ARCH E1 30" x 42"

GENERAL NOTES - STRUCTURAL:

1. General Information:

   A. The contractor shall verify dimensions and conditions before construction and notify the engineer of record of any conflicts, 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.
   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 Structure (ASCE 7-16)
      3. Structural Welding Code (AWS D1.1-15)
      4. Building Code Requirements for Structural Concrete (ACI 318-14). Building Code Requirements for Masonry Structures (ACI 530-16 / TMS 402-16)
      5. National Design Specification (NDS) for Wood Construction with 2018 Supplements (ANSI/AWC NDS-2018)
   D. These drawings are for this specific project ("Trilogy") and no other use is authorized.

2. Structural Load Design Criteria:

   A. Dead Load:
      Deck Floors = 55 psf
      Apartment Floors = 35 psf
      Roofs = 20 psf
      Stairs = 40 psf
   B. Live Load:
      Public Rooms = 100 psf
      Stairs and Corridors = 100 psf
      Apartment Floors (Private Rooms) = 40 psf
      Storage Areas = 100 psf
      Deck (Private) = 60 psf
   C. Roof Live = 20 psf; Roof Collateral Dead = 5 psf
   D. Snow: Pg = 20psf, Pf =14psf, Pm = 20 psf, Is = 1.0, Ce = 1.0, Ct = 1.0, Drift per ASCE/SEI 7
   E. Lateral Loads:
      1. Wind: V = 115 mph, Exposure C
         Occupancy [Risk] Category II, 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. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable
      2. Seismic: Ss = 0.111, S1 = 0.062
         Occupancy [Risk] Category II, Ie=1.0,
         Site Classification C; Sds = 0.089; Sd1 = 0.07
         Seismic Design Category B
         Basic Seismic Force-resisting System:
         Light-Framed Walls with Shear Panels of All other Materials
         Equivalent Lateral Force Procedure
         R = 2; V = 0.046 W; Omega = 2.5; Cd= 2
   F. 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 shall develop the 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 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
   B. All concrete for interior flatwork shall develop the 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 mix design shrinkage in less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only).
   C. 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.
   D. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at the manufacturer's dosage rates for improved workability.
   E. 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 the terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
   F. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
   G. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete (not otherwise shown) with same reinforcing steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318 (edition specified in Section 1, "General Information", above).
   H. Control joints in conventionally reinforced dirt formed slab are 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.
   I. Contractor shall verify that all concrete inserts, reinforcing and embedded items (embeds) are correctly located and rigidly secured prior to concrete placement.
   J. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide nominal 2x4 horizontal formed keys at construction joints for shear transfer.
   K. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel:

   A. All reinforcing steel shall conform to the requirements of either 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: (U.N.O. on concrete drawings)
      Concrete placed against earth 3"
      Formed concrete against earth 2"
      Slabs 1"
      Beams or Columns 1-1/2"
      Other 2"
      All coverage shall be, as a minimum, at least the thickness of the largest diameter of the covered reinforcing bars.
   C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 30" minimum unless noted otherwise).
   D. At corners of all walls, beams, and grade beams, supply corner bars (minimum 2'-6" 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. Reinforcing bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-6" 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 80 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. 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.
   H. 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 1/4" per foot for drainage unless noted otherwise.

5. Post Tension:

   A. Post tensioning cables shall be unbonded 0.5" diameter, 270 ksi tensile strength, with a minimum ultimate load capacity of 41.3 kips per cable, manufactured in accordance with ASTM A416 and conforming to the recommendations of the Post-Tensioning Institute. Effective prestress force calculations shall be provided by the post-tensioning supplier prepared and sealed by a professional civil/structural engineer licensed in the State of Missouri.
   B. Post-tensioning cables shall be installed as follows:
      1. Under direct supervision of supplier's certified representative.
      2. All drapes to be smooth curves between elevations posted (within 1/4" +/-).
      3. Pull all cables to 80% of ultimate strength.
      4. Set all cables off at 70% of ultimate strength.
      5. Use calibrated hydraulic jacks; calibrate before first pull and periodically (6 week intervals) thereafter.
      6. Measure and log elongation of each cable during stressing and report in writing to the structural engineer of record. Do not cut off stressed cable ends until structural engineer of record has reviewed and accepted the elongations.
      7. All cables to be inspected / observed by the special inspector before placing concrete.
      8. Do not stress cables until concrete has attained a minimum of 75% of its specified design compressive strength. Slab on grade only: to reduce or eliminate possible shrinkage cracks each tendon should be stressed to 11 kips, 16 hours after concrete placement or at approximately 1000 psi concrete strength. Long and narrow slabs may be stressed in the long direction only. Final stressing shall be performed when concrete in foundation beams and slabs has attained a minimum compressive strength of 2000psi.

5. Post Tension (Continued):

      9. Provide certified mill reports and other test data as specified.
      10. Provide supports and accessories as required to ensure proper cable positioning before, during and after concrete placement.
      11. Continually monitor cable profiles during concrete placement to avoid displacement of cables.
      12. Damaged sheathing may be repaired by taping. No exposed cable is permitted.
      13. Cables shall be placed according to the layout shown on shop drawings. Minor deviation of horizontal spacing (+/- 1/2") is allowed to avoid openings, piping, sleeves, and inserts which have critical locations.
      14. Horizontal and vertical transitions in cable alignment shall be as shown in details for a minimum radius of curvature.
      15. Cables longer than 150 ft shall be stressed from both ends, where possible.
      16. After acceptance of stressed cable elongations, cut off excess cable and grout anchor pockets with sand/cement grout.

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 and guidelines.
   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 and guidelines.
   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 and guidelines.
   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 and guidelines.
   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 and guidelines with appropriate screen tubes used for adhesives.

7. Foundations:

   A. The soil investigation was prepared by Cook, Flatt & Strobel Engineers, P.A., and the project number is CFS Project No. 20-5674 and the telephone number is 913-627-9040.
   B. Refer to concrete structural drawings for more information.

8. Timber and Wood Framing:

   A. Quality and construction of wood framing members and their fasteners for load supporting purposes not otherwise indicated on the drawings shall be in accordance with the 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 1,600,000 psi unless noted otherwise. All joist, truss members, and headers to be No. grade 2 (min.) unless noted otherwise. All lumber for exterior decks and balconies shall be treated Southern Yellow Pine No. 2 grade.
   C. Blocking of stud bearing walls and shear walls shall be solid, matching stud material.
   D. Joist blocking and bridging shall be solid wood or cross bridging of either wood or metal straps. Spacing 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 2304.10.1 of the International Building Code. Floor sheathing shall be APA rated tongue and groove Sturd-I-Floor, exposure 1, glued and nailed with 8d ring shank nails or # 10 screws at 12" on center to all supports. Sheathing of shear walls or roof diaphragms shall be edge nailed with 8d common nails at 6" on center and nailed to intermediate framing and/or blocking members with 8d common nails at 12" on center unless otherwise noted on the drawings. All floor sheathing shall be installed with 1/8 inch gaps between panel edges and end joints.
   F. Sill plates shall be bolted to concrete walls or steel beams with 1/2" diameter bolts at 32" on center. Sill plates in direct contact with concrete or masonry shall be treated lumber.
   G. Joist hangers shall be equal to Simpson Strong Tie "LUS" for wood application and "LB" for steel weld-on application.
   H. Service condition - dry with moisture content at or below 19% in service.
   I. Laminated veneer lumber (LVL) shall have an allowable flexural stress (Fb) of 2,600 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi.
   J. Parallel Strand Lumber (PSL) shall have an allowable flexural stress (Fb) of 2,900 psi (reduced by size factor) and an elastic modulus (E) of 2,000,000 psi.
   K. Pre-engineered wood trusses shall be designed in accordance with the Truss Plate Institute's national design standard for metal-plate connected wood truss construction (ANSI/TPI-1 latest edition). Trusses shall be designed and manufactured by an authorized member of the Wood Truss Council of America (WTCA). Truss design shall conform to specified codes, allowable stress increases, deflection limitations and other applicable criteria of the governing code.
   L. Shop drawings showing complete erection and fabrication details and calculations (including connections) shall be submitted to the project architect/engineer for review prior to fabrication and/or erection. Such drawings shall bear the seal of a professional engineer, registered in the state of the project location. Shop drawings shall also be submitted to the local government controlling agency when requested by that agency.
   M. All trusses shall be securely braced both during erection and permanently, as indicated on the approved truss design drawings and in accordance with TPI's commentary and recommendations for handling, installing and bracing metal-plate connected wood trusses (HIB-91, booklet) and the latest edition of ANSI/TPI-1.
   N. The truss manufacturer shall supply all hardware and fasteners for joining truss members together and fastening truss members to their supports. Metal connector plates shall be manufactured by a member of the Wood Truss Council of America (WTCA) and shall be 20 gauge minimum. Connector plates shall meet or exceed ASTM A653, grade 33, with ASTM A924 galvanized coating designation G60.
   O. Shipment, handling, and erection of trusses shall be by experienced, qualified persons and shall be performed in a manner so as not to endanger life or property. Apparent truss damage shall be reported to the truss manufacturer for evaluation prior to erection. Cutting or alteration of trusses is not permitted.
   P. Contractor shall coordinate truss layout for openings and penetrations required by other trades including for plumbing, HVAC, electrical, roof access hatches, chases, etc.
   Q. Pre-engineered floor truss design load and deflection criteria are as follows:
      Top Chord Dead Load = 25psf
      Top Chord Live Load = Per General Note 2B
      Bottom Chord Dead Load = 10psf
      Allowable Total Load Deflection = L/360
      Allowable Live Load Deflection = L/480; ½" maximum
   R. Pre-engineered roof truss design load and deflection criteria are as follows:
      Top Chord Dead Load = 15psf
      Top Chord Live Load = 20psf
      Bottom Chord Dead Load = 10psf
      Allowable Total Load Deflection = L/300
      Allowable Live Load Deflection = L/360
      Roof trusses shall be designed for wind uplift loads indicated in Building Components & Cladding Wind Loads Diagram.

9. Shop Drawing Review:

   A. Krudwig Structural Engineers, 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 Krudwig Structural Engineers, Inc.
   B. Prior to submittal of a shop drawing or any related material to Krudwig Structural Engineers, 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.
   C. Krudwig Structural Engineers, Inc. shall assume that no submission comprises a variation unless the GC advises Krudwig Structural Engineers, Inc. with written documentation.
   D. Shop drawings and related material (if any) required are indicated below. Should Krudwig Structural Engineers, Inc. require more than ten (10) working days to perform the review, Krudwig Structural Engineers, 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. Construction and control joint plans and/or elevations.
      4. Structural steel shop drawings including erection drawings and piece details. Include connection submittals and miscellaneous framing.
      5. Miscellaneous anchors shown on the structural drawings.
      6. Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings need not be submitted.
      7. Post tensioned tendon layout, details, accessories, and elongation calculations.
   E. Krudwig Structural Engineers, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Krudwig Structural Engineers, Inc. shall return without comment unrequired material or submissions without GC approval stamp.

10. Statement of Structural Special Inspections:

   A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code (edition specified in Section 1, "General Information", above). 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 of record.
   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 of record.
   D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.
   E. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
      1. Shop Fabrication – pre-engineered wood trusses per Section 1704.2.5 or 1705.5.2 unless TPI certified shop
      2. Concrete Construction per Section 1705.3 and Table 1705.3
         a. Reinforcing Steel Placement
         b. Reinforcing Steel Welding
         c. Cast in Place Anchors
         d. Post Installed Anchors
         e. Design Mix Verification
         f. Concrete Sampling and Testing
         g. Concrete Placement
         h. Concrete Curing
         i. Prestressed Concrete Stressing and Grouting
         j. Verification of In-situ Concrete Strength Prior to Stressing Post-Tensioned Concrete
      3. Verification of Soils per Table 1705.6
      4. Wood Lateral System (periodic)
         a. Wood shearwalls (include sheathing, rim board and bottom plate attachments)
         b. Portal frames
         c. Shear wall and portal frame holdowns
         d. Shear wall tension rod system
      5. Wood Gravity Framing and Placement (adjust frequency of random sampling where indicated as required)
         a. Heavy timber/SCL/glulam beams and supports (periodic)
         b. Headers and jambs (random sampling)
         c. Bearing walls (random sampling)
         d. Connector/hardware installation (random sampling)
         e. Floor and roof trusses (random sampling)

11. Structural Observations:

   A. The general contractor shall notify the engineer of record and allow for safe access to the appropriate items requring structural observations.
   B. The engineer of record shall be notified such that the following items can be observed:
      1. Wood Framed Floors
         a. Floor/Roof is erected, prior to MEP system routing
         b. MEP routing is completed and all hardward installed - prior to insulating or sheathing
   C. At the discresion of the engineer of record, a site observation report will be issued to the general contractor and architect of record.
   D. The structural observations are performed at the discrestion of the engineer of record and are not required per the IBC for this project.

12. Copyright and Disclaimer:

   A. All drawings in the structural set (S-series drawings) are the copyrighted work of Krudwig Structural Engineers, Inc. These drawings may not be photographed, traced, or copied in any manner without the written permission of Krudwig Structural Engineers, 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.
   B. I, John A. Krudwig, P.E., registered engineer and a representative of Krudwig Structural Engineers, 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.

13. Submittals:

   A. Deferred submittals:
      1. The structural design of the following items is deferred to the general contractor. These items shall be designed per the criteria listed on these documents:
         a. Pre-engineered pre-fabricated roof trusses
         b. Steel Connections
   B. Shop drawings:
      1. Contractor shall submit structural shop drawings for the following items:
         a. Concrete mix design and materials
         b. Concrete reinforcing
         c. Structural steel

14. Wood Shrinkage Notes:

Krudwig Structural Engineers, Inc. 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 values provided below are estimated 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) = 9% (1)

Reference wall sections on this sheet for estimated cumulative 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 overly rigid (fixed) 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 expansion.
      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.

TYPICAL SYMBOLS LEGEND:

Symbol	Description
X#	BEAM OR HEADER PER SCHEDULE ON SHEET S0.03
uX#	UPSET BEAM OR HEADER PER SCHEDULE ON SHEET S0.03
X	PLAN NOTES, FLOOR & ROOF FRAMING TYPE PER SCHEDULE ON SHEET S0.03
X	BEARING WALL TYPE PER SCHEDULE ON SHEET S0.04
X	SHEARWALL HOLDDOWN TYPE PER SCHEDULE ON SHEET S0.05
SW#	SHEARWALL TYPE PER SCHEDULE ON SHEET S0.05
XX-#.#	FOOTING TYPE PER SCHEDULE ON SHEET S0.03
--	INDICATES ROOF SNOW DRIFT LOADING CONDITION PER SHEET S0.02
TYPE / INFO	SPAN DIRECTION FOR DECK / SLAB. REFER TO PLAN OR DECK SCHEDULE FOR DECK / SLAB TYPE
T/SLAB 100'-0"	SLAB-ON-GRADE ELEVATION. REFER TO PLAN OR DECK SCHEDULE FOR TYPE / DESCRIPTION
	SCHEMATIC POST TENSIONED TENDONS
MATCH LINE	BUILDING SEGMENT MATCH LINE

TYPICAL FOUNDATION & FRAMING PLAN ELEMENTS LEGEND:

- 2x WOOD STUD BEARING WALLS (TYPE PER PLAN & SCHED.)
- 2x WOOD STUD BEARING WALL ABOVE (TYPE PER PLAN & SCHED.)
- SHEARWALL (BEARING, TYPE PER PLAN & SCHED.)
- SHEARWALL (NON-LOAD BEARING, TYPE PER PLAN & SCHED.)
- 2ND (1ST) 1ST (0 BSMT.) SHEARWALL UNDERLAY BELOW (SHOWN FOR REFERENCE, RE: SHEARWALL PLANS. TYPE PER PLAN & SCHED.)
- HEADER / BEAM (WOOD, TYPE PER PLAN & SCHED.)
- HEADER / BEAM (STEEL, TYPE PER PLAN & SCHED.)
- SPECIAL LOAD BEARING WALL (WHERE INDICATED (AS REQ'D) ON SHEARWALL / HOLDOWN PLANS) #
- COLUMN (WOOD OR STEEL, TYPE PER PLAN & SCHED.)
- CONCRETE FOOTING (BELOW BRG. WALL, GRADE BEAM, STRIP FOOTING OR THICKENED SLAB PER PLAN & SCHED.)
- CONCRETE SPREAD FOOTING (BELOW COLUMN OR JAMB POINT LOAD, TYPE PER PLAN & SCHED.)
- PT DELAY / CLOSURE STRIP. COORD. W/ ADJACENT THICKENED SLAB FTG's & REINF. WHERE OCCURS PER PLAN

ROOF ITEMS:

- DARK GREY DIAGONAL LINE HATCH = STANDARD ROOF POP-UP (FRAMED W/ PRE-ENGINEERED ROOF TRUSSES)
- LIGHT GREY DIAGONAL LINE HATCH = ALTERNATE (ALT.) RAISED PLATE / CEILING @ ROOF POP-UP
  (SMALL CROSS HATCH INDICATES RAISED EXTERIOR SOFFIT @ COVERED BALCONIES)
- HEAVY LINE = ROOF POP-UP EDGE / BOUNDARY
- WOOD FILL W/ LIGHT GREY HIDDEN LINE = ROOF POP-UP OVERHANG EXTENTS (FRAMED W/ 2x OUTRIGGERS OR ROOF TRUSS TOP CHORD EXTENSIONS TYP., RE: SECTION DETAILS)
- LIGHT GREY CROSS HATCH = TALL ROOF POP-UP (FRAMED W/ PRE-ENGINEERED ROOF TRUSSES)
- LIGHT GREY CROSS HATCH = RAISED PLATE / CEILING @ TALL ROOF POP-UP
  (SMALL CROSS HATCH INDICATES RAISED EXTERIOR SOFFIT @ COVERED BALCONIES)
- HEAVY LINE = ROOF POP-UP EDGE / BOUNDARY
- WOOD FILL W/ LIGHT GREY HIDDEN LINE = ROOF POP-UP OVERHANG EXTENTS (FRAMED W/ 2x OUTRIGGERS OR ROOF TRUSS TOP CHORD EXTENSIONS TYP., RE: SECTION DETAILS)

(1)

ABBREVIATIONS:

@ - AT
BM. - BEAM
BOT. - BOTTOM
B.O. - BOTTOM OF
C.I.P. - CAST-IN-PLACE
℄ - CENTER LINE
C.C. - CENTER TO CENTER
CLR. - CLEAR
CONT. - CONTINUOUS
CJ - CONTROL JOINT
CVR. - COVER
CV-BRACE - CHEVRON STYLE BRACE
Ø / DIA. - DIAMETER
E.W. --OR-- EA. WAY - EACH WAY
FTG. - FOOTING
FDN. - FOUNDATION
GRAP - GEOGRID REINFORCED AGGREGATE PAD
G.T. - GIRDER TRUSS
GRBM. - GRADE BEAM
HT. - HEIGHT
HK. - HOOK
HORIZ. - HORIZONTAL
Lg. - LONG (OR LENGTH)
MIN. - MINIMUM
N.T.S. - NOT TO SCALE
NW - NORMAL WEIGHT
O.C. - ON CENTER
OH. - OVERHANG
SIM. - SIMILAR
S.O.G. - SLAB-ON-GRADE
T.O. - TOP OF
T.O.C. - TOP OF CONCRETE
T.O.F. - TOP OF FOOTING
T.O.W. - TOP OF WALL
T&B - TOP AND BOTTOM
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE
VERT. - VERTICAL
W/ - WITH

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WOOD SHRINKAGE TABLES & DIAGRAMS:

EST. BLDG. COMPONENT MOVEMENT TABLE - 4-STORY

FLOOR	ACCUMULATIVE WOOD SHRINKAGE	HEIGHT OF BRICK	ACCUMULATIVE BRICK EXPANSION
4TH FLR. WALLS	0.870"	45'-0 1/4"	0.486"
3RD FLR. WALLS	0.747"	33'-0"	0.356"
2ND FLR. WALLS	0.509"	22'-4 1/4"	0.241"
1ST FLR. WALLS	0.271"	11'-8 1/2"	0.126"
N/A	--	--	--

EST. BLDG. COMPONENT MOVEMENT TABLE - 5-STORY

FLOOR	ACCUMULATIVE WOOD SHRINKAGE	HEIGHT OF BRICK	ACCUMULATIVE BRICK EXPANSION
4TH FLR. WALLS	1.108"	55'-8"	0.602"
3RD FLR. WALLS	0.985"	43'-7 3/4"	0.472"
2ND FLR. WALLS	0.747"	33'-0"	0.357"
1ST FLR. WALLS	0.509"	22'-4 1/4"	0.242"
BASEMENT WALLS	0.271"	11'-7 3/4"	0.126"

SS3 (4 STORY CASE)

Holdown/Strap System Shrinkage Summary

Location	Member	Depth	Shrinkage Coefficient	Moisture Change	Member Shrinkage	Incremental Shrinkage
4th Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	
4th Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.181 in.
3rd Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	
3rd Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	
3rd Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.181 in.
2nd Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	
2nd Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	
2nd Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.181 in.
1st Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	
1st Story Sill Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.033 in.

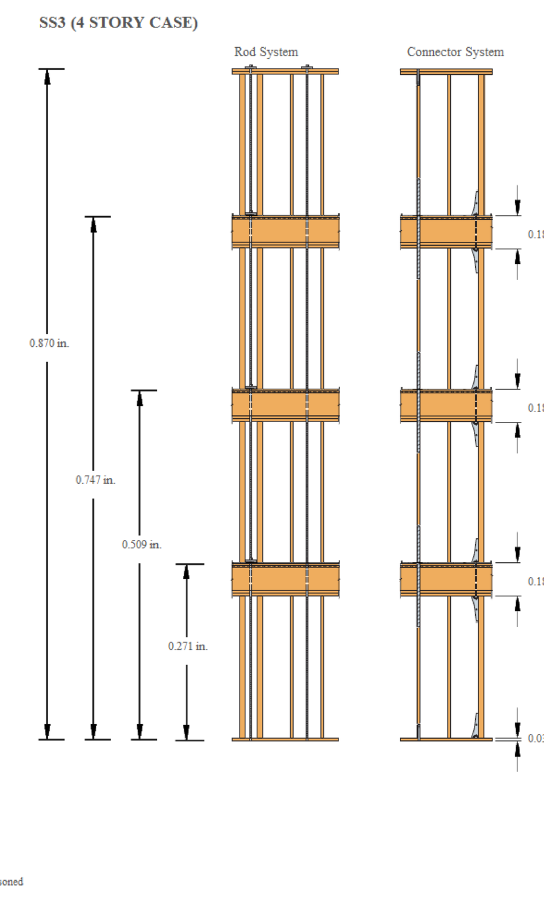
Continuous Rod System Shrinkage Summary

Location	Member	Depth	Shrinkage Coefficient	Moisture Change	Member Shrinkage	Cumulative Shrinkage
4th Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	0.870 in.
4th Story Stud	Stud	104.5 in.	0.00005	11%	0.057 in.	0.804 in.
4th Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.747 in.
4th Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.714 in.
3rd Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	0.632 in.
3rd Story Stud	Stud	104.5 in.	0.00005	11%	0.057 in.	0.566 in.
3rd Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.509 in.
3rd Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.476 in.
2nd Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	0.394 in.
2nd Story Stud	Stud	104.5 in.	0.00005	11%	0.057 in.	0.328 in.
2nd Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.271 in.
2nd Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.238 in.
1st Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	0.156 in.
1st Story Stud	Stud	104.5 in.	0.00005	11%	0.057 in.	0.090 in.
1st Story Sill Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.033 in.

Calculation Notes:

1. Calculation assumes that the sub-floor material is dimensionally stable and its shrinkage is negligible.
2. Calculation assumes that EWP members are dimensionally stable and its shrinkage is negligible. EWP members include I joists, LVL, PSL.
3. Calculation assumes that floor trusses have a single top and bottom chord member whose shrinkage is equivalent to (2) SP 2x plates.
4. Calculator assumes that solid sawn members are between 2" – 4" nominal thickness. Heavy timbers that are 5" and thicker may be seasoned differently than smaller members and are therefore not considered in combination with other members in this calculator.

SS3 (4 STORY CASE)



SS3 (5 STORY CASE)

Holdown/Strap System Shrinkage Summary

Location	Member	Depth	Shrinkage Coefficient	Moisture Change	Member Shrinkage	Incremental Shrinkage
5th Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	
5th Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.181 in.
4th Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	
4th Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	
4th Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.181 in.
3rd Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	
3rd Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	
3rd Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.181 in.
2nd Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	
2nd Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	
2nd Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.181 in.
1st Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	
1st Story Sill Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.033 in.

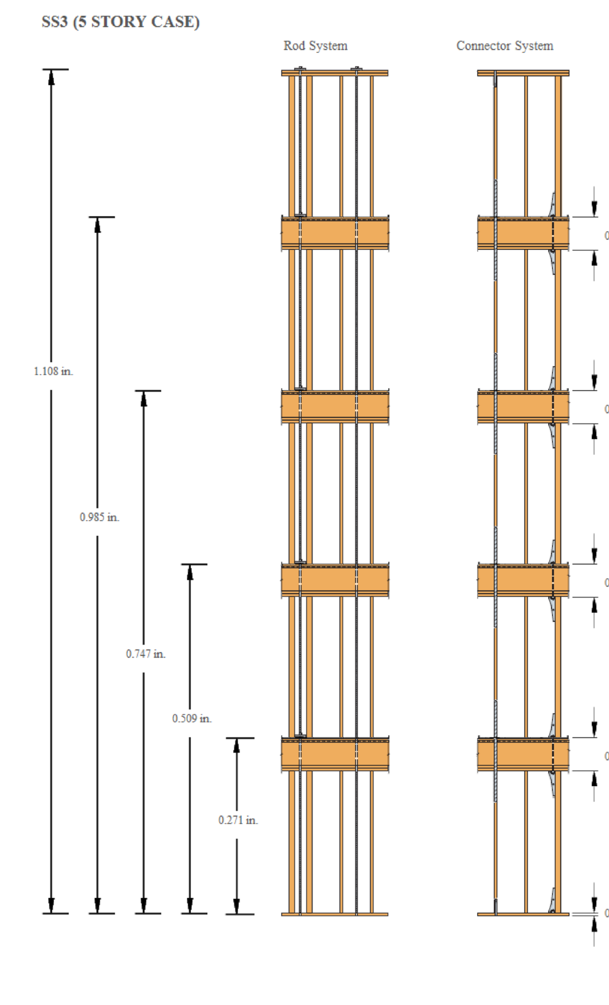
Continuous Rod System Shrinkage Summary

Location	Member	Depth	Shrinkage Coefficient	Moisture Change	Member Shrinkage	Cumulative Shrinkage
5th Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	1.108 in.
5th Story Stud	Stud	104.5 in.	0.00005	11%	0.057 in.	1.042 in.
5th Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.985 in.
5th Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.952 in.
4th Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	0.870 in.
4th Story Stud	Stud	104.5 in.	0.00005	11%	0.057 in.	0.804 in.
4th Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.747 in.
4th Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.714 in.
3rd Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	0.632 in.
3rd Story Stud	Stud	104.5 in.	0.00005	11%	0.057 in.	0.566 in.
3rd Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.509 in.
3rd Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.476 in.
2nd Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	0.394 in.
2nd Story Stud	Stud	104.5 in.	0.00005	11%	0.057 in.	0.328 in.
2nd Story Sole Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.271 in.
2nd Floor System	Floor Truss	3 in.	0.0025	11%	0.082 in.	0.238 in.
1st Story Top Plate	2-2x DF	3 in.	0.002	11%	0.066 in.	0.156 in.
1st Story Stud	Stud	104.5 in.	0.00005	11%	0.057 in.	0.090 in.
1st Story Sill Plate	2x DF	1.5 in.	0.002	11%	0.033 in.	0.033 in.

Calculation Notes:

1. Calculation assumes that the sub-floor material is dimensionally stable and its shrinkage is negligible.
2. Calculation assumes that EWP members are dimensionally stable and its shrinkage is negligible. EWP members include I joists, PSL.
3. Calculation assumes that floor trusses have a single top and bottom chord member whose shrinkage is equivalent to (2) SP 2x plates.
4. Calculator assumes that solid sawn members are between 2" – 4" nominal thickness. Heavy timbers that are 5" and thicker may be seasoned differently than smaller members and are therefore not considered in combination with other members in this calculator.

SS3 (5 STORY CASE)



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NUMBER PE-2005000022
PROFESSIONAL ENGINEER
04.11.23

KRUDWIG STRUCTURAL ENGINEERS INC
11200 Corporate Ave., Suite 110 Lenexa, Kansas 66219

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GENERAL NOTES

SHEET NO.
S0.01

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ARCH E1.30" x 42"

TABLE 2304.10.1
FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Roof		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3-8d common ($2^1/_2$" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, $^7/_{16}$" crown	Each end, toenail
Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-8d common ($2^1/_2$" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples	Each end, toenail
	2-10d common ($3^1/_2$" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples	End nail
Flat blocking to truss and web filler	16d common ($3^1/_2$" × 0.162") @ 6" o.c. 3" × 0.131" nails @ 6" o.c. 3" × 14 gage staples @ 6" o.c	Face nail
2. Ceiling joists to top plate	3-8d common ($2^1/_2$" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, $^7/_{16}$" crown	Each joist, toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1)	3-16d common ($3^1/_2$" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, $^7/_{16}$" crown	Face nail
4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1)	Per Table 2308.7.3.1	Face nail
5. Collar tie to rafter	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, $^7/_{16}$" crown	Face nail
6. Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5)	3-10 common (3" × 0.148"); or 3-16d box ($3^1/_2$" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, $^7/_{16}$" crown	Toenail[c]
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	2-16d common ($3^1/_2$" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, $^7/_{16}$" crown; or	End nail
	3-10d common (3" × 0.148"); or 4-16d box ($3^1/_2$" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, $^7/_{16}$" crown	Toenail
Wall		
8. Stud to stud (not at braced wall panels)	16d common ($3^1/_2$" × 0.162");	24" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, $^7/_{16}$" crown	16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common ($3^1/_2$" × 0.162"); or	16" o.c. face nail
	16d box ($3^1/_2$" × 0.135"); or	12" o.c. face nail
	3" × 0.131" nails; or 3-3" 14 gage staples, $^7/_{16}$" crown	12" o.c. face nail
10. Built-up header (2" to 2" header)	16d common ($3^1/_2$" × 0.162"); or	16" o.c. each edge, face nail
	16d box ($3^1/_2$" × 0.135")	12" o.c. each edge, face nail
11. Continuous header to stud	4-8d common ($2^1/_2$" × 0.131"); or 4-10d box (3" × 0.128")	Toenail
12. Top plate to top plate	16d common ($3^1/_2$" × 0.162"); or	16" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, $^7/_{16}$" crown	12" o.c. face nail
13. Top plate to top plate, at end joints	8-16d common ($3^1/_2$" × 0.162"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, $^7/_{16}$" crown	Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common ($3^1/_2$" × 0.162"); or	16" o.c. face nail
	16d box ($3^1/_2$" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, $^7/_{16}$" crown	12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2-16d common ($3^1/_2$" × 0.162"); or 3-16d box ($3^1/_2$" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, $^7/_{16}$" crown	16" o.c. face nail
16. Stud to top or bottom plate	4-8d common ($2^1/_2$" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, $^7/_{16}$" crown; or	Toenail
	2-16d common ($3^1/_2$" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, $^7/_{16}$" crown	End nail
17. Top plates, laps at corners and intersections	2-16d common ($3^1/_2$" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, $^7/_{16}$" crown	Face nail
18. 1" brace to each stud and plate	2-8d common ($2^1/_2$" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, $^7/_{16}$" crown	Face nail
19. 1" × 6" sheathing to each bearing	2-8d common ($2^1/_2$" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
20. 1" × 8" and wider sheathing to each bearing	3-8d common ($2^1/_2$" × 0.131"); or 3-10d box (3" × 0.128")	Face nail
Floor		
21. Joist to sill, top plate, or girder	3-8d common ($2^1/_2$" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, $^7/_{16}$" crown	Toenail
22. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common ($2^1/_2$" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, $^7/_{16}$" crown	6" o.c., toenail
23. 1" × 6" subfloor or less to each joist	2-8d common ($2^1/_2$" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
24. 2" subfloor to joist or girder	2-16d common ($3^1/_2$" × 0.162")	Face nail
25. 2" planks (plank & beam – floor & roof)	2-16d common ($3^1/_2$" × 0.162")	Each bearing, face nail
26. Built-up girders and beams, 2" lumber layers	20d common (4" × 0.192")	32" o.c., face nail at top and bottom staggered on opposite sides
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, $^7/_{16}$" crown	24" o.c. face nail at top and bottom staggered on opposite sides
	And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, $^7/_{16}$" crown	Ends and at each splice, face nail
27. Ledger strip supporting joists or rafters	3-16d common ($3^1/_2$" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, $^7/_{16}$" crown	Each joist or rafter, face nail
28. Joist to band joist or rim joist	3-16d common ($3^1/_2$" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, $^7/_{16}$" crown	End nail
29. Bridging or blocking to joist, rafter or truss	2-8d common ($2^1/_2$" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, $^7/_{16}$" crown	Each end, toenail

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION	
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing[a]			
		Edges (inches)	Intermediate supports (inches)
30. $^3/_8$" – $^1/_2$"	6d common or deformed (2" × 0.113") (subfloor and wall)	6	12
	8d common or deformed ($2^1/_2$" × 0.131") (roof) or RSRS-01 ($2^3/_8$" × 0.113") nail (roof)[d]	6	12
	$2^3/_8$" × 0.113" nail (subfloor and wall)	6	12
	$1^3/_4$" 16 gage staple, $^7/_{16}$" crown (subfloor and wall)	4	8
	$2^3/_8$" × 0.113" nail (roof)	4	8
	$1^3/_4$" 16 gage staple, $^7/_{16}$" crown (roof)	3	6
31. $^{19}/_{32}$" – $^3/_4$"	8d common or deformed ($2^1/_2$" × 0.131"); or 6d deformed (2" × 0.113") (subfloor and wall)	6	12
	8d common or deformed ($2^1/_2$" × 0.131") (roof) or RSRS-01 ($2^3/_8$" × 0.113") nail (roof)[d]	6	12
	$2^3/_8$" × 0.113" nail; or 2" 16 gage staple, $^7/_{16}$" crown	4	8
32. $^7/_8$" – $1^1/_8$"	10d common (3" × 0.148"); or 8d deformed ($2^1/_2$" × 0.131")	6	12
Other exterior wall sheathing			
33. $^1/_2$" fiberboard sheathing[b]	$1^1/_2$" galvanized roofing nail ($^7/_{16}$" head diameter); or $1^1/_2$" 16 gage staple with $^7/_{16}$" or 1" crown	3	6
34. $^{25}/_{32}$" fiberboard sheathing[b]	$1^3/_4$" galvanized roofing nail ($^7/_{16}$" diameter head); or $1^1/_2$" 16 gage staple with $^7/_{16}$" or 1" crown	3	6
Wood structural panels, combination subfloor underlayment to framing			
35. $^3/_4$" and less	8d common ($2^1/_2$" × 0.131"); or 6d deformed (2" × 0.113")	6	12
36. $^7/_8$" – 1"	8d common ($2^1/_2$" × 0.131"); or 8d deformed ($2^1/_2$" × 0.131")	6	12
37. $1^1/_8$" – $1^1/_4$"	10d common (3" × 0.148"); or 8d deformed ($2^1/_2$" × 0.131")	6	12
Panel siding to framing			
38. $^1/_2$" or less	6d corrosion-resistant siding ($1^7/_8$" × 0.106"); or 6d corrosion-resistant casing (2" × 0.099")	6	12
39. $^5/_8$"	8d corrosion-resistant siding ($2^1/_8$" × 0.128"); or 8d corrosion-resistant casing ($2^1/_2$" × 0.113")	6	12

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION	
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing[a]			
		Edges (inches)	Intermediate supports (inches)
Interior paneling			
40. $^1/_4$"	4d casing ($1^1/_2$" × 0.080"); or 4d finish ($1^1/_2$" × 0.072")	6	12
41. $^3/_8$"	6d casing (2" × 0.099"); or 6d finish (Panel supports at 24 inches)	6	12

For SI: 1 inch = 25.4 mm.

a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.

b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).

c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.

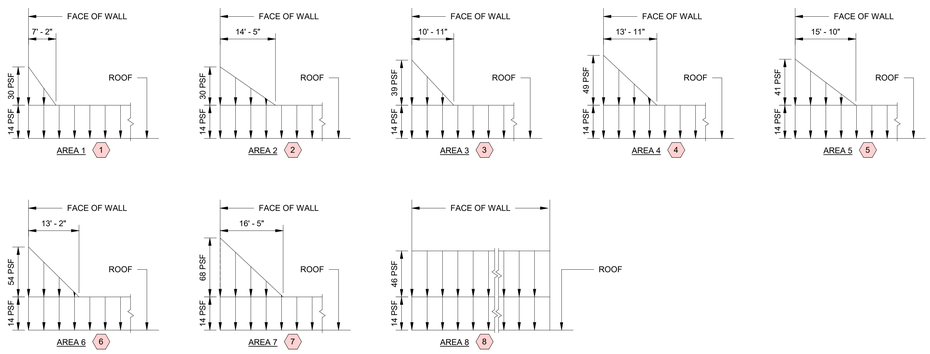
d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

NOTES:
1. ALL NAILS SHALL BE AS INDICATED U.N.O. OR SPECIFIED ON STRUCTURAL DRAWINGS OR ALTERNATE PROVIDED BY ENGINEER IN WRITING.
2. NAILING DESIGNATION:

   (2) 16d NAILS
   - 16d: DIAMETER & LENGTH PER NAIL TYPE DESIGNATION (BELOW)
   - (2): QUANTITY

3. ALL NAILS NOTED AS 6d, 8d, 10d, 16d ETC. SHALL BE COMMON NAILS, INFO AS FOLLOWS:

NAME:	SHANK Ø:	LENGTH:
6d	0.113"	2"
8d	0.131"	2 1/2"
10d	0.148"	3"
16d	0.162"	3 1/2"



1 SNOW DRIFT LOADING DIAGRAMS
1/16" = 1'-0"

NOTES:
1. REFER TO BUILDING SEGMENT ROOF FRAMING PLANS FOR SNOW DRIFT LOADING TYPE LOCATIONS.

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NUMBER PE-2005000226
PROFESSIONAL ENGINEER
04.11.23

KRUDWIG STRUCTURAL ENGINEERS, LLC
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A NEW RESIDENTIAL COMMUNITY AT::
TRILOGY
NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME WIND & SNOW LOAD INFO, NAILING SCHEDULE
SHEET NO. S0.02

4/11/2023 5:24:04 PM

ARCH E1 30" x 42"

FLOOR & ROOF FRAMING NOTES SCHEDULE

MARK	DESCRIPTION
A	18" DP. PRE-ENGINEERED FLOOR TRUSSES @ 24" O.C. (16" O.C. @ SPANS OVER 20'-0" and 16" O.C. W/ DOUBLE TOP & BOT. CHORD AT SPANS OVER 24'-0" OR AS REQUIRED BY TRUSS DESIGN CRITERIA). DESIGN FOR CONCENTRATED LOADS @ OFFSET WALLS ABOVE (RE. 3/S3.11). FINAL FLOOR TRUSS SPACINGS NOTED ABOVE SHALL BE DETERMINED / CONFIRMED BY PRE-ENGINEERED TRUSS MANUFACTURER.
A1	UPSET 1 3/4" x 18" LVL SISTERED TO 18" DP. PRE-ENGINEERED FLOOR TRUSS. CUT OPENINGS IN SIDE OF LVL AS REQ'D FOR MEP PENETRATIONS; MAINTAIN A MINIMUM DEPTH OF 3 1/2" ABOVE & BELOW OPENINGS DESIGN SISTERED FLOOR TRUSS FOR REACTIONS FROM PERPENDICULAR CORRIDOR TRUSSES @ ATTACH TO LVL PER DETAIL 12/S3.11. PROVIDE BEARING STUDS EA. END AS FOLLOWS: LEVEL 3 WALLS: (2) 2x4 LEVEL 2 WALLS: (3) 2x4 LEVEL 1 WALLS: (4) 2x4 BASEMENT WALLS: (4) 2x4
A2	18" DP. PRE-ENGINEERED FLOOR TRUSSES ALIGNED W/ SHEARWALL W/ TENSION TIES PER 1 OR 1A/S3.11. DESIGN TRUSS FOR COMPRESSION FORCE INDICATED
B1	PRE-ENGINEERED ROOF TRUSSES @ 24" O.C. (REFER TO ARCH. DWG's FOR SCHEMATIC TRUSS PROFILES). PROVIDE HOLDOWN EA. END PER DETAIL 1/S3.21 (U.N.O.) OR TRUSS TO TRUSS CONNECTION PER TRUSS SUPPLIER
B2	2x12's @ 16" O.C. W/ TAPERED 2x's ATOP. SLOPE TO INTERNAL ROOF DRAIN PER ARCH. COORDINATE JOIST SPACING W/ DRAIN LOCATION.
B3	PRE-ENGINEERED ROOF TRUSSES @ 24" O.C. ROTATED PERPENDICULAR TO EXT. WALL (REFER TO ARCH. DWG's FOR SCHEMATIC TRUSS PROFILES). PROVIDE HOLDOWN EA. END PER DETAIL 1/S3.21 (U.N.O.) OR TRUSS TO TRUSS CONNECTION PER TRUSS SUPPLIER
B4	PRE-ENGINEERED ROOF TRUSSES @ 24" O.C. (RE: ARCH. FOR SLOPE) OVER CORRIDOR. PROVIDE HEADER TRUSS EA. SIDE OF ROOF DRAINS W/ TRUSS TO TRUSS CONNECTION BY TRUSS SUPPLIER
B5	2x10 ROOF JOISTS @ 16" O.C. OVER ELEVATOR SHAFT W/ SIMPSON LUS210 TO 2x10 LEDGER EA. END. PROVIDE CEILING FRAMING & RATED CEILING ASSEMBLY PER ARCH. DWG's. RE: 8/S3.20
C1	W8x24 ELEVATOR HOIST BEAM. RE: 8/S3.20 @ BEARING EA. END.
D1	2x12 TREATED SOUTHERN YELLOW PINE NO. 2 GRADE BALCONY JOISTS (TOP OF JOIST = TOP OF TRUSS ELEVATION - 6 3/4") @ 16" O.C. (PROVIDE DOUBLE JOIST ALIGNED W/ INNER EDGE OF PILASTER ABOVE WHERE OCCURS W/ SIMPSON LUS210-2) W/ SIMPSON LUS28 JOIST HANGER TO SUPPORT(S). PROVIDE RIPPED & TAPERED 2x ATOP EACH JOIST TO SLOPE BALCONY DECK TO DRAIN (RE: ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS)
D2	2x8 TREATED SOUTHERN YELLOW PINE NO. 2 GRADE BALCONY JOISTS (TOP OF JOIST = TOP OF TRUSS ELEVATION - 6 3/4") @ 16" O.C. W/ SIMPSON LUS28 JOIST HANGER TO SUPPORT(S). PROVIDE RIPPED & TAPERED 2x ATOP EACH JOIST TO SLOPE BALCONY DECK TO DRAIN (RE: ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS)

FOOTING SCHEDULE

TYPE:	WIDTH:	LENGTH:	DEPTH:	REINFORCING:
SF-2.2	2'-2"	CONT.	14"	REINFORCING PER DETAIL 2A/S3.03
SF-2.8	2'-8"	CONT.	12"	REINFORCING PER DETAIL 5/S3.04
SF-2.10	2'-10"	CONT.	14"	REINFORCING PER DETAIL 2B/S3.03
SF-5.5	5'-6"	CONT.	14"	REINFORCING PER DETAIL 2C/S3.03
SF-7.0	7'-0"	CONT.	16"	REINFORCING PER DETAIL 2D/S3.03
TS-1.4	1'-4" (WIDTH @ BASE)	CONT.	12"	THICKENED SLAB W/ (3) #4 CONT. BOT.
TS-1.5	1'-6" (WIDTH @ BASE)	CONT.	8"	THICKENED SLAB W/ (3) #4 CONT. BOT.
TS-2.0	2'-0" (WIDTH @ BASE)	CONT.	8"	THICKENED SLAB W/ (3) #4 CONT. BOT.
TS-2.5	2'-6" (WIDTH @ BASE)	CONT.	8"	THICKENED SLAB W/ (3) #4 CONT. BOT.
TS-2.8	2'-8" (WIDTH @ BASE, LOW)	CONT.	12"	THICKENED SLAB W/ (4) #4 CONT. BOT.
TS-3.3	3'-3" (WIDTH @ BASE)	CONT.	8"	THICKENED SLAB W/ (3) #4 CONT. BOT.
TS-3.5	3'-6" (WIDTH @ BASE)	CONT.	16"	REINFORCING PER DETAIL 1/S3.03
GB-0.8	8"	CONT.	2'-8"	#4 @ 12" O.C. HORIZ. W/ #4 DOWELS @ 16" O.C. (2'-0" Lg. HK. INTO SLAB)
GB-0.9	8"	CONT.	3'-8"	#4 @ 12" O.C. HORIZ. W/ #4 DOWELS @ 16" O.C. (2'-0" Lg. HK. INTO SLAB)
GB-1.0	1'-0"	CONT.	2'-8"	#3 STIRRUPS @ 24" O.C. W/ (2) #4 CONT. TOP & BOT.
GB-1.1	1'-0"	CONT.	3'-8"	#3 STIRRUPS @ 24" O.C. W/ (2) #4 CONT. TOP & BOT.
GB-1.5	1'-6"	CONT.	2'-8"	#3 STIRRUPS @ 24" O.C. W/ (3) #4 CONT. TOP & BOT.
GB-1.10	1'-10"	CONT.	2'-8"	#3 STIRRUPS @ 24" O.C. W/ (3) #5 CONT. TOP & BOT.
GB-1.11	1'-10"	CONT.	3'-8"	#3 STIRRUPS @ 24" O.C. W/ (3) #5 CONT. TOP & BOT.
GB-2.0	2'-0"	CONT.	2'-8"	#3 STIRRUPS @ 24" O.C. W/ (3) #5 CONT. TOP & BOT.
GB-2.2	2'-2"	CONT.	2'-8"	#3 STIRRUPS @ 24" O.C. W/ (3) #5 CONT. TOP & BOT.
GB-2.4	2'-4"	CONT.	2'-8"	#3 STIRRUPS @ 24" O.C. W/ (3) #5 CONT. TOP & BOT.
GB-2.5	2'-6"	CONT.	2'-8"	#3 STIRRUPS @ 24" O.C. W/ (3) #5 CONT. TOP & BOT.
GB-2.8	2'-8"	CONT.	2'-8"	#3 STIRRUPS @ 24" O.C. W/ (3) #5 CONT. TOP & BOT.
GB-3.0	3'-0"	CONT.	2'-8"	#3 STIRRUPS @ 24" O.C. W/ (4) #5 CONT. TOP & BOT.
GB-3.9	3'-9"	CONT.	2'-8"	#3 STIRRUPS @ 24" O.C. W/ (5) #5 CONT. TOP & BOT.
F-2.5	2'-6"	2'-6"	1'-0" **	(4) #4 @ 8" O.C. EA. WAY BOT.
F-3.0	3'-0"	3'-0"	1'-0" **	(4) #4 @ 8" O.C. EA. WAY BOT.
F-3.5	3'-6"	3'-6"	1'-0" **	(5) #4 @ 8" O.C. EA. WAY BOT.
F-4.0	4'-0"	4'-0"	1'-0" **	(6) #4 @ 8" O.C. EA. WAY BOT.
F-4.5	4'-6"	4'-6"	1'-0" **	(7) #4 @ 8" O.C. EA. WAY BOT.
F-4.6C	4'-6"	6'-0"	1'-0"	(3) #4 TOP & (6) #4 BOT. LEFT / RIGHT; (3) #4 TOP & (6) #4 BOT. MIDDLE (RE: NOTE 6.)
F-4.7C	4'-9"	6'-0"	1'-0"	(3) #4 TOP & (6) #4 BOT. LEFT / RIGHT; (3) #4 TOP & (6) #4 BOT. MIDDLE (RE: NOTE 6.)
F-5.0	5'-0"	5'-0"	1'-0" **	(7) #4 @ 8" O.C. EA. WAY BOT.
F-5.5	5'-6"	5'-6"	1'-0" **	(8) #4 @ 8" O.C. EA. WAY BOT.
F-6.0	6'-0"	6'-0"	1'-0" **	(9) #4 @ 8" O.C. EA. WAY BOT.
F-6.5	6'-6"	6'-6"	1'-4" **	(10) #5 @ 8" O.C. EA. WAY BOT.
F-7.0	7'-0"	7'-0"	1'-4" **	(10) #5 @ 8" O.C. EA. WAY BOT.
F-7.5	7'-6"	7'-6"	1'-4" **	(11) #5 @ 8" O.C. EA. WAY BOT.
F-8.0	8'-0"	8'-0"	1'-6" **	(12) #5 @ 8" O.C. EA. WAY BOT.
F-8.5	8'-6"	8'-6"	1'-6" **	(13) #5 @ 8" O.C. EA. WAY BOT.
F-2.5E	2'-6"	2'-6"	2'-8"	(3) #4 @ 8" O.C. EA. WAY BOT.
F-3.0E	3'-0"	3'-0"	2'-8"	(4) #4 @ 8" O.C. EA. WAY BOT.
F-3.5E	3'-6"	3'-6"	2'-8"	(5) #4 @ 8" O.C. EA. WAY BOT.
F-4.0E	4'-0"	4'-0"	2'-8"	(6) #4 @ 8" O.C. EA. WAY BOT.
F-4.5E	4'-6"	4'-6"	2'-8"	(7) #4 @ 8" O.C. EA. WAY BOT.
F-5.0E	5'-0"	5'-0"	2'-8"	(7) #4 @ 8" O.C. EA. WAY BOT.
F-5.5E	5'-6"	5'-6"	2'-8"	(8) #4 @ 8" O.C. EA. WAY BOT.
F-6.5E	6'-6"	6'-6"	2'-8"	(10) #5 @ 8" O.C. EA. WAY BOT.
F-7.0E	7'-0"	7'-0"	2'-8"	(10) #5 @ 8" O.C. EA. WAY BOT.
F-8.5E	8'-6"	8'-6"	2'-8"	(13) #5 @ 8" O.C. EA. WAY BOT.

NOTES:

1. EXTERIOR FOOTINGS OR FOOTING @ GRADE BEAM SHALL MATCH GRADE BEAM DEPTH & BE PLACED W/ GRADE BEAM. PROVIDE SPECIFIED REBAR TOP & BOT. W/ (4) STANDEES TO SUPPORT MATS.
2. CENTER FOOTINGS ON COLUMNS &/OR WALL CENTER LINES PER PLAN U.N.O.
3. REFER TO SECTION 6/S3.01 @ INTERIOR FOOTINGS.
4. ABBREVIATIONS:
   SF = CONTINUOUS STRIP FOOTING.
   TS = CONTINUOUS THICKENED SLAB.
   GB = CONTINUOUS GRADE BEAM.
   F = SPREAD FOOTING (OR ISOLATED FOOTING).
5. FOOTING DEPTHS NOTED W/ " ** " ARE TO BE MIN. 1'-4" Dp. (OR LARGER DEPTH AS NOTED IN SCHED.) @ SEGMENT B / CLUB FOOTINGS (AS / WHERE OCCURS). COORDINATE FINAL FOOTING DEPTHS W/ REQ'D ANCHOR BOLT EMBEDMENTS & ADJUST FOOTING DEPTHS ACCORDINGLY.
6. FOOTINGS THAT CONTAIN A "C" (F-X.XC) INDICATE A "COMBINED" FOOTING TYPE (A FOOTING THAT CARRIES (2) POINT LOADS). PROVIDE 28 1/2" LAP SPLICE @ OVERLAP BTWN. MIDDLE REINF. (BTWN. POINT LOADS) & OUTER REINF. (LEFT & RIGHT OF POINT LOADS). PROVIDE 3" CLR. COVER TOP & BOT., TYP.

FLOOR & ROOF FRAMING JACK & KIND STUDS FOR HEADERS SCHEDULE - FOR 2x6 WALLS

WIDTH / CONDITION	# OF (J) JACK STUDS & # OF (K) KING STUDS					NOTES
	BASEMENT WALLS	1ST FLR. WALLS	2ND FLR. WALLS	3RD FLR. WALLS	4TH FLR. WALLS	
0'-0" TO 3'-6"	1 (J) / 2 (K)	1 (J) / 1 (K)	1 (J) / 1 (K)	1 (J) / 1 (K)	1 (J) / 1 (K)	USE JACK STUDS PER TABLE U.N.O. PER PLAN
3'-7" TO 4'-6"	1 (J) / 3 (K)	1 (J) / 2 (K)	1 (J) / 2 (K)	1 (J) / 1 (K)	1 (J) / 1 (K)	USE JACK STUDS PER TABLE U.N.O. PER PLAN
4'-7" TO 5'-6"	1 (J) / 3 (K)	1 (J) / 2 (K)	1 (J) / 2 (K)	1 (J) / 2 (K)	1 (J) / 2 (K)	USE JACK STUDS PER TABLE U.N.O. PER PLAN
5'-7" TO 6'-6"	2 (J) / 3 (K)	2 (J) / 2 (K)	2 (J) / 2 (K)	2 (J) / 2 (K)	2 (J) / 2 (K)	USE JACK STUDS PER TABLE U.N.O. PER PLAN
6'-7" TO 7'-0"	N/A	2 (J) / 3 (K)	2 (J) / 3 (K)	2 (J) / 3 (K)	2 (J) / 3 (K)	USE JACK STUDS PER TABLE U.N.O. PER PLAN
7'-0" TO 11'-0"	N/A	3 1/2" x 5 1/2" 28F-E1 SP/SP (U) GLULAM (J) / 4 (K)	3 1/2" x 5 1/2" 28F-E1 SP/SP (U) GLULAM (J) / 4 (K)	N/A	N/A	USE JACK STUDS PER TABLE U.N.O. PER PLAN
GARAGE DOOR OPENINGS	2 (J) / 3 (K)	2 (J) / 3 (K)	N/A	N/A	N/A	USE JACK STUDS PER TABLE U.N.O. PER PLAN
CANTILEVERED BALCONY MEMBERS	5 1/2" x 5 1/2" 28F-E1 SP/SP (U) GLULAM (J)	5 1/2" x 5 1/2" 28F-E1 SP/SP (U) GLULAM (J)	3 1/2" x 5 1/2" 28F-E1 SP/SP (U) GLULAM (J)	(3) 2x6 (J)	(3) 2x6 (J)	USE STUD PACKS STUDS PER TABLE U.N.O. PER PLAN

NOTES:

1. EXTERIOR HEADERS @ EA. FLOOR PERMITTED TO USE (2) 2x6 JACK STUDS U.N.O. ON TABLE ABOVE OR PER PLANS.

FLOOR & ROOF FRAMING JACK & KIND STUDS FOR HEADERS SCHEDULE - FOR 2x4 WALLS

WIDTH / CONDITION	# OF (J) JACK STUDS & # OF (K) KING STUDS					NOTES
	BASEMENT WALLS	1ST FLR. WALLS	2ND FLR. WALLS	3RD FLR. WALLS	4TH FLR. WALLS	
0'-0" TO 3'-6"	2 (J) / 2 (K)	2 (J) / 1 (K)	2 (J) / 1 (K)	2 (J) / 1 (K)	2 (J) / 1 (K)	USE JACK STUDS PER TABLE U.N.O. PER PLAN
3'-7" TO 4'-6"	3 (J) / 3 (K)	3 (J) / 2 (K)	3 (J) / 2 (K)	3 (J) / 1 (K)	2 (J) / 1 (K)	USE JACK STUDS PER TABLE U.N.O. PER PLAN
4'-7" TO 5'-6"	3 (J) / 3 (K)	3 (J) / 2 (K)	3 (J) / 2 (K)	3 (J) / 2 (K)	2 (J) / 2 (K)	USE JACK STUDS PER TABLE U.N.O. PER PLAN
5'-7" TO 6'-6"	3 (J) / 3 (K)	3 (J) / 2 (K)	3 (J) / 2 (K)	3 (J) / 2 (K)	2 (J) / 2 (K)	USE JACK STUDS PER TABLE U.N.O. PER PLAN
6'-7" TO 7'-0"	5 (J) / 3 (K)	4 (J) / 3 (K)	4 (J) / 3 (K)	4 (J) / 3 (K)	2 (J) / 3 (K)	USE JACK STUDS PER TABLE U.N.O. PER PLAN
7'-0" TO 11'-0"	3 1/2" x 5 1/2" 28F-E1 SP/SP (U) GLULAM (J) / 4 (K)	3 1/2" x 5 1/2" 28F-E1 SP/SP (U) GLULAM (J) / 4 (K)	3 1/2" x 5 1/2" 28F-E1 SP/SP (U) GLULAM (J) / 4 (K)	N/A	N/A	USE JACK STUDS PER TABLE U.N.O. PER PLAN
GARAGE DOOR OPENINGS	N/A	N/A	N/A	N/A	N/A	USE JACK STUDS PER TABLE U.N.O. PER PLAN

STRUCTURAL DECK & SLAB SCHEDULE

MARK	DESCRIPTION
3/4" FD	3/4" GYPCRETE ATOP 23/32" T&G APA RATED SHEATHING. SHEATHING SHALL BE GLUED & NAILED W/ 8d RING SHANK NAILS OR #10 SCREWS @ 6" O.C. @ EDGES & 12" O.C. @ FIELD
3" TS	3" LIGHT-WEIGHT CONCRETE TOPPING SLAB (RE: ARCH.) REINFORCED W/ 6x6-W3.5xW3.5 WWF, ATOP DRAINAGE MAT (PER ARCH.), ATOP WATERPROOFING MEMBRANE (PER ARCH.), ATOP 15/32" EXTERIOR GRADE PLYWOOD SHEATHING (SLOPE PER ARCH.). PROVIDE 1" TOOLED CONTROL JOINT (TRANSVERSE DIRECTION) @ MIDSPAN OF SINGLE BAY BALCONIES OR THIRD POINTS OF TWO BAY BALCONIES (EA. WAY @ LARGER DECKS), 8'-0" MAX. SPACING. FILL JOINT WITH SEALANT
4" PT SOG	4" POST TENSION CONCRETE SLAB (AIR ENTRAINED @ ANCILLARY BUILDINGS), ATOP 15 MIL VAPOR BARRIER, ATOP 4" GRANULAR LEVELING COURSE, ATOP 8" SUITABLE LVC SUBGRADE MATERIAL PER GEOTECH REPORT
8" PT SOG APRON	8" POST TENSION CONCRETE APRON SLAB (AIR ENTRAINED), ATOP 4" GRANULAR LEVELING COURSE, ATOP 8" SUITABLE LVC SUBGRADE MATERIAL PER GEOTECH REPORT
4" EXT SOG	4" CONCRETE SLAB (AIR ENTRAINED), ATOP 4" GRANULAR LEVELING COURSE, ATOP SUITABLE SUBGRADE MATERIAL PER GEOTECH REPORT. REINFORCE SLAB W/ #4 @ 16" O.C. EA. WAY MID-DEPTH. T/SLAB ELEVATION VARIES W/ SLOPE. RE: ARCHITECTURAL/CIVIL DRAWINGS
5/8" RD	19/32" APA RATED SHEATHING ATTACHED WITH 8d NAILS OR #10 SCREWS (SCREWS REQ'D AT TPO/LOW SLOPED ROOFS) @ 6" O.C. @ EDGES & 12" O.C. @ FIELD

NOTES:

1. FD = FLOOR DECK TYPE
2. TS = TOPPING SLAB TYPE
3. SOG = SLAB-ON-GRADE TYPE
4. RD = ROOF DECK TYPE
5. PT = POST TENSION

FLOOR & ROOF FRAMING HEADERS SCHEDULE

MARK	HEADER	NOTES
HR1	(2) 2 x 8	
HR2	(3) 2 x 8	
HR3	(2) 2 x 10	
HR4	(2) 2 x 12	
HR5	(3) 2 x 12	
HR6	1 1/4" x 18" LSL RIM W/ (2) 2 x 8	
HR7	1 1/4" x 18" LSL RIM W/ (2) 2 x 12	
HR8	1 1/4" x 18" LSL RIM W/ (2) 1 3/4" x 11 7/8" LVL	NOTCH LSL @ INTERSECTING HEADER (USE CONCEALED FLANGE HANGER). RE: 4A/S3.10
HR9	1 1/4" x 18" LSL RIM W/ (2) 1 3/4" x 18" LVL	NOTCH LSL FROM INTERSECTING HEADER. RE: 4A/S3.10, NOTE 9.
HR10	(2) 1 3/4" x 9 1/4" LVL	
HR11	(2) 1 3/4" x 11 7/8" LVL	
HR12	(2) 1 3/4" x 18" LVL	
HR13	GIRDER TRUSS	
HR14	1 1/4" x 18" LSL RIM W/ (3) 1 3/4" x 18" LVL	NOTE 9.

NOTES:

1. JAMB STUDS SHALL MATCH SIZE & GRADE OF WALL STUDS, U.N.O.
2. WHERE BEAM IS DESIGNATED AS UPSET (W/ "u"), ALL JAMB STUDS NOTED WILL EXTEND TO DOUBLE TOP PLATE.
3. ALL EXTERIOR FRAMING TO BE TREATED.
4. PROVIDE SQUASH BLOCKS @ TRUSSES & BLOCKING @ FRAMING WHERE JAMBS OR STUD PACKS ARE DISCONTINUOUS. QUANITITY TO MATCH JAMB OR STUD PACK ABOVE. RE: 7 & 7A/S0.06.
5. PROVIDE 1/2" PLYWOOD SPACER PLATES @ INTERIOR HEADERS CONSTRUCTED W/ 2x FRAMING (RE: 5B/S0.04). PROVIDE INSULATION ON INSIDE FACE OF EXTERIOR HEADERS FOR REMAINDER OF WALL WIDTH (RE: ARCH. DWG's). OMIT INSULATION & PROVIDE PLYWOOD SPACERS @ ROOF TRUSS BEARING HEADERS FOR HOLDOWN INSTALLATION.
6. RE: DETAIL 5A OR 5B/S0.04 FOR MULTI-PLY MEMBER CONNECTION REQUIREMENTS.
7. ATTACH JAMB & KING STUDS TOGETHER PER DETAILS 4 & 5/S0.04.
8. PROVIDE (2) KING STUDS MIN. WHEN PL. HEIGHT > 9'. WHERE TRANSOM WINDOWS OCCUR, PROVIDE INTERMEDIATE GIRT PER SECTIONS BTWN. FULL HEIGHT JAMB STUDS.
9. WHERE SHEARWALL ATS ROD(S) TIE INTO BEAM, UTILIZE 28F-E2 SP/SP (B) GLULAM OF EQUIVALENT SIZE TO THE MULTIPLE LVL's SPECIFIED IN SCHEDULE.
10. REFER TO COL. & KING STUDS SCHEDULES FOR JACK & KING STUD REQUIREMENTS.

FLOOR & ROOF FRAMING BEAMS SCHEDULE

MARK	BEAM SIZE	BEAM SPECIFICATIONS	BEAM END BEARING / GENERAL BEARING CONDITIONS
uB1	5 1/2" x 11 1/4"	24F-V5M1 SP/SP (B), TREATED	UPSET WITHIN BALCONY FRMG., W/ HANGER EA. END
uB2	3 1/2" x 11 7/8"	28F-E2 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ 14'-0" Lg. BACK-SPAN FROM EXTERIOR FACE OF BALCONY BACK WALL FRMG. INFILL BLOCKING ATOP BEAM AS REQ'D @ INTERIOR FLOOR FRMG.
uB3	(2) 2x12	TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ INVERTED HANGER CONN. TO INTERIOR BEAM @ ABOVE GARAGES --OR-- W/ MIN. 2:1 BACK-SPAN (5'-4":2'-8" TYP.) LENGTH REQ'D @ ABOVE PATIOS. INFILL BLOCKING ATOP BEAM AS REQ'D @ INTERIOR FLOOR FRMG.
uB4	7" x 18"	30F-E2 SP/SP (B), NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END
uB5	(1) 2x12	TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE	UPSET WITHIN BALCONY FRMG. @ OUTER EDGE
uB6	W16x26	WIDE-FLANGE STEEL BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ MIDDLE SPAN & @ EA. END --OR-- UPSET HEADER CONDITION W/ FULL WALL BRG. ON STUD PACKS @ EA. END.
uB7	7" x 18"	30F-V5M1 SP/SP (B), NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ MIDDLE SPAN & @ EA. END
B8	5 1/2" x 11 7/8"	24F-V5M1 SP/SP (B), TREATED	DOWNSET BELOW BALCONY FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END
uB9	3 1/2" x 11 1/4"	24F-V5M1 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ MIN. 2:1 (5'-4":2'-8" TYP.) BACK-SPAN LENGTH REQ'D @ TYP. BALCONY --OR-- W/ INVERTED HANGER CONN, TO INTERIOR BEAM @ ABOVE GARAGE
uB10	(2) 2x12	TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE	UPSET WITHIN FLOOR FRMG., CANTILEVERED W/ MIN. 2:1 (5'-4":2'-8" TYP.) BACK-SPAN LENGTH REQ'D. INFILL BLOCKING ATOP BEAM AS REQ'D @ INTERIOR FLOOR FRMG.
uB11	(2) 2x12	TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE	UPSET WITHIN BALCONY FRMG., W/ HANGER CONN. @ EA. END
uB12	(3) 2x12	TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE	UPSET WITHIN BALCONY FRMG., W/ HANGER CONN. @ EA. END
uB13	3 1/2" x 11 1/4"	24F-V5M1 SP/SP (B), TREATED	UPSET WITHIN BALCONY FRMG., W/ HANGER CONN. @ EA. END (SKEWED HANGER @ END THAT CONNECTS TO STEEL BEAM)
uB14	W10x19 CONT.	WIDE-FLANGE STEEL BEAM	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ FULL WALL BRG. ON STUD PACKS @ END, @ (1) MID-SPAN PORTION, & @ EXTERIOR WALL NEAR CANTILEVERED END
uB15	W12x26	WIDE-FLANGE STEEL BEAM	UPSET WITHIN FLOOR FRMG., W/ SKEWED BOLTED CONN. TO STEEL BEAM @ END & FULL WALL BRG. ON STUD PACKS @ OPPOSITE END. PROVIDE FULL WIDTH x WEB DEPTH BLOCKING AS REQ'D FOR BALCONY LEDGER ATTACHMENT @ EXTERIOR, RE: 7/S0.20
uB16	W12x72	WIDE-FLANGE STEEL BEAM	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ SKEWED BOLTED CONN. TO STEEL BEAM @ END & FULL WALL BRG. ON STUD PACKS @ EXTERIOR WALL NEAR CANTILEVERED END
uB17	W12x14	WIDE-FLANGE STEEL BEAM	UPSET WITHIN FLOOR FRMG., W/ SKEWED BOLTED CONN. TO STEEL BEAM @ EA. END. PROVIDE FULL WIDTH x WEB DEPTH BLOCKING AS REQ'D FOR BALCONY LEDGER ATTACHMENT @ EXTERIOR, RE: 7/S0.20
uB18	W12x50	WIDE-FLANGE STEEL BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ END & SKEWED BOLTED CONN. TO STEEL BEAM @ OPPOSITE END. BEAM uB16 INTERSECTS THIS BEAM W/ A SKEWED BOLTED CONN.
uB19	W12x19 CONT.	WIDE-FLANGE STEEL BEAM	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ FULL WALL BRG. ON STUD PACKS @ END & @ EXTERIOR WALL NEAR CANTILEVERED END, W/ ADDT'L SUPPORT VIA STEEL COLUMNS @ (2) MID-SPAN PORTIONS
uB20	5 1/4" x 18"	LVL, NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ ONE END & SKEWED HANGER CONN. TO STEEL BEAM @ OPPOSITE END
B21	W12x45 --OR-- HSS 12 x 8 x 5/8	WIDE-FLANGE BEAM --OR-- HSS (A500 GR. B)	DOWNSET BELOW BALCONY FRMG., FULL WALL BRG. ON STUD PACKS EA. END
uB22	3 1/2" x 11 1/4"	24F-V5M1 SP/SP (B), TREATED	UPSET WITHIN BALCONY FRMG., FULL WALL BRG. ON STUD PACKS EA. END
uB23	3 1/2" x 11 1/4"	24F-V5M1 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ MIN. 2:1 (10'-0":5'-0" TYP.) BACK-SPAN LENGTH REQ'D @ TYP. INSET CORNER BALCONY
uB24	(3) 2x12	TREATED SOUTHERN YELLOW PINE, NO. 2 GRADE	UPSET WITHIN BALCONY FRMG., W/ SKEWED HANGER CONN. @ EA. END
uB25	5 1/2" x 11 1/4"	30F-E2 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ 16'-0" Lg. BACK-SPAN FROM EXTERIOR FACE OF BALCONY BACK WALL FRMG. INFILL BLOCKING ATOP BEAM AS REQ'D @ INTERIOR FLOOR FRMG.
uB26	5 1/2" x 11 1/4"	30F-E2 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ 16'-0" Lg. BACK-SPAN FROM EXTERIOR FACE OF BALCONY BACK WALL FRMG., W/ HANGER CONN. TO INTERIOR BEAM. PROVIDE STUD PACK BRG. @ EXTERIOR WALL DOWN TO TOP OF WINDOW HEADER SUPPORT NEAR CANTILEVERED END
uB27	7" x 11 1/4"	30F-E2 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ 15'-0" Lg. BACK-SPAN FROM EXTERIOR FACE OF BALCONY BACK WALL FRMG., W/ HANGER CONN. TO INTERIOR BEAM. PROVIDE STUD PACK BRG. @ EXTERIOR WALL DOWN TO TOP OF WINDOW HEADER SUPPORT NEAR CANTILEVERED END
uB28	3 1/2" x 11 1/4"	30F-E2 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ 15'-0" Lg. BACK-SPAN FROM EXTERIOR FACE OF BALCONY BACK WALL FRMG. INFILL BLOCKING ATOP BEAM AS REQ'D @ INTERIOR FLOOR FRMG.
uB29	3 1/2" x 11 1/4"	LVL, NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END. PROVIDE HANGER SUPPORT NEAR MID-SPAN FOR SUPPORT OF uB27 CANTILEVERED BEAM
uB30	7" x 9 1/2"	30F-E2 SP/SP (B), NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END. PROVIDE HANGER SUPPORT NEAR MID-SPAN FOR SUPPORT OF uB26 CANTILEVERED BEAM
B31	W12x30 --OR-- HSS 12 x 6 x 1/4	WIDE-FLANGE BEAM --OR-- HSS (A500 GR. B)	DOWNSET BELOW BALCONY FRMG., FULL WALL BRG. ON STUD PACKS EA. END
uB32	5 1/2" x 11 1/4"	30F-E2 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ 14'-0" Lg. BACK-SPAN FROM EXTERIOR FACE OF BALCONY BACK WALL FRMG., W/ HANGER CONN. TO INTERIOR BEAM. PROVIDE STUD PACK BRG. @ EXTERIOR WALL NEAR CANTILEVERED END. INFILL BLOCKING ATOP BEAM AS REQ'D @ INTERIOR FLOOR FRMG.
uB33	5 1/2" x 11 7/8"	30F-E2 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ 14'-0" Lg. BACK-SPAN FROM EXTERIOR FACE OF BALCONY BACK WALL FRMG., W/ HANGER CONN. TO INTERIOR BEAM. PROVIDE STUD PACK BRG. @ EXTERIOR WALL NEAR CANTILEVERED END. INFILL BLOCKING ATOP BEAM AS REQ'D @ INTERIOR FLOOR FRMG.
uB34	5 1/2" x 11 7/8"	30F-E2 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ 14'-0" Lg. BACK-SPAN FROM EXTERIOR FACE OF BALCONY BACK WALL FRMG., W/ HANGER CONN. TO INTERIOR BEAM. PROVIDE STUD PACK BRG. @ EXTERIOR WALL DOWN TO TOP OF WINDOW HEADER NEAR CANTILEVERED END. INFILL BLOCKING ATOP BEAM AS REQ'D @ INTERIOR FLOOR FRMG.
uB35	3 1/2" x 11 1/4"	24F-V5M1 SP/SP (B), TREATED	UPSET WITHIN FLOOR FRMG., CANTILEVERED, W/ 14'-0" Lg. BACK-SPAN FROM EXTERIOR FACE OF BALCONY BACK WALL FRMG. INFILL BLOCKING ATOP BEAM AS REQ'D @ INTERIOR FLOOR FRMG.
uB36	3 1/2" x 9 1/4"	LVL, NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END. PROVIDE HANGER SUPPORT FOR SUPPORT OF uB32 & uB33 CANTILEVERED BEAMS --OR-- SUPPORT OF uB34 & uB35 CANTILEVERED BEAMS
uB37	W12x30	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACK @ END W/ SKEWED BOLTED CONN. TO uB38 STEEL BEAM @ OPPOSITE END & SHARED STUD PACK BRG.
uB38	W12x22	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACK @ END W/ SKEWED BOLTED CONN. TO uB37 STEEL BEAM @ OPPOSITE END & SHARED STUD PACK BRG.
uB39	3 1/2" x 18"	LVL, NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, TYP. PROVIDE HANGER SUPPORT FOR SUPPORT OF INTERMEDIATE BEAMS WHERE OCCURS. @ STAIR BEAMS PROVIDE BRG. STUDS AS FOLLOWS: 3RD FLR. WALLS: (2) 2x4 2ND FLR. WALLS: (3) 2x4 1ST FLR. WALLS: (4) 2x4 BASEMENT WALLS: (5) 2x4
uB40	W8 x 24 --OR-- 3 1/2" x 18"	WIDE-FLANGE BEAM --OR-- GLULAM 30F-E1 SP/SP (U), NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, TYP.
uB41	W16x67	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, TYP. --OR-- STEEL BEAM BOLTED CONNECTIONS @ EA. END
uB42	7" x 18"	LVL, NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ END & W/ HANGER CONN. @ OPPOSITE END, W/ INTERSECTING BEAM / HANGER CONNECTIONS TO THIS BEAM PER PLAN
uB43	W8x58 CONT.	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END & @ INTERMEDIATE BRG. POINTS, W/ INTERSECTING BEAM / HANGER OR STEEL BEAM BOLTED CONNECTION TO THIS BEAM PER PLAN
uB44	5 1/4" x 18"	LVL, NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, W/ INTERSECTING BEAM / HANGER CONNECTIONS TO THIS BEAM PER PLAN
uB45	7" x 18"	LVL, NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ HANGER CONN. @ EA. END
uB46	W12x40	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, W/ INTERSECTING BEAM / HANGER CONNECTIONS TO THIS BEAM PER PLAN
uB47	3 1/2" x 18"	LVL, NOT TREATED	UPSET WITHIN FLOOR FRMG., W/ HANGER CONN. @ EA. END
uB48	W10x33	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ END & W/ STEEL BEAM BOLTED CONN. @ OPPOSITE END --OR-- STEEL BEAM BOLTED CONNECTIONS @ EA. END
uB49	W14x38	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, W/ INTERSECTING BEAM / HANGER CONNECTIONS TO THIS BEAM PER PLAN
uB50	W16x26	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ STEEL BOLTED CONNECTIONS @ EA. END, W/ BRG. @ INTERMEDIATE BRG. POINTS, W/ INTERSECTING STEEL BEAM BOLTED CONNECTIONS TO THIS BEAM PER PLAN
uB51	W12x53	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ STEEL BOLTED CONNECTIONS @ EA. END, W/ INTERSECTING STEEL BEAM BOLTED CONN. TO THIS BEAM PER PLAN
uB52	W14x82	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, W/ INTERSECTING STEEL BEAM BOLTED CONN. TO THIS BEAM PER PLAN
uB53	W10x45	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ END & W/ STEEL BEAM BOLTED CONN. @ OPPOSITE END, W/ INTERSECTING STEEL BEAM BOLTED CONN. TO THIS BEAM PER PLAN
uB54	W8x24	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ STEEL BEAM BOLTED CONN. @ EA. END
uB55	W14x159	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, W/ INTERSECTING STEEL BEAM BOLTED CONNECTIONS TO THIS BEAM PER PLAN
uB56	W12x45	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, W/ INTERSECTING BEAM / HANGER CONN. TO THIS BEAM PER PLAN --OR-- W/ FULL WALL BRG. ON STUD PACKS @ END & W/ STEEL BEAM BOLTED CONN. @ OPPOSITE END, W/ INTERSECTING BEAM / HANGER & STEEL BEAM BOLTED CONNECTIONS PER PLAN
uB57	W12x22	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, W/ INTERSECTING STEEL BEAM BOLTED CONN. TO THIS BEAM PER PLAN
uB58	W10x39	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ STEEL BEAM BOLTED CONN. @ EA. END
uB59	W12x26	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ EA. END, W/ INTERSECTING STEEL BEAM BOLTED CONN. TO THIS BEAM PER PLAN
uB60	W12x30	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ END & W/ STEEL BEAM BOLTED CONNECTION @ OPPOSITE END, W/ INTERSECTING STEEL BEAM BOLTED CONN. TO THIS BEAM PER PLAN
uB61	W8x13	WIDE-FLANGE BEAM	UPSET WITHIN FLOOR FRMG., W/ FULL WALL BRG. ON STUD PACKS @ END & W/ STEEL BEAM BOLTED CONNECTION @ OPPOSITE END

NOTES:

1. SEE "FLOOR & ROOF FRAMING HEADERS SCHEDULE" FOR TYPICAL NOTES.
2. REFER TO SEGMENT B / CLUB PLANS FOR STEEL BEAM SIZES & TYPES APPLICABLE TO THAT PORTION OF THE BUILDING.

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JOHN A. KRUDWIG
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PROFESSIONAL ENGINEER
04.11.23

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11200 Corporate Ave., Suite 110 Lenexa, Kansas 66219

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REVISIONS
1 23 0411 CITY COMMENTS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
FRAMING, FOOTING & SLAB/DECK SCHEDULES
SHEET NO.
S0.03

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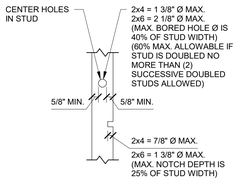
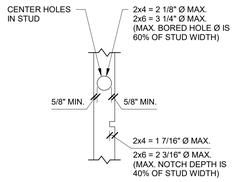


BEARING WALL



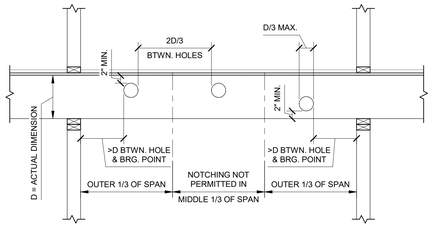
NON-BEARING WALL

NOTES (BEARING WALL):

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 & LOCATION IF HOLE IS GREATER THAN 20% STUD WIDTH OR NOTCHES GREATER THAN 10% STUD WIDTH ARE REQUIRED IN (2) OR MORE CONSECUTIVE STUDS.
3. NOTCHES OR HOLES NOT PERMITTED IN JAMBS, STUD PACKS & @ ENDS OF SHEARWALLS.
4. STUD SHOES ARE NOT AN ACCEPTABLE REMEDIATION OF OVER-NOTCHED OR OVER-CUT STUDS WITHOUT PRIOR APPROVAL OF ENGINEER OF RECORD.
5. HOLES MAY BE VERTICALLY ELONGATED TO A MAX. VERTICAL DIMENSION OF 6" TO ACCOMODATE BUILDING SHRINKAGE.

ALLOWABLE HOLES/NOTCHES IN WALL STUDS

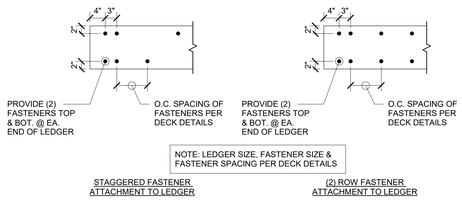
1 SECTION
3/4" = 1'-0"



NOTES:

1. CONTACT ARCHITECT PRIOR TO CUTTING JOISTS TO VERIFY SIZE & 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 SECTION
3/4" = 1'-0"



TYPICAL LEDGER ATTACHMENT

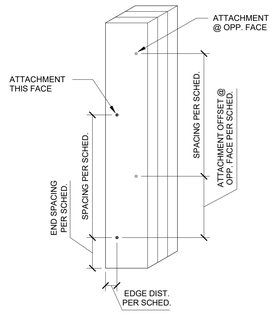
3 SECTION
3/4" = 1'-0"

STUD BEARING WALL SCHEDULE

MARK	BASEMENT WALLS (1ST FLR. FRMG.)	1ST FLR. WALLS (2ND FLR. FRMG.)	2ND FLR. WALLS (3RD FLR. FRMG.)	3RD FLR. WALLS (4TH FLR. FRMG.)	4TH FLR. WALLS (ROOF FRAMING)	NOTES
1 COR.	(2) 2x4 @ 16" O.C. --OR-- 2x6 @ 16" O.C.	2x4 @ 16" O.C. D.E.O. --OR-- 2x6 @ 16" O.C.	2x4 @ 16" O.C. D.E.O. --OR-- 2x6 @ 16" O.C.	2x4 @ 16" O.C. D.E.O. --OR-- 2x6 @ 16" O.C.	2x4 @ 16" O.C.	RE: NOTES 6 & 7
2 L.B.W.	(3) 2x4 @ 12" O.C. --OR-- (2) 2x6 @ 16" O.C.	(3) 2x4 @ 16" O.C. --OR-- 2x6 @ 16" O.C.	(2) 2x4 @ 16" O.C. --OR-- 2x6 @ 16" O.C.	2x4 @ 16" O.C.	2x4 @ 16" O.C.	RE: NOTES 6 & 8
3 EXT. T	2x6 @ 16" O.C. D.E.O.	2x6 @ 16" O.C. D.E.O.	2x6 @ 16" O.C.	2x6 @ 16" O.C.	2x6 @ 16" O.C.	RE: NOTES 6 & 9
4 EXT. C	(2) 2x6 @ 16" O.C.	(2) 2x6 @ 16" O.C.	2x6 @ 16" O.C. D.E.O.	2x6 @ 16" O.C.	2x6 @ 16" O.C.	RE: NOTES 6 & 10
5 L.B.W.S.	N/A	(2) 2x6 @ 16" O.C.	(3) 2x4 @ 16" O.C. --OR-- 2x6 @ 16" O.C.	(2) 2x4 @ 16" O.C. --OR-- 2x6 @ 16" O.C.	PER L.B.W.	RE: NOTES 6 & 11

NOTES:

1. ALL EXTERIOR STUD BACK-UP @ MASONRY VENEER TO BE 2x4 @ 12" O.C. --OR-- 2x6 @ 16" O.C. MIN., W/ 9'-1" STUD HEIGHT.
2. PROVIDE 2x BLOCKING @ MID-HEIGHT (5'-0" MAX.) @ ALL LOAD BEARING WALLS NOT SHEATHED ON BOTH SIDES & @ ALL 2x6 GARAGE WALLS.
3. WHERE STUD SIZE IN ARCHITECTURAL PLANS IS LARGER THAN THAT SHOWN IN SCHEDULE, USE SAME NUMBER OF LARGER STUDS TO THOSE SHOWN IN SCHEDULE (U.N.O.). AT 2x6 LOAD BEARING GARAGE WALLS ALIGNED WITH DOUBLE 2x4 WALLS ABOVE, PROVIDE (2) 2x6 STUDS @ 16" O.C. (ALIGN DOUBLE STUDS W/ FLOOR TRUSSES W/ INFILL STUD BTWN. STUD PACKS @ OFFSET BEARING WALLS).
4. REFER TO 4/S0.04 FOR NAILING OF MULTIPLE STUDS.
5. ROOF TRUSS BEARING WALLS W/ PL. HEIGHT > 10' SHALL BE (2) 2x4 @ 16" O.C. MIN.
6. D.E.O. = DOUBLE EVERY OTHER STUD.
7. COR. = CORRIDOR BEARING WALLS.
8. L.B.W. = TYPICAL LOAD BEARING WALLS NOT @ CORRIDORS OR EXTERIOR WALLS.
9. EXT. T = TYPICAL EXTERIOR LOAD BEARING WALLS.
10. EXT. C = "CORNER" EXTERIOR LOAD BEARING WALLS: LOCATIONS WHERE FLOOR TRUSSES ARE PERPENDICULAR / BEARING ON THE EXTERIOR WALL.
11. L.B.W.S. = SPECIAL LOAD BEARING WALL. OCCURS @ BRG. WALLS @ UNITS TYPES B1, B2, B4, C1, C2, C3 & D1. RE: SHEARWALL / HOLDOWN PLANS FOR SPECIFIC LOCATIONS.



TYPICAL MULTI-PLY STUD CONNECTION

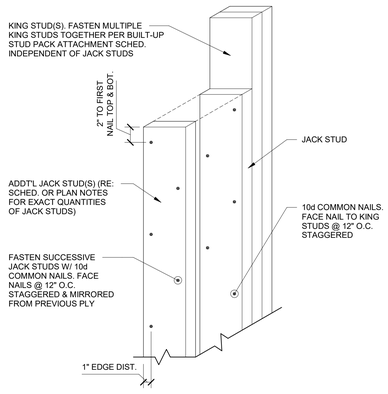
4 SECTION
1 1/2" = 1'-0"

BUILT-UP STUD PACK COLUMN ATTACHMENT SCHEDULE

# OF PLIES	ATTACHMENT @ COL. STUD PACKS SUPPORTING BEAMS & UPSET HEADERS	ATTACHMENT @ COL. STUD PACKS SUPPORTING TRUSSES & KING STUDS OF DOWNSET HEADERS
2-PLY MEMBERS	8d NAILS @ 12" O.C. 1" FROM EDGE, W/ OPP. EDGE NAILED FROM OPP. SIDE OFFSET 6", @ 12" O.C. W/ FIRST NAIL 2" FROM EA. END	8d NAILS @ 12" O.C. 1" FROM EDGE, W/ OPP. EDGE NAILED FROM OPP. SIDE OFFSET 6", @ 12" O.C. W/ FIRST NAIL 2" FROM EA. END
3-PLY MEMBERS	SIMPSON SDWS22400 @ 16" O.C. 1 1/2" FROM EDGE, W/ OPP. EDGE SCREWED FROM OPP. SIDE OFFSET 8", @ 16" O.C. W/ FIRST SCREW 4" FROM EA. END	8d NAILS @ 12" O.C. 1" FROM EDGE, W/ OPP. EDGE NAILED FROM OPP. SIDE OFFSET 6", @ 12" O.C. W/ FIRST NAIL 2" FROM EA. END
4-PLY MEMBERS	SIMPSON SDWS22500 @ 16" O.C., 1 1/2" FROM EDGE W/ OPP. EDGE SCREWED FROM OPP. SIDE OFFSET 8", @ 16" O.C. W/ FIRST SCREW 4" FROM EA. END	(3) PLIES ATTACHED PER 3-PLY ATTACHMENT W/ 4TH PLY ATTACHED W/ 8d NAILS @ 12" O.C. IN (2) ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6"
5-PLY MEMBERS	SIMPSON SDWS22600 @ 12" O.C., 1 1/2" FROM EDGE W/ OPP. EDGE SCREWED FROM OPP. SIDE OFFSET 6", @ 12" O.C. W/ FIRST SCREW 4" FROM EA. END	(3) PLIES ATTACHED PER 3-PLY ATTACHMENT W/ 4TH & 5TH PLY ATTACHED W/ 8d NAILS @ 12" O.C. IN (2) ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6"
6-PLY MEMBERS	SIMPSON SDWS22800 @ 12" O.C., 1 1/2" FROM EDGE W/ OPP. EDGE SCREWED FROM OPP. SIDE OFFSET 6", @ 12" O.C. W/ FIRST SCREW 4" FROM EA. END	(3) PLIES ATTACHED PER 3-PLY ATTACHMENT W/ 4TH PLY ATTACHED W/ 8d NAILS @ 12" O.C. IN (2) ROWS, 1 1/2" FROM EDGE, OFFSET ROW 6", & 5TH & 6TH PLIES ATTACHED W/ SIMPSON SDWS22500 @ 12" O.C. IN (2) ROWS, 1 1/2" FROM EDGE, OFFSET ROWS 6" W/ FIRST SCREW 4" FROM EA. END

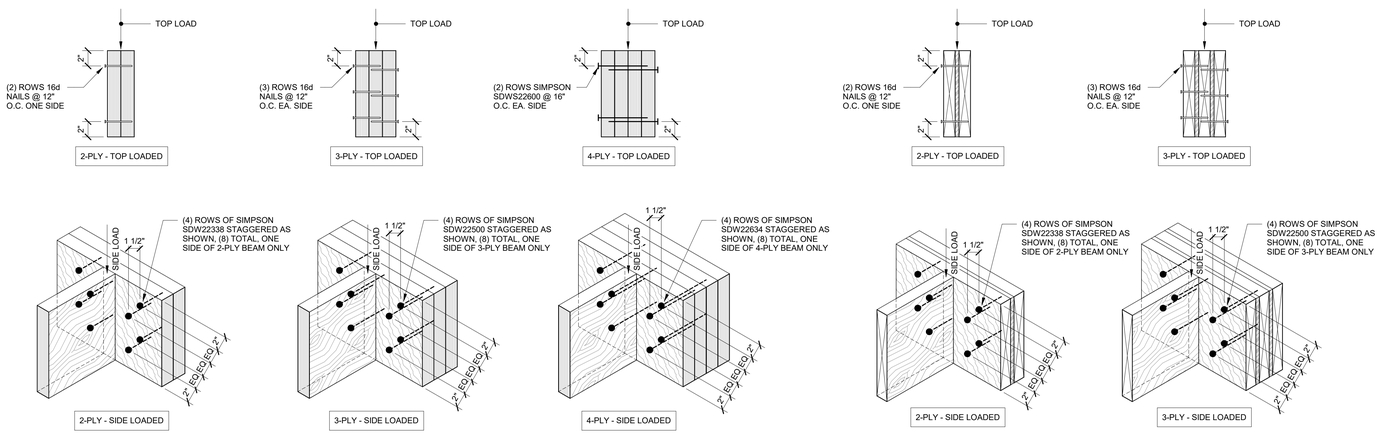
NOTES:

1. ALL BUILT-UP STUD PACKS MUST ALIGN FLOOR TO FLOOR W/ SOLID BLOCKING (SQUASH BLOCKS) @ FLOOR CAVITIES.
2. EXTEND ALL STUD PACKS TO COLUMNS U.N.O.
3. ALL NAILS ARE COMMON NAILS U.N.O.



TYPICAL JACK STUD ATTACHMENT

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



TYPICAL MULTI-PLY BEAM CONNECTION

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

TYPICAL MULTI-PLY HEADER CONNECTION

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

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NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME STUD BEARING WALL SCHEDULE
SHEET NO. S0.04

4/11/2023 5:24:12 PM

ARCH E1.30" x 42"

SHEARWALL SCHEDULE

SHEARWALL TYPE		FLOOR				
		BASEMENT WALLS	1ST FLR. WALLS	2ND FLR. WALLS	3RD FLR. WALLS	4TH FLR. WALLS
SW1	MATERIAL THICKNESS	3/8" W.S.P.-SHEATHING ONE SIDE W/ EDGES BLOCKED (EA. WALL)	3/8" W.S.P.-SHEATHING ONE SIDE W/ EDGES BLOCKED (EA. WALL)	3/8" W.S.P.-SHEATHING ONE SIDE W/ EDGES BLOCKED (EA. WALL)	3/8" W.S.P.-SHEATHING ONE SIDE W/ EDGES BLOCKED (EA. WALL)	3/8" W.S.P.-SHEATHING ONE SIDE W/ EDGES BLOCKED (EA. WALL)
	NAIL SIZE & SPACING	8d NAILS @ 3/3	8d NAILS @ 6/6	8d NAILS @ 4/4	8d NAILS @ 6/6	8d NAILS@ 6/6
	SILL PL. ANCHORS	1/2" Ø ANCHOR BOLTS @ 32" O.C.	1/2" Ø ANCHOR BOLTS @ 32" O.C. OR SDWS22400 @ 16" O.C.	SDWS22400 @ 24" O.C.	SDWS22400 @ 24" O.C.	SDWS22400 @ 32" O.C.
	TOP PL. SCREWS	SDWS22500 @ 24" O.C.	SDWS22500 @ 24" O.C.	SDWS22500 @ 32" O.C.	SDWS22500 @ 32" O.C.	SDWS22500 @ 32" O.C.
	SHEAR FORCE	587 PLF (WORST)	383 PLF (WORST)	484 PLF (WORST)	266 PLF (WORST)	262 PLF (WORST)

NOTES:

1. NAILING SHALL BE TO ALL STUDS, TOP & BOT. PLATES, & BLOCKING WHERE INDICATED.
2. PROVIDE CONT. ATS ROD SYSTEM OR MECH. HOLDOWNS PER PLAN & SCHED.
3. NAIL SPACING SHOWN AS (# / #) WHICH INDICATES FASTENERS SPACING IN INCHES @ THE EDGES / FIELD WHERE FIELD IS THE INTERMEDIATE MEMBERS.
4. TYP. SILL PL. TO WOOD SHALL BE 16d @ 12" O.C. U.N.O. IN SCHEDULE.
5. TYP. SILL PL. TO CONCRETE SHALL BE 1/2" Ø ANCHORS PER 3/S3.01.
   A. @ 2x4 WALLS SPACE AS INDICATED IN SCHED. W/ 1/4" x 2 1/2" x 2 1/2" PL. WASHER OR SIMPSON BPS 1/2 - 3 @ CONTRACTOR'S OPTION.
   B. @ 2x6 WALLS SPACE AS INDICATED IN SCHED. W/ 1/4" x 2 1/2" x 4 1/2" PL. WASHER OR SIMPSON BPS 1/2 - 6 @ CONTRACTOR'S OPTION.
6. PL. WASHERS TO MAINTAIN MAX. OF 1/2" BTWN. EDGE OF SILL PL. (ON SIDE OF SHEARWALL SHEATHING; ALT. SIDES WHERE SHEATHING IS INSTALLED ON BOTH SIDES) & EDGE OF PL. WASHER.
7. SHEARWALL SHEATHING CALLED OUT @ CORRIDOR WALLS SHALL BE LOCATED @ UNIT SIDE OF WALL.
8. DESIGN SHEAR TRUSSES FOR FORCES INDICATED IN SCHED.
9. NAILS @ WOOD STRUCTURAL PANEL SHEARWALLS SHALL BE GALVANIZED COMMON OF TYPE INDICATED.
10. EXTERIOR BUILDING SHEATHING SHALL BE 7/16" OSB (OR EQ.) BLOCKED W/ 8d NAILS @ 6/12 NAILING PATTERN. INSTALL SHEATHING VERTICALLY & SPLICE PANELS @ FLOOR PER 1/S0.06 (PROVIDE STRAPS PER 2/S0.06 WHERE SHEATHING JOINTS DO NOT CONFORM TO 1/S0.06).
11. RE: DETAILS 2B/S0.08 & 3/S0.09 @ OPENINGS THROUGH SHEARWALLS.
12. NAILING @ (2) LAYERS OF 5/8" GYPSUM SHEATHING, ONE SIDE, W/ EDGES BLOCKED:
    A. BASE PLY: 6d COOLER NAILS @ 9/9.
    B. FACE PLY: 8d COOLER NAILS @ 7/7.
    NOTE: IN LIEU OF (2) LAYERS OF 5/8" SHEATHING, @ CONTRACTOR'S OPTION, 7/16" APA-RATED SHEATHING MAY BE USED W/ EDGES BLOCKED W/ 8d NAILS @ 6/12.
13. RE: DETAILS 9 THROUGH 12/S0.06 & DETAILS 10 THROUGH 12A ON SHEET S0.07 FOR SHEARWALL DETAILING @ ENDS OF WALLS, INTERSECTIONS & JOISTS.
14. ALL TOP PL. SCREWS INDICATED IN SCHED. ARE SIMPSON SDWS22500.
15. WHERE SHEARWALL IS CALLED OUT ON EA. SIDE OF SINGLE WALL, PROVIDE INDICATED SHEATHING ON EA. SIDE OF WALL.
16. FASTENING OF GYP. BD. PER MANFACTURER'S SPECIFICATIONS.

SHEARWALL HOLDOWN SCHEDULE

MARK	BASEMENT WALLS	1ST FLR. WALLS	2ND FLR. WALLS	3RD FLR. WALLS	4TH FLR. WALLS	MIN. ALLOWABLE ROD TENSILE CAPACITY	EMBEDDED ANCHOR OR EQ.
1	5/8" STANDARD THREADED ROD W/ (4) 2x4 OR (4) 2x6	5/8" STANDARD THREADED ROD W/ (4) 2x4 OR (4) 2x6	1/2" STANDARD THREADED ROD W/ (4) 2x4 OR (4) 2x6	1/2" STANDARD THREADED ROD W/ (4) 2x4 OR (4) 2x6	1/2" STANDARD THREADED ROD W/ (4) 2x4 OR (4) 2x6	5/8" = 6,675 lbs 1/2" = 4,270 lbs	SIMPSON PAB5-24
2	3/4" STANDARD THREADED ROD W/ (4) 2x4 OR (4) 2x6	3/4" STANDARD THREADED ROD W/ (4) 2x4 OR (4) 2x6	1/2" STANDARD THREADED ROD W/ (4) 2x4 OR (4) 2x6	1/2" STANDARD THREADED ROD W/ (4) 2x4 OR (4) 2x6	1/2" STANDARD THREADED ROD W/ (4) 2x4 OR (4) 2x6	3/4" = 9,610 lbs 1/2" = 4,270 lbs	SIMPSON PAB6-24

NOTES:

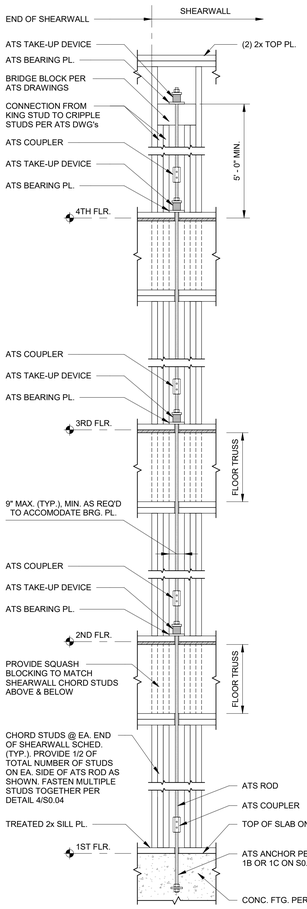
1. CONT. ROD SYSTEM BASED UPON CONT. THREADED RODS UTILIZING EITHER CLP SYSTEM OR SIMPSON ATS SYSTEM.
2. RODS SHALL HAVE A MIN. TENSILE CAPACITY SHOWN IN SCHED.
3. RE: SECTION DETAILS ON S0.05 & S0.07 FOR TYP. HOLDOWN DETAILS.
4. ALL HOLDOWNS TO HAVE HALF THE LISTED REQ'D STUDS EA. SIDE OF THREADED ROD TO MATCH STUD SIZE & GRADE NOTED IN WALL SCHED. HOLDOWN STUDS ARE IN ADDITION TO BEARING WALL STUDS - PROVIDE ADDT'L STUDS AS REQ'D TO MEET QUANTITY NOTED IN SCHED. OFFSET STUD PACK 3" TYP. FROM CENTERLINE OF THREADED ROD. PROVIDE SQUASH BLOCKS WITHIN FLOOR PLATE DEPTH (TRUSS DEPTH) ALIGNED W/ STUD PACKS. QUANTITY OF SQUASH BLOCKS TOP MATCH QUANTITY OF STUDS BELOW.
5. PROVIDE CAST-IN-PLACE ANCHOR PER SCHED. OR DRILL & EPOXY THREADED ROD INTO FOUNDATION/SLAB W/ 9" EMBED (CAST IN ANCHOR REQ'D @ EDGE OF SLAB CONDITIONS PER 1C/S0.05). ROD SHALL BE CLEAN OF GREASE. ATTACHMENT TO CONC. REQUIRES FULL TIME SPECIAL INSPECTION.
6. PROVIDE PL. WASHER, NUT & BRG. PL. CAPABLE OF DEVELOPING CAPACITY OF ROD @ EA. FLOOR.
7. PROVIDE TAKE-UP DEVICE @ EA. FLOOR (RE: ESTIMATED BUILDING MOVEMENT TABLE).
8. PROVIDE COUPLING TAKE-UP DEVICE AS REQ'D (RE: ESTIMATED BUILDING MOVEMENT TABLE).
9. PROVIDE SHOP DRAWINGS SHOWING LOCATIONS OF ALL HOLDOWNS & HARDWARE FOR REVIEW PRIOR TO INSTALLATION.
10. HOLE THROUGH TOP & SILL PLATES SHALL BE ROD DIAMETER PLUS 1/4".
11. PROVIDE BRG. PL. ON UNDERSIDE OF UPSET BEAM (RE: 3/S0.05) @ "D" SERIES RODS.
12. SHEARWALL HOLDOWN TYPE INFO:

REV 1

SHEARWALL HOLDOWN BASE CONDITION:
s = TYPICAL FOUNDATION / SLAB-ON-GRADE CONNECTION / TERMINATION FOR CONTINUOUS ROD
b = CONTINUOUS ROD HOLDOWN TERMINATION @ WOOD OR STEEL BEAM, RE: DETAILS FOR ADDT'L INFO (RE: SHOP DRAWINGS FOR STEEL TERMINATION DETAILS)
g = SIMPSON HDU2 HOLDOWN @ OFFSET END OF WALL CONDITION @ FOUNDATION / SLAB-ON-GRADE CONNECTION / TERMINATION
f = FLOOR-TO-FLOOR OR FLOOR-TO-BEAM / HEADER / FRMG. SIMPSON HDU2 HOLDOWN CONDITION @ WOOD FRAMING WHERE OFFSET SHEARWALL OCCURS BEYOND CONTINUOUS ROD
a = TYPICAL FOUNDATION / SLAB-ON-GRADE CONNECTION / TERMINATION W/ LOWER TOP OF CONTINUOUS ROD TERMINATION DUE TO UNIT LAYOUT(S) ABOVE
c = CONTINUOUS ROD HOLDOWN TERMINATION @ WOOD OR STEEL BEAM, W/ LOWER TOP OF CONTINUOUS ROD TERMINATION DUE TO UNIT LAYOUT(S) ABOVE, RE: DETAILS FOR ADDT'L INFO (RE: SHOP DRAWINGS FOR STEEL TERMINATION DETAILS)

SHEARWALL HOLDOWN TYPE MARK #

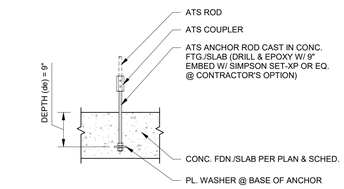
NOTE: REFER TO SHEARWALL ELEVATIONS FOR ADDT'L INFO ON SHEARWALL HOLDOWN BASE CONDITIONS & WHERE THEY TYPICALLY OCCUR.



TYPICAL ANCHOR TIEDOWN SYSTEM DETAIL @ EA. END OF SHEARWALLS

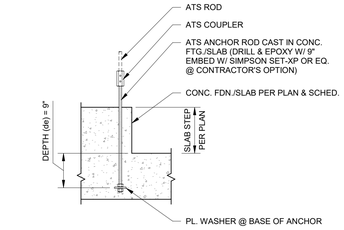
RE: PLANS FOR SHEARWALL LOCATIONS & SHEARWALL SCHED. ON THIS SHEET FOR ADDT'L INFO

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



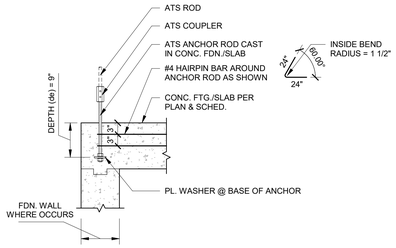
TYPICAL ATS ANCHOR @ INTERIOR SLAB LOCATIONS

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



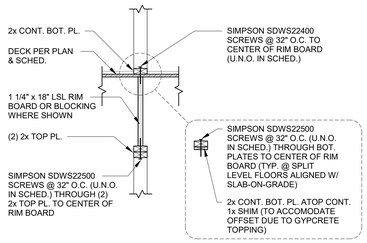
TYPICAL ATS ANCHOR @ STEP IN FOUNDATION SLAB

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



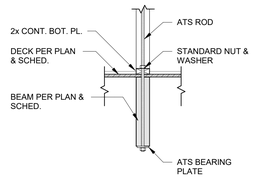
TYPICAL ATS CAST IN ANCHOR @ EDGE OF FOUNDATION SLAB

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



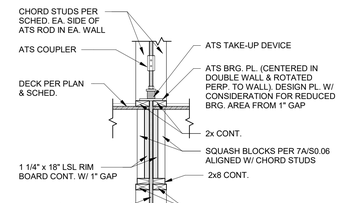
TYPICAL SHEARWALL SILL PL. ATTACHMENT @ 2x SILL

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



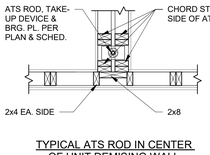
TYPICAL HOLDOWN ATOP WOOD BEAM

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



TYPICAL SINGLE ATS ROD @ DOUBLE SHEARWALLS

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



TYPICAL ATS ROD IN CENTER OF UNIT DEMISING WALL

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

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JOHN A. SCHWAGER
NUMBER E-PE-2005000258
PROFESSIONAL ENGINEER
04.11.23

KRUDWIG STRUCTURAL ENGINEERS, LLC
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A NEW RESIDENTIAL COMMUNITY AT::
TRILOGY
NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△ REVISIONS
1 23.0411 CITY COMMENTS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SHEARWALL SCHEDULE & DETAILS
SHEET NO. S0.05

4/11/2023 5:24:16 PM

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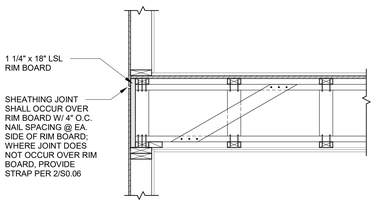
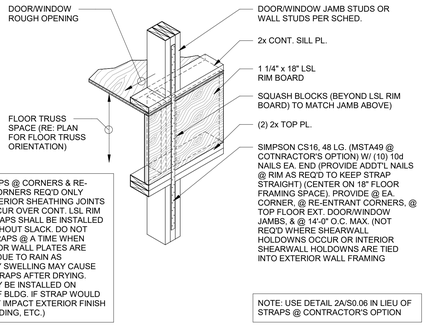


TYPICAL EXTERIOR SHEATHING JOINT

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

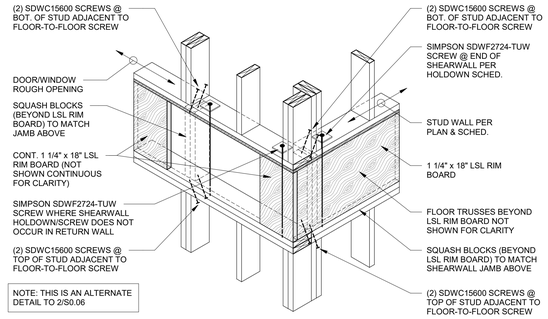


NOTE: STRAPS @ CORNERS & RE-ENTRANT CORNERS REQ'D ONLY WHERE EXTERIOR SHEATHING JOINTS DO NOT OCCUR OVER CONT. LSL RIM BOARD. STRAPS SHALL BE INSTALLED TIGHT & WITHOUT SLACK. DO NOT INSTALL STRAPS @ A TIME WHEN SUBFLOOR OR WALL PLATES ARE WET/DAMP DUE TO RAIN AS TEMPORARY SWELLING MAY CAUSE SLACK IN STRAPS AFTER DRYING. STRAPS MAY BE INSTALLED ON INTERIOR OF BLDG. IF STRAP WOULD NEGATIVELY IMPACT EXTERIOR FINISH (STUCCO, SIDING, ETC.)

NOTE: USE DETAIL 2A/S0.06 IN LIEU OF STRAPS @ CONTRACTOR'S OPTION

TYPICAL COIL STRAP @ EXT. JAMBS SUPPORTING ROOF FRAMING @ FLOOR DIRECTLY BELOW ROOF & FLOOR-TO-FLOOR TIES WHERE DETAIL 1/S0.06 IS NOT FOLLOWED

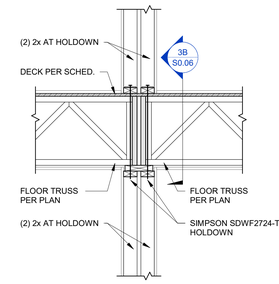
2 SECTION 3/4" = 1'-0"



NOTE: THIS IS AN ALTERNATE DETAIL TO 2/S0.06

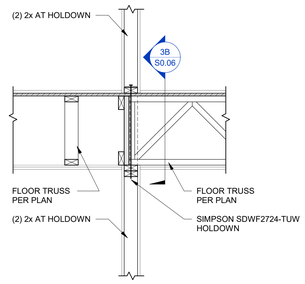
TYPICAL FLOOR-TO-FLOOR SCREW @ EXT. JAMBS SUPPORTING ROOF FRAMING @ FLOOR DIRECTLY BELOW ROOF & FLOOR-TO-FLOOR TIES WHERE DETAIL 1/S0.06 IS NOT FOLLOWED

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



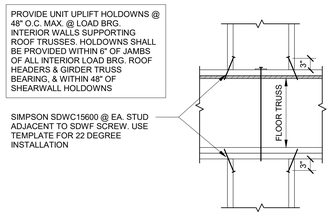
TYPICAL UNIT UPLIFT HOLDOWN DETAIL @ TOP FLOOR ROOF TRUSS BEARING WALLS

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



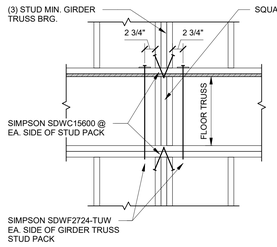
TYPICAL UNIT UPLIFT HOLDOWN DETAIL @ TOP FLOOR ROOF TRUSS BEARING WALLS

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



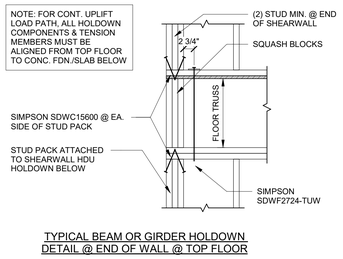
TYPICAL SIDE VIEW @ DOUBLE STUD SCREWS @ HOLDOWN

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



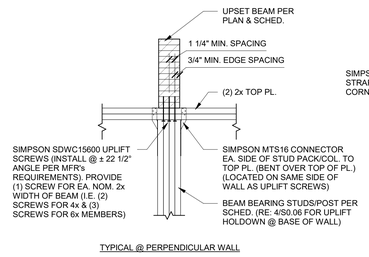
TYPICAL BEAM OR GIRDER TRUSS UPLIFT HOLDOWN DETAIL @ TOP FLOOR

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

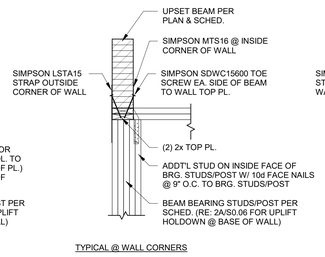


TYPICAL BEAM OR GIRDER HOLDOWN DETAIL @ END OF WALL @ TOP FLOOR

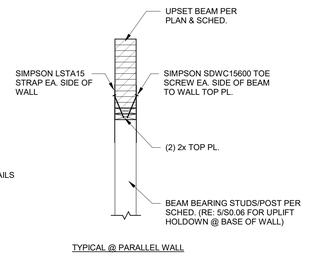
5 SECTION 3/4" = 1'-0"



TYPICAL @ PERPENDICULAR WALL



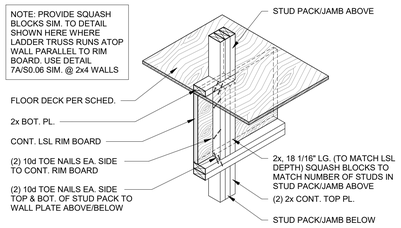
TYPICAL @ WALL CORNERS



TYPICAL @ PARALLEL WALL

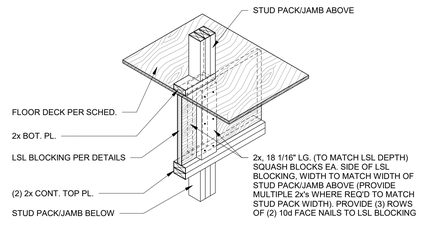
TYPICAL UPSET WOOD BEAM UPLIFT HOLDOWN @ BEAMS SUPPORTING ROOF TRUSS BEARING WALLS OR WHERE INDICATED

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



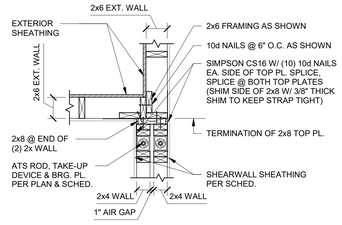
TYPICAL SQUASH BLOCK DETAIL @ CONT. RIM BOARD

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



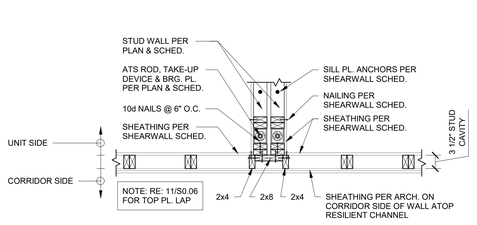
TYPICAL SQUASH BLOCK DETAIL @ LSL BLOCKING

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



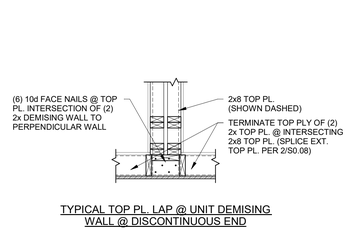
TYPICAL @ UNIT DEMISING WALL TRANSITION TO 2x6 EXT. WALL

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



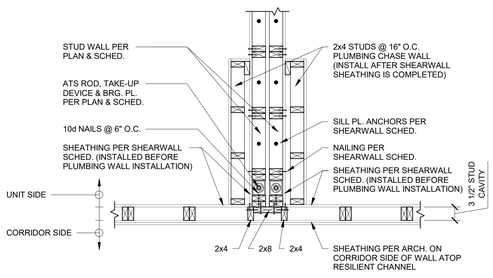
TYPICAL INTERSECTION OF UNIT DEMISING WALL& CORRIDOR WALL (SIM. @ EXT. WALL)

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



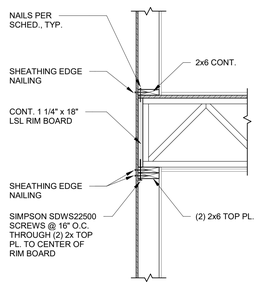
TYPICAL TOP PL. LAP @ UNIT DEMISING WALL @ DISCONTINUOUS END

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



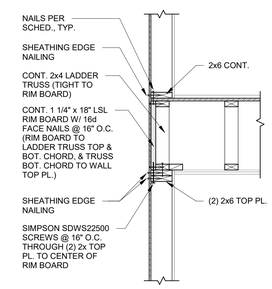
TYPICAL INTERSECTION OF UNIT DEMISING WALL& CORRIDOR WALL (SIM. @ EXT. WALL)

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



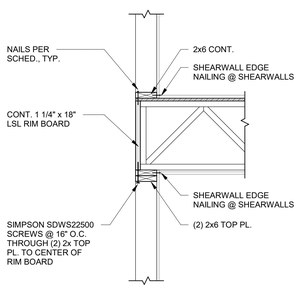
TYPICAL LATERAL NAILING @ EXT. WALL W/ TRUSS BRG.

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



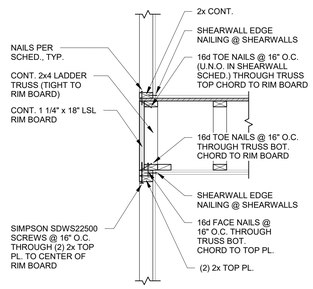
TYPICAL LATERAL NAILING @ EXT. WALL PARALLEL TO TRUSS BRG.

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



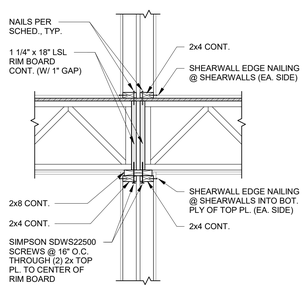
TYPICAL LATERAL NAILING @ ONE-SIDED WALL W/ TRUSS BRG.

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



TYPICAL LATERAL NAILING @ UNIT DEMISING WALL OR ONE-SIDED WALL PARALLEL TO TRUSS BRG.

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



TYPICAL LATERAL NAILING @ DOUBLE UNIT DEMISING WALLS W/ TRUSS BRG.

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

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ENERGY SERVICES
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STATE OF MISSOURI
JOHN A. GRIFFITH
NUMBER PE-2005000258
PROFESSIONAL ENGINEER
04.11.23

KRUDWIG STRUCTURAL ENGINEERS, LLC
11200 Corporate Ave., Suite 110 Lenexa, Kansas 66219

A NEW RESIDENTIAL COMMUNITY AT::

TRILOGY

NW WARD RD. | LEE'S SUMMIT, MO

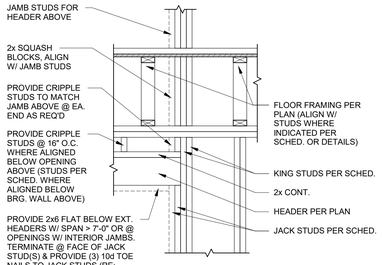
DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SHEARWALL & FRAMING DETAILS
SHEET NO. S0.06

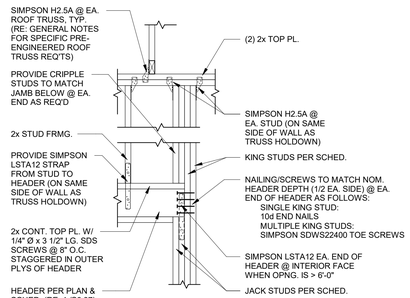
4/11/2023 5:24:22 PM

ARCH E1.30" x 42"



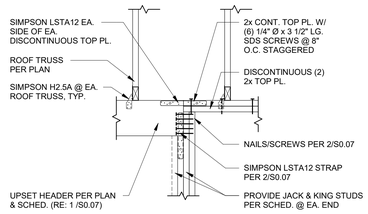
TYPICAL HEADER DETAIL

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



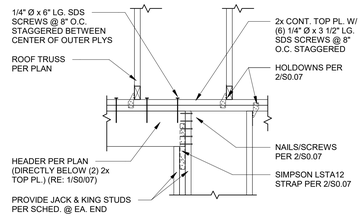
TYPICAL HEADER DETAIL @ ROOF TRUSS BRG.

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



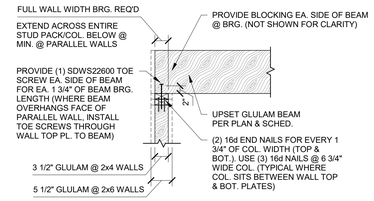
TYPICAL HEADER DETAIL @ DISCONTINUOUS TOP PL. @ ROOF

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



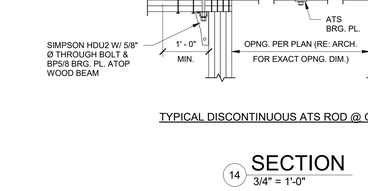
TYPICAL HEADER DETAIL @ ROOF TRUSS BRG. LOCATIONS W/ HEADER DIRECTLY BELOW (2) 2x TOP PL.

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



TYPICAL GLULAM BEAM &/OR COLUMN DETAIL

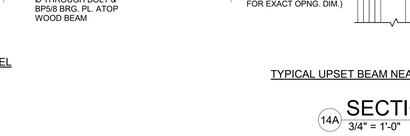
5 SECTION 3/4" = 1'-0"



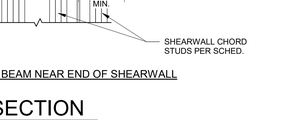
TYPICAL GLULAM BEAM BEARING DIRECTLY ON GLULAM OR PSL COLUMN DETAIL

NOTES:
1. RE: S/S0.07 WHERE COL. IS SET IN BTWN. WALL TOP & BOT. PLATES.
2. PROVIDE STRAPS PER 6/S0.07 @ DISCONTINUOUS WALL TOP PLATES.

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



ELEVATION VIEW



PLAN VIEW

PLAN VIEW @ CORNER

PLAN VIEW @ END OF WALL

TYPICAL STRAPS @ DISCONTINUOUS TOP PL. @ COL.

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

TYPICAL MULTI-PLY EXTERIOR ROOF HEADER WHERE GEOMETRY DOES NOT ALLOW 2x PL. BELOW HEADER

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

TYPICAL HOLE THROUGH LEDGER

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

TYPICAL @ DISCONTINUOUS SHEARWALL SHEATHING

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

TYPICAL @ SHEARWALL SHEATHING CONTINUOUS PAST NON-LOAD BRG. WALL

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

TYPICAL SHEARWALL SHEATHING JOINT

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

TYPICAL SHEARWALL @ WALL STUD SIZE TRANSITION

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

TYPICAL HDU FLOOR-TO-FLOOR HOLDOWN

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

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

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

TYPICAL DISCONTINUOUS ATS ROD @ GARAGE LEVEL

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

TYPICAL UPSET BEAM NEAR END OF SHEARWALL

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

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STATE OF MISSOURI
JOHN A. KRUDWIG
NUMBER PE-2005000258
PROFESSIONAL ENGINEER
04.11.23

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A NEW RESIDENTIAL COMMUNITY AT::
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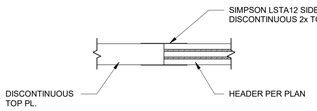
DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SHEARWALL & FRAMING DETAILS
SHEET NO. S0.07

4/11/2023 5:24:27 PM

ARCH E1.30" x 42"

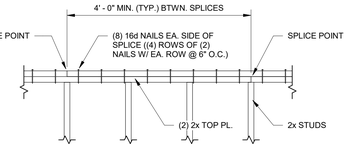


TYPICAL SPLICE @ DISCONTINUOUS TOP PL.

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

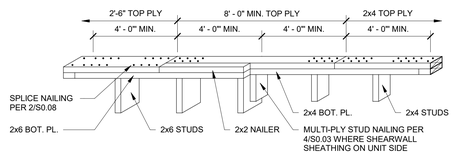
NOTE: INSTALL ENDS OF PL. TIGHT @ SPLICE FOR COMPRESSION

NOTE: PROVIDE TENSION STRAPS PER 1/S0.08 @ LOCATIONS WHERE TOP PL. SPLICE IS NOT STAGGERED 4'-0" MIN. & WHERE PLUMBING / ELECTRICAL BORES OR NOTCHES TOP PL. OVER THE ALLOWABLE DIMENSIONS SHOWN IN DETAIL 3/S0.08



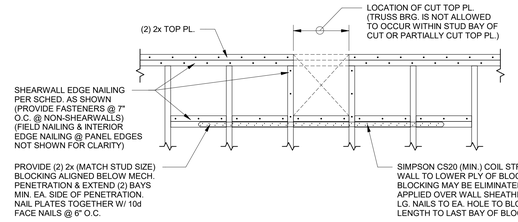
TYPICAL TOP PL. SPLICE

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



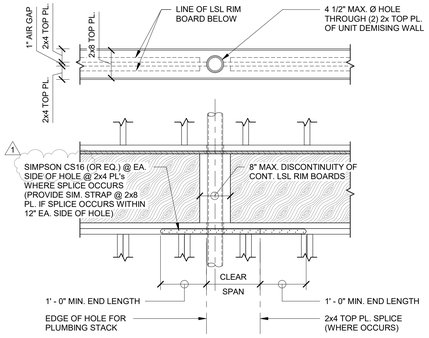
TYPICAL TOP PL. SPLICE @ WALL SIDE TRANSITION

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



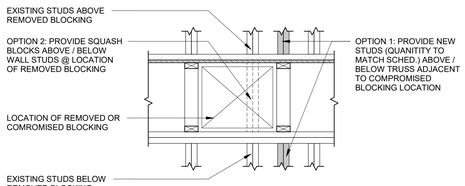
TYPICAL TOP PL. SPLICE @ SHEARWALL OR BRG. WALL DUE TO MECH. PENETRATION

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



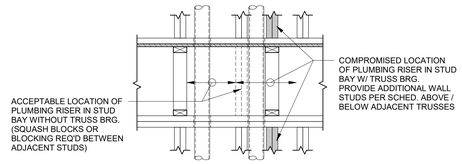
TYPICAL @ PLUMBING STACK IN DOUBLE UNIT DEMISING WALL

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



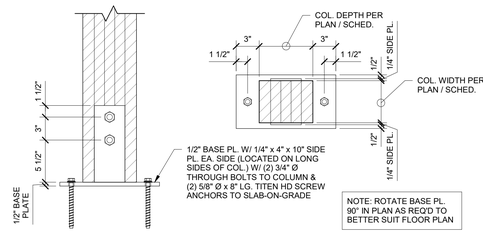
TYPICAL @ WHERE MECH. DUCT INTERRUPTS LSL / LSL BLOCKING

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



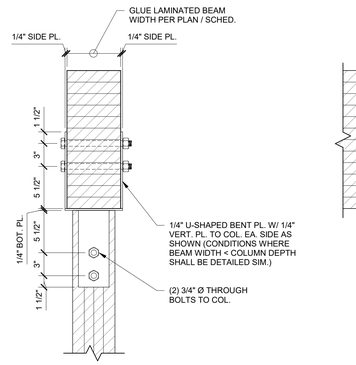
TYPICAL @ WHERE PLUMBING INTERRUPTS TOP PL.

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

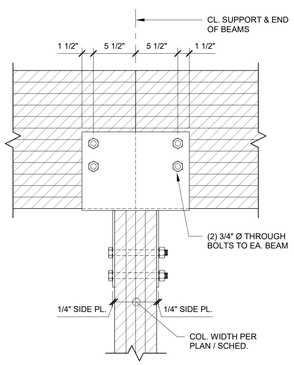


CUSTOM STEEL BASE PLATE @ GLUE LAMINATED COLUMNS (U.N.O.)

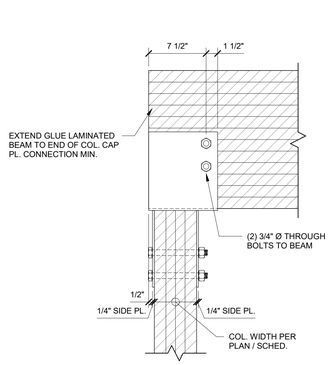
6 SECTION 1 1/2" = 1'-0"



TYPICAL COL. CAP CONNECTION



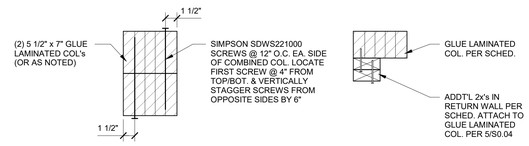
TYPICAL COL. CAP @ INTERMEDIATE SUPPORT



TYPICAL COL. CAP @ END SUPPORT

CUSTOM STEEL CAP PLATE & GLUE LAMINATED COLUMNS (U.N.O. RE: SEPARATE DETAILS @ CLUB FOR GLUE LAMINATED BEAMS & STEEL COL's)

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



TYPICAL @ COMBINED GLUE LAMINATED COLUMNS

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

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SHEET NO. S0.08

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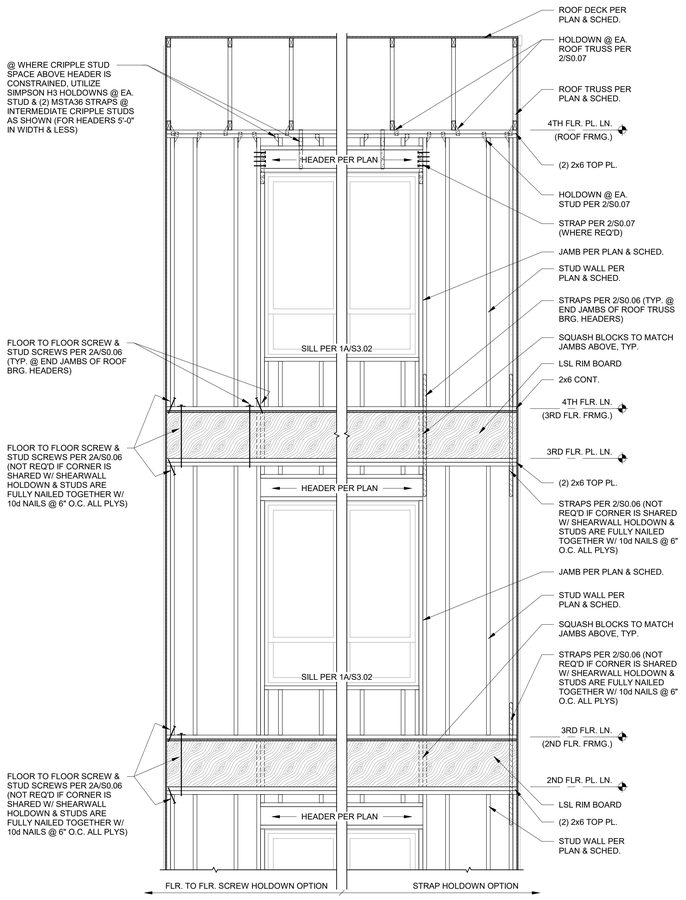
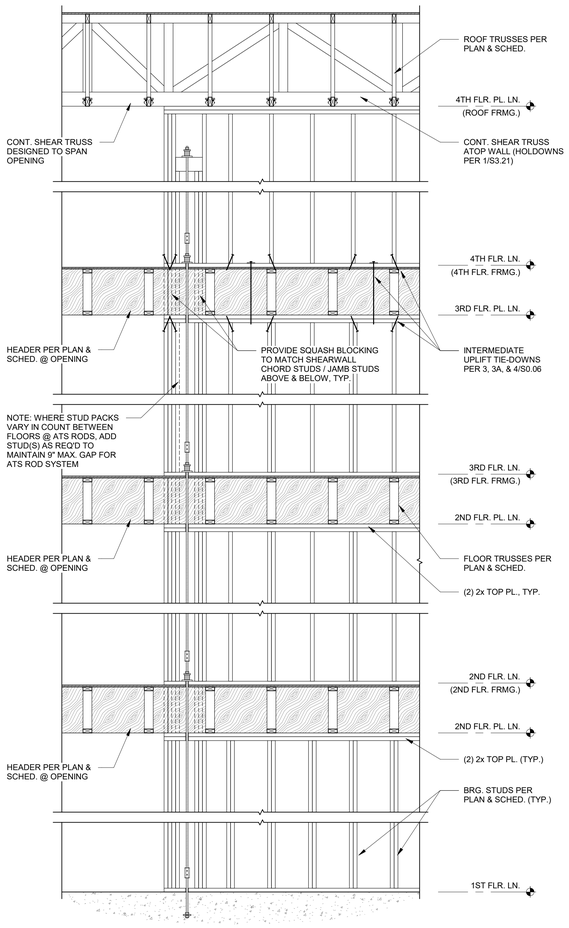
ARCH E1.30" x 42"



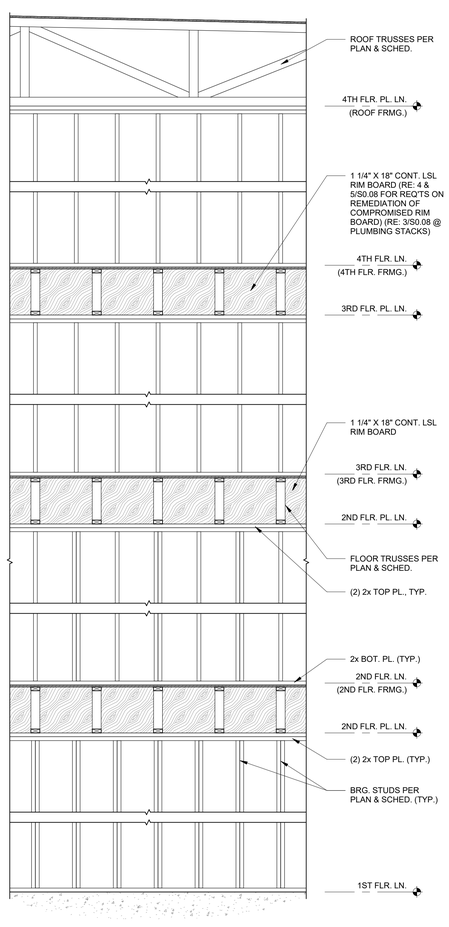
TYPICAL EXTERIOR ELEVATION OF STRUCTURAL BAY OPTIONS

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



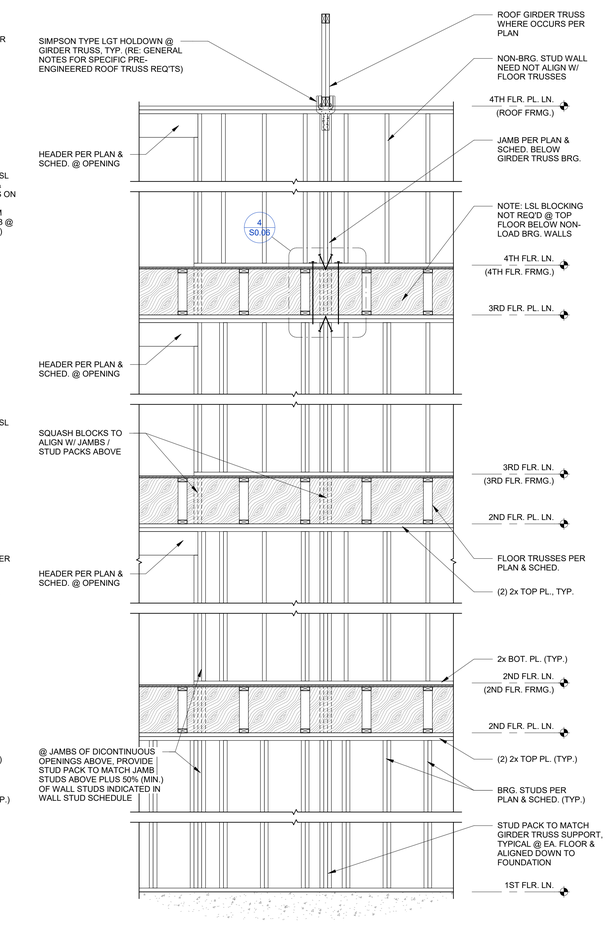
TYPICAL CORRIDOR BRG. WALL ELEVATION

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



TYPICAL UNIT DEMISING WALL ELEVATION

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



TYPICAL INTERIOR BRG. WALL ELEVATION

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

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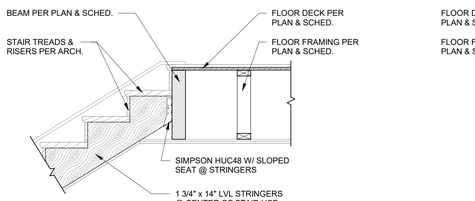
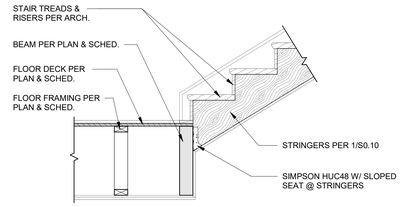
ARCH E1.30" x 42"



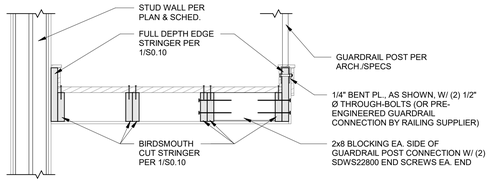
TYPICAL STAIR & STRINGER CONNECTION DETAIL

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



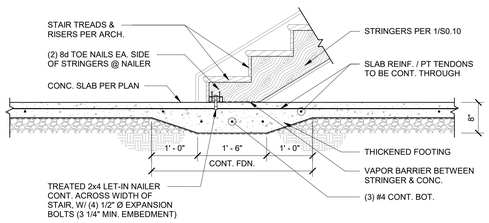
TYPICAL STAIR STRINGER CONNECTION DETAIL

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



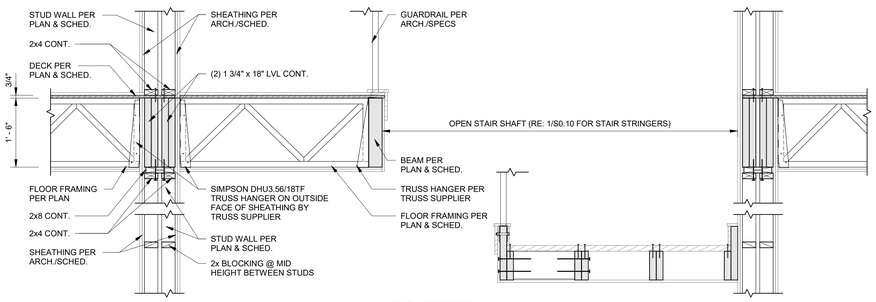
TYPICAL STAIR RUN THROUGH SECTION

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



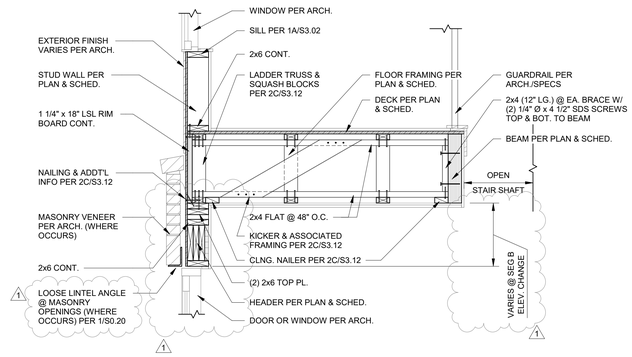
TYP. THICKENED SLAB @ INTERIOR STAIRS

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



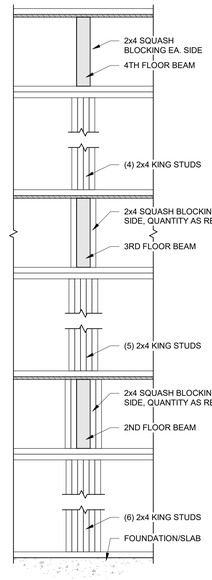
TYP. INTERIOR STAIR SECTION

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



TYP. INTERIOR STAIR SECTION @ EXTERIOR WALL

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



TYP. INTERIOR STAIR BEAM JAMBS/STUD PACKS

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

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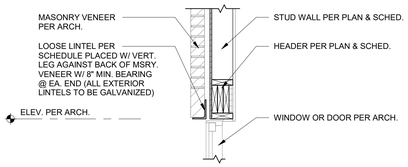
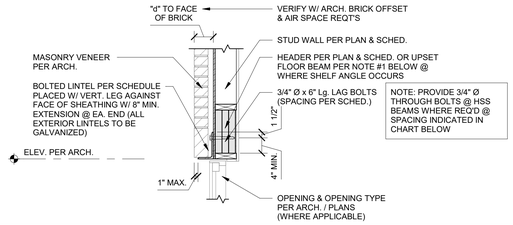
ARCH E1.30" x 42"



LOOSE LINTEL SCHEDULE		
FOR OPENINGS	GALV. ANGLE (WOOD)	GALV. ANGLE (CONC.)
LESS THAN 6'-0"	L5 x 3 1/2 x 5/16 (LLV)	N/A
6'-0" < OPNG. < 9'-0"	N/A	N/A

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

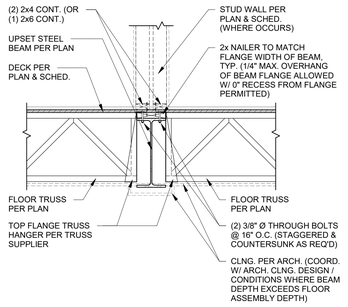


BOLTED LINTEL SCHEDULE					
ANGLE SIZE	"d" DIMENSION	MAX. BRICK HEIGHT	LAG BOLT SPACING	USE	NOTES
L7 x 4 x 3/8 (LLV)	4" < d ≤ 5"	10' - 0"	24" O.C.	@ OPNG. HEADERS	
L7 x 4 x 3/8 (LLV)	4" < d ≤ 5"	30' - 0"	12" O.C.	@ SHELF ANGLES	1.

NOTES:

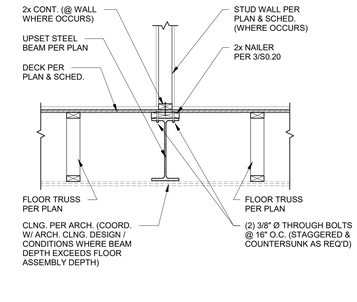
1. SHELF ANGLE OCCURS @ 3RD FLOOR LEVEL TO ACCOUNT FOR EXPANSION & CONTRACTION RELATIVE TO OVERALL WOOD SHRINKAGE @ WHERE BRICK VENEER OCCURS @ ALL STORIES ON A GIVEN PORTION OF THE EXTERIOR FACADE. PROVIDE 5 1/2" x 18" GLULAM BACK-UP FOR LAG BOLT ATTACHMENT IN LIEU OF USING LSL RIM BOARD & SQUASH BLOCKING, TYP. PROVIDE EXPANSION JOINT @ WHERE SHELF ANGLE OCCURS, SIZE RELATIVE TO BRICK EXPANSION VS. WOOD SHIRNKAGE CONTRACTION, COORD. W/ ARCH.

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



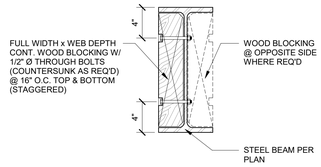
TYPICAL INTERIOR STEEL BEAM SUPPORTING FLOOR TRUSSES

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



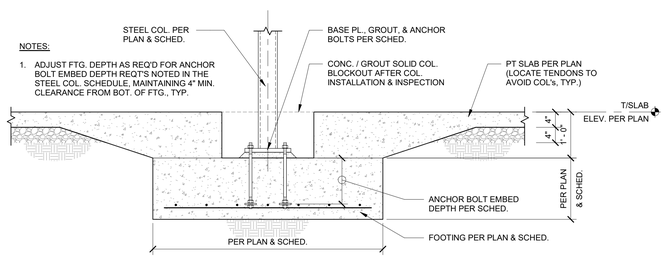
TYPICAL INTERIOR STEEL BEAM PARALLEL TO FLOOR TRUSSES / SUPPORTING WALL ABOVE

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



TYPICAL WIDE FLANGE BEAM WEB BLOCKING WHERE REQ'D / INDICATED

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

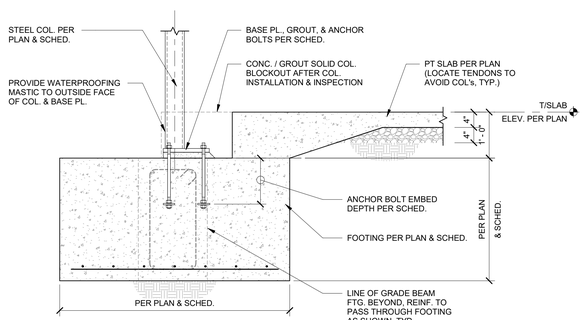


NOTES:

1. ADJUST FTG. DEPTH AS REQ'D FOR ANCHOR BOLT EMBED DEPTH REQ'T'S NOTED IN THE STEEL COL. SCHEDULE, MAINTAINING 4" MIN. CLEARANCE FROM BOT. OF FTG., TYP.

TYP. INTERIOR COLUMN FOOTING / FOUNDATION

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



TYP. EXTERIOR COLUMN FOOTING / FOUNDATION

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

STEEL BEAM STIFFENER PLATE NOTES:

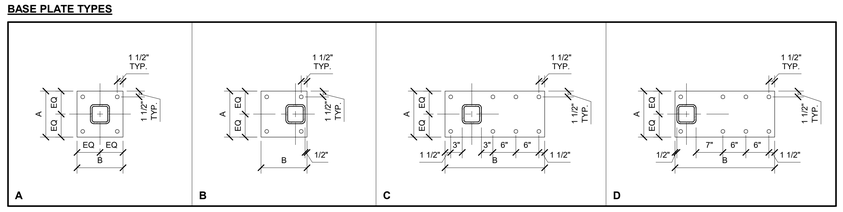
1. USE 1/2" STIFFENER PLATES WHERE THE FOLLOWING OCCURS:
   a. STEEL BEAM SUPPORTS COL. POINT LOAD.
   b. STEEL BEAM RUNNING CONTINUOUS OVER COL. ABOVE FTG. EQUAL TO F-4.0 OR GREATER IN SIZE.
   c. STEEL BEAM SUPPORTS INTERSECTING STEEL BEAM.

STEEL COLUMN SCHEDULE					
COLUMN SIZE	LOCATION	BASE PL. SIZE (t x A x B)	BASE PL. TYPE	ANCHOR BOLTS	EMBEDMENT
HSS 5 x 5 x 1/2"	INTERIOR	1" x 12" x 12"	A	(4) 3/4" Ø	12"
HSS 5 x 5 x 1/2"	EXTERIOR	1" x 12" x 12"	B	(4) 3/4" Ø	18"
3-1/2" Ø xS PIPE COL.	INTERIOR	1" x 12" x 12"	A	(4) 3/4" Ø	12"
4" Ø xS PIPE COL.	INTERIOR	1" x 12" x 12"	A	(4) 3/4" Ø	12"
5" Ø xS PIPE COL.	INTERIOR	1" x 12" x 12"	A	(4) 3/4" Ø	12"
3" Ø xxS PIPE COL.	INTERIOR	1" x 12" x 12"	A	(4) 3/4" Ø	12"
4" Ø xxS PIPE COL.	INTERIOR	1" x 12" x 12"	A	(4) 3/4" Ø	12"
HSS 5 x 5 x 1/2" @ BRACE	INTERIOR	1 1/2" x 12" x 26"	C	(8) 3/4" Ø	18"
HSS 5 x 5 x 1/2" @ BRACE	EXTERIOR	1 1/2" x 12" x 26"	D	(8) 3/4" Ø	18"

NOTES:

1. COLUMNS SHALL BE LOCATED & ORIENTED TO FIT WITHIN WALLS WHERE APPLICABLE (UNLESS SHOWN OTHERWISE PER PLAN).
2. BASE PL's SHALL BE ORIENTED TOWARD THE INTERIOR OF THE BUILDING @ EXTERIOR COL's SO THAT BASE PL. IS NOT EXPOSED PAST THE EDGE OF SLAB.
3. ALL BASE PL's TO SET ATOP 1 1/2" NON-SHRINK GROUT (U.N.O.).
4. ALL xS & xxS PIPE COL. BASE PL's NOTED IN THIS SCHEDULE OCCUR @ PT SLAB-ON-GRADE LOCATIONS.

BASE PLATE TYPES



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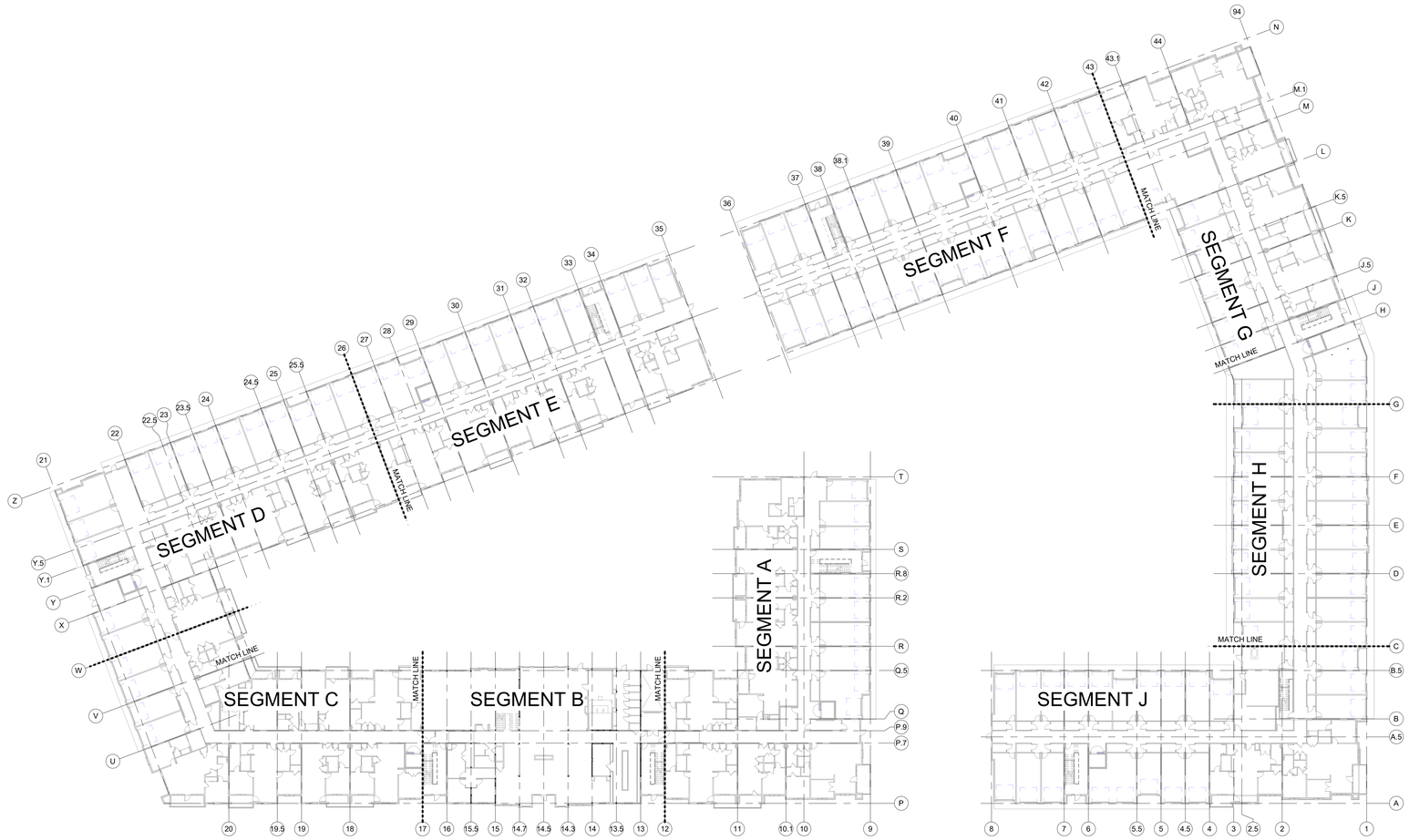

1 BLDG's 1 & 2 - OVERALL GRID REFERENCE PLAN
1" = 30'-0"

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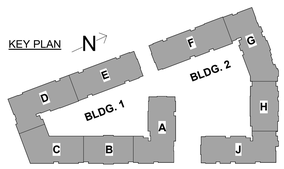
KEY PLAN N



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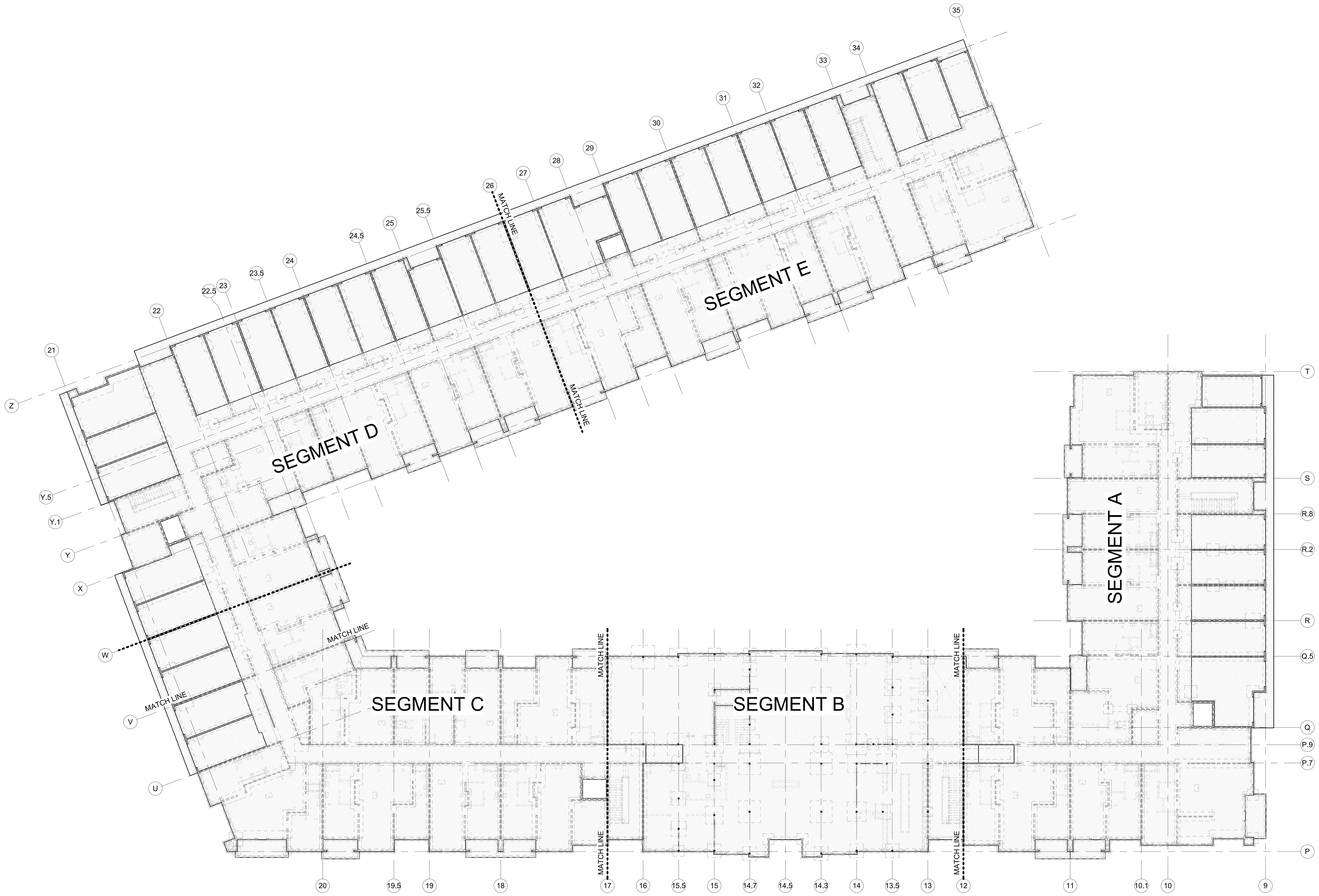
ARCH E1 30" x 42"



1 BLDG 1 - OVERALL 1ST FLOOR PT SLAB PLAN
1" = 20'-0"

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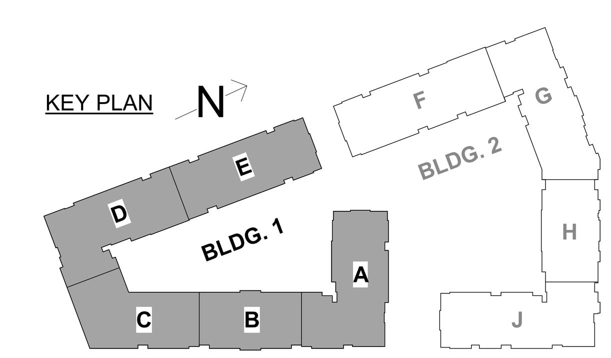
KEY PLAN



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S2.00

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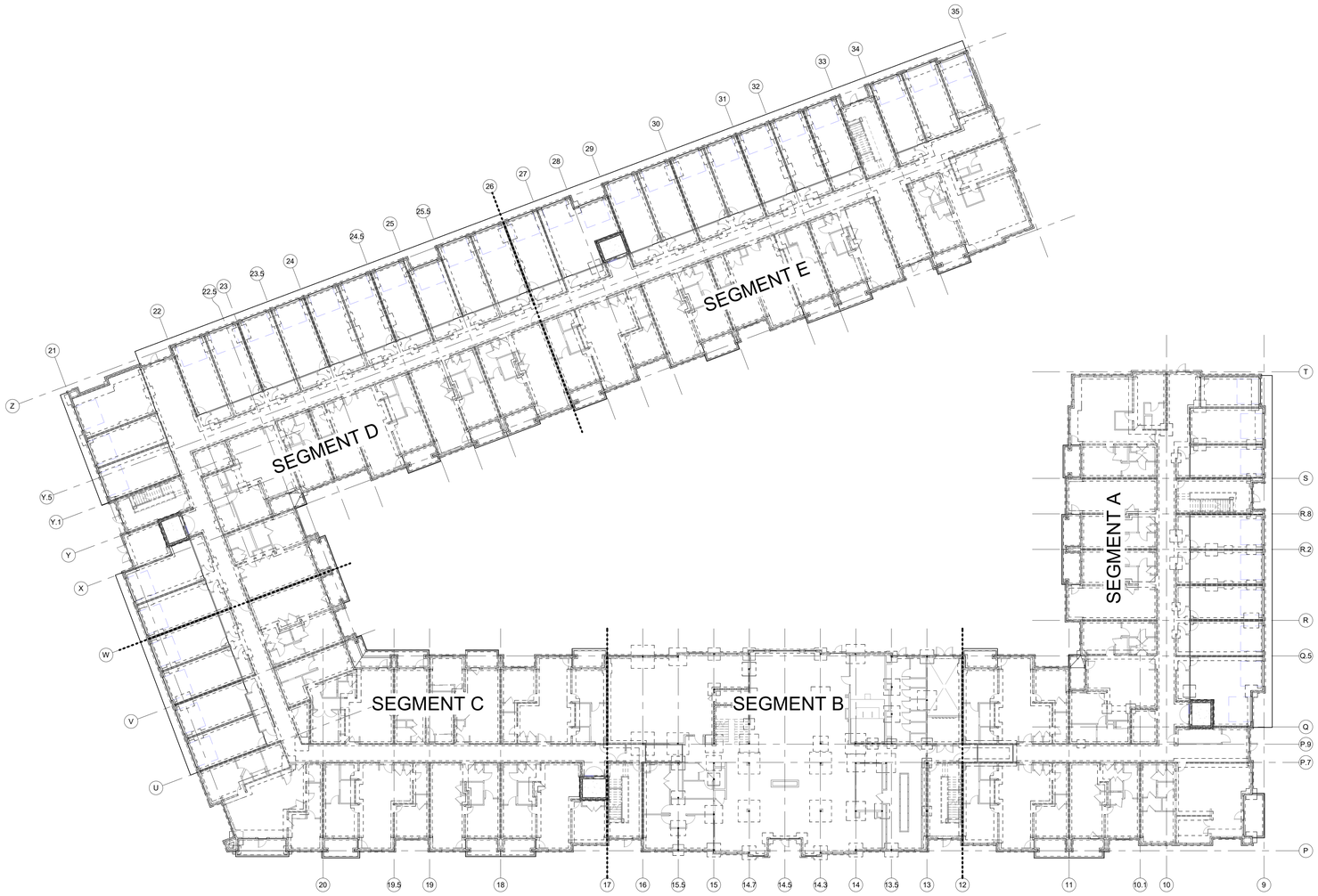
ARCH E1.30" x 42"



1 BLDG 1 - OVERALL 1ST FLOOR FOUNDATION PLAN N
1" = 20'-0"

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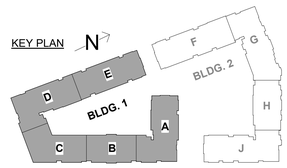

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ARCH E1.30" x 42"

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

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NUMBER PE-2005000228
PROFESSIONAL ENGINEER
04.11.23

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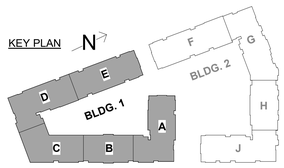
11200 Corporate Ave., Suite 110 Lenexa, Kansas 66219

A NEW RESIDENTIAL COMMUNITY AT::
TRILOGY
NW WARD RD. | LEE'S SUMMIT, MO

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△REVISIONS

KEY PLAN N



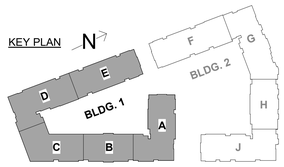
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME BLDG 1 - OVERALL 2ND FLOOR FRAMING PLAN
SHEET NO. S2.02

4/11/2023 5:25:34 PM

1 BLDG 1 - OVERALL 3RD FLOOR FRAMING PLAN
1" = 20'-0"

N

KEY PLAN N



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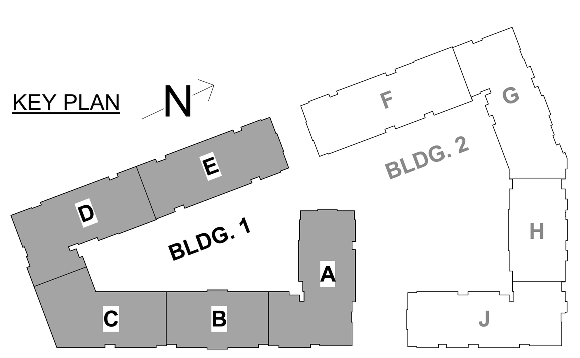
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME
BLDG 1 - OVERALL 3RD FLOOR FRAMING PLAN
SHEET NO.
S2.03

ARCH E1.30" x 42"
4/11/2023 5:25:38 PM

1 BLDG 1 - OVERALL 4TH FLOOR FRAMING PLAN N
1" = 20'-0"

KEY PLAN N



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04.11.23

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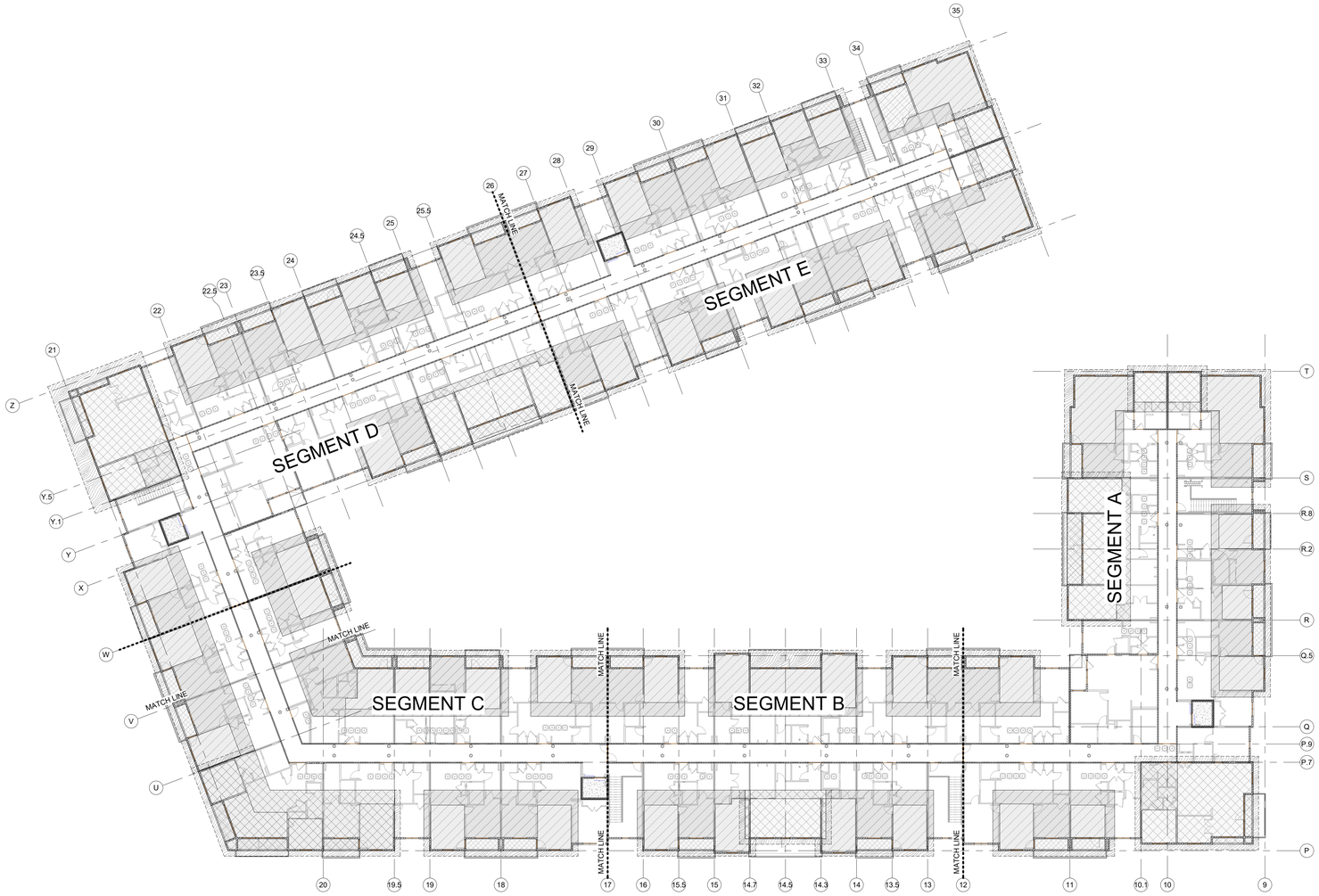
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
BLDG 1 - OVERALL 4TH FLOOR FRAMING PLAN
SHEET NO.
S2.04

ARCH E1 30" x 42"
4/11/2023 5:25:42 PM

ARCH E1.30" x 42"



1 BLDG 1 - OVERALL ROOF FRAMING PLAN
1" = 20'-0"

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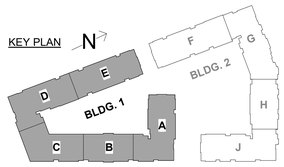
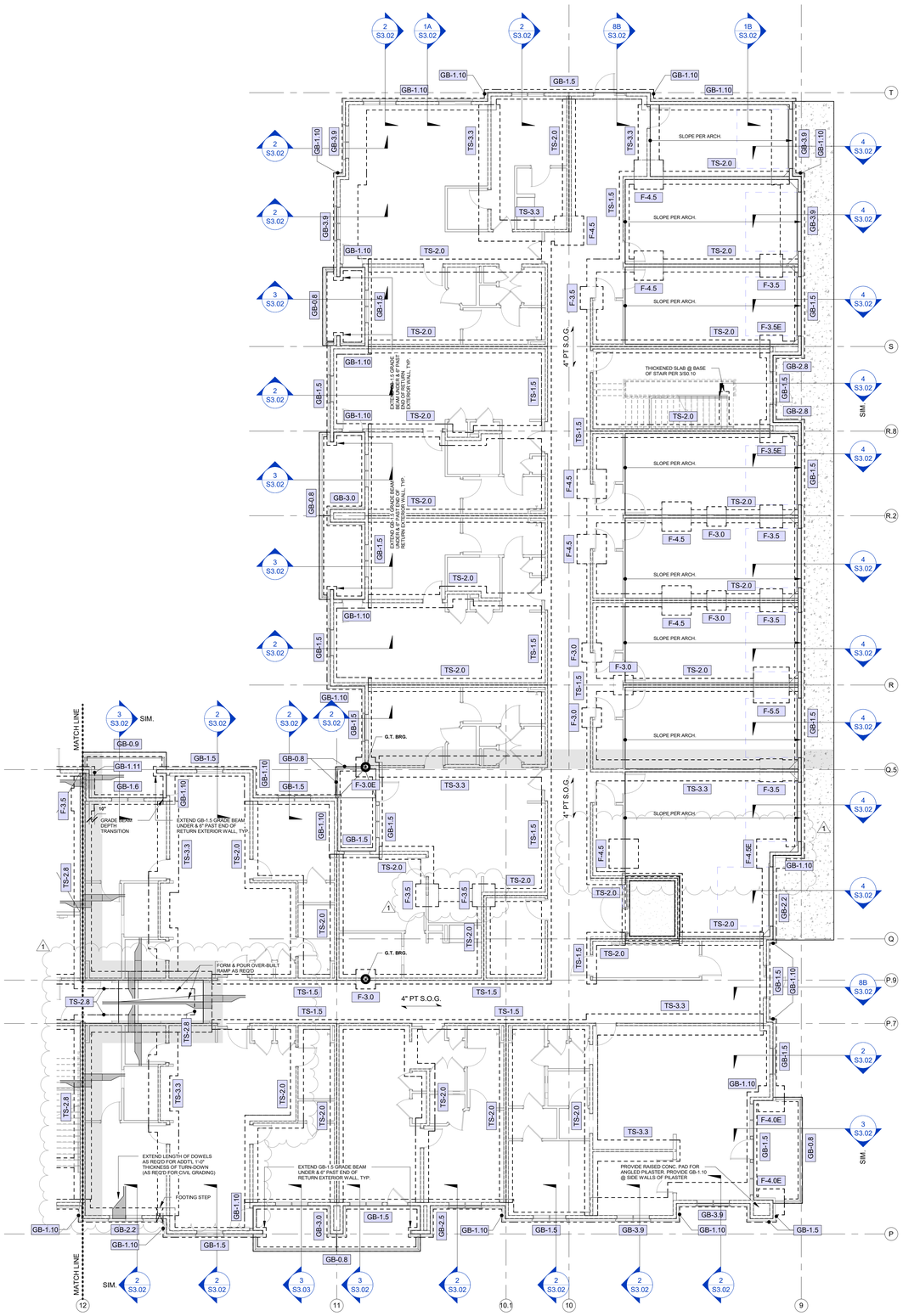
KEY PLAN N



JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME BLDG 1 - OVERALL ROOF FRAMING PLAN
SHEET NO. S2.05

4/11/2023 5:25:46 PM

ARCH E1.30" x 42"



1 SEGMENT A - 1ST FLOOR FOUNDATION PLAN
1/8" = 1'-0"

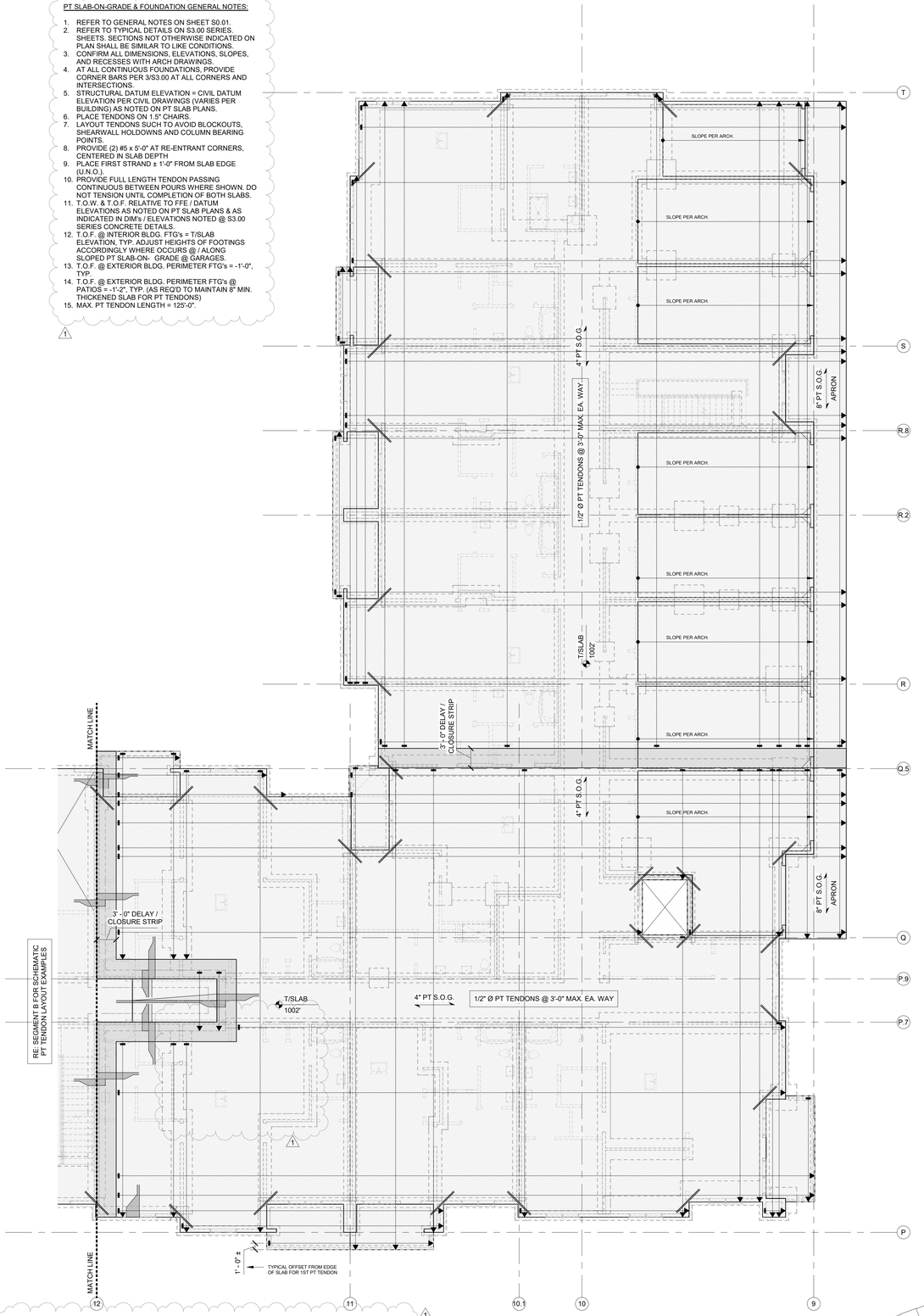
NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

COL./STUD PACK OPTIONS BY FTG. SIZE (1ST FLR. / BASEMENT)

FOOTING	GLULAM COL's (28F-E1 SP/SP (U))	STUD PACKS	A53 Gr. B xS COL's	A53 Gr. B xxS COL's
F-2.5	3 1/2" x 5 1/2"	(3) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.0	3 1/2" x 5 1/2"	(4) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.5	3 1/2" x 5 1/2"	(5) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.0	3 1/2" x 7" --OR-- 5 1/2" x 5 1/2"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.5	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.0	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.5	5 1/2" x 7"	N/A	4" Ø xS PIPE	3" Ø xxS PIPE
F-6.0	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE
F-6.5	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

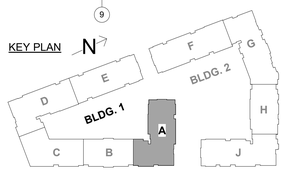
1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES. SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".



2 SEGMENT A - 1ST FLOOR PT SLAB PLAN
1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

KEY PLAN



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04.11.23

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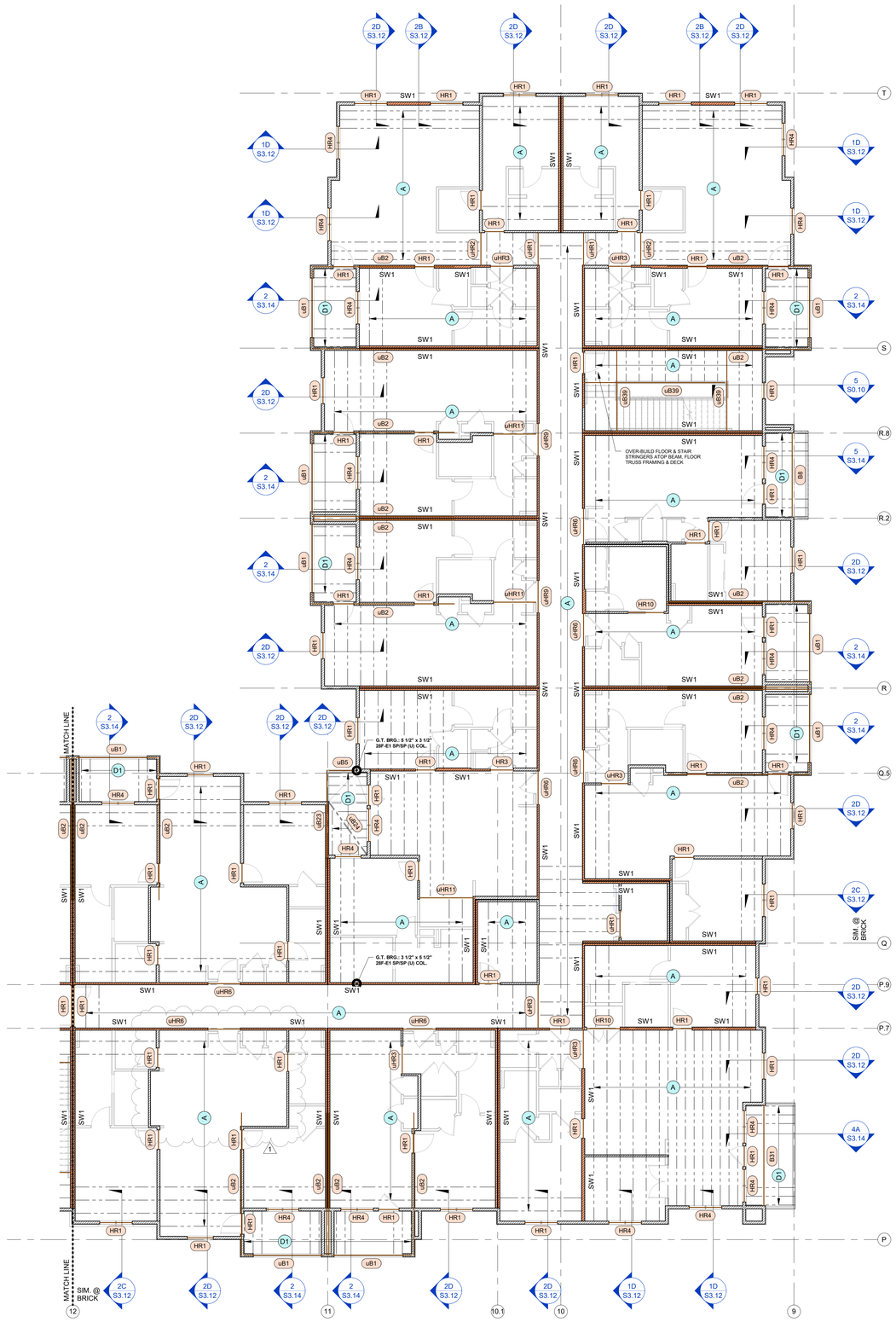
1 23 0411 CITY COMMENTS

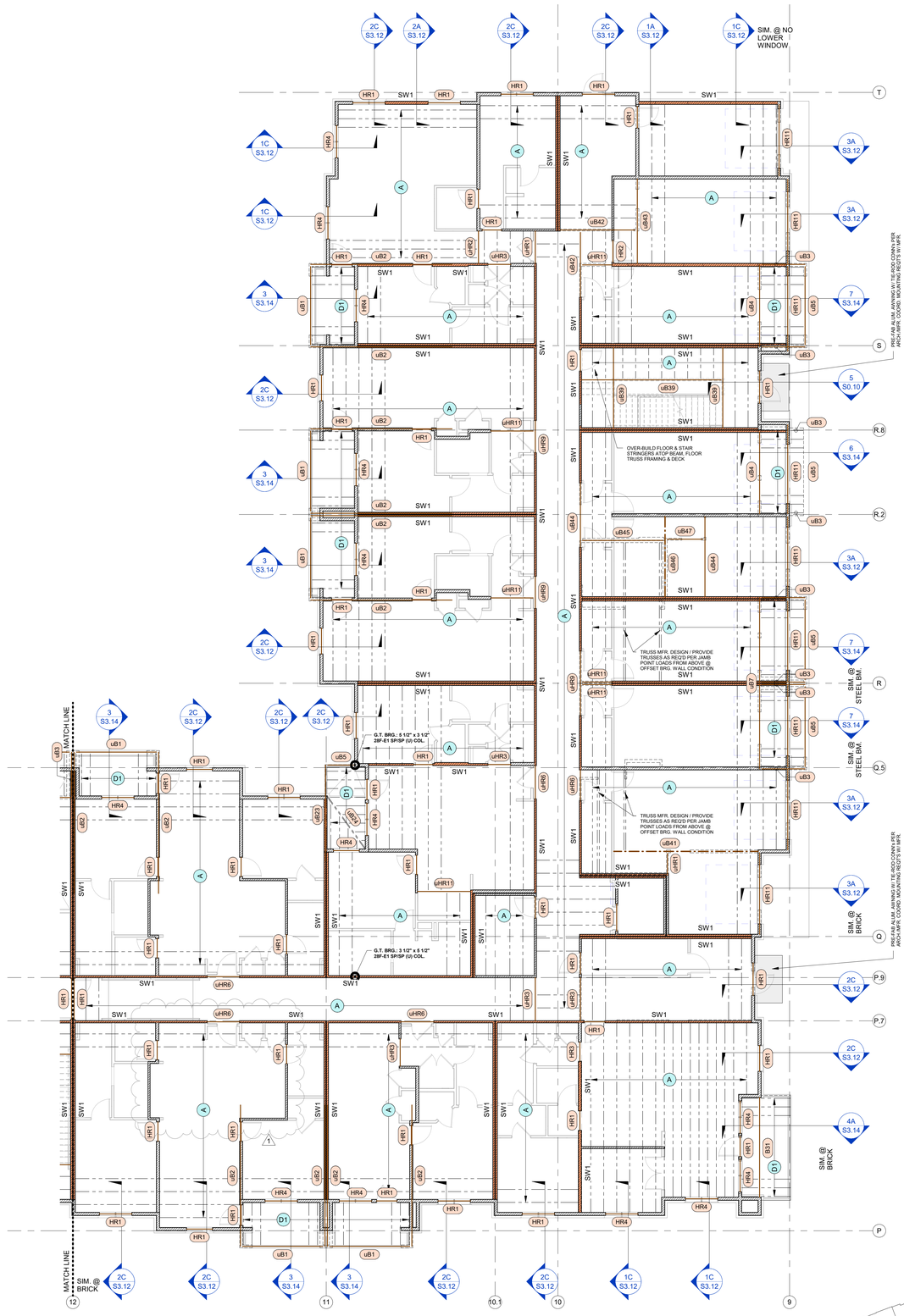
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (A) 1ST FLOOR PT SLAB & FDN. PLANS
SHEET NO. S2.06

4/11/2023 5:26:02 PM

ARCH E1.30" x 42"

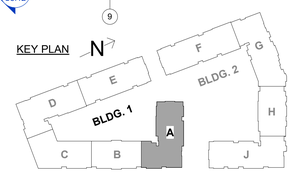


1 SEGMENT A - 3RD FLOOR FRAMING PLAN
1/8" = 1'-0"



2 SEGMENT A - 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

KEY PLAN N



GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

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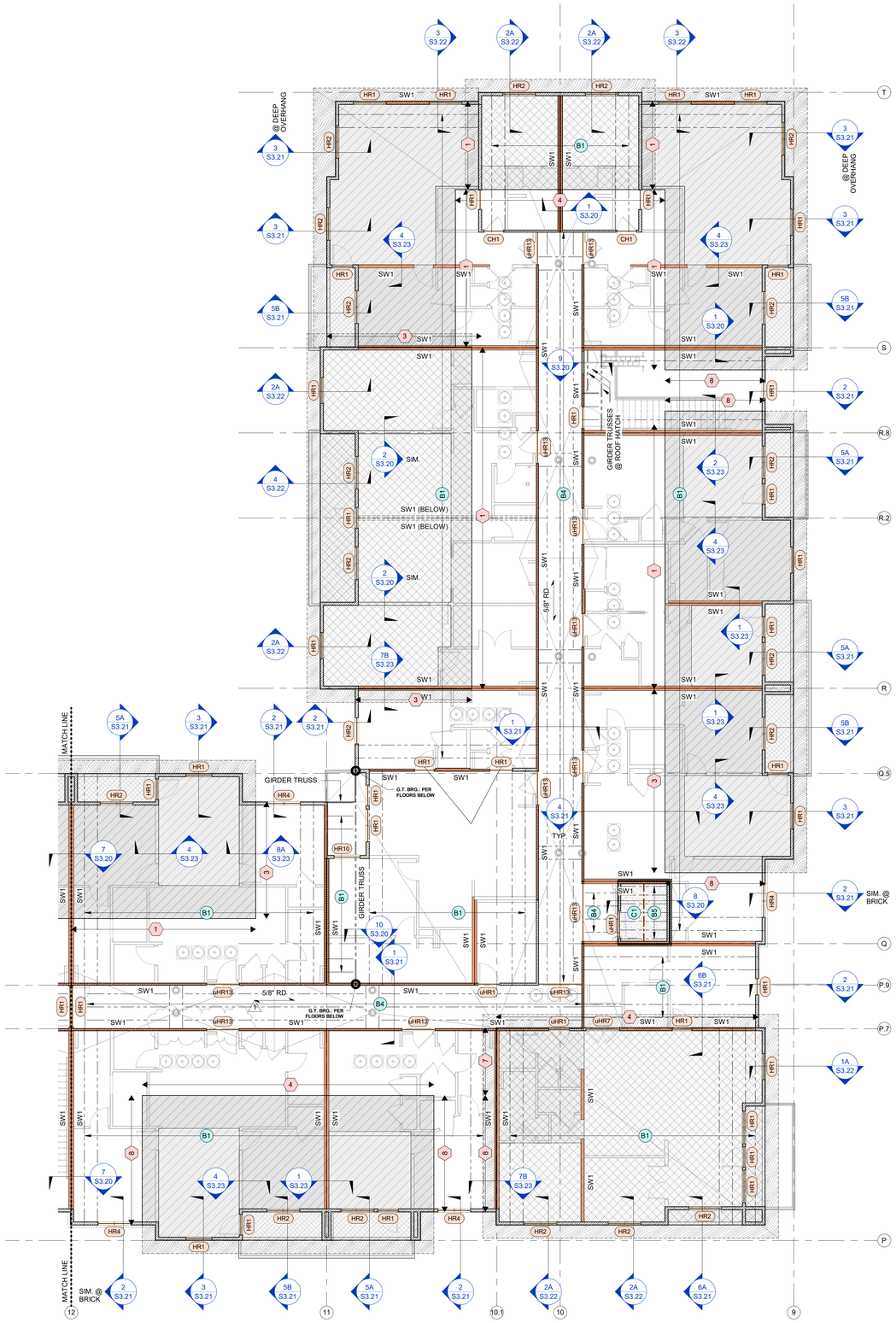
1 23 0411 CITY COMMENTS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
SEG (A) 2ND & 3RD FLOOR FRAMING PLANS
SHEET NO.
S2.07

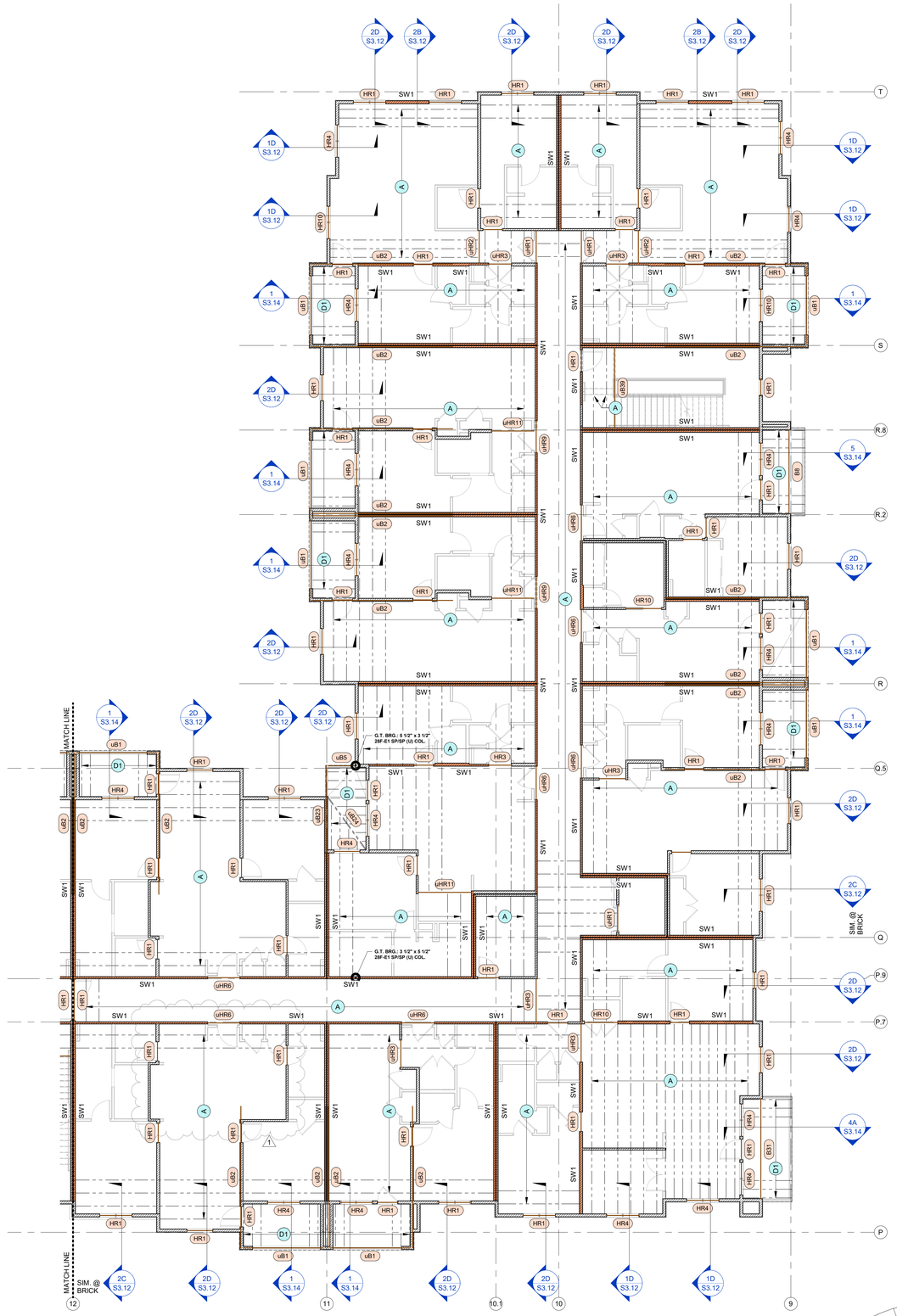
4/11/2023 5:26:24 PM

ARCH E1 30" x 42"



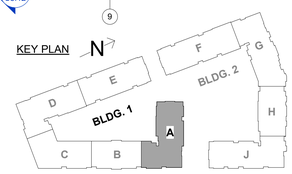
1 SEGMENT A - ROOF FRAMING PLAN
1/8" = 1'-0"

NOTES:
1. REFER TO SNOW DRIFT LOADING DIAGRAMS ON SHEET S0.02.
2. RE: ARCH. DWG's FOR ALTERNATING TREAD DEVICE / ROOF ACCESS HATCH LOCATIONS & COORD. W/ STAIR ORIENTATIONS AS REQ'D.



2 SEGMENT A - 4TH FLOOR FRAMING PLAN
1/8" = 1'-0"

KEY PLAN N



GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.
3. REVISED / UPDATED ROOF FRAMING & ASSOCIATED SECTION DETAILS.

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1 23 0411 CITY COMMENTS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
SEG (A) 4TH FLOOR & ROOF FRAMING PLANS
SHEET NO.
S2.08

4/11/2023 5:26:43 PM

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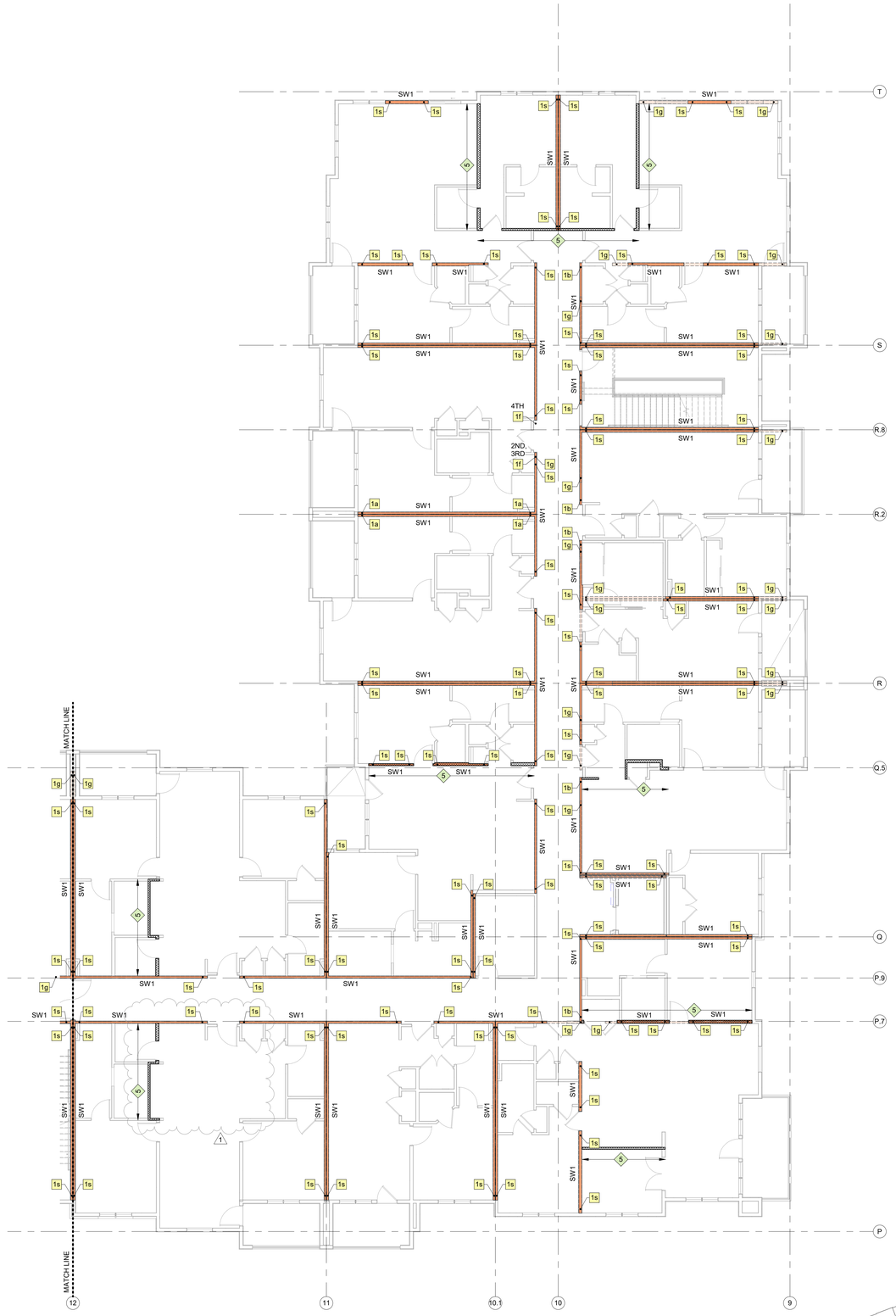
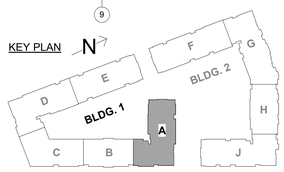


1 SEGMENT A - SHEARWALL / HOLDOWN PLAN
1/8" = 1'-0"

NOTES:
1. SHEARWALL PLANS ARE SHOWN @ 4TH FLOOR FRAMING (3RD FLR. LN.) W/ 2ND (1ST FLR. LN.) & 1ST (0 BSMT. LN.) FLOOR FRMG. SHEARWALL UNDERLAYS FOR REFERENCE / COORDINATION.
2. RE: BLDG. 1 (SEGMENTS D / E) & BLDG. 2 (SEGMENTS G / H / J) SHEARWALL ELEVATIONS FOR TYPICAL CONDITIONS WHERE FLOOR-TO-FLOOR OR FLOOR-TO-BEAM HOLDOWNS ARE REQ'D.
3. RE: DETAILS 1A & 1B FOR HOLDOWNS @ GARAGE PORTAL FRAMES @ UNIT BLDG's.

KEY PLAN



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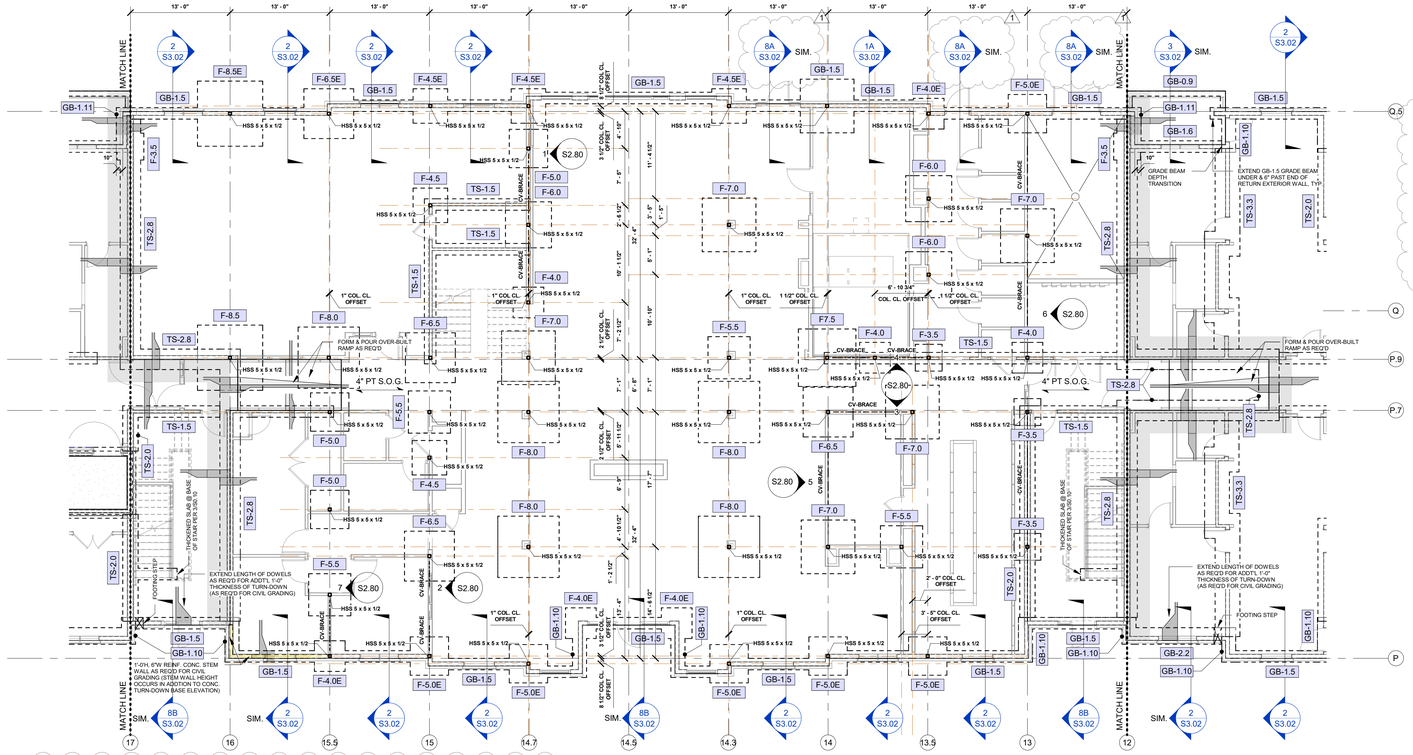
1 23.0411 CITY COMMENTS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (A) SHEARWALL PLAN
SHEET NO. S2.08a

4/11/2023 5:26:33 PM

ARCH E1.30" x 42"



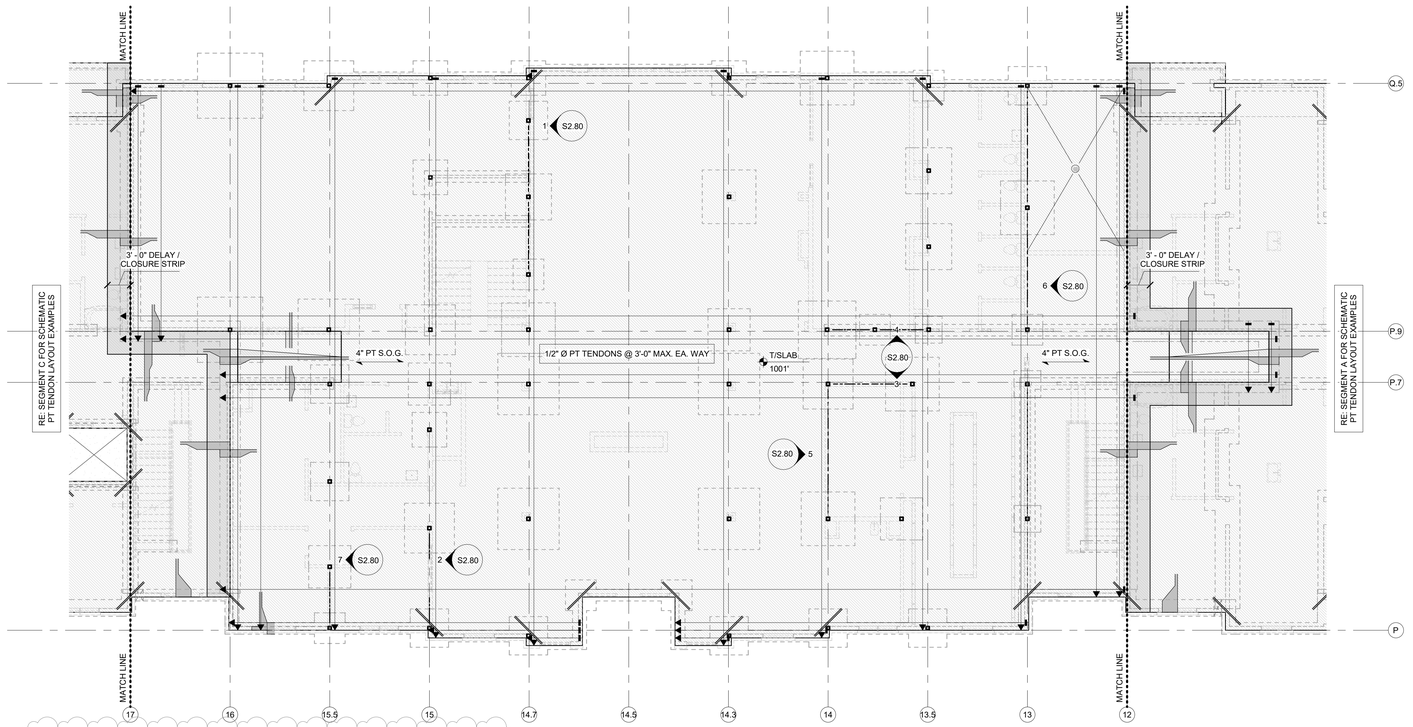
1 SEGMENT B - 1ST FLOOR FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

COL./STUD PACK OPTIONS BY FTG. SIZE (1ST FLR. / BASEMENT)

FOOTING	GLULAM COL's (28F-E1 SP/SP (U))	STUD PACKS	A53 Gr. B xS COL's	A53 Gr. B xxS COL's
F-2.5	3 1/2" x 5 1/2"	(3) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.0	3 1/2" x 5 1/2"	(4) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.5	3 1/2" x 5 1/2"	(5) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.0	3 1/2" x 7" --OR-- 5 1/2" x 5 1/2"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.5	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.0	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.5	5 1/2" x 7"	N/A	4" Ø xS PIPE	3" Ø xxS PIPE
F-6.0	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE
F-6.5	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE



2 SEGMENT B - 1ST FLOOR PT SLAB PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES. SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

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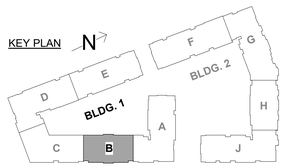
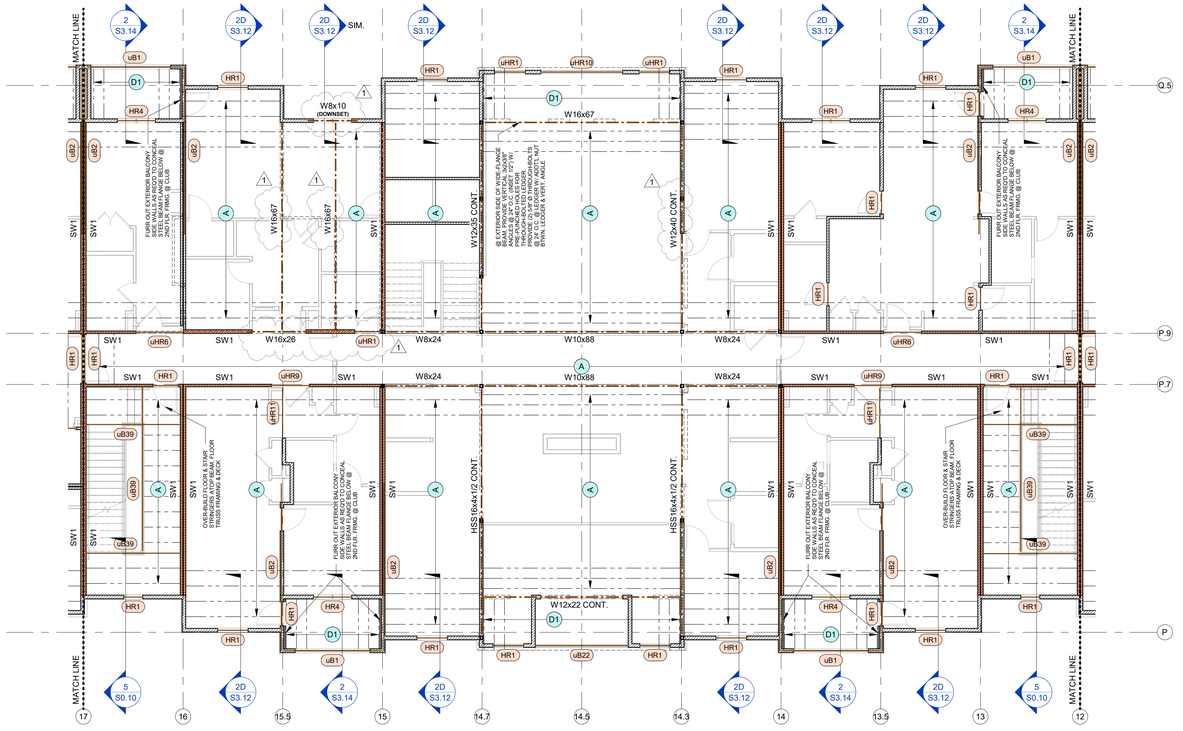
KEY PLAN



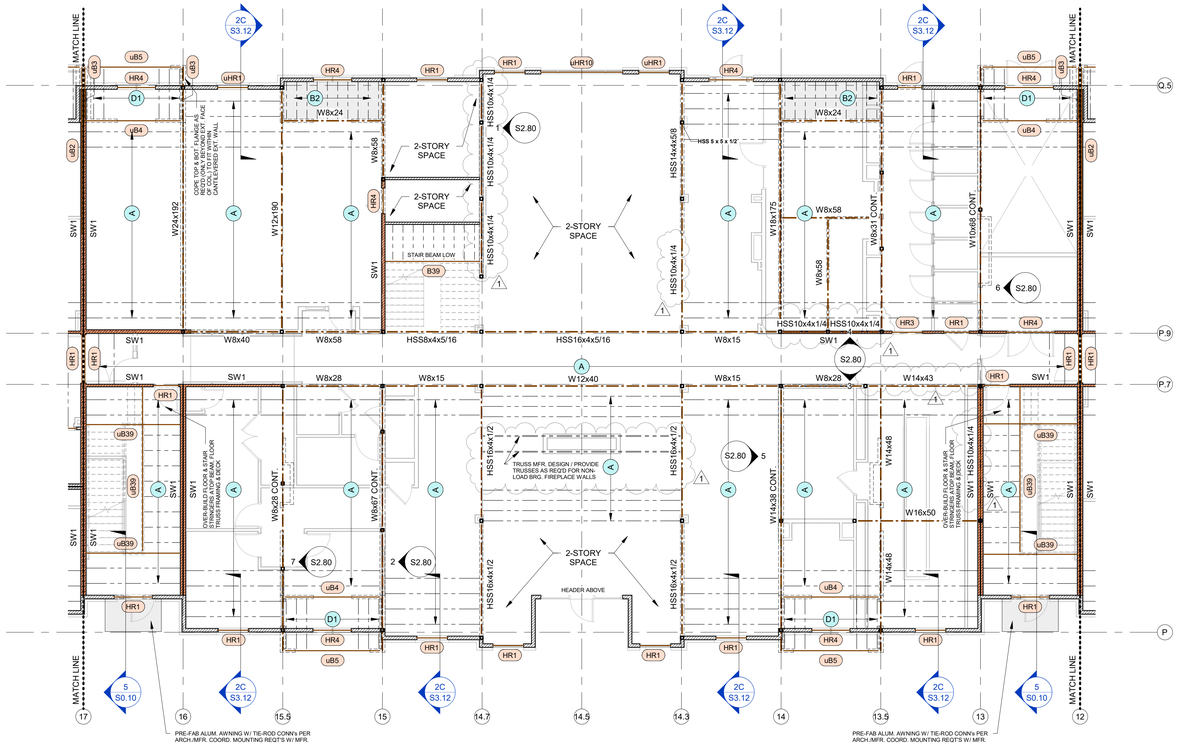
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (B) 1ST FLOOR PT SLAB & FDN. PLANS
SHEET NO. S2.09

4/11/2023 5:27:05 PM

ARCH E1.30" x 42"



1 SEGMENT B - 3RD FLOOR FRAMING PLAN
1/8" = 1'-0"



2 SEGMENT B - 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

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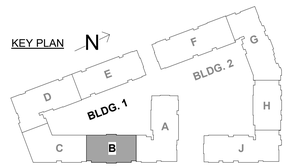
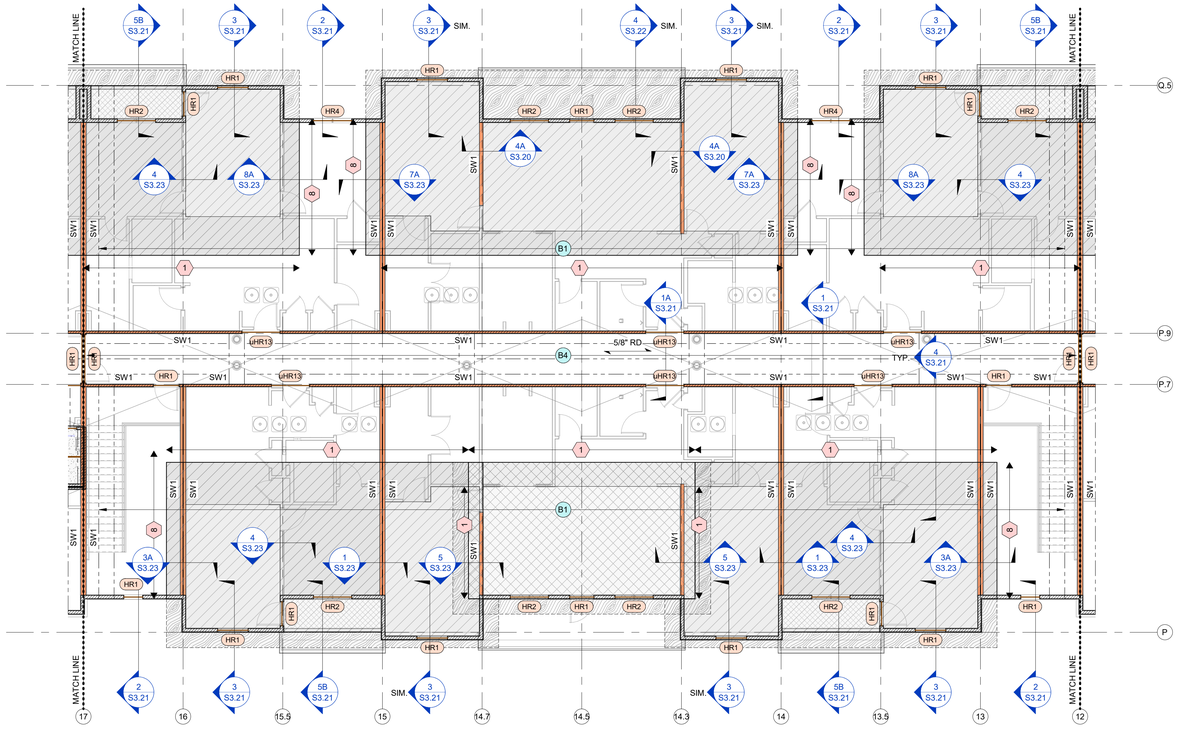
KEY PLAN N


GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (B) 2ND & 3RD FLOOR FRAMING PLANS
SHEET NO. S2.10

4/11/2023 5:27:28 PM

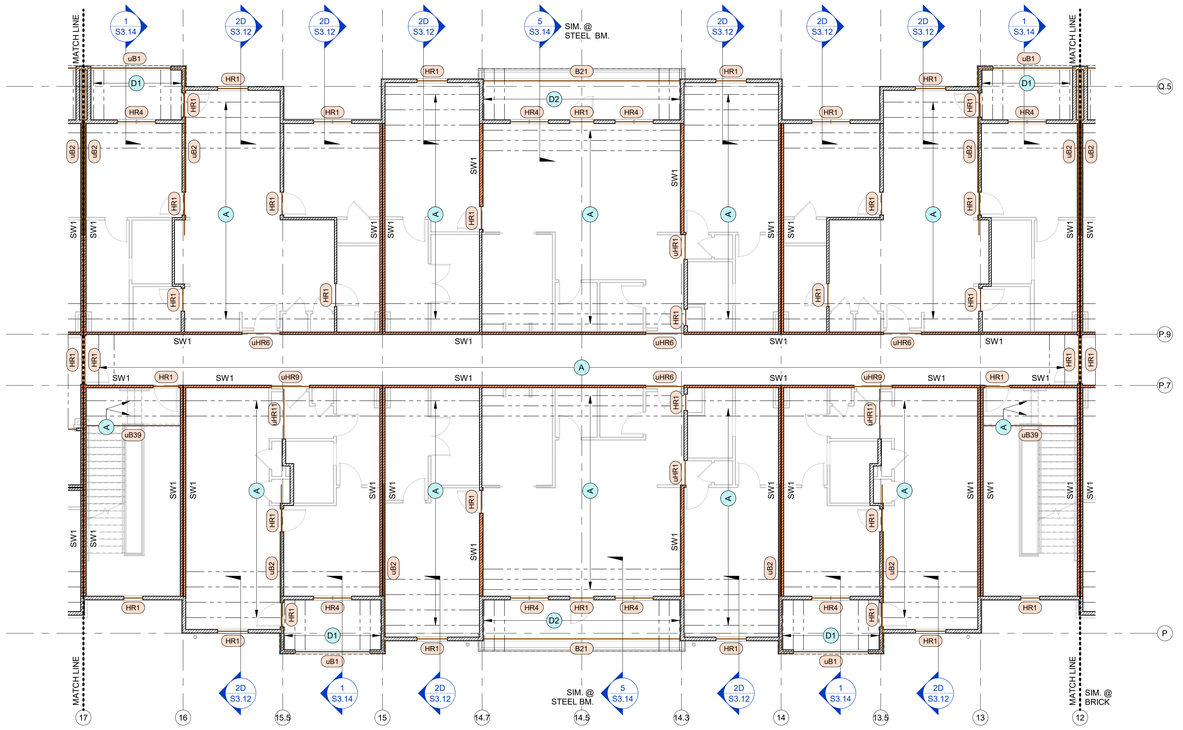
ARCH E1.30" x 42"



1 SEGMENT B - ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO SNOW DRIFT LOADING DIAGRAMS ON SHEET S0.02.
2. RE: ARCH. DWG's FOR ALTERNATING TREAD DEVICE / ROOF ACCESS HATCH LOCATIONS & COORD. W/ STAIR ORIENTATIONS AS REQ'D.



2 SEGMENT B - 4TH FLOOR FRAMING PLAN

1/8" = 1'-0"

GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.
3. REVISED / UPDATED ROOF FRAMING & ASSOCIATED SECTION DETAILS.

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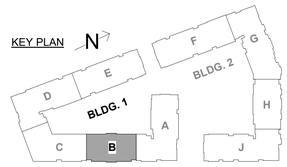
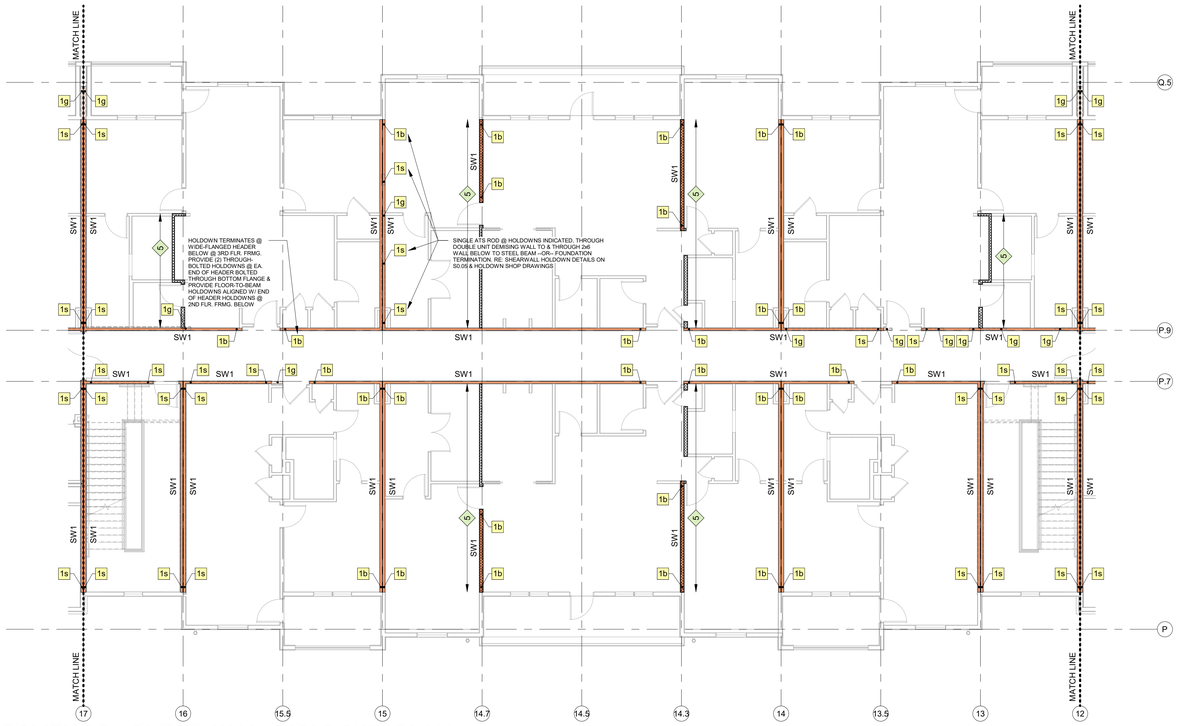
KEY PLAN



JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (B) 4TH FLOOR & ROOF FRAMING PLANS
SHEET NO. S2.11

4/11/2023 5:27:48 PM

ARCH E1.30" x 42"



1 SEGMENT B - SHEARWALL / HOLDOWN PLAN
1/8" = 1'-0"

NOTES:
1. SHEARWALL PLANS ARE SHOWN @ 4TH FLOOR FRAMING (3RD FLR. LN.) W/ 2ND (1ST FLR. LN.) & 1ST (0 BSMT. LN.) FLOOR FRMG. SHEARWALL UNDERLAYS FOR REFERENCE / COORDINATION.
2. RE: BLDG. 1 (SEGMENTS D / E) & BLDG. 2 (SEGMENTS G / H / J) SHEARWALL ELEVATIONS FOR TYPICAL CONDITIONS WHERE FLOOR-TO-FLOOR OR FLOOR-TO-BEAM HOLDOWNS ARE REQ'D.
3. RE: DETAILS 1A & 1B FOR HOLDOWNS @ GARAGE PORTAL FRAMES @ UNIT BLDG's.

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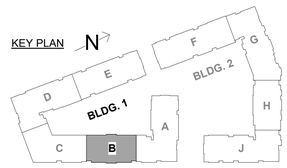
KEY PLAN N

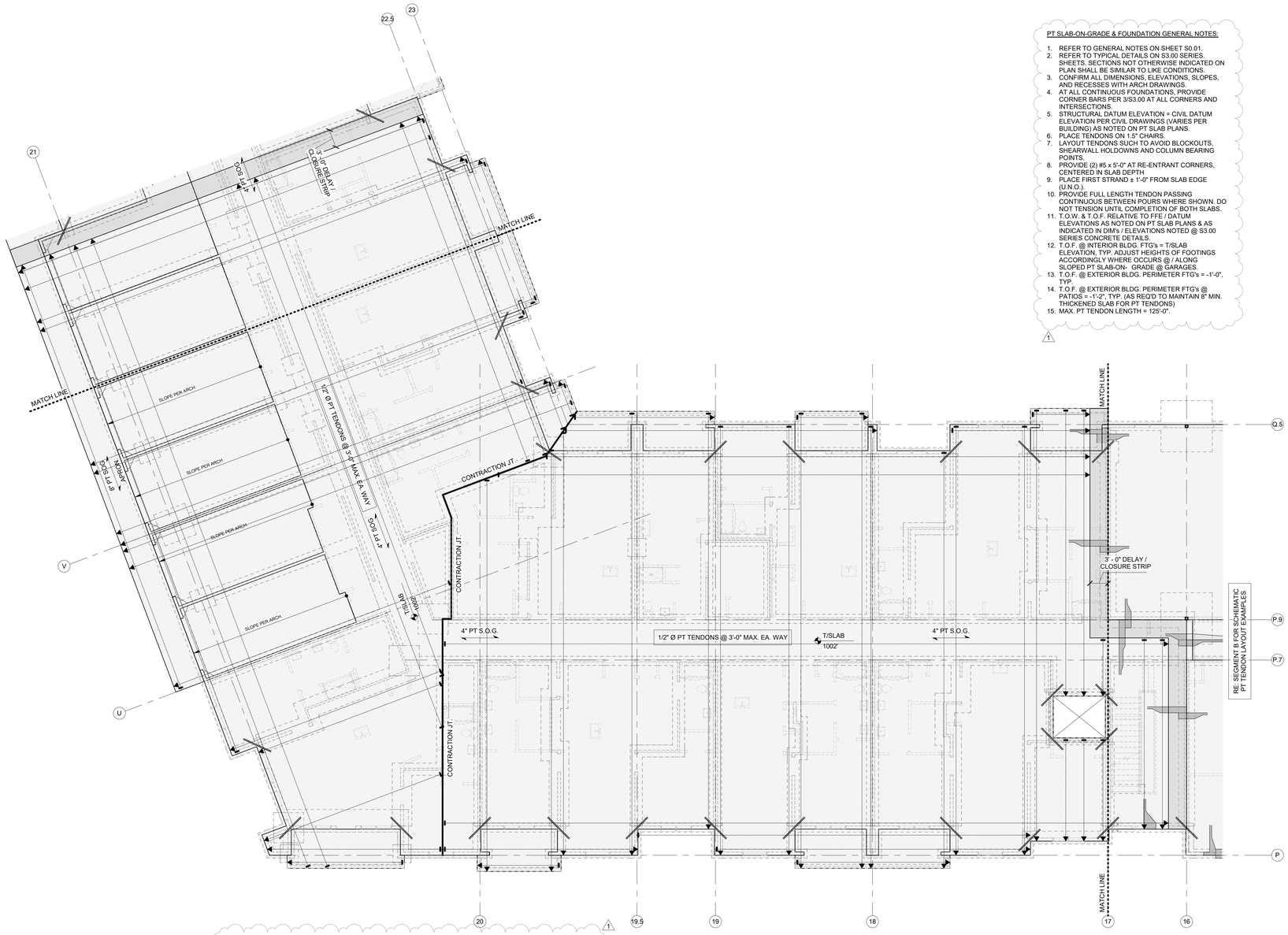


JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (B) SHEARWALL PLAN

SHEET NO.
S2.11a

4/11/2023 5:27:58 PM

ARCH E1.30" x 42"



SEGMENT C - 1ST FLOOR PT SLAB PLAN

2 1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES. SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

1

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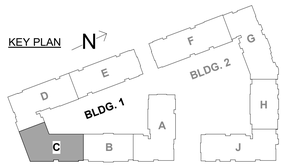
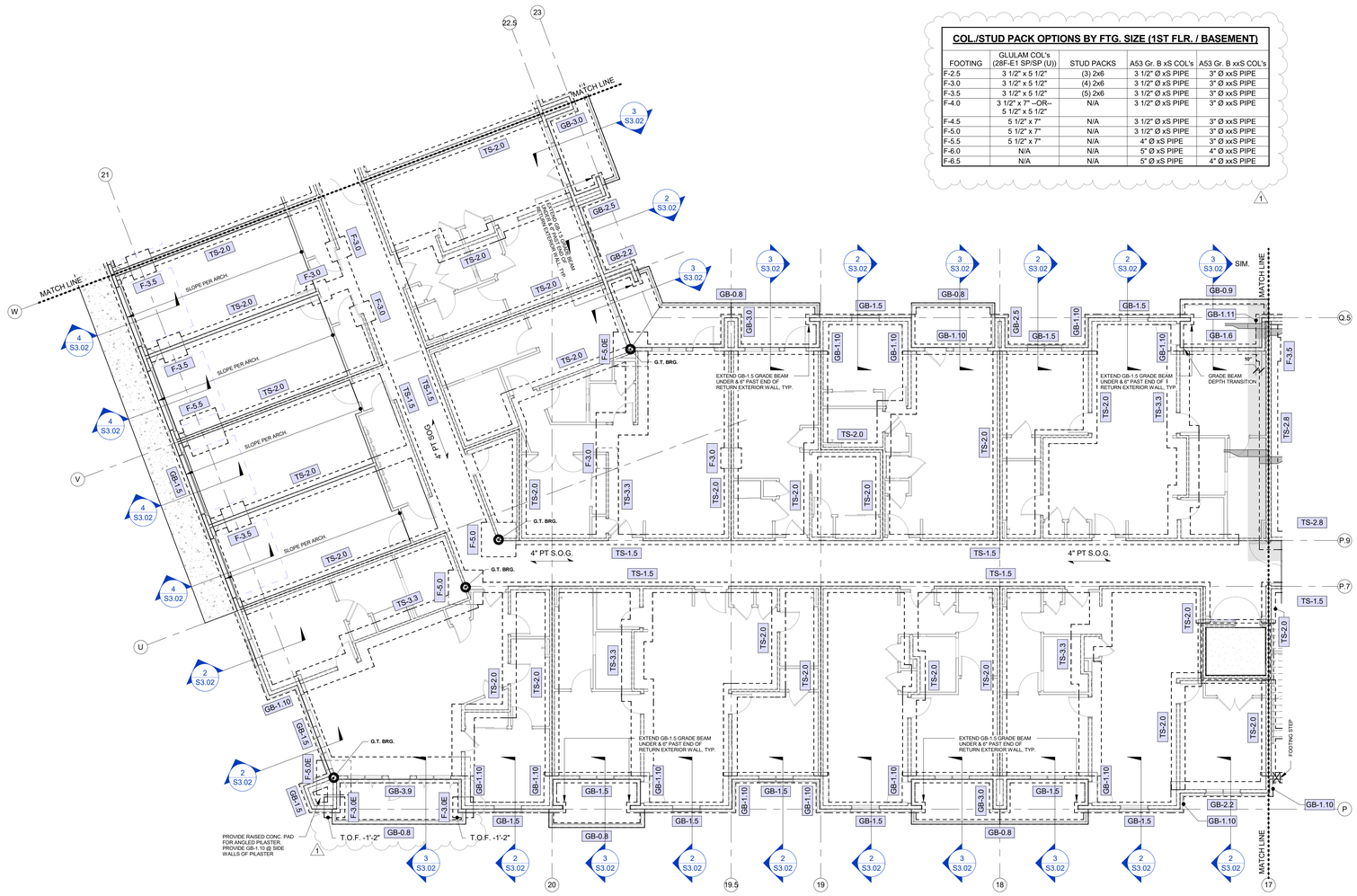


JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (C) 1ST FLOOR PT SLAB PLAN
SHEET NO. S2.12

4/11/2023 5:28:06 PM

ARCH E1.30" x 42"



COL./STUD PACK OPTIONS BY FTG. SIZE (1ST FLR. / BASEMENT)

FOOTING	GLULAM COL's (28F-E1 SP/SP (U))	STUD PACKS	A53 Gr. B xS COL's	A53 Gr. B xxS COL's
F-2.5	3 1/2" x 5 1/2"	(3) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.0	3 1/2" x 5 1/2"	(4) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.5	3 1/2" x 5 1/2"	(5) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.0	3 1/2" x 7" --OR-- 5 1/2" x 5 1/2"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.5	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.0	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.5	5 1/2" x 7"	N/A	4" Ø xS PIPE	3" Ø xxS PIPE
F-6.0	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE
F-6.5	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE

1

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
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13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

1

1 SEGMENT C - 1ST FLOOR FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET. 1

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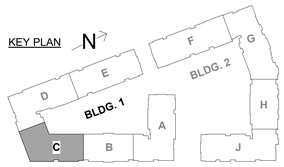
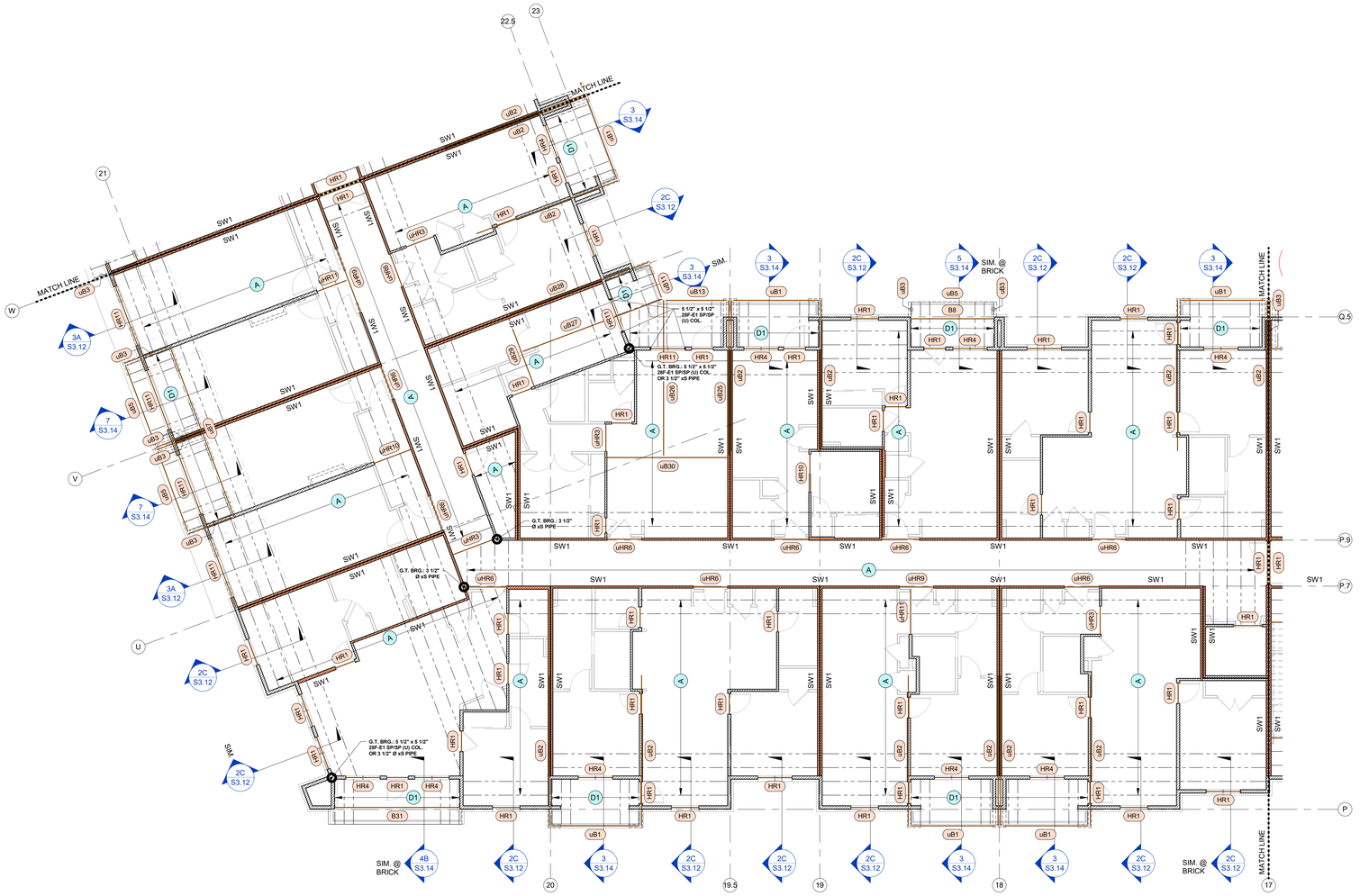


JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (C) 1ST FLOOR FDN. PLAN
SHEET NO. S2.13

4/11/2023 5:28:17 PM

ARCH E1.30" x 42"



1 SEGMENT C - 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

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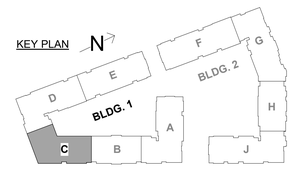

GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

1

JOB NO. PN1129
DATE 03/15/23
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4.11.2023 CITY COMMENTS
SHEET NAME SEG (C) 2ND FLOOR FRAMING PLAN
SHEET NO. S2.14

4/11/2023 5:28:28 PM

ARCH E1 30" x 42"

1 SEGMENT C - 3RD FLOOR FRAMING PLAN
1/8" = 1'-0"

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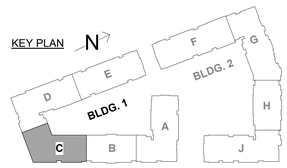

JOB NO. PN1129
DATE 03/15/23
DRAWN BY Author
4.11.2023 CITY COMMENTS
SHEET NAME SEG (C) 3RD FLOOR FRAMING PLAN
SHEET NO. S2.15

GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

1

4/11/2023 5:28:39 PM

ARCH E1.30" x 42"

1 SEGMENT C - 4TH FLOOR FRAMING PLAN
1/8" = 1'-0"

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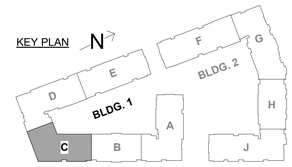


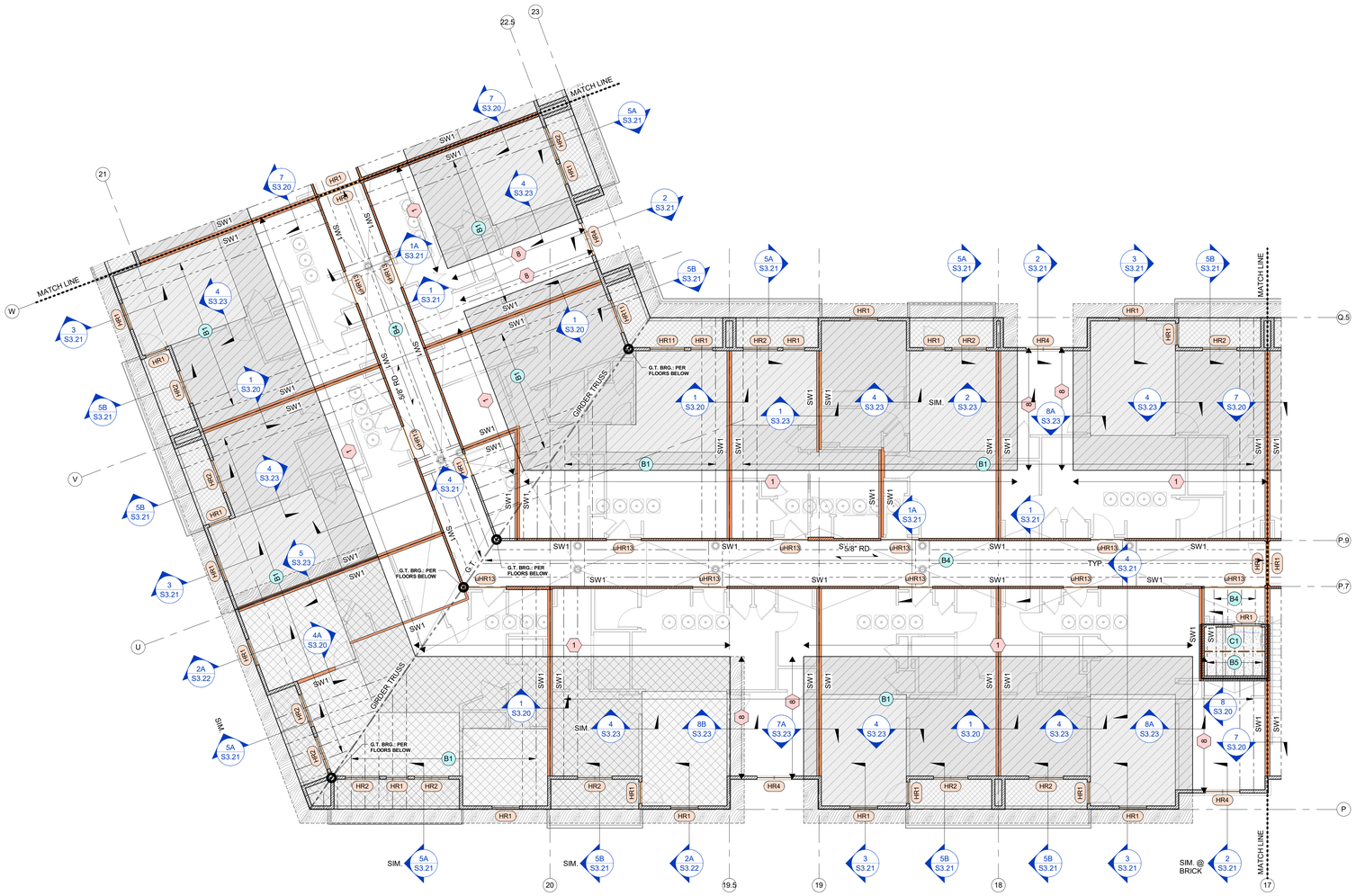
GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

1

JOB NO. PN1129
DATE 03/15/23
DRAWN BY Author
4.11.2023 CITY COMMENTS
SHEET NAME SEG (C) 4TH FLOOR FRAMING PLAN
SHEET NO. S2.16

4/11/2023 5:28:49 PM

ARCH E1.30" x 42"



1 SEGMENT C - ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO SNOW DRIFT LOADING DIAGRAMS ON SHEET S0.02.
2. RE: ARCH. DWG's FOR ALTERNATING TREAD DEVICE / ROOF ACCESS HATCH LOCATIONS & COORD. W/ STAIR ORIENTATIONS AS REQ'D.

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04.11.23

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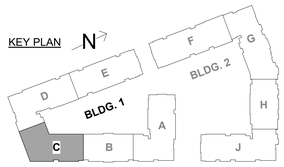
1 23.0411 CITY COMMENTS

KEY PLAN N

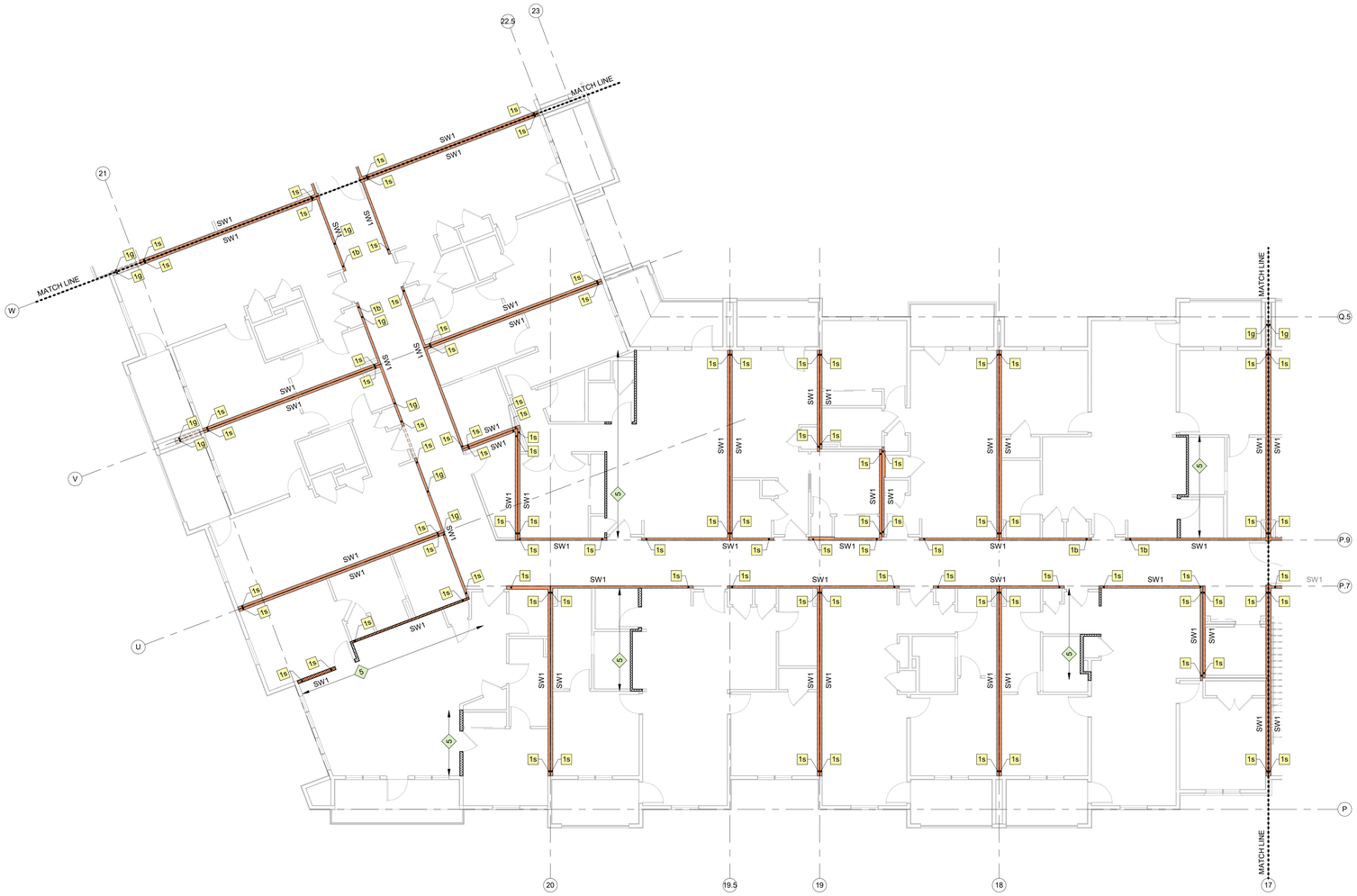


JOB NO. PN1129
DATE 03/15/23
DRAWN BY Author
4.11.2023 CITY COMMENTS
SHEET NAME SEG (C) ROOF FRAMING PLAN
SHEET NO. S2.17

GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.
3. REVISED / UPDATED ROOF FRAMING & ASSOCIATED SECTION DETAILS.

4/11/2023 5:26:59 PM

ARCH E1.30" x 42"



1 SEGMENT C - SHEARWALL / HOLDOWN PLAN

1/8" = 1'-0"

NOTES:
1. SHEARWALL PLANS ARE SHOWN @ 4TH FLOOR FRAMING (3RD FLR. LN.) W/ 2ND (1ST FLR. LN.) & 1ST (0 BSMT. LN.) FLOOR FRMG. SHEARWALL UNDERLAYS FOR REFERENCE / COORDINATION.
2. RE: BLDG. 1 (SEGMENTS D / E) & BLDG. 2 (SEGMENTS G / H / J) SHEARWALL ELEVATIONS FOR TYPICAL CONDITIONS WHERE FLOOR-TO-FLOOR OR FLOOR-TO-BEAM HOLDOWNS ARE REQ'D.
3. RE: DETAILS 1A & 1B FOR HOLDOWNS @ GARAGE PORTAL FRAMES @ UNIT BLDG's.

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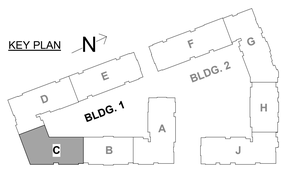
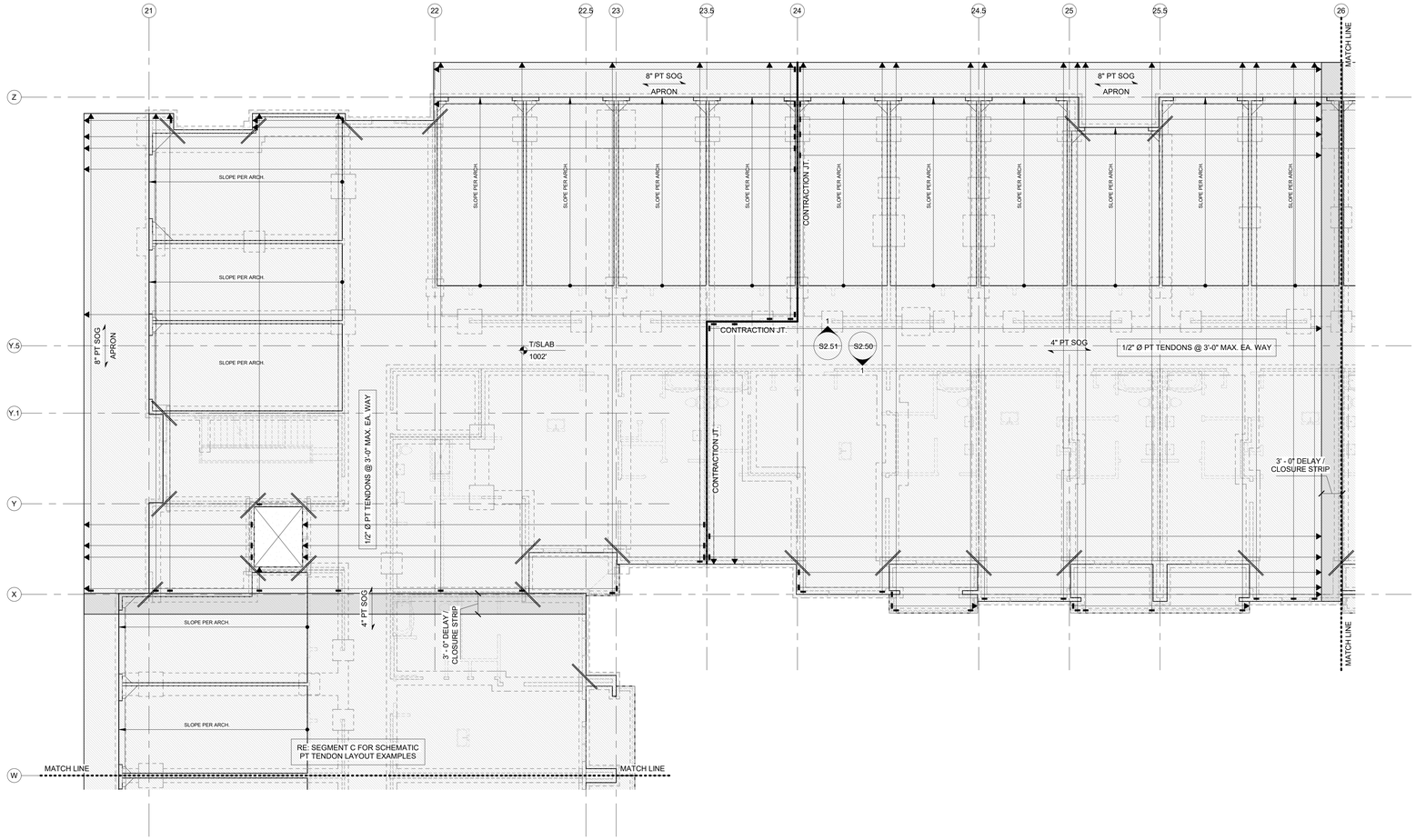


JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (C) SHEARWALL PLAN

SHEET NO. S2.17a

4/11/2023 5:29:08 PM

ARCH E1.30" x 42"



1 SEGMENT D - 1ST FLOOR PT SLAB PLAN
1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES. SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

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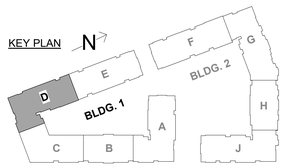
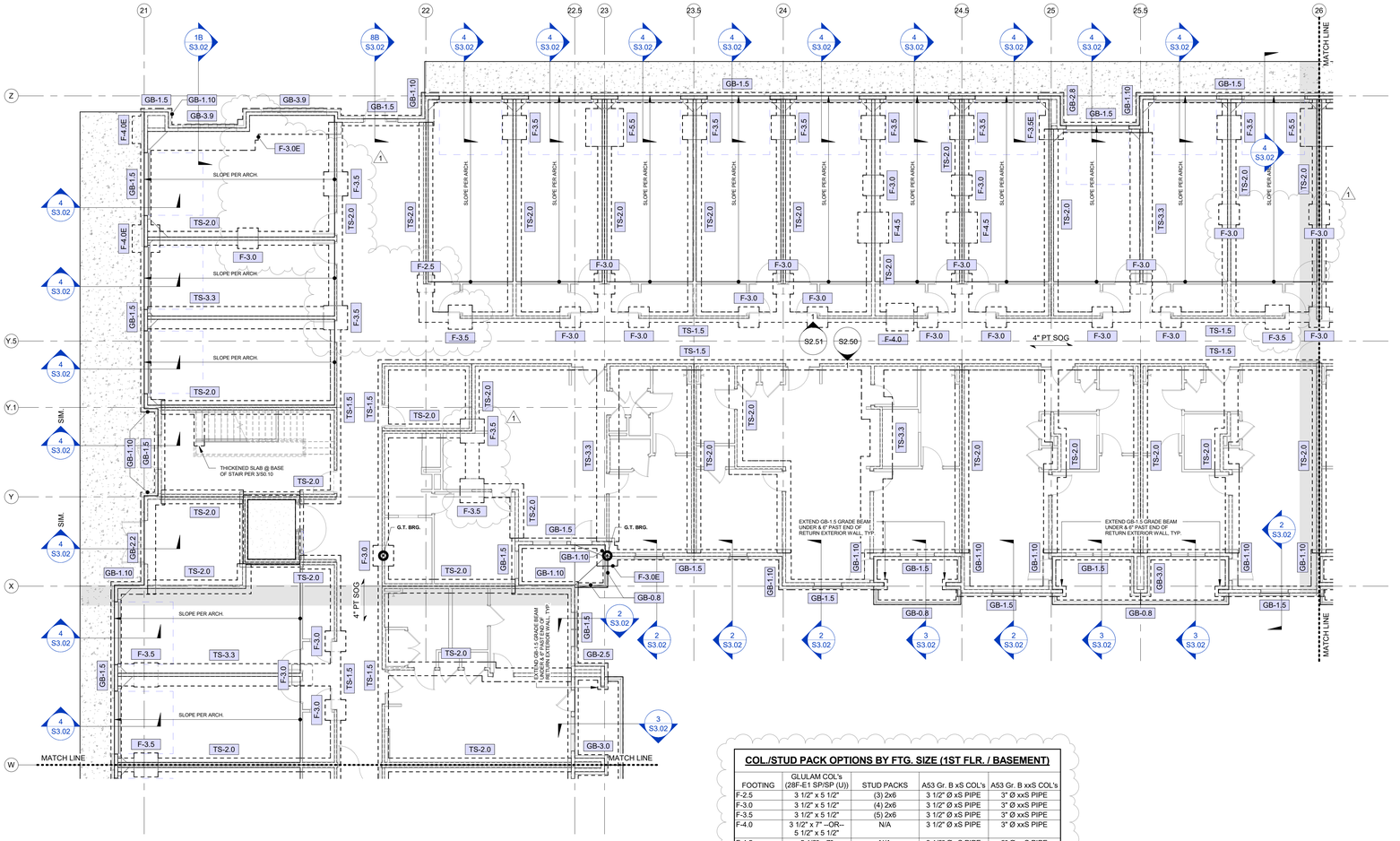


JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (D) 1ST FLOOR PT SLAB PLAN
SHEET NO. S2.18

4/11/2023 5:29:15 PM

ARCH E1 30" x 42"



SEGMENT D - 1ST FLOOR FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

COL./STUD PACK OPTIONS BY FTG. SIZE (1ST FLR. / BASEMENT)

FOOTING	GLULAM COL's (28F-E1 SP/SP (U))	STUD PACKS	A53 Gr. B xS COL's	A53 Gr. B xxS COL's
F-2.5	3 1/2" x 5 1/2"	(3) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.0	3 1/2" x 5 1/2"	(4) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.5	3 1/2" x 5 1/2"	(5) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.0	3 1/2" x 7" –OR– 5 1/2" x 5 1/2"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.5	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.0	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.5	5 1/2" x 7"	N/A	4" Ø xS PIPE	3" Ø xxS PIPE
F-6.0	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE
F-6.5	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

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3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
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7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
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10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
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12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
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15. MAX. PT TENDON LENGTH = 125'-0".

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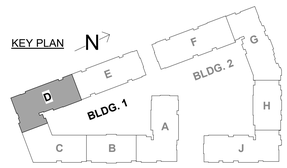

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (D) 1ST FLOOR FDN. PLAN
SHEET NO. S2.19

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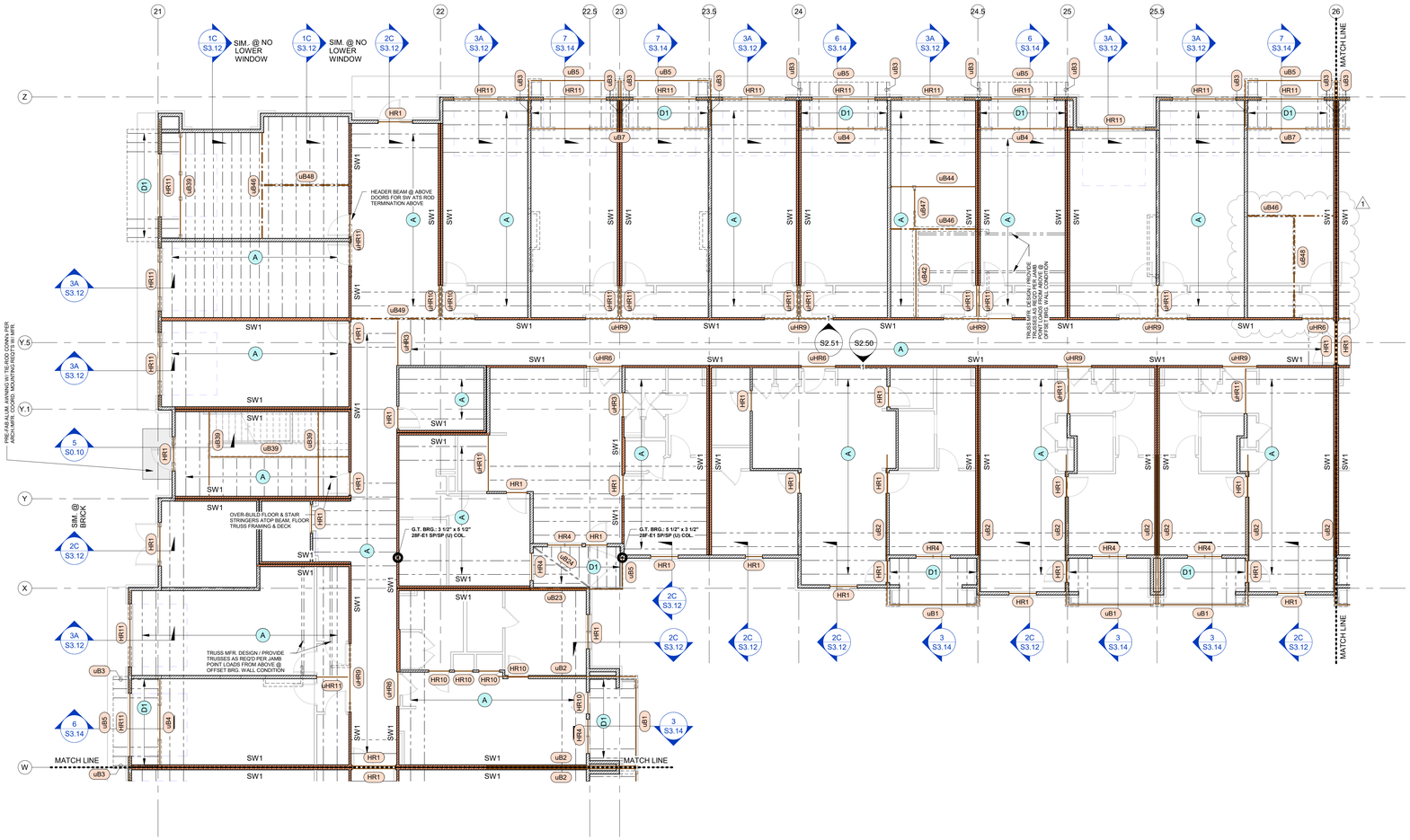
ARCH E1.30" x 42"



1 SEGMENT D - 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

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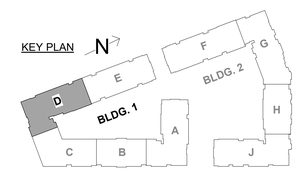
KEY PLAN N


GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (D) 2ND FLOOR FRAMING PLAN
SHEET NO. S2.20

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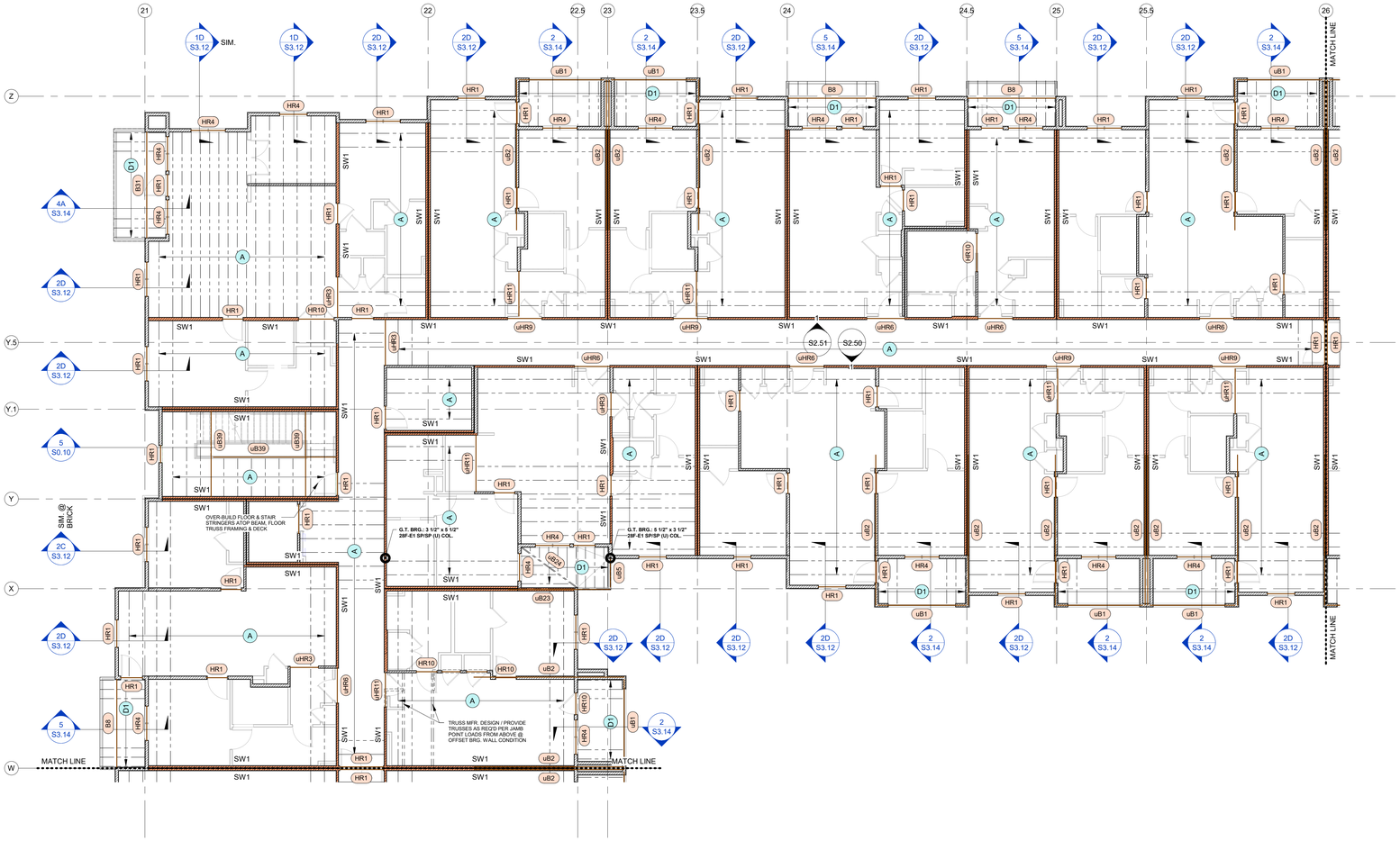

1 SEGMENT D - 3RD FLOOR FRAMING PLAN
1/8" = 1'-0"

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1 23.0411 CITY COMMENTS

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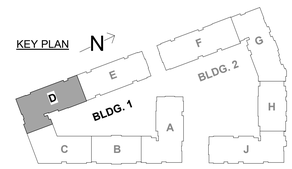


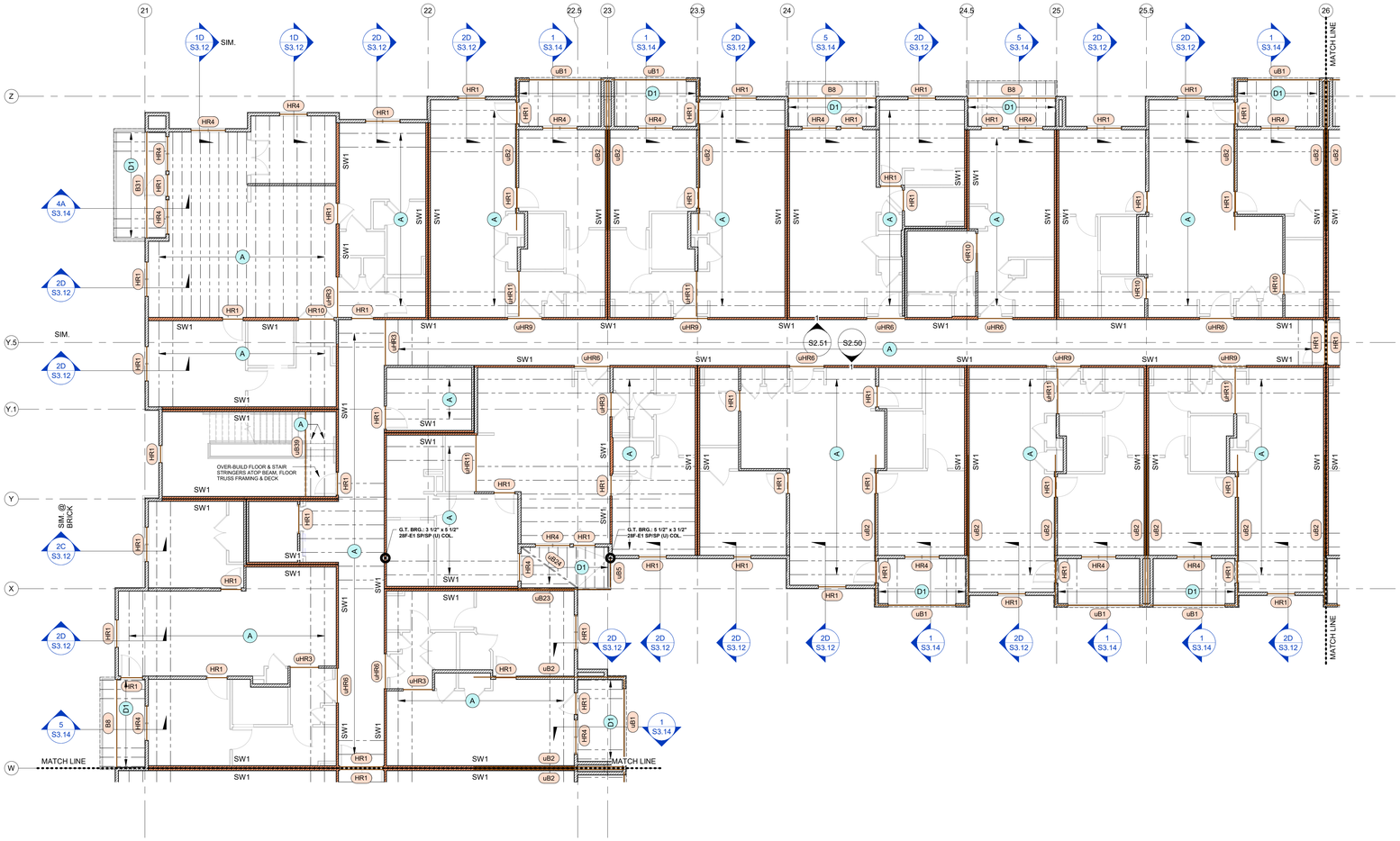
GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

△1

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (D) 3RD FLOOR FRAMING PLAN
SHEET NO. S2.21

ARCH E1.30" x 42"

4/11/2023 5:30:01 PM



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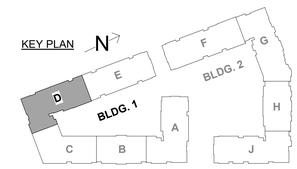

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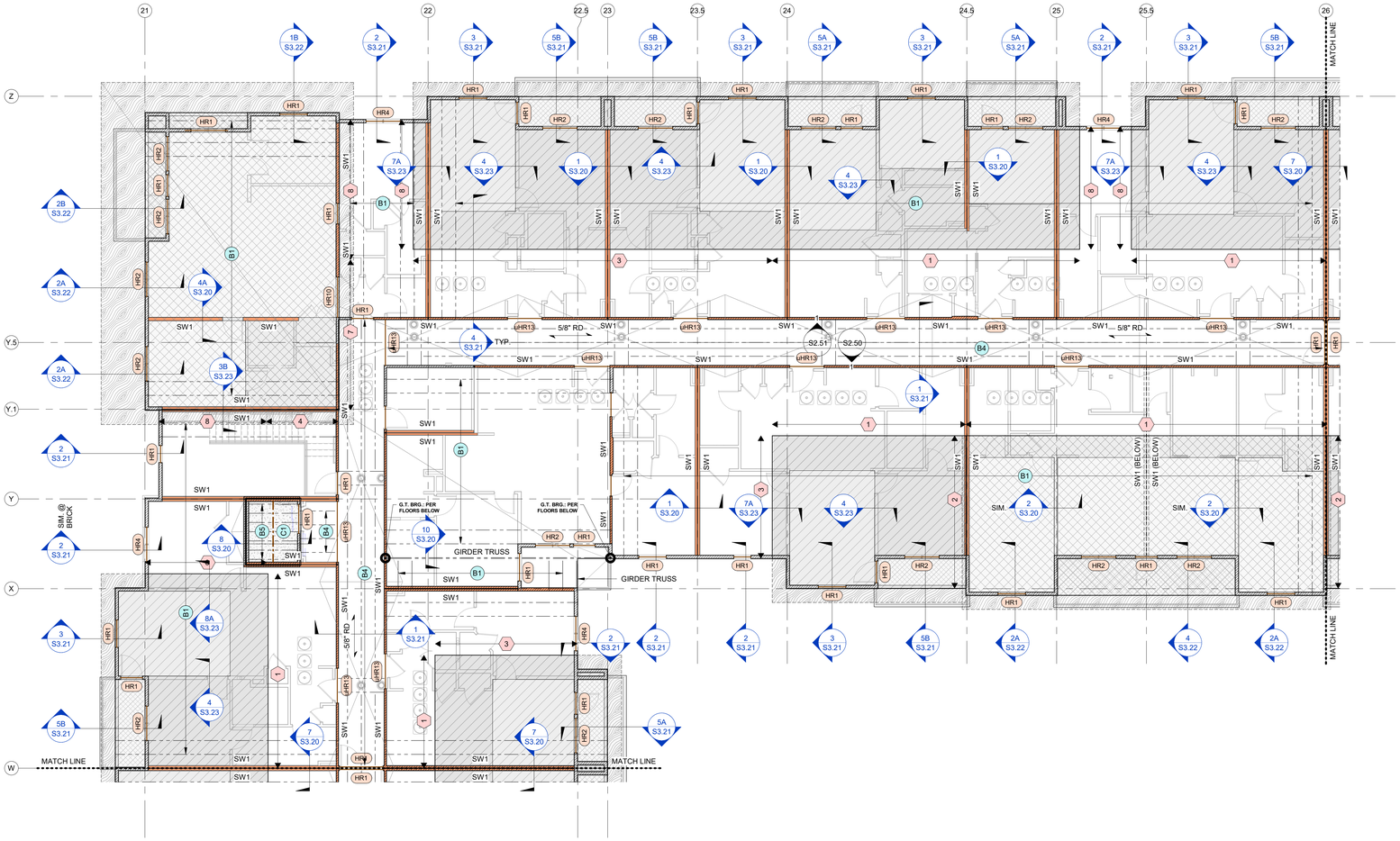
SHEET NAME SEG (D) 4TH FLOOR FRAMING PLAN
SHEET NO. S2.22

ARCH E1 30" x 42"
4/11/2023 5:30:18 PM

ARCH E1.30" x 42"



1 SEGMENT D - ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO SNOW DRIFT LOADING DIAGRAMS ON SHEET S0.02.
2. RE: ARCH. DWG's FOR ALTERNATING TREAD DEVICE / ROOF ACCESS HATCH LOCATIONS & COORD. W/ STAIR ORIENTATIONS AS REQ'D.

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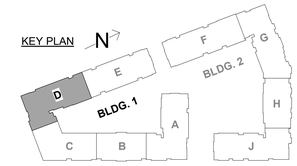

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1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.
3. REVISED / UPDATED ROOF FRAMING & ASSOCIATED SECTION DETAILS.

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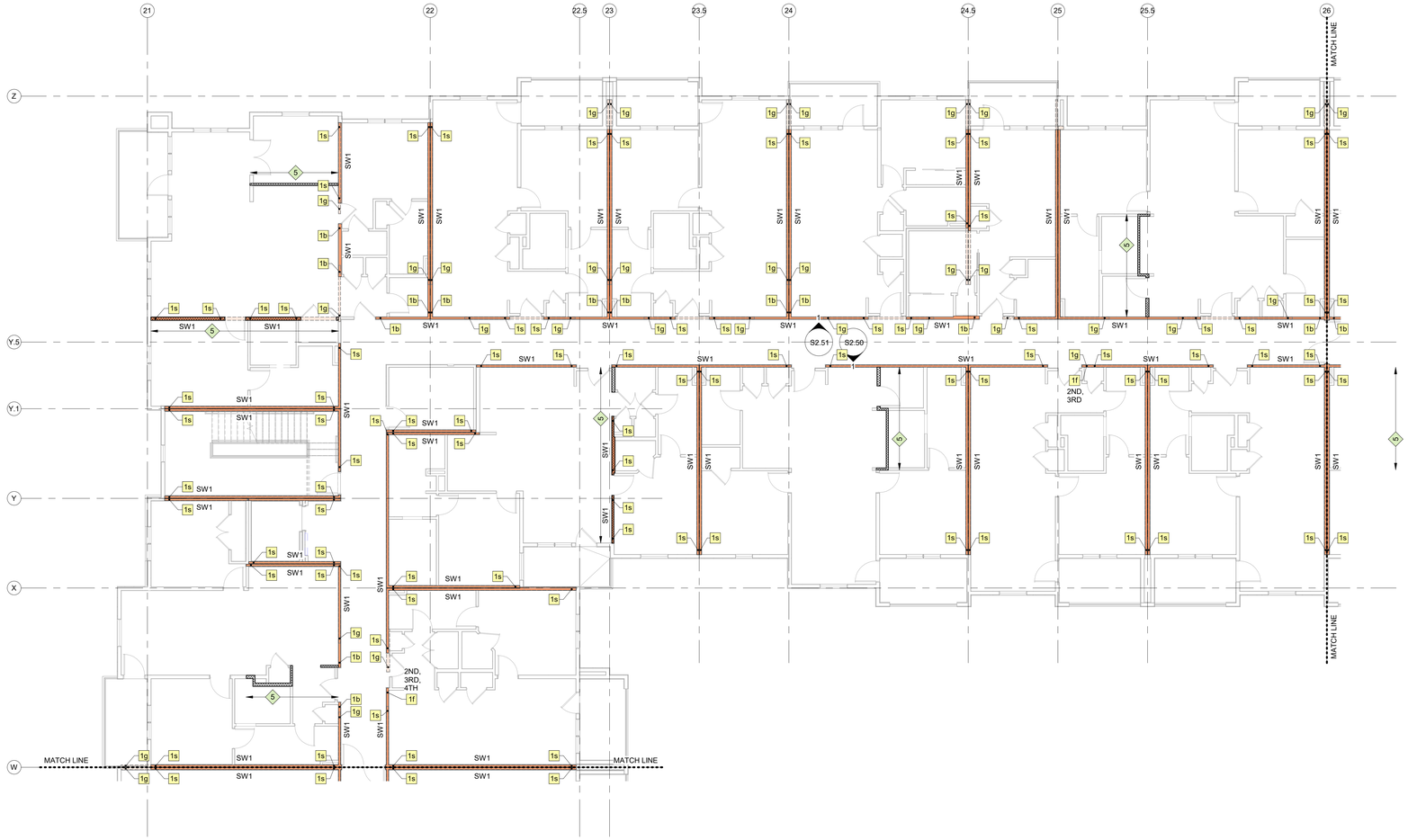
SHEET NO. S2.23

4/11/2023 5:30:36 PM

ARCH E1.30" x 42"



1 SEGMENT D - SHEARWALL / HOLDOWN PLAN

1/8" = 1'-0"

NOTES:

1. SHEARWALL PLANS ARE SHOWN @ 4TH FLOOR FRAMING (3RD FLR. LN.) W/ 2ND (1ST FLR. LN.) & 1ST (0 BSMT. LN.) FLOOR FRMG. SHEARWALL UNDERLAYS FOR REFERENCE / COORDINATION.
2. RE: BLDG. 1 (SEGMENTS D / E) & BLDG. 2 (SEGMENTS G / H / J) SHEARWALL ELEVATIONS FOR TYPICAL CONDITIONS WHERE FLOOR-TO-FLOOR OR FLOOR-TO-BEAM HOLDOWNS ARE REQ'D.
3. RE: DETAILS 1A & 1B FOR HOLDOWNS @ GARAGE PORTAL FRAMES @ UNIT BLDG's.

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NW WARD RD. | LEE'S SUMMIT, MO

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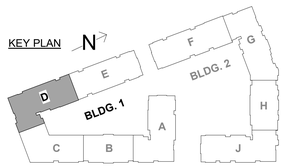
- 03.15.2023 - PERMIT SUBMITTAL

△ REVISIONS

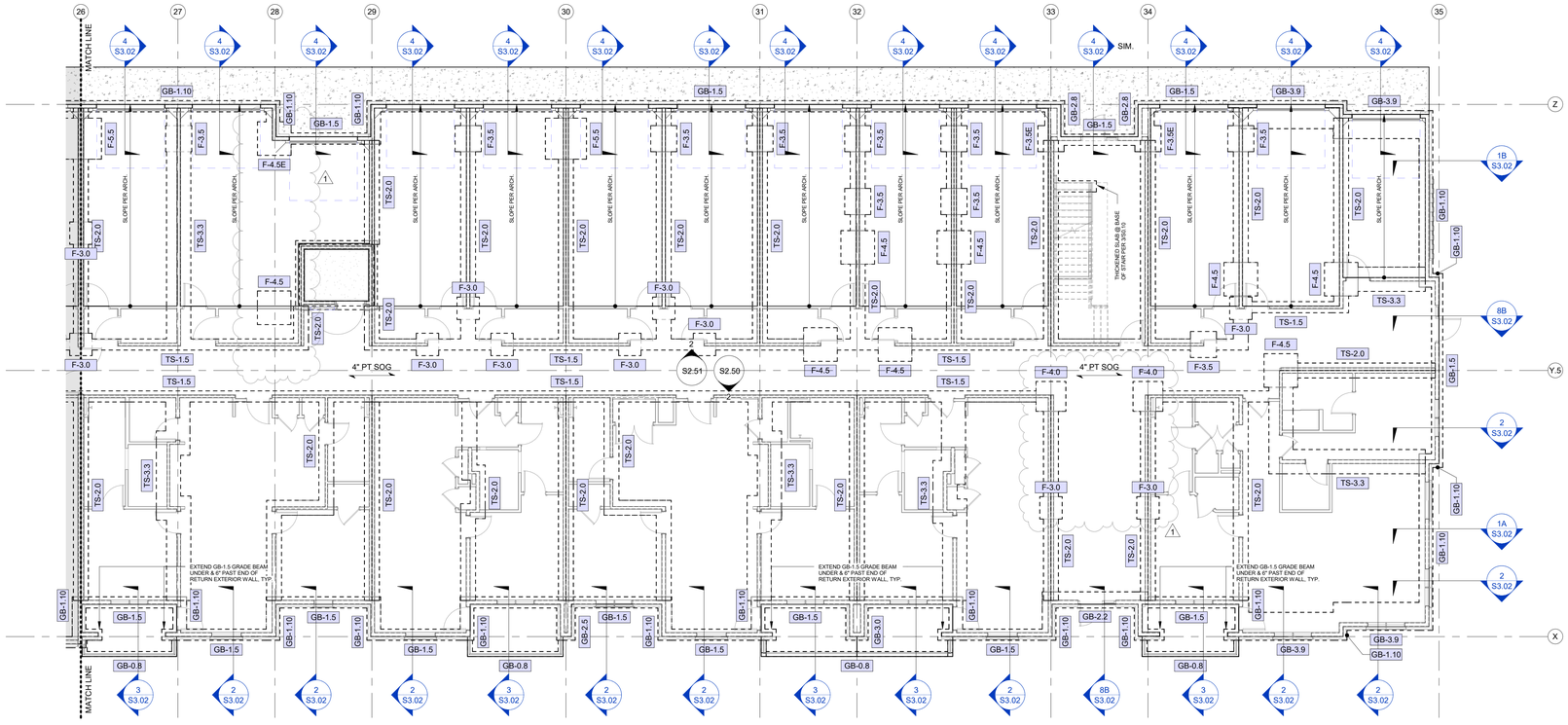
KEY PLAN N



JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (D) SHEARWALL PLAN
SHEET NO. S2.23a

4/11/2023 5:30:52 PM

ARCH E1 30" x 42"



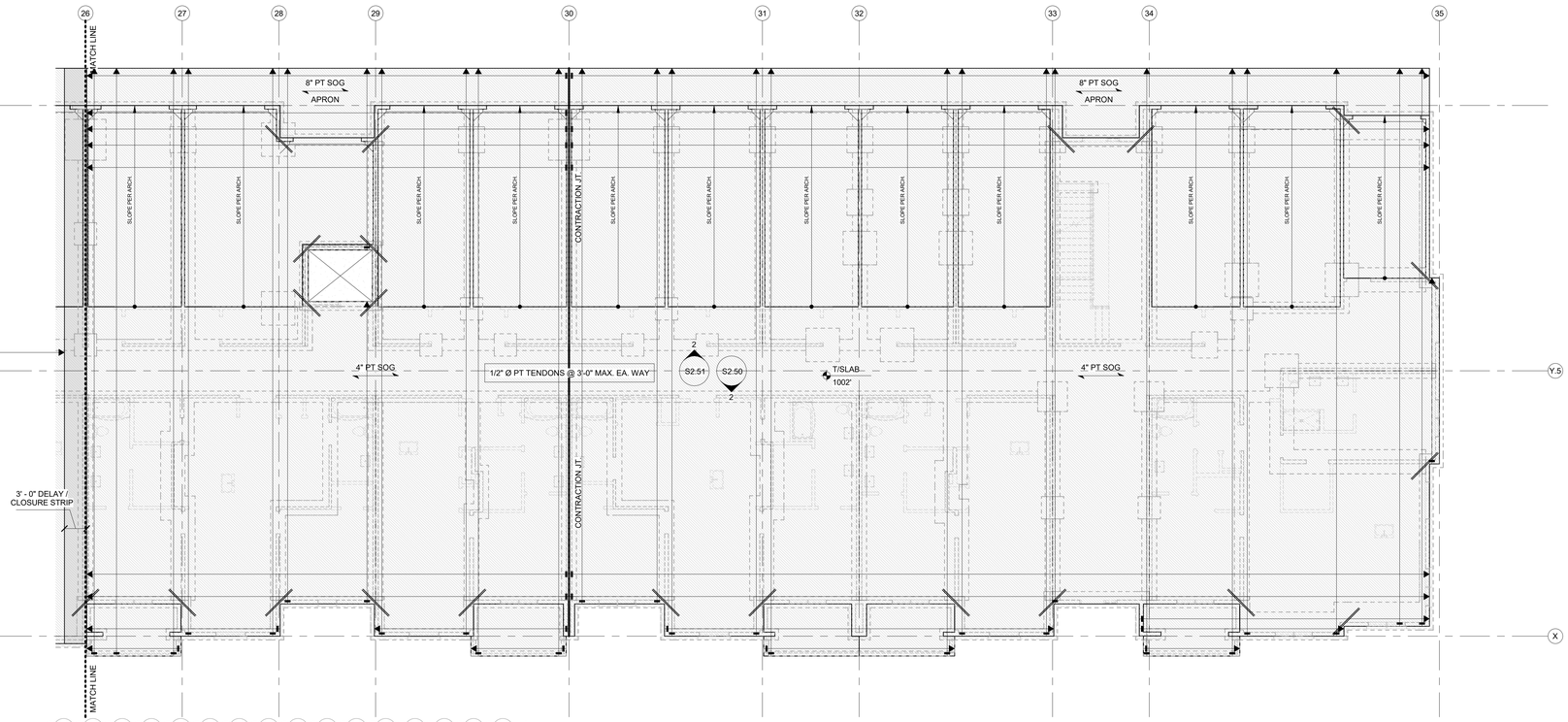
SEGMENT E - 1ST FLOOR FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

COL./STUD PACK OPTIONS BY FTG. SIZE (1ST FLR. / BASEMENT)

FOOTING	GLULAM COL's (28F-E1 SP/SP (U))	STUD PACKS	A53 Gr. B xS COL's	A53 Gr. B xxS COL's
F-2.5	3 1/2" x 5 1/2"	(3) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.0	3 1/2" x 5 1/2"	(4) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.5	3 1/2" x 5 1/2"	(5) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.0	3 1/2" x 7" --OR-- 5 1/2" x 5 1/2"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.5	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.0	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.5	5 1/2" x 7"	N/A	4" Ø xS PIPE	3" Ø xxS PIPE
F-6.0	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE
F-6.5	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE



SEGMENT E - 1ST FLOOR PT SLAB PLAN

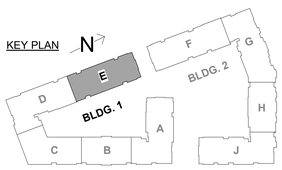
1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

KEY PLAN



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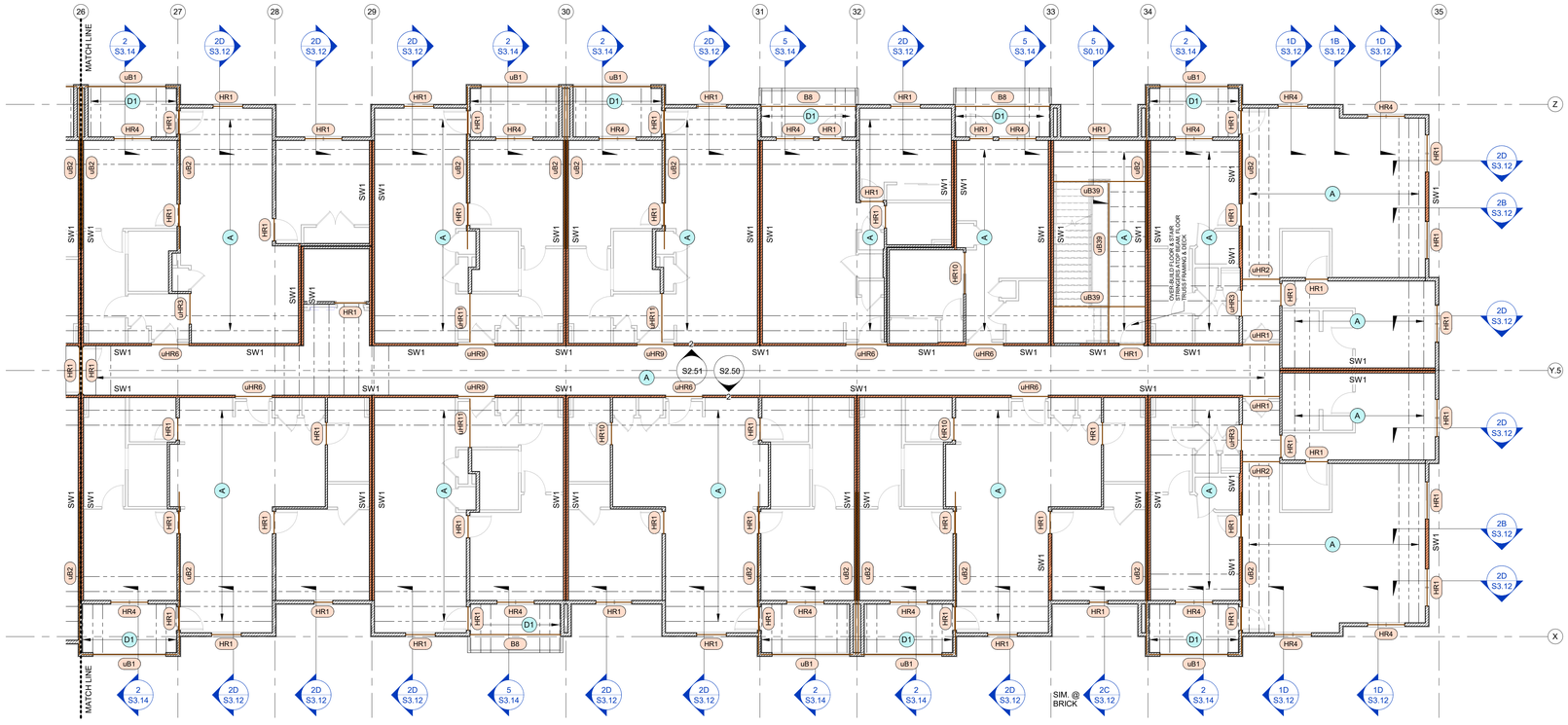
1 23.0411 CITY COMMENTS

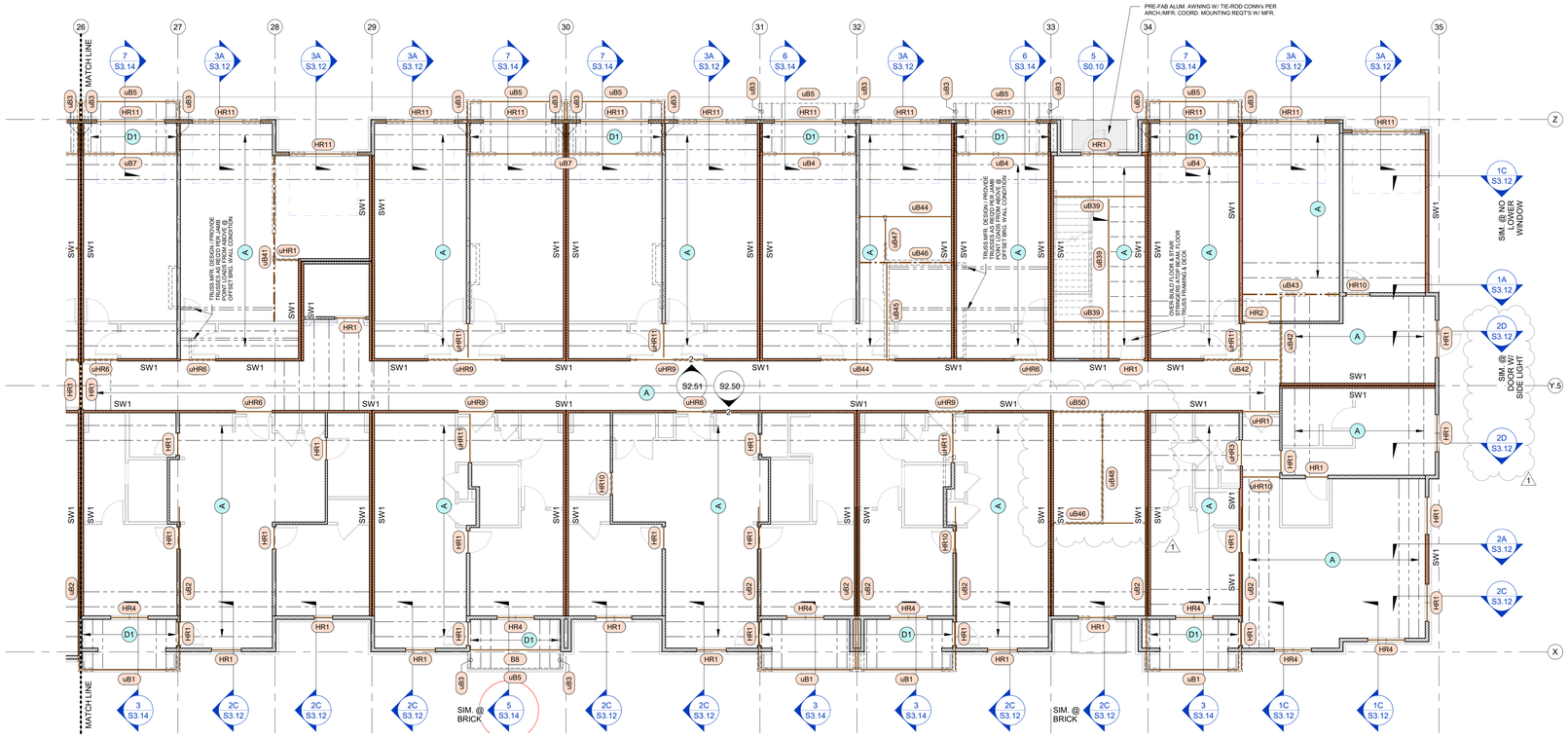
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
SEG (E) 1ST FLOOR PT SLAB & FDN. PLANS
SHEET NO.
S2.24

4/11/2023 5:31:15 PM

ARCH E1.30" x 42"



1 SEGMENT E - 3RD FLOOR FRAMING PLAN
1/8" = 1'-0"



2 SEGMENT E - 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

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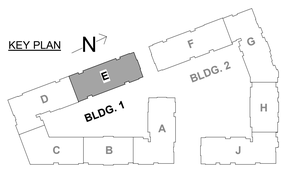
REVISIONS
1 23.0411 CITY COMMENTS

KEY PLAN N

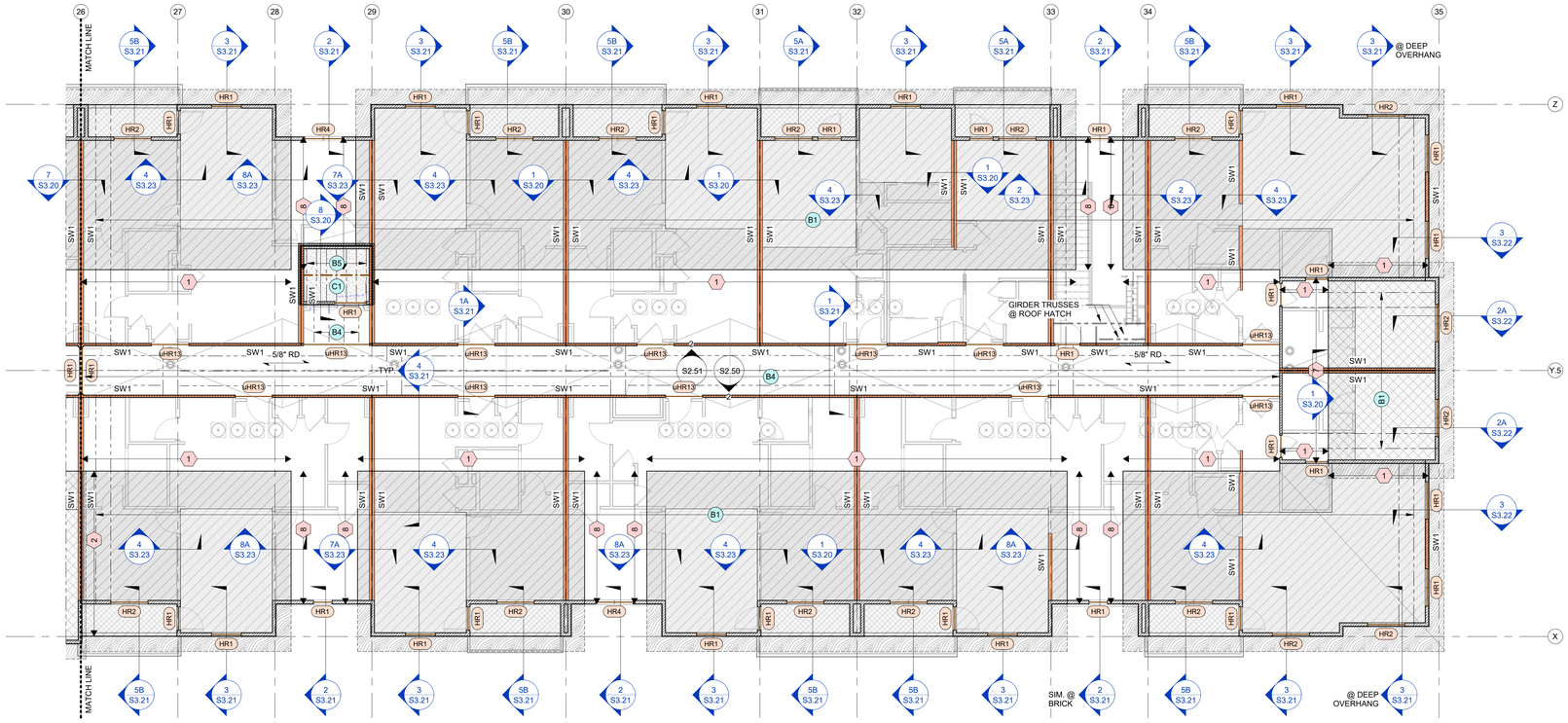


JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (E) 2ND & 3RD FLOOR FRAMING PLANS
SHEET NO. S2.25

GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

4/11/2023 5:31:59 PM

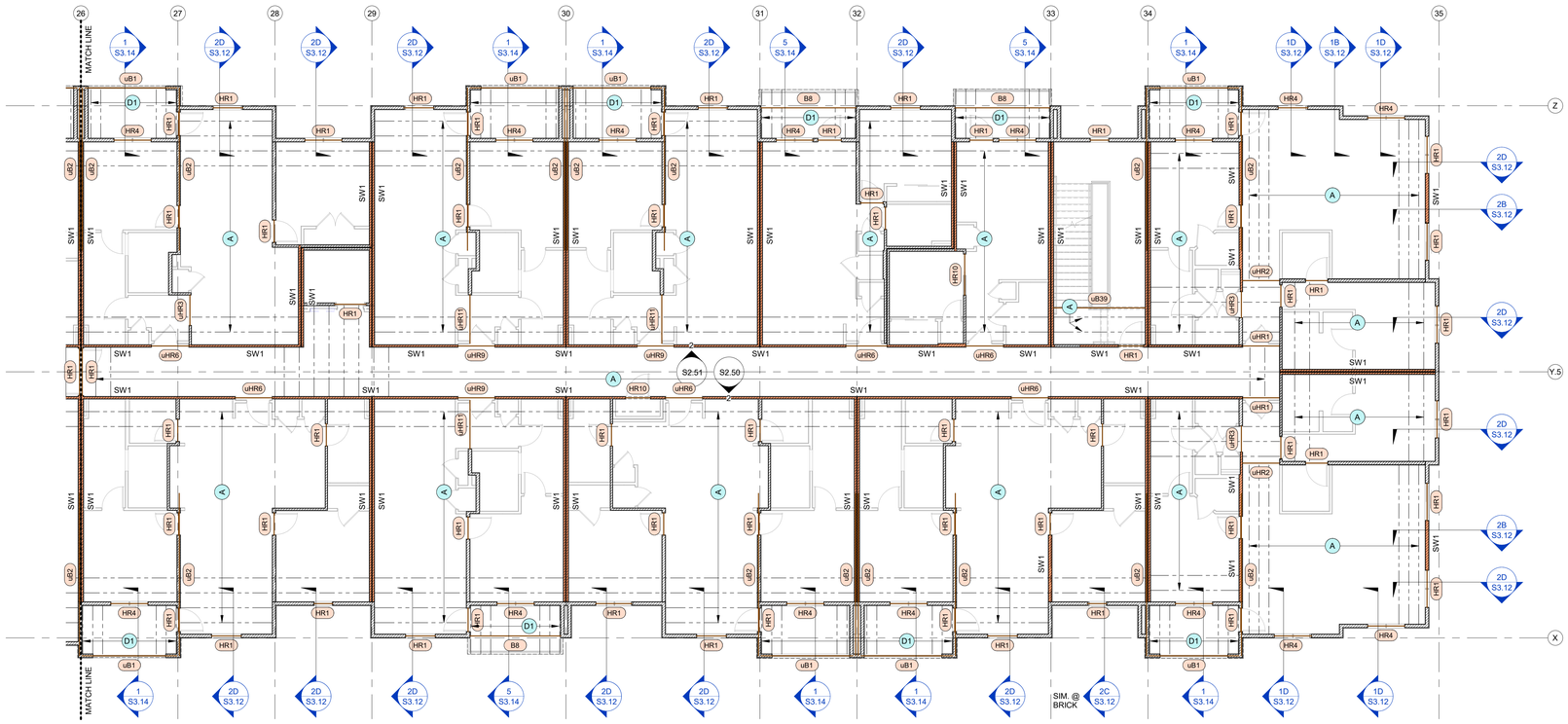
ARCH E1.30" x 42"



SEGMENT E - ROOF FRAMING PLAN

1 1/8" = 1'-0"

NOTES:
1. REFER TO SNOW DRIFT LOADING DIAGRAMS ON SHEET S0.02.
2. RE: ARCH. DWG's FOR ALTERNATING TREAD DEVICE / ROOF ACCESS HATCH LOCATIONS & COORD. W/ STAIR ORIENTATIONS AS REQ'D.



SEGMENT E - 4TH FLOOR FRAMING PLAN

2 1/8" = 1'-0"

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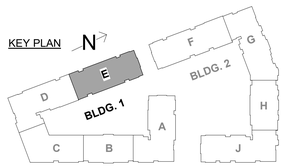
1 23.0411 CITY COMMENTS

KEY PLAN



JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE

4.11.2023
CITY COMMENTS

SHEET NAME
SEG (E) 4TH FLOOR & ROOF FRAMING PLANS

SHEET NO.
S2.26

GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.
3. REVISED / UPDATED ROOF FRAMING & ASSOCIATED SECTION DETAILS. △1

4/11/2023 5:32:39 PM

ARCH E1.30" x 42"

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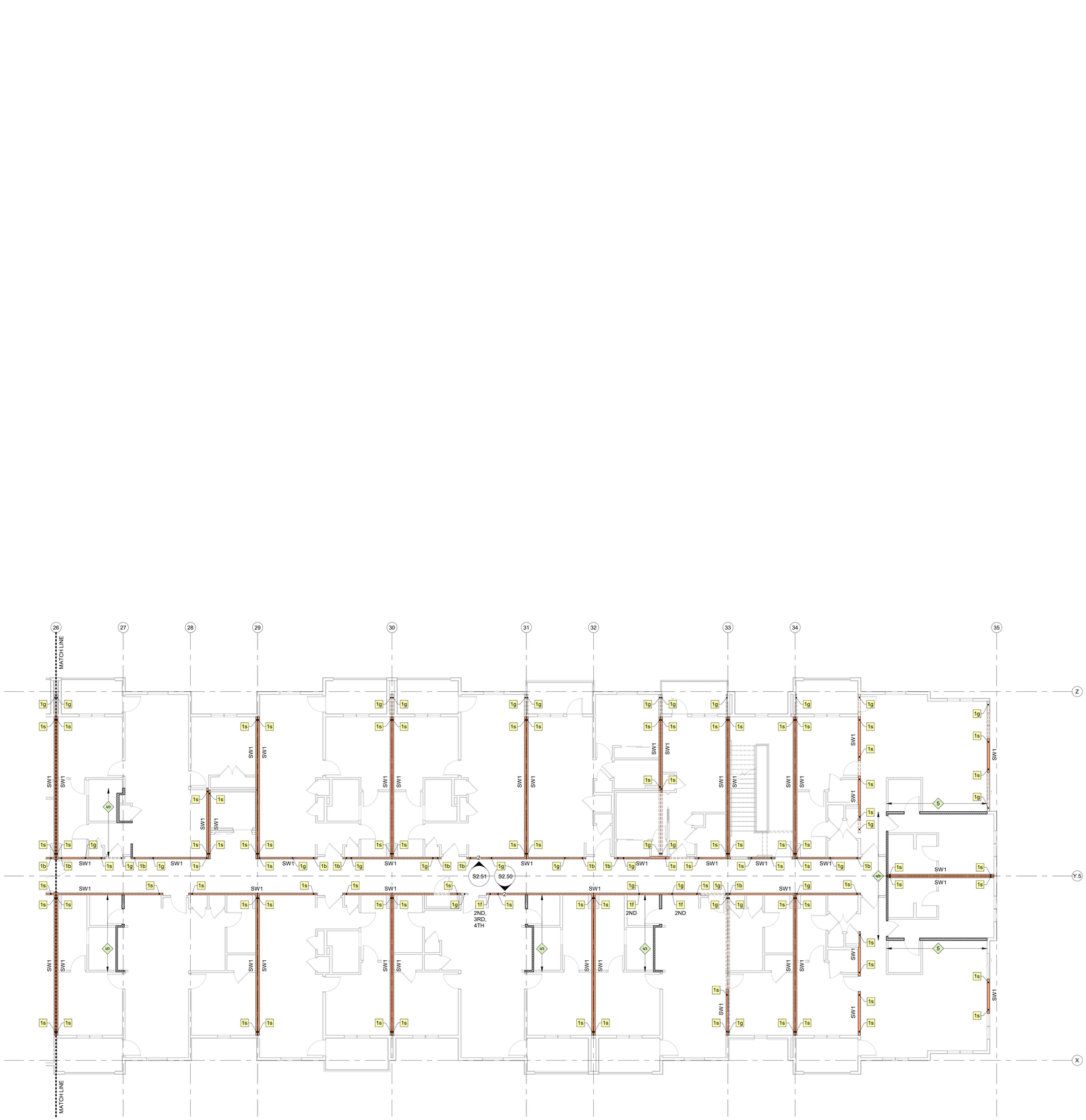
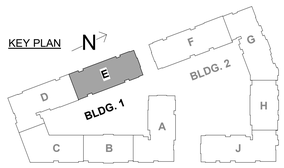


1 SEGMENT E - SHEARWALL / HOLDOWN PLAN
1/8" = 1'-0"

NOTES:
1. SHEARWALL PLANS ARE SHOWN @ 4TH FLOOR FRAMING (3RD FLR. LN.) W/ 2ND (1ST FLR. LN.) & 1ST (0 BSMT. LN.) FLOOR FRMG. SHEARWALL UNDERLAYS FOR REFERENCE / COORDINATION.
2. RE: BLDG. 1 (SEGMENTS D / E) & BLDG. 2 (SEGMENTS G / H / J) SHEARWALL ELEVATIONS FOR TYPICAL CONDITIONS WHERE FLOOR-TO-FLOOR OR FLOOR-TO-BEAM HOLDOWNS ARE REQ'D.
3. RE: DETAILS 1A & 1B FOR HOLDOWNS @ GARAGE PORTAL FRAMES @ UNIT BLDG's.

KEY PLAN N



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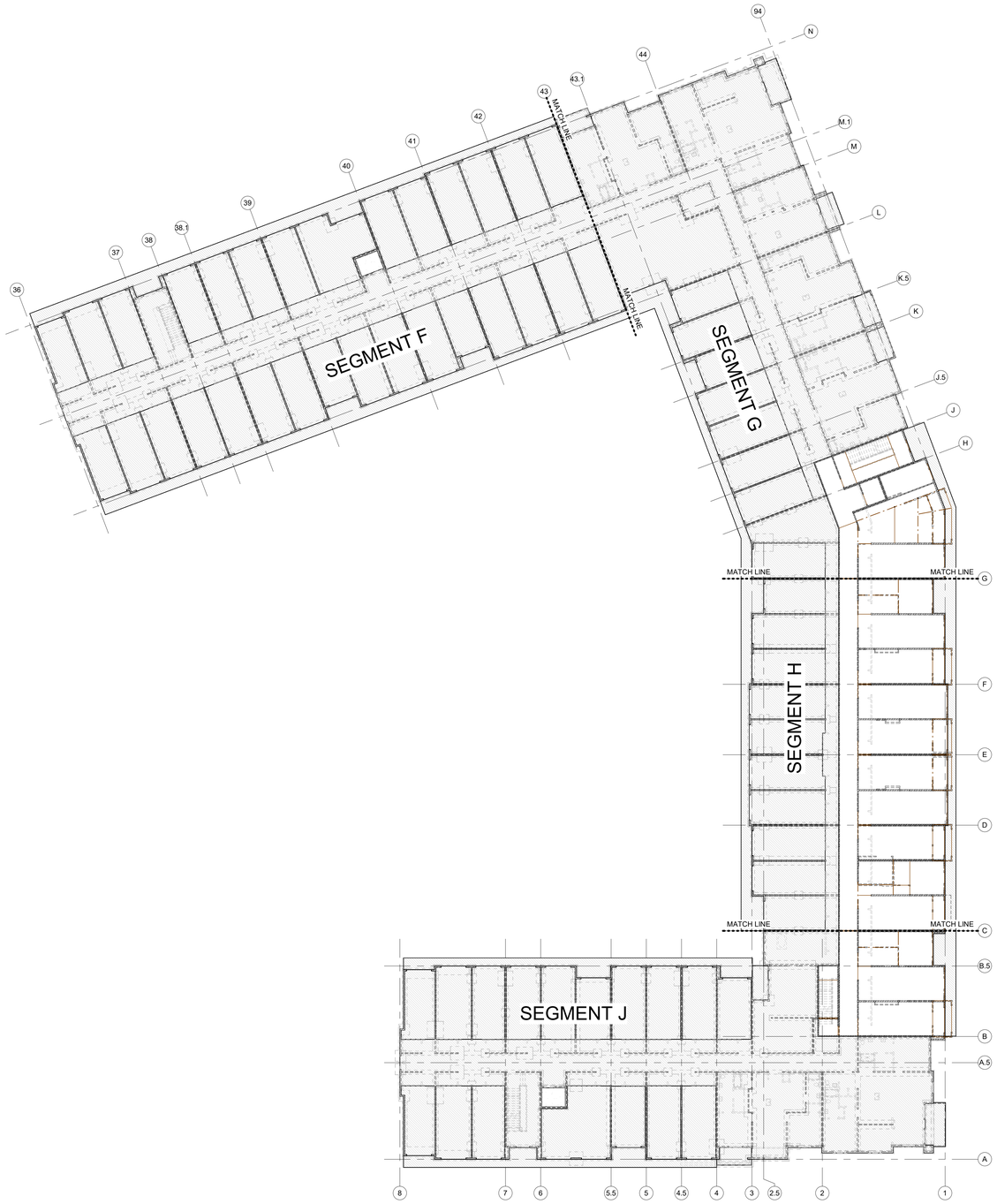
CITY COMMENTS

SHEET NAME
SEG (E) SHEARWALL PLAN

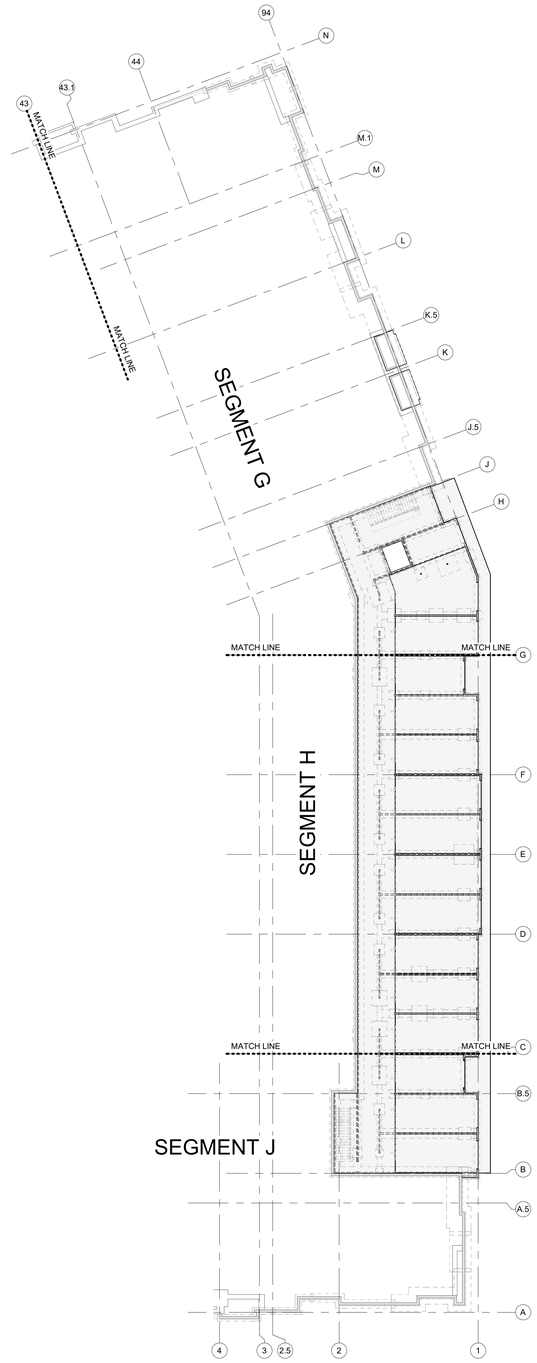
SHEET NO.
S2.26a

4/11/2023 5:32:57 PM

ARCH E1.30" x 42"



1 BLDG 2 - OVERALL PT SLAB PLAN N
1" = 20'-0"



2 BLDG 2 - OVERALL BASEMENT PT SLAB PLAN N
1" = 20'-0"

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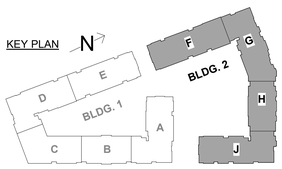

JOB NO. PN1129
DATE 03/15/23
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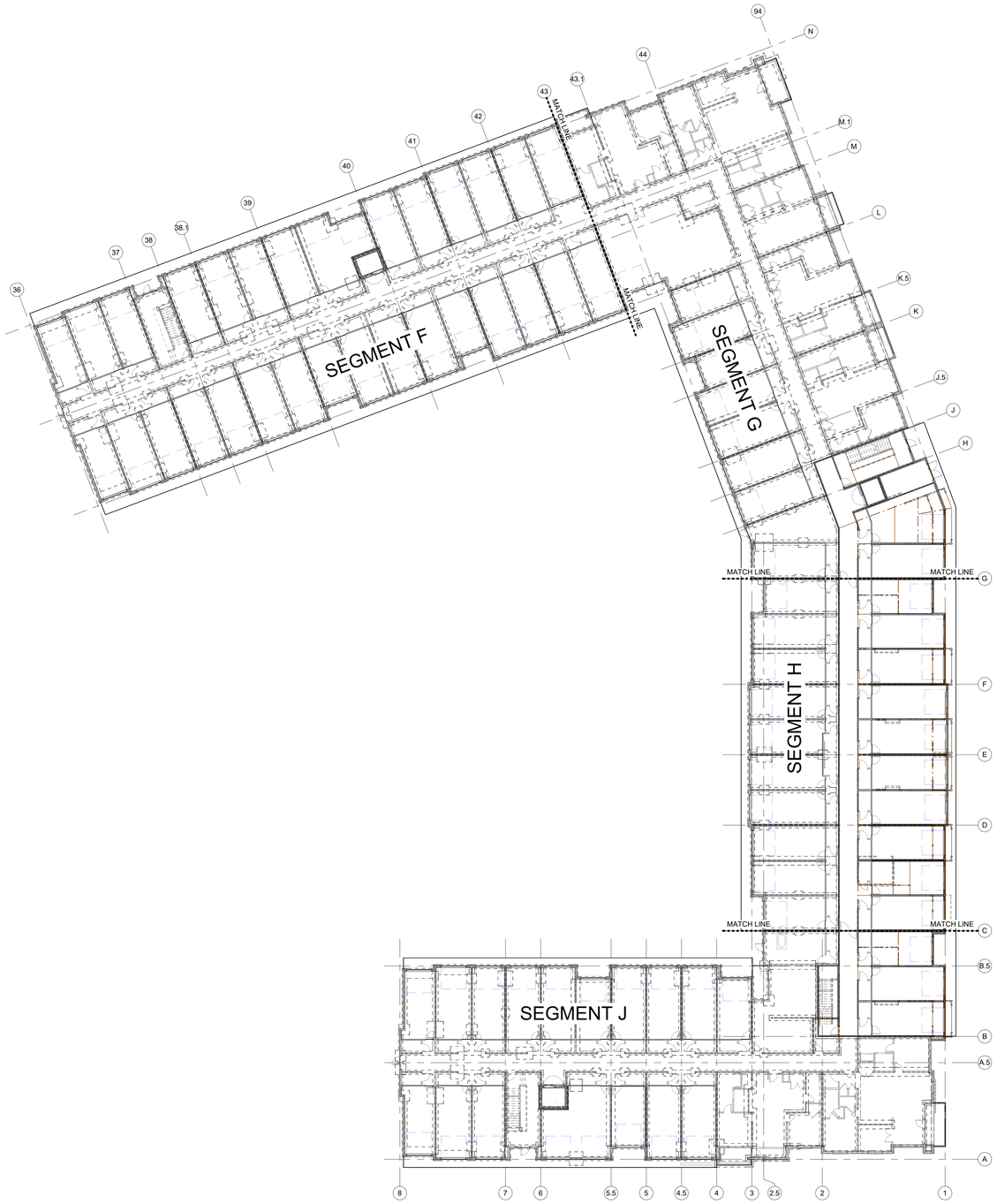
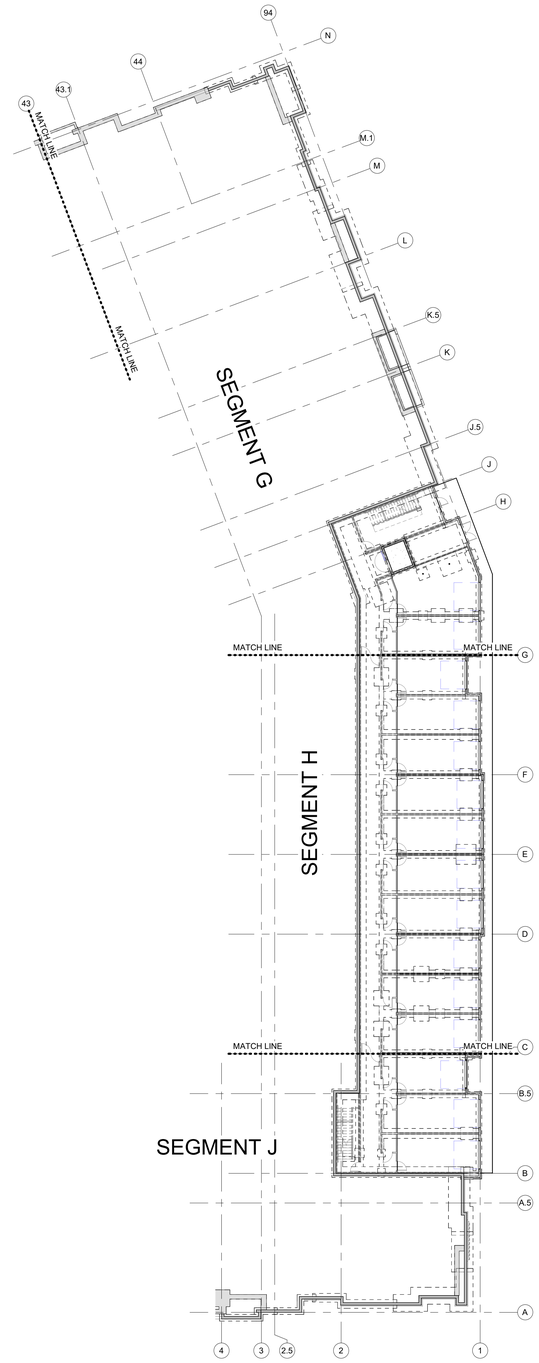
4.11.2023 CITY COMMENTS
SHEET NAME BLDG 2 - OVERALL PT SLAB PLANS
SHEET NO. S2.30

4/11/2023 5:33:11 PM

ARCH E1.30" x 42"

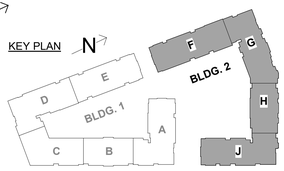


1 BLDG 2 - OVERALL 1ST FLOOR FOUNDATION & FRAMING PLAN
1" = 20'-0"



2 BLDG 2 - OVERALL BASEMENT FOUNDATION PLAN
1" = 20'-0"

KEY PLAN N



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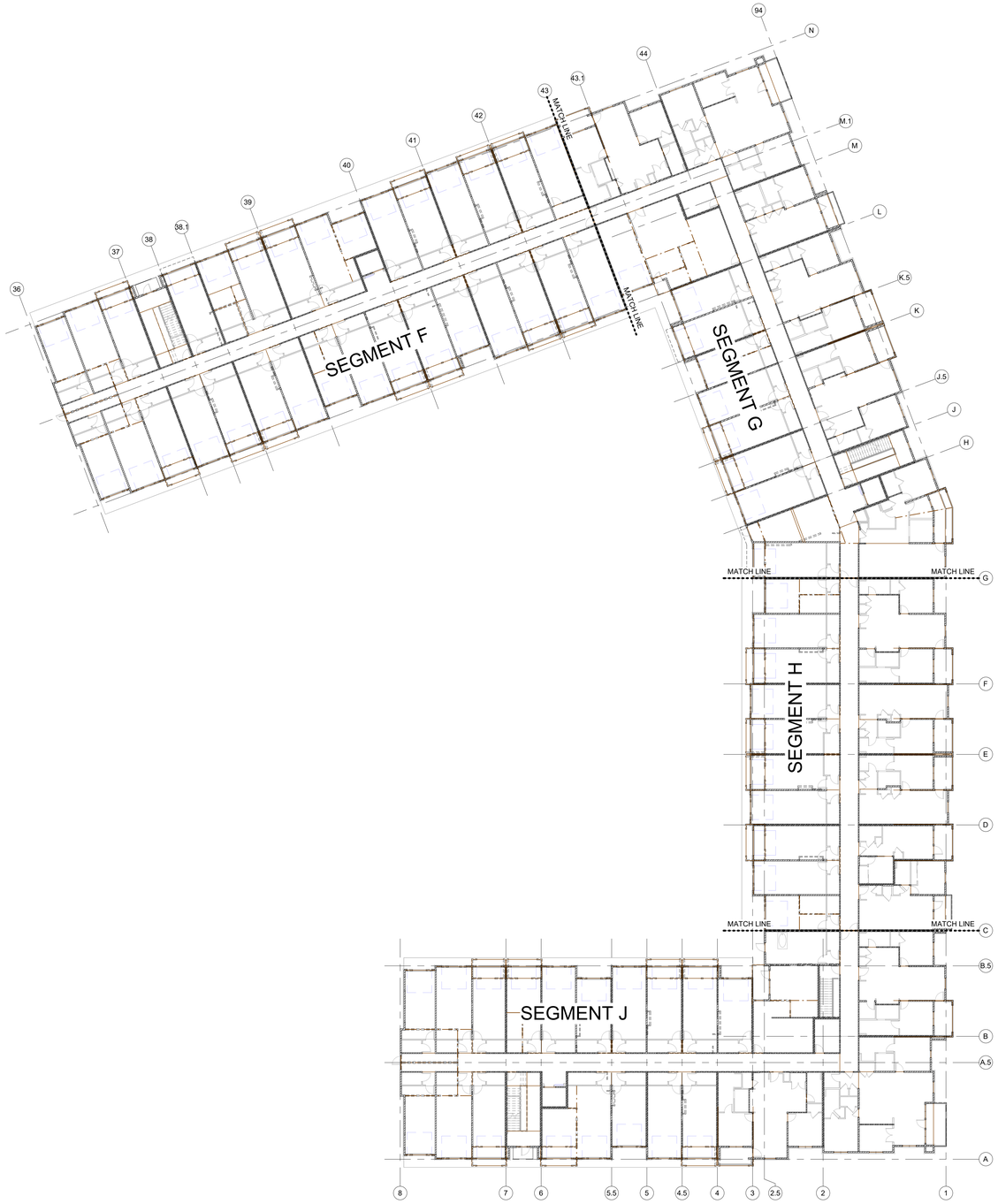
SHEET NAME
BLDG 2 - OVERALL FDN. & 1ST FLOOR FRAMING PLANS
SHEET NO.
S2.31

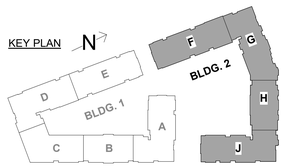
4/11/2023 5:33:29 PM

ARCH E1.30" x 42"



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

KEY PLAN N



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4.11.2023
CITY COMMENTS
SHEET NAME
BLDG 2 - OVERALL 2ND FLOOR FRAMING PLAN
SHEET NO.
S2.32

4/11/2023 5:33:34 PM

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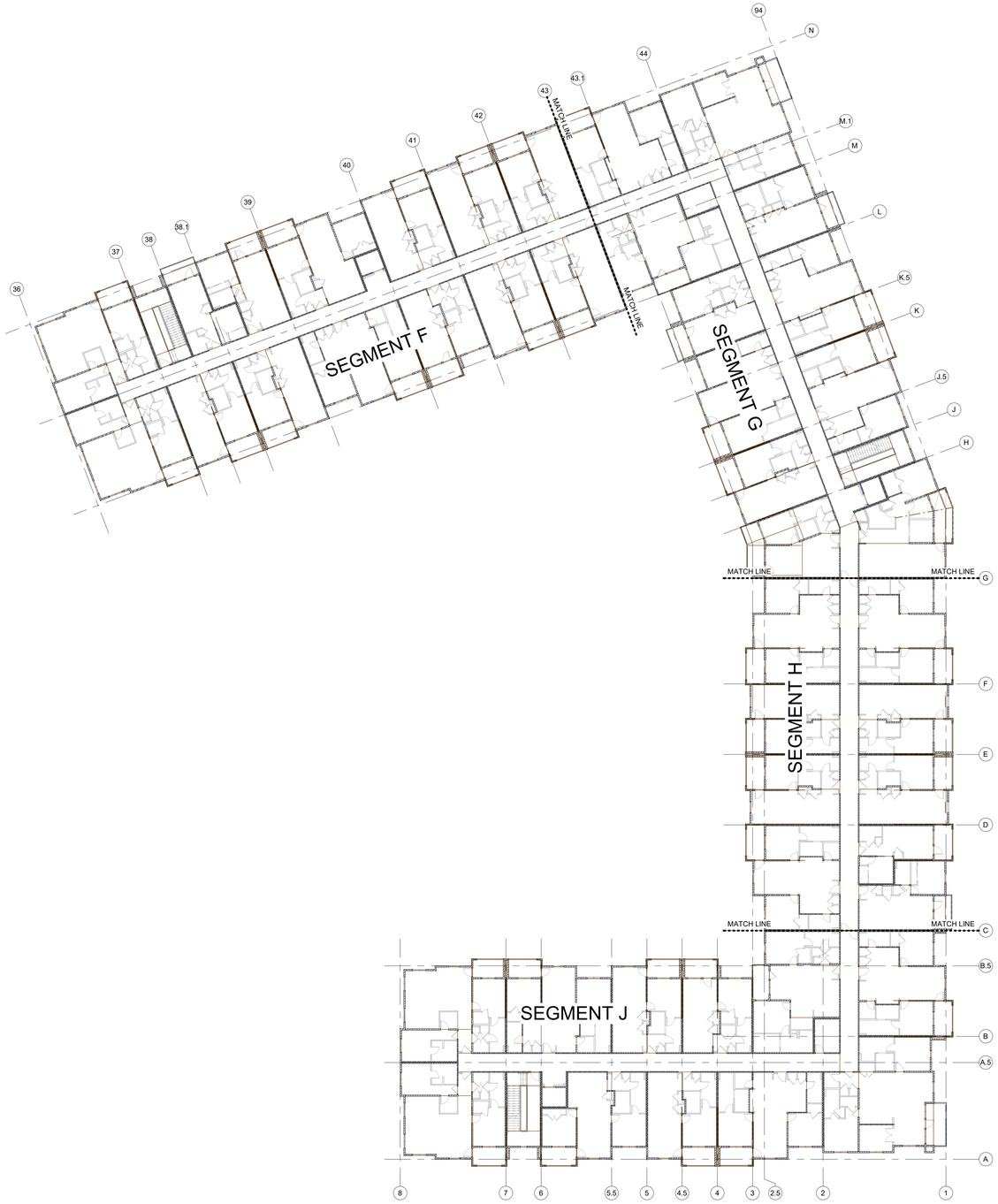
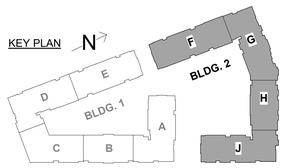


1 BLDG 2 - OVERALL 3RD FLOOR FRAMING PLAN N
1" = 20'-0"

KEY PLAN N



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DATE 03/15/23
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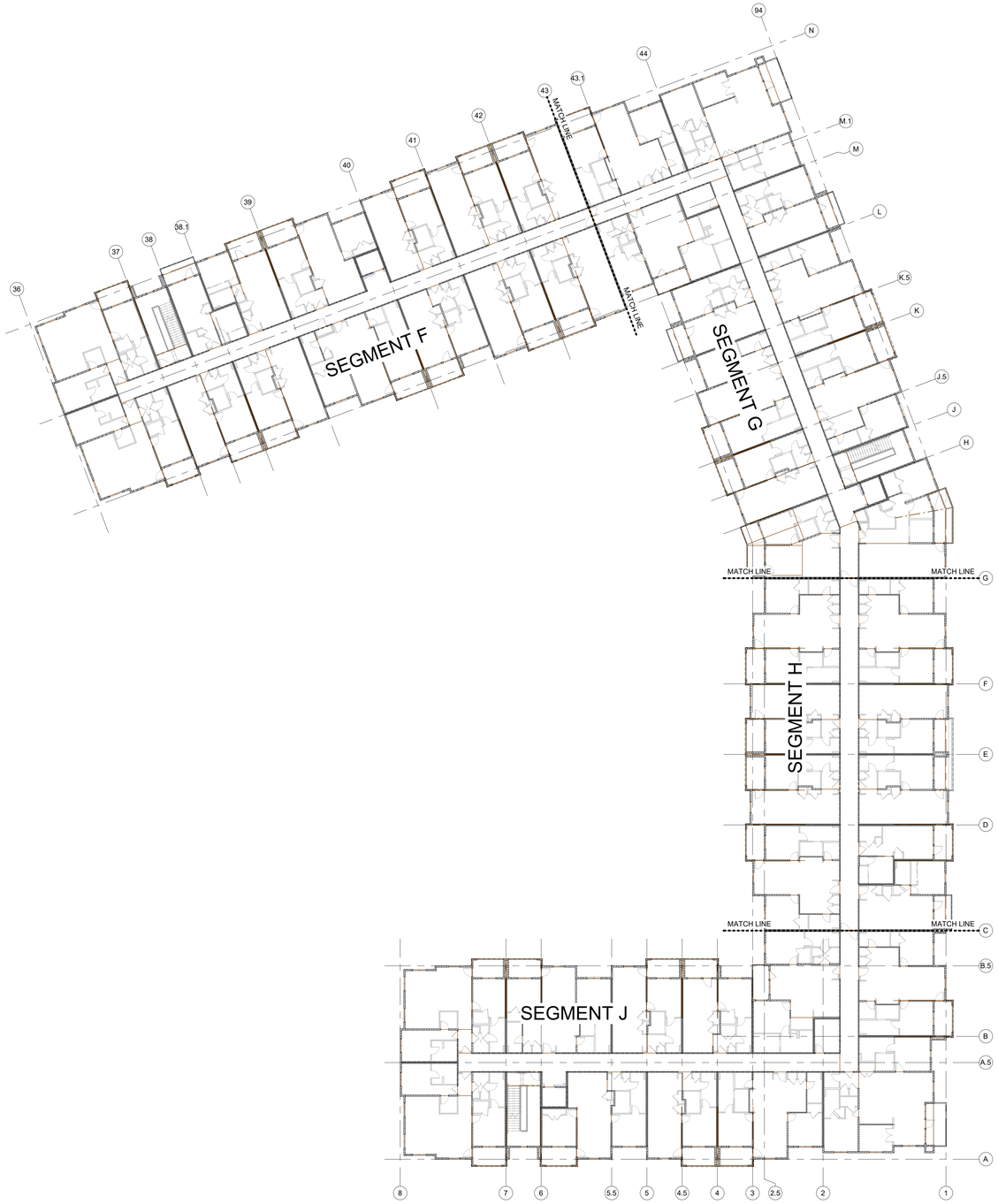
4.11.2023
CITY COMMENTS
SHEET NAME
BLDG 2 - OVERALL 3RD FLOOR FRAMING PLAN
SHEET NO.
S2.33

4/11/2023 5:33:40 PM

ARCH E1.30" x 42"



1 BLDG 2 - OVERALL 4TH FLOOR FRAMING PLAN
1" = 20'-0"

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JOHN A. GRIFFIN
NUMBER PE-2005000284
PROFESSIONAL ENGINEER
04.11.23

KRUDWIG STRUCTURAL ENGINEERS
11200 Corporate Ave., Suite 110 Lenexa, Kansas 66219

A NEW RESIDENTIAL COMMUNITY AT::
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DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

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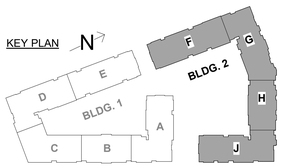
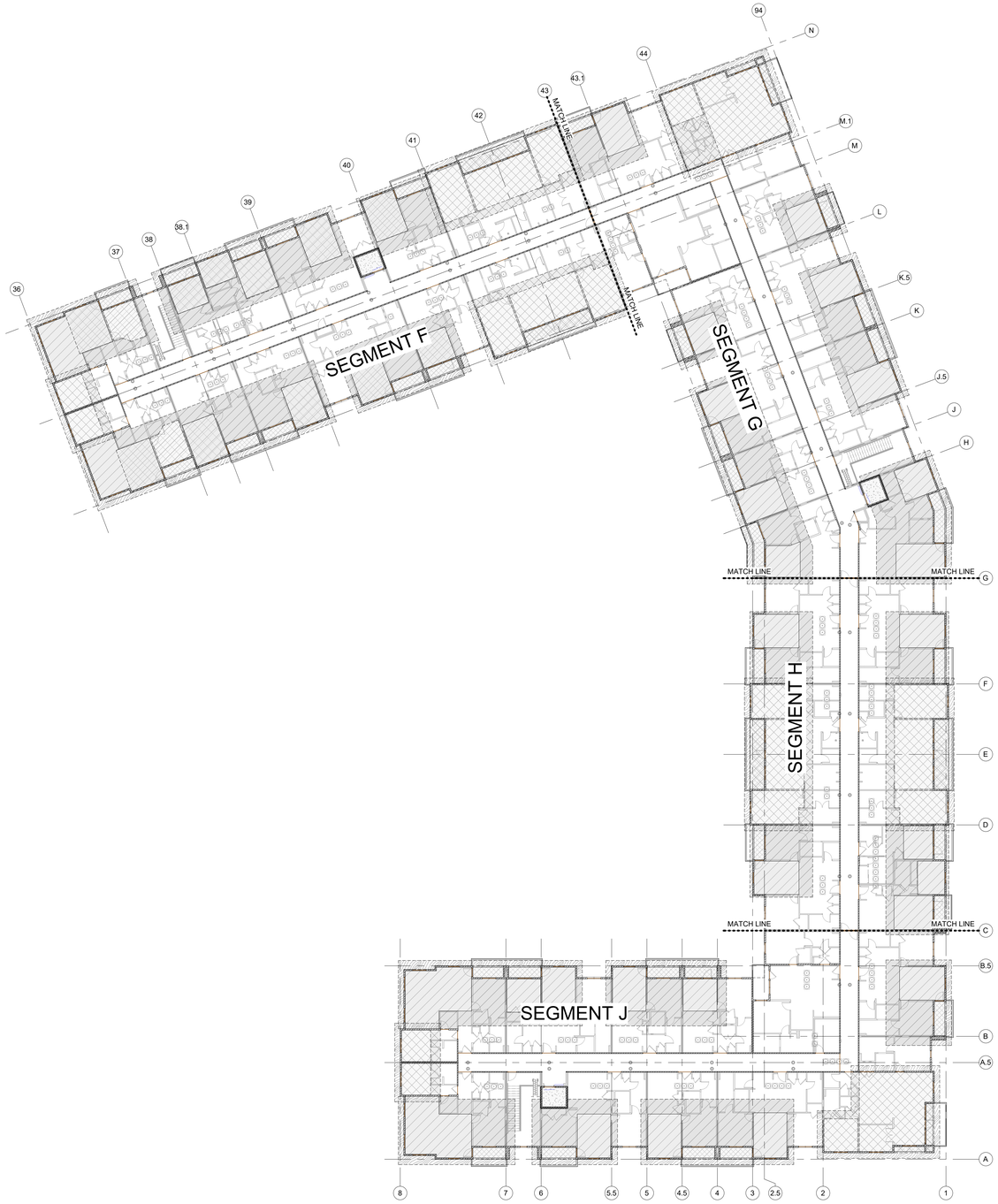
KEY PLAN N



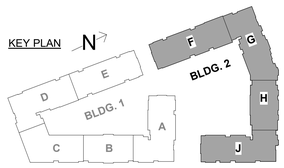
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME BLDG 2 - OVERALL 4TH FLOOR FRAMING PLAN
SHEET NO. S2.34

4/11/2023 5:33:45 PM

ARCH E1.30" x 42"



1 BLDG 2 - OVERALL ROOF FRAMING PLAN
1" = 20'-0"



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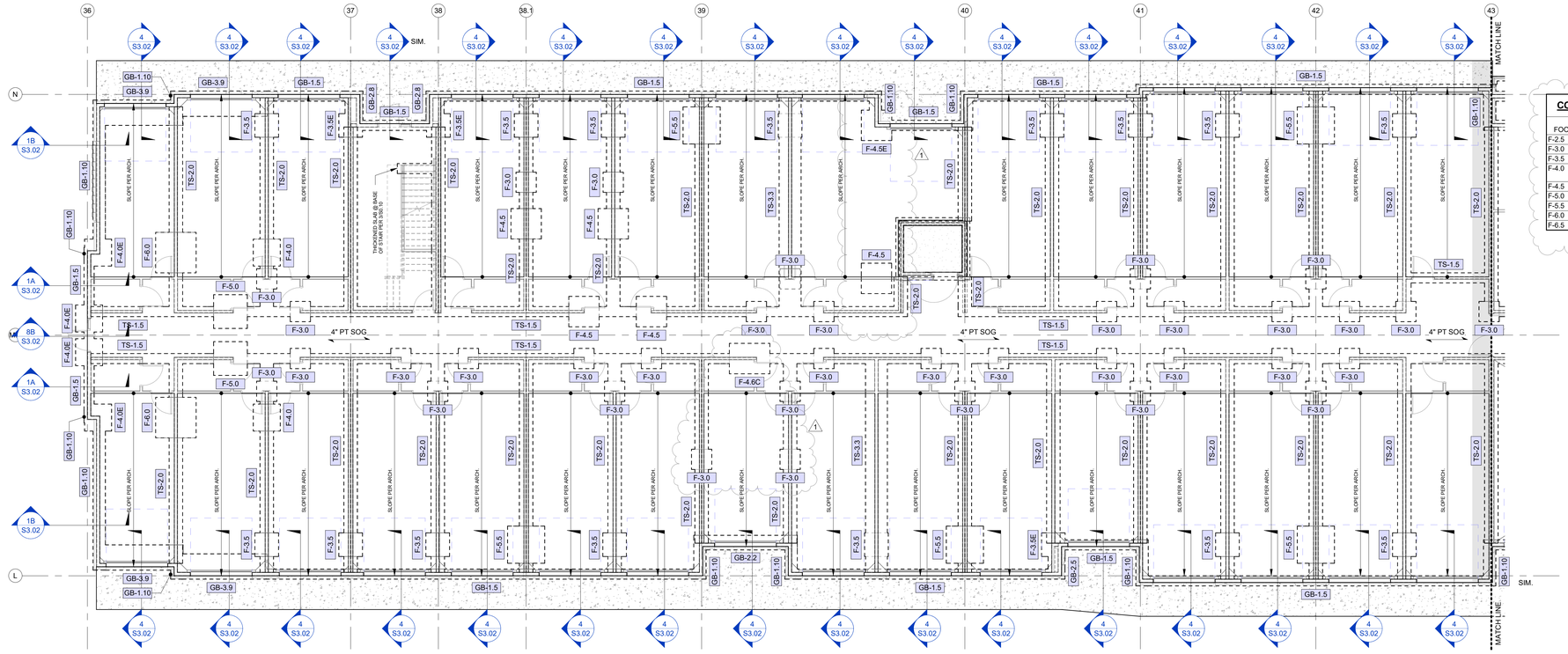
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME BLDG 2 - OVERALL ROOF FRAMING PLAN
SHEET NO. S2.35

4/11/2023 5:33:51 PM

ARCH E1.30" x 42"



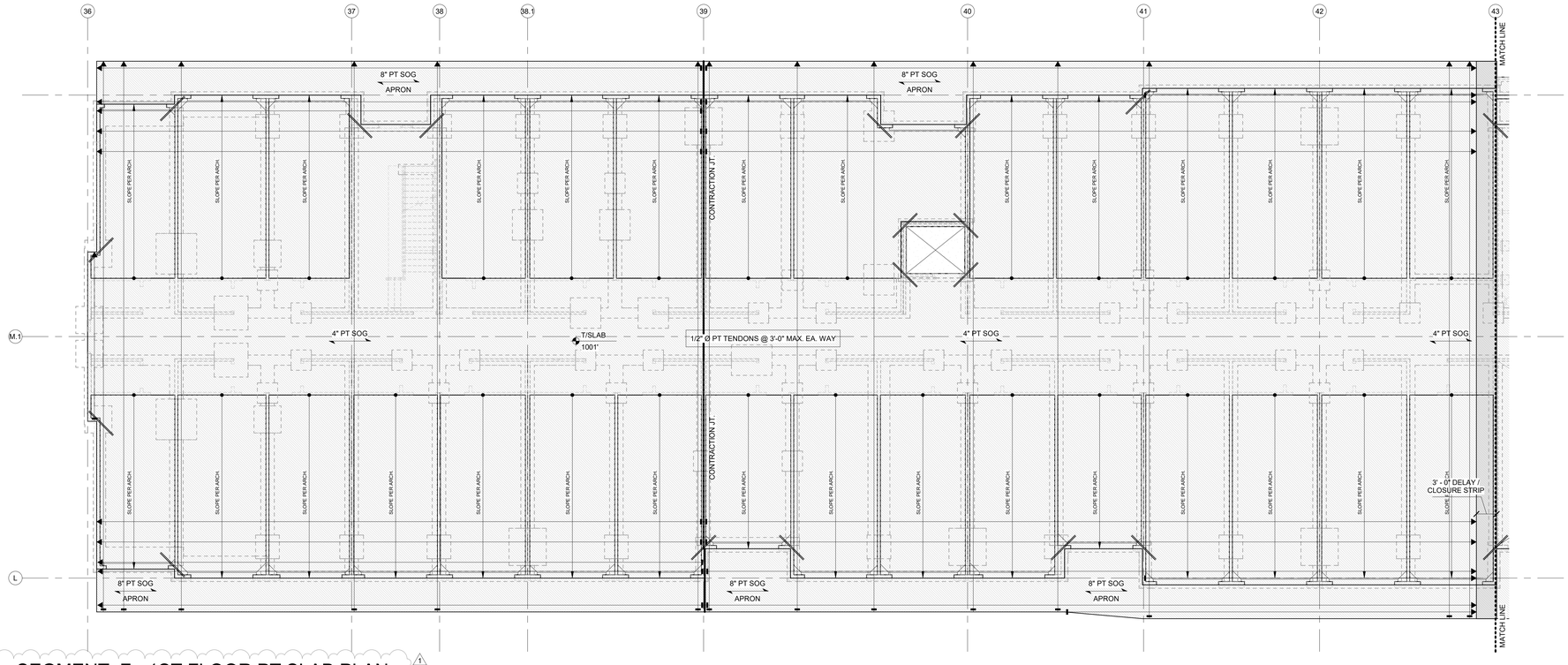
1 SEGMENT F - 1ST FLOOR FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

COL./STUD PACK OPTIONS BY FTG. SIZE (1ST FLR. / BASEMENT)

FOOTING	GLULAM COL's (28F-E1 SP/SP (U))	STUD PACKS	A53 Gr. B xS COL's	A53 Gr. B xxS COL's
F-2.5	3 1/2" x 5 1/2"	(3) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.0	3 1/2" x 5 1/2"	(4) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.5	3 1/2" x 5 1/2"	(5) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.0	3 1/2" x 7" --OR-- 5 1/2" x 5 1/2"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.5	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.0	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.5	5 1/2" x 7"	N/A	4" Ø xS PIPE	3" Ø xxS PIPE
F-6.0	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE
F-6.5	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE



2 SEGMENT F - 1ST FLOOR PT SLAB PLAN

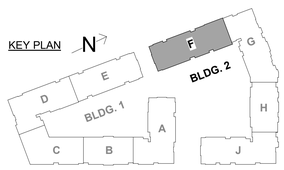
1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

KEY PLAN



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04.11.23

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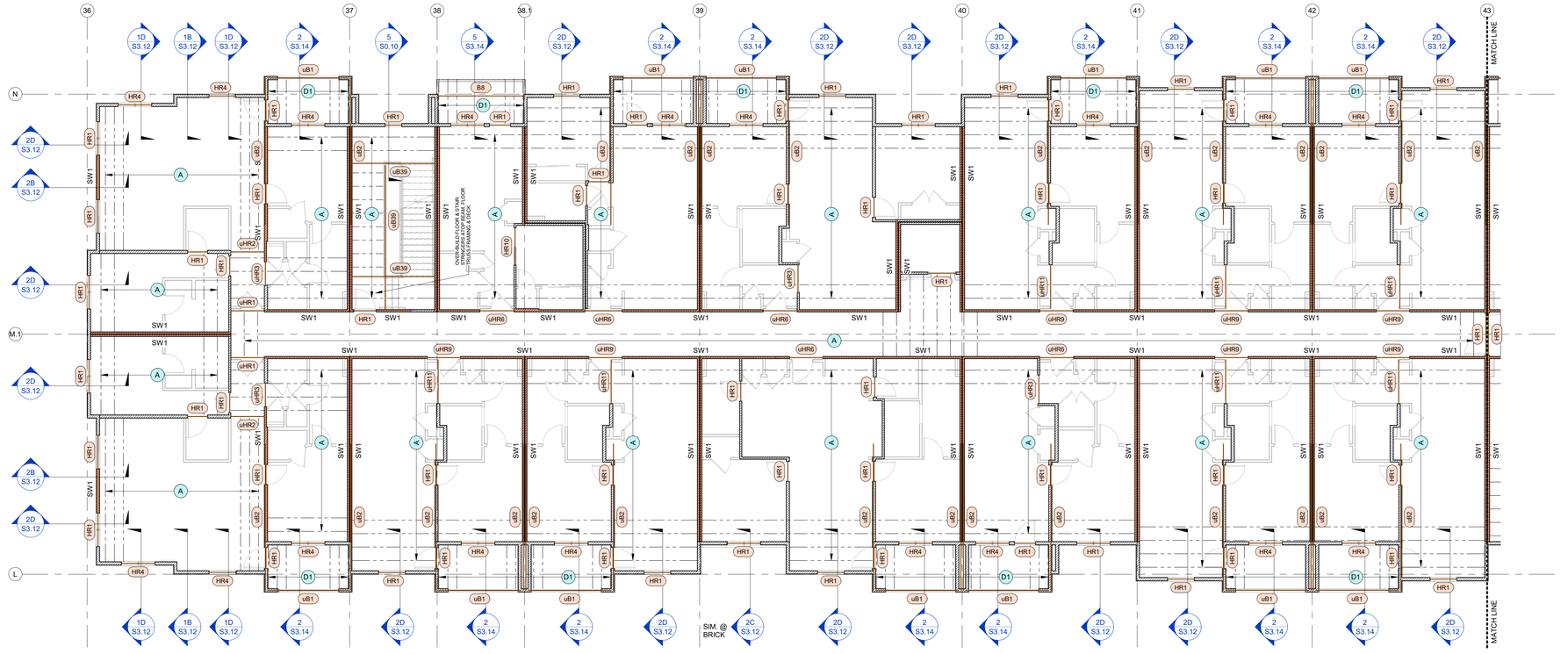
1 23.0411 CITY COMMENTS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (F) 1ST FLOOR PT SLAB & FDN. PLANS
SHEET NO. S2.36

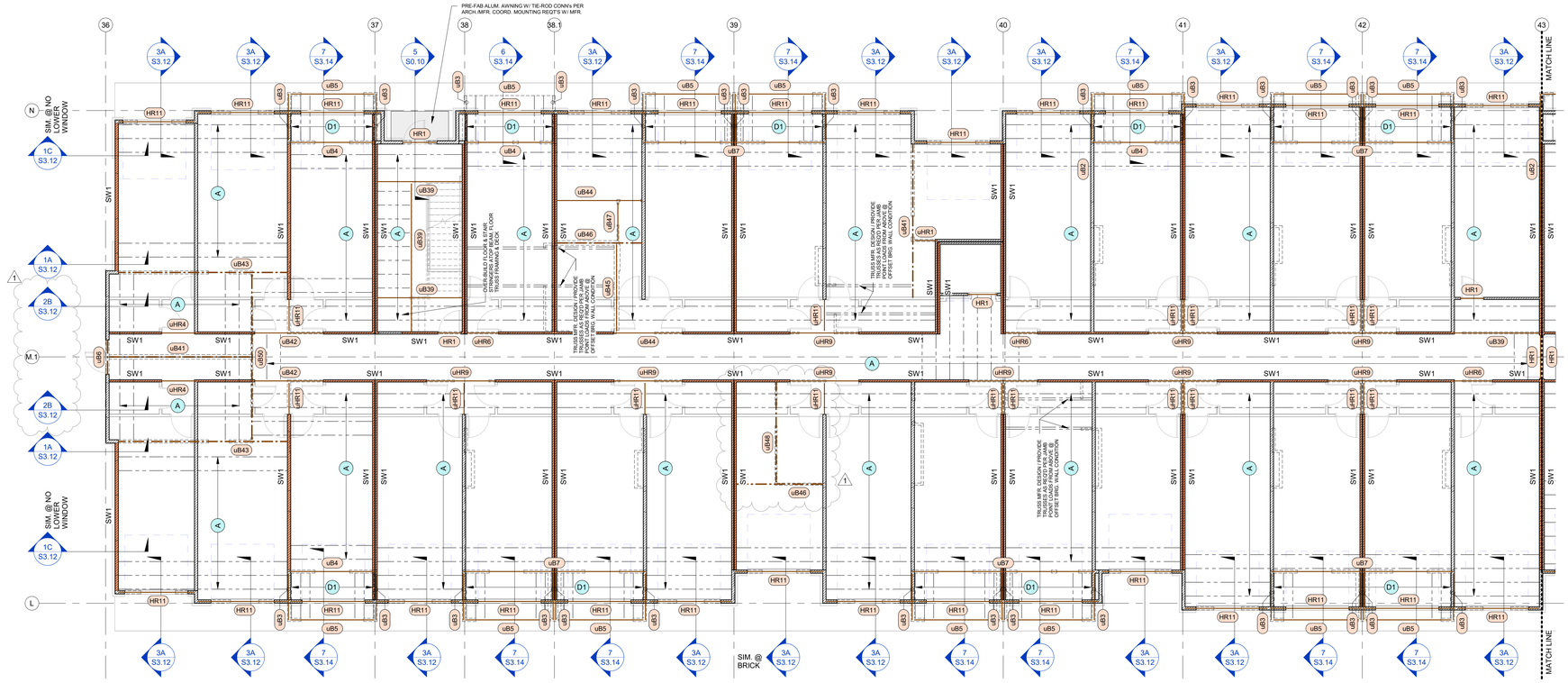
4/11/2023 5:34:12 PM

ARCH E1.30" x 42"



1 SEGMENT F - 3RD FLOOR FRAMING PLAN

1/8" = 1'-0"



2 SEGMENT F - 2ND FLOOR FRAMING PLAN

1/8" = 1'-0"

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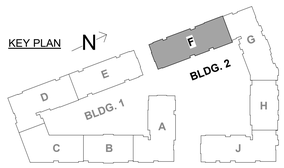
KEY PLAN

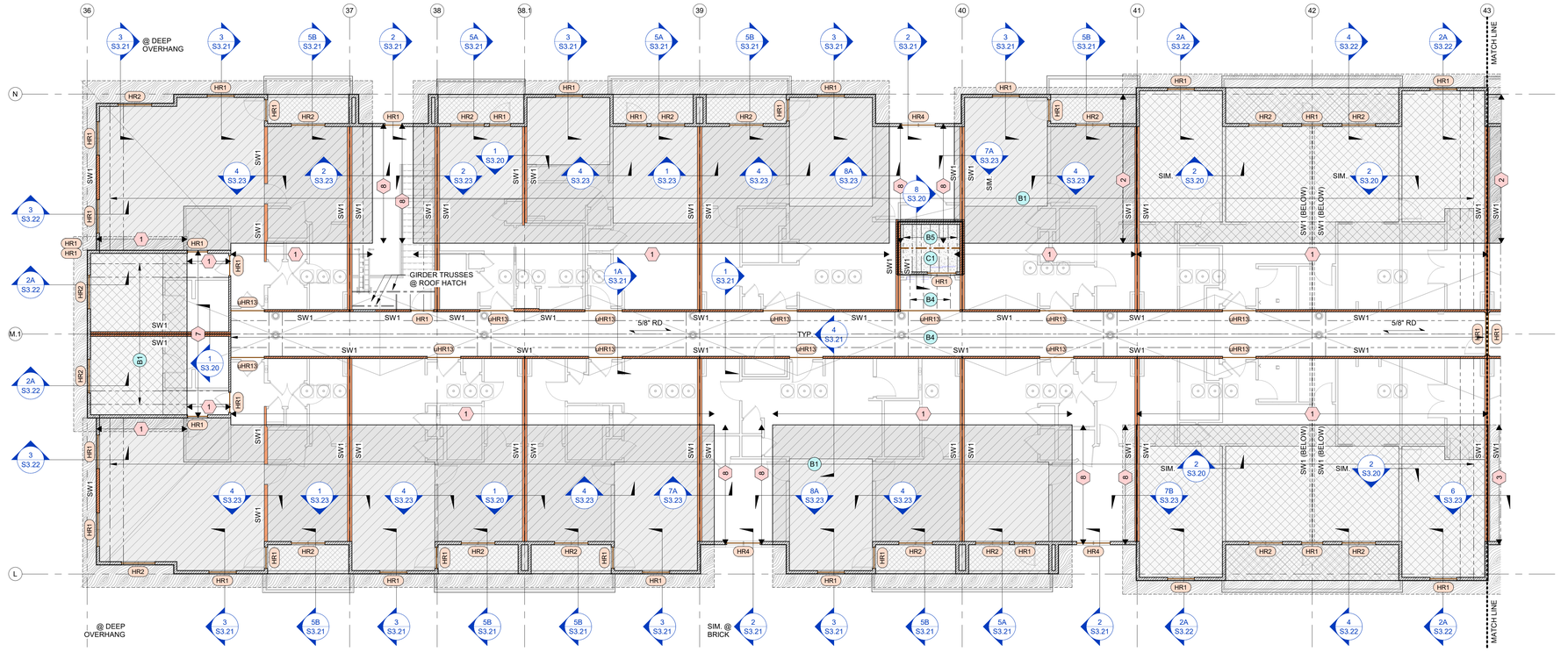


GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (F) 2ND & 3RD FLOOR FRAMING PLAN
SHEET NO. S2.37

4/11/2023 5:34:57 PM

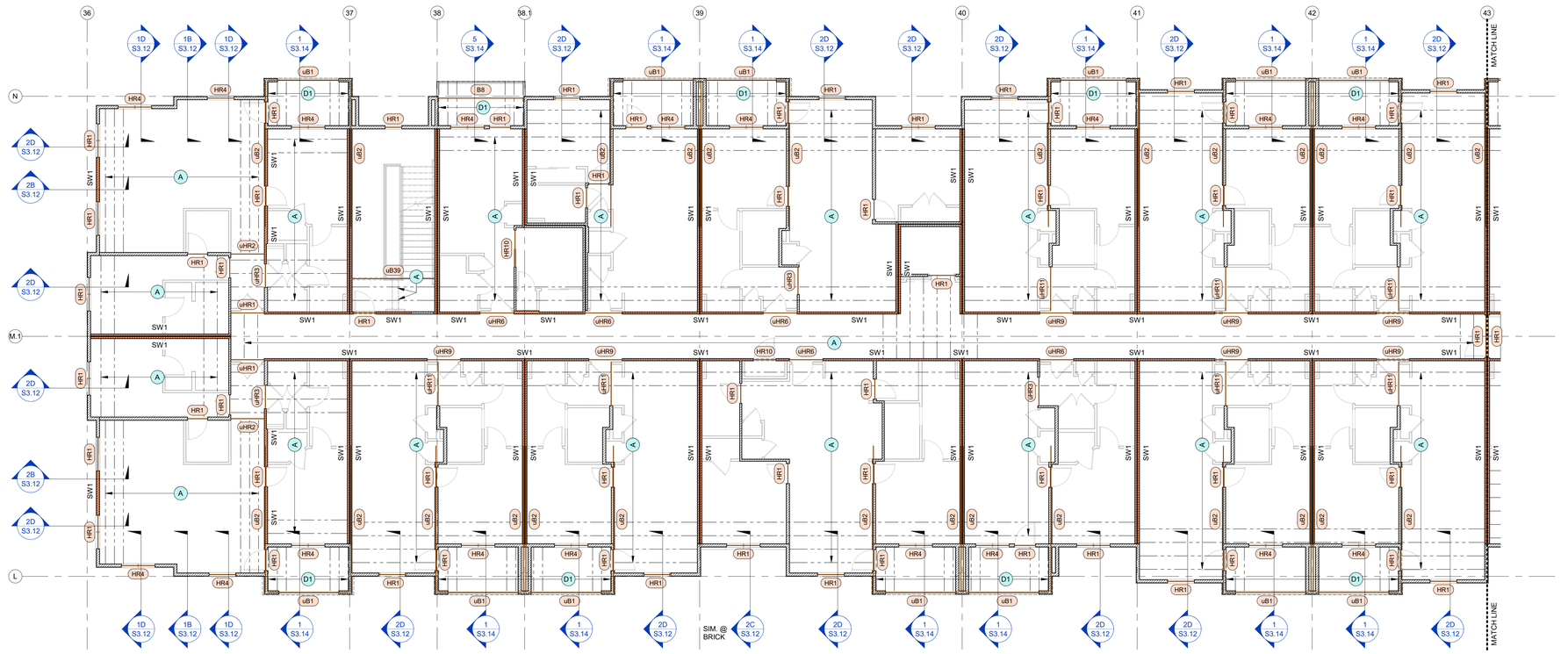
ARCH E1.30" x 42"



1 SEGMENT F - ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO SNOW DRIFT LOADING DIAGRAMS ON SHEET S0.02.
2. RE: ARCH. DWG's FOR ALTERNATING TREAD DEVICE / ROOF ACCESS HATCH LOCATIONS & COORD. W/ STAIR ORIENTATIONS AS REQ'D.



2 SEGMENT F - 4TH FLOOR FRAMING PLAN

1/8" = 1'-0"

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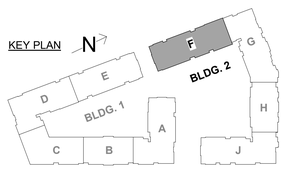
KEY PLAN



GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.
3. REVISED / UPDATED ROOF FRAMING & ASSOCIATED SECTION DETAILS.

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (F) 4TH FLOOR & ROOF FRAMING PLAN
SHEET NO. S2.38

4/11/2023 5:35:38 PM

ARCH E1.30" x 42"

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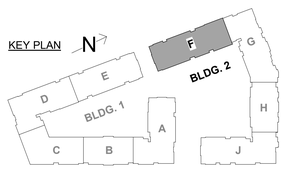
1 SEGMENT F - SHEARWALL / HOLDOWN PLAN
1/8" = 1'-0"

NOTES:
1. SHEARWALL PLANS ARE SHOWN @ 4TH FLOOR FRAMING (3RD FLR. LN.) W/ 2ND (1ST FLR. LN.) & 1ST (0 BSMT. LN.) FLOOR FRMG. SHEARWALL UNDERLAYS FOR REFERENCE / COORDINATION.
2. RE: BLDG. 1 (SEGMENTS D / E) & BLDG. 2 (SEGMENTS G / H / J) SHEARWALL ELEVATIONS FOR TYPICAL CONDITIONS WHERE FLOOR-TO-FLOOR OR FLOOR-TO-BEAM HOLDOWNS ARE REQ'D.
3. RE: DETAILS 1A & 1B FOR HOLDOWNS @ GARAGE PORTAL FRAMES @ UNIT BLDG's.

KEY PLAN N



JOB NO. PN1129
DATE 03/15/23
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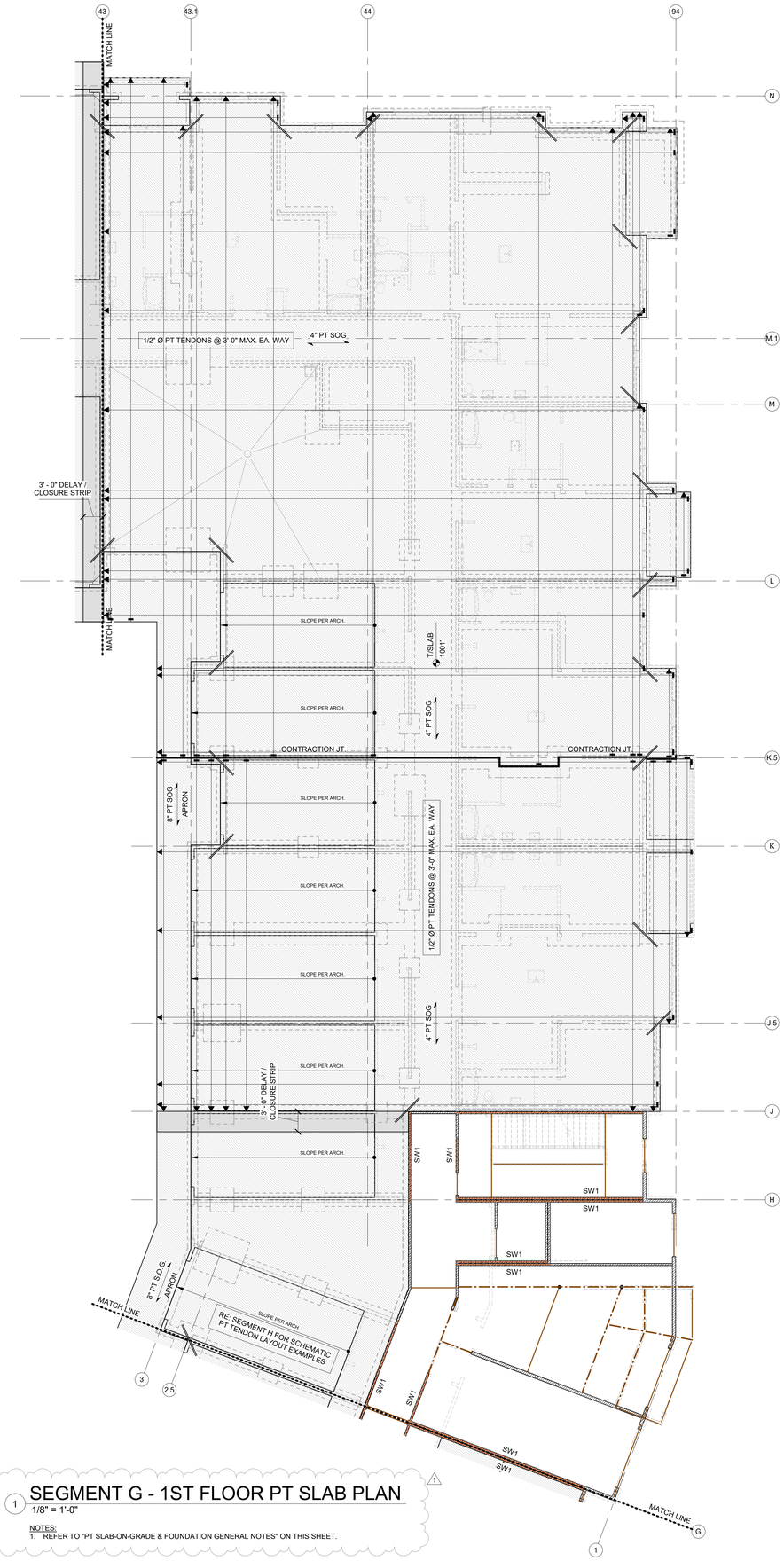
4.11.2023
CITY COMMENTS

SHEET NAME
SEG (F) SHEARWALL PLAN

SHEET NO.
S2.38a

4/11/2023 5:55:58 PM

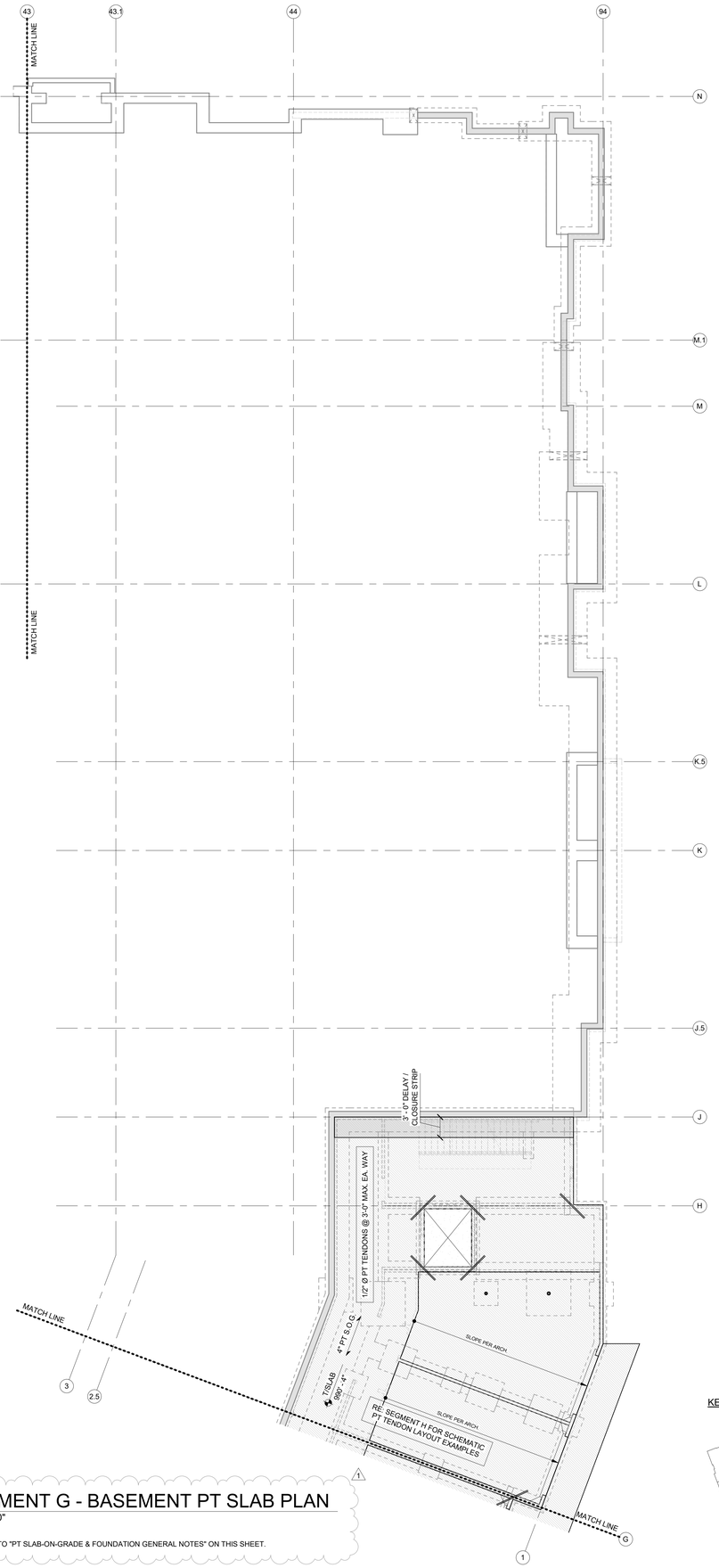
ARCH E1.30" x 42"



1 SEGMENT G - 1ST FLOOR PT SLAB PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.



2 SEGMENT G - BASEMENT PT SLAB PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES. SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

△1

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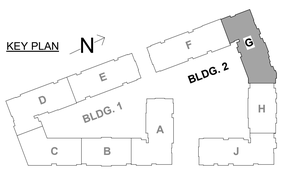
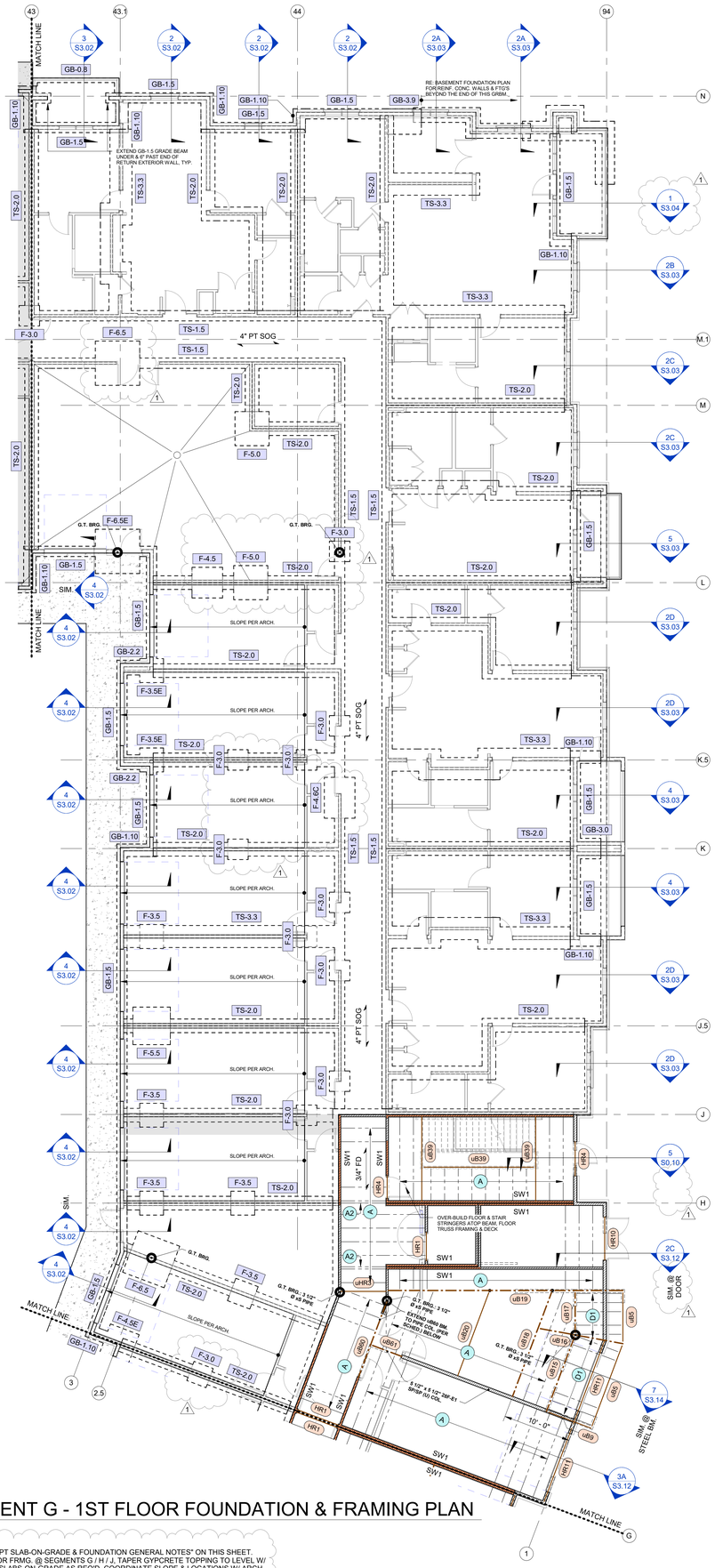


JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (G) BASEMENT & 1ST FLOOR PT SLAB PLANS
SHEET NO. S2.39a

4/11/2023 5:36:11 PM

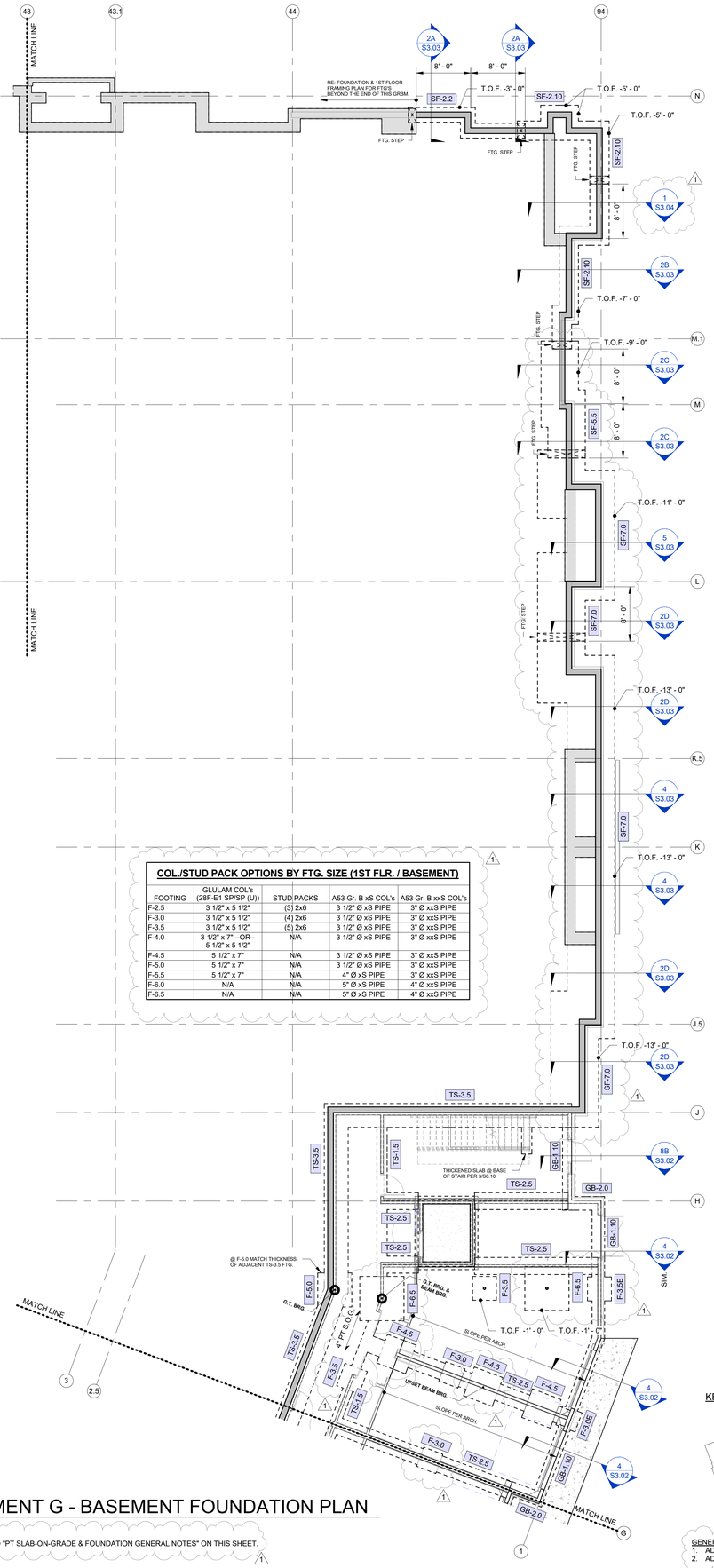
ARCH E1.30" x 42"



1 SEGMENT G - 1ST FLOOR FOUNDATION & FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.
2. @ 1ST FLOOR FRMG. @ SEGMENTS G / H / J, TAPER GYPCRETE TOPPING TO LEVEL W/ ADJACENT SLABS-ON-GRADE AS REQ'D. COORDINATE SLOPE & LOCATIONS W/ ARCH.



2 SEGMENT G - BASEMENT FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

COL./STUD PACK OPTIONS BY FTG. SIZE (1ST FLR. / BASEMENT)

FOOTING	GLULAM COL's (28F-E1 SP/SP (U))	STUD PACKS	A53 Gr. B xS COL's	A53 Gr. B xxS COL's
F-2.5	3 1/2" x 5 1/2"	(3) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.0	3 1/2" x 5 1/2"	(4) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.5	3 1/2" x 5 1/2"	(5) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.0	3 1/2" x 7" --OR-- 5 1/2" x 5 1/2"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.5	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.0	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.5	5 1/2" x 7"	N/A	4" Ø xS PIPE	3" Ø xxS PIPE
F-6.0	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE
F-6.5	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

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2. REFER TO TYPICAL DETAILS ON S3.00 SERIES. SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

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04.11.23

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- 03.13.2023 - PERMIT SUBMITTAL

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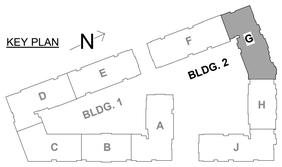
1 23 0411 CITY COMMENTS

KEY PLAN



JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE

4.11.2023
CITY COMMENTS

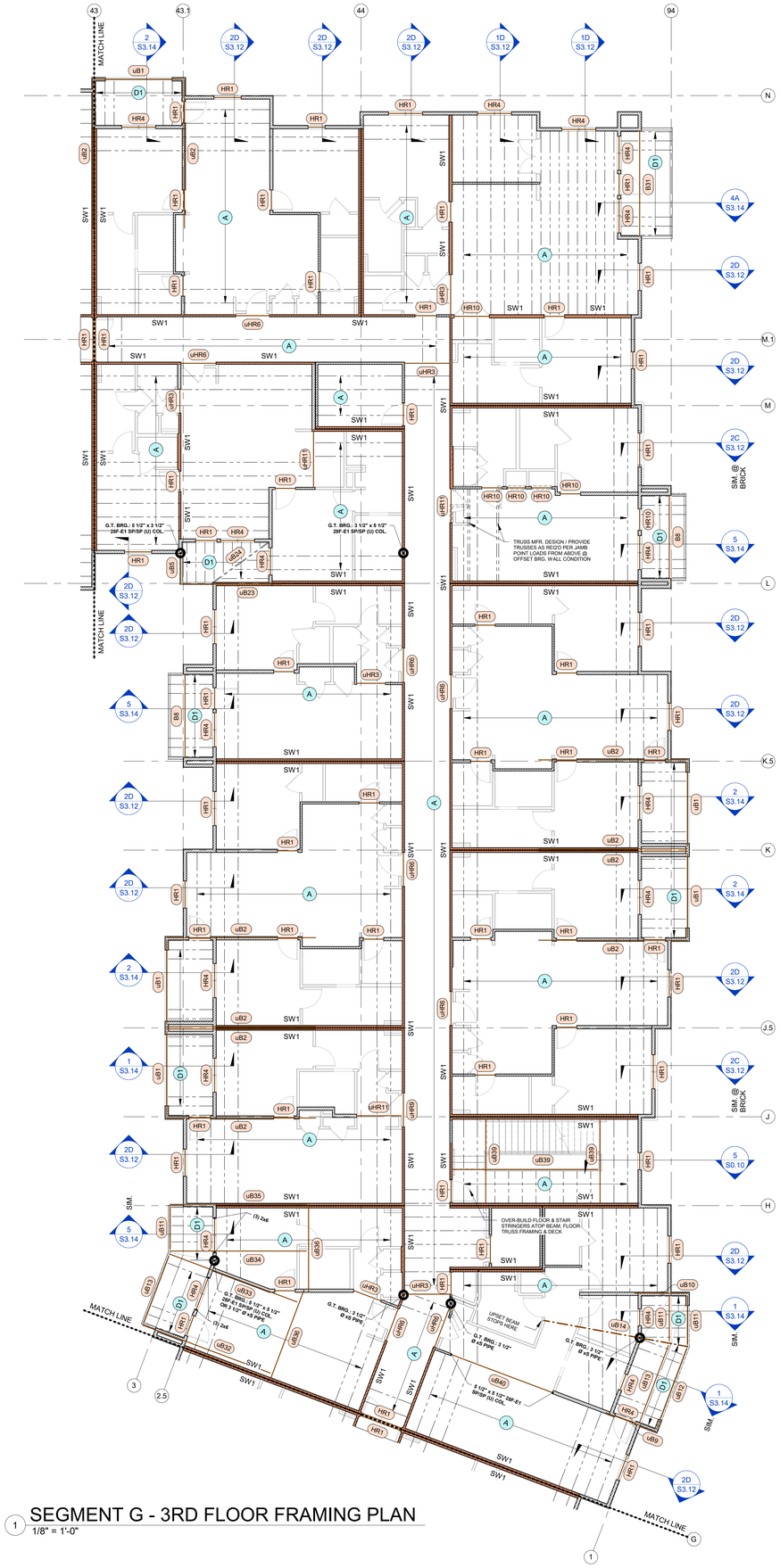
SHEET NAME
SEG (G) FDN. & 1ST FLOOR FRAMING PLANS

SHEET NO.
S2.39b

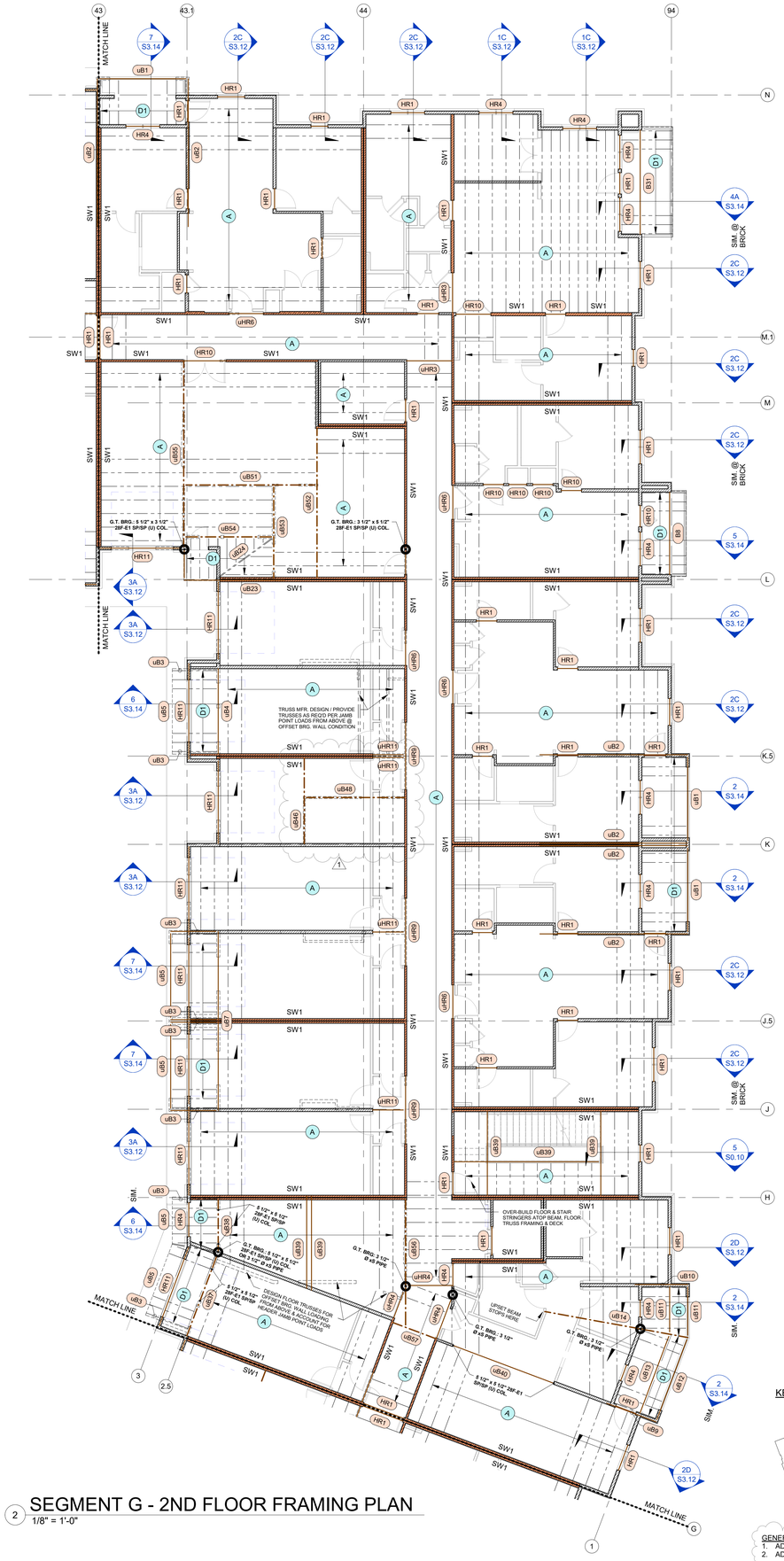
GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

4/11/2023 5:36:30 PM

ARCH E1.30" x 42"



1 SEGMENT G - 3RD FLOOR FRAMING PLAN
1/8" = 1'-0"



2 SEGMENT G - 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

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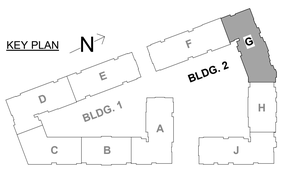
1 23.0411 CITY COMMENTS

KEY PLAN N



GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

1

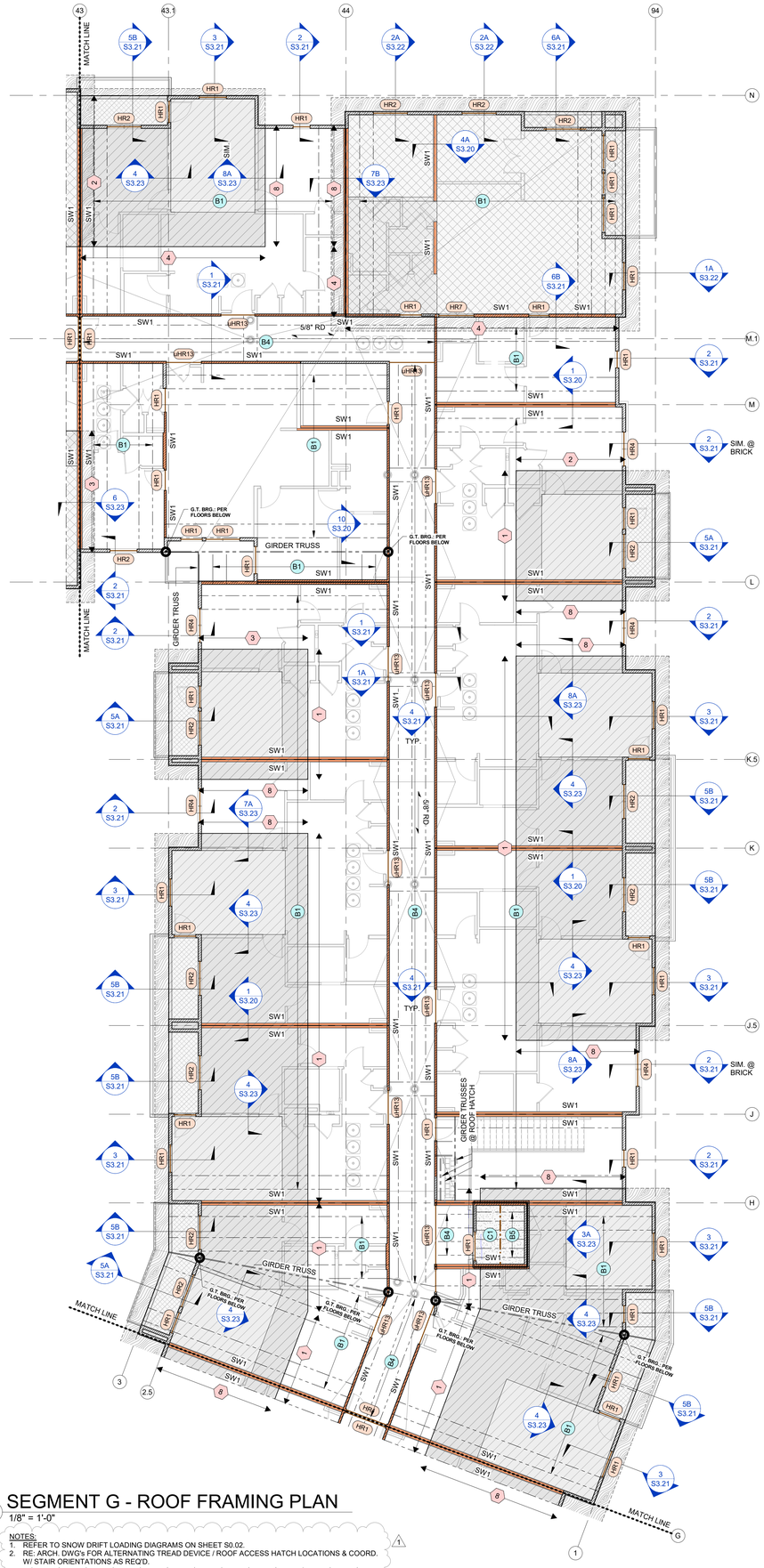
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS

SHEET NAME
SEG (G) 2ND & 3RD FLOOR FRAMING PLANS

SHEET NO.
S2.40

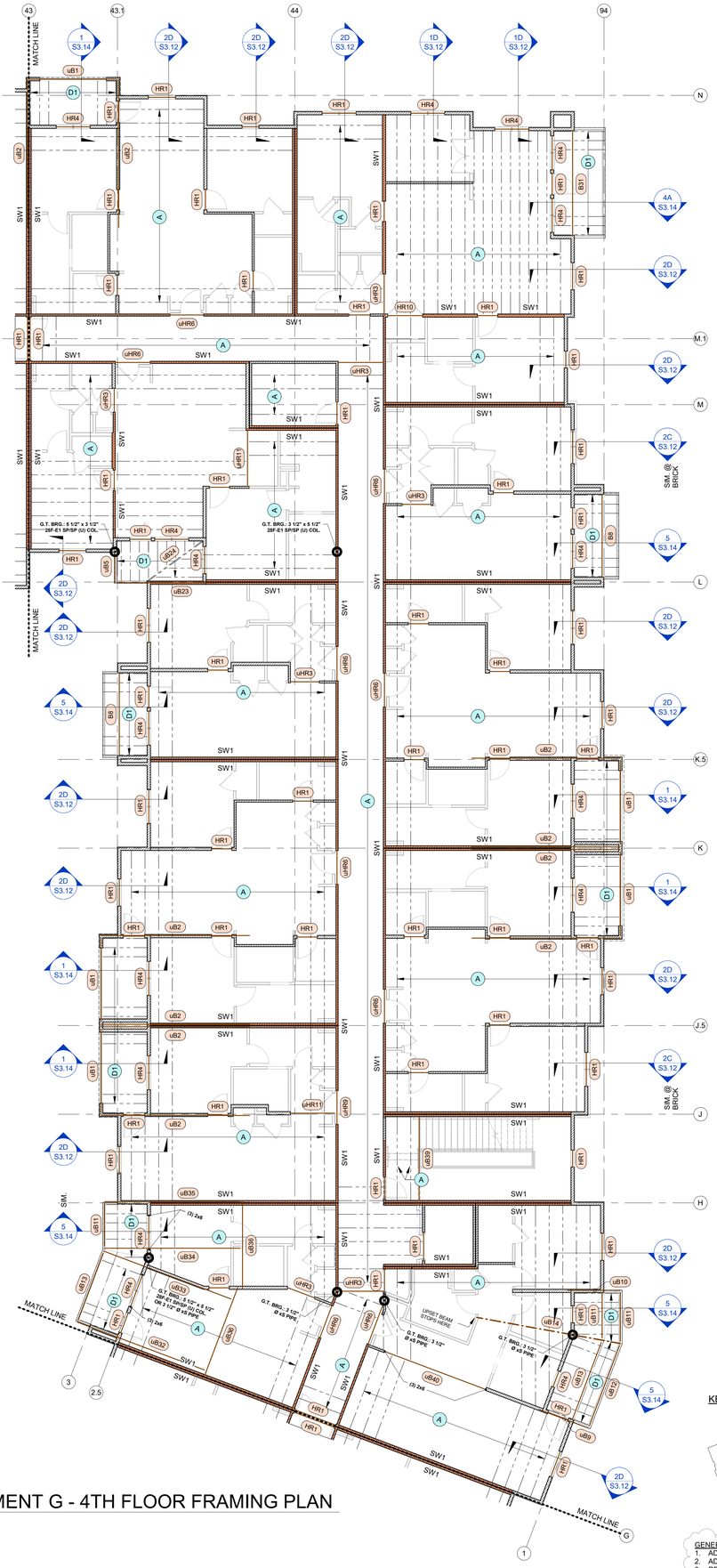
4/11/2023 5:37:14 PM

ARCH E1.30" x 42"



1 SEGMENT G - ROOF FRAMING PLAN
1/8" = 1'-0"

NOTES:
1. REFER TO SNOW DRIFT LOADING DIAGRAMS ON SHEET S0.02.
2. RE: ARCH. DWG's FOR ALTERNATING TREAD DEVICE / ROOF ACCESS HATCH LOCATIONS & COORD. W/ STAIR ORIENTATIONS AS REQ'D.



2 SEGMENT G - 4TH FLOOR FRAMING PLAN
1/8" = 1'-0"

GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.
3. REVISED / UPDATED ROOF FRAMING & ASSOCIATED SECTION DETAILS.

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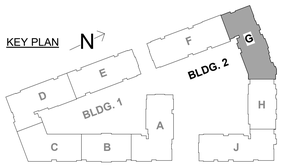
1 23.0411 CITY COMMENTS

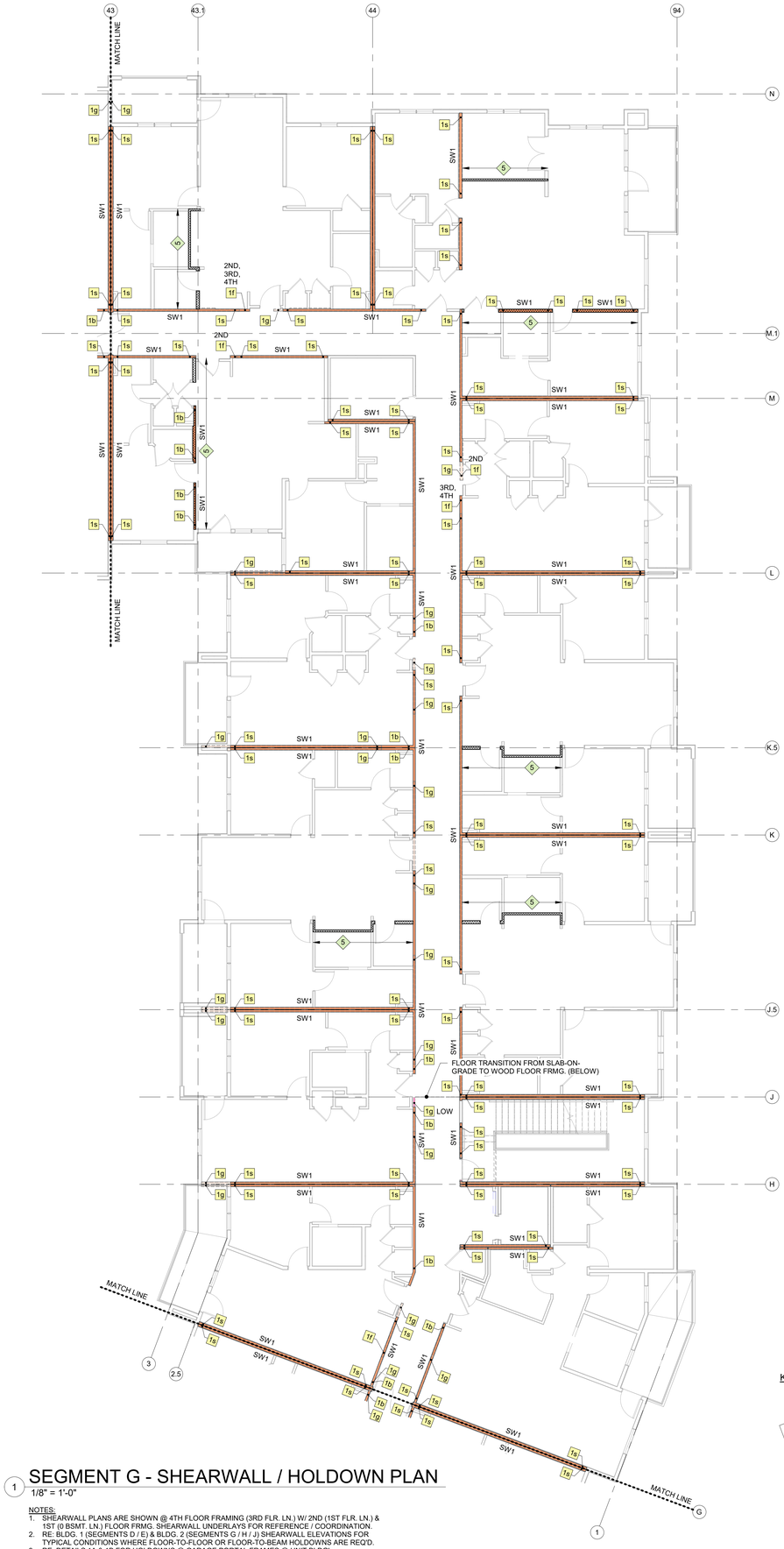
KEY PLAN N



JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (G) 4TH FLOOR & ROOF FRAMING PLANS
SHEET NO. S2.41

4/11/2023 5:37:53 PM

ARCH E1 30" x 42"

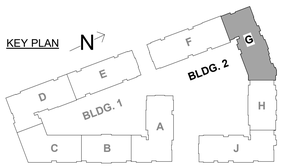


1 SEGMENT G - SHEARWALL / HOLDOWN PLAN

1/8" = 1'-0"

NOTES:
1. SHEARWALL PLANS ARE SHOWN @ 4TH FLOOR FRAMING (3RD FLR. LN.) W/ 2ND (1ST FLR. LN.) & 1ST (0 BSMT. LN.) FLOOR FRMG. SHEARWALL UNDERLAYS FOR REFERENCE / COORDINATION.
2. RE: BLDG. 1 (SEGMENTS D / E) & BLDG. 2 (SEGMENTS G / H / J) SHEARWALL ELEVATIONS FOR TYPICAL CONDITIONS WHERE FLOOR-TO-FLOOR OR FLOOR-TO-BEAM HOLDOWNS ARE REQ'D.
3. RE: DETAILS 1A & 1B FOR HOLDOWNS @ GARAGE PORTAL FRAMES @ UNIT BLDG's.

KEY PLAN N



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04.11.23

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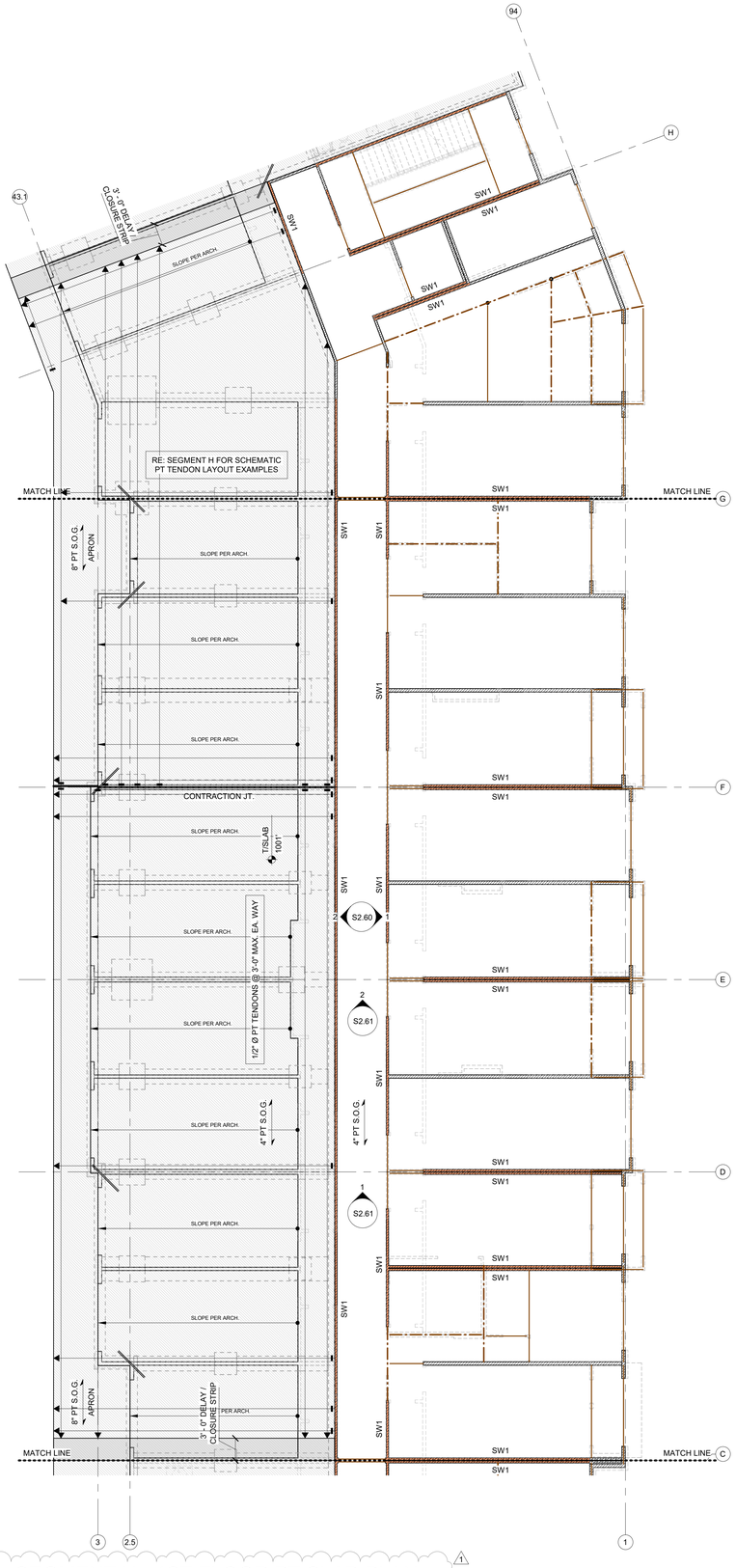
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (G) SHEARWALL PLAN

SHEET NO. **S2.41a**

4/11/2023 5:38:12 PM

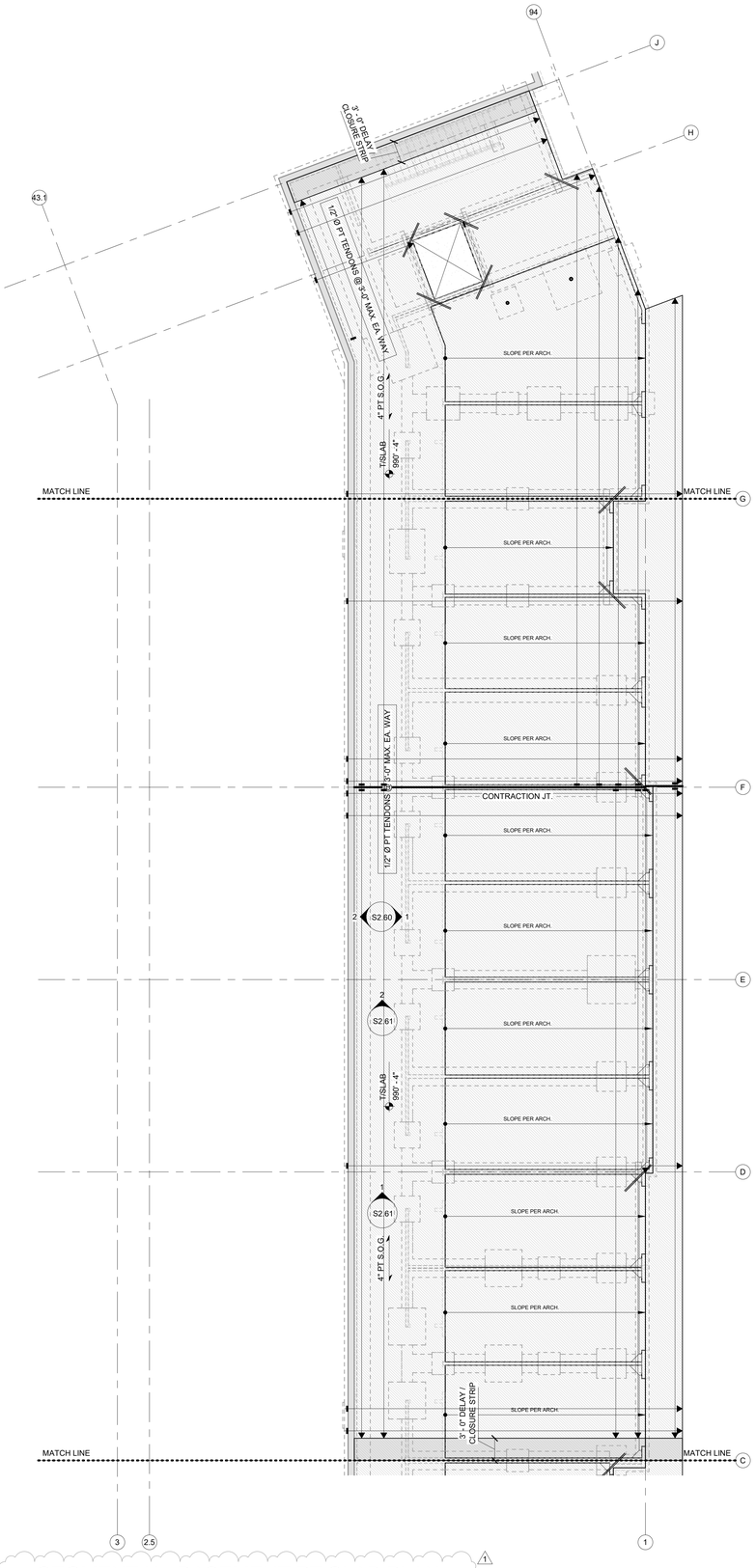
ARCH E1.30" x 42"



1 SEGMENT H - 1ST FLOOR PT SLAB PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.



2 SEGMENT H - BASEMENT PT SLAB PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
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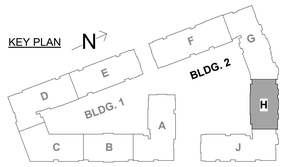
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

△1

KEY PLAN N



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1 23.0411 CITY COMMENTS

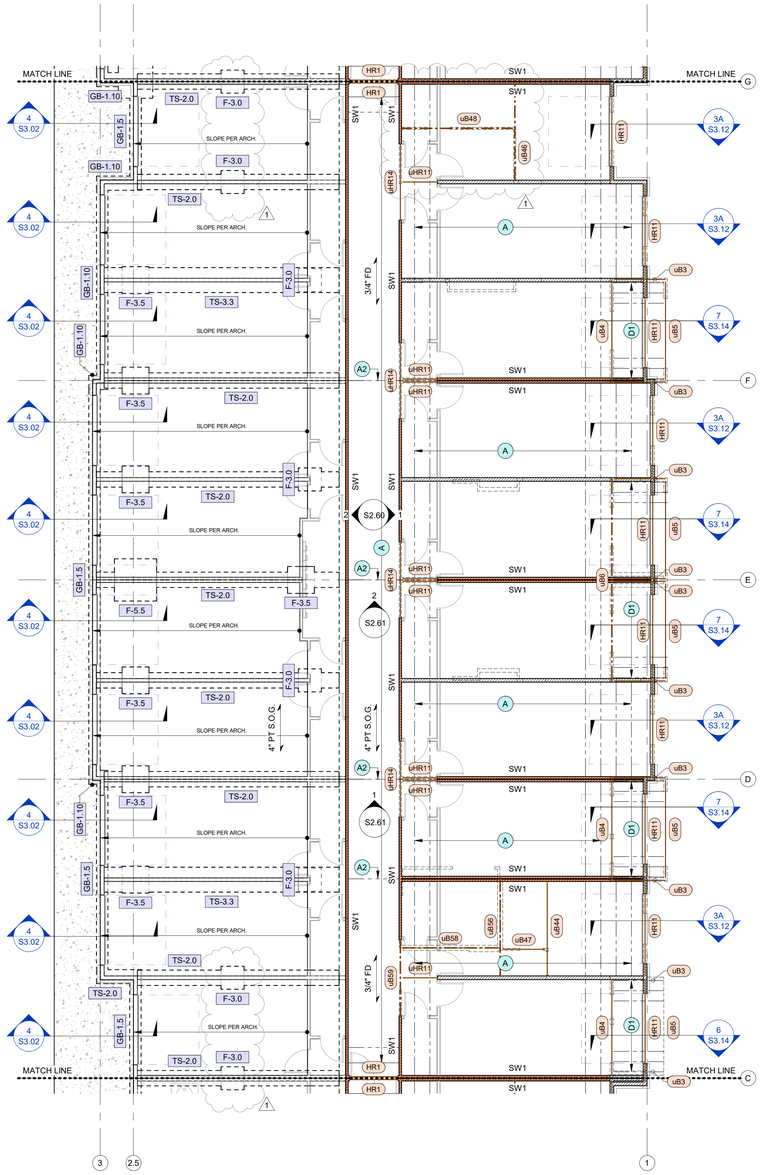
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
SEG (H) BASEMENT & 1ST FLOOR PT SLAB PLANS
SHEET NO.
S2.42

4/11/2023 5:38:22 PM

ARCH E1.30" x 42"

COL./STUD PACK OPTIONS BY FTG. SIZE (1ST FLR. / BASEMENT)

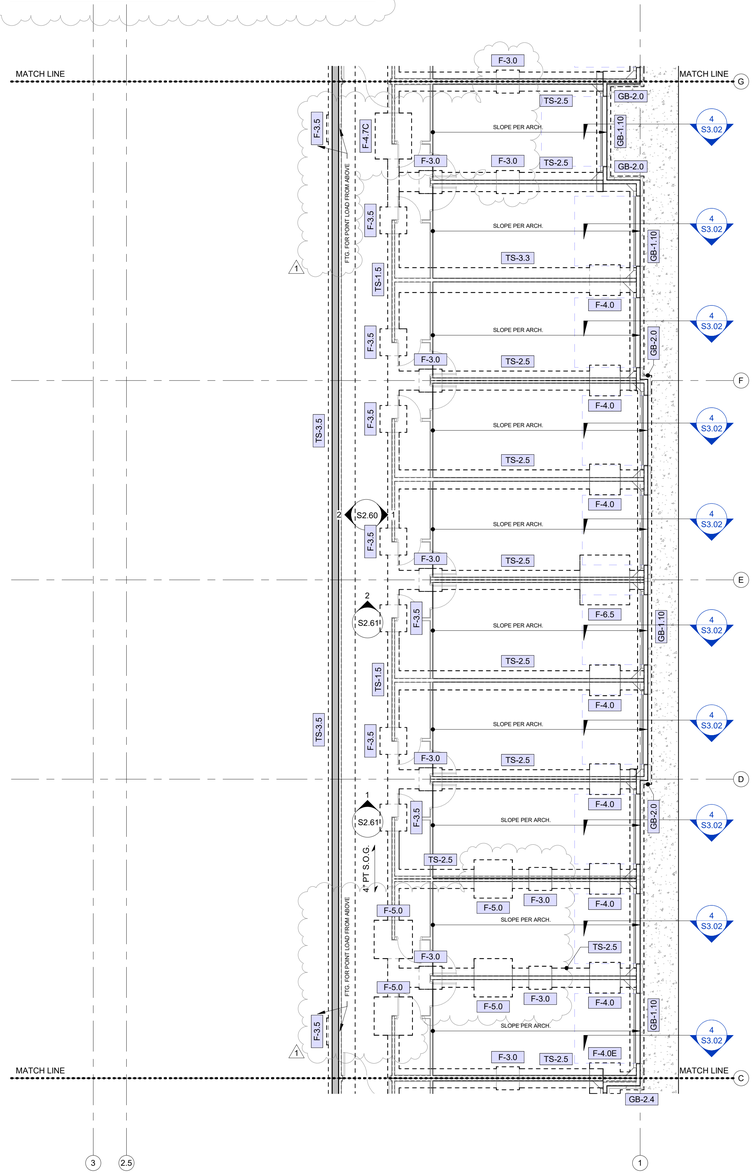
FOOTING	GLULAM COL's (28F-E1 SP/SP (U))	STUD PACKS	A53 Gr. B xS COL's	A53 Gr. B xxS COL's
F-2.5	3 1/2" x 5 1/2"	(3) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.0	3 1/2" x 5 1/2"	(4) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.5	3 1/2" x 5 1/2"	(5) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.0	3 1/2" x 7" --OR-- 5 1/2" x 5 1/2"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.5	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.0	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.5	5 1/2" x 7"	N/A	4" Ø xS PIPE	3" Ø xxS PIPE
F-6.0	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE
F-6.5	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE



1 SEGMENT H - 1ST FLOOR FOUNDATION & FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.
2. @ 1ST FLOOR FRMG. @ SEGMENTS G / H / J, TAPER GYPCRETE TOPPING TO LEVEL W/ ADJACENT SLABS-ON-GRADE AS REQ'D. COORDINATE SLOPE & LOCATIONS W/ ARCH.



2 SEGMENT H - BASEMENT FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

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15. MAX. PT TENDON LENGTH = 125'-0".

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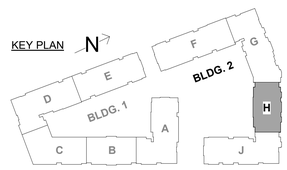
1 23.0411 CITY COMMENTS

KEY PLAN N

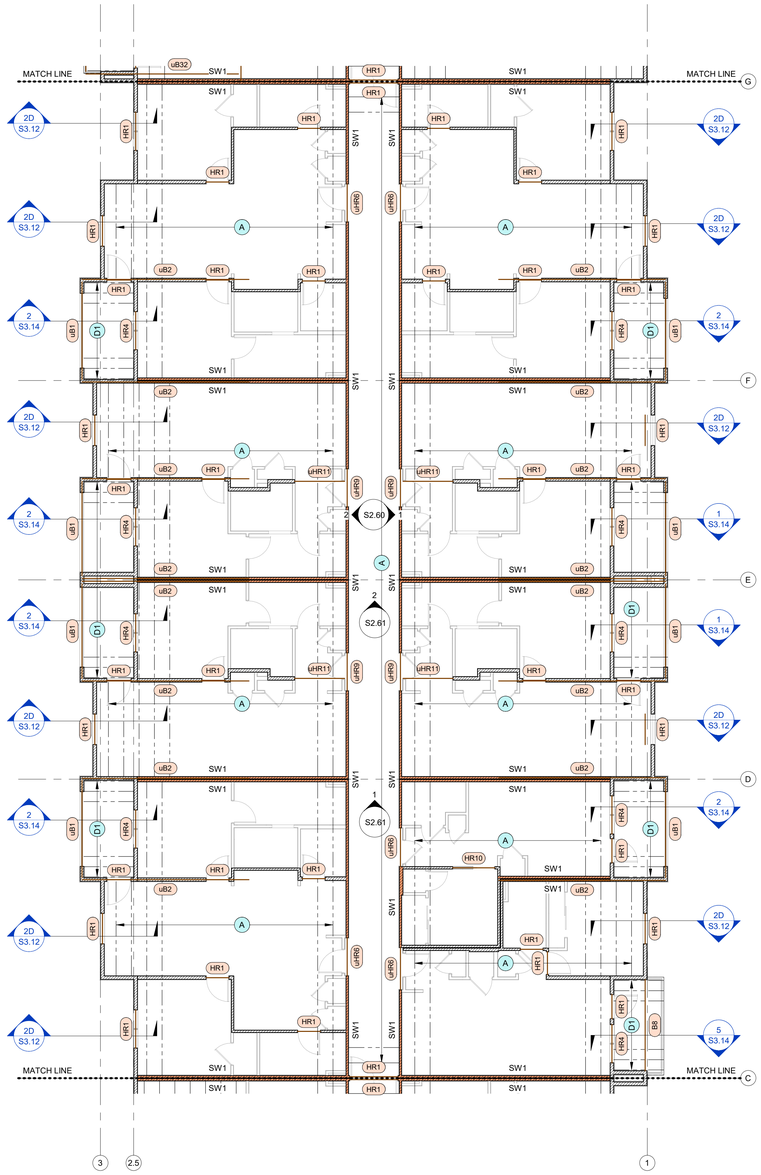


GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

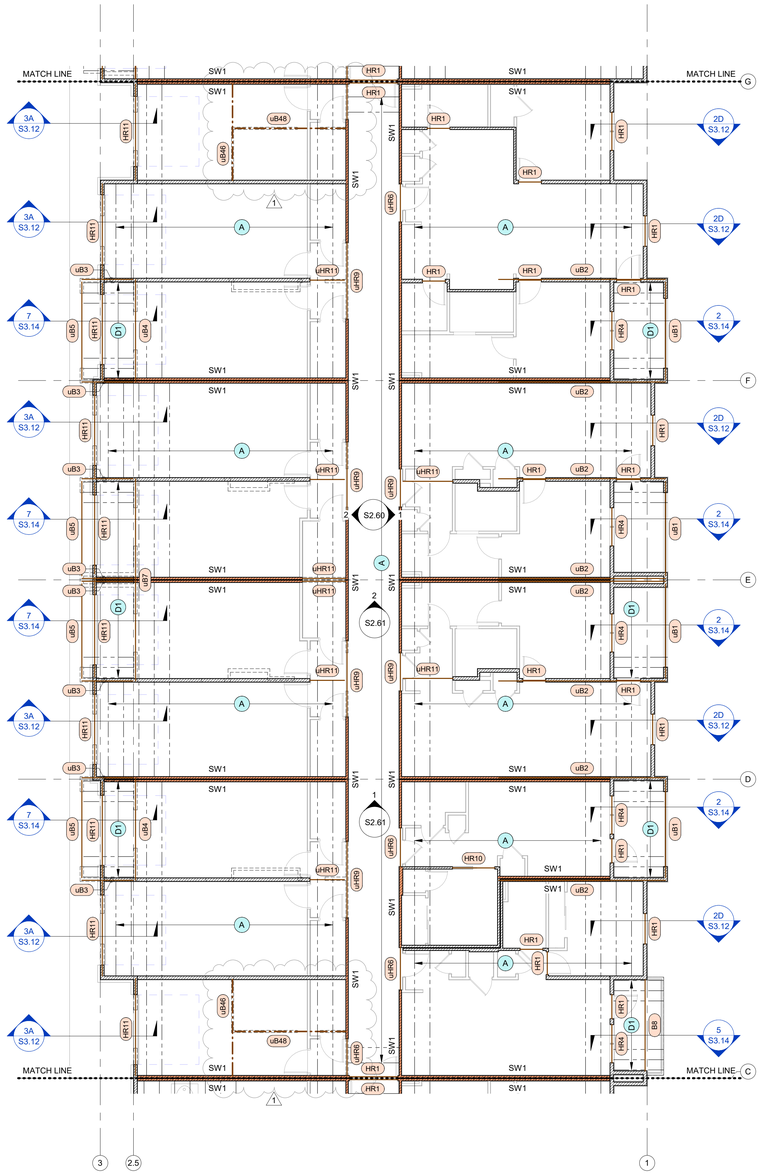
JOB NO. PN1129 DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (H) FDN. & 1ST FLOOR FRAMING PLANS
SHEET NO. S2.43

4/11/2023 5:38:31 PM

ARCH E1.30" x 42"



1 SEGMENT H - 3RD FLOOR FRAMING PLAN
1/8" = 1'-0"



2 SEGMENT H - 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

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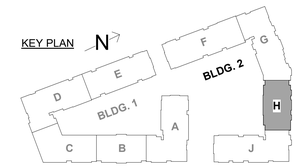


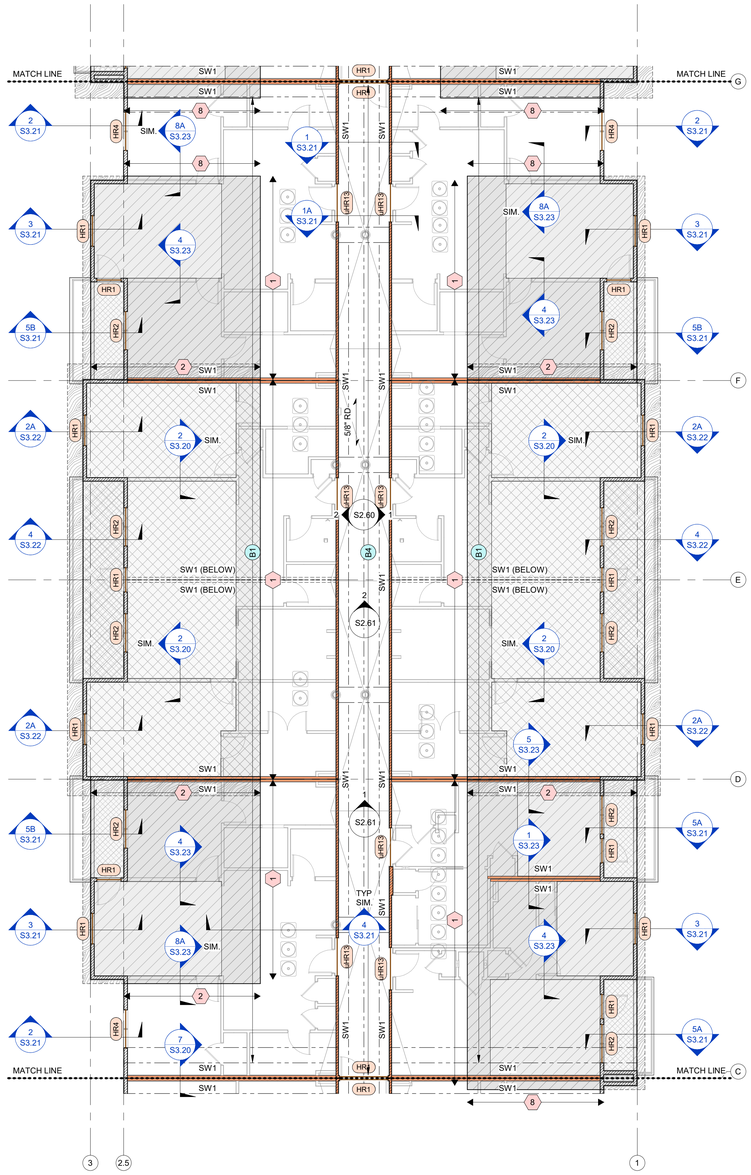
GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

1

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
SEG (H) 2ND & 3RD FLOOR FRAMING PLANS
SHEET NO.
S2.44

4/11/2023 5:39:00 PM

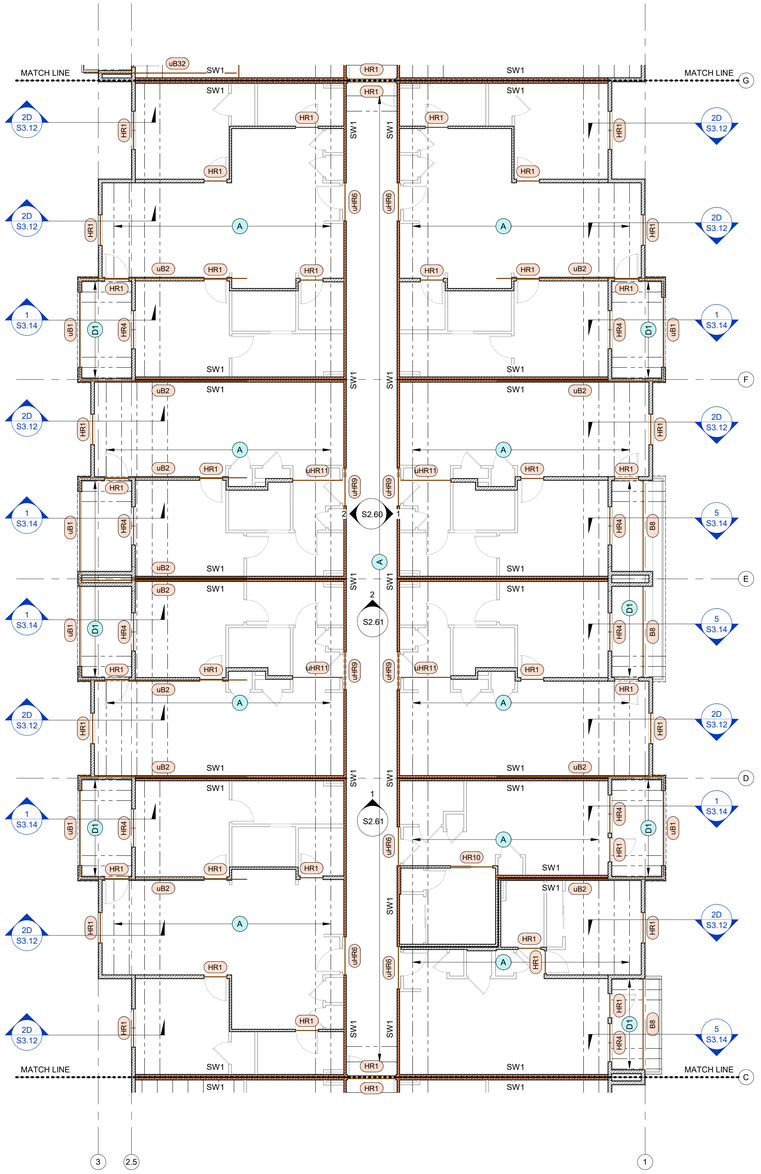
ARCH E1.30" x 42"



1 SEGMENT H - ROOF FRAMING PLAN

1/8" = 1'-0"

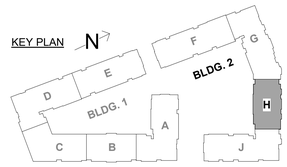
NOTES:
1. REFER TO SNOW DRIFT LOADING DIAGRAMS ON SHEET S0.02.
2. RE: ARCH. DWG's FOR ALTERNATING TREAD DEVICE / ROOF ACCESS HATCH LOCATIONS & COORD. W/ STAIR ORIENTATIONS AS REQ'D.



2 SEGMENT H - 4TH FLOOR FRAMING PLAN

1/8" = 1'-0"

KEY PLAN



GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.
3. REVISED / UPDATED ROOF FRAMING & ASSOCIATED SECTION DETAILS.

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04.11.23

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REVISIONS
1 23.0411 CITY COMMENTS

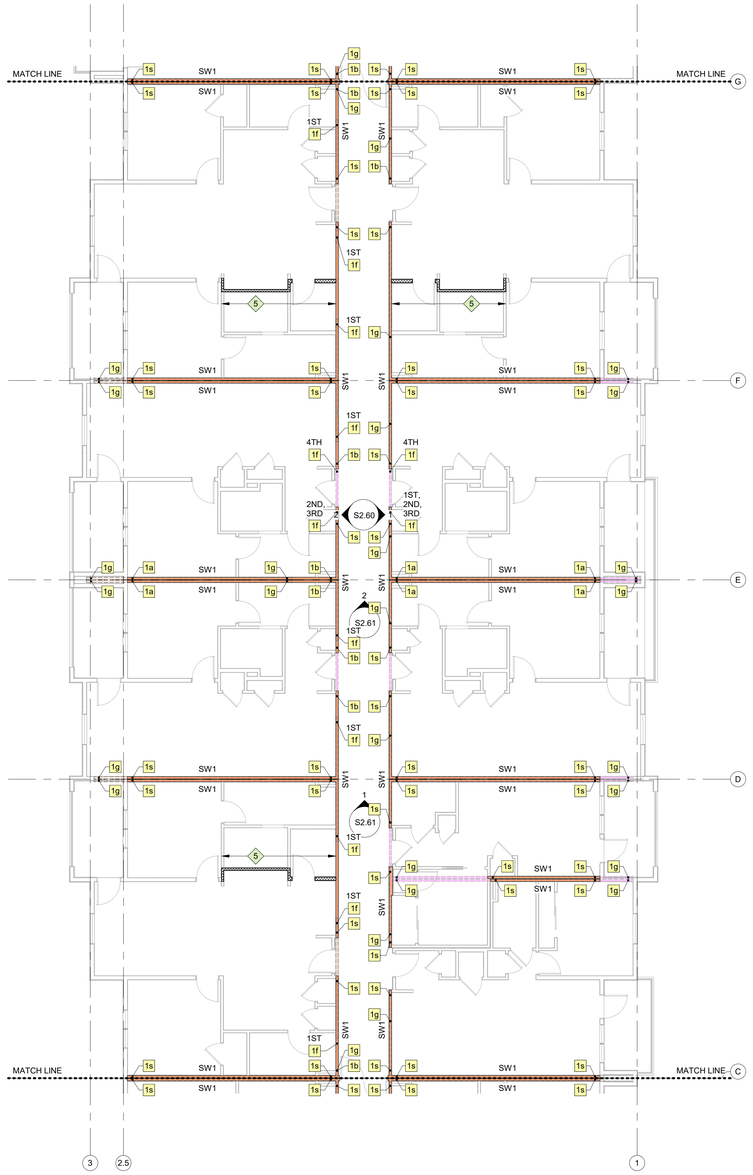
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS

SHEET NAME
SEG (H) 4TH FLOOR & ROOF FRAMING PLANS

SHEET NO.
S2.45

4/11/2023 5:09:40 PM

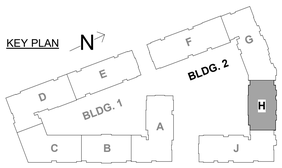
ARCH E1.30" x 42"



1 SEGMENT H - SHEARWALL / HOLDOWN PLAN
1/8" = 1'-0"

NOTES:
1. SHEARWALL PLANS ARE SHOWN @ 4TH FLOOR FRAMING (3RD FLR. LN.) W/ 2ND (1ST FLR. LN.) & 1ST (0 BSMT. LN.) FLOOR FRMG. SHEARWALL UNDERLAYS FOR REFERENCE / COORDINATION.
2. RE: BLDG. 1 (SEGMENTS D / E) & BLDG. 2 (SEGMENTS G / H / J) SHEARWALL ELEVATIONS FOR TYPICAL CONDITIONS WHERE FLOOR-TO-FLOOR OR FLOOR-TO-BEAM HOLDOWNS ARE REQ'D.
3. RE: DETAILS 1A & 1B FOR HOLDOWNS @ GARAGE PORTAL FRAMES @ UNIT BLDG's.

KEY PLAN N



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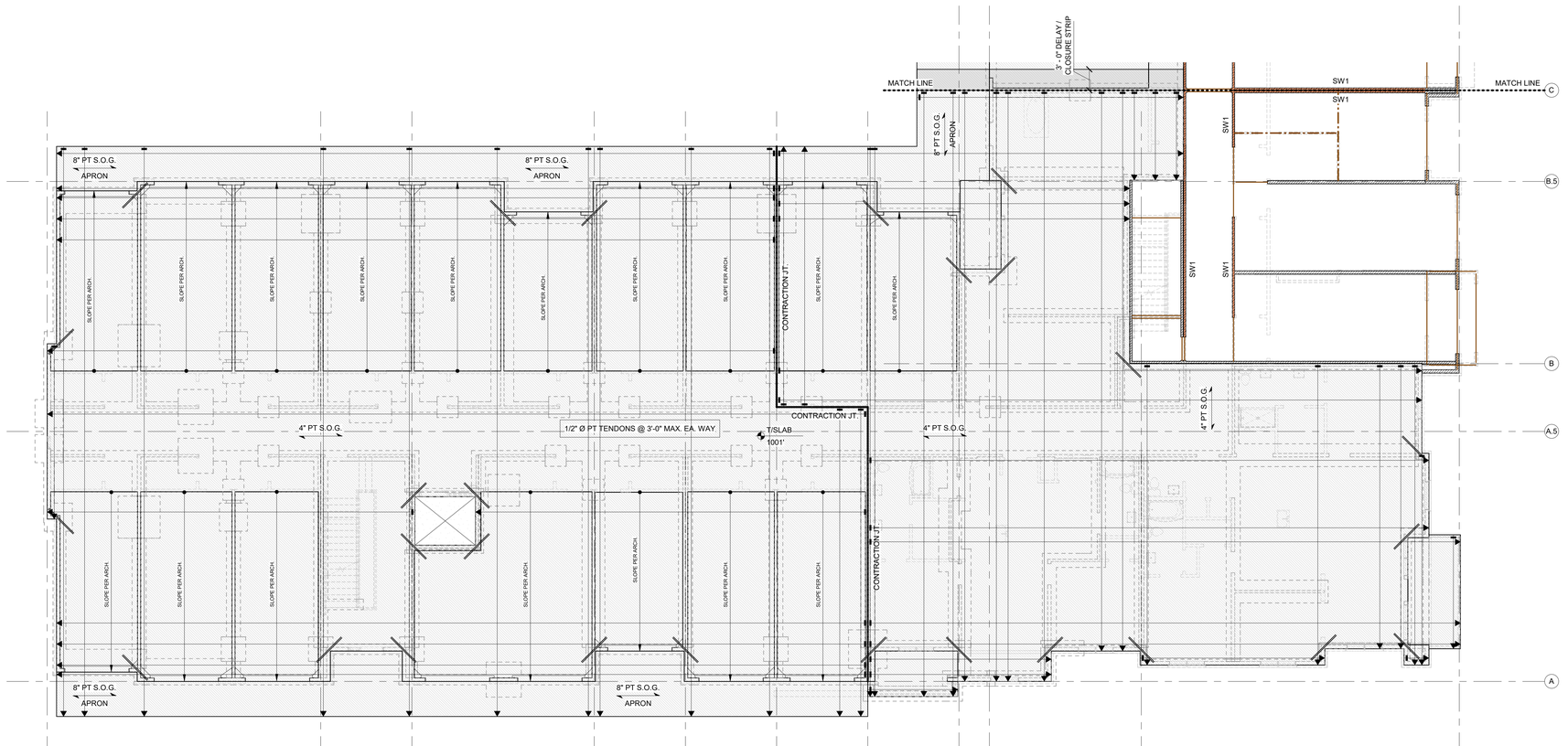
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (H) SHEARWALL PLAN

SHEET NO. S2.45a

4/11/2023 5:00:01 PM

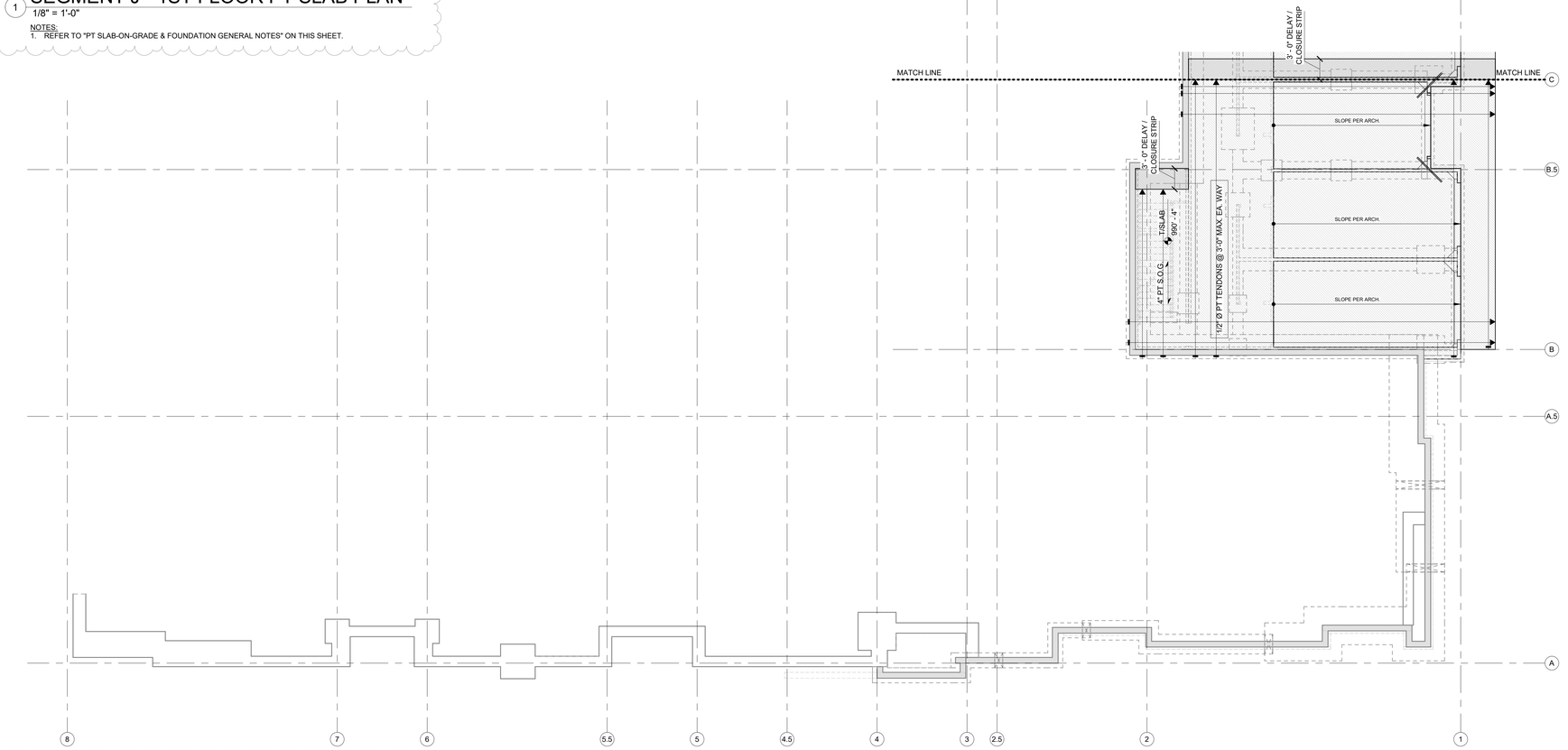
ARCH E1.30" x 42"



1 SEGMENT J - 1ST FLOOR PT SLAB PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.



2 SEGMENT J - BASEMENT PT SLAB PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES. SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH.
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

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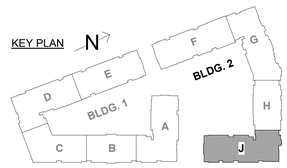
KEY PLAN N



JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (J) BASEMENT & 1ST FLOOR PT SLAB PLANS
SHEET NO. S2.46a

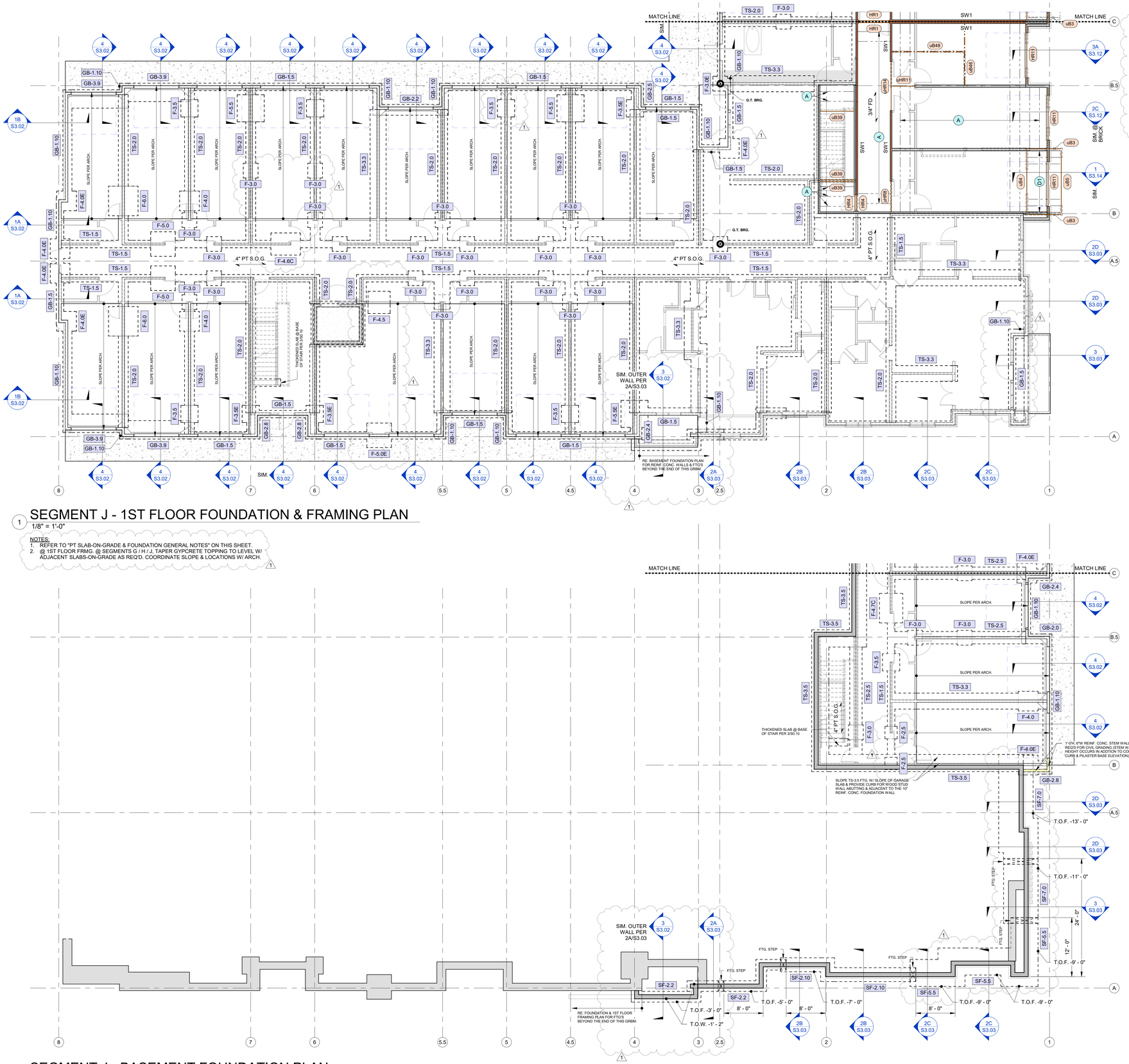
4/11/2023 5:40:13 PM

ARCH E1.30" x 42"

1 SEGMENT J - 1ST FLOOR FOUNDATION & FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.
2. @ 1ST FLOOR FRMG. @ SEGMENTS G / H / J, TAPER GYPCRETE TOPPING TO LEVEL W/ ADJACENT SLABS-ON-GRADE AS REQ'D. COORDINATE SLOPE & LOCATIONS W/ ARCH.



2 SEGMENT J - BASEMENT FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO "PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES" ON THIS SHEET.

COL./STUD PACK OPTIONS BY FTG. SIZE (1ST FLR. / BASEMENT)

FOOTING	GLULAM COL's (28F-E1 SP/SP (U))	STUD PACKS	A53 Gr. B xS COL's	A53 Gr. B xxS COL's
F-2.5	3 1/2" x 5 1/2"	(3) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.0	3 1/2" x 5 1/2"	(4) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-3.5	3 1/2" x 5 1/2"	(5) 2x6	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.0	3 1/2" x 7" -OR- 5 1/2" x 5 1/2"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-4.5	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.0	5 1/2" x 7"	N/A	3 1/2" Ø xS PIPE	3" Ø xxS PIPE
F-5.5	5 1/2" x 7"	N/A	4" Ø xS PIPE	3" Ø xxS PIPE
F-6.0	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE
F-6.5	N/A	N/A	5" Ø xS PIPE	4" Ø xxS PIPE

PT SLAB-ON-GRADE & FOUNDATION GENERAL NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.01.
2. REFER TO TYPICAL DETAILS ON S3.00 SERIES. SHEETS. SECTIONS NOT OTHERWISE INDICATED ON PLAN SHALL BE SIMILAR TO LIKE CONDITIONS.
3. CONFIRM ALL DIMENSIONS, ELEVATIONS, SLOPES, AND RECESSES WITH ARCH DRAWINGS.
4. AT ALL CONTINUOUS FOUNDATIONS, PROVIDE CORNER BARS PER 3/S3.00 AT ALL CORNERS AND INTERSECTIONS.
5. STRUCTURAL DATUM ELEVATION = CIVIL DATUM ELEVATION PER CIVIL DRAWINGS (VARIES PER BUILDING) AS NOTED ON PT SLAB PLANS.
6. PLACE TENDONS ON 1.5" CHAIRS.
7. LAYOUT TENDONS SUCH TO AVOID BLOCKOUTS, SHEARWALL HOLDOWNS AND COLUMN BEARING POINTS.
8. PROVIDE (2) #5 x 5'-0" AT RE-ENTRANT CORNERS, CENTERED IN SLAB DEPTH.
9. PLACE FIRST STRAND ± 1'-0" FROM SLAB EDGE (U.N.O.).
10. PROVIDE FULL LENGTH TENDON PASSING CONTINUOUS BETWEEN POURS WHERE SHOWN. DO NOT TENSION UNTIL COMPLETION OF BOTH SLABS.
11. T.O.W. & T.O.F. RELATIVE TO FFE / DATUM ELEVATIONS AS NOTED ON PT SLAB PLANS & AS INDICATED IN DIM's / ELEVATIONS NOTED @ S3.00 SERIES CONCRETE DETAILS.
12. T.O.F. @ INTERIOR BLDG. FTG's = T/SLAB ELEVATION, TYP. ADJUST HEIGHTS OF FOOTINGS ACCORDINGLY WHERE OCCURS @ / ALONG SLOPED PT SLAB-ON- GRADE @ GARAGES.
13. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's = -1'-0", TYP.
14. T.O.F. @ EXTERIOR BLDG. PERIMETER FTG's @ PATIOS = -1'-2", TYP. (AS REQ'D TO MAINTAIN 8" MIN. THICKENED SLAB FOR PT TENDONS)
15. MAX. PT TENDON LENGTH = 125'-0".

GENERAL SHEET REVISIONS:

1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

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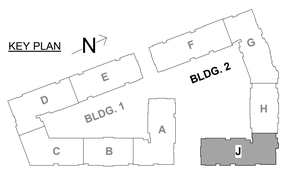
1 23.0411 CITY COMMENTS

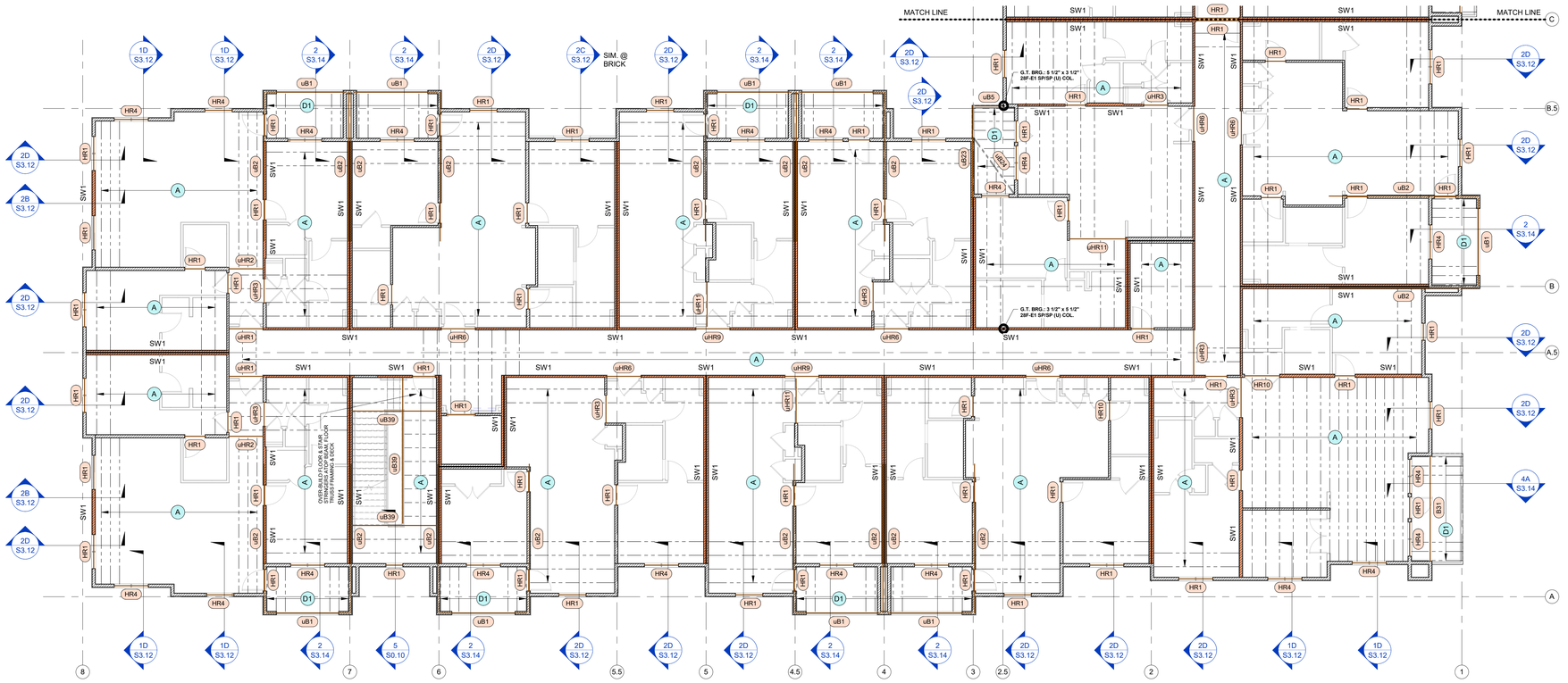
KEY PLAN



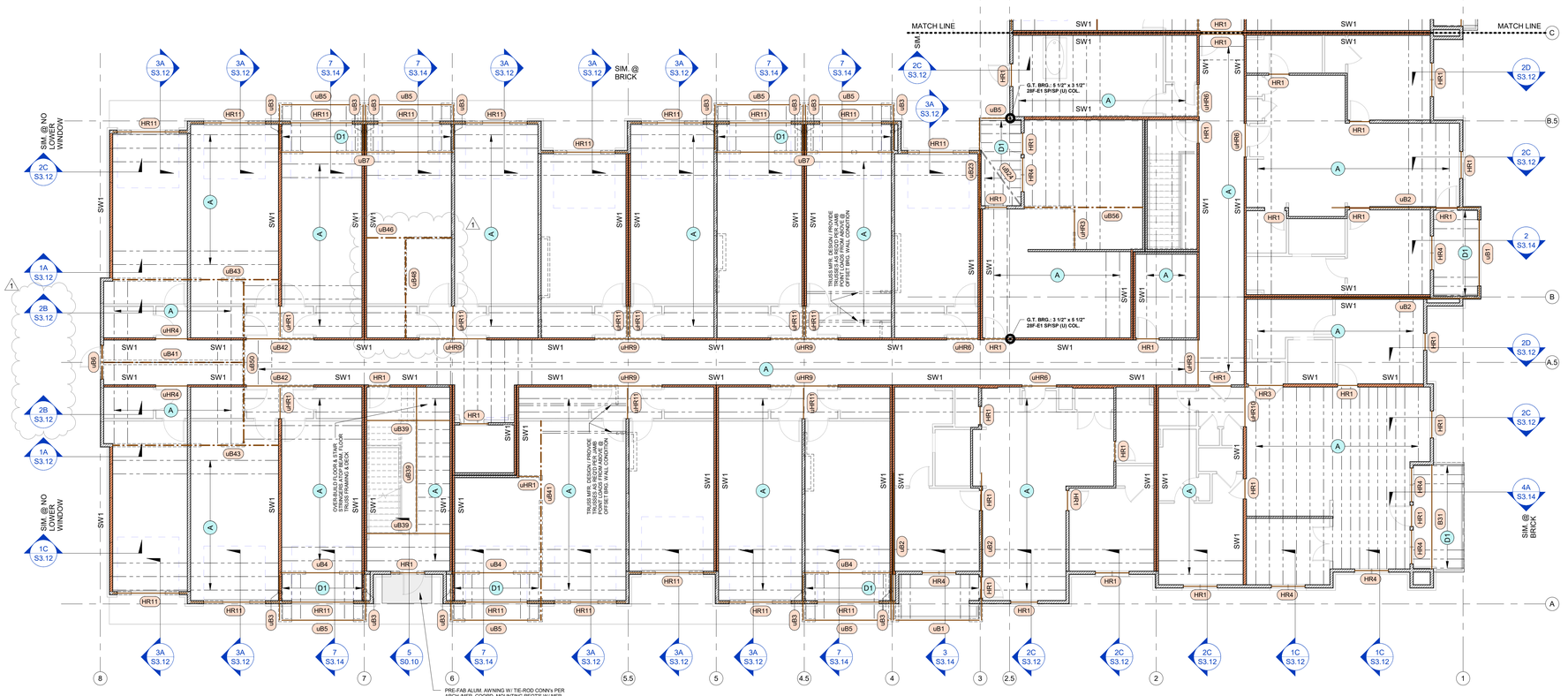
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (J) FDN. & 1ST FLOOR FRAMING PLANS
SHEET NO. S2.46b

4/11/2023 5:40:32 PM

ARCH E1.30" x 42"



1 SEGMENT J - 3RD FLOOR FRAMING PLAN
1/8" = 1'-0"



2 SEGMENT J - 2ND FLOOR FRAMING PLAN
1/8" = 1'-0"

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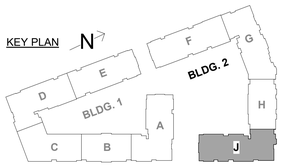
1 23.0411 CITY COMMENTS

KEY PLAN N

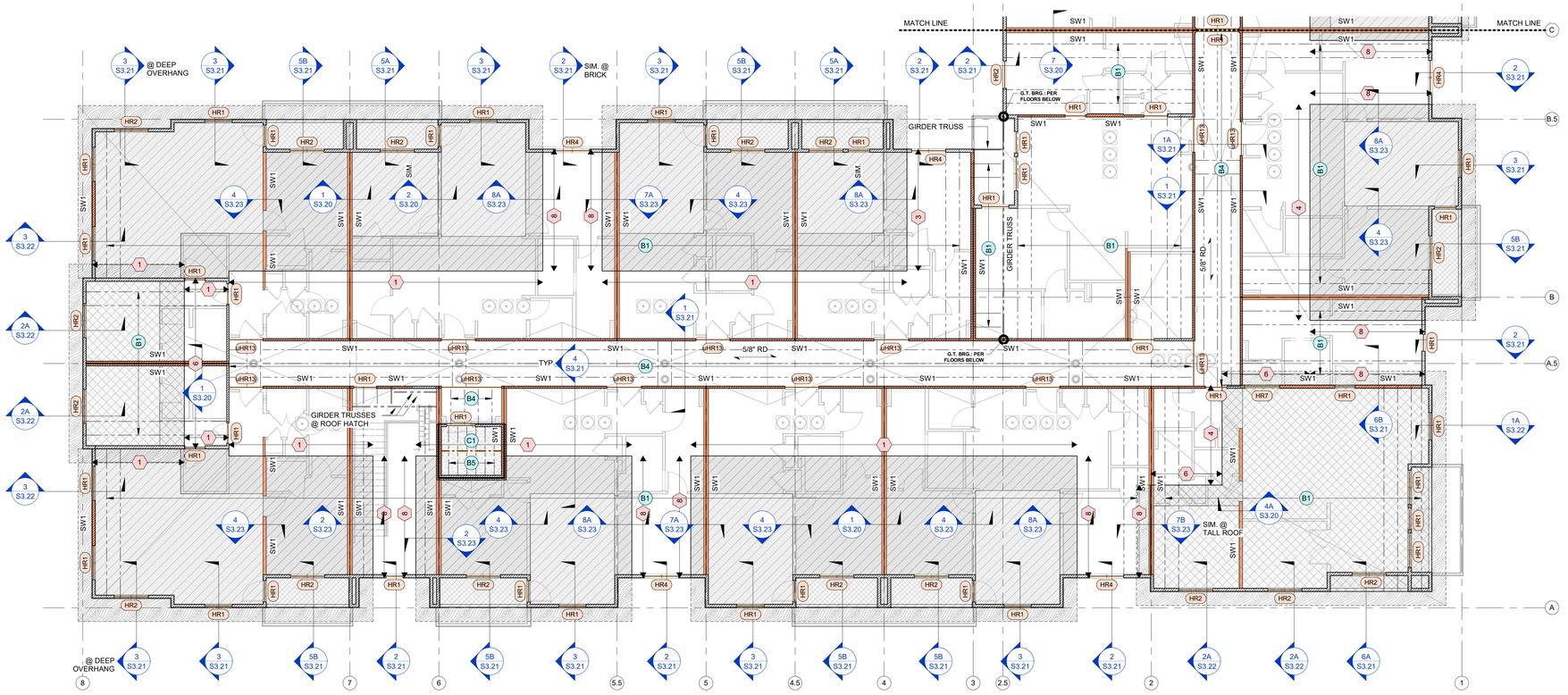


JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (J) 2ND & 3RD FLOOR FRAMING PLAN
SHEET NO. S2.47

GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.

4/11/2023 5:41:16 PM

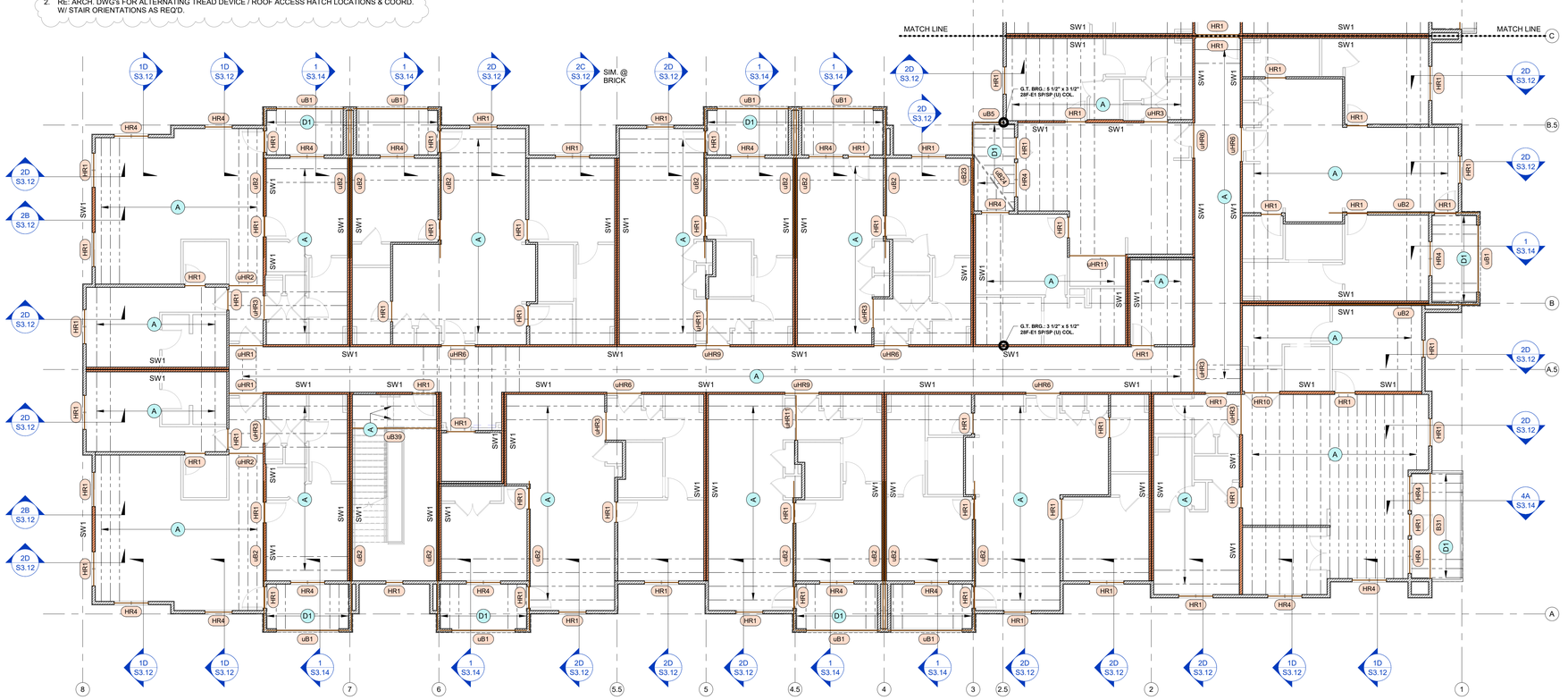
ARCH E1 30" x 42"



1 SEGMENT J - ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO SNOW DRIFT LOADING DIAGRAMS ON SHEET S0.02.
2. RE: ARCH. DWG's FOR ALTERNATING TREAD DEVICE / ROOF ACCESS HATCH LOCATIONS & COORD. W/ STAIR ORIENTATIONS AS REQ'D.



2 SEGMENT J - 4TH FLOOR FRAMING PLAN

1/8" = 1'-0"

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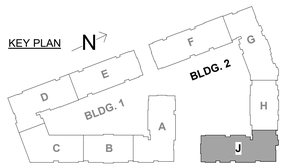
1 23 0411 CITY COMMENTS

KEY PLAN



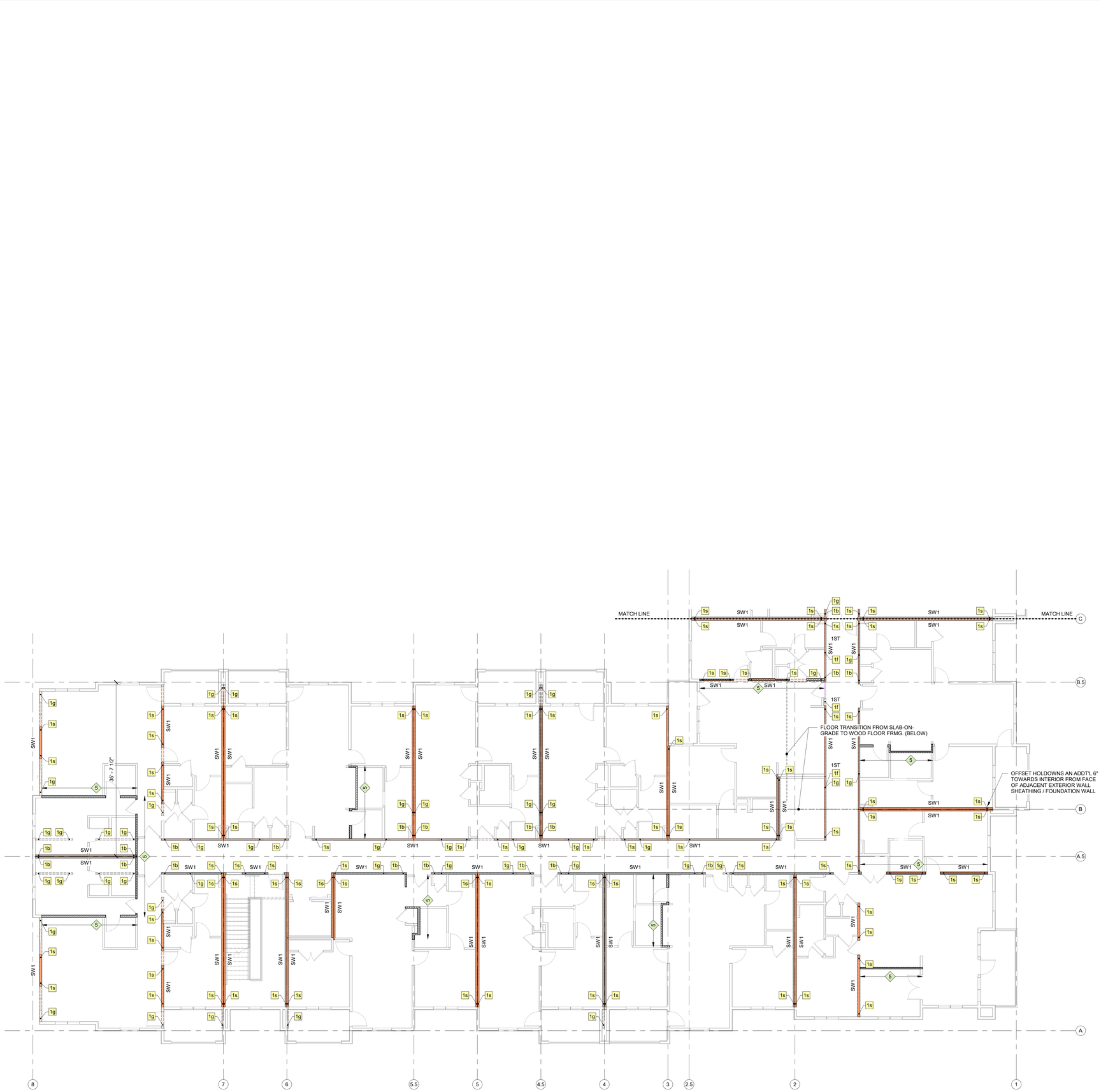
GENERAL SHEET REVISIONS:
1. ADDED STUD PACK / COL. TYPE DESIGNATIONS FOR BEAMS & G.T. BRG.
2. ADDED / UPDATED BEAM & HEADER TYPE DESIGNATIONS.
3. REVISED / UPDATED ROOF FRAMING & ASSOCIATED SECTION DETAILS.

△1

JOB NO. PN1129 DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (J) 4TH FLOOR & ROOF FRAMING PLAN
SHEET NO. S2.48

4/11/2023 5:41:55 PM

ARCH E1.30" x 42"



1 SEGMENT J - SHEARWALL / HOLDOWN PLAN

1/8" = 1'-0"

NOTES:
1. SHEARWALL PLANS ARE SHOWN @ 4TH FLOOR FRAMING (3RD FLR. LN.) W/ 2ND (1ST FLR. LN.) & 1ST (0 BSMT. LN.) FLOOR FRMG. SHEARWALL UNDERLAYS FOR REFERENCE / COORDINATION.
2. RE: BLDG. 1 (SEGMENTS D / E) & BLDG. 2 (SEGMENTS G / H / J) SHEARWALL ELEVATIONS FOR TYPICAL CONDITIONS WHERE FLOOR-TO-FLOOR OR FLOOR-TO-BEAM HOLDOWNS ARE REQ'D.
3. RE: DETAILS 1A & 1B FOR HOLDOWNS @ GARAGE PORTAL FRAMES @ UNIT BLDG's.

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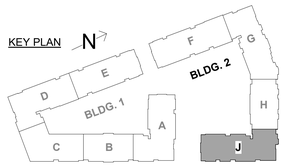
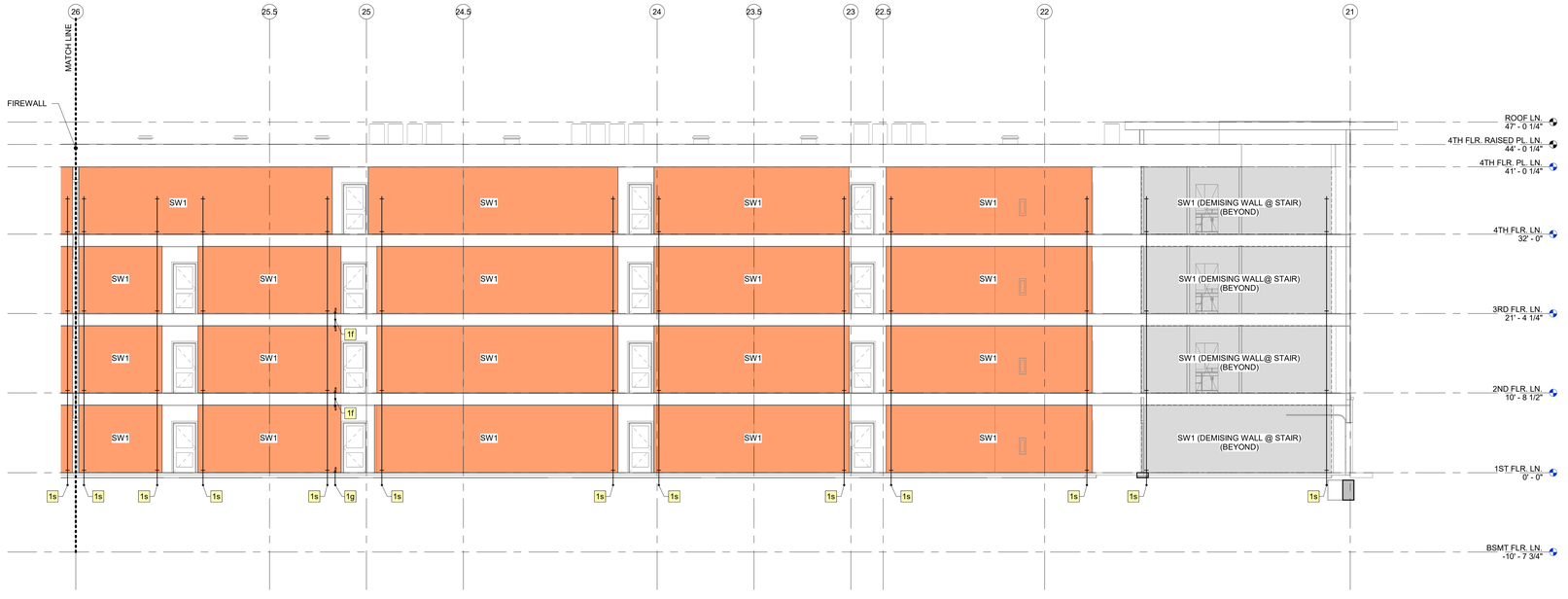
KEY PLAN N



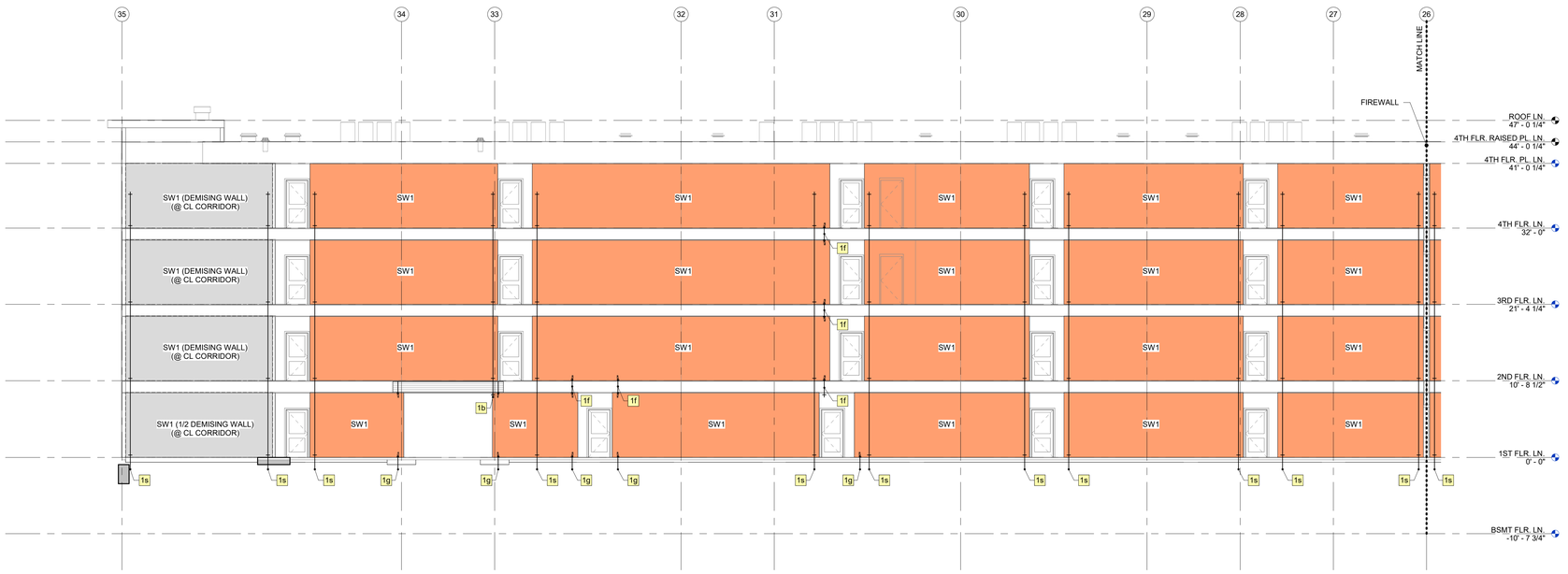
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME SEG (J) SHEARWALL PLAN
SHEET NO. S2.48a

4/11/2023 5:42:08 PM

ARCH E1.30" x 42"



1 SHEARWALL ELEVATION - BLDG 1 - SEG D - CORR. LOOKING EAST
1/8" = 1'-0"



2 SHEARWALL ELEVATION - BLDG 1 - SEG E - CORR. LOOKING EAST
1/8" = 1'-0"

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PROFESSIONAL ENGINEER
04.11.23

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11200 Corporate Ave., Suite 110 Lenexa, Kansas 66219

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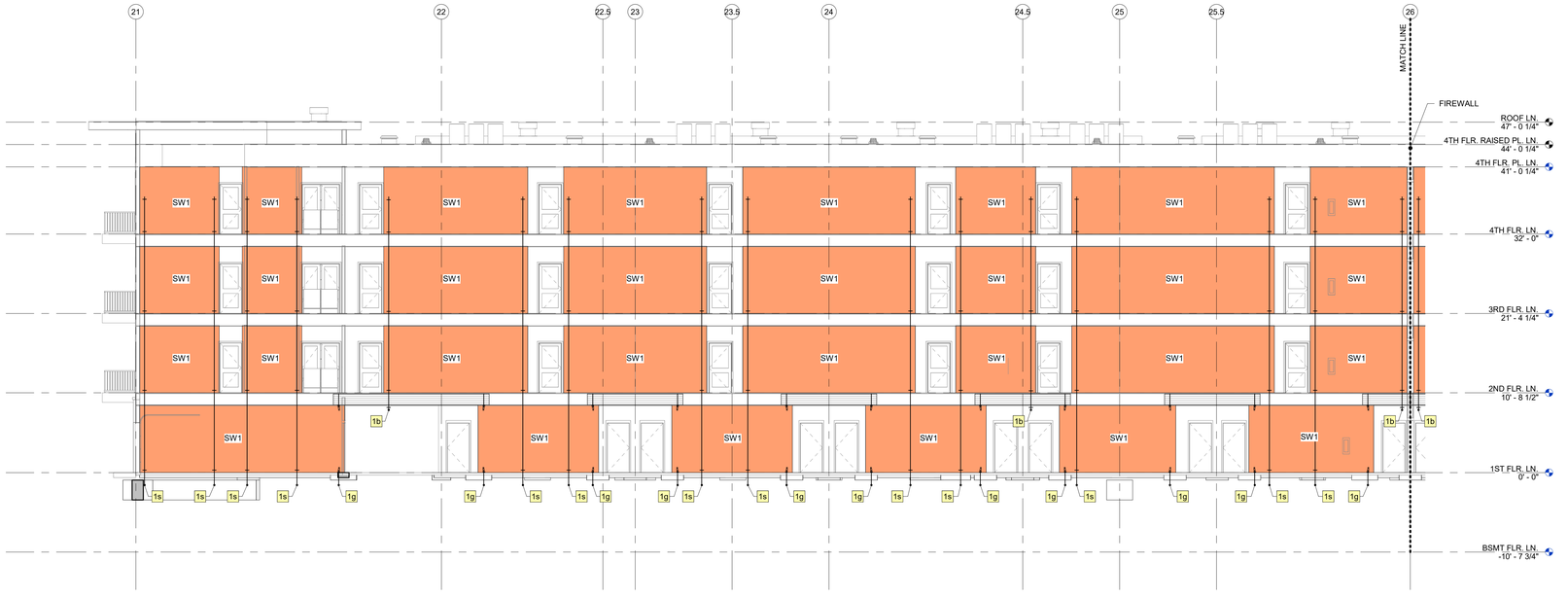
DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△ REVISIONS

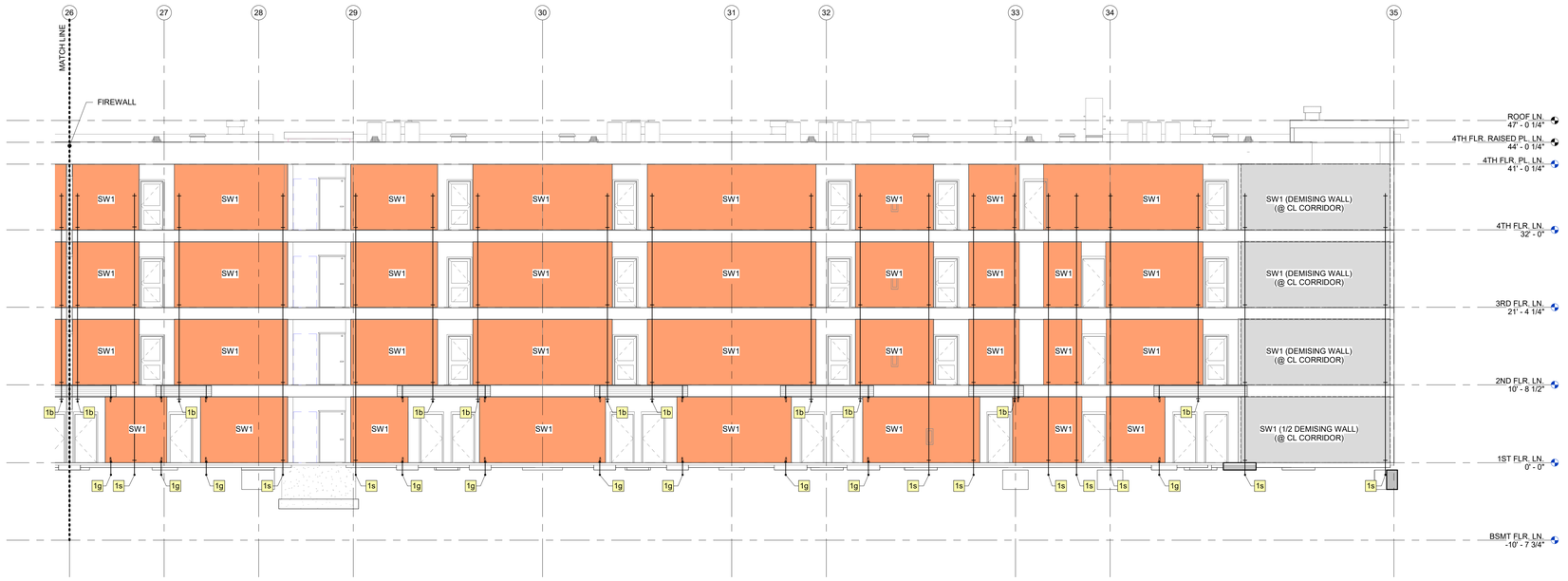
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME BLDG 1 - SHEARWALL ELEVATIONS
SHEET NO. S2.50

4/11/2023 5:42:16 PM

ARCH E1.30" x 42"



1 SHEARWALL ELEVATION - BLDG 1 - SEG D - CORR. LOOKING WEST
1/8" = 1'-0"



2 SHEARWALL ELEVATION - BLDG 1 - SEG E - CORR. LOOKING WEST
1/8" = 1'-0"

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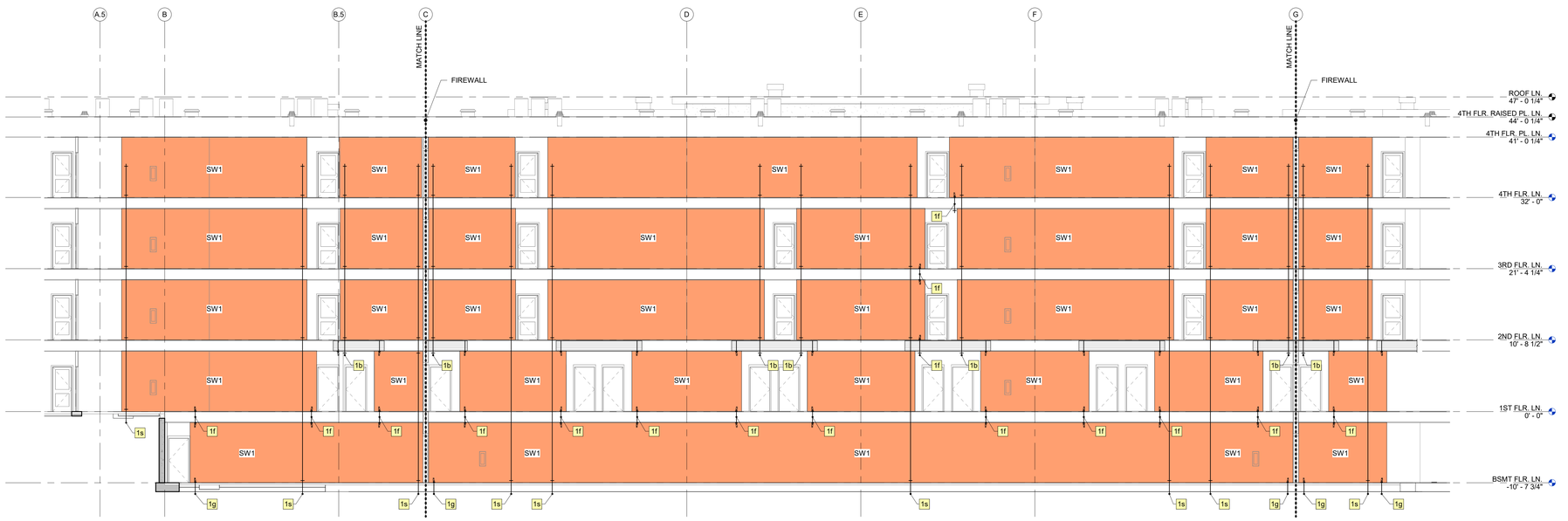
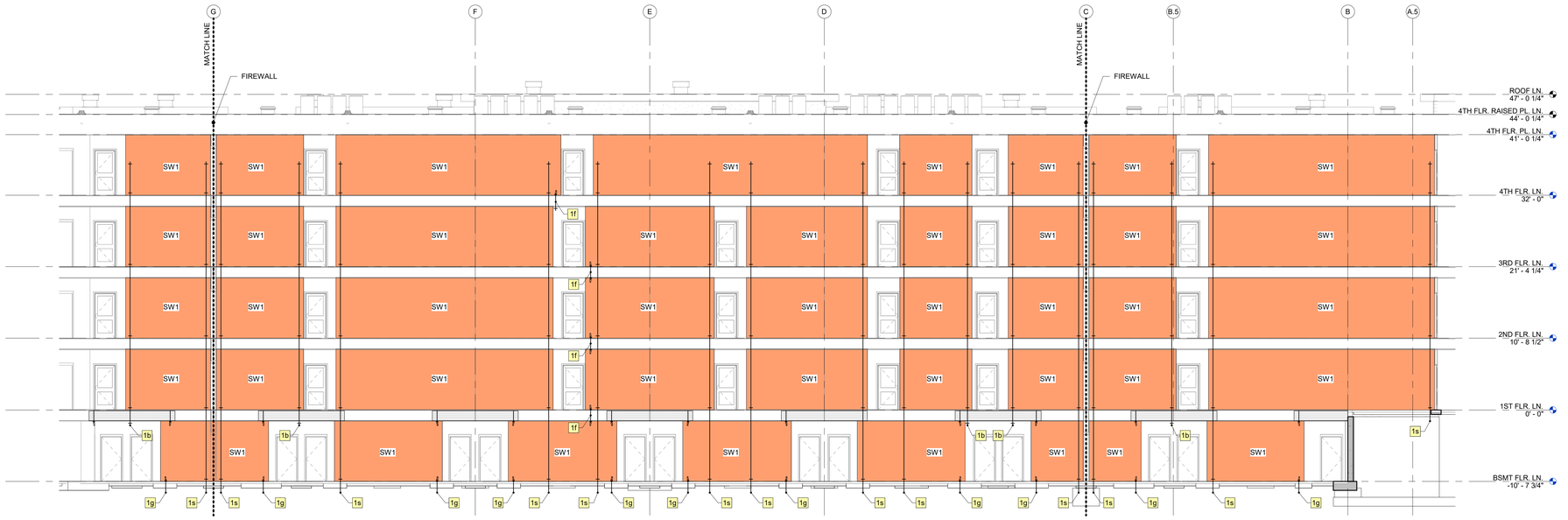
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME BLDG 1 - SHEARWALL ELEVATIONS
SHEET NO. S2.51

4/11/2023 5:42:28 PM

ARCH E1.30" x 42"



2 SHEARWALL ELEVATION - BLDG 2 - SEG G/H/J - CORR. LOOKING SOUTH
1/8" = 1'-0"



1 SHEARWALL ELEVATION - BLDG 2 - SEG G/H/J - CORR. LOOKING NORTH
1/8" = 1'-0"

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04.11.23

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- 03.15.2023 - PERMIT SUBMITTAL

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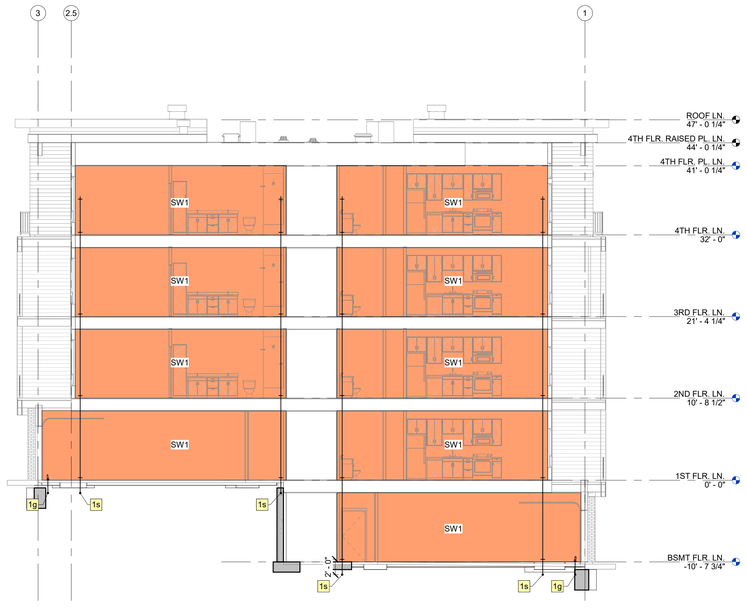
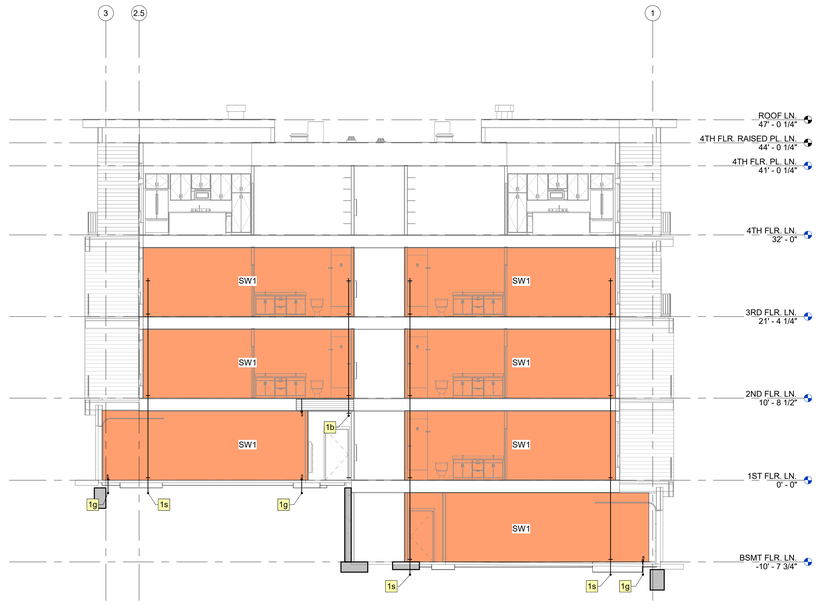
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
BLDG 2 - SHEARWALL ELEVATIONS
SHEET NO.
S2.60

4/11/2023 5:42:39 PM

ARCH E1.30" x 42"



1 SHEARWALL ELEVATION - BLDG 2 - SEG H - GRID D
1/8" = 1'-0"



2 SHEARWALL ELEVATION - BLDG 2 - SEG H - GRID E
1/8" = 1'-0"

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STATE OF MISSOURI
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DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

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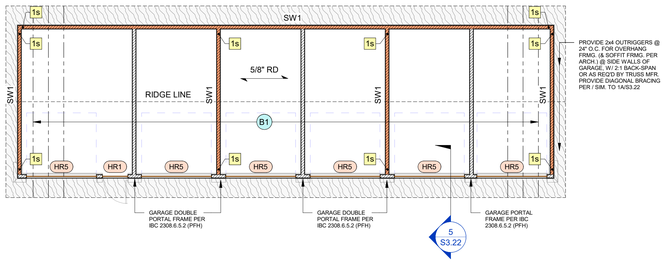
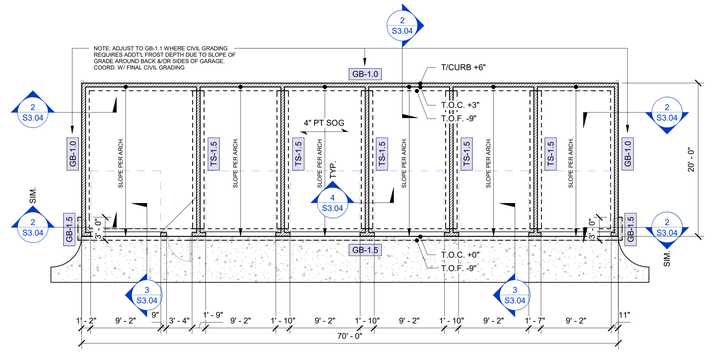
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME BLDG 2 - SHEARWALL ELEVATIONS
SHEET NO. S2.61

4/11/2023 5:42:47 PM

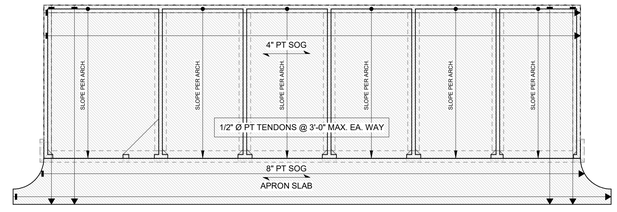
ARCH E1.30" x 42"



2A ACCESSIBLE GARAGE ROOF FRAMING PLAN
1/8" = 1'-0"



2B ACCESSIBLE GARAGE FOUNDATION PLAN
1/8" = 1'-0"

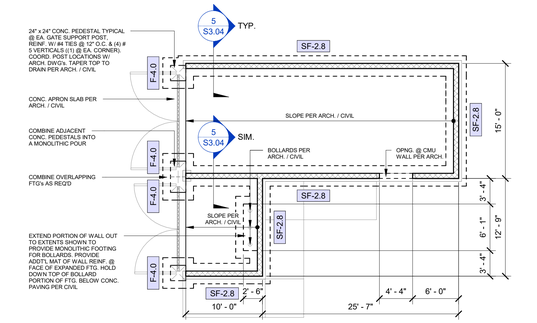


2 ACCESSIBLE GARAGE PT SLAB PLAN
1/8" = 1'-0"

3A GARAGE ROOF FRAMING PLAN
1/8" = 1'-0"

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

3 GARAGE PT SLAB PLAN
1/8" = 1'-0"



1 TRASH ENCLOSURE FOUNDATION PLAN
1/8" = 1'-0"

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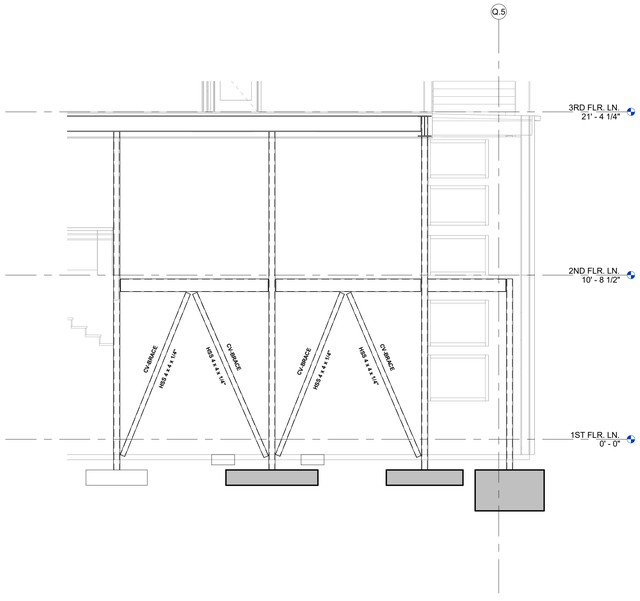
- 03.15.2023 - PERMIT SUBMITTAL

REVISIONS
1 23.0411 CITY COMMENTS

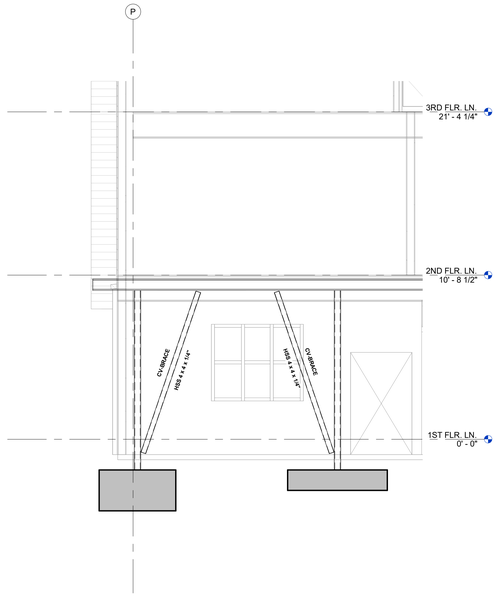
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
DETACHED GARAGES & TRASH ENCLOSURE
SHEET NO.
S2.70

4/11/2023 5:42:56 PM

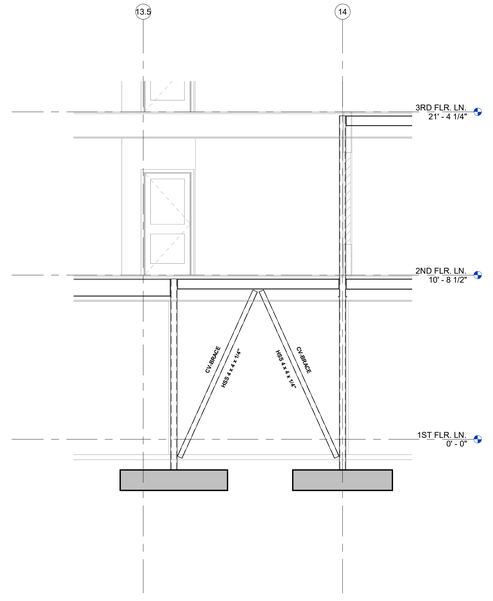
ARCH E1.30" x 42"



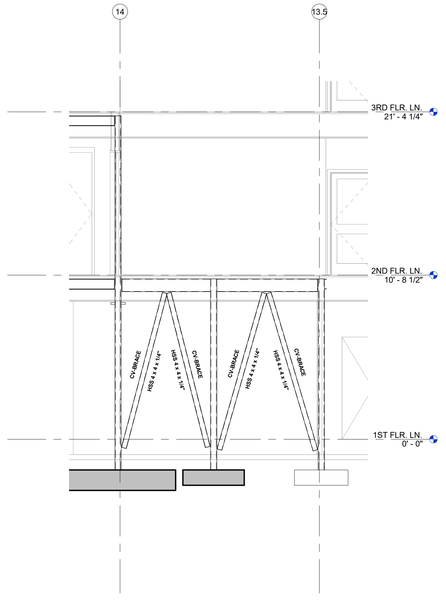
1 BRACE - GRID 14.7
1/4" = 1'-0"



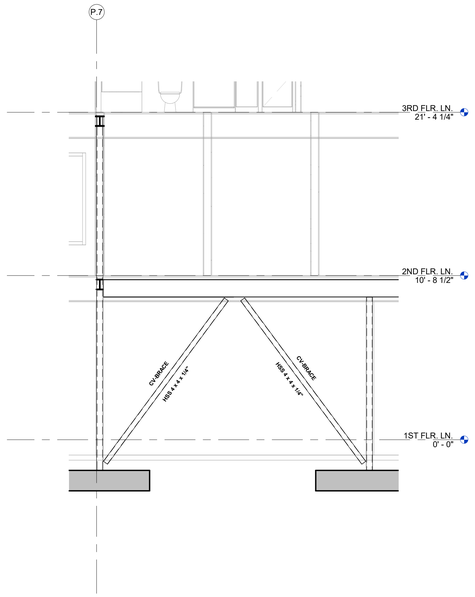
2 BRACE - GRID 15
1/4" = 1'-0"



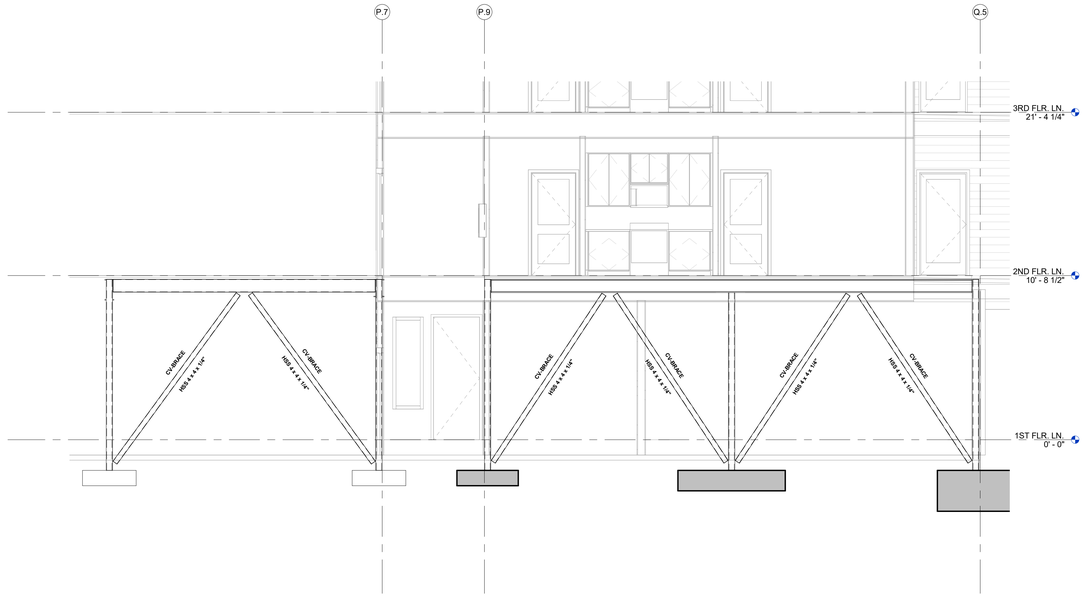
3 BRACE - GRID P.7
1/4" = 1'-0"



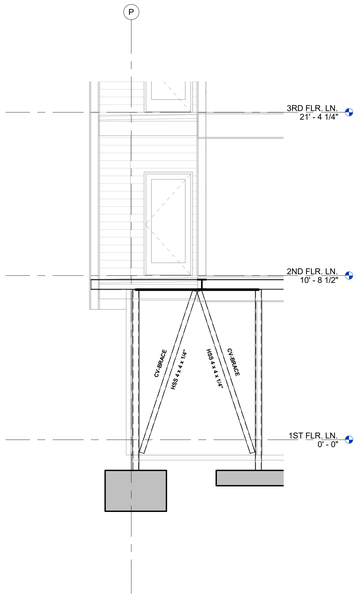
4 BRACE - GRID P.9
1/4" = 1'-0"



5 BRACE - GRID 14
1/4" = 1'-0"



6 BRACE - GRID 13
1/4" = 1'-0"



7 BRACE - GRID 15.5
1/4" = 1'-0"

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JOHN A. KRUDWIG
PE-2005005004
PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION
04.11.23

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11200 Corporate Ave., Suite 110 Lenexa, Kansas 66219

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- 03.15.2023 - PERMIT SUBMITTAL

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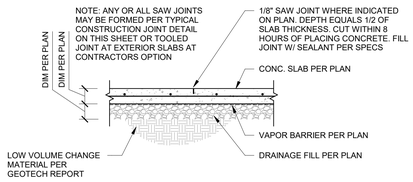
JOB NO. PN1129
DATE 03/15/23
DRAWN BY Author
4.11.2023 CITY COMMENTS
SHEET NAME BRACE ELEVATIONS
SHEET NO. S2.80

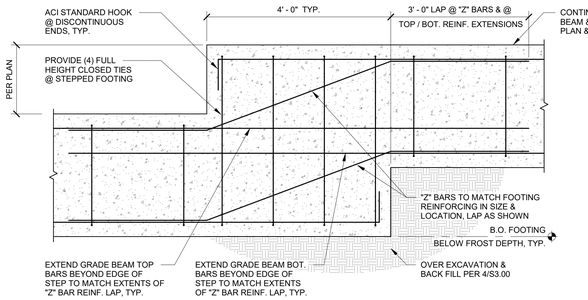
4/11/2023 5:43:07 PM

ARCH E1.30" x 42"



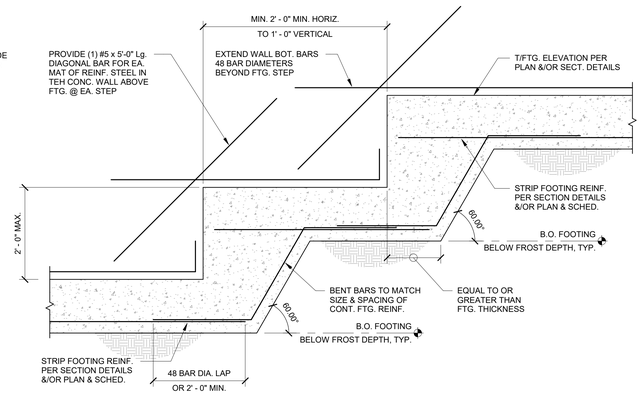
TYPICAL SAW JOINT NOTED "SJ" ON PLAN

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



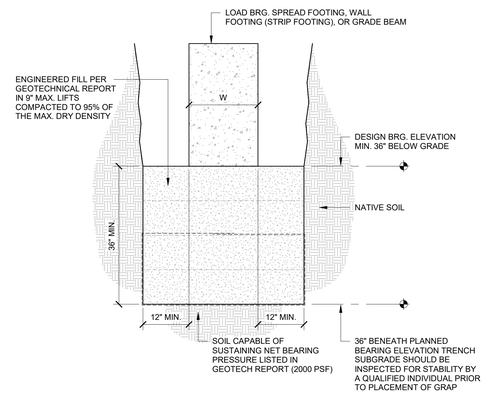
TYPICAL GRADE BEAM STEP

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



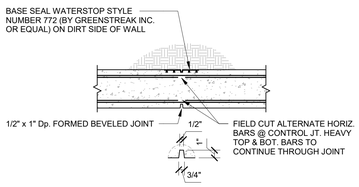
TYPICAL STRIP FOOTING STEP

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



ENGINEERED FILL BACKFILL

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

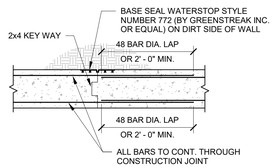


TYPICAL VERTICAL WALL CONTROL JOINT

NOTES:

1. MAXIMUM SPACING = 25'-0".
2. COORD. LOCATIONS W/ ARCHITECT / ALIGN W/ MASONRY CONTROL / EXPANSION JOINTS ABOVE.
3. COORDINATE W/ POST TENSION SLAB REQ'TS WHEN APPLICABLE & AS REQ'D.

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

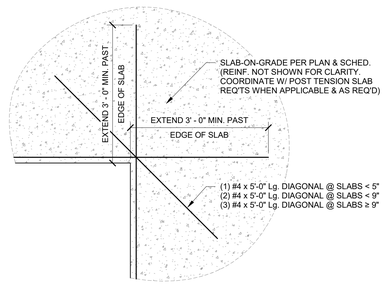


TYPICAL VERTICAL WALL CONSTRUCTION JOINT

NOTES:

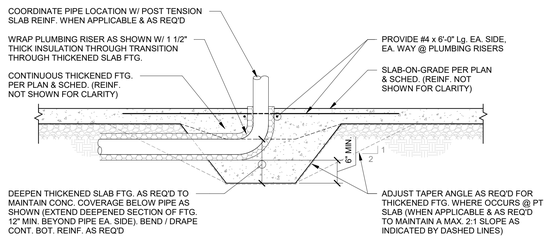
1. MAXIMUM SPACING = 100'-0".
2. COORDINATE W/ POST TENSION SLAB REQ'TS WHEN APPLICABLE & AS REQ'D.

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

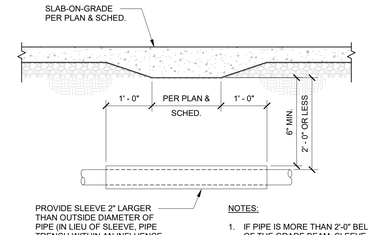


TYPICAL SLAB-ON-GRADE RE-ENTRANT CORNER BARS

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



TYPICAL PLUMBING RISER THROUGH THICKENED SLAB FTG.

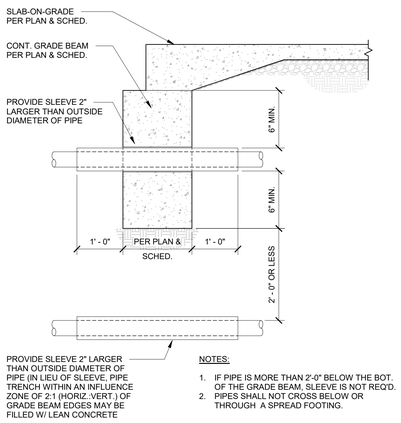


NOTES:

1. IF PIPE IS MORE THAN 2'-0" BELOW THE BOT. OF THE GRADE BEAM, SLEEVE IS NOT REQ'D.
2. IF PIPE FALLS WITHIN BOT. OF FTG. PROVIDE BOT. FOOTING STEP SUCH THAT 6" MIN. COVERAGE IS PROVIDED.

TYPICAL PLUMBING SLEEVE @ THICKENED SLAB FTG.

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



NOTES:

1. IF PIPE IS MORE THAN 2'-0" BELOW THE BOT. OF THE GRADE BEAM, SLEEVE IS NOT REQ'D.
2. PIPES SHALL NOT CROSS BELOW OR THROUGH A SPREAD FOOTING.

TYPICAL GRADE BEAM PLUMBING SLEEVE

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

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STATE OF MISSOURI
JOHN A. KRUDWIG
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PROFESSIONAL ENGINEER
04.11.23

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11200 Corporate Ave., Suite 110 Lenexa, Kansas 66219

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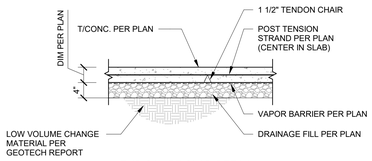
DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△ REVISIONS
1 23.0411 CITY COMMENTS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME FOUNDATION DETAILS
SHEET NO. S3.00

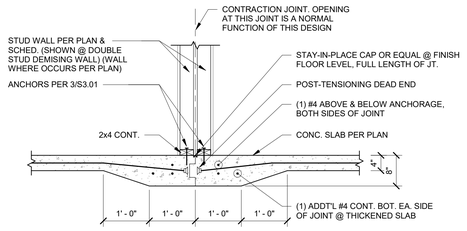
4/11/2023 5:43:13 PM

ARCH E1.30" x 42"



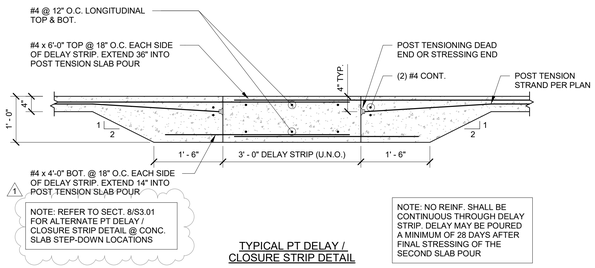
TYPICAL PT SLAB DETAIL

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



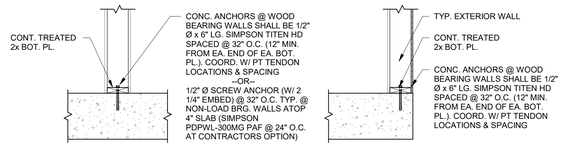
TYPICAL PT SLAB CONTRACTION JT. DETAIL

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



TYPICAL PT DELAY / CLOSURE STRIP DETAIL

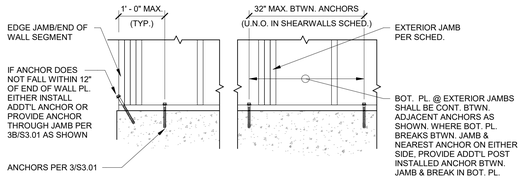
2A SECTION 3/4" = 1'-0"



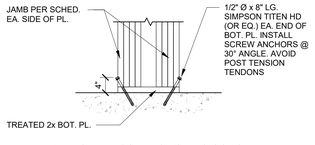
NOTES:
1. ALL BOT. PL's TO HAVE (2) ANCHORS MIN.
2. RE: SHEARWALL SCHEDULE ON SHEET S0.04 FOR ANCHORS @ SHEARWALLS
3. RE: 3A/S3.01 FOR DETAIL @ JAMB
4. RE: 3B/S3.01 FOR DETAIL AT SHORT BOT. PL. SEGMENTS/JAMBS (WHERE OCCURS)
5. CONTRACTOR SHALL IDENTIFY AND MARK RELATIVE POST TENSION TENDON LOCATIONS ON SLAB SO THAT TENDONS CAN BE AVOIDED DURING POST INSTALLED ANCHOR INSTALLATION

TYPICAL BOT. PL. CONNECTION TO CONCRETE

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

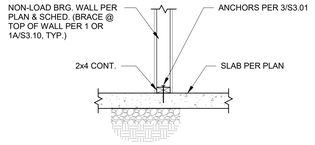


3A SECTION 3/4" = 1'-0"

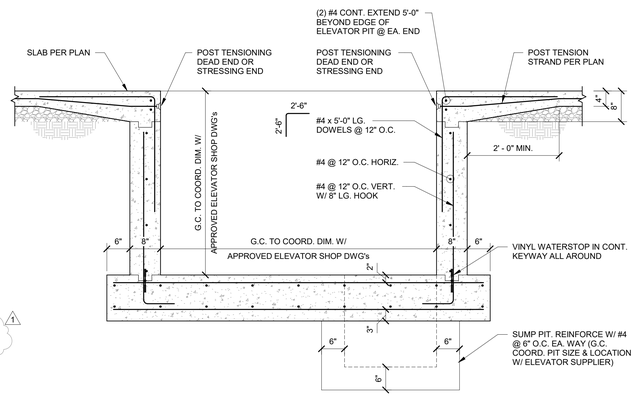


TYP. BOT. PL. CONNECTION TO CONC. @ SHORT PL. SEGMENTS & JAMBS

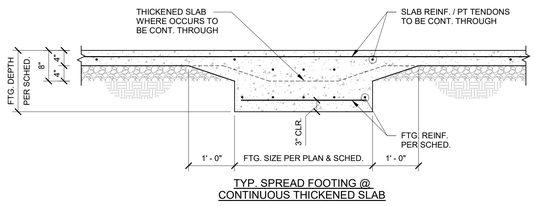
3B SECTION 3/4" = 1'-0"



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

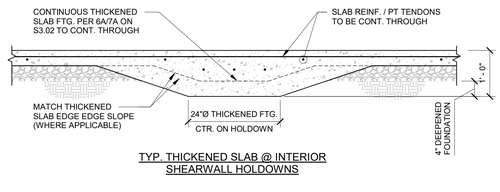


5 SECTION 3/4" = 1'-0"



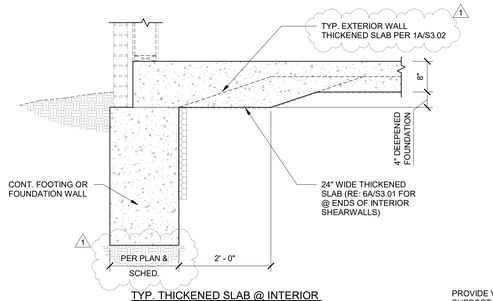
TYP. SPREAD FOOTING @ CONTINUOUS THICKENED SLAB

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



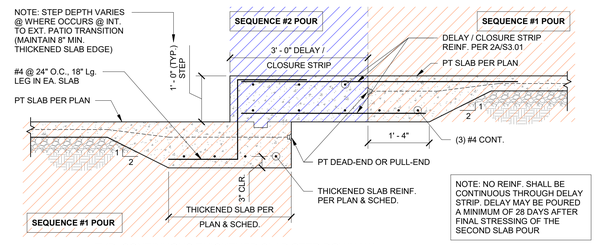
TYP. THICKENED SLAB @ INTERIOR SHEARWALL HOLDOWNS

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



TYP. THICKENED SLAB @ INTERIOR SHEARWALL HOLDOWNS

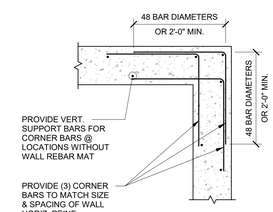
6B SECTION 3/4" = 1'-0"



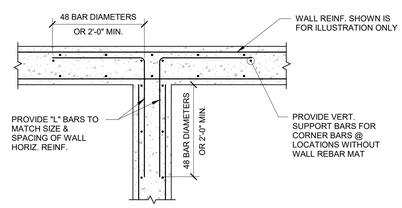
NOTE: NO REINF. SHALL BE CONTINUOUS THROUGH DELAY STRIP. DELAY MAY BE POURED A MINIMUM OF 28 DAYS AFTER FINAL STRESSING OF THE SECOND SLAB POUR

TYP. CONTINUOUS THICKENED SLAB STEP-DOWN W/ INCORPORATION OF PT DELAY / CLOSURE STRIP

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



TYP. CORNER REINFORCING BARS @ CONCRETE WALLS & FOUNDATIONS



TYP. T-INTERSECTION REINFORCING BARS @ CONCRETE WALLS & FOUNDATIONS

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

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STATE OF MISSOURI
JOHN A. SCHWAB
NUMBER PE-2005000228
PROFESSIONAL ENGINEER
04.11.23

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1 23 0411 CITY COMMENTS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
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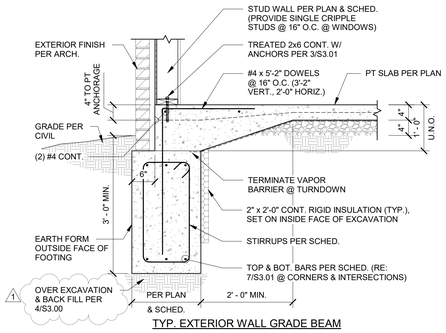
SHEET NAME FOUNDATION DETAILS
SHEET NO. S3.01

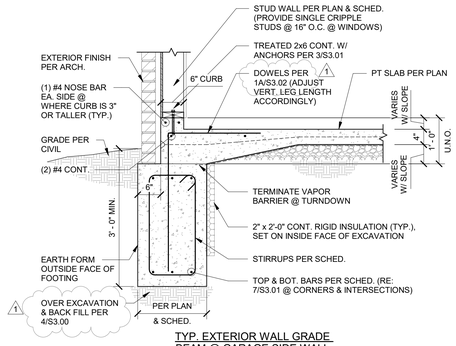
4/11/2023 5:43:20 PM

ARCH E1.30" x 42"



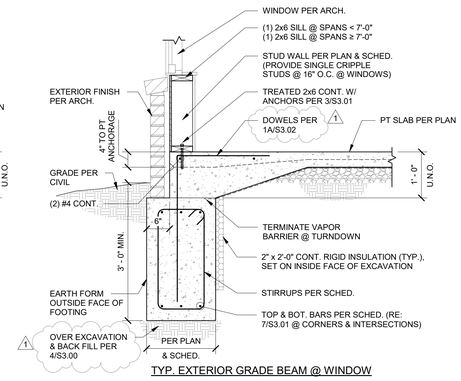
TYP. EXTERIOR WALL GRADE BEAM

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



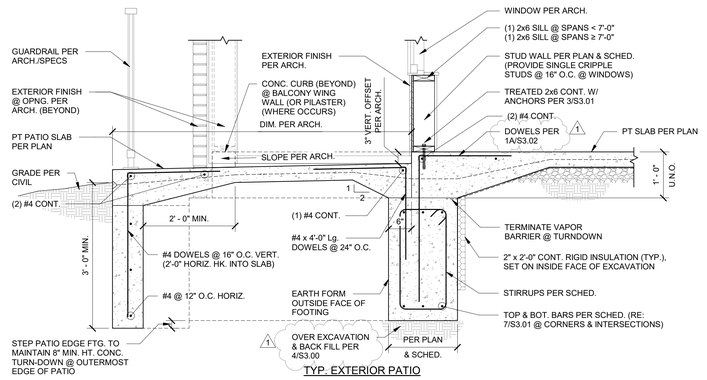
TYP. EXTERIOR WALL GRADE BEAM @ GARAGE SIDE WALL

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



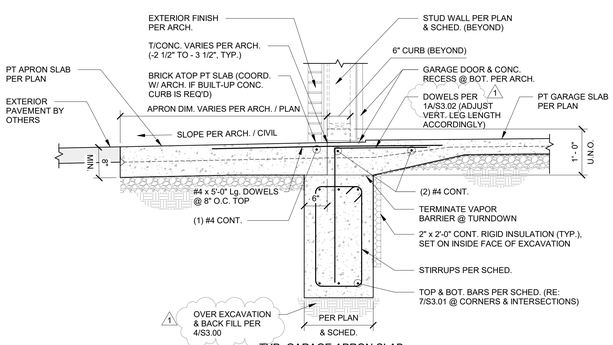
TYP. EXTERIOR GRADE BEAM @ WINDOW

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



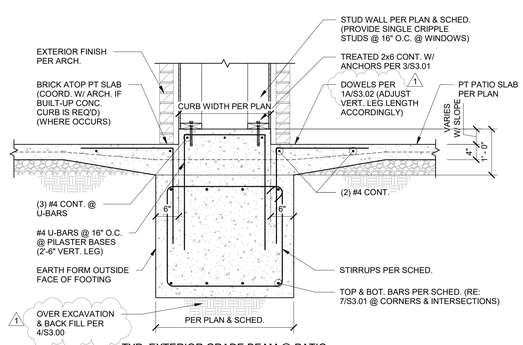
TYP. EXTERIOR PATIO

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



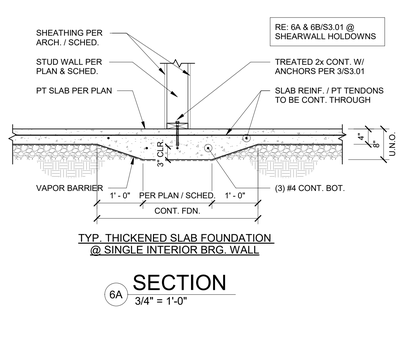
TYP. GARAGE APRON SLAB

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



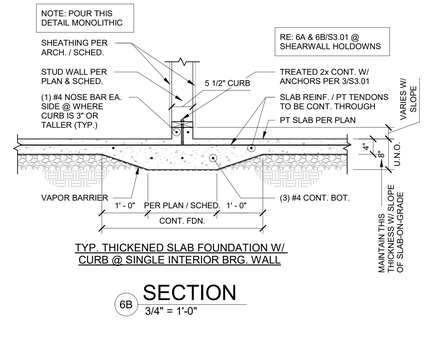
TYP. EXTERIOR GRADE BEAM @ PATIO PILASTER (END PILASTER SIM.)

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



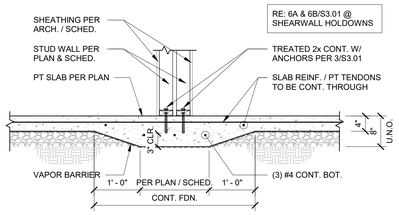
TYP. THICKENED SLAB FOUNDATION @ SINGLE INTERIOR BRG. WALL

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



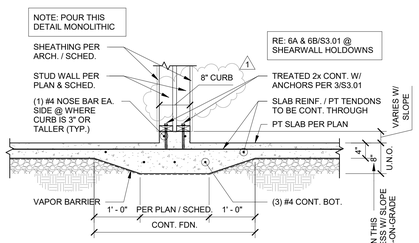
TYP. THICKENED SLAB FOUNDATION W/ CURB @ SINGLE INTERIOR BRG. WALL

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



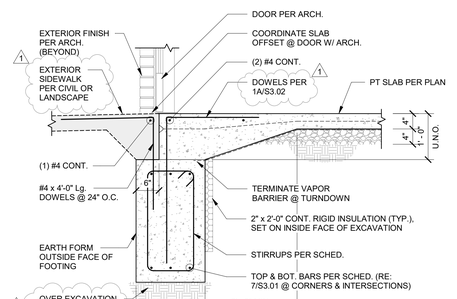
TYP. THICKENED SLAB FOUNDATION W/ DOUBLE INTERIOR BRG. WALL

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



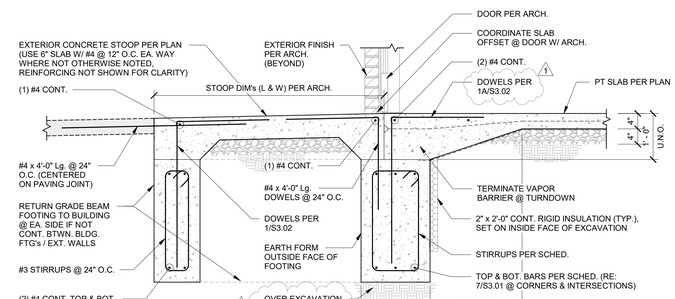
TYP. THICKENED SLAB FOUNDATION W/ CURB @ DOUBLE INTERIOR BRG. WALL

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



TYP. @ EXTERIOR DOORS W/OUT STOOP

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



TYP. @ EXTERIOR DOORS W/ STOOP

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

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JOHN A. KRUDWIG
NUMBER PE-2005000258
PROFESSIONAL ENGINEER
04.11.23

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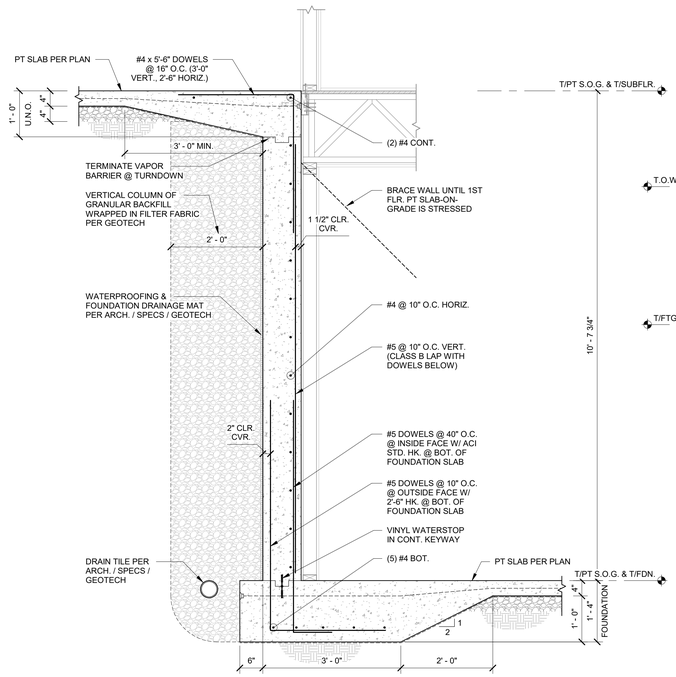
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME FOUNDATION DETAILS

SHEET NO. S3.02

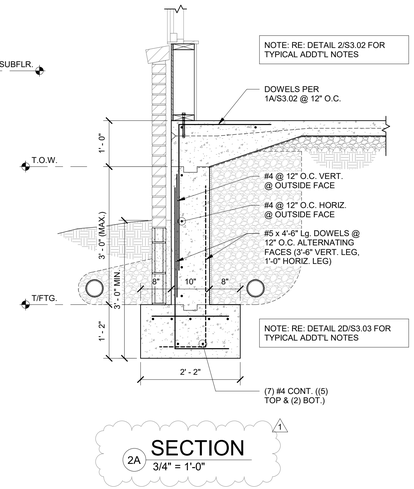
4/17/2023 5:43:27 PM

ARCH E1.30" x 42"

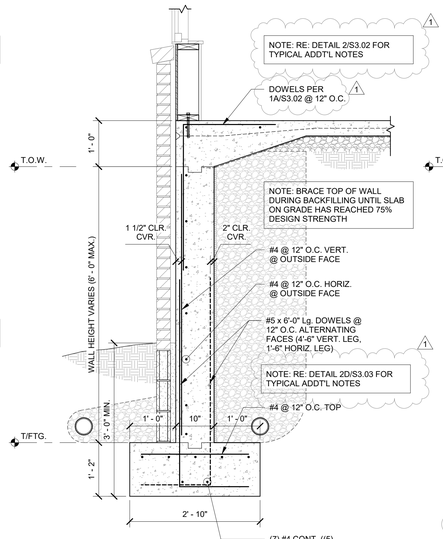


TYP. FOUNDATION WALL @ LEVEL TRANSITION

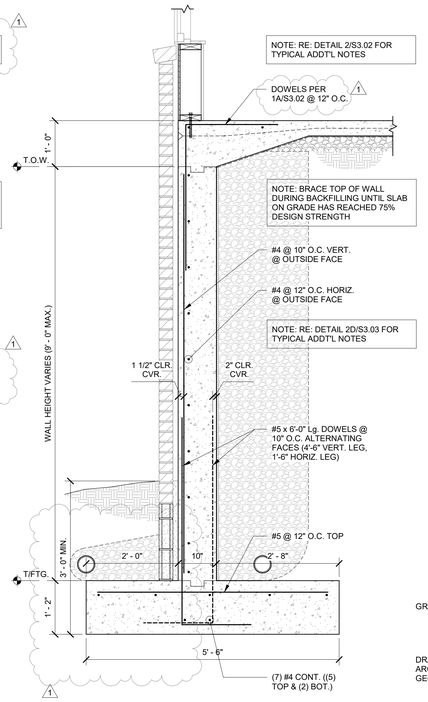
1 SECTION
3/4" = 1'-0"



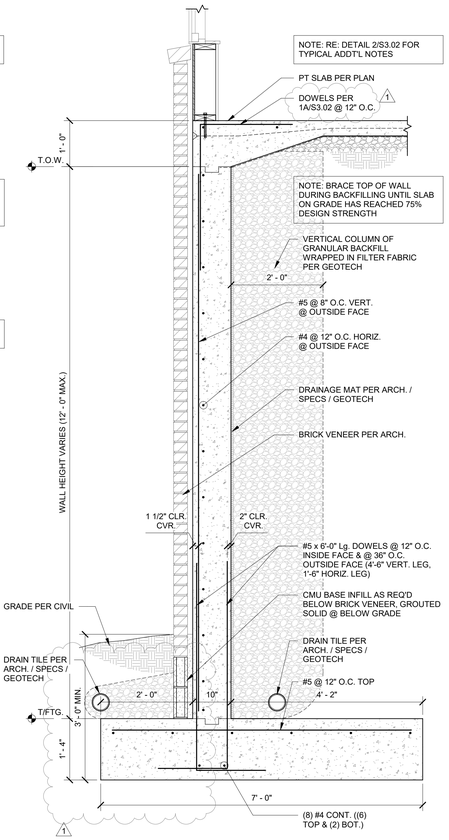
2A SECTION
3/4" = 1'-0"



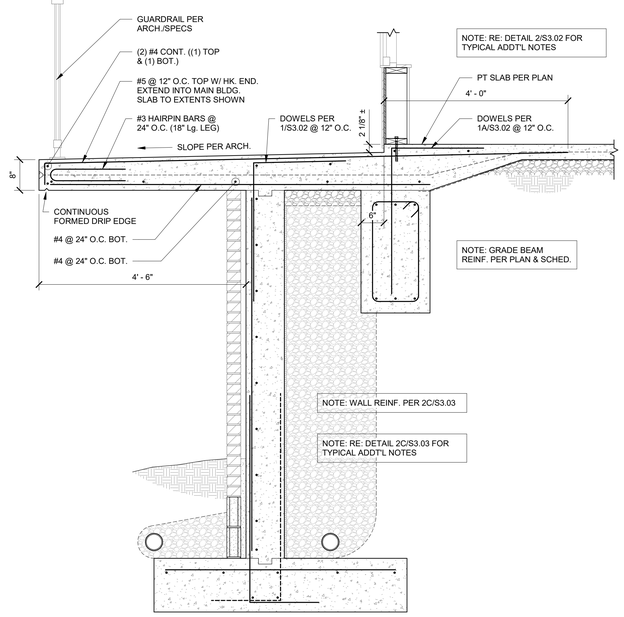
2B SECTION
3/4" = 1'-0"



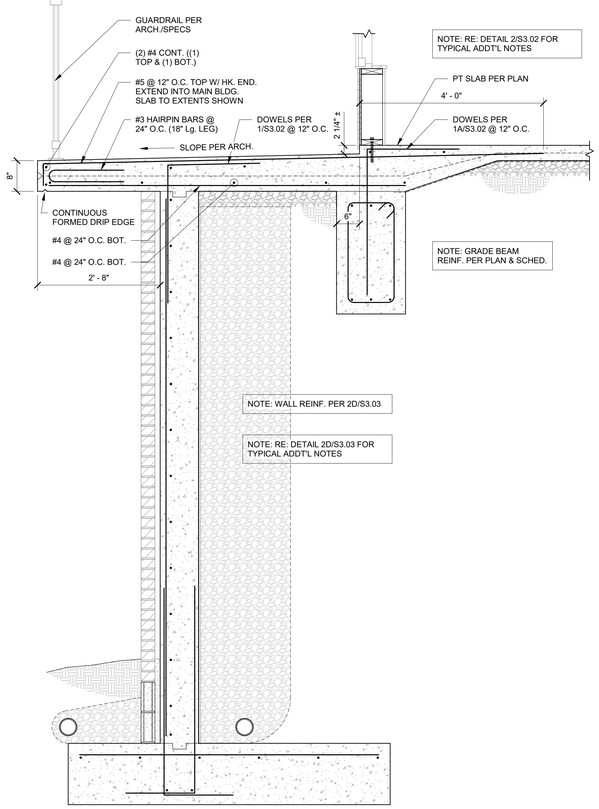
2C SECTION
3/4" = 1'-0"



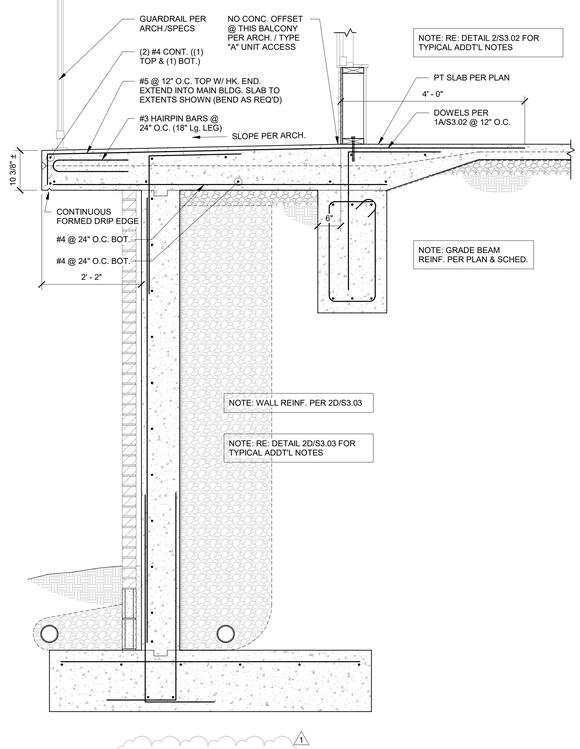
2D SECTION
3/4" = 1'-0"



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



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



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

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NUMBER PE-2005000252
PROFESSIONAL ENGINEER
04.11.23

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DATE 03/15/23
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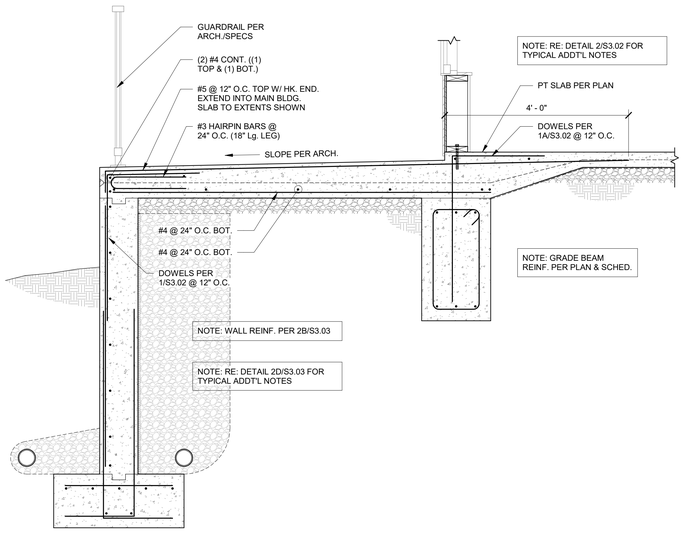
4.11.2023 CITY COMMENTS
SHEET NAME FOUNDATION DETAILS

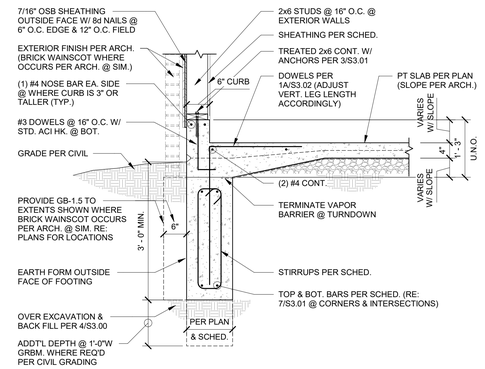
SHEET NO. S3.03

4/11/2023 5:43:33 PM

ARCH E1.30" x 42"

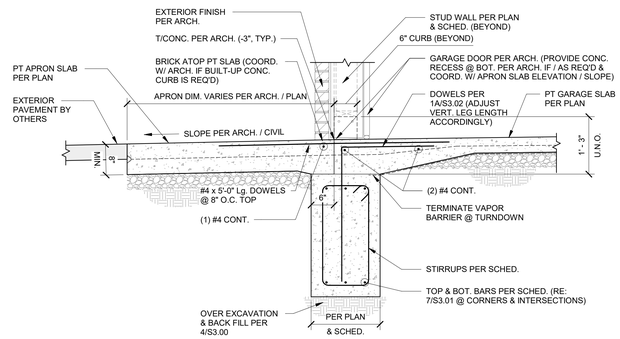


1 SECTION
3/4" = 1'-0"



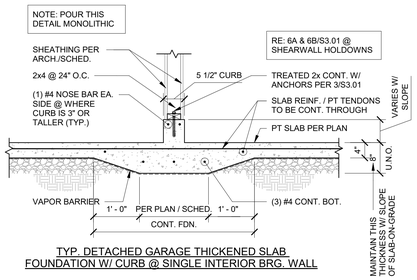
TYP. GRADE BEAM @ DETACHED GARAGE SIDE WALL

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



TYP. DETACHED GARAGE APRON SLAB

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



TYP. DETACHED GARAGE THICKENED SLAB FOUNDATION W/ CURB @ SINGLE INTERIOR BRG. WALL

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

TYP. TRASH ENCLOSURE SECTION

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

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JOB NO. PN1129
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DRAWN BY Author
4.11.2023
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△1
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S3.04

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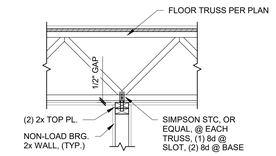
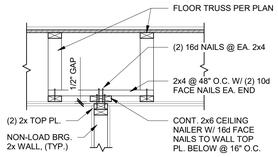
ARCH E1.30" x 42"



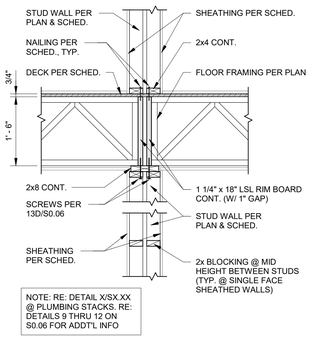
TYPICAL NON-LOAD BEARING WALL @ FLOOR TRUSS (PERPENDICULAR)

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



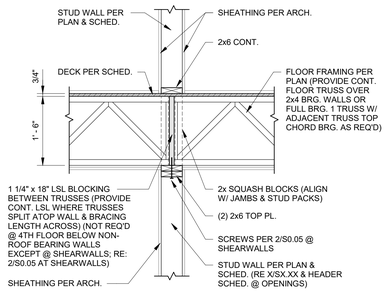
TYPICAL NON-LOAD BEARING WALL @ FLOOR TRUSS (PARALLEL)

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

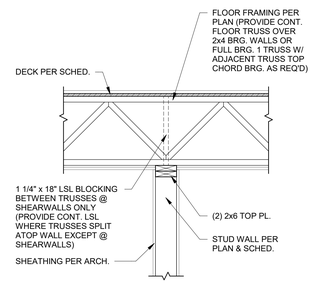


NOTE: RE: DETAIL X/SX.XX @ PLUMBING STACKS. RE: DETAILS 9 THRU 12 ON S0.06 FOR ADDT'L INFO

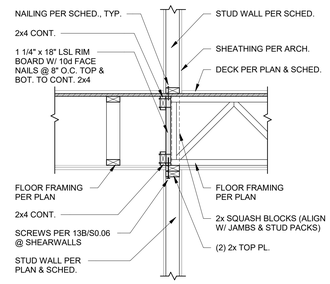
2 SECTION 3/4" = 1'-0"



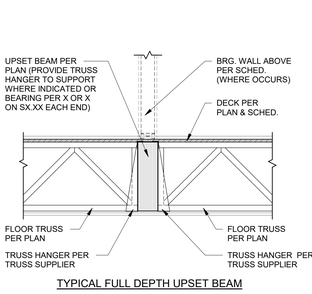
3 SECTION 3/4" = 1'-0"



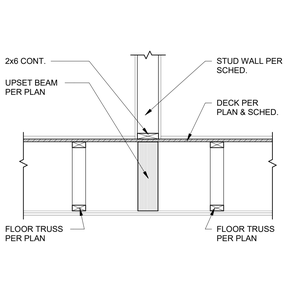
3A SECTION 3/4" = 1'-0"



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



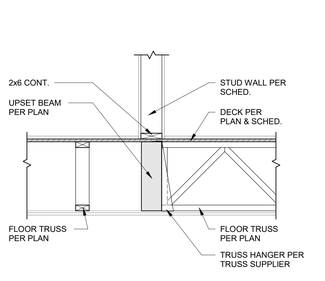
4A SECTION 3/4" = 1'-0"



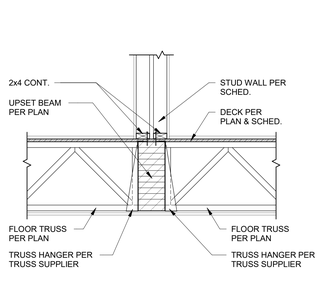
TYPICAL LOAD BEARING WALL PARALLEL TO FLOOR TRUSSES

NOTE: USE THIS DETAIL @ 14'-0" WIDE SECTION OF ROTATED CORRIDOR TRUSSES (RE: 8/S3.11)

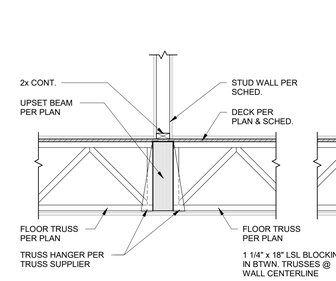
4B SECTION 3/4" = 1'-0"



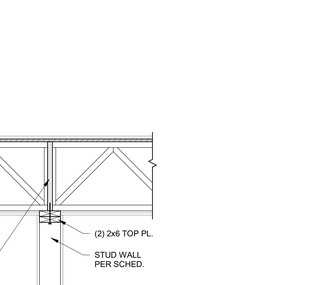
4C SECTION 3/4" = 1'-0"



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 SECTION 3/4" = 1'-0"

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

NOTE: RE: 11/S3.10 WHERE UPSET BEAM IF FULL HEIGHT OF FLOOR TRUSS OR TOP CHORD BRG. TRUSS IS NOT USED

TYPICAL SHALLOW UPSET BEAM

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

NOTE: RE: 11/S3.10 WHERE UPSET BEAM IF FULL HEIGHT OF FLOOR TRUSS OR TOP CHORD BRG. TRUSS IS NOT USED

TYPICAL SHALLOW UPSET BEAM SUPPORTING BEARING WALL

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

TYPICAL UPSET BEAM BEARING

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

TYPICAL FULL DEPTH UPSET BEAM

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

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

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

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

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

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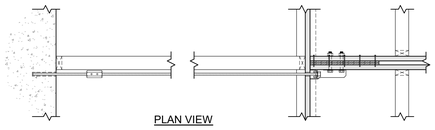
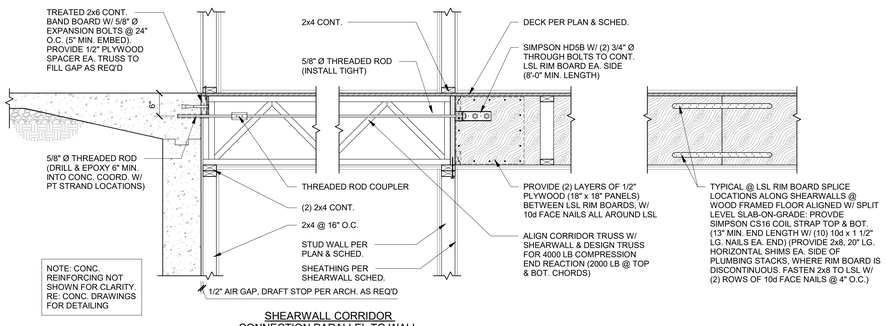
DATE 03/15/23
DRAWN BY KSE
4.11.2023 CITY COMMENTS
SHEET NAME FLOOR FRAMING DETAILS
SHEET NO. S3.10

4/11/2023 5:43:48 PM

ARCH E1 30" x 42"

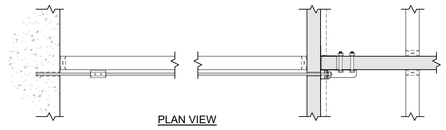


PLAN VIEW

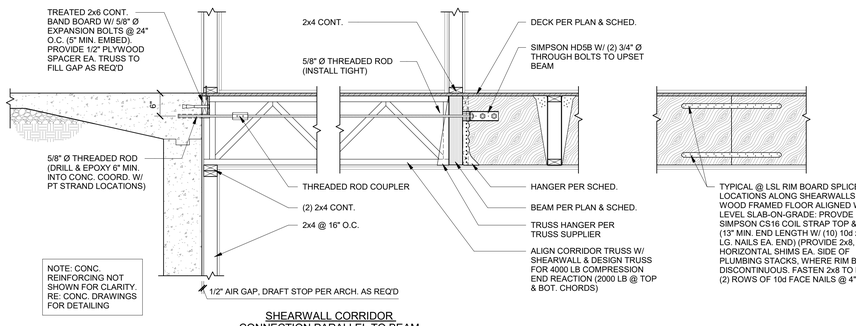


SHEARWALL CORRIDOR CONNECTION PARALLEL TO WALL

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

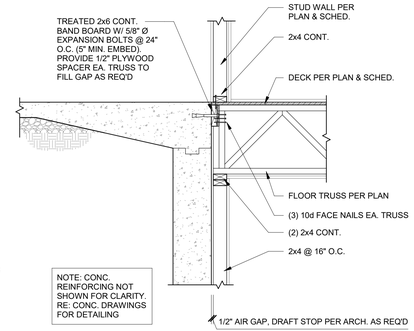


PLAN VIEW

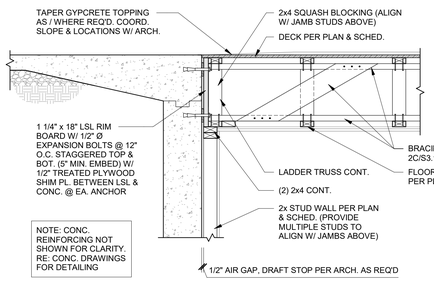


SHEARWALL CORRIDOR CONNECTION PARALLEL TO BEAM

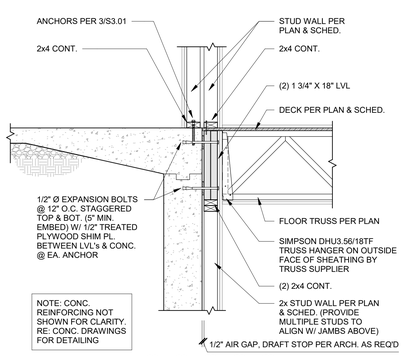
1A SECTION 3/4" = 1'-0"



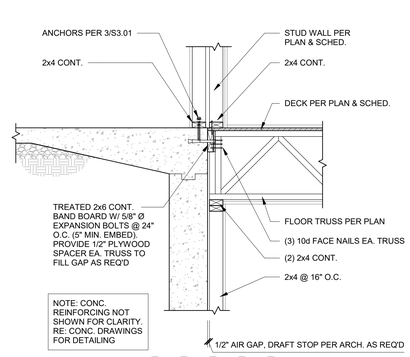
2 SECTION 3/4" = 1'-0"



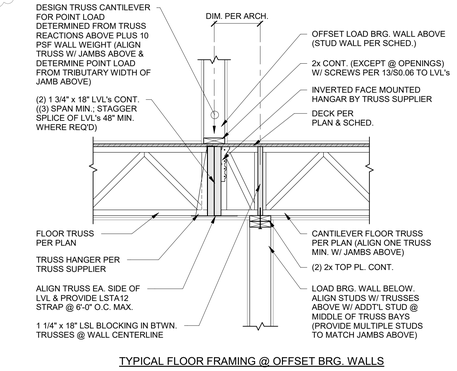
2A SECTION 3/4" = 1'-0"



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

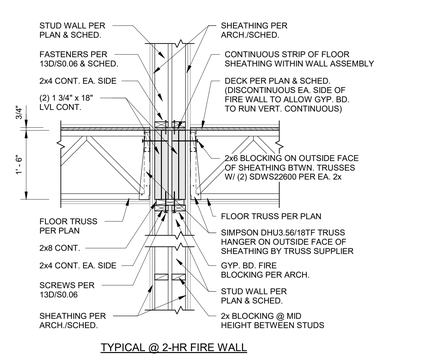


2C SECTION 3/4" = 1'-0"



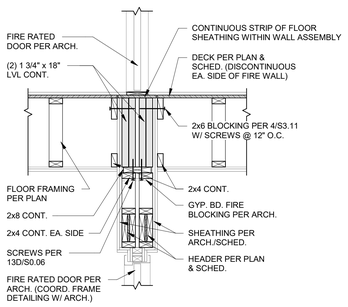
TYPICAL FLOOR FRAMING @ OFFSET BRG. WALLS

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



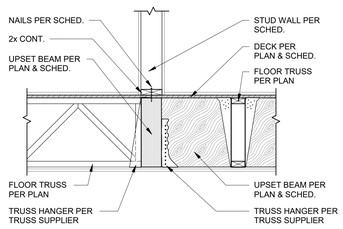
TYPICAL @ 2-HR FIRE WALL

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



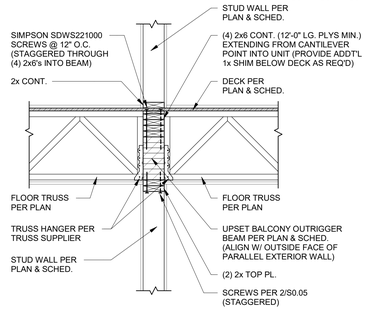
TYPICAL @ 2-HR FIRE WALL DOOR OPENING

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

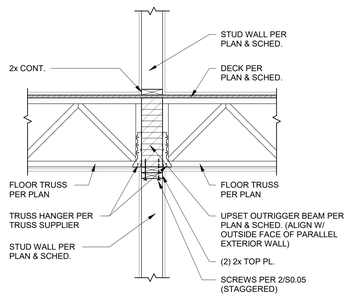


TYPICAL @ INTERSECTING BEAMS & FLOOR FRAMING

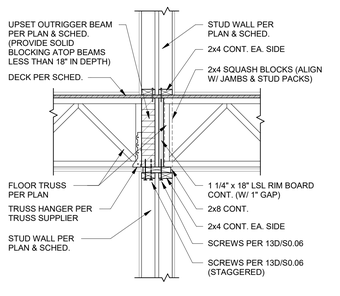
5 SECTION 3/4" = 1'-0"



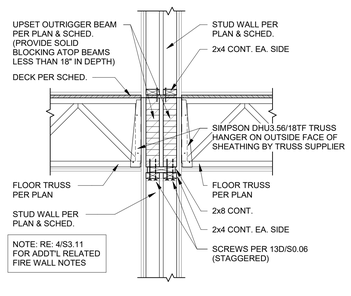
6 SECTION 3/4" = 1'-0"



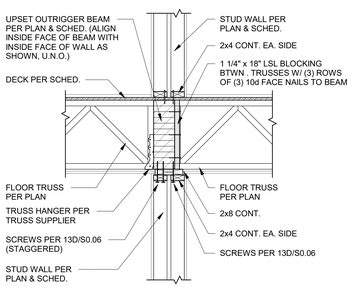
6A SECTION 3/4" = 1'-0"



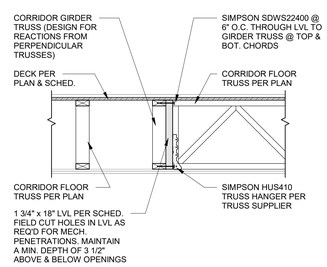
7 SECTION 3/4" = 1'-0"



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



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



TYPICAL @ ROTATED CORRIDOR FRAMING (RE: 4B/S3.10)

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

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- 03.15.2023 - PERMIT SUBMITTAL

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JOB NO. PN1129
DATE 03/15/23
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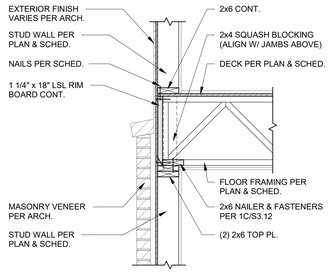
4.11.2023 CITY COMMENTS
SHEET NAME FLOOR FRAMING DETAILS

SHEET NO. S3.11

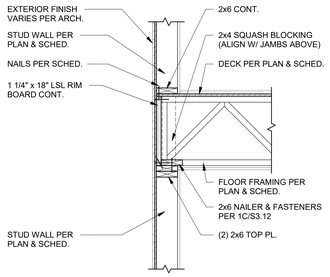
4/17/2023 5:43:56 PM

ARCH E1.30" x 42"



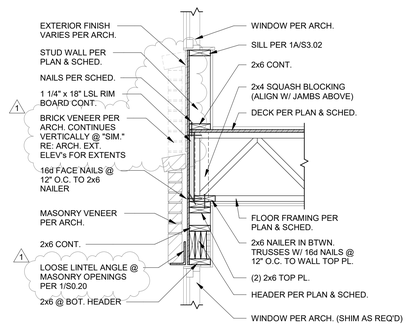
TYPICAL EXTERIOR WALL W/ PERPENDICULAR TRUSS FRAMING @ MASONRY

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



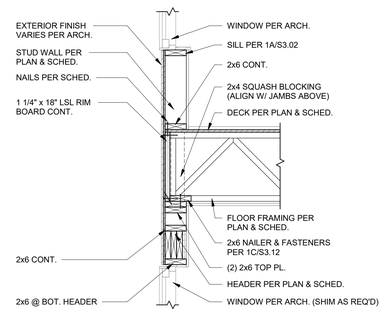
TYPICAL EXTERIOR WALL W/ PERPENDICULAR TRUSS FRAMING @ SIDING/STUCCO

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



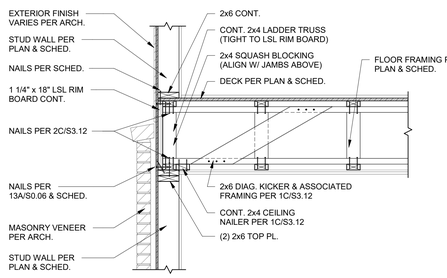
TYPICAL EXTERIOR WALL @ WINDOWS W/ PERPENDICULAR TRUSS FRAMING @ MASONRY

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



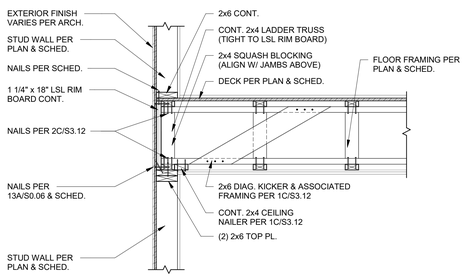
TYPICAL EXTERIOR WALL @ WINDOWS W/ PERPENDICULAR TRUSS FRAMING @ SIDING/STUCCO

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



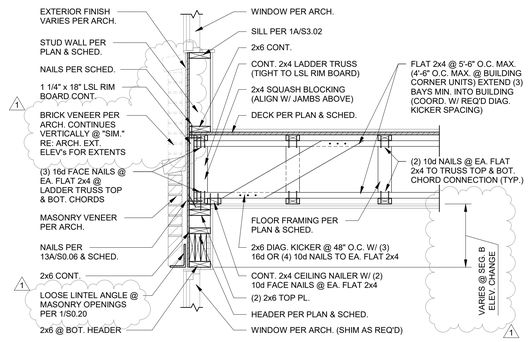
TYPICAL EXTERIOR WALL W/ PARALLEL TRUSS FRAMING @ MASONRY

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



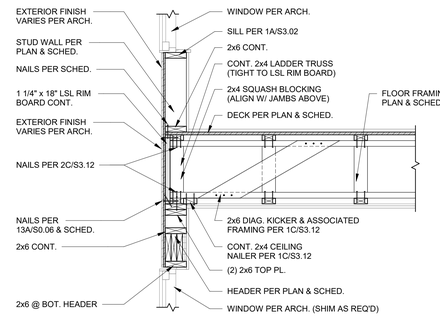
TYPICAL EXTERIOR WALL W/ PARALLEL TRUSS FRAMING @ SIDING/STUCCO

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



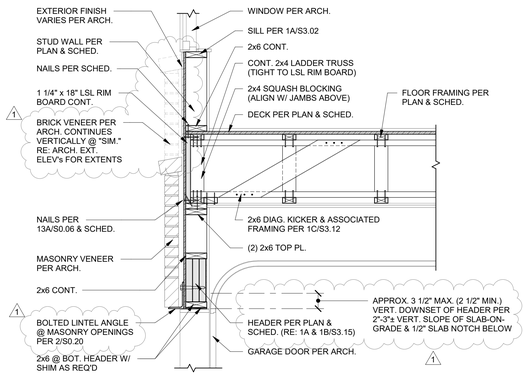
TYPICAL EXTERIOR WALL @ WINDOWS W/ PARALLEL TRUSS FRAMING @ MASONRY

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



TYPICAL EXTERIOR WALL @ WINDOWS W/ PARALLEL TRUSS FRAMING @ SIDING/STUCCO

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



TYPICAL EXTERIOR WALL @ GARAGE DOOR W/ PARALLEL TRUSS FRAMING @ MASONRY

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

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NUMBER PE-2005000258
PROFESSIONAL ENGINEER
04.11.23

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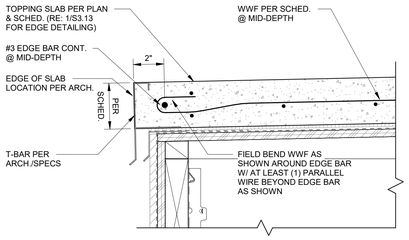
4.11.2023
CITY COMMENTS
SHEET NAME
FLOOR FRAMING DETAILS

SHEET NO.
S3.12

4/11/2023 5:44:03 PM

ARCH E1.30" x 42"



TYPICAL BALCONY SLAB EDGE DETAIL

1 SECTION
3" = 1'-0"

GENERAL BALCONY NOTES:

1. PROVIDE #3 CONT. @ BALCONY CONC. SLAB EDGES, TYP.
2. @ SIDES OF PROJECTING BALCONY SLABS, PROVIDE #3 EXTENDED TO EDGE OF SLAB W/ 24" Lg. LEG @ EDGE OF SLAB & EXTEND 24" PAST CORNER OF WALL @ OPPOSITE END.
3. CENTER PILASTERS / DIVIDING WALLS FRAMED W/ 2x6's @ 16" O.C., TYP.
4. @ PILASTERS & RETURN WALLS, PROVIDE BEARING STUDS @ BALCONY BEAM SUPPORTS PER SCHED.
5. @ CENTER PILASTER SIDE WALLS, PROVIDE (2) 2x JOISTS (MATCH SIZE PER PLAN & SCHED.) @ BELOW WALL EDGES FOR WALL SUPPORT WITHIN BALCONY FLOOR FRMG.
6. @ CENTER PILASTER OUTER WALL, PROVIDE (2) 2x12 BLOCKING @ END OF / IN BETWEEN ENDS OF BALCONY BEAMS @ TOP OF WALL CONNECTED W/ (2) SDWS22800 END SCREWS EA. END OF EA. PLY.
7. 2x LEDGERS TO BE CONNECTED W/ SIMPSON SDWS22400DB SCREWS @ 6" O.C. STAGGERED. RE: 3/S0.04 & 8/S0.07.
8. PROVIDE FULL DEPTH BLOCKING @ MID-HEIGHT OF STUDS (TYP. @ STUDS SHEATHED ON ONE SIDE).

△1

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FLOOR FRAMING DETAILS

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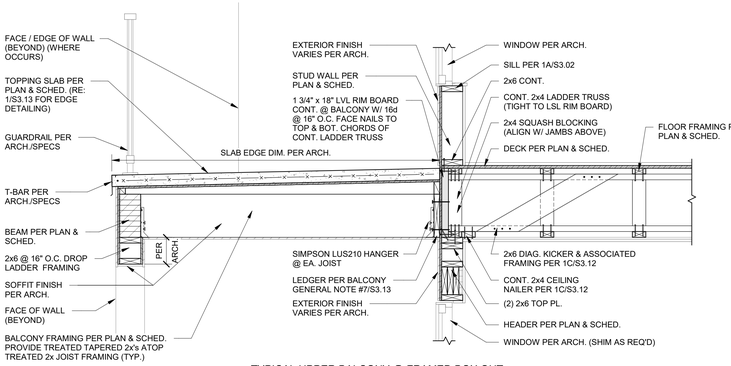
S3.13

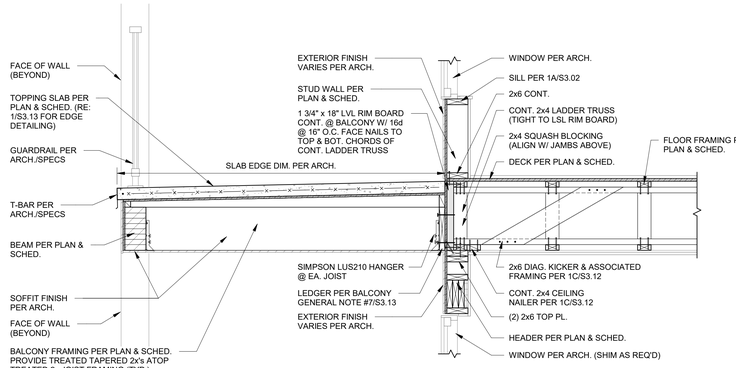
4/11/2023 5:44:06 PM

ARCH E1.30" x 42"



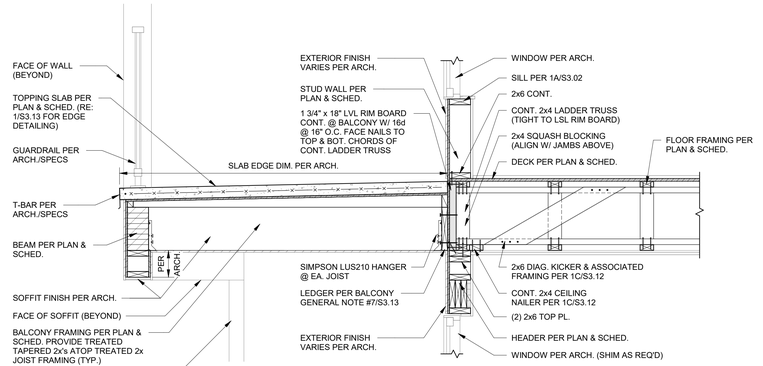
TYPICAL UPPER BALCONY @ FRAMED BOX-OUT

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



TYPICAL MIDDLE BALCONY @ FRAMED BOX-OUT

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



TYPICAL LOWER BALCONY @ FRAMED BOX-OUT

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

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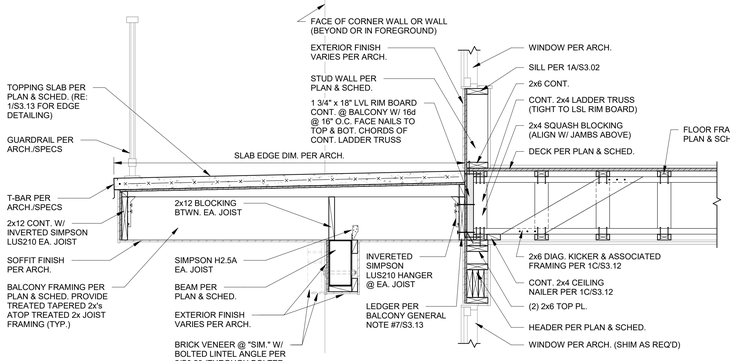
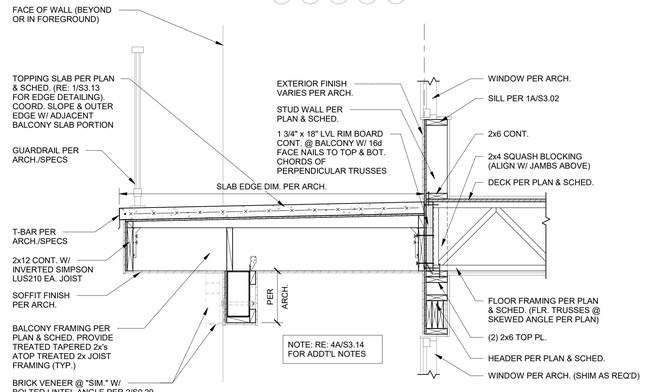
JOHN A. SCHLAGETTER
NUMBER PE-2005000226
PROFESSIONAL ENGINEER
04.11.23



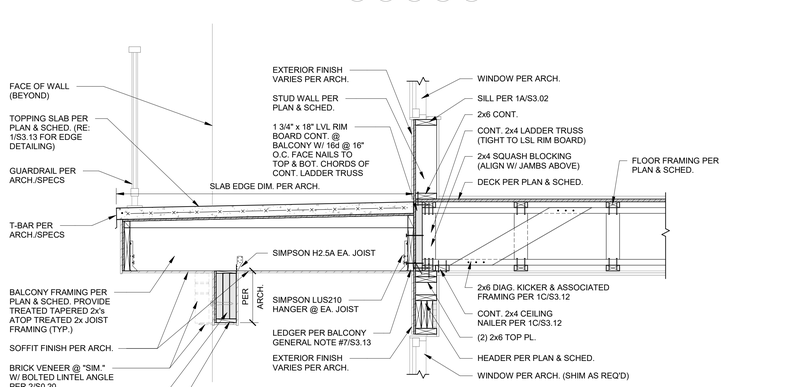
TYPICAL CORNER UNIT BALCONY W/ CANTILEVERED JOISTS

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



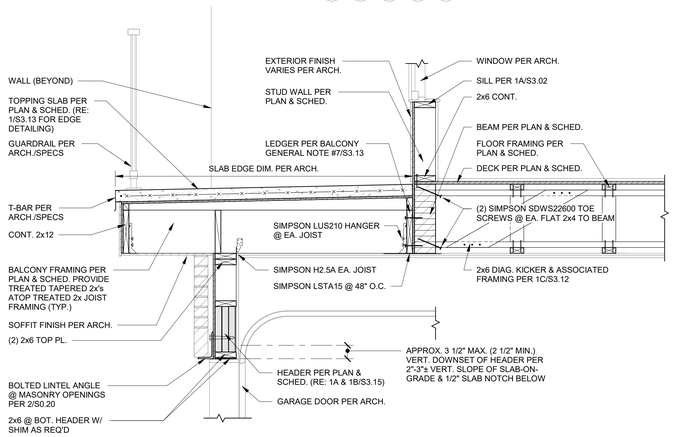
TYPICAL ANGLED CORNER UNIT BALCONY W/ CANTILEVERED JOISTS (@ ROTATED FRMG.)

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



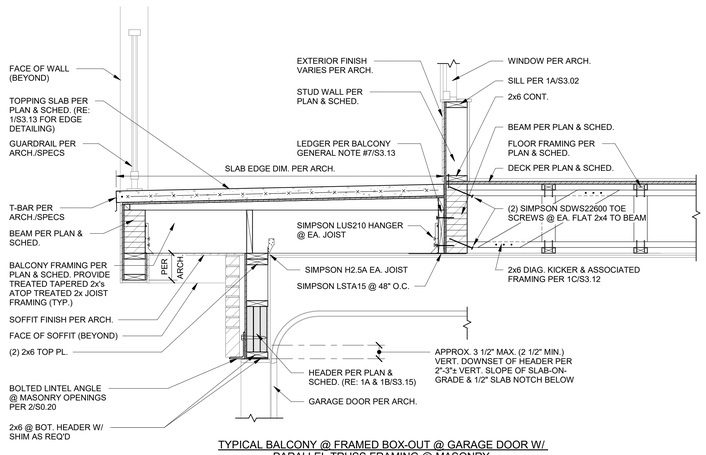
TYPICAL OPEN EDGE BALCONY

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



TYPICAL OPEN EDGE BALCONY @ GARAGE DOOR W/ PARALLEL TRUSS FRAMING @ MASONRY

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



TYPICAL BALCONY @ FRAMED BOX-OUT @ GARAGE DOOR W/ PARALLEL TRUSS FRAMING @ MASONRY

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

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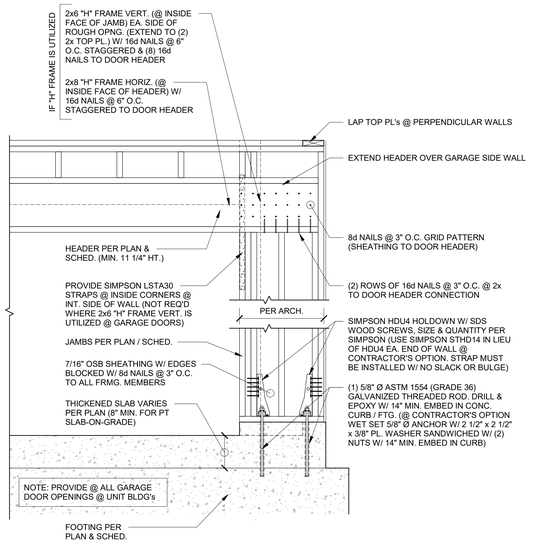
JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
FLOOR FRAMING DETAILS

SHEET NO.
S3.14

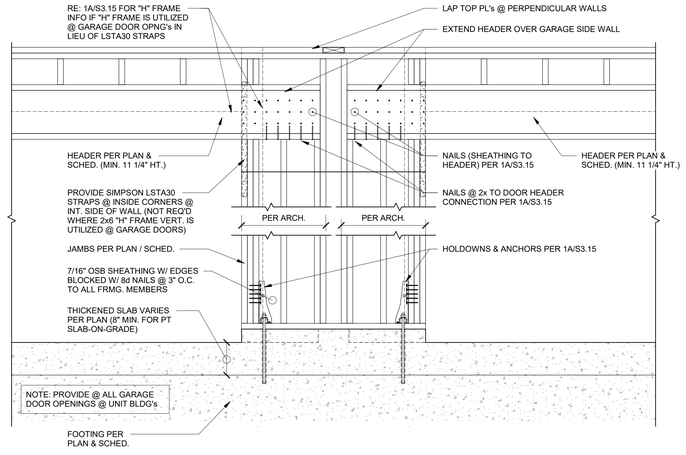
4/11/2023 5:44:12 PM

ARCH E1.30" x 42"



TYPICAL PORTAL FRAME DETAIL @ END OF SINGLE GARAGE DOOR OPNG.

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



TYPICAL PORTAL FRAME DETAIL @ BTWN. GARAGE DOOR OPNG's

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

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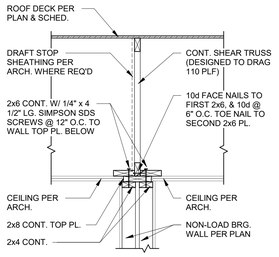
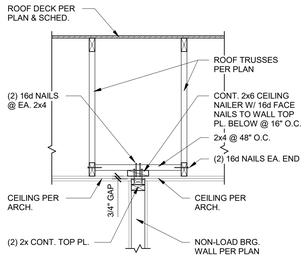
ARCH E1 30" x 42"



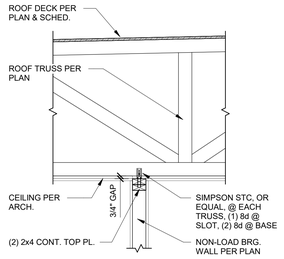
TYPICAL SHEAR TRUSS ATOP SHEARWALL

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



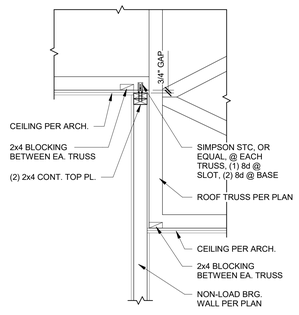
TYPICAL NON-LOAD BEARING WALL / TRUSS @ ROOF (PARALLEL)

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



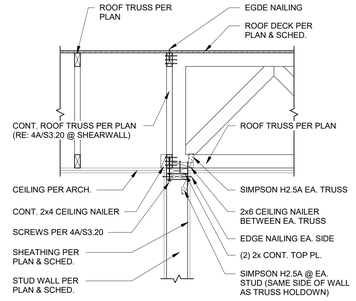
TYPICAL NON-LOAD BEARING WALL / TRUSS @ ROOF (PERPENDICULAR)

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



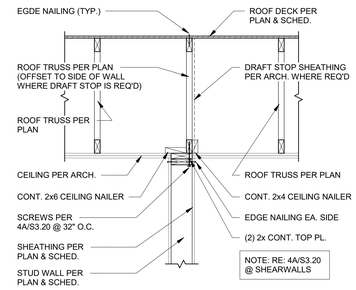
TYPICAL NON-LOAD BEARING WALL / TRUSS @ ROOF @ RAISED PL. (PERPENDICULAR)

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



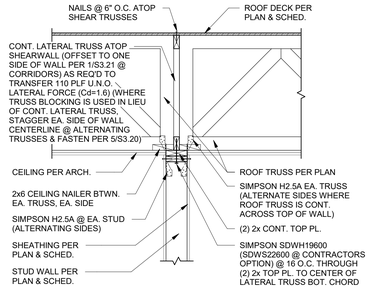
TYPICAL INTERSECTING ROOF TRUSSES @ BRG. WALL

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



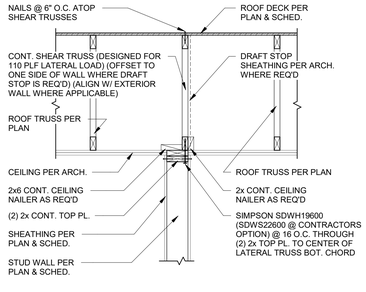
TYPICAL ROOF TRUSSES PARALLEL @ BRG. WALL

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



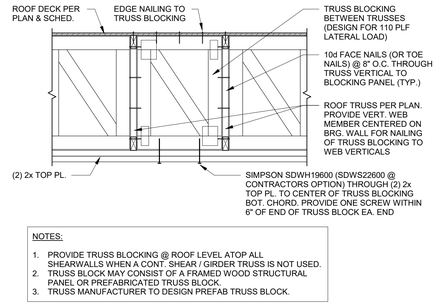
TYPICAL LATERAL TRUSS ATOP SHEARWALL PERPENDICULAR TO TRUSS SPAN

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



TYPICAL LATERAL TRUSS ATOP SHEARWALL PARALLEL TO TRUSS SPAN

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

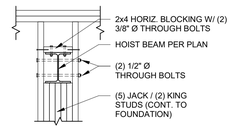


NOTES:

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

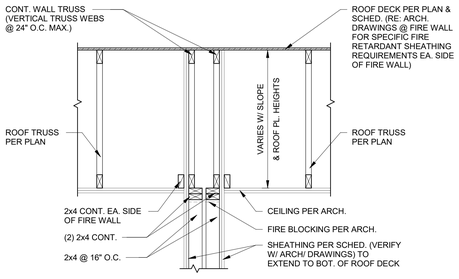
TYPICAL ROOF TRUSS BLOCKING @ SHEARWALLS

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



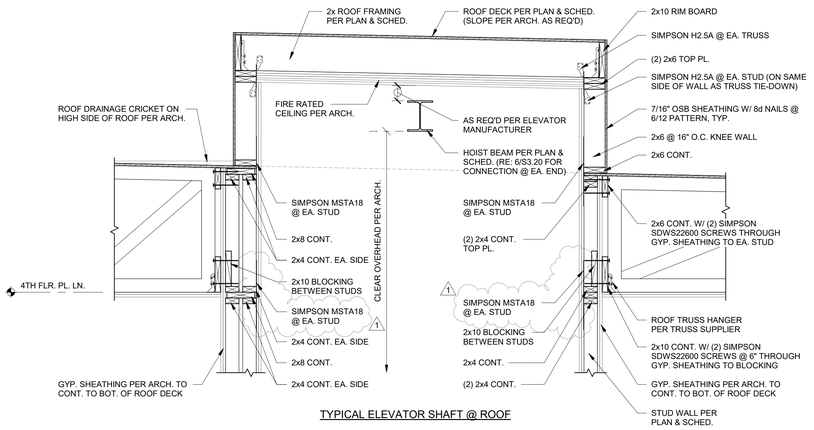
TYPICAL ELEVATOR HOIST BEAM CONNECTION

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



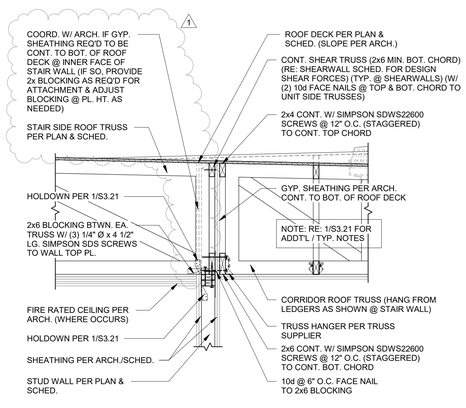
TYPICAL ROOF @ FIRE WALL

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



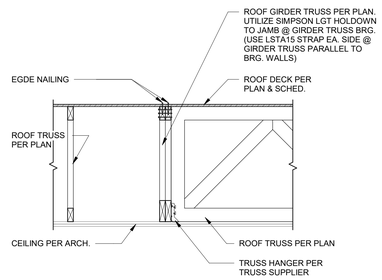
TYPICAL ELEVATOR SHAFT @ ROOF

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



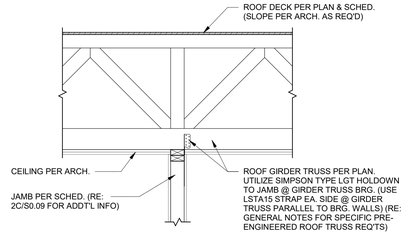
TYPICAL ROOF TRUSS BRG. @ CORRIDOR BRG. WALL @ STAIR (WHERE OCCURS)

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



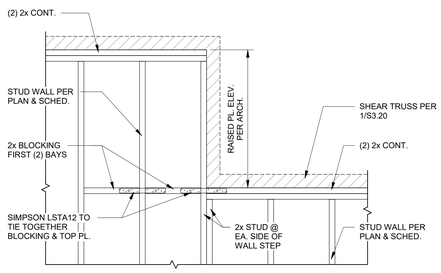
TYPICAL INTERSECTING ROOF TRUSS @ GIRDER TRUSS

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



TYPICAL @ ROOF GIRDER TRUSS BRG.

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



TYPICAL @ WALL STEP @ RAISED PL.

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

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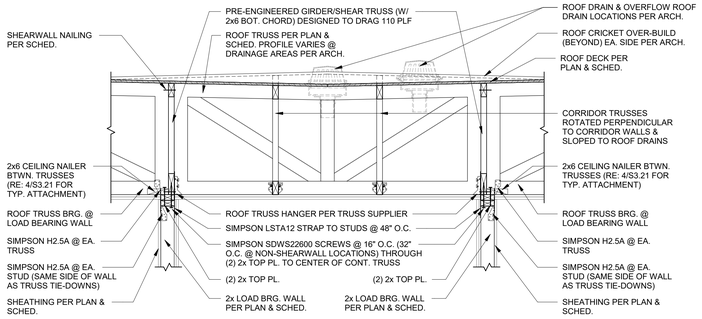
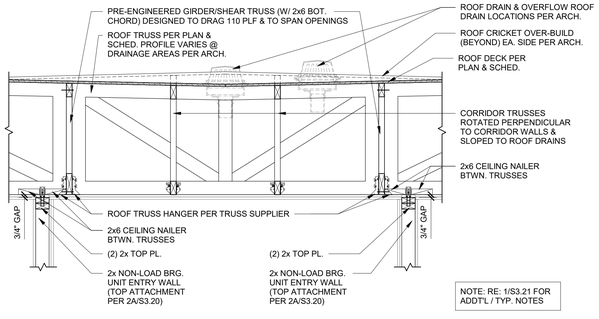
ARCH E1 30" x 42"



NOTE: WHERE DRAFT STOP IS REQ'D PER ARCH., PROVIDE SHEATHING DIRECTLY TO CONT. GIRDER/SHEAR TRUSS & PROVIDE TRUSS HANGER TO OUTSIDE FACE OF SHEATHING PER 4/S3.21.

TYPICAL CORRIDOR TRUSS SECTION @ CORRIDOR BRG. WALLS

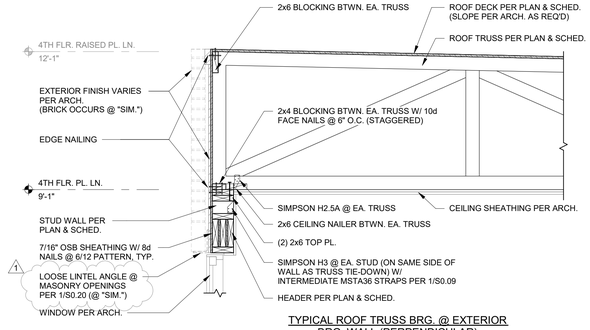
1 SECTION 3/4" = 1'-0"



NOTE: RE: 1/S3.21 FOR ADDT'L / TYP. NOTES

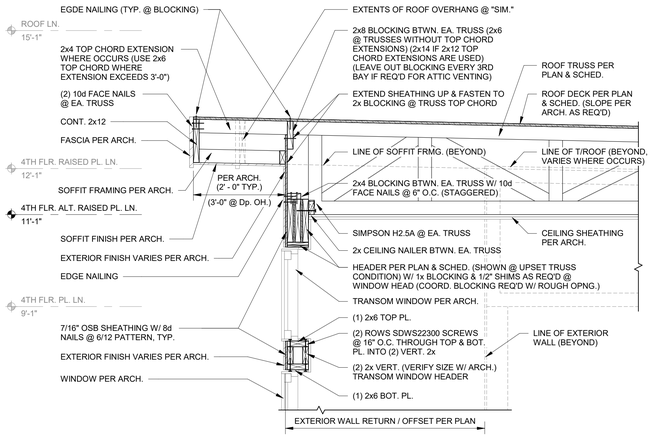
TYPICAL CORRIDOR TRUSS SECTION @ CORRIDOR WALL OPENINGS

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



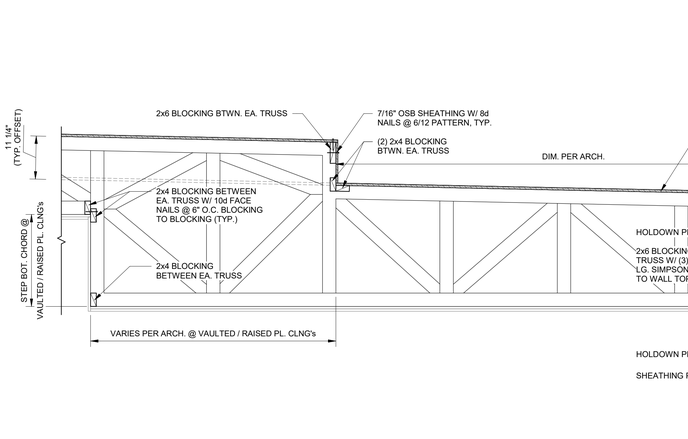
TYPICAL ROOF TRUSS BRG. @ EXTERIOR BRG. WALL (PERPENDICULAR)

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



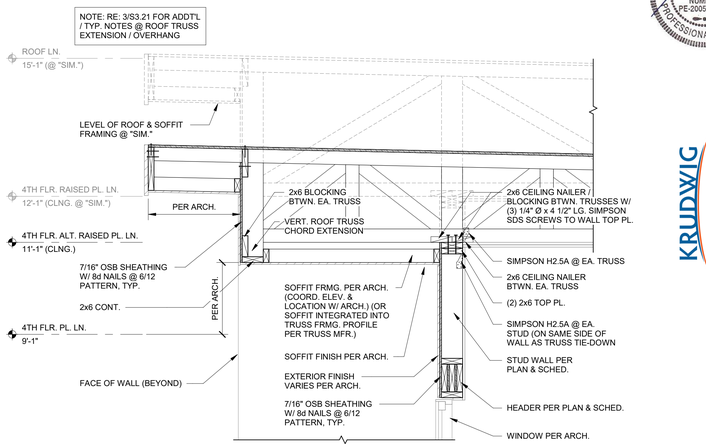
TYPICAL ROOF TRUSS BRG. @ EXTERIOR BRG. WALL @ ROOF POP-UP

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



TYPICAL UNIT ROOF TRUSS BRG. @ CORRIDOR BRG. WALLS & ROOF POP-UP

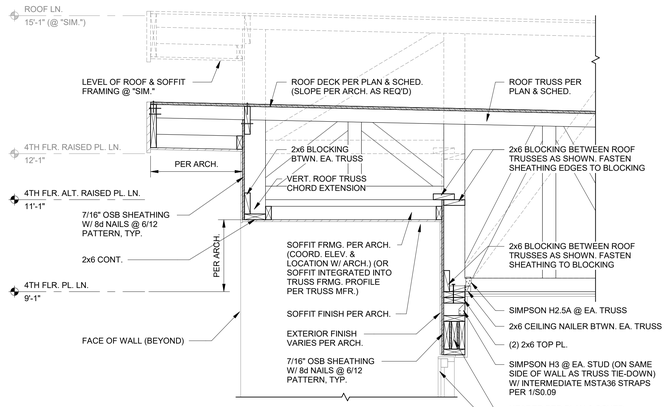
4 SECTION 3/4" = 1'-0" 1



TYPICAL ROOF TRUSS BRG. @ EXTERIOR BRG. WALL & BALCONY OPNG. @ ROOF & TALL ROOF POP-UPS

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

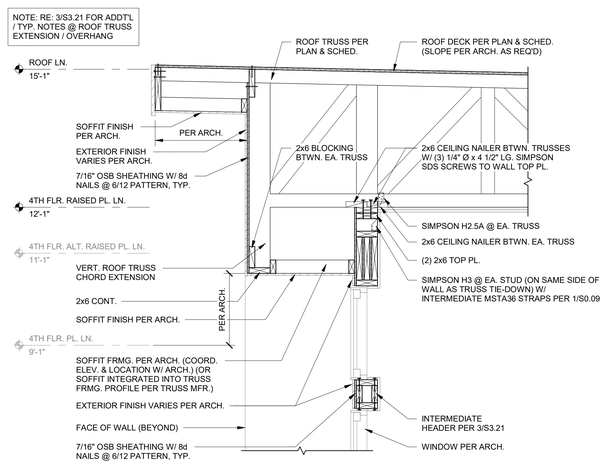
NOTE: RE: 3/S3.21 FOR ADDT'L / TYP. NOTES @ ROOF TRUSS EXTENSION / OVERHANG



TYPICAL ROOF TRUSS BRG. @ EXTERIOR BRG. WALL & BALCONY OPNG. @ ROOF & TALL ROOF POP-UPS

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

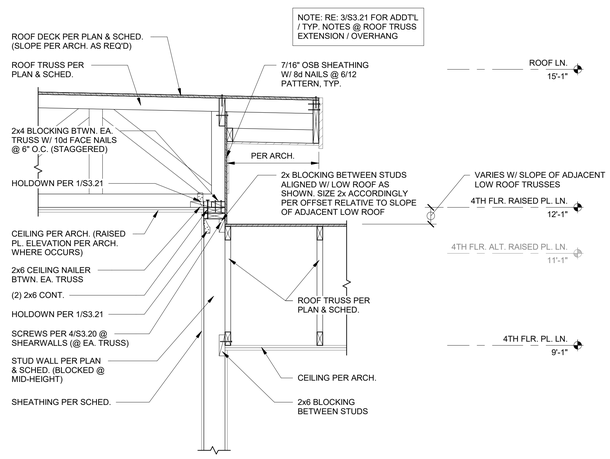
NOTE: RE: 3/S3.21 FOR ADDT'L / TYP. NOTES @ ROOF TRUSS EXTENSION / OVERHANG



TYPICAL UNIT ROOF TRUSS BRG. @ CORNER UNIT TALL ROOF POP-UP (PERPENDICULAR)

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

NOTE: RE: 3/S3.21 FOR ADDT'L / TYP. NOTES @ ROOF TRUSS EXTENSION / OVERHANG



TYPICAL UNIT ROOF TRUSS BRG. @ CORNER UNIT TALL ROOF POP-UP (PERPENDICULAR)

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

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STATE OF MISSOURI JOHN A. SCHLICHTMANN NUMBER PE-2005000226 PROFESSIONAL ENGINEER
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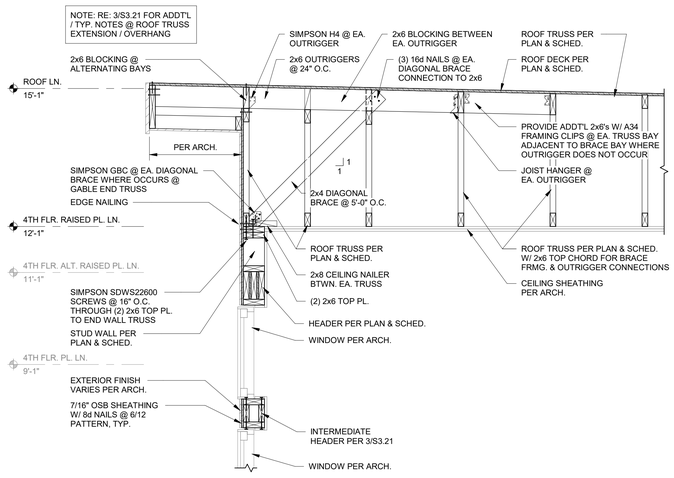
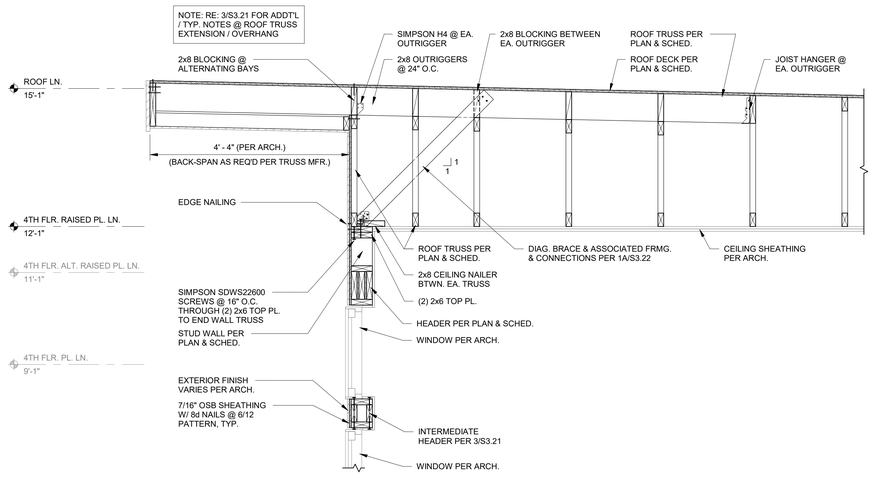


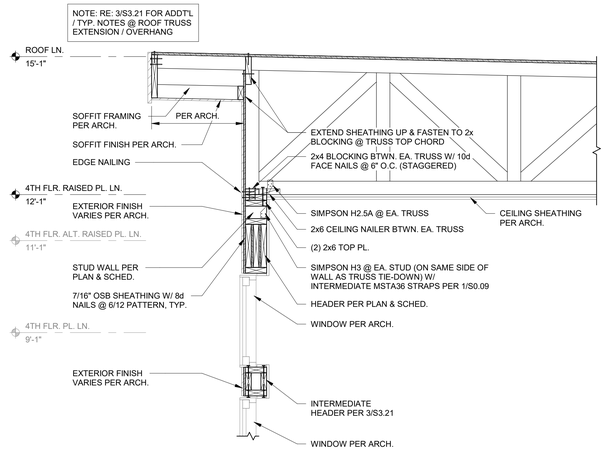
TYPICAL UNIT ROOF TRUSS BRG. @ CORNER
UNIT TALL ROOF POP-UP (PARALLEL)

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



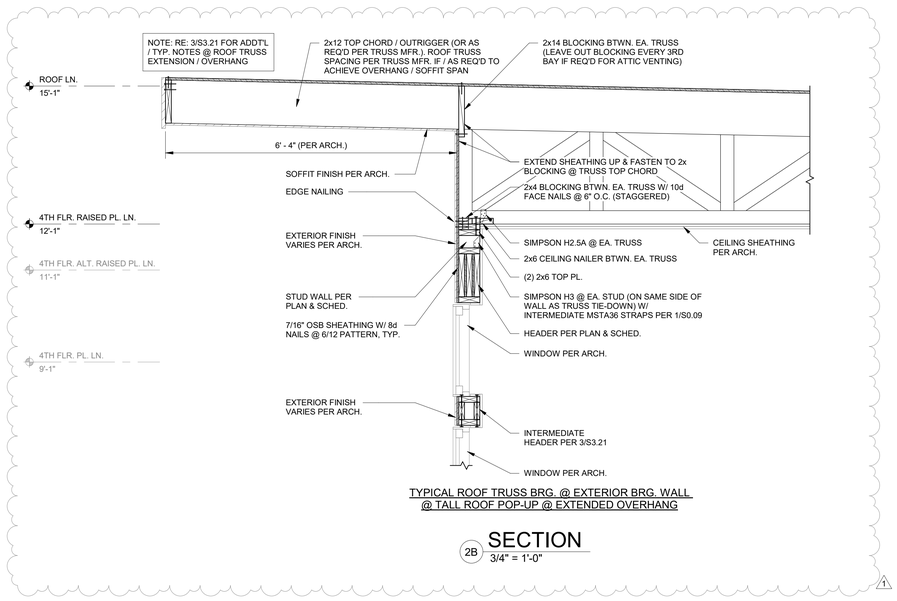
TYPICAL UNIT ROOF TRUSS BRG. @ CORNER
UNIT TALL ROOF POP-UP (PARALLEL)

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



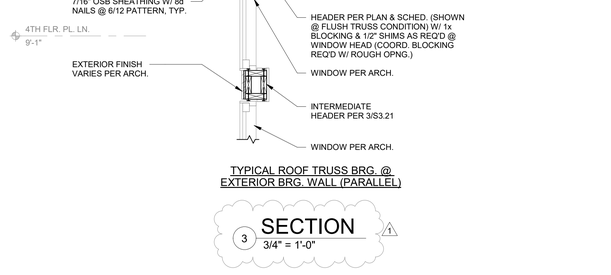
TYPICAL ROOF TRUSS BRG. @ EXTERIOR
BRG. WALL @ TALL ROOF POP-UP

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



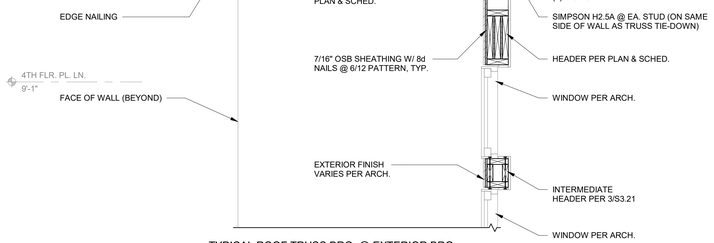
TYPICAL ROOF TRUSS BRG. @ EXTERIOR BRG. WALL
@ TALL ROOF POP-UP @ EXTENDED OVERHANG

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



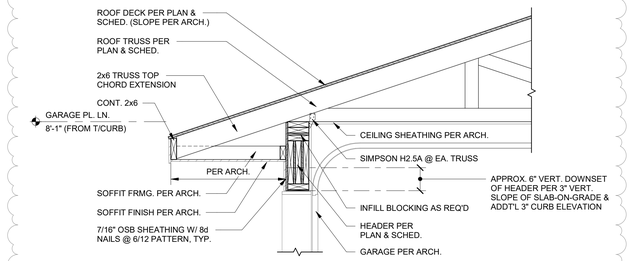
TYPICAL ROOF TRUSS BRG. @
EXTERIOR BRG. WALL (PARALLEL)

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



TYPICAL ROOF TRUSS BRG. @ EXTERIOR BRG.
WALL & BALCONY OPNG. @ TALL ROOF POP-UP

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



TYPICAL ROOF TRUSS BRG. @
DETACHED GARAGES (PERPENDICULAR)

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

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3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI
JOHN A. SCHWAB
NUMBER PE-2005000226
PROFESSIONAL ENGINEER
04.11.23

KRUDWIG
STRUCTURAL ENGINEERS
11200 Corporate Ave., Suite 110 Lenexa, Kansas 66219

A NEW RESIDENTIAL COMMUNITY AT::
TRILOGY
NW WARD RD. | LEE'S SUMMIT, MO

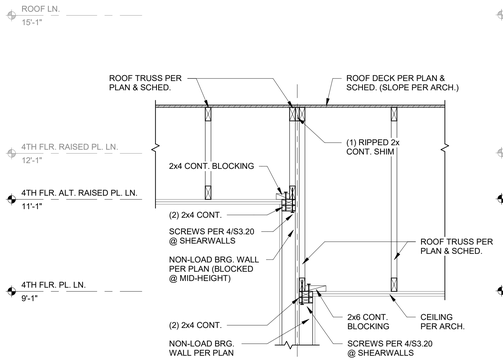
DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

REVISIONS
1 23 0411 CITY COMMENTS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS
SHEET NAME
ROOF FRAMING DETAILS
SHEET NO.
S3.22

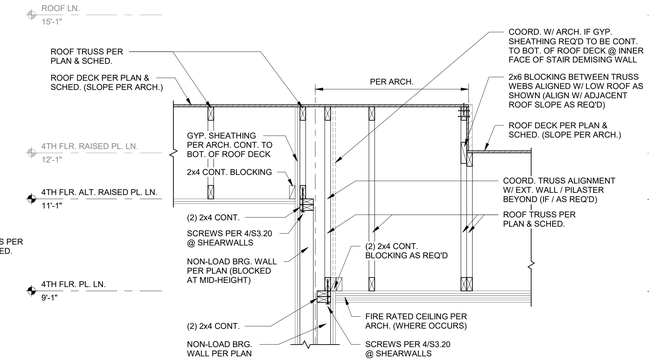
4/11/2023 5:44:35 PM

ARCH E1.30" x 42"



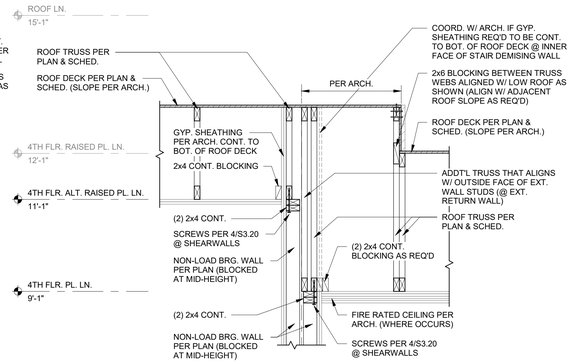
TYPICAL ALT. RAISED PL. @ DOUBLE UNIT DEMISING WALL

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



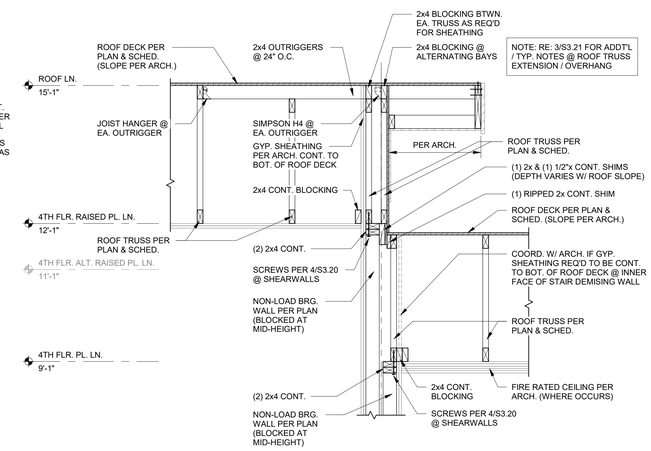
TYPICAL ALT. RAISED PL. @ DOUBLE STAIR WALL (@ ADDT'L ROOF OFFSET / EXTENSION WHERE OVERHANG OCCURS BEYOND)

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



TYPICAL ALT. RAISED PL. @ DOUBLE STAIR WALL (@ ROOF OFFSET / EXTENSION WHERE OVERHANG OCCURS BEYOND)

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



TYPICAL RAISED PL. @ DOUBLE STAIR WALL

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

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PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI
JOHN A. KRUDWIG
NUMBER E-PE-2005000226
PROFESSIONAL ENGINEER
04.11.23

TYPICAL RAISED PL. & ALT. RAISED PL. @ UNIT WALL

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

TYPICAL RAISED PL. & ALT. RAISED PL. @ UNIT WALL W/ ROOF OVERHANG

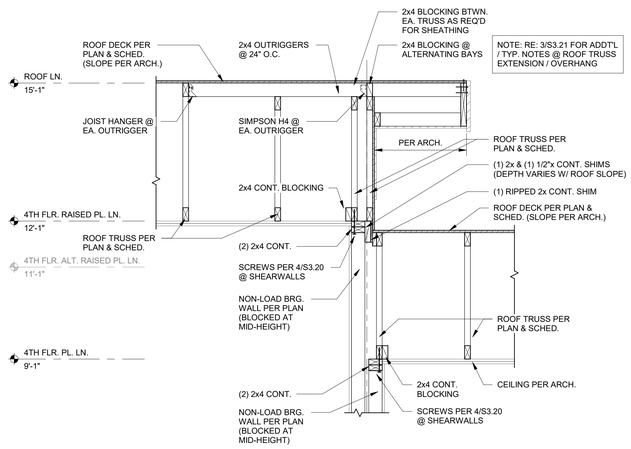
5 SECTION 3/4" = 1'-0" 1

RAISED PL. @ FIRE WALL - SEG F / G

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

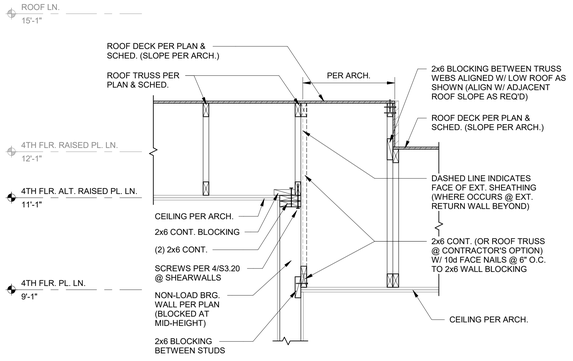
TYPICAL RAISED PL. @ DOUBLE UNIT DEMISING WALL (@ ROOF OFFSET / EXTENSION WHERE OVERHANG OCCURS BEYOND)

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



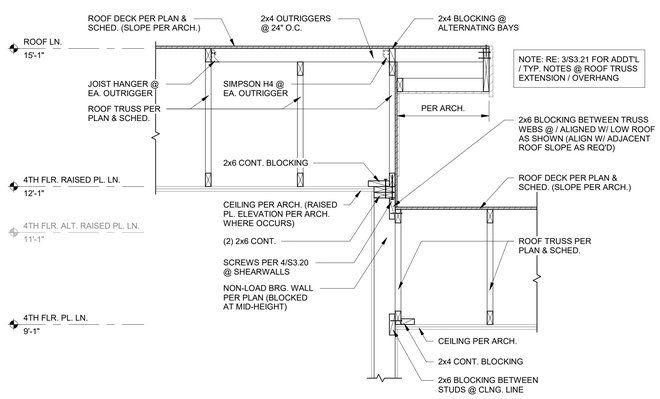
TYPICAL RAISED PL. @ DOUBLE UNIT DEMISING WALL W/ ROOF OVERHANG

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



TYPICAL RAISED PL. @ UNIT WALL W/ ROOF OVERHANG

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



TYPICAL RAISED PL. @ UNIT WALL W/ ROOF OVERHANG

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

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TRILOGY

NW WARD RD. | LEE'S SUMMIT, MO

KRUDWIG STRUCTURAL ENGINEERS
11200 Corporate Ave., Suite 110 Lenexa, Kansas 66219

DRAWING RELEASE LOG
• 03.15.2023 - PERMIT SUBMITTAL

△ REVISIONS
1 23.0411 CITY COMMENTS

JOB NO. PN1129
DATE 03/15/23
DRAWN BY KSE
4.11.2023
CITY COMMENTS

SHEET NAME
ROOF FRAMING DETAILS

SHEET NO.
S3.23

4/11/2023 5:44:43 PM