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. Specification for Structural Steel Buildings (AISC 360-16)
      Member Design Basis is Allowable Stress Design (ASD)
      Connection Design Basis is Allowable Stress Design (ASD)
   4. Structural Welding Code (AWS D1.4-17)
   5. Building Code Requirements for Structural Concrete (ACI 318-14)
   6. Building Code Requirements for Masonry Structures (TMS 402-16)
   7. North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100-16)
   8. National Design Specification (NDS) for Wood Constriction with 2018 Supplements (ANSI/AWC NDS-2018)
   9. 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

A. Dead Load:
   Floor, Apartment = 35 psf
   Floor, Balony = 15 psf
   Floor, Corridor (Above Podium) = 25 psf
   Garage Collateral = 5 psf
   Roof = 25 psf
   Stair, Metal Pan = 60 psf
   Stair, Wood = 25 psf
B. Live Load:
   Floor, Apartment = 40 psf
   Floor, Balcony = 60 psf
   Floor, Corridor (Serving Apartment) = 40 psf
   Floor, Corridor)Serving Public) = 100 psf
   Floor, Public (Clubhouse) = 100 psf
   Floor, Storage = 125 psf
   Garage = 40 psf
   Roof = 20 psf
   Roof, MEP Equipment Zone = 45 psf
   Stair = 100 psf

C. Snow:
   Pg = 20psf, Ce = 1.0
   Pf = 14 psf (Apt) & 16.8 psf (Garage), Pm = 20 psf
   Is = 1.0, Cs = 1.0, Ct = 1.0 (Apt) & 1.2 (Garage)
   Drift & unbalanced snow loads per ASCE/SEI 7-16
D. Lateral Loads:
   1.) Wind V(ult) = 109 mph, exposure C. Iw=1.0 GCpi=+/-0.18
   Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7-16. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable
   2.) Seismic: Ss = 0.099, S1 = 0.068, Ie=1.0,
   Site Classification D
   Seismic Design Category B
   Basic Seismic Force-resisting System:
      At Podium:
         A.2 - Ordinary Reinforced Concrete Shear Walls
         R = 4, Omega = 4, Cd = 2 1/2, V = 0.053W
      At Apartments Above Podium:
         A.17 - Light-Framed Walls with Shear Panels of All Other Materials
         R = 2, Omega = 2 1/2, Cd = 2, V = 0.053W
      At Precast Garage:
         A.6 - Ordinary Precast Shear Walls (N/S Direction)
         R = 3, Omega = 2 1/2, Cd = 3, V = 0.035W
         B.9 - Ordinary Precast Shear Walls (E/W Direction)
         R = 4, Omega = 2 1/2, Cd = 4, V = 0.026W
E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the 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 interior flatwork (without floor covering) 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).
C. All concrete for interior flatwork (with floor covering) 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.
E. All concrete for columns shall develop a minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 560 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5 gallons of water per 100 pounds of cement and not over 4 inches of slump.
F. 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.
G. 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.
H. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
I. 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.
J. 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.
K. 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.
L. 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.
M. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
N. 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.
O. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel

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"
   4. Beams or Columns: 1-1/2"
   5. Other 2"
   All coverage shall be nominal bar diameter minimum.
C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
D. 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.
I. 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.
J. Allow 2 tons 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 be included).

5. Structural Steel

A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade C. Fabrication and erection shall be in accordance with AISC 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
B. All welding shall conform to the recommendations of the AWS.
C. All exterior steel and connections, and brick relief angles shall be hot-dip galvanized.
D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, Vn/Omega, shown in the maximum total uniform load tables, whichever is greater; and, shall account for eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Additional connection elements may not be specifically shown in the conceptual details in this set but may be required by the final connection design, such as stiffener plates, doubler plates, supplement/reinforcing plates or other connection material. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his/her seal.
E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. At braced frames washers shall be welded all around to the column base plate with 3/16” fillet weld.
F. Allow 2.0 tons structural steel to be used as directed in field for special conditions by the engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included. 50% of structural steel allowance shall be bid as miscellaneous galvanized angle and plate.

6. Post Installed Anchors

A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as 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 qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified 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.
E. 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 Terracon, the report number is 02215169 and the telephone number is 913-492-7777.
B. Structural foundations consist of a network of stright shaft auger pressure grouted piles established on moderately weathered shale capable of safely supporting 40ksf end bearing. Each pile shall penetrate 5'-0" minimum into the moderately weathered shale. Spread footing and shallow foundations for ancillary structures are designed to bear on engineered fill or undisturbed soil capable of safely supporting 1,500 psf.
C. Retaining walls are designed for an active lateral load of 50 pcf equivalent fluid pressure.
D. Basement walls are designed for an at rest lateral load of 70 pcf equivalent fluid pressure. See General Note 3.J for wall bracing requirements.
E. Contractor shall provide for dewatering at excavations from either surface water or seepage.
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, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

8. Drilled Auger Pressure-Grouted Piers

A. Piers not otherwise indicated shall be 30" diameter.
B. All piers shall have (4) #7x6'-0" hooked dowels unless otherwise indicated.
C. Pier dowels shall extend 40 diameters above top of pier. Driving dowels into concrete after initial set is not allowed.
D. Refer to the specifications (sections for excavation and concrete) for other detailed requirements.
E. Pier concrete to have 6" slump.

9. Concrete Masonry Units

A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 2650 psi and laid up using type N mortar such that f'm equals 2000 psi. Mortar shall be volume proportion based cement lime mortar. Proportioning shall be completed by box measure. Any block in contact with earth shall be normal weight units, laid using type "S" mortar and grouted solid.
B. The contractor shall provide adequate temporary bracing for all masonry walls during construction.
C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (16" maximum vertical spacing).
D. Cavity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by the architectural drawings.
E. Concrete block shall be reinforced as follows in 6", 8", 10", and 12" walls:
   1. Vertical reinforcing shall be a minimum of 1 - #4 bar in 6" and 8" walls and 2 - #4 bars in 10" and 12" walls at 4'-0" on center, at each corner, at each door and window jamb, each side of control joints and in the end void of each length of wall. Lap splices for masonry vertical reinforcing shall be 48 bar diameters or 24" minimum.
   2. Horizontal reinforcing:
      A. Horizontal joint reinforcing as noted above.
      B. Continuous horizontal bars shall be included per section or detail in bond beam or optional running bond beam where noted. Where bond beams are continuous at corners of walls, supply corner bars matching size of horizontal bars (minimum 2'-0" or 40 bar diameters in each direction).
F. Grout, where noted above, shall have a minimum design ultimate compressive strength of 2500 psi at 28 day test and 3/8" maximum aggregate size.
G. Non-load bearing concrete block walls shall be isolated from adjacent structural elements with vertical 3/8" control joints and at the top of the wall with 1" air space or compressible material and support per architectural detail.
H. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All bond beam horizontal reinforcing shall be continuous through control joints.
I. Lintels over all openings up to 8'-0" wide in new and existing masonry walls not otherwise covered shall be one 6x3 1/2x5/16 angle for each 4" width of masonry. All exterior lintels to be galvanized.
J. Walls shall be anchored top and bottom by dowels matching wall vertical reinforcing(unless noted otherwise) from floor slab bottom and bracing angles at the top, per details on the drawings.

10. Light Gage Metal Structural Framing

A. All load bearing, light gage structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans, minimum.
B. All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi.
C. All properties, fabrication, and erection shall be in accordance with latest editions of the AISI "Specifications for the Design of Cold-Formed Structural Members."
D. All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted.
E. Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans.
F. Prior to fabrication and/or erection, the contractor shall submit shop drawings complete with detail of erection, fabrication, attachments, anchorages, lintels, etc., for review by the architect/engineer.

11. 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 2018 International 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 of 1,600,000psi unless noted otherwise. All joist, truss members, and headers to be No. 2 grade (min.) unless noted otherwise. All lumber for exterior decks and balconies shall be treated Southern Yellow Pine No. 2 grade.
C. Bridging 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 2018 International Building Code. Floor sheathing shall be APA rated tongue and groove Sturd-I-Floor, exposure 1, glued and nailed with 10d nails or # 10 screws at 12" on center field. 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. .
F. Sill plates shall be bolted to concrete slabs with 1/2" diameter bolts at 32" on center (UNO, re: shearwall schedule.) Provide plate washers at sill plate anchors for shearwalls per shearwall schedule. Plates in direct contact with concrete or masonry shall be preservative-treated .
G. All hangers, ties and connections shown are based on Simpson Strong Tie as the basis of design, provide Simpson Strong Tie or an approved equal. Joist hangers shall be equal to "LUS" for wood application and "LB" for steel weld-on application. Roof truss ties shall be equal to "H2.5A" and tie the roof truss to the top plate (provide (2) "H2.5A" diagonally across from each other when uplift load shown in truss shop submittal exceeds 600lbs). Roof girder ties shall be equal to a "LGT2", "LTG3" or "LGT4" tie (dependent on number of plies) and tie the truss girder to the top plate. Provide "H2.5A" at the top of each stud to top track when the top track has roof truss attached.
H. Service condition - dry with moisture content at or below 19% in service.
I. Laminated strand lumber (LSL) shall have an allowable flexural stress (Fb) of 1,700 psi (reduced by size factor) and an elastic modulus (E) of 1,300,000 psi.
J. 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 2,000,000 psi.
K. 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. ((E) = 2,200,000 psi for members > 18").
L. Glulams shall be 24F-V8 or better with an allowable flexural stress (Fb) of 2,400 psi and an elastic modulus (E) of 1,800,000 psi. Exterior glulams shall be moisture-resistant treated.
M. 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.
N. Truss 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. Calculations and layout plan shall bear the seal of a professional engineer, registered in the state of the project location. Layout plan shall incldue truss locations, spacing and all hanger designations used to support trusses to beams or other trusses. Calculations shall indicate max reactions in all directions, number of plies for the truss and dead, live and total load deflections along with a list or key of all standard and non-standard utilized load combination. Shop drawings shall also be submitted to the local government controlling agency when requested by that agency.
O. 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.
P. 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.
Q. Provide truss space directly above and centered over HVAC closets. Refer to Architectural and MEP drawings for exact locations.
R. 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.
S. Pre-Engineered Floor Trusses:
   Top Chord Dead Load = 30 psf
   Top Chord Live Load = Per General Note 5B
   Bottom Chord Dead Load = 10 psf
   Live Load Deflection = L/480; (1/2" max)
   Total Load Deflection = L/360
T. Roof Truss Design Criteria:
   Top Chord Dead Load = 15 psf (TPO Roof)
   Top Chord Live Load = 20 psf (Plus Rooftop Equipment)
   Top Chord Snow Load = 20 psf or 14 psf plus Drift
   Bottom Chord Dead Load = 10 psf
   Bottom Chord Live Load = 5 psf
   Live Load Deflection = L/360
   Total Load Deflection = L/300
U. Roof trusses shall be designed per IBC 2018 for net uplift resulting from wind loading as calculated using components and cladding loading. Top and bottom chord dead load used in combination with wind uplift shall be 5psf for each chord.
V. Construction bracing shall be provided by the contractor as required to keep the building and studs plumb.
W. Structural members shall not be cut for pipes, etc., unless specifically detailed. Nothing and boring of studs and top of plates shall conform to the provisions of section 2308.9.10 and 2308.9.11 of the IBC. Where top plates or sole plates are cut for pipes, a metal tension tie with minimum 0.058 inches thick and 1 1/2" inches wide shall be fastened to each plate across and to each side of the opening with not less than (6) 16d nails, in accordance with section 2308.9.8 of the IBC.
X. All fasteners for wood to wood connections and wood connectors shall be as indicated in structural drawings or manufacturer literature to achieve full capacity of connector. Alternate fasteners may be submitted as a substitution request. Submittal must show that alternative fasteners will not reduce the capacity of the connection.

12. Precast Concrete Members

A. The contractor/supplier is responsible for the design of all the precast members and connection between them and other structural members. Submit design calculations, sealed by an engineer licensed in the state of the project location, for review by the architect/engineer of record.
B. All precast members are to be designed in accordance with ACI 318-11, 2012 IBC and other applicable codes, standards (see specs) and design criteria shown on design documents.
C. Precast concrete members shall conform to the 2012 IBC for the required fire ratings (refer to architects documents).
D. All wall panels should be designed for building wind loads, seismic loads, gravity loads, and transmit these loads to the foundation through properly designed connections.
E. Provide blockouts and openings for mechanical/electrical equipment. Refer to mechanical/electrical documents.
F. Shop drawings shall be complete and shall include a layout plan, fabrication details, estimated camber, connection and anchorage details and member identification marks. Identification marks shall appear on manufactured units to facilitate correct field placement.

13. Deferred Submittal and Shop Drawing

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 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.
B. Deferred submittals shall be submitted to the architect of record for review who shall forward to the building official for review and approval. Design calculations for deferred sub mittals shall be submitted at the same time as the shop drawings for review. Design calculations shall be prepared and sealed by a Professional Engineer licensed in the state of the project. The deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official.
C. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
   1. Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
   2. Review and approve each submission.
   3. Stamp each submission as approved.
D. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
E. Bob D. Campbell and Company, Inc. shall review shop drawings and related 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.
F. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
   1. Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
   2. Reinforcing steel shop drawings including erection drawings and bending details.Bar list will not be reviewed for correct quantities.
   3. Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1’-0" showing all required reinforcing.
   4. Grout mix designs (for CMU).
   5. Construction and control joint plans and/or elevations.
   6. Structural steel shop drawings including erection drawings and piece details. Include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
   7. Defferred Submittal: Railings and guardrails with sealed calculations
   8. Defferred Submittal: Metal stair framing with sealed calculations
   9. Defferred Submittal: Exterior cold-formed metal framing
   10. Defferred Submittal: Exterior curtain wall
   11. Deferred Submittal: Structural steel connection design calculations submitted concurrently with structural steel shop drawings.
   12. Miscellaneous anchors shown on the structural drawings.
   13. Deferred Submittal: Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings need not be submitted.
   14. Standard details and bridging information for light gage metal framing. Erection plans and details for light gage metal joists and lintels spanning more than 6’-0" shall be submitted. Standard wall framing need not be submitted.
   15. Deferred Submittal: Augured pile foundation plans and details.
   16. Deferred Submittal: Precast concrete shop drawings including erection drawings and connection details.
   17. Deferred Submittal: Precast concrete connection design calculations.
   18. Deferred Submittal: Cold-Formed metal framing for exterior walls.

14. 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 – structural steel per Section 1704.2.5 unless AISC certified shop
   2. Shop Fabrication – pre-engineered wood trusses per Section 1704.2.5 unless TPI certified shop
   3. Shop Fabrication – precast concrete per Section 1704.2.5 unless PC certified shop
   4. Steel Construction per Section 1705.2 and the quality assurance requirements of AISC 341 Chapter J (as referenced by AISC 360)
   5. 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
      i. Prestressed Concrete Stressing and Grouting
      j. Erection of Precast
      k. Verification of In-situ Concrete Strength Prior to Stressing Post-Tensioned Concrete
      l. Formwork Shape, Location and Dimensions
   6. Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 402/ACI530/ASCE5 and TMS602/A530.1/ASCE6 Level B
   7. Verification of Soils per Table 1705.6
   8. Inspections and Tests of Cast-In-Place Deep Foundation per Table 1705.8
   9. 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
   10. 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)

15. Copyright and Disclaimer

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, Christopher A. Beverlin, 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.

STRUCTURAL ABBREVIATIONS

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

STRUCTURAL DECK & SLAB SCHEDULE

MARK	DESCRIPTION
FD-1	1" TO 1 1/4" GYPCRETE ATOP 23/32" APA RATED T&G STURD-I-FLOOR, EXP 1 SHEATHING. SHEATHING SHALL BE GLUED AND NAILED W/ 8d RING SHANK NAILS OR #10 SCREWS AT 6"o.c. AT EDGES & 12"o.c. AT FIELD.
CD-1	3" NORMAL WEIGHT CONC. SLAB (4500psi, AIR-ENTRAINED) REINFORCE WITH CELLULOSE FIBER AT 1.5 LBS/CU. YD. ATOP WATERPROOFING MEMBRANE (RE: ARCH.) ATOP 15/32" EXTERIOR GRADE PLYWOOD SHEATHING (SLOPE PER ARCH.) RE: NOTE 5
CD-2	3" NORMAL WEIGHT CONC. SLAB (4500psi, AIR-ENTRAINED) REINFORCE WITH CELLULOSE FIBER AT 1.5lb/cu. yd. ATOP PRECAST STAIR LANDING
CD-3	3" NORMAL WEIGHT CONC. SLAB (4500psi, AIR-ENTRAINED) REINFORCE WITH CELLULOSE FIBER AT 1.5lb/cu. yd. ATOP 2" RIGID INSULATION ATOP WATERPROOFING PER ARCH ATOP PODIUM SLAB. SLOPE TO DRAIN PER ARCH. RE: NOTE 5
SOG-1	4" CONC. SLAB (4000psi) REINFORCE WITH 6x6-W2.9xW2.9 WWF ATOP 15 MIL VAPOR BARRIER ATOP 4" OF 3/4" CLEAN GRANULAR LEVELING COURSE ATOP SUITABLE SUBGRADE MATERIAL PER GEOTECH SPECIFICATIONS. T/SLAB EL. = PER PLAN, SLOPE TO DRAIN
SOG-2	4" CONC. SLAB (4500psi, AIR-ENTRAINED) REINFORCE WITH 6x6-W2.9xW2.9 WWF ATOP 4" OF 3/4" CLEAN GRANULAR LEVELING COURSE, ATOP SUITABLE SUBGRADE MATERIAL PER GEOTECH SPECIFICATIONS T/SLAB EL. = PER PLAN, SLOPE TO DRAIN
SOG-3	8" CONC. SLAB (4500psi, AIR-ENTRAINED) REINFORCE WITH #4 @ 12"oc EACH WAY BOTTOM ATOP 4" OF 3/4" CLEAN GRANULAR LEVELING COURSE, ATOP SUITABLE SUBGRADE MATERIAL PER GEOTECH SPECIFICATIONS. T/SLAB EL. = PER PLAN, SLOPE TO DRAIN
SOG-4	6" CONC. SLAB (4500psi, AIR-ENTRAINED) REINFORCE WITH #4 @ 12"o.c. EACH WAY ATOP 4" OF 3/4" CLEAN GRANULAR LEVELING COURSE, ATOP SUITABLE SUBGRADE MATERIAL PER GEOTECH SPECIFICATIONS T/SLAB EL. = PER PLAN, SLOPE TO DRAIN
RD-1	19/32" APA RATED, EXP 1 SHEATHING ATTACHED WITH #10 SCREWS AT 6"o.c. AT EDGES & 12"o.c. AT FIELD. (PROVIDE FRT TREATED PLYWOOD AT FIREWALLS - REFER TO ARCH DRAWINGS FOR LOCATION AND EXTENTS)
RD-2	23/32" APA RATED T&G STURD-I-FLOOR, EXP 1 SHEATHING. SHEATHING SHALL BE GLUED AND NAILED W/ 10d RING SHANK NAILS OR #10 SCREWS AT 4"o.c. AT EDGES & 12"o.c. AT FIELD WITH ALL EDGES BLOCKED

NOTES:
1. FD = FLOOR DECK TYPE.
2. CD = CONCRETE DECK TYP.
3. SOG = SLAB-ON-GRADE TYP.
4. RD = ROOF DECK TYP.
5. PROVIDE 1" DEEP TOOLED CONTROL JOINT (TRANSVERSE DIRECTION) @ MID-SPAN OF BALCONY (8'-0" MAX SPACING) FILL JOINT w/ SEALANT.

LEGEND:

⟷	SPAN DIRECTION OF DECK - DECK TYPE PER SCHEULE ON S0.01
(1) HSS 6x6x1/4	COLUMN SIZE
(1)	BASE PLATE MARK - SEE SCHEDULE ON SHEET S0.04
(A#-#)	BEAM OR HEADER PER SCHEDULE ON S0.02
(A#-#u)	UPSET BEAM OR HEADER PER SCHEDULE ON S0.02
#	BEARING WALL TYPE PER SCHEDULE ON S0.02
(A)	SHEARWALL HOLDDOWN TYPE PER SCHEDULE ON S0.03
◇#	NUMBER OF WALL STUDS IN STUD PACK
◇#/#	NUMBER OF JACK STUDS/KING STUDS IN STUD PACK
◇A	PLAN NOTE PER SCHEDULE ON S0.02
SW#	SHEARWALL TYPE PER SCHEDULE ON S0.03
CSW#	CONCRETE SHEARWALL TYPE PER SCHED ON S0.10
3/4"	AMOUNT OF UPWARD POSITIVE CAMBER
8	PILE CAP SIZE PER SCHEDULE ON S3.02
A	SHEAR RAIL TYPE PER SCHEDULE ON S3.15

STRUCTURAL SHEET LIST

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S0.04	STEEL SCHEDULES	3	7.20.22
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S0.06	WOOD SHRINKAGE & MOVEMENT		
S0.10	CONCRETE SCHEDULE	2	7.11.22
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S1.11A	BUILDING A FOUNDATION PLAN	3	7.20.22
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S1.14A	BUILDING A FOURTH FLOOR FRAMING PLAN	3	7.20.22
S1.15A	BUILDING A ROOF FRAMING PLAN	3	7.20.22
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S1.32C	BUILDING C SECOND FLOOR FRAMING PLAN	3	7.20.22
S1.33C	BUILDING C THIRD FLOOR FRAMING PLAN		
S1.34C	BUILDING C FOURTH FLOOR FRAMING PLAN	3	7.20.22
S1.35C	BUILDING C ROOF FRAMING PLAN	3	7.20.22
S1.36C	BUILDING C SHEARWALL PLAN	3	7.20.22
S1.41D	BUILDING D FOUNDATION PLAN	3	7.20.22
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S1.51E	BUILDING E FOUNDATION PLAN	3	7.20.22
S1.52Ea	BUILDING E PODIUM SLAB REINFORCEMENT PLAN	2	7.11.22
S1.52Eb	BUILDING E PODIUM STUD RAIL & SLAB GEOMETRY PLAN	2	7.11.22
S1.53E	BUILDING E THIRD FLOOR FRAMING PLAN	3	7.20.22
S1.54E	BUILDING E FOURTH FLOOR FRAMING PLAN	3	7.20.22
S1.55E	BUILDING E FIFTH FLOOR FRAMING PLAN	3	7.20.22
S1.56E	BUILDING E ROOF FRAMING PLAN	3	7.20.22
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S1.61F	BUILDING F FOUNDATION PLAN	3	7.20.22
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S2.05	STAIR FRAMING - BUILDING F	2	7.11.22
S2.10	STAIR FRAMING DETAILS	2	7.11.22
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S3.42	WOOD ROOF FRAMING DETAILS		
S3.45	WOOD FIREWALL DETAILS	3	7.20.22
S3.50	PRECAST GARAGE FRAMING DETAILS		
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paragon
star

PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description
1	6.08.22	Permit Response
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012583
7-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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SHEET TITLE

GENERAL NOTES

SHEET NUMBER

S0.01

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NAILING SCHEDULE (REFER TO NOTES #1 and #2)

CONNECTION	ATTACHMENTS (REF NOTE #3 and #4)	
JOIST TO SILL OR GIRDER	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
BRIDGING TO JOIST	2- 3" x 0.131" NAILS-TOENAIL EACH END	2-8d NAILS-TOENAIL EACH END
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 NAILS AT 16"o.c. MAX. FACE NAILING 3-16d BOX NAILS AT 16"o.c. BRACED WALL PANEL
TOP PLATE TO STUD	3- 3" x 0.131" NAILS-END NAIL	2-16d NAILS-END NAIL
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 2-16d NAILS-END NAIL
DOUBLE STUDS	3" x 0.131" NAILS AT 8"o.c.-FACE NAIL	16d BOX NAILS AT 24"o.c. MAX. FACE NAIL
DOUBLED TOP PLATES	3" x 0.131" NAILS AT 12"o.c.-FACE NAIL	16d BOX NAILS AT 16"o.c. MAX. FACE NAIL
DOUBLE TOP PLATE LAPS AND INTERSECTIONS	12-3" x 0.131" NAILS	8-16d NAILS
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-3" x 0.131" NAILS -TOENAIL	3-8d NAILS-TOENAIL
RIM JOIST TO TOP PLATE	3" x 0.131" NAILS AT 6"o.c.-TOENAIL	8d NAILS AT 6"o.c. MAX.-TOENAIL
TOP PLATE LAPS AND INTERSECTIONS	3- 3" x 0.131" NAILS-FACE NAIL	2-16d NAILS-FACE NAIL
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-TOENAIL
CEILING JOISTS TO PLATE	5- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
CONTINUOUS HEADER TO STUD	4- 3" x 0.131" NAILS-TOENAIL	4-8d NAILS-TOENAIL
CEILING JOISTS, LAPS OVER PARTITIONS	4- 3" x 0.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL
CEILING JOISTS TO PARALLEL RAFTERS	4- 3" x 0.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL
RAFTER TO PLATE	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
1" BRACE TO EACH STUD AND PLATE	2- 3" x 0.131" NAILS-FACE NAIL	2-8d NAILS-FACE NAIL
BUILT-UP CORNER AND MULTIPLE STUDS	3" x 0.131" NAILS AT 16"o.c.	16d NAILS AT 24"o.c. MAX.
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. TOP AND BOTTOM, STAGGERED ON OPPSITE SIDES. 2-20d NAILS AT ENDS AND EACH SPLICE
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 AND BOTTOM ALONG EDGE
2" PLANKING	4- 3" x 0.131" NAILS AT EACH SUPPORT	16d NAILS AT EACH SUPPORT

NOTES:
1. ALL NAILS SHALL BE AS NOTED UNLESS OTHERWISE SPECIFIED ON STRUCTURAL DRAWINGS OR ALTERNATE PROVIDED BY ENGINEER IN WRITING.
2. CONDITIONS NOT SPECIFIED SHALL BE IN ACCORDANCE WITH CURRENT INTERNATIONAL BUILDING CODE.
3. NAILING DESIGNATION:

   4 - 3" x 0.131" NAILS
   - 4 = QUANTITY
   - 3" = NAIL LENGTH
   - 0.131" = DIAMETER IN INCHES

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

FLOOR AND ROOF FRAMING HEADERS AND BEAMS SCHEDULE

MARK	FLOOR	JAMB TYPE # (U.N.O. W/ COLUMN SCHEDULE)				NOTES
		" 4 "	" 3 "	" 2 "	" 1 "	
A1-#	(2) 2x8	1 JACK / 3 KING	1 JACK / 2 KING	1 JACK / 2 KING	1 JACK / 2 KING	
B1-#	(2) 2x10	1 JACK / 5 KING	1 JACK / 2 KING	1 JACK / 2 KING		
B2-#	(2) 2x10	ABOVE PODIUM: 5 KING ABOVE SOG: 4 KING	4 KING	3 KING		UPSET BEAM TIGHT TO B/SUBFLOOR (RE: 7 & 7A ON S3.30)
D1-#	(3) 2x8	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	1 JACK / 1 KING	
D2-#	(3) 2x8	1 JACK / 3 KING	1 JACK / 2 KING	1 JACK / 2 KING	1 JACK / 1 KING	
D3-#	(3) 2x8	@ END JAMB: 3 KING @ INT JAMB: 4 KING	@ END JAMB: 2 KING @ INT JAMB: 3 KING	@ END JAMB: 2 KING @ INT JAMB: 3 KING		
D4-#	(3) 2x8	@ END JAMB: 4 KING @ INT JAMB: 5 1/4"x7" PSL COL	@ END JAMB: 2 KING @ INT JAMB: 3 KING	@ END JAMB: 2 KING @ INT JAMB: 3 KING		
D5-#	(3) 2x8	5 KING	4 KING	3 KING		
E1-#	(3) 2x10	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	1 JACK / 1 KING*	* PROVIDE (2) KING STUDS @ RAISED TOP PL
E2-#	(3) 2x10	1 JACK / 3 KING	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	
E3-#	(3) 2x10	5 KING	2 KING	2 KING		
F1-#	(3) 2x12	1 JACK / 3 KING	1 JACK / 2 KING	1 JACK / 2 KING	1 JACK / 1 KING*	* PROVIDE (2) KING STUDS @ RAISED TOP PL
F2-#	(3) 2x12	1 JACK / 5 KING	1 JACK / 2 KING	1 JACK / 2 KING		
F3-#	(3) 2x12	2 JACK / 5 KING	2 JACK / 4 KING	2 JACK / 3 KING		
G1-#	@ FLOOR: 1 1/4"x18" CONT LSL RIMBOARD w/ 18"Dp PRE-ENG TRUSS @ ROOF: GIRDER TRUSS	ABOVE PODIUM: 8B/S3.30 ABOVE SOG: 8A/S3.30	8C/S3.30	8D/S3.30	8D/S3.30 w/ LSTA12 @ EA END OF GIRDER TRUSS	DESIGN TRUSS TO SPAN OPENING FOR DL=200plf, LL=250plf (UNFACTORED), REFER TO DTL X/S3.30
G2-#	@ FLOOR: 1 1/4"x18" CONT LSL RIMBOARD w/ 18"Dp PRE-ENG TRUSS @ ROOF: GIRDER TRUSS	4 KING	4 KING	4 KING	3 KING w/ LSTA12 @ EA END OF GIRDER TRUSS	DESIGN TRUSS TO SPAN OPENING FOR DL=200plf, LL=250plf (UNFACTORED), REFER TO DTL X/S3.30
J1-#	(3) 1 3/4"X7 1/4" LVL	5 1/4"x7" PSL COL	5 KING	3 KING	1 JACK / 1 KING	
J2-#	(3) 1 3/4"X7 1/4" LVL	2 JACK / 3 KING	2 JACK / 2 KING	2 JACK / 1 KING		
J3-#	(3) 1 3/4"X7 1/4" LVL	1 JACK / 3 KING	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	
L1-#	(3) 1 3/4"X9 1/4" LVL	2 JACK / 2 KING	2 JACK / 2 KING	2 JACK / 1 KING	2 JACK / 2 KING	
L2-#	(3) 1 3/4"X9 1/4" LVL	2 JACK / 5 KING	2 JACK / 2 KING	2 JACK / 2 KING	1 JACK / 2 KING	
N1-#	(3) 1 3/4"X11 1/4" LVL	2 JACK / 5 1/4"x5 1/4" PSL COL	2 JACK / 2 KING	2 JACK / 1 KING	3 KING	
N2-#	(3) 1 3/4"X11 1/4" LVL	5 1/4"x9 1/4" PSL COL	5 KING	3 KING		
N3-#	(3) 1 3/4"X11 1/4" LVL	1 JACK / 3 KING	1 JACK / 2 KING	1 JACK / 2 KING		
T1-#	(2) 1 3/4"x18" LVL		5 KING	4 KING		PROVIDE HB3.56/18 HANGER @ STEEL BEAM CONNECTION
U1-#	(3) 1 3/4"x18" LVL	4 KING	3 KING	2 KING		
U2-#	(3) 1 3/4"x18" LVL	5 1/4"x9 1/4" PSL COL	5 KING	3 KING		

NOTES:
1. REFER TO GENERAL NOTE "11.B" FOR STUD SPECIES.
2. JAMB STUDS SHALL MATCH SIZE & GRADE OF WALL STUDS U.N.O.
3. WHERE BEAM IS NOTED "UPSET", ALL JAMB STUDS NOTED WILL EXTEND TO DOUBLE TOP PLATE.
4. PROVIDE SQUASH BLOCKS AT TRUSSES & BLOCKING FRAMING WHERE JAMBS OR STUD PACKS ARE DISCONT. QUANTITY TO MATCH JAMB OR STUD PACK ABOVE.
5. PROVIDE ½" PLYWOOD SPACER PLATES AT INTERIOR HEADERS CONSTRUCTED WITH 2x LUMBER.
6. AT CONTRACTOR'S OPTION, PROVIDE GLULAM IN LIEU OF PSL OF EQUAL OR GREATER STRENGTH.
7. REFER TO DETAILS 5A & 5B ON S0.02 FOR MULTI-PLY MEMBER CONNECTION REQUIREMENTS.
8. REFER TO 4/S0.02 FOR JACK STUD ATTACHMENT TO KING STUDS.

HANGER SCHEDULE

MEMBER TYPE/SIZE	CONNECTION TYPE	HANGER SIZE	NOTES
2x10 JOIST	FACE MOUNT TO WOOD LEDGER/RIMBOARD/BEAM	LUS28	TYPICAL @ CORRIDOR
2x10 JOIST	SKEWED FACE MOUNT TO WOOD LEDGER/RIMBOARD/BEAM	SUR/L210	TYPICAL @ CORRIDOR
2x10 JOIST	TOP MOUNT TO 2x NAILER ATOP STEEL BEAM	JB210A	
(2) 2x10 JOIST	FACE MOUNT TO WOOD LEDGER/RIMBOARD/BEAM	LUS28-2	
(2) 2x10 JOIST	SKEWED FACE MOUNT TO WOOD LEDGER/RIMBOARD/BEAM	SUR/L210-2	
2x12 JOIST	FACE MOUNT TO WOOD LEDGER/RIMBOARD/BEAM	LUS210	TYPICAL @ BALCONY
2x12 JOIST	SKEWED FACE MOUNT TO WOOD LEDGER/RIMBOARD/BEAM	SUR/L210-2	TYPICAL @ BALCONY
18"Dp PRE-ENG FLOOR TRUSS	FACE MOUNT TO WOOD LEDGER	LUS410	
18"Dp PRE-ENG FLOOR TRUSS	TOP MOUNT TO 2x NAILER ATOP STEEL BEAM	THA426	

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

STUD BEARING WALL SCHEDULE - APARTMENTS ON SLAB-ON-GRADE

WALL TYPE	1st FLOOR WALLS (2nd FLOOR FRAMING)	2nd FLOOR WALLS (3rd FLOOR FRAMING)	3rd FLOOR WALLS (4th FLOOR FRAMING)	4th FLOOR WALLS (ROOF FRAMING)	NOTES
EXTERIOR WALL- TYPICAL	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	
EXTERIOR WALL-FLOOR BEARING	(2) 2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	
CORRIDOR WALL-TYPICAL	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	2x4 @ 16"oc	
CORRIDOR WALL-APARTMENT FLOOR BEARING	(2) 2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	(3) 2x4 @ 16"oc	(2) 2x4 @ 16"oc	2x4 @ 16"oc	
UNIT PARTITION WALL- TYPICAL	(2) 2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	
UNIT PARTITION WALL-UNITS D3, D4, D5	(2) 2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	
UNIT DEMISING WALL-TYPICAL	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	2x4 @ 16"oc	
UNIT DEMISING WALL-UNITS D3 & E3	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	(2) 2x4 @ 16"oc	2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	2x4 @ 16"oc	
STAIR WALL- TYPICAL	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc	2x6 @ 16"oc	
EXTERIOR STAIR WALL	(2) 2x6 @ 16"oc	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc	

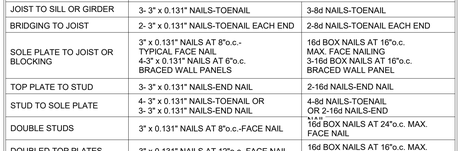
STUD BEARING WALL SCHEDULE - APARTMENTS ON PODIUM

WALL TYPE	2nd FLOOR WALLS (3rd FLOOR FRAMING)	3rd FLOOR WALLS (4th FLOOR FRAMING)	4th FLOOR WALLS (5th FLOOR FRAMING)	5th FLOOR WALLS (ROOF FRAMING)	NOTES
EXTERIOR WALL- TYPICAL	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	
EXTERIOR WALL-FLOOR BEARING	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	
CORRIDOR WALL-TYPICAL	(2) 2x4 @ 16"oc	2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	2x4 @ 16"oc	
CORRIDOR WALL-APARTMENT FLOOR BEARING	(3) 2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	(3) 2x4 @ 16"oc	(2) 2x4 @ 16"oc	2x4 @ 16"oc	
UNIT PARTITION WALL- TYPICAL	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	
UNIT PARTITION WALL-UNITS D3, D4, D5	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc	2x6 @ 16"oc	2x6 @ 16"oc	
UNIT DEMISING WALL-TYPICAL	(2) 2x4 @ 16"oc	2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	2x4 @ 16"oc	
UNIT DEMISING WALL-UNITS D3 & E3	(2) 2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	(2) 2x4 @ 16"oc	2x4 @ 16"oc w/ ADDT'L 2x4 @ 32"oc	2x4 @ 16"oc	
STAIR WALL- TYPICAL	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc	2x6 @ 16"oc	
EXTERIOR STAIR WALL	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc w/ ADDT'L 2x6 @ 32"oc	2x6 @ 16"oc	

NOTES:
1. REFER TO GENERAL NOTE "11.B" FOR STUD SPECIES.
2. REFER TO 3/S0.02 FOR NAILING OF MULTIPLE STUDS IN A WALL STUD PACK.
3. PROVIDE 2x BLOCKING AT MID-HEIGHT (5'-0" MAX) BETWEEN STUDS AT LOAD-BEARING WALLS SHEATHED ON SINGLE SIDE ONLY.
4. PROVIDE 2x BLOCKING AT MID-HEIGHT (5'-0" MAX) BETWEEN STUDS AT LOAD-BEARING WALLS FRAMED WITH 2x8 STUDS OR LARGER.
5. UNIT PARTITION WALLS ARE THE LOAD-BEARING WALLS OCCURRING WITHIN A UNIT (BETWEEN DEMISING WALLS).
6. UNIT DEMISING WALLS ARE THE LOAD-BEARING WALLS SEPARATING ONE UNIT FROM ANOTHER.
7. REFER TO FRAMING PLANS AND ARCHITECTURAL DRAWINGS FOR LEVEL(S) AT WHICH WALLS OCCUR.
8. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR LOCATIONS OF FURRED OUT WALLS TO ACCOMODATE PLUMBING OR OTHER MEP ITEMS.
9. WHERE SCHEDULE LISTS DIFFERENT WALL SIZES WITH AN "OR", REFER TO ARCHITECTURAL DRAWING LOCATIONS ALONG WALL TYPE WHERE EACH SIZE IS TO BE USED.

PLAN NOTES

A	18"Dp PRE-ENGINEERED FLOOR TRUSSES @ 24"oc	L	(2) 2x4 @ 16"oc WALL STUDS FOR EXTENTS OF DOOR RECESS
A1	18"Dp PRE-ENGINEERED FLOOR TRUSSES @ 16"oc		
B	PRE-ENGINEERED ROOF TRUSSES @ 24"oc		
C	(2) 2x10 HEADER W/HUC210-2 HANGER EACH END TO (2) 2x4 KING STUDS (RE: 9X/S3.40)		
D1	7"x7" PSL COLUMN w/ ABU7-7Z POST BASE (GROUT SOLID w/ 6,000psi MIN NON-SHRINK GROUT) & CCQ7.1-7.1SDS2.5 POST CAP		
D2	5 1/4"x7" PSL COLUMN CCQ7.1-6SDS2.5 POST CAP TOP & BOTT TO BEAMS ABOVE & BEYOND		
E	UPSET (4) 1 3/4"x18" LVL BEAM CONTINUOUS w/ (4) 2x6 KING STUDS EA END		
F	UPSET (3) 1 3/4"x14" LVL BEAM w/ (2) KING STUDS EA END U.N.O. PROVIDE H2.5A HOLDOWN @ EA END OF BEAM TO JAMB		
G	UPSET 6 3/4"x18"x21'-6"Lg 24F-V8 GLULAM OUTRIGGER. COPE AT EXTERIOR TRANSITION TO MATCH B/DECK SLOPE		
H	SIMPSON HHGUS.50-SDS (H=18") HANGER		
H1	SIMPSON HHUSS.50/10 HANGER		
H2	SIMPSON HGU5.50-SDS (H=18") HANGER		
H3	STEEL BUCKET PER 8/S3.20		
J	UPSET (3) 1 3/4"x18" LVL BEAM		
K	(2) 2x12 HEADER w/ (2) JACK & (1) KING STUD EA END		



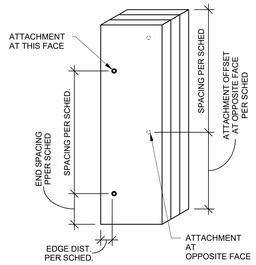
TYPICAL NOTES FOR BEARING WALLS
1. HOLES SHALL NOT BE LOCATED IN THE SAME STUD AS A CUT OR NOTCH
2. CONTACT ARCHITECT PRIOR TO CUTTING OR NOTCHING TO VERIFY SIZE AND LOCATION IF HOLE IS GREATER THAN 20% STUD WIDTH OR NOTCHES GREATER THAN 10% STUD WIDTH ARE REQUIRED IN TWO OR MORE CONSECUTIVE STUDS
3. NOTCHES OR HOLES NOT PERMITTED IN JAMBS, STUD PACKS AND AT ENDS OF SHEARWALLS
4. STUD SHOES ARE NOTE AN ACCEPTABLE REMEDIATION OF OVER-NOTCHED OR OVER-CUT STUDS WITHOUT PRIOR APPROVAL BY EOR

ALLOWABLE HOLES/NOTCHES IN WALL STUDS

1 DETAIL 3/4" = 1'-0"

NOTE:
1. CONTACT ARCHITECT PRIOR TO CUTTING JOISTS TO VERIFY SIZE AND LOCATION
2. DETAIL APPLIES TO 2x FRAMING ONLY. REFER TO ENGINEERED OR COMPOSITE LUMBER MANUFACTURER'S RECOMMENDATIONS AT PSL's, LVL's, LSL's & GLULAM's

2 DETAIL 3/4" = 1'-0"



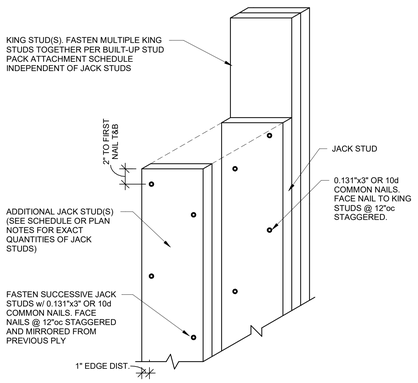
TYPICAL BUILT-UP STUD PACK CONNECTION

3 DETAIL 1 1/2" = 1'-0"

BUILT-UP STUD PACK COLUMN ATTACHMENT SCHEDULE

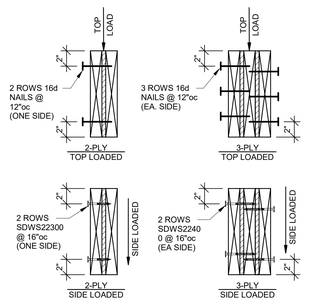
NUMBER OF PLIES	ATTACHMENT AT JAMB STUD PACKS[4]	ATTACHMENT AT WALL STUD PACKS[5]
2-PLY MEMBERS	8d NAILS AT 12"oc, 1" FROM EDGE, w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST NAIL 2" FROM EA. END	8d NAILS AT 12"oc, 1" FROM EDGE, w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST NAIL 2" FROM EA. END
3-PLY MEMBERS	20d NAILS AT 16"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 8", @ 16"oc w/ FIRST NAIL 4" FROM EA. END	8d NAILS AT 12"oc, 1" FROM EDGE, w/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST NAIL 2" FROM EA. END
4-PLY MEMBERS	SDWS22500 SCREWS AT 16"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 8", @ 16"oc w/ FIRST SCREW 4" FROM EA. END	3 PLIES ATTACHED PER 3-PLY ATTACHMENT w/ 4th PLY ATTACHED w/ 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6"
5-PLY MEMBERS	SDWS22600 SCREWS AT 12"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST SCREW 4" FROM EA. END	3 PLIES ATTACHED PER 3-PLY ATTACHMENT w/ 4th & 5th PLY ATTACHED w/ 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6"
6-PLY MEMBERS	SDWS22800 SCREWS AT 12"oc, 1 1/2" FROM EDGE w/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc w/ FIRST SCREW 4" FROM EA. END	3 PLIES ATTACHED PER 3-PLY ATTACHMENT w/ 4th PLY ATTACHED w/ 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6" AND 5th AND 6th PLIES ATTACHED w/ SDWS22500 SCREWS @ 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROSS 6"oc w/ FIRST SCREW 4" FROM EA. END

NOTES:
1. ALL BUILT-UP STUD PACKS MUST ALIGN FLOOR-TO-FLOOR WITH SOLID BLOCKING (SQUASH BLOCKS) AT FLOOR CAVITIES.
2. EXTEND ALL STUD PACKS TO LOWEST LEVEL UNLESS NOTED OTHERWISE.
3. ALL NAILS ARE COMMON NAILS UNLESS NOTED OTHERWISE.
4. JAMB STUD PACKS ARE STUDS SUPPORTING STRUCTURAL MEMBERS SUCH AS BEAMS, HEADERS, GIRDER TRUSSES, ETC.
5. WALL STUD PACKS ARE REPETITIVE STUDS BETWEEN WALL PLATES AS SCHEDULED IN THE "STUD BEARING WALL SCHEDULE".



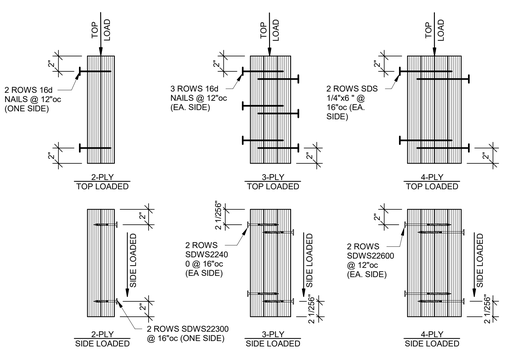
TYPICAL JACK STUD ATTACHMENT

4 DETAIL 1 1/2" = 1'-0"



TYPICAL MULTI-PLY HEADER CONNECTION

5A DETAIL 1 1/2" = 1'-0"



TYPICAL MULTI-PLY BEAM CONNECTION

5B DETAIL 1 1/2" = 1'-0"

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
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SHEET TITLE

WOOD SCHEDULES & TYPICAL DETAILS

SHEET NUMBER

S0.02

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SHEARWALL SCHEDULE

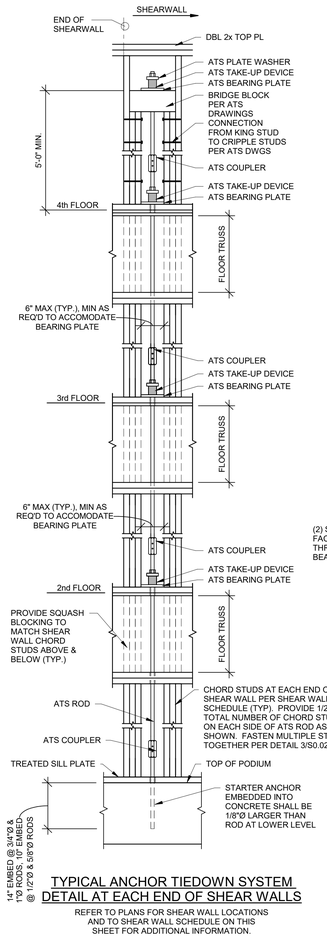
SHEARWALL TYPE		FLOOR					SILL PL CONNECTION	NOTES
		1ST FLOOR WALLS (100'-0")	2ND FLOOR WALLS (115'-10 1/2")	3RD FLOOR WALLS (126'-7 7/8")	4TH FLOOR WALLS (137'-3 3/4")	5TH FLOOR WALLS (147'-11 5/8")		
SW1-3B	MATERIAL & THICKNESS		7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED			
	NAIL SIZE & SPACING		8d NAILS 4/12	8d NAILS 6/12	8d NAILS 6/12			
	SHEAR FORCE		532 plf	364 plf	364 plf			
SW1-4A	MATERIAL & THICKNESS	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED			--
	NAIL SIZE & SPACING	8d NAILS 4/12	8d NAILS 4/12	8d NAILS 6/12	8d NAILS 6/12			
	SHEAR FORCE	532 plf	532 plf	364 plf	364 plf			
SW1-4B	MATERIAL & THICKNESS		7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED		--
	NAIL SIZE & SPACING		8d NAILS 4/12	8d NAILS 4/12	8d NAILS 6/12	8d NAILS 6/12		
	SHEAR FORCE		532 plf	532 plf	364 plf	364 plf		
SW2-3B	MATERIAL & THICKNESS		7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED			--
	NAIL SIZE & SPACING		8d NAILS 4/12	8d NAILS 6/12	8d NAILS 6/12			
	SHEAR FORCE		532 plf	364 plf	364 plf			
SW2-4A	MATERIAL & THICKNESS	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED			--
	NAIL SIZE & SPACING	8d NAILS 4/12	8d NAILS 6/12	8d NAILS 6/12	6d NAILS @ 4/4			
	SHEAR FORCE	532 plf	364 plf	364 plf	175 plf			
SW2-4B	MATERIAL & THICKNESS		7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED		--
	NAIL SIZE & SPACING		8d NAILS 4/12	8d NAILS 6/12	8d NAILS 6/12	6d NAILS @ 4/4		
	SHEAR FORCE		532 plf	364 plf	364 plf	175 plf		
SW3-3B	MATERIAL & THICKNESS		7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED	5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES UNBLOCKED			--
	NAIL SIZE & SPACING		8d NAILS 6/12	6d NAILS @ 4/4	6d NAILS @ 7/7			
	SHEAR FORCE		364 plf	175 plf	115 plf			
SW3-4A	MATERIAL & THICKNESS	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED	5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES UNBLOCKED			--
	NAIL SIZE & SPACING	8d NAILS 6/12	8d NAILS 6/12	6d NAILS @ 4/4	6d NAILS @ 7/7			
	SHEAR FORCE	364 plf	364 plf	175 plf	115 plf			
SW3-4B	MATERIAL & THICKNESS		7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	7/16" OSB SHEATHING ONE SIDE, w/ EDGES BLOCKED	5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED	5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES UNBLOCKED		--
	NAIL SIZE & SPACING		8d NAILS 6/12	8d NAILS 6/12	6d NAILS @ 4/4	6d NAILS @ 7/7		
	SHEAR FORCE		364 plf	364 plf	175 plf	115 plf		
SW4-4A	MATERIAL & THICKNESS	(2) 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED	(2) 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED	(2) 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED	(2) 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED			--
	NAIL SIZE & SPACING	BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7	BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7	BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7	BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7			
	SHEAR FORCE	250 plf	250 plf	250 plf	250 plf			
SW4-4B	MATERIAL & THICKNESS		(2) 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED	(2) 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED	(2) 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED	(2) 5/8" GYPSUM SHEATHING ONE SIDE, w/ EDGES BLOCKED		--
	NAIL SIZE & SPACING		BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7	BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7	BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7	BASE PLY: 6d COOLER NAILS @ 9/9 FACE PLY: 8d COOLER NAILS @ 7/7		
	SHEAR FORCE		250 plf	250 plf	250 plf	250 plf		

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. PROVIDE 2 WALL STUDS AT EACH HOLDOWN UNLESS NOTED OTHERWISE IN SCHEDULE.
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) AND WOOD (RIM BOARD) TO TOP PLATES SHALL BE 16d NAILS AT 12"oc UNLESS NOTED OTHERWISE IN SCHEDULE.
7. TYPICAL SILL PLATE TO CONCRETE SHALL BE 1/2"Ø x6" 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.
9. OSB @ INTERIOR WALL SHALL BE IN ADDITION TO 5/8" GYP SHEATHING.
10. SHEARWALL SHEATHING CALLED OUT AT CORRIDOR WALLS SHALL BE LOCATED AT UNIT SIDE OF WALL.
11. REFER TO NOTE 10.T ON S0.01 FOR FIRE RETARDANT TREATED SHEATHING REQUIREMENTS.

HOLDOWN SCHEDULE

MARK	FLOOR LEVEL (W/ APPLICABLE HOLDOWN TYPE PER FLOOR)				
	1ST FLOOR WALLS (100'-0")	2ND FLOOR WALLS (115'-10 1/2")	3RD FLOOR WALLS (126'-7 7/8")	4TH FLOOR WALLS (137'-3 3/4")	5TH FLOOR WALLS (147'-11 5/8")
A2		3/4"Ø STANDARD THREADED ROD w/ (6) 2x4 OR (4) 2x6			
A32		3/4"Ø STANDARD THREADED ROD w/ (6) 2x4 OR (4) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	
A41	3/4"Ø STANDARD THREADED ROD w/ (6) 2x4 OR (4) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	
A42		3/4"Ø STANDARD THREADED ROD w/ (6) 2x4 OR (4) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6
B32		1"Ø STANDARD THREADED ROD w/ (6) 2x4 OR (4) 2x6	3/4"Ø STANDARD THREADED ROD w/ (6) 2x4 OR (4) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	
B41	1"Ø STANDARD THREADED ROD w/ (6) 2x4 OR (4) 2x6	3/4"Ø STANDARD THREADED ROD w/ (6) 2x4 OR (4) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	
B42		1"Ø STANDARD THREADED ROD w/ (6) 2x4 OR (4) 2x6	3/4"Ø STANDARD THREADED ROD w/ (6) 2x4 OR (4) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6	5/8"Ø STANDARD THREADED ROD w/ (4) 2x4 OR (2) 2x6

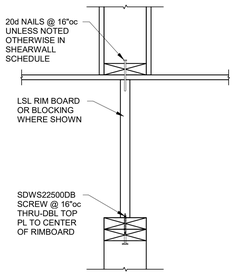
NOTES:
1. HOLDOWN TYPES ARE BASED UPON CONTINUOUS THREADED RODS UTILIZING THE SIMPSON ATS SYSTEM.
2. 1/2"Ø RODS SHALL HAVE A MINIMUM TENSILE CAPACITY OF 4,270 LBS.
3. 5/8"Ø RODS SHALL HAVE A MINIMUM TENSILE CAPACITY OF 6,675 LBS.
4. 3/4"Ø RODS SHALL HAVE A MINIMUM TENSILE CAPACITY OF 9,610 LBS.
5. 1"Ø RODS SHALL HAVE A MINIMUM TENSILE CAPACITY OF 17,080 LBS.
6. REFER TO SECTION DETAILS ON S0.03 FOR TYPICAL HOLDOWN DETAILS.
7. ALL HOLDOWN TO HAVE HALF OF THE LISTED REQ'D STUDS EA SIDE OF THREADED ROD TO MATCH STUD SIZE & GRADE NOTED IN WALL SCHEDULE. HOLDOWN STUDS ARE IN ADDITION TO BEARING WALL OR HEADER JAMB STUDS - PROVIDE ADDITIONAL STUDS AS REQ'D TO MEET QUANTITY NOTED IN SCHED. OFFSET STUD PACK 3" TYPICAL FROM CENTERLINE OF THREADED ROD. PROVIDE SQUASH BLOCKS WITHIN FLOOR PLATE DEPTH (TRUSS DEPTH) ALIGNED WITH STUD PACKS. QUANITY OF SQUASH BLOCK TO MATCH QUANITY OF STUDS BELOW.
8. PROVIDE SIMPSON ATS-SBC WELDED TO STEEL WIDE-FLANGE (PRIOR TO POURING CONCRETE).
9. PROVIDE PLATE WASHER AND NUT CAPABLE OF DEVELOPING CAPACITY OF ROD AT EACH FLOOR.
10. PROVIDE TAKE-UP DEVISE AT EACH FLOOR CAPABLE OF ACCOMODATING THE SHRINKAGE INDICATED IN DETAIL 1/S0.06. PROVIDE COUPLING TAKE-UP DEVISE AS REQUIRED.
12. PROVIDE SHOP DRAWINGS SHOWING LOCATIONS OFF ALL HOLD-DOWNS AND HARDWARE FOR REVIEW BY THE EOR PRIOR TO INSTALLATION.
13. THE HOLE THRU THE TOP AND SILL PLATES SHALL BE EQUAL TO THE ROD DIAMETER PLUS 1/4".



TYPICAL ANCHOR TIEDOWN SYSTEM DETAIL AT EACH END OF SHEAR WALLS

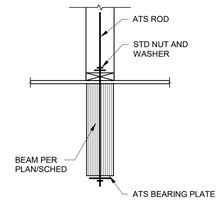
REFER TO PLANS FOR SHEAR WALL LOCATIONS AND TO SHEAR WALL SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

1 DETAIL 3/4" = 1'-0"



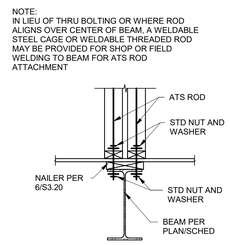
TYPICAL SHEARWALL WALL PL ATTACHMENT AT TO RIMBOARD

2 SECTION 1 1/2" = 1'-0"



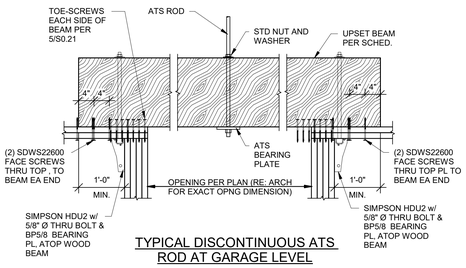
TYPICAL HOLDOWN ATOP WOOD BM

3 SECTION 1" = 1'-0"



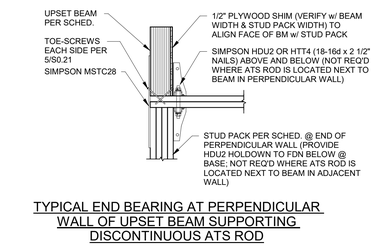
TYPICAL HOLDOWN ATOP STEEL BEAM

4 SECTION 1" = 1'-0"



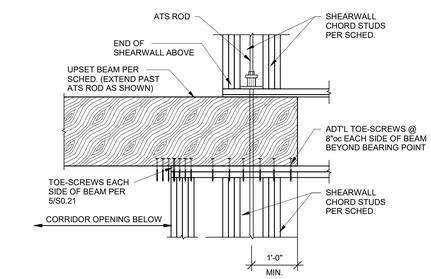
TYPICAL DISCONTINUOUS ATS ROD AT GARAGE LEVEL

5 SECTION 3/4" = 1'-0"



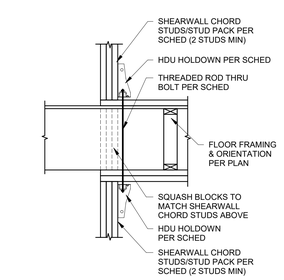
TYPICAL END BEARING AT PERPENDICULAR WALL OF UPSET BEAM SUPPORTING DISCONTINUOUS ATS ROD

6 SECTION 3/4" = 1'-0"



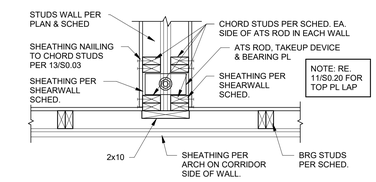
TYPICAL UPSET BEAM NEAR END OF SHEARWALL

7 SECTION 3/4" = 1'-0"



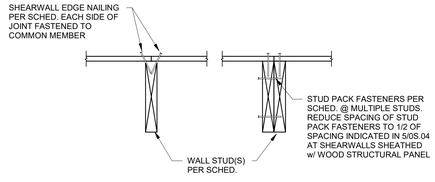
TYPICAL HDU FLOOR TO FLOOR HOLDOWN

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



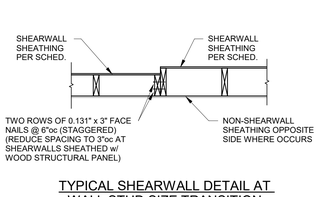
TYPICAL ATS ROD IN CENTER OF UNIT DEMISING WALL

10 SECTION 1" = 1'-0"



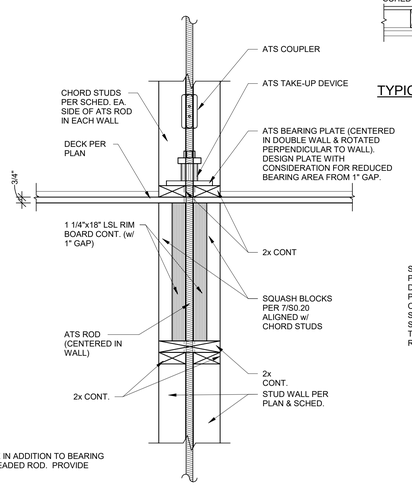
TYPICAL SHEARWALL SHEATHING JOINT

11 SECTION 1 1/2" = 1'-0"



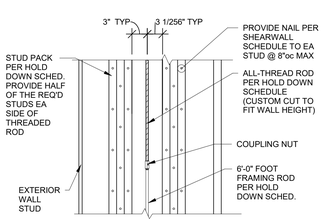
TYPICAL SHEARWALL DETAIL AT WALL STUD SIZE TRANSITION

12 SECTION 3/4" = 1'-0"



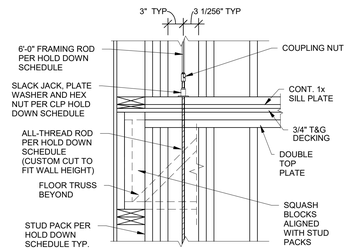
TYPICAL SINGLE ATS ROD AT DOUBLE SHEARWALLS

9 SECTION 1 1/2" = 1'-0"



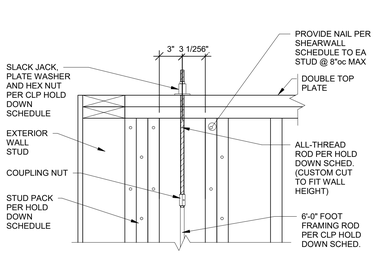
TYPICAL SHEARWALL SHEATHING JOINT

13 SECTION 1" = 1'-0"



TYPICAL SHEARWALL SHEATHING JOINT

14 SECTION 1" = 1'-0"



TYPICAL SHEARWALL SHEATHING JOINT

15 SECTION 1 1/2" = 1'-0"

C:\Users\CAB\Documents\FW12101 - S21 - Paragon Star_cbeverlin\P0\V3B.rvt

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
816.531.4144
4338 Belleview Ave.
Kansas City, MO 64111
www.bdc-engrs.com

SHEET TITLE

WOOD SCHEDULES & TYPICAL DETAILS

SHEET NUMBER

S0.03

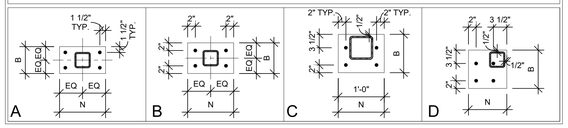
COLUMN BASE PLATE SCHEDULE

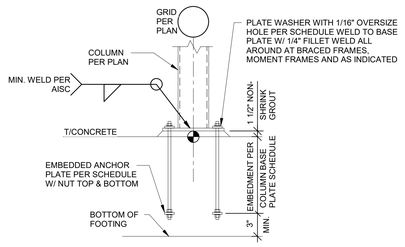
TYPE	COLUMN	BASE PLATE (txBxN)	SHAPE	ANCHOR RODS	EMBEDMENT
1	PER PLAN	3/4"x7"x12"	A	(4) 3/4" DIA.	12"
2	PER PLAN	3/4"x8"x12" EMED	B	(4) 3/4" DIA. HEADED STUDS	12"
3	PER PLAN	3/4"x10"x12" EMBED	C	(4) 3/4" DIA. HEADED STUDS	12"
4	PER PLAN	3/4"x10"x10" EMBED	D	(4) 3/4" DIA. HEADED STUDS	12"

NOTES:

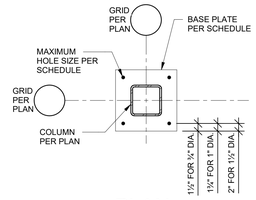
1. SEE PLAN FOR ORIENTATION OF COLUMNS.
2. PROVIDE PLATE WASHER & EMBEDDED PLATE PER SCHEDULE @ ALL ANCHOR BOLTS.
3. U.N.O. ALL THREADED ROD A.B's SHALL BE F1554 (36ksi) MATERIAL.

BASE PLATE SHAPE (NOT TO SCALE)





ELEVATION



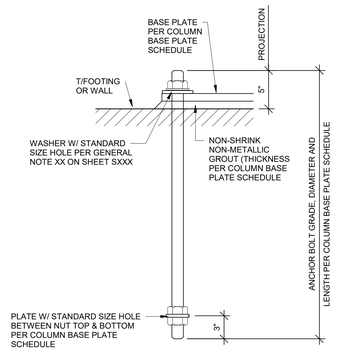
PLAN

COLUMN BASE PLATE AND ANCHOR-ROD CRITERIA

ANCHOR-ROD DIAMETER.	MAX. BASE PLATE HOLE DIAMETER.	MIN. PLATE WASHER SIZE.	MIN. PLATE WASHER THICKNESS	EMBEDDED ANCHOR PLATE SIZE
3/4"	1 5/16"	2"	1/4"	1/2"x2 1/2"x2 1/2"
7/8"	1 9/16"	2 1/2"	5/16"	1/2"x2 1/2"x2 1/2"
1"	1 7/8"	3"	3/8"	5/8"x3"x3"
1 1/4"	2 1/8"	3 1/2"	1/2"	5/8"x3 1/2"x3 1/2"
1 1/2"	2 3/8"	4"	1/2"	5/8"x3 1/2"x3 1/2"
1 3/4"	2 7/8"	4 1/2"	5/8"	3/4"x3 1/2"x3 1/2"
2"	3 1/4"	5"	3/4"	3/4"x3 1/2"x3 1/2"
2 1/2"	3 3/4"	5 1/2"	7/8"	3/4"x3 1/2"x3 1/2"

NOTES:

1. HOLE SIZES PROVIDED ARE BASED ON ANCHOR ROD SIZE AND CORRELEATE WITH ACI 117 (ACI, 2010)
2. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.
3. HOLE IN PLATE WASHER SHALL BE 1/16" LARGER THAN ANCHOR DIAMETER.



1 TYPICAL ANCHOR BOLT

1 1/2" = 1'-0"

paragon star

PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
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REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
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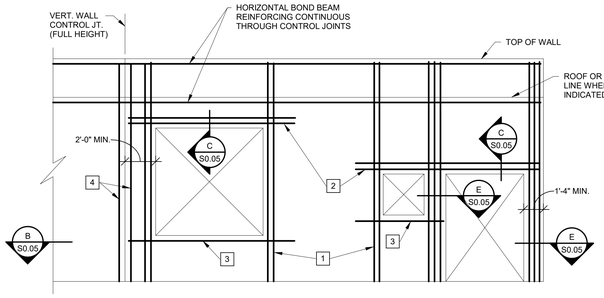
SHEET TITLE

STEEL SCHEDULES

SHEET NUMBER

S0.04



TYPICAL CMU WALL REINFORCING AT OPENINGS

LEGEND:

1. FULL HEIGHT VERTICAL BARS AS JAMB REINFORCING IN FIRST 2 CELLS ADJACENT TO OPENING. REINFORCE EACH CELL WITH SIZE & QUANTITY OF BAR TO MATCH WALL REINFORCING (1 BAR TYPICAL IN 8" WALLS AND 2 BARS TYPICAL IN 12" WALLS).
2. LINTEL REINFORCING PER SECTION C. EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
3. 2-#5 CONTINUOUS HORIZONTAL BARS AS SILL REINFORCING IN 8" COURSE BELOW OPENING (U.N.O.). EXTEND 2'-0" PAST EDGE OF OPENING ON EACH SIDE (TYPICAL).
4. FULL HEIGHT VERTICAL BARS PER MASONRY VERTICAL REINFORCING SCHEDULE LOCATED IN END CELL AT EACH SIDE OF VERTICAL WALL CONTROL JOINTS.

GENERAL CRITERIA: (SECTION A CONTINUED):

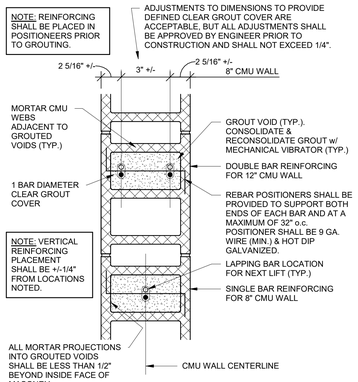
1. VERTICAL REINFORCING BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.
2. CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED ON REINFORCING STEEL SHOP DRAWING ELEVATIONS.
3. VERTICAL CONTROL JOINTS IN MASONRY WALLS SHALL BE 3/8" WIDE, FULL HEIGHT OF WALL. JOINTS SHALL BE SPACED AT A MAXIMUM OF 24'-0" ON CENTER AND NOT LESS THAN 2'-0" FROM THE EDGE OF ANY OPENING. ALL HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS. ALL BOND BEAM HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. CONTRACTOR SHALL COORDINATE AND VERIFY ALL CONTROL JOINT LOCATIONS.

MASONRY VERTICAL REINFORCING SCHEDULE
FOR LOAD BEARING MASONRY (CMU) WALLS

WALL THICKNESS	LOCATION	VERTICAL REINF. (IN GROUTED CELLS)	SPACING
8"	GARAGE ATOP PRECAST	1- #5	48"oc
8"	EXT WALLS BELOW PODIUM	1- #5	32"oc
8"	ELEVATOR	1- #5	32"oc

NOTES:
1. IN ADDITION TO SPACING SHOWN IN SCHEDULE, VERTICAL REINFORCING SHALL BE PROVIDED IN GROUTED CELLS AT THE FOLLOWING LOCATIONS
   - A.) IN THE FIRST 2 CELLS ADJACENT TO EACH OPENING
   - B.) IN THE END CELLS ON EACH SIDE OF VERTICAL CONTROL JOINTS
   - C.) IN THE END CELLS OF EACH LENGTH OF WALL
   - D.) AT EACH CORNER OF WALLS
2. ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.

A CMU WALL ELEVATION
1 1/2" = 1'-0"



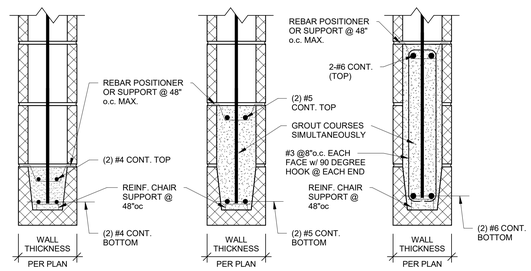
NOTE: ALL MASONRY VOIDS AND BOND BEAMS TO BE GROUTED SHALL BE FREE OF DEBRIS AND MORTAR DROPPINGS PRIOR TO GROUTING. ANY MASONRY w/ DROPPINGS OR DEBRIS OBSERVED IN VOIDS SHALL BE REJECTED.

TYPICAL REBAR POSITIONING DETAIL

B SECTION
1 1/2" = 1'-0"

TYPICAL MASONRY REINFORCING NOTE:

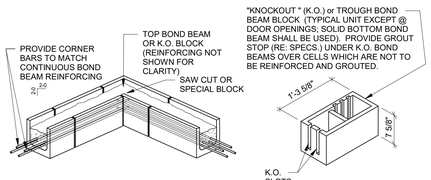
ALL INTERIOR & EXTERIOR MASONRY WALLS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE TO BE REINFORCED HORIZONTALLY WITH BOND BEAMS (2 - #5 BOTTOM) AT BOTTOM COURSE, TOP COURSE, JOIST BEARING ELEVATION AND AT 5'-0" MAXIMUM O.C. AND VERTICALLY AS INDICATED ON DRAWINGS. THESE WALLS ARE TO BE ANCHORED TOP AND BOTTOM TO THE FOUNDATION, FLOOR, OR ROOF PER TYPICAL DETAILS. THE VERTICAL REINFORCING IS CONTINUOUS (IN 6'-6" MAXIMUM LENGTHS, LAPPED 2'-6" MINIMUM). FILL BLOCK CELLS AND BOND BEAMS WITH 2,500psi GROUT. RE: DETAILS "A" THROUGH "E" ON THIS SHEET.



OPENINGS UP TO 4'-0" | OPENINGS 4'-0" TO 7'-4" | OPENINGS 7'-4" TO 12'-0"

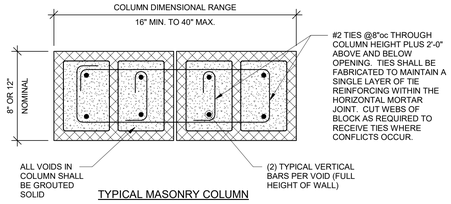
TYPICAL LINTELS AT ALL CMU WALLS (U.N.O.)

C SECTION
1 1/2" = 1'-0"



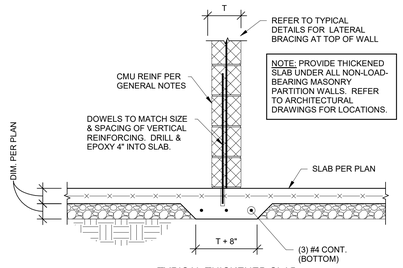
TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL

D DETAIL
3/4" = 1'-0"



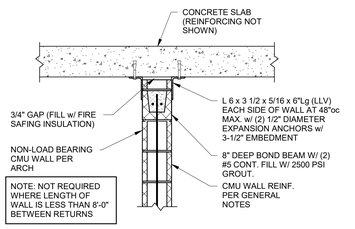
TYPICAL MASONRY COLUMN

E SECTION
1 1/2" = 1'-0"



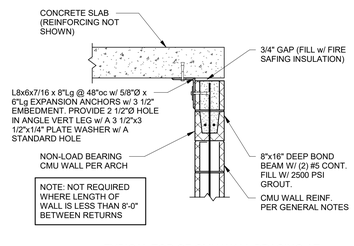
TYPICAL THICKENED SLAB
(UNDER NON-LOAD-BEARING MASONRY)

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



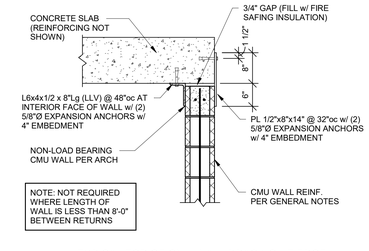
TYPICAL TOP OF CMU WALL BRACING
BELOW CONCRETE SLAB

2 SECTION
3/4" = 1'-0"



TYPICAL TOP OF CMU WALL BRACING AT
EDGE ON CONCRETE SLAB @ INTERIOR WALL

2B SECTION
3/4" = 1'-0"



TYPICAL TOP OF CMU WALL BRACING AT EDGE
OF CONCRETE SLAB @ EXTERIOR WALL

2C SECTION
3/4" = 1'-0"

NOT USED

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

NOT USED

3A SECTION
3/4" = 1'-0"

C:\Users\CABDocuments\FW12101 - S21 - Paragon Star_cbexwellnPSV3B.rvt

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
4
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

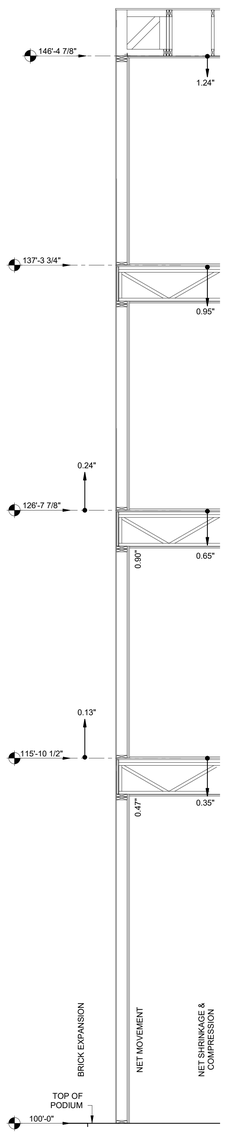
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Belleview Ave.
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

SHEET TITLE

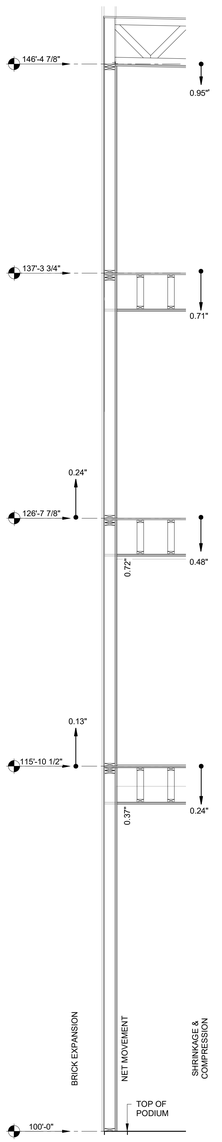
CMU DETAILS

SHEET NUMBER

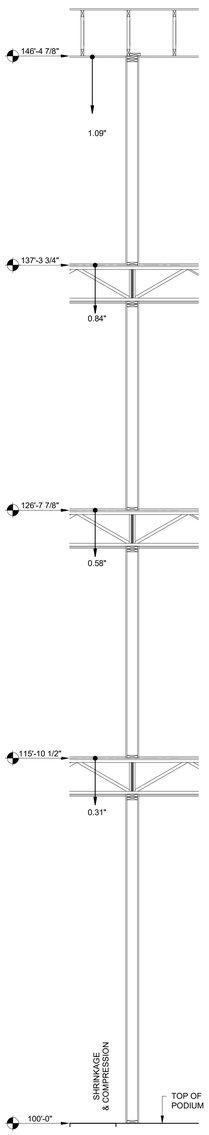
S0.05



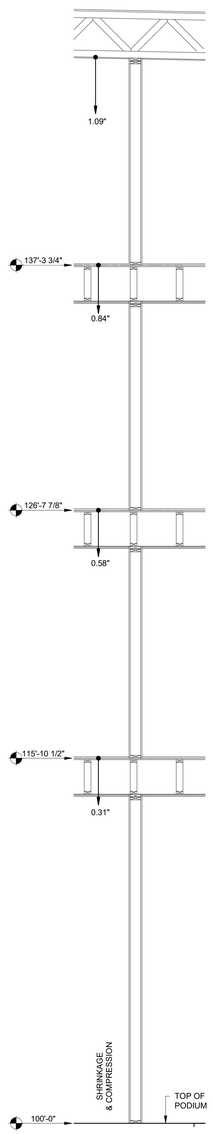
1 **EXTERIOR LOAD BEARING**
3/8" = 1'-0"



2 **EXTERIOR NON-LOAD BEARING**
3/8" = 1'-0"



3 **INTERIOR LOAD BEARING**
3/8" = 1'-0"



4 **INTERIOR NON-LOAD BEARING**
3/8" = 1'-0"

Wood Shrinkage Notes:

Bob D. Campbell & Company takes no responsibility for the naturally-occurring shrinkage that will occur in a wood structure or the impact the movement will have on the architectural, mechanical, electrical and plumbing systems that are designed by others. The analysis provided below are estimated values in accordance with IBC Section 2304.3.3 and indicate the systems and/or routing of the systems shall be designed to accommodate the movement. Failure to follow the considerations below can result in a failure of the impacted components within the system.

Estimated values are based on the following moisture content in the framing
a. At install (MC) = 19%
b. At equilibrium (EMC) = 8%

Reference wall sections on this sheet for estimated cumilative values per floor.

The following is a list of recommendations to minimize potential issues related to wood shrinkage and veneer expansion. Veneer expansion is seasonable and variable depending on sun exposure. The majority of wood shrinkage will occur in the first 24 months of occupancy with minor seasonal variations.

1. MEP System Considerations
   a. Postpone MEP installation as long as possible to allow as much dead load to be applied--allowing construction gaps to close.
   b. Provide oversized and vertically slotted holes at pipe horizontal penetration and notches. Refer to typical notching and cutting of stud wall detail for additional considerations on size limitations.
   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 adjusted prior to completion of construction or closing of wall/ceiling assembly.
   e. Horizontal vent penetrations through exterior veneers shall be provided with double flashing.
   f. All sheet metal vertical down spouts shall have intermediate slip joints.
   g. Roof drains shall utilize adjustable fittings that are adjusted back to the roof finish sheathing elevation at the completion of construction and then shall be adjusted as required to maintain proper drainage.
2. Architectural System Considerations
   a. At stucco, EIFS and thin set veneer systems provide horizontal expansion joints, slip joints with appropriate flashing, this includes transitions between changes in veneer material.
   b. At brick and stone veneers provide veneers ties designed 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.
   d. Around rigid (concrete/CMU) stair and elevator towers and at fire seperation walls provide adjustable thresholds or transitions.
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 expannsion.
   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.
   e. Delay placement of gyp topping around rigid (concrete/CMU) stair and elevator towers until completing of construction.
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 at changes in materials. Caulked as needed as shrinkage occurs and original joint fails.
   c. Remedial self-leveling work may be required around concrete or CMU stair and elevator towers as needed as shrinkage occurs.

paragon star

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SHEET TITLE

WOOD SHRINKAGE & MOVEMENT

SHEET NUMBER

S0.06

BEAM SCHEDULES

MARK	SIZE b	SIZE d	SHAPE OR SECTION	QUANTITY	SIZE	TOTAL LENGTH	MK	TOP	PLACED	BOT.	REMARKS	STIRRUPS NO.	STIRRUPS SHAPE	STIRRUPS SPACING
B1	36"	36"		4	#8	32-0		●				#4		18 @ 4"oc RIGHT END RMDR @ 12"oc
				6	#8	12-0		●						
				6	#8	27-0				●				
B2	36"	36"		4	#8	34-0		●				#4		10 @ 4"oc, 12" @ 8"oc LEFT END RMDR @ 12"oc
				6	#8	12-0		●						
				6	#8	27-0				●				
B3	48"	36"		6	#8	32-0		●			PROJECT 4'-0" PAST GRID F.2	(2) #4		@ 10"oc
				8	#8	36-0				●	6" CLR FROM BOTT			
				12	#8	46-0				●				
B4	48"	36"		6	#8	40-0		●			PROJECT 4'-0" PAST 12" WALL	(2) #4		@ 10"oc
				12	#8	24-0		●						
				8	#8	14-0				●				
B5	36"	36"		4	#8	32-0		●			PROJECT 4'-0" PAST GRID F.2	#4		@ 10"oc
				4	#8	36-0				●	6" CLR FROM BOTT			
				10	#8	46-0				●				
B6	36"	36"		4	#8	40-0		●			PROJECT 4'-0" PAST 12" WALL	#4		@ 10"oc
				10	#8	24-0		●						
				6	#8	14-0				●				
B7	36"	32"		4	#8	42-0		●				#4		@ 12"oc
				2	#8	16-0		●						
				3	#8	22-0				●				
				5	#8	34-0				●				
B8	36"	32"		4	#8	42-0		●				#4		@ 12"oc
				2	#8	24-0				●				
				4	#8	36-0				●				
B9	36"	32"		3	#8	22-0		●				#4		@ 12"oc
				6	#8	16-0				●				
B10	36"	32"		4	#8	40-0		●				#4		12 @ 6"oc RIGHT END RMDR @ 12"oc
				4	#8	16-0		●						
				4	#8	22-0				●				
				8	#8	34-0				●				
B11	36"	32"		4	#8	42-0		●				#4		@ 12"oc
				4	#8	16-0		●						
				2	#8	22-0				●				
				4	#8	34-0				●				
B12	36"	32"		2	#8	18-0		●				#4		@ 8"oc
				2	#8	12-0				●				
				6	#8	16-0				●				
B13	36"	32"		6	#8	28-0		●				#4		@ 3"oc BTWN GRID 16.2 & GA RMDR @ 8"oc
				8	#8	26-0		●						
				2	#8	24-0				●				
				6	#8	27-0				●				
B14	48"	32"		12	#8	32-0		●			ALT HOOK DIRECTION	(2) #4		@ 12"oc
				12	#8	26-0				●	6" CLR FROM BOTT			
				18	#8	32-0				●	ALT HOOK DIRECTION			
B15	42"	32"		8	#8	32-0		●			ALT HOOK DIRECTION	#4		@ 8"oc
				8	#8	26-0				●	6" CLR FROM BOTT			
				14	#8	32-0				●	ALT HOOK DIRECTION			
B16 B16R	36"	40"		8	#8	40-0		●				#4		@4"oc AT CANTILEVER RMDR @12"oc
				4	#8	16-0		●						
				4	#5	25-0					1/2 EA FACE @ 10"oc FROM BOTT			
				6	#8	30-0				●				
B17 B17R	36"	40"		8	#8	36-0		●			1/2 AT EA COLUMN	#4		@ 12"oc
				2	#8	24-0		●						
				4	#5	42-0					1/2 EA FACE @ 10"oc FROM BOTT			
				4	#8	42-0				●				
				4	#8	48-0				●				
B18	36"	40"		4	#8	36-0		●				#4		@ 12"oc
				4	#8	18-0		●						
				4	#5	18-6					1/2 EA FACE @ 10"oc FROM BOTT			
				2	#8	20-0				●				
				4	#8	24-0				●				
B19	36"	40"		4	#8	24-0		●				#4		@ 12"oc
				4	#5	17-0					1/2 EA FACE @ 10"oc FROM BOTT			
				2	#8	17-0				●				
				4	#8	24-0				●				
B20	24"	40"		4	#8	40-0		●				#4		@ 12"oc
				4	#5	32-9					1/2 EA FACE @ 10"oc FROM BOTT			
				2	#8	32-0				●				
				6	#8	34-0				●	ALT HOOK DIRECTION			
B21	36"	40"		10	#8	36-0		●				#4		@ 12"oc
				2	#8	20-0				●				
				4	#5	21-0					1/2 EA FACE @ 10"oc FROM BOTT			
				4	#8	28-0				●				
B22	36"	40"		8	#8	38-0		●			1/2 AT EA COLUMN	#4		(20) @ 6"oc EA END RMDR @ 12"oc
				4	#5	40-0					1/2 EA FACE @ 10"oc FROM BOTT			
				6	#8	40-0				●				
				6	#8	46-0				●				
B23	36"	40"		10	#8	28-0		●				#4		@ 12"oc
				4	#5	12-0					1/2 EA FACE @ 10"oc FROM BOTT			
				2	#8	12-0				●				
				4	#8	16-0				●				
B24	36"	40"		2	#8	28-0		●				#4		@ 12"oc
				4	#5	19-0					1/2 EA FACE @ 10"oc FROM BOTT			
				2	#8	20-0				●				
				4	#8	24-0				●				
B25	36"	40"		4	#8	36-0		●				#4		@ 12"oc
				4	#5	19-6					1/2 EA FACE @ 10"oc FROM BOTT			
				2	#8	20-0				●				
				4	#8	24-0				●				
B26	36"	40"		8	#8	38-0		●			1/2 AT EA COLUMN	#4		@ 12"oc
				4	#5	40-0					1/2 EA FACE @ 10"oc FROM BOTT			
				4	#8	40-0				●				
				4	#8	46-0				●				
B27	36"	40"		6	#8	28-0		●				#4		@ 12"oc
				4	#5	12-0					1/2 EA FACE @ 10"oc FROM BOTT			
				2	#8	12-0				●				
				4	#8	16-0				●				
B28	36"	40"		2	#8	30-0		●				#4		(18) @ 4"oc RIGHT END RMDR @ 12"oc
				4	#5	24-0					1/2 EA FACE @ 10"oc FROM BOTT			
				4	#8	18-0				●				
				4	#8	28-0				●				
B29	36"	40"		4	#8	18-0		●				#4		(20) @ 4"oc LEFT END RMDR @12"oc
				4	#5						1/2 EA FACE @ 10"oc FROM BOTT			
				2	#8	12-0				●				
				4	#8	16-0				●				
B30	48"	40"		4	#8	36-0		●				(2) #4		12"oc AT CANTILEVER (10) @ 6"oc EA. END BTWN COLS RMDR @ 12"oc
				4	#8	36-0		●						
				4	#5	11-0					1/2 EA FACE @ 10"oc FROM BOTT			
				10	#8	26-0				●	6" CLR FROM BOTT			
				16	#8	36-0				●	ALT HOOK DIRECTION			
B31	48"	40"		8	#8	36-0		●			ALT HOOK DIRECTION	(2) #4		(10) @ 6"oc EA END RMDR @12"oc
				4	#5	35-0					1/2 EA FACE @ 10"oc FROM BOTT			
				10	#8	32-0				●	6" CLR FROM BOTT			
				16	#8	36-0				●	ALT HOOK DIRECTION			

PLACED key: ℄ OF SUPPORT; 1/4 PT. OF SPAN; FACE OF SUPPORT; 1/4 PT. OF ADJ. SPAN

BEAM SCHEDULES

MARK	SIZE b	SIZE d	SHAPE OR SECTION	QUANTITY	SIZE	TOTAL LENGTH	MK	TOP	PLACED	BOT.	REMARKS	STIRRUPS NO.	STIRRUPS SHAPE	STIRRUPS SPACING
B32	24"	36"		4	#7	26-0		●				#4		@ 12"oc
				2	#7	20-0				●				
				4	#7	22-0				●	ALT HOOK DIRECTION			
B33	24"	36"		4	#7	22-0		●			ALT HOOK DIRECTION	#4		@ 12"oc
				4	#7	20-0				●				
				4	#7	22-0				●	ALT HOOK DIRECTION			
B34	24"	36"		4	#7	29-0		●			ALT HOOK DIRECTION	#4		@ 12"oc
				4	#8	26-0				●				
				4	#8	27-0				●	ALT HOOK DIRECTION			

PLACED key: ℄ OF SUPPORT; 1/4 PT. OF SPAN; FACE OF SUPPORT; 1/4 PT. OF ADJ. SPAN

CONCRETE SHEARWALL SCHEDULE

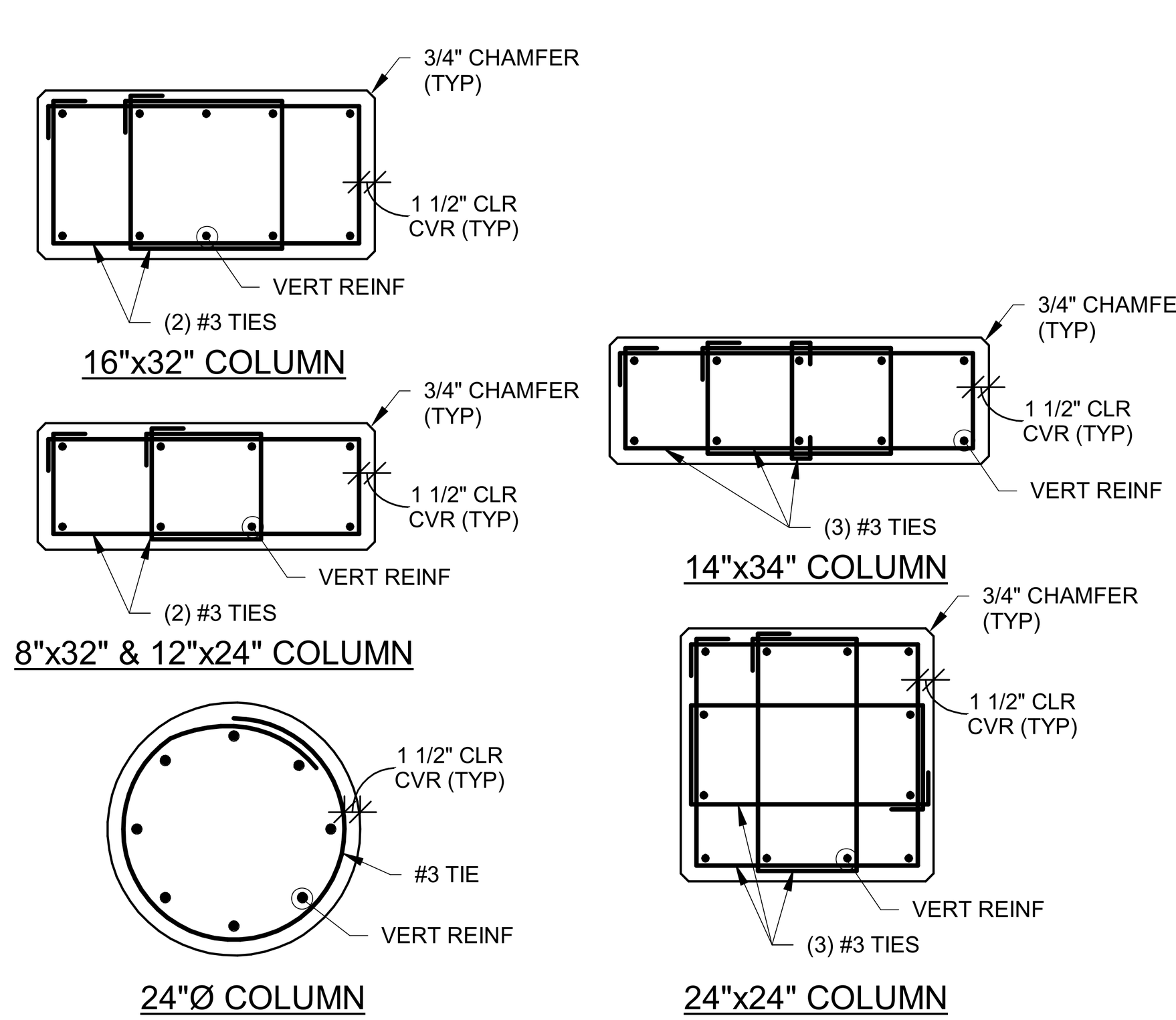
TYPE	THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT	COLUMN @ END OF WALL	LATERAL LOAD ALONG WALL FOR PILE DESIGN (klf)	UPLIFT AT EACH END OF WALL FOR PILE DESIGN (kips)
CSW1	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW2	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW3	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW4	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW5	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW6	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW7	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW8	12"	#5 @ 12"oc EA FACE	#6 @ 12"oc EA FACE	12"x24"		
CSW9	8"	#5 @ 12"oc EA FACE	#6 @ 12"oc EA FACE	12"x24"		
CSW10	12"	#5 @ 12"oc EA FACE	#6 @ 12"oc EA FACE	12"x24"		
CSW11	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW12	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW13	12"	#5 @ 12"oc EA FACE	#6 @ 12"oc EA FACE	12"x24"		
CSW14	12"	#5 @ 12"oc EA FACE	#6 @ 12"oc EA FACE	12"x24"		
CSW15	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW16	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW17	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW18	12"	#5 @ 12"oc EA FACE	#6 @ 12"oc EA FACE	12"x24"		
CSW19	12"	#5 @ 12"oc EA FACE	#6 @ 12"oc EA FACE	12"x24"		
CSW20	8"	#5 @ 12"oc CTR IN WALL	#5 @ 12"oc CTR IN WALL	8"x32"		
CSW21	12"	#5 @ 12"oc EA FACE	#6 @ 12"oc EA FACE	12"x24"		
CSW22	12"	#5 @ 12"oc EA FACE	#6 @ 12"oc EA FACE	12"x24"		
CSW23	12"	#5 @ 12"oc EA FACE	#6 @ 12"oc EA FACE	12"x24"		

NOTES:
1) PROVIDE (2)#7 CONT TOP AND BOTTOM OF EACH WALL WITHIN 4" OF THE TOP AND BOTTOM. SPLICE BOTTOM BARS 5'-0" AND TOP BARS 6'-0" WITH 90 DEG HOOKS AT DISTONT ENDS
2) VERTICAL FOUNDATION DOWELS TO MATCH VERTICAL WALL REINFORCEMENT SIZE AND SPACING WITH 48 BAR Ø LAP INTO WALL AND 90 DEG HOOK INTO BOTTOM OF FOOTING BELOW.
3) TERMINATE TOP OF VERTICAL BARS WITH 90 DEG HOOK INTO TOP OF SLAB WITH 3" OF CLEAR COVER.

CONCRETE COLUMN SCHEDULE

COLUMN SIZE	REINFORCEMENT	COLUMN SIZE	REINFORCEMENT
8X32	(8) #7 VERTICAL (2) #3 TIES @ 8"oc	16X32	(10) #8 VERTICAL (2) #3 TIES @ 16"oc
12X24	(8) #7 VERTICAL (2) #3 TIES @ 12"oc	24X24	(12) #8 VERTICAL (3) #3 TIES @ 16"oc
14X34	(10) #8 VERTICAL (3) #3 TIES @ 14"oc	24Ø	(10) #8 VERTICAL #3 TIES @ 12"oc

CONCRETE COLUMN NOTES:
1) PROVIDE (4) SETS OF TIES AT 3"oc TOP & BOTTOM OF EACH COLUMN
2) ALL COLUMNS TO CENTER ON GRIDLINE AND PIER/FOUNDATION U.N.O.
3) PROVIDE VERTICAL FOUNDATION DOWELS MATCH SIZE AND QUANITY OF VERTICAL REINFORCEMENT WITH 48 BAR Ø LAP INTO COLUMN AND 90 DEG HOOK INTO BOTTOM OF FOOTING.
4) PROVIDE VERTICAL SLAB DOWELS AT TOP OF COLUMN WITH 48 BAR Ø LAP INTO COLUMN AND 90 DEG HOOK INTO TOP OF SLAB ABOVE.



7 CONCRETE COLUMN DETAILS
3/4" = 1'-0"

REBAR DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE

CONCRETE STRENGTH = 5000 psi

CASE / BAR SIZE	DEVELOPMENT LENGTH OR CLASS A LAP: TOP BARS	DEVELOPMENT LENGTH OR CLASS A LAP: OTHER BARS	CLASS B LAP: TOP BARS	CLASS B LAP: OTHER BARS
#3	24	24	24	24
#4	24	24	29	24
#5	28	24	36	28
#6	34	26	43	34
#7	49	38	63	49
#8	56	43	72	56
#9	63	48	81	63
#10	71	54	92	70
#11	78	60	102	78

CONCRETE STRENGTH = 4000 psi

CASE / BAR SIZE	DEVELOPMENT LENGTH OR CLASS A LAP: TOP BARS	DEVELOPMENT LENGTH OR CLASS A LAP: OTHER BARS	CLASS B LAP: TOP BARS	CLASS B LAP: OTHER BARS
#3	24	24	24	24
#4	25	24	33	25
#5	31	24	41	31
#6	37	29	49	37
#7	54	42	71	54
#8	62	48	81	62
#9	70	54	91	70
#10	79	61	102	79
#11	87	67	113	87

CONCRETE STRENGTH = 3500 psi

CASE / BAR SIZE	DEVELOPMENT LENGTH OR CLASS A LAP: TOP BARS	DEVELOPMENT LENGTH OR CLASS A LAP: OTHER BARS	CLASS B LAP: TOP BARS	CLASS B LAP: OTHER BARS
#3	24	24	26	24
#4	27	24	35	27
#5	33	26	43	33
#6	40	31	52	40
#7	58	45	75	58
#8	66	51	86	66
#9	75	58	97	75
#10	84	65	109	84
#11	93	72	121	93

NOTES:
1. UNLESS SPECIFICALLY INDICATED OTHERWISE, USE THE MINIMUM LENGTH FOR A CLASS B LAP SPLICE OR THE MINIMUM DEVELOPMENT LENGTH INDICATED IN THE TABLES ABOVE MULTIPLIED BY THE APPLICABLE FACTOR(S) LISTED BELOW.
2. WHERE THE CLEAR SPACING BETWEEN BARS LAP SPLICED OR EMBEDDED AT ANY SECTION IS LESS THAN 2 BAR DIAMETERS, OR WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER. INCREASE THE INDICATED BAR SPLICE OR DEVELOPMENT LENGTH BY 50%.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
4. MECHANICAL COUPLERS MAY BE SUBSTITUTED FOR TENSION LAP SPLICED BARS PROVIDED THAT THEY MEET THE REQUIREMENTS OF ACI 318-11, 12.14.
5. AT LOCATIONS WHERE REINFORCING WITHIN A STRUCTURAL ELEMENT WILL BE SPLICED, ALTERNATING SPLICES SHALL BE STAGGERED A MINIMUM OF THE CLASS B SPLICE LENGTH UNLESS INDICATED OTHERWISE.

SLAB NOTES

1. SEE GENERAL NOTES (STRUCTURAL) ON SHEET S001.
2. PODIUM SLAB IS 15" THICK REINFORCED WITH A CONTINUOUS (60" LAP AT COLUMN CENTERLINE OF COLUMN STRIPS AND 24" LAP AT COLUMN CENTERLINE OF MID-STRIPS) BOTTOM MAT OF #6 @ 12" EACH WAY. SEE PLAN FOR BOTTOM MAT EXTENDING EAST/WEST THAT SHALL BE SUPPORTED ON 1" SLAB BOLSTERS AT 4'-0"o.c.
3. TOP REINFORCING BARS PLACING SEQUENCE:
   14A 5 19'-9"
   - TOTAL LENGTH OF BAR IN FEET AND INCHES
   - SIZE OF BAR AND LOCATION IN SLAB AS NOTED BELOW
   - TOTAL NUMBER OF EXTRA BARS IN STRIP DEFINED ON PLAN

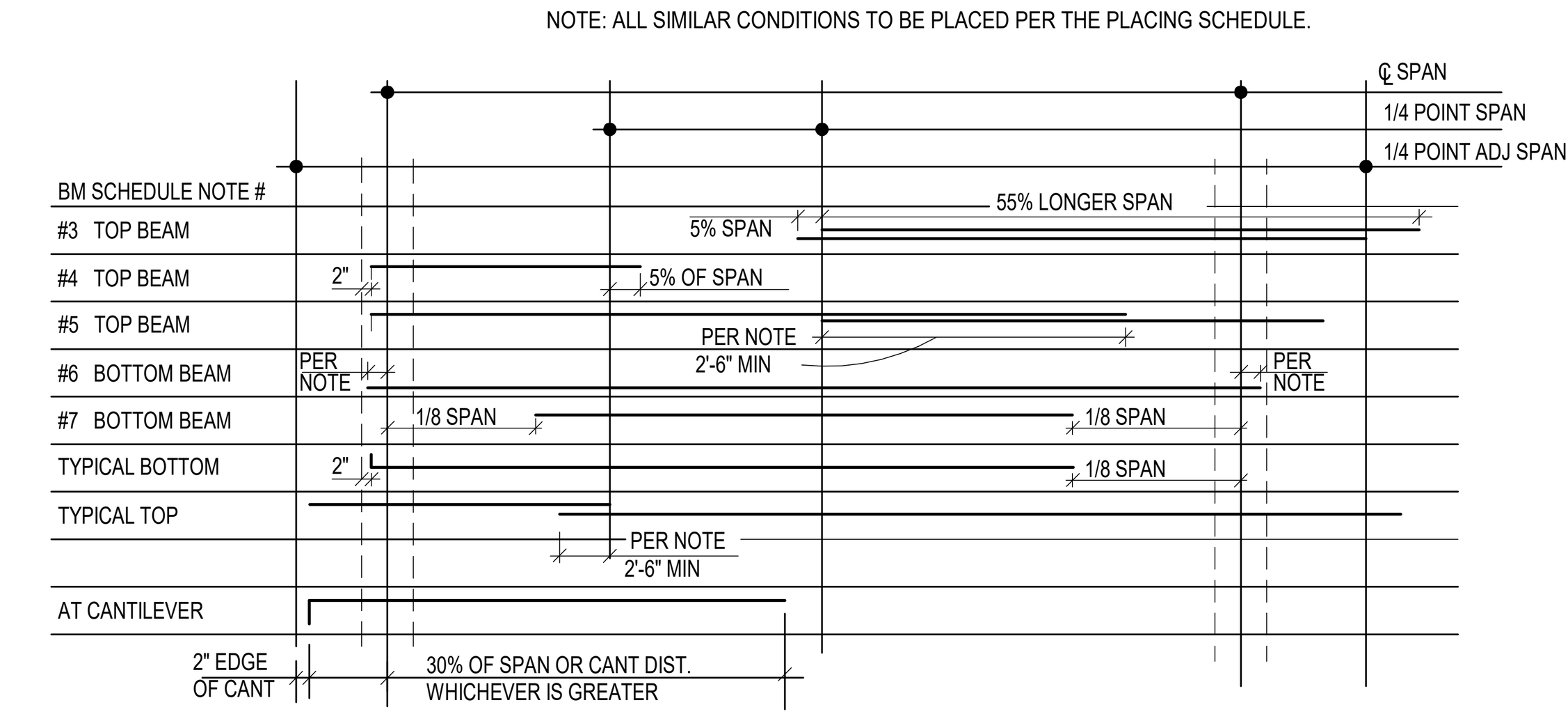
   "A" #6 EXTRA BOTTOM BARS WITH 1" CLEAR COVER BOTTOM. (PLACE WITH 1" CLEAR COVER BOTTOM MAT BARS.)
   "B" #6 EXTRA BOTTOM BARS WITH 1 3/4" CLEAR COVER BOTTOM. (PLACE WITH 1 3/4" CLEAR COVER BOTTOM MAT BARS.) PLACE ON TOP OF PERPENDICULAR (1" CLEAR COVER) BOTTOM MAT AND "A" BARS.
   "C" #7 TOP BARS WITH 1 7/8" CLEAR COVER WHERE TWO LAYERS OF BARS OCCUR AND 1" CLEAR COVER WHERE ONE LAYER OF BARS OCCUR ON IHC @4'-0" o.c. AND #5 SUPPORT BARS @4'-0"o.c.
   "D" #7 TOP BARS WITH 1" CLEAR COVER TOP. PLACE ON TOP OF "C" BARS WHERE THEY OCCUR OR OTHERWISE PLACE ON IHC AT 4'-0"o.c. AND #5 SUPPORT BARS AT 4'-0" o.c.
   "E" #6 TOP BARS WITH 1" CLEAR COVER WHERE ONE LAYER OF BARS OCCUR ON IHC AT 4'-0" o.c. AND #5 SUPPORT BARS AT 4'-0"o.c.
   "F" #5 TOP BARS WITH 1 7/8" CLEAR COVER WHERE TWO LAYERS OF BARS OCCUR AND 1" CLEAR COVER WHERE ONE LAYER OF BARS OCCUR ON IHC AT 4'-0" o.c. AND #5 SUPPORT BARS AT 4'-0"o.c.
   "G" #5 TOP BARS WITH 1" CLEAR COVER TOP, PLACE ON TOP OF "F" BARS WHERE THEY OCCUR, OTHERWISE PLACE ON IHC AT 4'-0" o.c. AND #5 SUPPORT BARS AT 4'-0"o.c.
4. REINFORCING SHALL BE SPLAYED AROUND OPENINGS LESS THAN 18" WIDE. REINFORCING SHALL BE CUT AT OPENINGS GREATER THAN 18" WIDE WITH EQUAL CONTINUOUS BARS ADDED 0NE-HALF EACH SIDE OF OPENING. PROVIDE REINFORCING PER GENERAL NOTE 7F AT ALL OPENINGS LARGER THAN 8".
5. STRIP LINES ARE LOCATED AT 1/4 POINTS BETWEEN COLUMN CENTERLINES UNLESS NOTED ON PLAN OTHERWISE.
6. SEE DETAIL 2/S3.10 FOR PLACING PATTERN FOR TOP REINFORCING BARS OVER INTERIOR COLUMN AS NOTED.
7. TOP BARS SHOWN STAGGERED ON PLAN SHALL BE STAGGERED WHEN PLACED; THE END OF EVERY OTHER BAR TO BE PLACED AT RELATIVE STRIP LINE, UNLESS NOTED ON PLAN.
8. BOTTOM BARS ARE SHOWN THUS — — — — — — — —
   TOP BARS ARE SHOWN THUS ————————
   TOP BARS SHOWN ON PLAN THUS ———┐ SHALL HAVE A STANDARD ACI 90 DEG. HOOK.
9. UNLESS SHOWN ON "S" SERIES DRAWINGS, NO HOLES LARGER THAN TEN INCH DIAMETER SHALL BE PLACED THROUGH SLAB. NOT MORE THAN ONE, SIX TO EIGHT INCH DIAMETER HOLES, OR TWO FOUR INCH DIAMETER HOLES, OR THREE TWO INCH DIAMETER OR SMALLER HOLES SHALL BE PLACE WITHIN 20" OF THE FACE OF THE COLUMNS.
10. CAMBER ALL SPANS BETWEEN 16'-0" AND 24'-0" (CENTERLINE TO CENTERLINE OF SUPPORTS) FOR L/600 MINIMUM AT MIDSPAN (WITH L = SPAN IN INCHES) (I.E., 3/8 AT MIDSPAN FOR 18'-0" SPAN. CAMBER ALL SPANS LONGER THAN 24'-0" FOR L/480 (I.E., 3/4" AT MIDSPAN FOR 30'-0" SPAN.)
11. AT TERMINATION OF COLUMN STRIP AT COLUMN, WALL, BEAM, PROVIDE 90° STANDARD ACI HOOK EACH END AT (4) BOTTOM BARS NEAREST TO COLUMN CENTERLINE PER 6/S3.10

BEAM SCHEDULE PLACING NOTES

1. See General Notes (Structural) on sheet S0.01.
2. Orientation of beams in schedule are as seen from the bottom or right of the plan sheet.
3. Center group of top bars indicated thus ══╫══ in "placed" schedule on centerline of support. Stagger bars 5% of longer span. Bar length = 55% of longer span.
4. Top bars scheduled thus ╫┼ | ║ extend 2" from face of exterior soffet to 5% of span past 1/4 point of span.
5. All lapped top bars shall have a minimum of lap of 2'-6" or 48 bar diameters. Perimeter beams shall have two bars lapped a minimum of 66 bar diamters.
6. Bottom bars indicated thus ╫┼──┼╫ in "placed schedule to have scheduled bars extend 12" past centerline of support each end and a minimum 2 bars with a 66 bar diameter lap.
7. Bottom bars scheduled thus ║ ┼──┼ ║ extend to within 1/8 point of span.
8. Start stirrups 2" from face of support each end unless noted.
9. All bars shown thus ____┘ to have standard ACI hook. Extend to within 2" of exterior face.
10. No holes, sleeves, or conduit larger than 1" diameter round shall be put through beams without written authorization from the engineer. All conduit shall be PVC (non metalic).
11. Splice length at bars of different sizes shall be based on the larger of the two bar diameters.

BEAM PLACEMENT SCHEDULE

NOTE: ALL SIMILAR CONDITIONS TO BE PLACED PER THE PLACING SCHEDULE.



paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI — CHRISTOPHER A. BEVERLIN — Number PE-2017012585 — PROFESSIONAL ENGINEER — 7-22-22

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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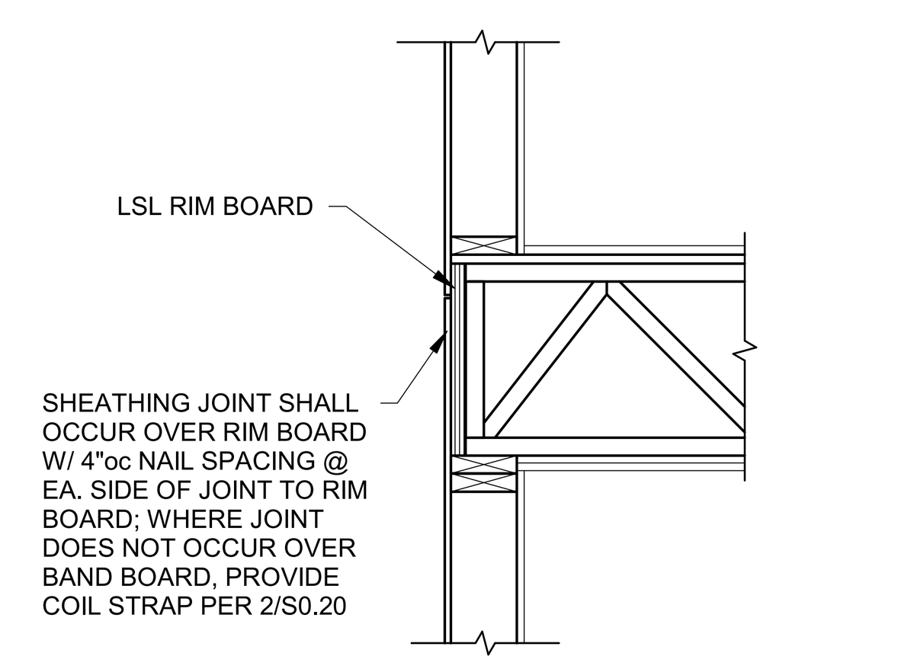
Structural Engineers Since 1957
4338 Belleview Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

CONCRETE SCHEDULE

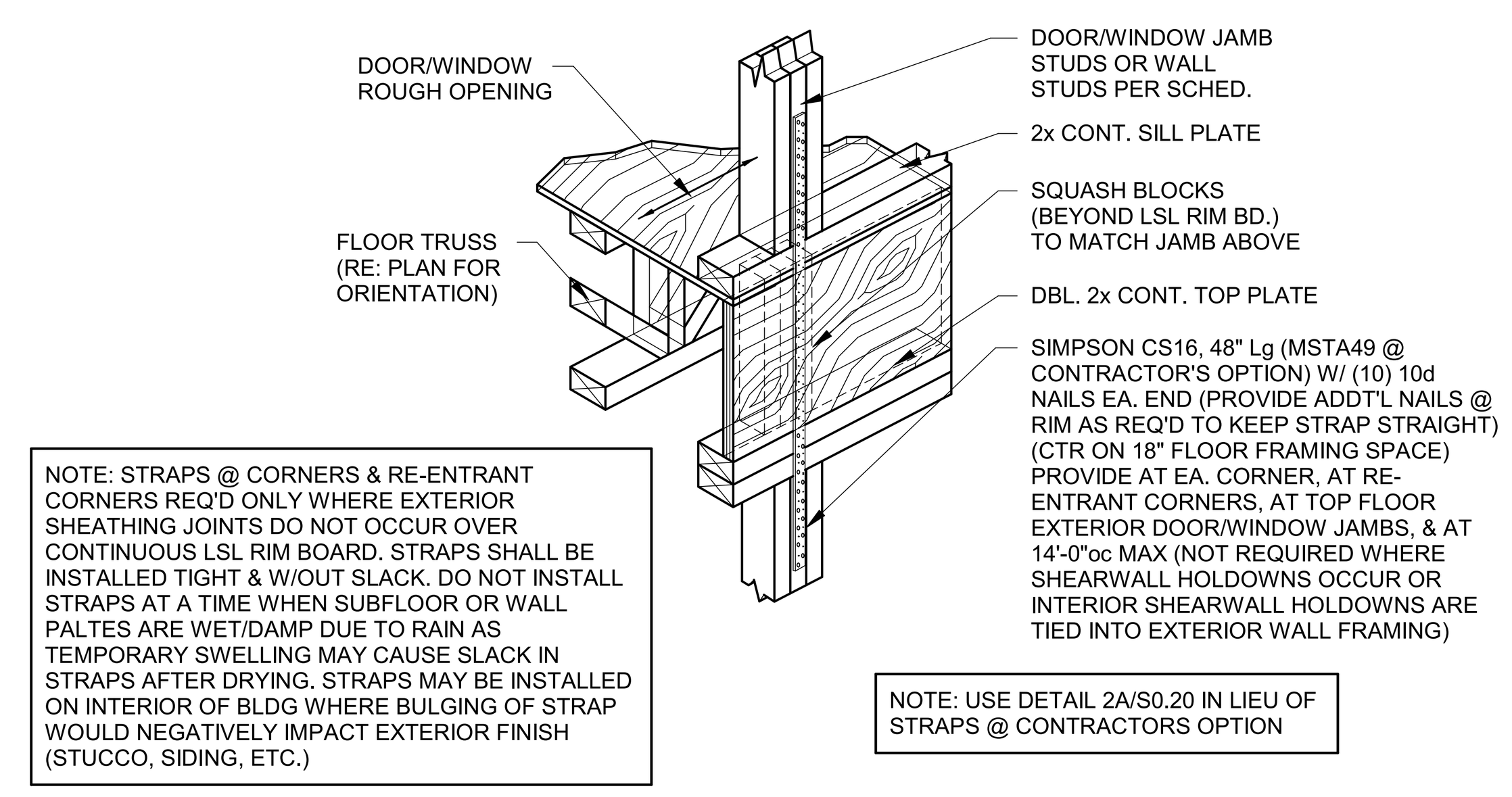
SHEET NUMBER

S0.10



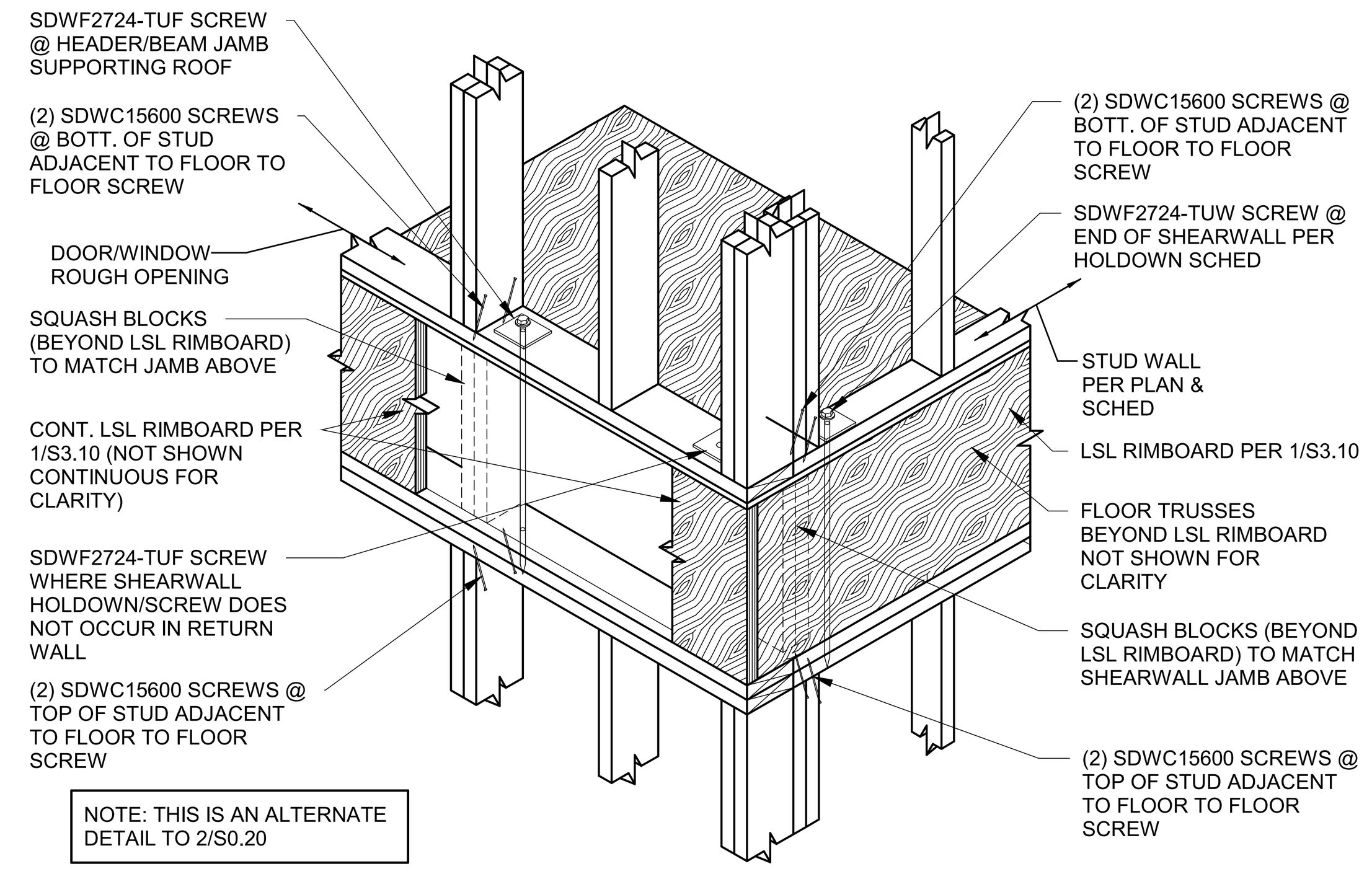
TYPICAL EXTERIOR SHEATHING JOINT

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



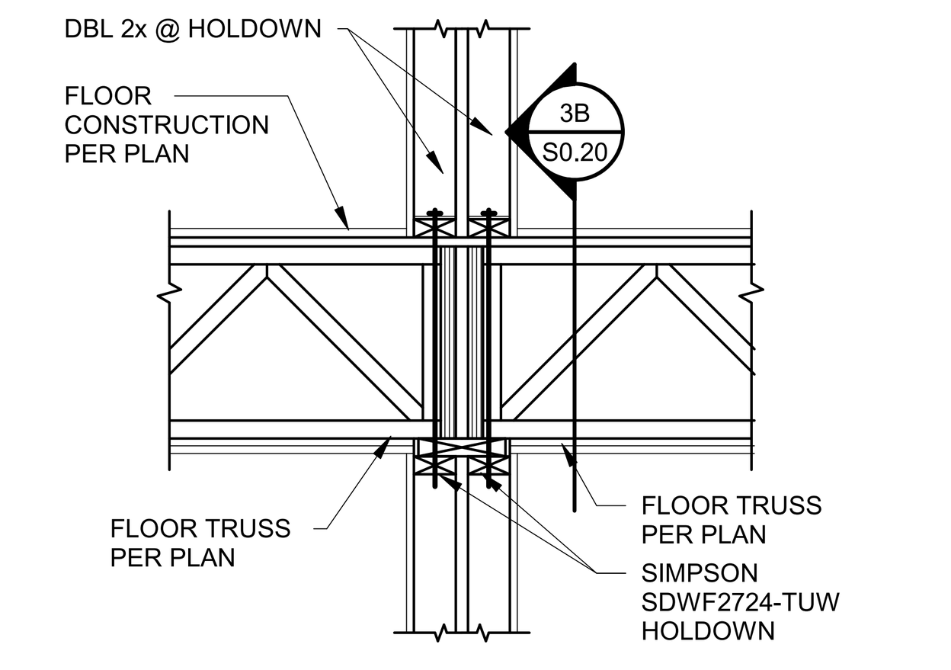
TYPICAL COIL STRAP @ EXTERIOR JAMBS SUPPORTING ROOF FRAMING AT FLOOR DIRECTLY BELOW ROOF AND FLOOR TO FLOOR TIES WHERE DETAIL 1/S0.20 IS NOT FOLLOWED

2 SECTION
3/4" = 1'-0"



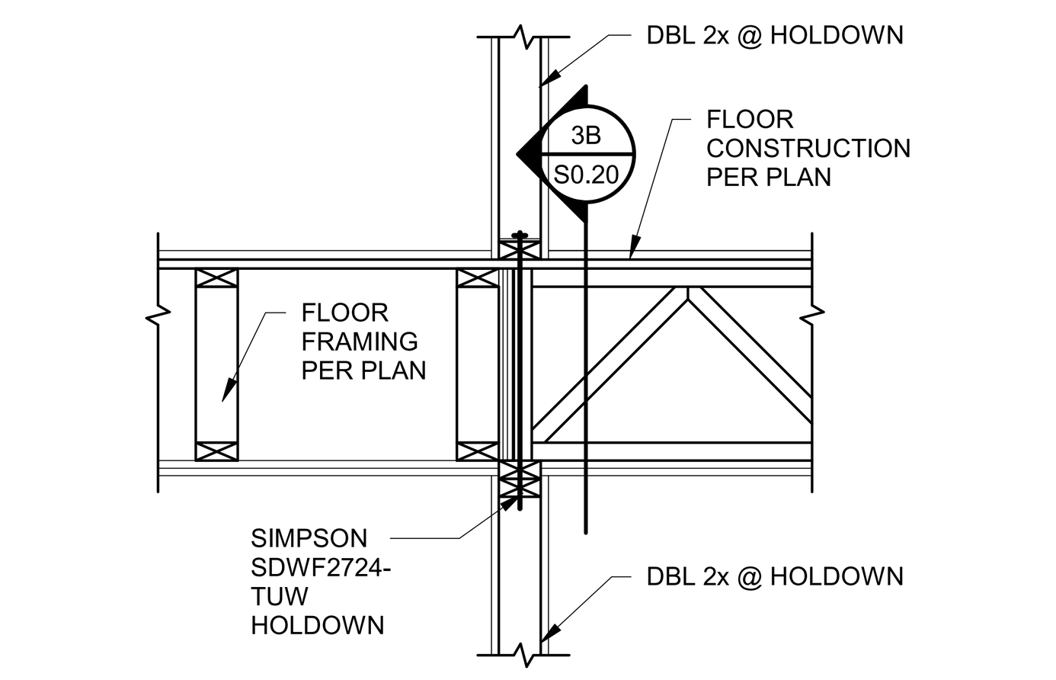
TYPICAL FLOOR-TO-FLOOR SCREW @ EXTERIOR JAMBS SUPPORTING ROOF FRAMING AT FLOOR DIRECTLY BELOW ROOF AND FLOOR TO FLOOR TIES WHERE DETAIL 1/S0.20 IS NOT FOLLOWED

2A SECTION
3/4" = 1'-0"



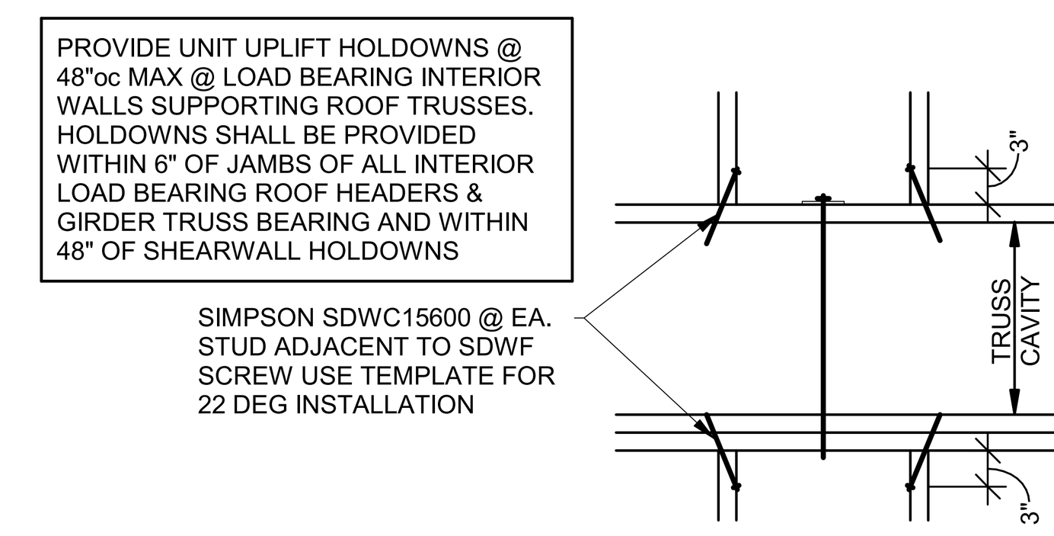
TYPICAL UNIT UPLIFT HOLDOWN DETAIL @ TOP FLOOR ROOF TRUSS BEARING WALLS

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



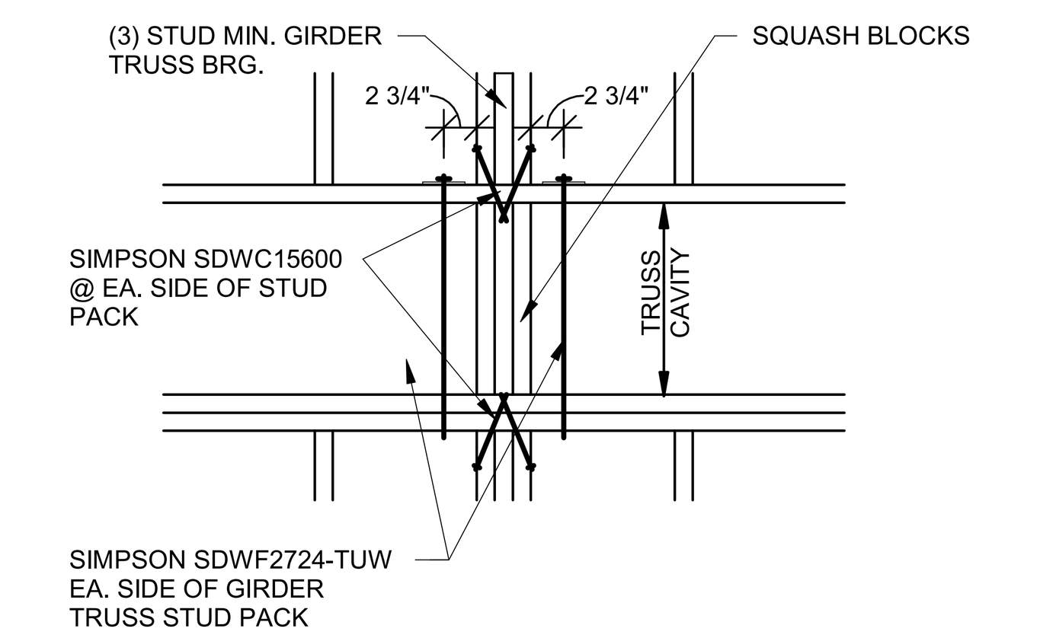
TYPICAL UNIT UPLIFT HOLDOWN DETAIL @ TOP FLOOR ROOF TRUSS BEARING WALLS

3A SECTION
3/4" = 1'-0"



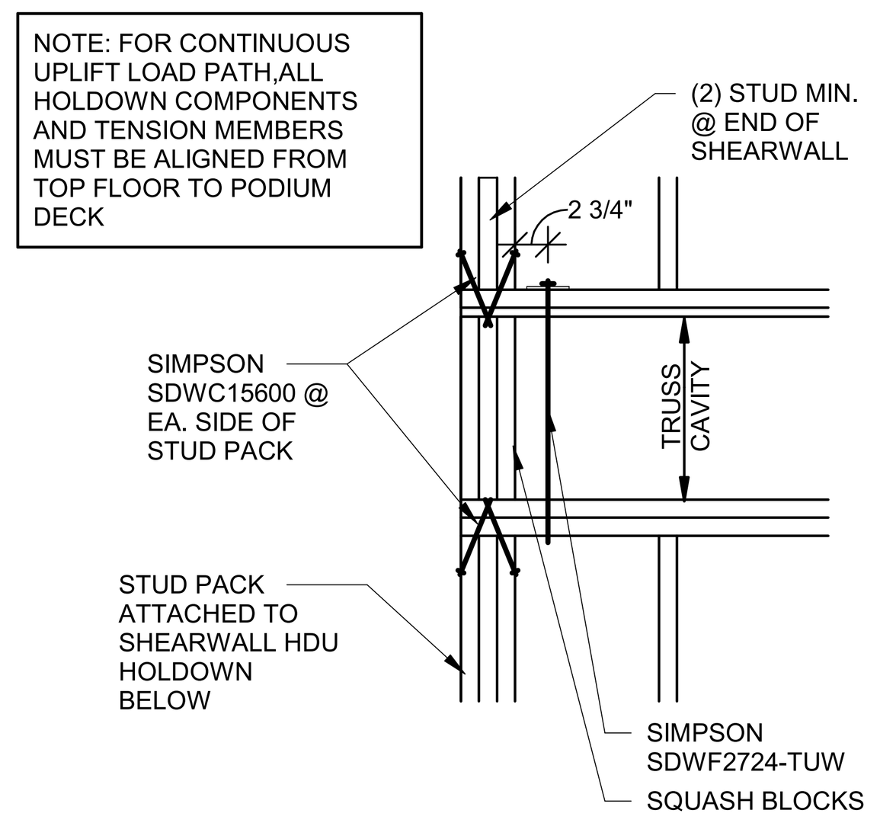
TYP SIDE VIEW AT DBL STUD SCREWS AT HOLDOWN

3B DETAIL
3/4" = 1'-0"



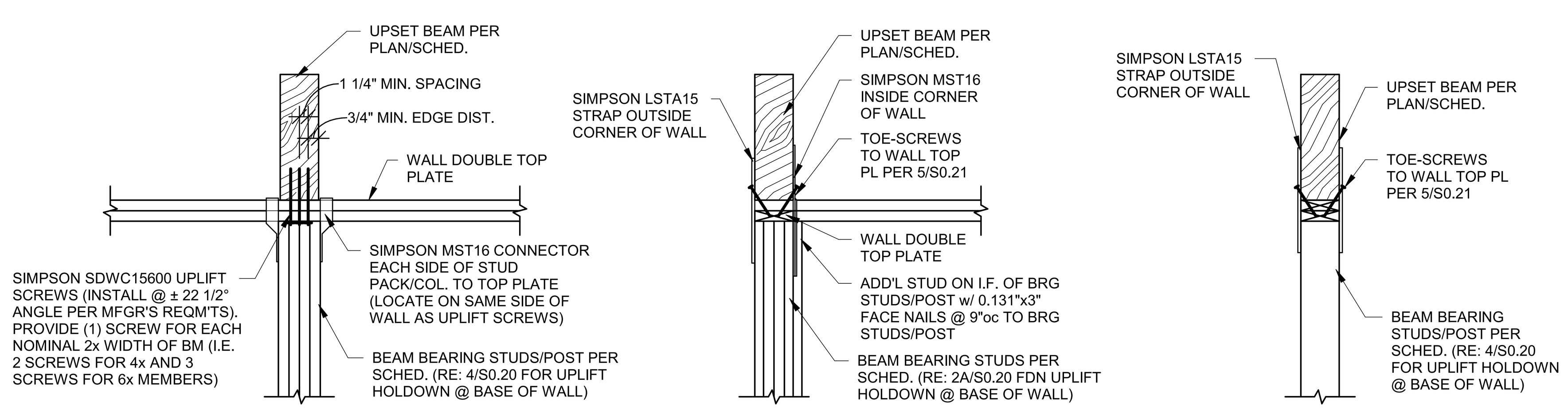
TYPICAL GIRDER TRUSS UPLIFT HOLDOWN DETAIL @ TOP FLOOR

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



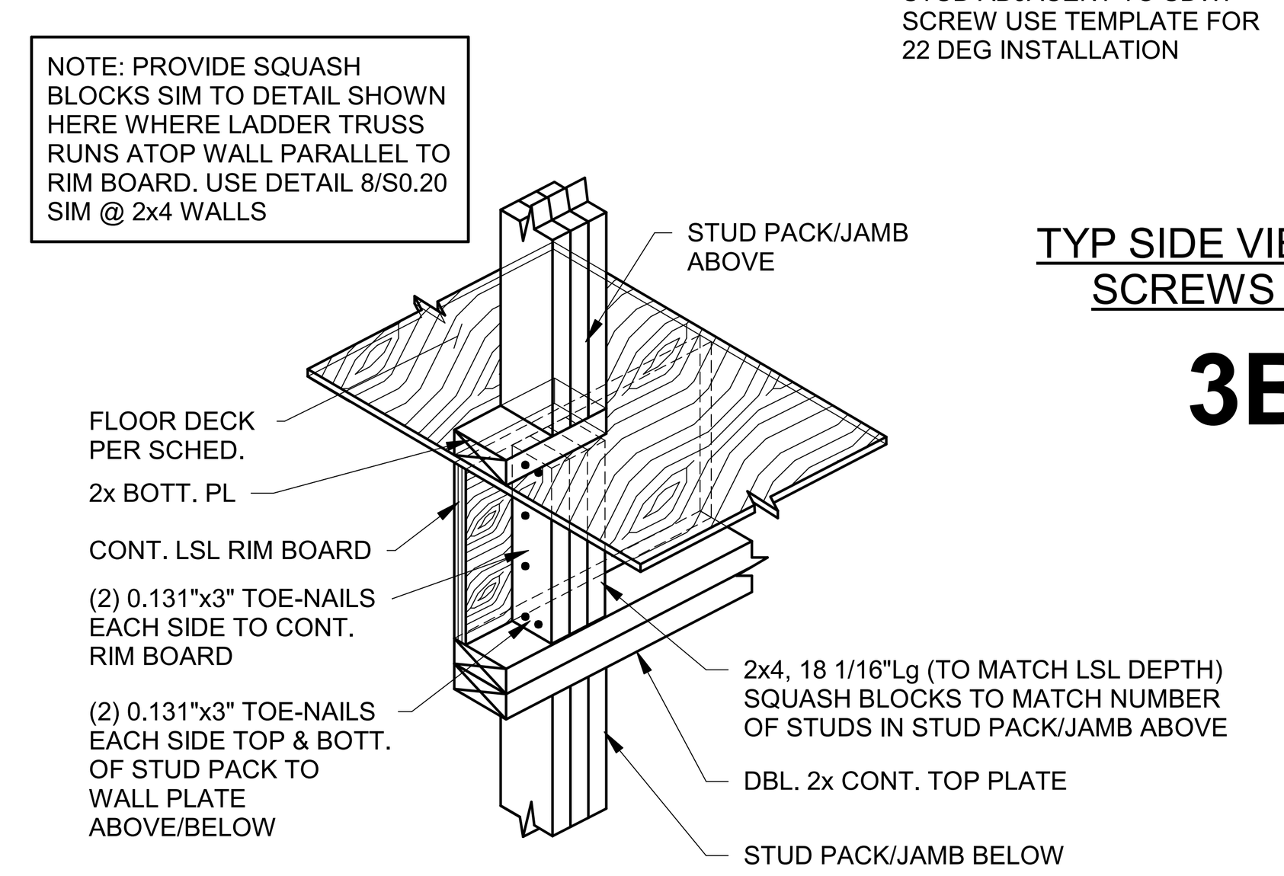
ALTERNATE FLOOR TO FLOOR TIE-DOWN AT END OF WALL

5 SECTION
3/4" = 1'-0"



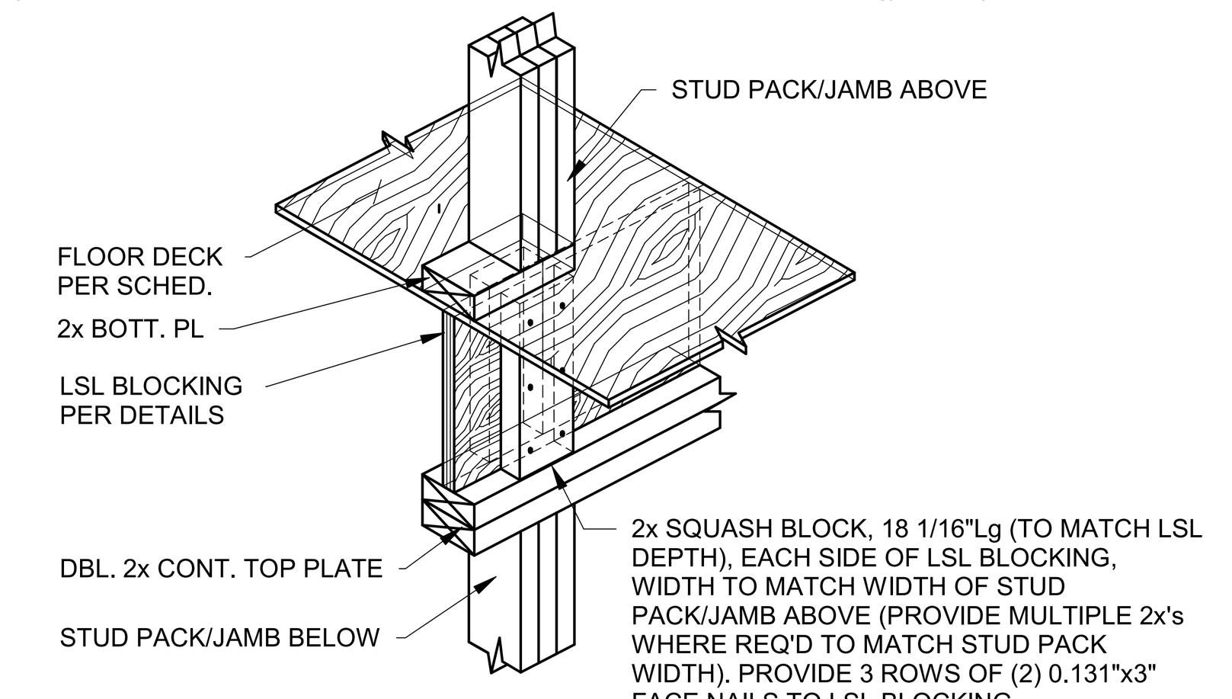
TYPICAL UPSET WOOD BEAM UPLIFT HOLDOWN AT BEAMS SUPPORTING ROOF TRUSS BEARING WALLS OR WHERE INDICATED

6 SECTION
3/4" = 1'-0"



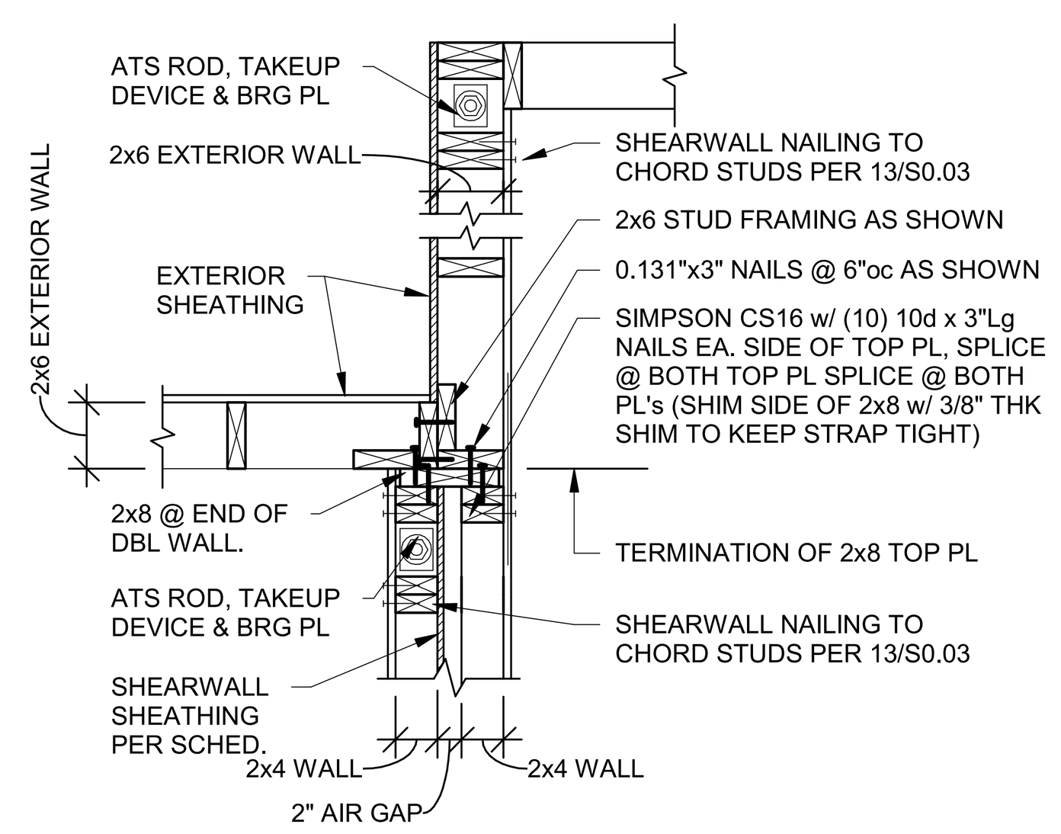
TYPICAL SQUASH BLOCK DETAIL AT CONTINUOUS RIM BOARD

7 SECTION
3/4" = 1'-0"



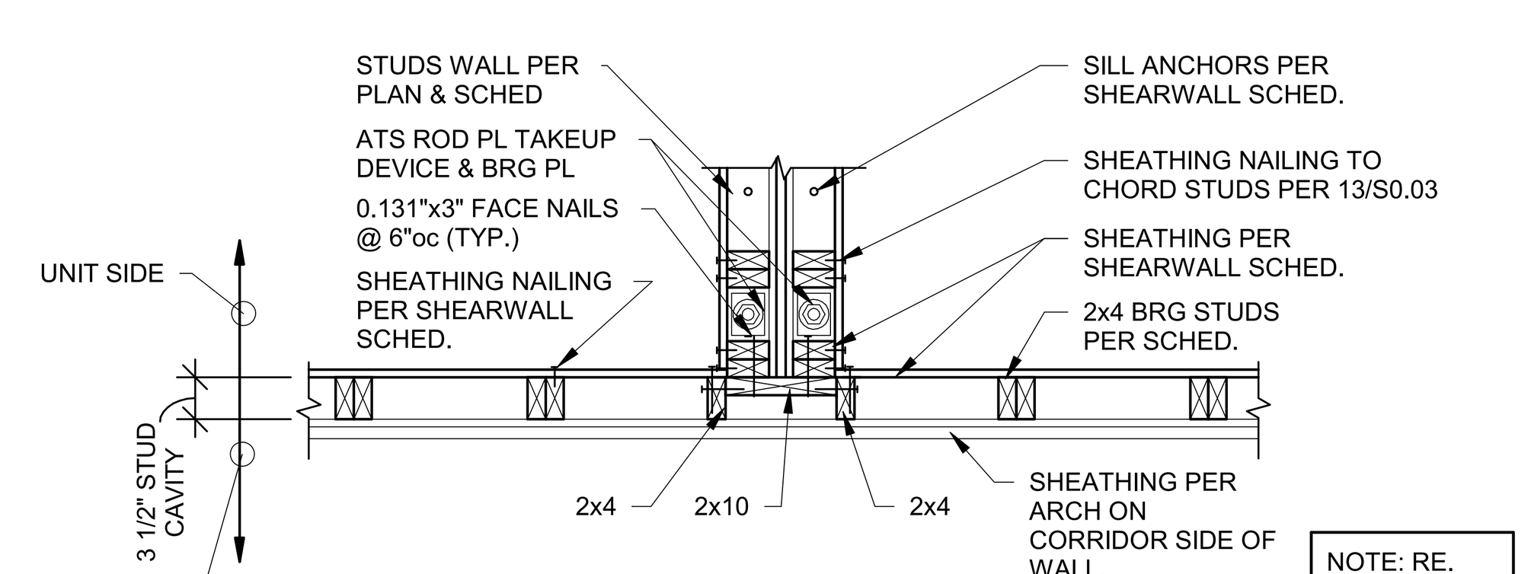
TYPICAL SQUASH BLOCK DETAIL AT LSL BLOCKING

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



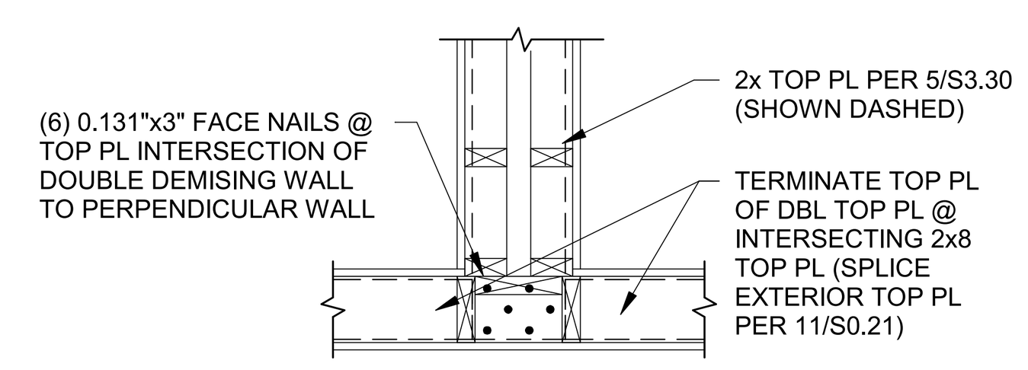
TYPICAL @ UNIT PARTY WALL TRANSITION TO 2x6 EXT. WALL

9 SECTION
3/4" = 1'-0"



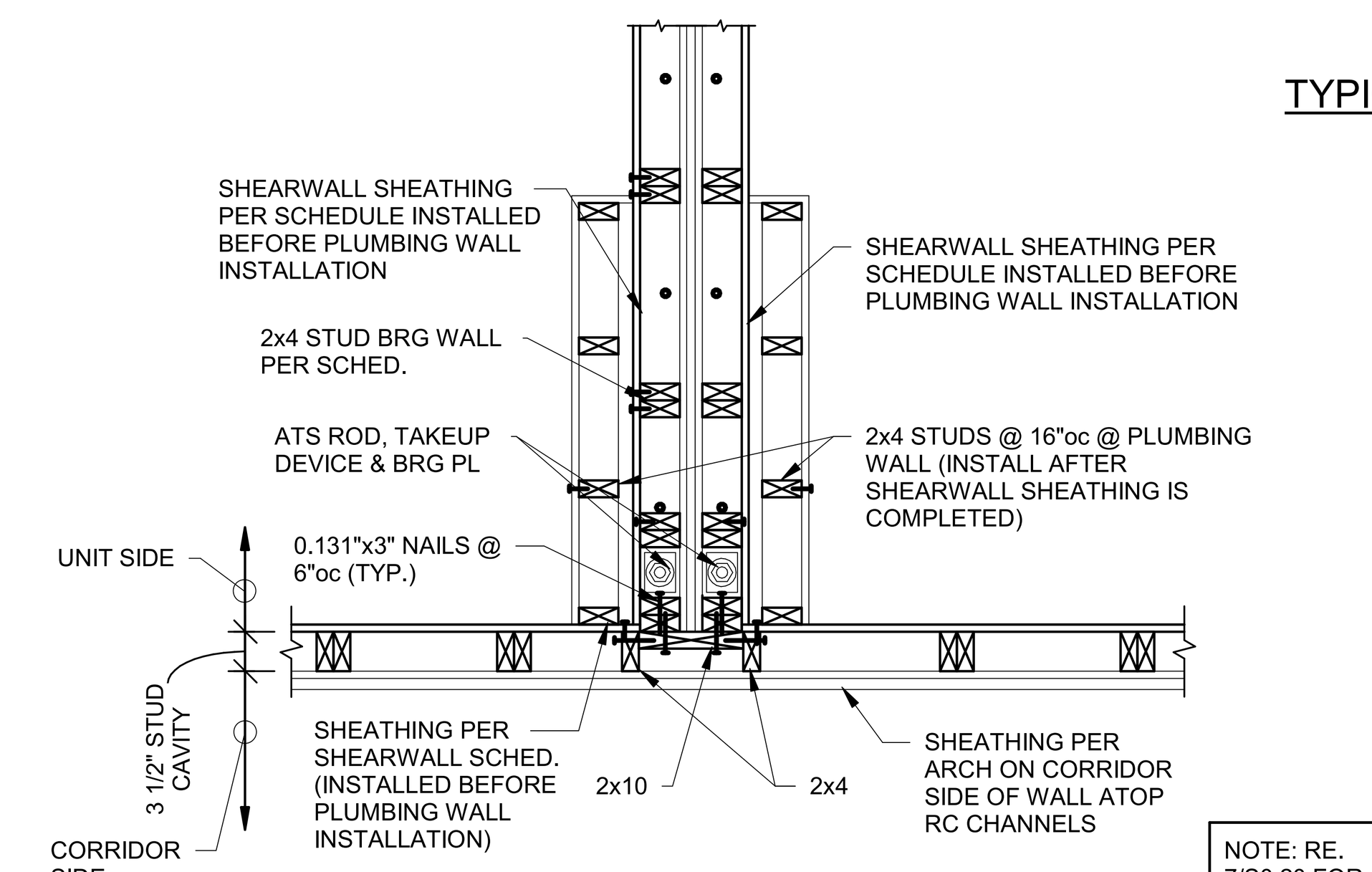
TYPICAL INTERSECTION OF UNIT DEMISING WALL & CORRIDOR WALL (SIM @ EXT. WALL)

10 SECTION
3/4" = 1'-0"



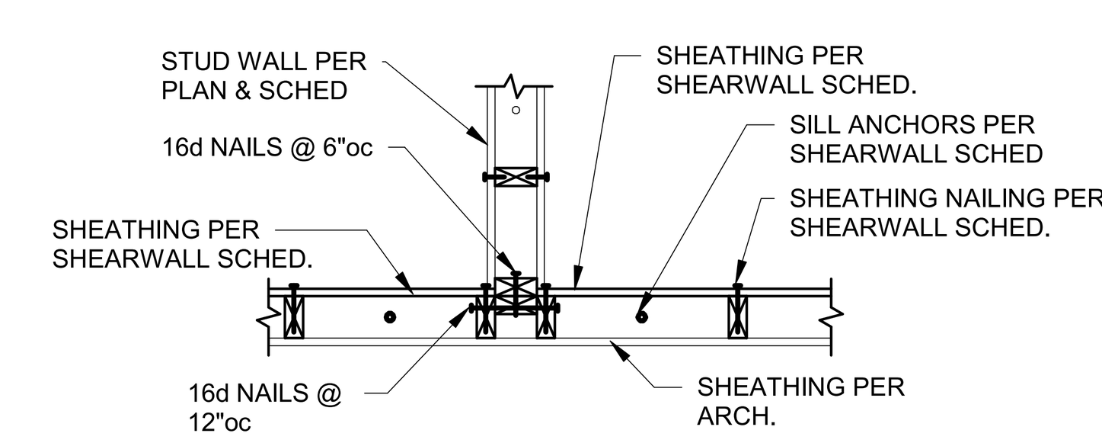
TYPICAL TOP PL LAP @ UNIT DEMISING WALL AT DISCONT. END

11 SECTION
3/4" = 1'-0"



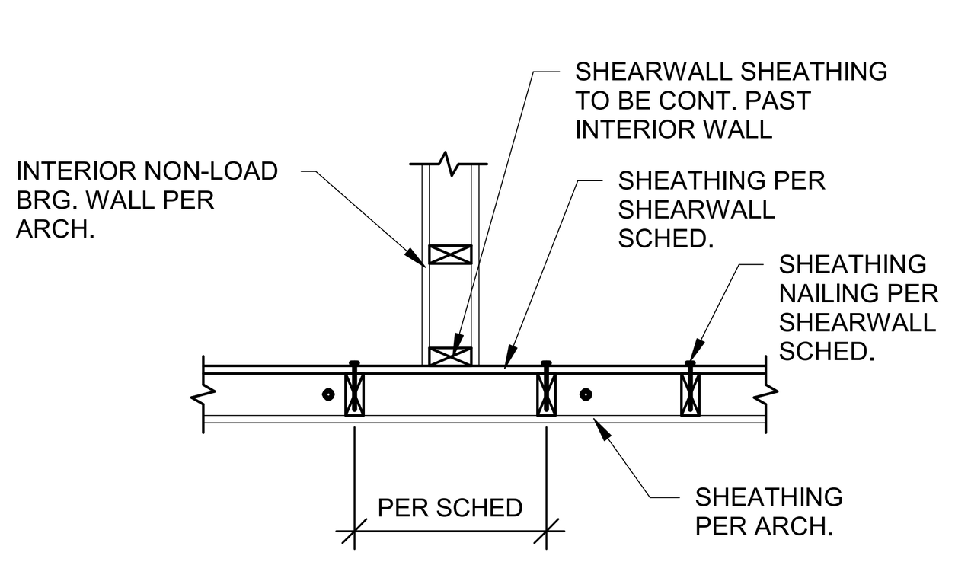
TYPICAL INTERSECTION OF CORRIDOR WALL AND UNIT DEMISING WALL w/ PLUMBING WALL

12 SECTION
3/4" = 1'-0"



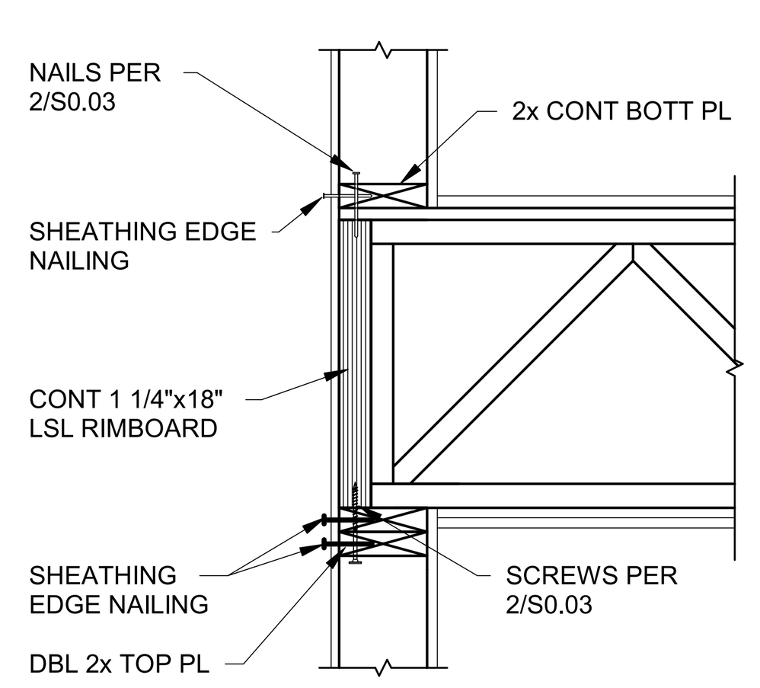
TYPICAL @ DISCONTINUOUS SHEARWALL SHEATHING

13 SECTION
3/4" = 1'-0"



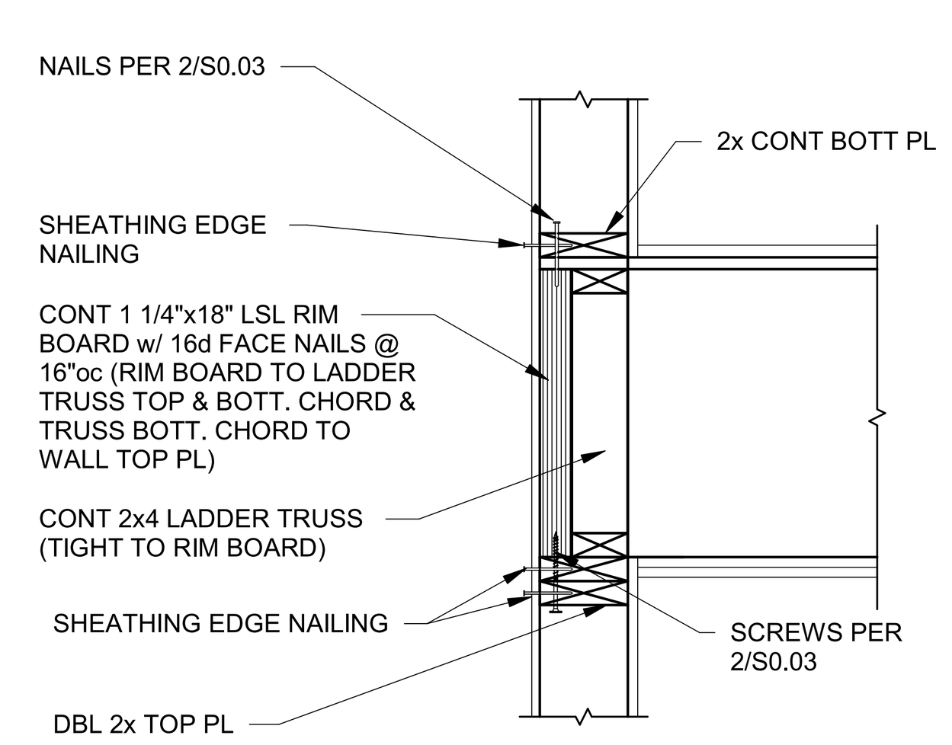
TYPICAL @ SHEARWALL SHEATHING CONTINUOUS PAST NON-LOAD BRG WALL

14 SECTION
3/4" = 1'-0"



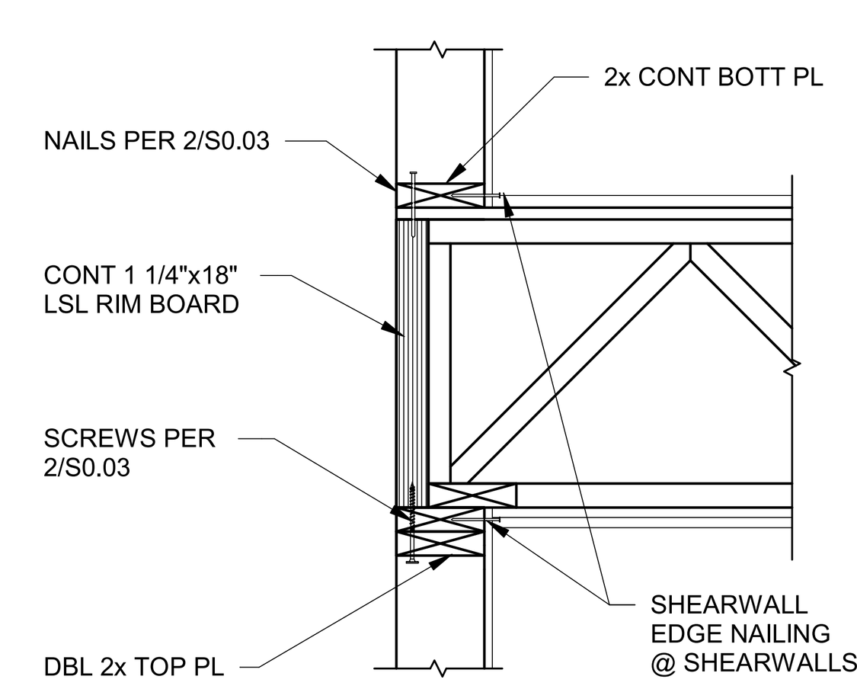
TYPICAL LATERAL NAILING AT EXTERIOR WALL WITH TRUSS BEARING

15 SECTION
1" = 1'-0"



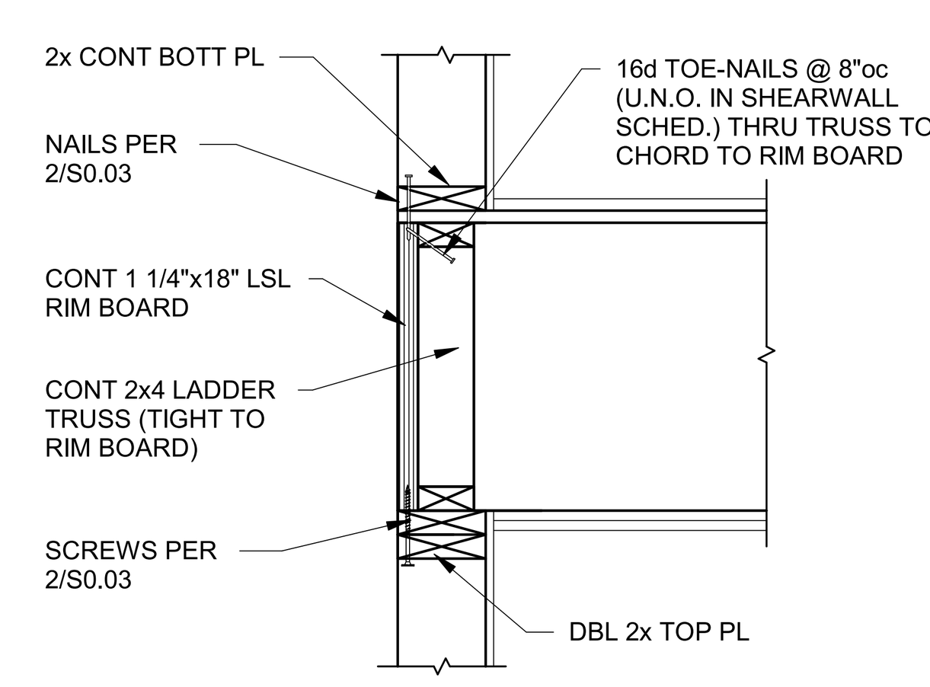
TYPICAL LATERAL NAILING AT EXTERIOR WALL PARALLEL TO TRUSSES

15A SECTION
1" = 1'-0"



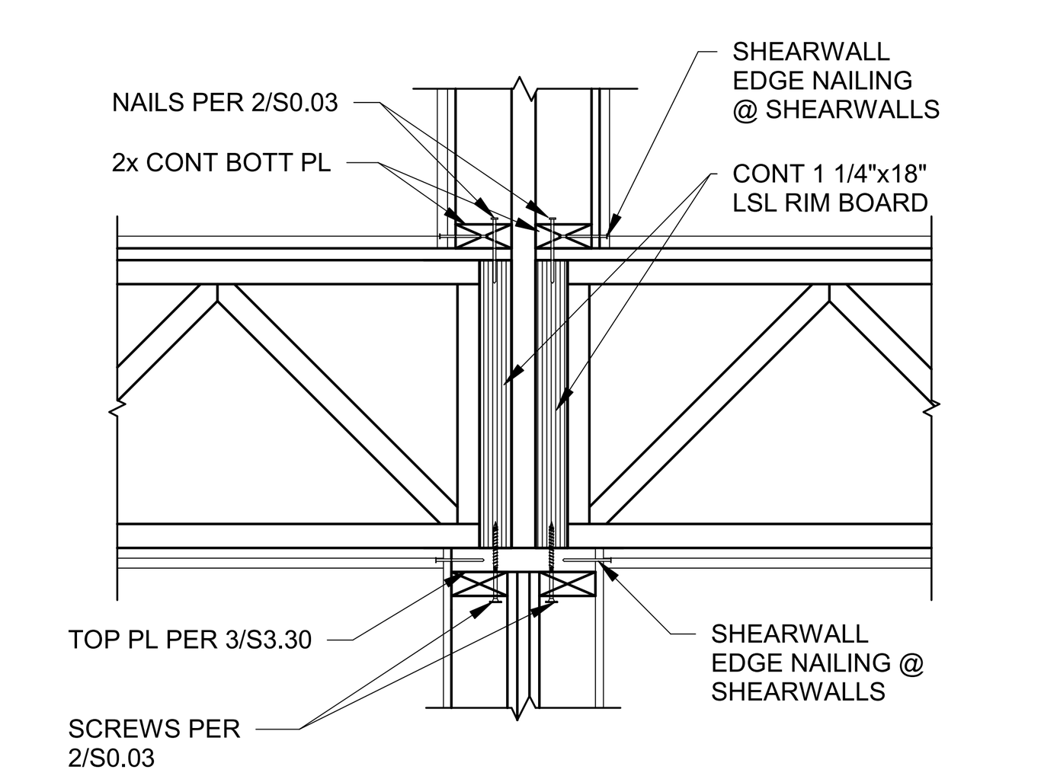
TYPICAL LATERAL NAILING AT ONE SIDED WALL WITH TRUSS BEARING

15B SECTION
1" = 1'-0"



TYPICAL LATERAL NAILING AT UNIT DEMISING WALL OR ONE SIDED WALL PARALLEL TO TRUSSES

15C SECTION
1" = 1'-0"



TYPICAL LATERAL NAILING AT DOUBLE UNIT DEMISING WALLS WITH TRUSS BEARING

15D SECTION
1" = 1'-0"

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description

REGISTRATION

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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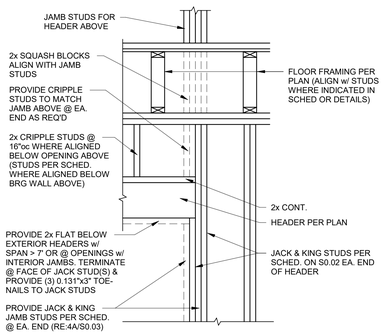
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

WOOD TYPICAL DETAILS

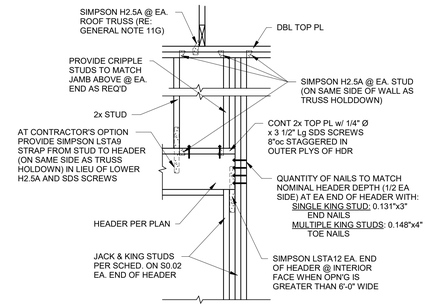
SHEET NUMBER

S0.20



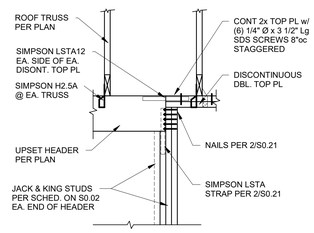
TYPICAL HEADER DETAIL

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



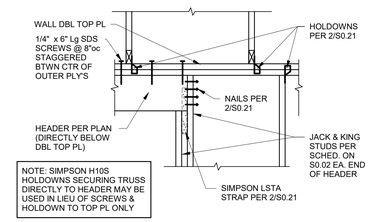
TYPICAL HEADER DETAIL @ ROOF TRUSS BRG LOCATIONS

2 SECTION 3/4" = 1'-0"



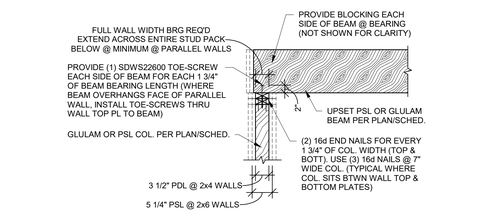
TYPICAL HEADER DETAIL AT DISCONTINUOUS TOP PLATE AT ROOF

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



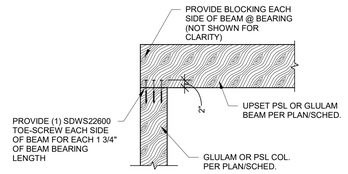
TYPICAL HEADER DEATIL AT ROOF TRUSS BRG LOCATIONS w/HEADER DIRECTLY BELOW DBL TOP PL

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



TYPICAL PSL OR GLULAM BEAM AND/OR COLUMN DETAIL

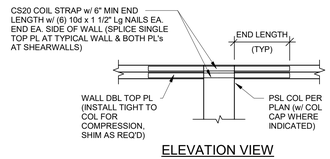
5 SECTION 3/4" = 1'-0"



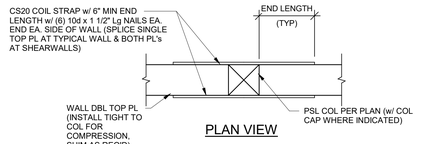
TYPICAL PSL OR GLULAM BEAM BEARING DIRECTLY ON GLULAM OR PSL COLUMN DETAIL

NOTES:
1. REFER TO 5/S0.21 WHERE COL IS SET BTWN WALL TOP & BOTTOM PLATES
2. PROVIDE STRAPS PER 6/S0.21 AT DISCONTINUOUS WALL TOP PLATES.

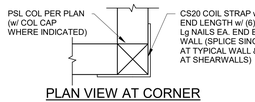
5A SECTION 3/4" = 1'-0"



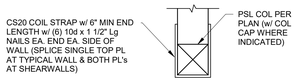
ELEVATION VIEW



PLAN VIEW



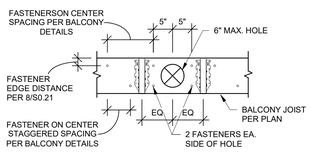
PLAN VIEW AT CORNER



PLAN VIEW AT END OF WALL

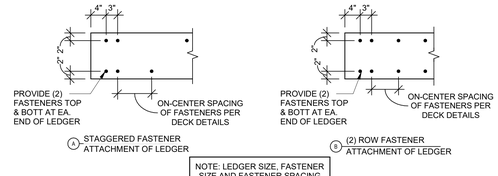
TYPICAL STRAPS @ DISCONTINUOUS TOP PL @ COL

6 SECTION 3/4" = 1'-0"



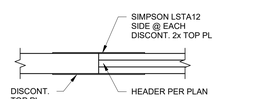
TYPICAL HOLE THRU LEDGER DETAIL

9 SECTION 3/4" = 1'-0"



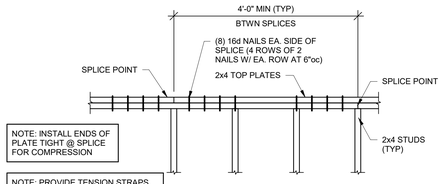
TYPICAL LEDGER CONNECTION

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



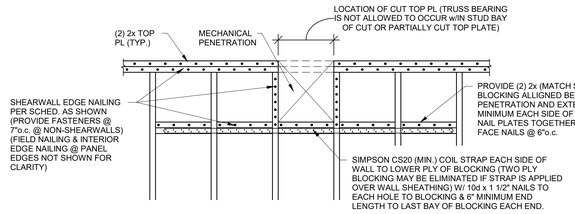
TYPICAL SPLICE AT DISCONTINUOUS TOP PL

10 SECTION 3/4" = 1'-0"



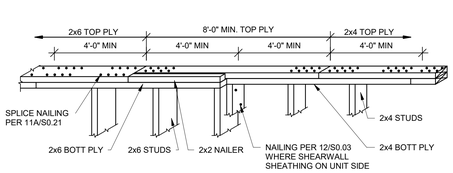
TYPICAL TOP PLATE SPLICE

11 SECTION 3/4" = 1'-0"



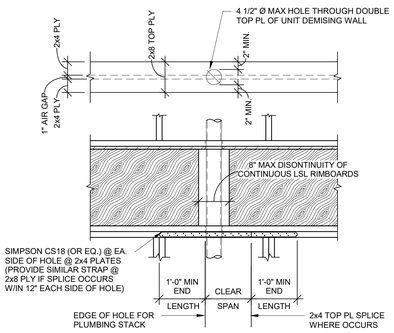
TYPICAL TOP PLATE SPLICE AT SHEARWALL OR BEARING WALL DUE TO MECH. PENETRATION

11A SECTION 3/4" = 1'-0"



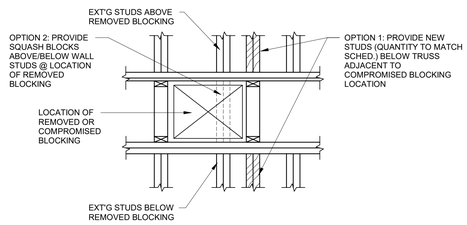
TYPICAL TOP PLATE SPLICE AT WALL SIZE TRANSITION

12 SECTION 3/4" = 1'-0"



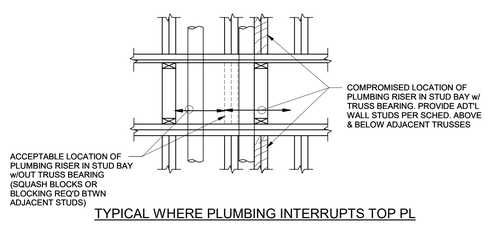
TYPICAL DETAIL AT PLUMBING STACK IN DOUBLE UNIT DEMISING WALLS

13 SECTION 3/4" = 1'-0"



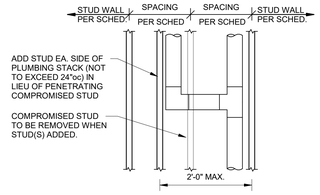
TYPICAL WHERE MECHANICAL DUCT INTERRUPTS LSL

14 SECTION 3/4" = 1'-0"



TYPICAL WHERE PLUMBING INTERRUPTS TOP PL

15 SECTION 3/4" = 1'-0"



TYPICAL WHERE PLUMBING STACK HAS HORIZONTAL JOG

16 SECTION 3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07,19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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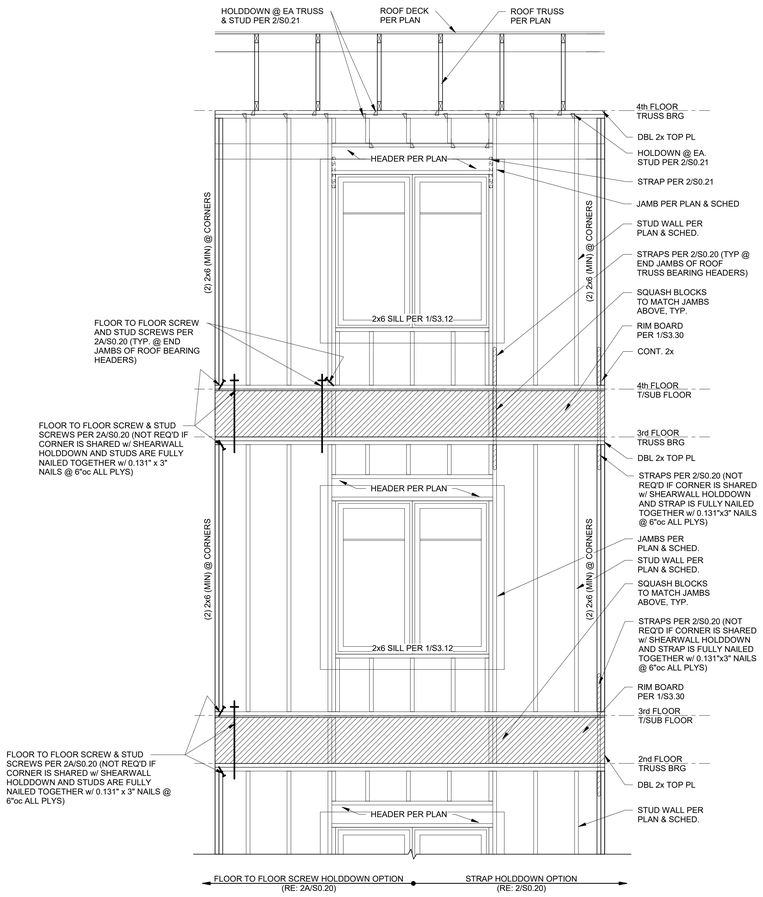
SHEET TITLE

WOOD TYPICAL DETAILS

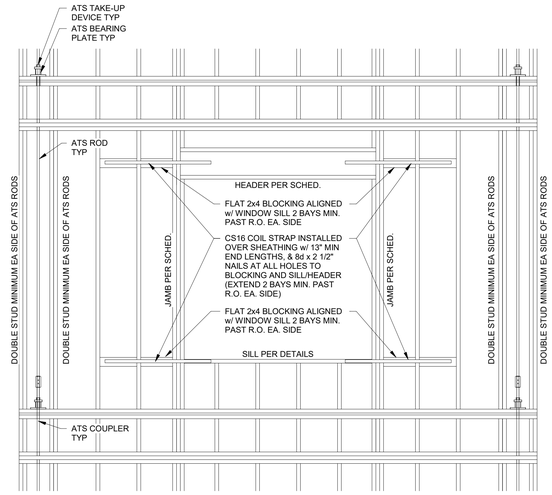
SHEET NUMBER

S0.21



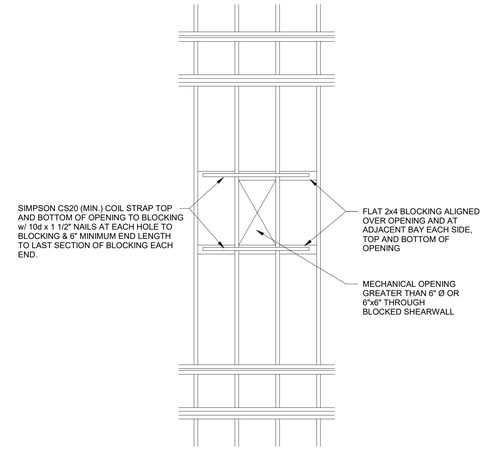
TYPICAL EXTERIOR ELEVATION OF STRUCTURAL BAY

1 ELEVATION
1/2" = 1'-0"



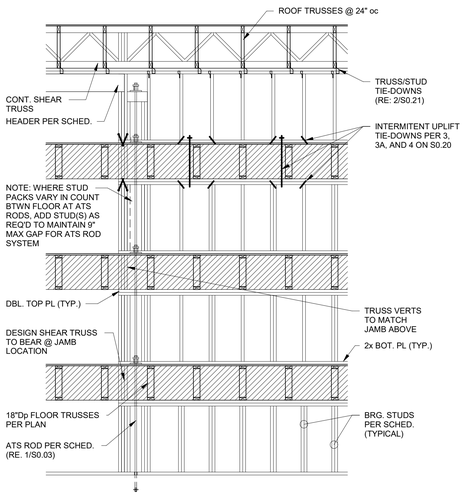
TYPICAL "SW1" FORCE TRANSFER SHEARWALL ELEVATION @ WINDOW OPENINGS

2 ELEVATION
1/2" = 1'-0"



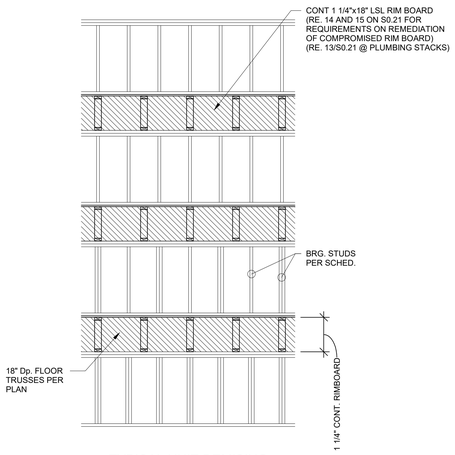
TYPICAL OPENING THROUGH BLOCKED SHEARWALL

3 ELEVATION
1/2" = 1'-0"



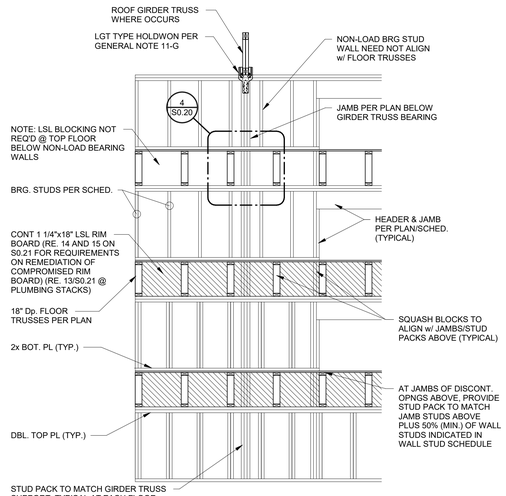
TYPICAL CORRIDOR BEARING WALL ELEVATION

A ELEVATION
3/8" = 1'-0"



TYPICAL UNIT DEMISING WALL ELEVATION

B ELEVATION
3/8" = 1'-0"



TYPICAL INTERIOR BEARING WALL ELEVATION

C ELEVATION
3/8" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Since 1957
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Kansas City, MO 64111
816.531.4144
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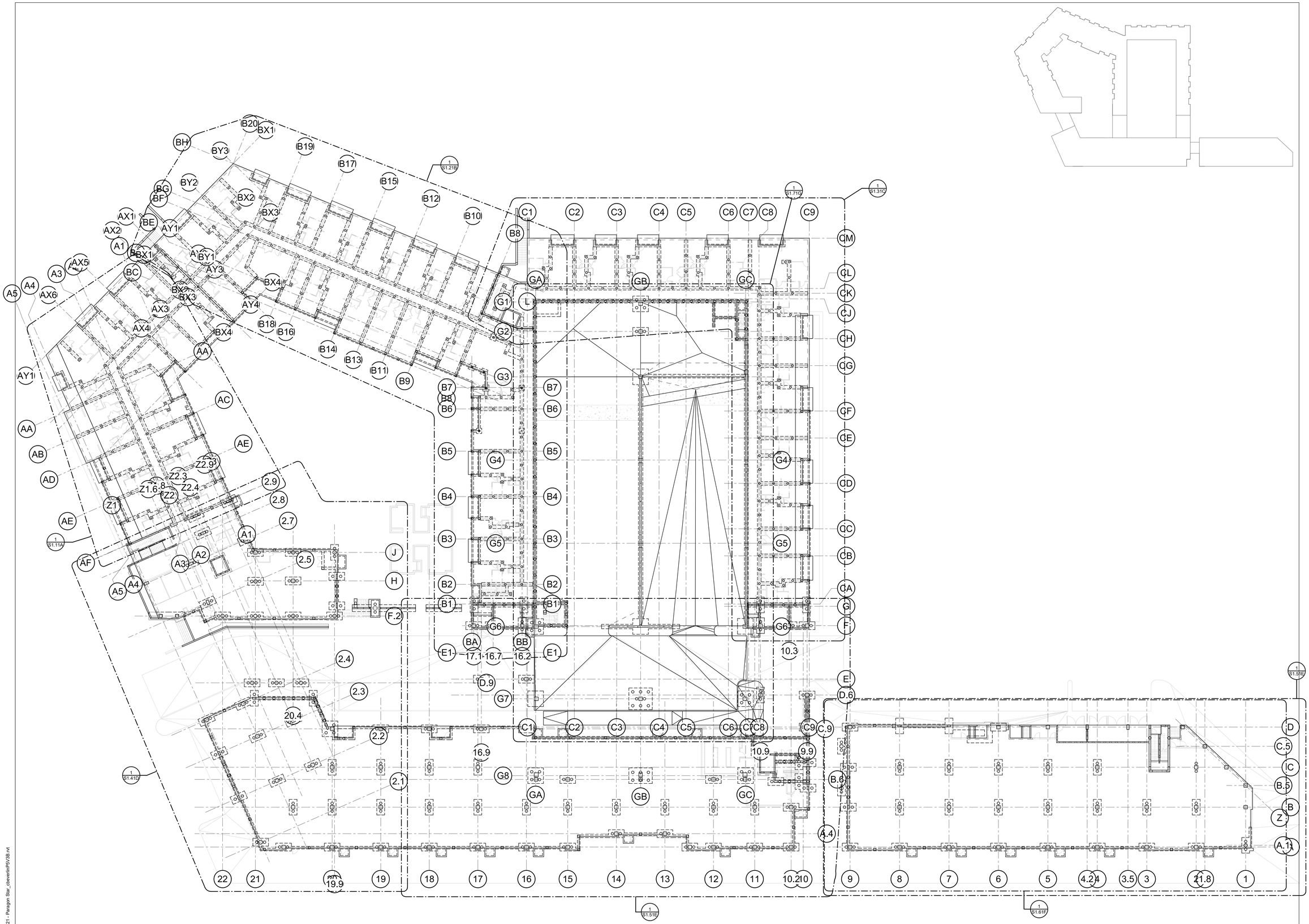
SHEET TITLE

WOOD TYPICAL DETAILS

SHEET NUMBER

S0.22



1 FOUNDATION PLAN OVERALL

1" = 20'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

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1-22-22
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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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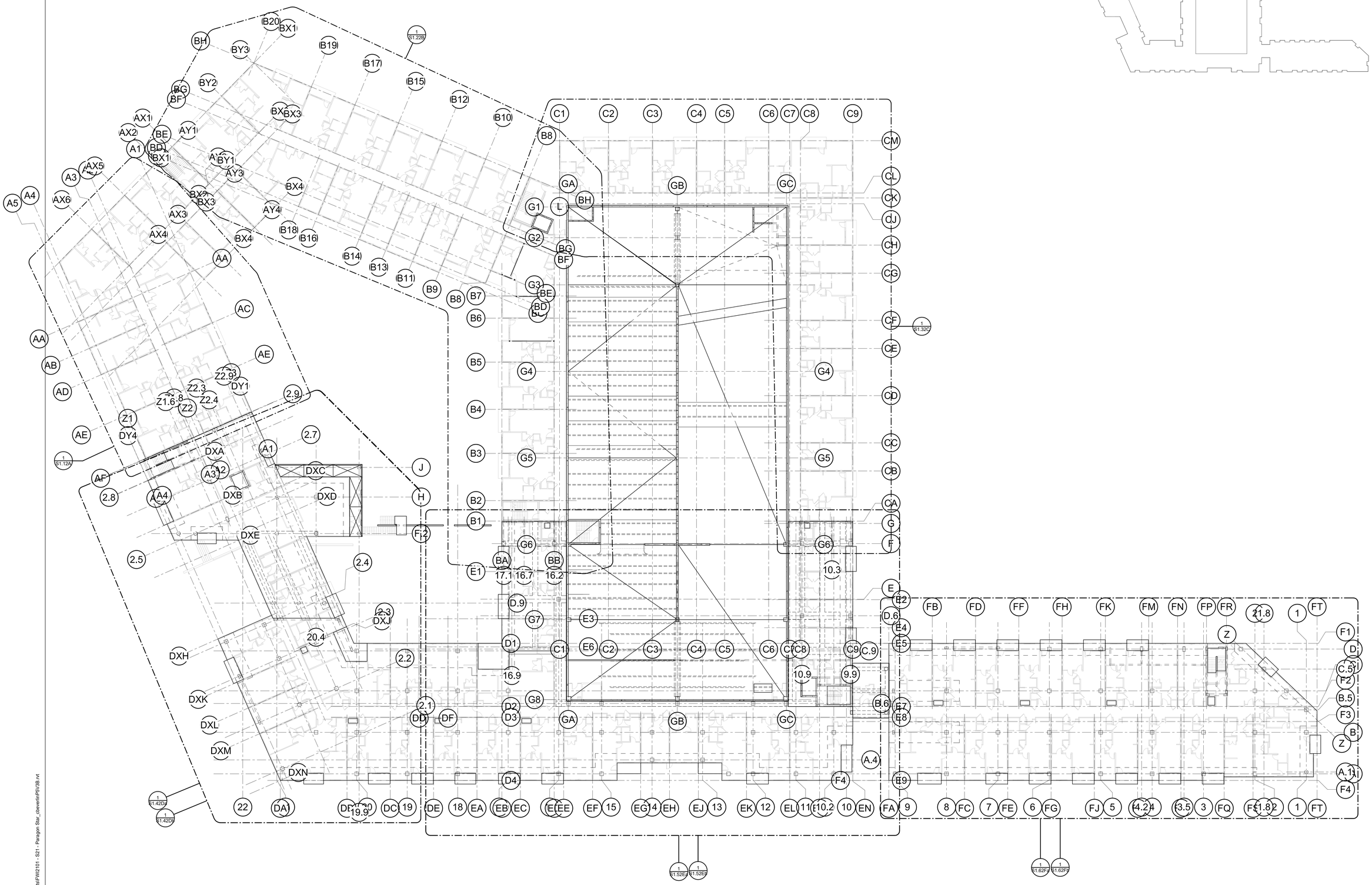
SHEET TITLE

FOUNDATION PLAN

SHEET NUMBER

S1.01



1 **2ND FLOOR FRAMING PLAN OVERALL**
1" = 20'-0"

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PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
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1-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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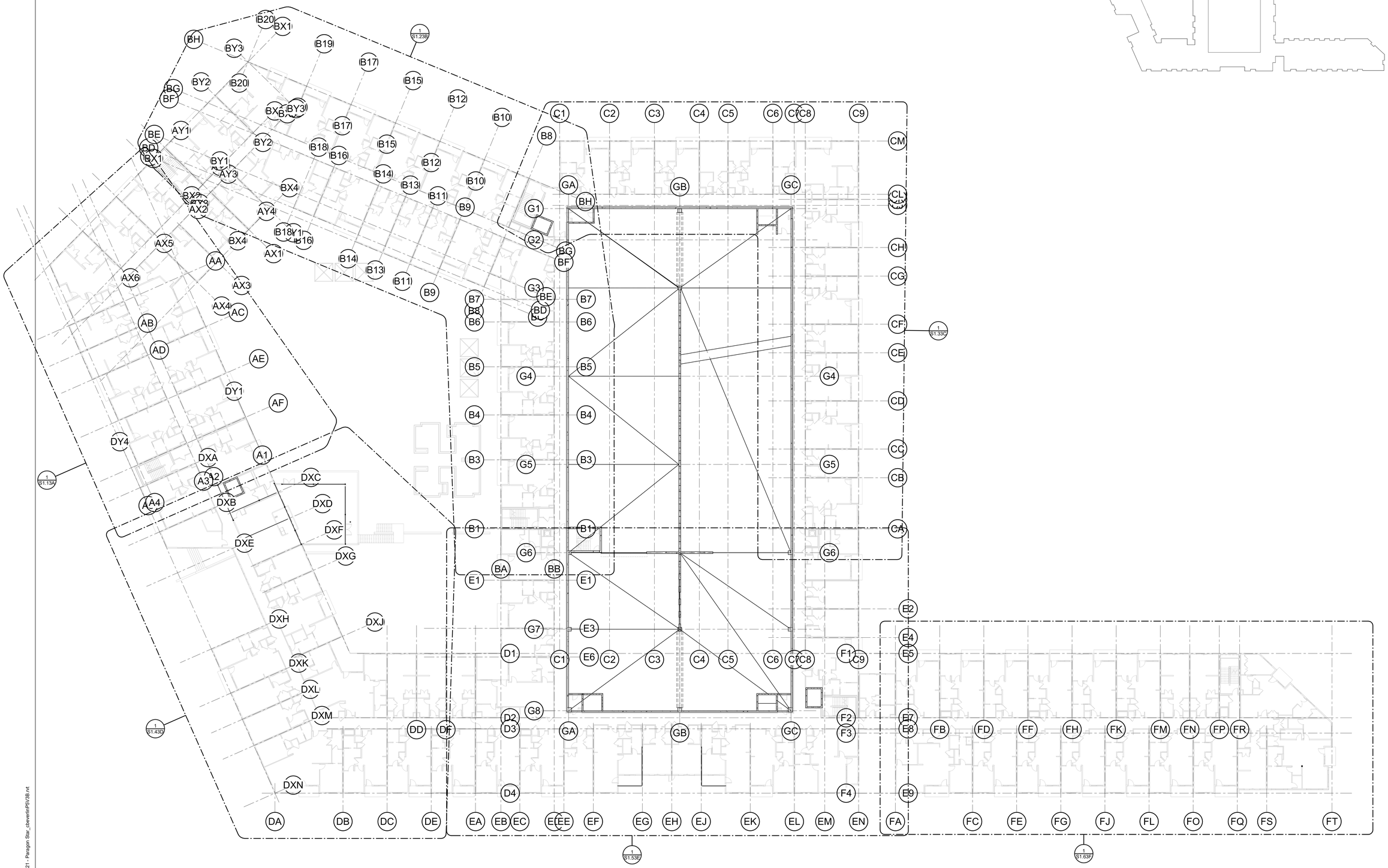
SHEET TITLE

SECOND FLOOR FRAMING PLAN

SHEET NUMBER

S1.02



1 3RD FLOOR FRAMING PLAN OVERALL

1" = 20'-0"

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PARAGON STAR NORTH VILLAGE

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012503
1-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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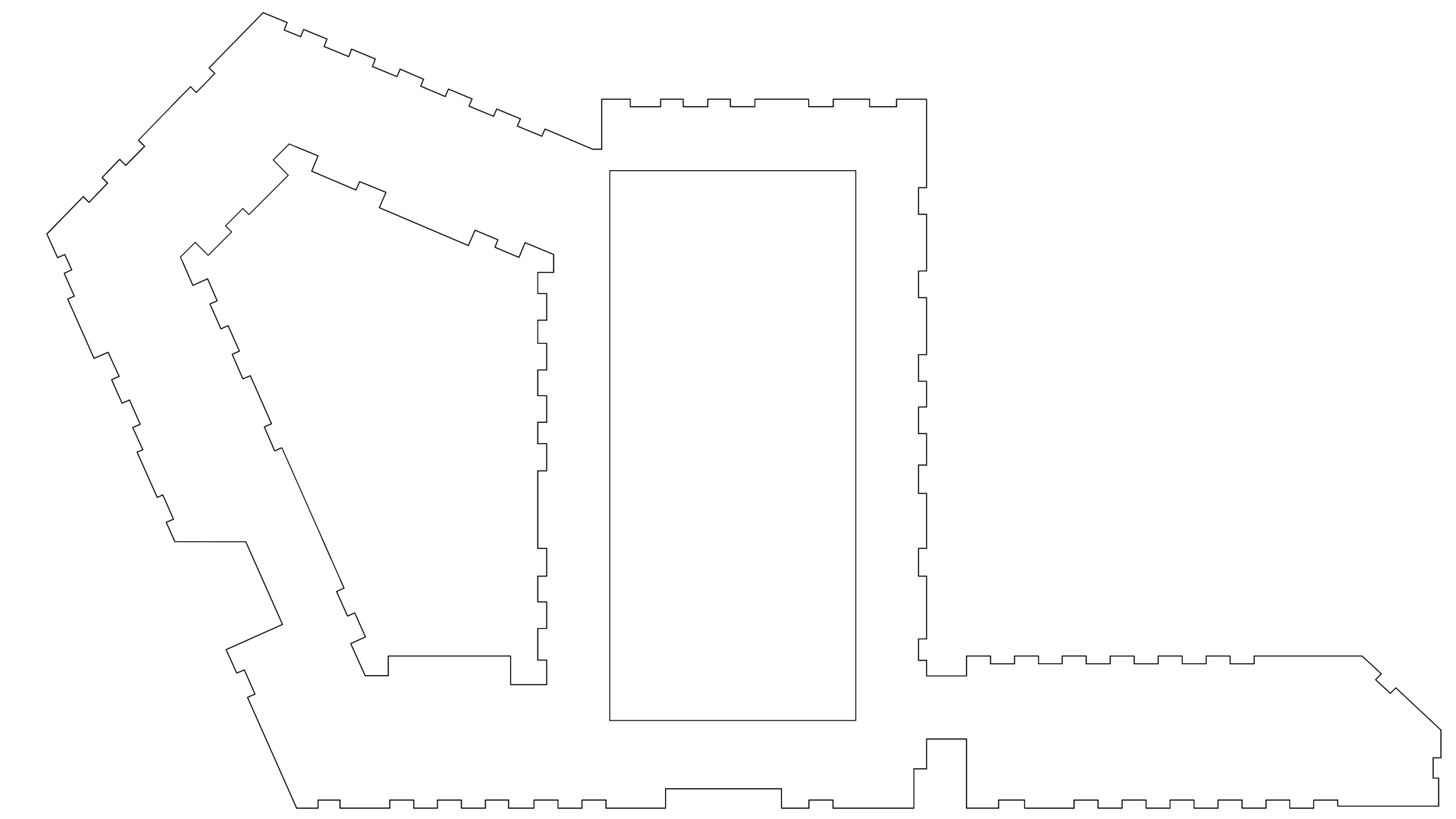
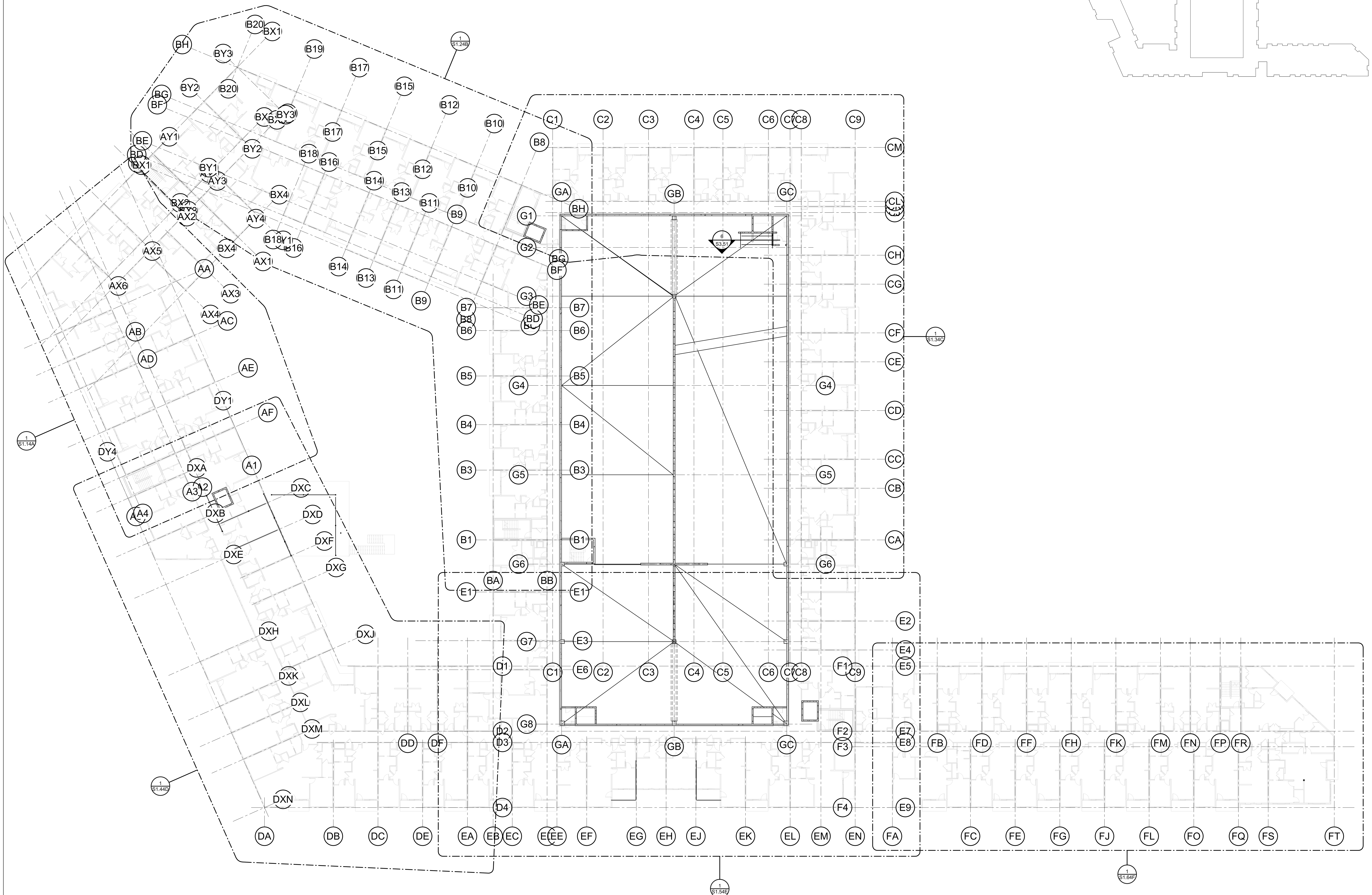
SHEET TITLE

THIRD FLOOR FRAMING PLAN

SHEET NUMBER

S1.03





1 4TH FLOOR FRAMING PLAN OVERALL

1" = 20'-0"

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PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012593
PROFESSIONAL ENGINEER
7-22-22

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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SHEET TITLE

FOURTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.04

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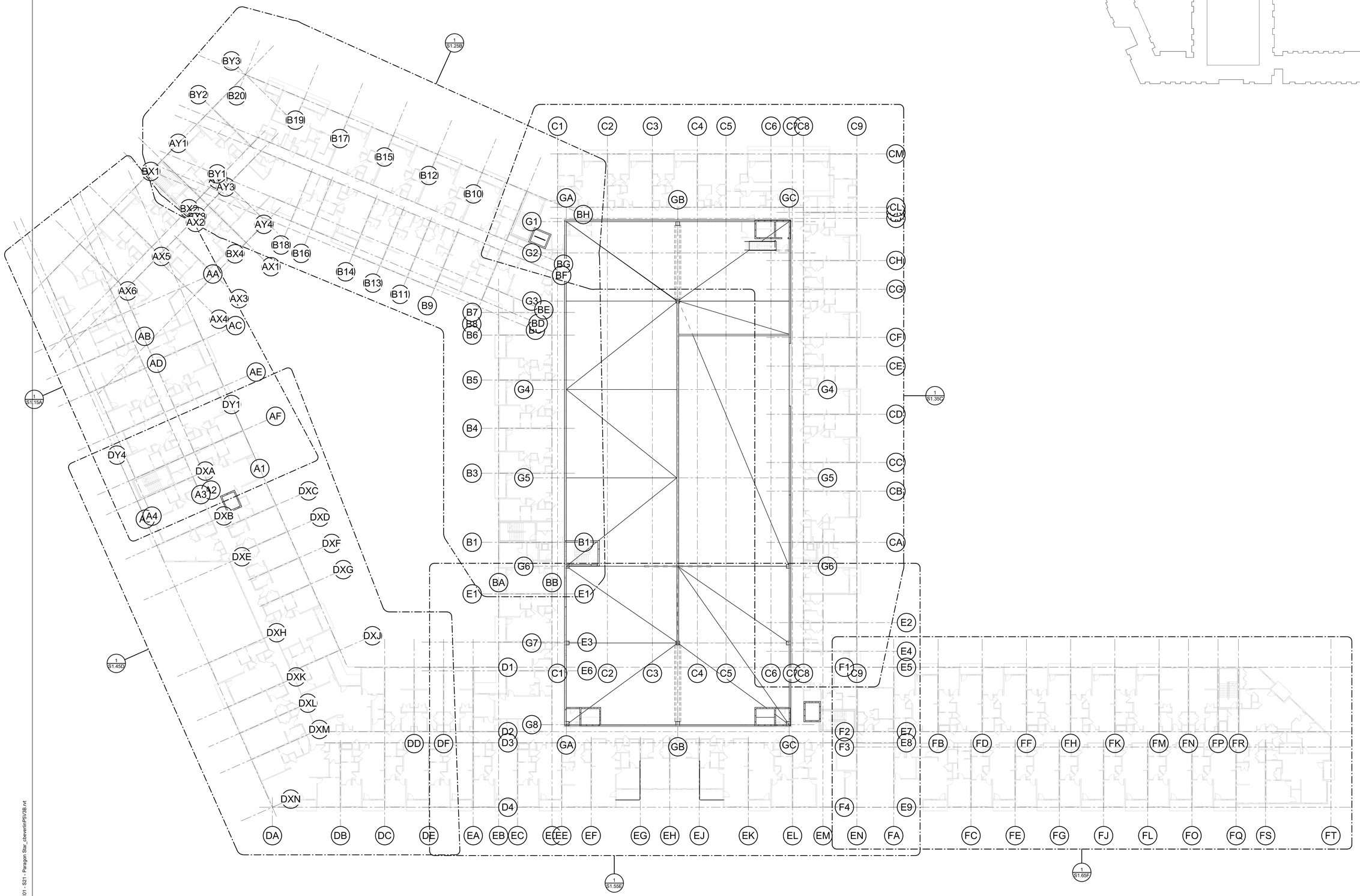

1 5TH FLOOR FRAMING PLAN OVERALL

1" = 20'-0"

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PARAGON STAR NORTH VILLAGE

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PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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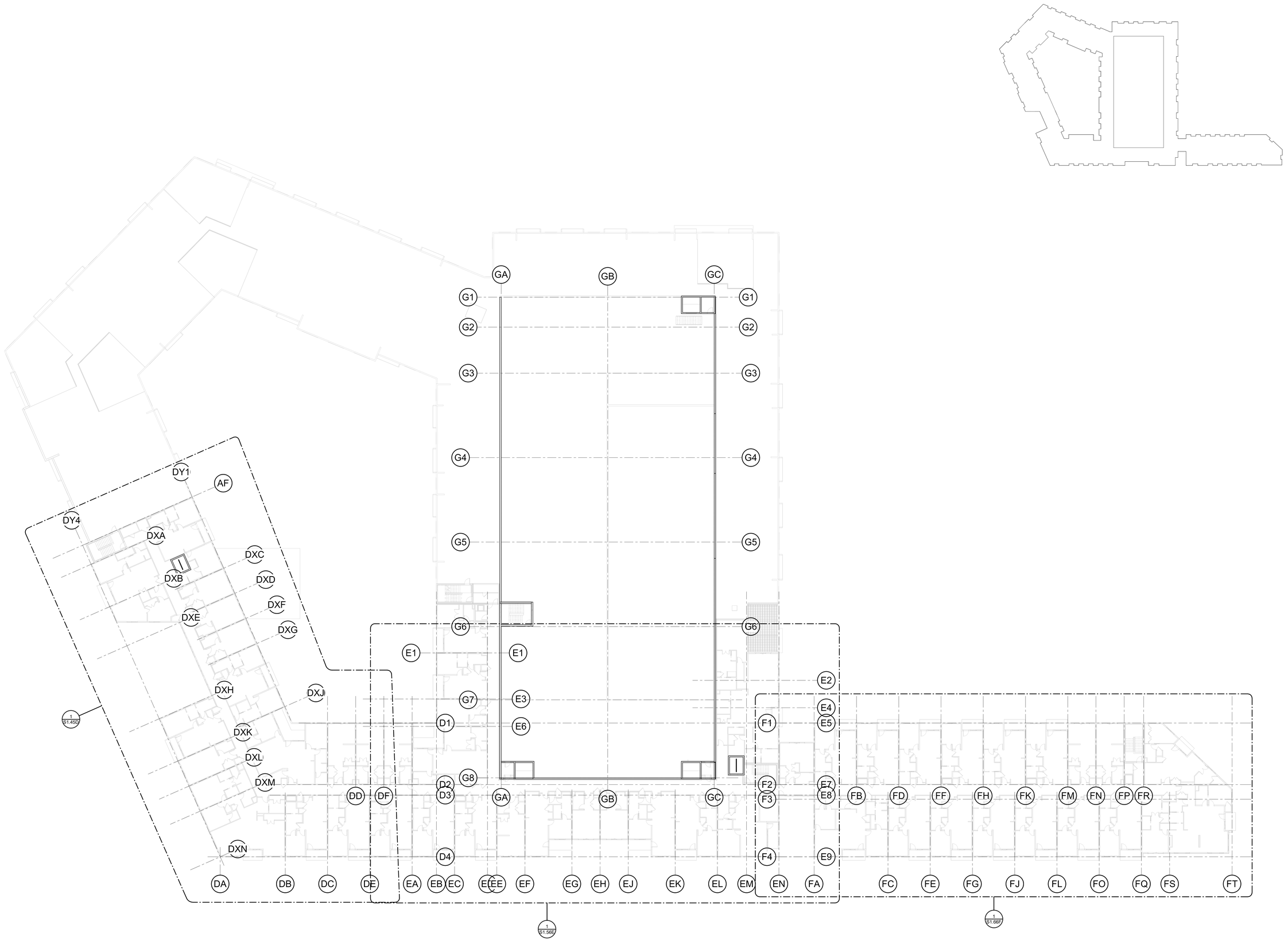
SHEET TITLE

FIFTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.05



1 5TH FLOOR FRAMING PLAN OVERALL
1" = 20'-0"

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paragon star

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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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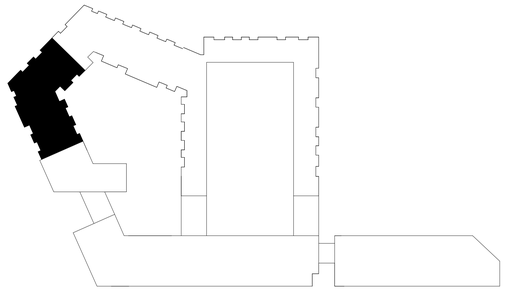
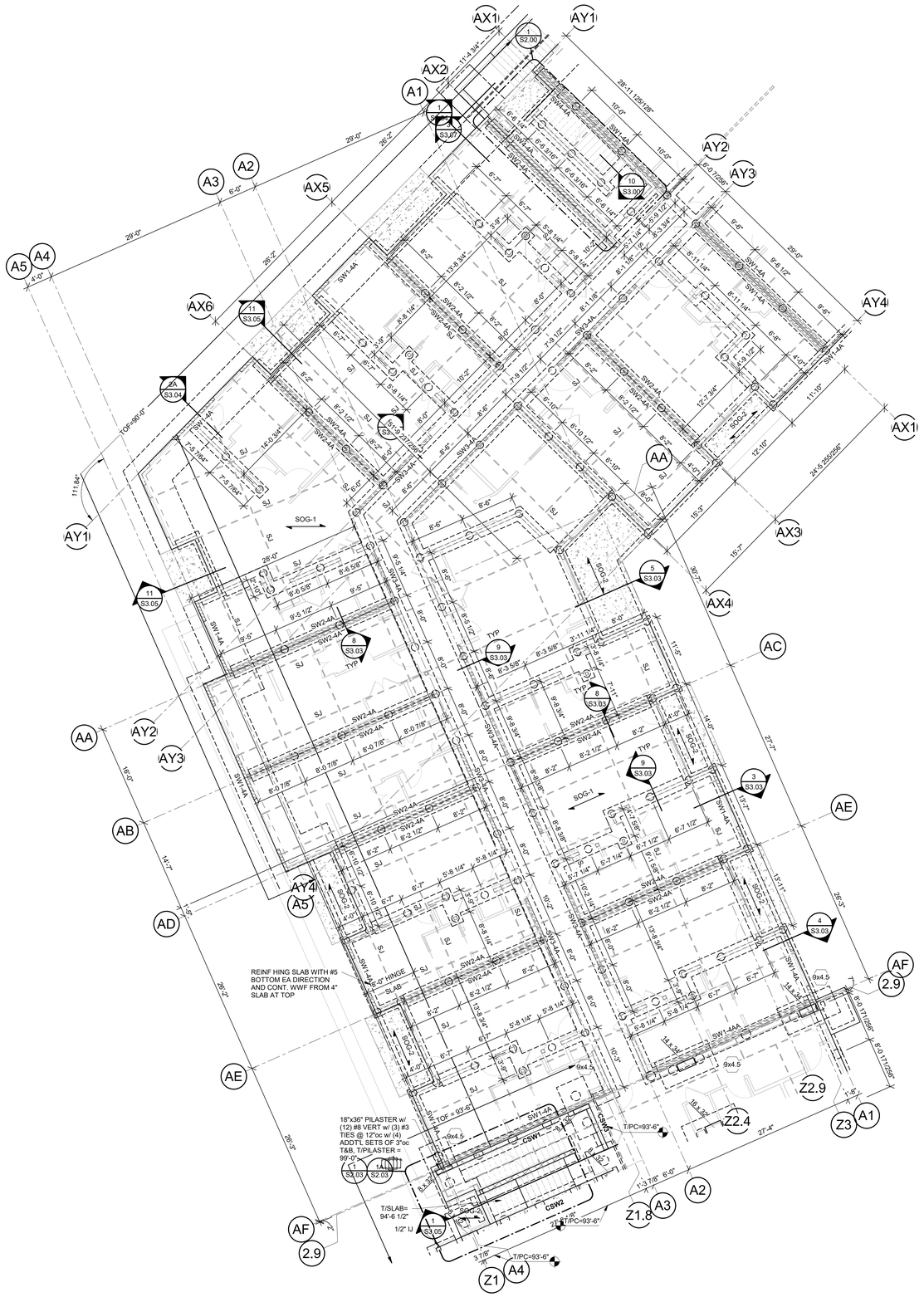
SHEET TITLE

ROOF FRAMING PLAN

SHEET NUMBER

S1.06





1 BUILDING A FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO PILE CAP SCHEDULE ON S3.02
3. REFER TO STRUCTURAL DECK & SLAB SCHEDULE ON SHEET S0.01.
4. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
5. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
6. TOP OF EXTERIOR FOOTINGS = 99'-0", UNO
7. TOP OF INTERIOR PILE CAPS = 98'-6" UNO
8. REFER TO FOOTING SCHEDULE ON S0.01.
9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
10. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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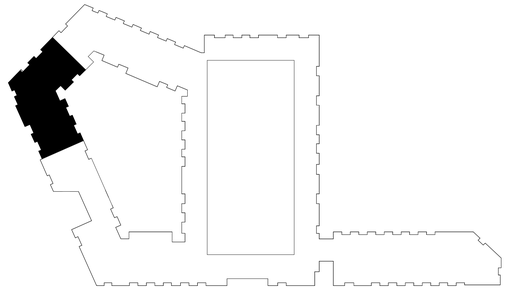
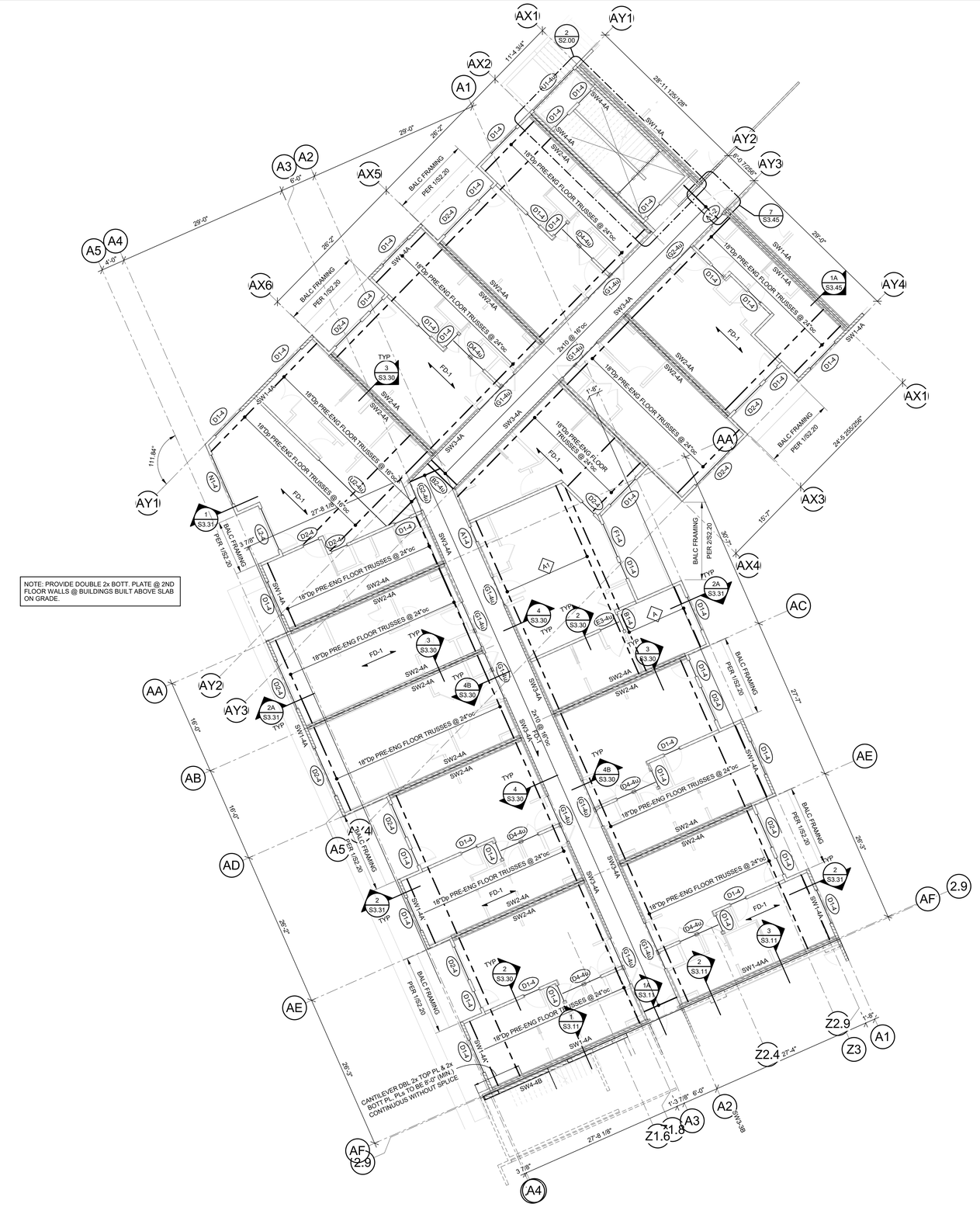
SHEET TITLE

BUILDING A FOUNDATION PLAN

SHEET NUMBER

S1.11A





1 BUILDING A SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. [ ] - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

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LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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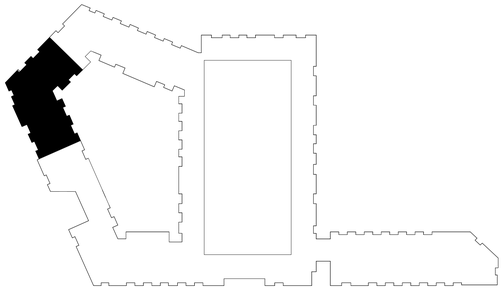
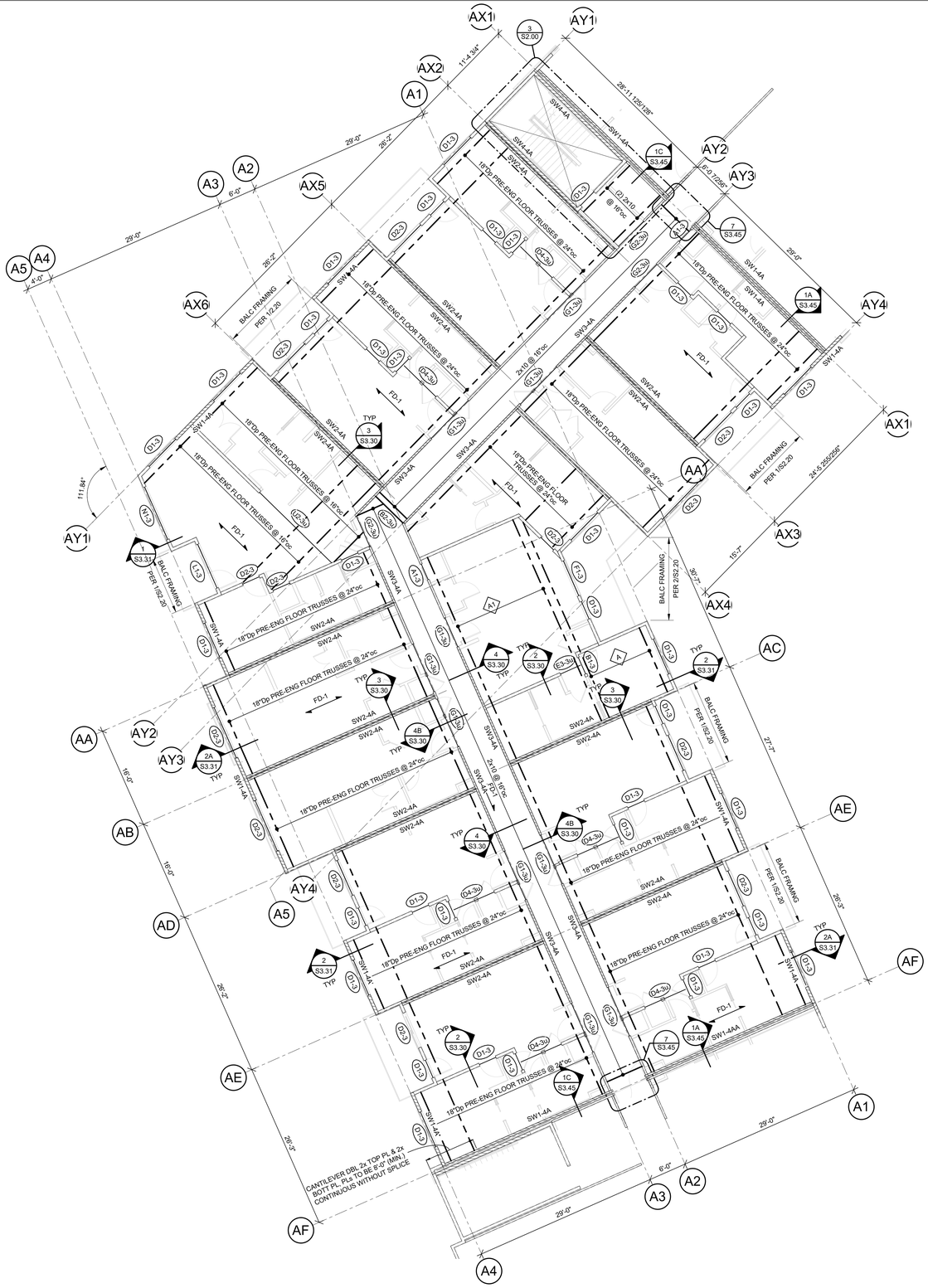
SHEET TITLE

BUILDING A SECOND FLOOR FRAMING PLAN

SHEET NUMBER

S1.12A





1 BUILDING A THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. ▭ - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
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REVISIONS

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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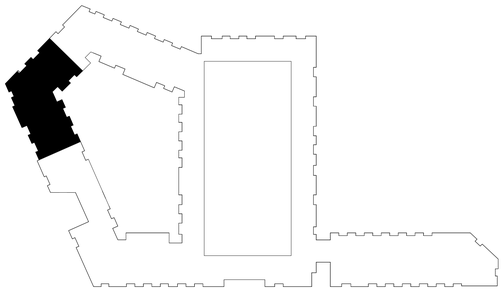
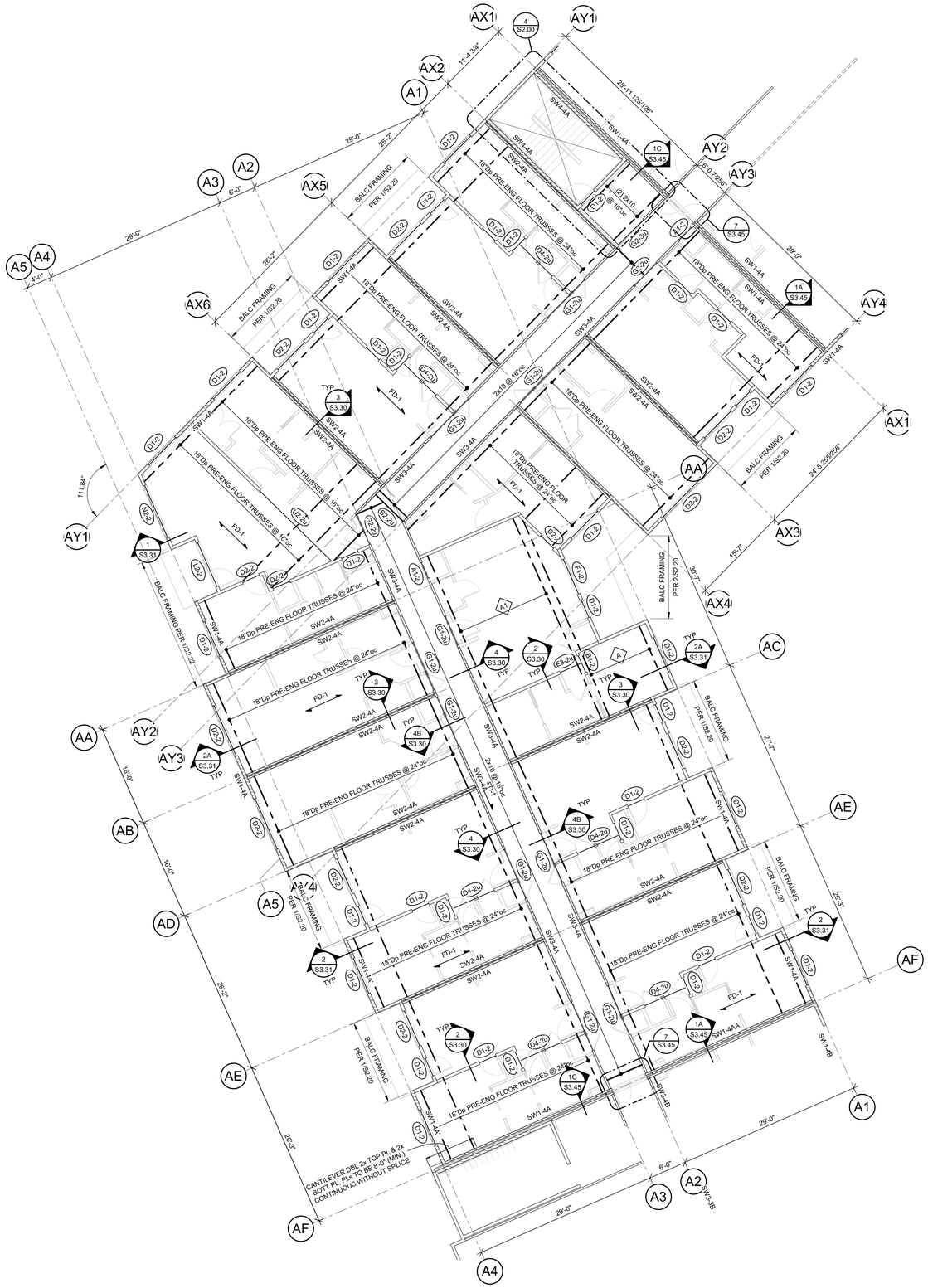
SHEET TITLE

BUILDING A THIRD FLOOR FRAMING PLAN

SHEET NUMBER

S1.13A





1 BUILDING A FOURTH FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. ▭ - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
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REVISIONS

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3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012503
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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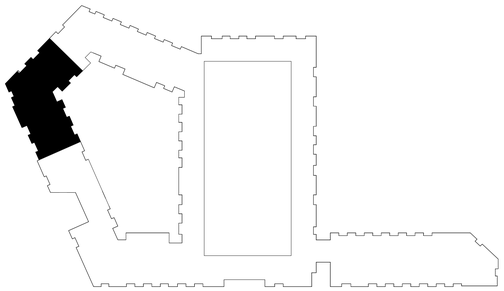
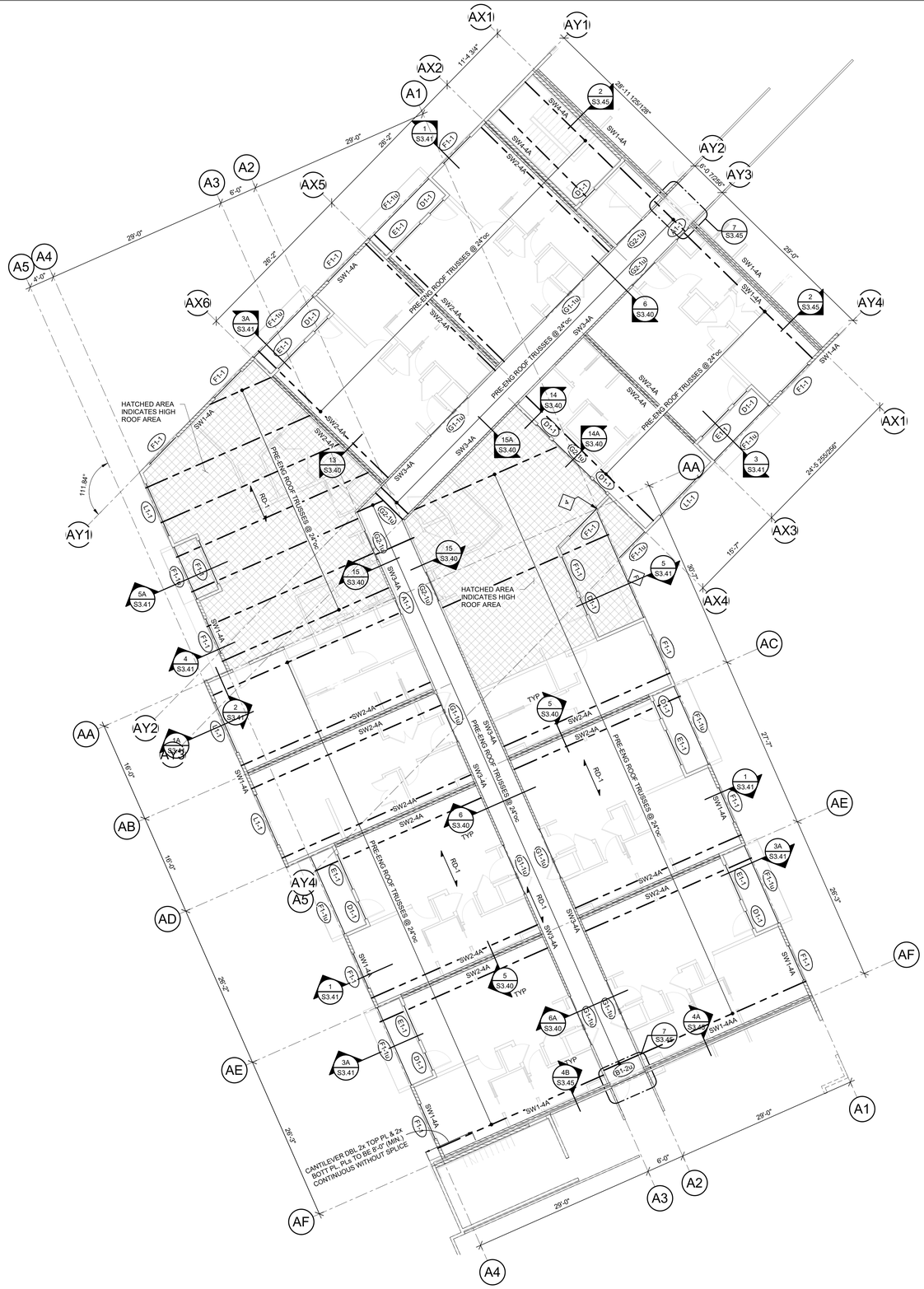
SHEET TITLE

BUILDING A FOURTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.14A





1 BUILDING A ROOF FRAMING PLAN

1/8" = 1'-0"

WOOD ROOF FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. PROVIDE (3) STUD (MINIMUM) ALIGNED UNDER EACH END OF GIRDER TRUSS (CONTINUOUS FOUNDATION) - FINAL QUANTITY TO MATCH NUMBER OF PLIES OF GIRDER TRUSS. PROVIDE SIMPSON LSTA-STYLE HOLDOWN AT EACH END OF GIRDER TRUSS.
7. REFER TO S3.40-SERIES DRAWINGS FOR ADDITIONAL ROOF FRAMING DETAILS NOT INDICATED HERE.
8. PROVIDE UNIFORM UPLIFT SCREWS AT UPPER FLOOR PER DETAILS 2, 2A, 3, 3A, 3B, 4 AND 5 ON SHEET S0.20.
9. PRE-ENGINEERED TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTUAL DRAWINGS.
10. ▨ INDICATES AREA ON ROOF THAT IS REQ'D TO BE DESIGNED FOR MEP EQUIPMENT ZONE PER GENERAL NOTE "2.B" ON SHEET S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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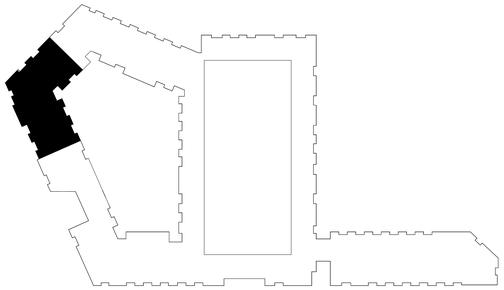
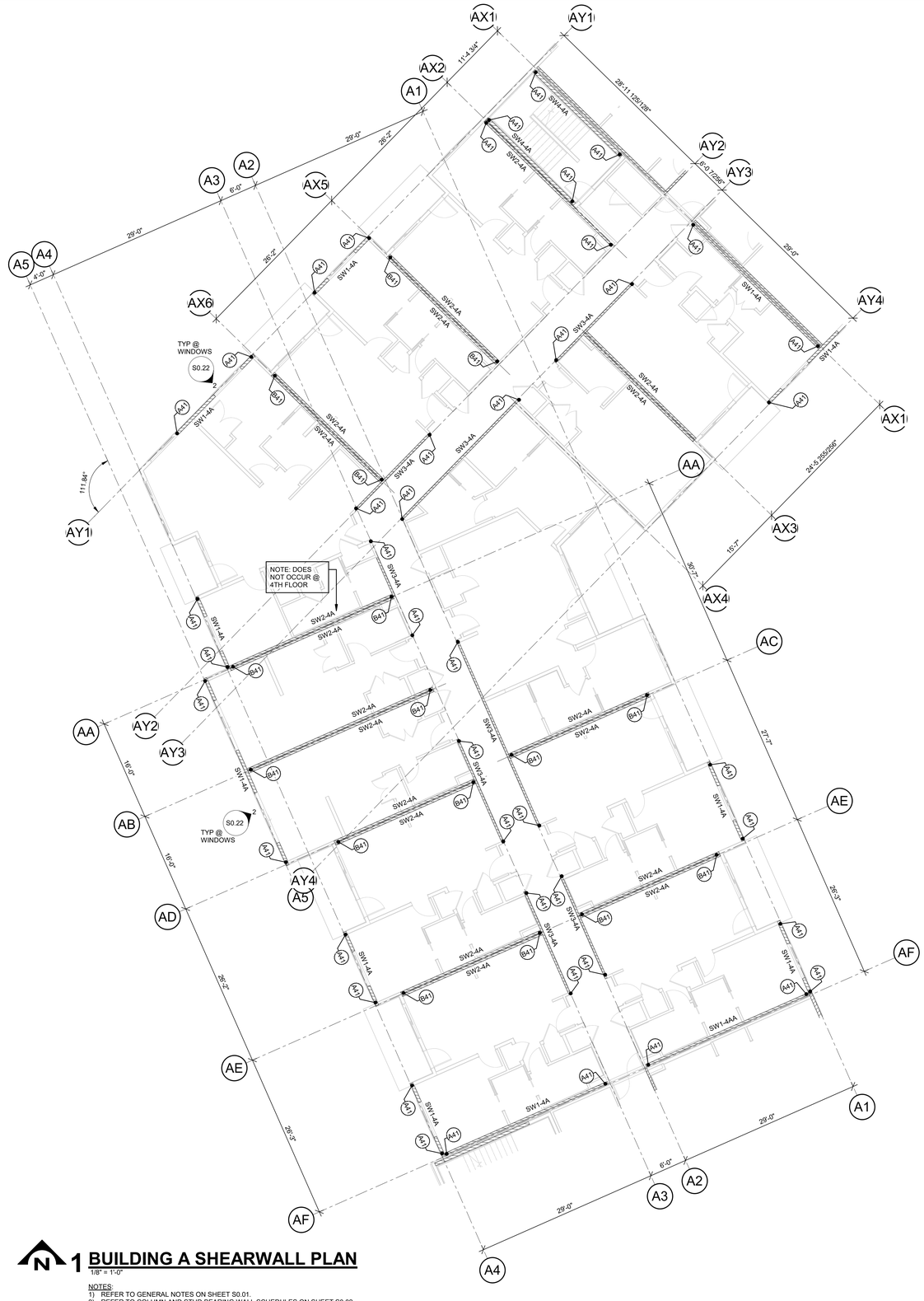
SHEET TITLE

BUILDING A ROOF FRAMING PLAN

SHEET NUMBER

S1.15A

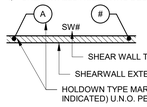




N 1 **BUILDING A SHEARWALL PLAN**

1/8" = 1'-0"

NOTES:
1) REFER TO GENERAL NOTES ON SHEET S0.01.
2) REFER TO COLUMN AND STUD BEARING WALL SCHEDULES ON SHEET S0.02.
3) REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.03.
4) SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:



5) ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS A STRUCTURAL SHEARWALL SHALL BE SHEATHED w/ 7/16" OSB w/ 8d NAILS @ 6"oc EDGES @ 12"oc FIELD.
6) REFER TO DETAILS 15 THRU 15D ON S0.20 FOR SILL PLATE AND RIM BOARD ATTACHMENT AT EXTENTS OF SHEARWALLS.
7) ADDITIONAL SHEARWALL & HOLDOWN INFORMATION FOR THE CLUB AREA, 5TH FLOOR OVER THE CLUB AND EAST TOWER PER S1.17C AND S1.16E

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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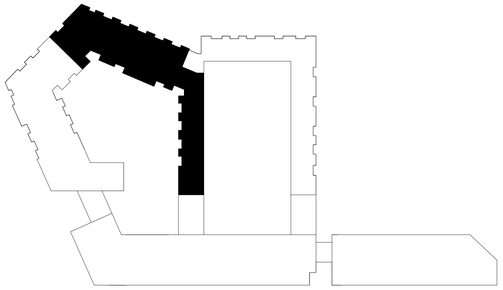
SHEET TITLE

BUILDING A SHEARWALL PLAN

SHEET NUMBER

S1.16A



1 BUILDING B FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO PILE CAP SCHEDULE ON S3.02
3. REFER TO STRUCTURAL DECK & SLAB SCHEDULE ON SHEET S0.01.
4. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
5. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
6. TOP OF EXTERIOR FOOTINGS = 99'-0", UNO
7. TOP OF INTERIOR PILE CAPS = 98'-6" UNO
8. REFER TO FOOTING SCHEDULE ON S0.01.
9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
10. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.

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NORTH VILLAGE

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PROFESSIONAL ENGINEER

PROJECT TEAM

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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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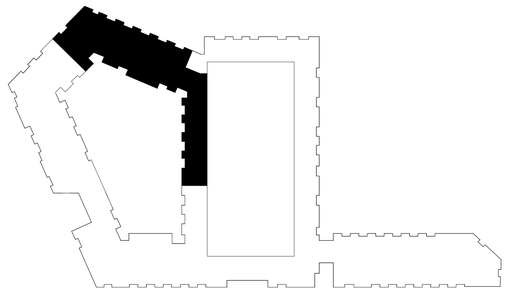
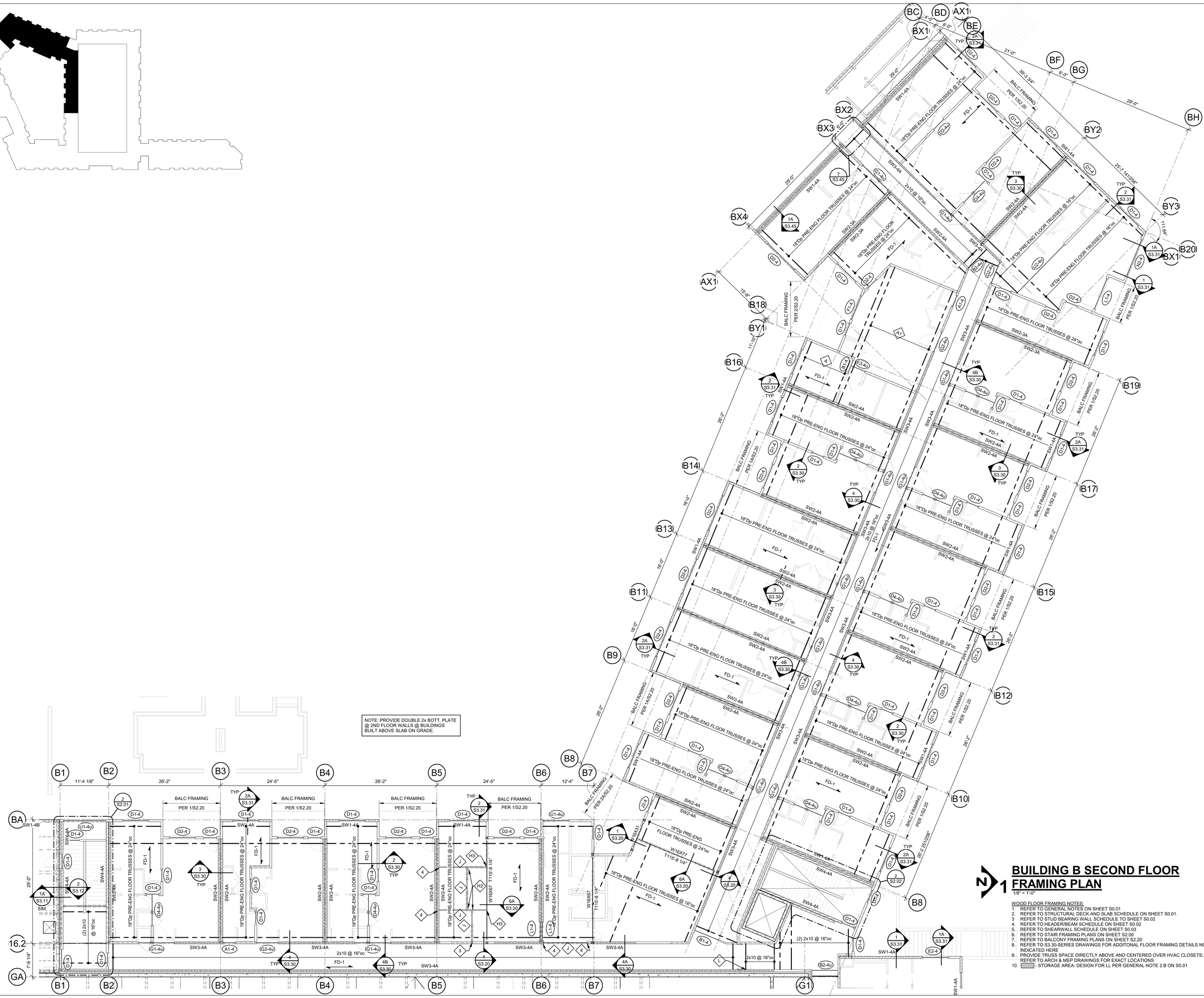
SHEET TITLE

BUILDING B
FOUNDATION
PLAN

SHEET NUMBER

S1.21B





BUILDING B SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. [ ] - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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PARAGON STAR NORTH VILLAGE

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LEE'S SUMMIT, MO 64081

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CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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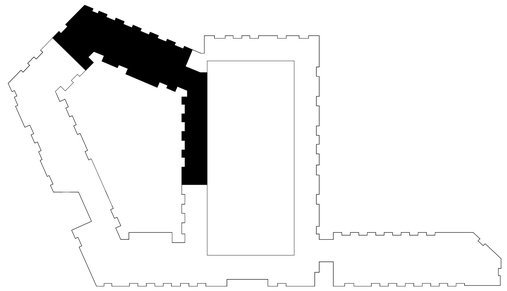
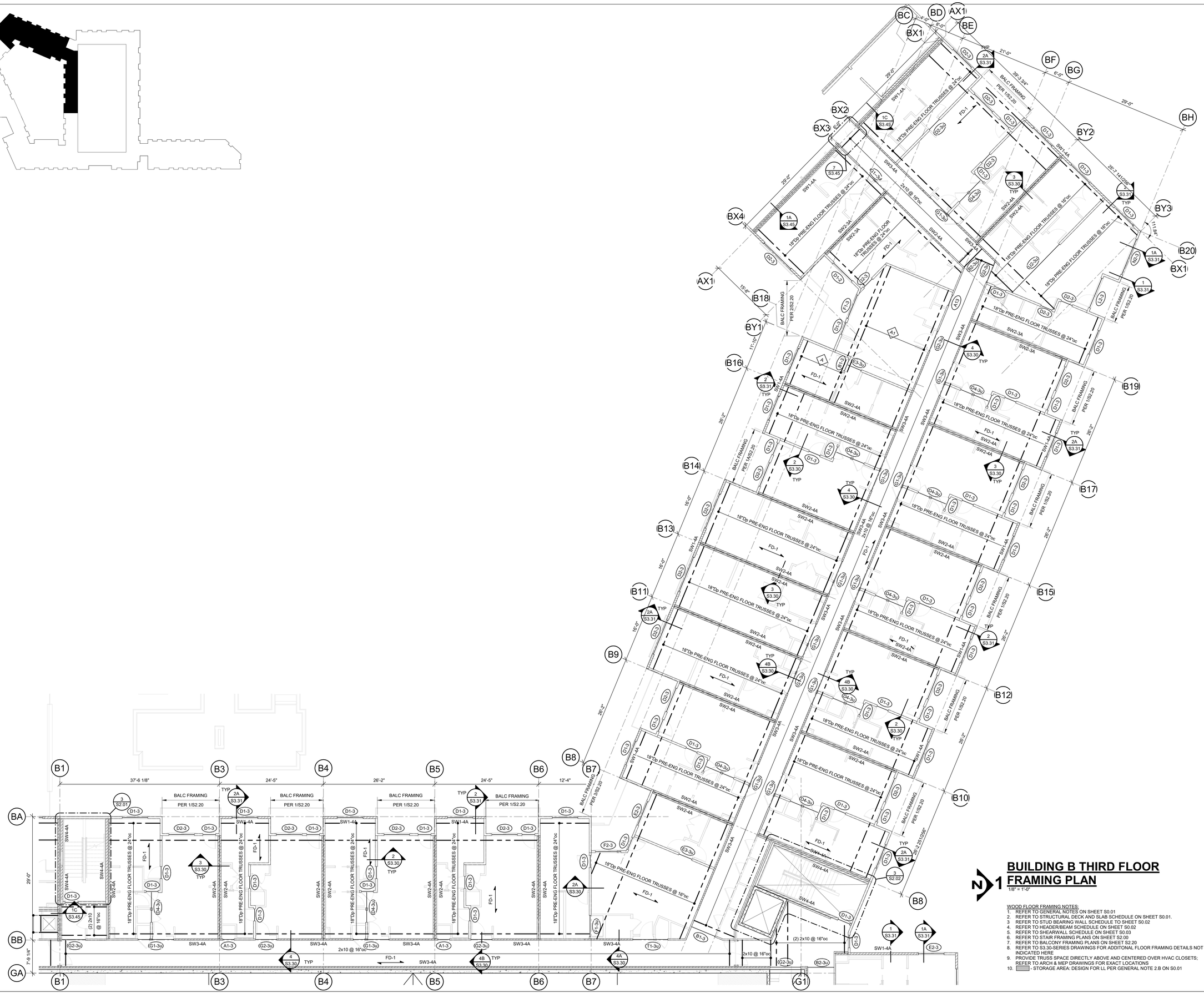
SHEET TITLE

BUILDING B SECOND FLOOR FRAMING PLAN

SHEET NUMBER

S1.22B





BUILDING B THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. ▨ - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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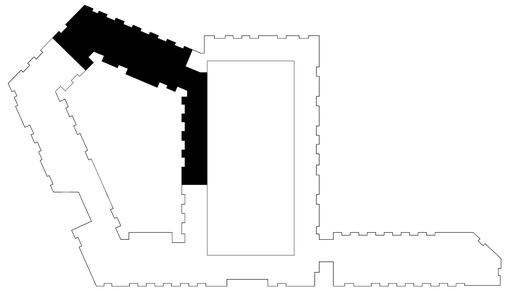
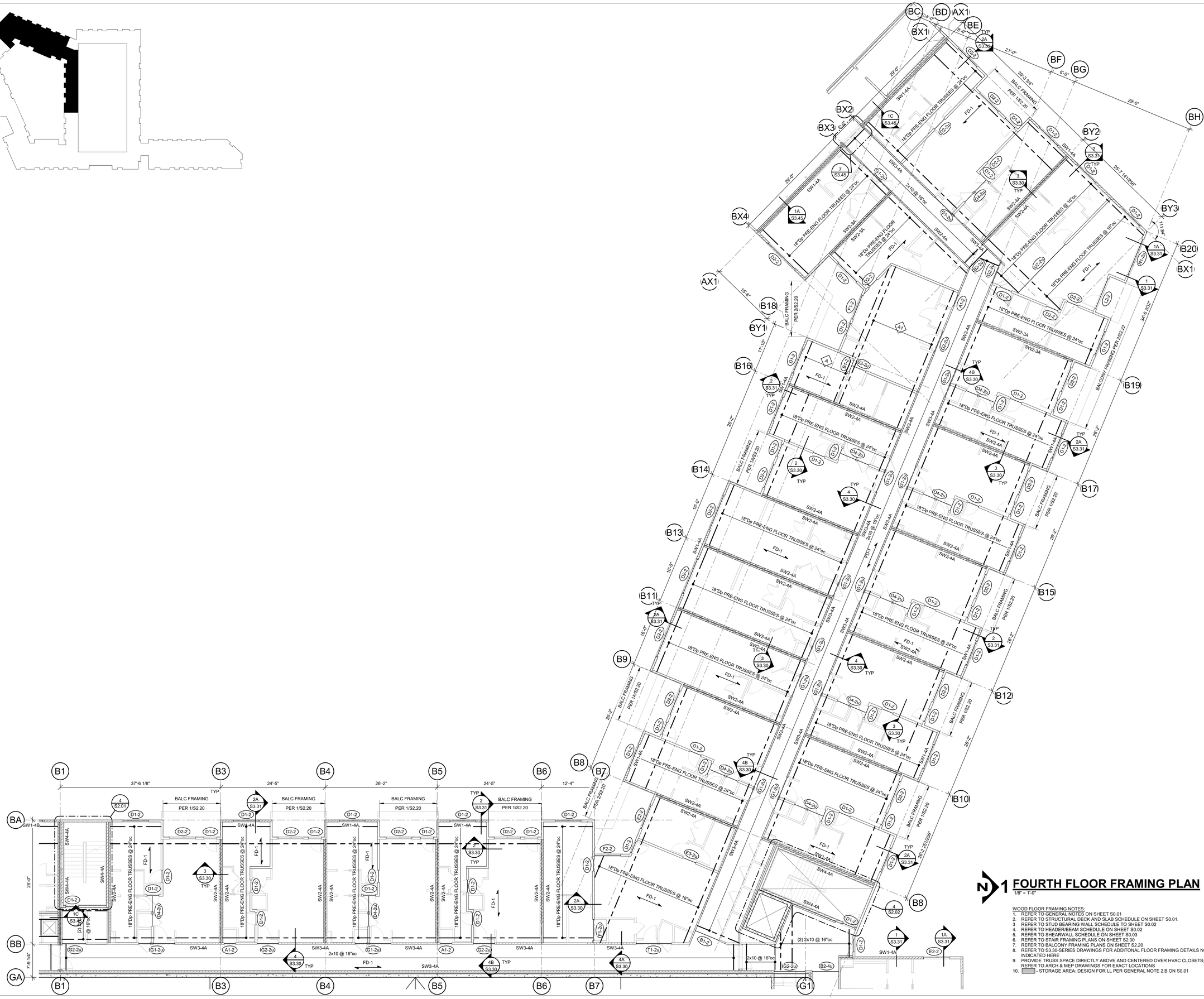
SHEET TITLE

BUILDING B THIRD FLOOR FRAMING PLAN

SHEET NUMBER

S1.23B





WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. [ ] - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
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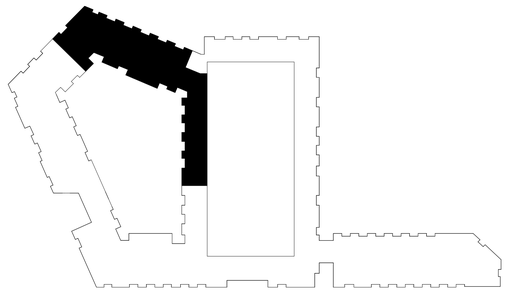
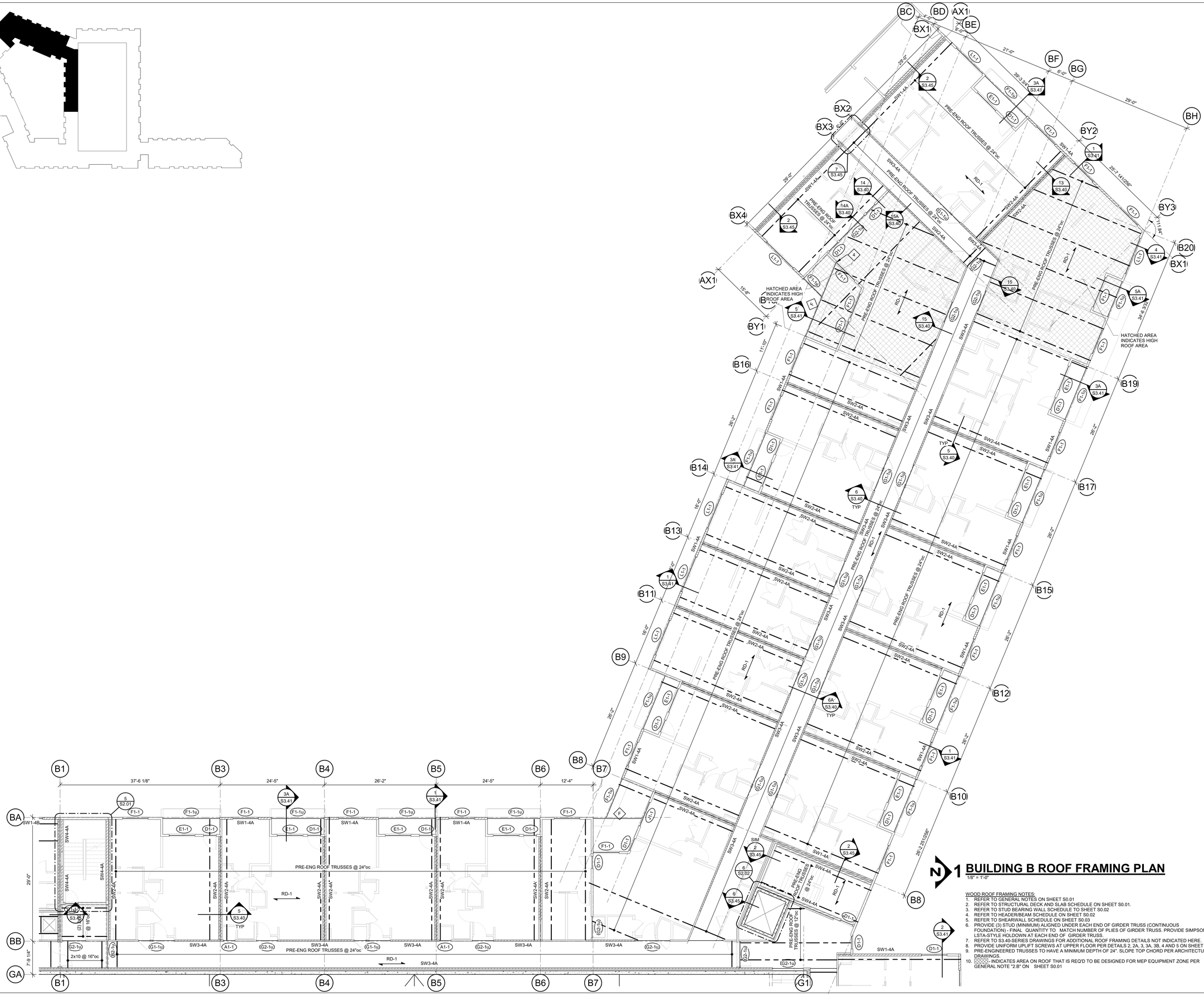
SHEET TITLE

BUILDING B
FOURTH FLOOR
FRAMING PLAN

SHEET NUMBER

S1.24B





1 BUILDING B ROOF FRAMING PLAN

1/8" = 1'-0"

WOOD ROOF FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. PROVIDE (3) STUD (MINIMUM) ALIGNED UNDER EACH END OF GIRDER TRUSS (CONTINUOUS FOUNDATION) - FINAL QUANTITY TO MATCH NUMBER OF PLIES OF GIRDER TRUSS. PROVIDE SIMPSON LSTA-STYLE HOLDOWN AT EACH END OF GIRDER TRUSS.
7. REFER TO S3.40-SERIES DRAWINGS FOR ADDITIONAL ROOF FRAMING DETAILS NOT INDICATED HERE.
8. PROVIDE UNIFORM UPLIFT SCREWS AT UPPER FLOOR PER DETAILS 2, 2A, 3, 3A, 3B, 4 AND 5 ON SHEET S0.20.
9. PRE-ENGINEERED TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTUAL DRAWINGS.
10. ▨ - INDICATES AREA ON ROOF THAT IS REQ'D TO BE DESIGNED FOR MEP EQUIPMENT ZONE PER GENERAL NOTE "2.B" ON SHEET S0.01

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PARAGON STAR NORTH VILLAGE

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1.22.23
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PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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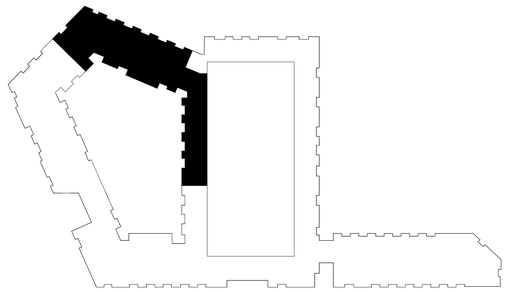
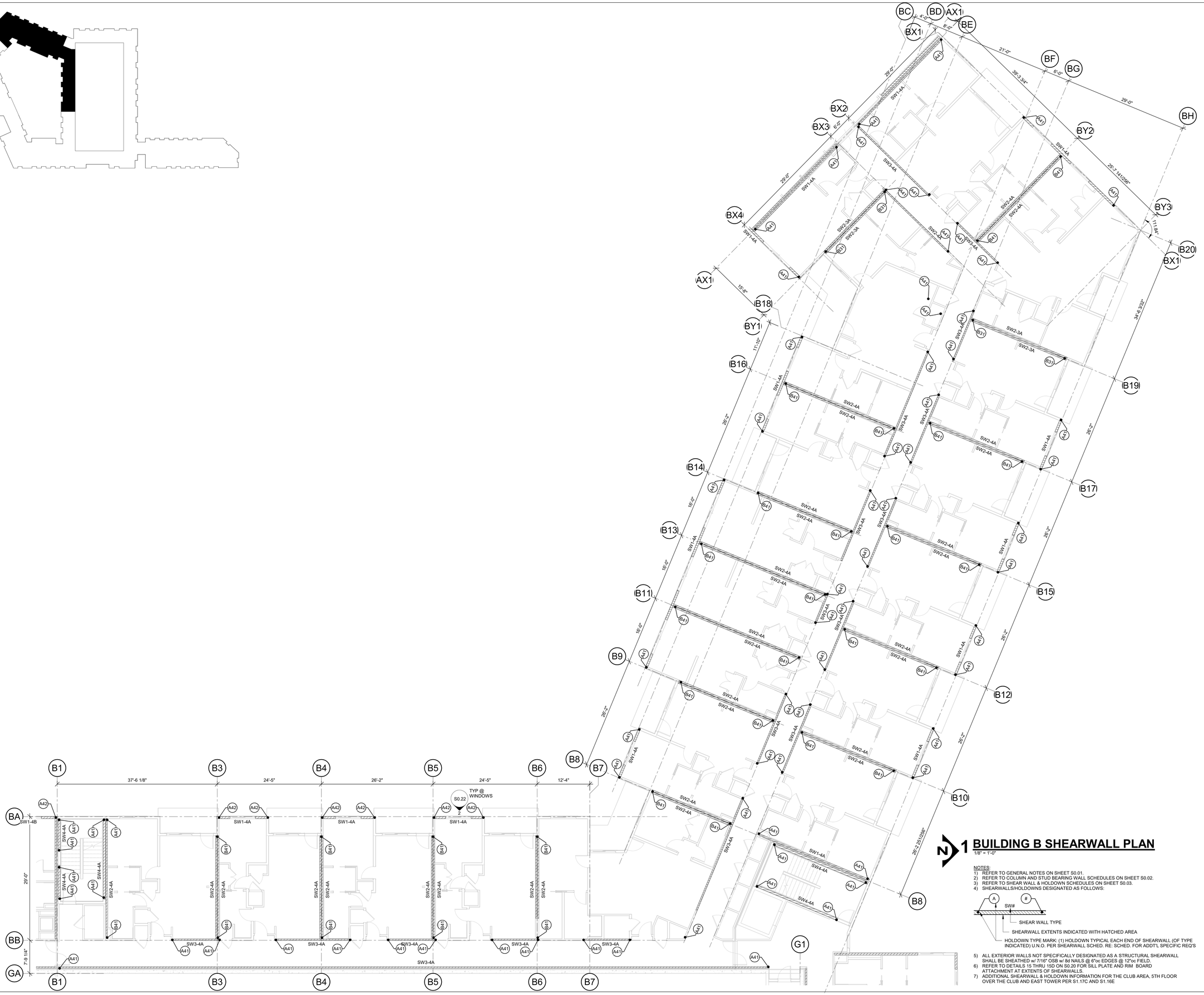
SHEET TITLE

BUILDING B ROOF FRAMING PLAN

SHEET NUMBER

S1.25B





1 BUILDING B SHEARWALL PLAN

1/8" = 1'-0"

NOTES:
1) REFER TO GENERAL NOTES ON SHEET S0.01.
2) REFER TO COLUMN AND STUD BEARING WALL SCHEDULES ON SHEET S0.02.
3) REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.03.
4) SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:

5) ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS A STRUCTURAL SHEARWALL SHALL BE SHEATHED w/ 7/16" OSB w/ 8d NAILS @ 6"oc EDGES @ 12"oc FIELD.
6) REFER TO DETAILS 15 THRU 15D ON S0.20 FOR SILL PLATE AND RIM BOARD ATTACHMENT AT EXTENTS OF SHEARWALLS.
7) ADDITIONAL SHEARWALL & HOLDOWN INFORMATION FOR THE CLUB AREA, 5TH FLOOR OVER THE CLUB AND EAST TOWER PER S1.17C AND S1.16E

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PARAGON STAR NORTH VILLAGE

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REGISTRATION

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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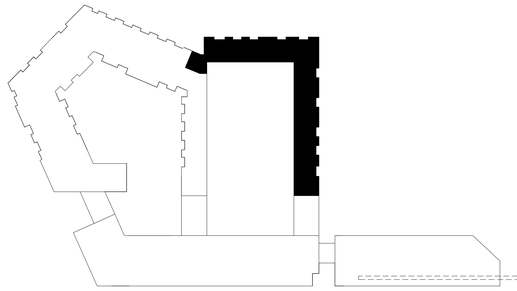
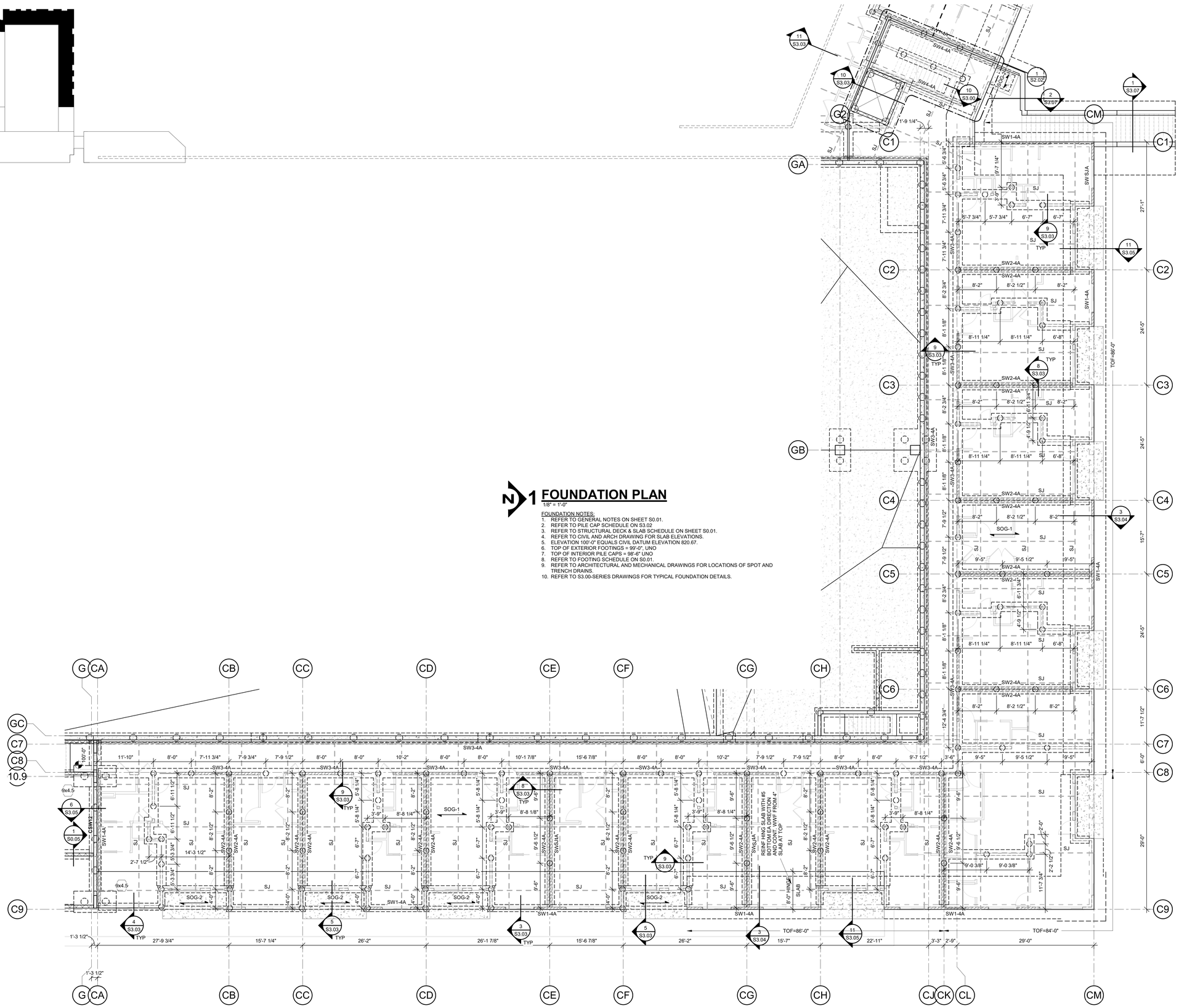
SHEET TITLE

BUILDING B SHEARWALL PLAN

SHEET NUMBER

S1.26B





FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO PILE CAP SCHEDULE ON S3.02
3. REFER TO STRUCTURAL DECK & SLAB SCHEDULE ON SHEET S0.01.
4. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
5. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
6. TOP OF EXTERIOR FOOTINGS = 99'-0", UNO
7. TOP OF INTERIOR PILE CAPS = 98'-6" UNO
8. REFER TO FOOTING SCHEDULE ON S0.01.
9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
10. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.

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Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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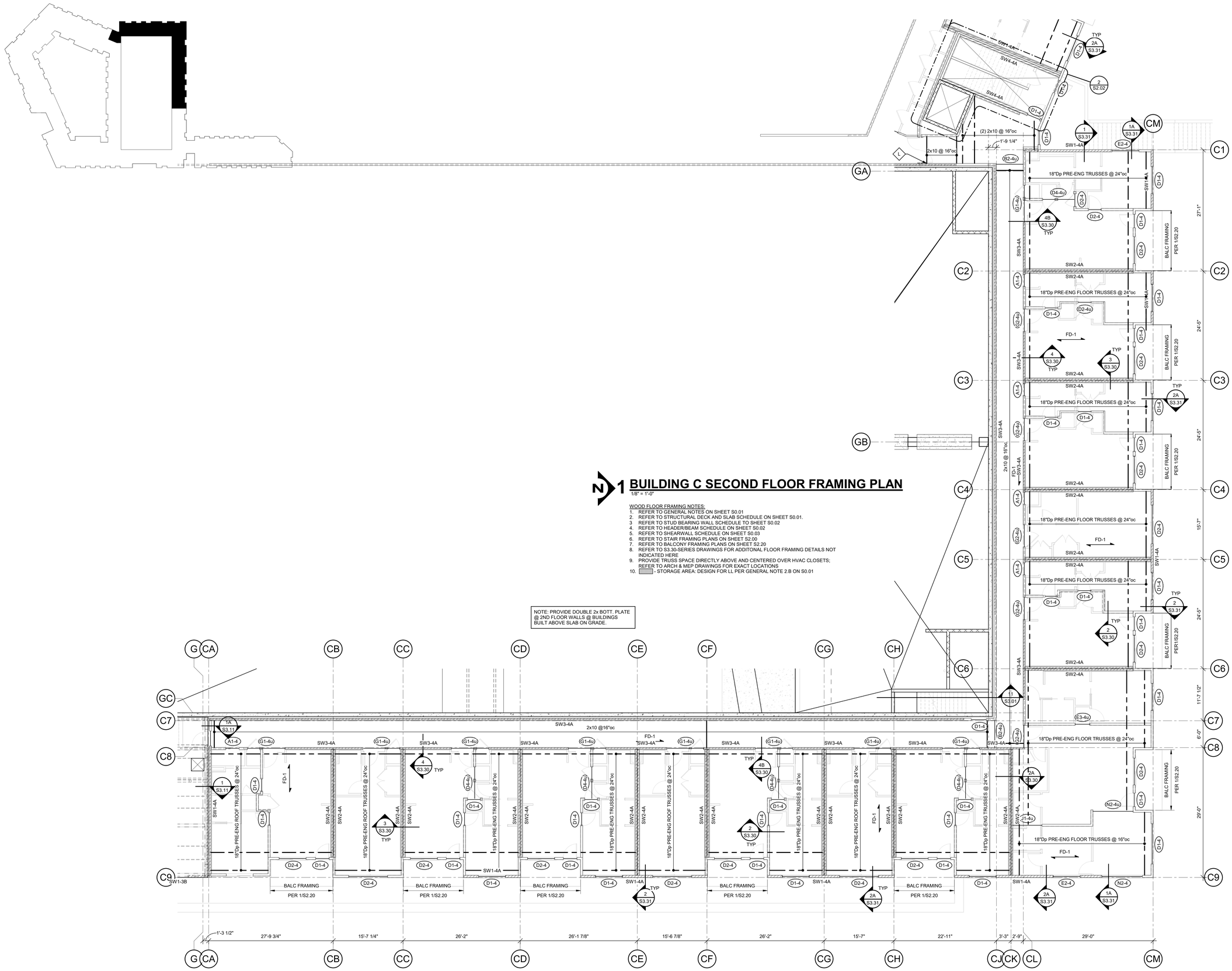
SHEET TITLE

BUILDING C FOUNDATION PLAN

SHEET NUMBER

S1.31C



1 BUILDING C SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. [ ] - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

NOTE: PROVIDE DOUBLE 2x BOTT. PLATE @ 2ND FLOOR WALLS @ BUILDINGS BUILT ABOVE SLAB ON GRADE.

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STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7.22.22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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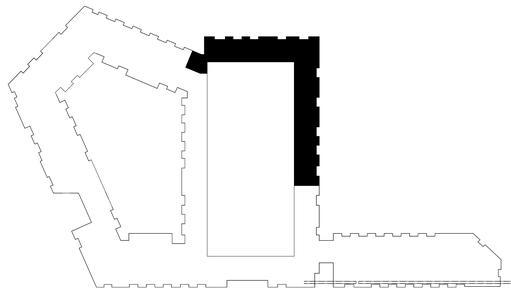
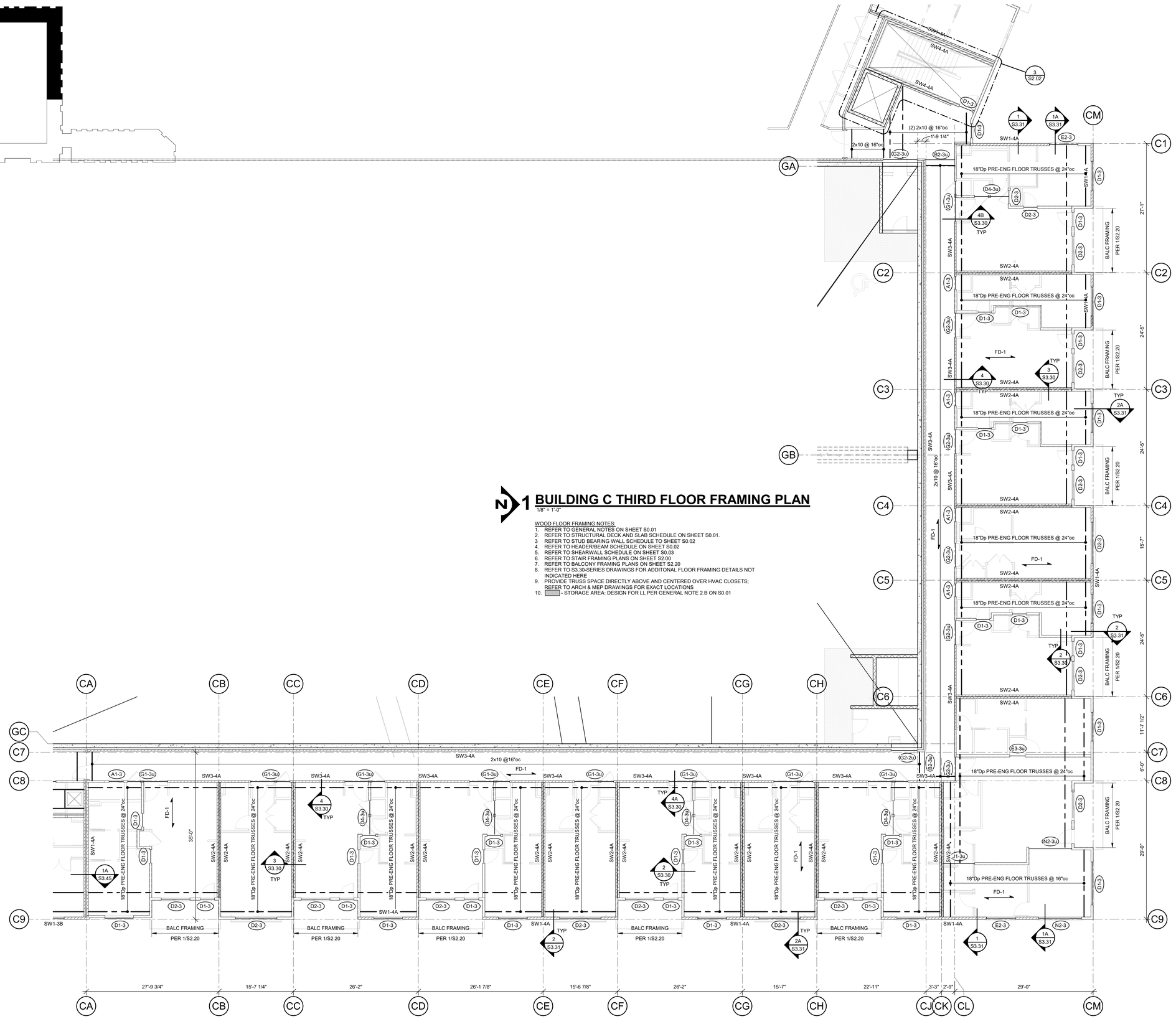
SHEET TITLE

BUILDING C SECOND FLOOR FRAMING PLAN

SHEET NUMBER

S1.32C





1 BUILDING C THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. [ ] - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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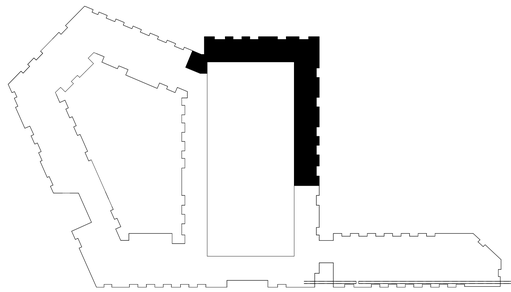
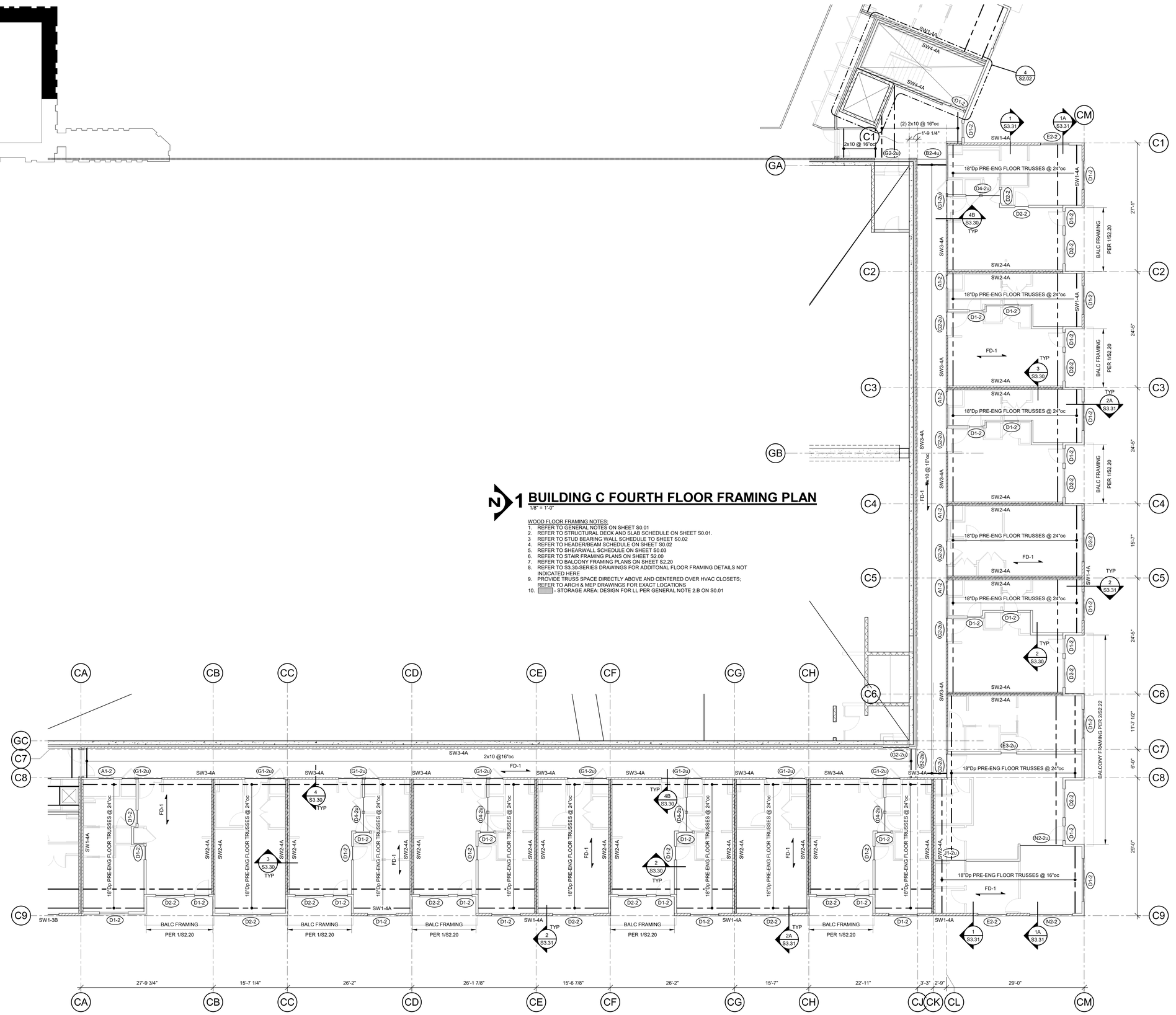
SHEET TITLE

BUILDING C THIRD FLOOR FRAMING PLAN

SHEET NUMBER

S1.33C





1 BUILDING C FOURTH FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
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3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
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10. ▭ - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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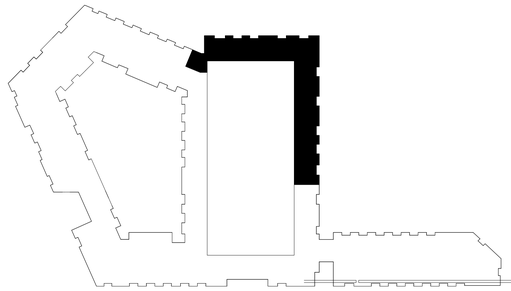
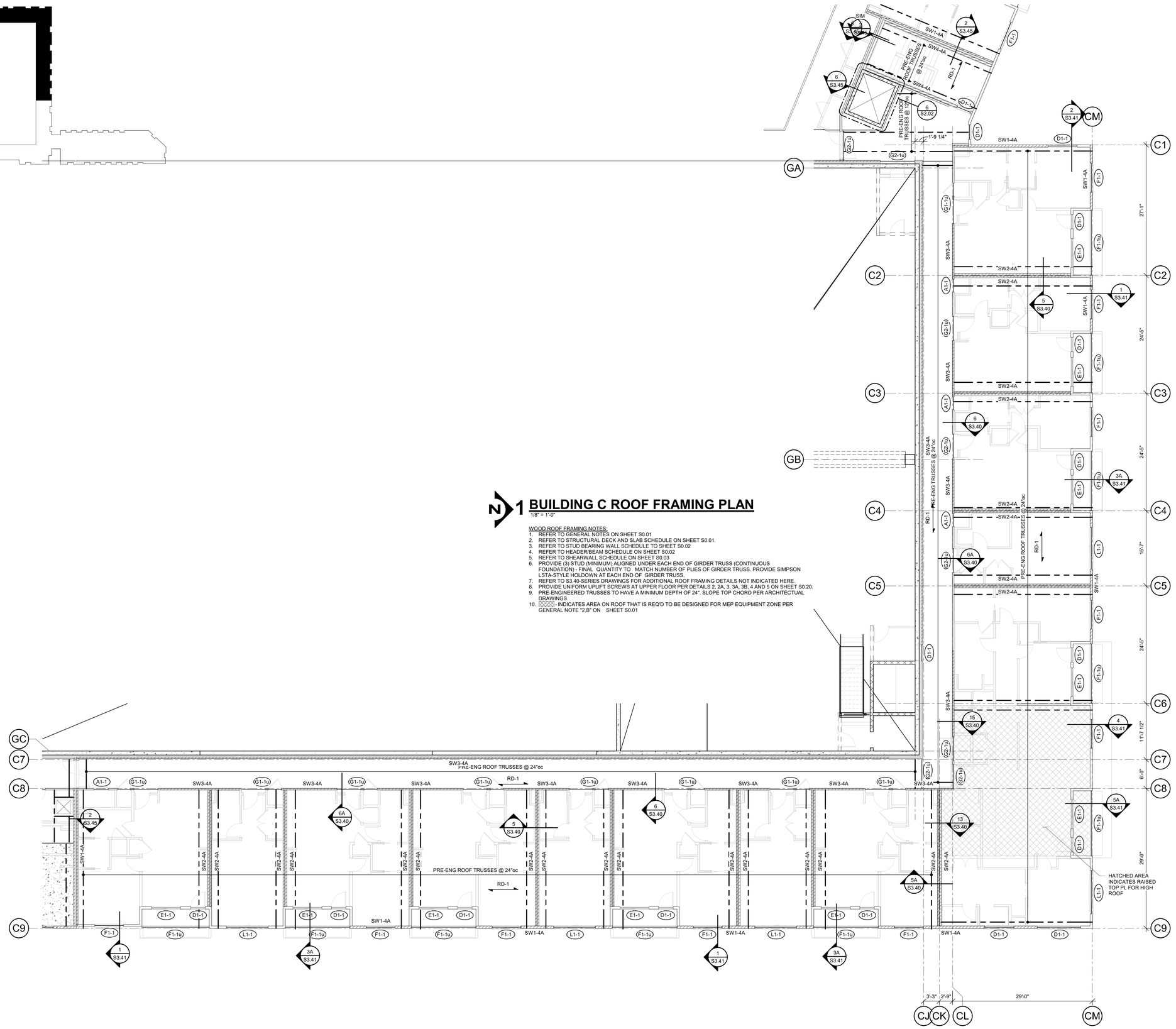
SHEET TITLE

BUILDING C FOURTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.34C





1 BUILDING C ROOF FRAMING PLAN

1/8" = 1'-0"

WOOD ROOF FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
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6. PROVIDE (3) STUD (MINIMUM) ALIGNED UNDER EACH END OF GIRDER TRUSS (CONTINUOUS FOUNDATION) - FINAL QUANTITY TO MATCH NUMBER OF PLIES OF GIRDER TRUSS. PROVIDE SIMPSON LSTA-STYLE HOLDOWN AT EACH END OF GIRDER TRUSS.
7. REFER TO S3.40-SERIES DRAWINGS FOR ADDITIONAL ROOF FRAMING DETAILS NOT INDICATED HERE.
8. PROVIDE UNIFORM UPLIFT SCREWS AT UPPER FLOOR PER DETAILS 2, 2A, 3, 3A, 3B, 4 AND 5 ON SHEET S0.20.
9. PRE-ENGINEERED TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTUAL DRAWINGS.
10. ▨ - INDICATES AREA ON ROOF THAT IS REQ'D TO BE DESIGNED FOR MEP EQUIPMENT ZONE PER GENERAL NOTE "2.B" ON SHEET S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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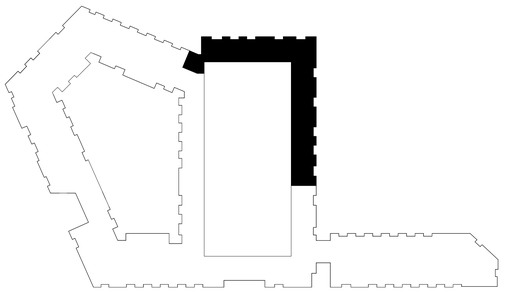
Structural Engineers
Since 1957
816.531.4144
4338 Belleview Ave.
Kansas City, MO 64111
www.bdc-engrs.com

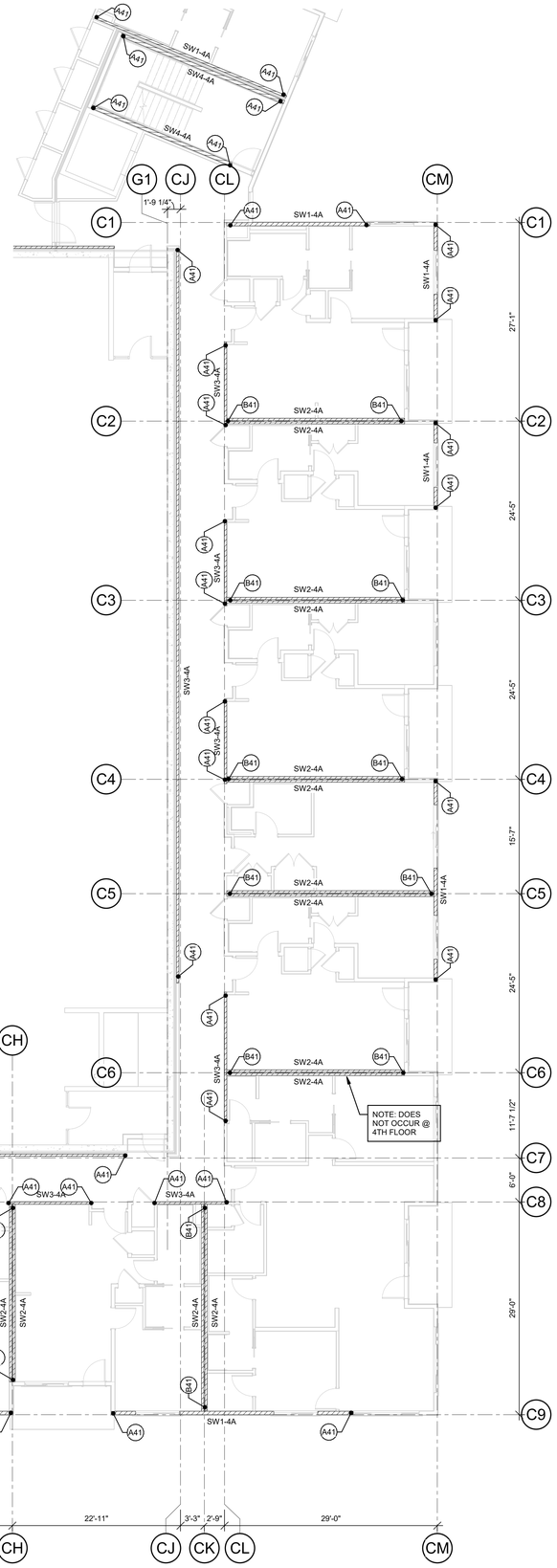
SHEET TITLE

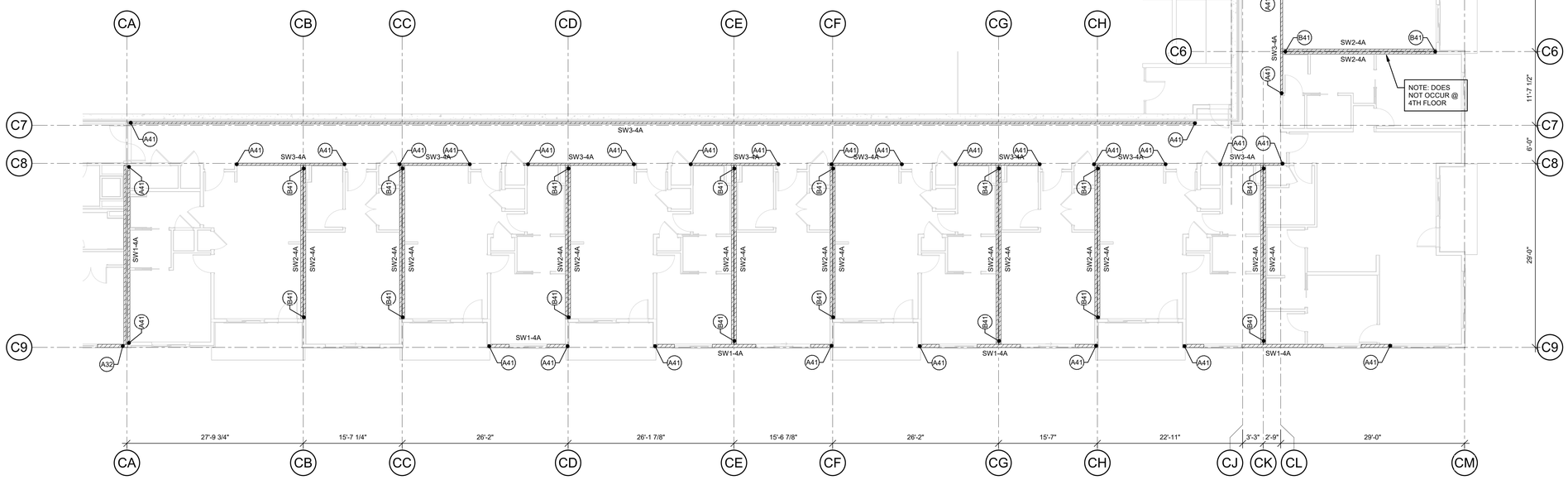
BUILDING C ROOF FRAMING PLAN

SHEET NUMBER

S1.35C







1 BUILDING C SHEARWALL PLAN

1/8" = 1'-0"

NOTES:
1) REFER TO GENERAL NOTES ON SHEET S0.01.
2) REFER TO COLUMN AND STUD BEARING WALL SCHEDULES ON SHEET S0.02.
3) REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.03.
4) SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:

5) ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS A STRUCTURAL SHEARWALL SHALL BE SHEATHED w/ 7/16" OSB w/ 8d NAILS @ 6"oc EDGES @ 12"oc FIELD.
6) REFER TO DETAILS 15 THRU 15D ON S0.20 FOR SILL PLATE AND RIM BOARD ATTACHMENT AT EXTENTS OF SHEARWALLS.
7) ADDITIONAL SHEARWALL & HOLDOWN INFORMATION FOR THE CLUB AREA, 5TH FLOOR OVER THE CLUB AND EAST TOWER PER S1.17C AND S1.16E

paragon star

PARAGON STAR NORTH VILLAGE

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REGISTRATION

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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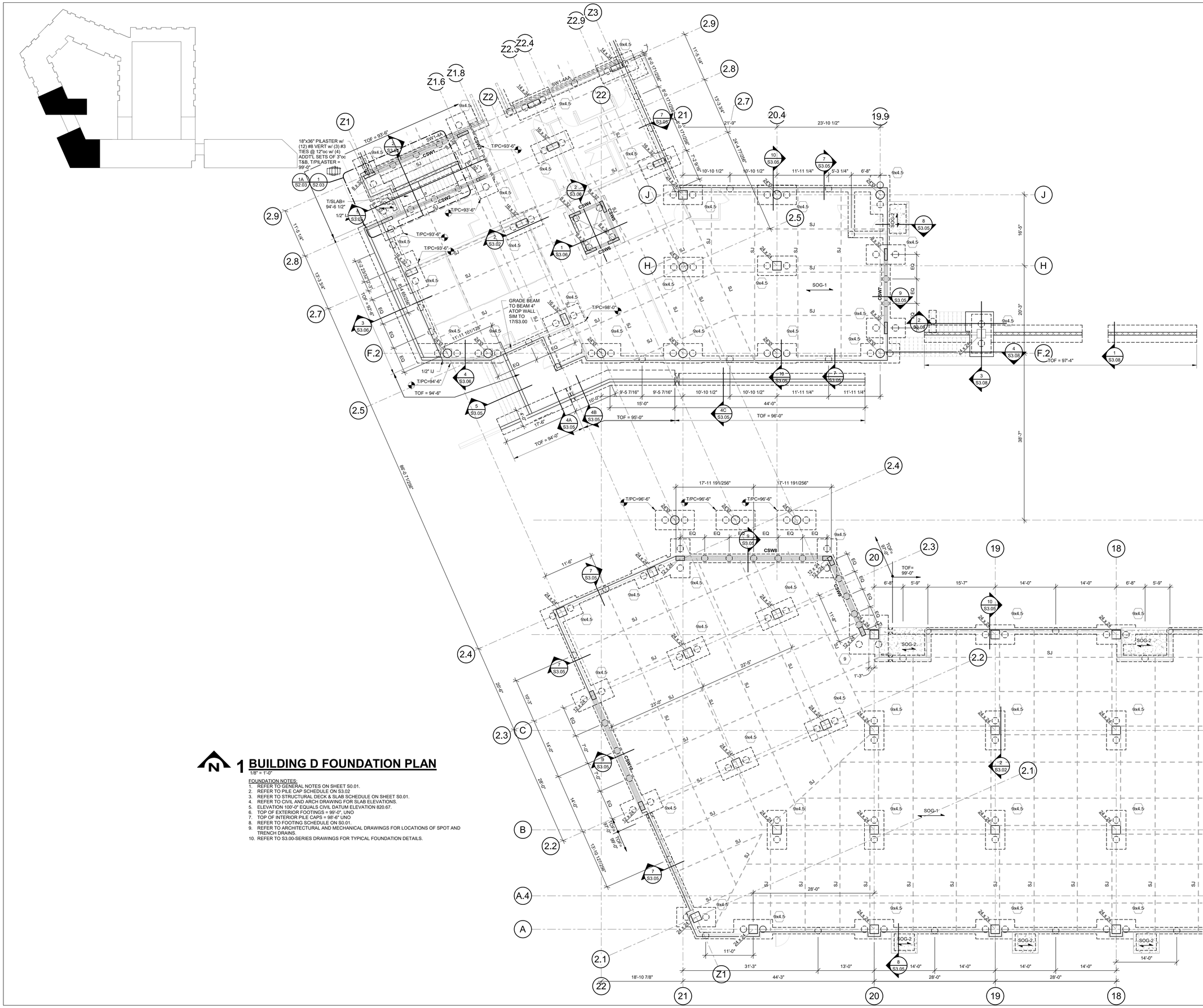
www.bdc-engrs.com

SHEET TITLE

BUILDING C
SHEARWALL PLAN

SHEET NUMBER

S1.36C



1 BUILDING D FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO PILE CAP SCHEDULE ON S3.02
3. REFER TO STRUCTURAL DECK & SLAB SCHEDULE ON SHEET S0.01.
4. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
5. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
6. TOP OF EXTERIOR FOOTINGS = 99'-0", UNO
7. TOP OF INTERIOR PILE CAPS = 98'-6" UNO
8. REFER TO FOOTING SCHEDULE ON S0.01.
9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
10. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.

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PARAGON STAR NORTH VILLAGE

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3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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SHEET TITLE

BUILDING D FOUNDATION PLAN

SHEET NUMBER

S1.41D

1 BUILDING D PODIUM SLAB REINFORCEMENT PLAN

1/8" = 1'-0"

CONCRETE FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO CIVIL AND ARCH DRAWINGS FOR SLAB ELEVATIONS
3. REFER TO ARCH AND MEP DRAINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
4. REFER TO CONCRETE COLUMN SCHEDULE ON S0.10.
5. REFER TO STRUCTURAL SLAB (PODIUM SLAB) NOTES ON S0.10.
6. COLUMNS AT FLAT SLABS TO HAVE SHEAR RAILS (NOT REQ'D AT DROPPED BEAMS), REFERENCE SLAB LAYOUT PLANS ON "b"-SERIES DRAWINGS FOR LOCATIONS AND SHEET S3.15 FOR TYPICAL DETAILS AND SHEAR RAIL SCHEDULE.
7. ELEVATIONS AND SLAB STEPS INDICATED OCCUR IN THE STRUCTURAL SLAB. REFER TO ARCH FOR SLOPES OF TOPPING SLAB.

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PARAGON STAR NORTH VILLAGE

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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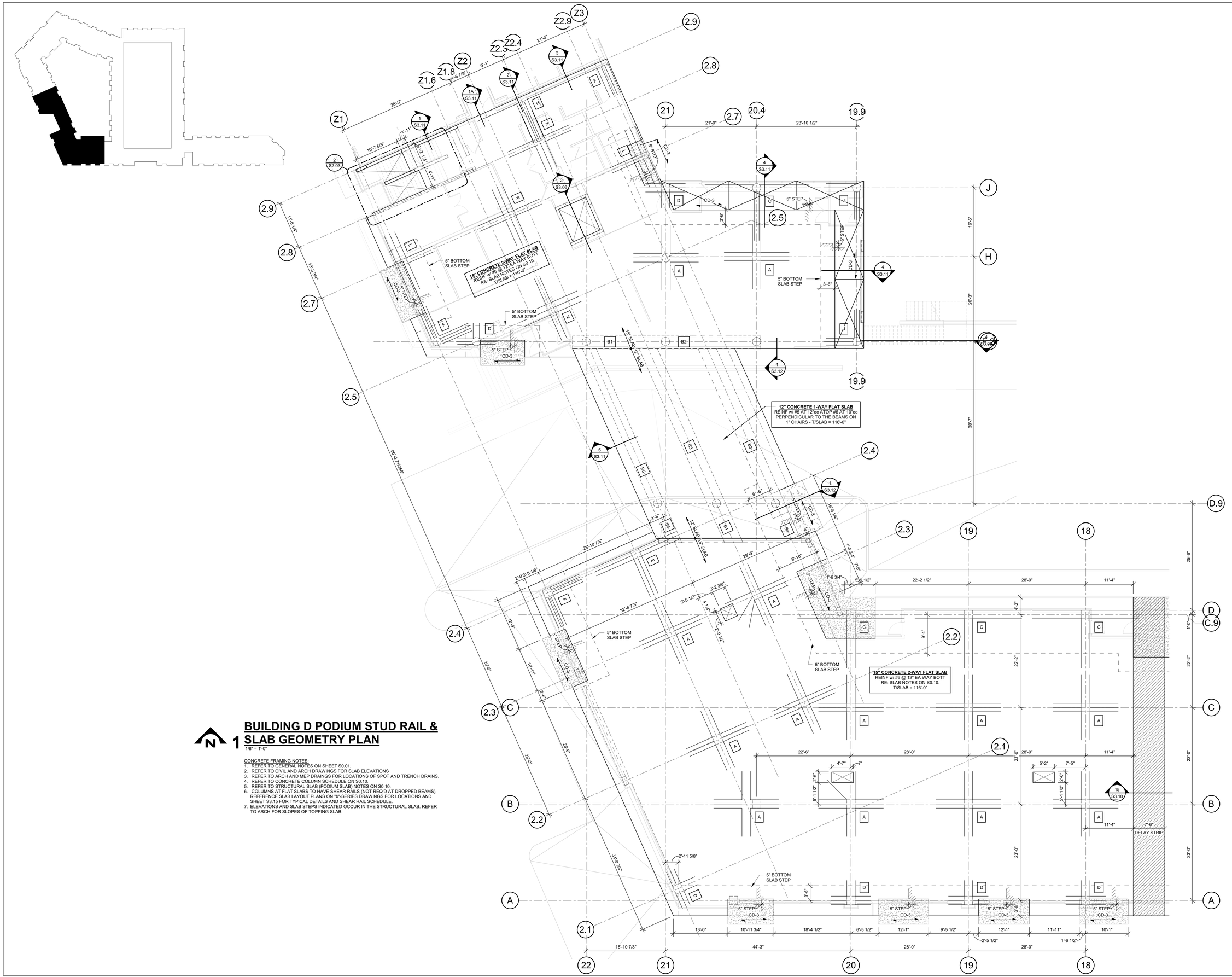
SHEET TITLE

BUILDING D PODIUM SLAB REINFORCEMENT PLAN

SHEET NUMBER

S1.42Da



1 BUILDING D PODIUM STUD RAIL & SLAB GEOMETRY PLAN

1/8" = 1'-0"

CONCRETE FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO CIVIL AND ARCH DRAWINGS FOR SLAB ELEVATIONS
3. REFER TO ARCH AND MEP DRAINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
4. REFER TO CONCRETE COLUMN SCHEDULE ON S0.10.
5. REFER TO STRUCTURAL SLAB (PODIUM SLAB) NOTES ON S0.10.
6. COLUMNS AT FLAT SLABS TO HAVE SHEAR RAILS (NOT REQ'D AT DROPPED BEAMS), REFERENCE SLAB LAYOUT PLANS ON "b"-SERIES DRAWINGS FOR LOCATIONS AND SHEET S3.15 FOR TYPICAL DETAILS AND SHEAR RAIL SCHEDULE.
7. ELEVATIONS AND SLAB STEPS INDICATED OCCUR IN THE STRUCTURAL SLAB. REFER TO ARCH FOR SLOPES OF TOPPING SLAB.

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CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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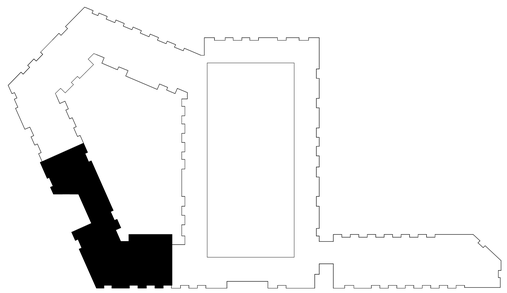
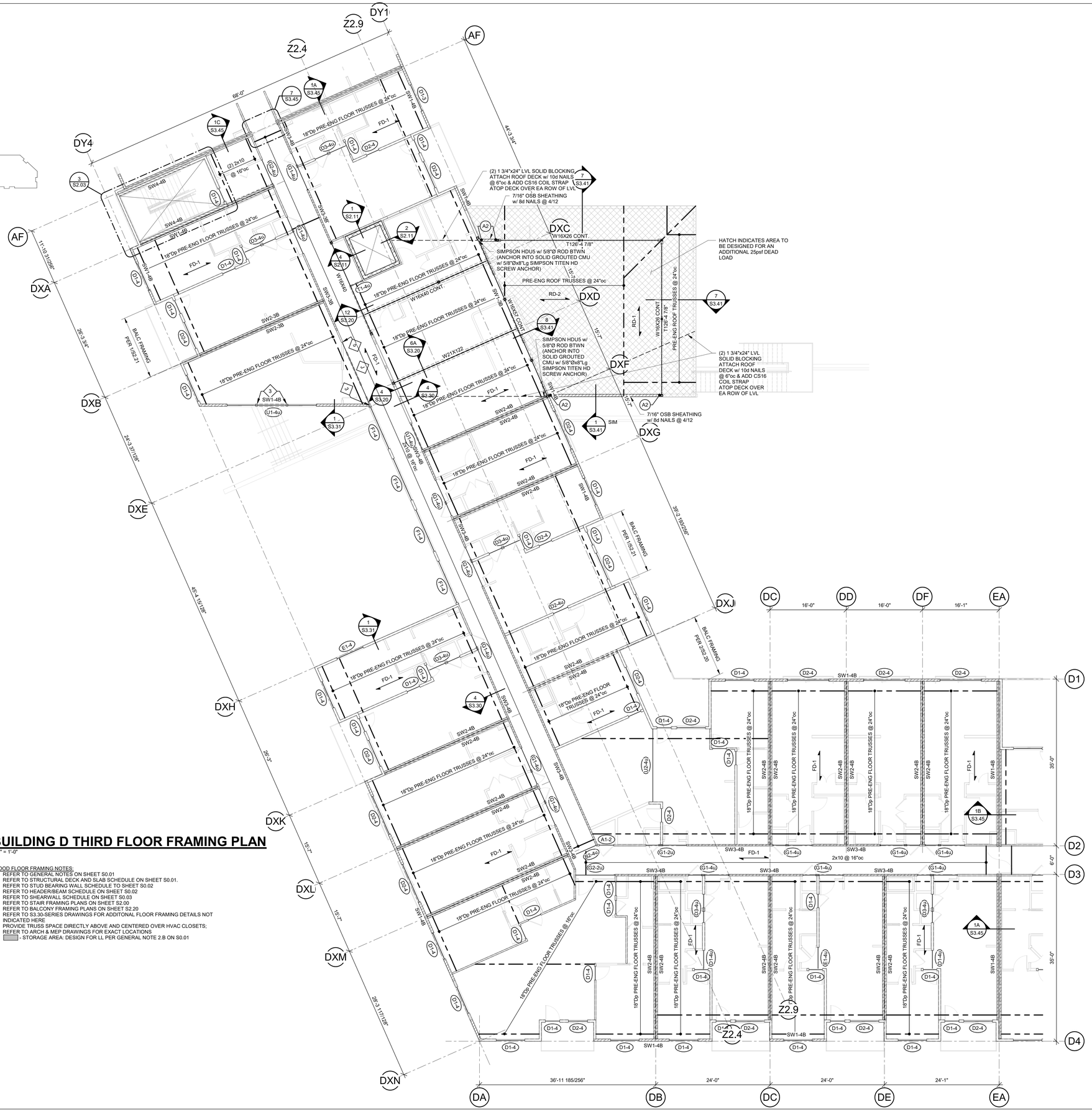
SHEET TITLE

BUILDING D PODIUM STUD RAIL & SLAB GEOMETRY PLAN

SHEET NUMBER

S1.42Db





1 BUILDING D THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. ▭ - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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PARAGON STAR NORTH VILLAGE

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LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
4
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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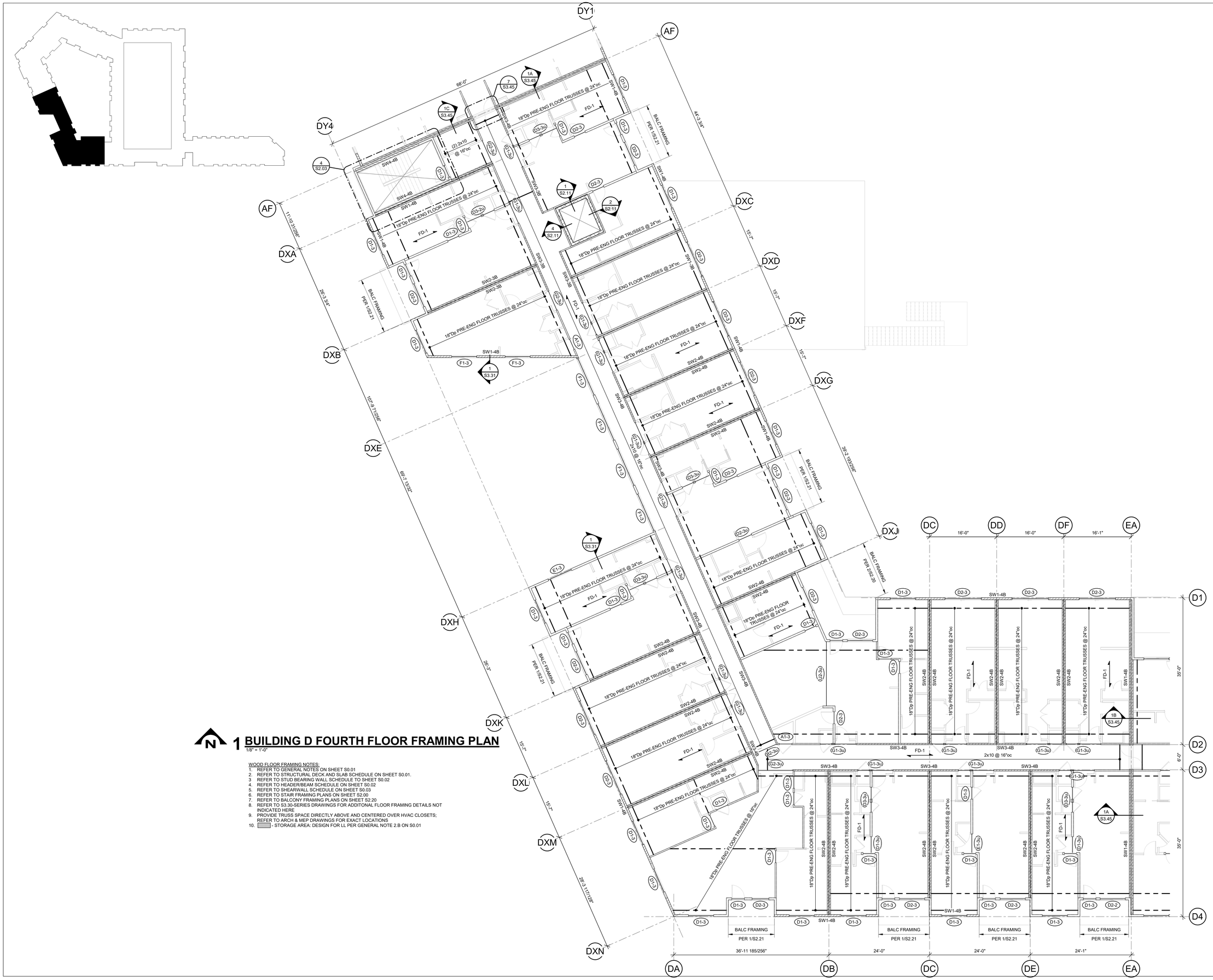
www.bdc-engrs.com

SHEET TITLE

BUILDING D THIRD FLOOR FRAMING PLAN

SHEET NUMBER

S1.43D



1 BUILDING D FOURTH FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. [ ] - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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PARAGON STAR NORTH VILLAGE

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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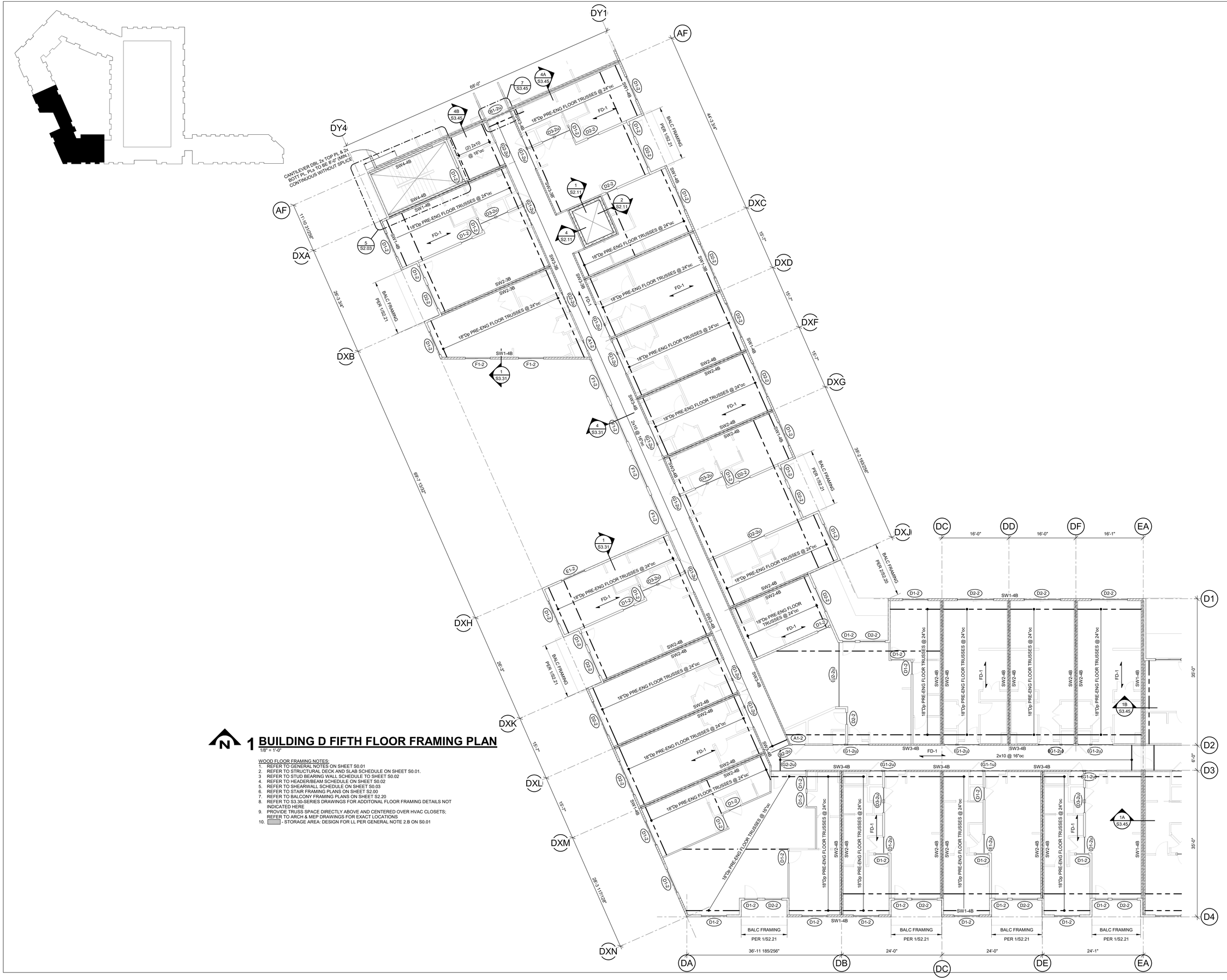
SHEET TITLE

BUILDING D
FOURTH FLOOR
FRAMING PLAN

SHEET NUMBER

S1.44D



1 BUILDING D FIFTH FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. ▭ - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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PARAGON STAR NORTH VILLAGE

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1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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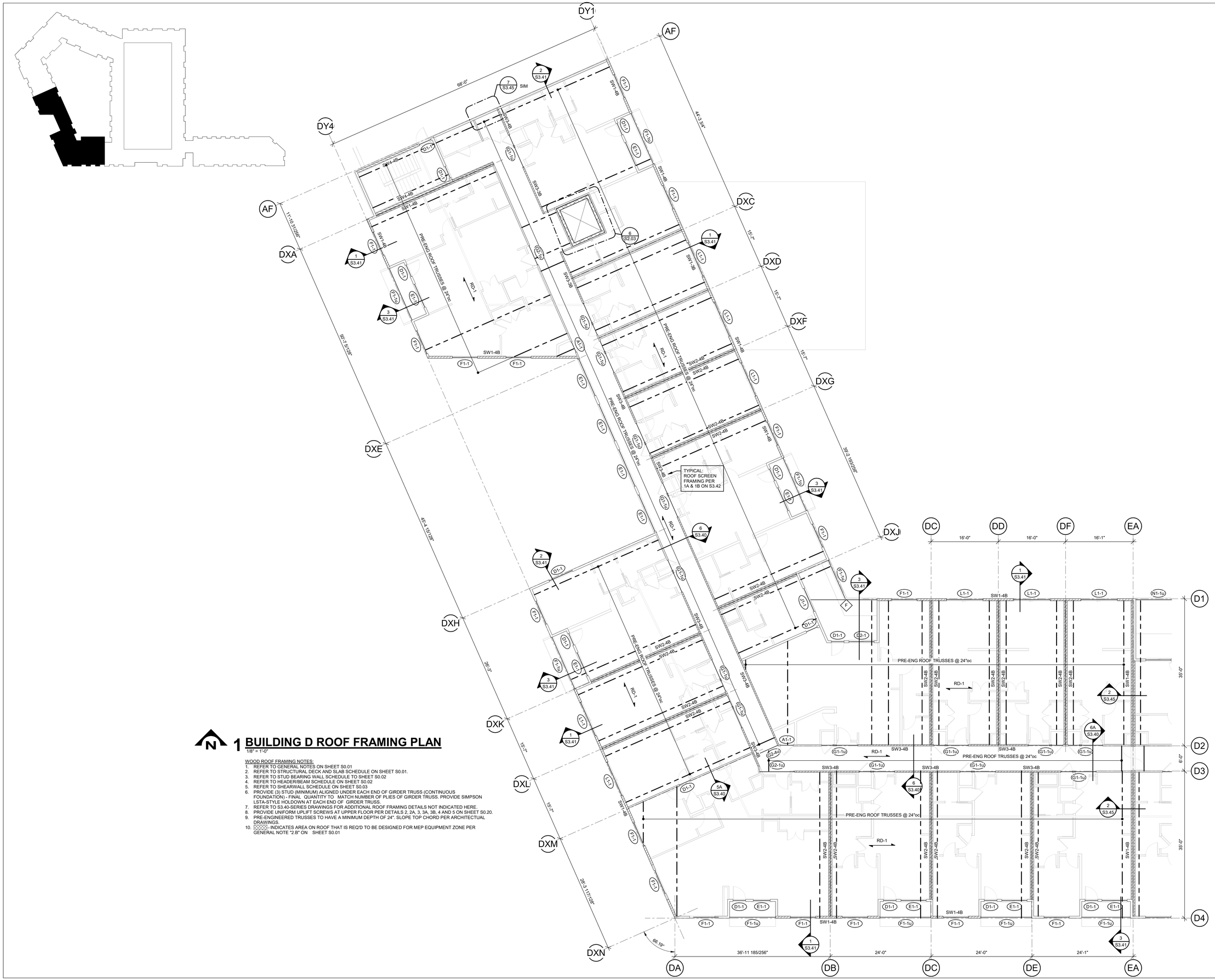
SHEET TITLE

BUILDING D FIFTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.45D



1 BUILDING D ROOF FRAMING PLAN

1/8" = 1'-0"

WOOD ROOF FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. PROVIDE (3) STUD (MINIMUM) ALIGNED UNDER EACH END OF GIRDER TRUSS (CONTINUOUS FOUNDATION) - FINAL QUANTITY TO MATCH NUMBER OF PLIES OF GIRDER TRUSS. PROVIDE SIMPSON LSTA-STYLE HOLDOWN AT EACH END OF GIRDER TRUSS.
7. REFER TO S3.40-SERIES DRAWINGS FOR ADDITIONAL ROOF FRAMING DETAILS NOT INDICATED HERE.
8. PROVIDE UNIFORM UPLIFT SCREWS AT UPPER FLOOR PER DETAILS 2, 2A, 3, 3A, 3B, 4 AND 5 ON SHEET S0.20.
9. PRE-ENGINEERED TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTUAL DRAWINGS.
10. ▨ - INDICATES AREA ON ROOF THAT IS REQ'D TO BE DESIGNED FOR MEP EQUIPMENT ZONE PER GENERAL NOTE "2.B" ON SHEET S0.01

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7.22.22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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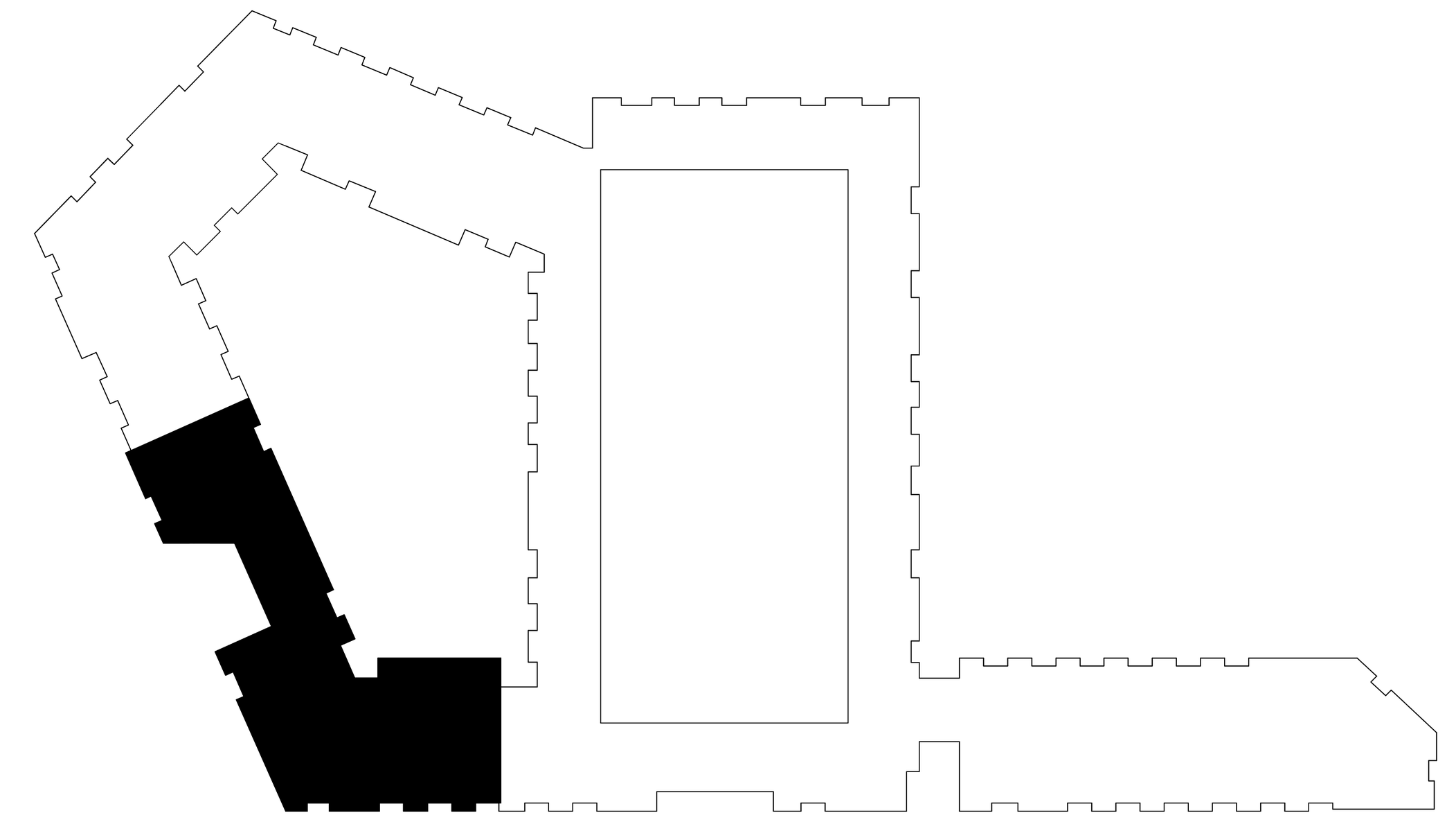
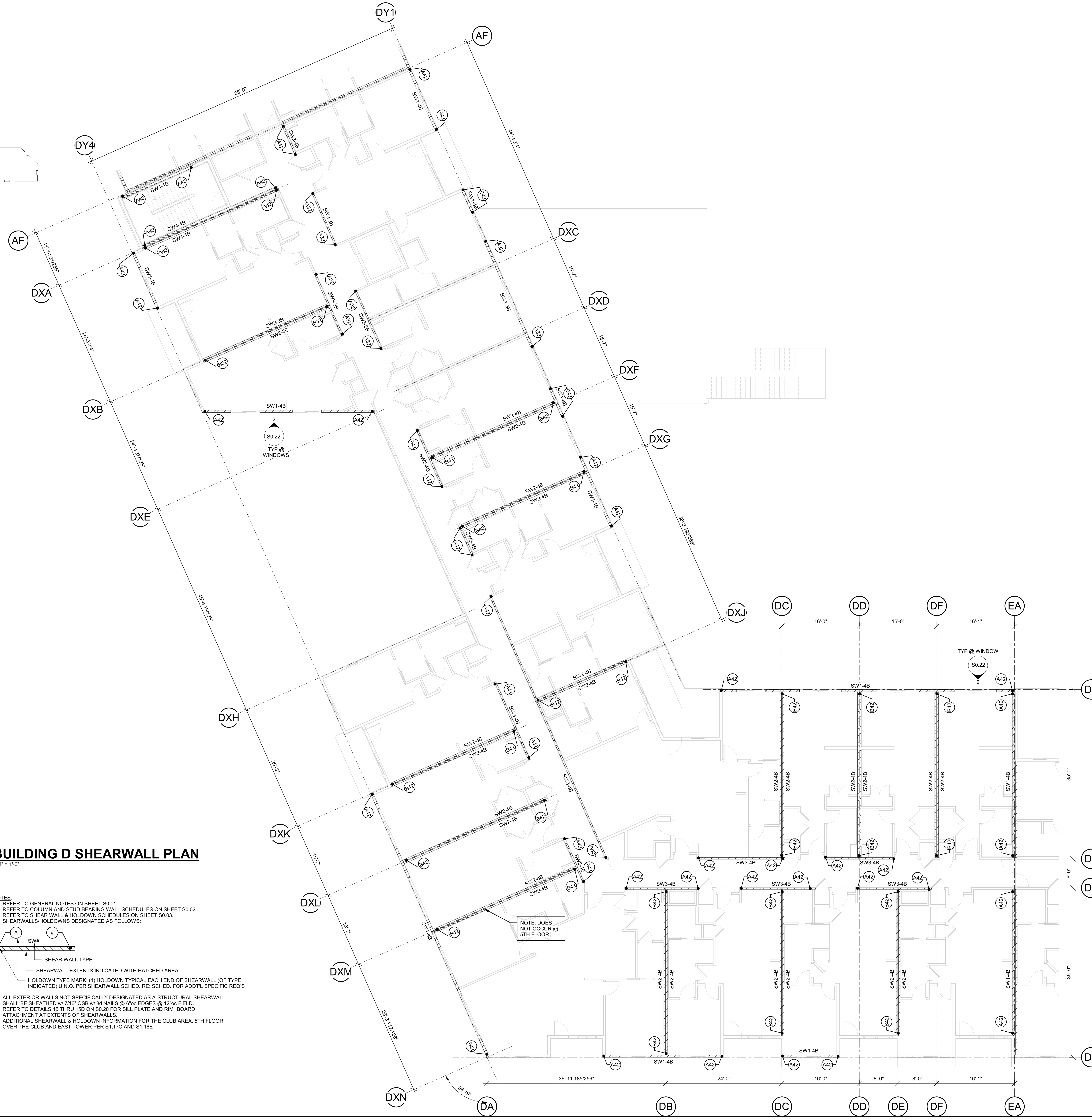
SHEET TITLE

BUILDING D ROOF FRAMING PLAN

SHEET NUMBER

S1.46D





1 BUILDING D SHEARWALL PLAN

1/8" = 1'-0"

NOTES:
1) REFER TO GENERAL NOTES ON SHEET S0.01.
2) REFER TO COLUMN AND STUD BEARING WALL SCHEDULES ON SHEET S0.02.
3) REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.03.
4) SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:

A #
SW#
SHEAR WALL TYPE
SHEARWALL EXTENTS INDICATED WITH HATCHED AREA
HOLDOWN TYPE MARK: (1) HOLDOWN TYPICAL EACH END OF SHEARWALL (OF TYPE INDICATED) U.N.O. PER SHEARWALL SCHED. RE: SCHED. FOR ADDT'L SPECIFIC REQ'S

5) ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS A STRUCTURAL SHEARWALL SHALL BE SHEATHED w/ 7/16" OSB w/ 8d NAILS @ 6"oc EDGES @ 12"oc FIELD.
6) REFER TO DETAILS 15 THRU 15D ON S0.20 FOR SILL PLATE AND RIM BOARD ATTACHMENT AT EXTENTS OF SHEARWALLS.
7) ADDITIONAL SHEARWALL & HOLDOWN INFORMATION FOR THE CLUB AREA, 5TH FLOOR OVER THE CLUB AND EAST TOWER PER S1.17C AND S1.16E

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paragon star

PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017,19050.07,19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012503
7-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

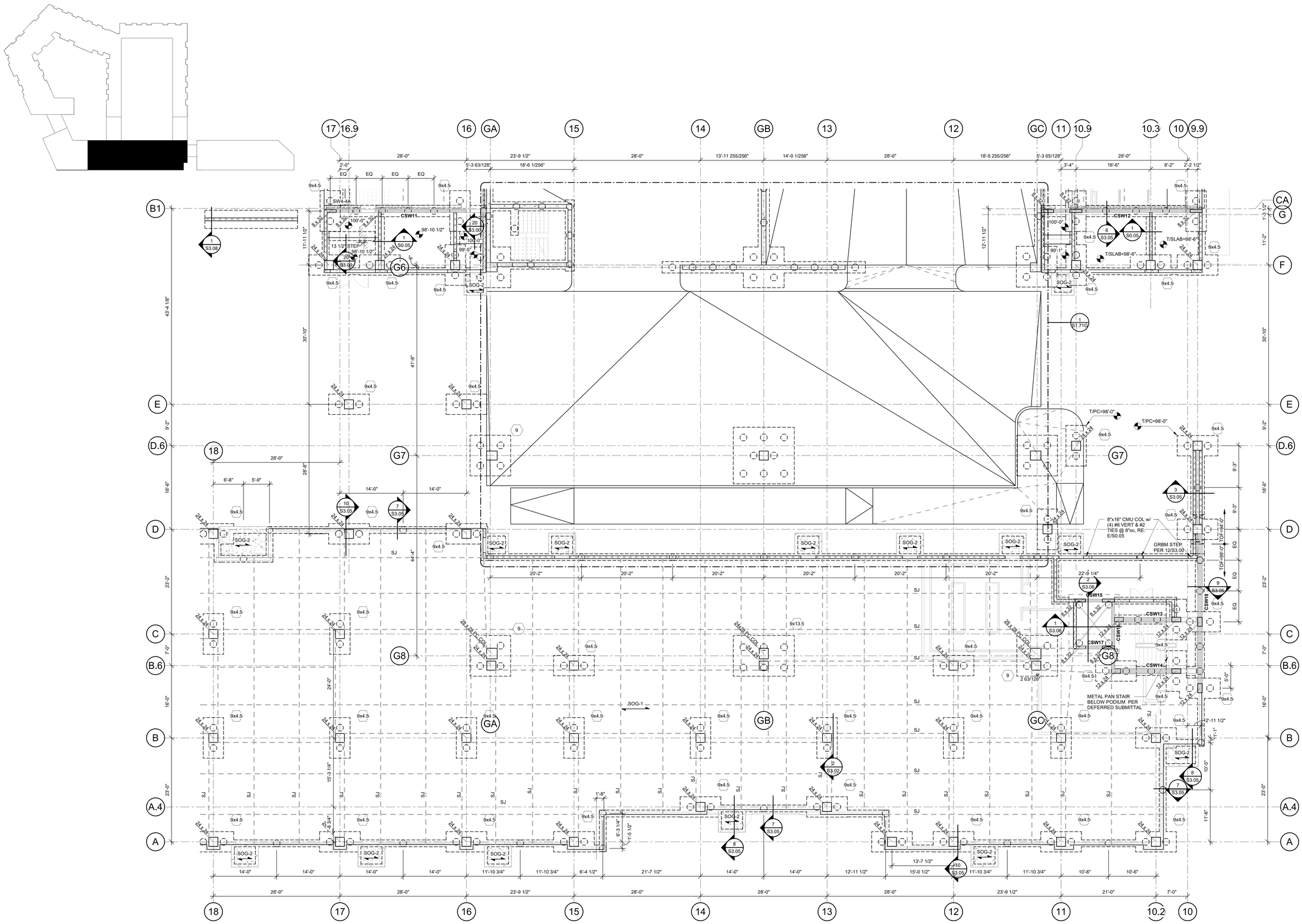
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Belleview Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

BUILDING D
SHEARWALL PLAN

SHEET NUMBER

S1.47D



1 BUILDING E FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO PILE CAP SCHEDULE ON S3.02
3. REFER TO STRUCTURAL DECK & SLAB SCHEDULE ON SHEET S0.01.
4. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
5. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
6. TOP OF EXTERIOR FOOTINGS = 99'-0", UNO
7. TOP OF INTERIOR PILE CAPS = 98'-6" UNO
8. REFER TO FOOTING SCHEDULE ON S0.01.
9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
10. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Kansas City, MO 64111
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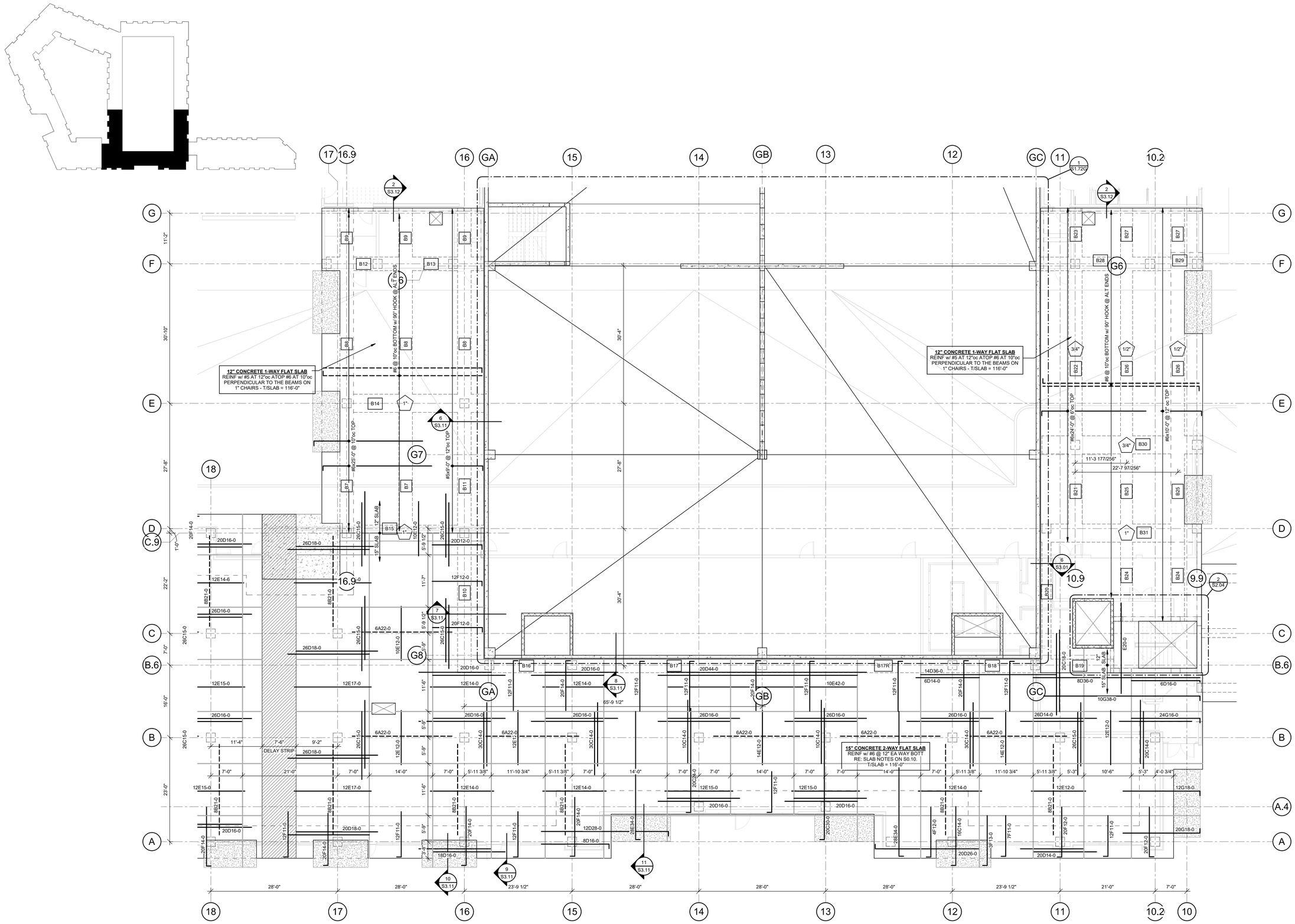
SHEET TITLE

BUILDING E FOUNDATION PLAN

SHEET NUMBER

S1.51E



1 BUILDING E PODIUM SLAB REINFORCMENT PLAN

1/8" = 1'-0"

CONCRETE FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO CIVIL AND ARCH DRAWINGS FOR SLAB ELEVATIONS
3. REFER TO ARCH AND MEP DRAINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
4. REFER TO CONCRETE COLUMN SCHEDULE ON S0.10.
5. REFER TO STRUCTURAL SLAB (PODIUM SLAB) NOTES ON S0.10.
6. COLUMNS AT FLAT SLABS TO HAVE SHEAR RAILS (NOT REQ'D AT DROPPED BEAMS), REFERENCE SLAB LAYOUT PLANS ON "b"-SERIES DRAWINGS FOR LOCATIONS AND SHEET S3.15 FOR TYPICAL DETAILS AND SHEAR RAIL SCHEDULE.
7. ELEVATIONS AND SLAB STEPS INDICATED OCCUR IN THE STRUCTURAL SLAB. REFER TO ARCH FOR SLOPES OF TOPPING SLAB.

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PARAGON STAR NORTH VILLAGE

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LEE'S SUMMIT, MO 64081

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

BOB D. CAMPBELL & CO.
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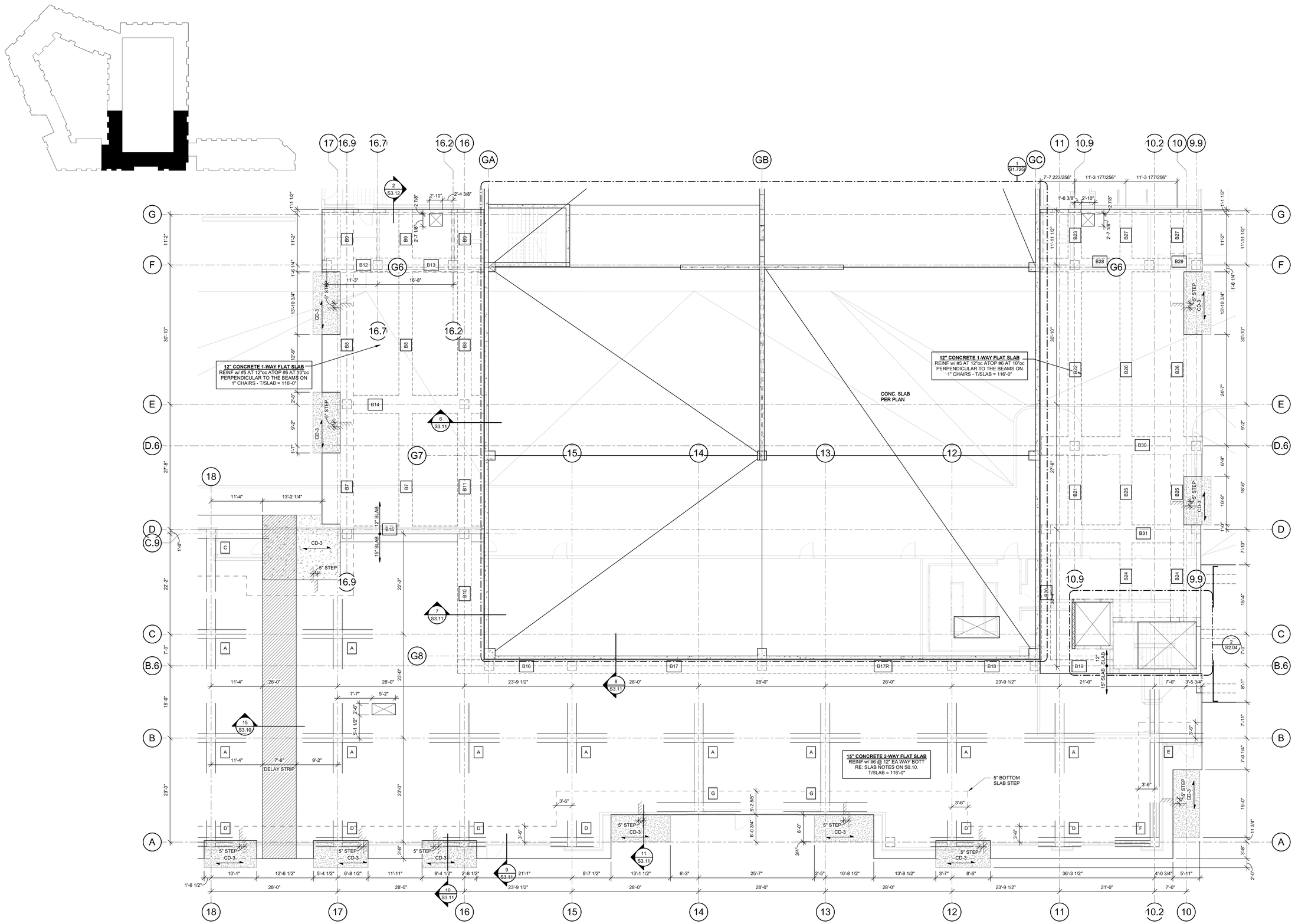
Since 1957
4338 Belleview Ave.
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

SHEET TITLE

BUILDING E PODIUM SLAB REINFORCEMENT PLAN

SHEET NUMBER

S1.52Ea



1 BUILDING E PODIUM STUD RAIL & SLAB GEOMETRY PLAN

1/8" = 1'-0"

CONCRETE FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO CIVIL AND ARCH DRAWINGS FOR SLAB ELEVATIONS
3. REFER TO ARCH AND MEP DRAINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
4. REFER TO CONCRETE COLUMN SCHEDULE ON S0.10.
5. REFER TO STRUCTURAL SLAB (PODIUM SLAB) NOTES ON S0.10.
6. COLUMNS AT FLAT SLABS TO HAVE SHEAR RAILS (NOT REQ'D AT DROPPED BEAMS), REFERENCE SLAB LAYOUT PLANS ON "b"-SERIES DRAWINGS FOR LOCATIONS AND SHEET S3.15 FOR TYPICAL DETAILS AND SHEAR RAIL SCHEDULE.
7. ELEVATIONS AND SLAB STEPS INDICATED OCCUR IN THE STRUCTURAL SLAB. REFER TO ARCH FOR SLOPES OF TOPPING SLAB.

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PARAGON STAR
NORTH VILLAGE

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STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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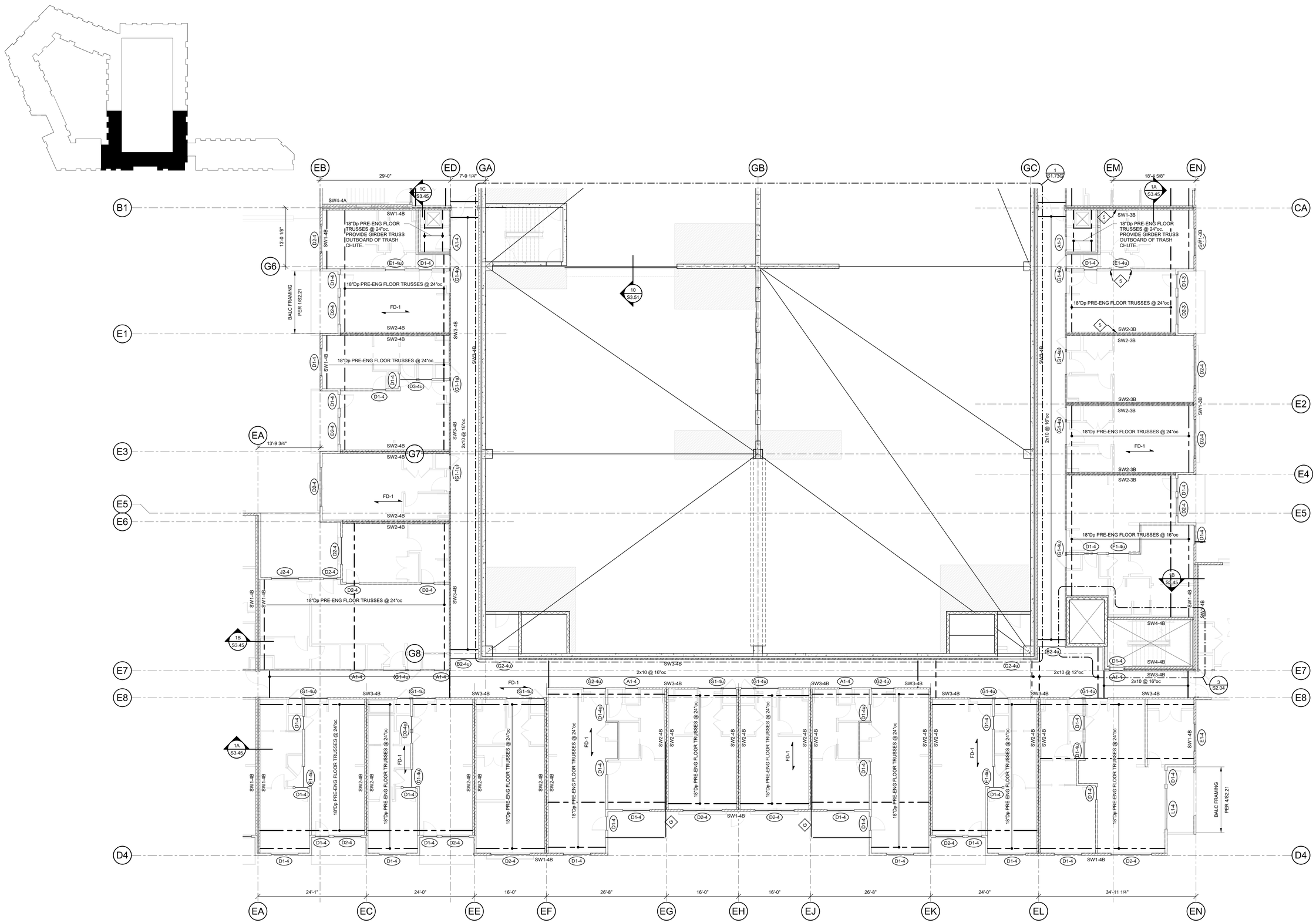
SHEET TITLE

BUILDING E
PODIUM STUD
RAIL & SLAB
GEOMETRY PLAN

SHEET NUMBER

S1.52Eb



1 BUILDING E THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. ▭ - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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PARAGON STAR NORTH VILLAGE

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3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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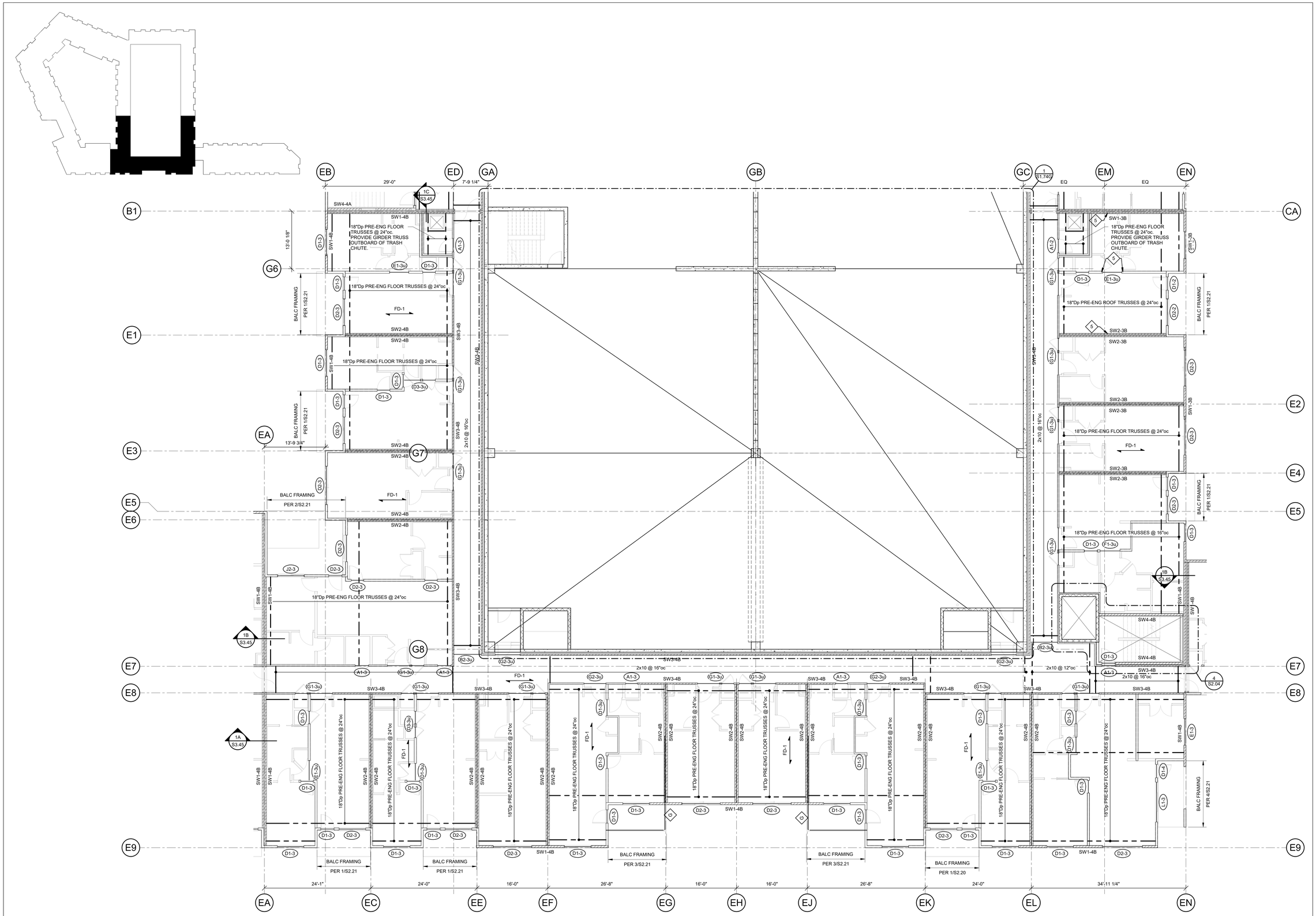
SHEET TITLE

BUILDING E THIRD FLOOR FRAMING PLAN

SHEET NUMBER

S1.53E



1 BUILDING E FOURTH FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. ▭ - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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PARAGON STAR NORTH VILLAGE

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1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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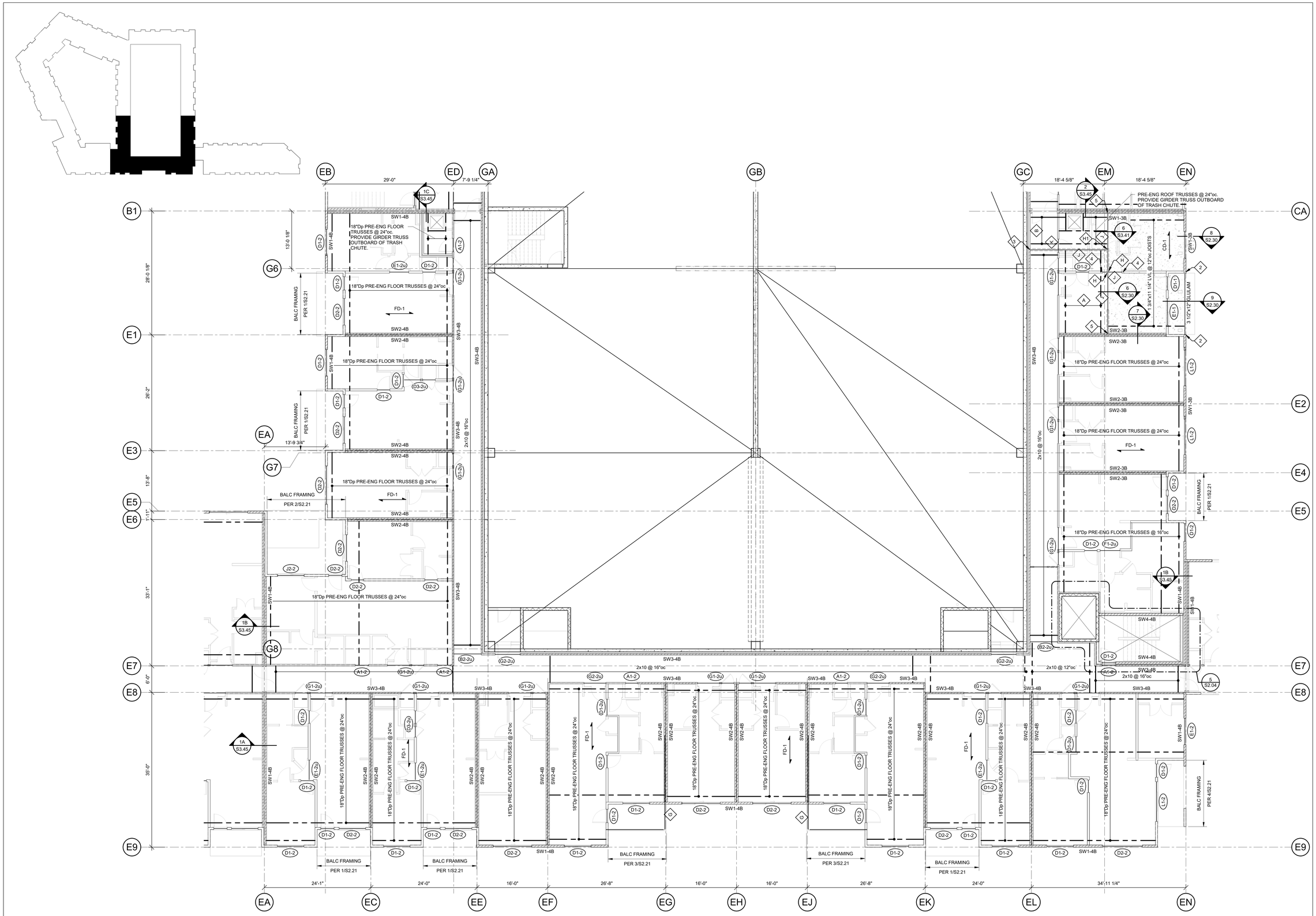
SHEET TITLE

BUILDING E FOURTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.54E



1 BUILDING E FIFTH FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. [ ] - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7.22.22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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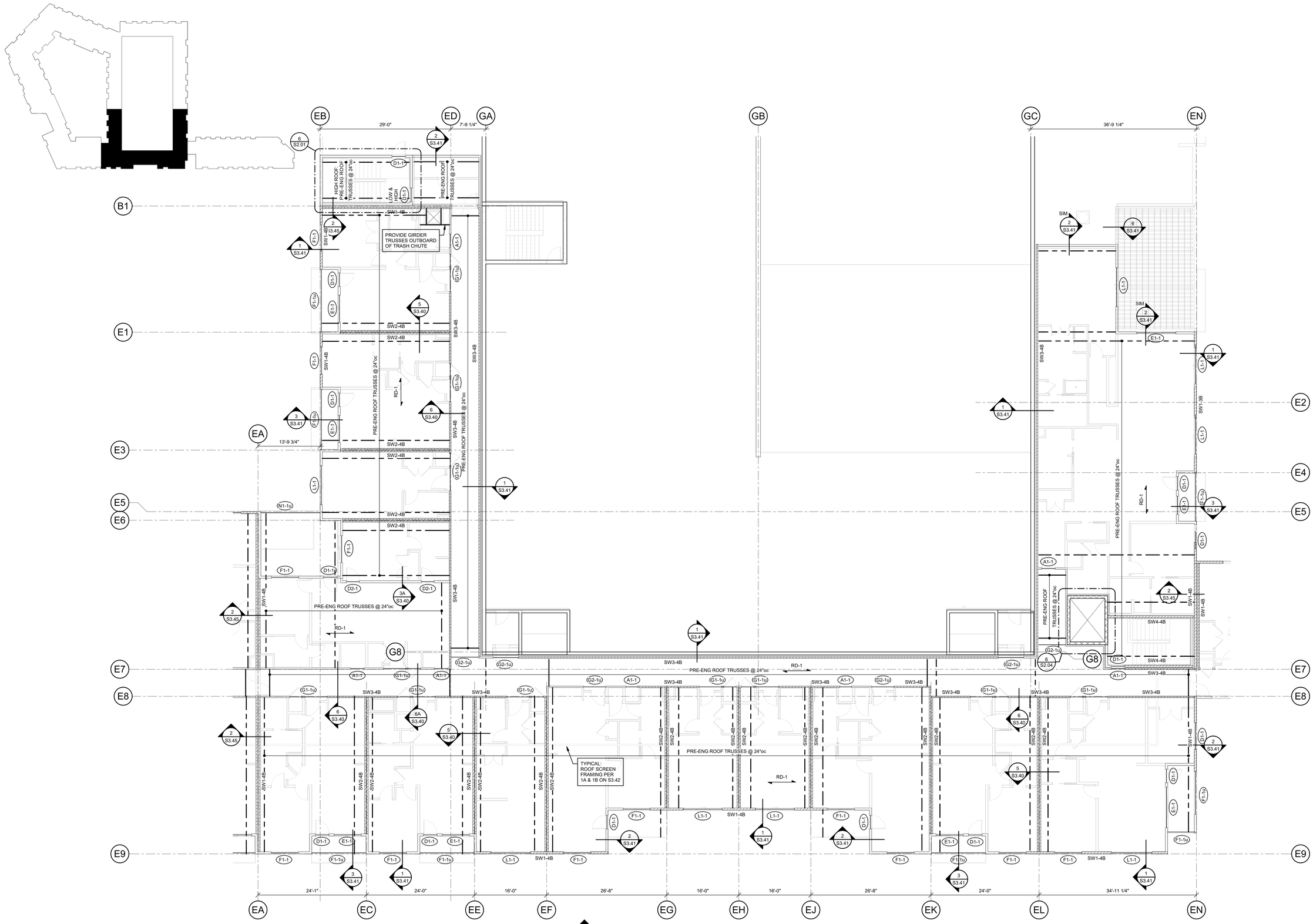
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

SHEET TITLE

BUILDING E FIFTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.55E



1 BUILDING E ROOF FRAMING PLAN

1/8" = 1'-0"

WOOD ROOF FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. PROVIDE (3) STUD (MINIMUM) ALIGNED UNDER EACH END OF GIRDER TRUSS (CONTINUOUS FOUNDATION) - FINAL QUANTITY TO MATCH NUMBER OF PLIES OF GIRDER TRUSS. PROVIDE SIMPSON LSTA-STYLE HOLDOWN AT EACH END OF GIRDER TRUSS.
7. REFER TO S3.40-SERIES DRAWINGS FOR ADDITIONAL ROOF FRAMING DETAILS NOT INDICATED HERE.
8. PROVIDE UNIFORM UPLIFT SCREWS AT UPPER FLOOR PER DETAILS 2, 2A, 3, 3A, 3B, 4 AND 5 ON SHEET S0.20.
9. PRE-ENGINEERED TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTURAL DRAWINGS.
10. ▨ INDICATES AREA ON ROOF THAT IS REQ'D TO BE DESIGNED FOR MEP EQUIPMENT ZONE PER GENERAL NOTE "2.B" ON SHEET S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7.22.22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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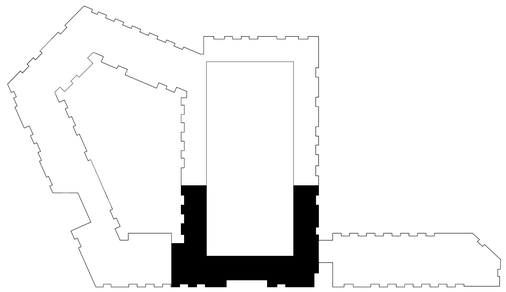
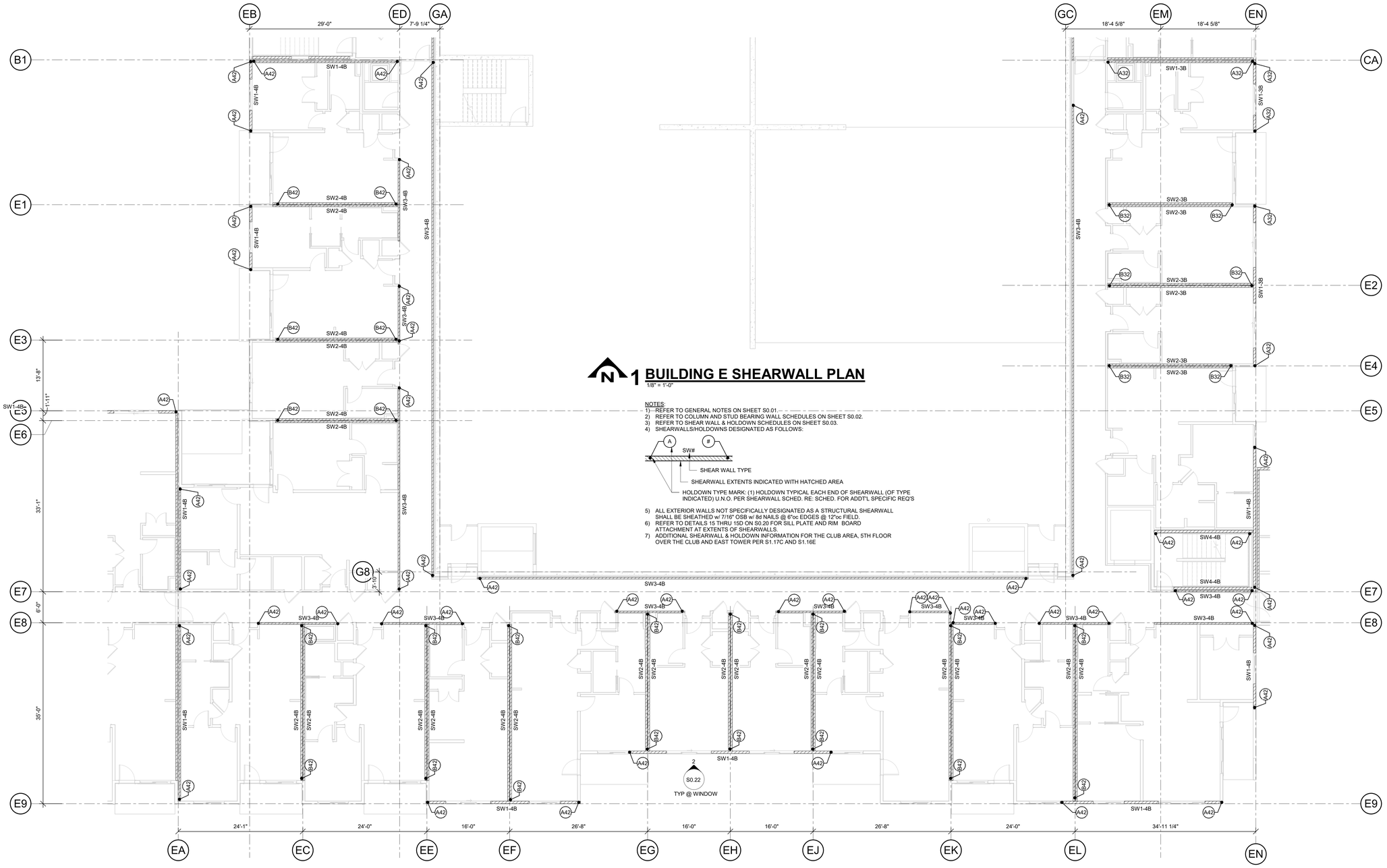
SHEET TITLE

BUILDING E ROOF FRAMING PLAN

SHEET NUMBER

S1.56E





1 BUILDING E SHEARWALL PLAN

1/8" = 1'-0"

NOTES:
1) REFER TO GENERAL NOTES ON SHEET S0.01.
2) REFER TO COLUMN AND STUD BEARING WALL SCHEDULES ON SHEET S0.02.
3) REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.03.
4) SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:

SHEAR WALL TYPE

SHEARWALL EXTENTS INDICATED WITH HATCHED AREA

HOLDOWN TYPE MARK: (1) HOLDOWN TYPICAL EACH END OF SHEARWALL (OF TYPE INDICATED) U.N.O. PER SHEARWALL SCHED. RE: SCHED. FOR ADDT'L SPECIFIC REQ'S

5) ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS A STRUCTURAL SHEARWALL SHALL BE SHEATHED w/ 7/16" OSB w/ 8d NAILS @ 6"oc EDGES @ 12"oc FIELD.
6) REFER TO DETAILS 15 THRU 15D ON S0.20 FOR SILL PLATE AND RIM BOARD ATTACHMENT AT EXTENTS OF SHEARWALLS.
7) ADDITIONAL SHEARWALL & HOLDOWN INFORMATION FOR THE CLUB AREA, 5TH FLOOR OVER THE CLUB AND EAST TOWER PER S1.17C AND S1.16E

2 S0.22 TYP @ WINDOW

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

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REGISTRATION

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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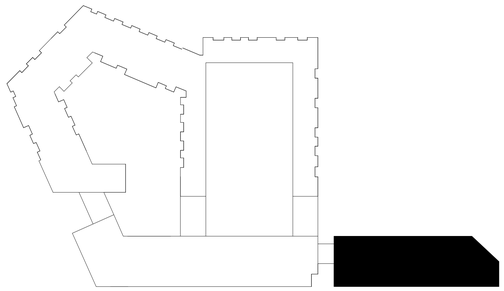
816.531.4144
www.bdc-engrs.com

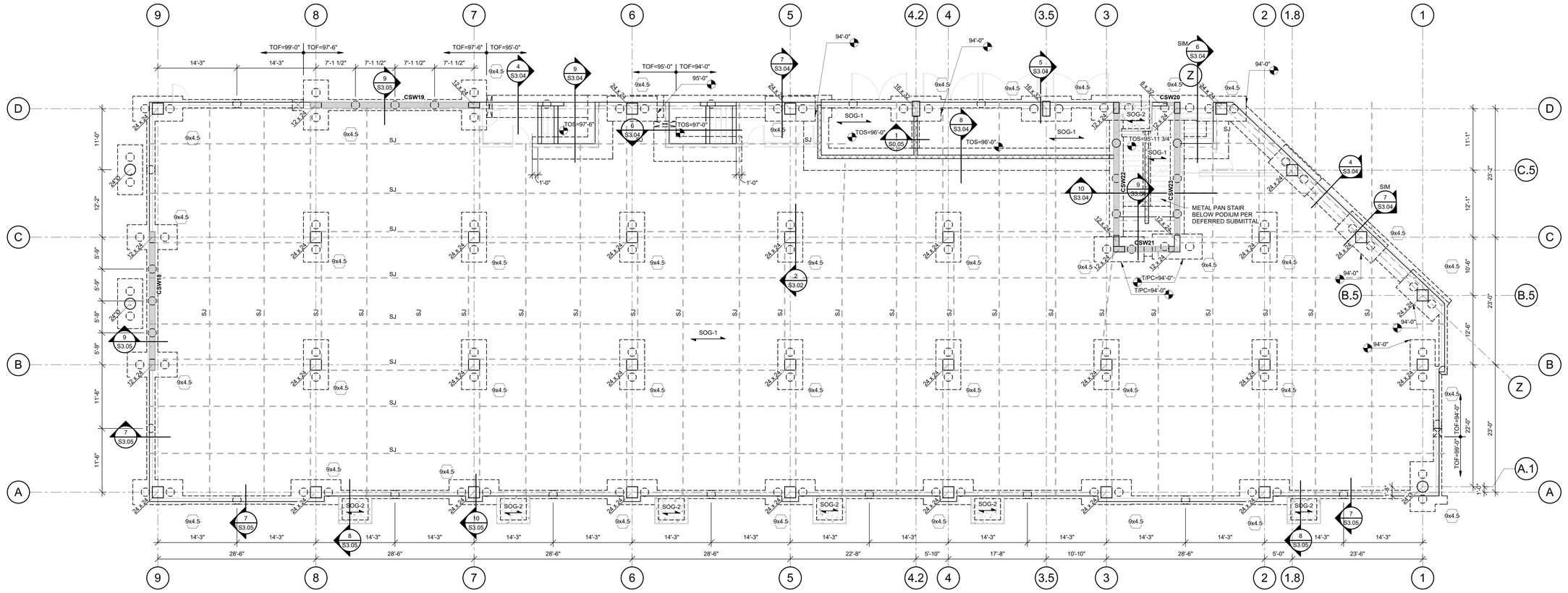
SHEET TITLE

BUILDING E SHEARWALL PLAN

SHEET NUMBER

S1.57E





1 BUILDING F FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO PILE CAP SCHEDULE ON S3.02
3. REFER TO STRUCTURAL DECK & SLAB SCHEDULE ON SHEET S0.01.
4. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
5. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
6. TOP OF EXTERIOR FOOTINGS = 99'-0", UNO.
7. TOP OF INTERIOR PILE CAPS = 98'-6" UNO
8. REFER TO FOOTING SCHEDULE ON S0.01.
9. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
10. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

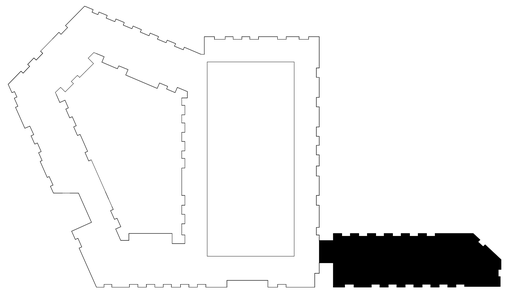
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Belleview Ave.
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

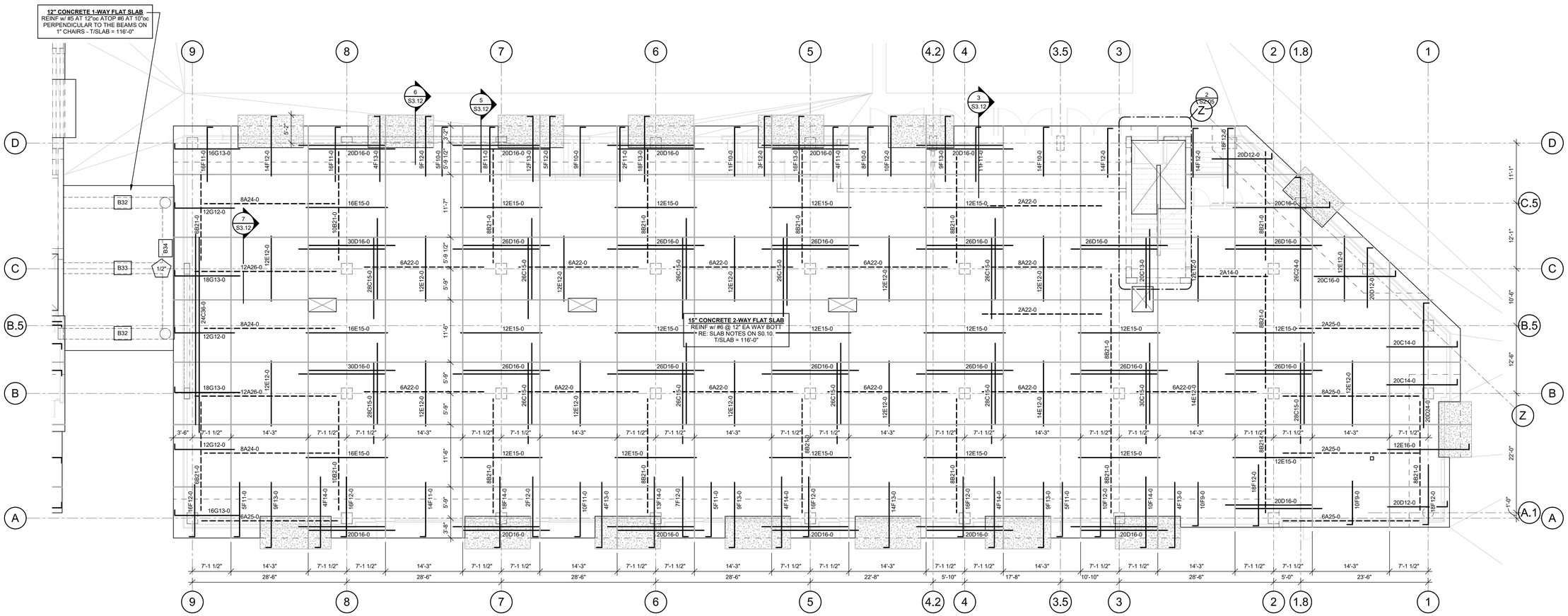
SHEET TITLE

BUILDING F FOUNDATION PLAN

SHEET NUMBER

S1.61F





1 BUILDING F PODIUM SLAB REINFORCEMENT PLAN

1/8" = 1'-0"

CONCRETE FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO CIVIL AND ARCH DRAWINGS FOR SLAB ELEVATIONS
3. REFER TO ARCH AND MEP DRAINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
4. REFER TO CONCRETE COLUMN SCHEDULE ON S0.10.
5. REFER TO STRUCTURAL SLAB (PODIUM SLAB) NOTES ON S0.10.
6. COLUMNS AT FLAT SLABS TO HAVE SHEAR RAILS (NOT REQ'D AT DROPPED BEAMS), REFERENCE SLAB LAYOUT PLANS ON "b"-SERIES DRAWINGS FOR LOCATIONS AND SHEET S3.15 FOR TYPICAL DETAILS AND SHEAR RAIL SCHEDULE.
7. ELEVATIONS AND SLAB STEPS INDICATED OCCUR IN THE STRUCTURAL SLAB. REFER TO ARCH FOR SLOPES OF TOPPING SLAB.

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

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2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Kansas City, MO 64111
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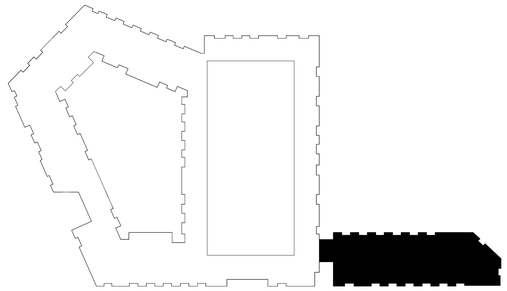
www.bdc-engrs.com

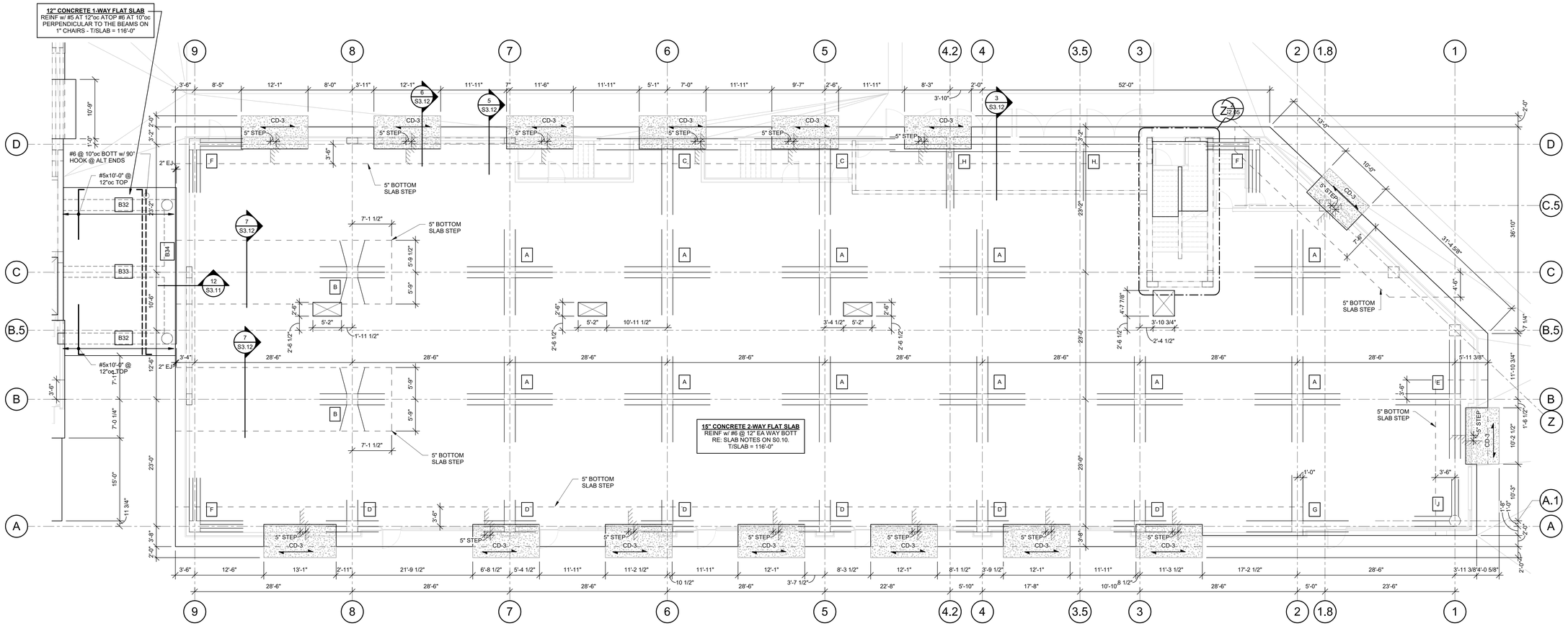
SHEET TITLE

BUILDING F PODIUM SLAB REINFORCEMENT PLAN

SHEET NUMBER

S1.62Fa





1 BUILDING F PODIUM STUD RAIL & SLAB GEOMETRY PLAN

1/8" = 1'-0"

CONCRETE FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO CIVIL AND ARCH DRAWINGS FOR SLAB ELEVATIONS
3. REFER TO ARCH AND MEP DRAINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
4. REFER TO CONCRETE COLUMN SCHEDULE ON S0.10.
5. REFER TO STRUCTURAL SLAB (PODIUM SLAB) NOTES ON S0.10.
6. COLUMNS AT FLAT SLABS TO HAVE SHEAR RAILS (NOT REQ'D AT DROPPED BEAMS), REFERENCE SLAB LAYOUT PLANS ON "b"-SERIES DRAWINGS FOR LOCATIONS AND SHEET S3.15 FOR TYPICAL DETAILS AND SHEAR RAIL SCHEDULE.
7. ELEVATIONS AND SLAB STEPS INDICATED OCCUR IN THE STRUCTURAL SLAB. REFER TO ARCH FOR SLOPES OF TOPPING SLAB.

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
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REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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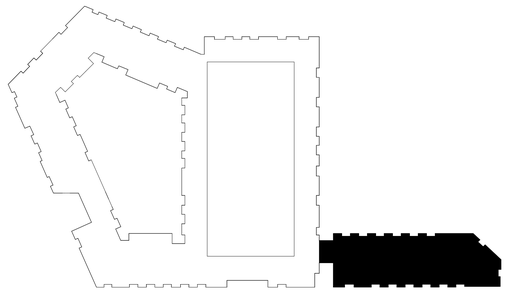
Structural Engineers
4338 Belleview Ave.
Kansas City, MO 64111
Since 1957
816.531.4144
www.bdc-engrs.com

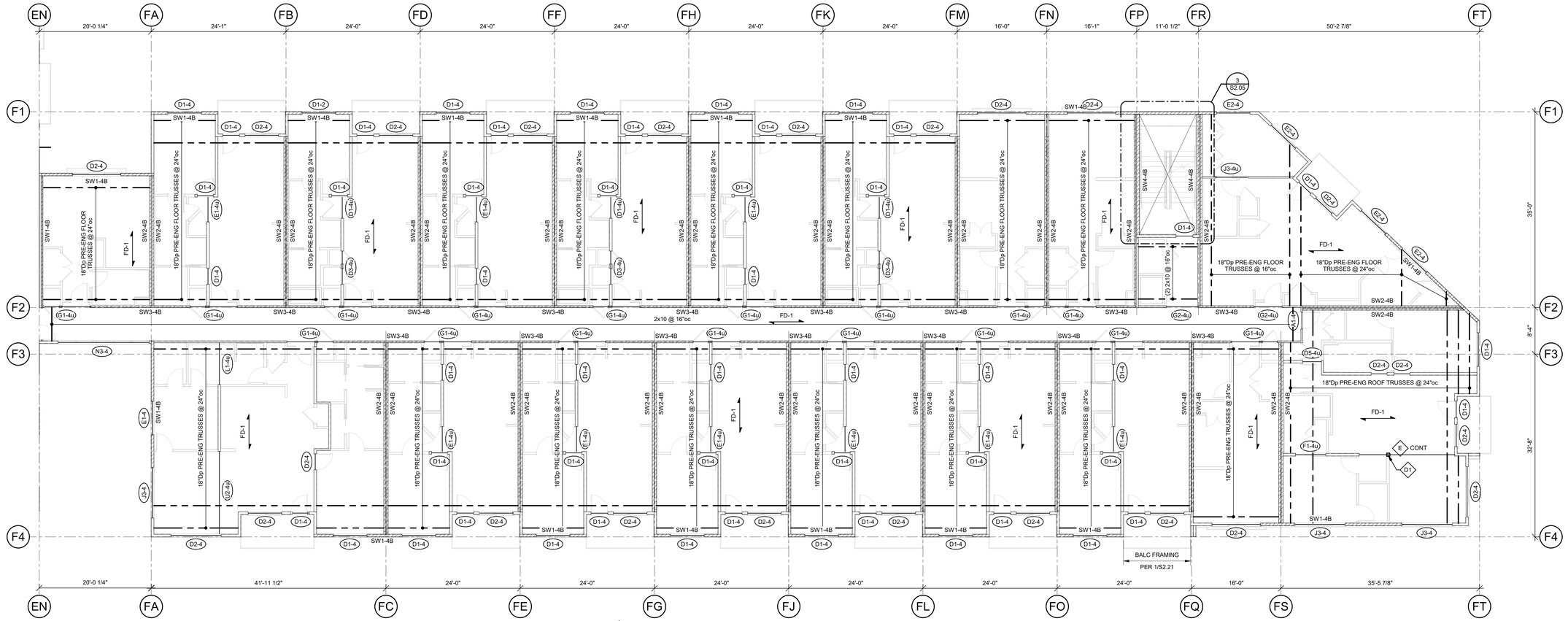
SHEET TITLE

BUILDING F PODIUM STUD RAIL & SLAB GEOMETRY PLAN

SHEET NUMBER

S1.62Fb





1 BUILDING F THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. [ ] - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7.22.22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Kansas City, MO 64111
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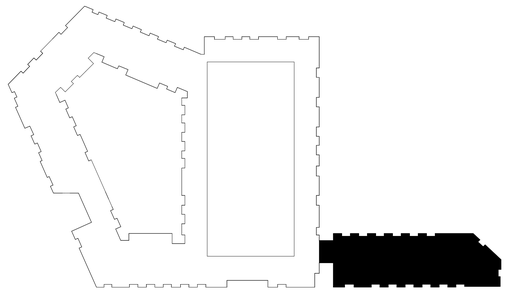
www.bdc-engrs.com

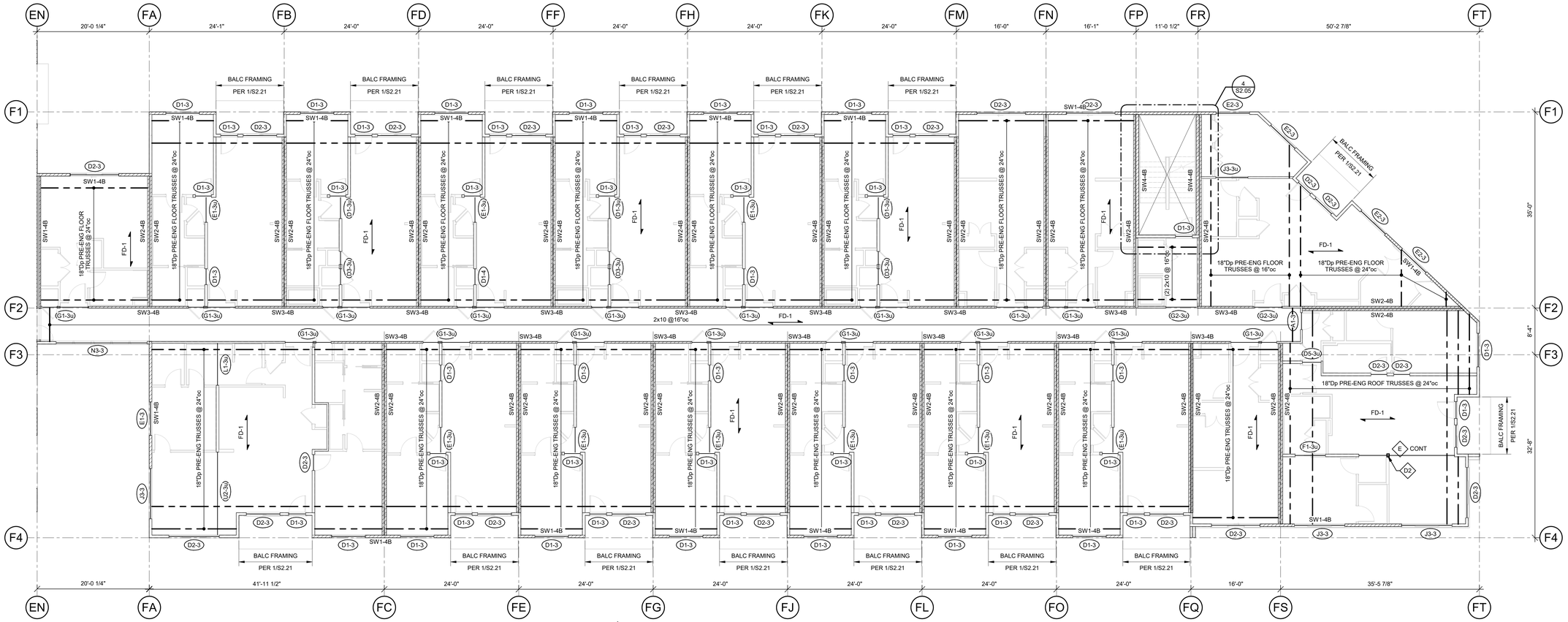
SHEET TITLE

BUILDING F THIRD FLOOR FRAMING PLAN

SHEET NUMBER

S1.63F





1 BUILDING F FOURTH FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. [redacted] - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07.19050.08
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REVISIONS

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2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Kansas City, MO 64111
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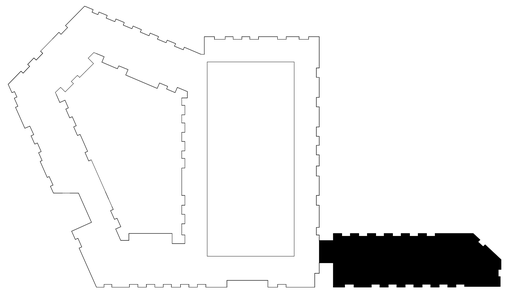
www.bdc-engrs.com

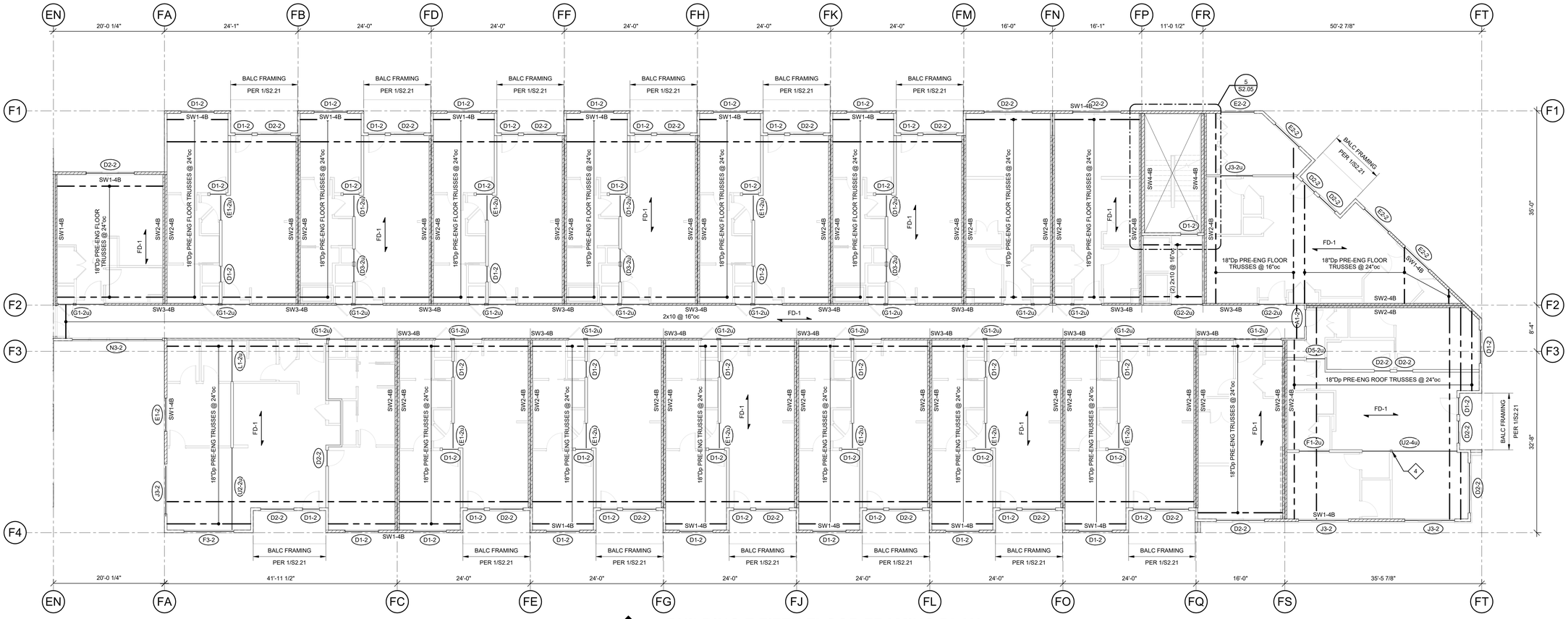
SHEET TITLE

BUILDING F FOURTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.64F





1 BUILDING F FIFTH FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. REFER TO STAIR FRAMING PLANS ON SHEET S2.00
7. REFER TO BALCONY FRAMING PLANS ON SHEET S2.20
8. REFER TO S3.30-SERIES DRAWINGS FOR ADDITONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
9. PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
10. [redacted] - STORAGE AREA: DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
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REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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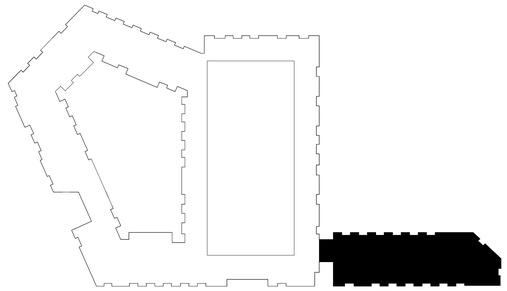
www.bdc-engrs.com

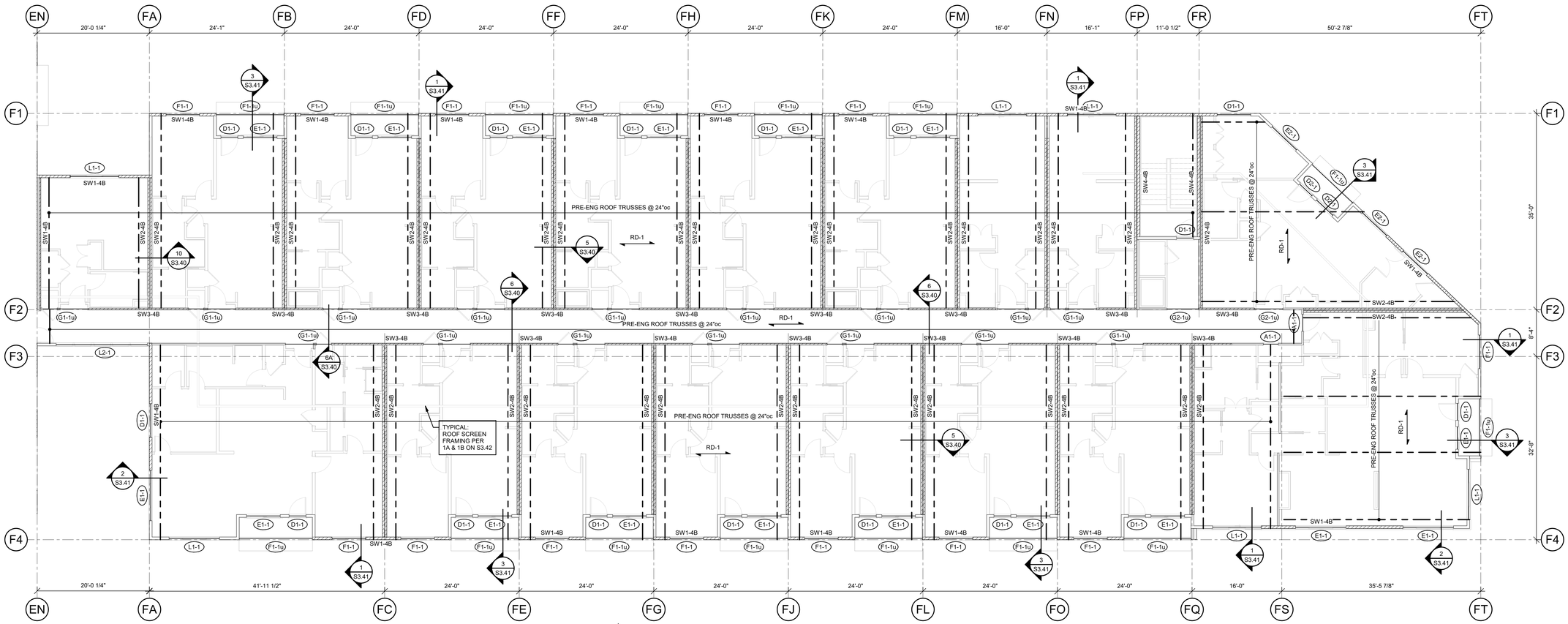
SHEET TITLE

BUILDING F FIFTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.65F





1 BUILDING F ROOF FRAMING PLAN

1/8" = 1'-0"

WOOD ROOF FRAMING NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STRUCTURAL DECK AND SLAB SCHEDULE ON SHEET S0.01.
3. REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
4. REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
5. REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
6. PROVIDE (3) STUD (MINIMUM) ALIGNED UNDER EACH END OF GIRDER TRUSS (CONTINUOUS FOUNDATION) - FINAL QUANTITY TO MATCH NUMBER OF PLIES OF GIRDER TRUSS. PROVIDE SIMPSON LSTA-STYLE HOLDOWN AT EACH END OF GIRDER TRUSS.
7. REFER TO S3.40-SERIES DRAWINGS FOR ADDITIONAL ROOF FRAMING DETAILS NOT INDICATED HERE.
8. PROVIDE UNIFORM UPLIFT SCREWS AT UPPER FLOOR PER DETAILS 2, 2A, 3, 3A, 3B, 4 AND 5 ON SHEET S0.20.
9. PRE-ENGINEERED TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTUAL DRAWINGS.
10. ▨ - INDICATES AREA ON ROOF THAT IS REQ'D TO BE DESIGNED FOR MEP EQUIPMENT ZONE PER GENERAL NOTE "2.B" ON SHEET S0.01

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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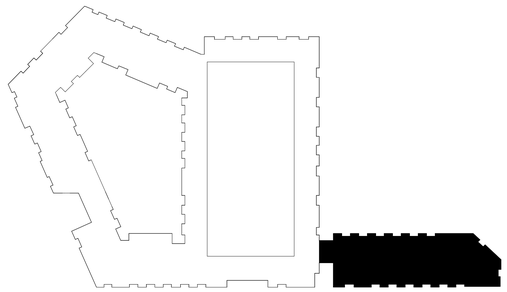
www.bdc-engrs.com

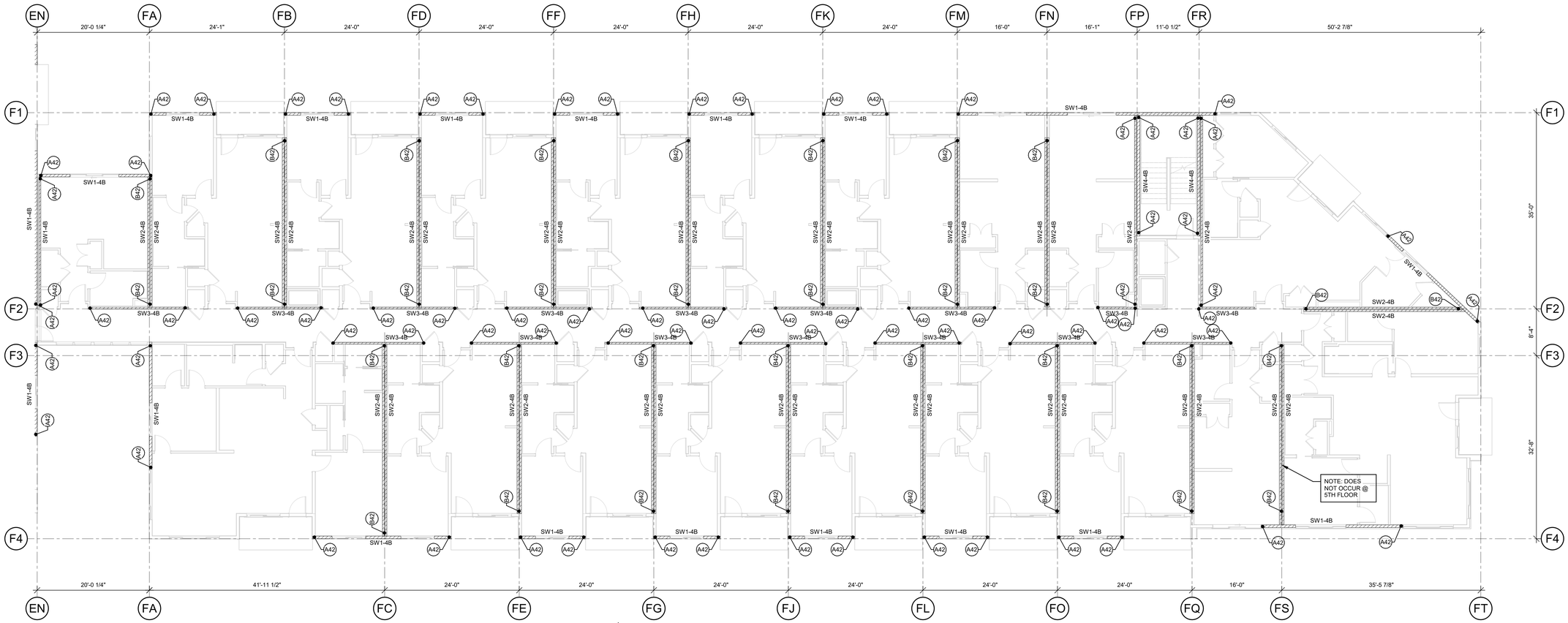
SHEET TITLE

BUILDING F ROOF FRAMING PLAN

SHEET NUMBER

S1.66F



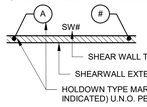


1 BUILDING F SHEARWALL PLAN

1/8" = 1'-0"

NOTES:

1) REFER TO GENERAL NOTES ON SHEET S0.01.
2) REFER TO COLUMN AND STUD BEARING WALL SCHEDULES ON SHEET S0.02.
3) REFER TO SHEAR WALL & HOLDOWN SCHEDULES ON SHEET S0.03.
4) SHEARWALLS/HOLDOWNS DESIGNATED AS FOLLOWS:



5) ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS A STRUCTURAL SHEARWALL SHALL BE SHEATHED w/ 7/16" OSB w/ 8d NAILS @ 6"oc EDGES @ 12"oc FIELD.
6) REFER TO DETAILS 15 THRU 15D ON S0.20 FOR SILL PLATE AND RIM BOARD ATTACHMENT AT EXTENTS OF SHEARWALLS.
7) ADDITIONAL SHEARWALL & HOLDOWN INFORMATION FOR THE CLUB AREA, 5TH FLOOR OVER THE CLUB AND EAST TOWER PER S1.17C AND S1.16E

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07.19050.08
Date:	06.28.2022
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REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Structural Engineers
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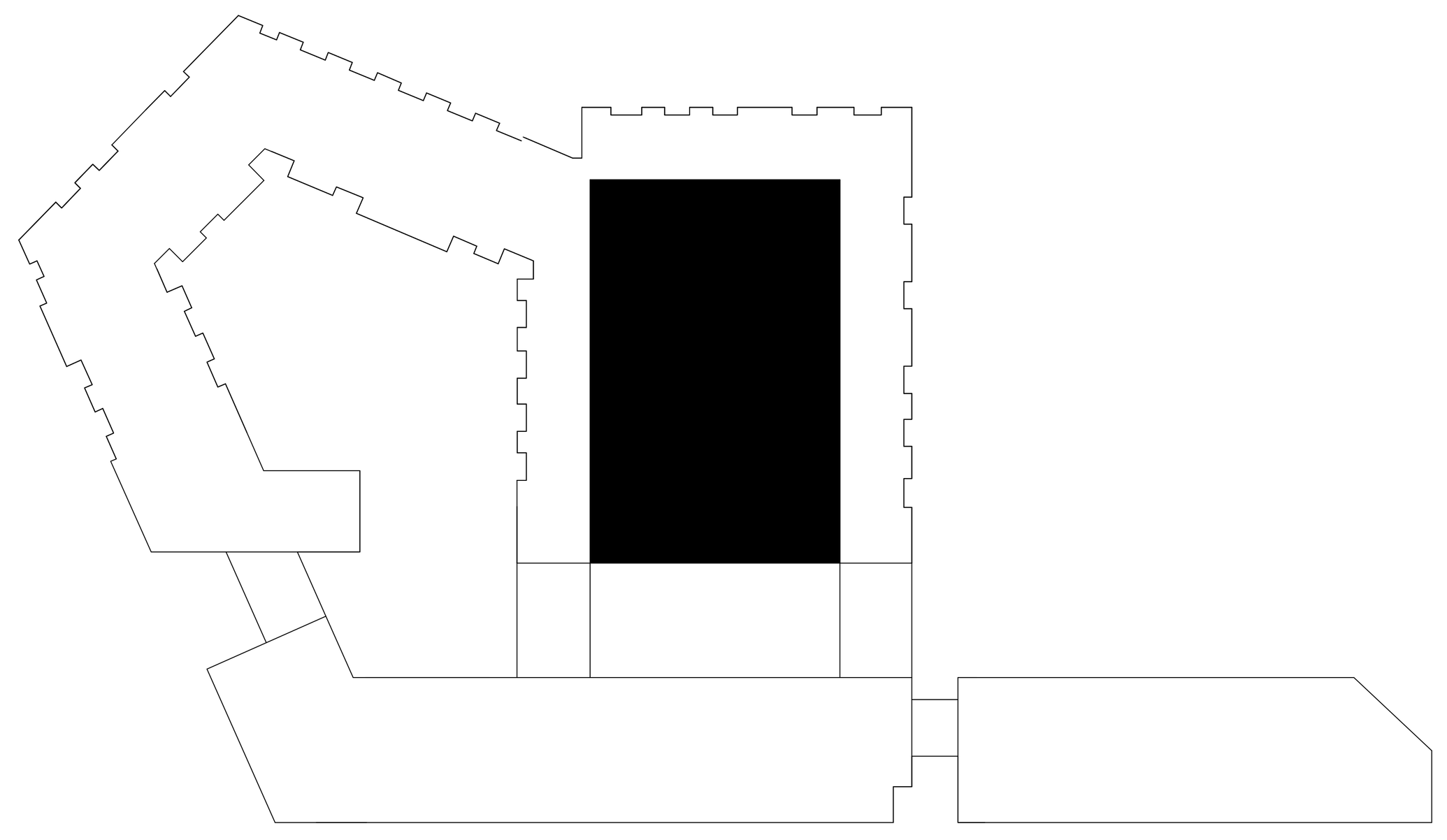
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

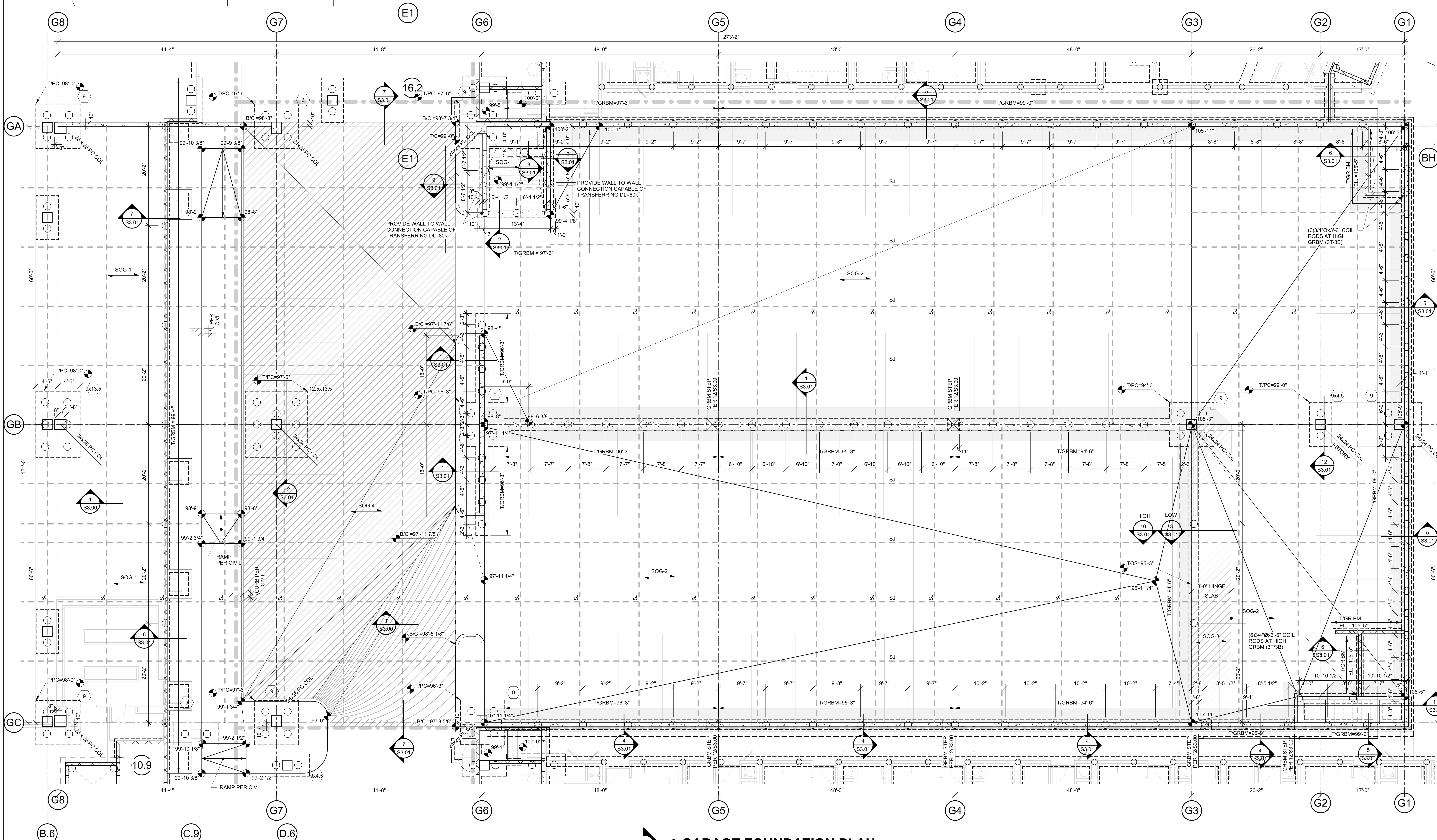
SHEET TITLE

BUILDING F SHEARWALL PLAN

SHEET NUMBER

S1.67F





1 GARAGE FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES - GARAGE:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO PILE CAP SCHEDULE ON S3.02.
3. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
4. ELEVATION 100'-0" EQUALS CIVIL DATUM ELEVATION 820.67.
5. TOP OF EXTERIOR FOOTINGS = 99'-0", UNO
6. TOP OF INTERIOR PILE CAPS = 98'-6" UNO
7. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
8. REFER TO S3.00-SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.

PILES AND PILE DIMENSION ADDED

paragon star

PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
1	6.08.22	Permit Response
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI CHRISTOPHER A. BEVERLIN Number PE-2017012503 PROFESSIONAL ENGINEER 7-22-22

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

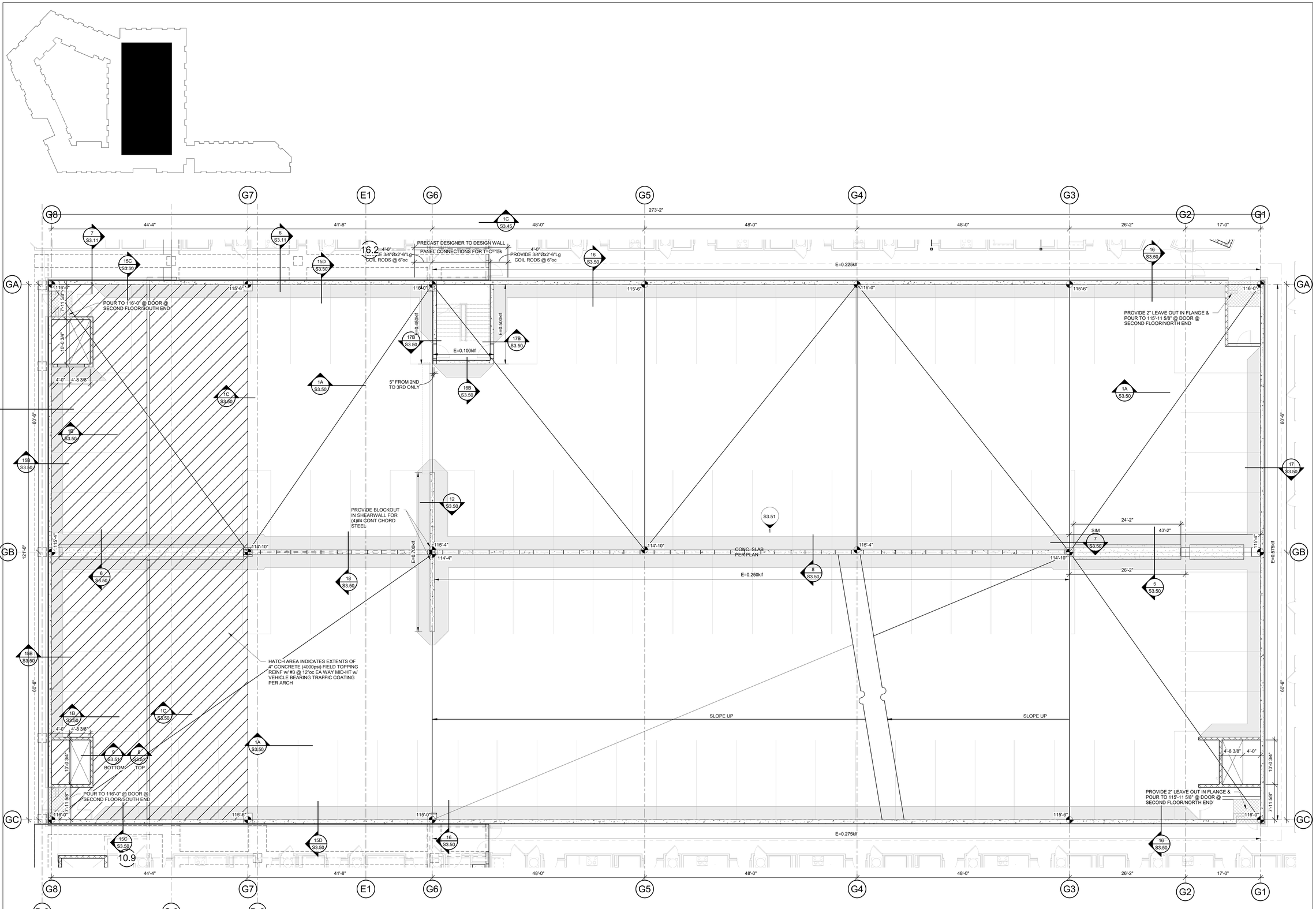
BOB D. CAMPBELL & CO.
Structural Engineers Since 1957
4338 Belleview Ave. 816.531.4144
Kansas City, MO 64111 www.bdc-engrs.com

SHEET TITLE

GARAGE FOUNDATION PLAN

SHEET NUMBER

S1.71G



1 GARAGE SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

FRAMING NOTES - GARAGE:

1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
3. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT DRAINS.
4. REFER TO S3.50-SERIES DRAWINGS FOR TYPICAL GARAGE FRAMING DETAILS.
5. ELEVATIONS INDICATED ARE TO TOP OF PRECAST AND DO NOT INCLUDE THE WASH.
6. TOP OF SLAB ELEVATION AT DOORS FROM GARAGE TO APARTMENT SHALL EQUAL THE NOMINAL FLOOR ELEVATION OF THE APARTMENT. FEATHER WASH/TOPPING AT DOOR TO 1:48 MAX SLOPE.
7. PROVIDE ALLOWANCE OF 70psf DEAD LOAD IN PRECAST DESIGN AT ALL CMU WALLS SHOWN IN GARAGE
8. TYPICAL PIPE PROTECTION PER SECTION 7/S3.51

C:\Users\CAB\Documents\FWI2101 - S21 - Paragon Star_cbenvelin\PSVCB.rvt

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
1	6.08.22	Permit Response

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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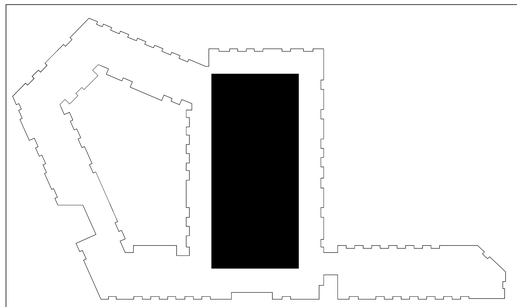
816.531.4144
www.bdc-engrs.com

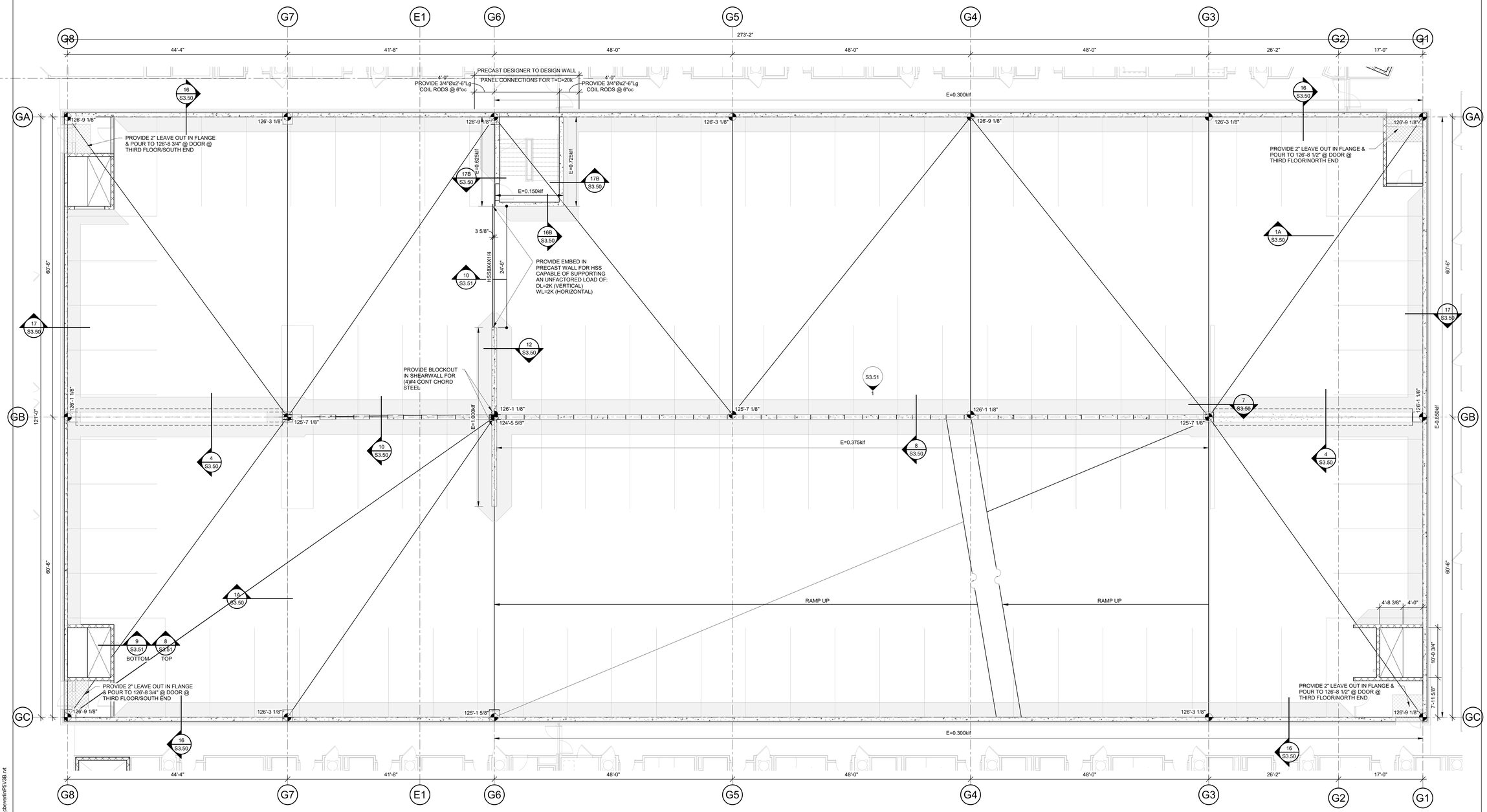
SHEET TITLE

GARAGE SECOND FLOOR FRAMING PLAN

SHEET NUMBER

S1.72G





1 GARAGE THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"

FRAMING NOTES - GARAGE:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
3. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT DRAINS.
4. REFER TO S3.50-SERIES DRAWINGS FOR TYPICAL GARAGE FRAMING DETAILS.
5. ELEVATIONS INDICATED ARE TO TOP OF PRECAST AND DO NOT INCLUDE THE WASH.
6. TOP OF SLAB ELEVATION AT DOORS FROM GARAGE TO APARTMENT SHALL EQUAL THE NOMINAL FLOOR ELEVATION OF THE APARTMENT. FEATHER WASH/TOPPING AT DOOR TO 1:48 MAX SLOPE.
7. PROVIDE ALLOWANCE OF 700plf DEAD LOAD IN PRECAST DESIGN AT ALL CMU WALLS SHOWN IN GARAGE
8. TYPICAL PIPE PROTECTION PER SECTION 7/S3.51

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVELIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Structural Engineers
Since 1957
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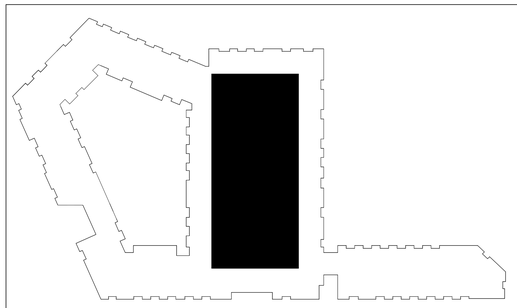
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

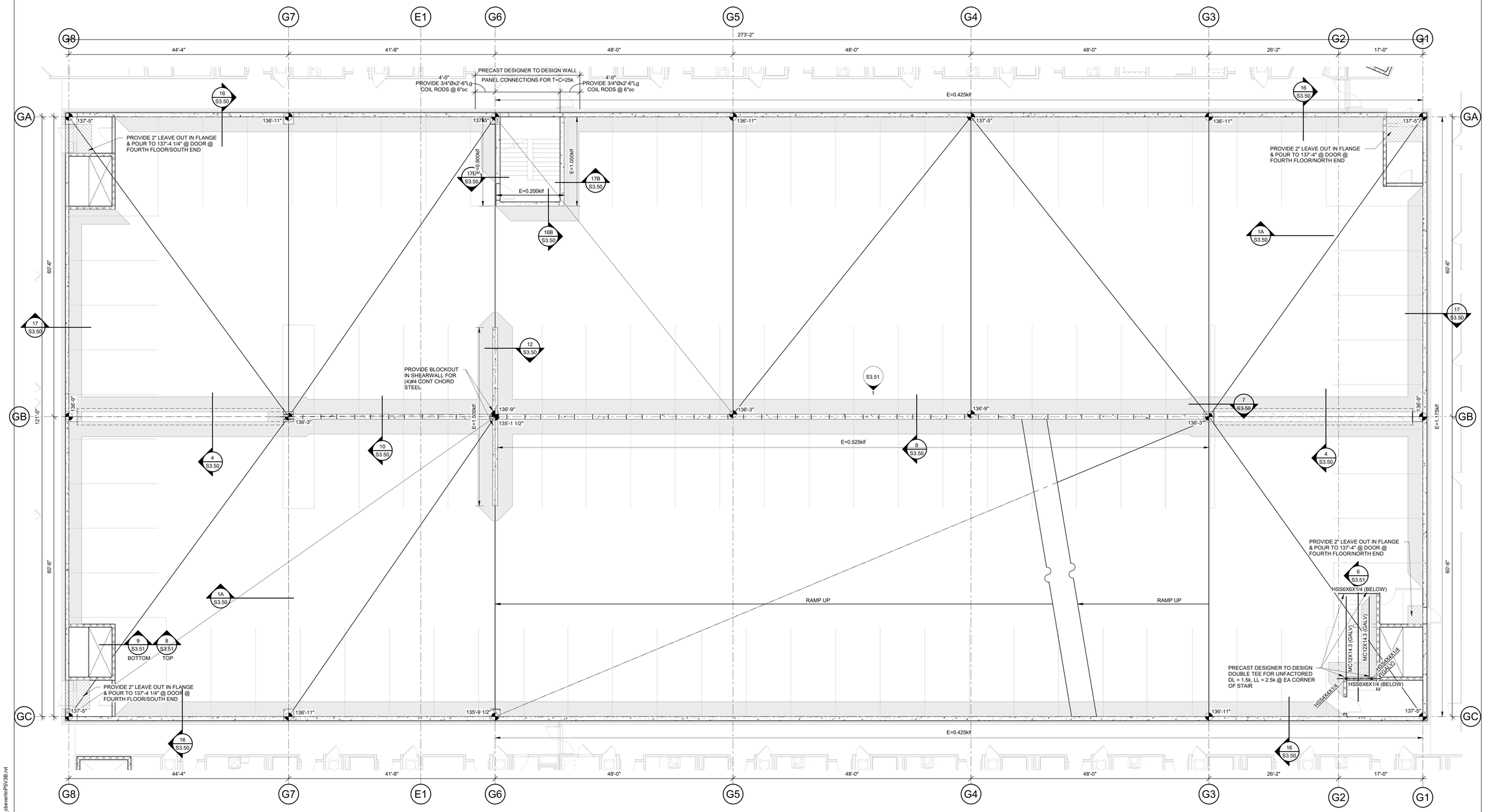
SHEET TITLE

GARAGE THIRD FLOOR FRAMING PLAN

SHEET NUMBER

S1.73G





1 GARAGE FOURTH FLOOR FRAMING PLAN

1/8" = 1'-0"

FRAMING NOTES - GARAGE:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
3. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT DRAINS.
4. REFER TO S3.50-SERIES DRAWINGS FOR TYPICAL GARAGE FRAMING DETAILS.
5. ELEVATIONS INDICATED ARE TO TOP OF PRECAST AND DO NOT INCLUDE THE WASH.
6. TOP OF SLAB ELEVATION AT DOORS FROM GARAGE TO APARTMENT SHALL EQUAL THE NOMINAL FLOOR ELEVATION OF THE APARTMENT. FEATHER WASH/TOPPING AT DOOR TO 1:48 MAX SLOPE.
7. PROVIDE ALLOWANCE OF 700plf DEAD LOAD IN PRECAST DESIGN AT ALL CMU WALLS SHOWN IN GARAGE
8. TYPICAL PIPE PROTECTION PER SECTION 7/S3.51

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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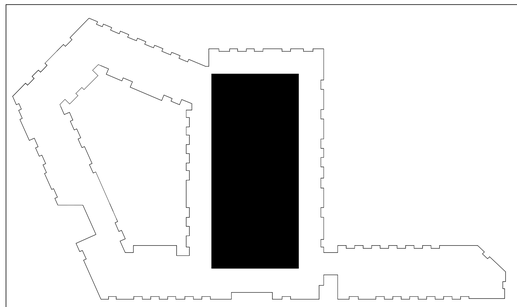
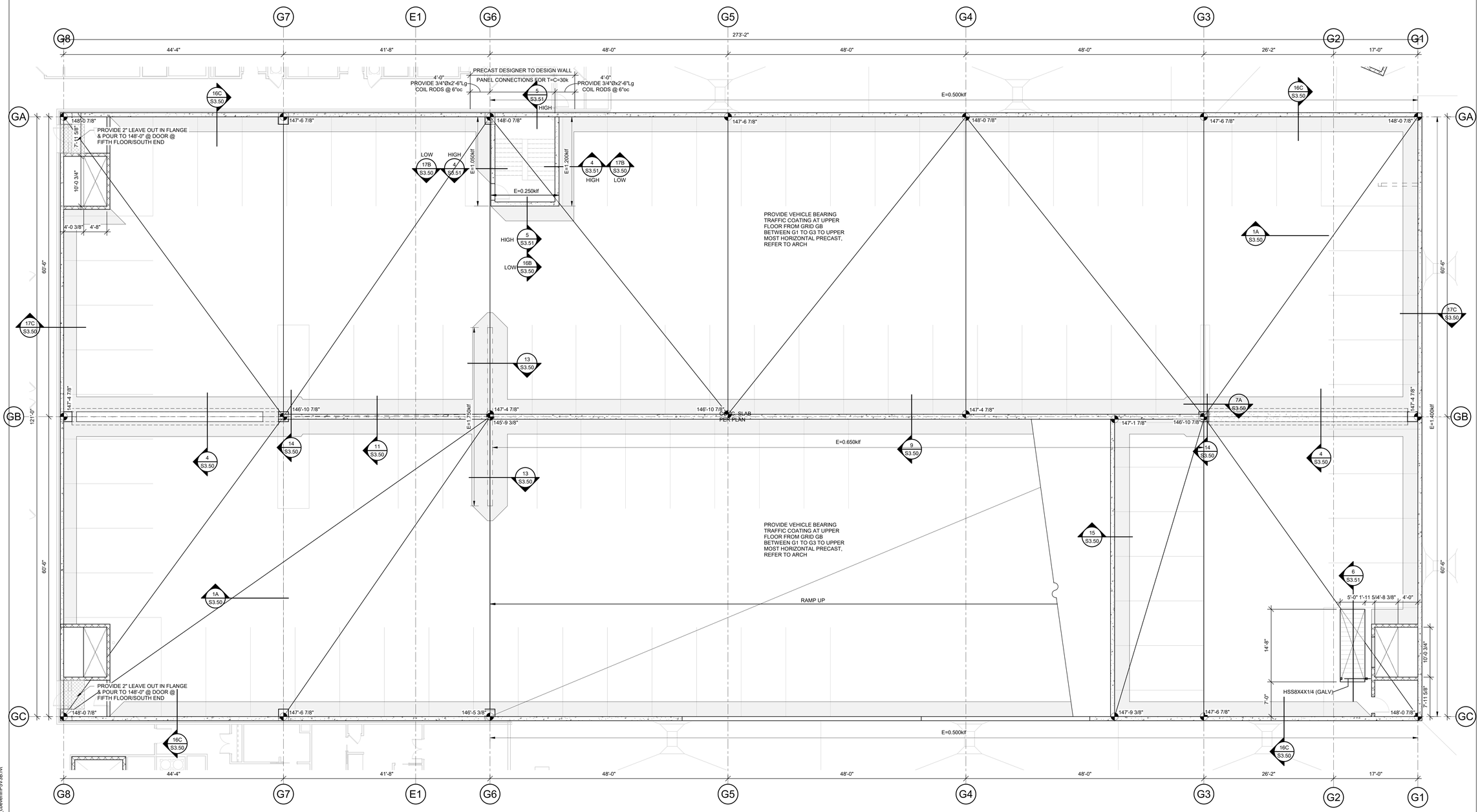
SHEET TITLE

GARAGE FOURTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.74G





1 GARAGE FIFTH FLOOR FRAMING PLAN

1/8" = 1'-0"

FRAMING NOTES - GARAGE:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
3. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF SPOT DRAINS.
4. REFER TO S3.50-SERIES DRAWINGS FOR TYPICAL GARAGE FRAMING DETAILS.
5. ELEVATIONS INDICATED ARE TO TOP OF PRECAST AND DO NOT INCLUDE THE WASH.
6. TOP OF SLAB ELEVATION AT DOORS FROM GARAGE TO APARTMENT SHALL EQUAL THE NOMINAL FLOOR ELEVATION OF THE APARTMENT. FEATHER WASH/TOPPING AT DOOR TO 1:48 MAX SLOPE.
7. PROVIDE ALLOWANCE OF 700plf DEAD LOAD IN PRECAST DESIGN AT ALL CMU WALLS SHOWN IN GARAGE
8. TYPICAL PIPE PROTECTION PER SECTION 7/S3.51

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REVISIONS

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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Kansas City, MO 64111
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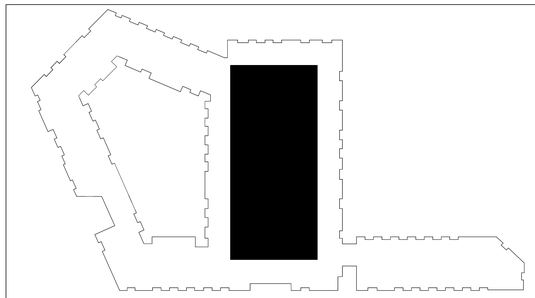
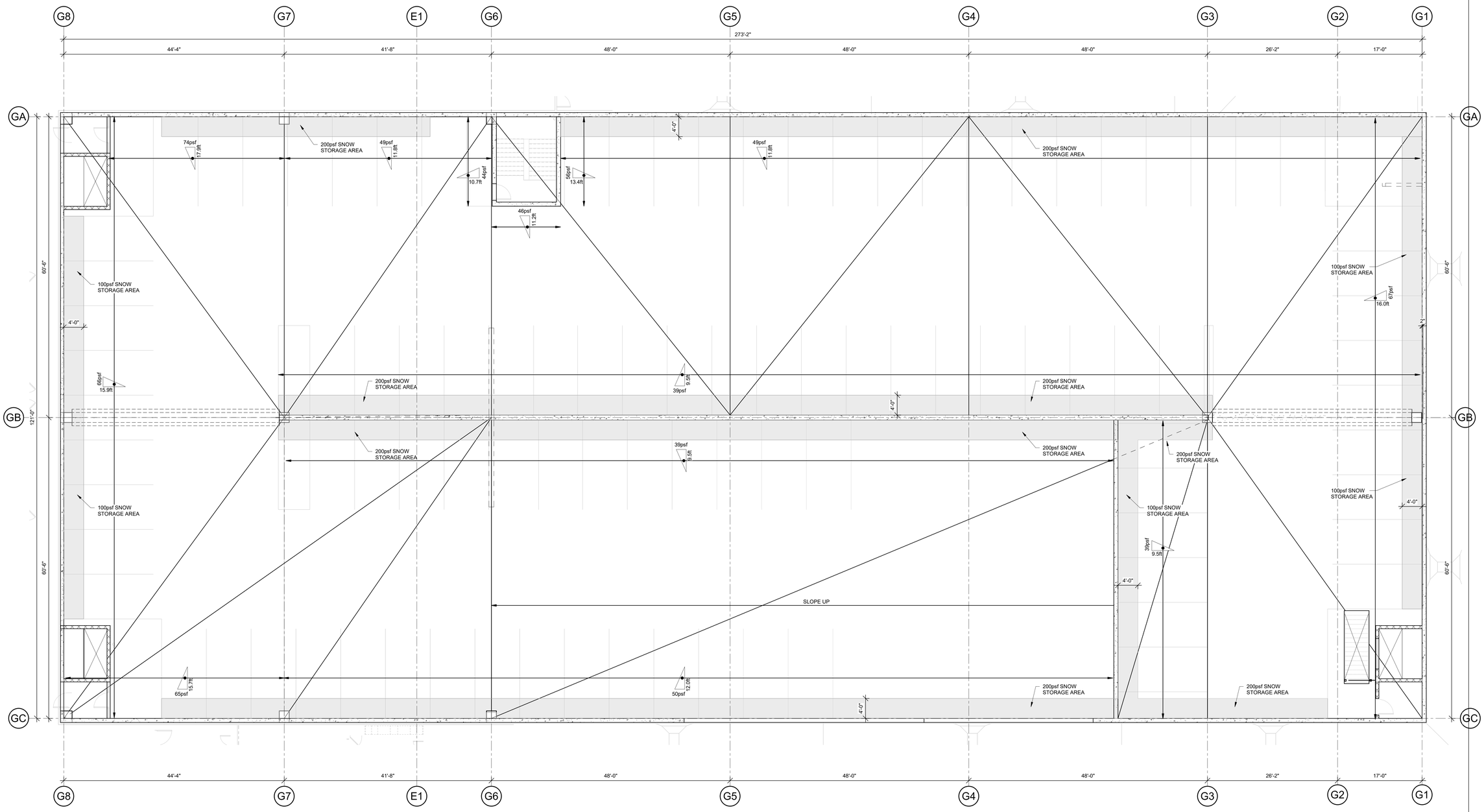
SHEET TITLE

GARAGE FIFTH FLOOR FRAMING PLAN

SHEET NUMBER

S1.75G





GARAGE SNOW LOADING PLAN AT TOP FLOOR

1/8" = 1'-0"

NOTES:
1. SNOW STORAGE SHOWN IN HATCH IS ADDITIONAL TO SNOW DRIFT SHOWN WITH TRIANGULAR LOADING SYMBOL.
2. PROVIDE ALLOWANCE OF 700plf DEAD LOAD IN PRECAST DESIGN AT ALL CMU WALLS SHOWN IN GARAGE.

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
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REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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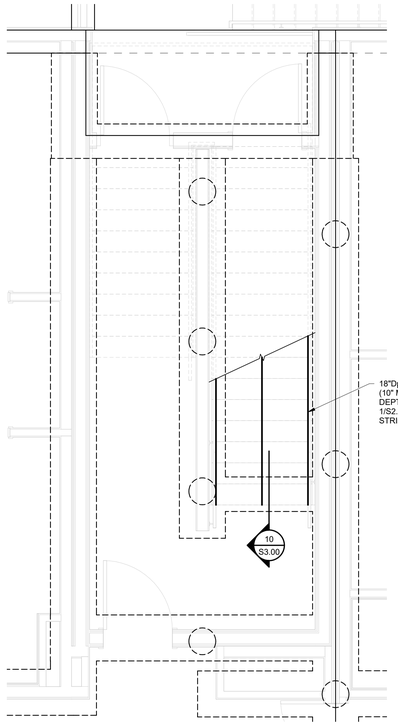
SHEET TITLE

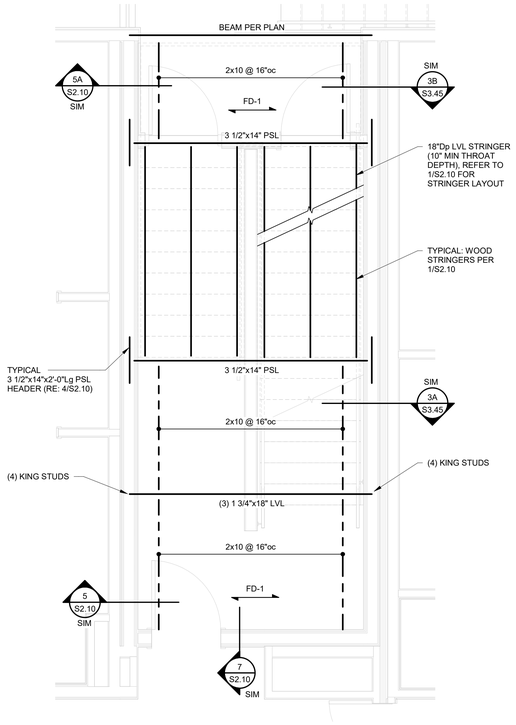
GARAGE SNOW LOADING PLAN

SHEET NUMBER

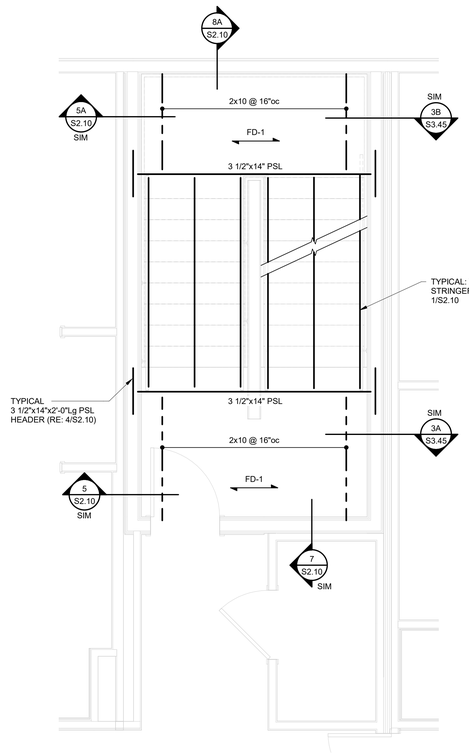
S1.76G



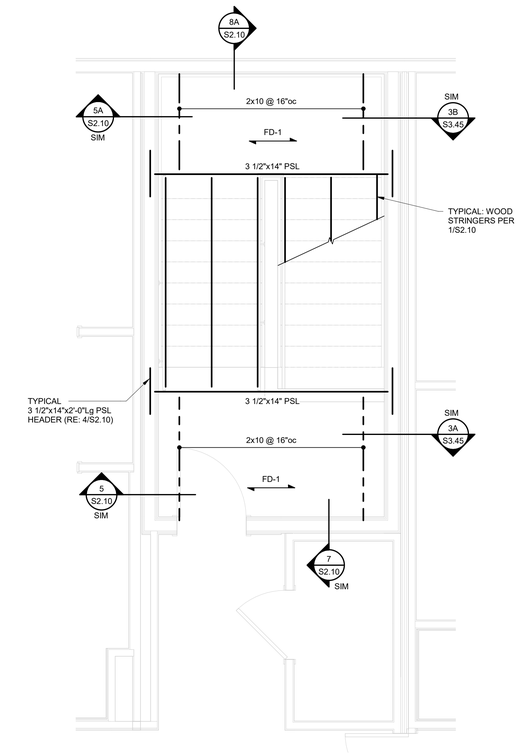
1 BUILDING A - FOUNDATION STAIR PLAN
3/8" = 1'-0"



2 BUILDING A - SECOND FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"



3 BUILDING A - THIRD FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"



4 BUILDING A - FOURTH FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"

BUILDING A STAIR - JAMB SCHEDULE				
MEMBER	JAMB LEVEL			NOTES
	1ST FLOOR	2ND FLOOR	3RD FLOOR	
2'-0"Lg PSL HEADER	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	
PSL LANDING BEAM	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	PROVIDE 1/4"Ø x4 1/2"Lg SDS SCREWS INTO HEADER

WOOD STAIR FRAMING NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S0.02
3. REFER TO BUILDING PLANS FOR HEADER AND BEAM CALLOUTS NOT SHOWN IN ENGLARGED PLANS. HEADER AND BEAM SCHEDULE ON SHEET S0.02
4. REFER TO STAIR FRAMING DETAILS ON SHEET S2.10

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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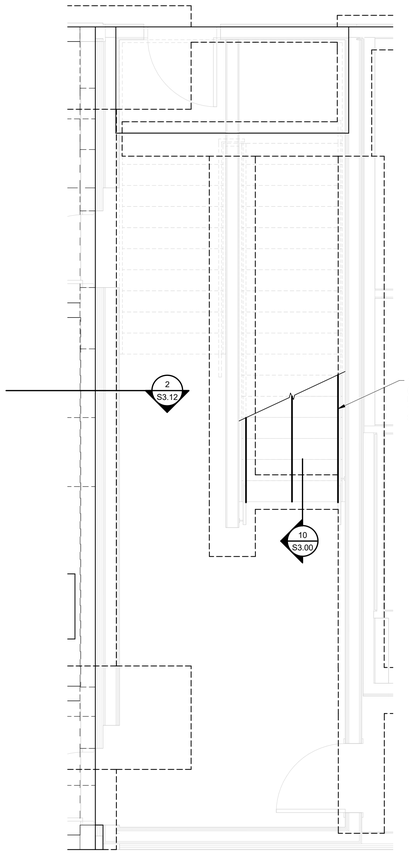
Structural Engineers
Since 1957
4338 Belleview Ave.
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

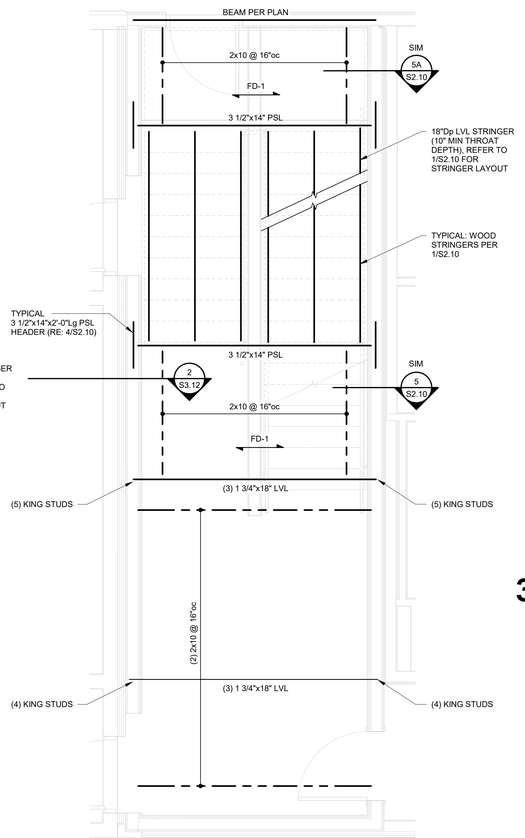
SHEET TITLE

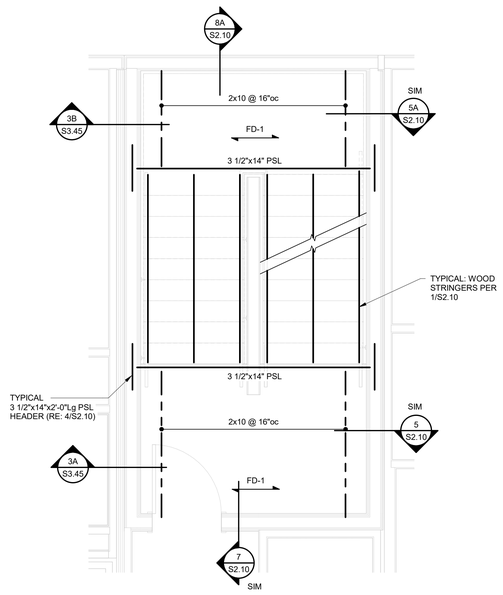
STAIR FRAMING - BUILDING A

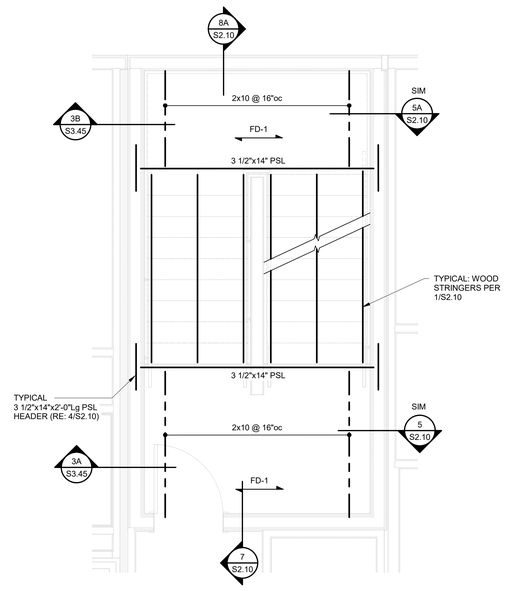
SHEET NUMBER

S2.00







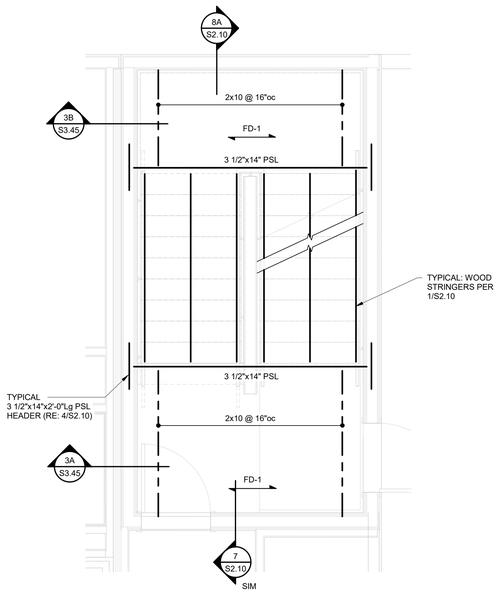


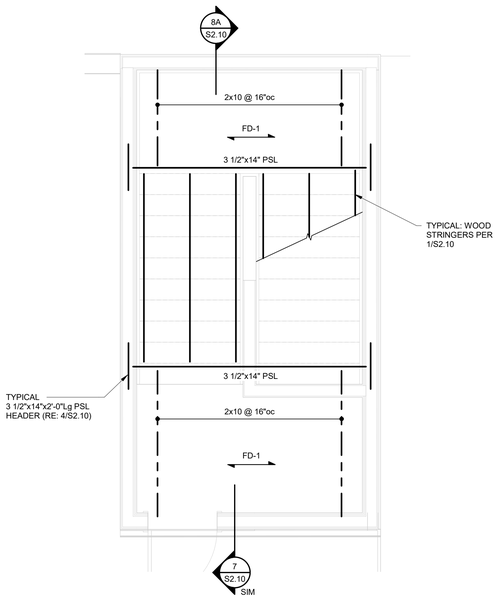
1 BUILDING B - FOUNDATION STAIR PLAN
3/8" = 1'-0"

2 BUILDING B - SECOND FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"

3 BUILDING B - THIRD FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"

4 BUILDING B - FOURTH FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"





5 BUILDING B - FIFTH FLOOR FRAMING PLAN
3/8" = 1'-0"

6 BUILDING B - ROOF FRAMING STAIR PLAN
3/8" = 1'-0"

BUILDING B STAIR - JAMB SCHEDULE						
MEMBER	JAMB LEVEL					NOTES
	1ST FLOOR	2ND FLOOR	3RD FLOOR	4TH FLOOR	5TH FLOOR	
2'-0"Lg PSL HEADER	1 JACK / 3 KING	1 JACK / 3 KING	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	
PSL LANDING BEAM	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	PROVIDE 1/4"Øx4 1/2"Lg SDS SCREWS INTO HEADER

WOOD STAIR FRAMING NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S0.02
3. REFER TO BUILDING PLANS FOR HEADER AND BEAM CALLOUTS NOT SHOWN IN ENGLARGED PLANS. HEADER AND BEAM SCHEDULE ON SHEET S0.02
4. REFER TO STAIR FRAMING DETAILS ON SHEET S2.10

paragon star

PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
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REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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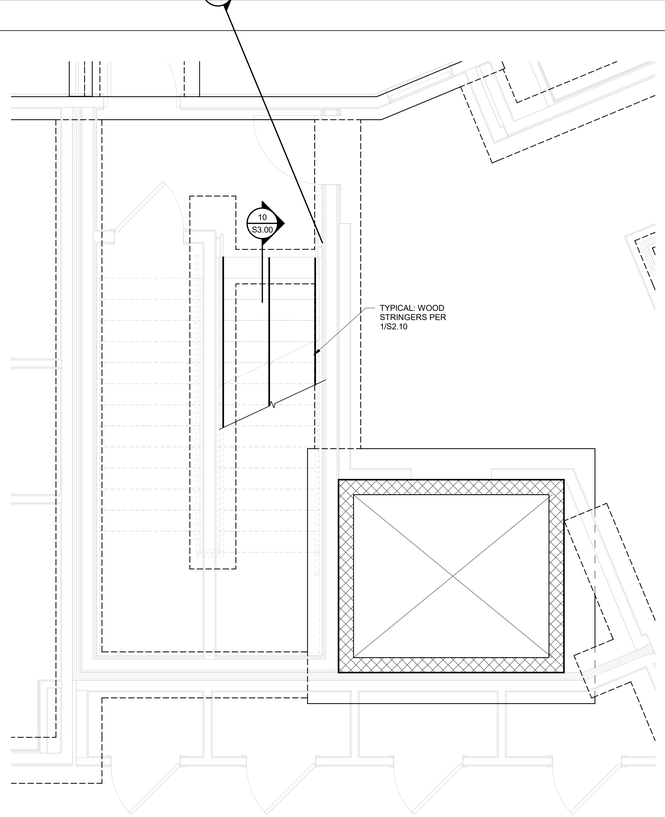
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

SHEET TITLE

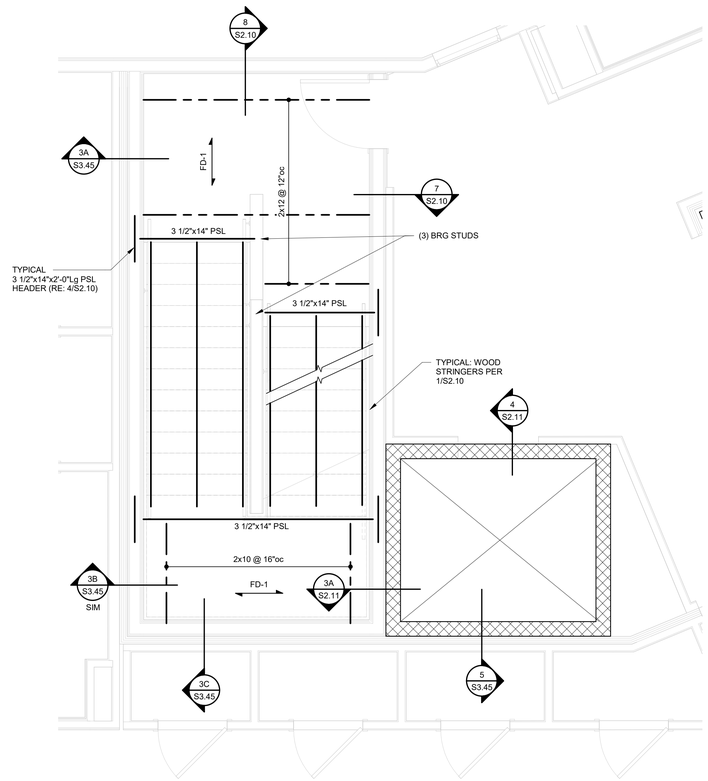
STAIR FRAMING - BUILDING B

SHEET NUMBER

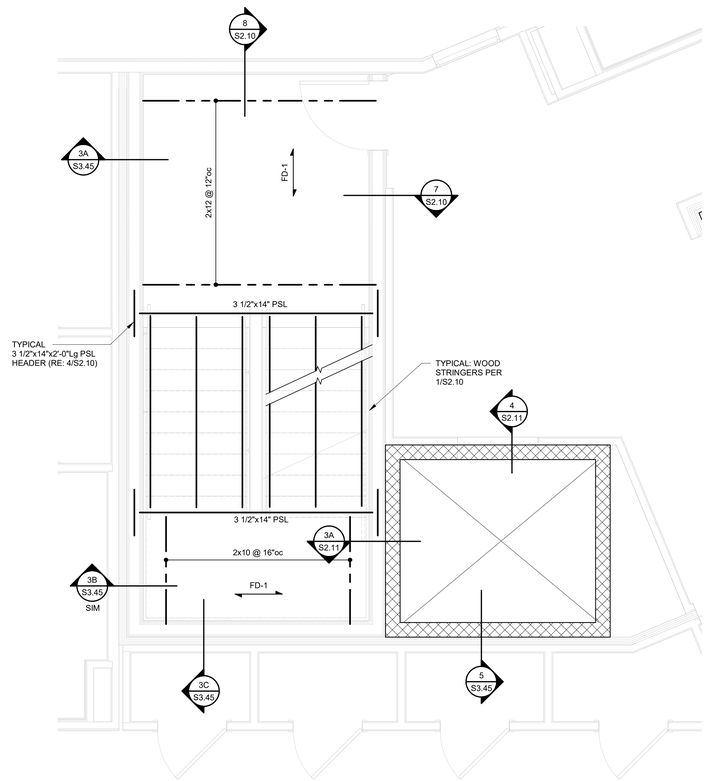
S2.01



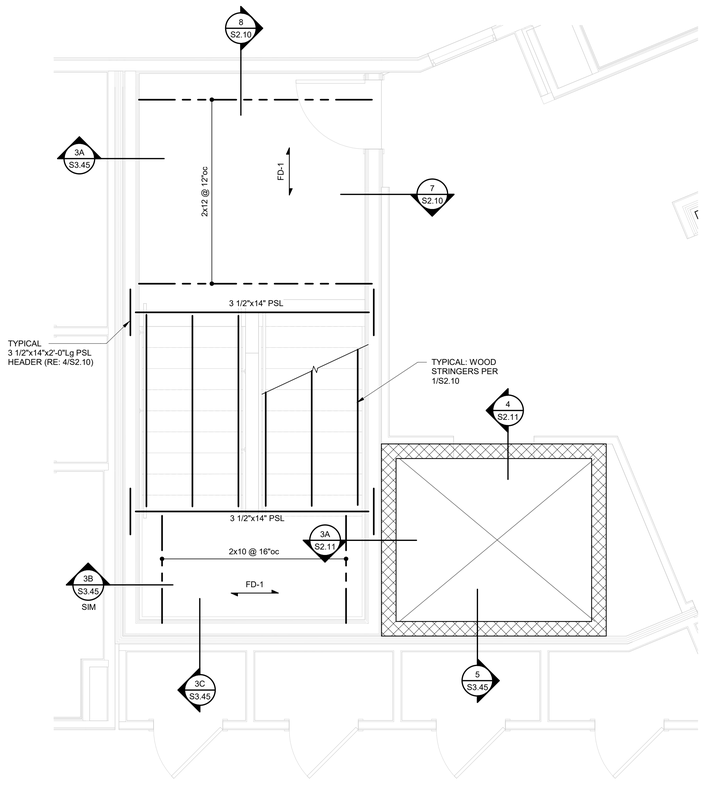
1 BUILDING C - FOUNDATION STAIR & ELEVATOR PLAN
3/8" = 1'-0"



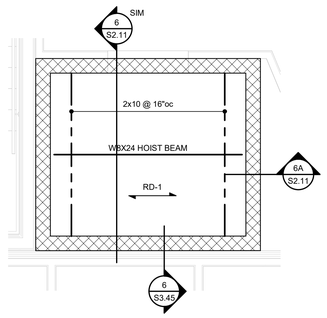
2 BUILDING C - SECOND FLOOR FRAMING STAIR & ELEVATOR PLAN
3/8" = 1'-0"



3 BUILDING C - THIRD FLOOR FRAMING STAIR & ELEVATOR PLAN
3/8" = 1'-0"



4 BUILDING C - FOURTH FLOOR FRAMING STAIR & ELEVATOR PLAN
3/8" = 1'-0"



6 BUILDING C - ROOF ELEVATOR PLAN
3/8" = 1'-0"

BUILDING C STAIR - JAMB SCHEDULE

MEMBER	JAMB LEVEL			NOTES
	1ST FLOOR	2ND FLOOR	3RD FLOOR	
2'-0"Lg PSL HEADER	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	
PSL LANDING BEAM	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	PROVIDE 1/4"Ø x4 1/2"Lg SDS SCREWS INTO HEADER

WOOD STAIR FRAMING NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.01
2. REFER TO STUD BEARING WALL SCHEDULE ON SHEET S0.02
3. REFER TO BUILDING PLANS FOR HEADER AND BEAM CALLOUTS NOT SHOWN IN ENGLARGED PLANS. HEADER AND BEAM SCHEDULE ON SHEET S0.02
4. REFER TO STAIR FRAMING DETAILS ON SHEET S2.10

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07.19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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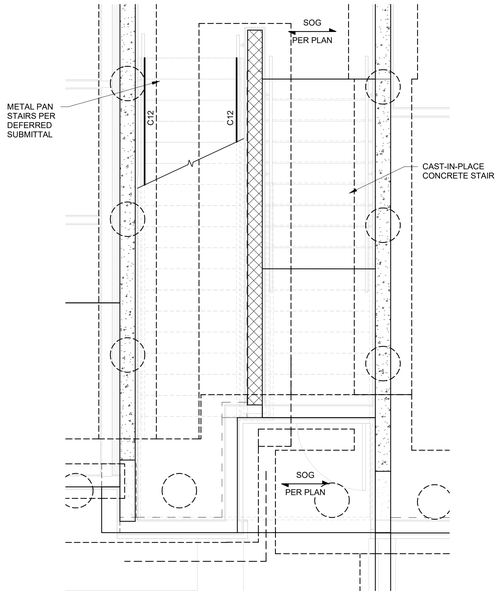
SHEET TITLE

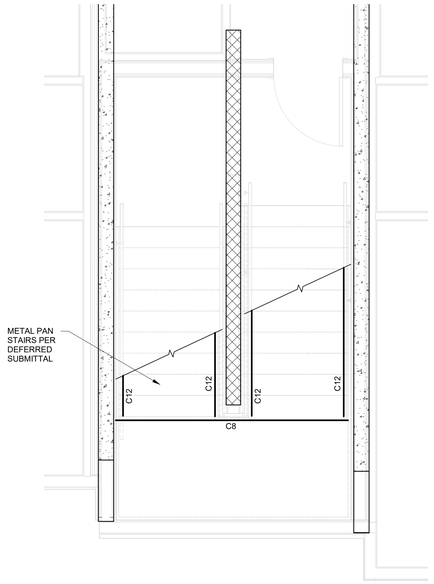
STAIR & ELEVATOR FRAMING - BUILDING C

SHEET NUMBER

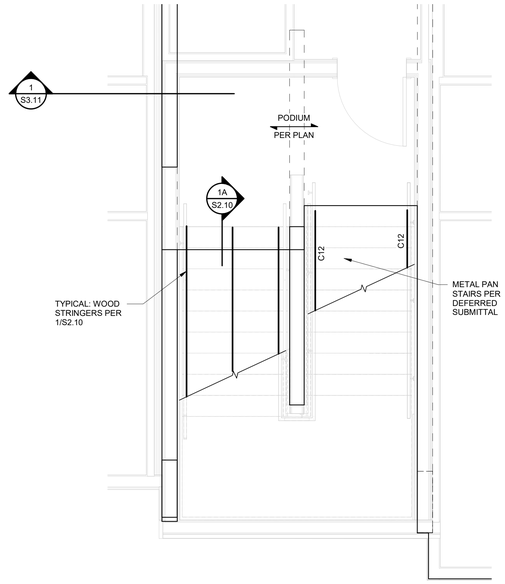
S2.02



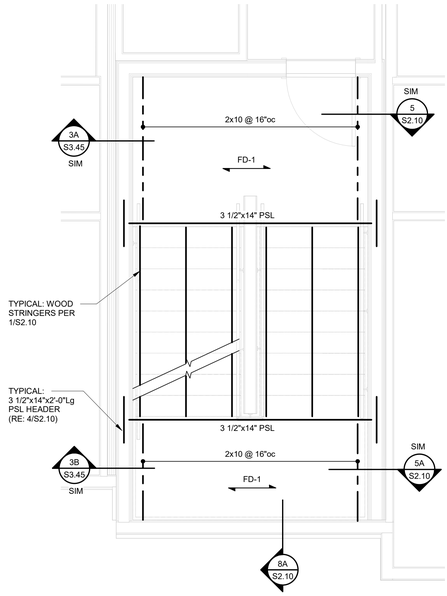
1 BUILDING D - FOUNDATION STAIR PLAN
3/8" = 1'-0"



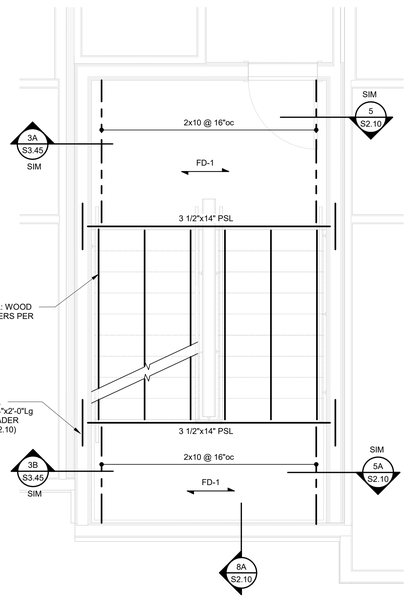
1A BUILDING D - FOUNDATION STAIR PLAN - MID-HEIGHT
3/8" = 1'-0"



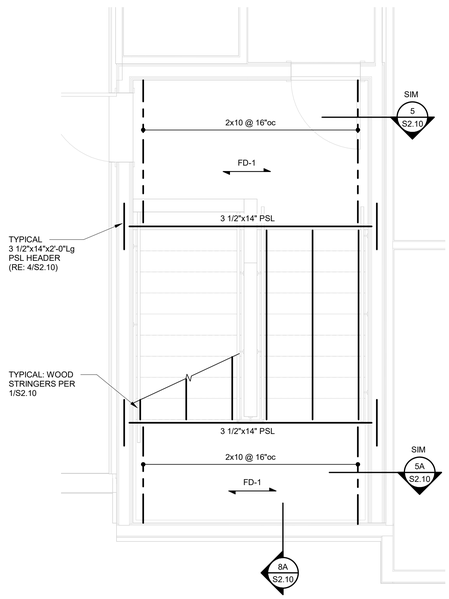
2 BUILDING D - SECOND FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"



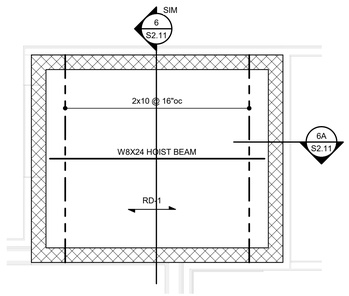
3 BUILDING D - THIRD FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"



4 BUILDING D - FOURTH FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"



5 BUILDING D - FIFTH FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"



6 BUILDING D - ROOF ELEVATOR PLAN
3/8" = 1'-0"

BUILDING D STAIR - JAMB SCHEDULE				
MEMBER	JAMB LEVEL			NOTES
	2ND FLOOR	3RD FLOOR	4TH FLOOR	
2'-0"Lg PSL HEADER	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	
PSL LANDING BEAM	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	PROVIDE 1/4"Øx4 1/2"Lg SDS SCREWS INTO HEADER

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4. REFER TO STAIR FRAMING DETAILS ON SHEET S2.10

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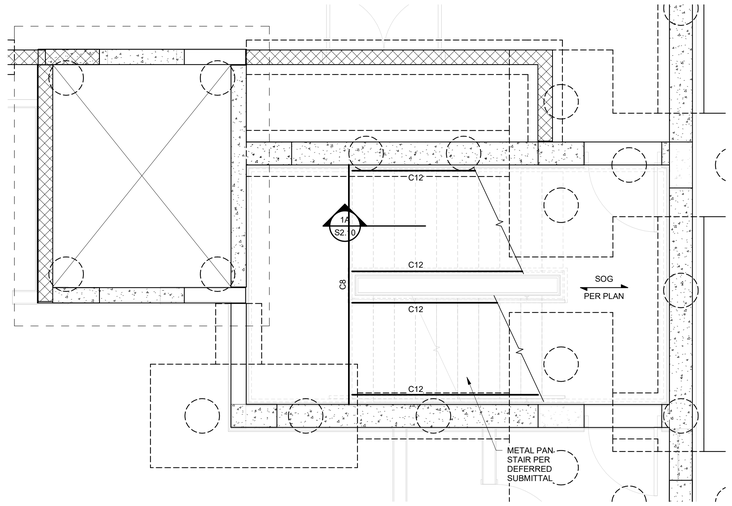
SHEET TITLE

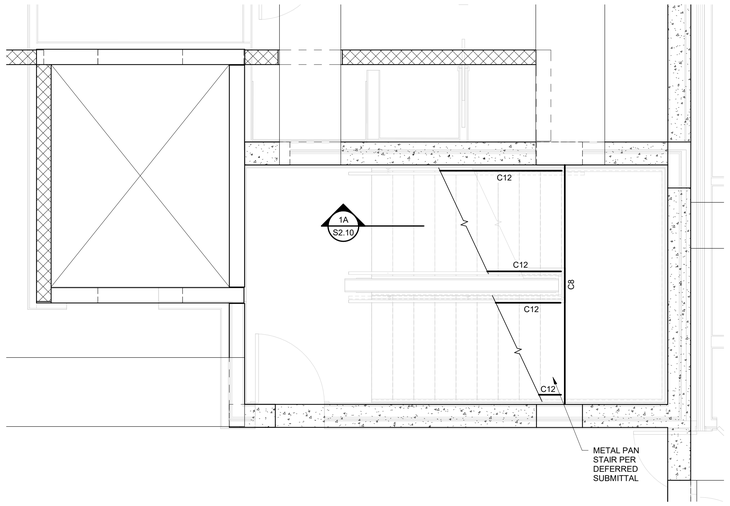
STAIR & ELEVATOR FRAMING - BUILDING D

SHEET NUMBER

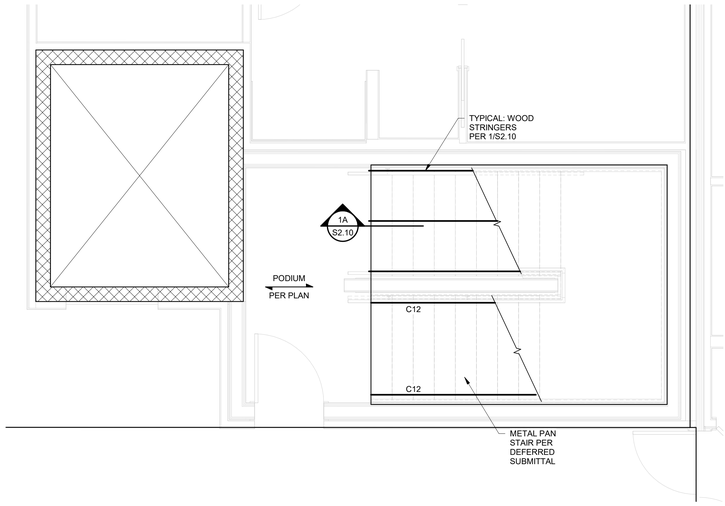
S2.03



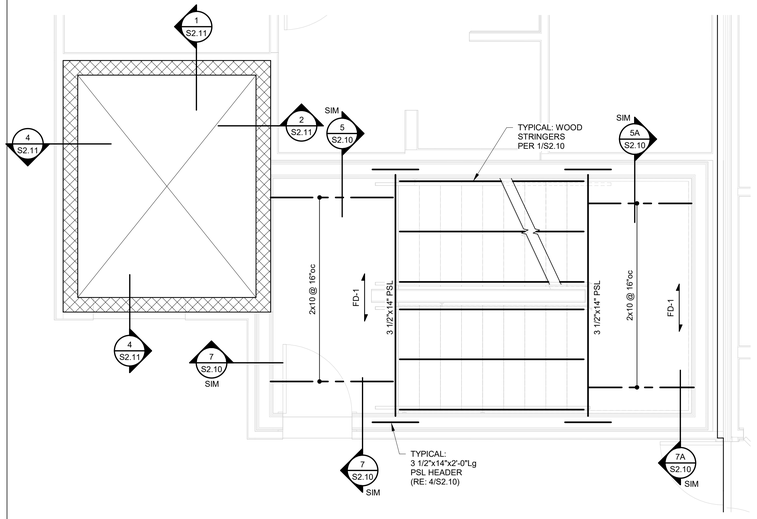
1 BUILDING E - FOUNDATION STAIR & ELEVATOR PLAN
3/8" = 1'-0"



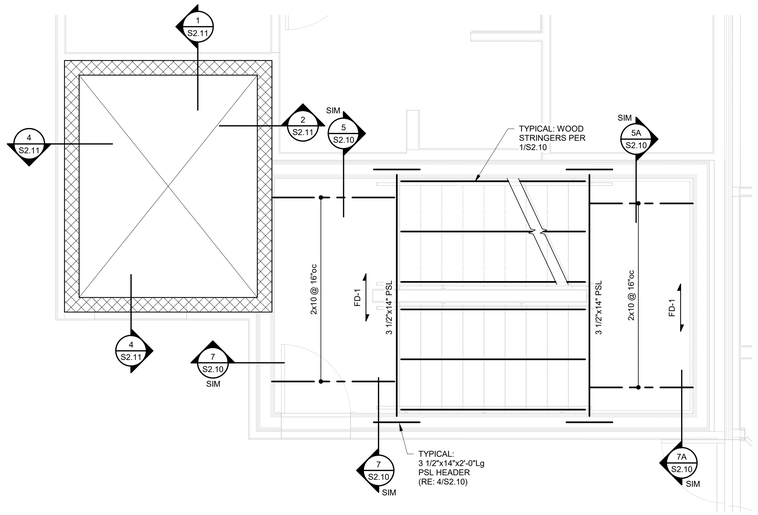
1A BUILDING E - FOUNDATION STAIR & ELEVATOR PLAN - MID-HEIGHT
3/8" = 1'-0"



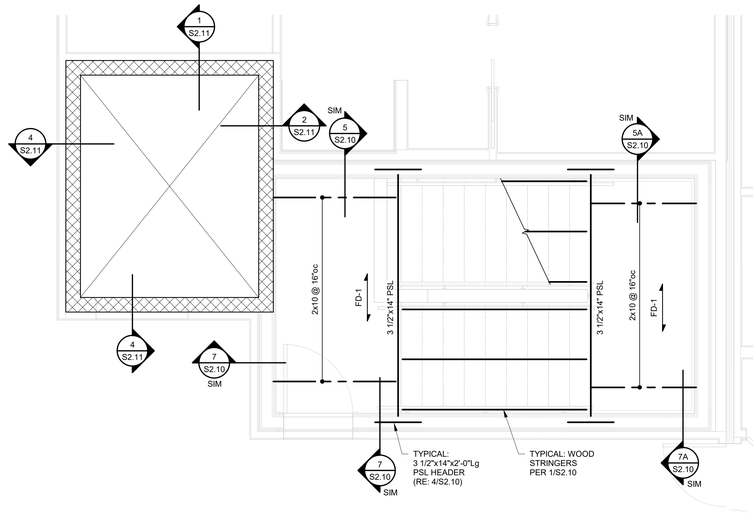
2 BUILDING E - SECOND FLOOR FRAMING STAIR & ELEVATOR PLAN
3/8" = 1'-0"



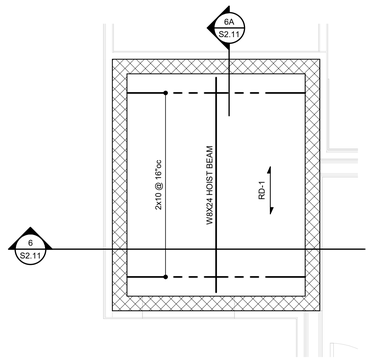
3 BUILDING E - THIRD FLOOR FRAMING STAIR & ELEVATOR PLAN
3/8" = 1'-0"



4 BUILDING E - FOURTH FLOOR FRAMING STAIR & ELEVATOR PLAN
3/8" = 1'-0"



5 BUILDING E - FIFTH FLOOR FRAMING STAIR & ELEVATOR PLAN
3/8" = 1'-0"



6 BUILDING E - ROOF ELEVATOR PLAN
3/8" = 1'-0"

BUILDING E STAIR - JAMB SCHEDULE

MEMBER	JAMB LEVEL			NOTES
	2ND FLOOR	3RD FLOOR	4TH FLOOR	
2'-0"Lg PSL HEADER	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	
PSL LANDING BEAM	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	PROVIDE 1/4"Ø x4 1/2"Lg SDS SCREWS INTO HEADER

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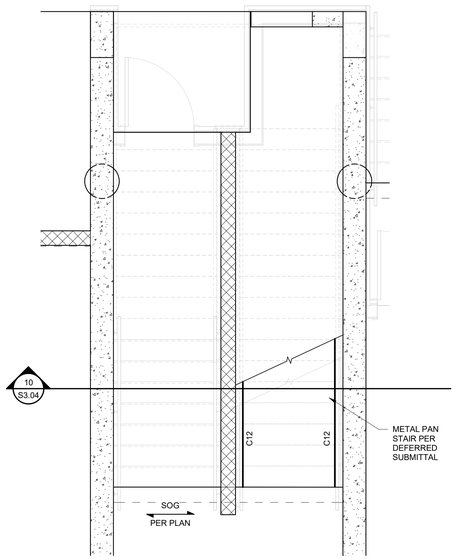
SHEET TITLE

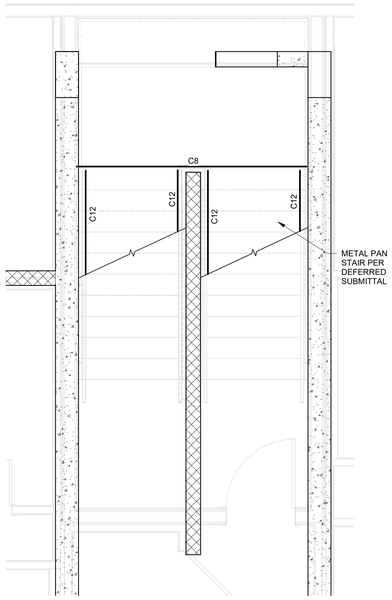
STAIR & ELEVATOR FRAMING - BUILDING E

SHEET NUMBER

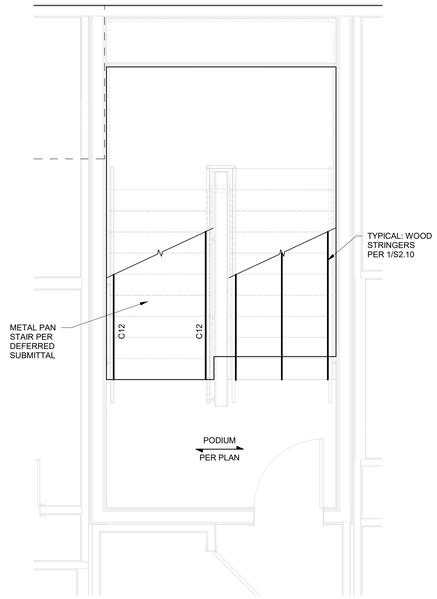
S2.04



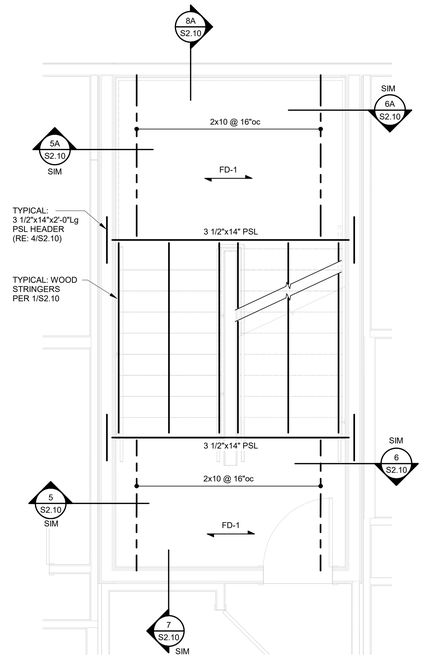
1 BUILDING F - FOUNDATION STAIR PLAN
3/8" = 1'-0"



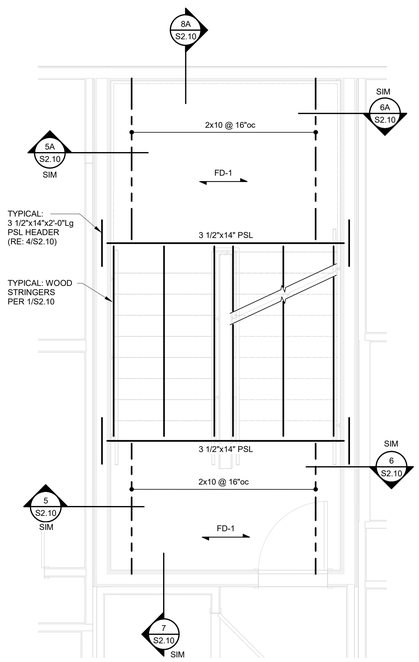
1A BUILDING F - FOUNDATION STAIR PLAN - MID-HEIGHT
3/8" = 1'-0"



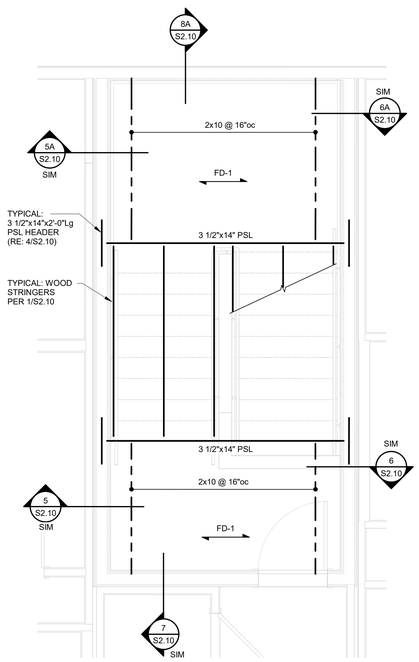
2 BUILDING F - SECOND FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"



3 BUILDING F - THIRD FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"



4 BUILDING F - FOURTH FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"



5 BUILDING F - FIFTH FLOOR FRAMING STAIR PLAN
3/8" = 1'-0"

BUILDING F STAIR - JAMB SCHEDULE				
MEMBER	JAMB LEVEL			NOTES
	2ND FLOOR	3RD FLOOR	4TH FLOOR	
2'-0"Lg PSL HEADER	1 JACK / 2 KING	1 JACK / 1 KING	1 JACK / 1 KING	
PSL LANDING BEAM	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	LGU3.63-SDS (H=14")	PROVIDE 1/4"Øx4 1/2"Lg SDS SCREWS INTO HEADER

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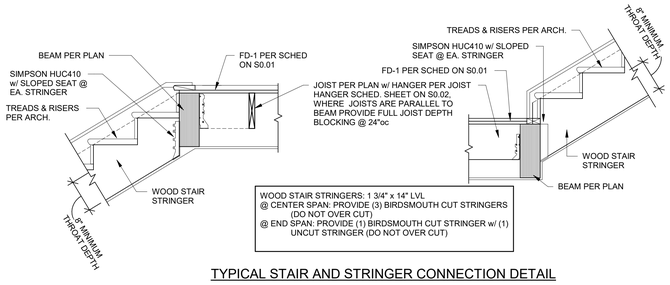
SHEET TITLE

STAIR FRAMING - BUILDING F

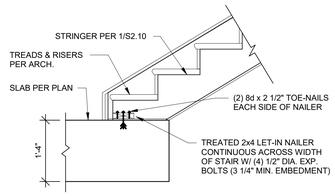
SHEET NUMBER

S2.05

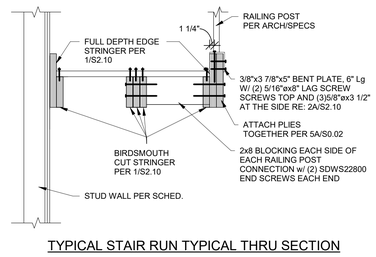


TYPICAL STAIR AND STRINGER CONNECTION DETAIL

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

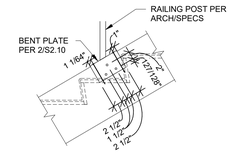


1A SECTION 3/4" = 1'-0"

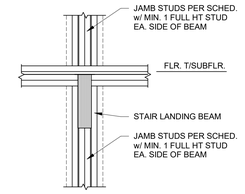


TYPICAL STAIR RUN TYPICAL THRU SECTION

2 SECTION 3/4" = 1'-0"

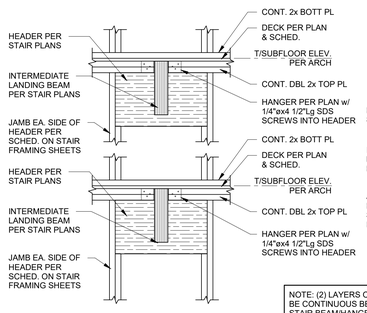


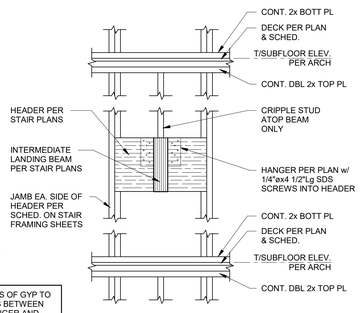
2A SECTION 3/4" = 1'-0"



TYPICAL STAIR BEAM JAMBS

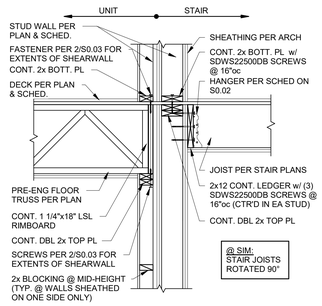
3 SECTION 3/4" = 1'-0"



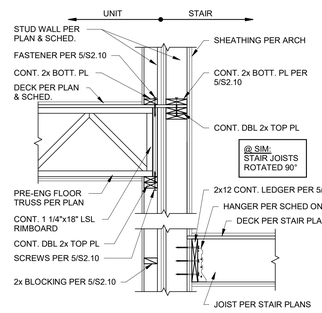


NOTE: (2) LAYERS OF GYP TO BE CONTINUOUS BETWEEN STAIR BEAM/HANGER AND STUD WALL

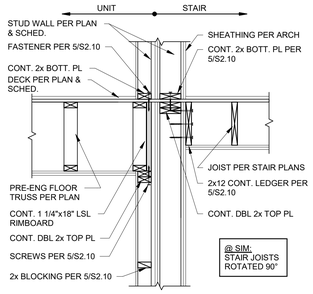
4 SECTION 3/4" = 1'-0"



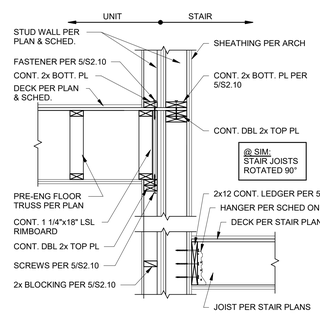
5 SECTION 3/4" = 1'-0"



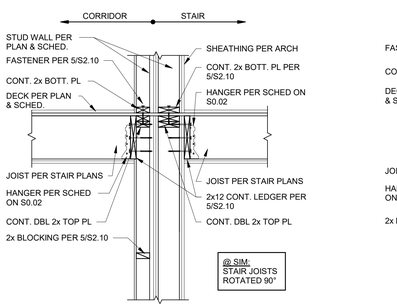
5A SECTION 3/4" = 1'-0"



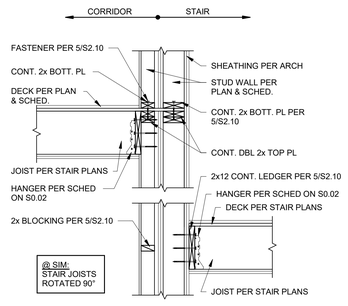
6 SECTION 3/4" = 1'-0"



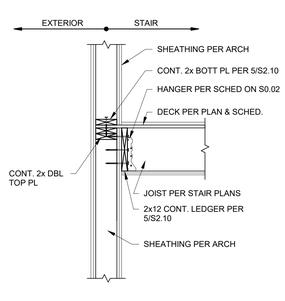
6A SECTION 3/4" = 1'-0"



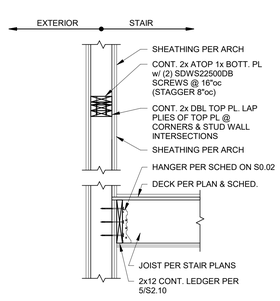
7 SECTION 3/4" = 1'-0"



7A SECTION 3/4" = 1'-0"



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



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

C:\Users\CAB\Documents\FW\21101 - S21 - Paragon Star_cberverlin\P5V3B.rvt

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

BOB D. CAMPBELL & CO.
Structural Engineers
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Kansas City, MO 64111
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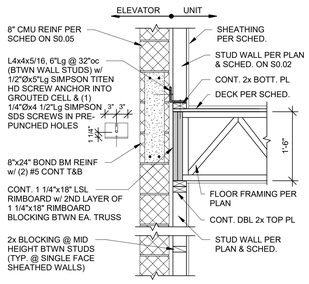
SHEET TITLE

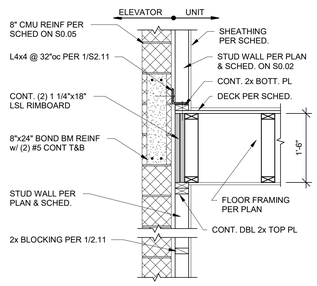
STAIR FRAMING DETAILS

SHEET NUMBER

S2.10



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



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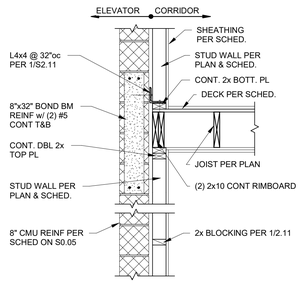
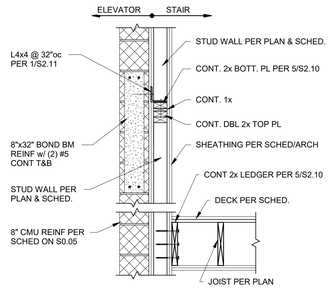
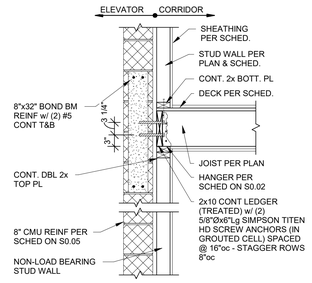
3/4" = 1'-0"



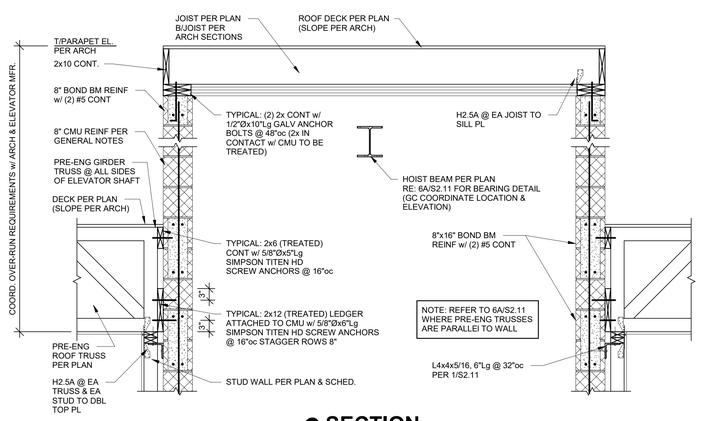
3 SECTION
3/4" = 1'-0"



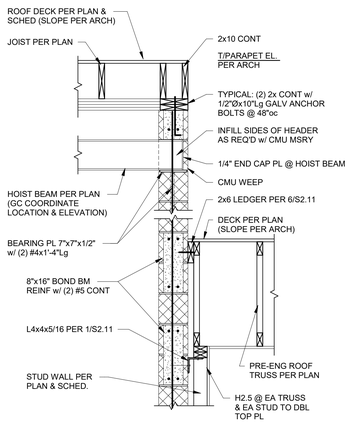
3A SECTION
3/4" = 1'-0"



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



6 SECTION
3/4" = 1'-0"



6A SECTION
3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
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Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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Kansas City, MO 64111
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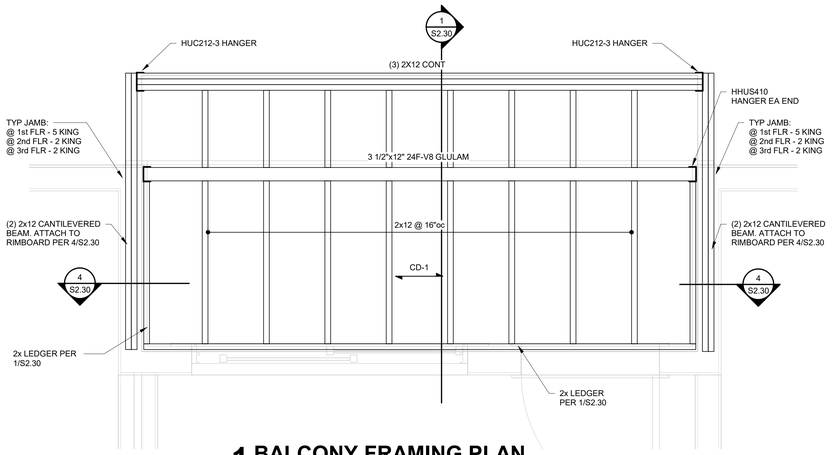
SHEET TITLE

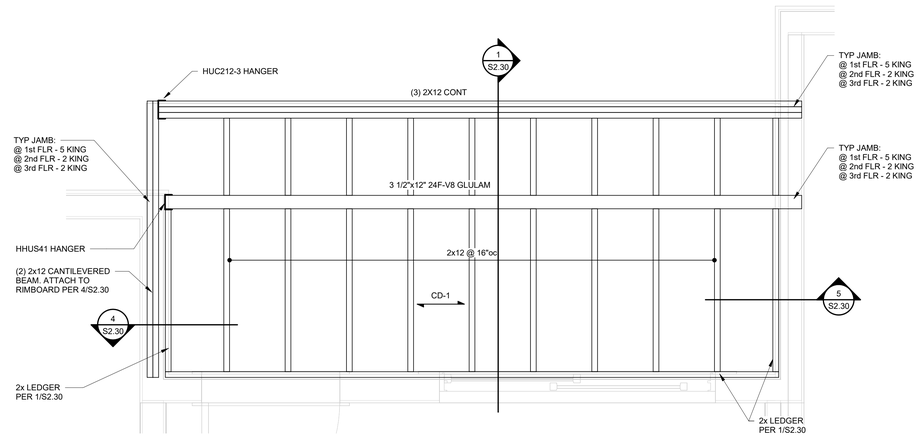
ELEVATOR FRAMING DETAILS

SHEET NUMBER

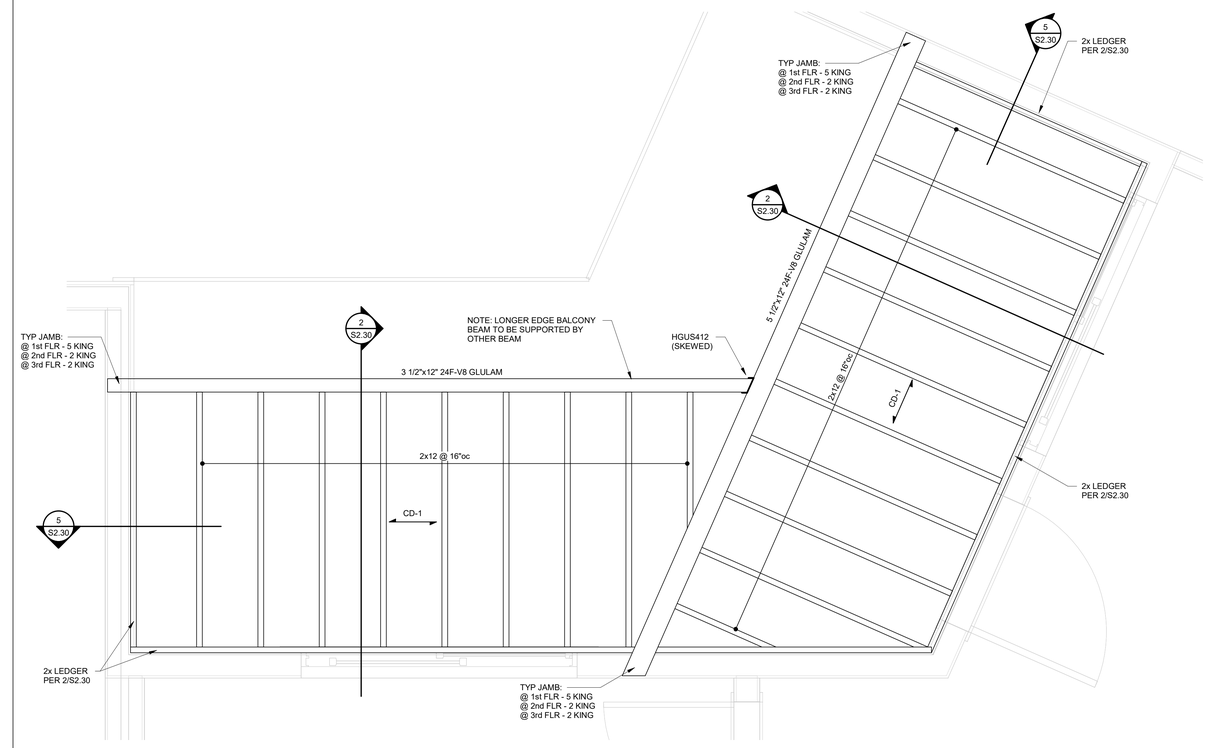
S2.11



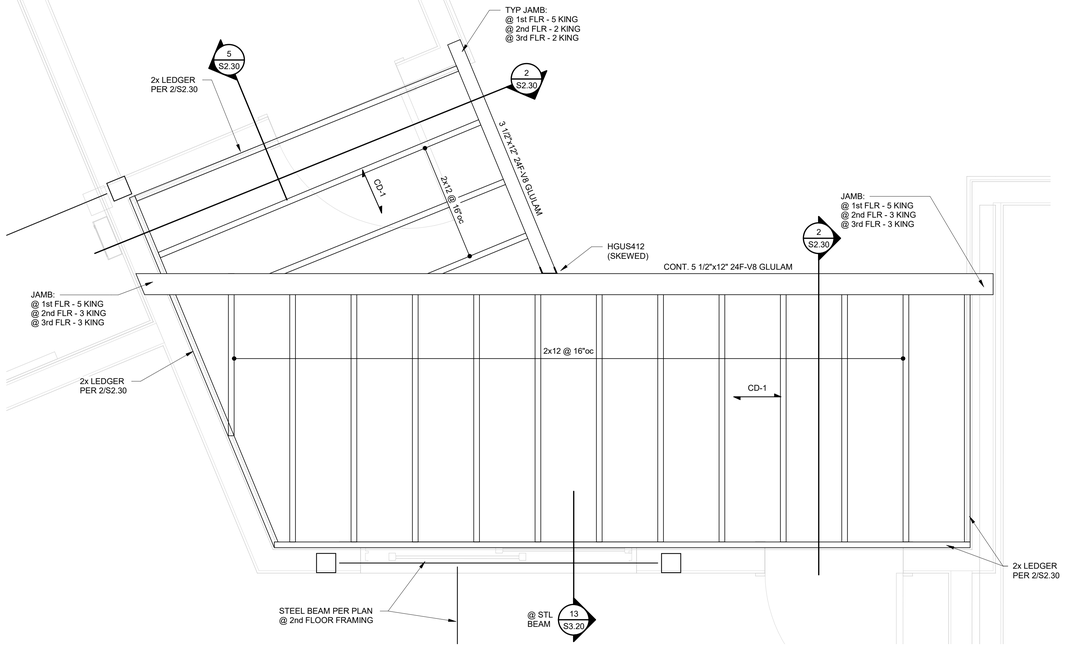
1 BALCONY FRAMING PLAN
3/4" = 1'-0"



1A BALCONY FRAMING PLAN
3/4" = 1'-0"



2 BALCONY FRAMING PLAN
3/4" = 1'-0"



2A BALCONY FRAMING PLAN
3/4" = 1'-0"

BALCONY FRAMING NOTES:
1. ALL EXTERIOR FRAMING MATERIAL SHALL BE MOISTURE-RESISTANT TREATED.
2. REFER TO GENERAL NOTE "11.B" FOR BALCONY FRAMING DIMENSIONAL LUMBER MATERIAL.
3. REFER TO GENERAL NOTE "11.L" FOR BALCONY FRAMING GLULAM MATERIAL SPECIFICATIONS.
4. REFER TO STRUCTURAL BUILDING PLANS FOR BUILDING FRAMING INFORMATION.
5. REFER TO HANGER SCHEDULE ON S0.02 FOR TYPICAL BALCONY MEMBER HANGERS UNLESS NOTED OTHERWISE.

paragon star

PARAGON STAR NORTH VILLAGE

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REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
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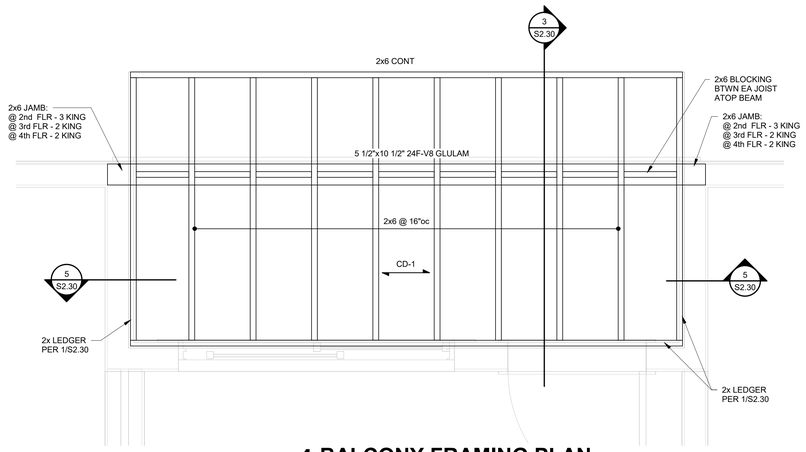
SHEET TITLE

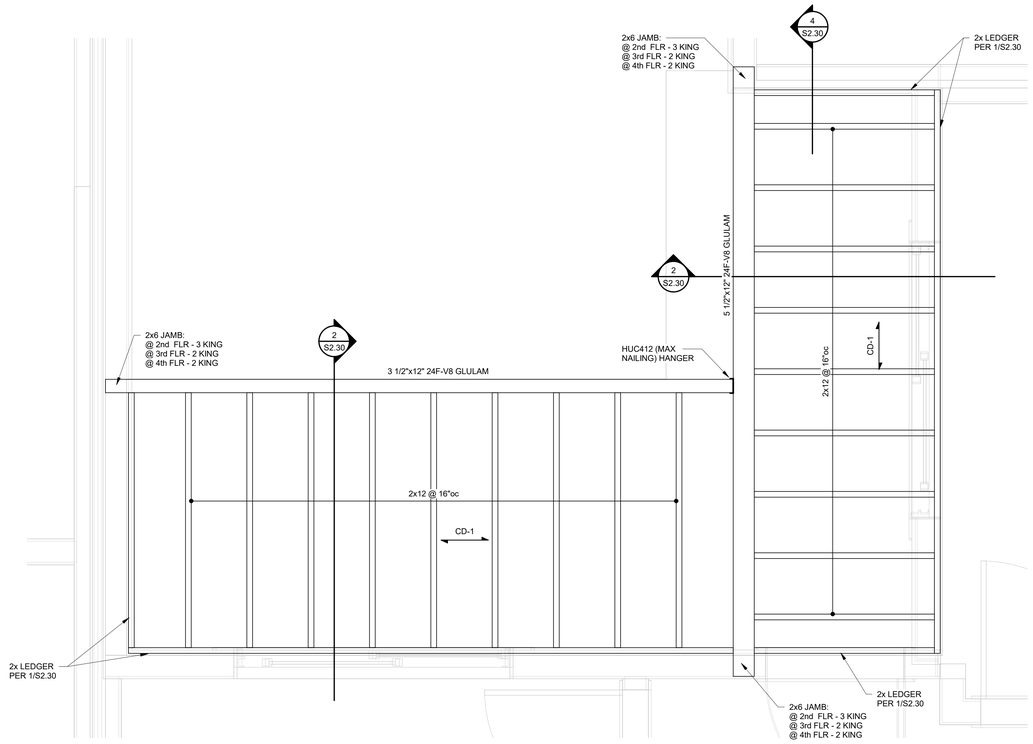
BALCONY FRAMING PLANS

SHEET NUMBER

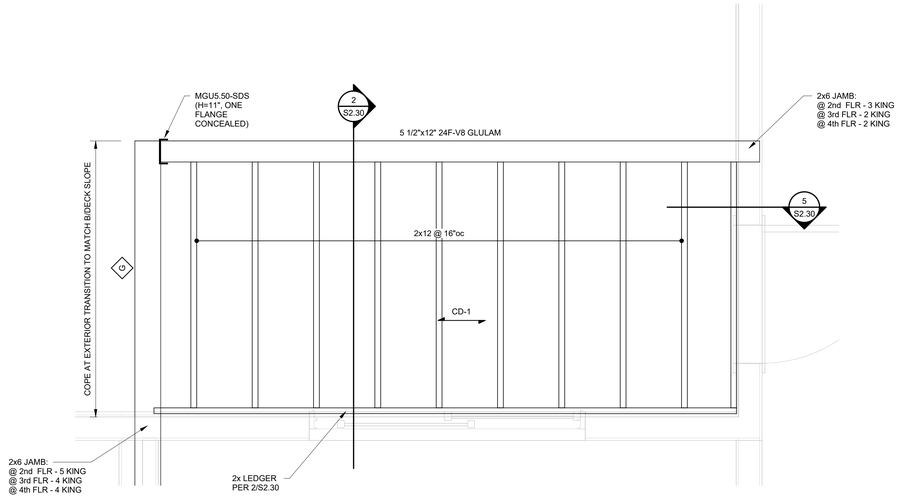
S2.20



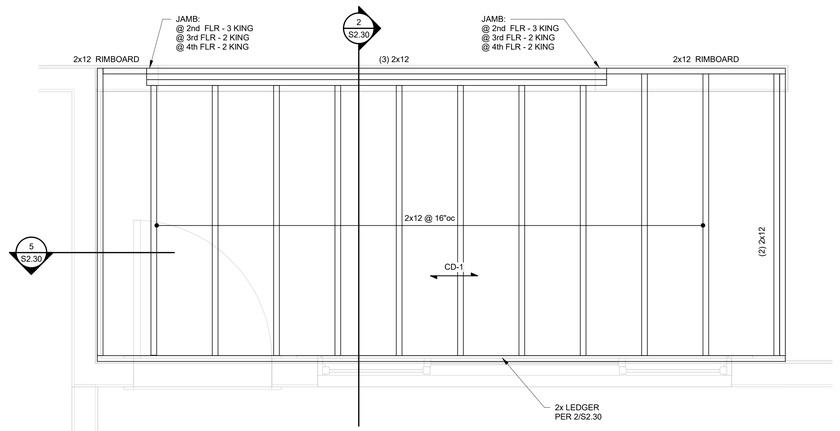
1 BALCONY FRAMING PLAN
3/4" = 1'-0"



2 BALCONY FRAMING PLAN
3/4" = 1'-0"



3 BALCONY FRAMING PLAN
3/4" = 1'-0"



4 BALCONY FRAMING PLAN
3/4" = 1'-0"

BALCONY FRAMING NOTES:
1. ALL EXTERIOR FRAMING MATERIAL SHALL BE MOISTURE-RESISTANT TREATED.
2. REFER TO GENERAL NOTE "11.B" FOR BALCONY FRAMING DIMENSIONAL LUMBER MATERIAL.
3. REFER TO GENERAL NOTE "11.L" FOR BALCONY FRAMING GLULAM MATERIAL SPECIFICATIONS.
4. REFER TO STRUCTURAL BUILDING PLANS FOR BUILDING FRAMING INFORMATION.
5. REFER TO HANGER SCHEDULE ON S0.02 FOR TYPICAL BALCONY MEMBER HANGERS UNLESS NOTED OTHERWISE.

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
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Project No.:	18017.19050.07,19050.08
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3	7.20.22	ADDENDUM 2

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STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1.22.22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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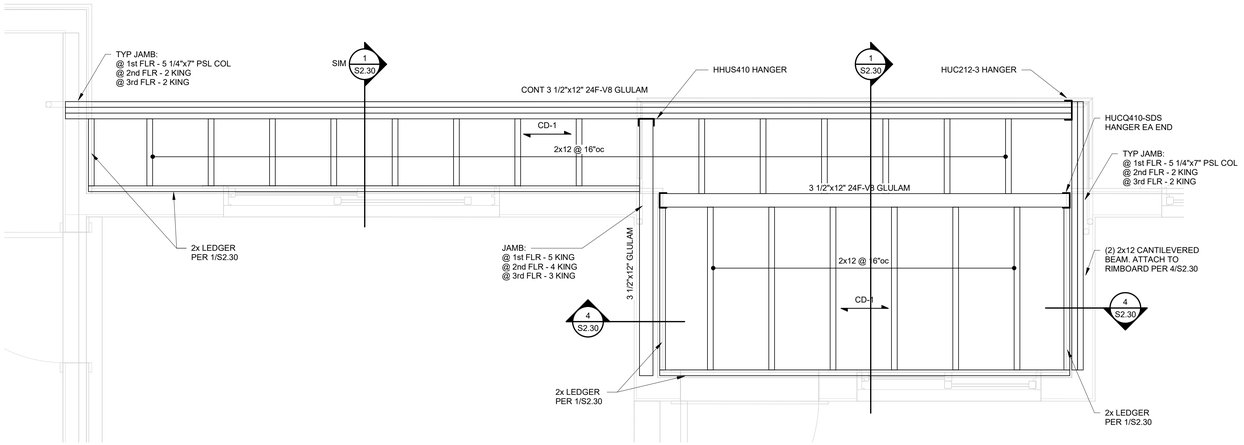
SHEET TITLE

BALCONY FRAMING PLANS

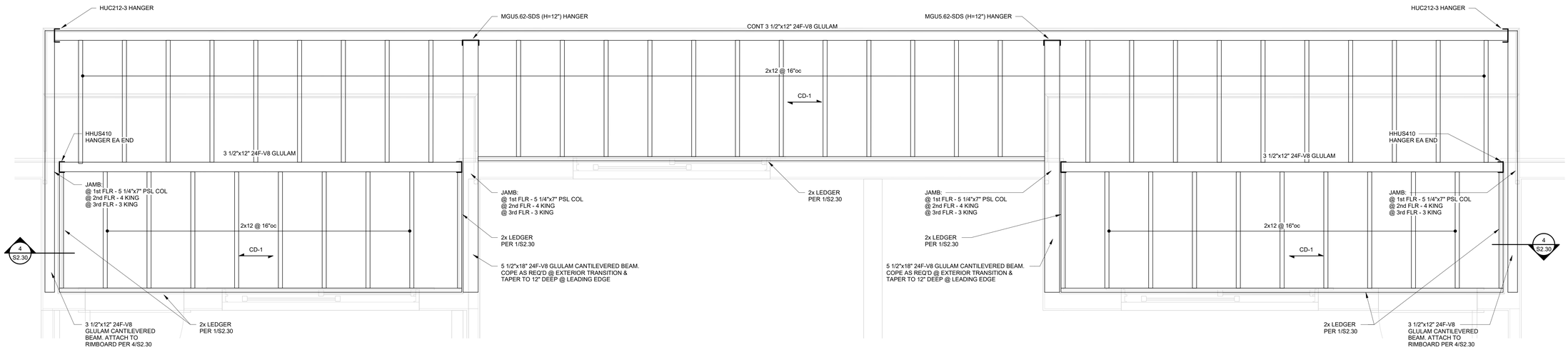
SHEET NUMBER

S2.21



1 BALCONY FRAMING PLAN

3/4" = 1'-0"



2 BALCONY FRAMING PLAN

3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
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No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7.22.22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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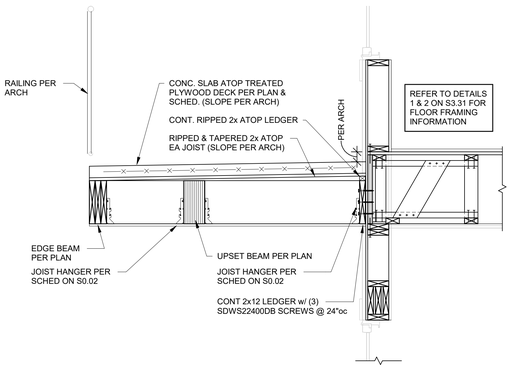
SHEET TITLE

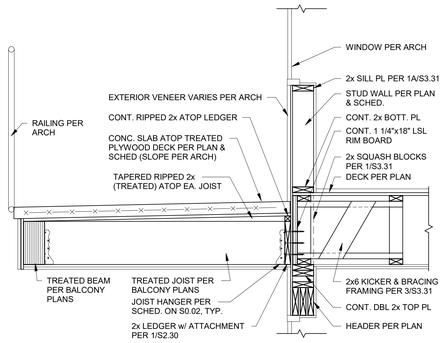
BALCONY FRAMING PLANS

SHEET NUMBER

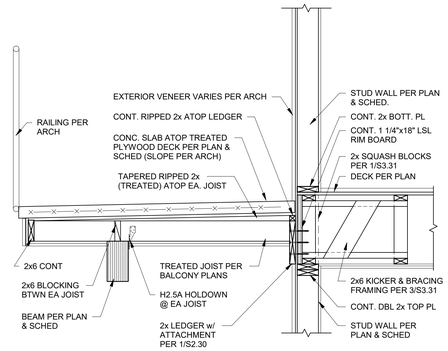
S2.22



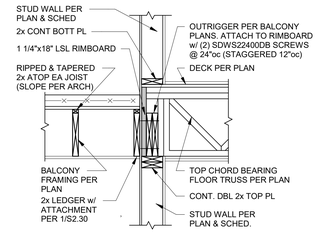
1 SECTION
3/4" = 1'-0"



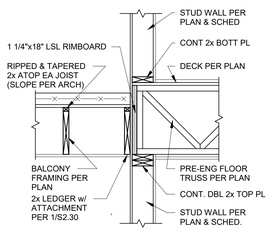
2 SECTION
3/4" = 1'-0"



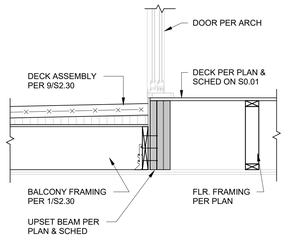
3 SECTION
3/4" = 1'-0"



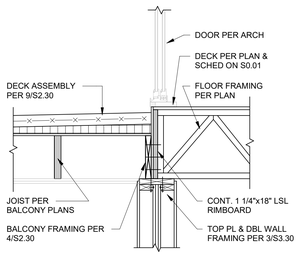
4 SECTION
3/4" = 1'-0"



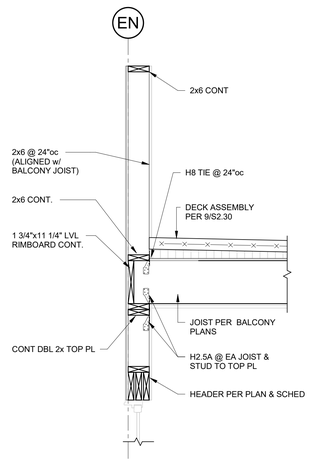
5 SECTION
3/4" = 1'-0"



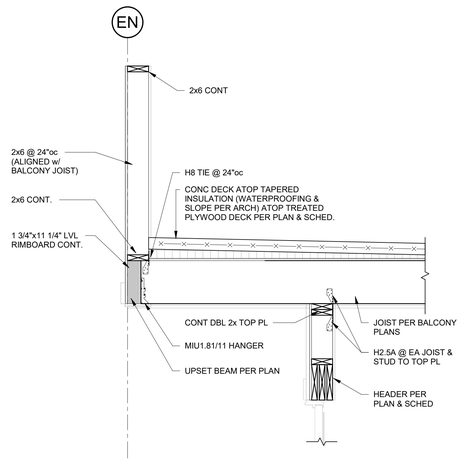
6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



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



9 SECTION
3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

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1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
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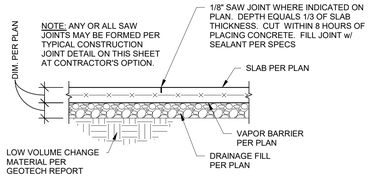
SHEET TITLE

BALCONY FRAMING DETAILS

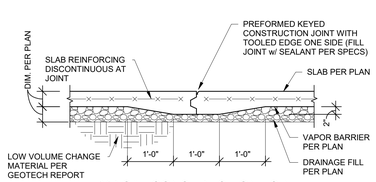
SHEET NUMBER

S2.30



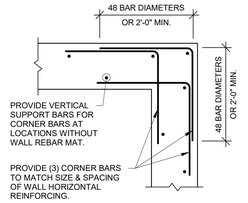
TYPICAL SAW JOINT
NOTED "SJ" ON PLAN

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

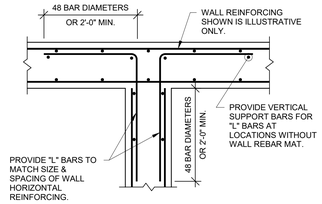


TYPICAL CONSTRUCTION JOINT
NOTED "CJ" ON PLAN

2 SECTION
3/4" = 1'-0"

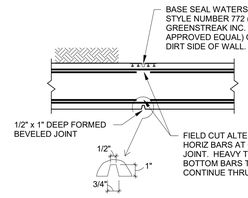


TYPICAL CORNER BARS AT
CONCRETE WALLS & FOUNDATIONS

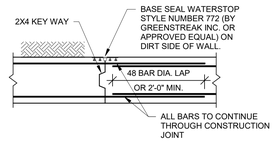


TYPICAL T-INTERSECTION REINFORCING
AT CONCRETE WALLS & FOUNDATIONS

3 TYPICAL INTERSECTING CONCRETE WALL REINFORCING
3/4" = 1'-0"

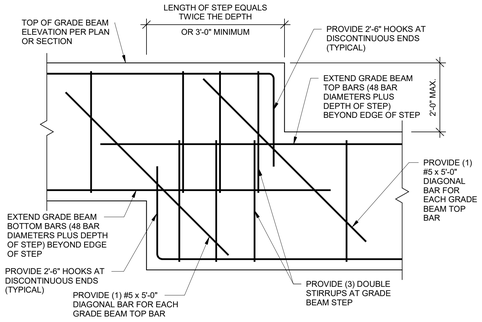


VERTICAL WALL CONTROL JOINT
MAXIMUM SPACING = 25'-0"
(COORDINATE LOCATIONS WITH ARCHITECT/ALIGN WITH MASONRY CONTROL/EXPANSION JOINTS ABOVE)

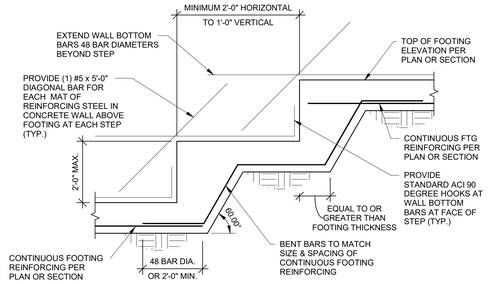


VERTICAL WALL CONSTRUCTION JOINT
MAXIMUM SPACING = 100'-0"

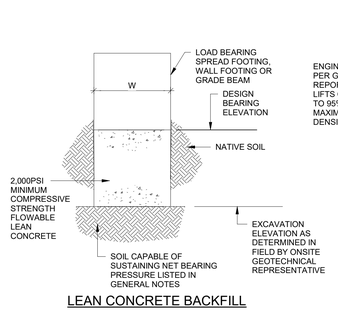
4 VERTICAL WALL CONTROL JOINT
3/4" = 1'-0"



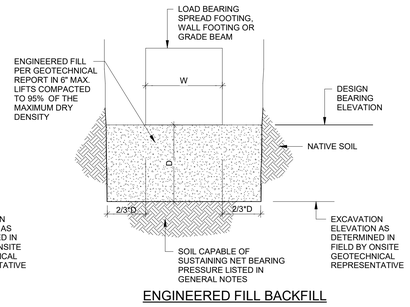
5 TYPICAL GRADE BEAM STEP
3/4" = 1'-0"



6 TYPICAL FOOTING STEP
1/2" = 1'-0"

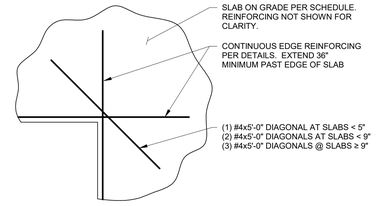


LEAN CONCRETE BACKFILL



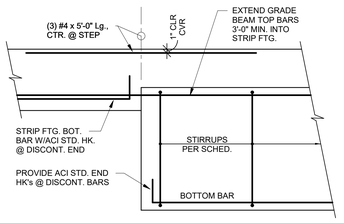
ENGINEERED FILL BACKFILL

7 OVEREXCAVATION DETAIL
3/4" = 1'-0"



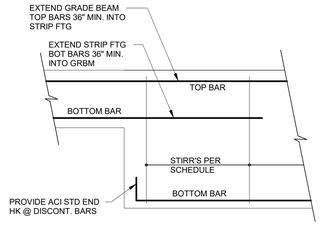
TYPICAL SLAB ON GRADE RE-ENTRANT CORNER BARS

8 DETAIL
1/2" = 1'-0"



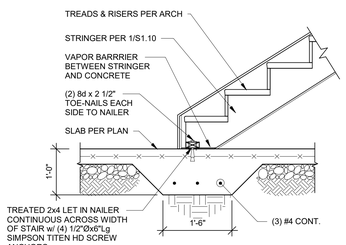
TYPICAL STEP @ GRADE BEAM TO STRIP FOOTING

9A SECTION
3/4" = 1'-0"



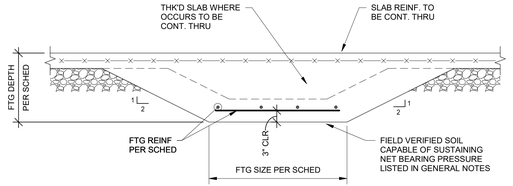
TYPICAL STEP @ GRADE BEAM TO STRIP FOOTING

9B SECTION
3/4" = 1'-0"



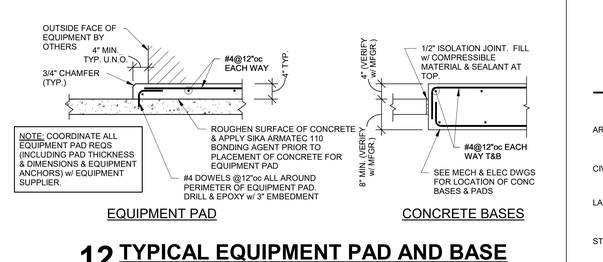
TYPICAL THICKENED SLAB AT BASE OF STAIR

10 SECTION
3/4" = 1'-0"



TYPICAL SPREAD FTG AT
CONTINUOUS THICKENED SLAB

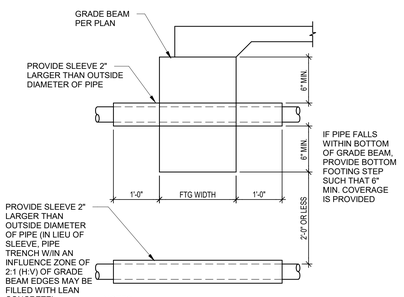
11 SECTION
3/4" = 1'-0"



EQUIPMENT PAD

CONCRETE BASES

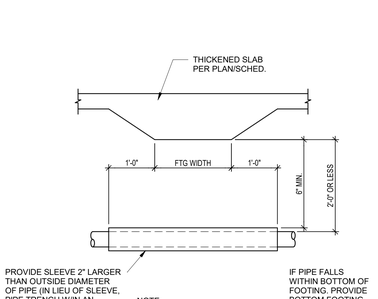
12 TYPICAL EQUIPMENT PAD AND BASE
3/4" = 1'-0"



NOTES:
1. IF PIPE IS MORE THAN 2'-0" BELOW BOTTOM OF GRADE BEAM, SLEEVE IS NOT REQUIRED
2. PIPES SHALL NOT CROSS BELOW OR THROUGH A SPREAD FOOTING.

TYPICAL GRADE BEAM SLEEVE

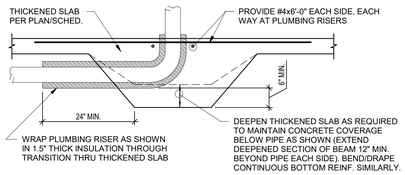
14 SECTION
3/4" = 1'-0"



NOTE:
1. IF PIPE IS MORE THAN 2'-0" BELOW BOTTOM OF FOOTING, SLEEVE IS NOT REQUIRED

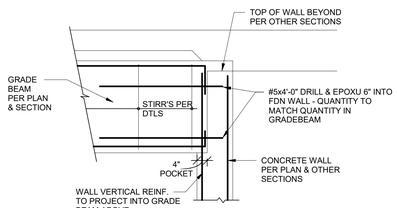
TYPICAL PLUMBING SLEEVE AT THICKENED SLAB

15 SECTION
3/4" = 1'-0"

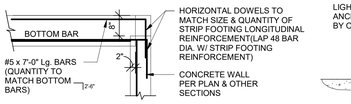


TYPICAL PLUMBING RISER THRU THICKENED SLAB

16 SECTION
3/4" = 1'-0"

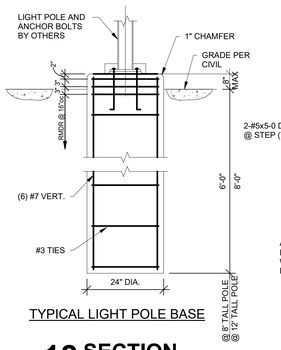


GRADE BEAM TO CONCRETE
FOUNDATION WALL CONNECTION



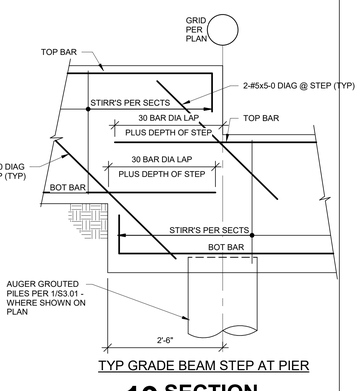
STRIP FOOTING TO CONCRETE
FOUNDATION WALL CONNECTION

17 SECTION
1/2" = 1'-0"



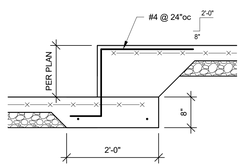
TYPICAL LIGHT POLE BASE

18 SECTION
1/2" = 1'-0"



TYP GRADE BEAM STEP AT PIER

19 SECTION
3/4" = 1'-0"



20 SECTION
3/4" = 1'-0"

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paragon star

PARAGON STAR
NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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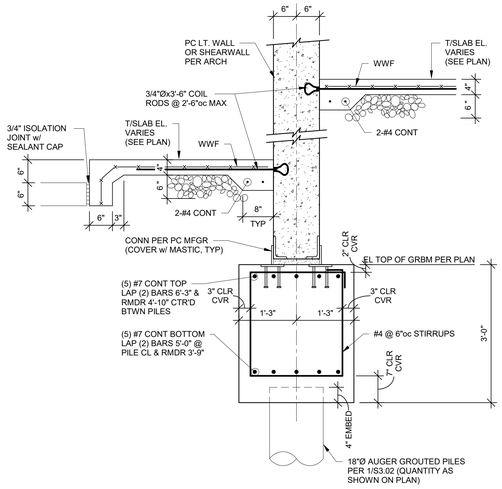
4338 Belleview Ave.
Kansas City, MO 64111
www.bdc-engrs.com

SHEET TITLE

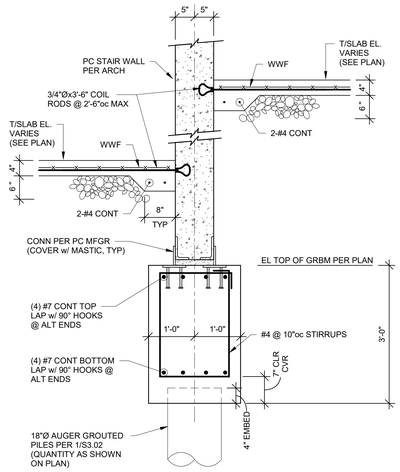
TYPICAL FOUNDATION DETAILS

SHEET NUMBER

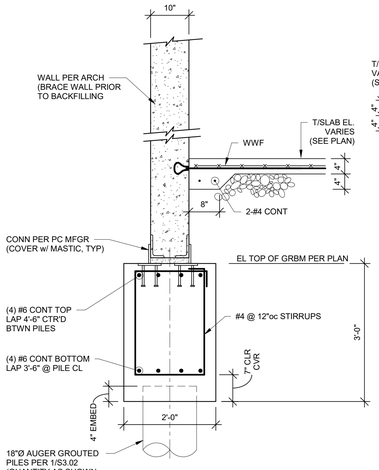
S3.00



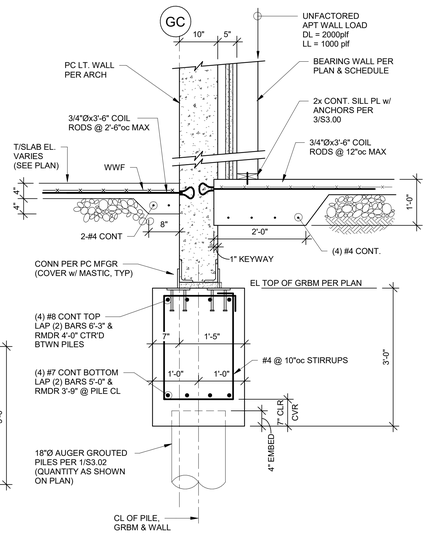
1 SECTION
3/4" = 1'-0"



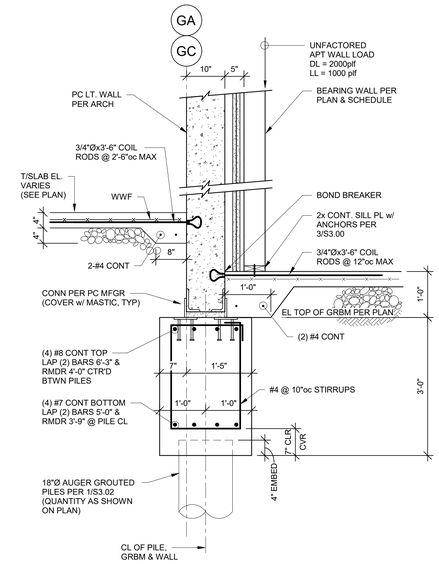
2 SECTION
3/4" = 1'-0"



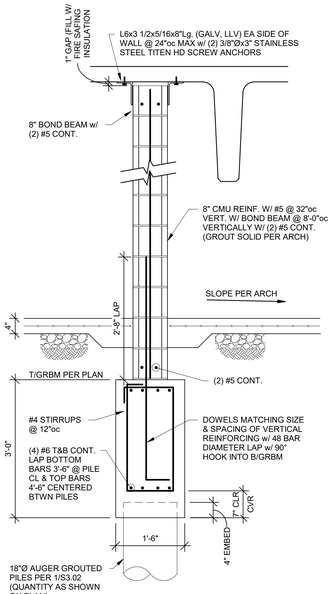
3 SECTION
3/4" = 1'-0"



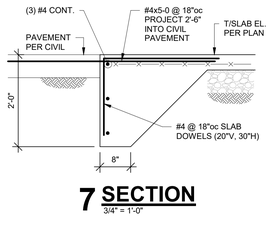
4 SECTION
3/4" = 1'-0"



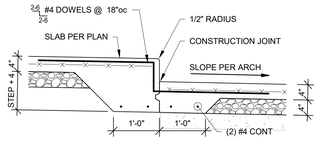
5 SECTION
3/4" = 1'-0"



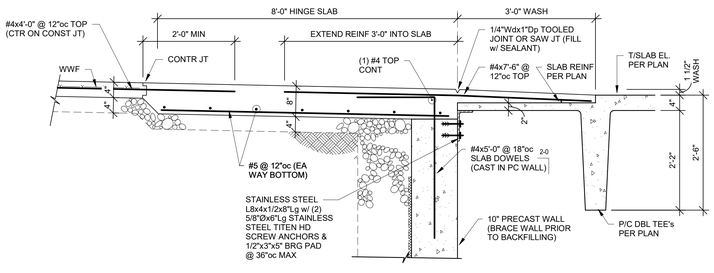
6 SECTION
3/4" = 1'-0"



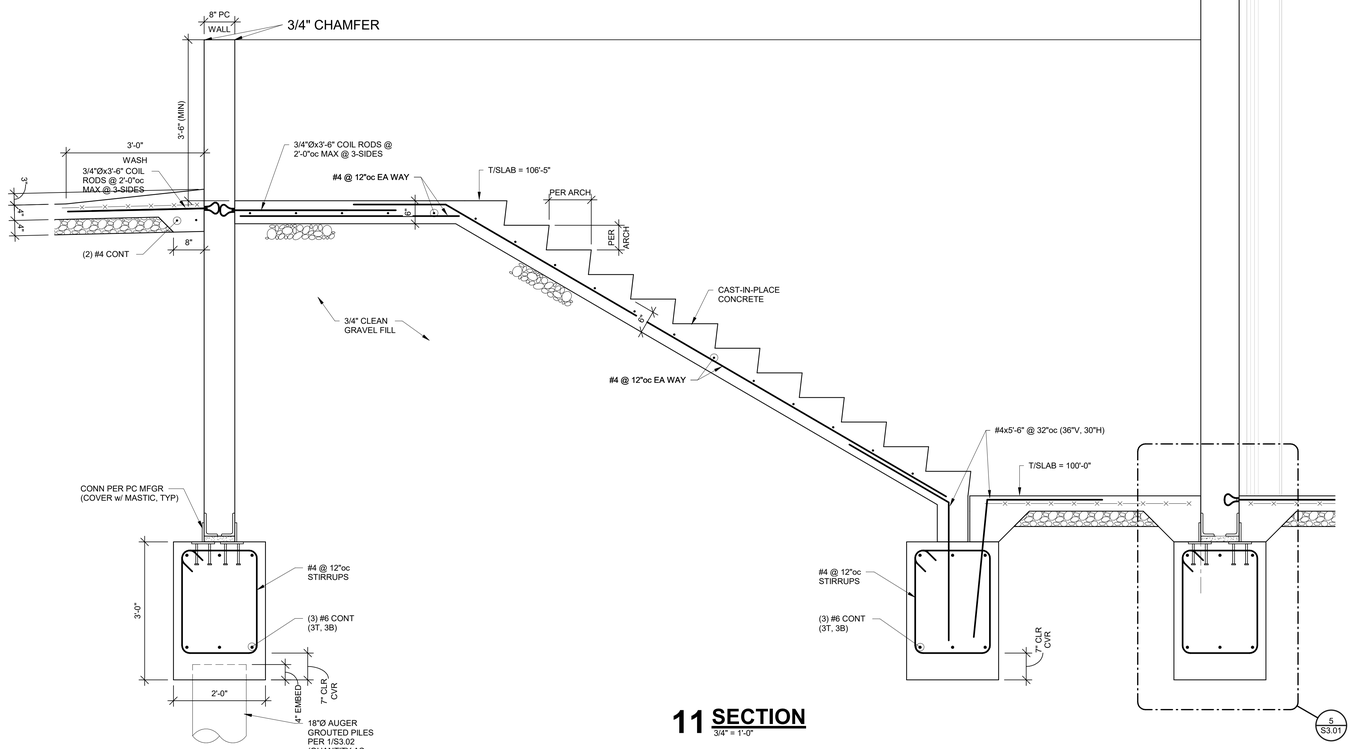
7 SECTION
3/4" = 1'-0"



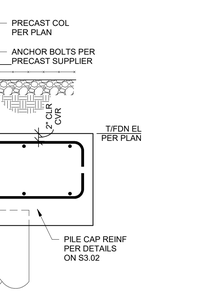
9 SECTION
3/4" = 1'-0"



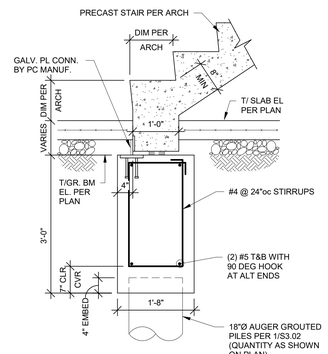
10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"



12 SECTION
3/4" = 1'-0"



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

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
1	6.08.22	Permit Response
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
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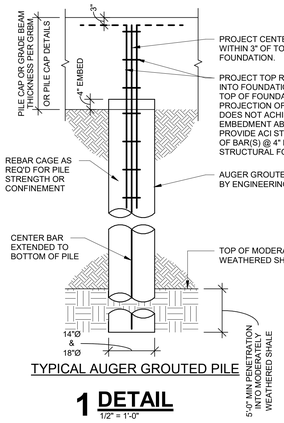
4338 Belleview Ave.
Kansas City, MO 64111
www.bdc-engrs.com

SHEET TITLE

GARAGE FOUNDATION DETAILS

SHEET NUMBER

S3.01



TYPICAL AUGER GROUTED PILE

1 DETAIL
1/2" = 1'-0"

18"Ø PILES
AXIAL CAPACITY = 300 kips
SHEAR CAPACITY = 12 kips

OCCUR AT:
1. EXTENTS OF PODIUM
2. EXTENTS OF GARAGE
3. UNDER FOUNDATION WALL PER DETAILS 1, 2A, 2B, AND 3/S3.04
4. ELEVATOR PITS

14"Ø PILES:
AXIAL CAPACITY = 60 kips
SHEAR CAPACITY = 5 kips

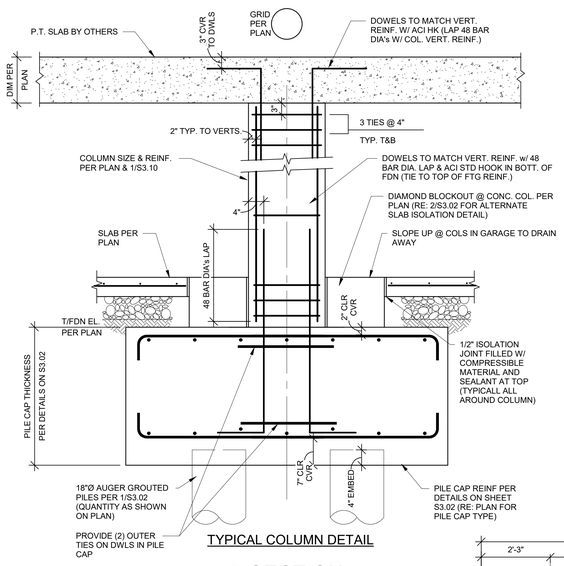
OCCUR AT:
1. EXTENTS OF APARTMENTS ON GRADE PER DETAILS ON S3.03

PILE CAP SCHEDULE

PILE CAPACITY (KIPS): 300 @ 18"Ø PILE / 600 @ 14"Ø	CONCRETE (PSI): 3500	REBAR (KSI): 60

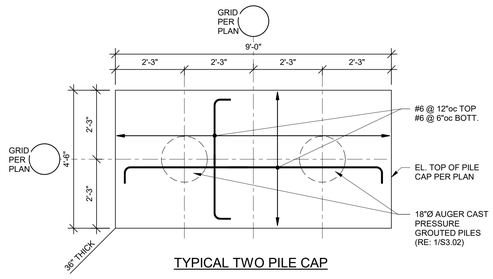
TYPE	FOOTING SIZE (FT.) THICKNESS (IN.)	QTY/SIZE OF BARS EACH WAY
3.5	3'-6" x 3'-6" x 30" w/ 14"Ø PILE	#5 @ 6"oc BOTTOM / #5 @ 12"oc TOP
6x4.5	9'-0" x 4'-6" x 36"	#6 @ 6"oc BOTTOM / #6 @ 12"oc TOP
9	9'-0" x 9'-0" x 36"	#7 @ 6"oc BOTTOM / #7 @ 12"oc TOP
9x13.5	9'-0" x 13'-6" x 60"	#7 @ 6"oc BOTTOM / #7 @ 12"oc TOP
12.5x13.5	12'-6" x 13'-6" x 54"	#7 @ 6"oc BOTTOM / #7 @ 12"oc TOP

NOTE:
1.) EXTERIOR PILE CAPS SHALL BE POURED MONOLITHIC WITH GRADE BEAMS AND EXTERIOR.
2.) PROVIDE #4 @ 12"o.c. EACH WAY IN TOP OF FTG. AT ALL MOMENT FRAMES AND AT BRACE BAY COLUMNS.
3.) CENTER PILE CAPS ON COLUMNS AND/OR WALL CENTER LINES PER PLAN, UNLESS OTHERWISE NOTED.
4.) PROVIDE ACI STANDARD HOOK AT EACH END OF BARS.



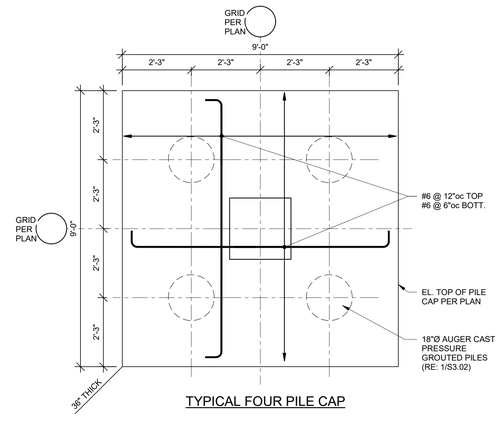
TYPICAL COLUMN DETAIL

2 SECTION
3/4" = 1'-0"



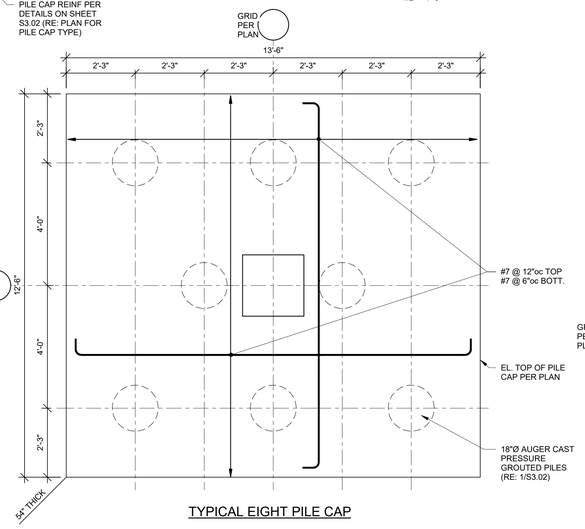
TYPICAL TWO PILE CAP

3 DETAIL
1/2" = 1'-0"



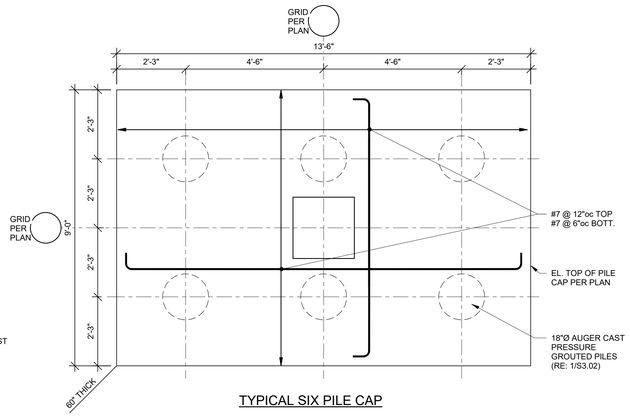
TYPICAL FOUR PILE CAP

4 DETAIL
1/2" = 1'-0"



TYPICAL EIGHT PILE CAP

5 DETAIL
1/2" = 1'-0"



TYPICAL SIX PILE CAP

6 DETAIL
1/2" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
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Kansas City, MO 64111
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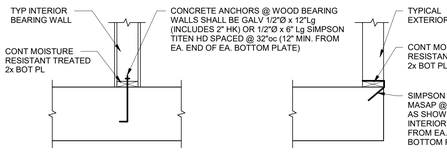
www.bdc-engrs.com

SHEET TITLE

PILE & PODIUM FOUNDATION DETAILS

SHEET NUMBER

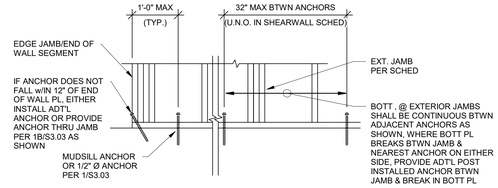
S3.02



NOTES:
1. ALL BOTT PL's TO HAVE TWO ANCHORS MIN.
2. RE: SHEARWALL SCHED ON S0.03 FOR ANCHORS @ SHEARWALLS.
3. RE: 1A/S3.03 FOR DETAIL AT JAMB.
4. RE: 1B/S3.03 FOR DETAIL AT SHORT BOTT , SEGMENTS/JAMBS (WHERE OCCURS).

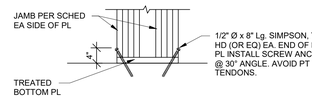
TYPICAL BOTT. PL CONNECTION TO CONCRETE

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



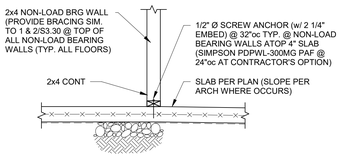
TYPICAL BOTT. PL CONNECTION TO CONCRETE AT EXTERIOR JAMBS & ENDS OF WALL

1A SECTION 3/4" = 1'-0"

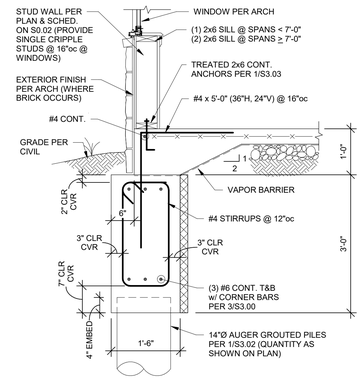


TYPICAL BOTT. PL CONNECTION TO CONCRETE AT SHORT PL SEGMENTS & JAMBS

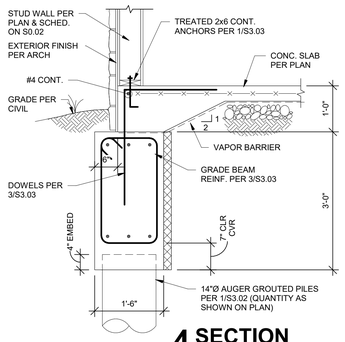
1B SECTION 3/4" = 1'-0"



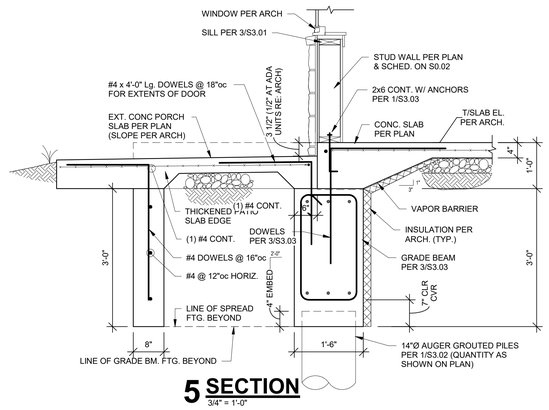
2 SECTION 3/4" = 1'-0"



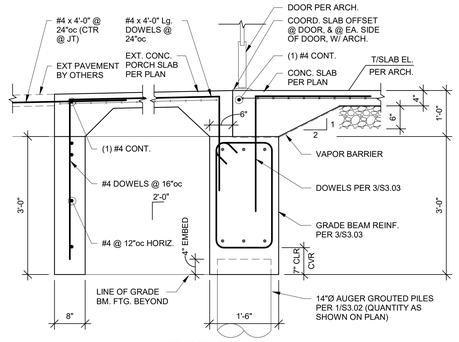
3 SECTION 3/4" = 1'-0"



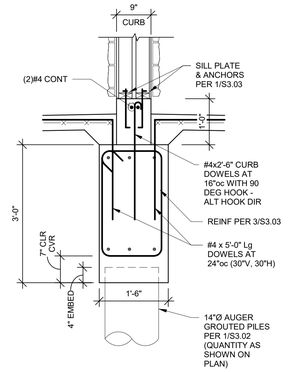
4 SECTION 3/4" = 1'-0"



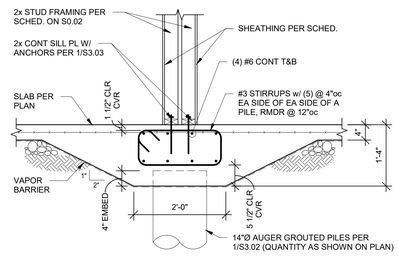
5 SECTION 3/4" = 1'-0"



6 SECTION 3/4" = 1'-0"

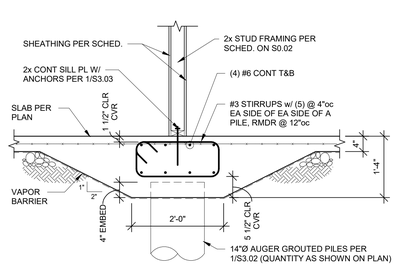


7 SECTION 3/4" = 1'-0"



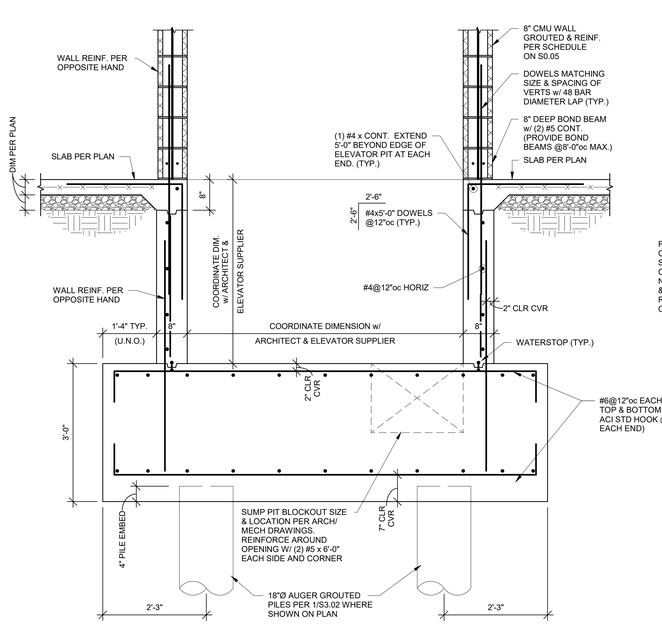
INTERIOR BRG. WALL FTG AT DBL WALLS

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

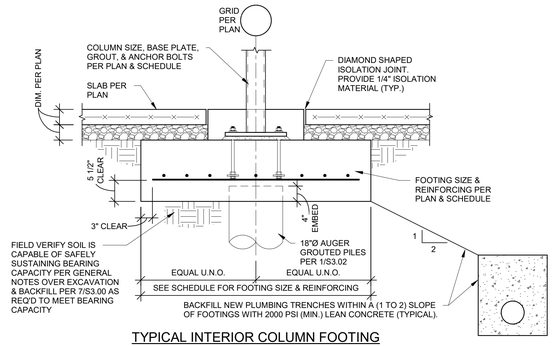


INTERIOR BRG. WALL FTG AT SINGLE WALLS

9 SECTION 3/4" = 1'-0"



10 SECTION 3/4" = 1'-0"



TYPICAL INTERIOR COLUMN FOOTING

11 SECTION 3/4" = 1'-0"

C:\Users\CAB\Documents\FWI2101 - S21 - Paragon Star_cbeverlin\P5Y3B.rvt

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

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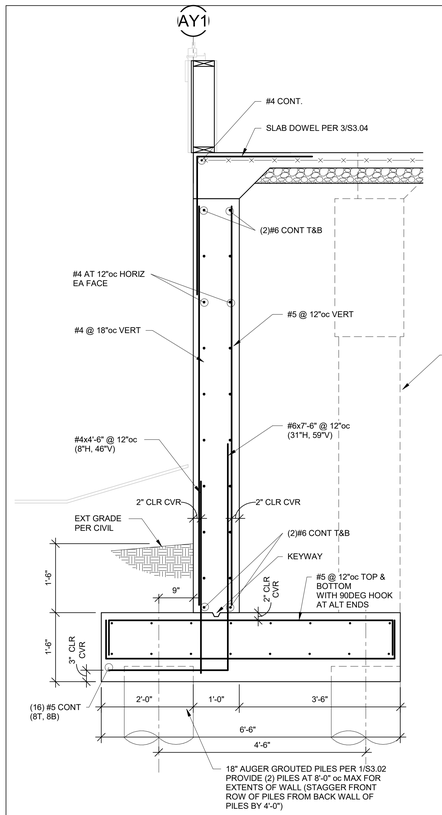
SHEET TITLE

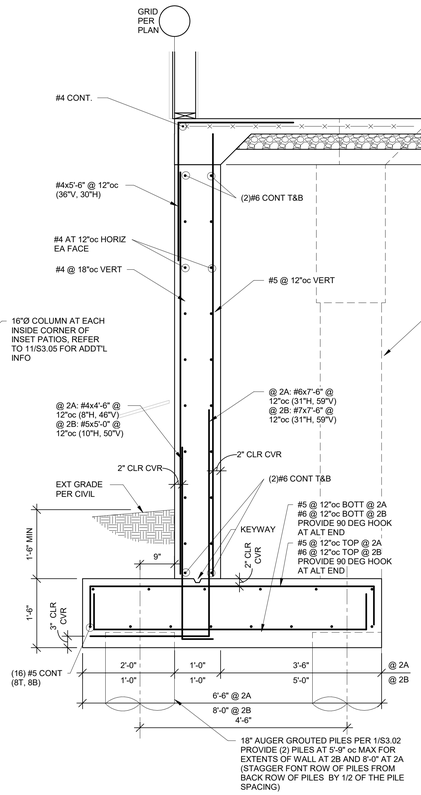
APARTMENT FOUNDATION DETAILS

SHEET NUMBER

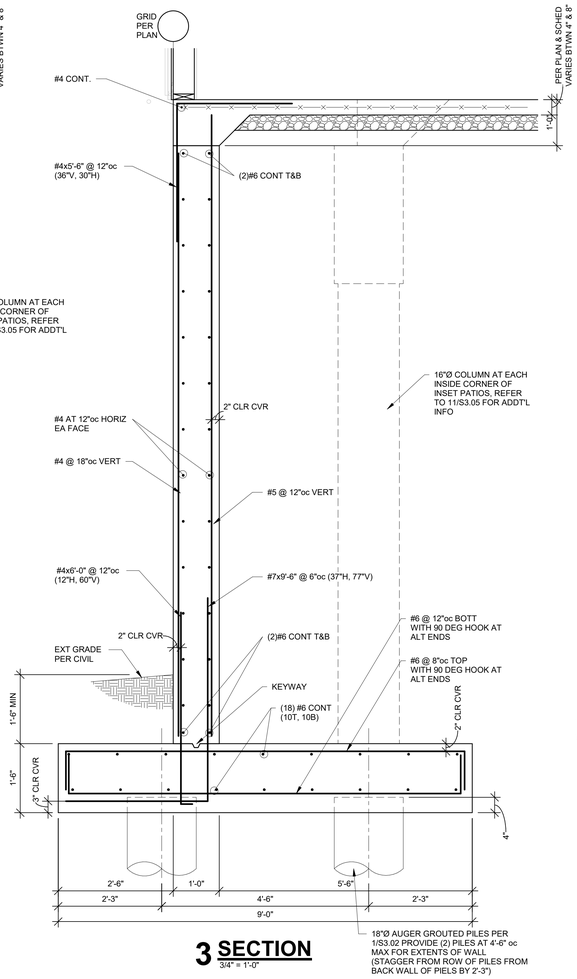
S3.03



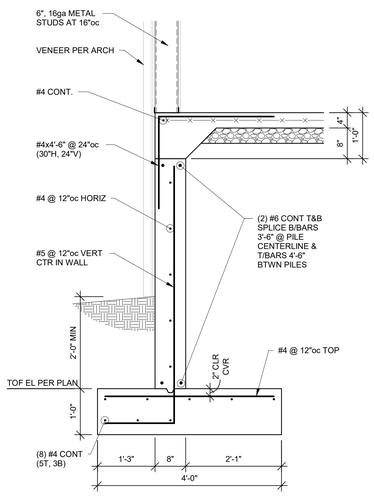
1 SECTION
3/4" = 1'-0"



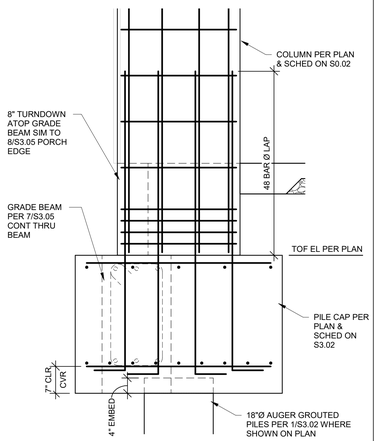
2A, 2B SECTION
3/4" = 1'-0"



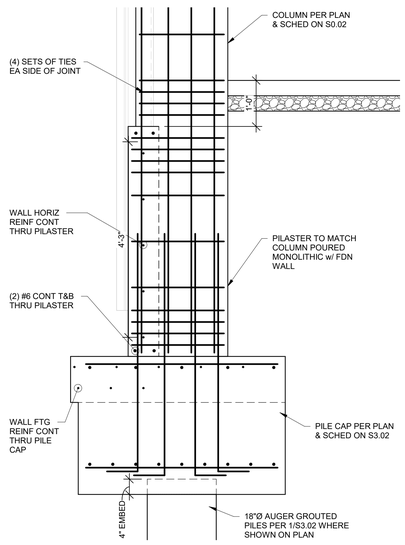
3 SECTION
3/4" = 1'-0"



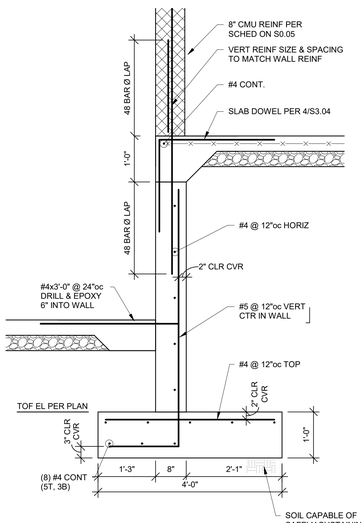
4 SECTION
3/4" = 1'-0"



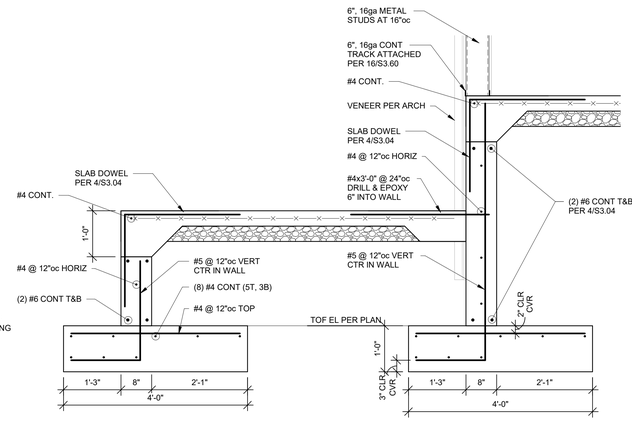
5 SECTION
3/4" = 1'-0"



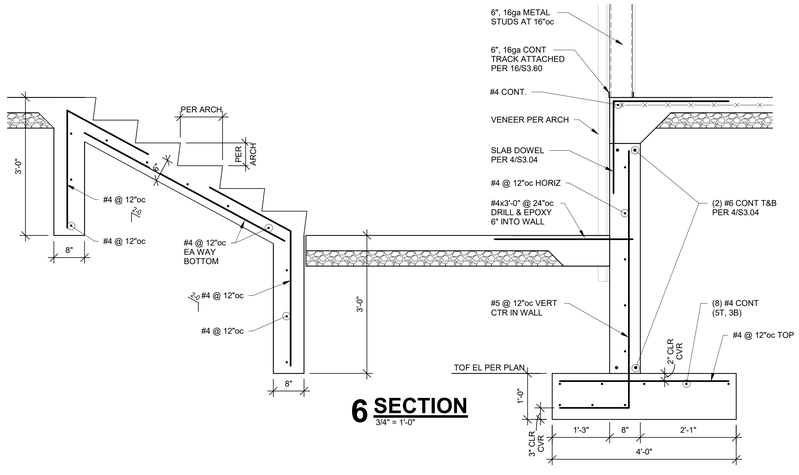
7 SECTION
3/4" = 1'-0"



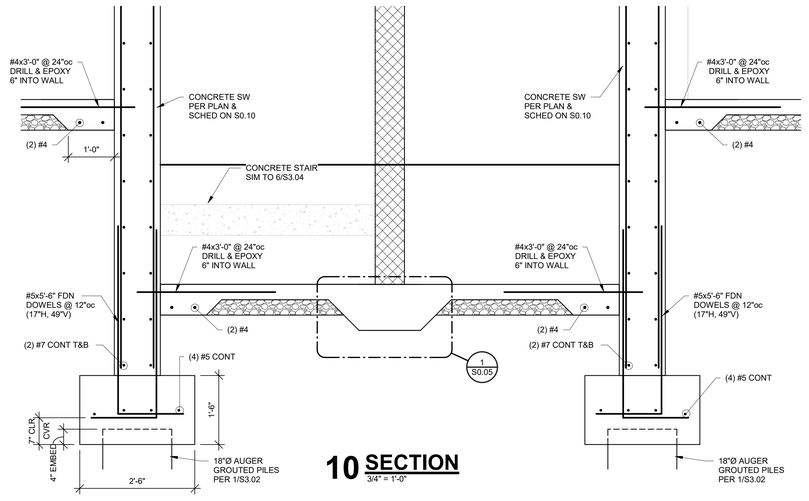
8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
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REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
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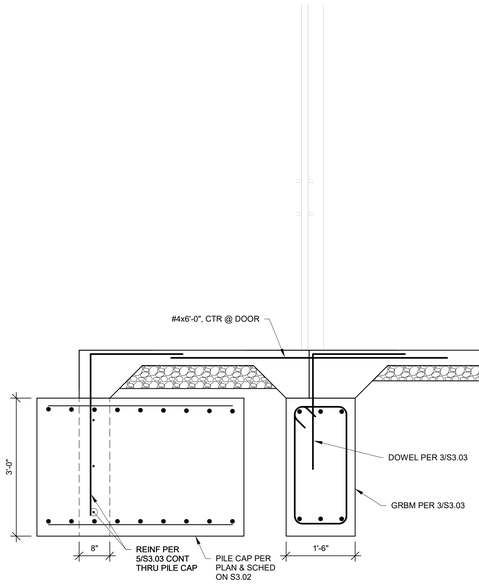
SHEET TITLE

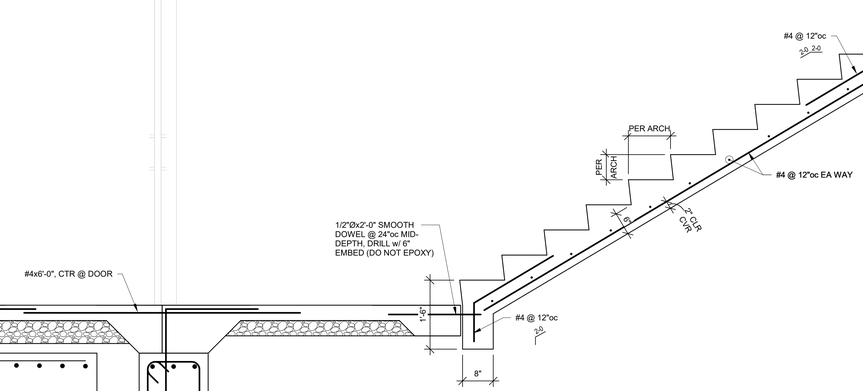
FOUNDATION DETAILS

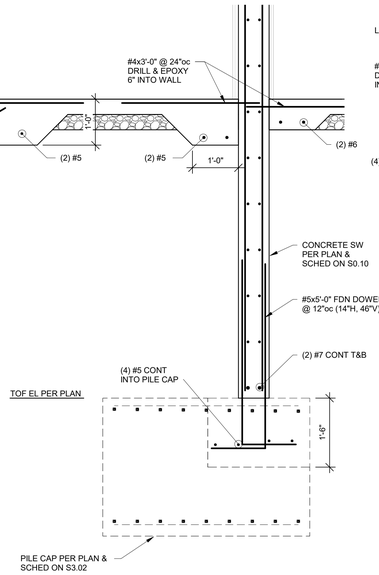
SHEET NUMBER

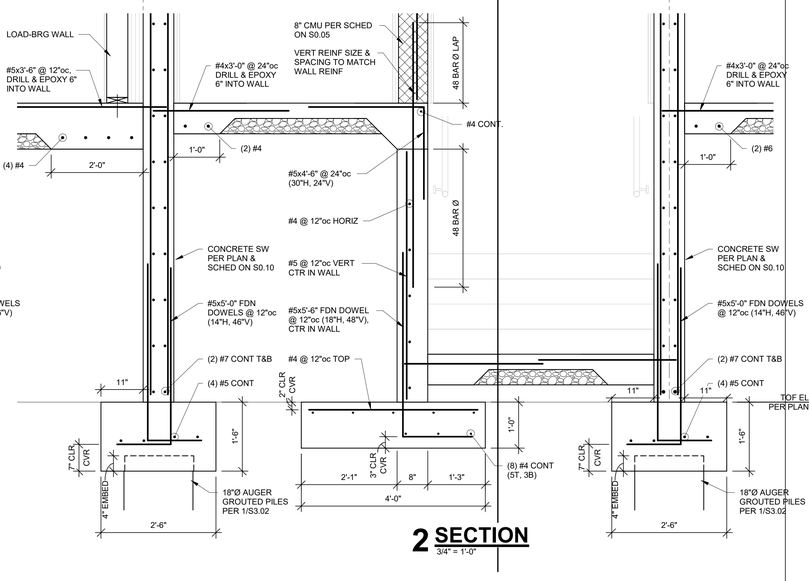
S3.04



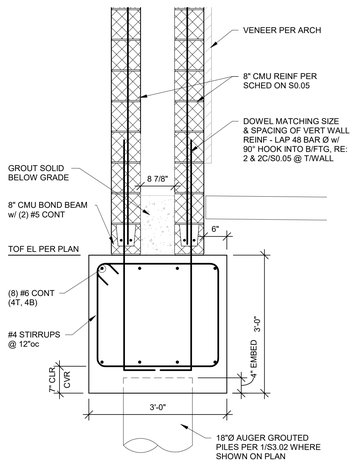
1 SECTION
3/4" = 1'-0"



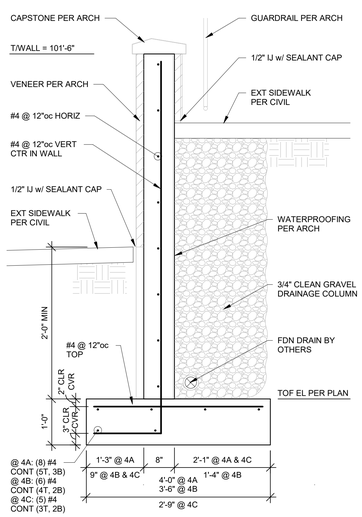




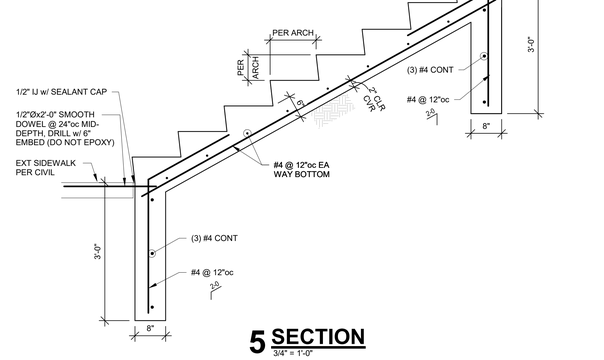
2 SECTION
3/4" = 1'-0"



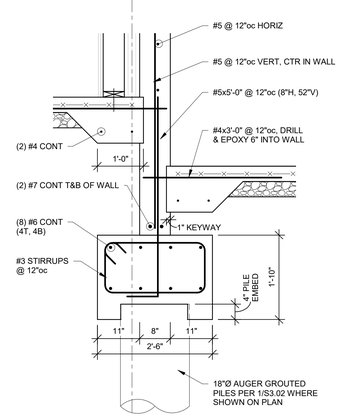
3 SECTION
3/4" = 1'-0"



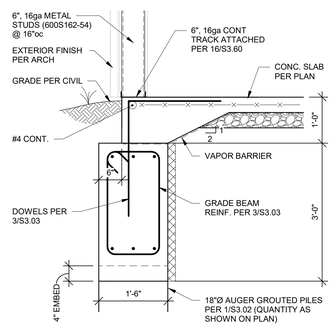
4A, 4B & 4C SECTION
3/4" = 1'-0"



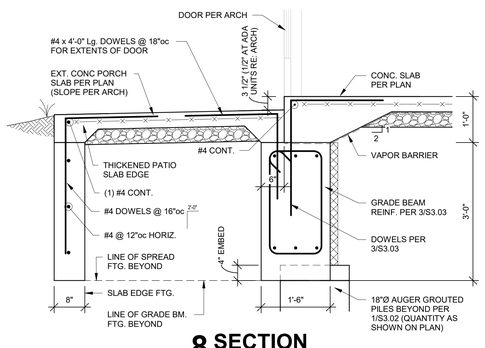
5 SECTION
3/4" = 1'-0"



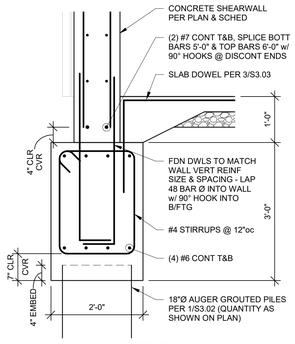
6 SECTION
3/4" = 1'-0"



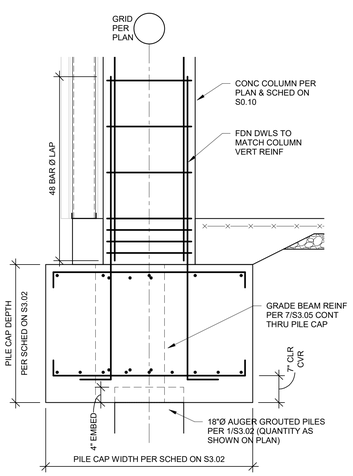
7 SECTION
3/4" = 1'-0"



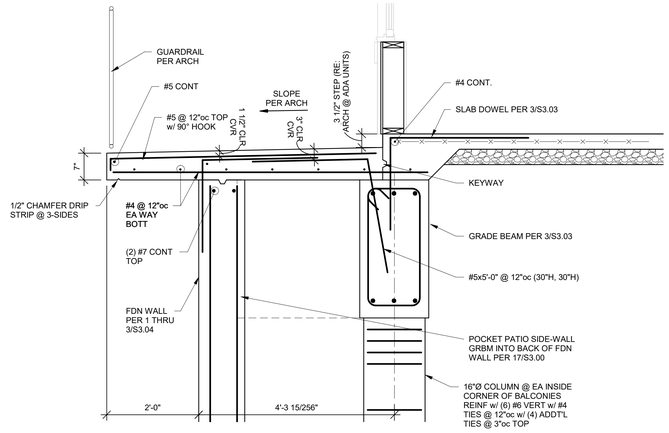
8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

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2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
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Kansas City, MO 64111
816.531.4144
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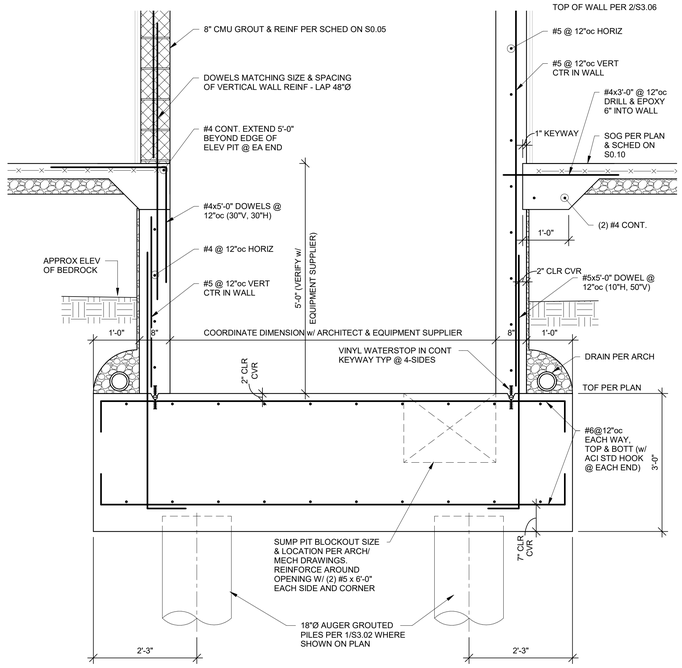
SHEET TITLE

FOUNDATION DETAILS

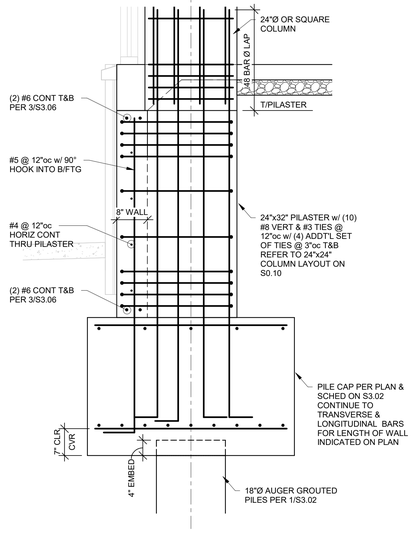
SHEET NUMBER

S3.05

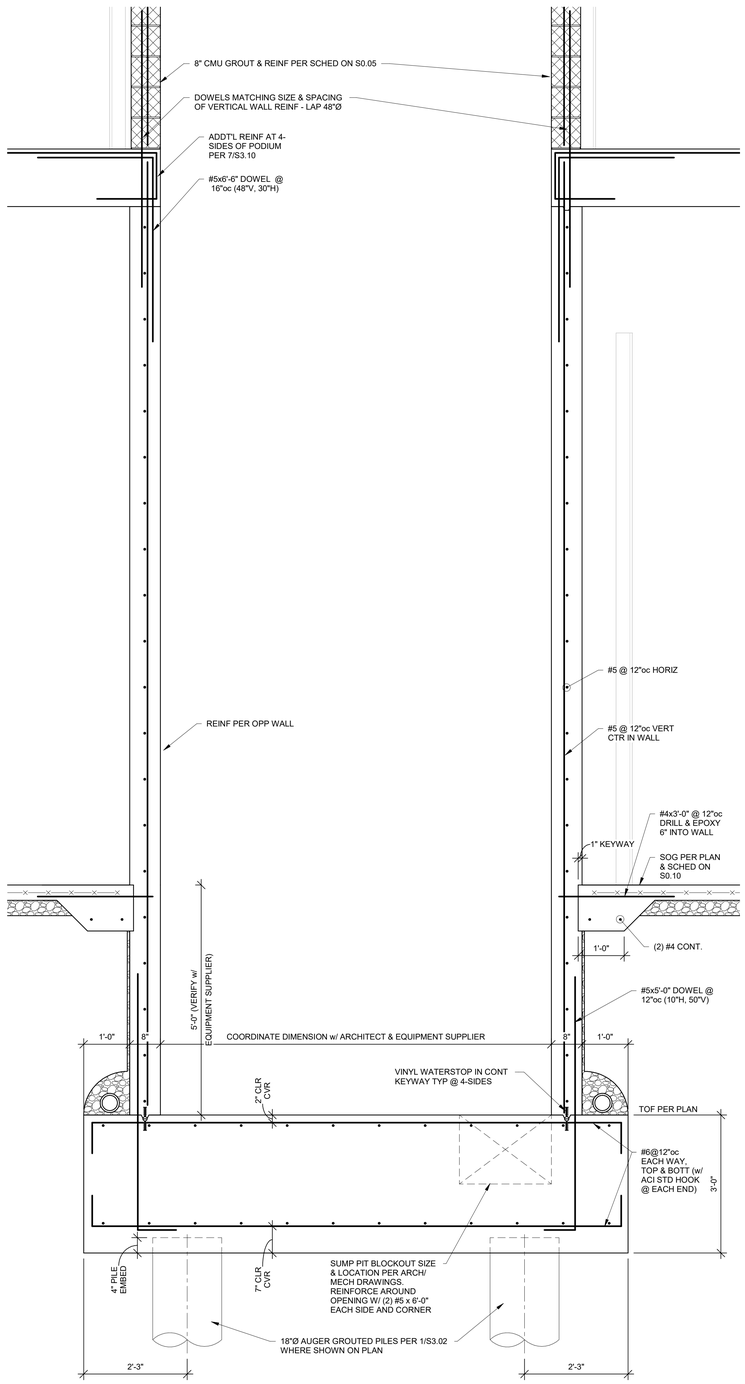


1 SECTION
3/4" = 1'-0"

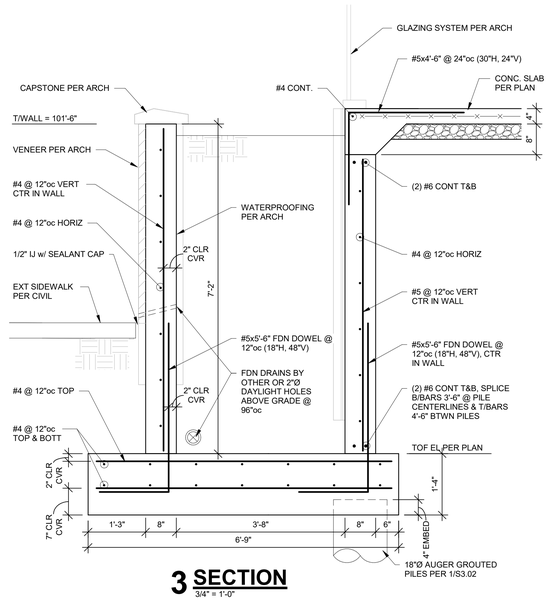
F.2



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



2 SECTION
3/4" = 1'-0"



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

paragon star

PARAGON STAR NORTH VILLAGE

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Project No.:	18017.19050.07,19050.08
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1.22.23
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PROJECT TEAM

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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
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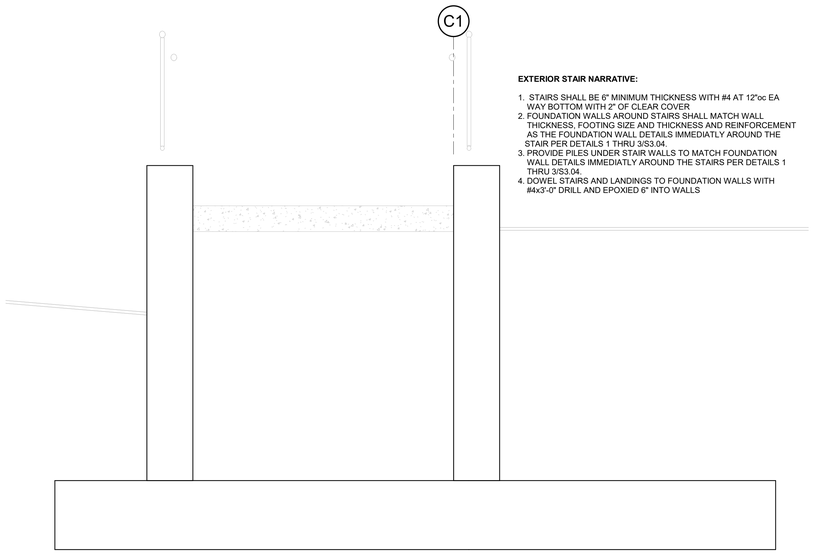
SHEET TITLE

FOUNDATION DETAILS

SHEET NUMBER

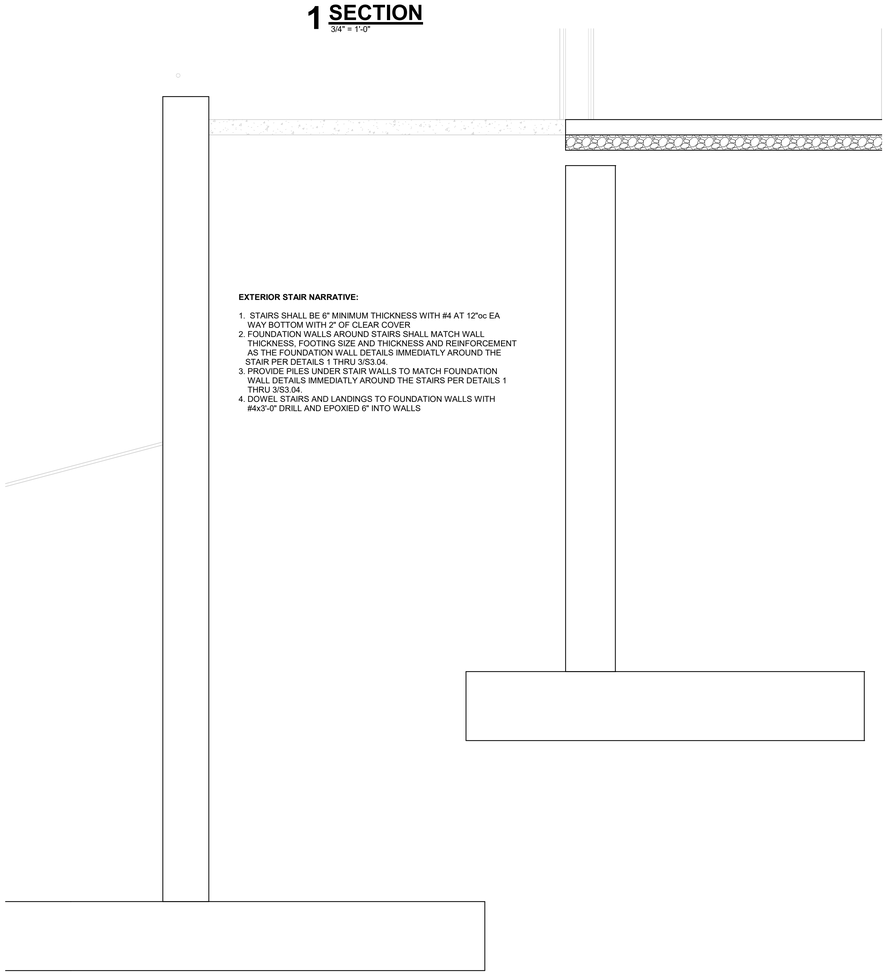
S3.06



EXTERIOR STAIR NARRATIVE:

1. STAIRS SHALL BE 6" MINIMUM THICKNESS WITH #4 AT 12"oc EA WAY BOTTOM WITH 2" OF CLEAR COVER
2. FOUNDATION WALLS AROUND STAIRS SHALL MATCH WALL THICKNESS, FOOTING SIZE AND THICKNESS AND REINFORCEMENT AS THE FOUNDATION WALL DETAILS IMMEDIATLY AROUND THE STAIR PER DETAILS 1 THRU 3/S3.04.
3. PROVIDE PILES UNDER STAIR WALLS TO MATCH FOUNDATION WALL DETAILS IMMEDIATLY AROUND THE STAIRS PER DETAILS 1 THRU 3/S3.04.
4. DOWEL STAIRS AND LANDINGS TO FOUNDATION WALLS WITH #4x3'-0" DRILL AND EPOXIED 6" INTO WALLS

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



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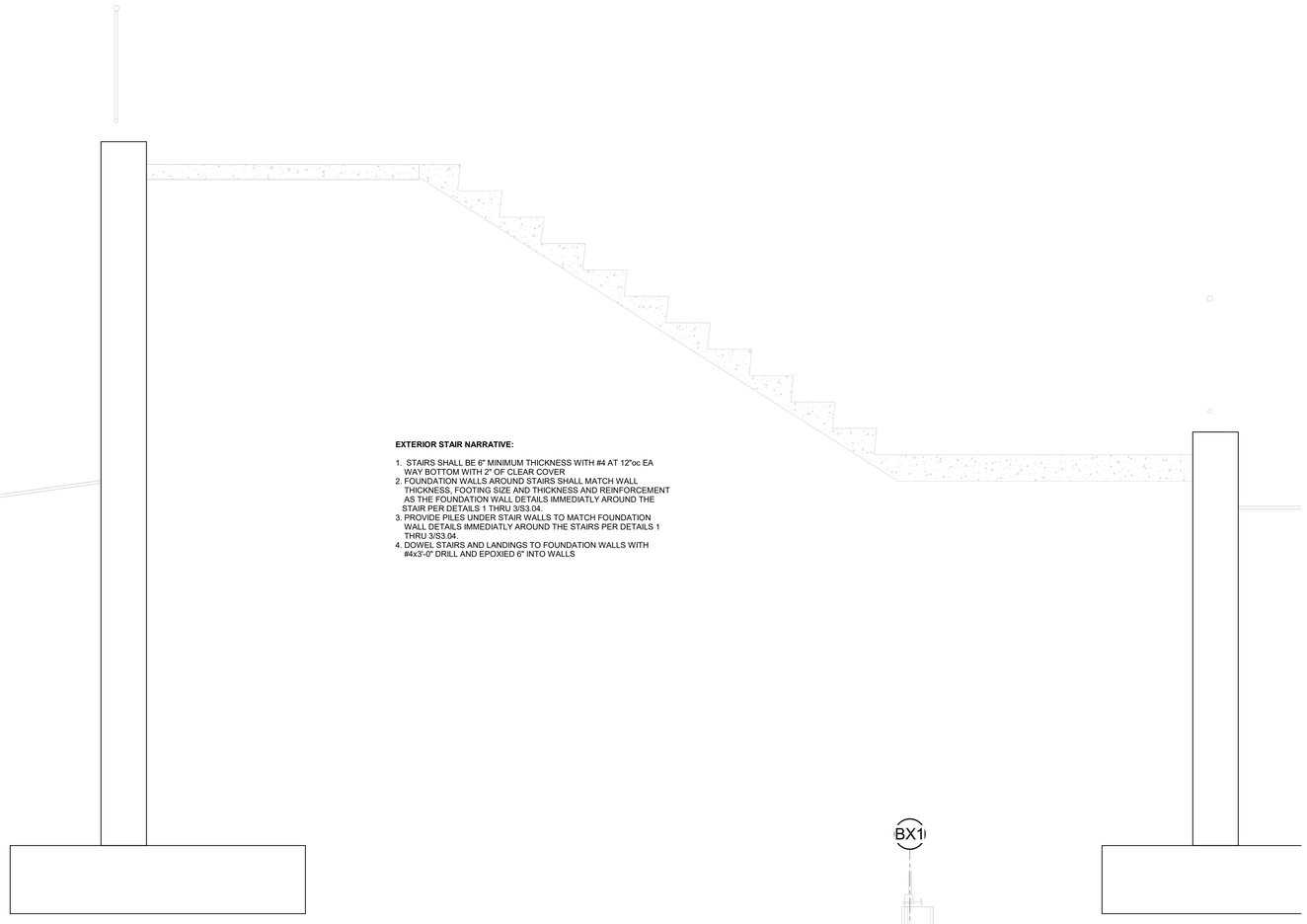
4. DOWEL STAIRS AND LANDINGS TO FOUNDATION WALLS WITH #4x3'-0" DRILL AND EPOXIED 6" INTO WALLS

2 SECTION
3/4" = 1'-0"



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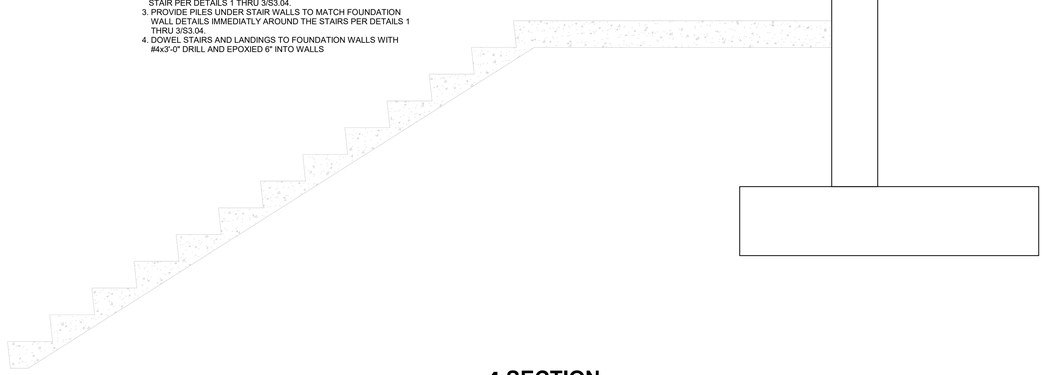
3 SECTION
3/4" = 1'-0"



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1. STAIRS SHALL BE 6" MINIMUM THICKNESS WITH #4 AT 12"oc EA WAY BOTTOM WITH 2" OF CLEAR COVER
2. FOUNDATION WALLS AROUND STAIRS SHALL MATCH WALL THICKNESS, FOOTING SIZE AND THICKNESS AND REINFORCEMENT AS THE FOUNDATION WALL DETAILS IMMEDIATLY AROUND THE STAIR PER DETAILS 1 THRU 3/S3.04.
3. PROVIDE PILES UNDER STAIR WALLS TO MATCH FOUNDATION WALL DETAILS IMMEDIATLY AROUND THE STAIRS PER DETAILS 1 THRU 3/S3.04.
4. DOWEL STAIRS AND LANDINGS TO FOUNDATION WALLS WITH #4x3'-0" DRILL AND EPOXIED 6" INTO WALLS

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

C:\Users\CAB\Documents\FWI2101 - S21 - Paragon Star_cbevelin\PSV3B.rvt

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

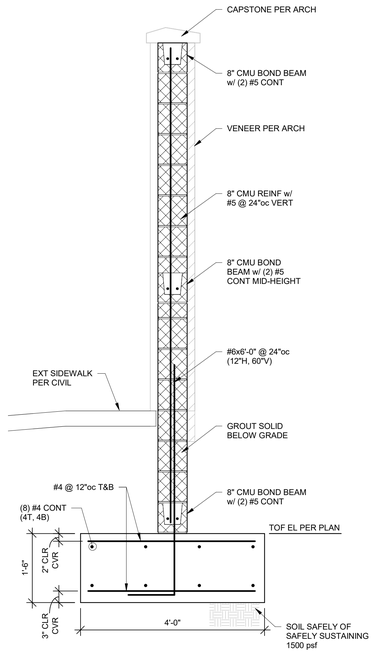
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Belleview Ave.
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

SHEET TITLE

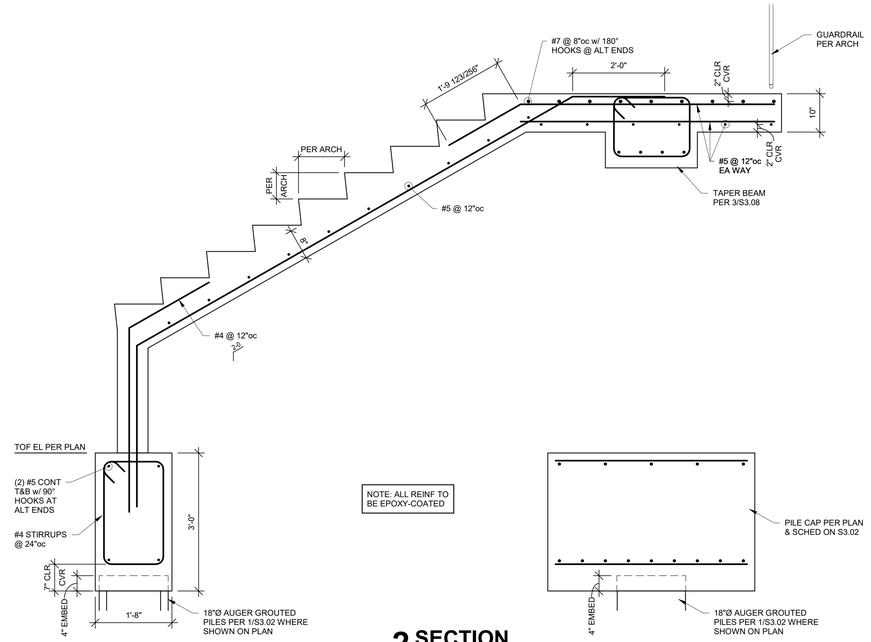
FOUNDATION DETAILS

SHEET NUMBER

S3.07

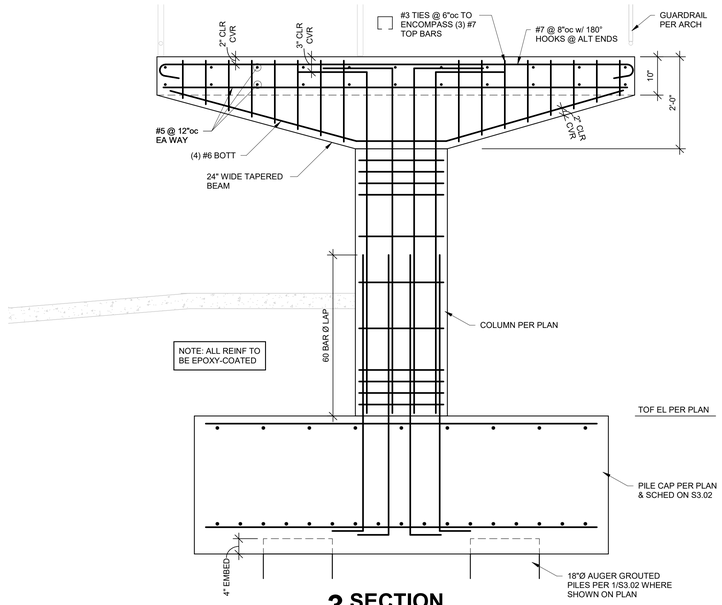


1 SECTION
3/4" = 1'-0"

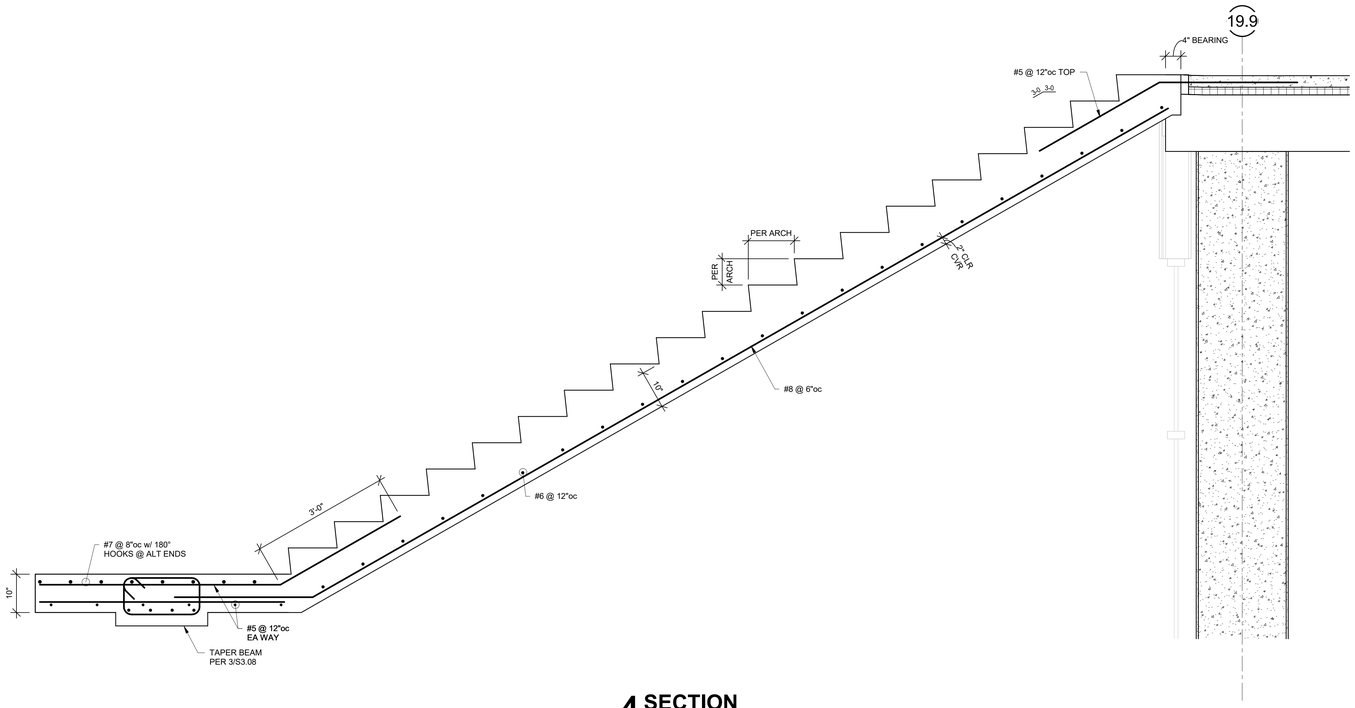


2 SECTION
3/4" = 1'-0"

NOTE: ALL REINF TO BE EPOXY-COATED



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



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

C:\Users\CAB\Documents\FW\2101 - S21 - Paragon Star_cbeverlinFWS3B.rvt

paragon star

PARAGON STAR NORTH VILLAGE

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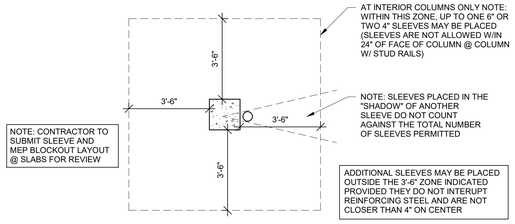
SHEET TITLE

FOUNDATION DETAILS

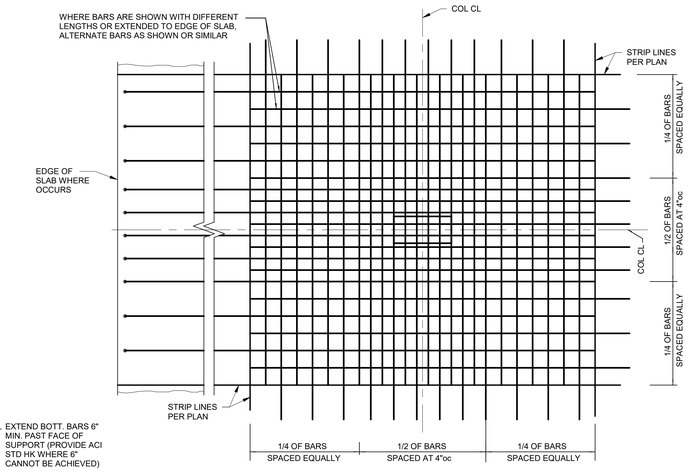
SHEET NUMBER

S3.08

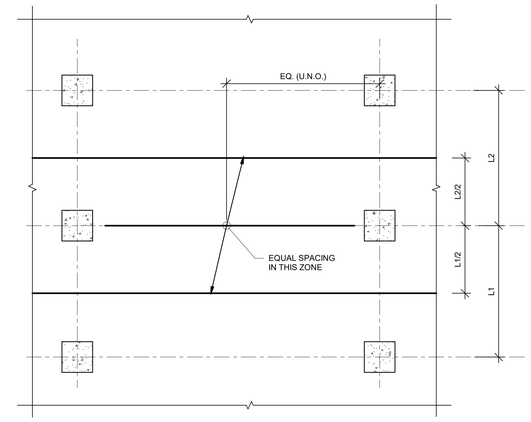


TYPICAL SLEEVE IN PODIUM SLAB RESTRICTIONS

1 DETAIL
3/8" = 1'-0"

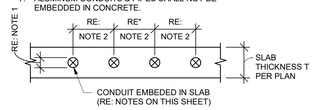


2 DETAIL
3/8" = 1'-0"



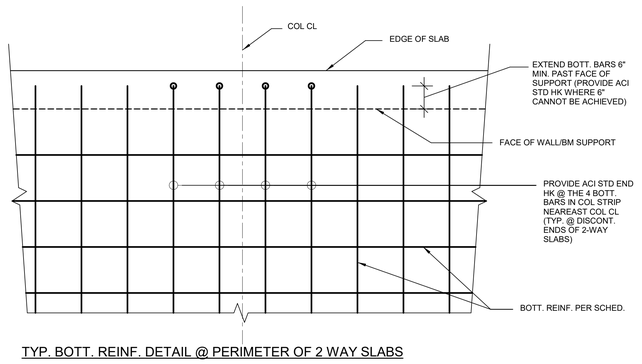
TYPICAL MIDSPAN BOTTOM BAR PLACEMENT (WHERE SHOWN ON PLAN, U.N.O.)

NOTES:
1. MAX. CONDUIT DIAMETER SHALL NOT EXCEED 1/3 OF THE OVERALL THICKNESS OF THE SLAB
2. CONDUITS SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER
3. CONDUITS ARE NOT PERMITTED WITHIN 24" OF THE FACE OF A COLUMN
4. CONDUITS SHALL BE PLACED AS CLOSE TO MID-DEPTH OF SLAB AS POSSIBLE
5. THECROSSING OF CONDUITS SHOULD BE AVOIDED WHERE POSSIBLE. RE-ROUTE CONDUITS WHERE POSSIBLE TO AVOID CROSSING W/IN THE SLAB)
6. CONCRETE COVERAGE FOR CONDUITS SHALL BE THE SAME AS THE REQUIREMENTS FOR REINFORCING (THIS INCLUDES WHERE CONDUITS CROSS; RE: NOTE 5)
7. ALUMINUM CONDUITS & PIPES SHALL NOT BE EMBEDDED IN CONCRETE.



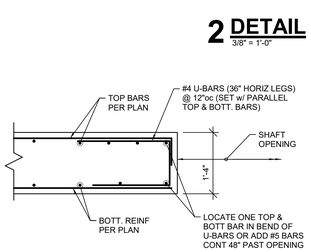
TYPICAL CONDUIT EMBEDMENT IN SLAB

4 DETAIL
3/4" = 1'-0"

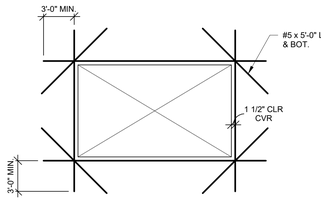


TYP. BOTT. REINF. DETAIL @ PERIMETER OF 2 WAY SLABS

6 SECTION
3/4" = 1'-0"



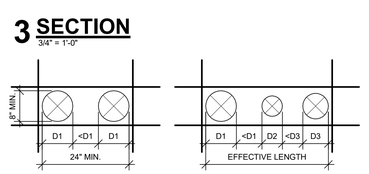
7 SECTION
3/4" = 1'-0"



MAX. OPENING DIM.	REINFORCING
12" TO 18"	(1) #5 EA. SIDE
18" TO 2'-6"	(1) #5 EA. SIDE
2'-6" & LARGER	(2) #5 TOP & BOT. EA. SIDE

NOTES:
1. ALL OPENINGS LARGER THAN 12" SHALL BE TRIMMED AS SHOWN.
2. THIS REINF. IS IN ADDITION TO REINF. SHOWN ON PLANS
3. FOR MULTIPLE OPENINGS SEE 8A/S3.10

8 DETAIL
1/2" = 1'-0"

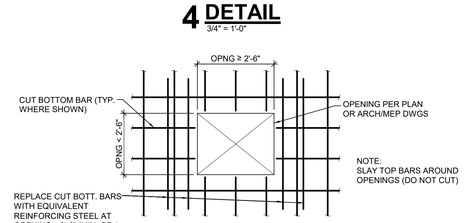


3 SECTION
3/4" = 1'-0"

OPENINGS WHICH ARE CLOSER TO ONE ANOTHER THAN THE DIAMETER OF THE LARGER OF THE TWO ARE CONSIDERED TO FORM A COMBINED OPENING.
- IF THE COMBINED OPENING IS LESS THAN 12" NO TRIM BARS ARE REQ'D.
- IF THE COMBINED OPENINGS IS MORE THAN 12", BUT LESS THAN 24", PROVIDE (1) #5 (TOP & BOT.) W/ 2'-0" EMBEDMENT PAST OPENING.

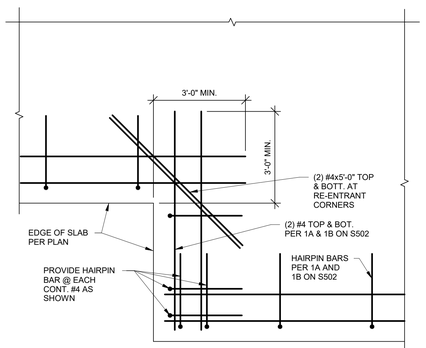
IF COMBINED OPENING IS LARGER THAN 24" SEE 8/S3.10.

8A SECTION
1/2" = 1'-0"



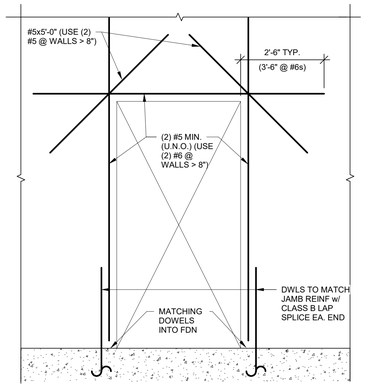
TYPICAL BOTTOM REINFORCING AT INTERIOR OPENING IN PODIUM

5 DETAIL
1/2" = 1'-0"



TYPICAL REINFORCING AT RE-ENTRANT CORNERS OF ELEVATED SLAB

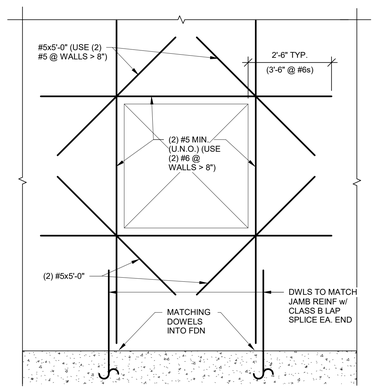
9 SECTION
3/4" = 1'-0"



TYPICAL WALL OPENING REINFORCING

NOTE:
1. THIS DETAIL APPLIES TO OPENINGS ≤ 4'-0"oc
2. DO NOT LOCATE VERTICAL WALL CONSTRUCTION JOINTS W/IN 5'-0" OF OPENINGS
3. THIS DETAIL DOES NOT APPLY TO OPENINGS DIRECTLY BELOW POINT LOADS OR W/IN SHEARWALLS

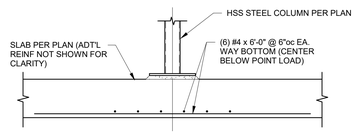
10 ELEVATION
3/4" = 1'-0"



TYPICAL WALL OPENING REINFORCING

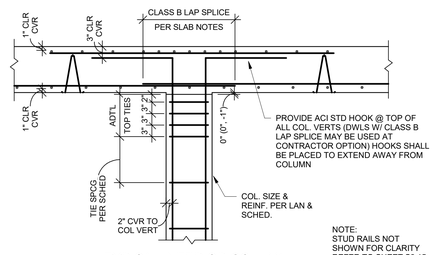
NOTE:
1. THIS DETAIL APPLIES TO OPENINGS ≤ 4'-0"oc
2. DO NOT LOCATE VERTICAL WALL CONSTRUCTION JOINTS W/IN 5'-0" OF OPENINGS
3. THIS DETAIL DOES NOT APPLY TO OPENINGS DIRECTLY BELOW POINT LOADS OR W/IN SHEARWALLS

11 ELEVATION
3/4" = 1'-0"



TYPICAL SLAB REINFORCING UNDER POINT LOADS OR WHERE INDICATED

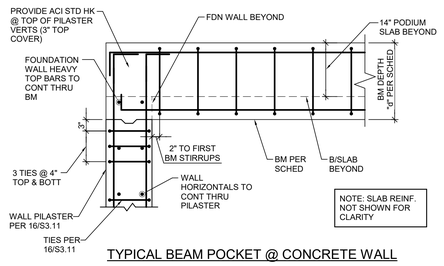
12 SECTION
3/4" = 1'-0"



NOTE: STUD RAILS NOT SHOWN FOR CLARITY REFER TO SHEET S3.15

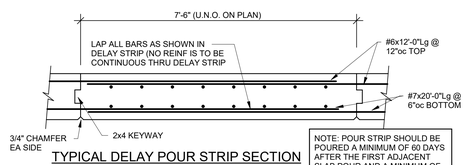
TYPICAL INTERIOR COLUMN

13 SECTION
3/4" = 1'-0"



TYPICAL BEAM POCKET @ CONCRETE WALL

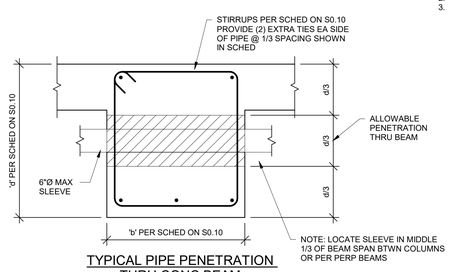
14 SECTION
3/4" = 1'-0"



TYPICAL DELAY POUR STRIP SECTION

NOTE: POUR STRIP SHOULD BE POURED A MINIMUM OF 60 DAYS AFTER THE FIRST ADJACENT SLAB POUR AND A MINIMUM OF 45 DAYS AFTER THE SECOND ADJACENT SLAB POUR.

15 SECTION
3/4" = 1'-0"



TYPICAL PIPE PENETRATION THRU CONC BEAM

16 SECTION
3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
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Project No.:	18017.19050.07,19050.08
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LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
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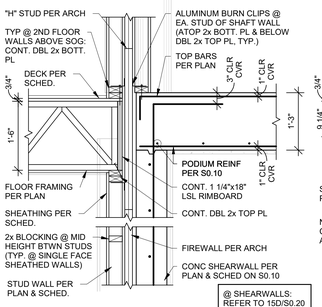
SHEET TITLE

CONCRETE FRAMING DETAILS

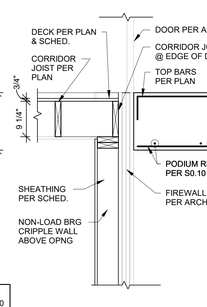
SHEET NUMBER

S3.10

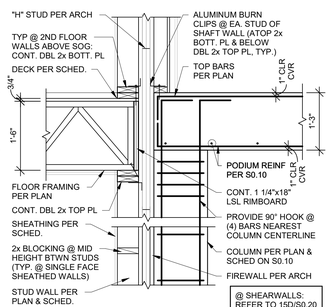


@ SHEARWALLS: REFER TO 15D/S0.20 FOR RIMBOARD FASTENERS

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



1A SECTION
3/4" = 1'-0"



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2 SECTION
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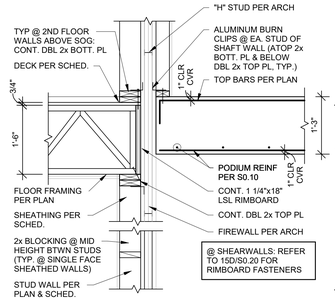
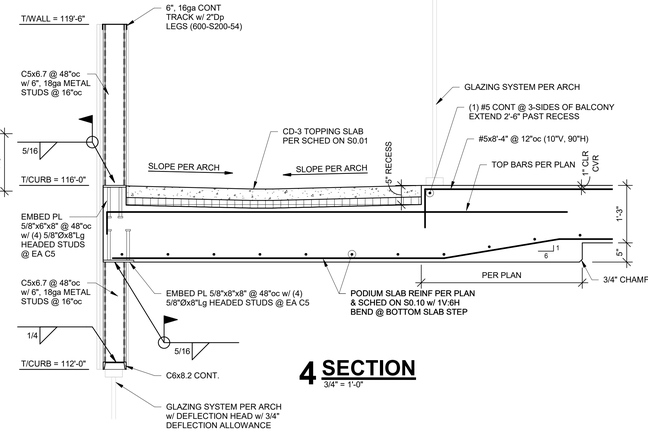


@ SHEARWALLS: REFER TO 15D/S0.20 FOR RIMBOARD FASTENERS

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



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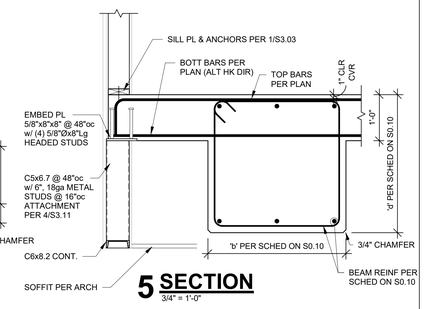

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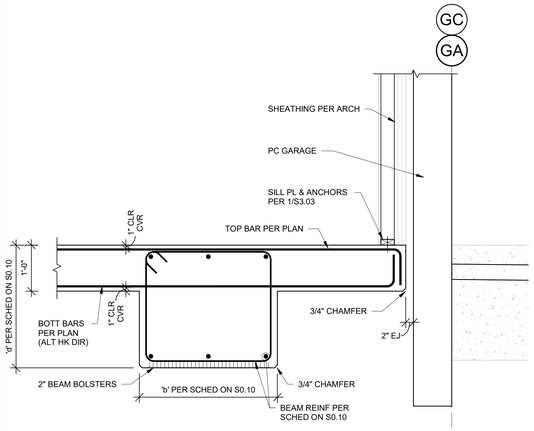
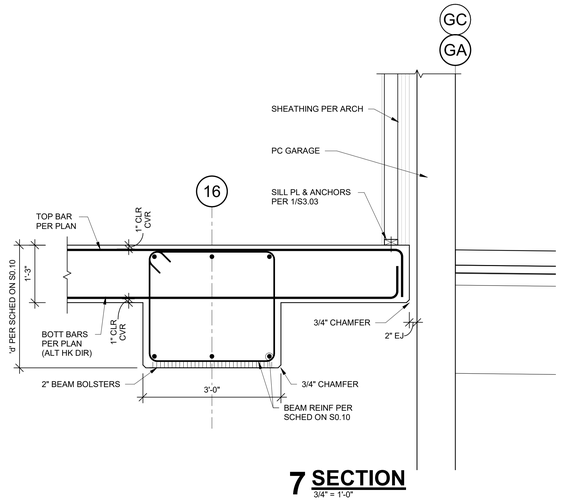
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
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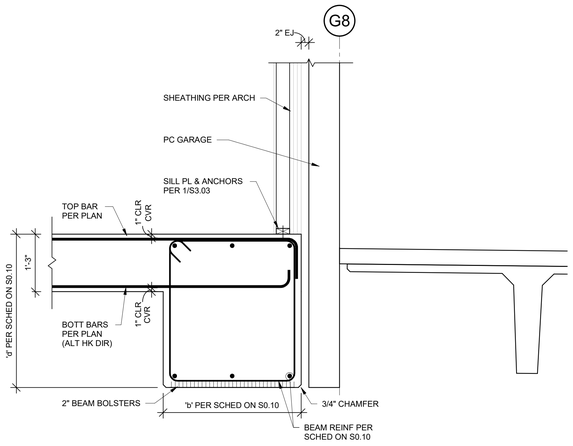
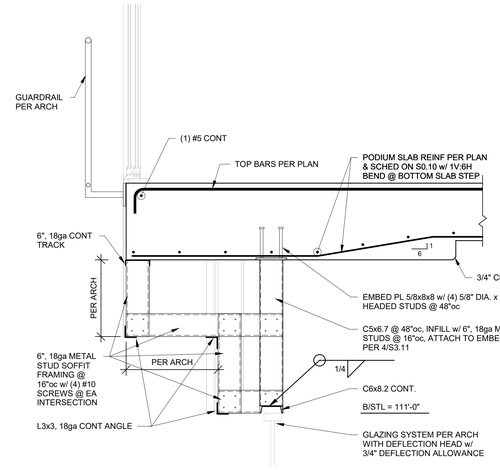
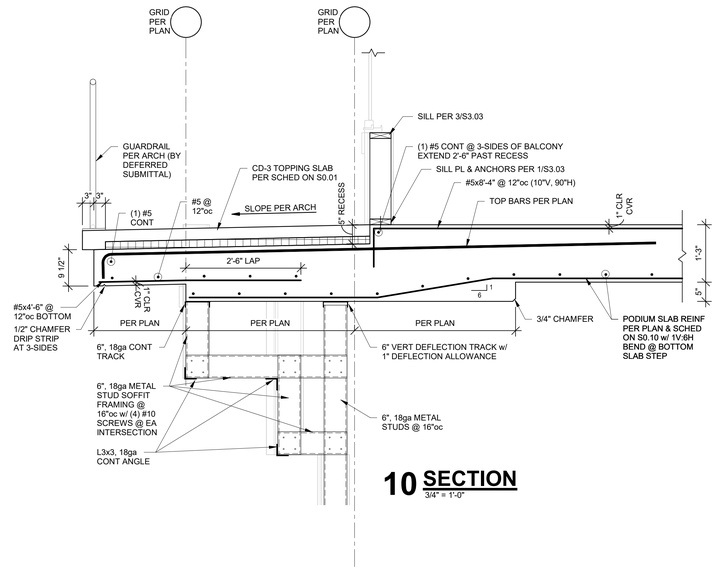


8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



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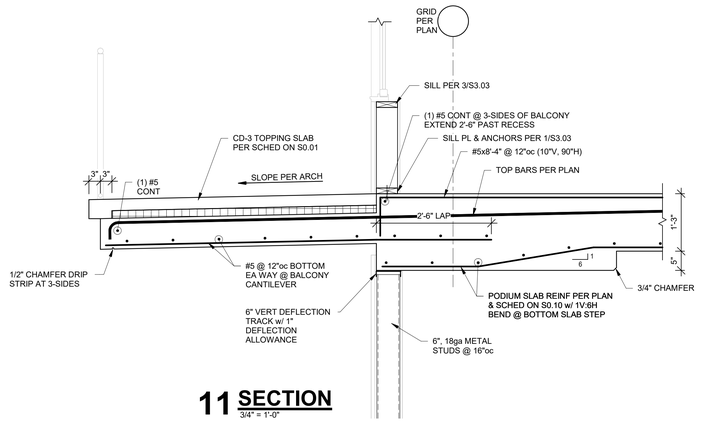
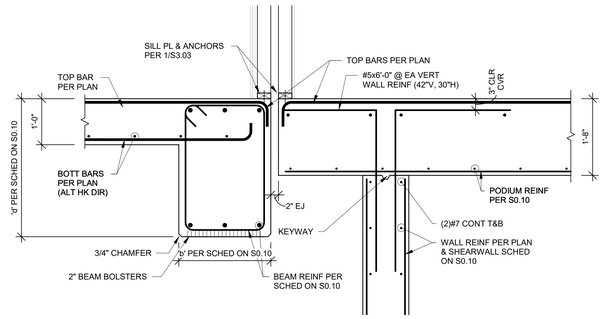
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"



12 SECTION
3/4" = 1'-0"

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paragon star

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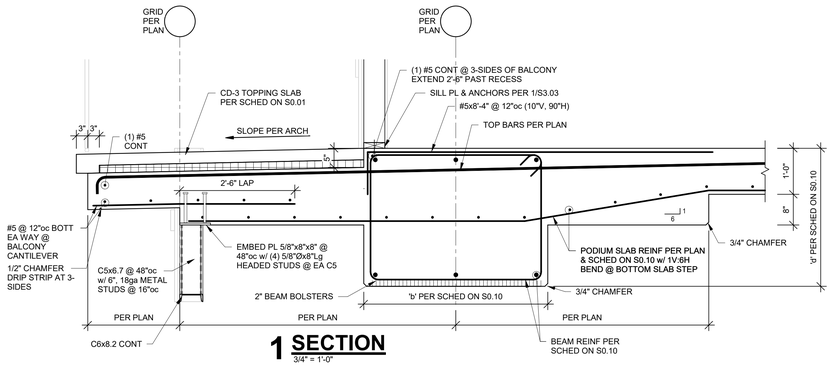
SHEET TITLE

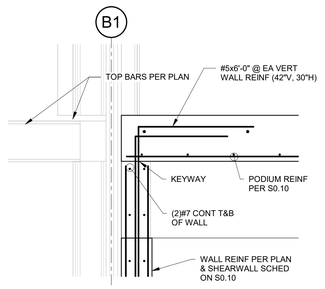
CONCRETE FRAMING DETAILS

SHEET NUMBER

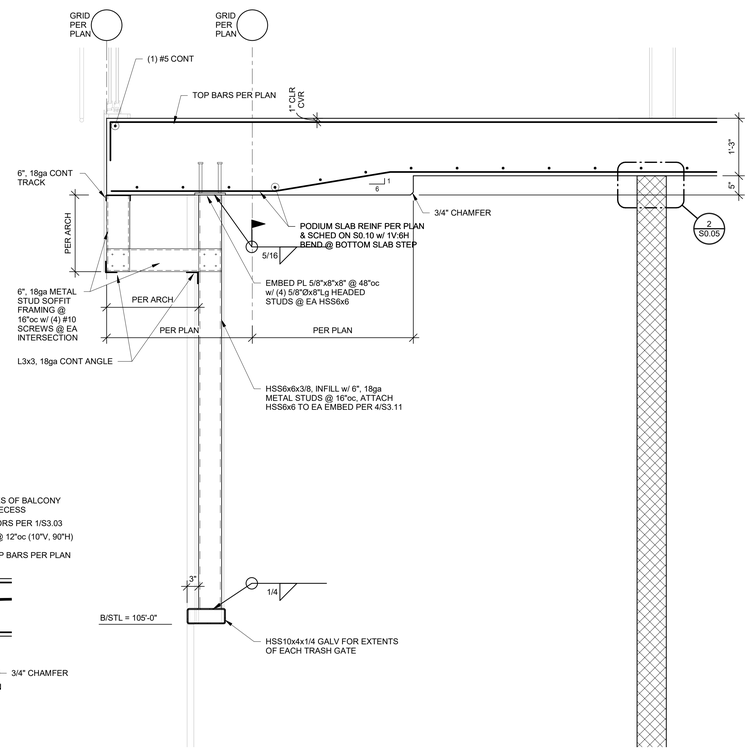
S3.11



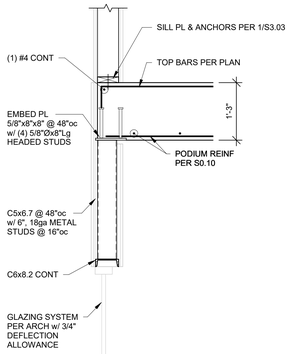
1 SECTION
3/4" = 1'-0"



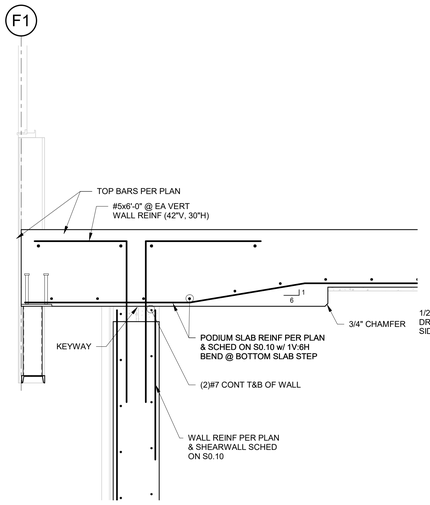
2 SECTION
3/4" = 1'-0"



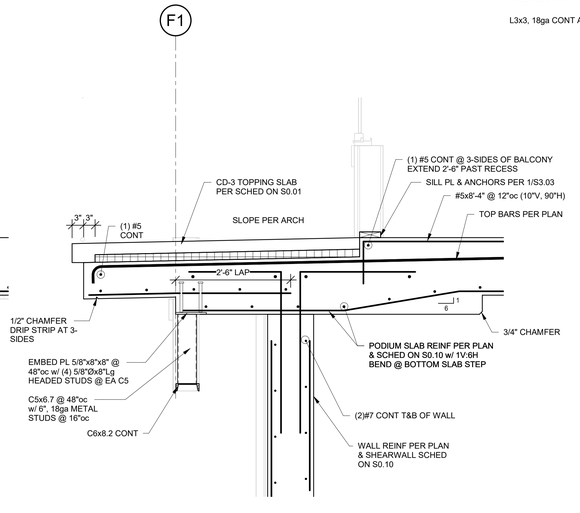
3 SECTION
3/4" = 1'-0"



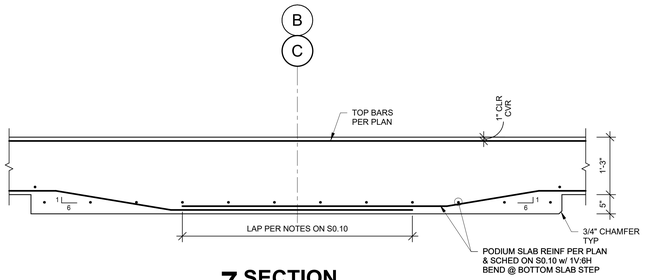
4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017,19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BERWERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

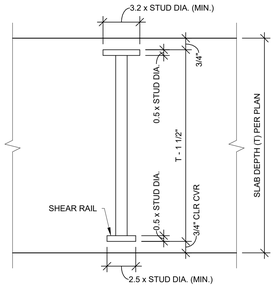
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Belleview Ave.
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

SHEET TITLE

CONCRETE FRAMING DETAILS

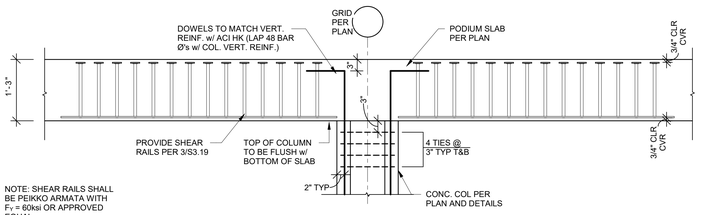
SHEET NUMBER

S3.12



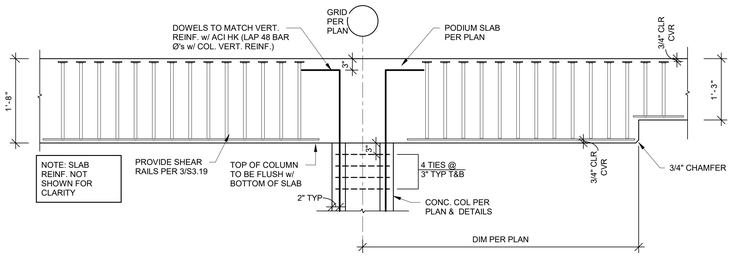
MINIMUM SHEAR RAIL DIMENSIONS

1 DETAIL
3" = 1'-0"

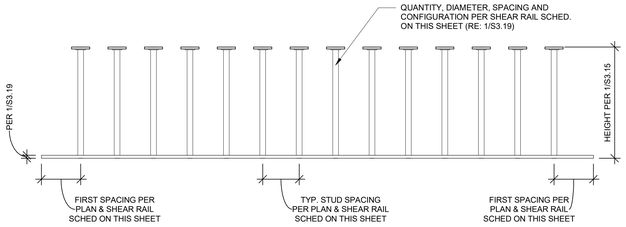


NOTE: SHEAR RAILS SHALL BE PEIKKO ARMATA WITH F_V = 60ksi OR APPROVED EQUAL

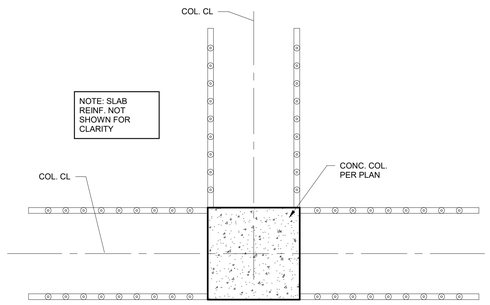
2A DETAIL
3/4" = 1'-0"



2B DETAIL
3/4" = 1'-0"

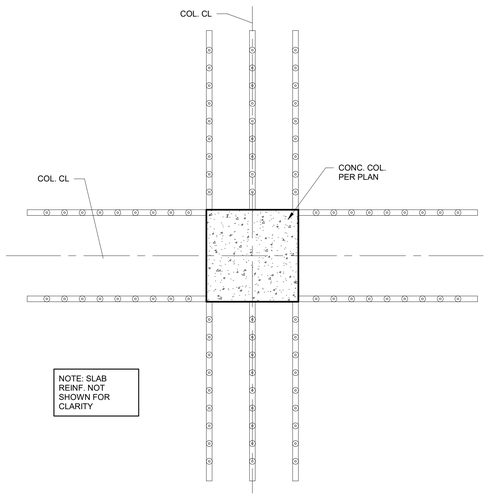


3 DETAIL
1 1/2" = 1'-0"



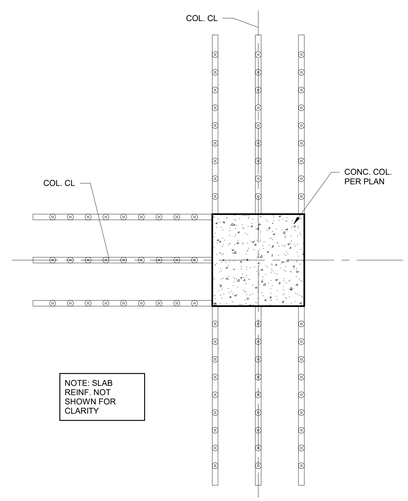
TYPICAL 6 COUNT SHEAR RAIL LAYOUT AT CONCRETE COLUMN

4 DETAIL
3/4" = 1'-0"



TYPICAL 10 COUNT SHEAR RAIL LAYOUT AT CONCRETE COLUMN

5 DETAIL
3/4" = 1'-0"

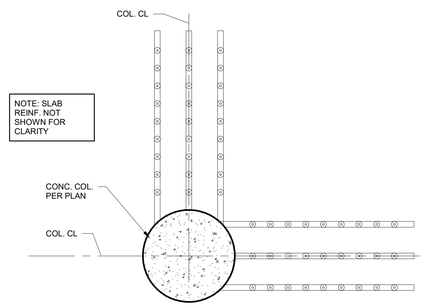


TYPICAL 9 COUNT SHEAR RAIL LAYOUT AT CONCRETE COLUMN

6 DETAIL
3/4" = 1'-0"

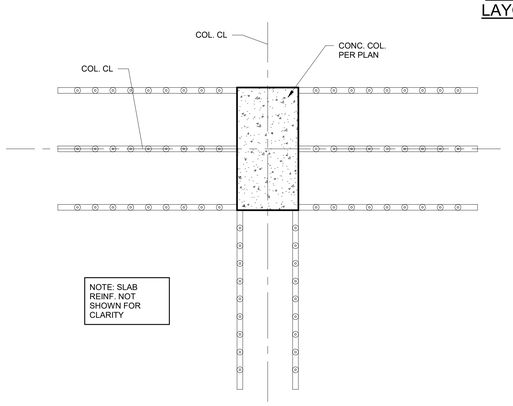
TYPICAL 8 COUNT SHEAR RAIL LAYOUT AT CONCRETE COLUMN

7 DETAIL
3/4" = 1'-0"



TYPICAL 6 COUNT SHEAR RAIL LAYOUT AT CIRCULAR CONCRETE COLUMN

8 DETAIL
3/4" = 1'-0"



TYPICAL 8 COUNT SHEAR RAIL LAYOUT AT RECTANGULAR CONCRETE COLUMN

9 DETAIL
3/4" = 1'-0"

SHEAR RAIL LEGEND						
TYPE	# OF RAILS	# OF STUDS PER RAIL	STUD Ø	STUD LENGTH (RE: NOTE 3)	TYPICAL SPACING BETWEEN STUDS	FIRST STUD SPACING
A	10	14	3/4"	13.5"	6"	3"
B	10	7	3/4"	18.5"	9"	4.5"
C	6	24	3/4"	13.5" 18.5"	6"	3"
D	6	19	3/4"	13.5" 18.5"	6"	3"
E	9	20	3/4"	13.5" 18.5"	6"	3"
F	8	16	3/4"	13.5" 18.5"	6"	3"
G	6	17	3/4"	13.5" 18.5"	6"	3"
H	8	21	3/4"	13.5" 18.5"	6"	3"
J	6	14	3/4"	13.5"	6"	3"
K	10	14	3/4"	13.5"	6"	3"
L	8	19	3/4"	13.5" 18.5"	6"	3"

NOTES:
1. SEE PLAN ON LAYOUT PLANS FOR CONFIGURATION AND COLUMNS THAT REQUIRE SHEAR RAILS.
2. REFER TO THIS SHEET FOR TYPICAL DETAILS FOR SHEAR RAILS
3. STUDS SHALL BE 18.5" WHEN THEY OCCUR IN A 20" SLAB THICKNESS
4. PROVIDE 8 SETS OF (4) STUDS, 3/4"Ø OF EACH STUD LENGTH (13.5", 18.5") WITH A 6" SLACING BETWEEN STUDS - TO BE PLACED IN THE FIELD AS DIRECTED BY THE EOR AROUND MEP PENETRATIONS

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
PROFESSIONAL ENGINEER
7-22-22

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
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Kansas City, MO 64111
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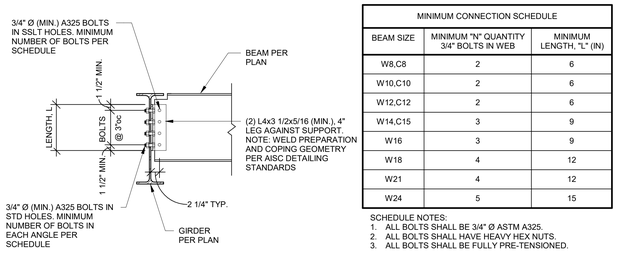
SHEET TITLE

SHEAR RAIL DETAILS

SHEET NUMBER

S3.15



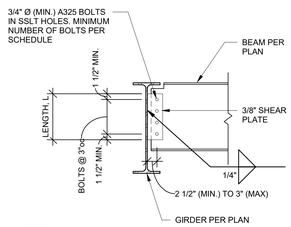
MINIMUM CONNECTION SCHEDULE		
BEAM SIZE	MINIMUM "N" QUANTITY 3/4" BOLTS IN WEB	MINIMUM LENGTH, "L" (IN)
W8,C8	2	6
W10,C10	2	6
W12,C12	2	6
W14,C15	3	9
W16	3	9
W18	4	12
W21	4	12
W24	5	15

SCHEDULE NOTES:
1. ALL BOLTS SHALL BE 3/4" Ø ASTM A325.
2. ALL BOLTS SHALL HAVE HEAVY HEX NUTS.
3. ALL BOLTS SHALL BE FULLY PRE-TENSIONED.

NOTES:
1. CONNECTIONS SHOWN IN THIS DETAIL ARE CONSIDERED MINIMUM REQUIREMENTS.
2. CONNECTION DETAILING SHALL COMPLY WITH THE STANDARD DETAILS SHOWN IN THE LATEST ADDITION OF THE AISC MANUAL OF THE STEEL CONNECTION.

TYPICAL BEAM TO GIRDER CONNECTION

1 DETAIL
3/4" = 1'-0"



MINIMUM CONNECTION SCHEDULE		
BEAM SIZE	MINIMUM "N" QUANTITY 3/4" BOLTS IN WEB	MINIMUM LENGTH, "L" (IN)
W8,C8	2	6
W10,C10	2	6
W12,C12	2	6
W14	3	9
W16	3	9
W18	4	12
W21	4	12
W24	5	15

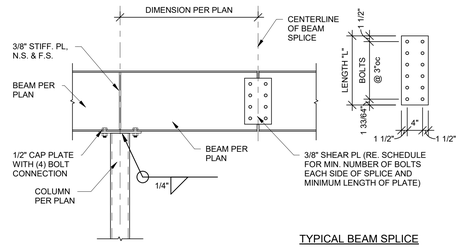
SCHEDULE NOTES:
1. ALL BOLTS SHALL BE 3/4" Ø ASTM A325.
2. ALL BOLTS SHALL HAVE HEAVY HEX NUTS.
3. ALL BOLTS SHALL BE FULLY PRE-TENSIONED.
4. CLIP ANGLES PER 1/S310 MAY BE USE AT CONTRACTORS OPTION.

NOTES:
1. CONNECTIONS SHOWN IN THIS DETAIL ARE CONSIDERED MINIMUM REQUIREMENTS.
2. FABRICATOR SHALL BE RESPONSIBLE FOR DESIGN AND DETAIL OF EACH CONNECTION FOR LOADS SHOWN ON PLANS IN ACCORDANCE WITH THE SPECIFICATION AND THE STRUCTURAL GENERAL NOTES.
3. SUGGESTED CONNECTION DETAILS ARE SHOWN.
4. FABRICATOR MAY OPT TO USE OTHER AISC APPROVED CONNECTIONS IN LIEU OF THESE SHOWN HEREIN.

TYPICAL BEAM TO GIRDER CONNECTION

2 DETAIL
3/4" = 1'-0"

Beam Connection Design Forces	
Member Size	End Reaction (U.N.O)
MC12X14.3	20.16 kip

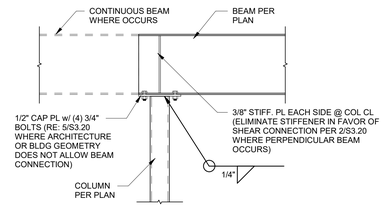


MINIMUM CONNECTION SCHEDULE		
BEAM SIZE	MINIMUM "N" QUANTITY 3/4" BOLTS IN WEB	MINIMUM LENGTH, "L" (IN)
W8,C8	2	6
W10,C10	3	9
W12,C12	3	9
W14,C15	3	9
W16	4	12
W18	5	15
W21	6	18
W24	6	18

SCHEDULE NOTES:
1. ALL BOLTS SHALL BE 3/4" Ø ASTM A325.
2. ALL BOLTS SHALL HAVE HEAVY HEX NUTS.
3. ALL BOLTS SHALL BE FULLY PRE-TENSIONED.

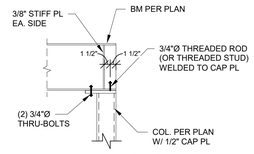
TYPICAL BEAM SPLICE

3 DETAIL
3/4" = 1'-0"



TYPICAL BEAM TO COLUMN CONNECTION

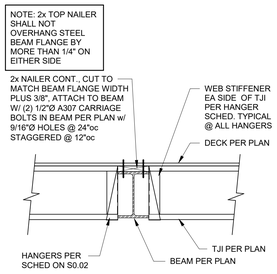
4 DETAIL
3/4" = 1'-0"



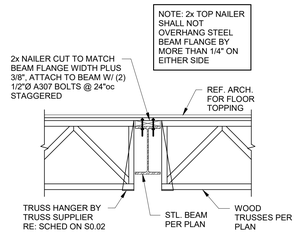
TYPICAL BEAM TO COLUMN CONNECTION @ DISCONTINOUS BEAMS

NOTE: WOOD FRAMING NOT

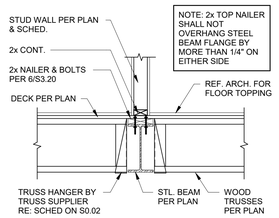
5 SECTION
3/4" = 1'-0"



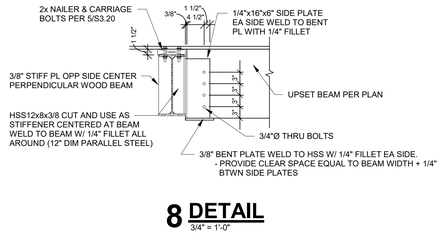
6 SECTION
3/4" = 1'-0"



6A SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"



8 DETAIL
3/4" = 1'-0"

NOT USED

8A SECTION
1 1/2" = 1'-0"

NOT USED

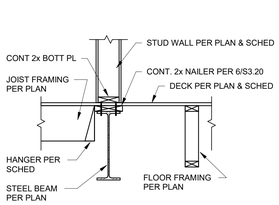
9 SECTION
1 1/2" = 1'-0"

NOT USED

10 SECTION
1 1/2" = 1'-0"

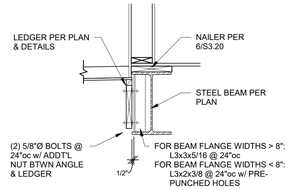
NOT USED

11 SECTION
1 1/2" = 1'-0"



TYPICAL CORRIDOR JOIST FRAMING

12 SECTION
3/4" = 1'-0"



TYPICAL BALCONY LEDGER FRAMING DETAIL

13 SECTION
3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07,19050.08
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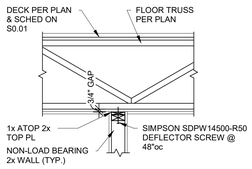
www.bdc-engrs.com

SHEET TITLE

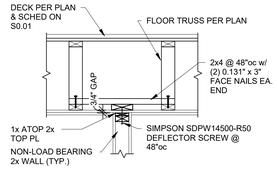
STEEL FRAMING DETAILS

SHEET NUMBER

S3.20

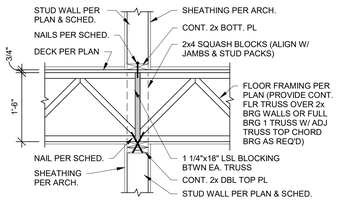


TYPICAL NON-LOAD BEARING WALL @ FLOOR TRUSS

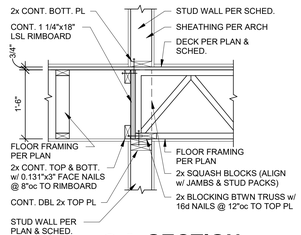


TYPICAL NON-LOAD BEARING WALL @ FLOOR TRUSS

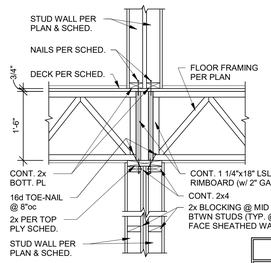
1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



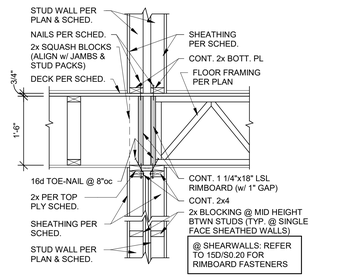
2A SECTION
3/4" = 1'-0"



@ SHEARWALLS: REFER TO 15D/S0.20 FOR RIMBOARD FASTENERS & SHEARWALL SCHED.

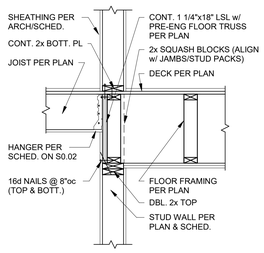
3 SECTION
3/4" = 1'-0"

TOP PLY SCHEDULE	
WALL STUD SIZE	TOP PLY SIZE
DBL 2x4	2x10
2x4 & 2x6	2x12
DBL 2x6	2x12

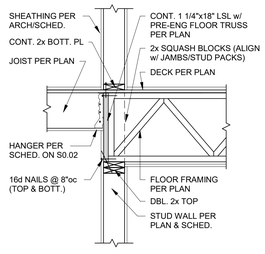


@ SHEARWALLS: REFER TO 15D/S0.20 FOR RIMBOARD FASTENERS

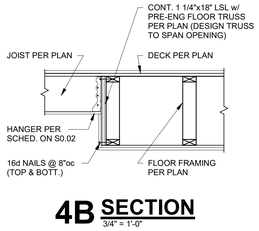
3A SECTION
3/4" = 1'-0"



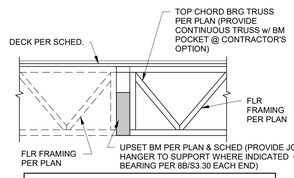
4 SECTION
3/4" = 1'-0"



4A SECTION
3/4" = 1'-0"

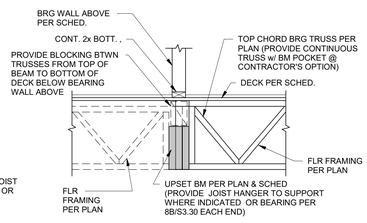


4B SECTION
3/4" = 1'-0"



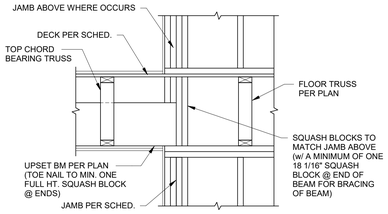
NOTE: RE: 6/S3.10 WHERE UPSET BM IS FULL HEIGHT OF FLR TRUSS OR TOP CHORD BEARING TRUSS IS NOT USED.

TYPICAL SHALLOW UPSET BEAM WITHOUT BEARING WALL ABOVE



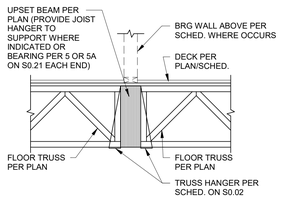
TYPICAL SHALLOW UPSET BEAM SUPPORTING BEARING WALL ABOVE

5 SECTION
3/4" = 1'-0"



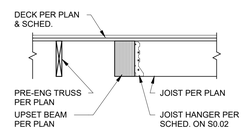
TYPICAL UPSET BEAM BEARING

5A SECTION
3/4" = 1'-0"



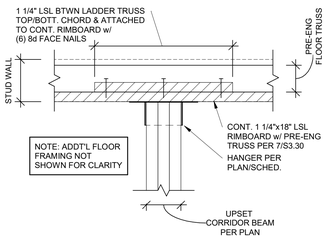
TYPICAL FULL DEPTH UPSET BEAM

6 SECTION
3/4" = 1'-0"



TYPICAL UPSET CORRIDOR BEAM

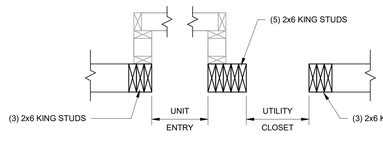
7 SECTION
3/4" = 1'-0"



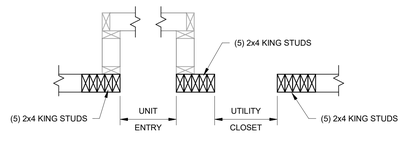
7A SECTION
1 1/2" = 1'-0"

NOT USED

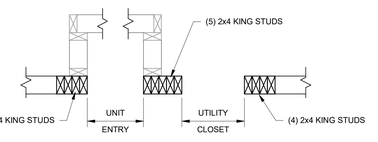
8 SECTION
1 1/2" = 1'-0"



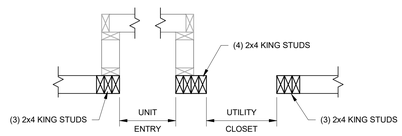
8A DETAIL
1" = 1'-0"



8B DETAIL
1" = 1'-0"



8C DETAIL
1" = 1'-0"



8D DETAIL
1" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.: 18017.19050.07,19050.08
Date: 06.28.2022
Issued For: FOR CONSTRUCTION

REVISIONS

No.	Date	Description
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
7-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
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4338 Belleview Ave.
Kansas City, MO 64111
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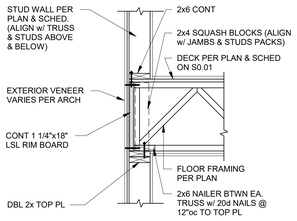
SHEET TITLE

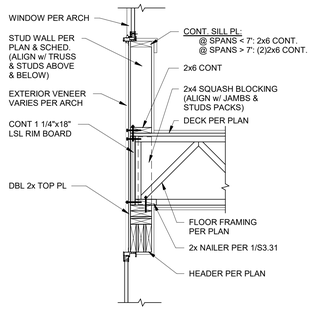
WOOD FLOOR FRAMING DETAILS

SHEET NUMBER

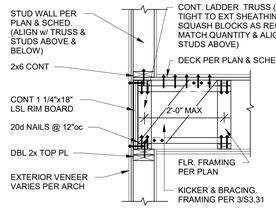
S3.30



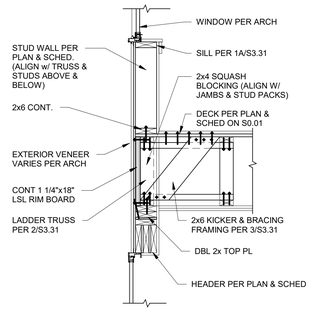
1 SECTION
3/4" = 1'-0"



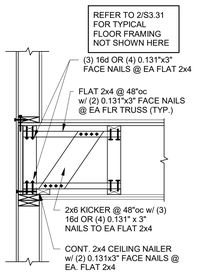
1A SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"

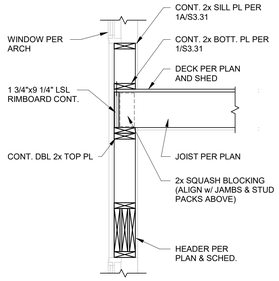


2A SECTION
3/4" = 1'-0"



TYPICAL KICKER & BRACING FRAMING DETAIL

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



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

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
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SHEET TITLE

WOOD FLOOR FRAMING DETAILS

SHEET NUMBER

S3.31

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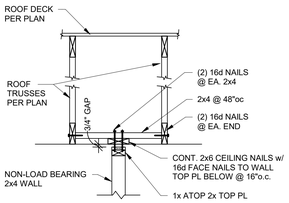
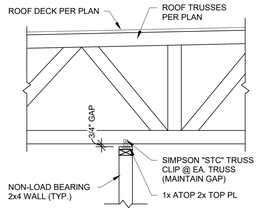


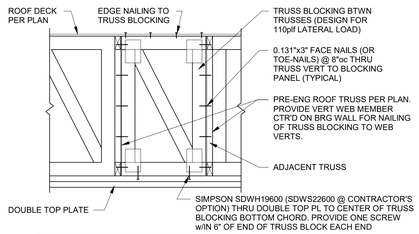
TYPICAL NON-LOAD BEARING WALL/TRUSS AT ROOF

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



TYPICAL NON-LOAD BEARING WALL/TRUSS AT ROOF

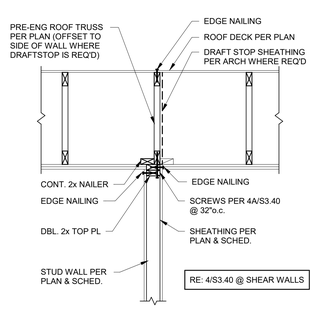
1A SECTION 3/4" = 1'-0"



NOTES:
1. PROVIDE TRUSS BLOCKING @ ROOF LEVEL ATOP ALL SHEARWALLS WHEN A CONTINUOUS SHEAR/GIRDER TRUSS IS NOT USED.
2. TRUSS BLOCK MAY CONSIST OF A FRAMED WOOD STRUCTURAL PANEL OR PREFAB TRUSS BLOCK.
3. TRUSS MANUFACTURER TO DESIGN PREFAB TRUSS BLOCK.

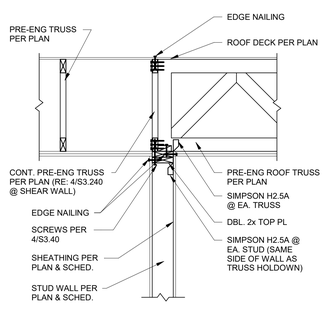
TYPICAL ROOF TRUSS BLOCKING AT SHEARWALLS

2 SECTION 3/4" = 1'-0"



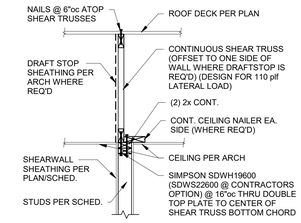
TYP. ROOF TRUSS PARALLEL W/ WALL

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



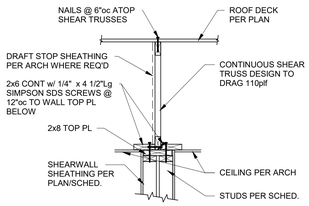
TYP. INTERSECTING ROOF TRUSSES @ BRG. WALL

3A SECTION 3/4" = 1'-0"



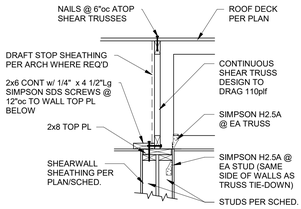
TYPICAL LATERAL TRUSS ATOP PARALLEL SHEARWALL

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



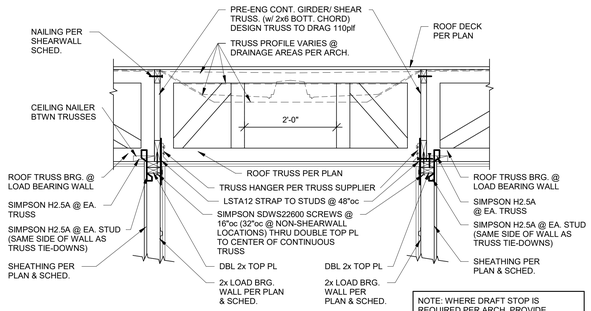
TYPICAL SHEAR TRUSS ATOP SHEARWALL

5 SECTION 3/4" = 1'-0"



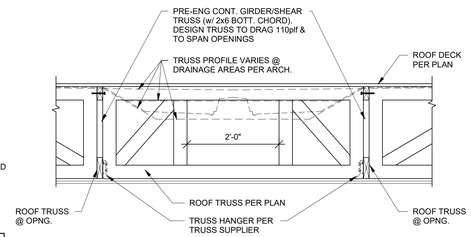
TYPICAL SHEAR TRUSS ATOP SHEARWALL

5A SECTION 3/4" = 1'-0"

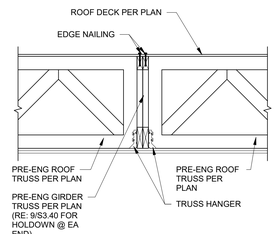


NOTE: WHERE DRAFT STOP IS REQUIRED PER ARCH, PROVIDE SHEATHING DIRECTLY TO CONT. GIRDER/SHEAR TRUSS & PROVIDE JOIST HANGER TO O.F. OF SHEATHING PER 2A/S3.21. REFER TO 6/S3.23 FOR DETAIL @ STAIRS

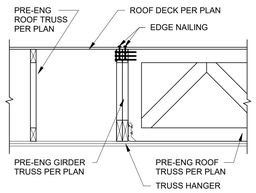
6 SECTION 3/4" = 1'-0"



6A SECTION 3/4" = 1'-0"



7 SECTION 3/4" = 1'-0"



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

TYPICAL DETAIL AT ROOF GIRDER TRUSS BEARING

9 SECTION 3/4" = 1'-0"

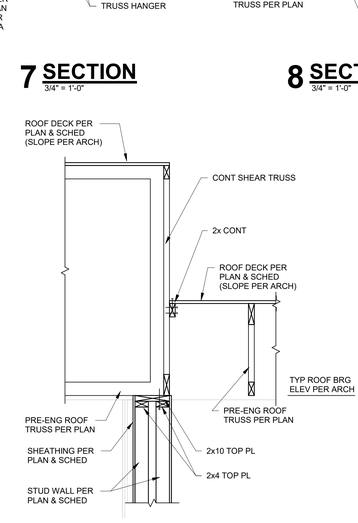
TYPICAL SHEAR TRUSS ATOP UNIT SEPARATION SHEARWALL AT EXPANSION JOINT

10 SECTION 3/4" = 1'-0"

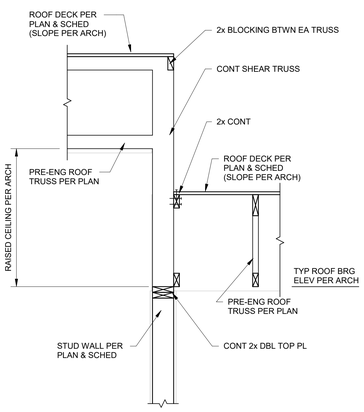
11 SECTION 3/4" = 1'-0"

12A SECTION 3/4" = 1'-0"

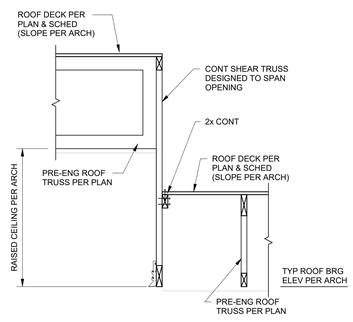
12B SECTION 3/4" = 1'-0"



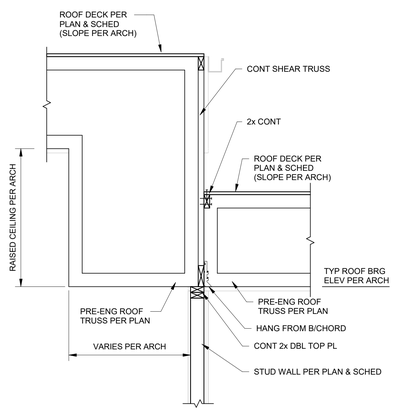
13 SECTION 3/4" = 1'-0"



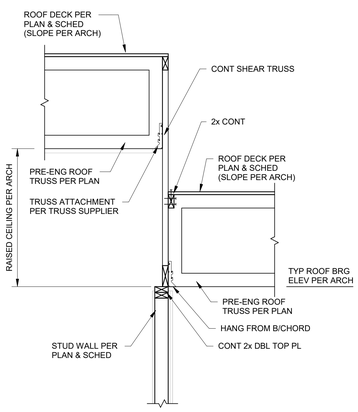
14 SECTION 3/4" = 1'-0"



14A SECTION 3/4" = 1'-0"



15 SECTION 3/4" = 1'-0"



15A SECTION 3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
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Kansas City, MO 64111
816.531.4144
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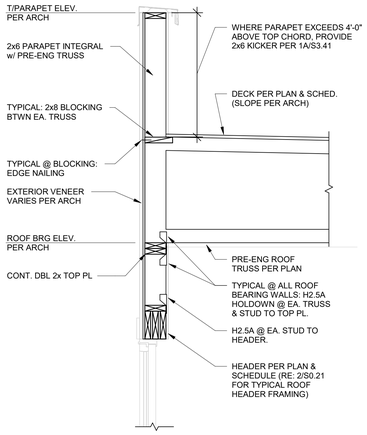
SHEET TITLE

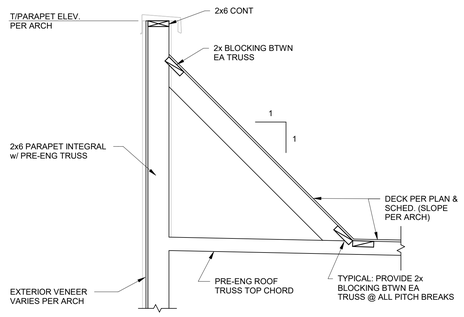
WOOD ROOF FRAMING DETAILS

SHEET NUMBER

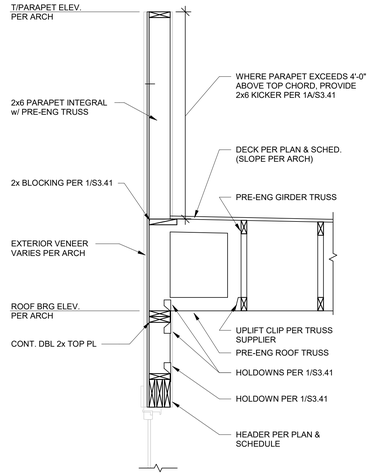
S3.40



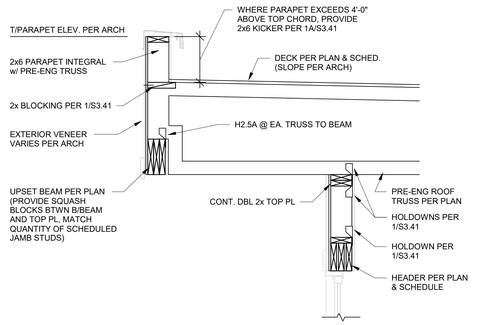
1 SECTION
3/4" = 1'-0"



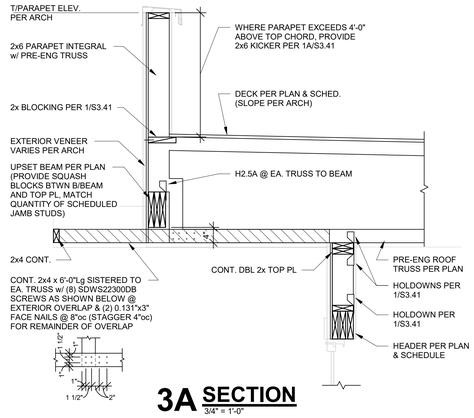
1A SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



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



3A SECTION
3/4" = 1'-0"

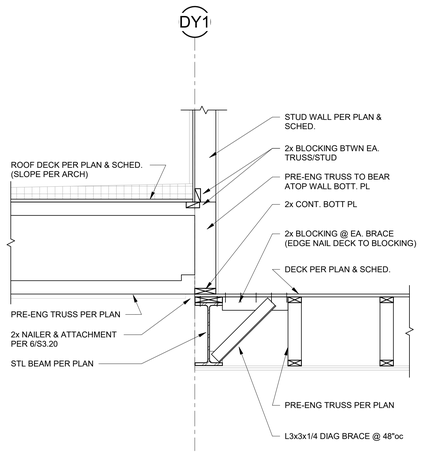
4 SECTION
3/4" = 1'-0"

5 SECTION
3/4" = 1'-0"

5A SECTION
3/4" = 1'-0"

6 SECTION
3/4" = 1'-0"

7 SECTION
3/4" = 1'-0"



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

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paragon star

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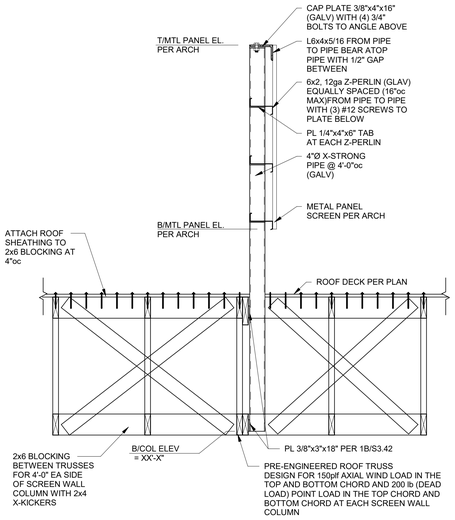
SHEET TITLE

WOOD ROOF FRAMING DETAILS

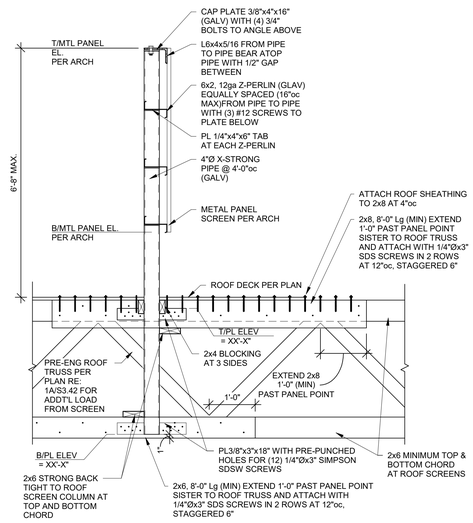
SHEET NUMBER

S3.41



TYPICAL MECHANICAL SCREENWALL

1A SECTION
3/4" = 1'-0"



TYPICAL MECHANICAL SCREENWALL

1B SECTION
3/4" = 1'-0"

C:\Users\CAB\Documents\FW2101 - S21 - Paragon Star_cbeverlinP5V3B.rvt

paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

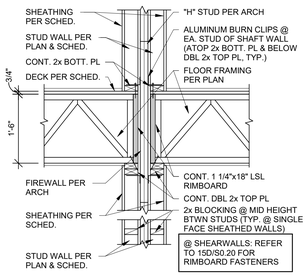
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Belleview Ave.
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

SHEET TITLE

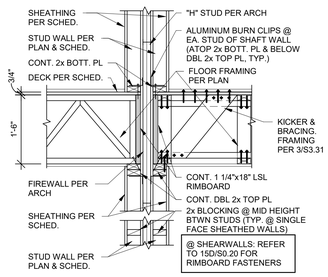
WOOD ROOF FRAMING DETAILS

SHEET NUMBER

S3.42



1A SECTION
3/4" = 1'-0"



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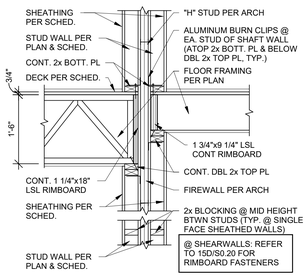
3/4" = 1'-0"



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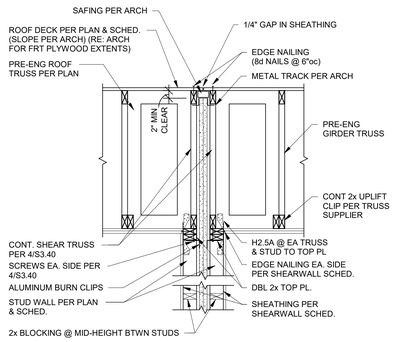

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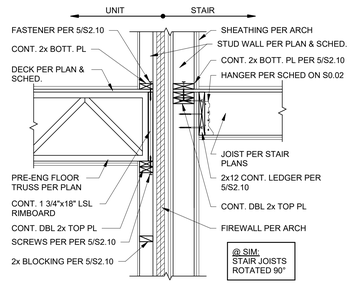

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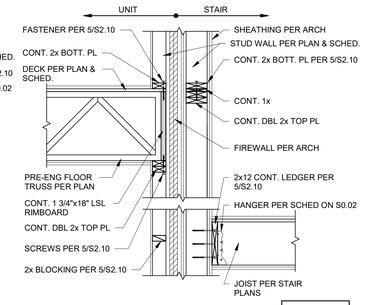

3B SECTION
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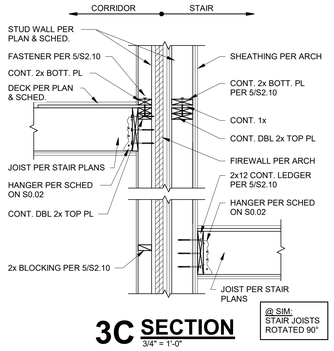

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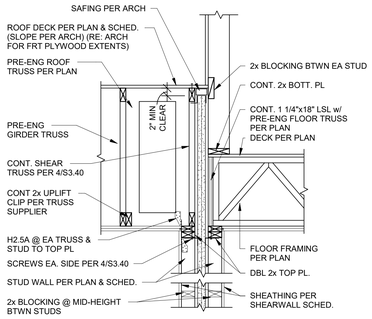
3/4" = 1'-0"



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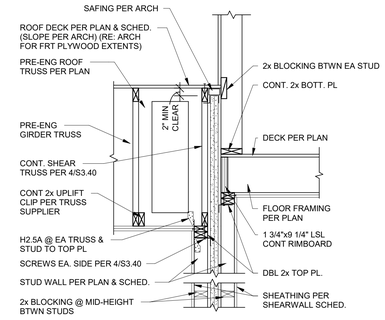
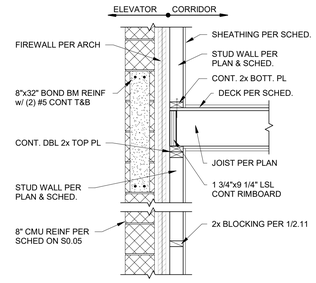


4B SECTION
3/4" = 1'-0"



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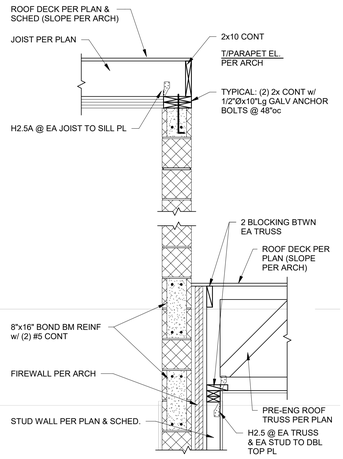
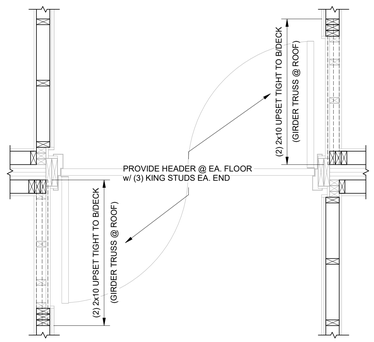


6 SECTION
3/4" = 1'-0"



7 PLAN DETAIL
3/4" = 1'-0"

C:\Users\CAB\Documents\FWI2101 - S21 - Paragon Star_cbevelin\PSV3B.rvt

paragon star

PARAGON STAR NORTH VILLAGE

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Project No.:	18017.19050.07,19050.08
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REVISIONS

No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

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CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
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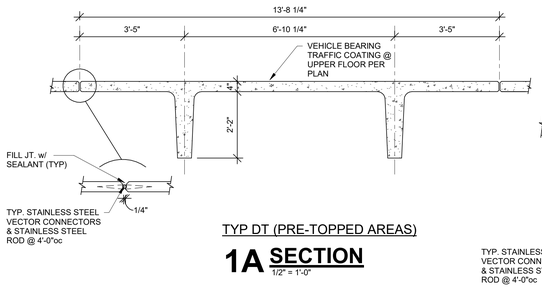
SHEET TITLE

WOOD FIREWALL DETAILS

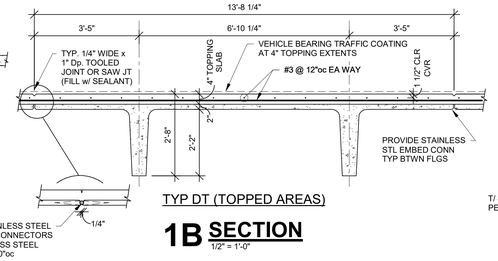
SHEET NUMBER

S3.45



TYP DT (PRE-TOPPED AREAS)

1A SECTION
1/2" = 1'-0"



TYP DT (TOPPED AREAS)

1B SECTION
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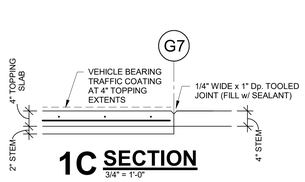

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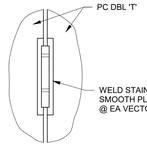
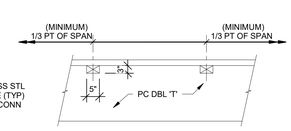
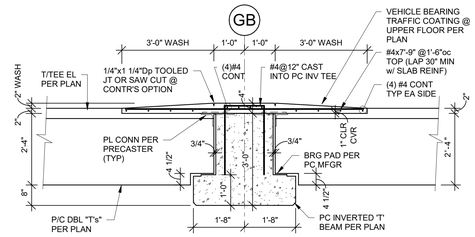


2 SECTION
1 1/2" = 1'-0"

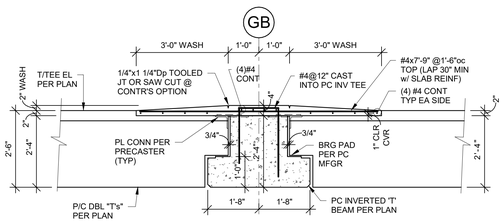


3 SECTION
1/2" = 1'-0"



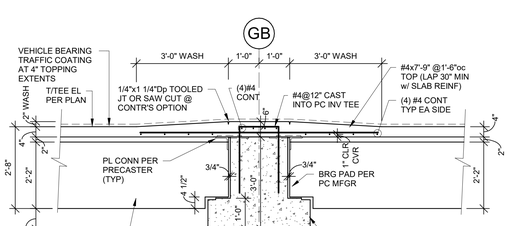
TYP INVERTED "T" (UNTOPPED AREAS)

4 SECTION
1/2" = 1'-0"



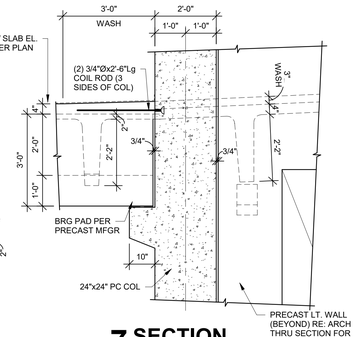
TYP INVERTED "T" (UNTOPPED AREAS)
2ND FLOOR - NORTH

5 SECTION
1/2" = 1'-0"

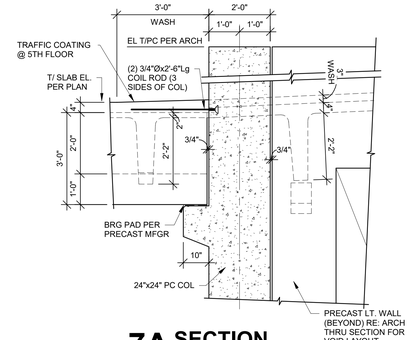


INVERTED "T" AT RAMP (FIELD TOPPED AREAS)

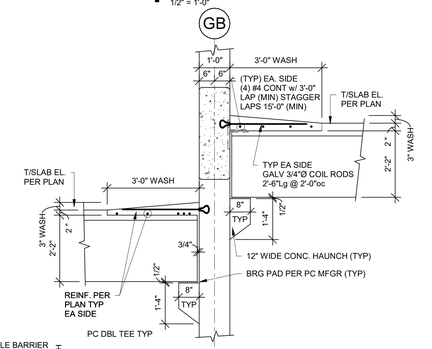
6 SECTION
1/2" = 1'-0"



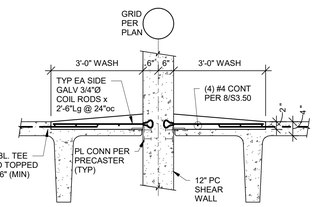
7 SECTION
1/2" = 1'-0"



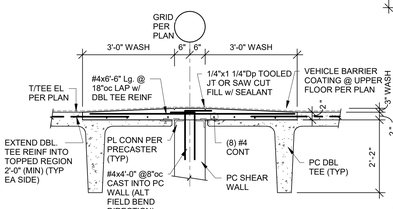
7A SECTION
1/2" = 1'-0"



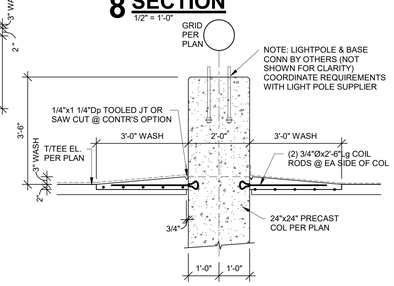
8 SECTION
1/2" = 1'-0"



12 SECTION
1/2" = 1'-0"



13 SECTION
1/2" = 1'-0"



14 SECTION
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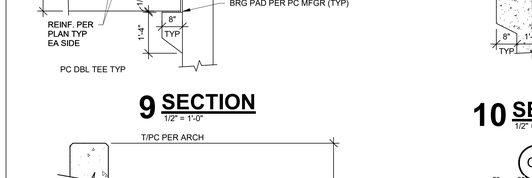
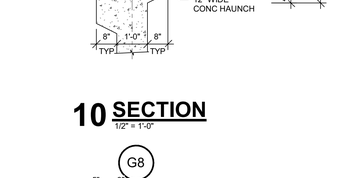
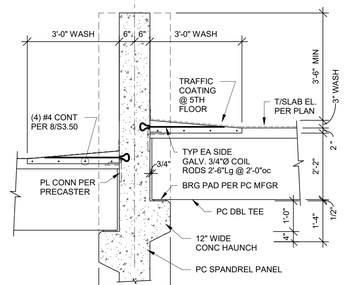


9 SECTION
1/2" = 1'-0"



10 SECTION
1/2" = 1'-0"



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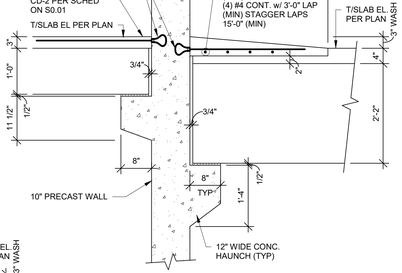
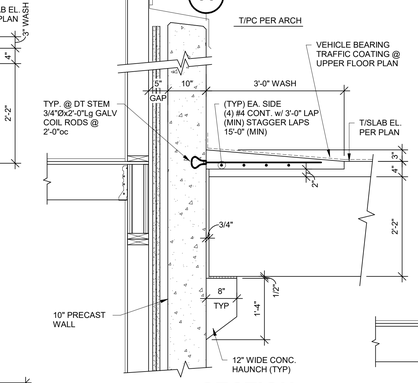


16B SECTION
3/4" = 1'-0"



16C SECTION
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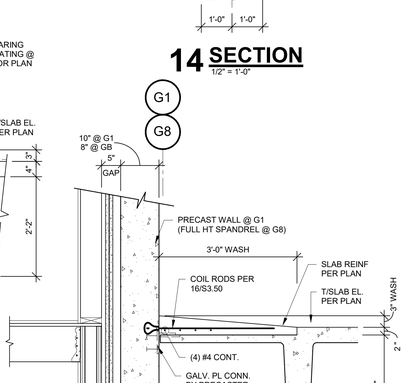

17 SECTION
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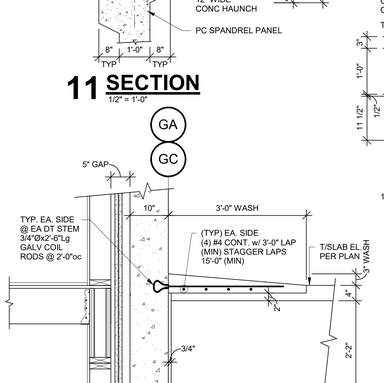

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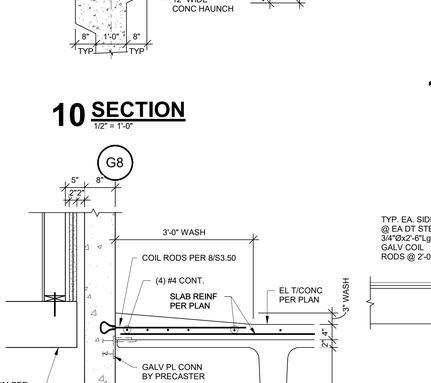

15D SECTION
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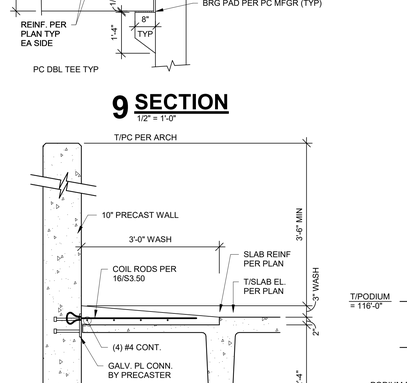

15 SECTION
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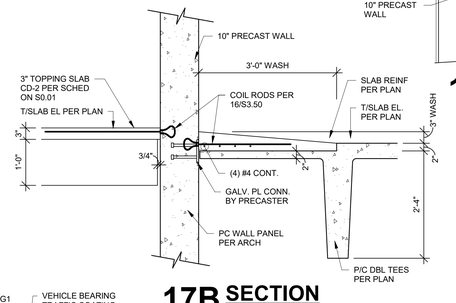

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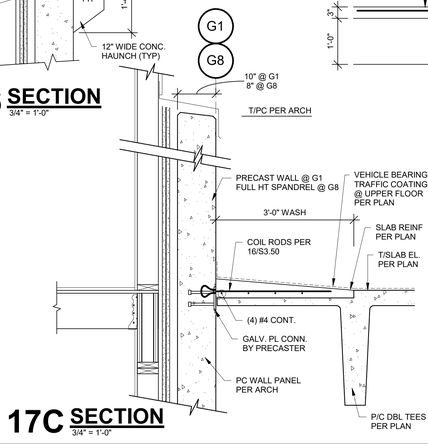

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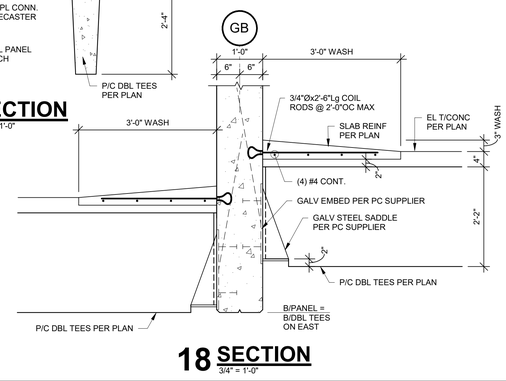

18 SECTION
3/4" = 1'-0"

C:\Users\CAB\Documents\FW\2101 - S21 - Paragon Star_cbevelin\P5V3B.rvt

paragon star

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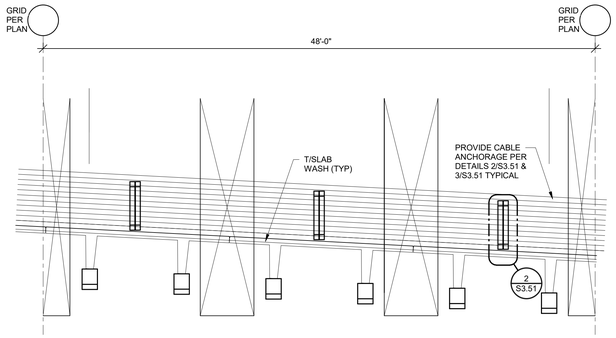
www.bdc-engrs.com

SHEET TITLE

PRECAST GARAGE FRAMING DETAILS

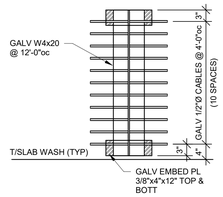
SHEET NUMBER

S3.50



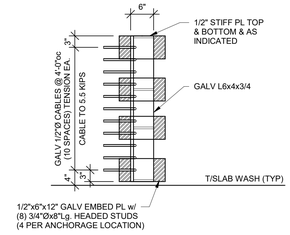
TYP LT. WALL

1 ELEVATION
1/4" = 1'-0"



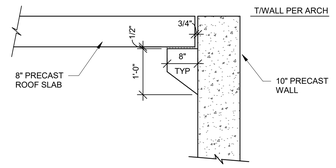
TYPICAL CABLE SUPPORT DETAIL

2 SECTION
3/4" = 1'-0"

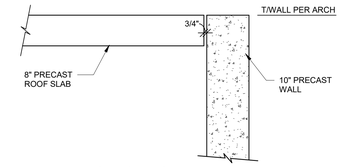


TYPICAL CABLE END ANCHORAGE DETAIL
NOTE: TENSION EA CABLE TO 5.5kips

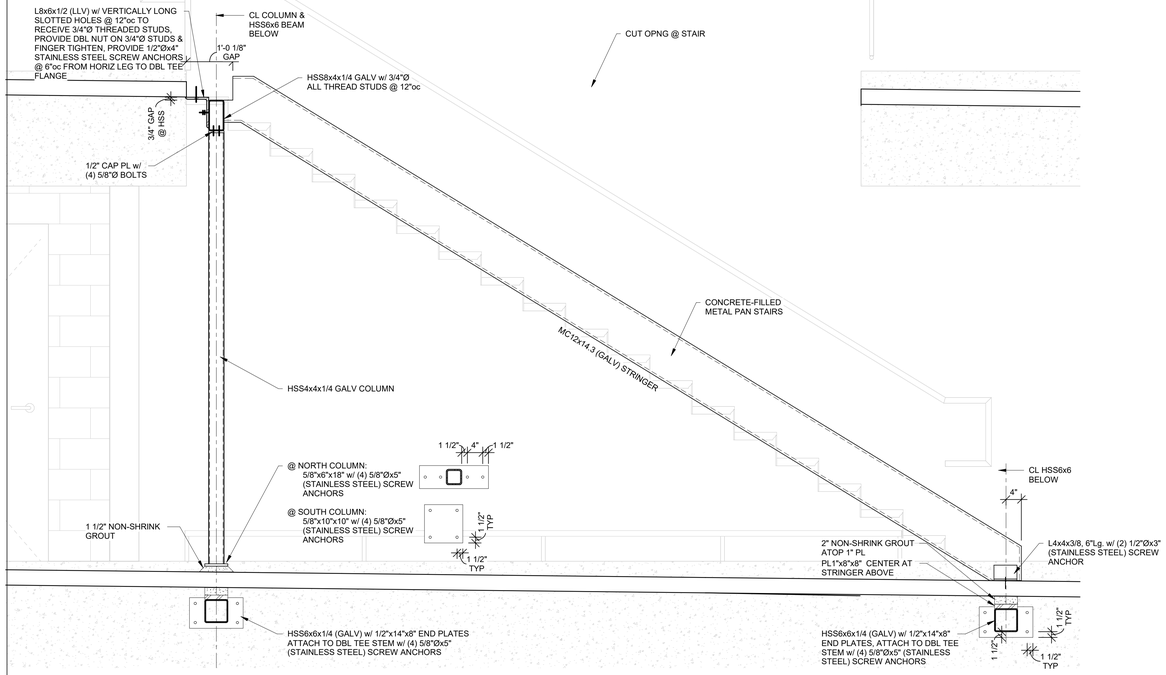
3 SECTION
3/4" = 1'-0"



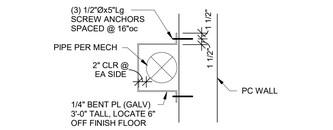
4 SECTION
3/4" = 1'-0"



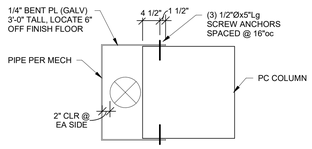
5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

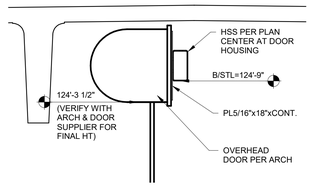


PLAN VIEW @ WALL

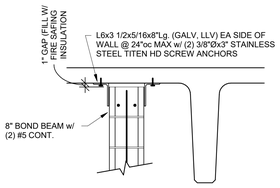


PLAN VIEW @ COLUMN

7 TYPICAL PIPE PROTECTION DETAIL
3/4" = 1'-0"

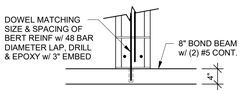


10 SECTION
3/4" = 1'-0"



TYPICAL TOP CMU TO PRECAST

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



TYPICAL BOTTOM CMU TO PRECAST

9 SECTION
3/4" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
Date:	06.28.2022
Issued For:	FOR CONSTRUCTION

REVISIONS

No.	Date	Description

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-22
PROFESSIONAL ENGINEER

PROJECT TEAM

ARCHITECT	FINKLE+WILLIAMS ARCHITECTURE
CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
STRUCTURAL	BOB D. CAMPBELL
PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
ELECTRICAL	LATIMER SOMMERS
FIRE PROTECTION	LATIMER SOMMERS
CONTRACTOR	BRINKMANN CONSTRUCTORS

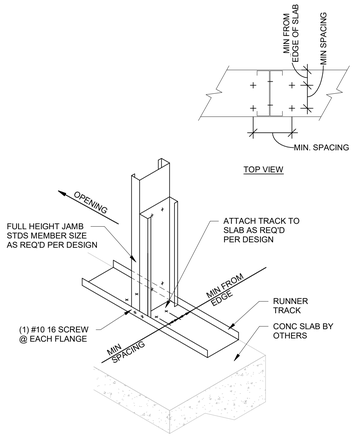
BOB D. CAMPBELL & CO.
Structural Engineers
Since 1957
4338 Belleview Ave.
Kansas City, MO 64111
816.531.4144
www.bdc-engrs.com

SHEET TITLE

PRECAST GARAGE FRAMING DETAILS

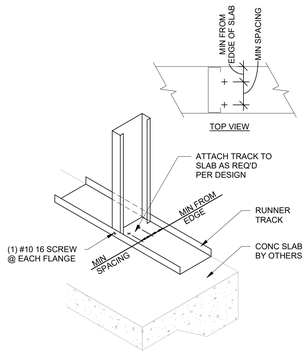
SHEET NUMBER

S3.51



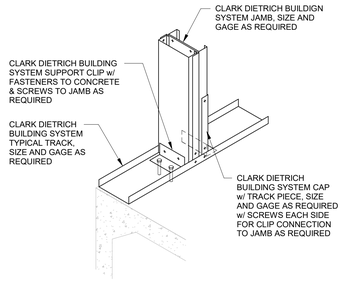
TYPICAL WINDOW JAMB ANCHORAGE

1 DETAIL 3/4" = 1'-0"



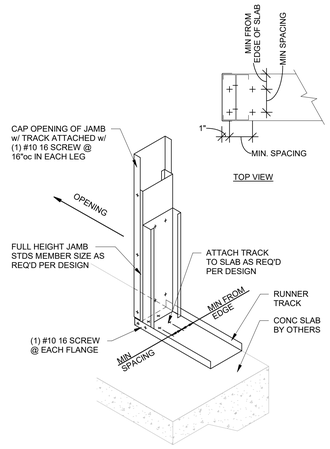
TYPICAL STUD TO TRACK DETAIL

2 DETAIL 3/4" = 1'-0"



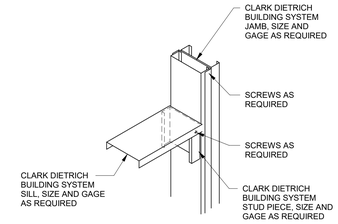
TYPICAL JAMB STUD BASE CONNECTION

3 DETAIL 3/4" = 1'-0"



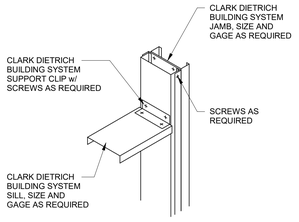
TYPICAL DOOR JAMB ANCHORAGE

4 DETAIL 3/4" = 1'-0"



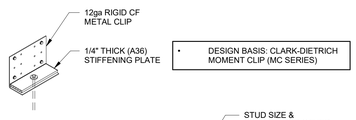
TYPICAL SILL DETAIL

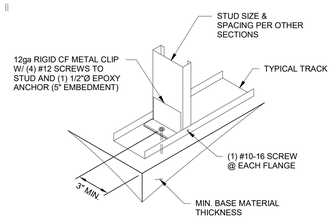
5 DETAIL 3/4" = 1'-0"



TYPICAL SILL DETAIL

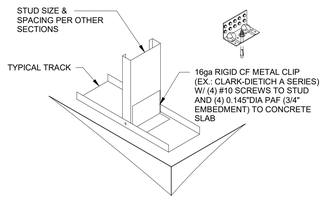
6 DETAIL 3/4" = 1'-0"





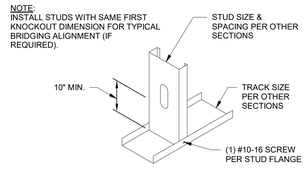
MOMENT CLIP CONNECTION TO CONCRETE SLAB

7 DETAIL 3/4" = 1'-0"



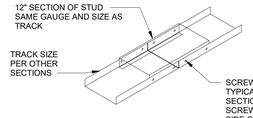
BASE CONNECTION TO CONCRETE SLAB

8 DETAIL 3/4" = 1'-0"



STUD-TO-TRACK CONNECTION

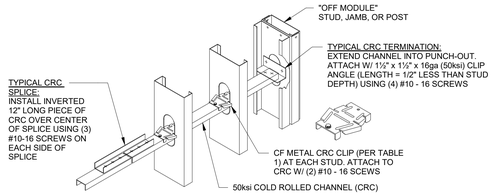
9 DETAIL 3/4" = 1'-0"



BOTTOM TRACK SPLICE

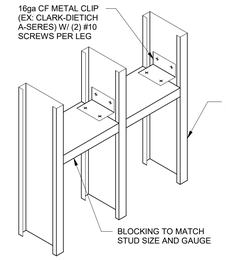
10 DETAIL 3/4" = 1'-0"

TABLE 1	
STUD THICKNESS	CONNECTOR
33 - 43 MIL	18ga
54 - 97 MIL	14ga



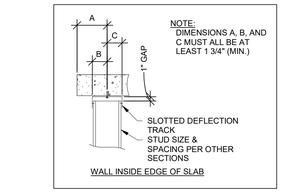
LATERAL BRACING

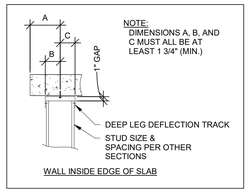
11 DETAIL 3/4" = 1'-0"

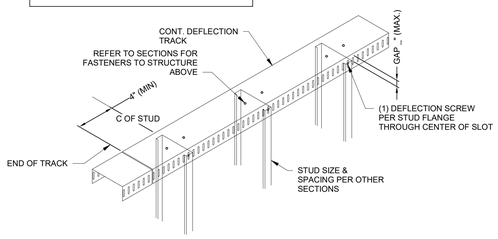


SOLID BLOCKING

12 DETAIL 3/4" = 1'-0"

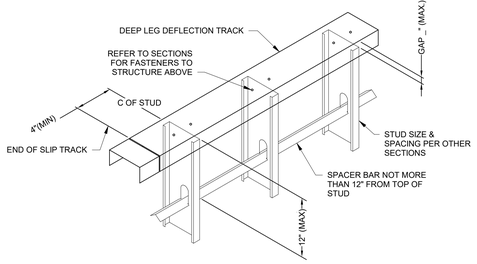






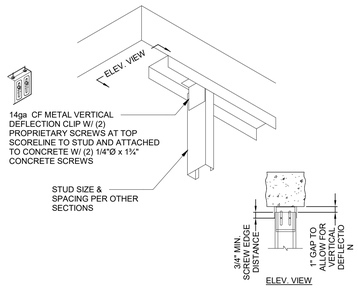
SLOTTED DEFLECTION TRACK

13 DETAIL 3/4" = 1'-0"



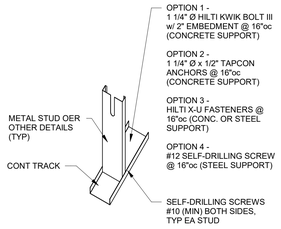
DEEP LEG DEFLECTION TRACK

14 DETAIL 3/4" = 1'-0"



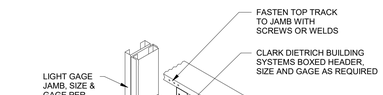
VERTICAL DEFLECTION CLIP TO CONCRETE

15 DETAIL 3/4" = 1'-0"

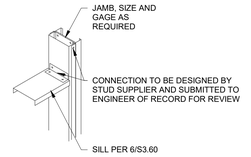


BOTTOM TRACK CONNECTION

16 DETAIL 3/4" = 1'-0"



A DETAIL 1/2" = 1'-0"



B DETAIL 1/2" = 1'-0"

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paragon star

PARAGON STAR NORTH VILLAGE

3200 NW PARAGON PKWY
LEE'S SUMMIT, MO 64081

Project No.:	18017.19050.07,19050.08
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No.	Date	Description
2	7.11.22	ADDENDUM 1
3	7.20.22	ADDENDUM 2

REGISTRATION

STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
Number PE-2017012505
1-22-23
PROFESSIONAL ENGINEER

PROJECT TEAM

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CIVIL	GBA ENGINEERS
LANDSCAPE	LAND 3
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PLUMBING	LATIMER SOMMERS
MECHANICAL	LATIMER SOMMERS
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SHEET TITLE

CFMF DETAILS

SHEET NUMBER

S3.60