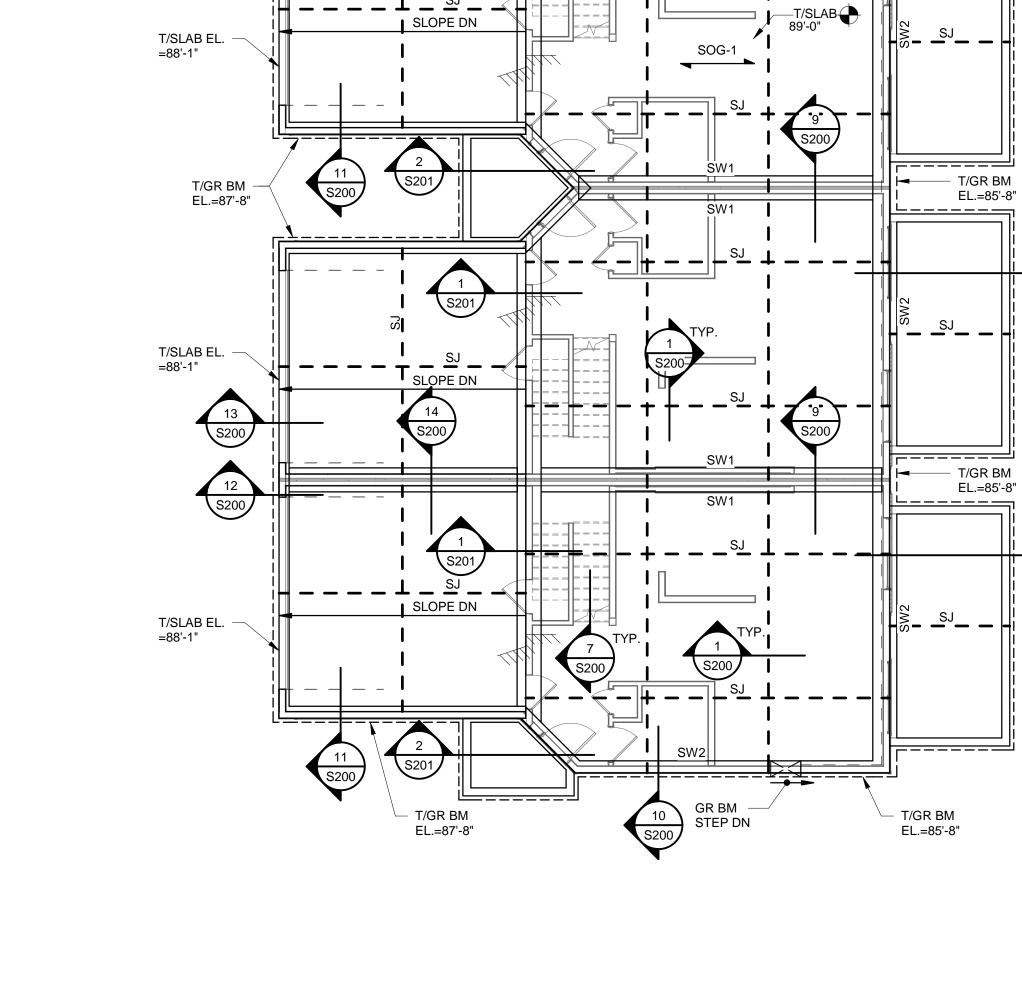


3 GROUP 8 - ROOF FRAMING PLAN









SJ___

- T/GR BM

EL.=87'-0"

_+____

_

S200

- T/GR BM EL.=87'-0"

S200

SW1

GR BM STEP DN

89'-0"

SW2____

- - - - - T/SLAB

SOG-1

______SJ ╶━│╄╸━╸━│┾╸°ँ

(2) 2x12 NOTCHED STRINGER TYPICAL

SW1

- T/GR BM

EL.=87'-0"

SW/1

S201

_ _ _ _ SLOPE DN

S201

14 S200 51

T/SLAB

88'-4"

1 / S109B

1 / S109B

T/GR BM — EL.=87'-0"

T/SLAB EL. =87'-5"

S200

T/SLAB EL. =87'-5"

T/GR BM --EL.=87'-0"

_ _ _

T/SLAB EL. =88'-1"

T/GR BM ---EL.=87'-8"

T/SLAB EL. =88'-1"

S200

S200

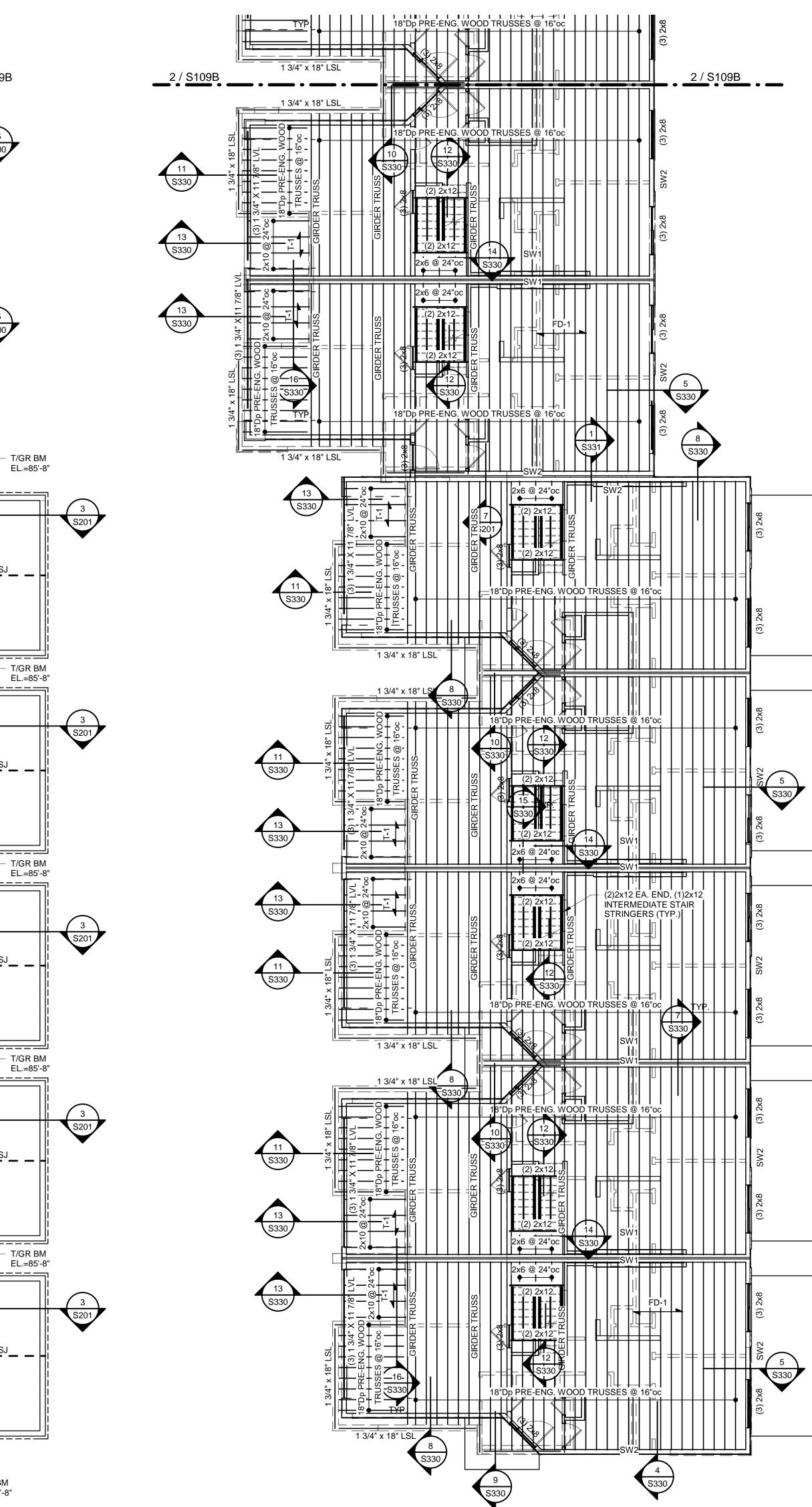
⊥ _ ײ _ _ SLOPE DN

GR BM —

S200

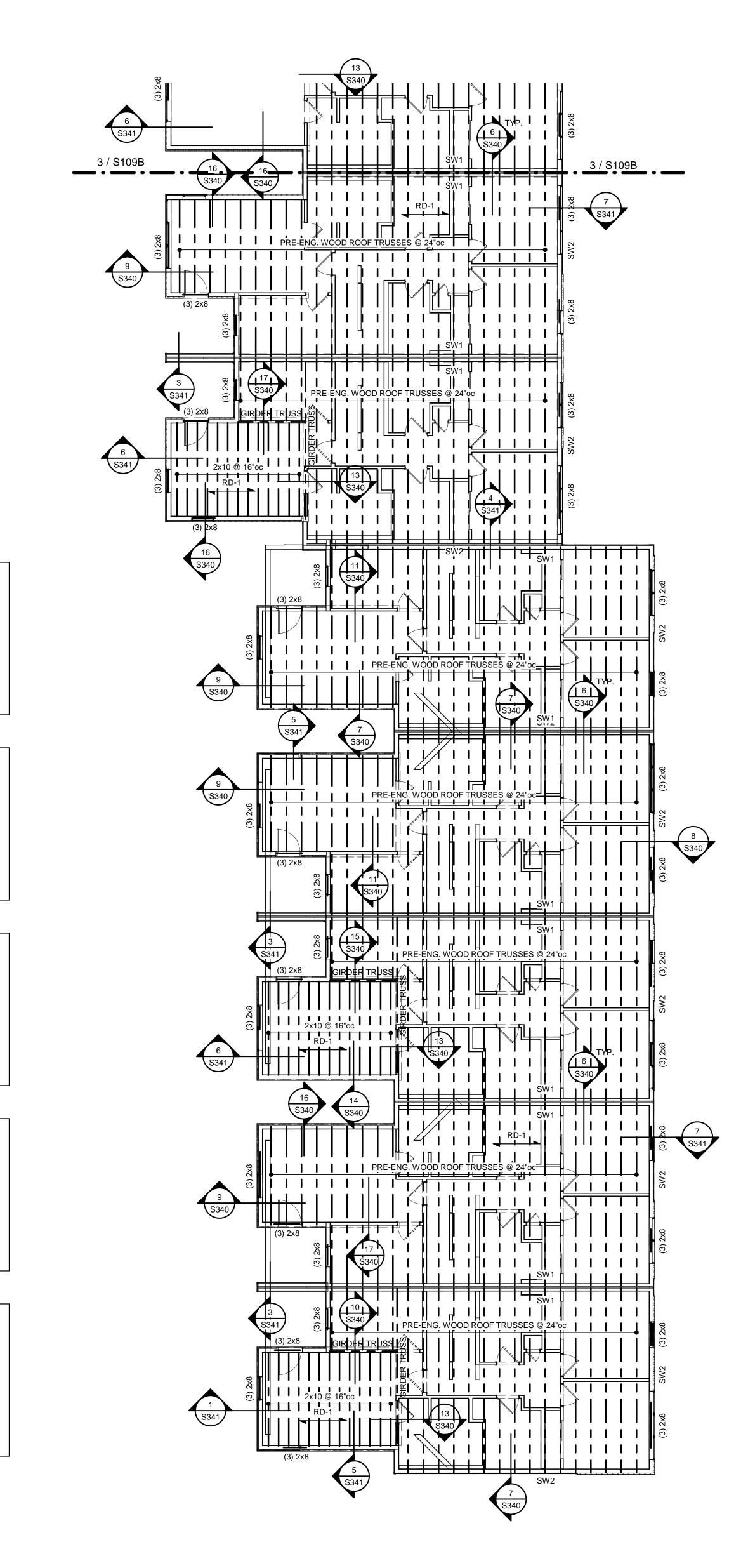
STEP DN

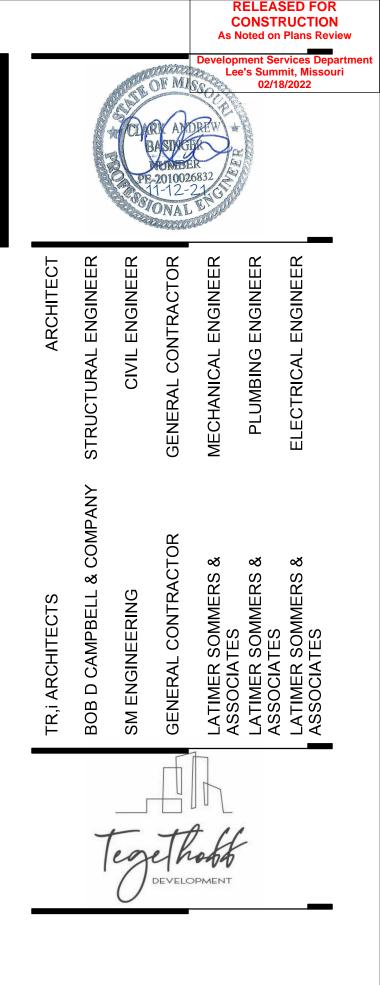
1 GROUP 9 - FOUNDATION PLAN

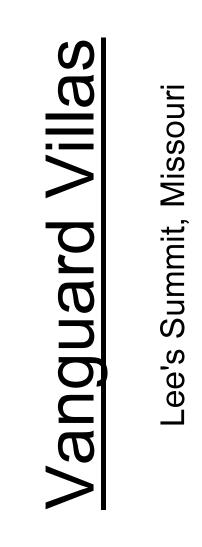


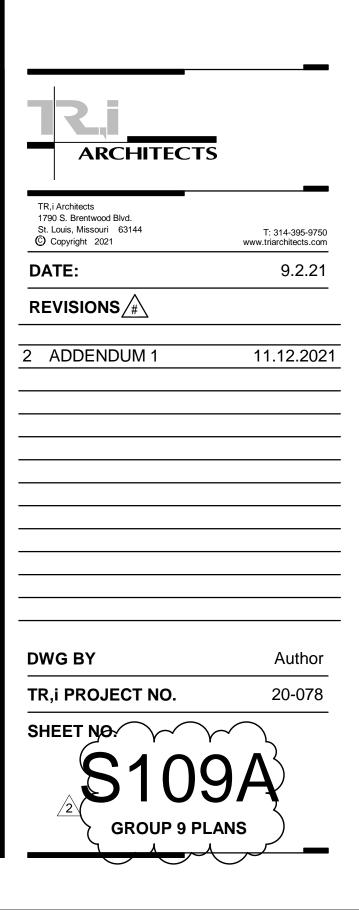
2 GROUP 9 - SECOND FLOOR FRAMING PLAN

3 GROUP 9 - ROOF FRAMING PLAN

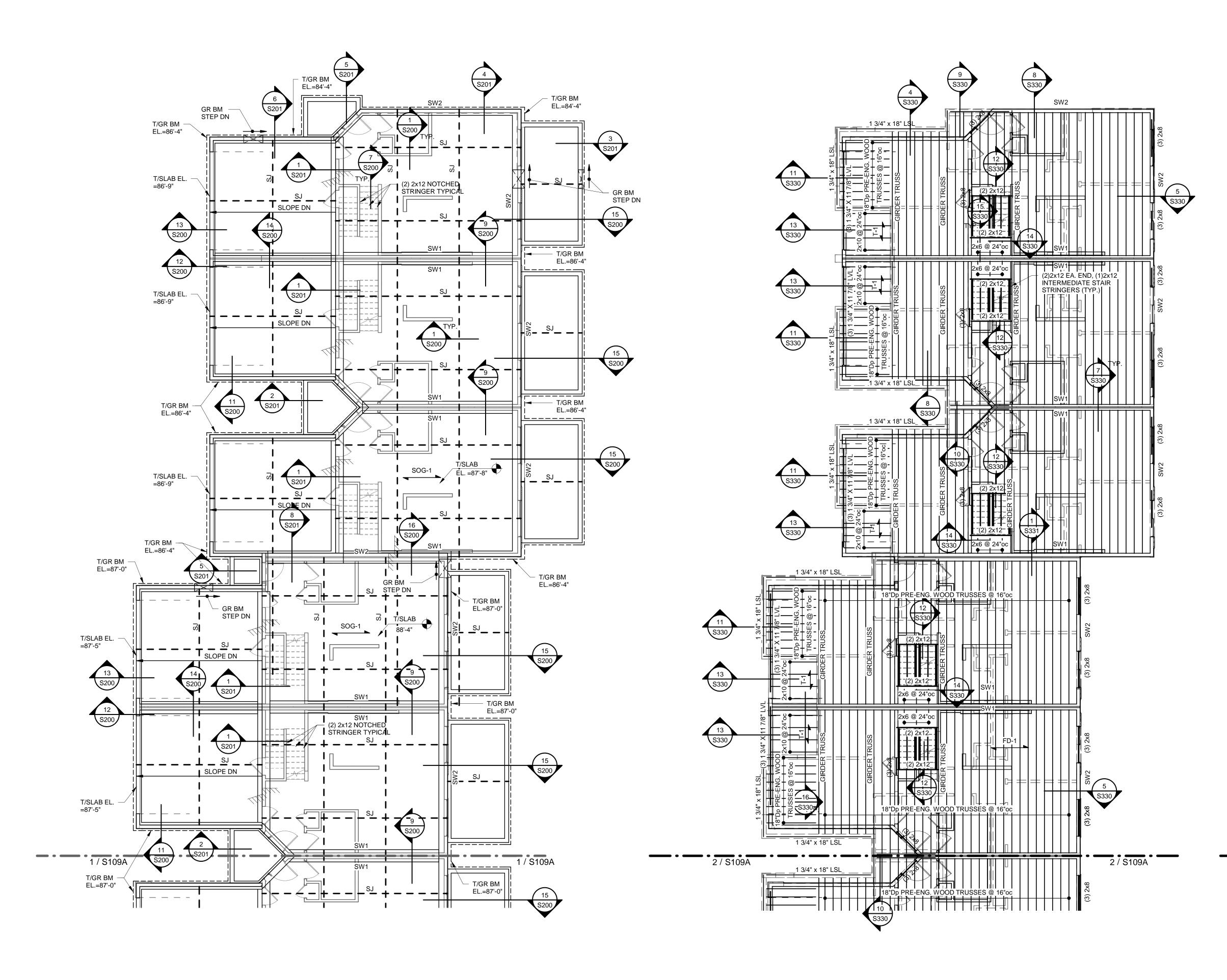




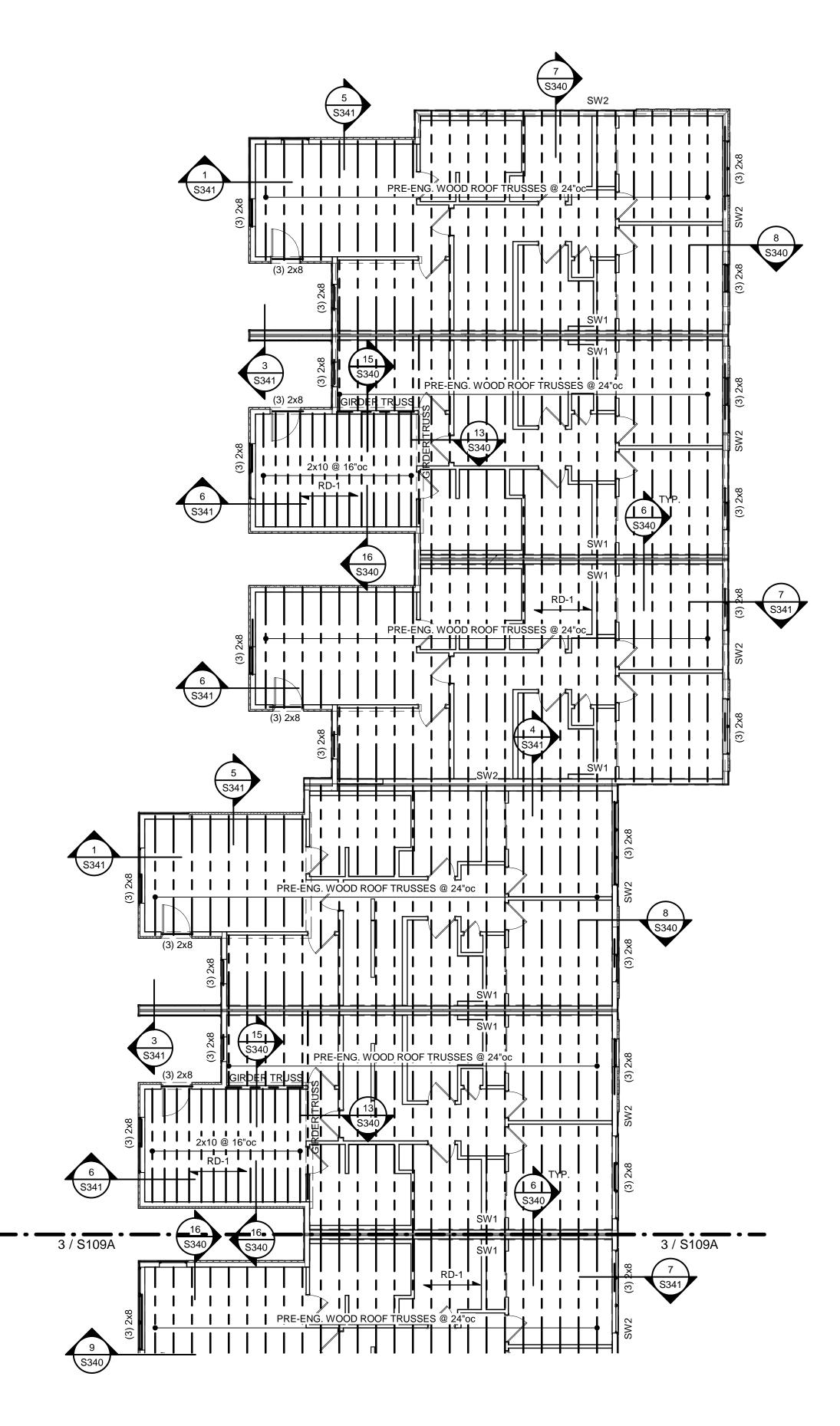




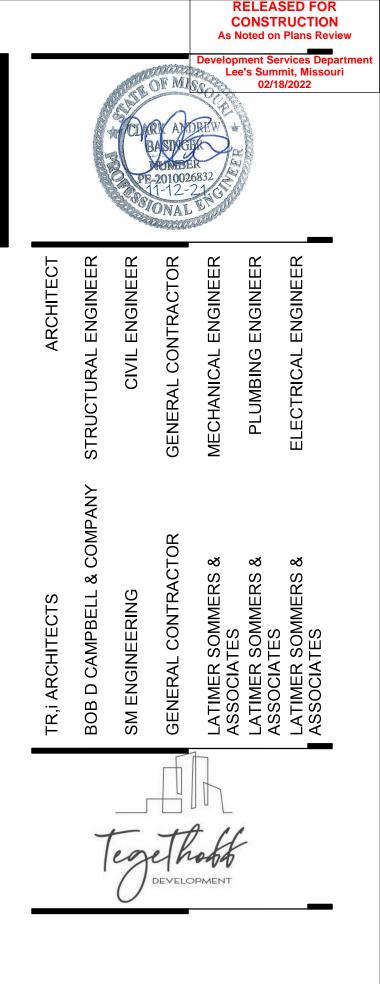
1 GROUP 9 - FOUNDATION PLAN

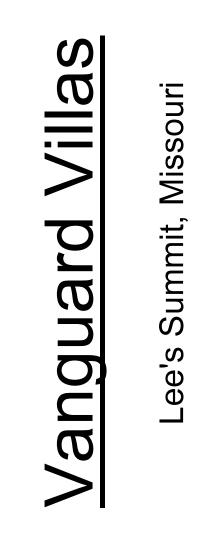


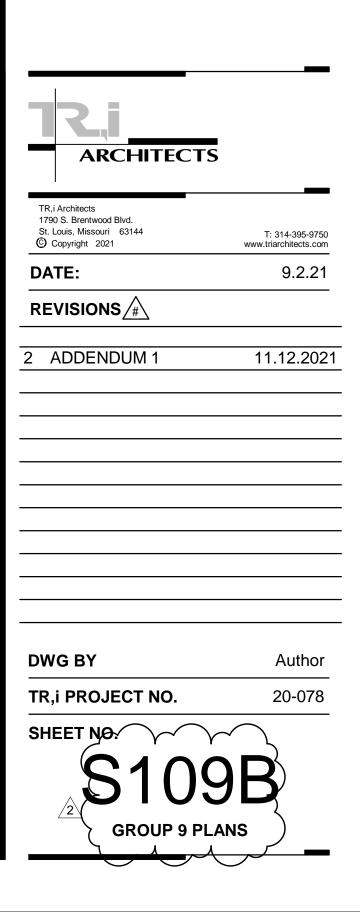
2 GROUP 9 - SECOND FLOOR FRAMING PLAN



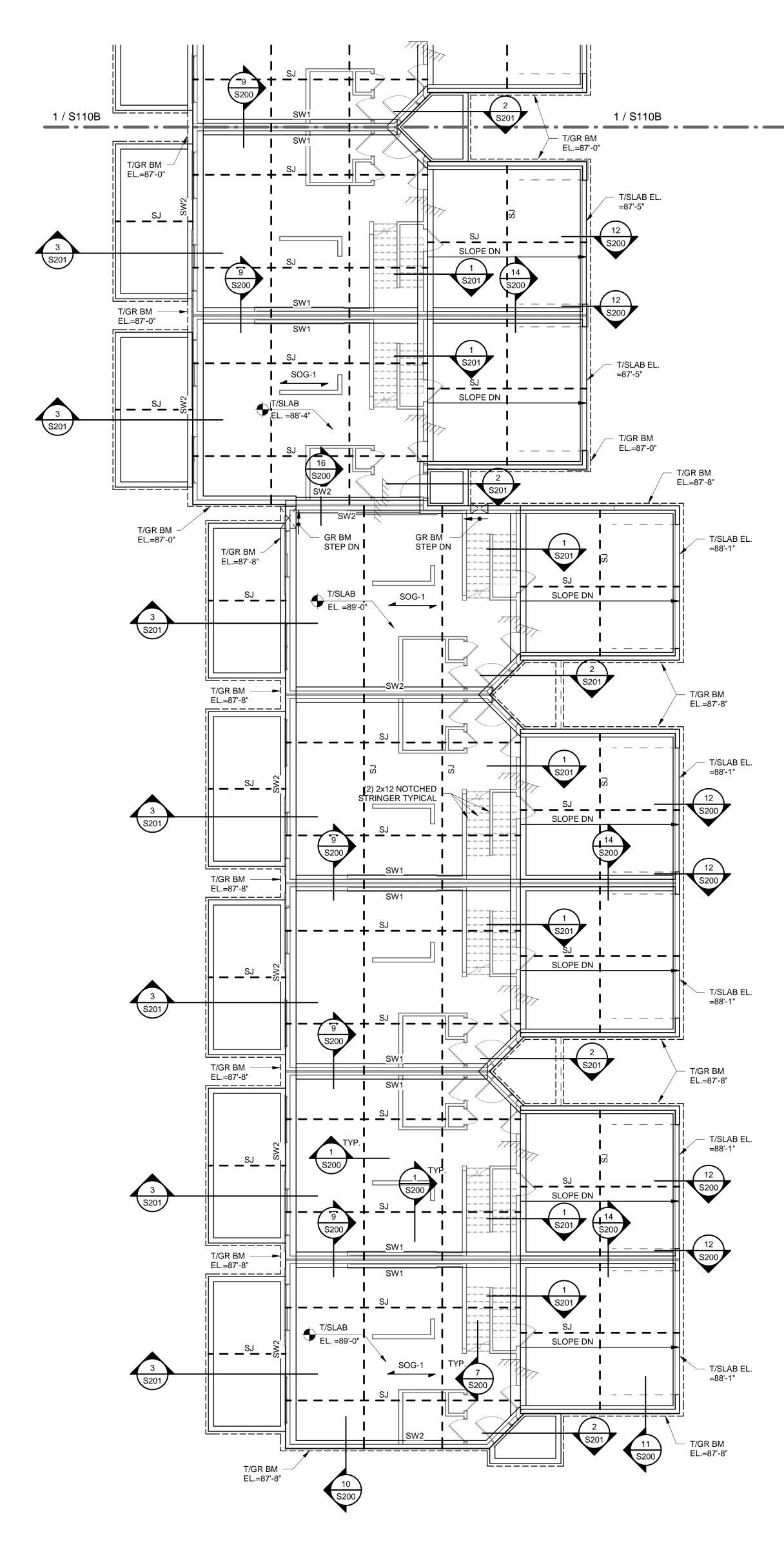
3 GROUP 9 - ROOF FRAMING PLAN

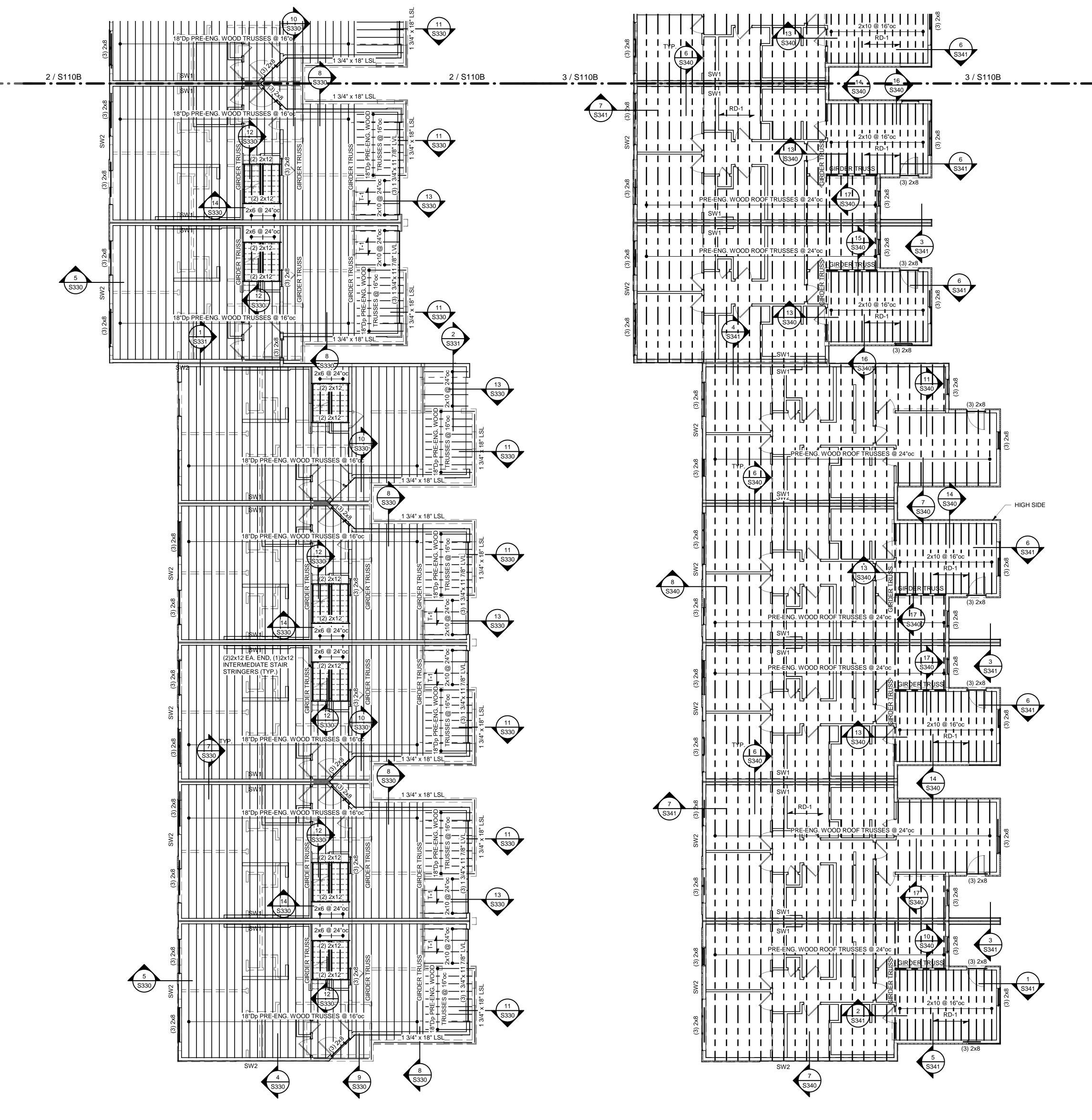






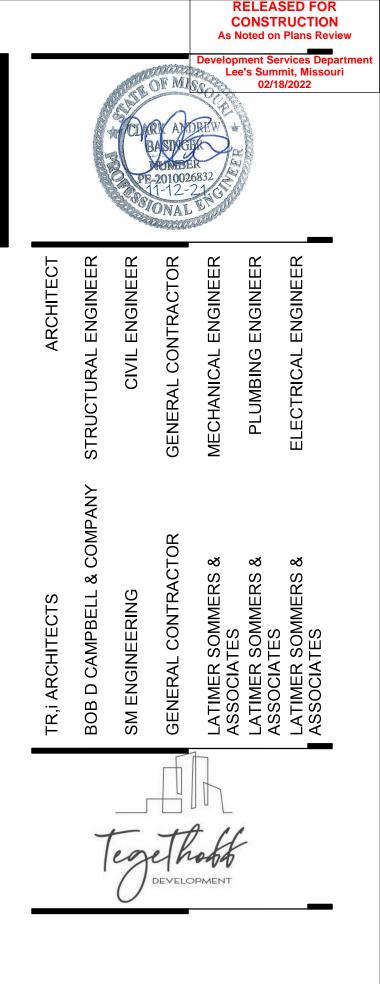
1 GROUP 10 - FOUNDATION PLAN

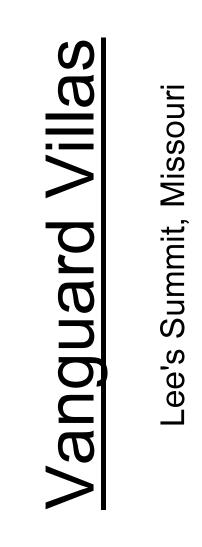


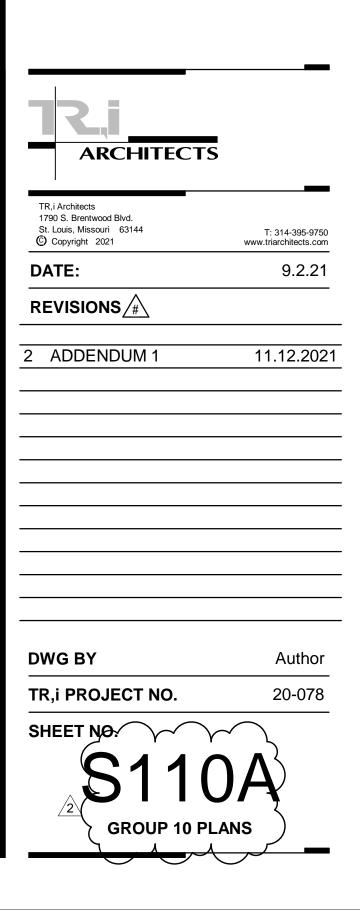


2 GROUP 10 - SECOND FLOOR FRAMING PLAN

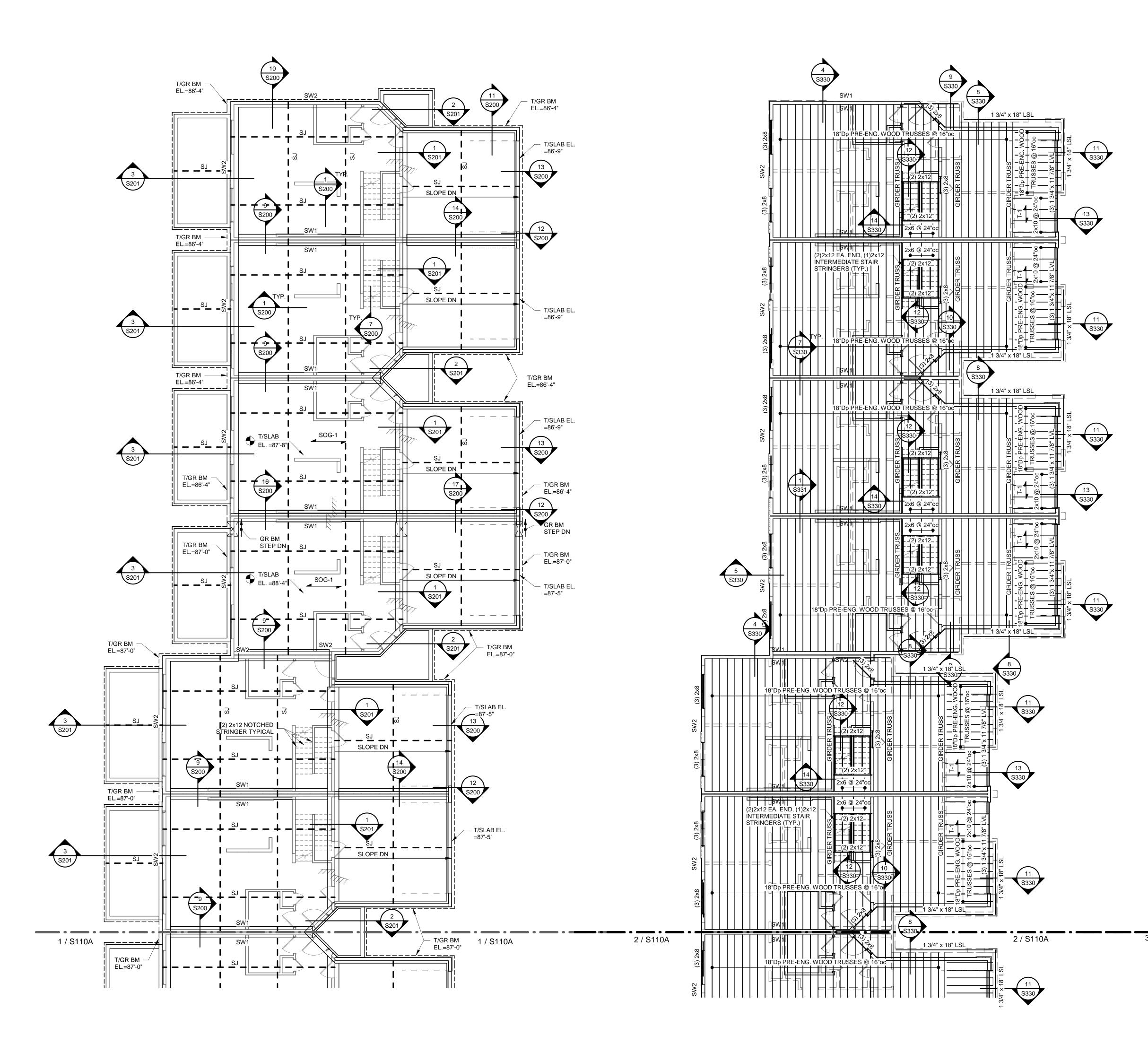
3 GROUP 10 - ROOF FRAMING PLAN



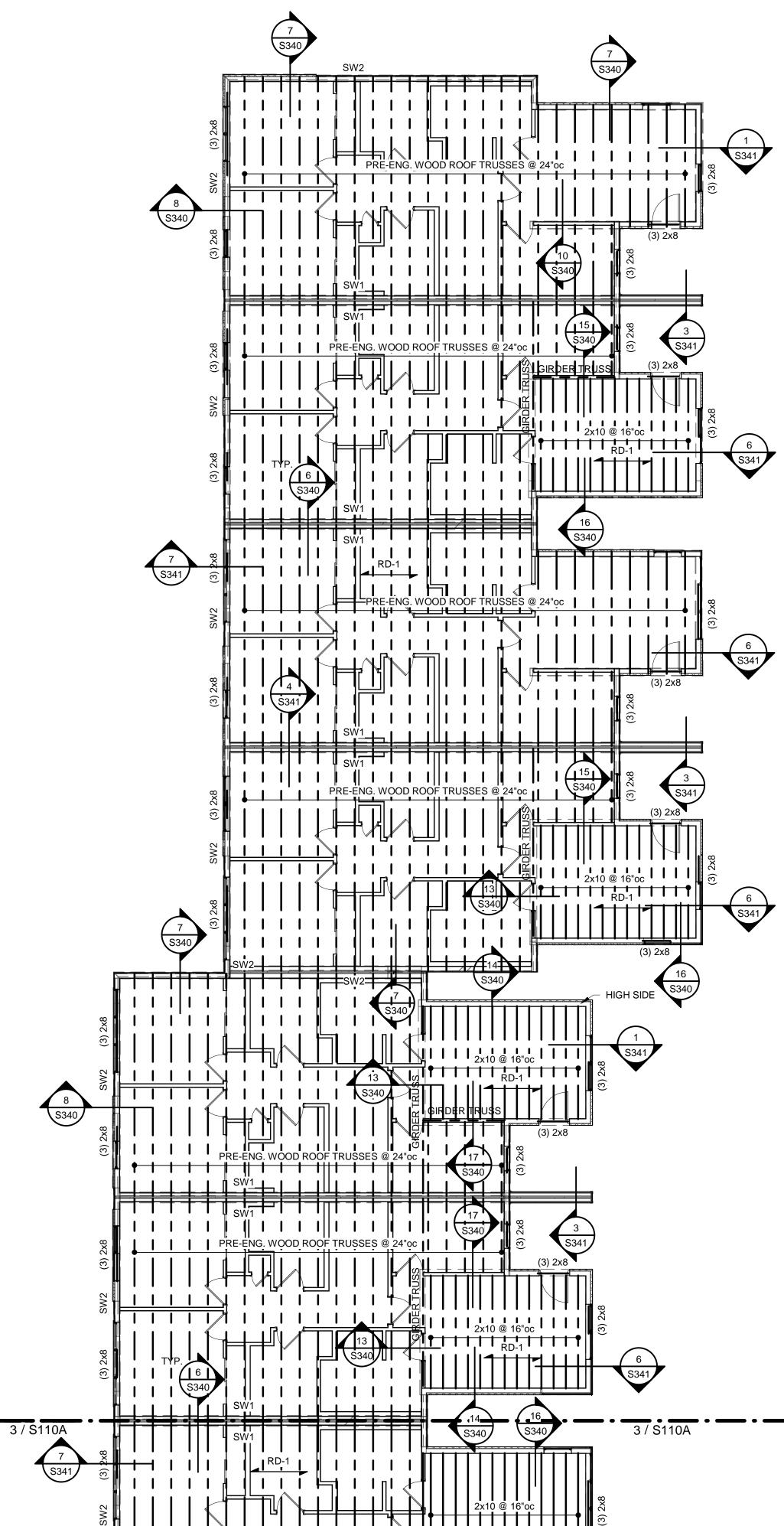




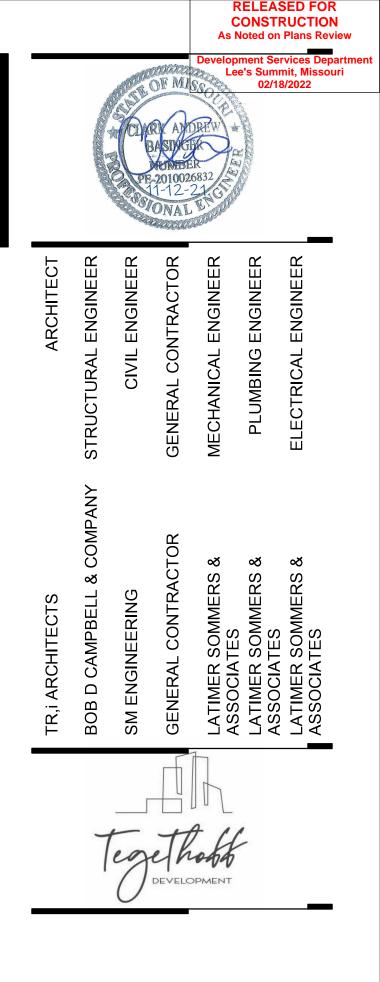
1 GROUP 10 - FOUNDATION PLAN

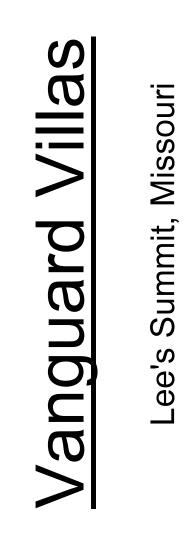


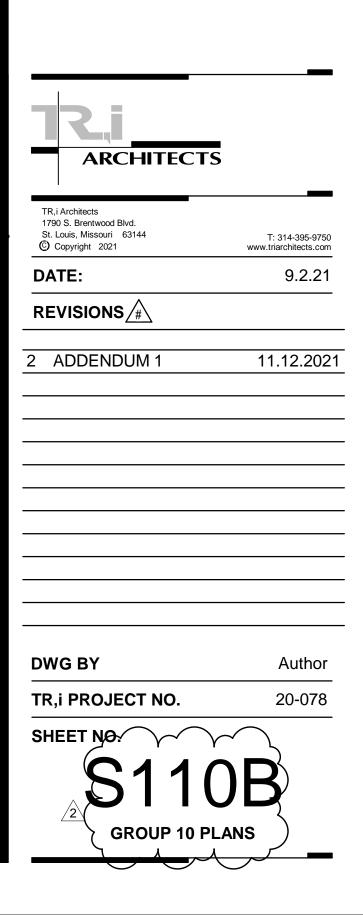
2 GROUP 10 - SECOND FLOOR FRAMING PLAN

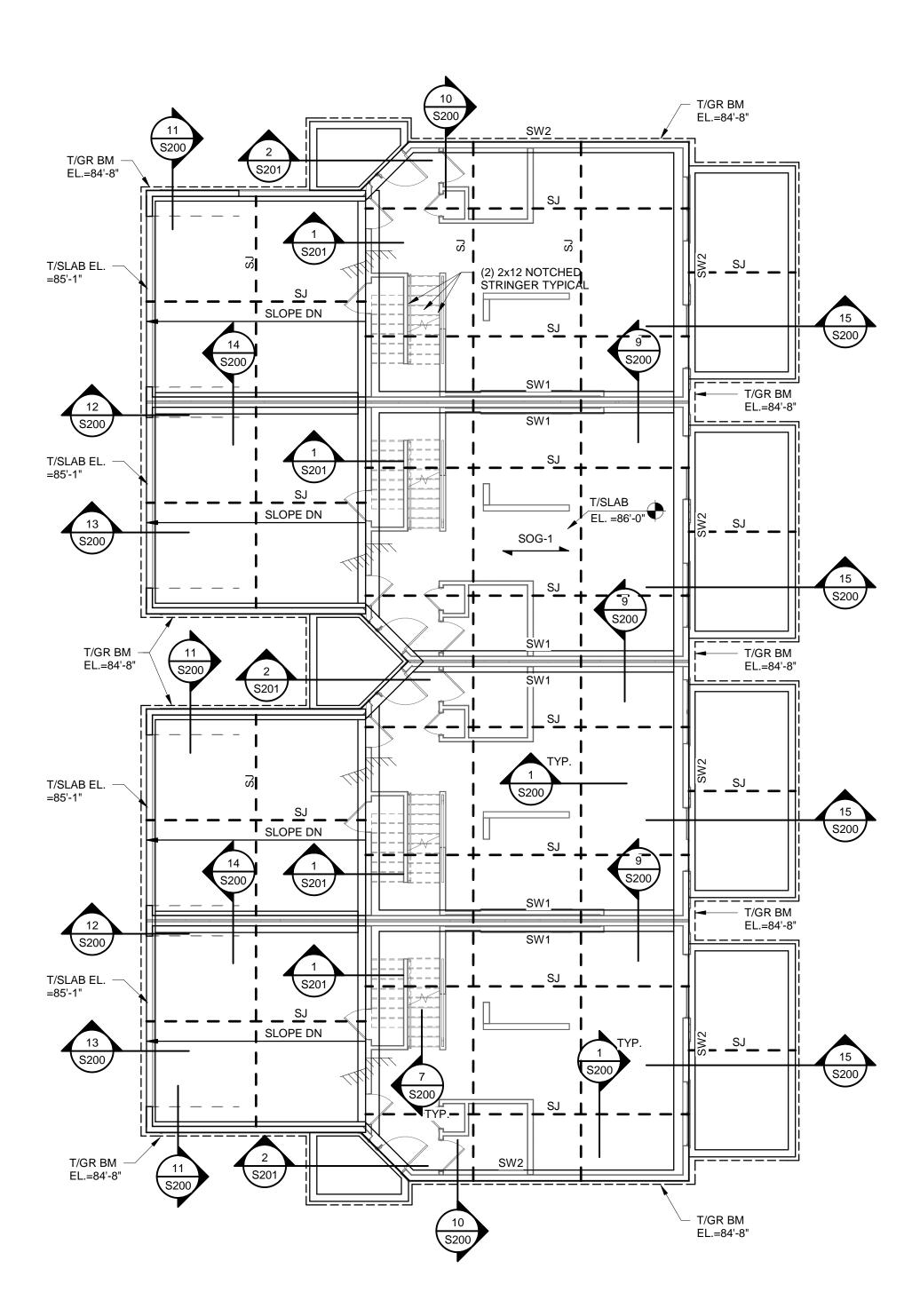


3 GROUP 10 - ROOF FRAMING PLAN

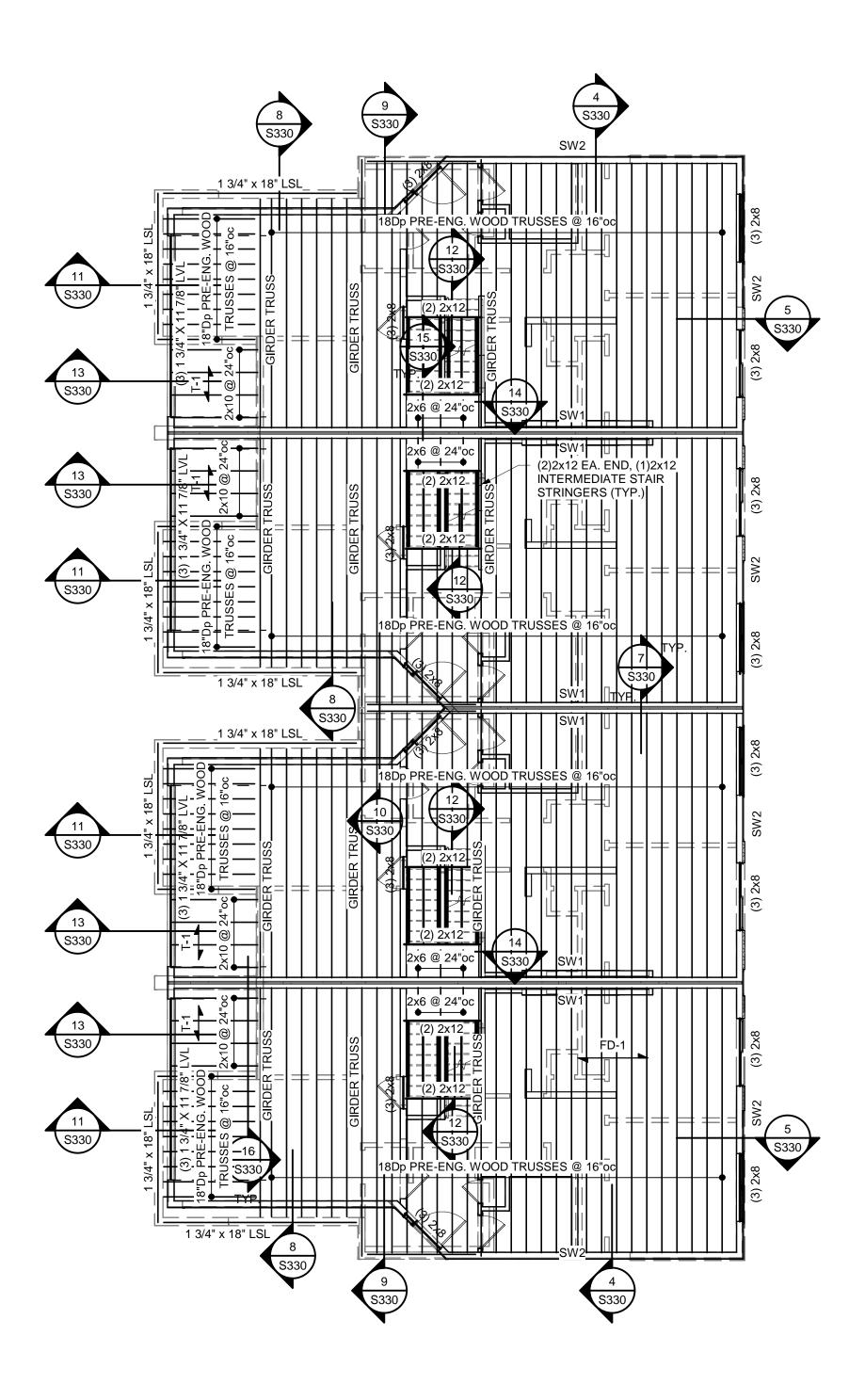




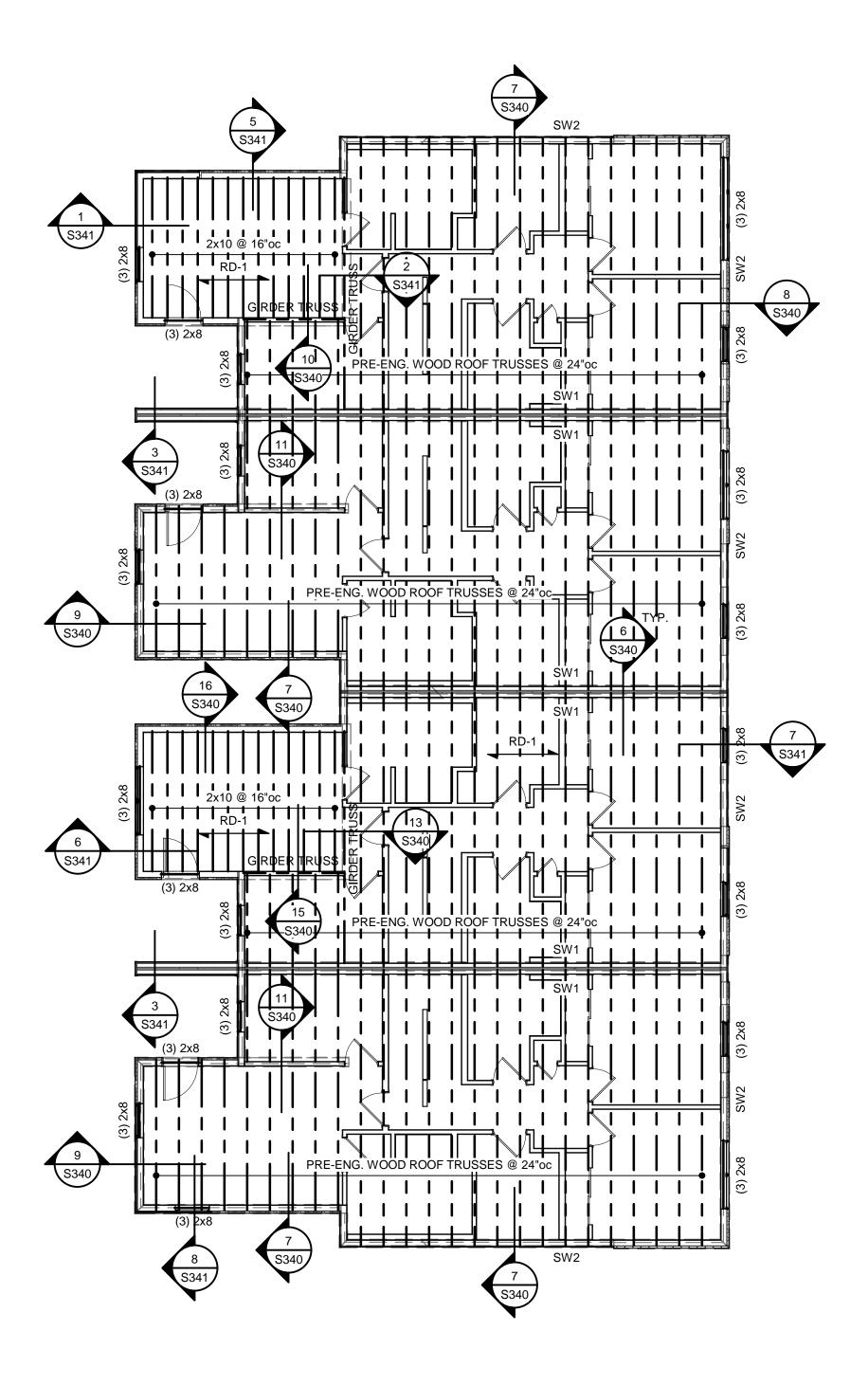




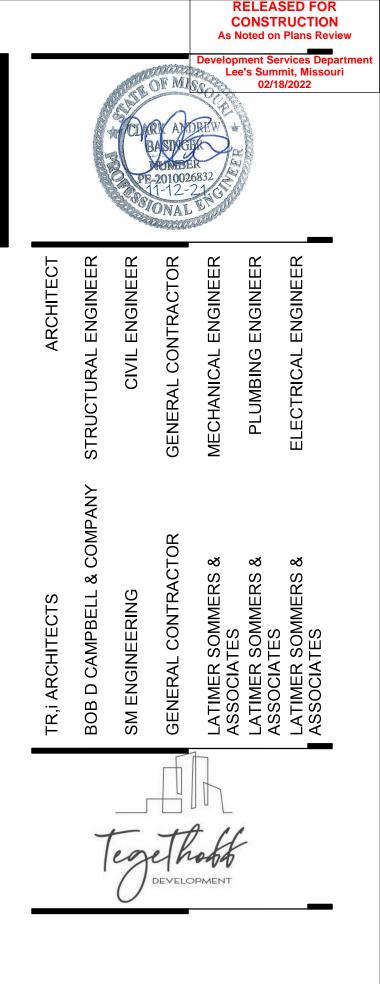
1 GROUP 11 - FOUNDATION PLAN

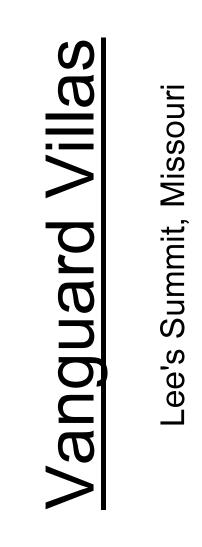


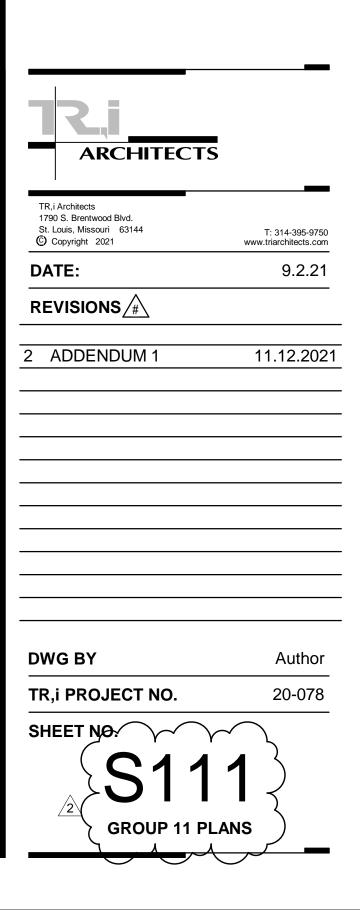
2 GROUP 11 - SECOND FLOOR FRAMING PLAN

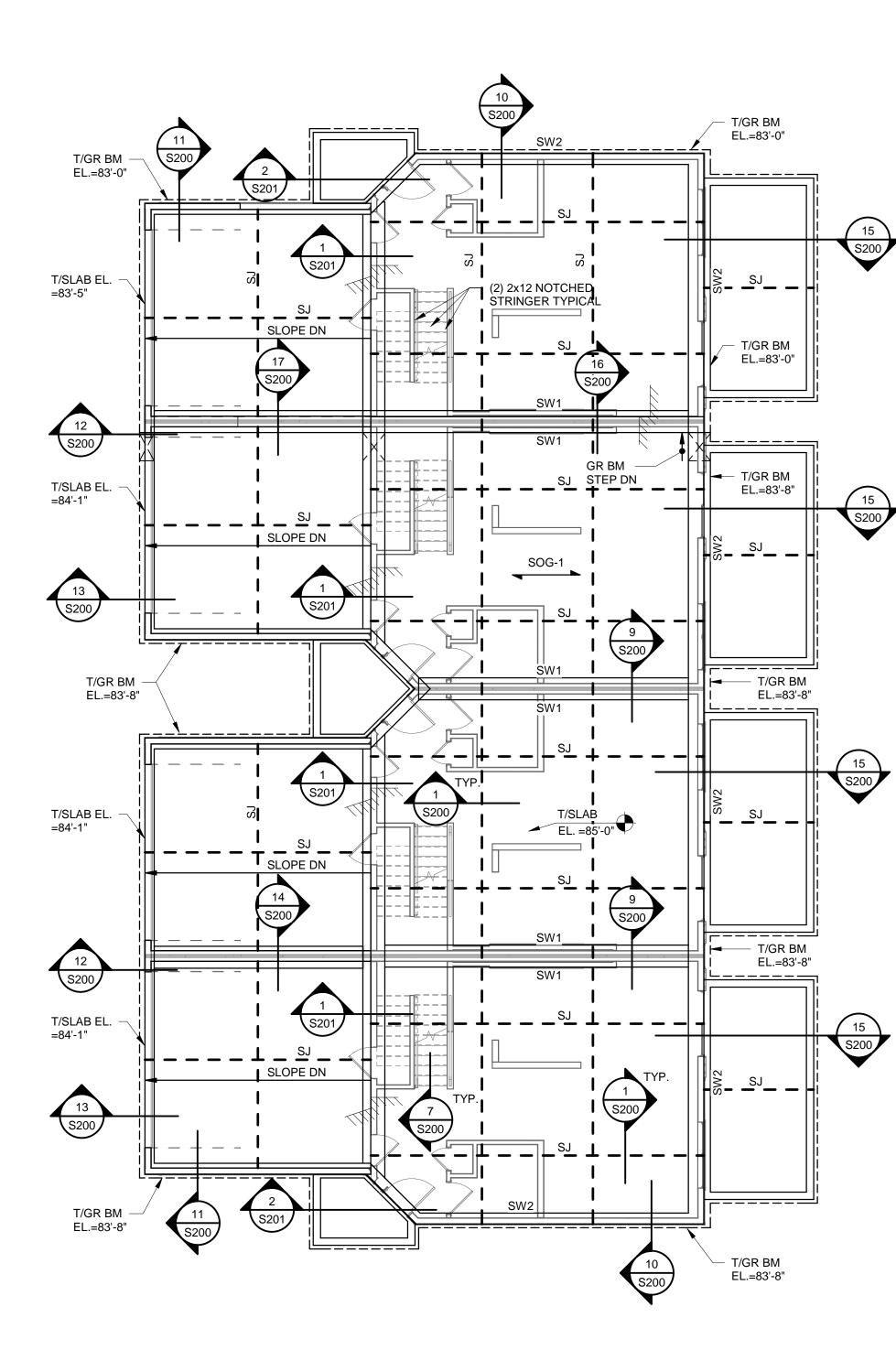


3 GROUP 11 - ROOF FRAMING PLAN

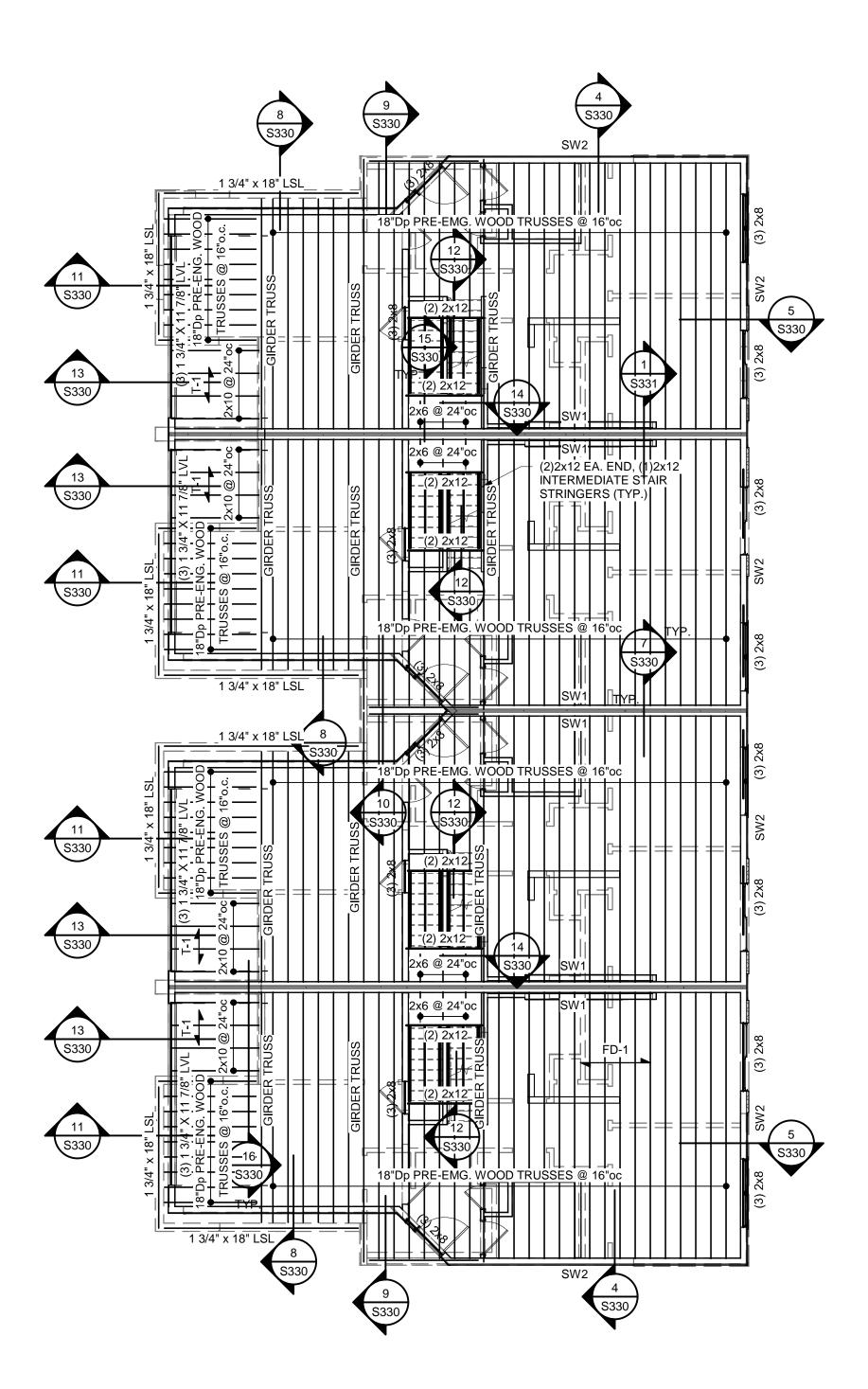




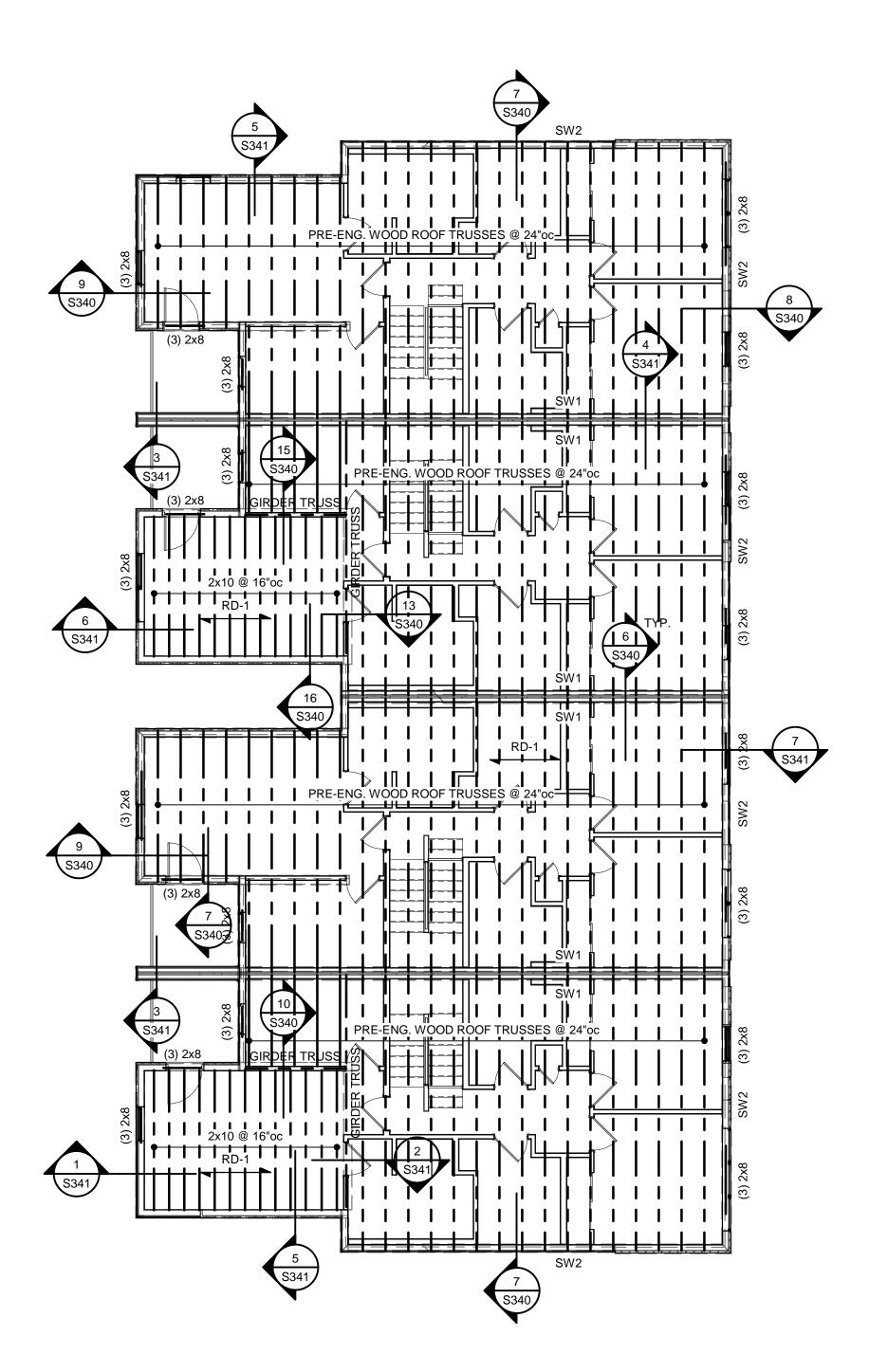




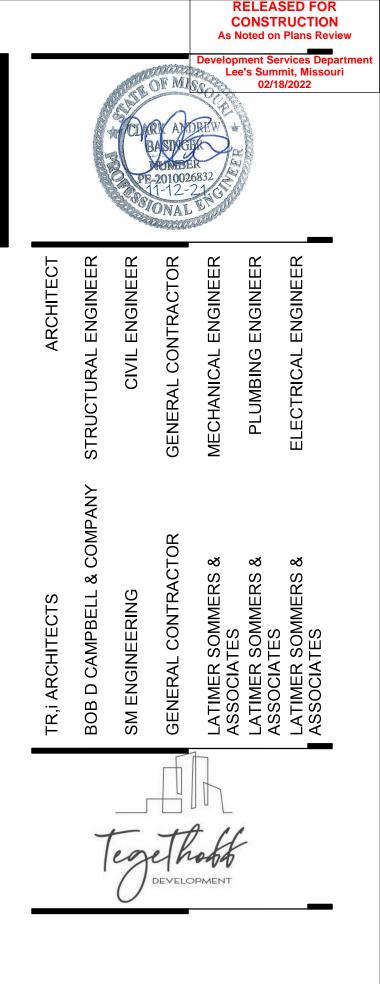
1 GROUP 12 - FOUNDATION PLAN

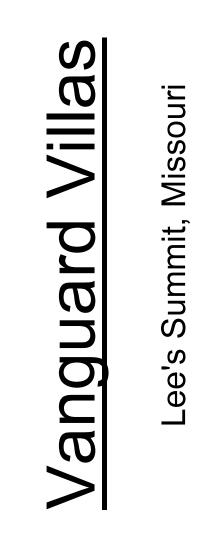


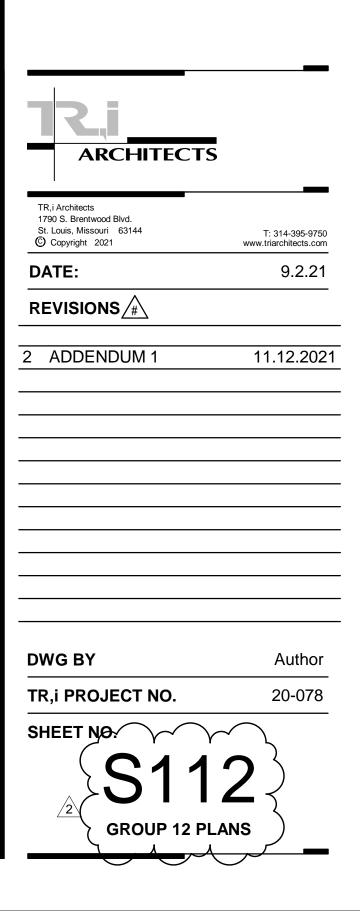
2 GROUP 12 - SECOND FLOOR FRAMING PLAN

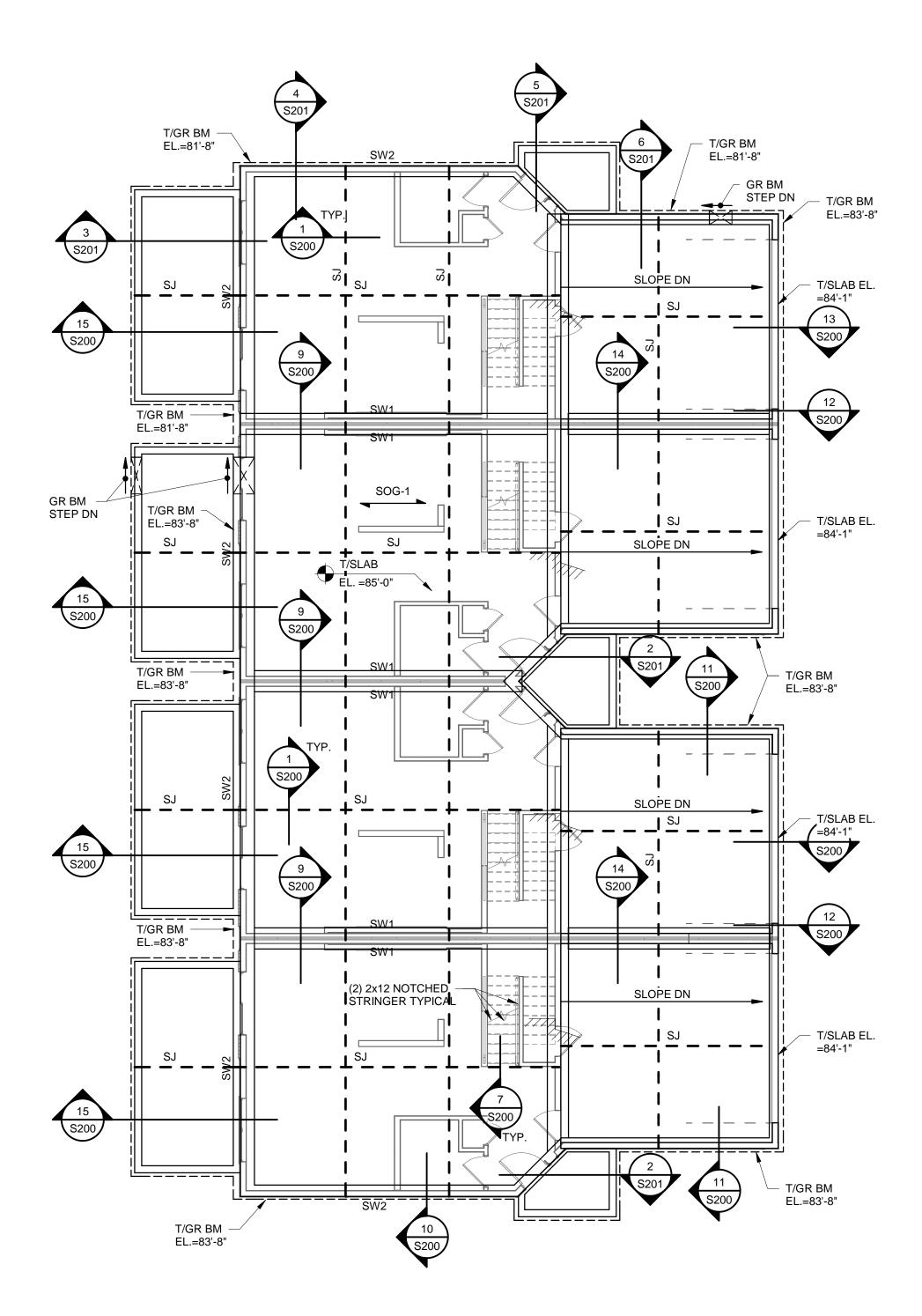


3 GROUP 12 - ROOF FRAMING PLAN

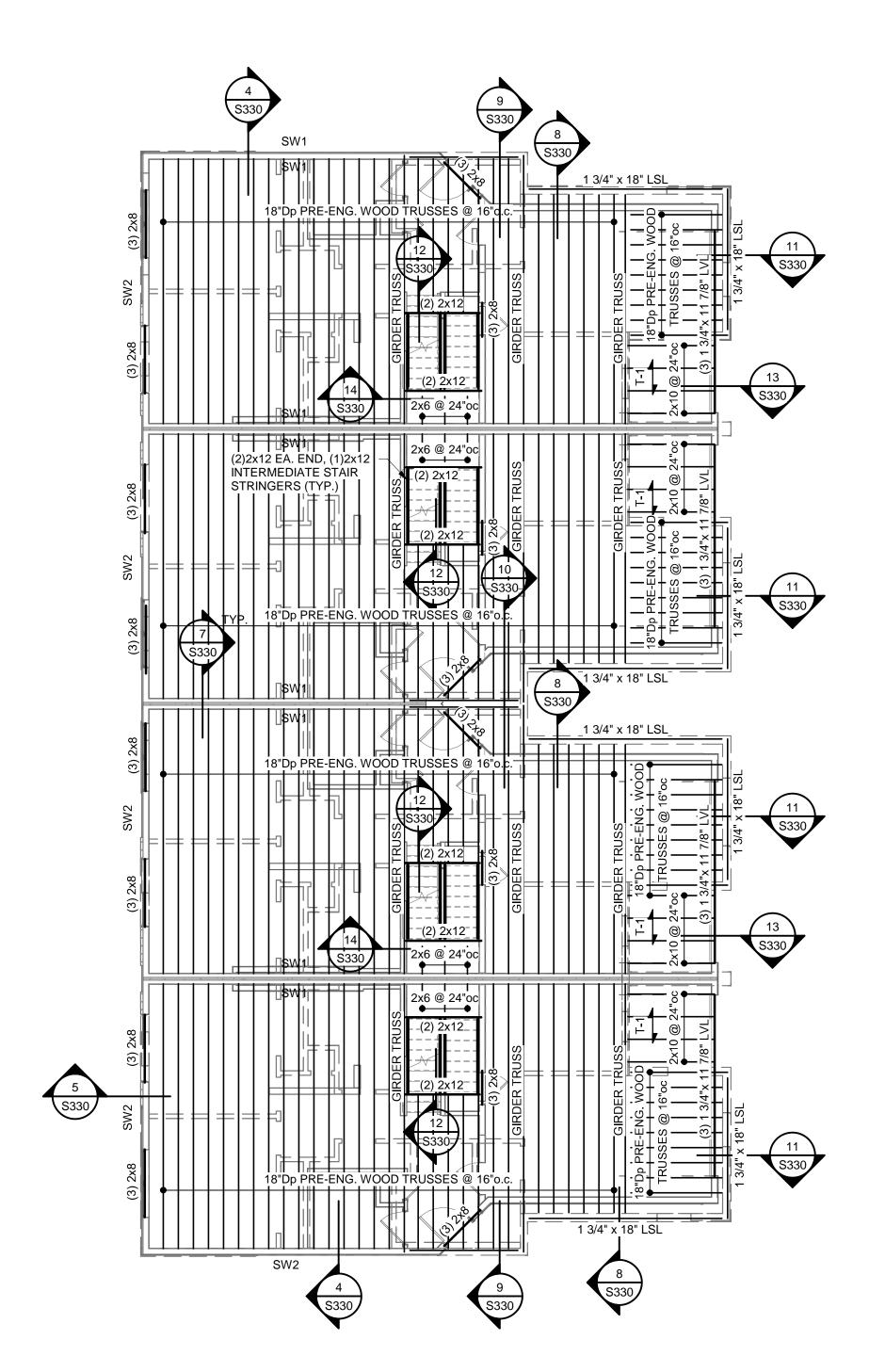




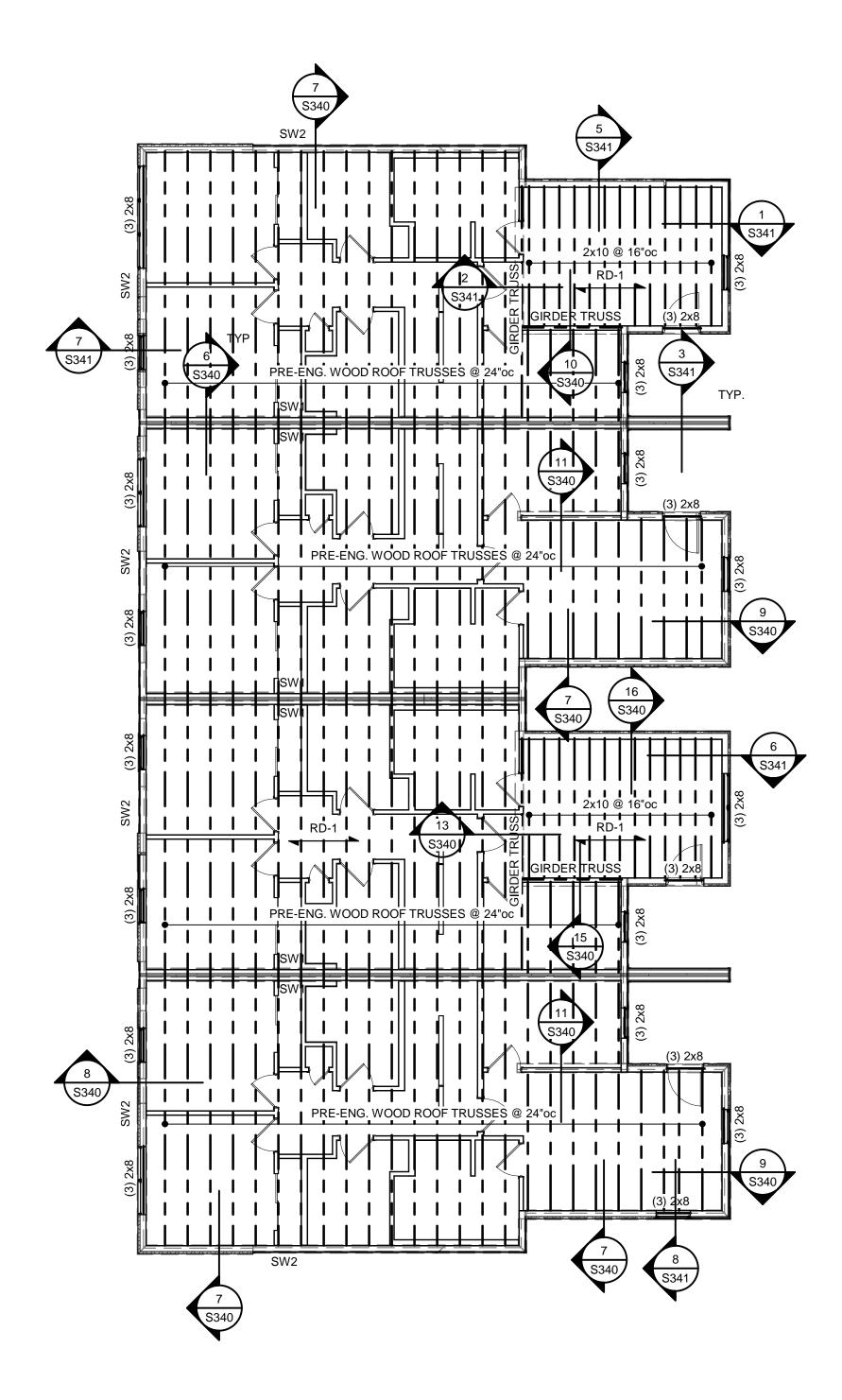




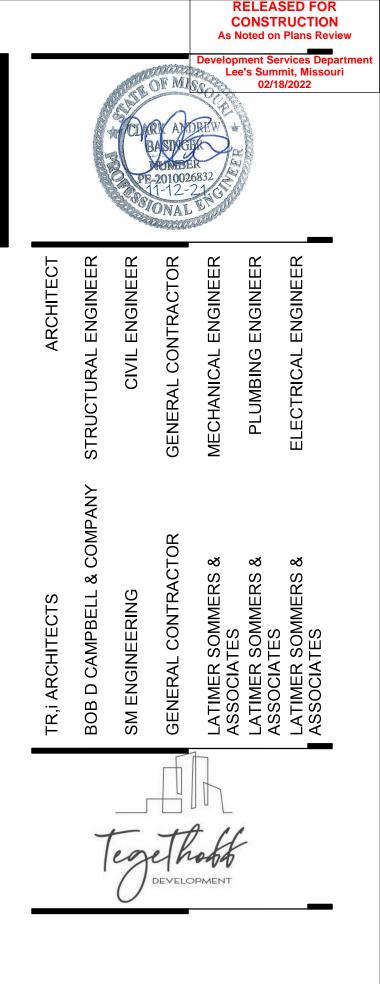
1 GROUP 13 - FOUNDATION PLAN

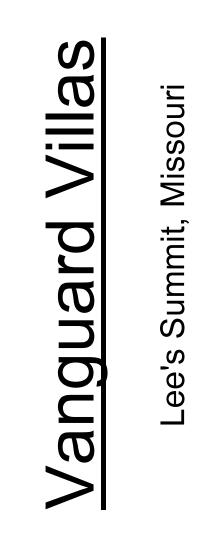


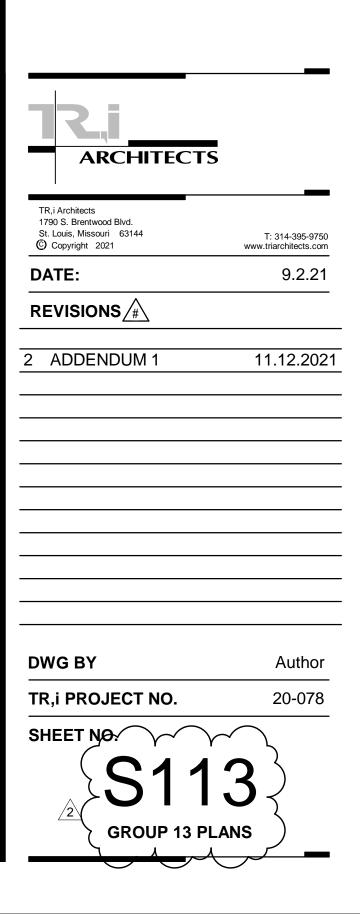
2 GROUP 13 - SECOND FLOOR FRAMING PLAN

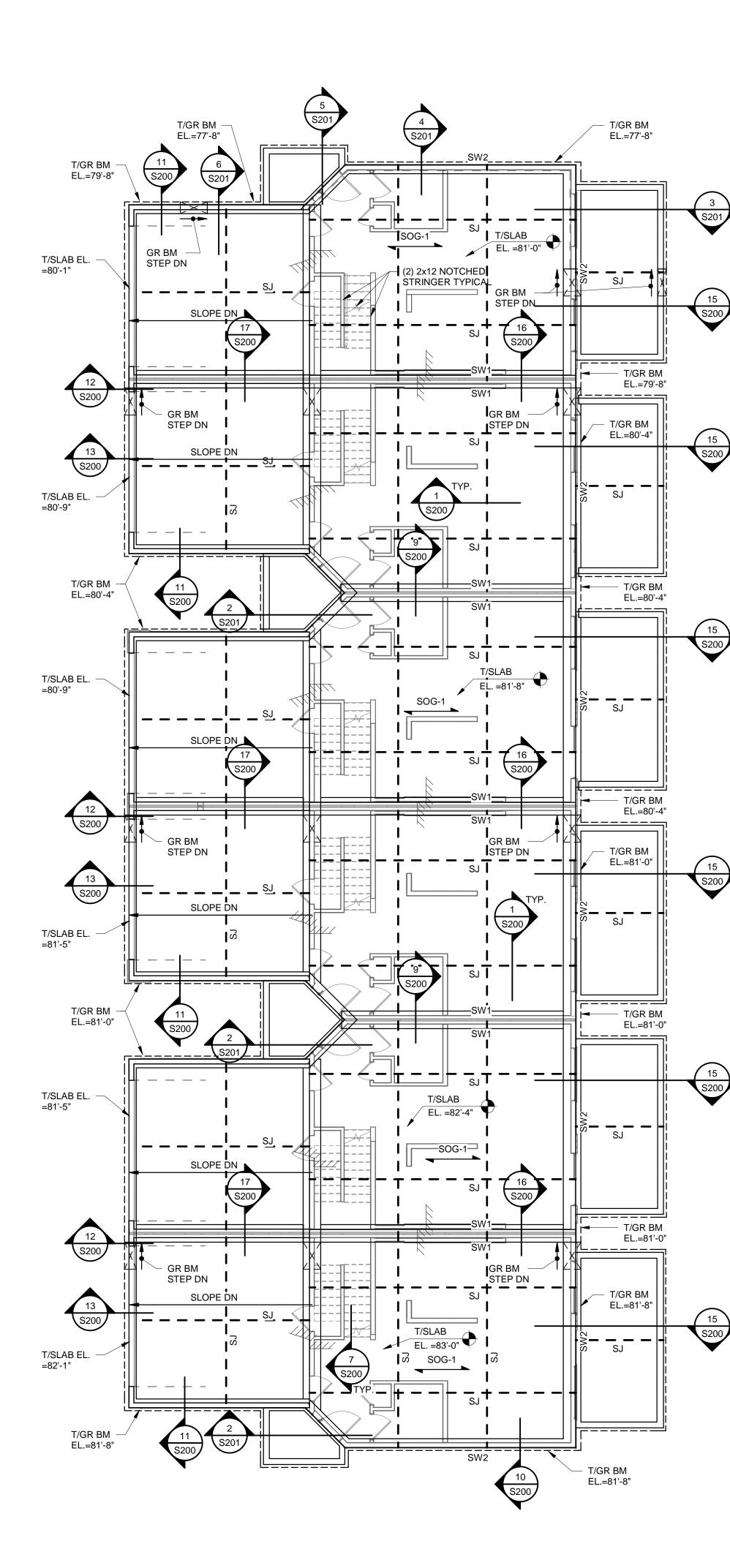


3 GROUP 13 - ROOF FRAMING PLAN



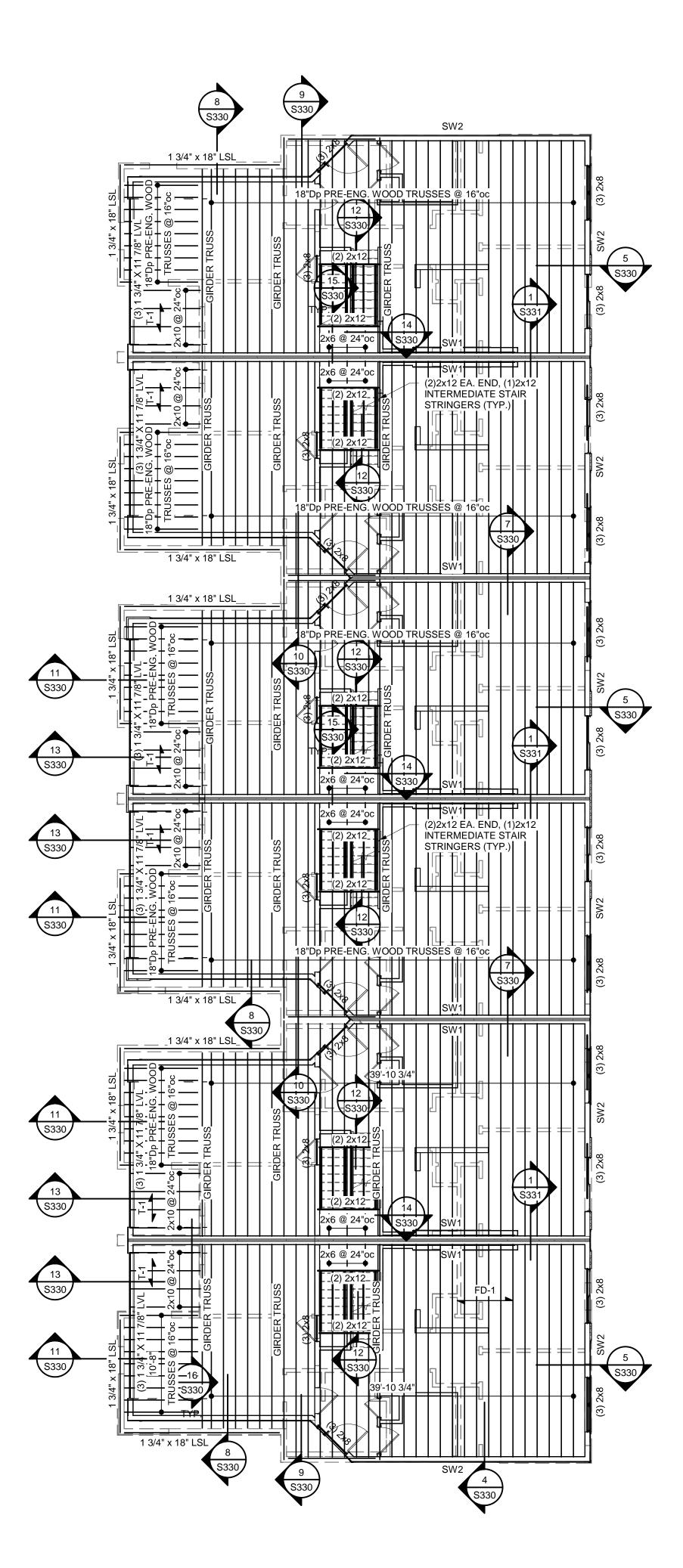




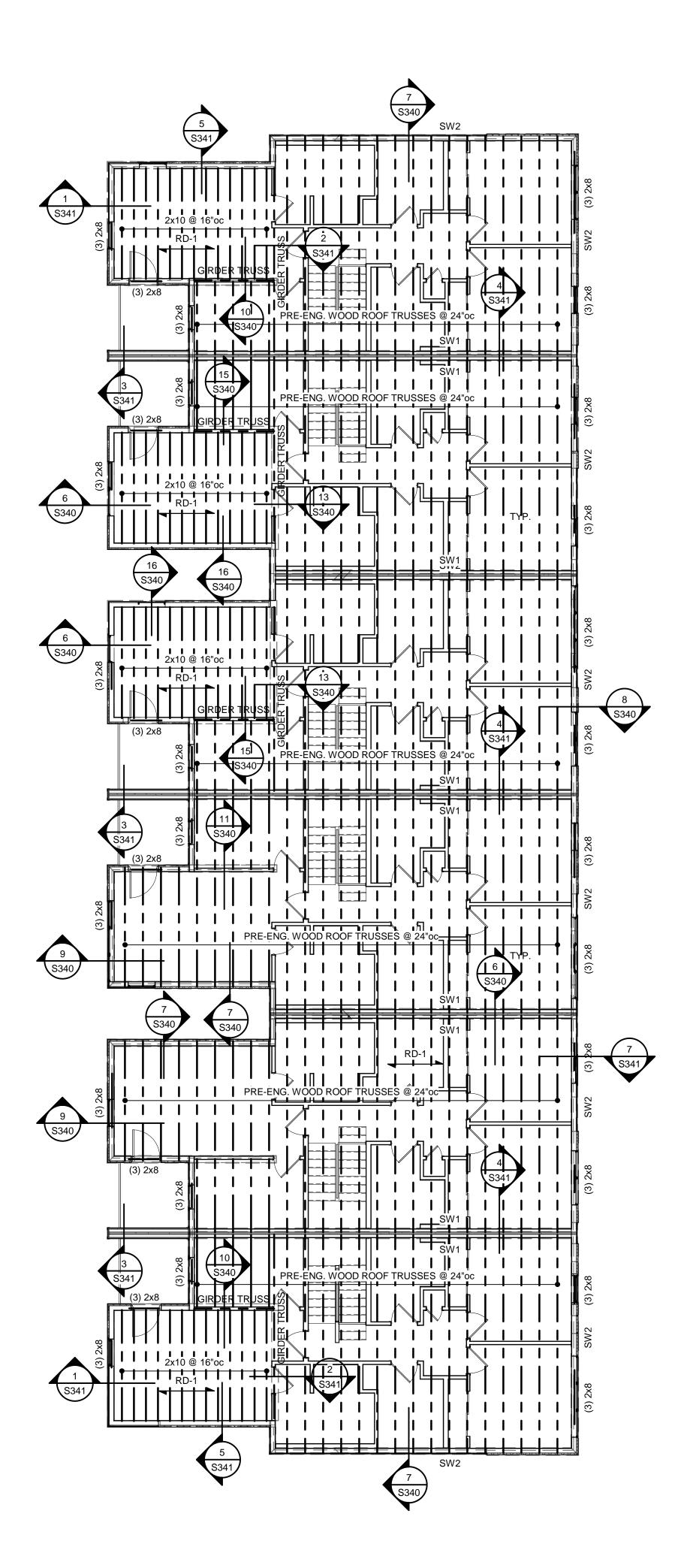


S200

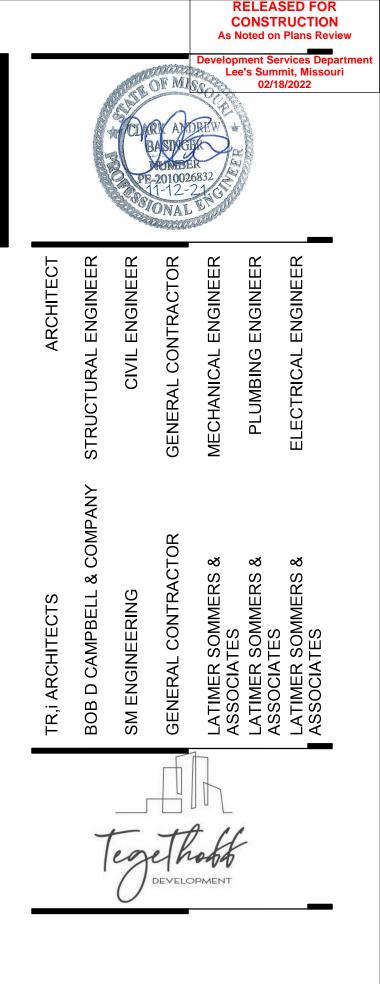
1 GROUP 14 - FOUNDATION PLAN

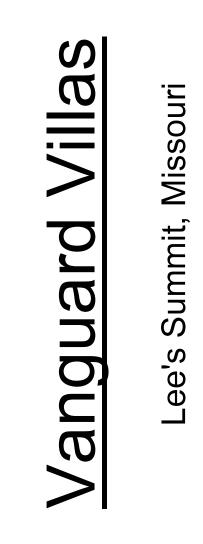


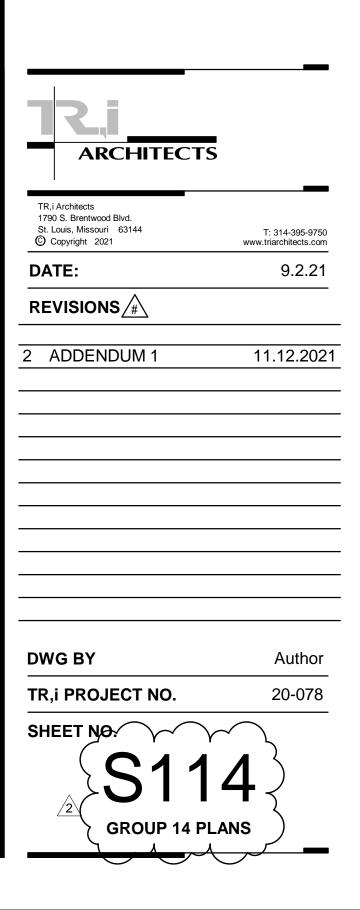
2 GROUP 14 - SECOND FLOOR FRAMING PLAN

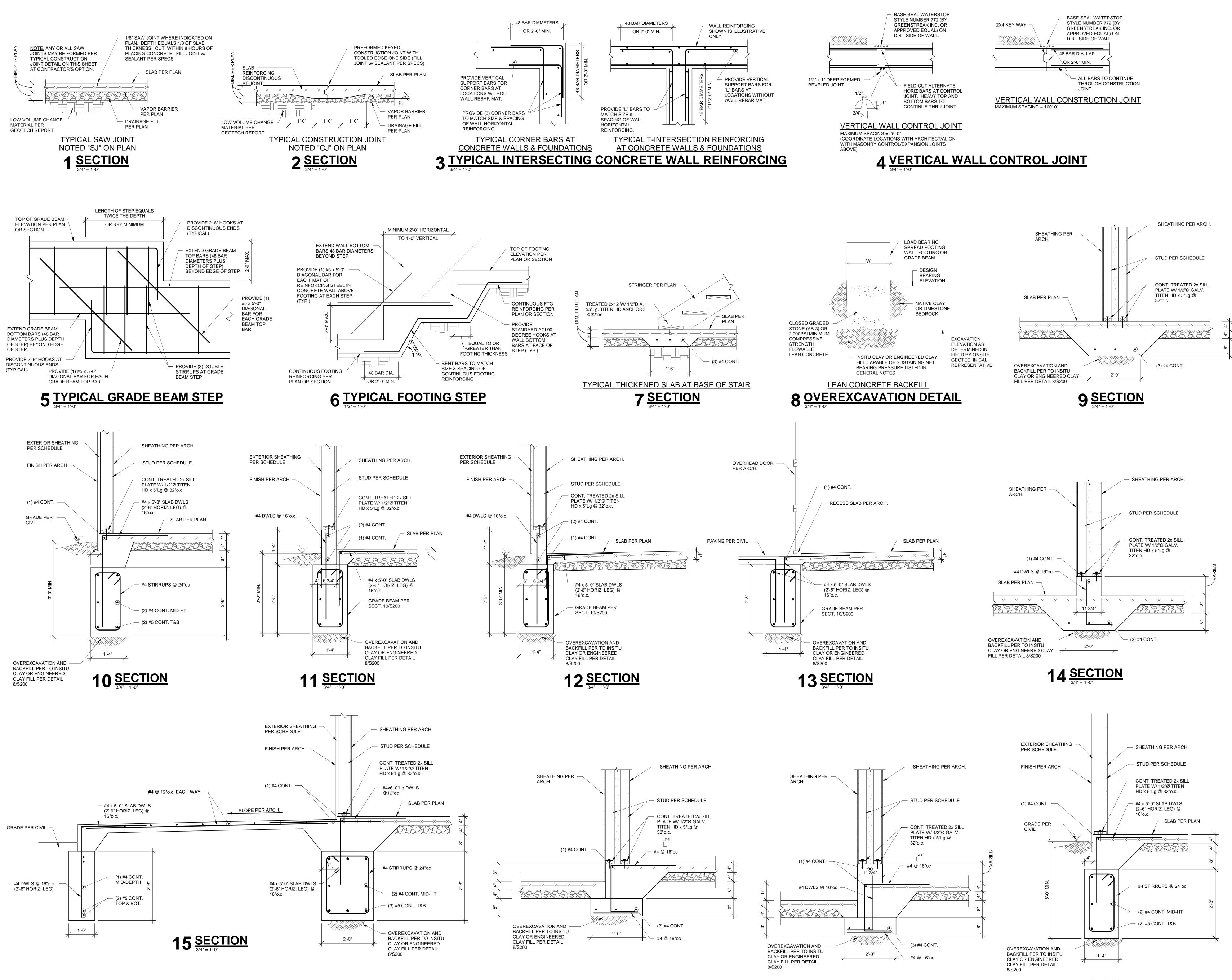


3 GROUP 14 - ROOF FRAMING PLAN



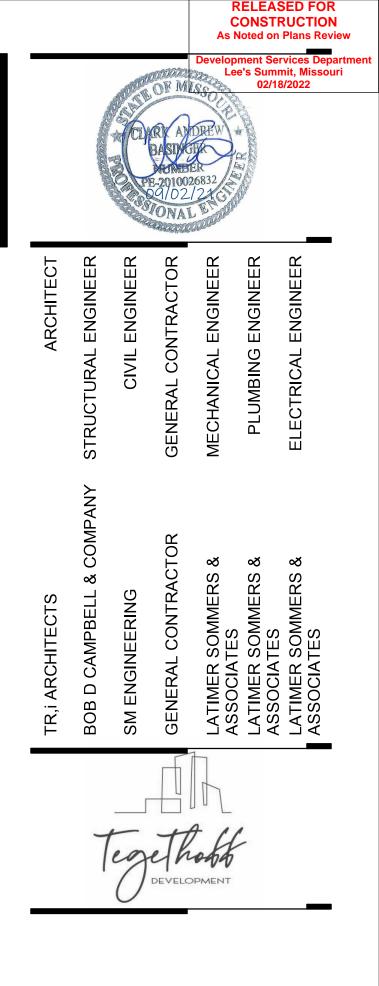


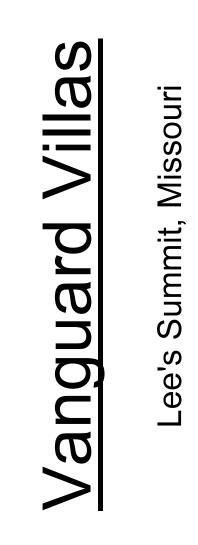


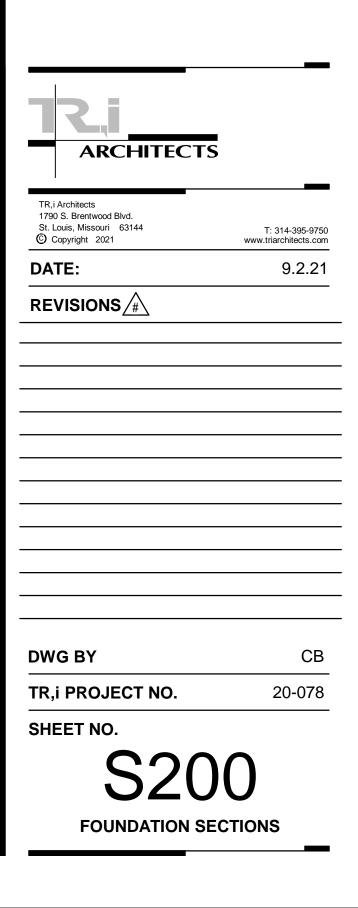


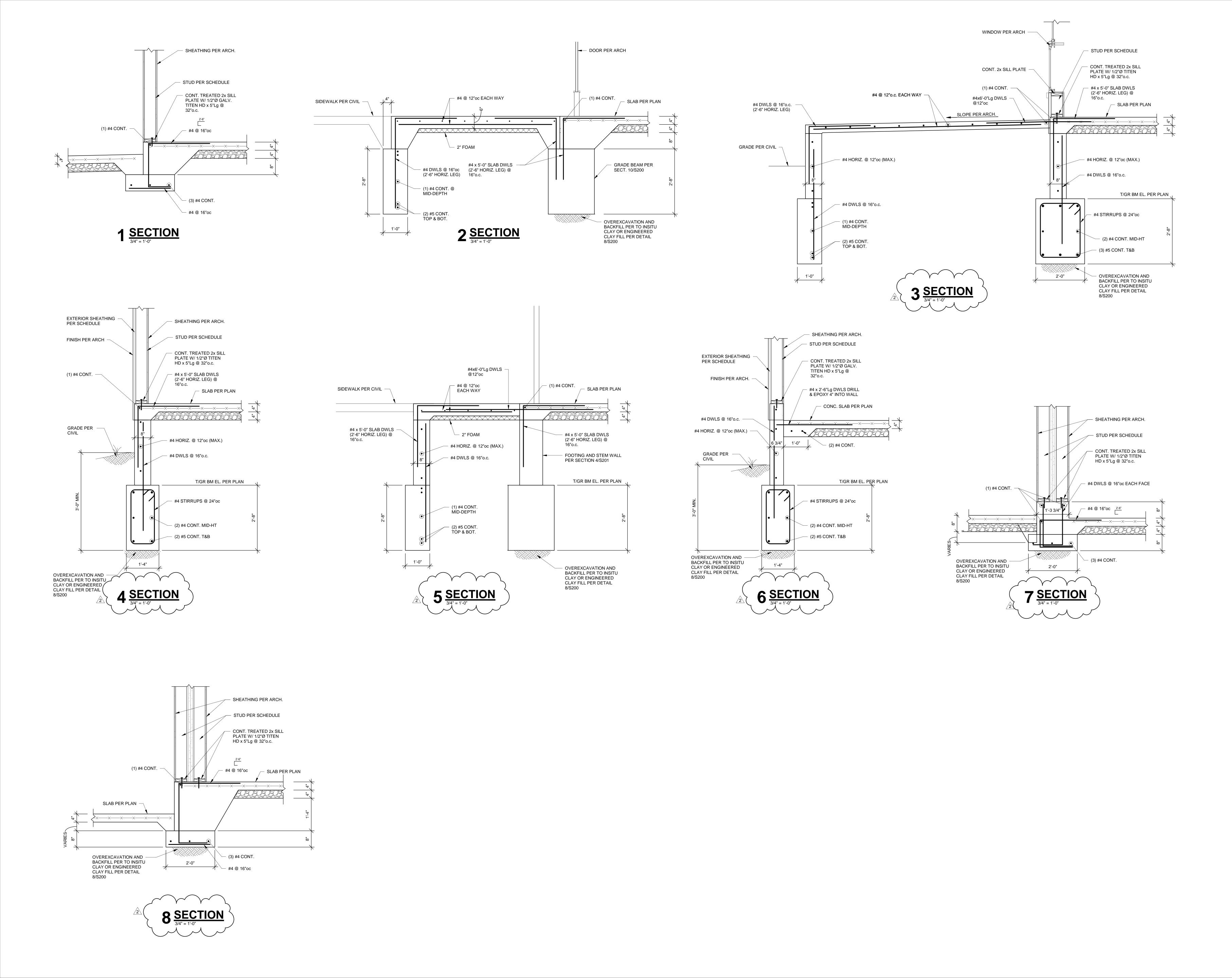
$16 \underline{\text{SECTION}}_{3/4"} = 1^{-0"}$

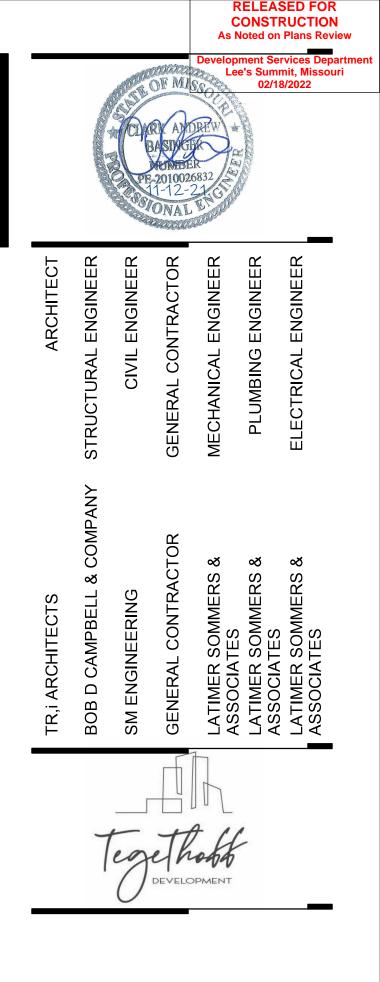


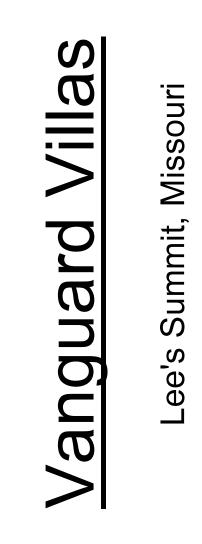


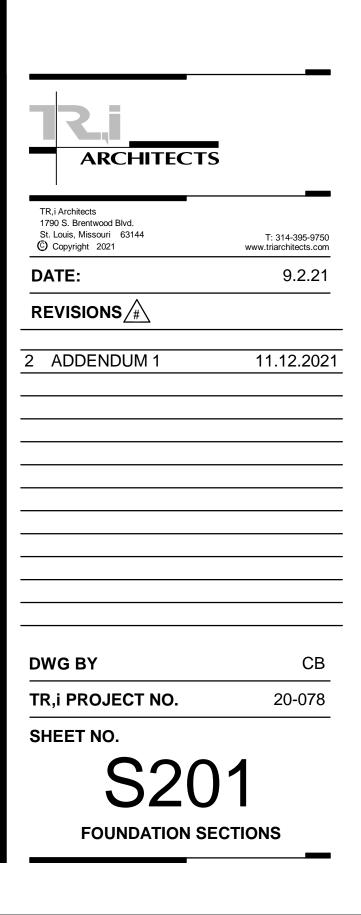


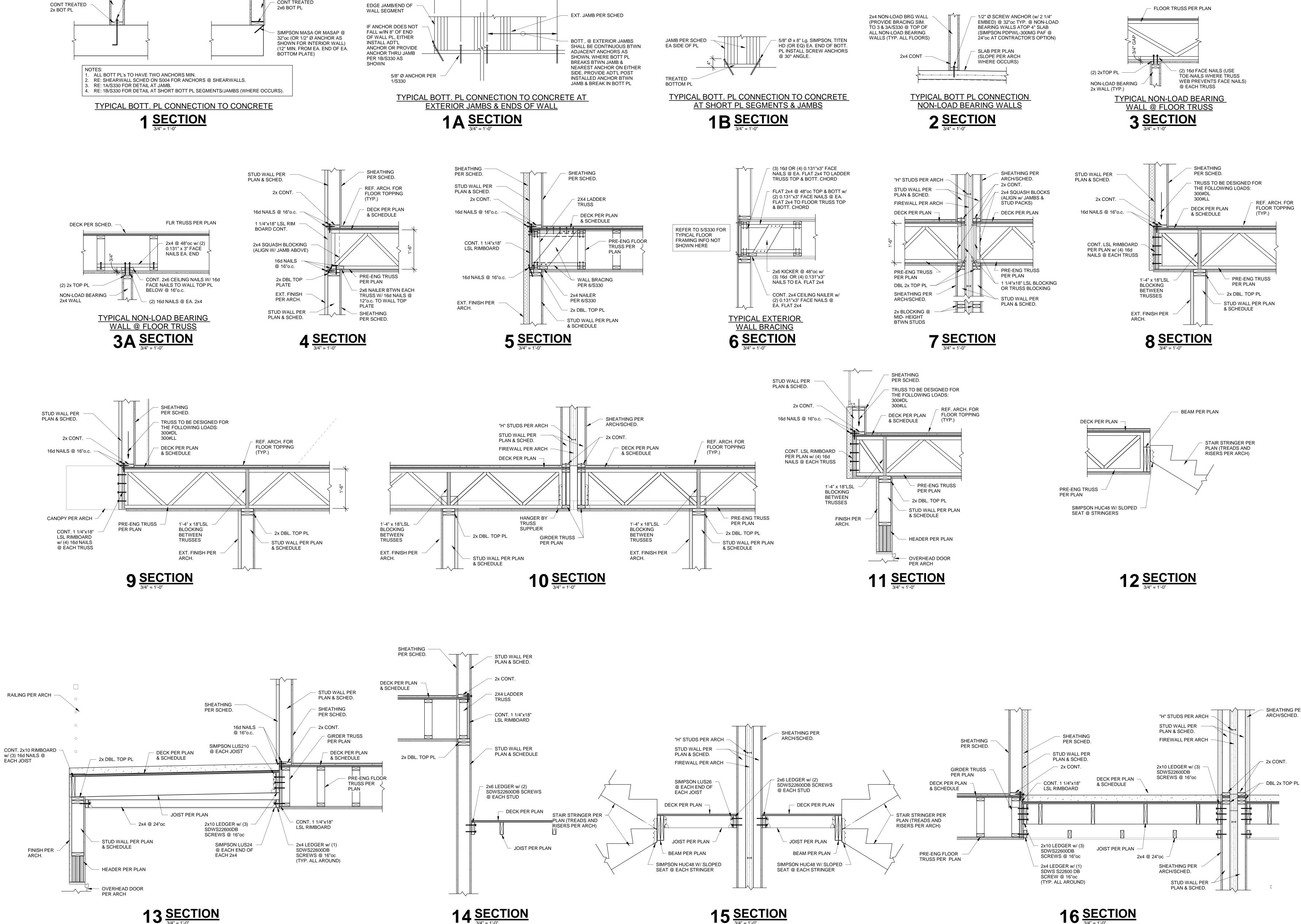


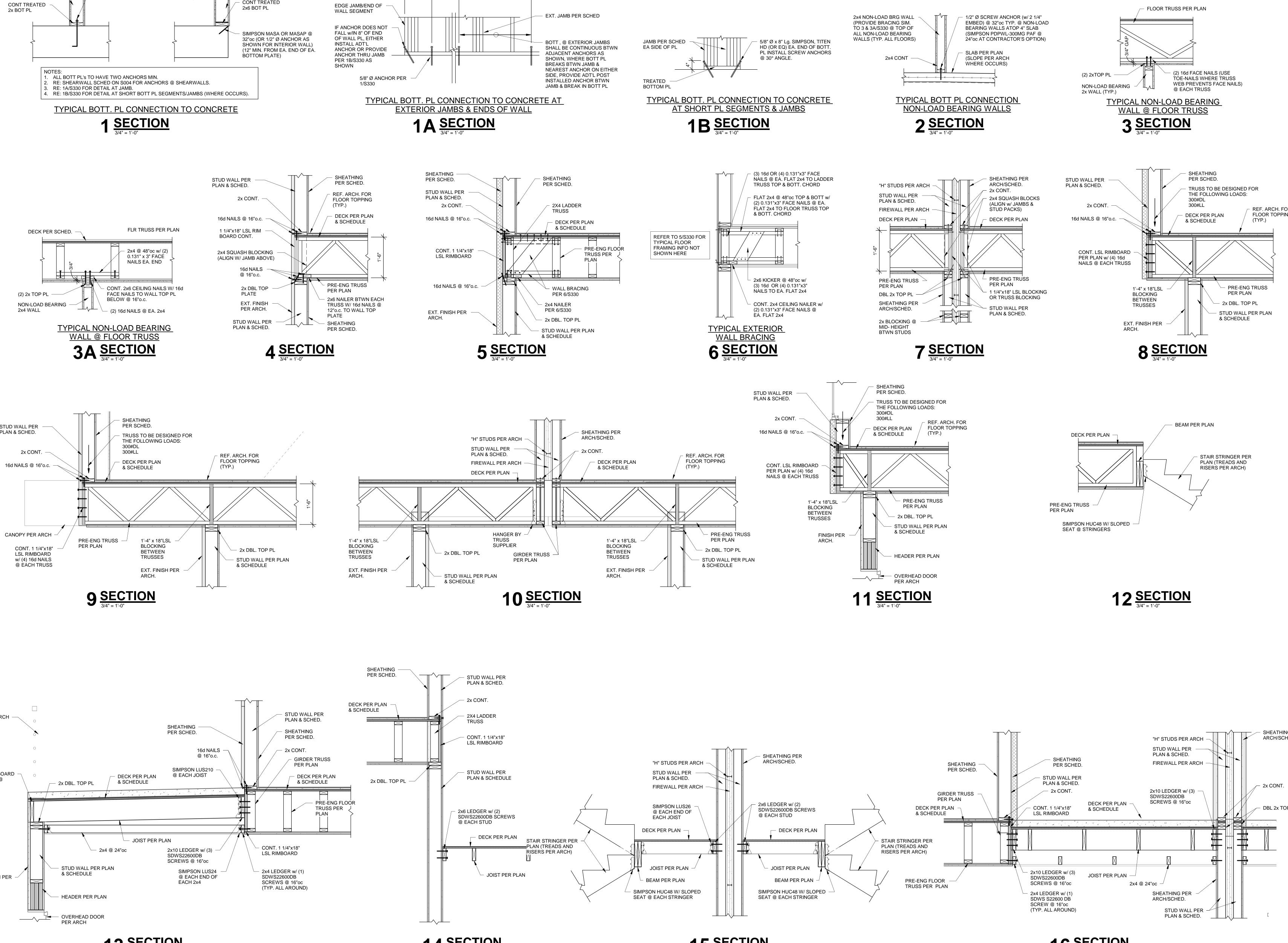


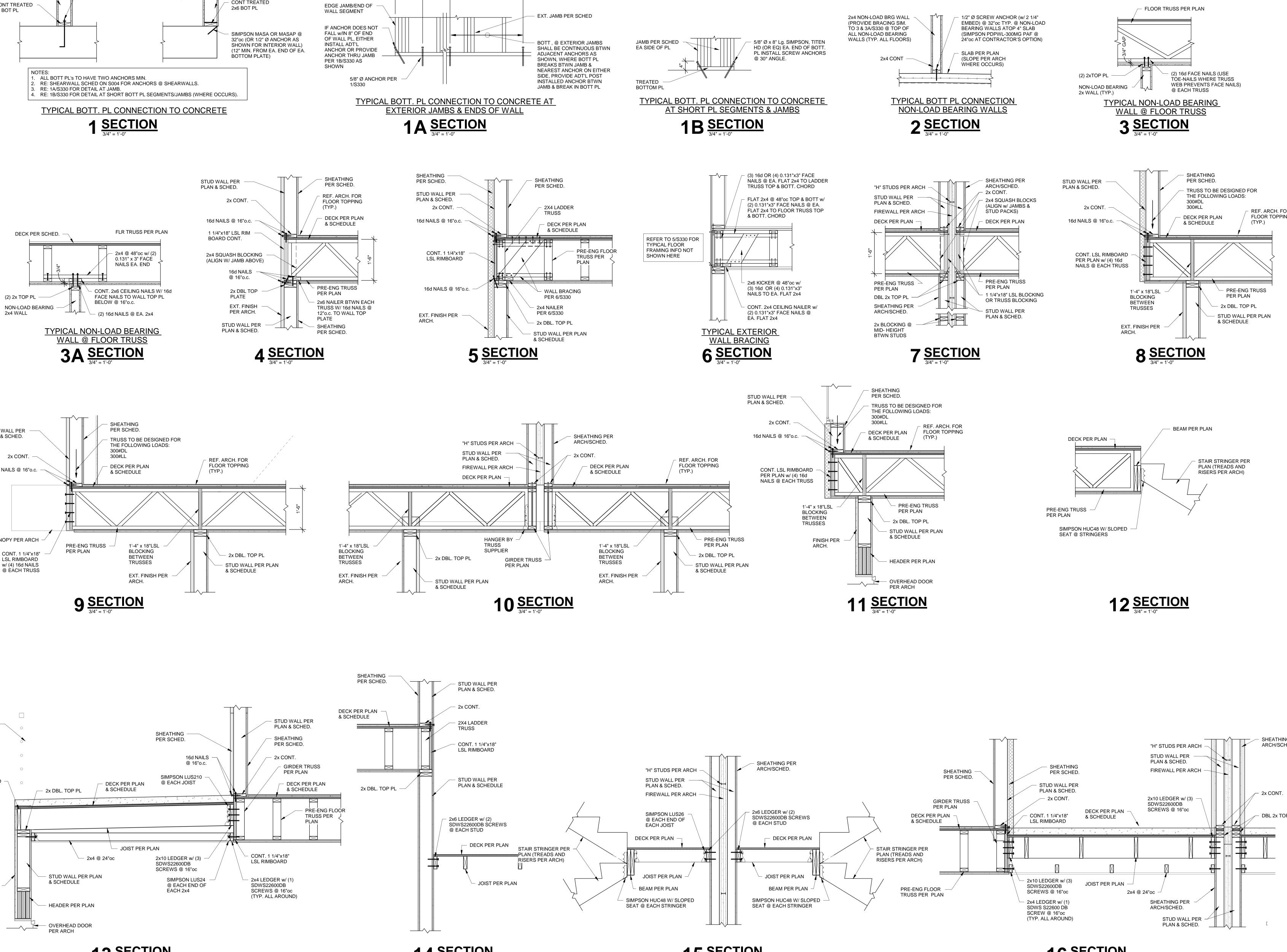


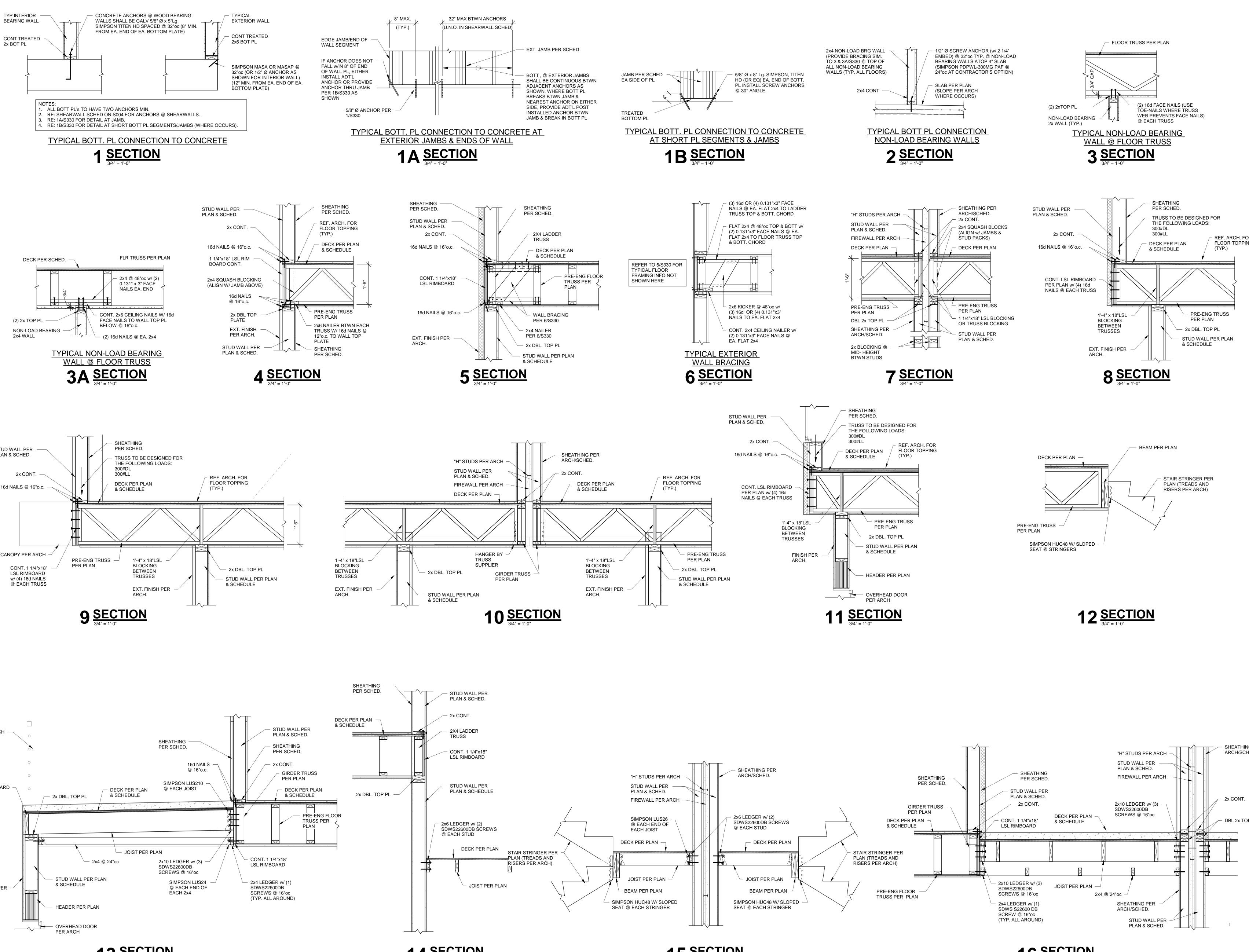








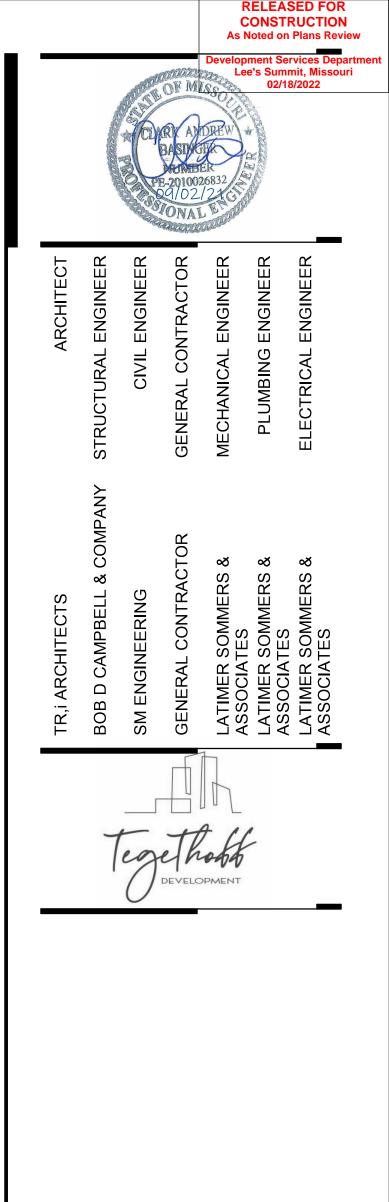


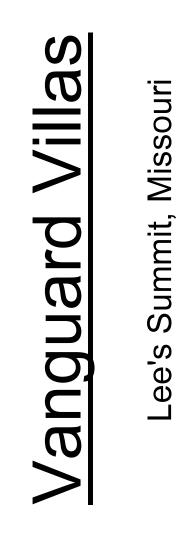


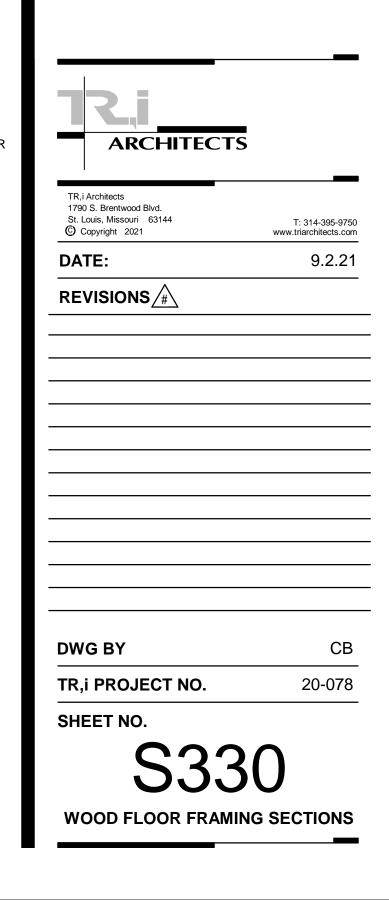
14 SECTION $\frac{3}{4'} = 1'-0''$

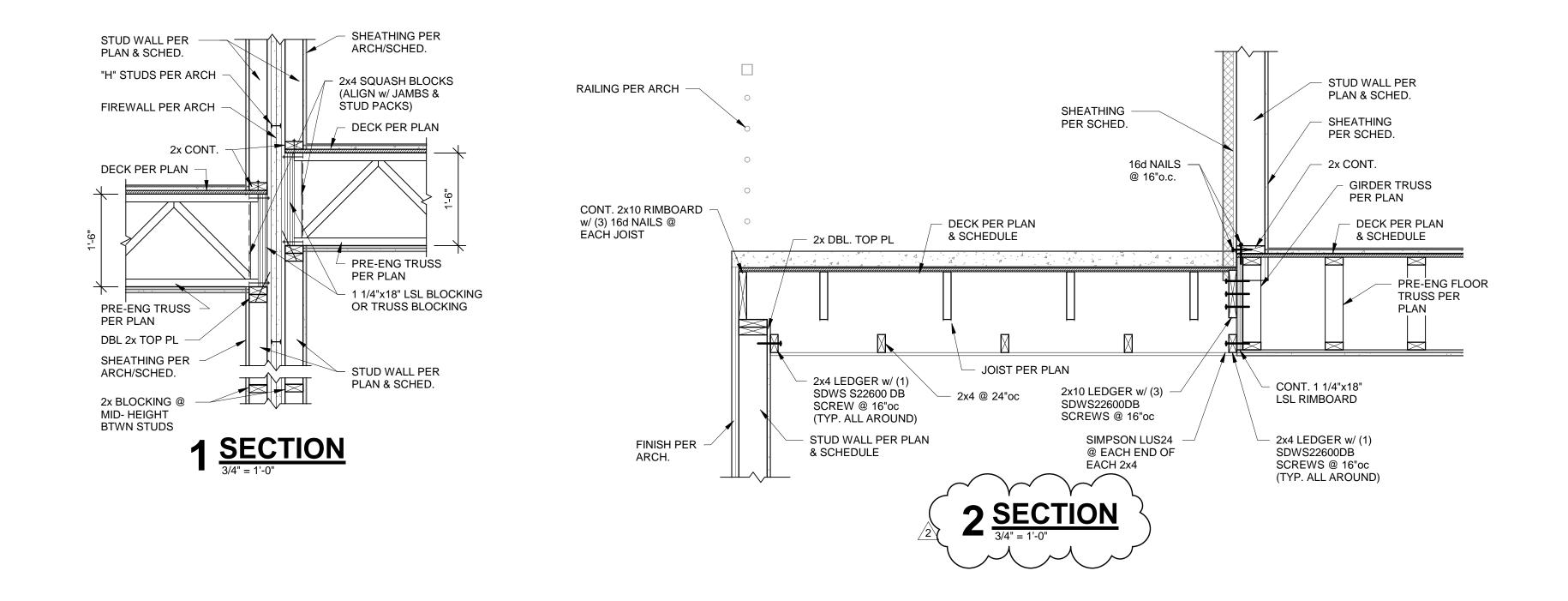
$15 \frac{\text{SECTION}}{3/4" = 1'-0"}$

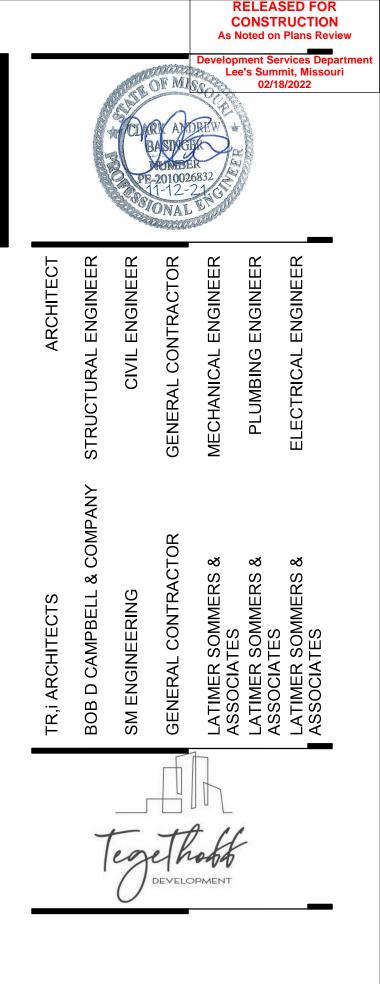
16 SECTION $\frac{3}{4}$ = 1'-0"

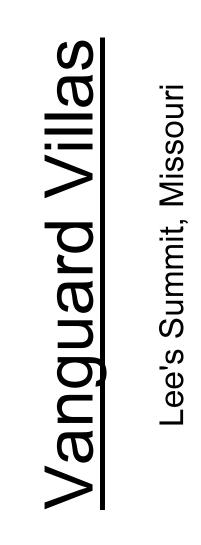


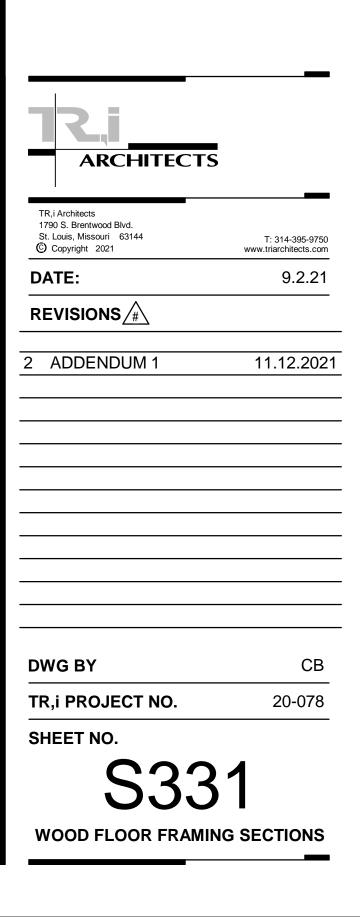


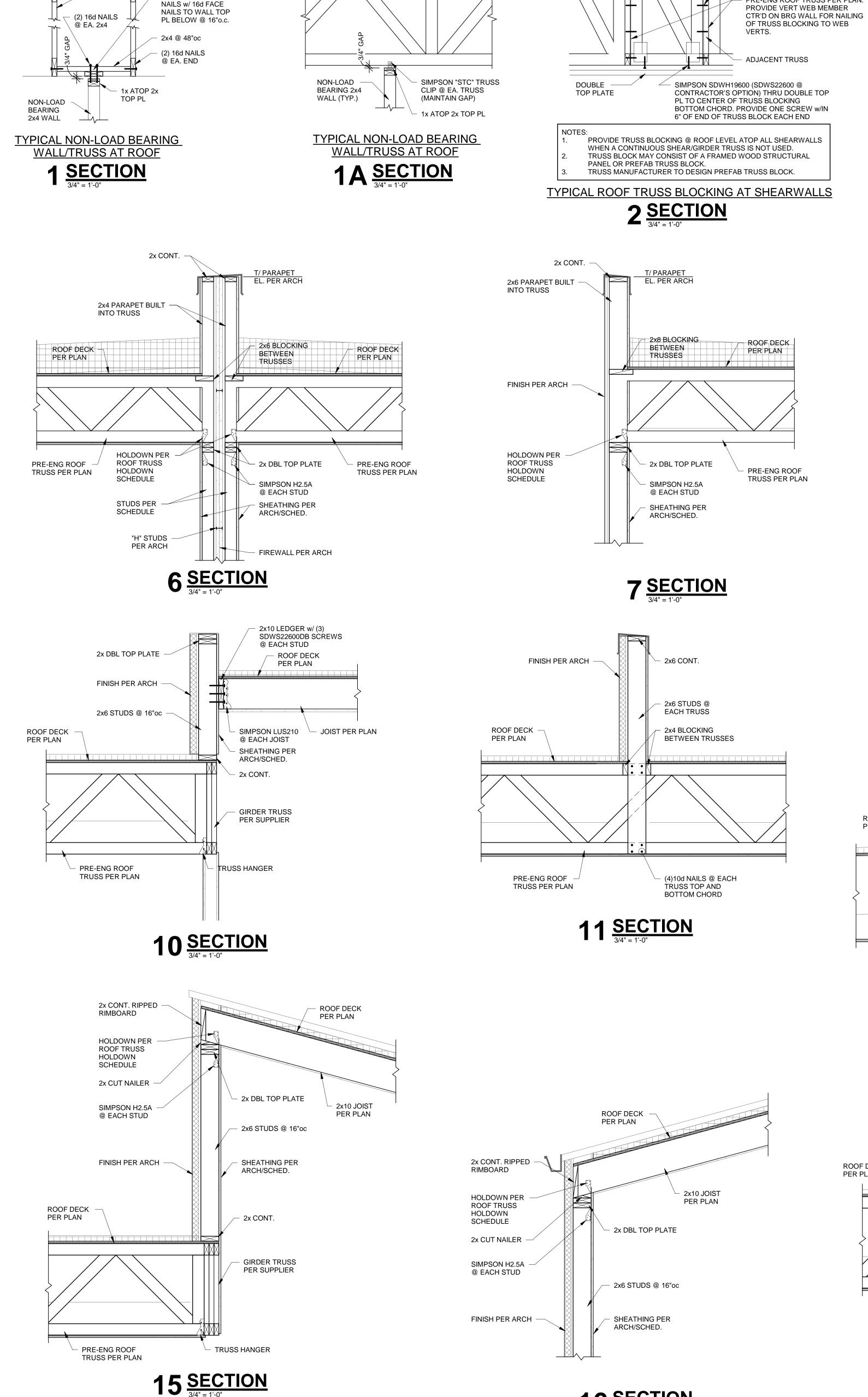












ROOF
 TRUSSES PER

PLAN

2'-0"

ROOF DECK

ROOF
 TRUSSES PER

CONT. 2x6 CEILING

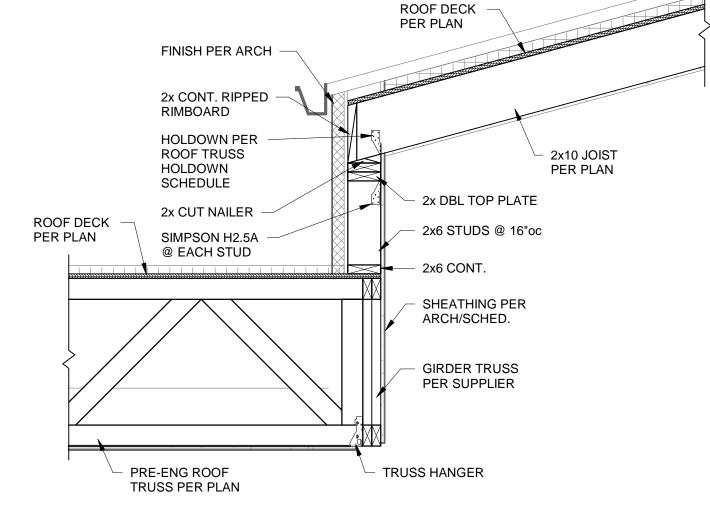
PLAN

EDGE NAILING TO

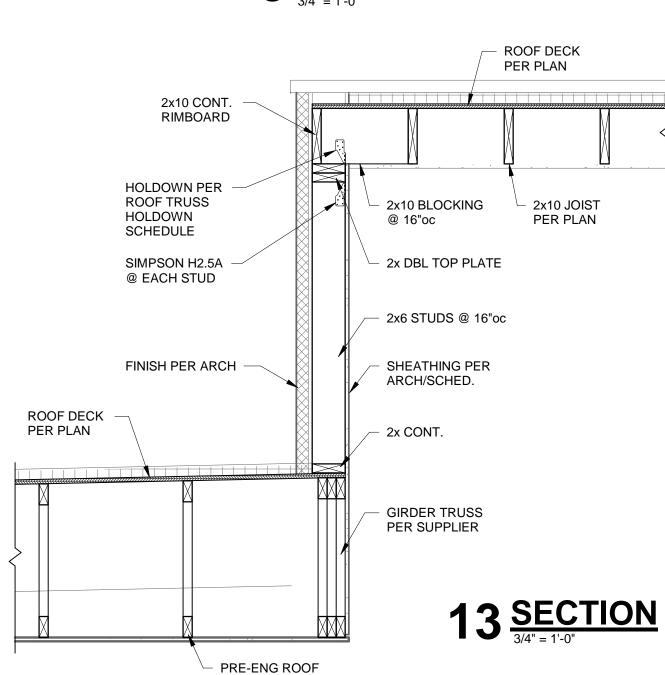
TRUSS BLOCKING

16 SECTION $\frac{3}{4''=1'-0''}$

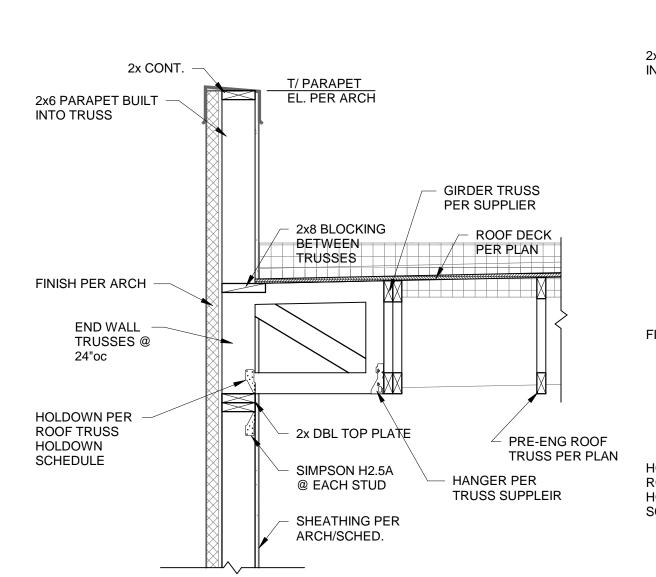




TRUSS PER PLAN



8 **SECTION** 3/4" = 1'-0"



CONTRACTOR'S OPTION) THRU DOUBLE TOP BOTTOM CHORD. PROVIDE ONE SCREW w/IN

TRUSS BLOCKING BTWN TRUSSES (DESIGN FOR 110plf LATERAL LOAD)

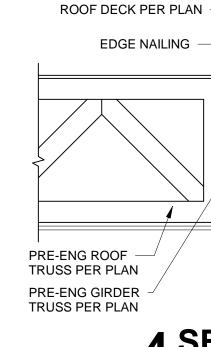
0.131"x3" FACE NAILS (OR

PANEL (TYPICAL)

TOE-NAILS) @ 8"oc THRU TRUSS VERT TO BLOCKING

PRE-ENG ROOF TRUSS PER PLAN.

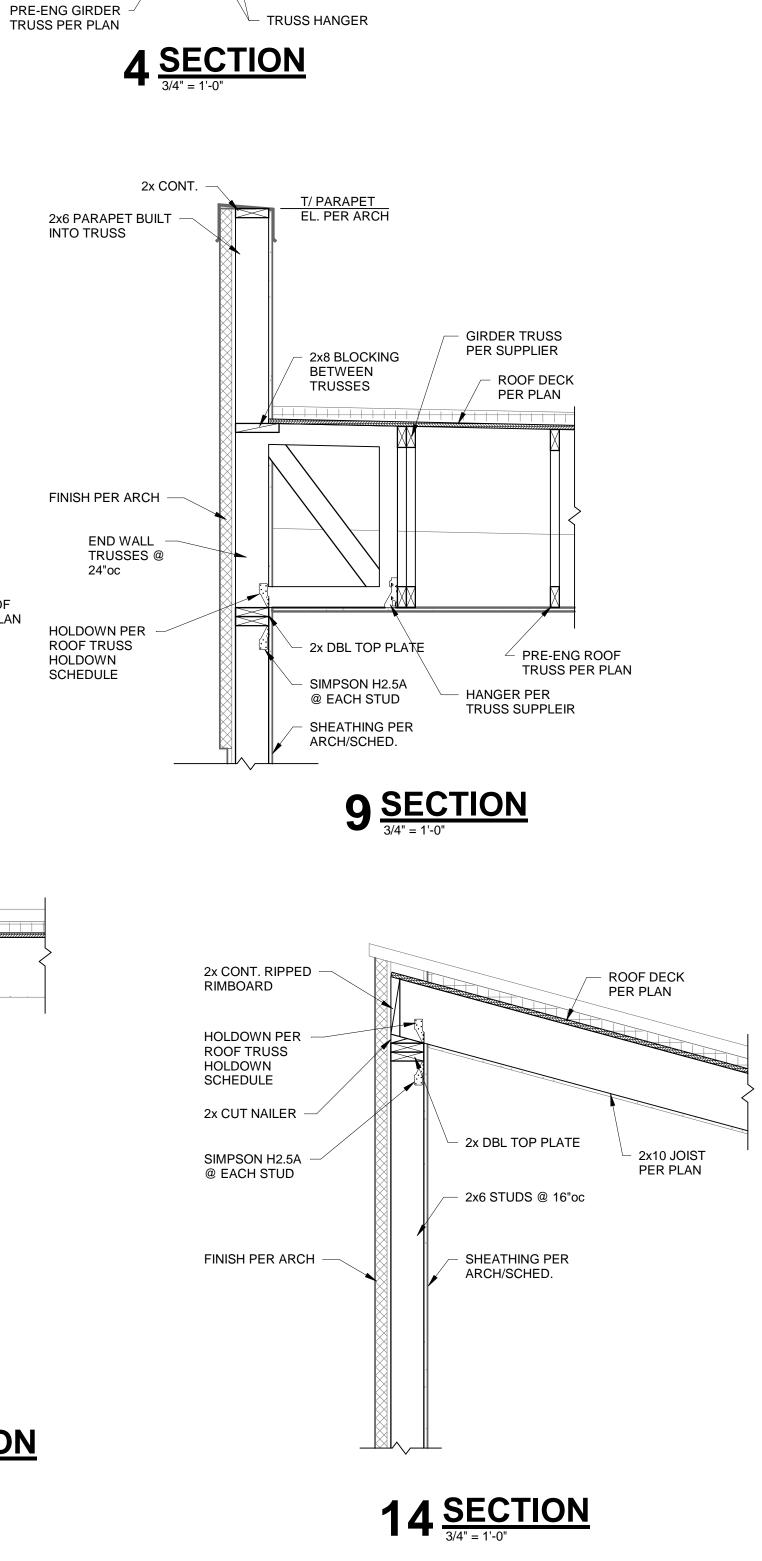
GIRDER TRUSS PER PLAN SIMPSON LGT TYPE HOLDOWN TO JAMB (RE: GENERAL NOTE 11G) (USE LSTA15 STRAP EACH SIDE @ GIRDER TRUSS PARALLEL TO BEARING WALLS) # OF STUDS TO MATCH # OF GIRDER TRUSS PLIES (3 STUDS MIN.) U.N.O. PROVIDE. SQUASH BLOCKS AND JAMBS @ FLOORS BELOW DOWN TO FOUNDATION TYPICAL DETAIL AT ROOF GIRDER TRUSS BEARING $3 \underline{\text{SECTION}}_{3/4"=1'-0"}$

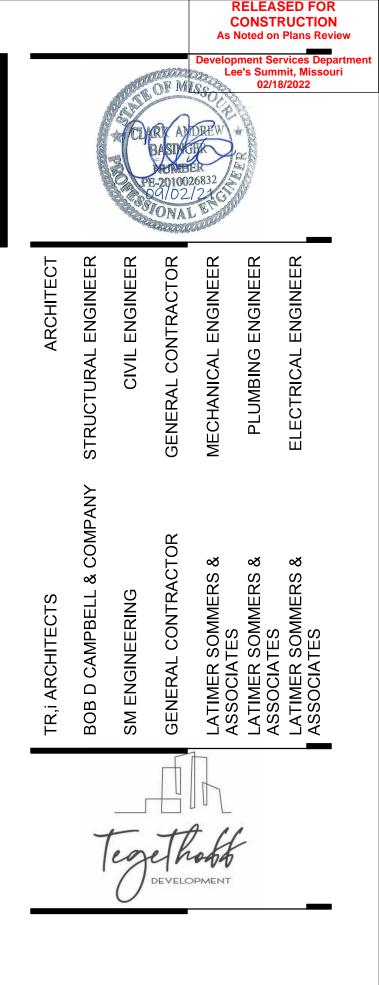


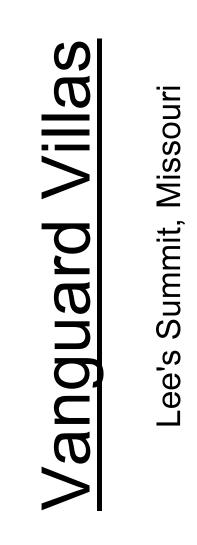
EDGE NAILING

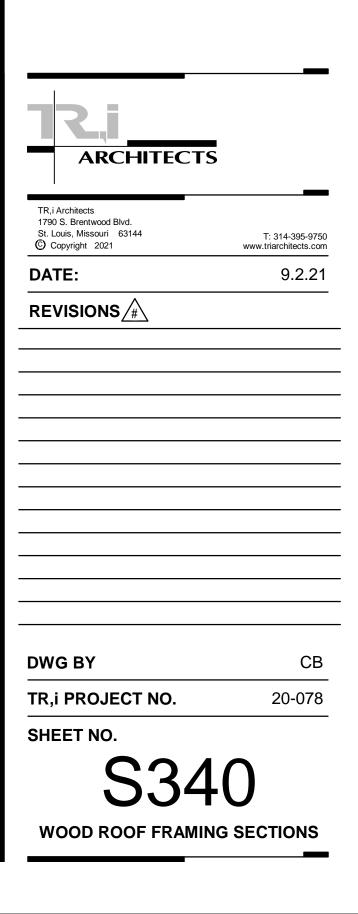
PRE-ENG ROOF

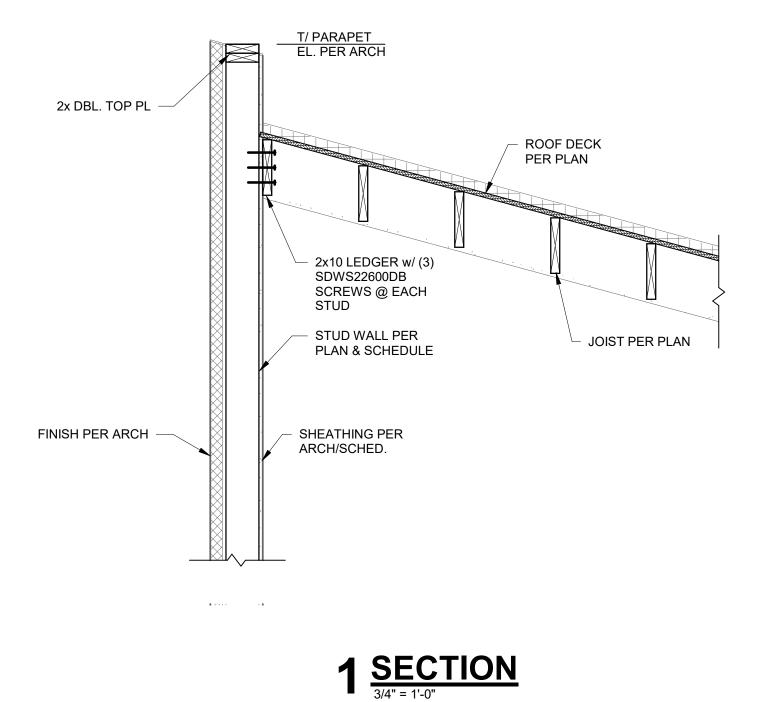
TRUSS PER PLAN

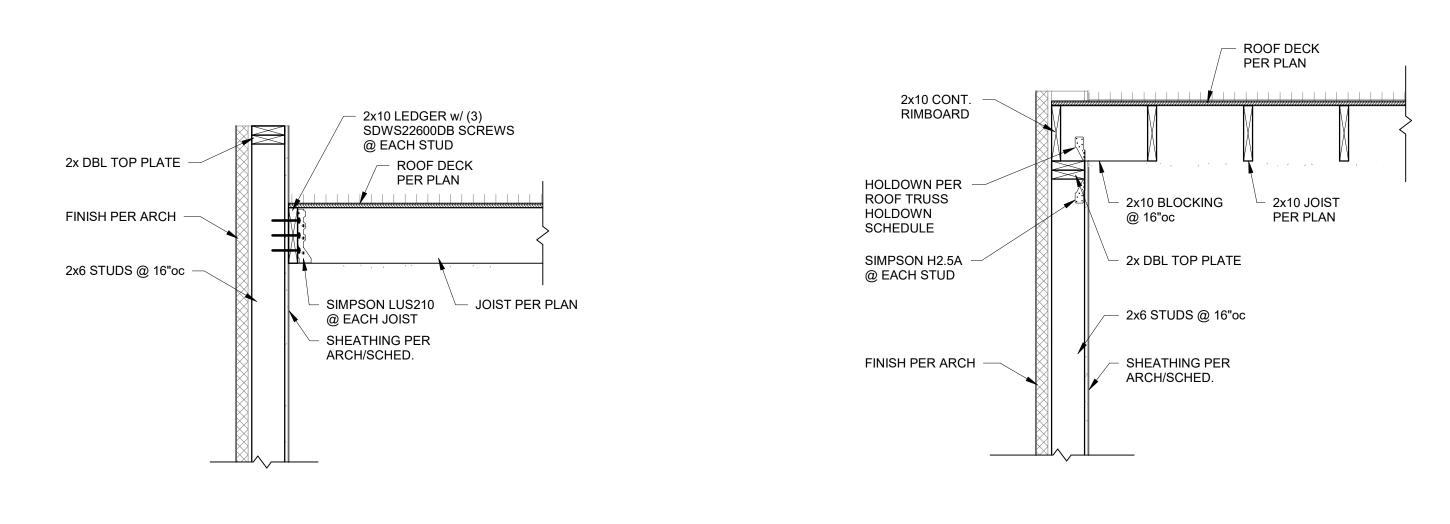




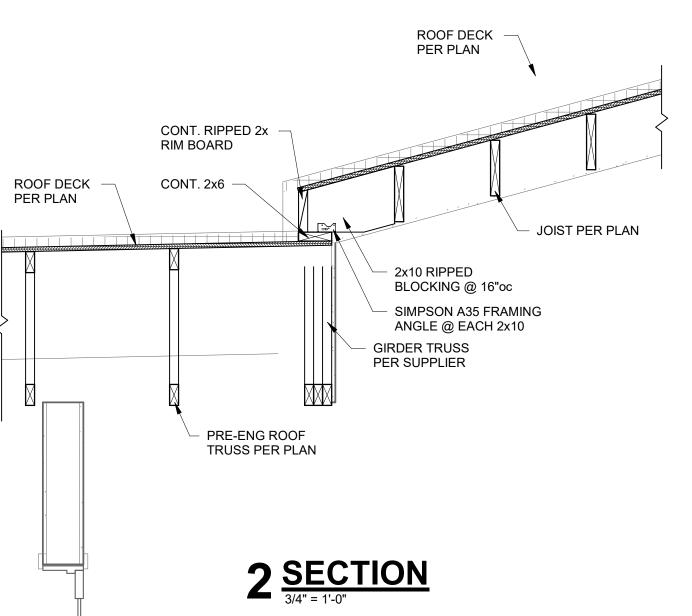


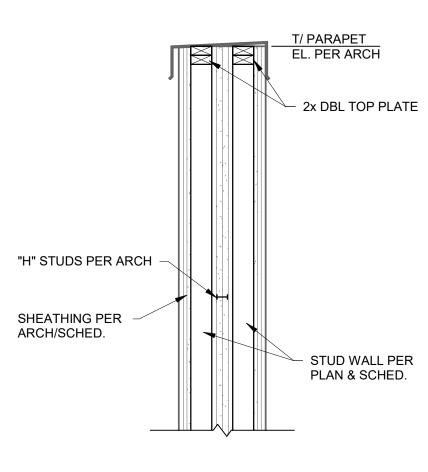






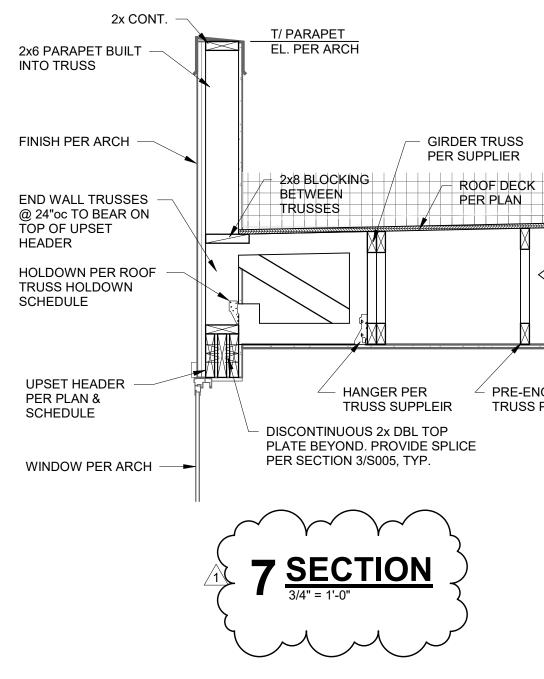
5 <u>SECTION</u> 3/4" = 1'-0"



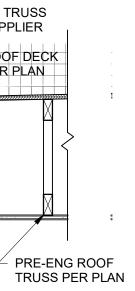


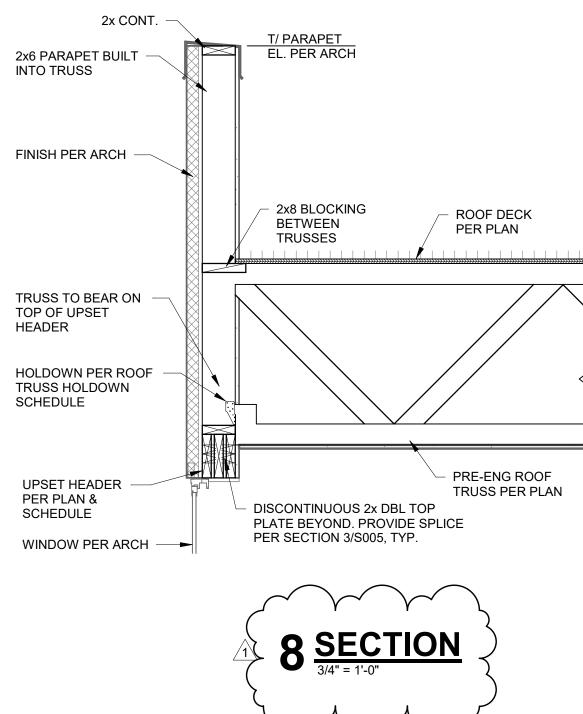
3 <u>SECTION</u> 3/4" = 1'-0"

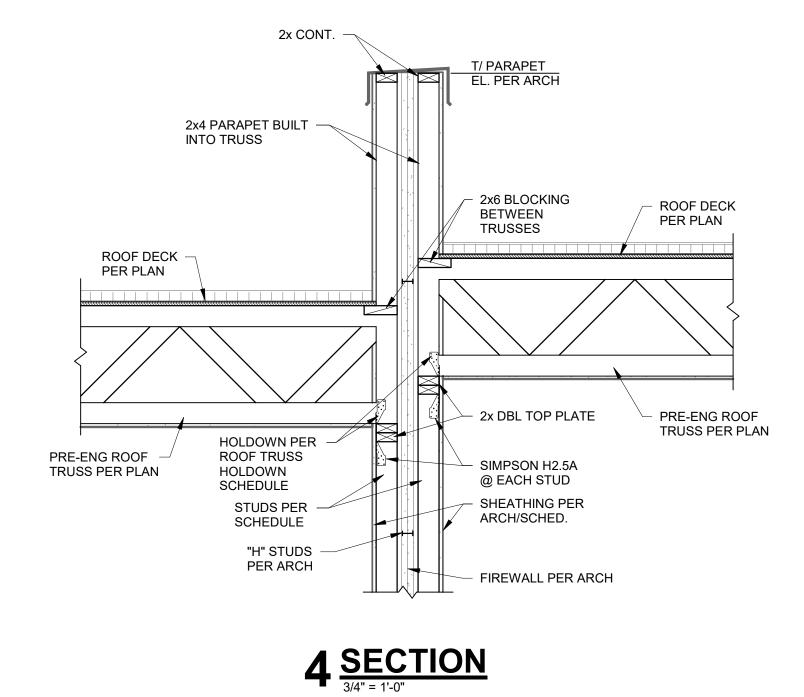


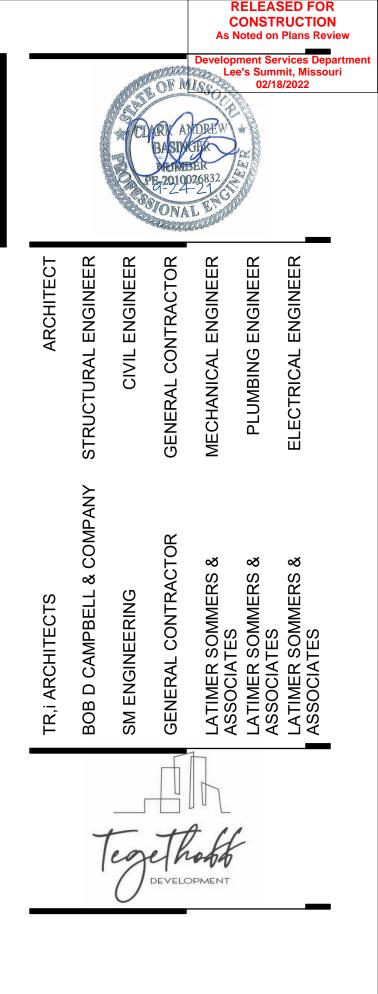


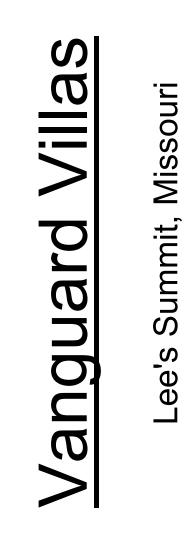


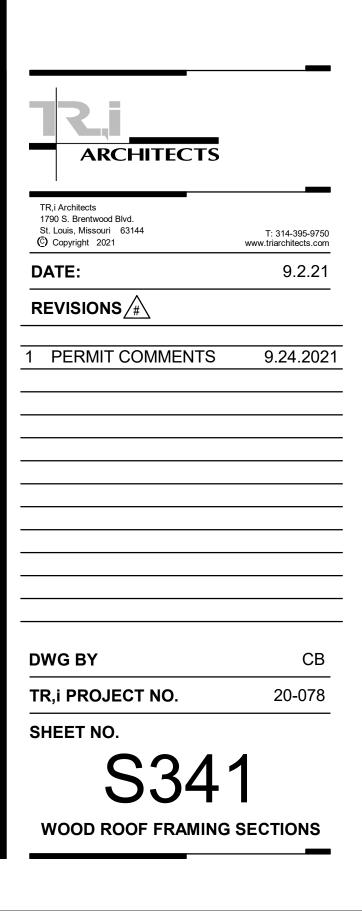














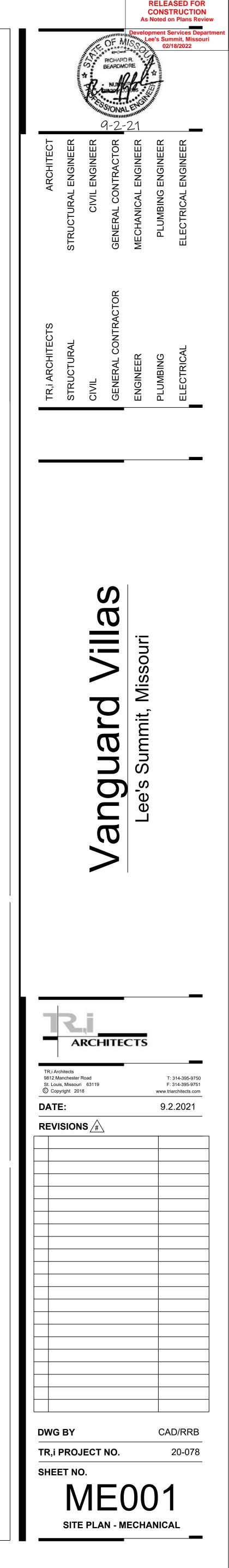
NOTES:

- VERIFY UTILITIES WITH CIVIL DRAWING AND PROVIDERS.
 SEE 1-ME1.02 FOR GARAGE DETAIL.
- 3. ELECTRICAL SERVICE PRIMARY AND TRANSFORMER LOCATIONS ARE PROPOSED. OBTAIN KCPL DESIGN PRIOR TO CONSTRUCTION OR ORDERING EQUIPMENT.
- FOR GAS SERVICES TO AMENITIES, PROVIDE STEEL RISER, SHUT-OFF AND KEY OPERATED VALVE. VERIFY WITH LANDSCAPE ARCHITECT.
- 5. CARPORTS ROUTE TO GARAGE PANELS.
- ALL SITE LIGHTING IS (3) #10 IN 3/4" PVC CONDUIT AND ROUTES THRU PHOTOCELL.
 - 7. \square = PROPOSED TRANSFORMER LOCATION.

LEGEND:

- (1) 1" CW SERVICE FROM 5/8" METER
- $\langle 2 \rangle$ 4" SANITARY EXIT.



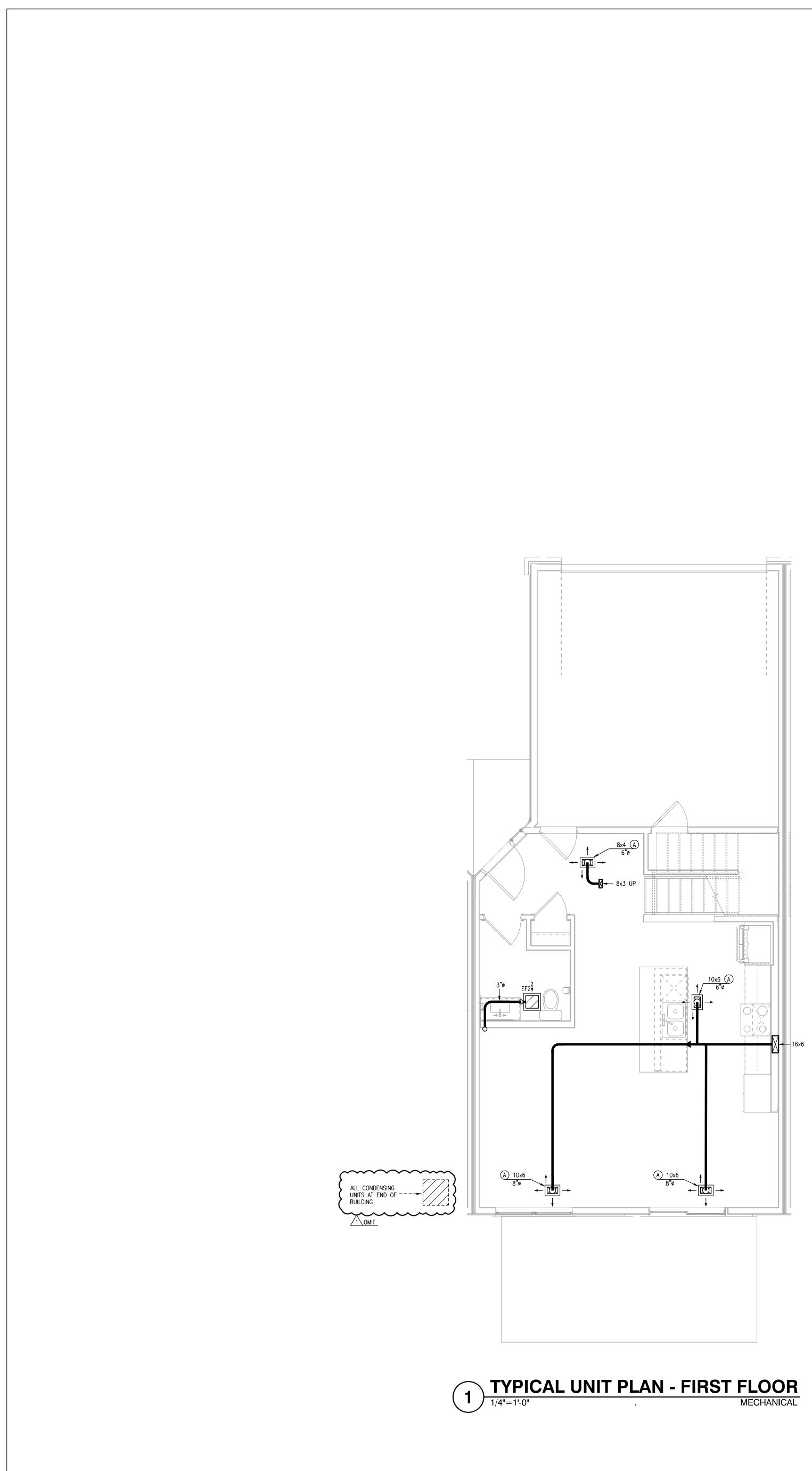




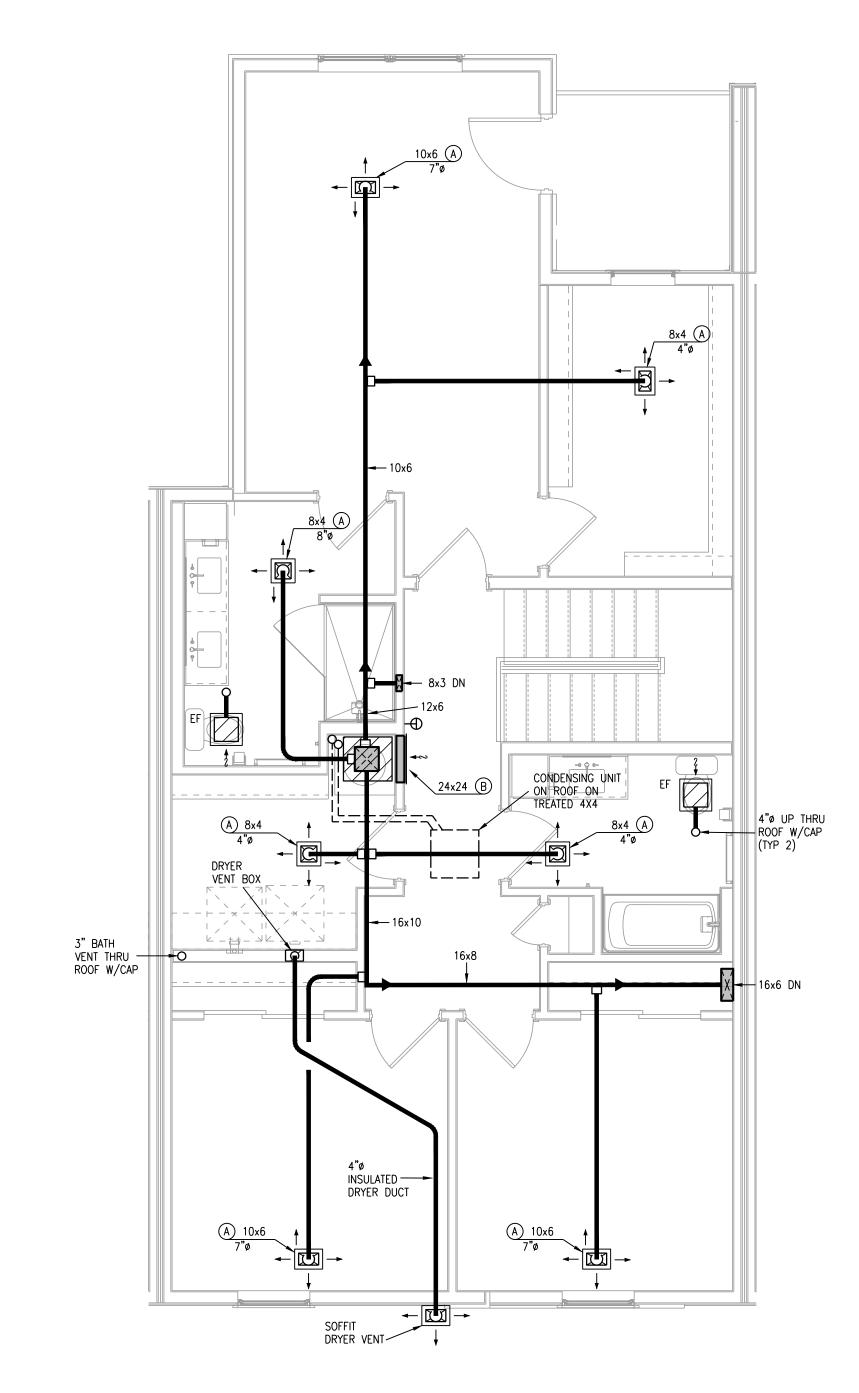


CONSTRUCTION As Noted on Plans Review ____ OF MIS _ee's Summit, Missouri 02/18/2022 RICHARD R BEARDMOR 11.12.2021 Ļ Ċ O C illas uri SO S Ĩ luard ummit, S ang Lee's >ARCHITECTS TR,i Architects T: 314-395-9750 9812 Manchester Road F: 314-395-9751 St. Louis, Missouri 63119 Copyright 2018 www.triarchitects.com DATE: 9.2.2021 REVISIONS **#** 11.12.2021 ADDENDUM 1 CAD/RRB DWG BY TR, i PROJECT NO. 20-078 SHEET NO. SITE PLAN - MECHANICAL

RELEASED FOR



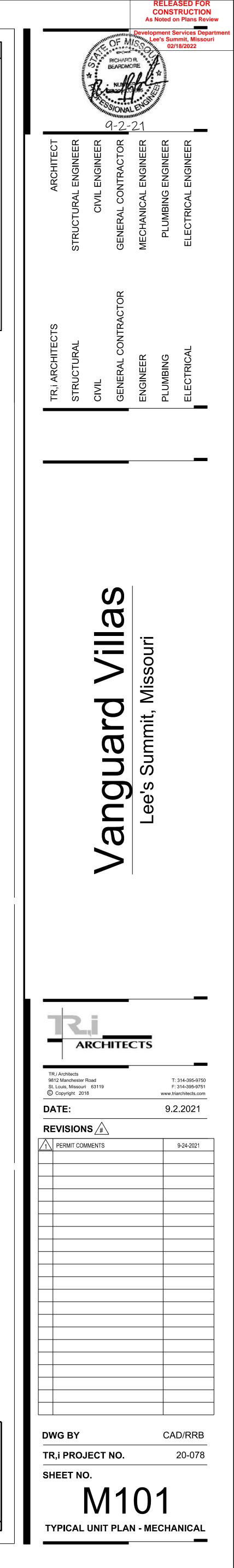


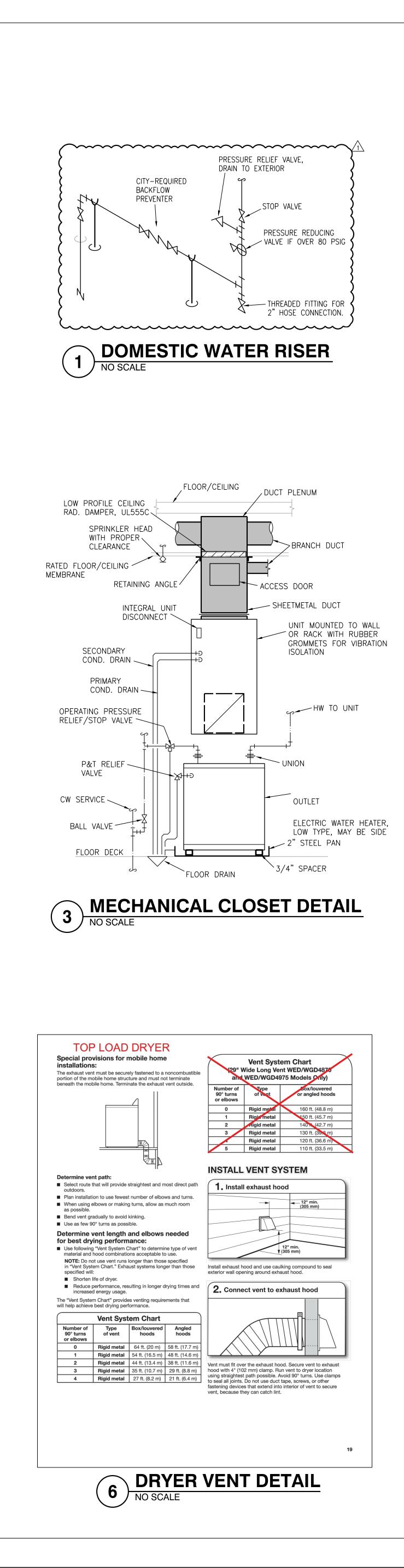


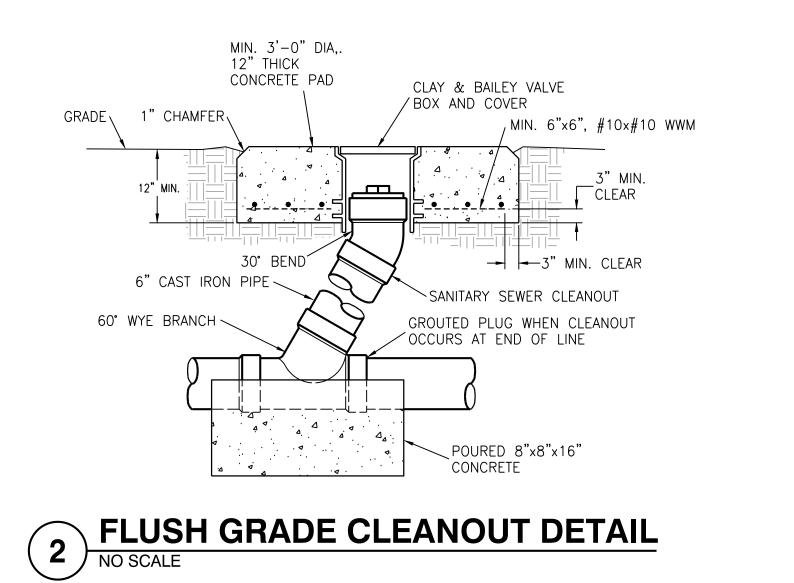
NO.	TES:
1.	PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHU'S AND WATER HEATERS.
2.	ALL CONDENSING UNITS ARE GROUND MOUNTED. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SETS.
3.	PROVIDE GUY GRAY MODEL DB350/DB3D DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW TO EXTERIOR WALL
4.	GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
5.	MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS. DRYER VENT CAPS SHALL HAVE 4" DEEP BY 4" WIDE OPENING FOR AIR FLOW.
6.	ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
7.	EXHAUST FANS AT TOP FLOOR VENT TO ROOF.
8.	EXHAUST FANS TO BE HUMIDITY-SENSING TYPE.
9.	TOP FLOOR DUCTS SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.

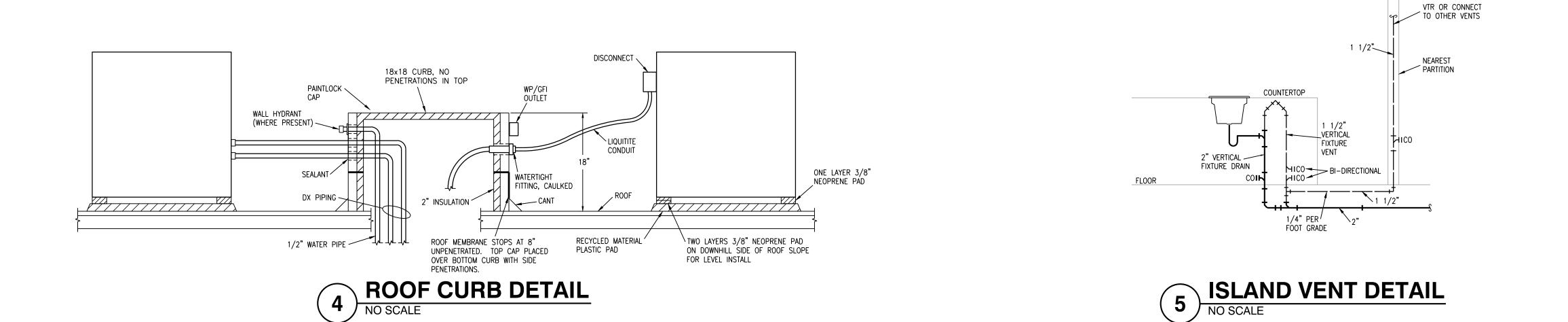






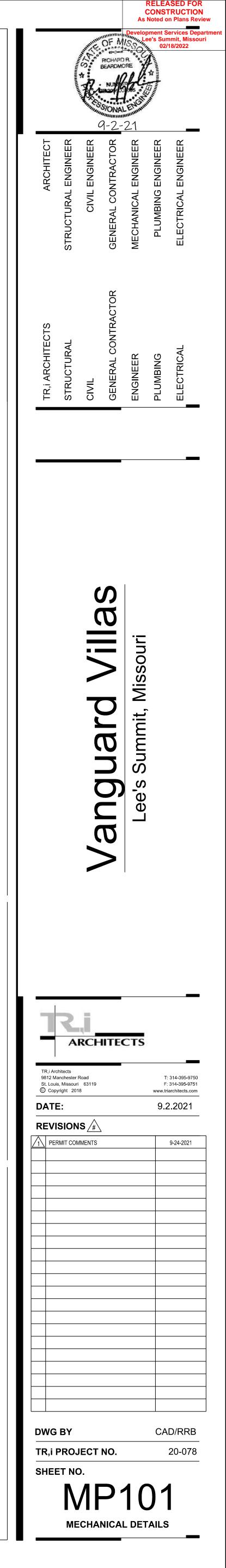






	MECHANICAL S	YMBC	LS LEGEND
	WATER CLOSET & TYPE (TYP. FOR ALL PLUMBING FIXTURES)		MANUAL DAMPER
	WASTE LINE ABOVE EARTH (W.)	₹ <u></u> <u></u> <u></u> BD	BACKDRAFT DAMPER
+-	WASTE LINE IN EARTH (W.)		AUTOMATIC DAMPER
— Со	CLEAN OUT	₹ Ţ Ţ	FIRE DAMPER
FCO O	FLUSH FLOOR CLEAN OUT	₹	FIRE/SMOKE DAMPER
GCO O	FLUSH GRADE CLEAN OUT	5 # 3 SD	SMOKE DAMPER
<u>1) fd</u>	FLOOR DRAIN AND TYPE	<u>6x6(A)80</u> ⊡	GRILLE, REGISTER OR DIFFUSER, SIZE, TYPE & CFM
-RD —	ROOF DRAIN		VOLUME EXTRACTOR AND TURNING VANES
<u>1 rd</u>	ROOF DRAIN AND TYPE		RETURN, EXHAUST OR FRESH AIR DUCT SECTION UP & DOWN
	VENT LINE (V.)	\boxtimes	SUPPLY AIR DUCT SECTION UP AND DOWN
	DOMESTIC COLD WATER SUPPLY (DCW)		FLEXIBLE DUCT CONNECTION
	DOMESTIC HOT WATER SUPPLY (DHW)		ROUND OR RECTANGULAR DUCT
	DOMESTIC HOT WATER RETURN (DHWR)		FLEXIBLE DUCT
+ HB/36"	HOSE BIBB AND MOUNTING HEIGHT	φ	THERMOSTAT
EI WH	WALL HYDRANT	— L —	REFRIGERANT LIQUID
– F ——	FIRE LINE/STANDPIPE	— s —	REFRIGERANT SUCTION
- D —	DRAIN LINE	AD	ACCESS DOOR
- G —	NATURAL GAS LINE	AFF	ABOVE FINISHED FLOOR
ŀ <u>Q</u> ++ <u>2</u>	RISE & DROP IN PIPE WITH CUT-OFF VALVE	EA	EXHAUST AIR
→	REDUCER	OA	OUTSIDE AIR
	CHECK VALVE	RA	RETURN AIR
\bowtie	STOP VALVE	SA	SUPPLY AIR
-74-	BALANCING VALVE	VBS	VENT BELOW SLAB
永 —	PLUG VALVE	VTR	VENT THRU ROOF
&—	2-WAY CONTROL VALVE OR SOLENOID VALVE	•	CONNECT NEW TO EXISTING
密 —	3-WAY CONTROL VALVE OR SOLENOID VALVE		LOCKABLE GUARD
₫	PRESSURE REDUCING VALVE		
	STRAINER		
#	UNION		
+~+	FLEXIBLE PIPE CONNECTION		





	T		PLUMBING FIX	URE S	SCHED	ULE							
Mark	ltem	Model	Description		Individual Co	onnections				Acc	essories		
				W	V	CW	HW	Supplies	Stops	Carrier	P-Trap	Drain	Other
			Floor-mounted standard height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide molded wood closed front elongated white seat with integral bumpers, external check										
P-1	Water Closet, Tank Type	ProFlo #PF1401T ProFlo #PF20174 with Peerless	hinges with stainle 20" x 17" oval vitreous china countertop lavatory with overflow. Faucet is 4" o.c. single lever ADA handle, copper waterways, chrome finish, 1.5 GPM, metal	3" or 4"	2" 1 1/2" or	1"		2					
P-2	Lavatory, Countertop	#P136PF-M	pop-up.	2"	2"	1/2"	1/2"	2	1		1	1	
D-3	Bathtub	Kohler #K-715/6 with Delta #R- 10000-UN/T13420	60" x 30" x 20" tall non-slip basin and tub overflow and turn and lift stop with finish to match faucet. Pressure-balanced single handle chrome valve, 1.5 gpm showerhead, tub spout with pull-up diverter. Provide future grab bar blocking. Water Sense la	2"	2"	1/2"	1/2"				2		
P-3S	Shower	Aquarius G6036 with Peerless #PTT188780	60" x 36" white fiberglass reinforced plastic/acrylic non-slip basin with surround, soap dishes. Pressure-balanced single handle valve, 2.0 gpm chrome showerhead, drain to match.	2"	2"	1/2"	1/2"				2		
P-4	Kitchen Sink	ProFlo #PFUE206 with Peerless #P188103LF	Stainless steel under-mount 20 ga.dual bowl 33" x 22" x 8" deep. Single handle faucet with pull-out sprayer. Evergrind Model E101 disposer with cord/plug.	2"	2"	1/2"	1/2"	1	1		2	2	
⁵	Washer Box	Guy Gray #WB200HATM	Recessed non-metallic with dual PVC/ABS 2" outlets, two angle quarter turn stops with built-in shock absorbers.	2"	2"	1/2"	1/2"	1			3		
D-6	Water Outlet Box	Guy Gray #BIM877QTS	Recessed non-metallic with two angle quarter turn stops.			1/2"		1					
Supplies	2 - Flexible braided compress	ion hose.											
Stops Carrier	 Angle handle compression Steel tube floor-mounted in 												

P-Trap 1 - PVC with deep escutcheon

2 - PVC 3 - deep seal PVC trap and 30" standpipe.

Drain 1 - Metal pop-up with tailpiece 2 - Basket strainers in finish to match faucet, tailpiece.

Other 1 - Provide trap and supply guard if exposed. 2 - Provide mop bracket, hose bracket, SS wall guards

		_		N	ATER H	EATER S	CHEDUL	.E				
MARK	MFGR	MODEL	FUEL	VOLTAGE/PH/ AMPS	INPUT	EFFICIENCY/ PF	GALLONS STORAGE		FLUE TYPE	EXPANSION	CIRCULATOR GPM/HD	NOTES
TYP APT	A.O. SMITH	ENJB-40	ELEC	240/1/19	4.5 KW	0.95	38	23	N/A			1, 2, 3
NOTES												

1- PROVIDE ASME P&T VALVE, DRAIN VALVE

2- PROVIDE COMBINATION STOP AND OPERATING PRESSURE RELIEF VALVE 3- LOW TYPE, SIDE CONNECT

				DRAIN SCHED	OULE		
MARK	APPLICATION	MFGR	MODEL	BODY MAT'L	DEPTH	GRATE MAT'L	GRATE SH
APT FD	FLOOR	SIOUXCHIEF	842	ABS/PVC	3"	NICKEL BRONZE	6" ROUI

ACCESSORIES: 1 - USE WIDE FLANGE MODEL WHERE IN WOOD CONSTRUCTION

						HVAC	SYS	TEN	I SCHE	DUL	Ξ								
						AHU/R	TU							0	UTDOOR U	INIT			
MARK	MFGR	NOM TON	MODEL	CFM	OA CFM	E.S.P. HP	SMBH	TMBH	HEAT CAP	ELEC	FLA	OCP	MFGR	MODEL	ELEC	FLA	OCP	SEER	NOTES
OWNHOME	GOODMAN	3	ARUF3710C14	1100		0.5 0.5	24	34	10 KW	240/1	45	60	GOODMAN	GSX14036	208/1	15	30	14.0	

		AIR TERMINAL	DEVICE S	CHEDU	JLΕ	
MARK	MANUFACTURER	MODEL	FINISH	DAMPER	FRAME TYPE	NOTES
A	AIR MATE	A190	WHITE	YES	GYP BD	W/CRE
В	AIR MATE	170	WHITE	NO	GYP BD	

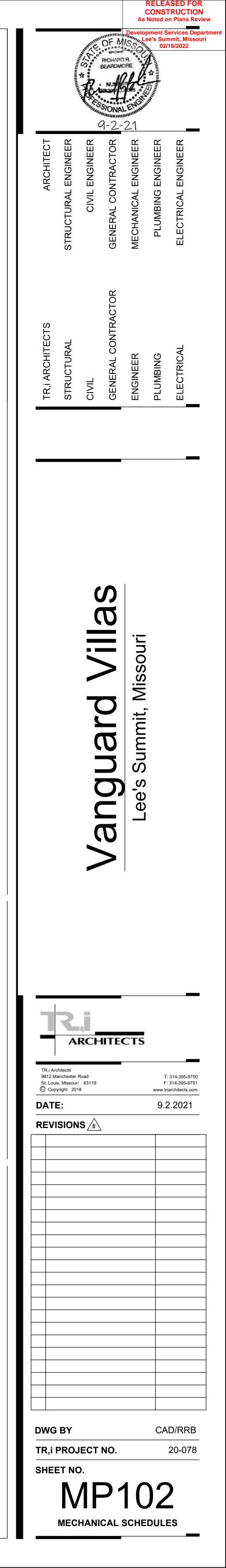
		FA	N SC	HEC	UL	E				
							ELE	CTRIC	AL	
MADIC	MEOD	MODE	OF M	FOD		VOLTS		000	MIDING	
MARK	MFGR	MODEL	CFM	ESP	HP	/ PH	FLA	OCP	WIRING	CONFIGURATION - NOTE
APT EF	BROAN	AE80	80	0.1	Fr.	120/1	1	15	(3) #12	ceiling, 1
APT EF2	BROAN	AE50	50	0.1	Fr.	120/1	1	15	(3) #12	ceiling, 2
NOTES:	1-CEILING GRILLE,	DS, WALL/ROO	F CAP, H	UMIDIT	Y-SEN	SINGW	ALL	CONT	ROL	
	2-CEILING GRILLE, I	DS, WALL/ROO	FCAP							

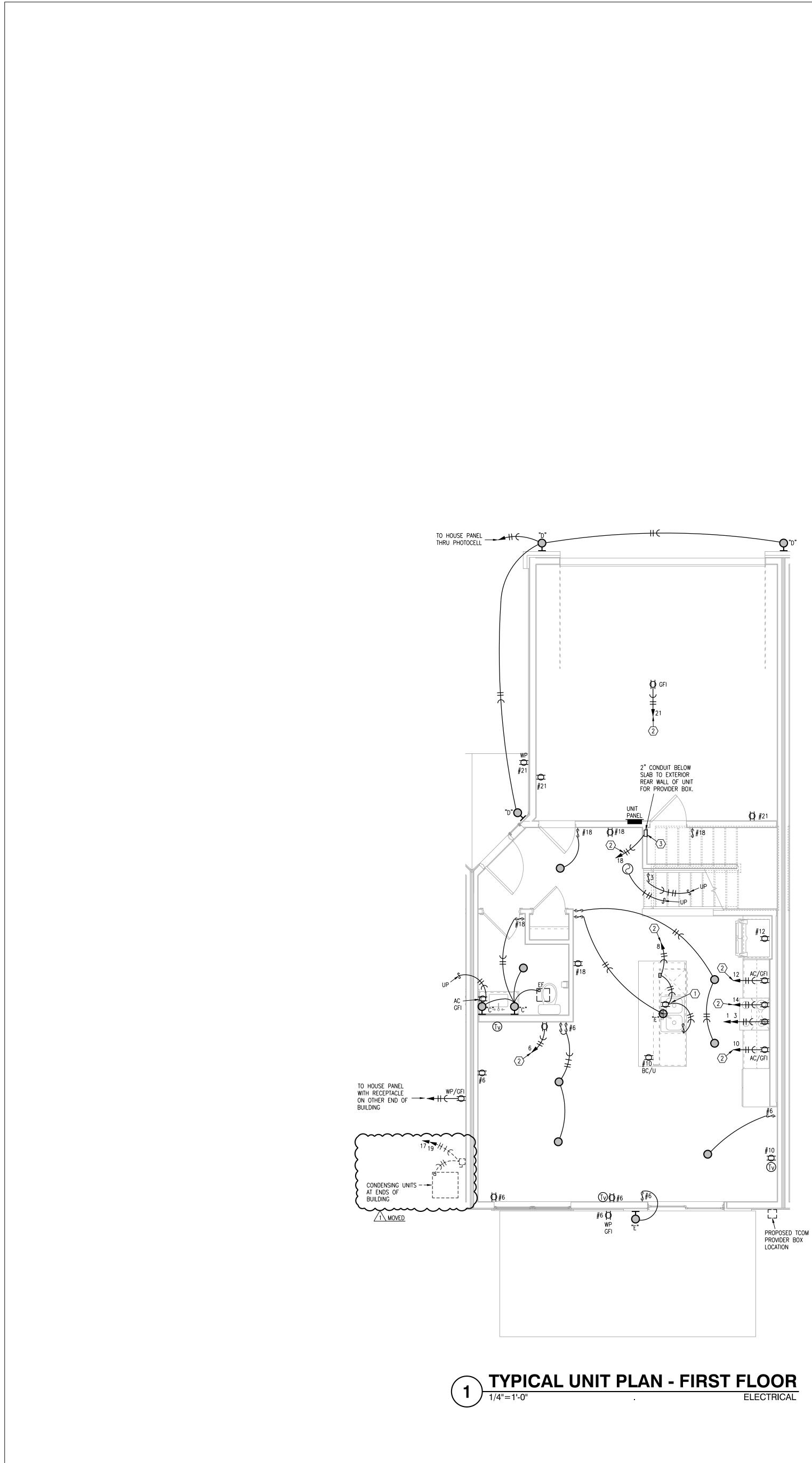
SHAPE ACCESSORIES

ES RD

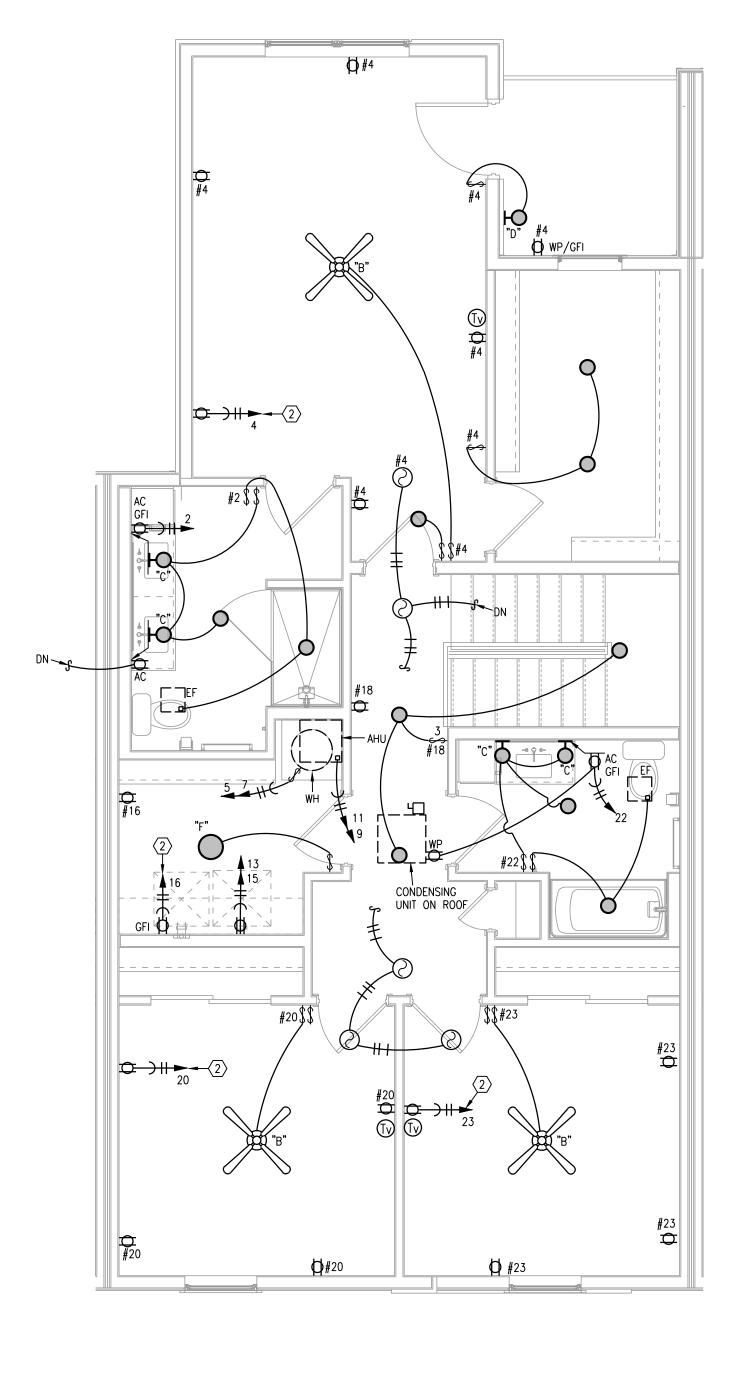
NFIGURATION - NOTES











	2.0		
LABEL	MANUFACTURER	DESCRIPTION/MODEL	FINISH
А	NORA LIGHTING	NELOCAC-8R30W ELO SURFACE MOUNT	WHITE TRIM
В	FANIMATION	FPD8534BL KUTE 52" LK8534 KUTE LIGHT KIT	BLACK
С	MATTEO	S03910MB	MATTE BLACK
D	ACCESS	20399LEDMG-BL	TEXTURED BLACK
E	ET-2	E20366-92BK HALF MOON	BLACK
F	NORA LIGHTING	NELOCAC-11R30W ELO SURFACE MOUNT	WHITE TRIM

LIGHTING FIXTURE SCHEDULE

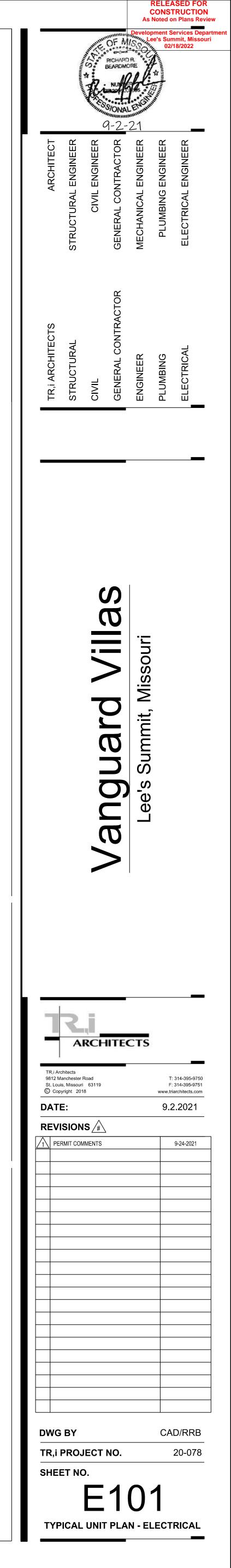
NOTES:

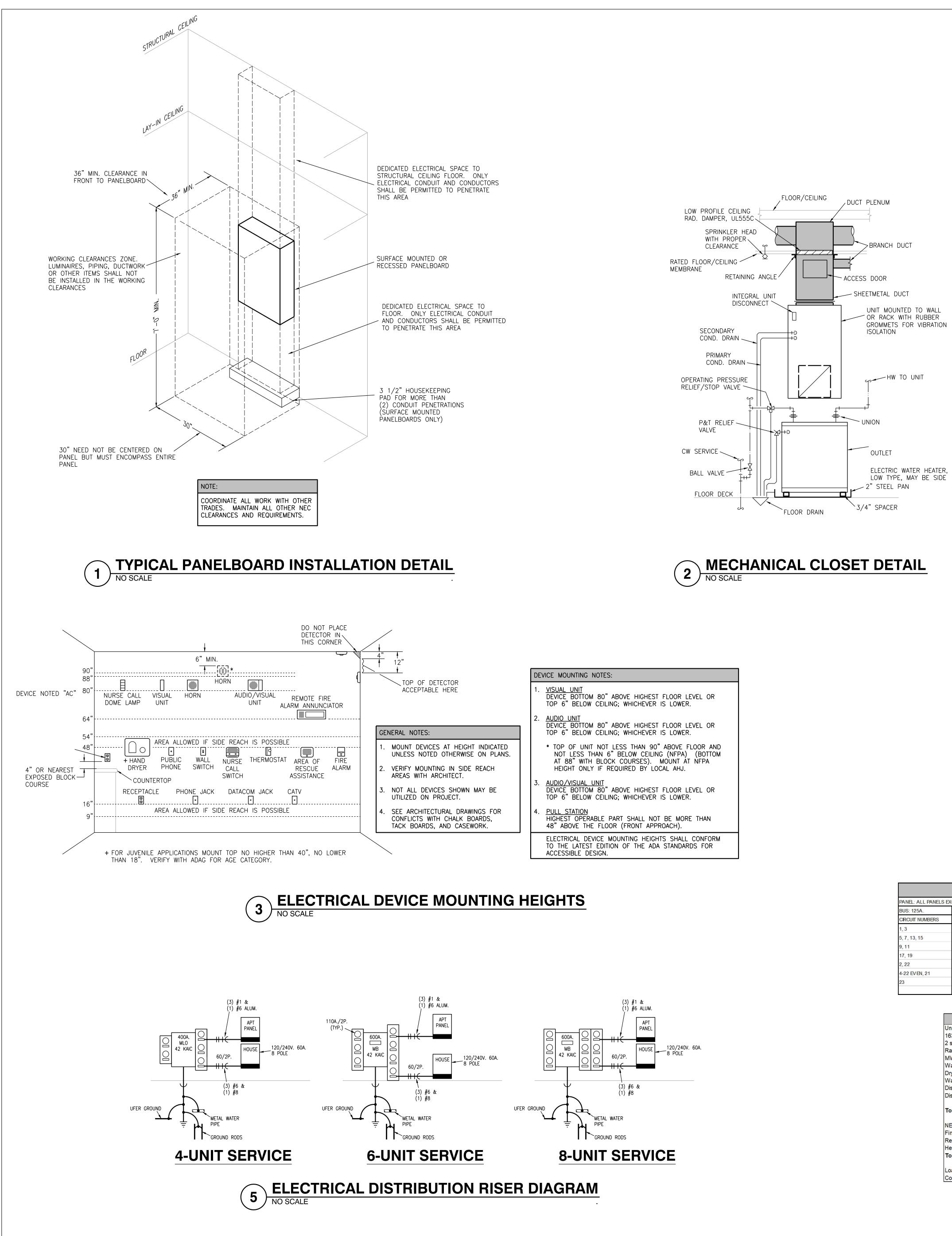
- CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.
- 2. CENTER ISLAND PENDANT LIGHTS OVER BASE BACK WALL AND CENTERED EQUALLY LEFT TO RIGHT OVER SINK. THESE ARE SEPARATELY SWITCHED.
- 5. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.
- THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU
- \bigcirc = 120V. SMOKE/CO ALARM WITH BATTERY BACK-UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.
- ALL ARC–FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, LED FIXTURES AND OTHER ELECTRONIC DEVICES.
- 3. FIXTURES ARE TYPE "A" UNLESS NOTED OTHERWISE.
- FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANÉL CAPACITY.
- 10. ALL RANGES SERVED BY (3) #8 AND (1) # 10 AND 50A. RECEPTACLE.
- 11. ALL WATER HEATERS SERVED BY (3) #10.
- 12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48". MW RECEPTACLES AT 66" (VERIFY).
- 13. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND OUTDOOR UNIT CIRCUITS.
- 14. ALL DRYERS SERVED BY (4) #10 AND 30A. RECEPTACLE.
- 15. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.

LEGEND:

- SWITCHED GFI RECEPTACLE FOR GARBAGE DISPOSER CONTINUE CIRCUIT TO DISHWASHER. 2 PROVIDE ARC-FAULT CIRCUIT BREAKER IN PANEL.
- 3 TELE/TV DEMARK FLUSH BOX. PROVIDE WITH DUPLEX OUTLET. PROVIDE 1" CONDUIT FROM BOX TO ABOVE CEILING AND OUT TO CEILING IN THE HALLWAY. SEE DETAILS.







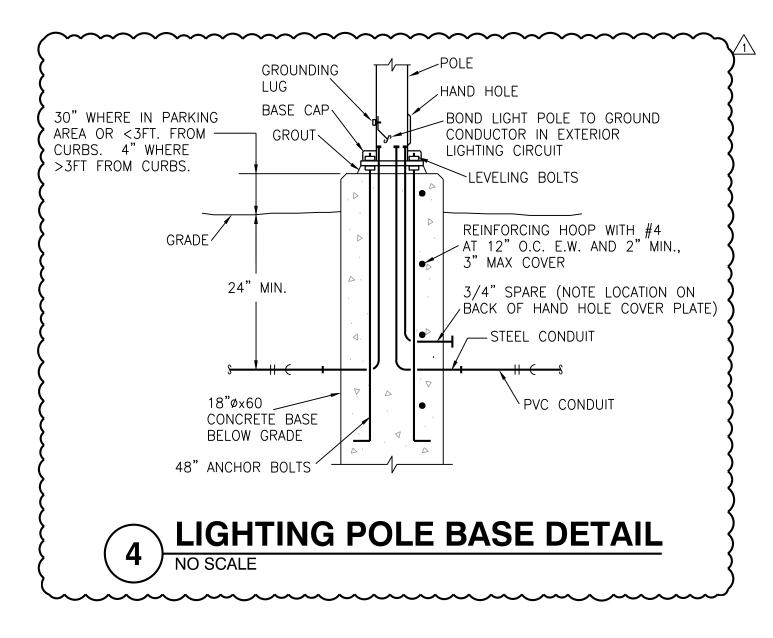
	1.	<u>VISUAL UNIT</u> DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.
	2.	AUDIO_UNIT DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.
) S.		* TOP OF UNIT NOT LESS THAN 90" ABOVE FLOOR AND NOT LESS THAN 6" BELOW CEILING (NFPA) (BOTTOM AT 88" WITH BLOCK COURSES). MOUNT AT NFPA HEIGHT ONLY IF REQUIRED BY LOCAL AHJ.
	3.	AUDIO/VISUAL_UNIT DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.
	4.	<u>PULL_STATION</u> HIGHEST_OPERABLE_PART_SHALL_NOT_BE_MORE_THAN 48" ABOVE_THE_FLOOR (FRONT_APPROACH).
		ELECTRICAL DEVICE MOUNTING HEIGHTS SHALL CONFORM TO THE LATEST EDITION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN.

	EL	ECTRICA	AL PAN	IEL S	SCHE	DULE		
PANEL: ALL PANELS	EXCEPTLISTED OT	HERWISE	POLES:	24			MOUNTING:	FLUSH
BUS: 125A.	MAINS:	MLO	VOLTAG	E:	120/240	PHASE/WIRE:	1 Ph 3 Wire	KAIC:10
CIRCUIT NUMBERS	DESCRIPTION					AMPS	POLES	QUANTI
1, 3	RANGE					40	2	2
5, 7, 13, 15	WATER HEATE	R, DRY ER				30	2	2
9, 11	AHU					60	2	2
17, 19	CONDENSING	JNIT				30	2	2
2, 22	LIGHTS AND R	ECEPTACLES				20	1	(
4-22 EV EN, 21	ARC-FAULT LI	GHTS AND RECE	PTACLES			20	1	1
23	SPARE					20	1	1
:	2 small appliand	re feet at 3 V/ ce circuits	A per sq.	ft.			4905 3000 8000	
:			Apersq.	ft.				
	2 small appliand Range MW		A per sq.	ft.			3000 8000 1000 1500 5000	
	2 small appliand Range MW Washer Dryer Water Heater		A per sq.	ft.			3000 8000 1000 1500 5000 4500	
	2 small appliand Range MW Washer Dryer Water Heater Dishwasher		A per sq.	ft.			3000 8000 1000 1500 5000 4500 800	
	2 small appliand Range MW Washer Dryer Water Heater		A per sq.	ft.			3000 8000 1000 1500 5000 4500	
	2 small appliand Range MW Washer Dryer Water Heater Dishwasher	e circuits	A per sq.	ft.			3000 8000 1000 1500 5000 4500 800	
	2 small appliand Range MW Washer Dryer Water Heater Dishwasher Disposer Total general NEC 220-84 Ca	ce circuits Ioad Iculation	A per sq.	ft.			3000 8000 1000 5500 4500 800 850 29555	
	2 small appliand Range MW Washer Dryer Water Heater Dishwasher Dishwasher Disposer Total general NEC 220-84 Ca First 10 KVA at	ce circuits load lculation 100%	A per sq.	ft.			3000 8000 1000 55000 4500 850 29555	
	2 small appliand Range MW Washer Dryer Water Heater Dishwasher Disposer Total general NEC 220-84 Ca First 10 KVA at Remainder at 40	ce circuits load lculation 100% D%					3000 8000 1000 1500 4500 800 850 29555 10000 7822	
	2 small appliand Range MW Washer Dryer Dishwasher Disposer Total general NEC 220-84 Ca First 10 KVA at Remainder at 40 Heating Load	ce circuits load lculation 100% D%		ft. 65%			3000 8000 1000 5000 4500 800 850 29555 10000 7822 6500	
	2 small appliand Range MW Washer Dryer Water Heater Dishwasher Disposer Total general NEC 220-84 Ca First 10 KVA at Remainder at 40	ce circuits load lculation 100% D%					3000 8000 1000 1500 4500 800 850 29555 10000 7822	
	2 small appliand Range MW Washer Dryer Dishwasher Disposer Total general NEC 220-84 Ca First 10 KVA at Remainder at 40 Heating Load	ce circuits load lculation 100% 0% 100	000	65%			3000 8000 1000 5000 4500 800 850 29555 10000 7822 6500	

	ELECTRICAL S	YMBO	LS LEGEND
-#\	CONDUIT CONCEALED IN CEILING OR WALL	\$	SWITCH - SINGLE POLE
/#\	CONDUIT CONCEALED IN FLOOR SLAB	\$ 3, 4	3-WAY, 4-WAY
<u> </u>	EXPOSED CONDUIT	"A"	LIGHT FIXTURE AND TYPE
/#~ \	HOMERUN – ARROW INDICATES CKT., LINES INDICATE WIRES		FLUORESCENT LIGHT FIXTURE
\rightarrow	GROUND WIRE	Х	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK
lı·	GROUNDING ROD		FIXTURE ON LIFE SAFETY BRANCH OF EMERGENCY SYSTEM
φ	SINGLE RECEPTACLE	0 🗆	INCANDESCENT OR H.I.D. LIGHT FIXTURE
Ø	DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)	어머	INCANDESCENT OR H.I.D. LIGHT FIXTURE (WALL MOUNTED)
#	FOURPLEX RECEPTACLE	<u>ର</u> ର୍	EXIT LIGHT (CEILING OR WALL MOUNTED)
ф	208 OR 240 VOLT RECEPTACLE (20 AMP UNLESS NOTED)		FLUSH PANELBOARD (LIGHT & RECEPTACLES)
۲	FLOOR DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)		SURFACE PANELBOARD (LIGHT & RECEPTACLES)
▼	TELE/DATA OUTLET *		DISTRIBUTION PANEL OR SWITCHBOARD
∇	TELE/DATA OUTLET *	AC	DEVICE LOCATED ABOVE COUNTER
Б	PUSHBUTTON	AFF	ABOVE FINISHED FLOOR
S	CEILING SPEAKER	D	DIMMER
Ŷ	BELL	E	INDICATES EXISTING DEVICE
ý	MOTOR	EDF	ELECTRIC DRINKING FOUNTAIN
\$	FUSIBLE SWITCH (BUSSMAN SSU)	GFI	GROUND FAULT INTERRUPTER
Ю	DISCONNECT SWITCH (D.S.)	NL	NIGHTLIGHT FIXTURE, WIRED HOT
ЧX	COMBINATION MOTOR STARTER (CMS)	WP	WEATHERPROOF
R	RELAY	•	CONNECT NEW TO EXISTING
	JUNCTION BOX		LOCKABLE GUARD
φ	THERMOSTAT		

Luminaire Schedule - Units and Buildings

MARK	DESCRIPTION	MFGR	MODEL	MOUNTING	FINISH	LAMPS	NOTES
Α	Disk Light	Halo	SLD612/8030/WH	jb/surface	white	1200 Lumen 3000K 15W LED	Wet Location
В	Counter pendant	Hudson Valley	Lambert #612-OB	pendant	old bronze	1-15W LED	
С	Tub/shower	Halo	SLD606/8030/WH	jb/surface	white	1200 Lumen 3000K 15W LED	Wet Location
D	Vanity Sconce	Custom	To match Stephan Outdoor Sconce	wall	aged iron	1 - 12W LED	
E	Entry/Patio Light	Avenue	54350ABZ	wall	bronze	2-8W LED	Wet Location
F	5-blade fan, 3-spd, rev. w/globe	Minka-Aire	Aviation #F852L-BN/CL with light	surface	coal	1-15W LED	Energy Star - dimmable
G	Glass globe - small	Nuvo/Rensen House	041203	surface	br. nickel	1-10W LED	
SL1	Pole Light	Cooper	GLEON-SA1-D-740-U-T3-BZ	pole	braonze	67W 8,125 Lumen 4000K	16 ft pole



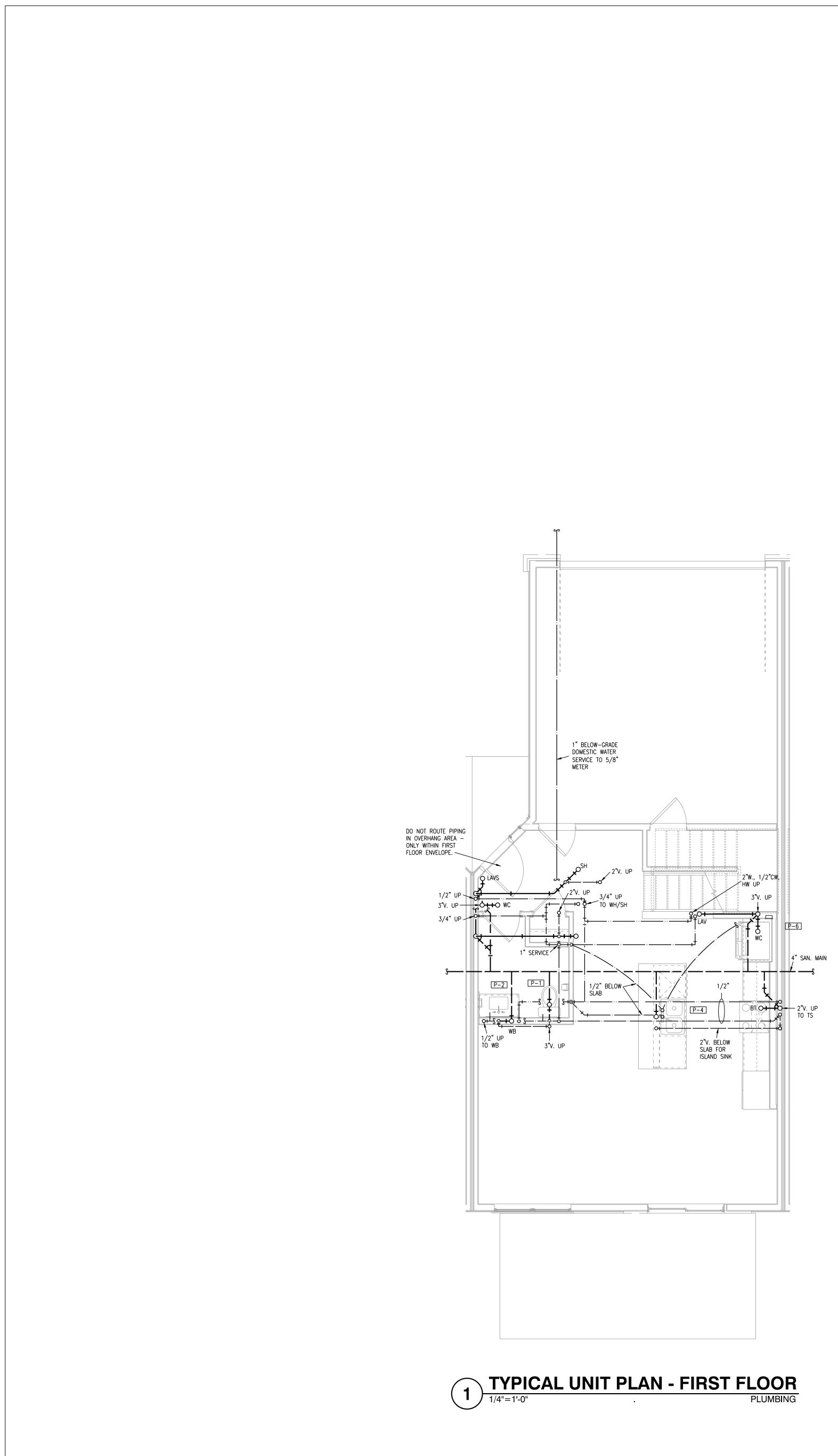
Mult	i-Family	y Building Load Analy	sis
Building:	4-UNIT		
Unit Quantity	Unit Type	Connected Load - VA	Total KV
4	TH	39555	158.2
		Total Building KVA	158.2
		Total Units Per Entrance	
		Diversity per NEC Table 220.84	0.4
		Diversified KVA	71.2
		Amps @ 240 V Single Phase	296.6
		House Load - Amps	1
		Total Transformer Demand - Amps	306.6
		y Building Load Analy	/sis
Building:	6-UNIT		
Unit Quantity	Unit Type	Connected Load - VA	Total KV
6	TH	39555	237.3
		Total Building KVA	237.3
		Total Units Per Entrance	
		Diversity per NEC Table 220.84	0.4
		Diversified KVA	104.4
		Amps @ 240 V Single Phase	435.1
		House Load - Amps	1
		Total Transformer Demand - Amps	445.1
	and the second se	y Building Load Analy	/SIS
Building:	8-UNIT		
Unit Quantity	Unit Type	Connected Load - VA	Total KV
8	TH	39555	316.4
		Total Building KVA	316.4
		Total Units Per Entrance	
		Diversity per NEC Table 220.84	0.4
		Diversified KVA	136.0
		Amps @ 240 V Single Phase House Load - Amps	566.9 1

Total Transformer Demand - Amps 576.96

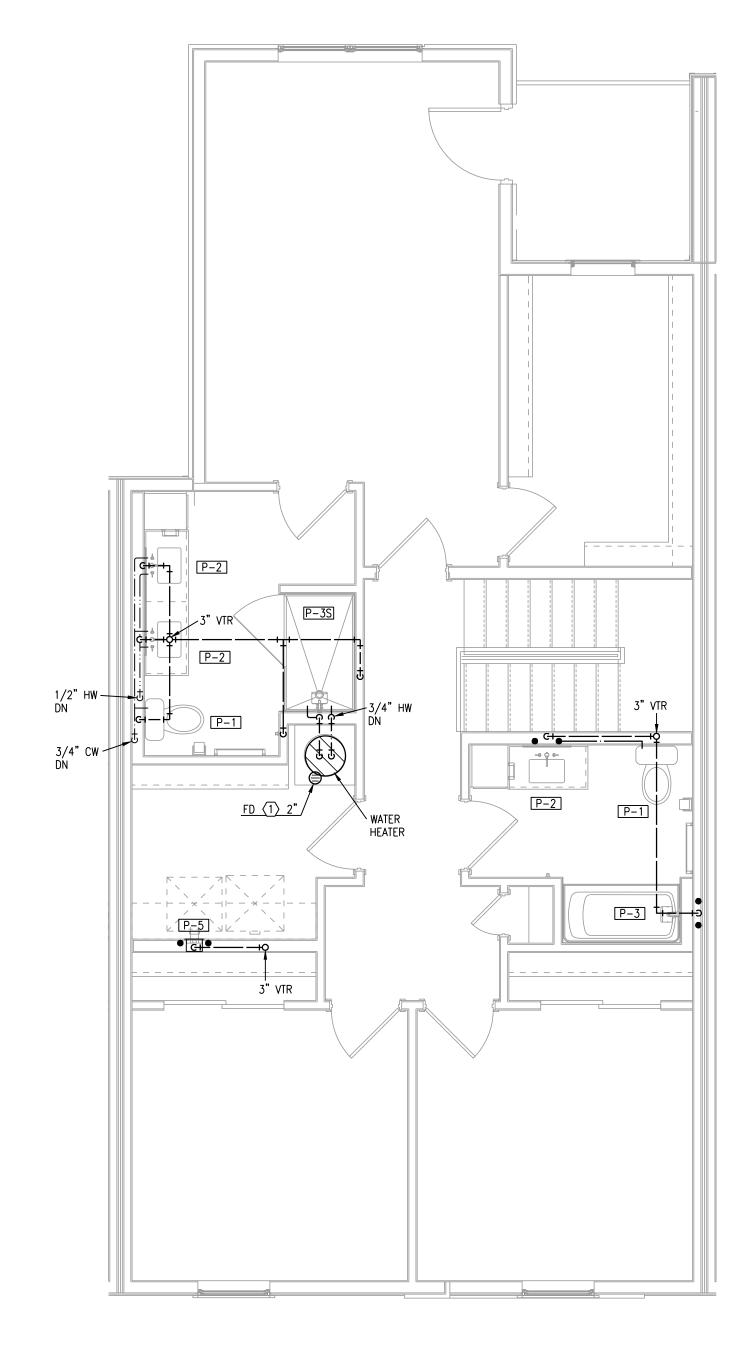


CONSTRUCTION As Noted on Plans Review s Summit, Missouri RICHARD BEARDMON C S σ . 0 ഗ 5 σ 0 an ARCHITECTS TR,i Architects 9812 Manchester Road T: 314-395-9750 F: 314-395-9751 St. Louis, Missouri 63119 C Copyright 2018 www.triarchitects.com DATE: 9.2.2021 REVISIONS /# 9-24-2021 PERMIT COMMENTS CAD/RRB DWG BY TR, i PROJECT NO. 20-078 SHEET NO. E201 ELECTRICAL DETAILS AND SCHEDULES

RELEASED FOR







	NOTES:					
\wedge	1.	ROUTE TOP FLOOR SUPPLY PLUMBING IN CEILING BELOW. NO SUPPLY IN ATTIC.				
	2.	PROVIDE AIR SHOCK SUPPRESSORS CONFORMING TO ASSE 1010 ON P-4, P-5. AND P-6.				
	3.	CONNECT DISHWASHERS, DISPOSERS, ICE MAKERS, WASHERS.				
	4.	PROVIDE 2" FLOOR DRAIN AT EACH AHU/WH LOCATION				
	5.	ROUTE 1/2" PEX TO EACH FIXTURE FROM MANIFOLD, 3/4" TO TWO OR MORE FIXTURES.				

