

GENERAL NOTES - STRUCTURAL

1. General Information:

- A. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.
- B. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. In the case of work in an existing building the contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record for review prior to commencing. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.
- C. All design and construction work for this project shall conform to the requirements of the following governing design codes:
1. International Building Code (IBC 2018) as amended by the City of Lee's Summit, Missouri
 2. Minimum Design Loads for Buildings and Other Structures (ASCE7-16)
 3. Specification for Structural Steel Buildings (AISC 360-16)
 4. Member Design Basis is Allowable Stress Design (ASD)
 5. Connection Design Basis is Allowable Stress Design (ASD)
 6. Structural Welding Code (AWS D14.1-17)
 7. Building Code Requirements for Structural Concrete (ACI 318-14)
 8. Building Code Requirements for Masonry Structures (TMS 402-16)
 9. North American Specification for the Design of Cold-Formed Steel Structural Members (AIS1 5100-16)
 10. National Design Specification (NDS) for Wood Construction with 2018 Supplements (ANSI/AWC NDS-2018)
 11. Special Design Provisions for Wind and Seismic (AWC SDPWS-2015)
- D. These drawings are for this specific project and no other use is authorized.

2. Structural Design Load Criteria:

- A. Dead Loads:
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| Floor, Apartment | = 35 psf |
| Floor, Balcony | = 55 psf |
| Floor, Corridor | = 30 psf |
| Roof | = 25 psf |
| Stair, Wood | = 25 psf |
- B. Live Loads:
- | | |
|-------------------------------------|-----------|
| Floor, Apartment | = 40 psf |
| Floor, Balcony | = 60 psf |
| Floor, Corridor (Serving Apartment) | = 40 psf |
| Floor, Corridor (Serving Public) | = 100 psf |
| Floor, Public (Clubhouse) | = 100 psf |
| Floor, Storage | = 125 psf |
| Roof | = 20 psf |
| Roof, MEP Equipment Zone | = 45 psf |
| Stair | = 100 psf |
- C. Snow = $P_g = 20$ psf, $P_f = 14$ psf, $I_s = 1.0$
 $C_e = 1.0$, $C_t = 1.0$, Drift per ASCE/SEI 7-16
- D. Lateral Loads:
1. Wind $V = 109$ mph, exposure C
Occupancy [Risk] Category I, $w = 1.0$
 $G C_p = +0.18$
Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7 and Table 30.7-2 of ASCE/SEI 7-16. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable.
 2. Seismic = $S_a = 0.101g$, $S_1 = 0.069g$
Occupancy [Risk] Category II, $I_e = 1.0$
Site Classification C, $S_{ds} = 0.088g$, $S_{d1} = 0.069g$
Seismic Design Category B
Equivalent Lateral Force Procedure
Above Podium:
 $A_{1.7} =$ Light framed walls with shear panels of all materials
 $R = 2$, $\Omega = 2.5$, $C_d = 2$, $V = 0.001W$
Podium:
 $A_2 =$ Ordinary Reinforced Concrete Shearwalls
 $R = 4$, $\Omega = 2.5$, $C_d = 2.5$, $V = 0.001W$
- E. This project is designed to resist the most critical effects resulting from the load combinations of section 1605.3 of the 2018 International Building Code.

3. Concrete:

- A. All concrete for foundations (grade beams, footings and piers) shall develop minimum ultimate compressive strength of 3600 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump (except piers which shall have a 6" slump).
- B. All concrete for interior flat work and walls (including wall columns) shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 550 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.5 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- C. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
- D. All concrete for elevated decks and columns shall develop a minimum ultimate compressive design strength of 5000 psi in 28 days, but not less than 400 pounds of cement shall be used per cubic yard of concrete regardless of strength obtained, not over 5.5 gallons of water per 100 pounds of cement and not over 4 inches of slump.
- E. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
- F. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
- G. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with not more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
- H. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
- I. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
- J. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
- K. No aluminum items shall be embedded in any concrete.

4. Reinforcing Steel:

- A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
- B. Clear minimum coverage of concrete over reinforcing steel shall be as follows:
- | | |
|--------------------------------|--------|
| Concrete placed against earth: | 3" |
| Formed concrete against earth: | 2" |
| Slabs: | 1" |
| Beams or Columns: | 1-1/2" |
| Other | 2" |
- C. All coverage shall be nominal bar diameter minimum.
- D. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
- E. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
- F. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.

- F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
- G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
- H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
- I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be dowelled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
- J. Allow 2 tons of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

5. Structural Steel:

- A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel. Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 303-05 Code of Standard Practice for Steel Buildings and Bridges" in the 13th Edition of the AISC Steel Construction Manual.
- B. All welding shall conform to the recommendations of the AWS D1.1.
- C. All exterior steel and connections, and brack relief angles shall be hot-dip galvanized.
- D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, V_n/Ω_m , shown in the maximum total uniform load tables, whichever is greater; and, shall account for eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his seal.
- E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise. Washers of minimum size and thickness for the given anchor diameter in Table 14-2 of the AISC Steel Construction Manual shall be provided at every column anchor bolt. Washers shall have a standard size hole for the anchor bolt. At building perimeter columns and columns at braced frames washers shall be welded all around to the column base plate with 3/16" fillet weld.
- F. Handrails, guards and grab bars shall be designed to meet the requirements of the 2018 IRC. Refer to specifications for more explicit requirements. Submit structural calculations sealed by a licensed engineer in the state of the project location.

6. Foundations:

- A. The soil investigation was prepared by Terracon Consultants, Inc., and the project number is 02225084 and the telephone number is 913-492-7777.
- B. Spider findings, grade beams, and retaining walls are designed to bear on undisturbed soil or geotechnical approved structural fill capable of safely sustaining 2500 psf.
- C. Retaining structures are designed for an active lateral load of 51 pcf equivalent fluid pressure and an at-rest lateral load of 72 pcf based on geotechnical approved clay backfill.
- D. Contractor shall provide for dewatering at excavations from either surface water or seepage.
- E. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled.
- F. All basement walls shall not be backfilled until the first floor slab or wood decking is installed or the wall is temporarily braced by the contractor and the concrete has reached its design strength.
- G. Moisture content in soils beneath building foundations should not be allowed to change after footing excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water content specified for engineered fill. Do not place concrete on frozen ground.

7. Concrete Masonry Units:

- A. Concrete block used in exterior walls or load bearing walls shall meet the requirements of ASTM C90 and have a minimum net compressive strength of 2150 psi and laid up using type N mortar such that f_m equals 1500 psi. Mortar shall be volume proportion based cement mortar. Proportioning shall be completed by block measure. Any block in contact with earth shall be normal weight units, laid using type "S" mortar and grouted solid.
- B. The contractor shall provide adequate temporary bracing for all masonry walls during construction.
- C. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder or truss) per architectural drawings and specifications (16" maximum vertical spacing).
- D. Cavity wall construction shall be reinforced as designed for specific concrete block used. The horizontal joint reinforcing shall be of the ladder or truss style per specification and continuous between brick and block, as prescribed by the architectural drawings.
- E. Concrete block shall be reinforced as follows in 8" walls:
1. Vertical reinforcing shall be as indicated on S0.05, on center, at each corner, at each door and window jamb, each side of control joints and in the end void of each length of wall. Lap splices for masonry vertical reinforcing shall be on brick and be 48 bar diameters or 24" minimum.
 2. Horizontal reinforcing:
 - a. Horizontal joint reinforcing as noted above.
 - b. Continuous horizontal bars shall be included per section or detail in bond beam or optional running bond beam where noted. Where bond beams are continuous at corners of walls, supply corner bars matching size of horizontal bars (minimum 2'-0" or 40 bar diameters in each direction).
- F. Grout, where noted above, shall have a minimum design ultimate compressive strength of 2500 psi at 28 day test and 3/8" maximum aggregate size.
- G. Unless otherwise covered on architectural plans or specifications, vertical control joints in masonry construction shall be 3/8" wide, full height of wall. Joints shall be spaced at a maximum of 24'-0" on center and coordinated with the architect. All horizontal joint reinforcing shall be discontinuous at control joints in masonry. All All bond beam horizontal reinforcing shall be continuous through control joints.

8. 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 Evaluator 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 308.2 and ICC-ES AC108. All anchors shall be installed per the anchor manufacturer's written instructions.
- C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
- D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
- E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC508. All anchors shall be installed per the anchor manufacturer's written instructions.
- F. Anchors used in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

9. Timber and Wood Framing:

- A. Quality and construction of wood framing members and their fasteners for load supporting purposes not otherwise indicated on the drawings shall be in accordance with the 2018 International Building Code.
- B. All studs and top and bottom plates shall be Douglas Fir No. 2 grade or Southern yellow pine No. 2 grade, visually grade unless noted otherwise, with an allowable fiber stress in bending of 900 psi minimum and an elastic modulus of 1,400,000 psi unless noted otherwise. All joist, truss members and headers to be No. 2 grade DF (unless noted otherwise) All lumber for exterior decks and balconies shall be preservative-treated Southern yellow pine No. 2 grade, visually grade unless noted otherwise.
- C. Bridging of stud bearing walls and shear walls shall be solid, matching sheathing joints.
- D. Joist blocking and bridging shall be solid wood or cross bridging of either wood or metal straps. Spacing, in any case, shall not exceed 8'-0".
- E. Wood members and sheathing shall be fastened with number and size of fasteners not less than that set forth in Table 2304.9.1 of the 2018 International Building Code. For sheathing shall be APA rated tongue and groove Stud-Floor, exposure 1, glued and nailed with 10d nails or #10 screws at 6" on center to supports at edges and 12" on center field. Roof diaphragms shall be glue screwed with #10 screws at 6" on center and screwed to intermediate framing and/or blocking members with #10 screws at 12" on center unless noted on the drawings.
- F. Sill plates shall be bolted to concrete slabs with 1/2" diameter bolts at 32" on center (UNO, Re: shearwall sched). Provide plate washers at sill plate anchors for shearwalls per shearwall sched. Plates in direct contact with concrete or masonry shall be treated lumber.
- G. All hangers, ties and connections shown are based on Simpson Strong Tie as the basis of design, provide Simpson Strong Tie or an approved equal. Joist hangers shall be equal to "LUS" for wood application and "LB" for steel weld-on application. Roof truss ties shall be equal to "H2.5A" and tie the roof truss to the top plate (provide 2" H2.5A". Diagonally across from each other when uplift load shown in truss shop submittal exceeds 545 lbs). Roof girder ties shall be equal to a "LGT2", "LGT3" or "LGT4" tie (dependent on number of plies) and tie the truss girder to the top track. Provide "H2.5A" at the top of each stud to top plate when the top track has roof truss attached.
- H. Service condition - dry with moisture content at or below 19% in service.
- I. Laminated strand lumber (LSL) shall have an allowable flexural stress (Fb) of 1,700 psi (reduced by size factor) and an elastic modulus (E) of 1,300,000 psi.
- J. Laminated veneer lumber (LVL) shall have an allowable flexural stress (Fb) of 2,600 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi.
- K. Parallel Strand Lumber (PSL) shall have an allowable flexural stress (Fb) of 2,300 psi (reduced by size factor) and an elastic modulus (E) of 2,000,000 psi. (E) = 2,200,000 psi for members > 18")
- L. 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 (WTCOA). Truss design shall conform to specified codes, allowable stress increases, deflection limitations and other applicable criteria of the governing code.
- M. Shop drawings showing complete erection and fabrication details and calculations (including connections) shall be submitted to the project architect / engineer for review prior to fabrication and/or erection. Calculations 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.
- N. 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.
- O. 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 (WTCOA) and shall be 20 gauge minimum. Connector plates shall meet or exceed ASTM A653, grade 33, with ASTM A924 galvanized coating designation G60.
- P. 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.
- Q. Roof Truss Design Criteria:
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|------------------------|--|
| Top Chord Dead Load | = 15 psf. |
| Top Chord Live Load | = 20 psf. (Plus Rooftop Equipment) |
| Top Chord Total Load | = 20 psf or 14 psf plus Drift |
| Bottom Chord Dead Load | = 10 psf |
| Bottom Chord Live Load | = 0 psf |
| Live Load Deflection | = L/360 |
| Total Load Deflection | = L/300 (1" MAX) |
| Corridor Trusses Only | = 250 #1 Point Load at any location on the top and bottom chord (no concurrent with each other or typical live load - concurrent with MEP equipment) |

- R. Floor Truss Design Criteria:
- | | |
|------------------------|-----------------------|
| Top Chord Dead Load | = 30 psf |
| Top Chord Live Load | = Per General Note 5B |
| Bottom Chord Dead Load | = 10 psf |
| Live Load Deflection | = L/480 (1/2" MAX) |
| Total Load Deflection | = L/360 (3/4" MAX) |
- S. Roof trusses shall be designed per IBC 2018 for net uplift resulting from wind loading based on component and cladding loading. Reference details 1, 2, 2A, 2B, 3, 3A, 3B, 4 and 5 on S0.20/for net uplift holdown detail and requirements.
- T. Refer to sheet S0.05 for wood shrinkage recommendations.
- U. Shop drawings shall be provided by the contractor as required to keep the building and studs plumb.
- V. Structural members shall not be cut for pipes, etc., unless specifically detailed. Notching and boring of studs and top of plates shall conform to the provisions of section 2308.9.10 and 2308.9.11 of the IBC. Where top plates or sole plates are cut for pipes, angel tie with minimum 0.058 inches thick and 1 1/2" inches wide shall be fastened to each plate across and to each side of the opening with not less than (6) 16d nails, in accordance section 2308.9.8 of the IBC.
- W. All fasteners for wood to wood connections and wood connectors shall be as indicated in structural drawings or manufacturer literature to achieve full capacity of connector. Submittal must show that alternative will not reduce the capacity of the connection.

10. Shop Drawing Review:

- A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
- B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
1. Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
 2. Review and approve each submission.
 3. Stamp each submission as approved.
- C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.

LEGEND:

- SPAN DIRECTION OF DECK - TYPE PER SCHED ON S0.01
- 1 HSS 6x6x1/4 COLUMN SIZE
- BASE PLATE MARK - SEE SCHEDULE ON SHEET S0.04
- A# BEAM OR HEADER PER SCHED ON S0.02
- A#-R UPSET BEAM OR HEADER PER SCHED ON S0.02
- # BEARING WALL TYPE PER SCHED ON S0.02
- # SHEARWALL HOLDDOWN TYPE PER SCHED ON S0.03
- # NUMBER OF RESPECTIVE JACKING STUDS IN A STUD PACK. REFER TO DETAIL 6 ON S1.11
- # NUMBER OF WALL STUDS IN STUD PACK EQUAL TO KING & JAMB STUDS FROM HEADER ABOVE - TYP AT ALL LOCATIONS WITHIN A PILASTER
- SW# SHEARWALL TYPE PER SCHED ON S0.03

11. Structural Special Inspection:

- A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
- B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
- C. All discrepancies shall be brought to the immediate attention of the contractor for correction; then, if uncorrected, to the proper design authority, building official and structural engineer.
- D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.
- E. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
1. Shop Fabrication - structural steel per Section 1704.2.5 unless AISC certified shop
 2. Shop Fabrication - pre-engineered wood trusses per Section 1704.2.5 unless TPI certified shop
 3. Steel Construction per Section 1705.2 and the quality assurance requirements of AISI Chapter 1 (as referenced in AISI 360)
 4. 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. Formwork Shape, Location and Dimensions
 5. Masonry Construction per Section 1705.4 and the quality assurance requirements of TMS 402/ACI308/ASCE5 and TMS602/AS30.1/ASCE6 Level B
 6. 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
 7. Wood Gravity Framing and Placement (adjust frequency of random sampling where indicated as required)
 - a. Heavy timber/SCG/ulam beams and supports (periodic)
 - b. Headers and jams (random sampling)
 - c. Bearing walls (random sampling)
 - d. Connector/hardware installation (random sampling)
 - e. Floor and roof trusses (random sampling)

12. Structural Observation:

- A. The general contractor shall notify the engineer of record and allow for safe access to the appropriate items requiring structural observation.
- B. The engineer of record shall be notified such that the following items can be observed:
- a. Reinforcement at Elevated Concrete Floors/Roofs
 - Reinforcement is placed and 48 hours (min) before a pour
 - b. Structural Steel Framing
 - Erection is completed, prior to covering steel
 - Wood Framed Floors
 - Floor/Roof is erected, prior to MEP system routing
 - MEP routing is completed and all hardware installed - prior to insulating or sheathing.
 - C. At the discretion 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 discretion of the engineer of record and are not required per the IBC for this project.

13. Copyright and Disclaimer:

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

STRUCTURAL DECK & SLAB SCHEDULE	
MARK	DESCRIPTION
FD-1	1/2" GYPCRETE ATOP 23/32" T&G APA-RATED STURDI-FLOOR, EXP 1 SHEATHING.
CD-1	SHATHING SHALL BE GLUED AND NAILED W/ 8d RING SHANK NAILS OR #10 SCREWS @ 6"o.c. @ EDGES & 12"o.c. AT FIELD.
CD-2	3" CONCRETE SLAB (4000psi) REINFORCE WITH 6x6 - W2.9kW2.9 WWF ATOP WATERPROOFING MEMBRANE (RE: ARCH.) ATOP 15/32" EXT. GRADE PLYWOOD SHEATHING SLOPE TO DRAIN PER ARCH. RE: NOTE 6 BELOW.
SOG-1	6" (MIN) CONCRETE SLAB (4,500psi, AIR-ENTRAINED) REINFORCE WITH #4 @ 12"o.c LONGITUDINAL AT #4 12"o.c TRANSVERSE BOTTOM. T/S LAB EL. = PER PLAN.
SOG-2	4" CONC. SLAB (4000psi) REINFORCE WITH 6x6-W2.9kW2.9 WWF ATOP 15 mil VAPOR BARRIER ATOP 6" OF 3/4" CLEAN GRANULAR LEVELING COURSE, ATOP SUITABLE SUBGRADE MATERIAL PER GEOTECH SPECIFICATIONS. T/S LAB EL. = PER PLAN, SLOPE TO DRAIN.
SOG-3	4" CONC. SLAB (4500psi, AIR ENTRAINED) REINFORCE WITH 6x6-W2.9kW2.9 WWF ATOP 6" OF 3/4" CLEAN GRANULAR LEVELING COURSE, ATOP SUITABLE SUBGRADE MATERIAL PER GEOTECH SPECIFICATIONS. T/S LAB EL. = PER PLAN.
RD-1	19/32" APA-RATED, EXP 1 SHEATHING ATTACHED WITH #10 SCREWS @ 6"o.c. AT EDGES & 12"o.c. AT FIELD. (ATTACH WITH #8 SCREWS AT SAME SPACING AT FLAT ROOF AREAS)

- NOTES:
1. FD = FLOOR DECK TYPE
 2. CD = CONCRETE DECK TYP.
 3. SOG = SLAB-ON-GRADE TYP.
 4. RD = ROOF DECK TYP.
 5. PROVIDE 1" DEEP TOOLED CONTROL JOINT (TRANSVERSE DIRECTION) AT MID-SPAN OF SINGLE BAY BALCONY OR AT THIRD POINTS OF DOUBLE BAY BALCONY (6'-0" MAX SPACING). FILL JOINT WITH SEALANT.

CONCRETE FOOTING SCHEDULE

BRG PRESSURE (PSF):		CONCRETE (PSI):	REBAR (KSI):
2,500		3500	60
TYPE	FOOTING SIZE (FT.) THICKNESS (IN.)	QTY/SIZE OF BARS	
3	3'-0" x 3'-0" x 18"	#4 @ 6"o.c EA WAY BOTTOM	
3A	3'-0" x 3'-0" x 32"	#4 @ 6"o.c EA WAY TOP & BOTTOM	
3/6	3'-0" x 6'-0" x 32"	#4 @ 6"o.c EA WAY TOP & BOTTOM	
4	4'-0" x 4'-0" x 18"	#4 @ 6"o.c EA WAY BOTTOM	
4A	4'-0" x 4'-0" x 32"	#4 @ 6"o.c EA WAY TOP & BOTTOM	
4x2	4'-0" x 2'-0" x 12"	#4 @ 6"o.c EA WAY BOTTOM	
5	5'-0" x 5'-0" x 18"	#4 @ 6"o.c EA WAY BOTTOM	
6	6'-0" x 6'-0" x 18"	#4 @ 6"o.c EA WAY BOTTOM	

NOTE:

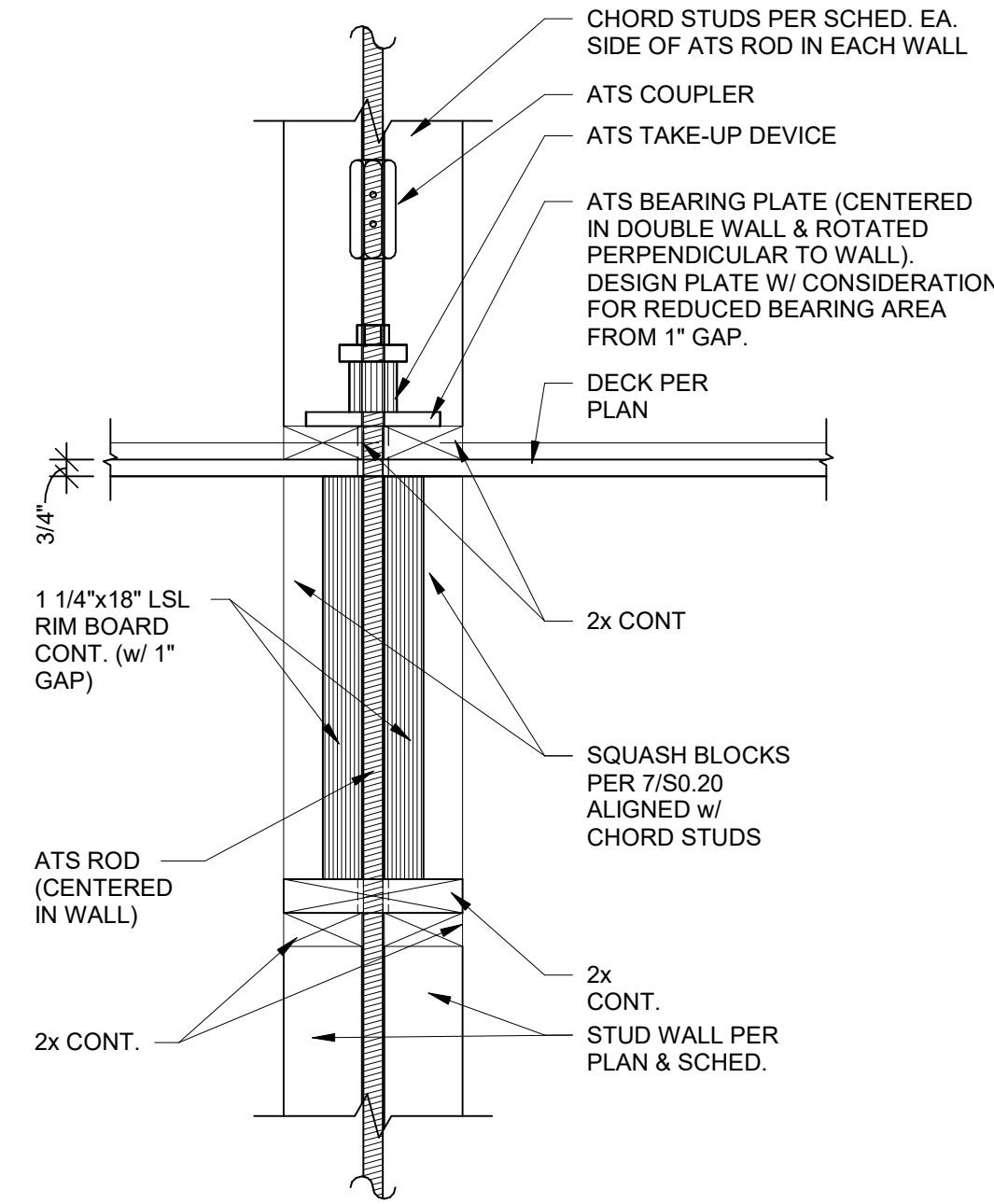
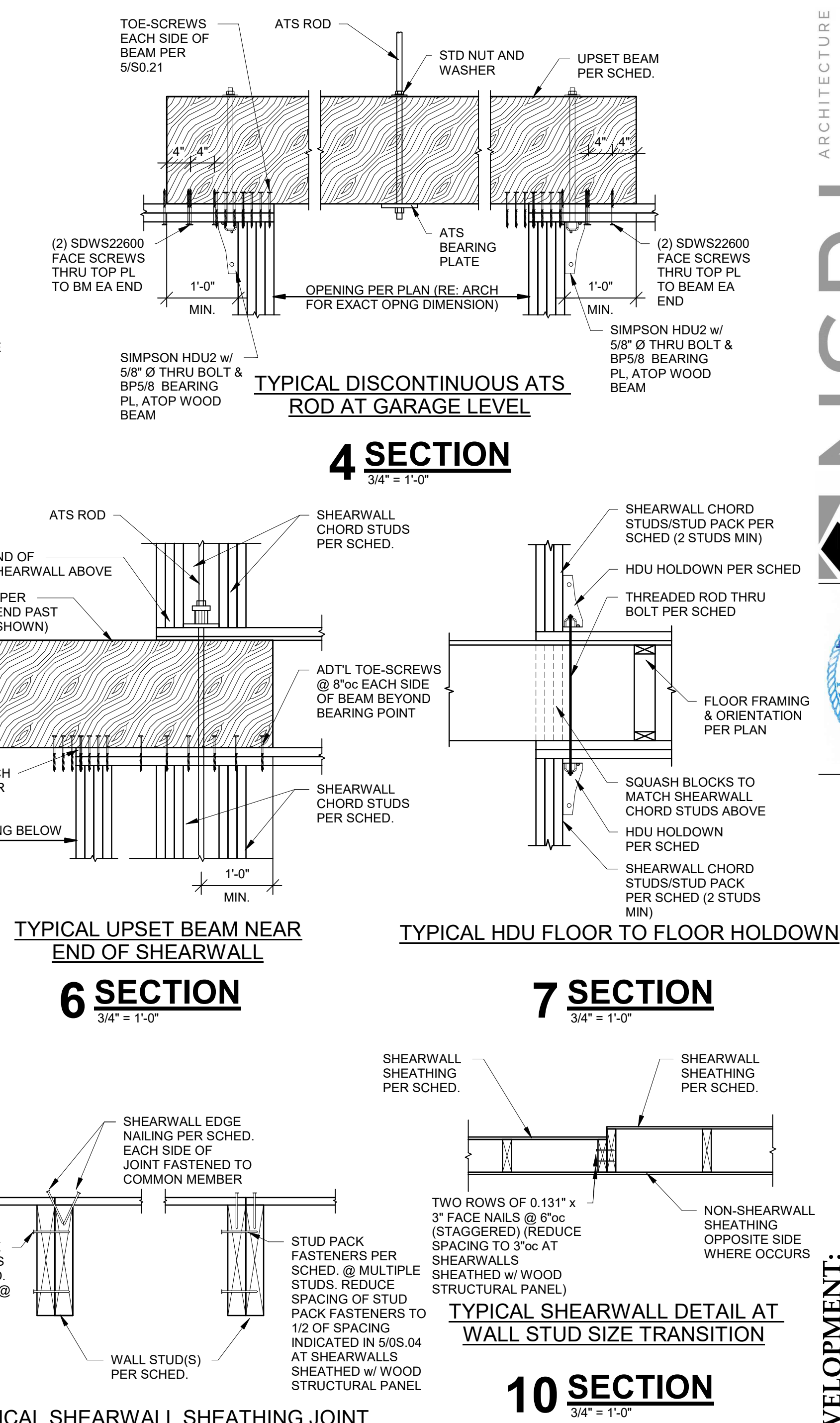
1. EXTERIOR FOOTINGS OR FOOTING AT GRADE BEAM SHALL MATCH GRADE BEAM DEPTH AND BE PLACED WITH GRADE BEAM. PROVIDE SPECIFIED REBAR TOP AND BOTTOM WITH A STANDEES TO SUPPORT MATS.
2. OUTER FOOTINGS ON COLUMNS SHALL BE CENTER LINES PER PLAN, U.N.O.
3. SPREAD FOOTINGS LOCATED AT INTERIOR SHALL BE POURED MONOLITHIC W/ THE SLAB AS A THICKENED PORTION OF SLAB UNLESS THEY HAVE A STEEL COLUMN BEARING ATOP.
4. SPREAD FOOTINGS LOCATED AT INTERIOR WITH STEEL COLUMNS BEARING ATOP SHALL BE LOCATED AT 99'-0".

Sheet Number	Sheet Name	Current Revision	Current Revision Date
S0.01	GENERAL NOTES	1	4/05/2023
S0.02	TYPICAL WOOD DETAILS & SCHEDULES	1	4/05/2023
S0.03	WOOD SHEARWALL SCHEDULES & DETAILS		
S0.04	STEEL SCHEDULES		
S0.05	WOOD SHRINKAGE & MOVEMENT		
S0.10	CONCRETE SCHEDULES		
S0.20	TYPICAL WOOD DETAILS		
S0.21	TYPICAL WOOD DETAILS		
S0.22	TYPICAL WOOD DETAILS		
S1.00	STAIR 1 FRAMING PLANS	1	4/05/2023
S1.01	STAIR 2 FRAMING PLANS	1	4/05/2023
S1.10	WOOD STAIR FRAMING SECTIONS		
S1.11	ELEVATOR FRAMING SECTIONS	1	4/05/2023
S1.20	BALCONY FRAMING PLANS		
S1.21	BALCONY FRAMING PLANS	1	4/05/2023
S1.30	WOOD BALCONY FRAMING SECTIONS		
S2.00	LOWER LEVEL FOUNDATION PLAN	1	4/05/2023
S2.01	1ST FLOOR FRAMING & FOUNDATION PLAN		
S2.02	2ND FLOOR FRAMING PLAN	1	4/05/2023
S2.03	3RD FLOOR FRAMING PLAN	1	4/05/2023
S2.04	4TH FLOOR FRAMING PLAN		
S2.05	ROOF FRAMING PLAN	1	4/05/2023
S2.06	SHEARWALL PLAN		
S2.10	CLUBHOUSE FOUNDATION PLAN	1	4/05/2023
S2.11	CLUBHOUSE 1ST FLOOR FRAMING PLAN	1	4/05/2023
S2.12	CLUBHOUSE ROOF FRAMING PLAN	1	4/05/2023
S3.00	FOUNDATION SECTIONS		
S3.01	FOUNDATION SECTIONS	1	4/05/2023
S3.02	FOUNDATION SECTIONS	1	4/05/2023
S3.03	FOUNDATION SECTIONS	1	4

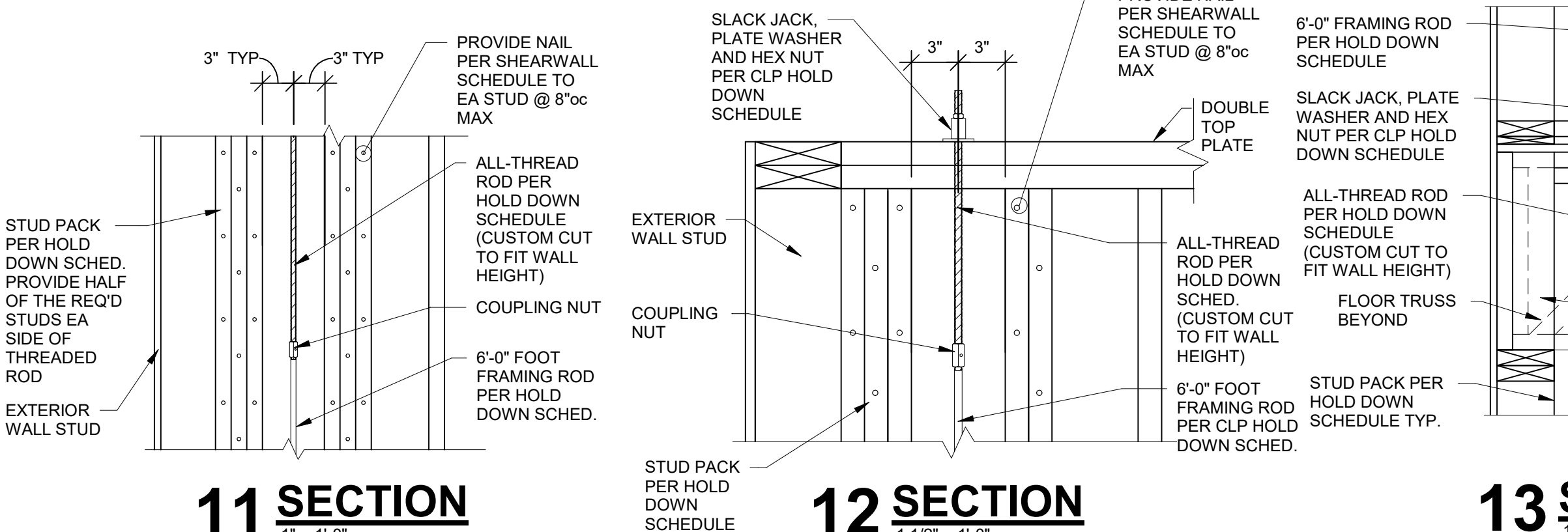
12 SECTION

NOTES:

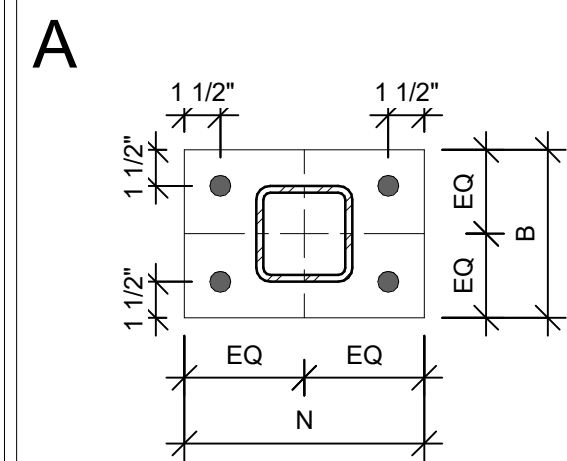
1. HOLD-DOWNS TYPES ARE BASED UPON CONTINUOUS THREADED RODS UTILIZING THE SIMPSON ATS SYSTEM.
2. 5/8" RODS SHALL HAVE A MINIMUM TENSILE CAPACITY OF 6,675 LBS.
3. 3/4" RODS SHALL HAVE A MINIMUM TENSILE CAPACITY OF 9,610 LBS.
4. 1" RODS SHALL HAVE A MINIMUM TENSILE CAPACITY OF 17,080 LBS.
5. REFER TO SECTION DETAILS ON 50.03 FOR TYPICAL HOLDDOWN DETAILS.
6. ALL HOLD-DOWNS TO BE HALF OF THE LISTED ROD SIZE. THREADED ROD TO MATCH STUD SIZE & GRADE NOTED IN WALL SCHEDULE. HOLDDOWN STUDS ARE IN ADDITION TO BEARING WALL OR HEADER JAMB STUDS - PROVIDE ADDITIONAL STUDS AS REQ'D TO MEET QUANTITY NOTED IN SCHED. OFFSET STUD PACK 3" TYPICAL FROM CENTERLINE OF THREADED ROD. PROVIDE SQUASH BLOCKS WITHING FLOOR PLATE DEPTH (TRUSS DEPTH) ALIGNED WITH STUD PACKS. QUANTITY OF SQUASH BLOCK TO MATCH QUANTITY OF STUDS BELOW.
7. PROVIDE 1" SCHED. 40 STUDS TO STEEL WIDE-FLANGE BEAM POURING CONCRETE.
8. PROVIDE PLATE WASHER AND NUT CAPABLE OF DEVELOPING CAPACITY OF ROD AT EACH FLOOR.
9. PROVIDE TAKE-UP DEVISE AT EACH FLOOR CAPABLE OF ACCOMMODATING THE SHRINKAGE INDICATED IN DETL. 150.21
10. PROVIDE COUPLING TAKE-UP DEVISE AS REQUIRED.
11. PROVIDE TAKE-UP DEVISE AT FOLLOWING LOCATIONS OFF ALL HOLD-DOWNS AND HARDWARE FOR REVIEW BY THE EOR PRIOR TO INSTALLATION.
12. THE HOLE THRU THE TOP AND SILL PLATES SHALL BE EQUAL TO THE ROD DIAMETER PLUS 1/4".



14 SECTION PERMIT SET



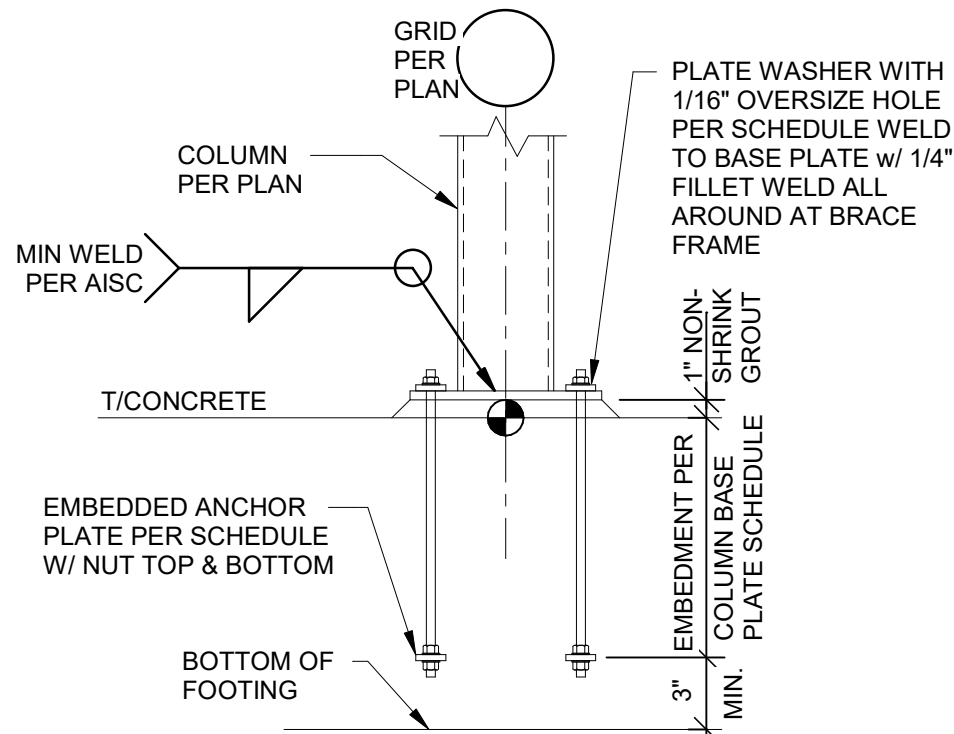
BASE PLATE SHAPE (NOT TO SCALE)



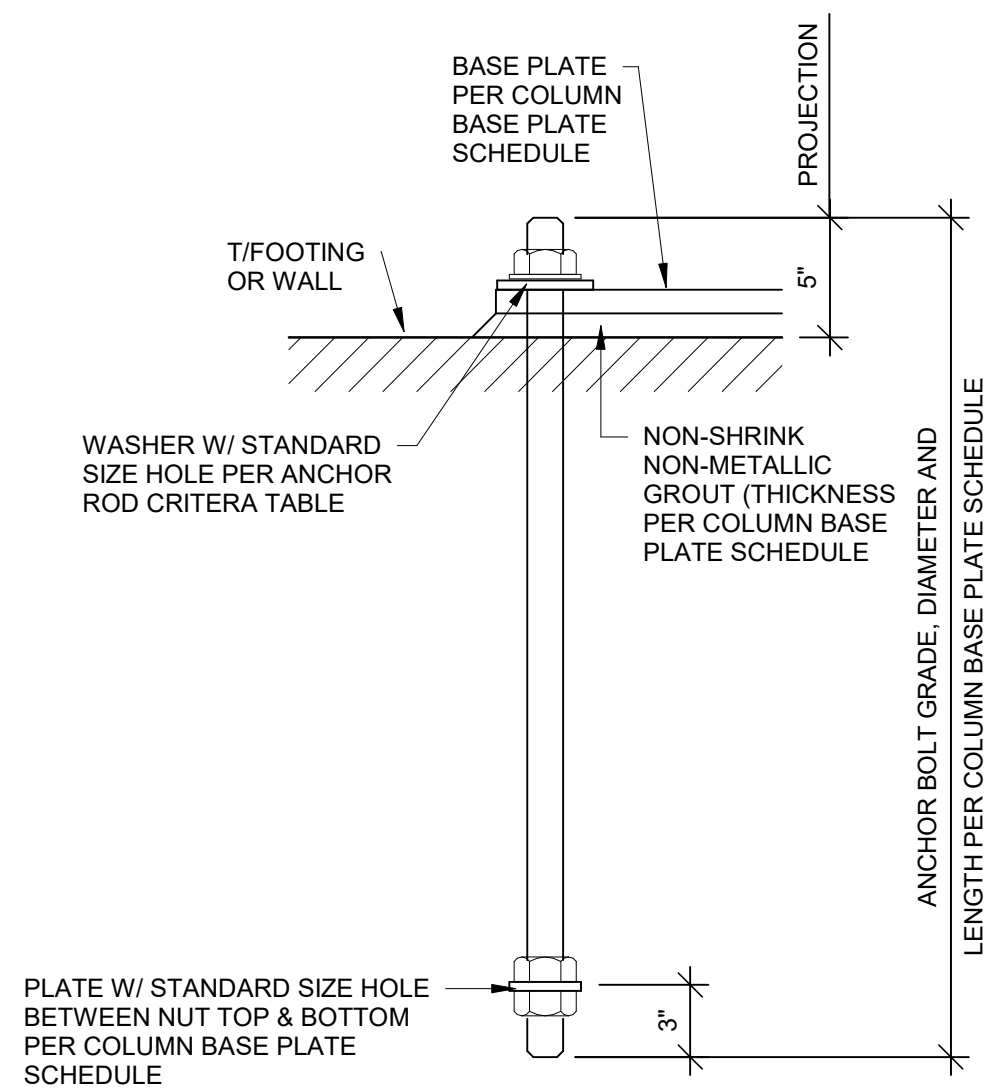
COLUMN BASE PLATE SCHEDULE					
TYPE	COLUMN	BASE PLATE (xByxN)	SHAPE	ANCHOR BOLTS	EMBEDMENT
1	PER PLAN	3/4"x11"x11"	A	4- 3/4" DIA.	12"
2	PER PLAN	3/4"x12"x12"	A	4- 3/4" DIA.	12"
NOTES:					
1. SEE PLAN FOR ORIENTATION OF COLUMNS.					
2. PROVIDE PLATE WASHER & EMBEDDED PLATE PER SCHEDULE @ ALL ANCHOR BOLTS.					
3. U.N.O. ALL THREADED ROD A.B's SHALL BE F1554 (36ksi) MATERIAL.					

COLUMN BASE PLATE ANCHOR-ROD CRITERIA

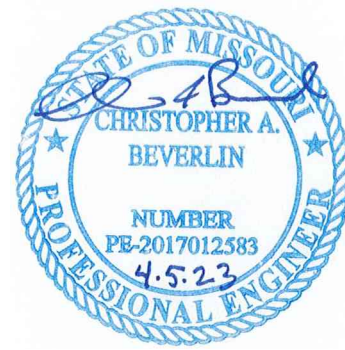
ANCHOR-ROD DIAMETER.	MAX. HOLE DIAMETER.	MIN. WASHER SIZE.	MIN. WASHER THICKNESS	EMBEDDED ANCHOR PLATE SIZE
3/4"	1 5/16"	2"	1/4"	1/2"x2 1/2"x2 1/2"



ELEVATION



1 TYPICAL ANCHOR BOLT
1 1/2" = 1'-0"



A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO



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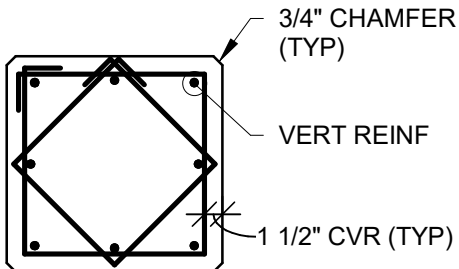
3 EXTERIOR NON-LOAD-BEARING

REBAR DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE														
CONCRETE STRENGTH = 5000 psi					CONCRETE STRENGTH = 4000 psi					CONCRETE STRENGTH = 3500 psi				
CASE BAR SIZE	DEVELOPMENT LENGTH OR CLASS A LAP		CLASS B LAP		CASE BAR SIZE	DEVELOPMENT LENGTH OR CLASS A LAP		CLASS B LAP		CASE BAR SIZE	DEVELOPMENT LENGTH OR CLASS A LAP		CLASS B LAP	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	24	24	24	24	#3	24	24	24	24	#3	24	24	26	24
#4	24	24	29	24	#4	25	24	33	25	#4	27	24	35	27
#5	28	24	36	28	#5	31	24	41	31	#5	33	26	43	33
#6	34	26	43	34	#6	37	29	49	37	#6	40	31	52	40
#7	49	38	63	49	#7	54	42	71	54	#7	58	45	75	58
#8	56	43	72	56	#8	62	48	81	62	#8	66	51	86	66
#9	63	48	81	63	#9	70	54	91	70	#9	75	58	97	75
#10	71	54	92	70	#10	79	61	102	79	#10	84	65	109	84
#11	78	60	102	78	#11	87	67	113	87	#11	93	72	121	93

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

CONCRETE COLUMN SCHEDULE	
COLUMN SIZE	REINFORCEMENT
18x18	(8) #8 VERTICAL (2) #3 TIES @ 12"oc

NOTES:
1) PROVIDE (4) SETS OF TIES AT 3'oc TOP & BOTTOM OF EACH COLUMN
2) ALL COLUMNS TO CENTER ON GRIDLINE AND PIER/FOUNDATION U.N.O.



18"x18"
COLUMN

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

SLAB NOTES

- SEE GENERAL NOTES (STRUCTURAL) ON SHEET S0.01.
- PODIUM SLAB IS 12" THICK AND REINFORCED WITH A CONTINUOUS (12" LAP AT COLUMN CENTERLINE OF COLUMN STRIPS AND 24" LAP AT COLUMN CENTERLINE OF MID-STRIPS) BOTTOM MAT OF #5 @ 12" EACH WAY. THE BOTTOM MAT EXTENDING NORTH-SOUTH (PLAN EAST-WEST) SHALL BE SUPPORTED ON 1" SLAB BOLSTERS @ 4'-0"oc MAX. TOP OF CONCRETE ELEVATION PER PLAN (STEP TOP OF SLAB AND SLOPE AS INDICATED AT EXTERIOR LOCATIONS.) EXTRA REINFORCING BARS PLACING SEQUENCE:

14

A5

19'-9"

TOTAL LENGTH OF BAR IN FEET AND INCHES

SIZE OF BAR AND LOCATION IN SLAB AS NOTED BELOW

TOTAL NUMBER OF EXTRA BARS IN STRIP DEFINED ON PLAN

A.

#5 EXTRA BOTTOM BARS WITH 1" CLEAR COVER BOTTOM. (PLACE WITH 1" CLEAR COVER BOTTOM MAT BARS.)

B.

#5 EXTRA BOTTOM BARS WITH 1 5/8" CLEAR COVER BOTTOM. (PLACE WITH 1 5/8" CLEAR COVER BOTTOM MAT BARS.) PLACE ON TOP OF PERPENDICULAR (1" CLEAR COVER) BOTTOM MAT AND 7" BARS.

C.

#5 TOP BARS WITH 1 5/8" CLEAR COVER WHERE TWO LAYERS OF BARS OCCUR AND 1" CLEAR COVER WHERE ONE LAYER OF BARS OCCUR ON IHC @4'-0" o.c. AND #5 SUPPORT BARS @4'-0"o.c.

D.

#5 TOP BARS WITH 1" CLEAR COVER TOP. PLACE ON TOP OF "C" BARS WHERE THEY OCCUR OR OTHERWISE PLACE ON IHC AT 4'-0"o.c. AND #5 SUPPORT BARS AT 4'-0" o.c.

E.

#5 TOP BARS WITH 1" CLEAR COVER TOP. PLACE ON IHC AT 4'-0"o.c. AND #5 SUPPORT BARS AT 4'-0"o.c.
- REINFORCING SHALL BE SPAYED AROUND OPENINGS LESS THAN 18" WIDE. REINFORCING SHALL BE CUT AT OPENINGS GREATER THAN 18" WIDE WITH EQUAL CONTINUOUS BARS ADDED ONE-HALF EACH SIDE OF OPENING. PROVIDE REINFORCING PER GENERAL NOTE 4F AT ALL OPENINGS LARGER THAN 8".
- STRIP LINES ARE LOCATED AT 1/4 POINTS BETWEEN COLUMN CENTERLINES UNLESS NOTED ON PLAN OTHERWISE.
- SEE DETAIL 2/S3.10 FOR PLACING PATTERN FOR TOP REINFORCING BARS OVER INTERIOR COLUMN AS NOTED.
- TOP BARS SHOWN STAGGERED ON PLAN SHALL BE STAGGERED WHEN PLACED. THE END OF EVERY OTHER BAR TO BE PLACED AT RELATIVE STRIP LINE. UNLESS NOTED ON PLAN.
- BOTTOM BARS ARE SHOWN THUS

 TOP BARS ARE SHOWN THUS

=====

 TOP BARS SHOWN ON PLAN THUS

=====

 SHALL HAVE A STANDARD ACI 90 DEG. HOOK.
- UNLESS SHOWN ON "S" SERIES DRAWINGS, NO HOLES LARGER THAN TEN INCH DIAMETER SHALL BE PLACED THROUGH SLAB. NOT MORE THAN ONE, SIX TO EIGHT INCH DIAMETER HOLES, OR TWO FOUR INCH DIAMETER HOLES, OR THREE TWO INCH DIAMETER OR SMALLER HOLES SHALL BE PLACE WITHIN 20"OF THE FACE OF THE COLUMNS. CAMBER ALL SPANS BETWEEN 16'-0" AND 24'-0" (CENTERLINE TO CENTERLINE OF SUPPORTS) FOR L/600 MINIMUM AT MIDSPAN (WITH L = SPAN IN INCHES) (I.E., 3/8 AT MIDSPAN FOR 18'-0" SPAN. CAMBER ALL SPANS LONGER THAN 24'-0" FOR L/480 (I.E., 3/4" AT MIDSPAN FOR 30'-0" SPAN.) DO NOT CAMBER SLAB IN COURTYARD AREA WHEN DRAIN IS LOCATED AT CENTER OF SPAN.
- AT TERMINATION OF COLUMN STRIP AT COLUMN, WALL, BEAM, PROVIDE 90 DEGREE STANDARD ACI HOOKED END AT (4) BOTTOM BARS NEAREST COLUMN CENTERLINE PER 6/S3.10

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As Noted on Plans Review

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

PROFESSIONAL ENGINEER

NUMBER
PE-2017012385
4.5.23

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

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CHRISTOPHER A. BEVERLIN
NUMBER
PB-2017012385
4-5-23
PROFESSIONAL ENGINEER

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

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

LSL RIM BOARD

SHEATHING JOINT SHALL OCCUR OVER RIM BOARD W/ 4"oc NAIL SPACING @ EA. SIDE OF JOINT TO RIM BOARD, WHERE JOINT DOES NOT OCCUR OVER BAND BOARD, PROVIDE COIL STRAP PER 2/S0.20

TYPICAL EXTERIOR SHEATHING JOINT

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

DOOR/WINDOW ROUGH OPENING

FLOOR TRUSS (RE. PLAN FOR ORIENTATION)

DOOR/WINDOW JAMB STUDS OR WALL STUDS PER SCHED.

2x CONT. SILL PLATE

SQUASH BLOCKS (BEYOND LSL RIM BD.) TO MATCH JAMB ABOVE

DBL. 2x CONT. TOP PLATE

SIMPSON CS16, 48" Lg (MSTA49 @ CONTRACTOR'S OPTION) W/ (10) 10d NAILS EA. END (PROVIDE ADD'L NAILS @ RIM AS REQ'D TO KEEP STRAP STRAIGHT) (CTR ON 18" FLOOR FRAMING SPACE) PROVIDE AT EA. CORNER, AT RE-ENTRANT CORNERS, AT TOP FLOOR EXTERIOR DOOR/WINDOW JAMBS, & AT 14'-0"oc MAX (NOT REQUIRED WHERE SHEARWALL HOLDOWNS OCCUR OR INTERIOR SHEARWALL HOLDOWNS ARE TIED INTO EXTERIOR WALL FRAMING)

NOTE: STRAPS @ CORNERS & RE-ENTRANT CORNERS REQ'D ONLY WHERE EXTERIOR SHEATHING JOINTS DO NOT OCCUR OVER CONTINUOUS LSL RIM BOARD. STRAPS SHALL BE INSTALLED TIGHT & W/OUT SLACK. DO NOT INSTALL STRAPS AT A TIME WHEN SUBFLOOR OR WALL PALTES ARE WET/DAMP DUE TO RAIN AS TEMPORARY SWELLING MAY CAUSE SLACK IN STRAPS AFTER DRYING. STRAPS MAY BE INSTALLED ON INTERIOR OF BLDG WHERE BULGING OF STRAP WOULD NEGATIVELY IMPACT EXTERIOR FINISH (STUCCO, SIDING, ETC.)

NOTE: USE DETAIL 2A/S0.20 IN LIEU OF STRAPS @ CONTRACTORS OPTION

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

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

SDWF2724-TUF SCREW @ HEADER/BEAM JAMB SUPPORTING ROOF

(2) SDWC15600 SCREWS @ BOTT. OF STUD ADJACENT TO FLOOR TO FLOOR SCREW

DOOR/WINDOW ROUGH OPENING

SQUASH BLOCKS (BEYOND LSL RIMBOARD) TO MATCH JAMB ABOVE

CONT. LSL RIMBOARD PER 1/S3.10 (NOT SHOWN CONTINUOUS FOR CLARITY)

SDWF2724-TUF SCREW WHERE SHEARWALL HOLDOWN/SCREW DOES NOT OCCUR IN RETURN WALL

(2) SDWC15600 SCREWS @ TOP OF STUD ADJACENT TO FLOOR TO FLOOR SCREW

NOTE: THIS IS AN ALTERNATE DETAIL 2/S0.20

TYPE V CONSTRUCTION

(2) SDWC15600 SCREWS @ BOTT. OF STUD ADJACENT TO FLOOR TO FLOOR SCREW

(2) SDWC15600 SCREWS @ END OF SHEARWALL PER HOLDOWN SCHED

STUD WALL PER PLAN & SCHED

LSL RIMBOARD PER 1/S3.10

FLOOR TRUSSES BEYOND LSL RIMBOARD NOT SHOWN FOR CLARITY

SQUASH BLOCKS (BEYOND LSL RIMBOARD) TO MATCH SHEARWALL JAMB ABOVE

(2) SDWC15600 SCREWS @ TOP OF STUD ADJACENT TO FLOOR TO FLOOR SCREW

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

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

DBL 2x @ HOLDOWN

FLOOR CONSTRUCTION PER PLAN

FLOOR TRUSS PER PLAN

FLOOR TRUSS PER PLAN

FLOOR TRUSS PER PLAN

SIMPSON SDWF2724-TUF HOLDOWN

DBL 2x @ HOLDOWN

FLOOR CONSTRUCTION PER PLAN

FLOOR FRAMING PER PLAN

SIMPSON SDWF2724-TUF HOLDOWN

DBL 2x @ HOLDOWN

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

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

DBL 2x @ HOLDOWN

FLOOR CONSTRUCTION PER PLAN

FLOOR TRUSS PER PLAN

FLOOR TRUSS PER PLAN

FLOOR TRUSS PER PLAN

SIMPSON SDWF2724-TUF HOLDOWN

DBL 2x @ HOLDOWN

FLOOR CONSTRUCTION PER PLAN

FLOOR FRAMING PER PLAN

SIMPSON SDWF2724-TUF HOLDOWN

DBL 2x @ HOLDOWN

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

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

PROVIDE UNIT UPLIFT HOLDOWNS @ 48"oc MAX @ LOAD BEARING INTERIOR WALLS SUPPORTING ROOF TRUSSES. HOLDOWNS SHALL BE PROVIDED WITHIN 6" OF JAMBS OF ALL INTERIOR LOAD BEARING ROOF HEADERS & GIRDER TRUSS BEARING AND WITHIN 48" OF SHEARWALL HOLDOWNS

SIMPSON SDWC15600 @ EA. STUD ADJACENT TO SDWF SCREW USE TEMPLATE FOR 22 DEG INSTALLATION

TYP SIDE VIEW AT DBL STUD SCREWS AT HOLDOWN

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

(3) STUD MIN. GIRDER TRUSS BRG.

2 3/4"

2 3/4"

SQUASH BLOCKS

TRUSS CAVITY

SIMPSON SDWC15600 @ EA. SIDE OF STUD PACK

SIMPSON SDWF2724-TUF EA. SIDE OF GIRDER TRUSS STUD PACK

TYPICAL GIRDER TRUSS UPLIFT HOLDOWN DETAIL @ TOP FLOOR

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

NOTE: FOR CONTINUOUS UPLIFT LOAD PATH, ALL HOLDOWN COMPONENTS AND TENSION MEMBERS MUST BE ALIGNED FROM TOP FLOOR TO PODIUM DECK

(2) STUD MIN. @ END OF SHEARWALL

2 3/4"

SIMPSON SDWC15600 @ EA. SIDE OF STUD PACK

STUD PACK ATTACHED TO SHEARWALL HDU HOLDOWN BELOW

SIMPSON SDWF2724-TUF SQUASH BLOCKS

ALTERNATE FLOOR TO FLOOR TIE-DOWN AT END OF WALL

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

UPSET BEAM PER PLAN/SCHED.

1 1/4" MIN. SPACING

3/4" MIN. EDGE DIST.

WALL DOUBLE TOP PLATE

SIMPSON MST16 CONNECTOR EACH SIDE OF STUD PACK/COL. TO TOP PLATE (LOCATE ON SAME SIDE OF WALL AS UPLIFT SCREWS)

BEAM BEARING STUDS/POST PER SCHED. (RE: 4/S0.20 FOR UPLIFT HOLDOWN @ BASE OF WALL)

SIMPSON SDWC15600 UPLIFT SCREWS (INSTALL @ ± 22 1/2" ANGLE PER MFG'R'S REQMTS). PROVIDE (1) SCREW FOR EACH NOMINAL 2x WIDTH OF BM (I.E. 2 SCREWS FOR 4x AND 3 SCREWS FOR 6x MEMBERS)

TYPICAL AT PERPENDICULAR WALL

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

UPSET BEAM PER PLAN/SCHED.

SIMPSON MST16 INSIDE CORNER OF WALL

TOE-SCREWS TO WALL TOP PL PER 5/S0.21

WALL DOUBLE TOP PLATE

ADD'L STUD ON I.F. OF BRG STUDS/POST W/ 0.131"x3" FACE NAILS @ 9"oc TO BRG STUDS/POST

BEAM BEARING STUDS PER SCHED. (RE: 2A/S0.20 FDN UPLIFT HOLDOWN @ BASE OF WALL)

TYPICAL AT WALL CORNERS

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

SIMPSON LSTA15 STRAP OUTSIDE CORNER OF WALL

UPSET BEAM PER PLAN/SCHED.

TOE-SCREWS TO WALL TOP PL PER 5/S0.21

BEAM BEARING STUDS/POST PER SCHED. (RE: 4/S0.20 FOR UPLIFT HOLDOWN @ BASE OF WALL)

TYPICAL AT PARALLEL WALL

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

NOTE: PROVIDE SQUASH BLOCKS SIM TO DETAIL SHOWN HERE WHERE LADDER TRUSS RUNS ATOP WALL PARALLEL TO RIM BOARD. USE DETAIL 7A/S0.20 SIM @ 2x4 WALLS

STUD PACK/JAMB ABOVE

FLOOR DECK PER SCHED.

2x BOTT. PL.

CONT. LSL RIM BOARD

(2) 0.131"x3" TOE-NAILS EACH SIDE TO CONT. RIM BOARD

(2) 0.131"x3" TOE-NAILS EACH SIDE TOP & BOTT. OF STUD PACK TO WALL PLATE ABOVE/BELOW

2x4, 18 1/16"Lg (TO MATCH LSL DEPTH) SQUASH BLOCKS TO MATCH NUMBER OF STUDS IN STUD PACK/JAMB ABOVE DBL. 2x CONT. TOP PLATE

STUD PACK/JAMB BELOW

TYPICAL SQUASH BLOCK AT CONTINUOUS RIM BOARD

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

STUD PACK/JAMB ABOVE

FLOOR DECK PER SCHED.

2x BOTT. PL.

LSL BLOCKING PER DETAILS

DBL. 2x CONT. TOP PLATE

STUD PACK/JAMB BELOW

2x SQUASH BLOCK, 18 1/16"Lg (TO MATCH LSL DEPTH), EACH SIDE OF LSL BLOCKING, WIDTH TO MATCH WIDTH OF STUD PACK/JAMB ABOVE (PROVIDE MULTIPLE 2x's WHERE REQ'D TO MATCH STUD PACK WIDTH), PROVIDE 3 ROWS OF (2) 0.131"x3" FACE NAILS TO LSL BLOCKING

TYPICAL SQUASH BLOCK DETAIL AT LSL BLOCKING

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

2x6 EXTERIOR WALL

2x6 STUD FRAMING AS SHOWN

0.131"x3" NAILS @ 6"oc AS SHOWN

SIMPSON C516 w/ (10) 10d x 3"Lg NAILS EA. SIDE OF TOP PL. SPLICE @ BOTH TOP PL SPLICE @ BOTH PL's (SHIM SIDE OF 2x8 w/ 3/8" THK SHIM TO KEEP STRAP TIGHT)

TERMINATION OF 2x8 TOP PL

SHEARWALL NAILING TO CHORD STUDS PER 13/S0.03

2x6 EXTERIOR WALL

EXTERIOR SHEATHING

2x8 @ END OF DBL WALL

ATS ROD, TAKEUP DEVICE & BRG PL

SHEARWALL SHEATHING PER SCHED.

2x4 WALL

2x4 WALL

1" AIR GAP

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

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

STUDS WALL PER PLAN & SCHED

ATS ROD PL TAKEUP DEVICE & BRG PL

0.131"x3" FACE NAILS @ 6"oc (TYP.)

SHEATHING NAILING PER SHEARWALL SCHED.

3 1/2" STUD CAVITY

CORRIDOR SIDE

UNIT SIDE

SILL ANCHORS PER SHEARWALL SCHED.

SHEATHING NAILING TO CHORD STUDS PER 13/S0.03

SHEATHING PER SHEARWALL SCHED.

2x4 BRG STUDS PER SCHED.

SHEATHING PER ARCH ON CORRIDOR SIDE OF WALL.

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

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

(6) 0.131"x3" FACE NAILS @ TOP PL INTERSECTION OF DOUBLE DEMISING WALL TO PERPENDICULAR WALL

2x8 TOP PL (SHOWN DASHED)

TERMINATE TOP PL OF DBL TOP PL @ INTERSECTING 2x8 TOP PL (SPLICE EXTERIOR TOP PL PER 7/S0.04)

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

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

NOTE: RE. 7/S0.20 FOR TOP PL LAP

2x4 STUD BRG WALL PER SCHED.

ATS ROD, TAKEUP DEVICE & BRG PL

0.131"x3" NAILS @ 6"oc (TYP.)

SHEATHING PER SHEARWALL SCHED. (INSTALLED BEFORE PLUMBING WALL INSTALLATION)

2x8

2x4

SHEATHING PER ARCH ON CORRIDOR SIDE OF WALL ATOP RC CHANNELS

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

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

STUD WALL PER PLAN & SCHED.

16d NAILS @ 6"oc

SHEATHING PER SHEARWALL SCHED.

SILL ANCHORS PER SHEARWALL SCHED.

SHEATHING NAILING PER SHEARWALL SCHED.

16d NAILS @ 12"oc

SHEATHING PER ARCH.

TYPICAL @ DISCONTINUOUS SHEARWALL SHEATHING

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

INTERIOR NON-LOAD BRG. WALL PER ARCH.

SHEATHING PER SHEARWALL SCHED.

SHEATHING PER ARCH.

TYPICAL @ SHEARWALL SHEATHING CONTINUOUS PAST NON-LOAD BRG WALL

15 SECTION
1" = 1'-0"

2x6 CONT. w/ 20d NAILS @ 16"oc TO RIM BOARD (UNLESS NOTED OTHERWISE IN SHEARWALL SCHEDULE)

SHEATHING EDGE NAILING

CONT 1 1/4"x18" LSL RIM BOARD

SIMPSON SDWS22500 @ 16"oc THRU DBL TOP PL TO CENTER OF RIMBOARD

TYPICAL LATERAL NAILING AT EXTERIOR WALL WITH TRUSS BEARING

15A SECTION
1" = 1'-0"

2x6 CONT. w/ 20d NAILS @ 16"oc TO RIM BOARD (UNLESS NOTED OTHERWISE IN SHEARWALL SCHEDULE)

SHEATHING EDGE NAILING

CONT 1 1/4"x18" LSL RIM BOARD W/ 16d FACE NAILS @ 16"oc (RIM BOARD TO LADDER TRUSS TOP & BOTT. CHORD & TRUSS BOTT. CHORD TO WALL TOP PL)

SIMPSON SDWS22500 @ 16"oc THRU DBL TOP PL TO CENTER OF RIMBOARD

TYPICAL LATERAL NAILING AT EXTERIOR WALL PARALLEL TO TRUSSES

15B SECTION
1" = 1'-0"

2x6 CONT. w/ 20d NAILS @ 16"oc TO RIM BOARD (UNLESS NOTED OTHERWISE IN SHEARWALL SCHEDULE)

SHEATHING EDGE NAILING

CONT 1 1/4"x18" LSL RIM BOARD

SIMPSON SDWS22500 @ 16"oc THRU DBL TOP PL TO CENTER OF RIMBOARD

TYPICAL LATERAL NAILING AT ONE SIDED WALL WITH TRUSS BEARING

15C SECTION
1" = 1'-0"

2x CONT. w/ 20d NAILS @ 12"oc TO RIM BOARD (UNLESS NOTED OTHERWISE IN SHEARWALL SCHEDULE)

CONT 2x4 LADDER TRUSS (TIGHT TO RIM BOARD)

SIMPSON SDWS22500 @ 16"oc THRU DBL TOP PL TO CENTER OF RIMBOARD

(2) 2x6 TOP PL

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

15D SECTION
1" = 1'-0"

2x4 CONT. w/ 20d NAILS @ 12"oc TO RIM BOARD (UNLESS NOTED OTHERWISE IN SHEARWALL SCHED.)

SHEARWALL EDGE NAILING @ SHEARWALLS

CONT 1 1/4"x18" LSL RIM BOARD

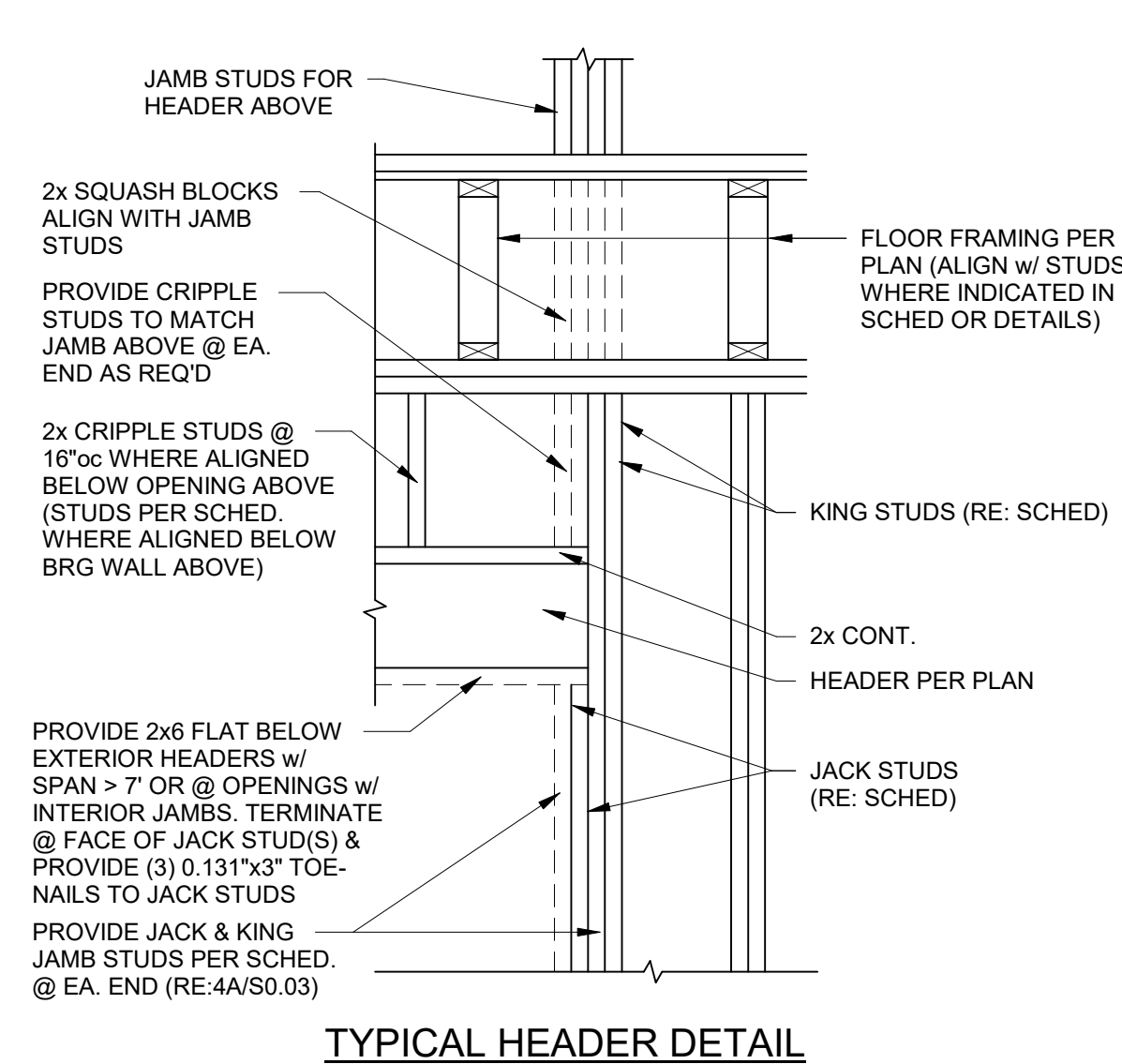
SIMPSON SDWS22500 @ 16"oc THRU DBL TOP PL TO CENTER OF RIMBOARD

SHEARWALL EDGE NAILING @ SHEARWALLS

TYPICAL LATERAL NAILING AT DOUBLE UNIT DEMISING WALLS WITH TRUSS BEARING

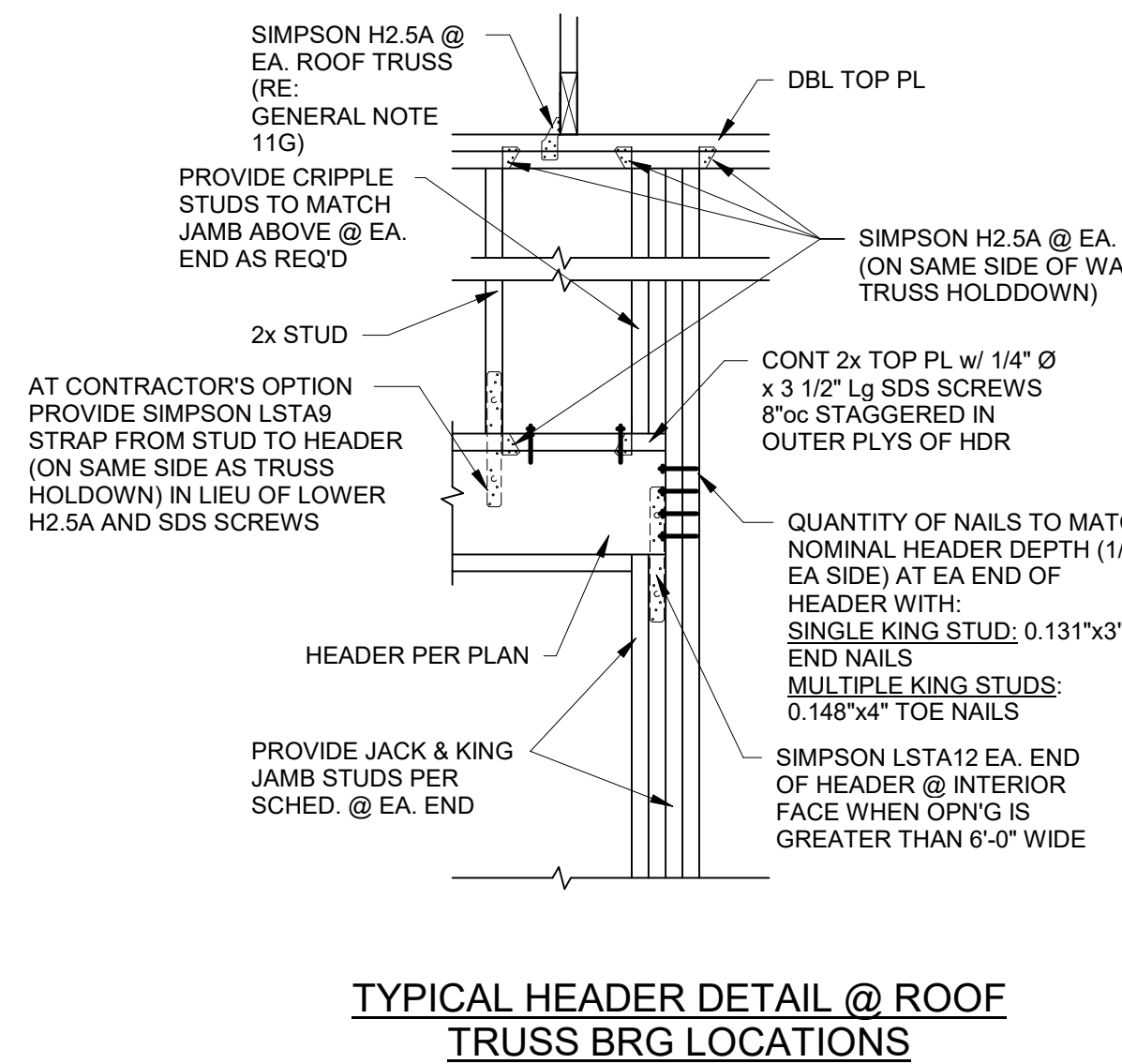
PERMIT SET

S0.20



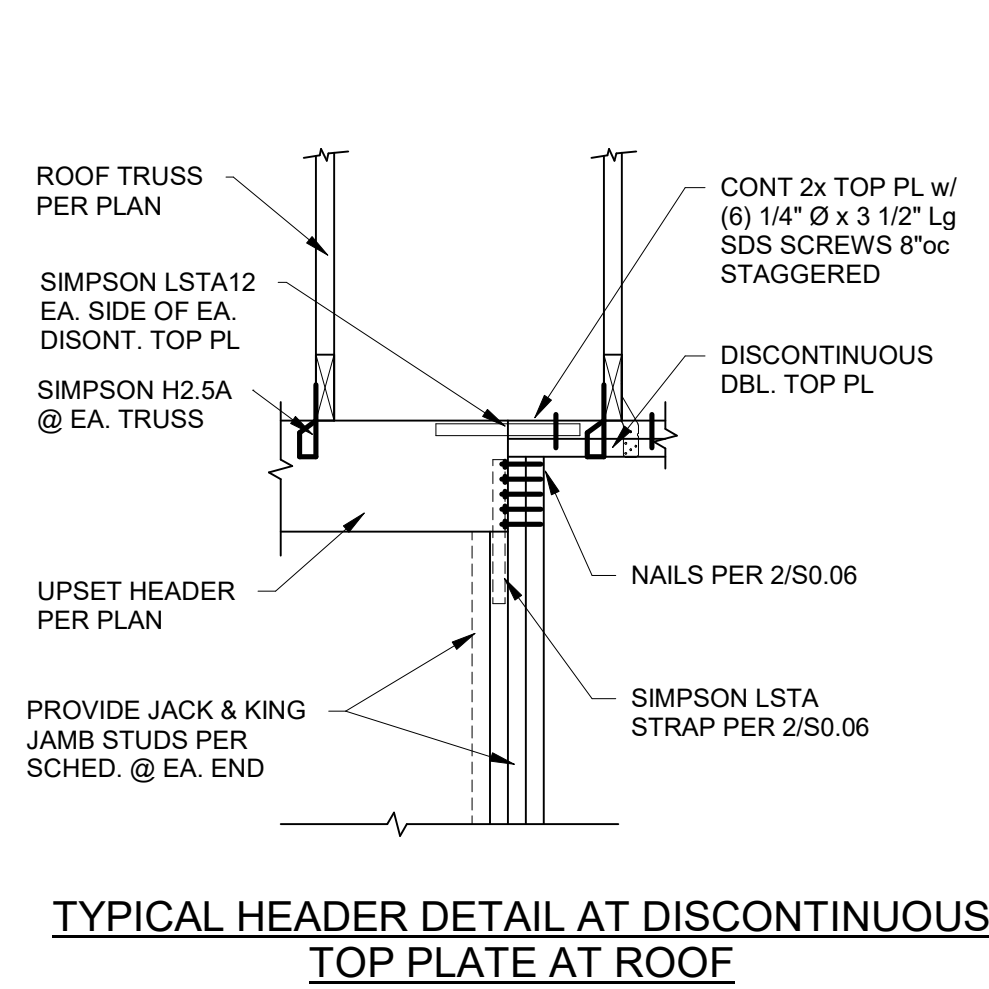
1 SECTION

3/4" = 1'-0"



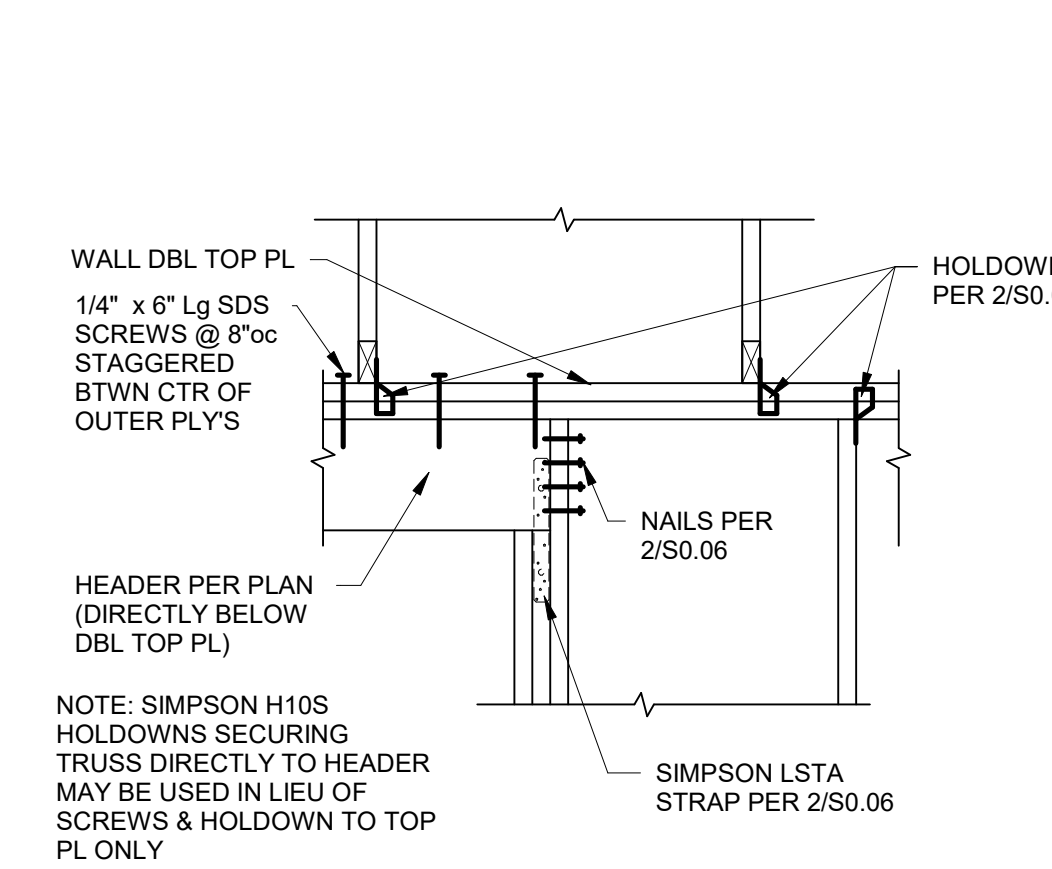
2 SECTION

3/4" = 1'-0"



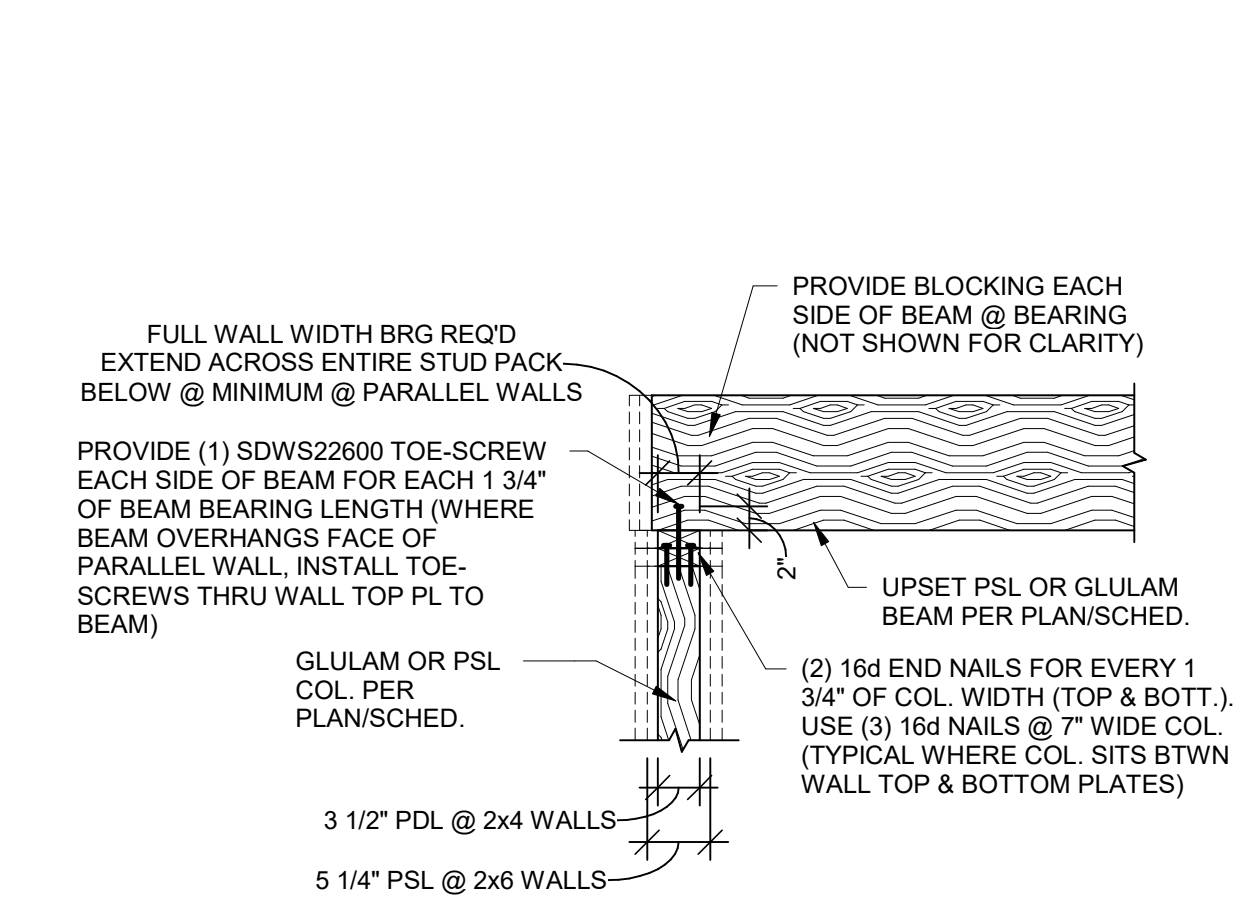
3 SECTION

3/4" = 1'-0"



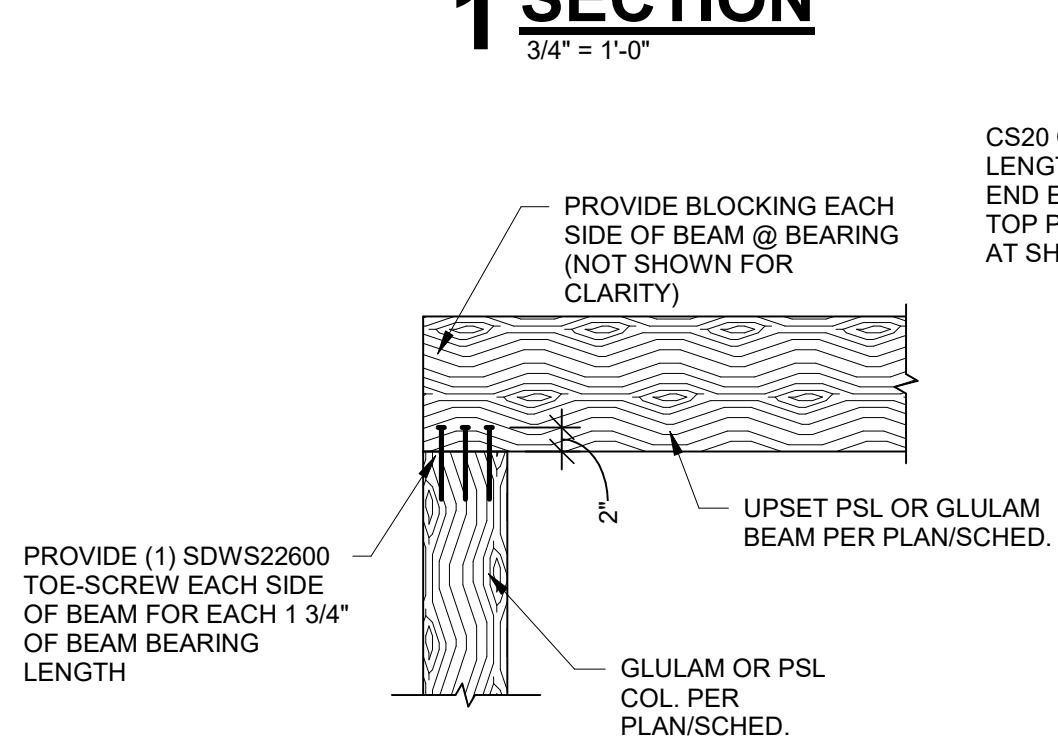
4 SECTION

3/4" = 1'-0"



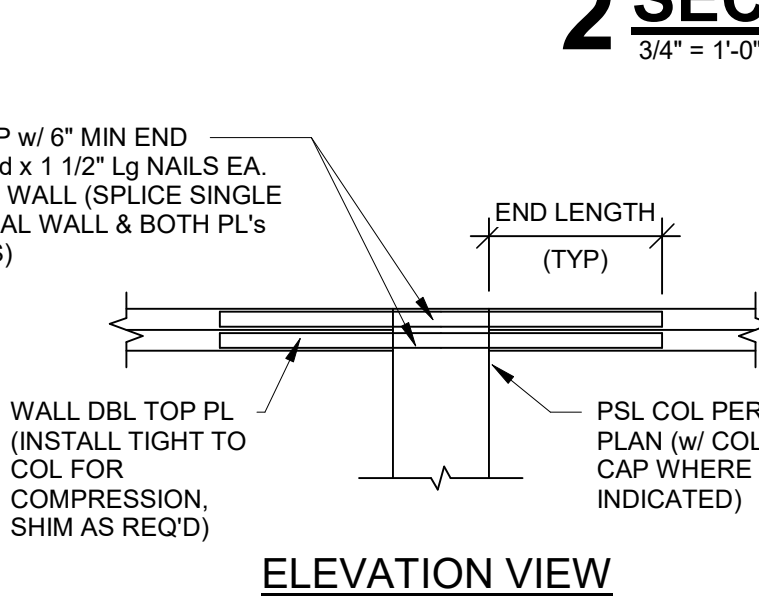
5 SECTION

3/4" = 1'-0"

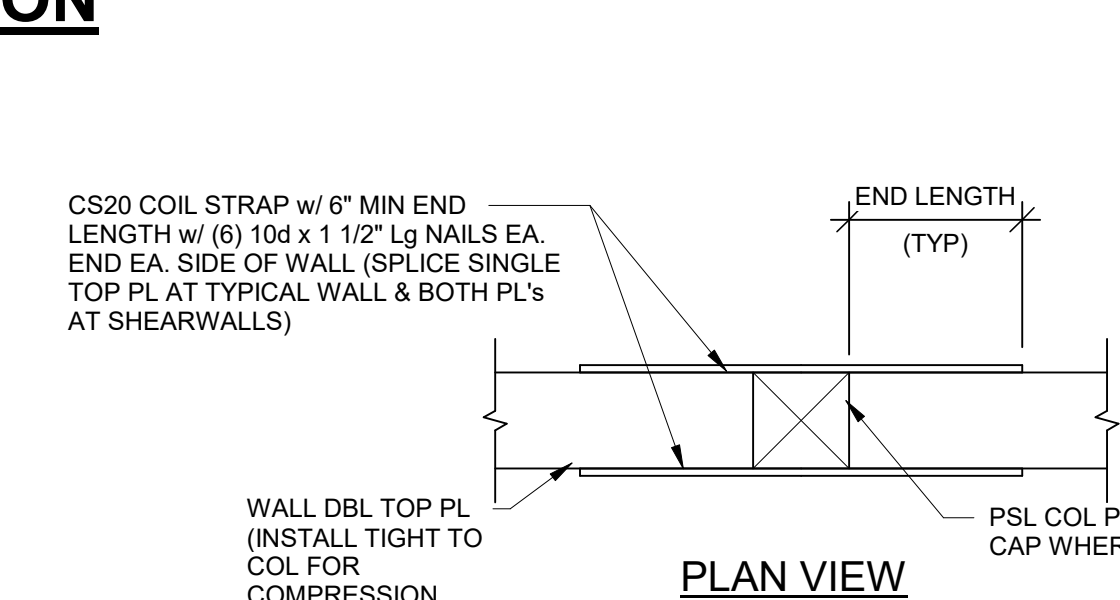


5A SECTION

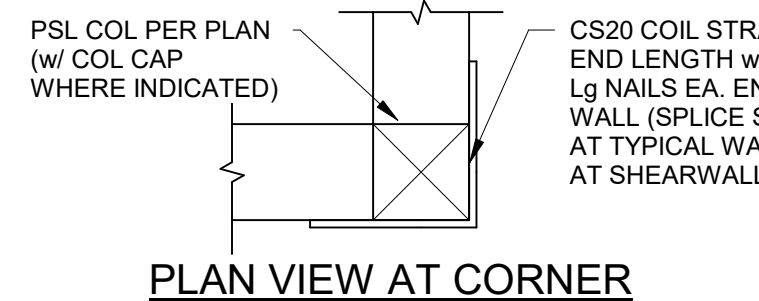
3/4" = 1'-0"



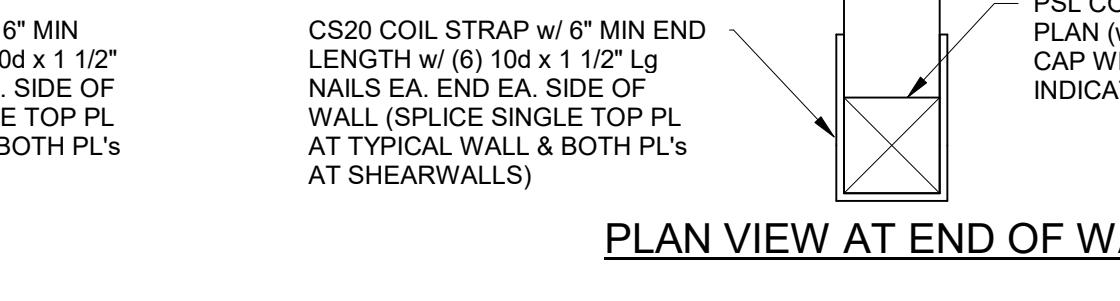
ELEVATION VIEW



PLAN VIEW



PLAN VIEW AT CORNER

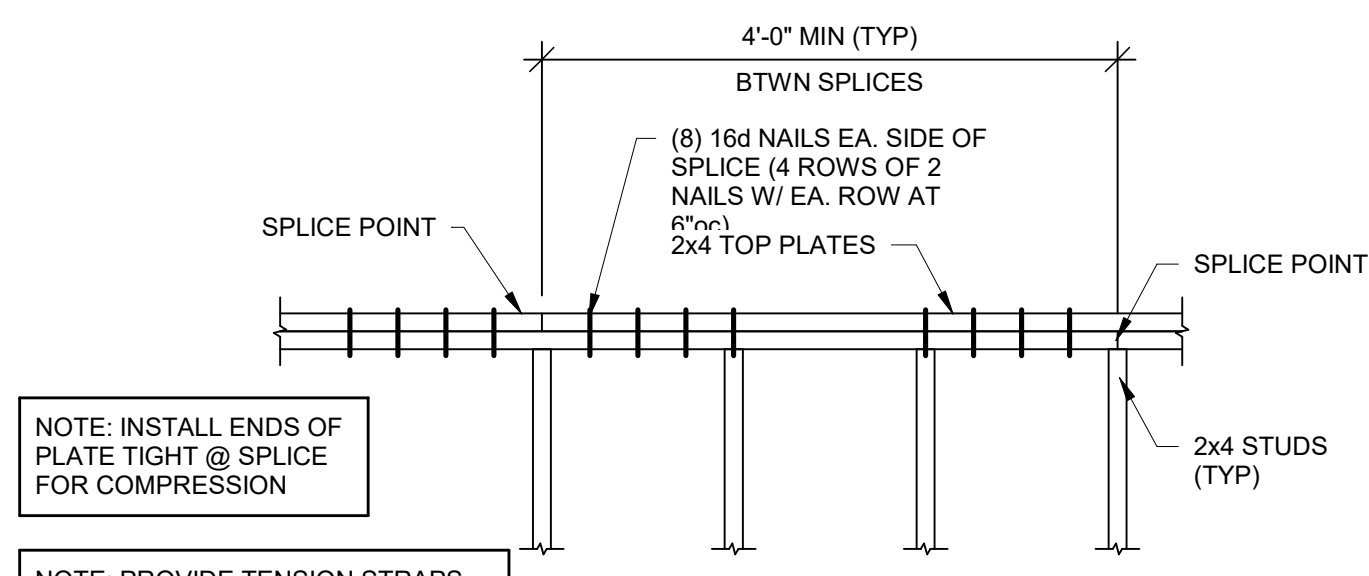


PLAN VIEW AT END OF WALL

TYPICAL STRAPS @ DISCONTINUOUS TOP PL @ COL

6 SECTION

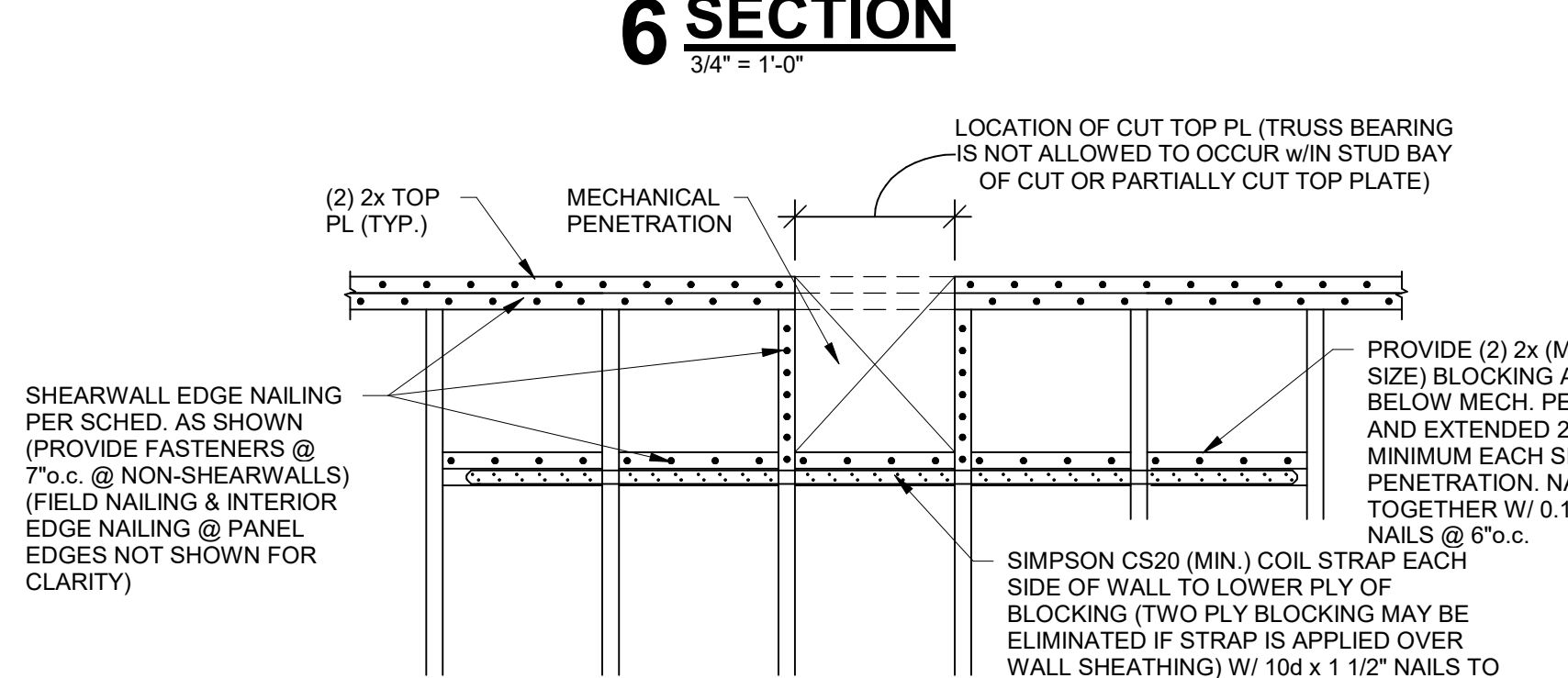
3/4" = 1'-0"



TYPICAL TOP PLATE SPLICE

11 SECTION

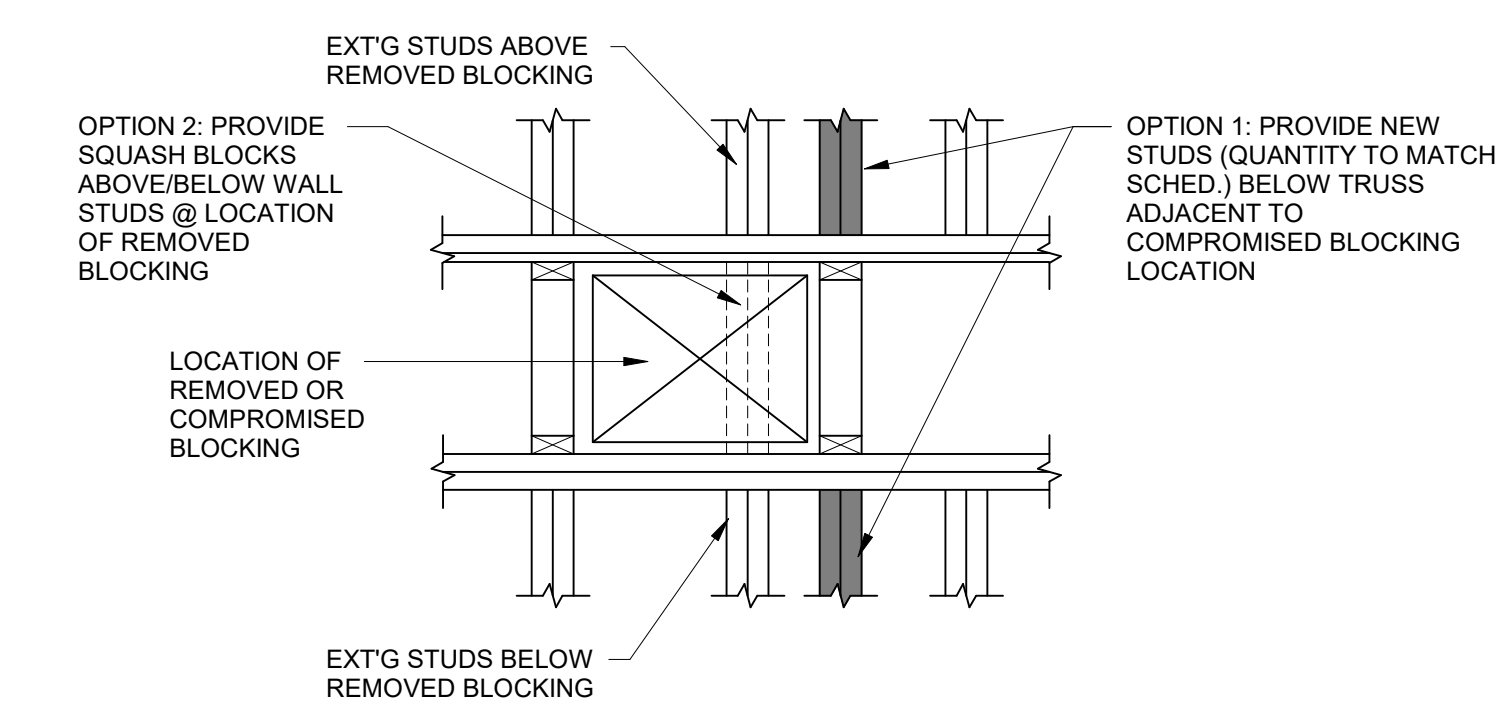
3/4" = 1'-0"



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

11A SECTION

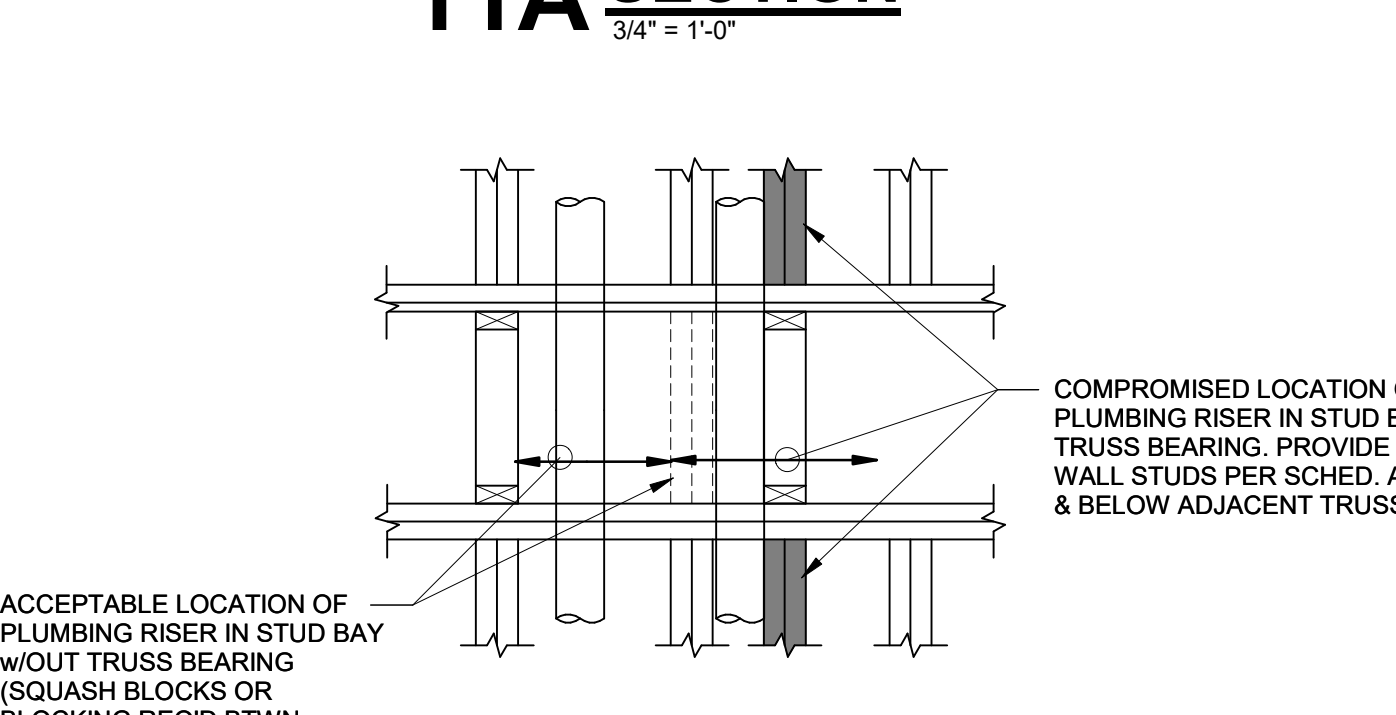
3/4" = 1'-0"



TYPICAL WHERE MECHANICAL DUCT INTERRUPTS LSL

14 SECTION

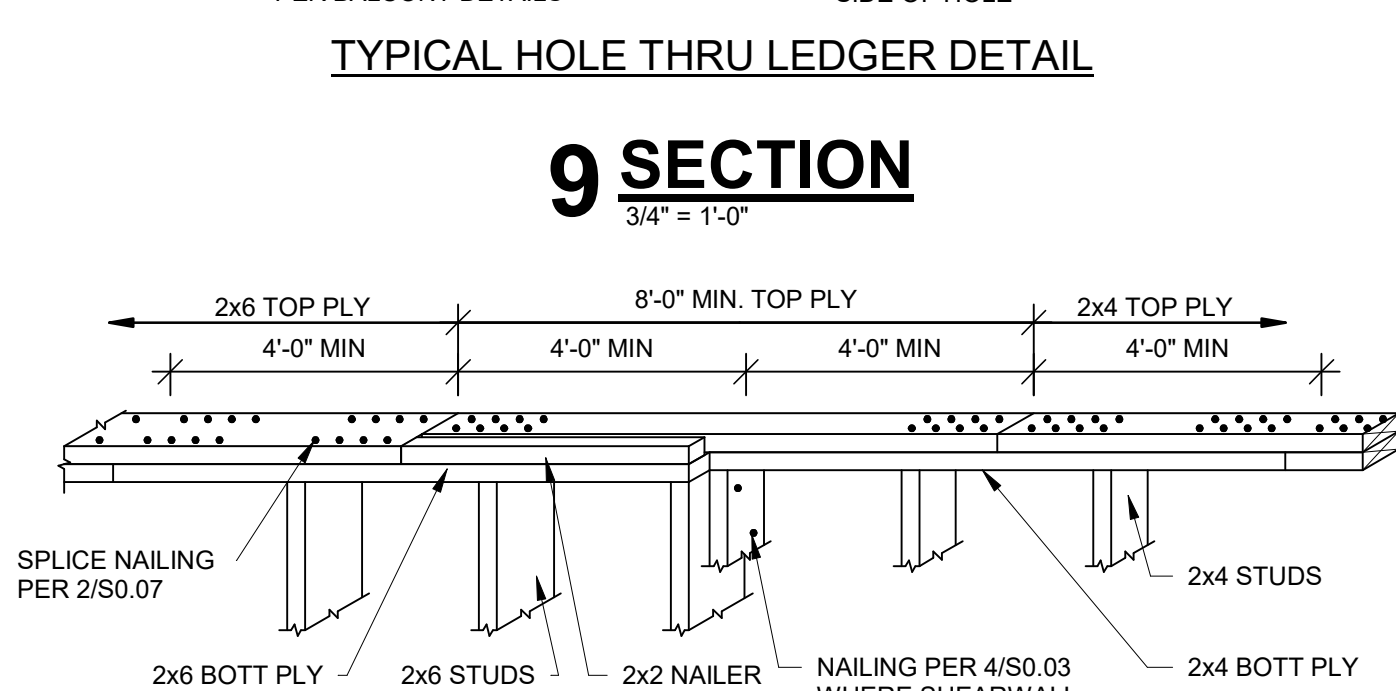
3/4" = 1'-0"



TYPICAL WHERE PLUMBING INTERRUPTS TOP PL

15 SECTION

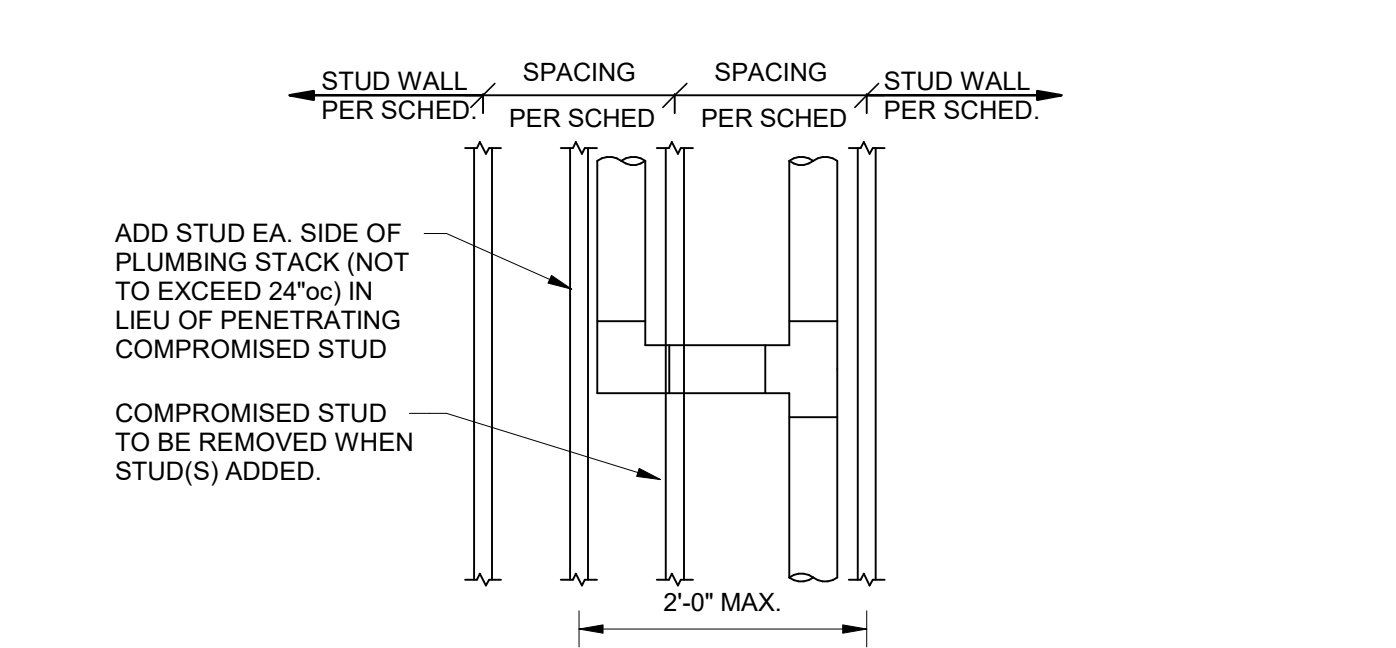
3/4" = 1'-0"



TYPICAL TOP PLATE SPLICE AT WALL SIZE TRANSITION

12 SECTION

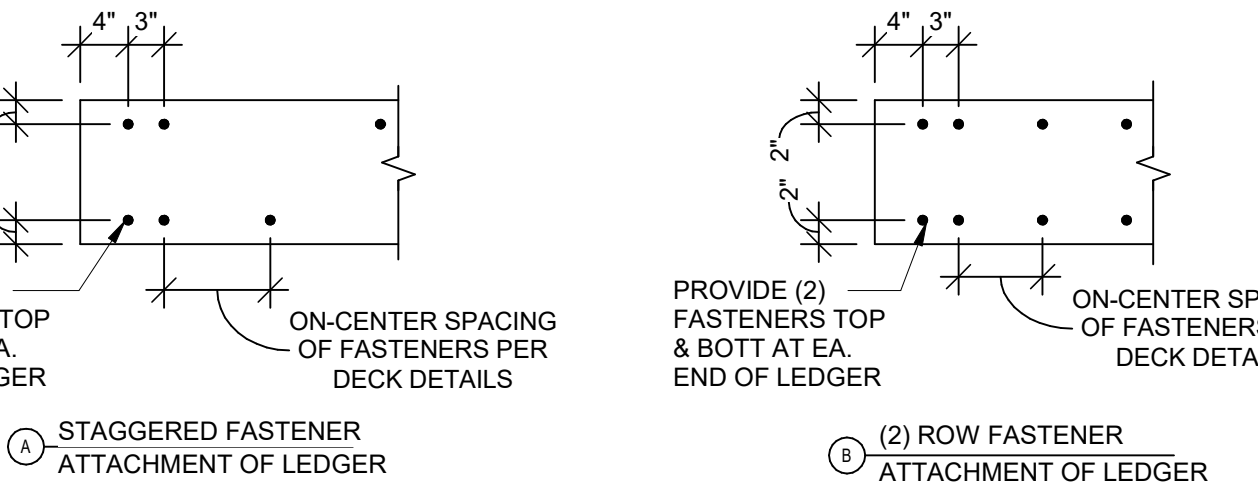
3/4" = 1'-0"



TYPICAL WHERE PLUMBING STACK HAS HORIZONTAL JOG

16 SECTION

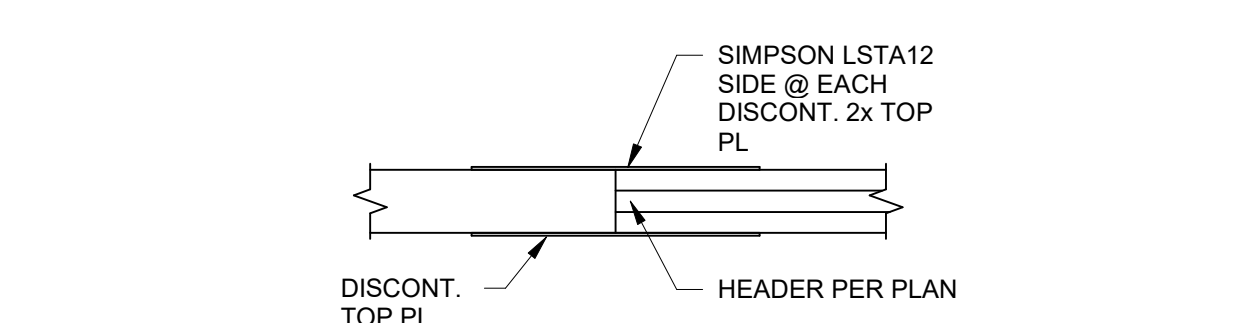
3/4" = 1'-0"



TYPICAL LEDGER CONNECTION

8 SECTION

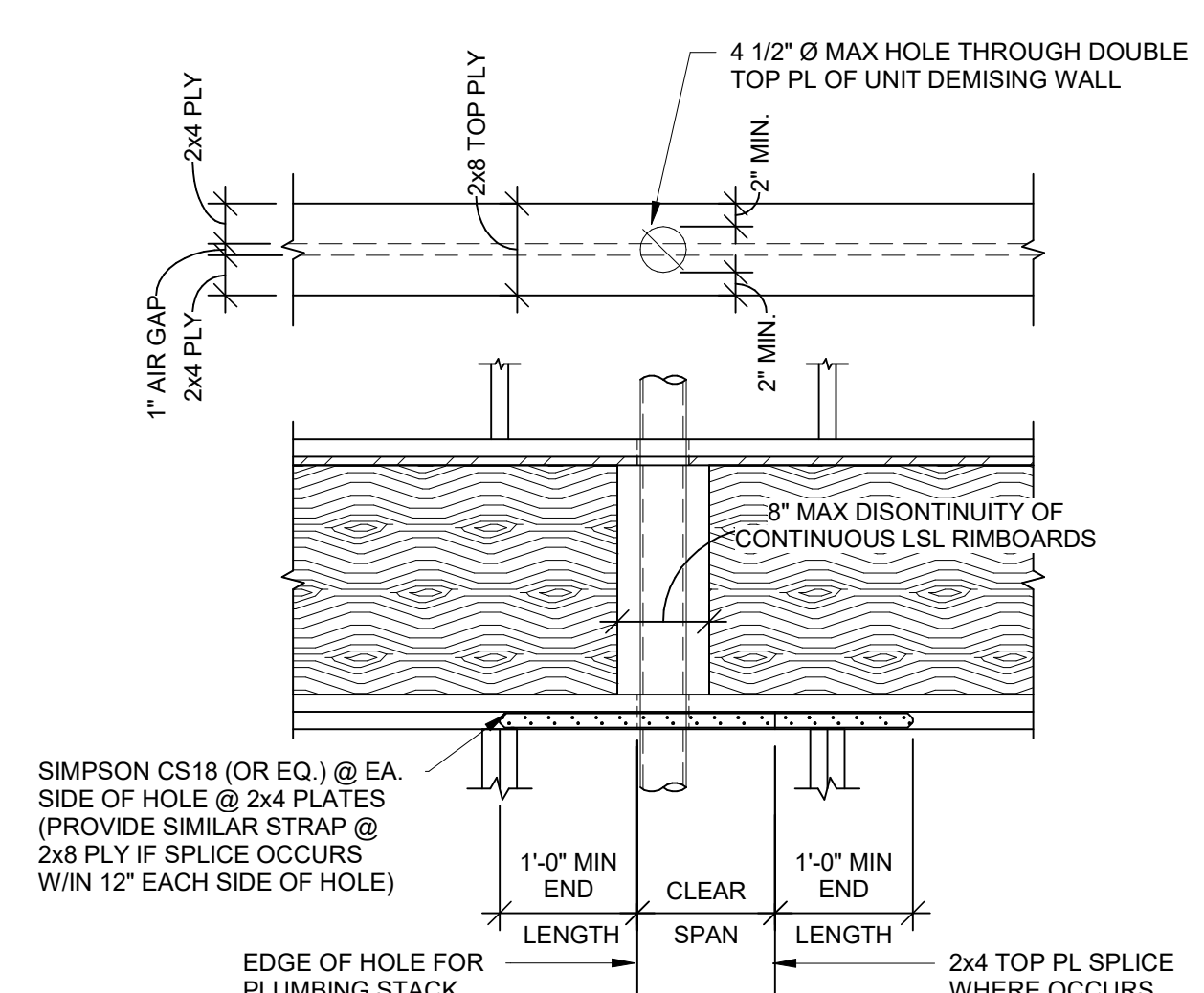
3/4" = 1'-0"



TYPICAL SPLICE AT DISCONTINUOUS TOP PL

10 SECTION

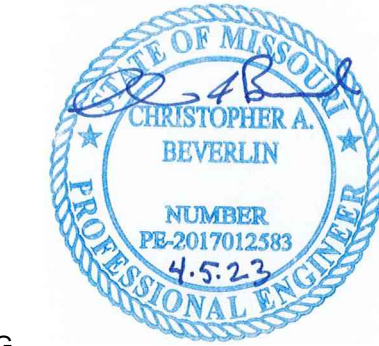
3/4" = 1'-0"



TYPICAL DETAIL AT PLUMBING STACK IN DOUBLE UNIT DEMISING WALLS

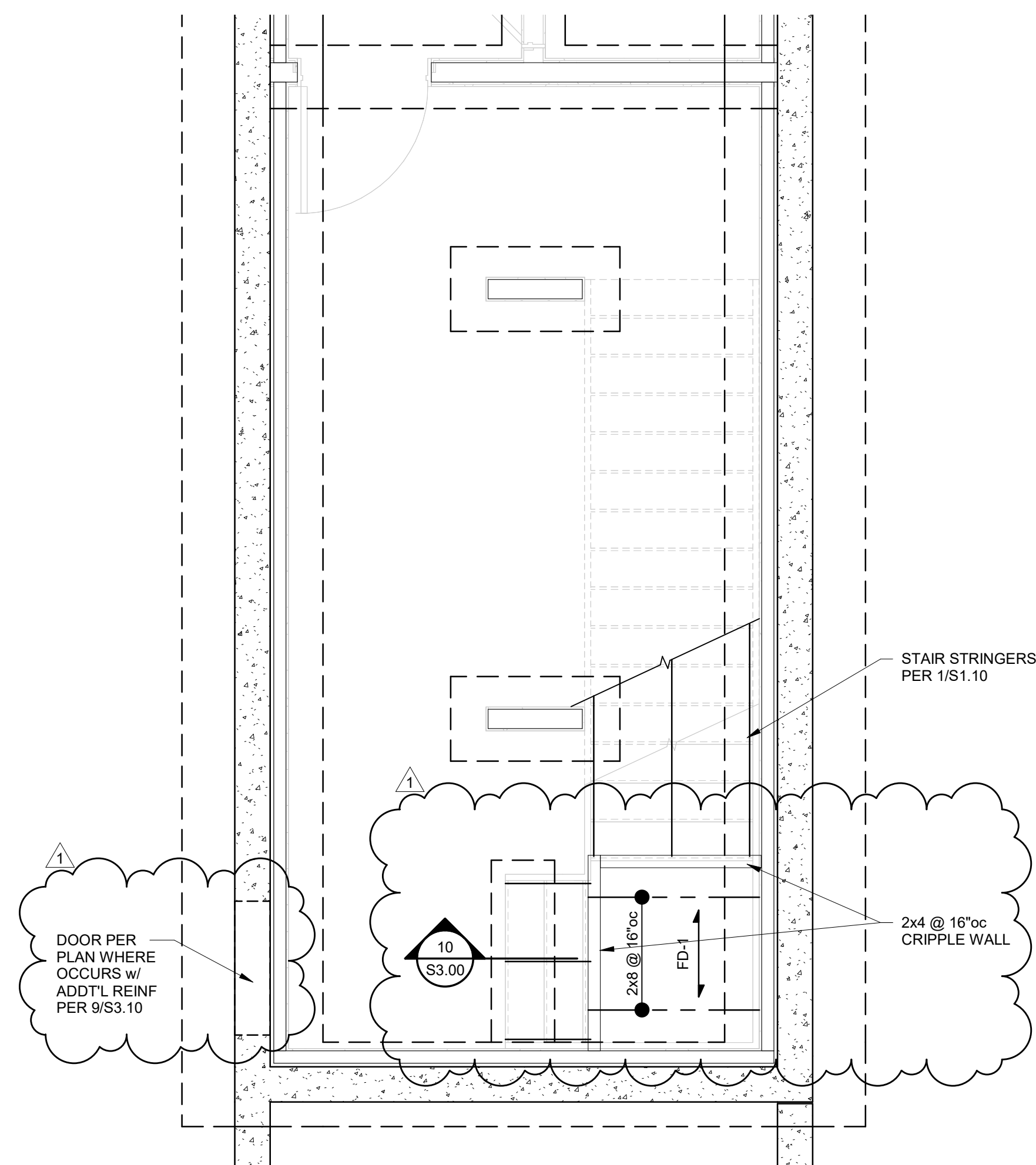
13 SECTION

3/4" = 1'-0"

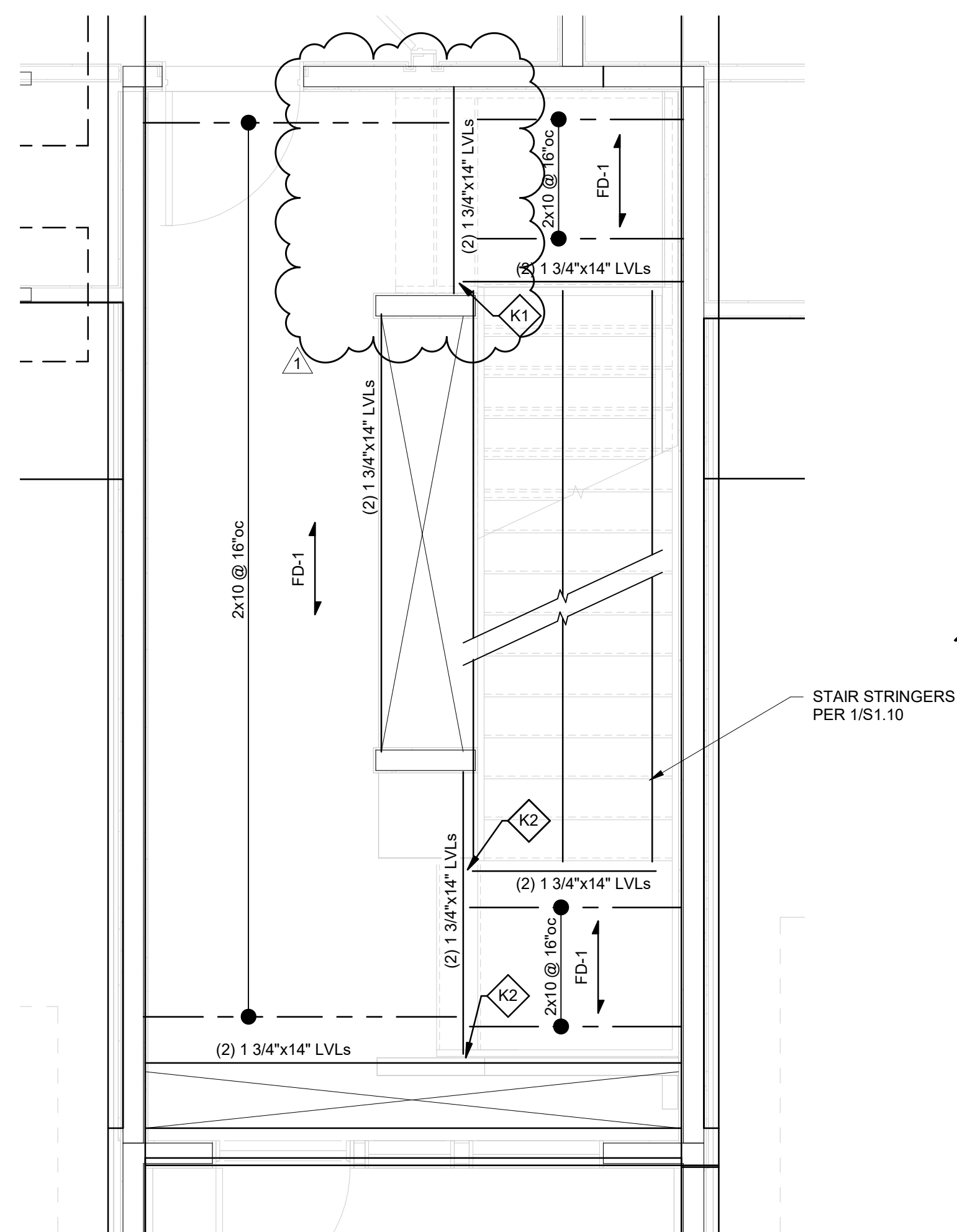




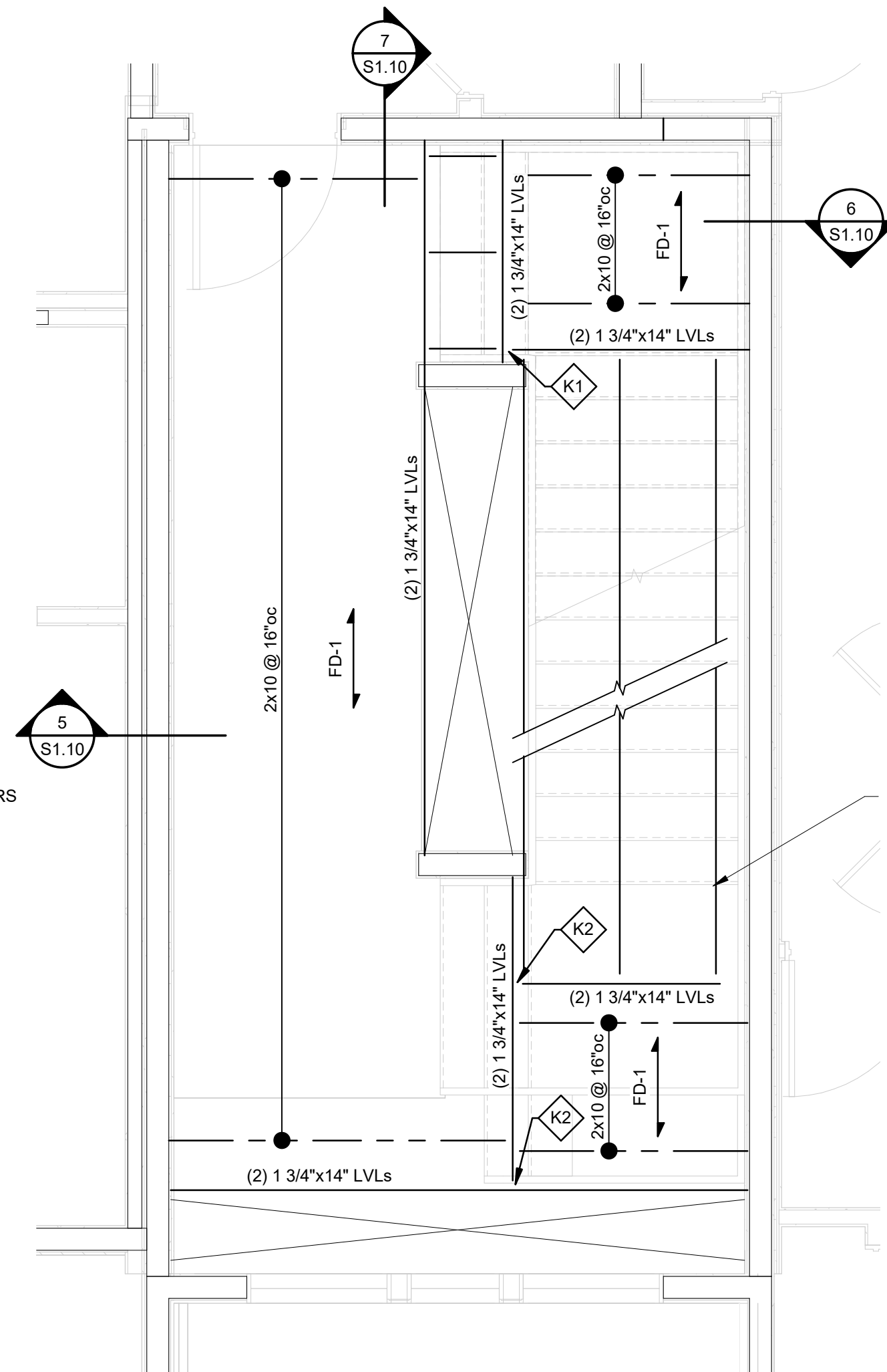
SHEET NO. 60 22



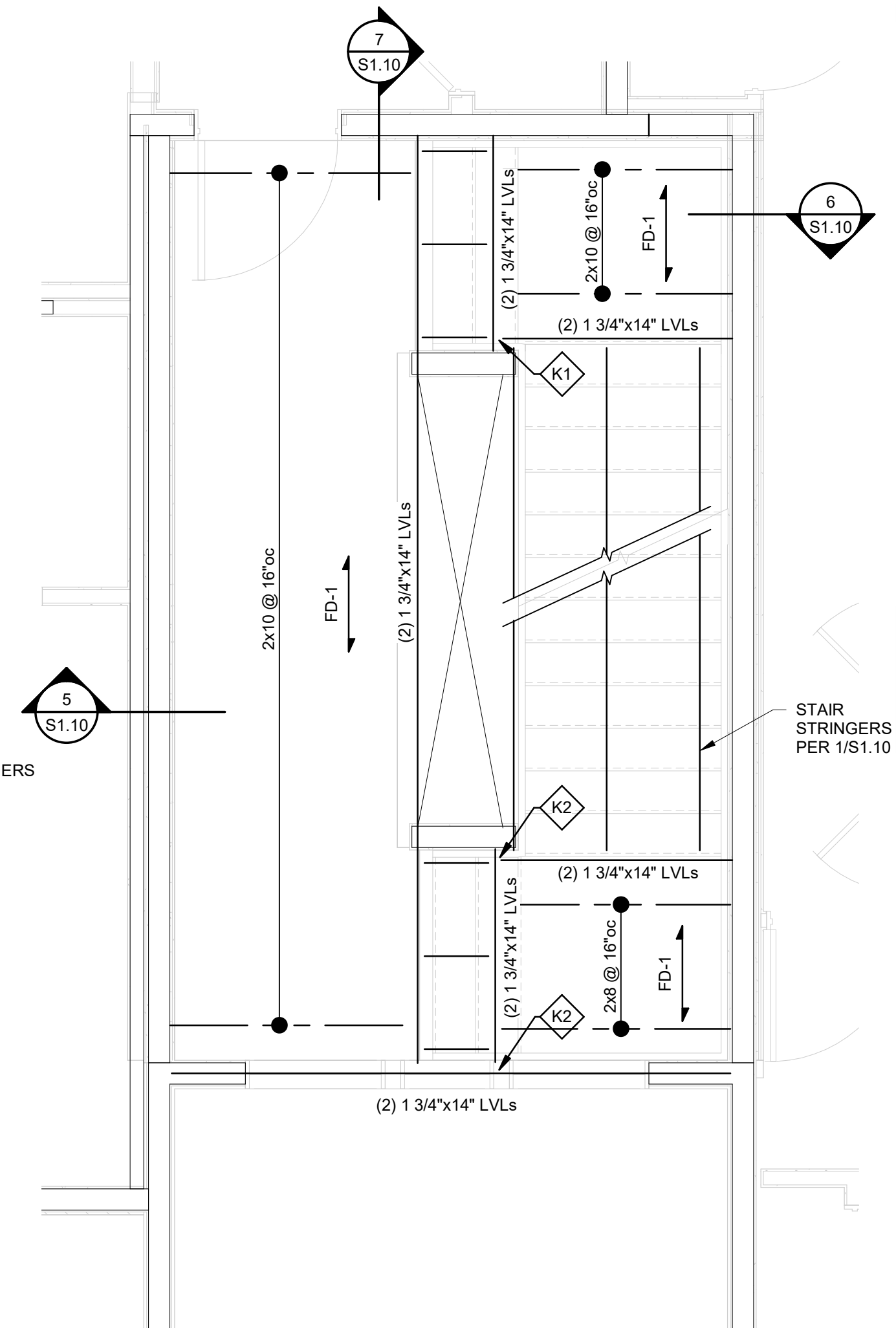
1 STAIR 1 LOWER LEVEL FRAMING PLAN



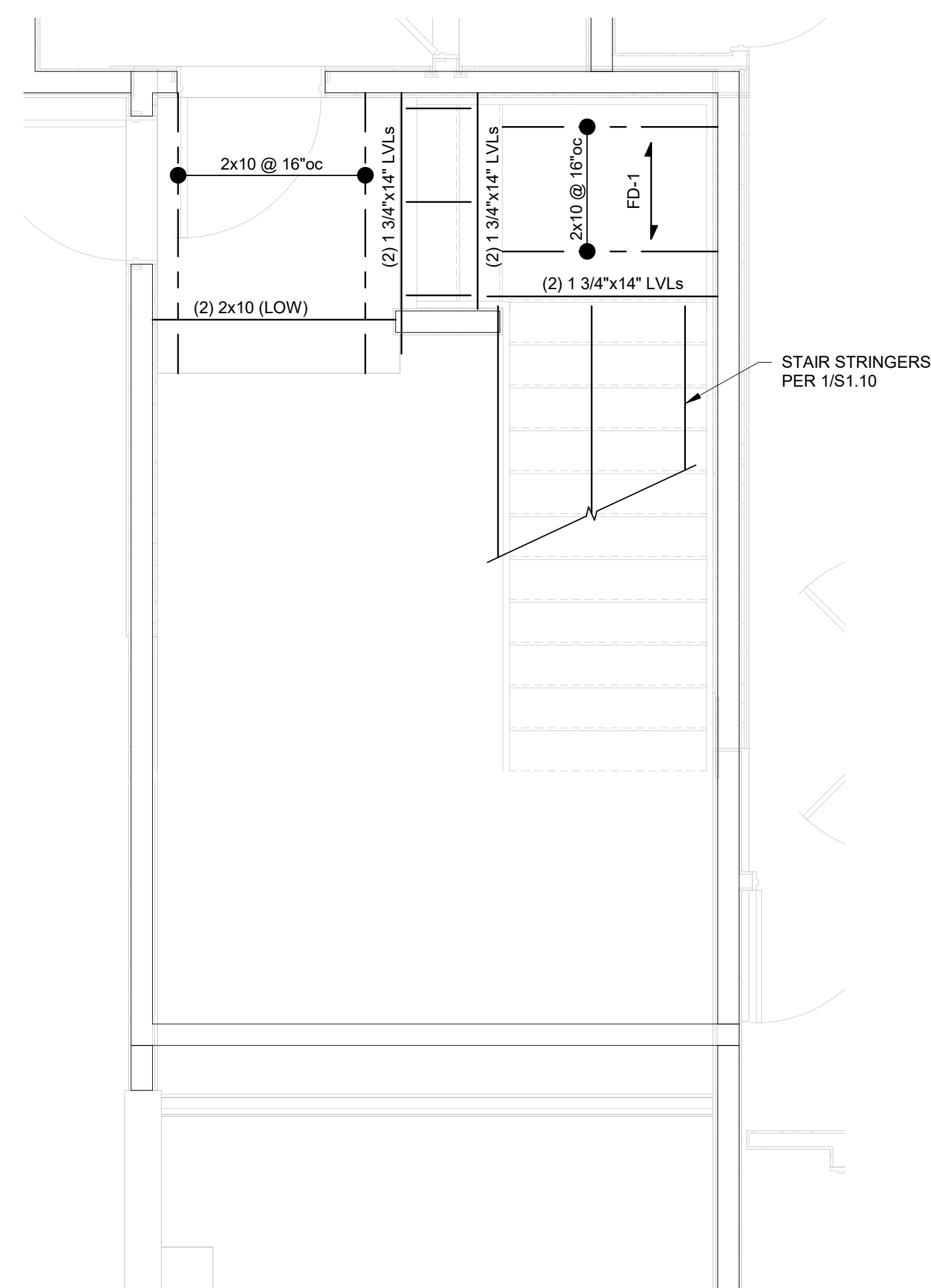
2 STAIR 1 1ST FLOOR FRAMING PLAN



3 STAIR 1 2ND FLOOR FRAMING PLAN



4 STAIR 1 3RD FLOOR FRAMING PLAN



5 STAIR 1 4TH FLOOR FRAMING PLAN

A NEW DEVELOPMENT:

RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO



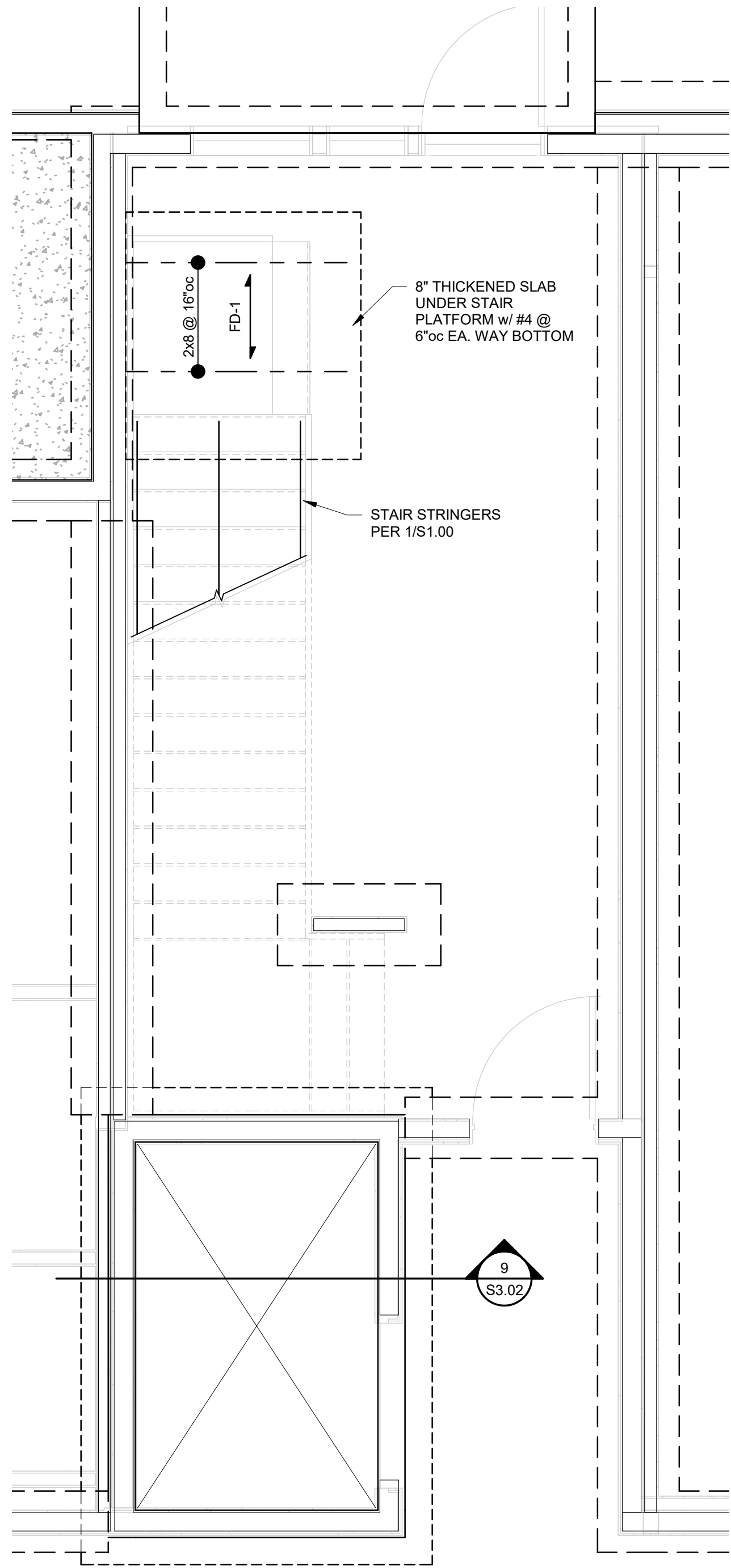
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696521
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CAB/JLF
SHEET NO.

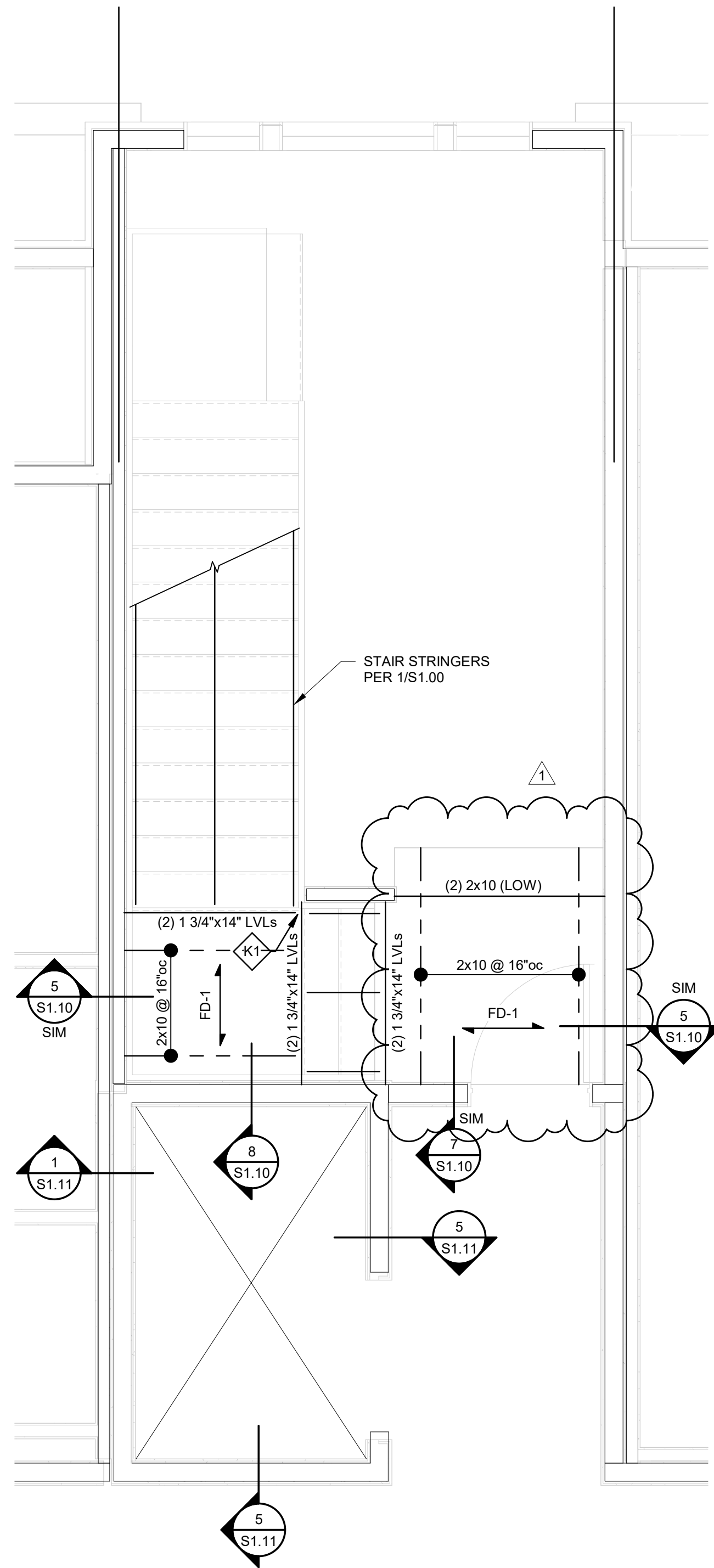
PERMIT SET

\$1.00

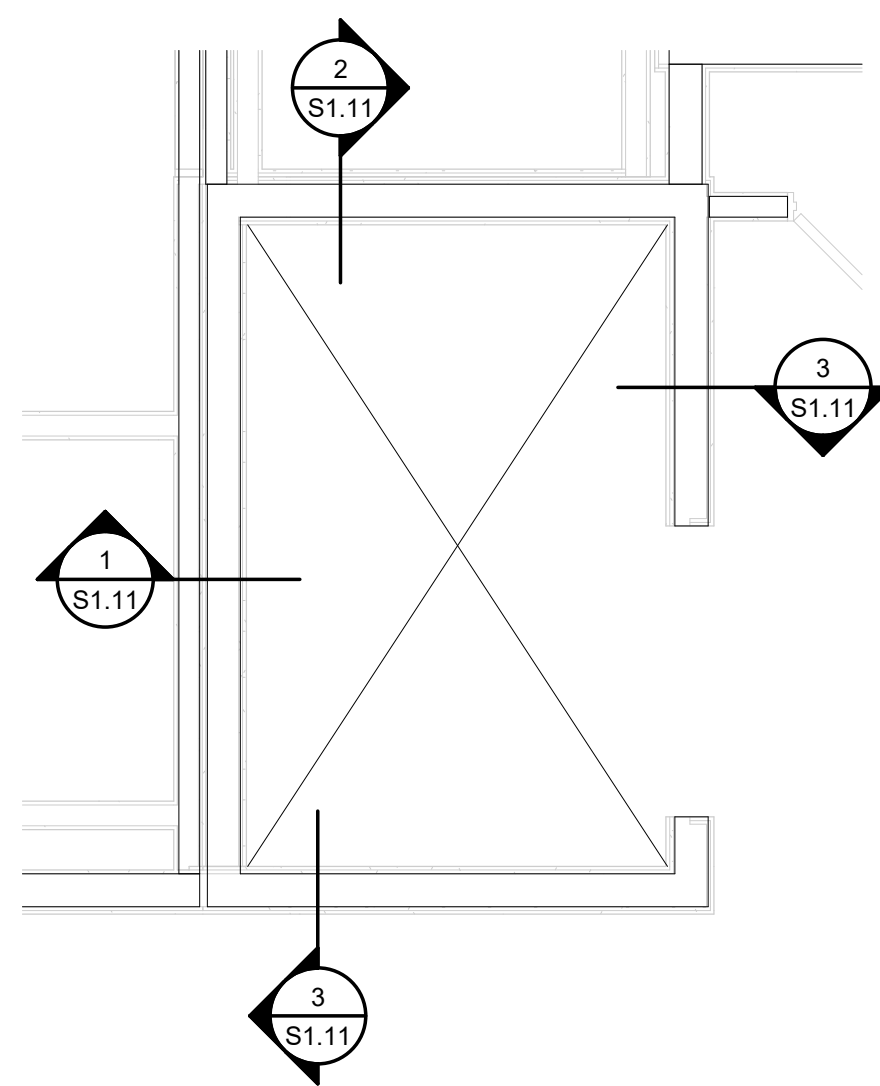
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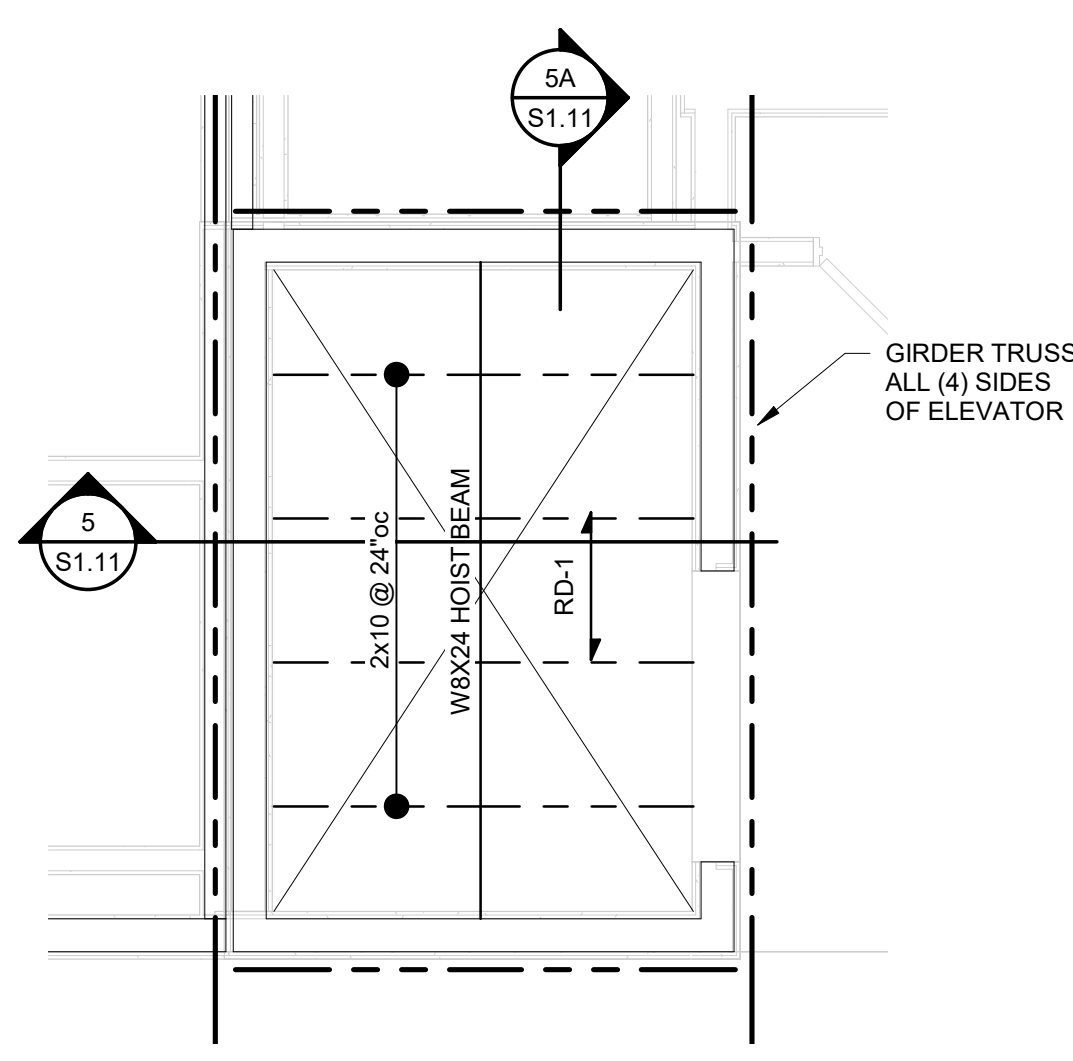
1 STAIR 2 & ELEVATOR LOWER LEVEL FRAMING PLAN
3/8" = 1'-0"



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



3 ELEVATOR 2ND/3RD/4TH FLOOR FRAMING PLAN
3/8" = 1'-0"



4 ELEVATOR ROOF FRAMING PLAN
3/8" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development: NSPJ Architects
Lee's Summit, MO
P. 913.831.1111
F. 913.831.1111
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ARCHITECTURE
LANDSCAPE
ARCHITECTURE
ENERGY SERVICES

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STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
NUMBER
PB-201701012383
4-5-23
PROFESSIONAL SEAL

A NEW DEVELOPMENT:
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REVISIONS:
1 4/5/2023 Addendum 1

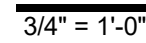
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696521
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SHEET NO.

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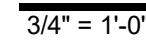
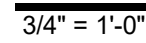
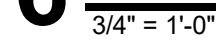
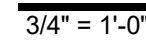
S1.01



3/4" = 1'-0"


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


3/4" = 1'-0"



RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO



DRAWING RELEASE LOG

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\$1.10



A NEW DEVELOPMENT:

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Δ REVISIONS:
1 4/05/2023 Addendum 1

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696521
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SHEET NO

PERMIT SET

S1.11

1 BALCONY FRAMING PLAN

2 BALCONY FRAMING PLAN

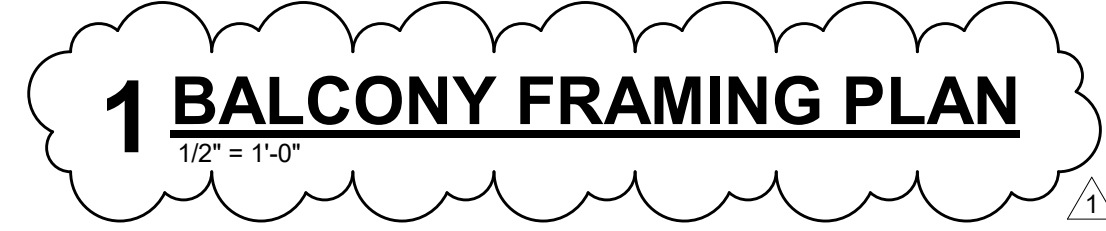
3 BALCONY FRAMING PLAN

4 BALCONY FRAMING PLAN

5 BALCONY FRAMING PLAN

6 BALCONY FRAMING PLAN

S1.20



PERMIT SET

A NEW DEVELOPMENT:

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50 Highway & Blackwell, Lee's Summit, MO

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S1.21

$3/4'' = 1'-0''$

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

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

3/4" = 1'-0

3/4" = 1'-0"

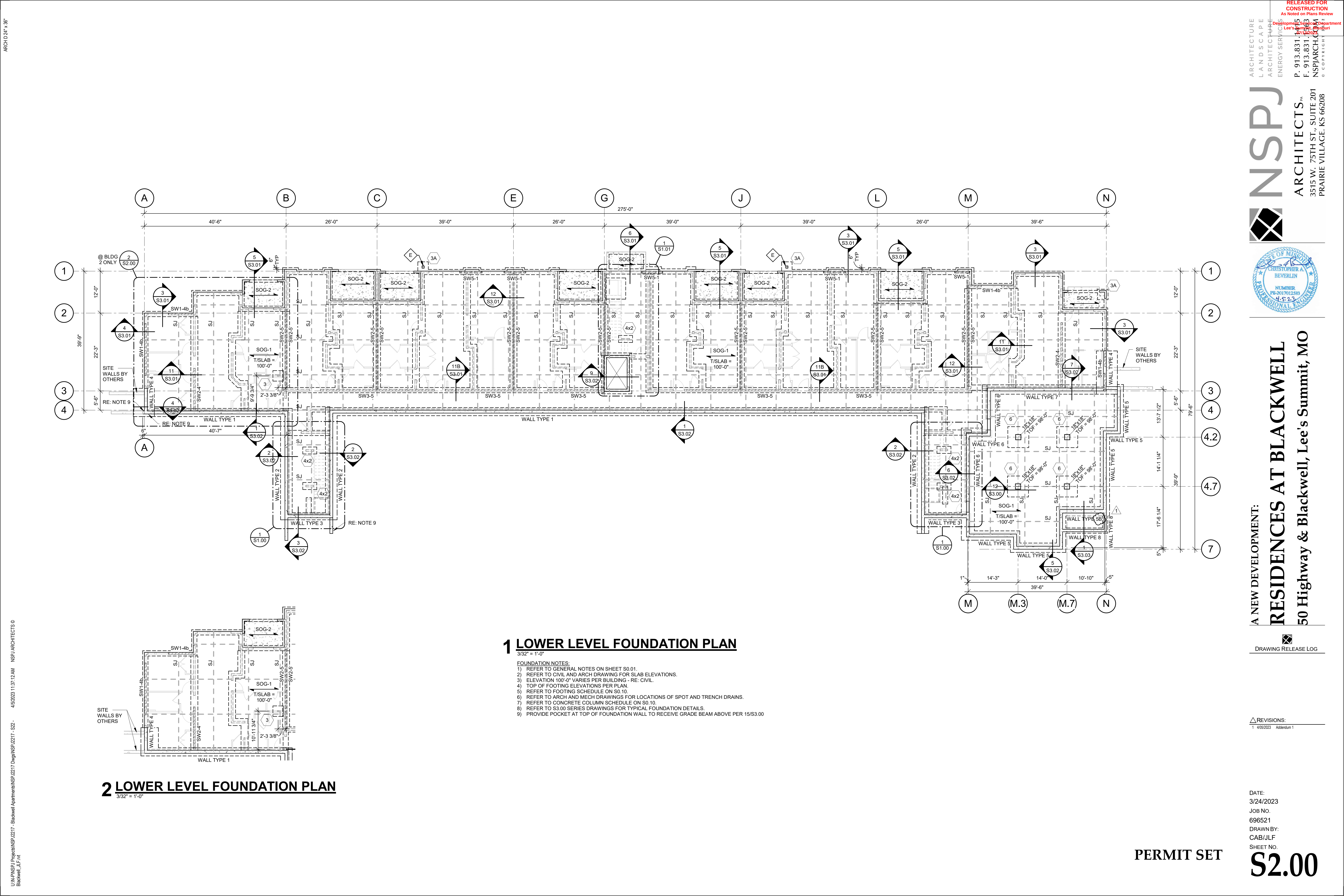
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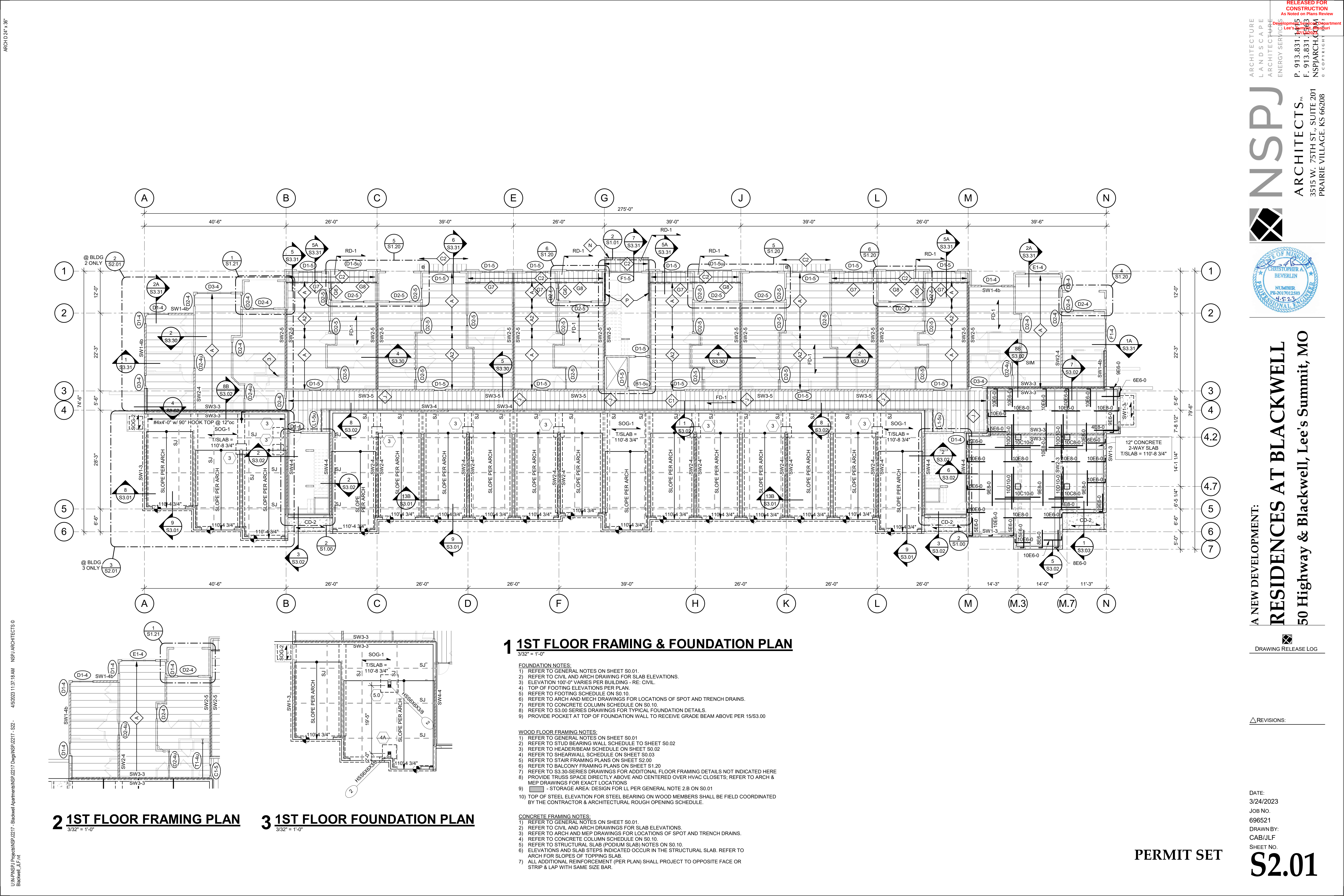
3/4" = 1'-0

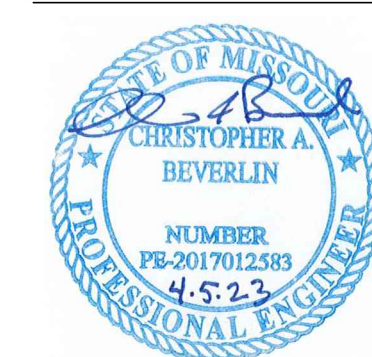
3/4" = 1'-0"

\$1.30

 DRAWING RELEASE LOG







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RESIDENCES AT BLACKWELL**
50 Highway & Blackwell, Lee's Summit, MO

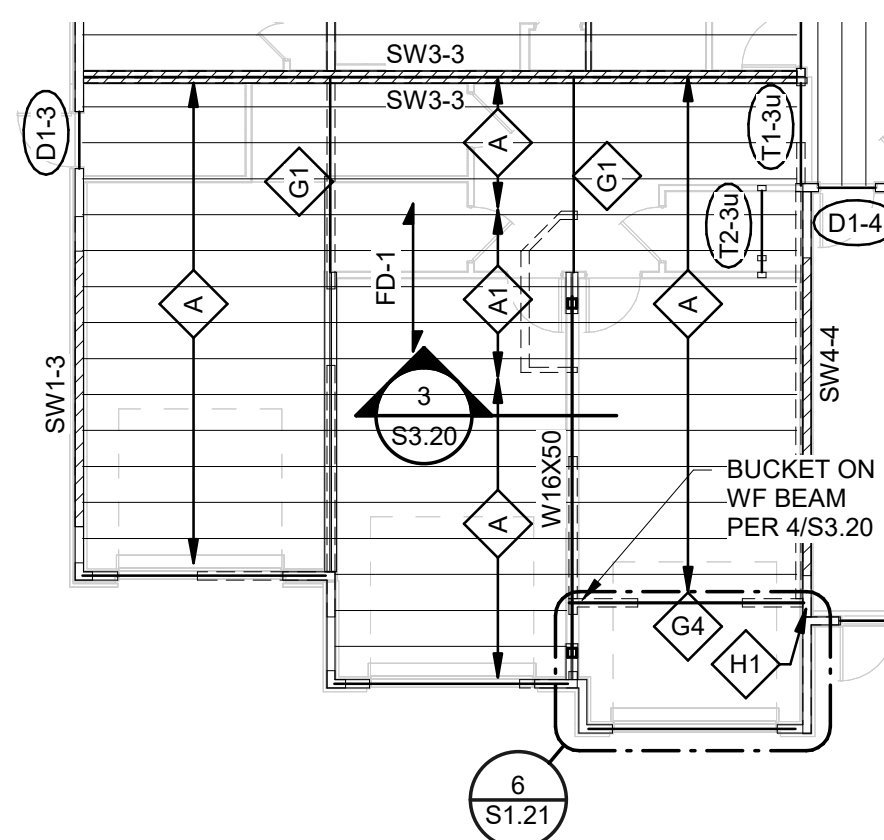


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3/24/2023
JOB NO.
696521
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CAB/JLF
SHEET NO.

PERMIT SET

S2.02



2 2ND FLOOR FRAMING PLAN

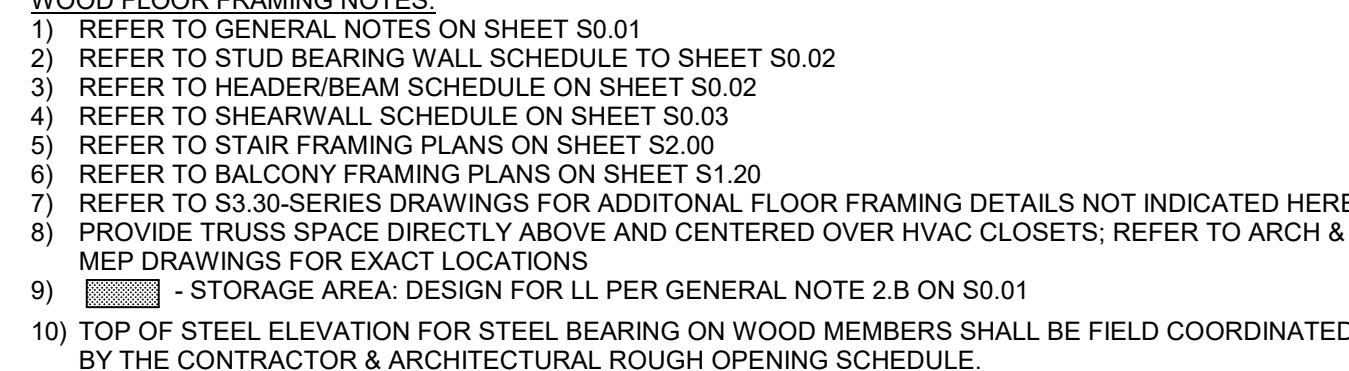
1 2ND FLOOR FRAMING PLAN

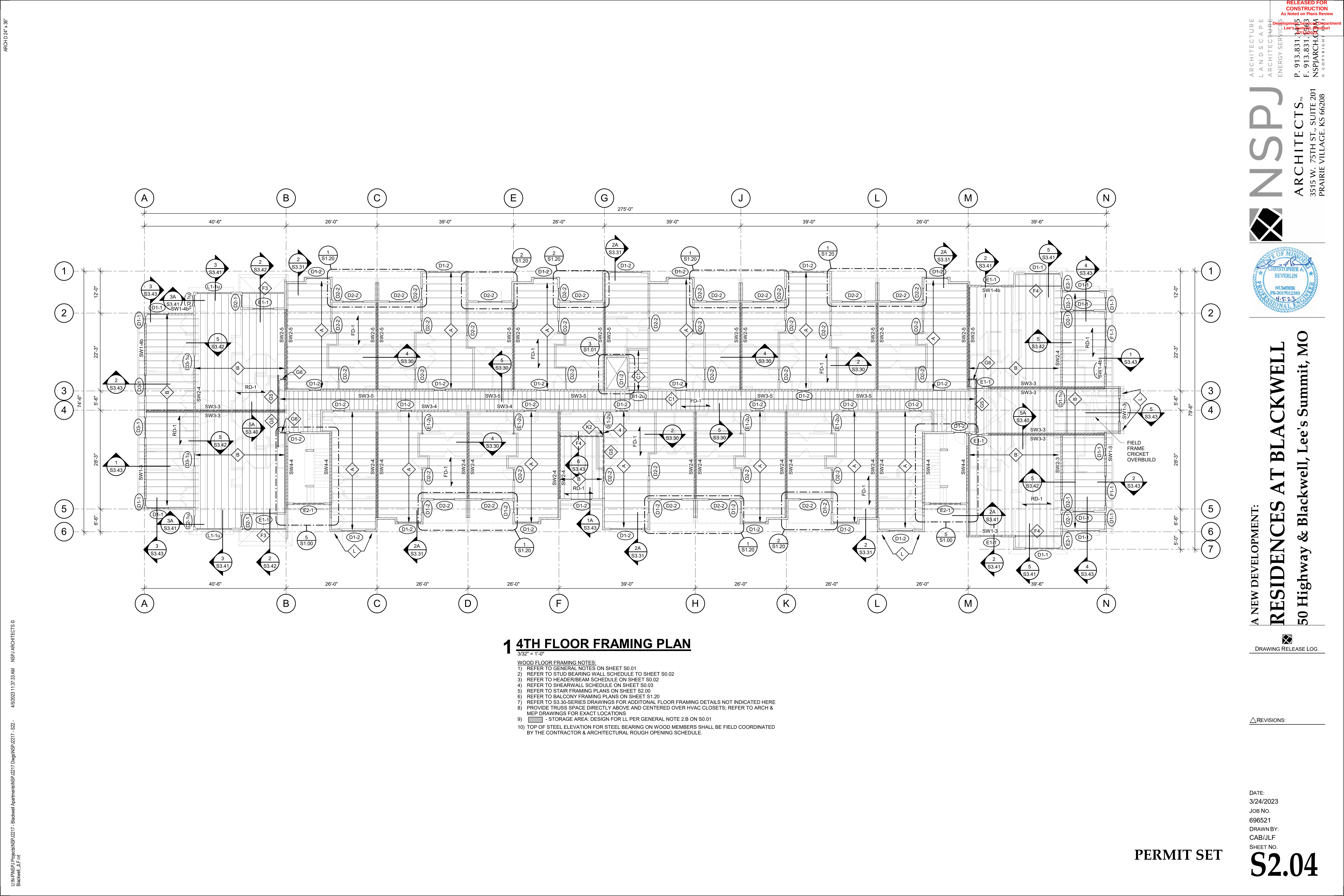
$$3/32'' = 1'-0''$$

WOOD FLOOR FRAMING NOTES:

- 1) REFER TO GENERAL NOTES ON SHEET S0.01
- 2) REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
- 3) REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
- 4) REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
- 5) REFER TO STAIR FRAMING PLANS ON SHEET S2.01
- 6) REFER TO BALCONY FRAMING PLANS ON SHEET S1.20
- 7) REFER TO S3.30-SERIES DRAWINGS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
- 8) PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS. REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
- 9) - STORA AREA DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01
- 10) TOP OF STEEL ELEVATION FOR STEEL BEARING ON WOOD MEMBERS SHALL BE FIELD COORDINATED BY THE CONTRACTOR & ARCHITECTURAL ROUGH OPENING SCHEDULE.

S2.03





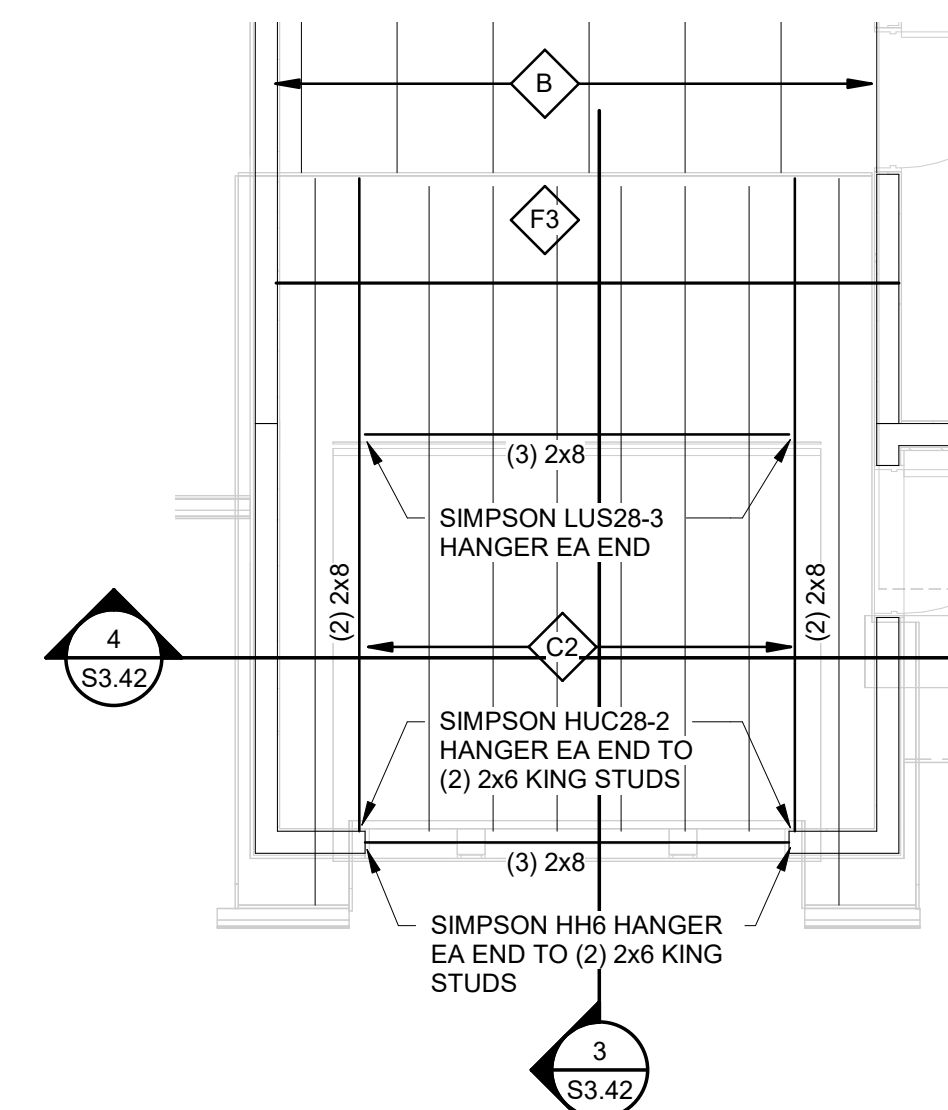
1 4TH FLOOR FRAMING PLAN

3/32" = 1'-0"

WOOD FLOOR FRAMING NOTES:

- 1) REFER TO GENERAL NOTES ON SHEET S0.01
- 2) REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
- 3) REFER TO HEADER/BEAM SCHEDULE ON SHEET S0.02
- 4) REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
- 5) REFER TO STAIR FRAMING PLANS ON SHEET S2.00
- 6) REFER TO BALCONY FRAMING PLANS ON SHEET S1.20
- 7) REFER TO S3.30-SERIES DRAWINGS FOR ADDITIONAL FLOOR FRAMING DETAILS NOT INDICATED HERE
- 8) PROVIDE TRUSS SPACE DIRECTLY ABOVE AND CENTERED OVER HVAC CLOSETS; REFER TO ARCH & MEP DRAWINGS FOR EXACT LOCATIONS
- 9) - STORAGE AREA. DESIGN FOR LL PER GENERAL NOTE 2.B ON S0.01
- 10) TOP OF STEEL ELEVATION FOR STEEL BEARING ON WOOD MEMBERS SHALL BE FIELD COORDINATED BY THE CONTRACTOR & ARCHITECTURAL ROUGH OPENING SCHEDULE.

S2.05



PERMIT SET

- 1) REFER TO GENERAL NOTES ON SHEET SO.01
- 2) REFER TO STUD BEARING WALL SCHEDULE TO SHEET SO.02
- 3) REFER TO HEADER/BEAM SCHEDULE ON SHEET SO.02
- 4) REFER TO SHEARWALL SCHEDULE ON SHEET SO.03
- 5) PROVIDE (3) STUD (MINIMUM) ALIGNED UNDER EACH END OF GIRDER TRUSS (CONTINUOUS FOUNDATION) - FINAL QUANTITY TO MATCH NUMBER OF PLIES OF GIRDER TRUSS. PROVIDE SIMPSON LSTA-SITE HOLDOWN AT EACH END OF GIRDER TRUSS.
- 6) REFER TO S340-SERIES DRAWINGS FOR ADDITIONAL ROOF FRAMING DETAILS NOT INDICATED HERE.
- 7) PROVIDE UNIFORM UPLIFT SCREWS AT UPPER FLOOR PER DETAILS 2, 2A, 3, 3A, 3B, 4 AND 5 ON SHEET SO.20.
- 8) PRE-ENGINEERED TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTURAL DRAWINGS.
- 9) - INDICATES AREA ON ROOF THAT IS REQ'D TO BE DESIGNED FOR MEP EQUIPMENT ZONE PER GENERAL NOTE "2.B" ON SHEET SO.01
- 10) TOP OF STEEL ELEVATION FOR STEEL BEARING ON WOOD MEMBERS SHALL BE FIELD COORDINATED BY THE CONTRACTOR & ARCHITECTURAL ROUGH OPENINGS SCHEDULE.
- 11) PRE-ENGINEERED TRUSSES TO HAVE SLOPING TOP CHORD WITH MINIMUM TRUSS DEPTH OF 24".


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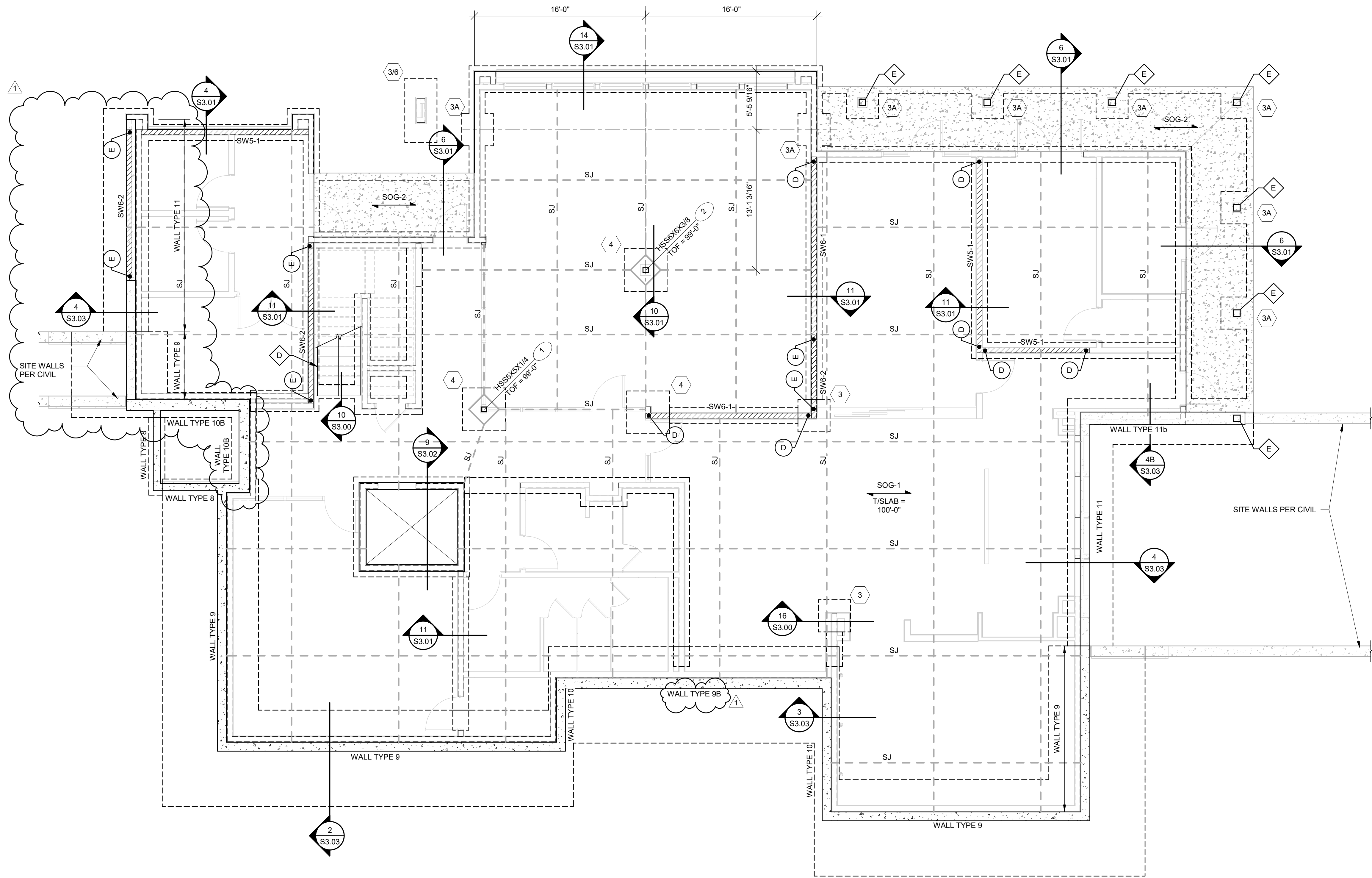
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- 5) ALL EXTERIOR WALLS NOT SPECIFICALLY DESIGNATED AS A STRUCTURAL SHEARWALL SHALL BE SHEATHED w/ 7/16" OSB w/ 8d NAILS @ 6"oc EDGES @ 12"oc FIELD.
- 6) REFER TO DETAILS 15 THRU 15D ON S.O.20 FOR SILL PLATE AND RIM BOARD ATTACHMENT AT EXTENTS OF SHEARWALLS.

ARCHD 24" x 36" 4/5/2023 11:37:44 AM NSPJ ARCHITECTS © U:\N\NSPJ\Projects\NSPJ2217 - Blackwell Apartments\NSPJ2217 Dwg\NSPJ2217 - S2.10 - Blackwell_JLF.rvt



1 CLUBHOUSE FOUNDATION PLAN

- FOUNDATION NOTES:
- 1) REFER TO GENERAL NOTES ON SHEET S0.01.
 - 2) REFER TO CIVIL AND ARCH DRAWING FOR SLAB ELEVATIONS.
 - 3) ELEVATION 100'-0" VARIES PER BUILDING - RE: CIVIL.
 - 4) TOP OF FOOTING ELEVATIONS PER PLAN.
 - 5) REFER TO FOOTING SCHEDULE ON S0.10.
 - 6) REFER TO ARCH AND MECH DRAWINGS FOR LOCATIONS OF SPOT AND TRENCH DRAINS.
 - 7) REFER TO CONCRETE COLUMN SCHEDULE ON S0.10.
 - 8) REFER TO S3.00 SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.
 - 9) PROVIDE POCKET AT TOP OF FOUNDATION WALL TO RECEIVE GRADE BEAM ABOVE PER 15/S3.00

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CLUBHOUSE PLAN NOTES

A

18" DEEP PRE-ENGINEERED FLOOR TRUSSES @ 24"oc MAX

A1

18" DEEP PRE-ENGINEERED FLOOR TRUSSES @ 16"oc MAX

A2

24" DEEP PRE-ENGINEERED ROOF TRUSSES @ 24"oc MAX (SLOPE TOP CHORD PER ARCH)

B1

2x12 @ 16"oc JOISTS

B2

(2) 2x12 @ 12"oc JOISTS

C1

2x10 @ 24"oc JOISTS

C2

(2) 2x10 @ 16"oc JOISTS

C3

(2) 2x10 @ 12"oc JOISTS

C4

2x10 @ 24"oc JOISTS OVERBUILD ABOVE

D

STAIR STRINGERS PER 1/S1.10

E

8x8 WOOD COLUMN ATOP SIMPSON ABU88Z W/ (2) 5/8"x6"Lg SIMPSON TITEN HD SCREW ANCHORS

E1

(3) 2x10 CONT W/ XX POST CAP @ EA COLUMN

E2

(3) 2x8 CONT W/ XX POST CAP @ COLUMN & HUC26-3 HANGER FACEMOUNTED TO SHEATHING W/ (3) 2x6 KING STUDS ALIGNED W/ BEAM

F

STEEL BUCKET PER 4/S3.20

G1

2x8 JOISTS @ 16"oc. TAPER JOIST PER 4/S3.42 W/ SLOPE PER ARCH

G2

2x6 JOISTS @ 16"oc. TAPER JOIST PER 1/S3.44

H

HUCQ612-SDS HANGER

J

UPSET (3) 1 3/4"x11 1/4" BEAM. PROVIDE CONTINUOUS BLOCKING FOR EXTENTS OF EXTERIOR WALL ABOVE BTWN T/B EAM AND B/DECK.

K

(4) 2x8 HIGH & LOW w/ (2) TOP PL & 2x8 BOTT PL w/ 1 JACK / 3 KING EA END w/ (4) 2x8 JACKS AT INTERIOR JAMBS. AT LOW HEADER INTERIOR JAMBS TO HAVE OUTER PLIES INTERRUPTED.

CLUBHOUSE HEADERS/BEAMS SCHEDULE

MARK	HEADER	JAMB TYPE #	NOTES
D1	(3) 2x8	1 JACK / 1 KING	
D2	(3) 2x8	1 JACK / 2 KING	
E1	(3) 2x10	1 JACK / 1 KING	
E2	(3) 2x10	1 JACK / 2 KING	
F1	(3) 2x12	1 JACK / 2 KING	
F2	(3) 2x12	2 JACK / 2 KING	
J1	(3) 1 3/4"x7 1/8" LVL	2 JACK / 2 KING	
N1	(3) 1 3/4"x11 1/4" LVL		
Q1	(3) 1 3/4"x14" LVL		HGU5.50-SDS (H=14") HANGER @ BEAM CONNECTION
S1	(3) 1 3/4"x16" LVL	3 KING	
T1	(2) 1 3/4"x18" LVL	3 KING	
U1	(3) 1 3/4"x18" LVL	3 KING	
V1	(4) 1 3/4"x18" LVL	3 KING	
X1	(5) 1 3/4"x18" LVL	4 KING @ WALL / SIMPSON EGG HANGER TO Y1 BEAM	ATTACH PLIES TOGETHER w/ 3 ROWS OF 1/4"x8" SDS SCREWS @ 12"oc FROM EA SIDE - MATCH EDGE DISTANCE PER 5A/S0.02
Y1	(3) 1 3/4"x24" LVL	4 KING	

NOTES:

1. JAMB STUDS SHALL MATCH SIZE & GRADE OF WALL STUDS U.N.O.

2. WHERE BEAM IS NOTED "-u", ALL JAMB STUDS NOTED WILL EXTEND TO DOUBLE TOP PLATE.

3. ALL EXTERIOR LUMBER TO BE TREATED AGAINST MOISTURE. REFER TO NOTE 12.T ON SHEET S0.01 FOR FIRE RETARDANT TREATED HEADER AND STUD REQUIREMENTS

4. PROVIDE SQUASH BLOCKS AT TRUSSES & BLOCKING FRAMING WHERE JAMBS OR STUD PACKS ARE DISCONT AND IN TRUSS CAVITY. QUANTITY TO MATCH JAMB OR STUD PACK ABOVE.

5. PROVIDE 1/2" PLYWOOD SPACER PLATES AT INTERIOR HEADERS CONSTRUCTED WITH 2x LUMBER.

6. AT CONTRACTOR'S OPTION, PROVIDE GLULAM IN LIEU OF PSL OF EQUAL OR GREATER STRENGTH.

7. REFER TO DETAIL 4/S0.02 FOR MULTIPLY MEMBER CONNECTION REQUIREMENTS.

8. ATTACH JAMB & KING STUDS TOGETHER PER CONNECTION TYPE 24 ON NAILING SCHEDULE ON S0.01.

1 CLUBHOUSE ROOF FRAMING PLAN

3/16" = 1'-0"

WOOD ROOF FRAMING NOTES:
1) REFER TO GENERAL NOTES ON SHEET S0.01
2) REFER TO STUD BEARING WALL SCHEDULE TO SHEET S0.02
3) REFER TO HEADER/B EAM SCHEDULE ON SHEET S0.02
4) REFER TO SHEARWALL SCHEDULE ON SHEET S0.03
5) PROVIDE (3) STUD (MINIMUM) ALIGNED UNDER EACH END OF GIRDER TRUSS (CONTINUOUS FOUNDATION) - FINAL QUANTITY TO MATCH NUMBER OF PLIES OF GIRDER TRUSS. PROVIDE SIMPSON LSTA-STYLE HOLDOWN AT EACH END OF GIRDER TRUSS
6) REFER TO S3.40-SERIES DRAWINGS FOR ADDITIONAL ROOF FRAMING DETAILS NOT INDICATED HERE.
7) PROVIDE UNIFORM UPLIFT SCREWS AT UPPER FLOOR PER DETAILS 2, 2A, 3, 3A, 3B, 4 AND 5 ON SHEET S0.20.
8) PRE-ENGINEERED TRUSSES TO HAVE A MINIMUM DEPTH OF 24". SLOPE TOP CHORD PER ARCHITECTURAL DRAWINGS.
9) [Hatched Box] - INDICATES AREA ON ROOF THAT IS REQ'D TO BE DESIGNED FOR MEP EQUIPMENT ZONE PER GENERAL NOTE "2.B" ON SHEET S0.01
10) TOP OF STEEL ELEVATION FOR STEEL BEARING ON WOOD MEMBERS SHALL BE FIELD COORDINATED BY THE CONTRACTOR & ARCHITECTURAL ROUGH OPENING SCHEDULE.
11) PRE-ENG TRUSSES TO HAVE SLOPING TOP CHORD WITH MINIMUM TRUSS DEPTH OF 24".

2 CLUBHOUSE ELEVATOR ROOF FRAMING PLAN

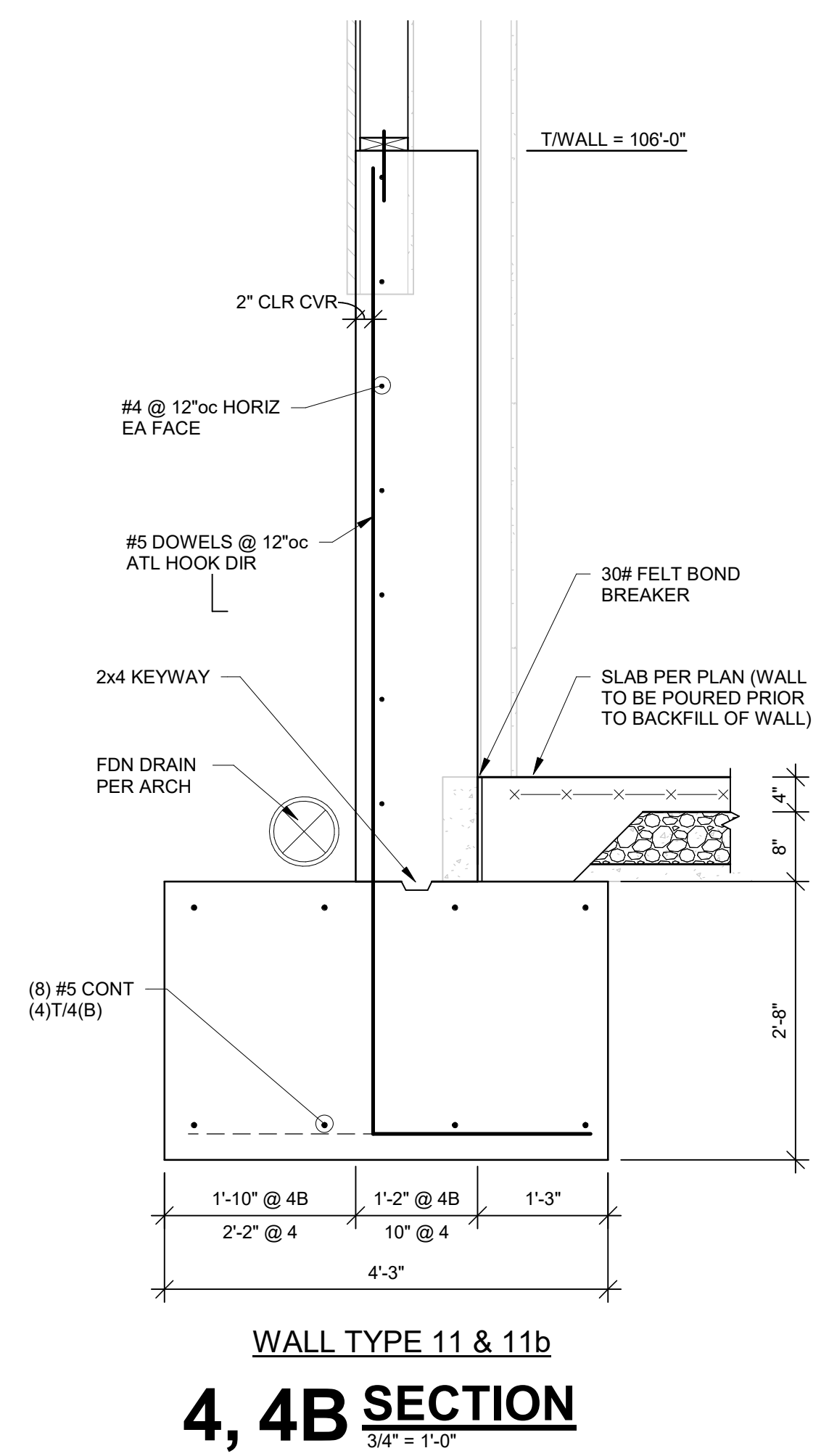
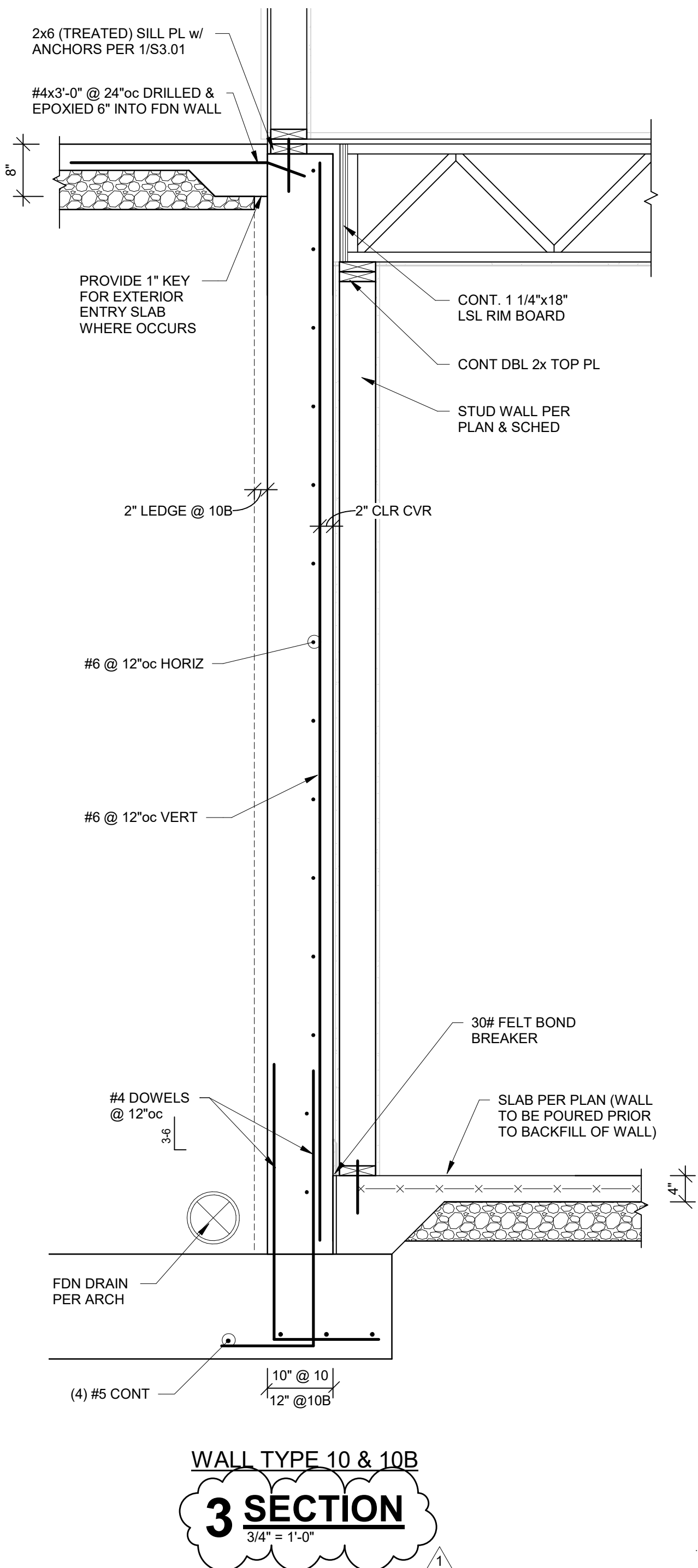
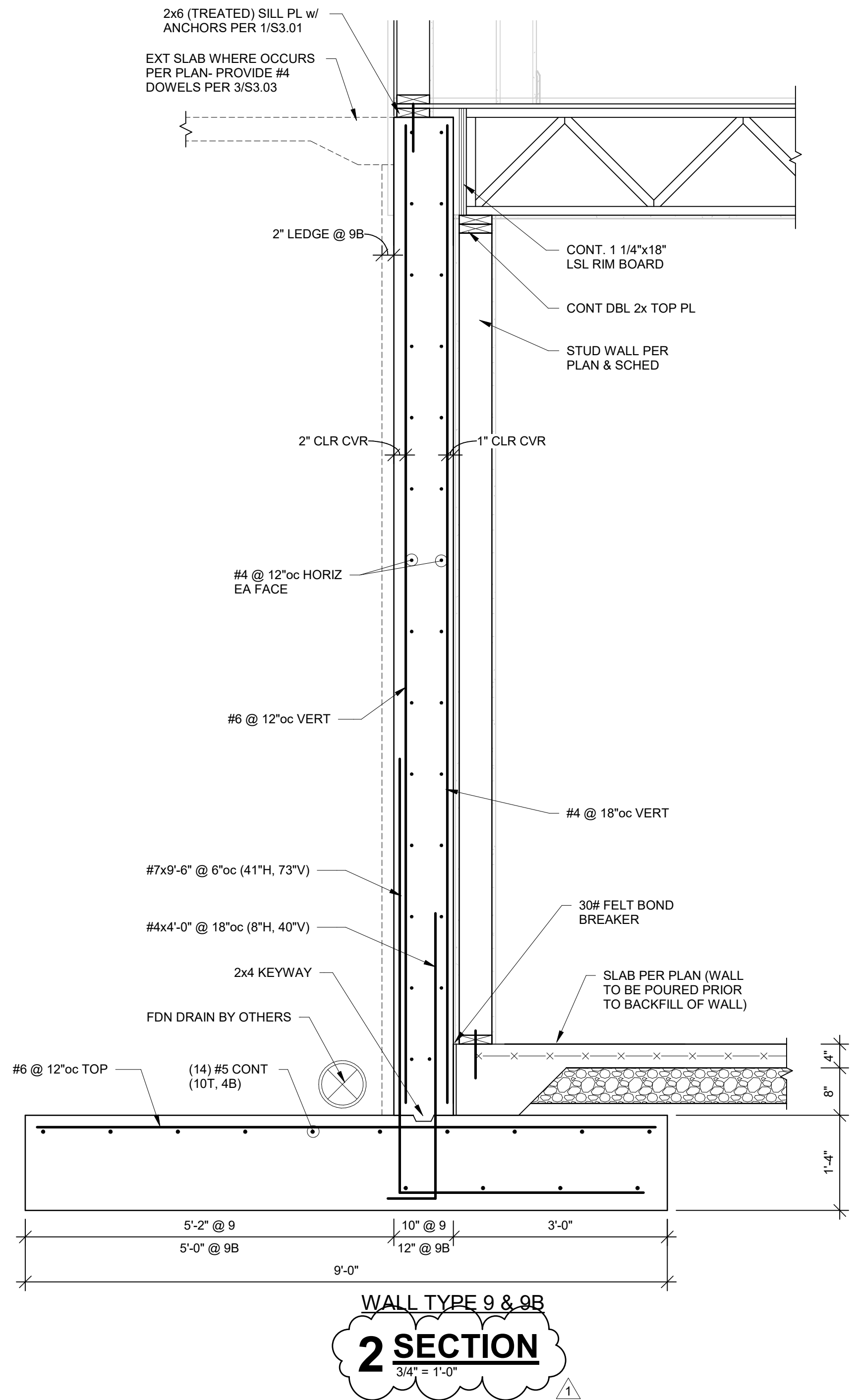
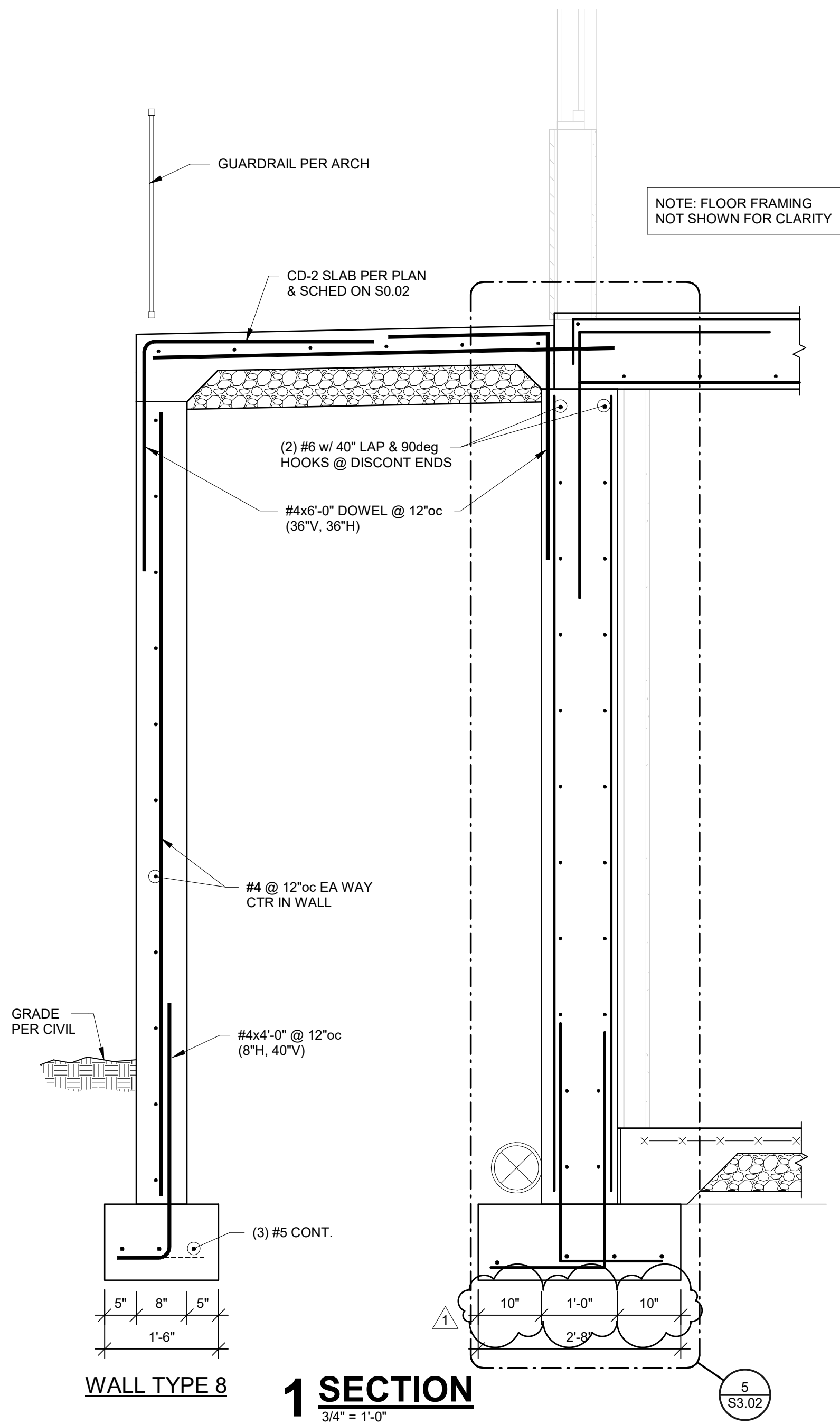
3/16" = 1'-0"

CLUBHOUSE ELEVATOR ROOF FRAMING PLAN

3/16" = 1'-0"

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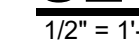
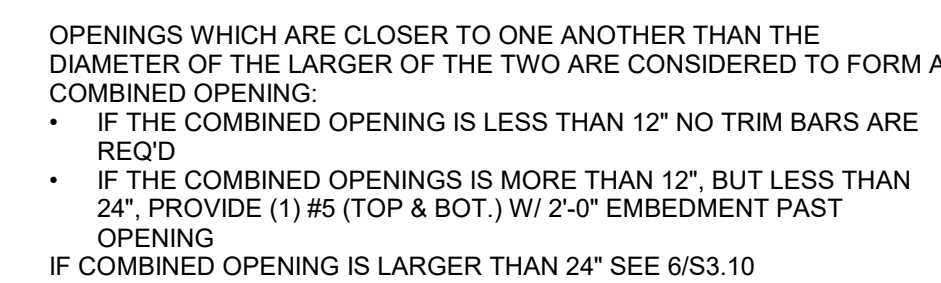
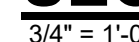
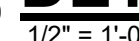
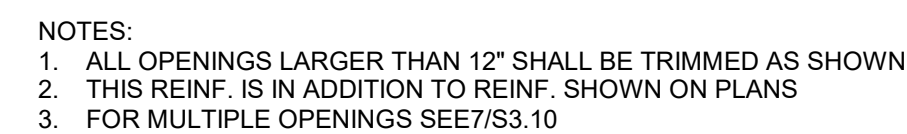
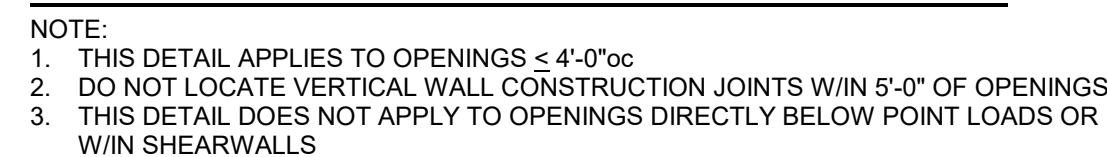
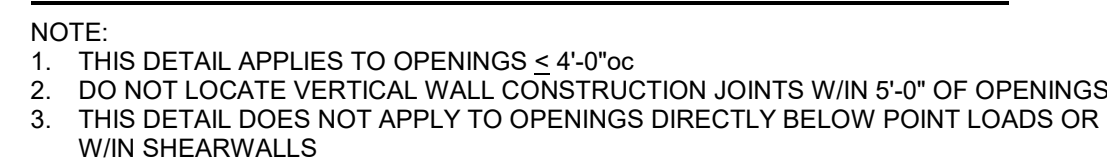
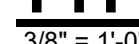
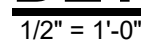
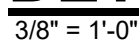
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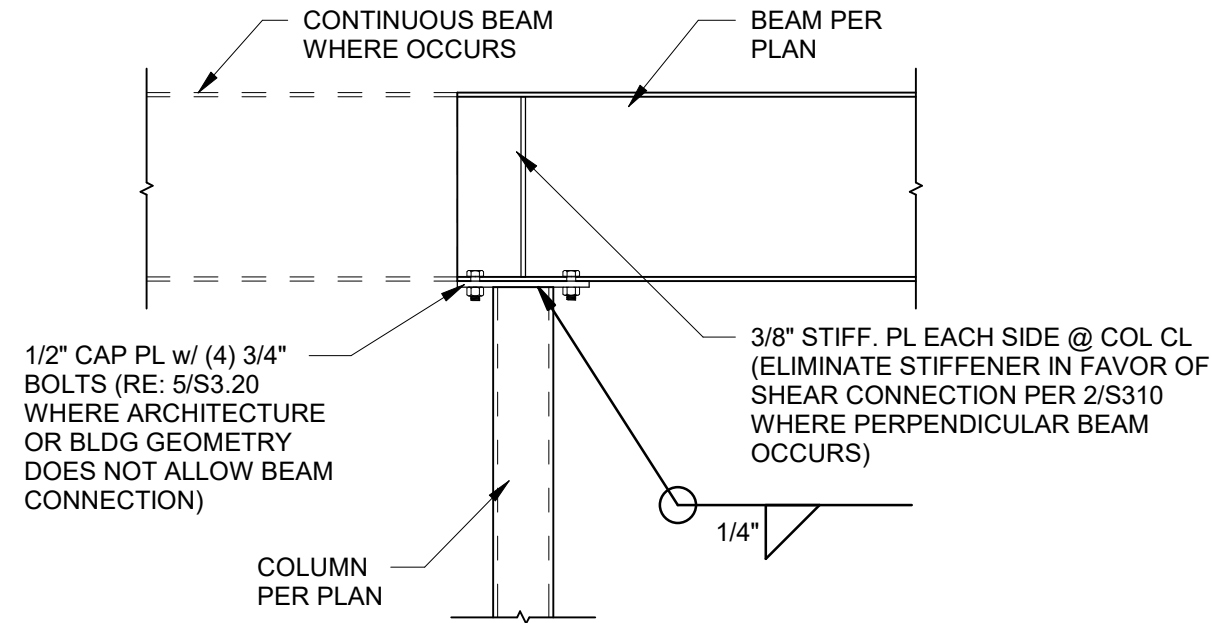
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S3.03



S3.10

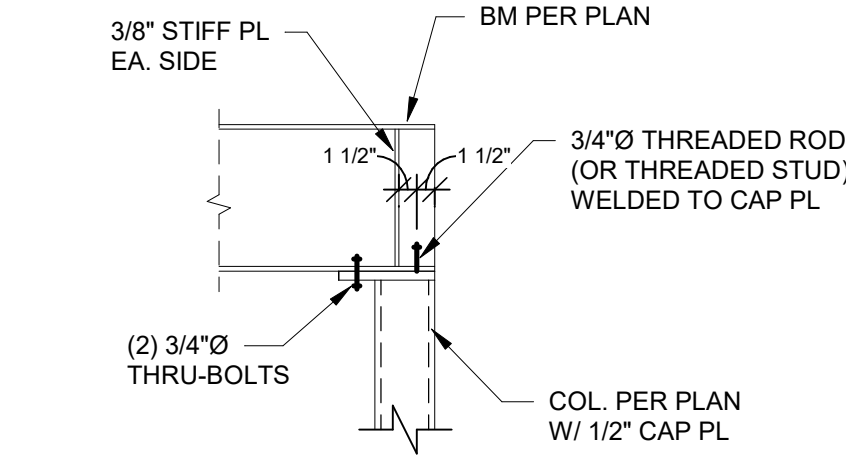
ARCH D 24" x 36"



TYPICAL BEAM TO COLUMN CONNECTION

1 DETAIL

3/4" = 1'-0"

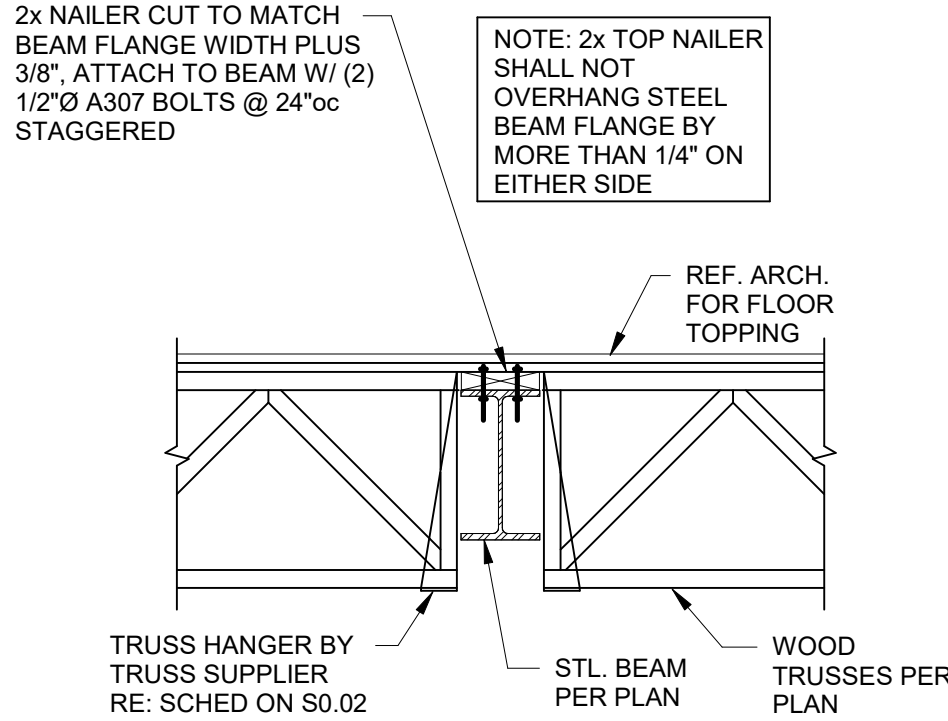


TYPICAL BEAM TO COLUMN CONNECTION @ DISCONTINUOUS BEAMS

2 SECTION

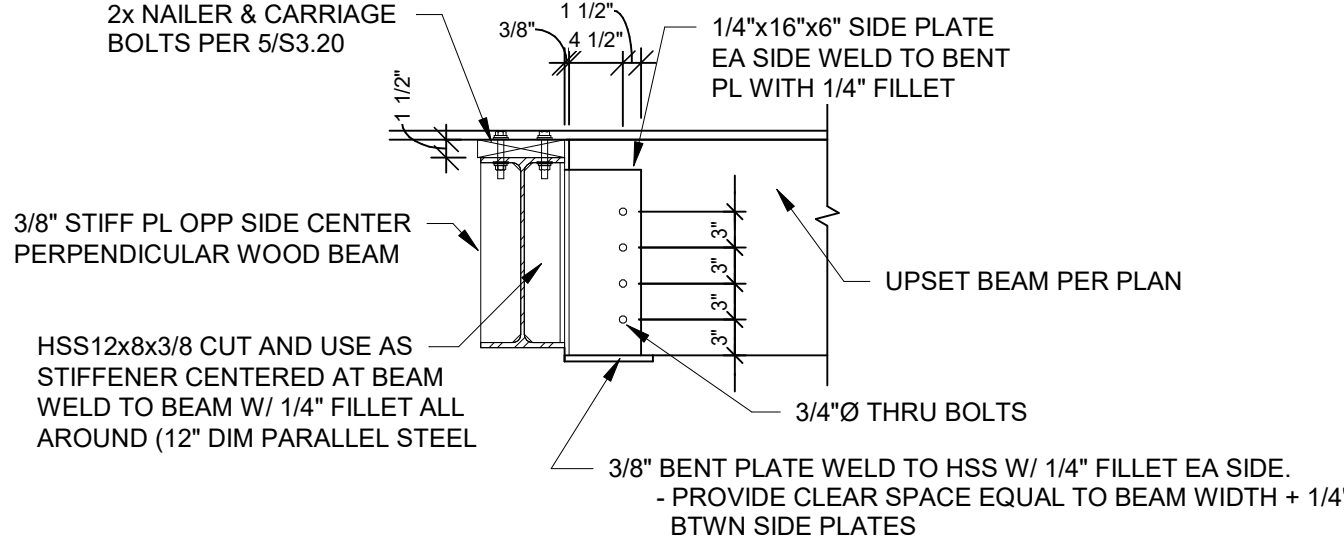
3/4" = 1'-0"

NOTE: WOOD FRAMING NOT SHOWN FOR CLARITY



3 SECTION

3/4" = 1'-0"

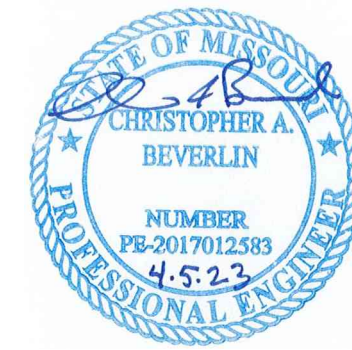


4 SECTION

3/4" = 1'-0"

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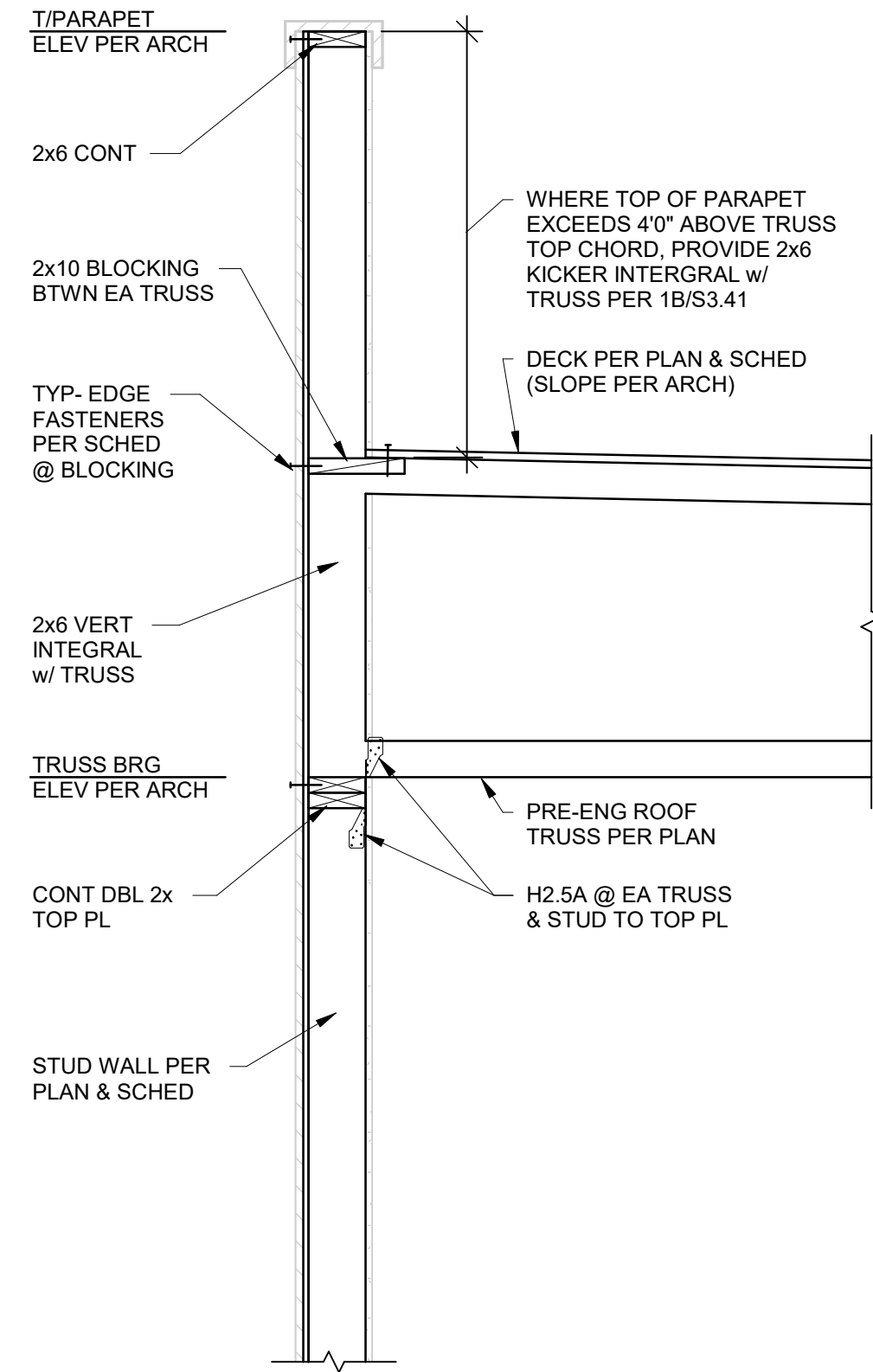
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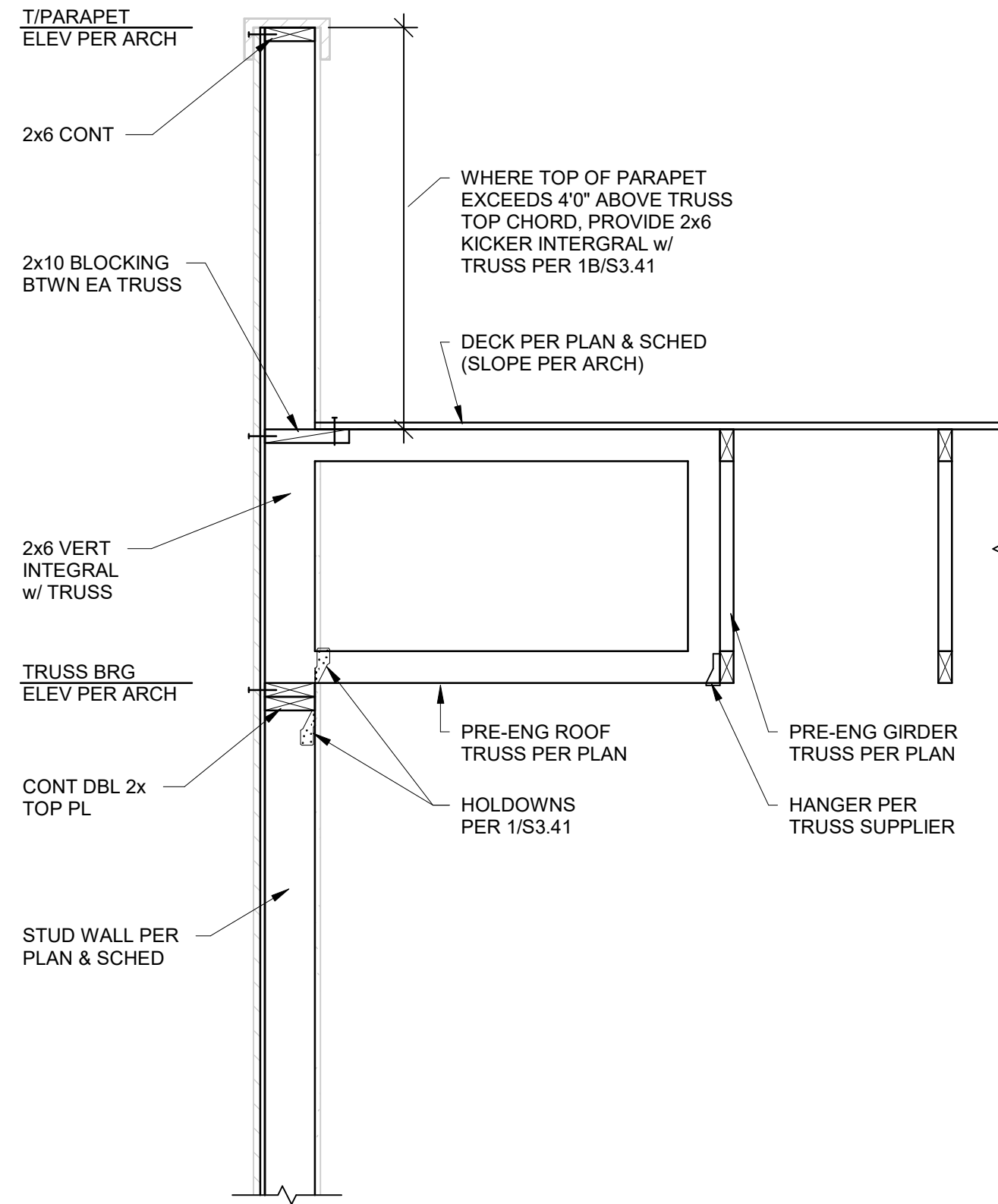
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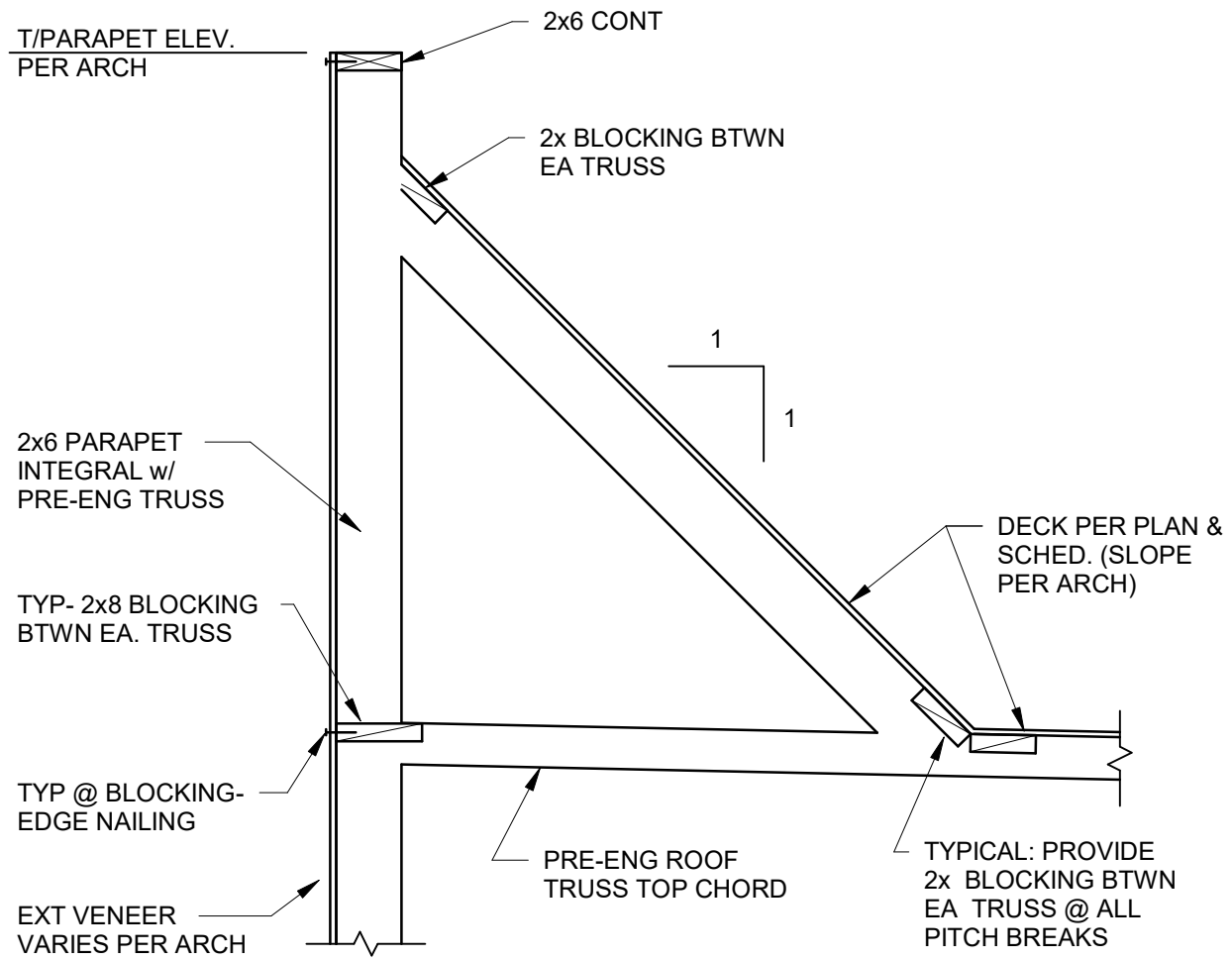




1 SECTION
3/4" = 1'-0"

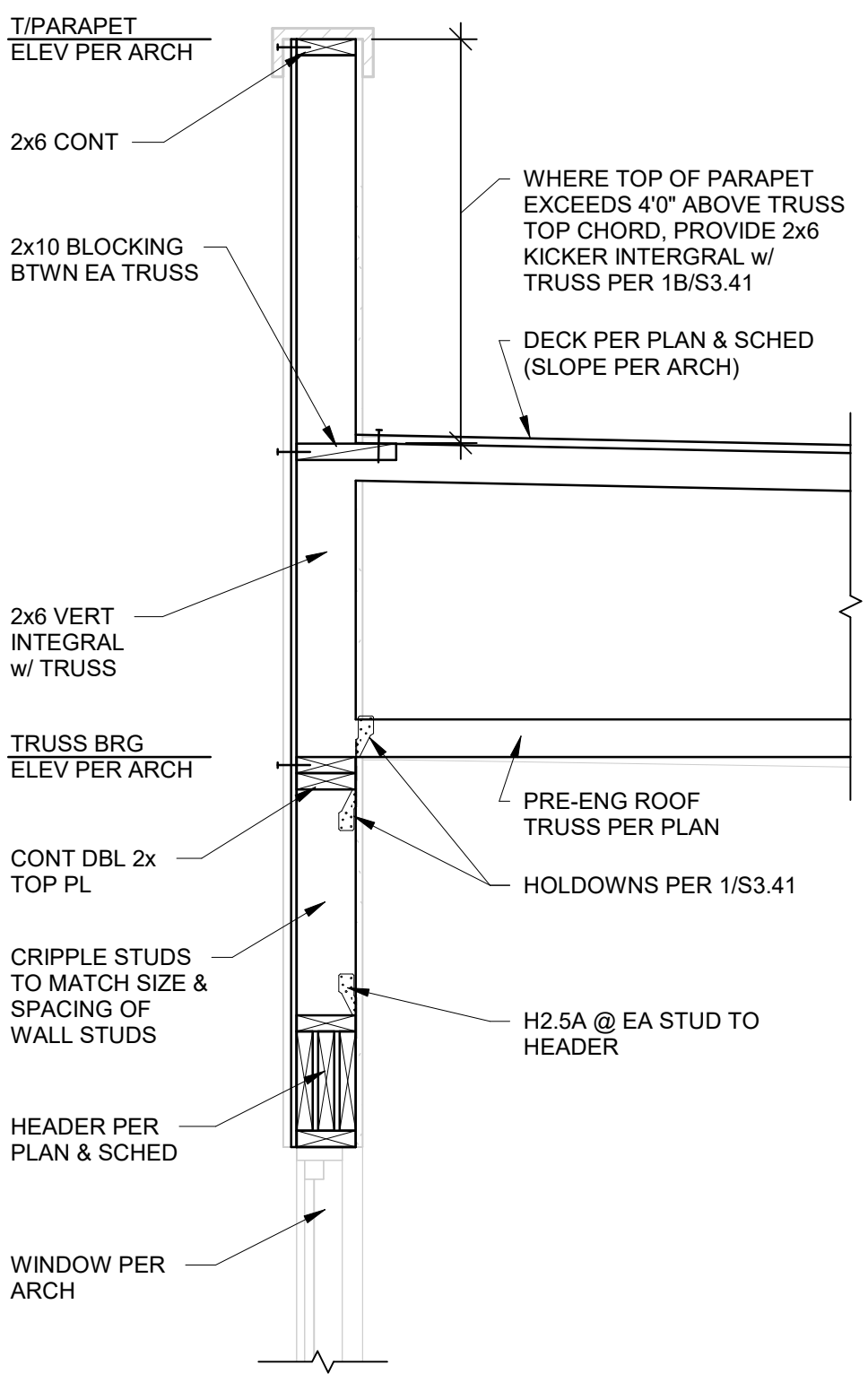


1A SECTION
3/4" = 1'-0"

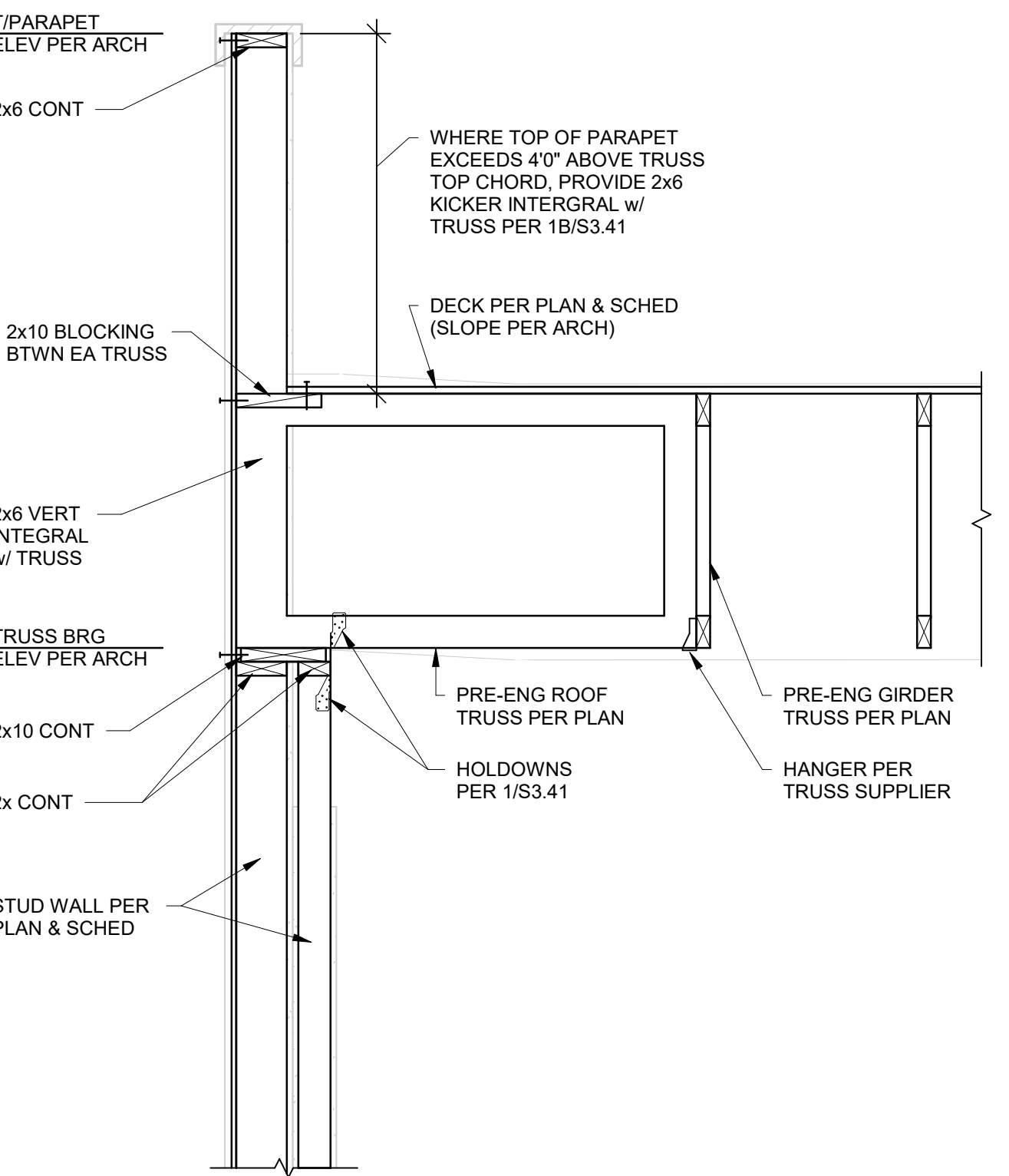


**TYPICAL PARAPET KICKER
WHERE T/Parapet EXCEEDS
4'-0" ABOVE T/TOP CHORD**

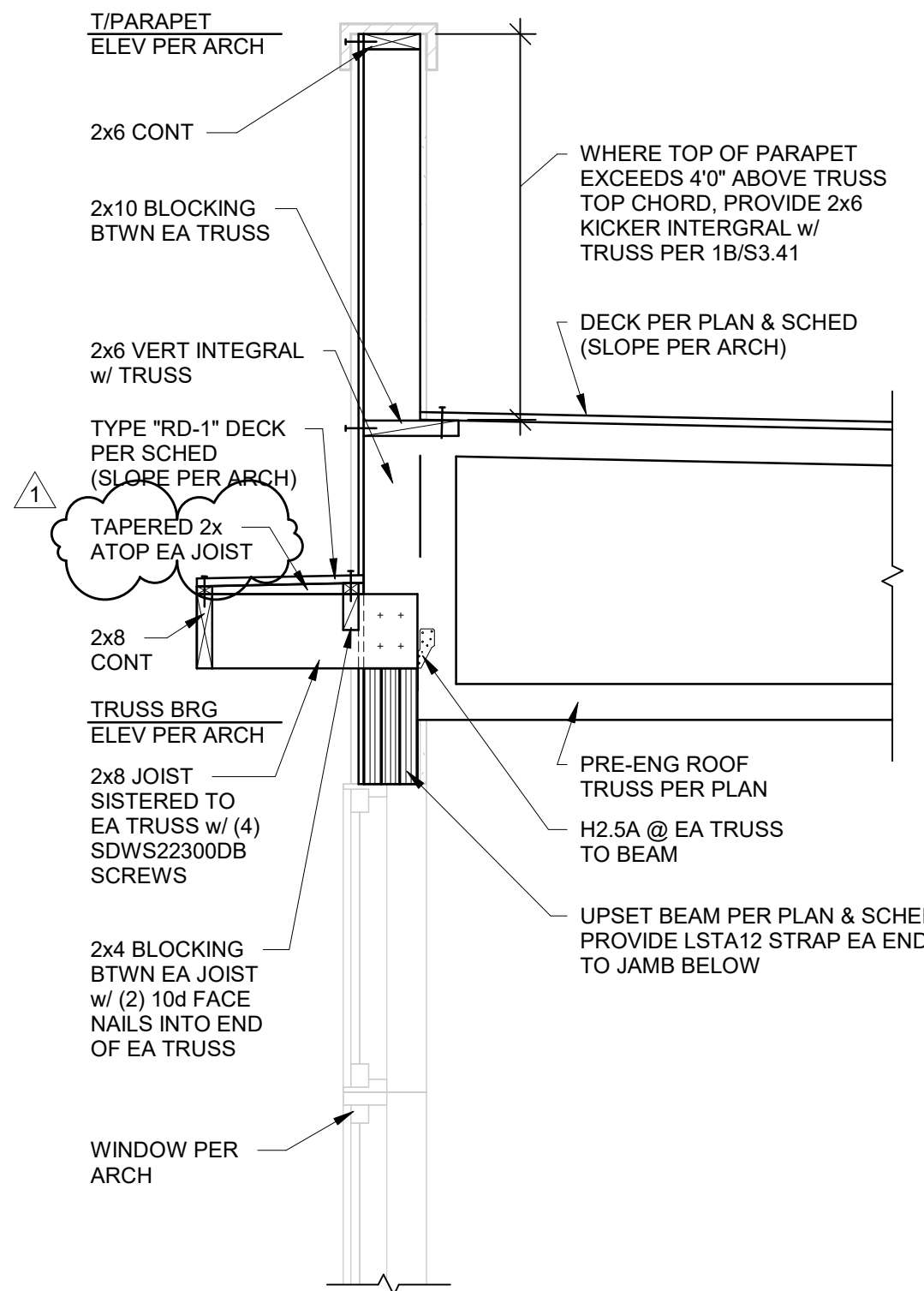
1B SECTION
3/4" = 1'-0"



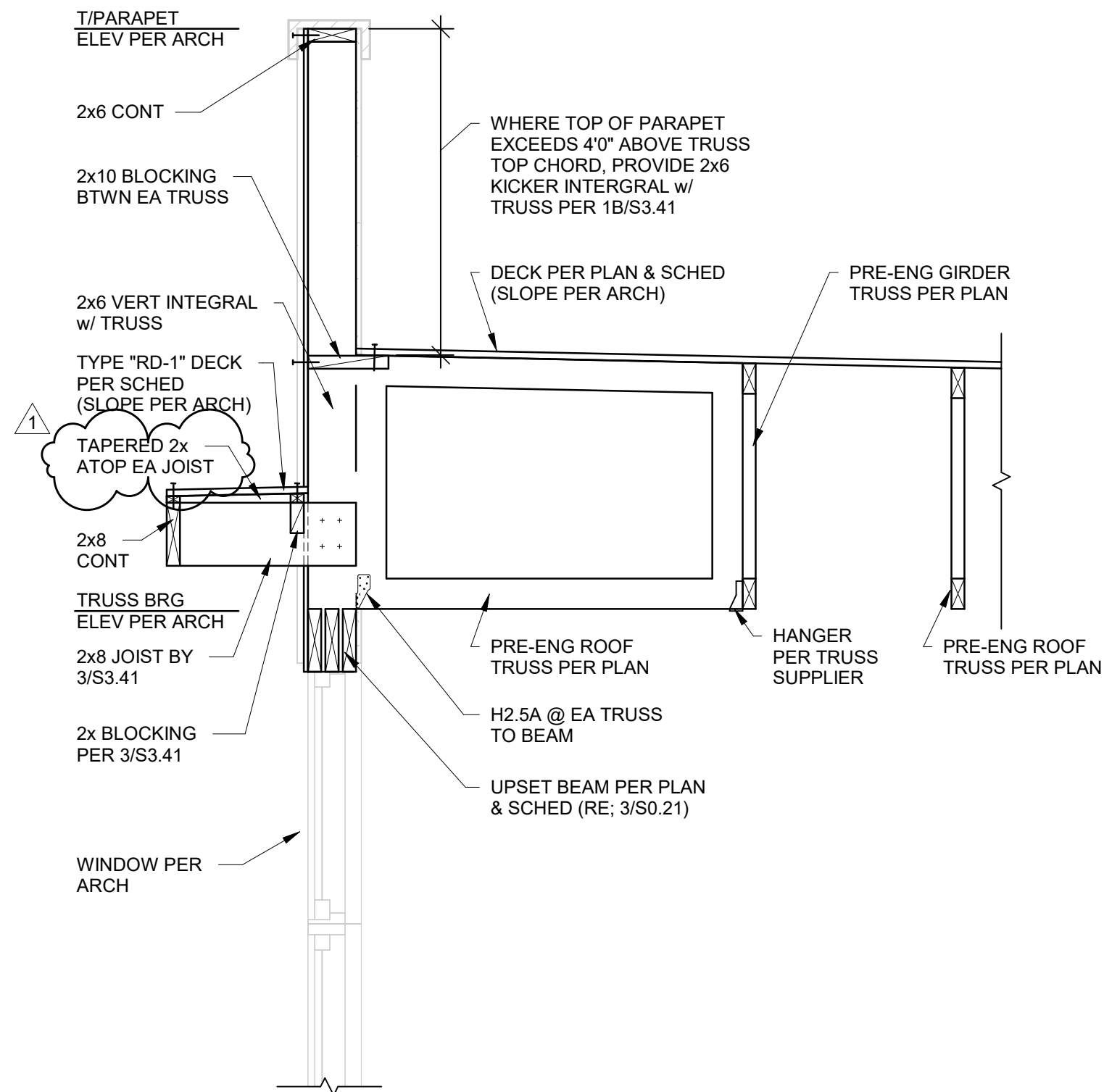
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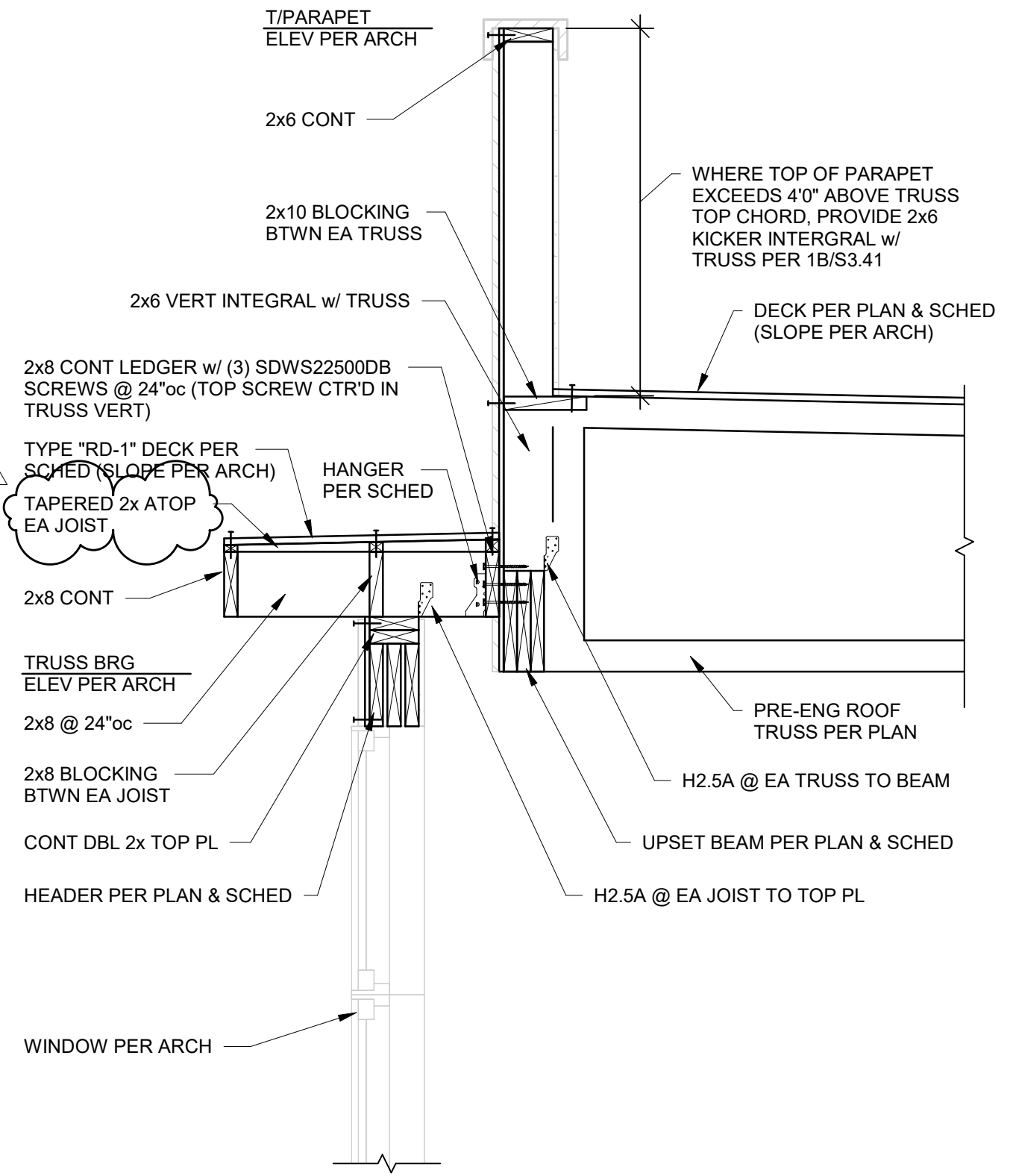
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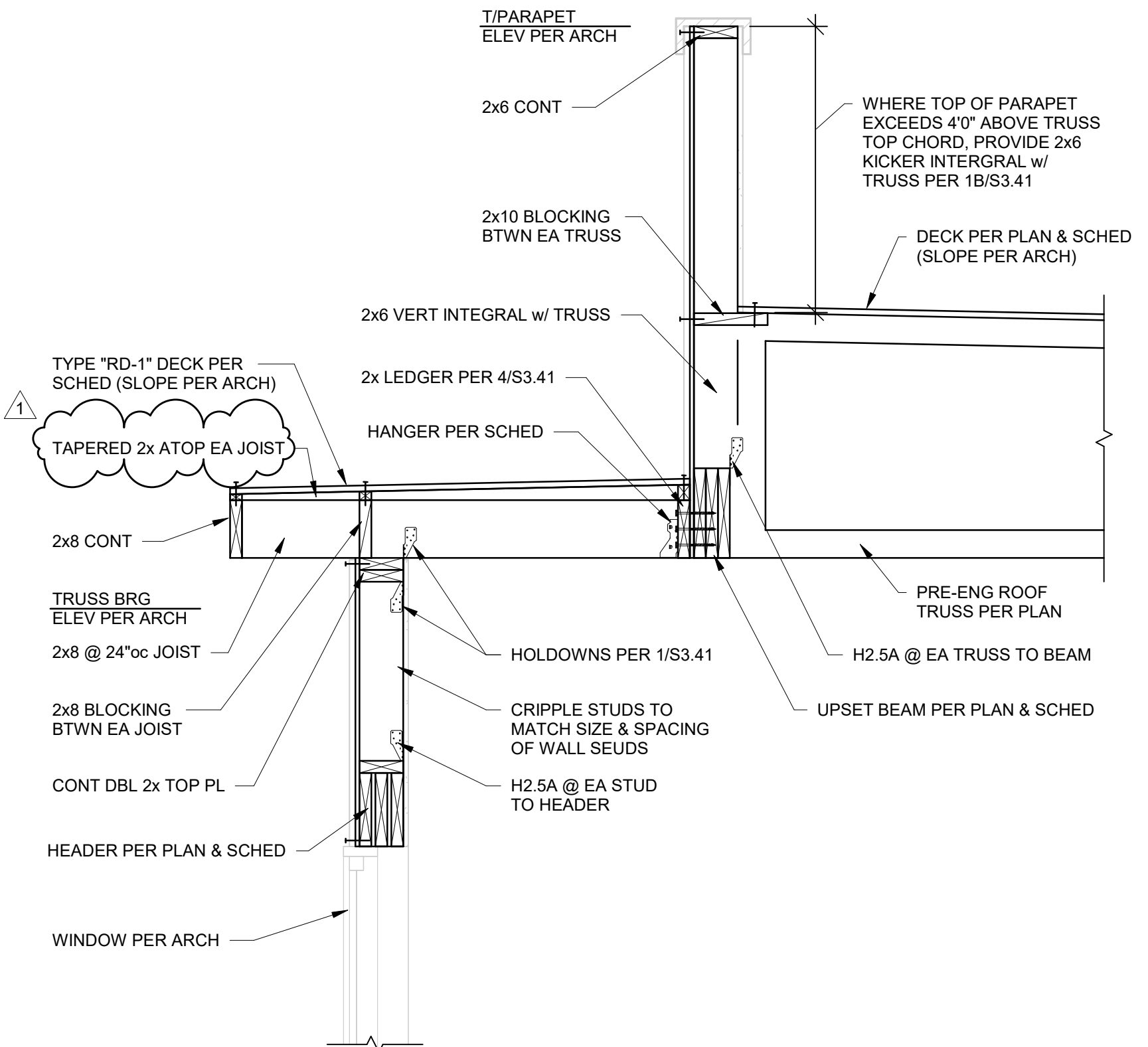
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3/4" = 1'-0"



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



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



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

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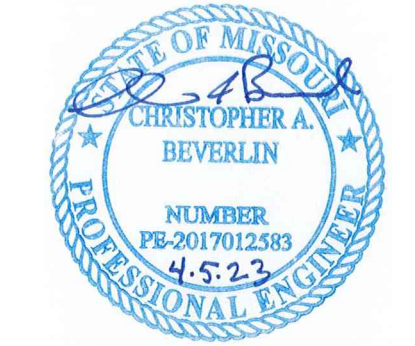
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1 SECTION
3/4" = 1'-0"

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

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

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

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

1. T/ PARAPET ELEV PER ARCH
2x6 CONT
WHERE T/ PARAPET EXCEEDS 4'-0" ABOVE TOP CHORD, PROVIDE 2x6 KICKER INTEGRAL W/ TRUSS PER 18/3.41
DECK PER PLAN & SCHED (SLOPE PER ARCH)
2x10 BLOCKING BTWN EA TRUSS
2x6 VERT INTEGRAL w/ TRUSS
HOLDOWNS PER 1/3.41
TRUSS BRG ELEV PER ARCH
CONT DBL 2x TOP PL TYPE "RD-1" DECK PER SCHED (SLOPE PER ARCH) TAPERED 2x ATOP EA JOIST
2x8 CONT
2x BLOCKING BTWN EA TRUSS
(2) TIES PER 2/3.42
2x8 @ 24"oc JOISTS
CONT 2x8 LEDGER w/ (3) SDWS22500DB SCREWS @ 16"oc (CTRD ON EA WALL/CRIPPLE STUD)
H2.5A @ EA STUD TO HEADER
PRE-ENG ROOF TRUSS PER PLAN
HOLDOWNS PER 1/3.41
CONT DBL 2x TOP PL
CRIPPLE STUDS TO MATCH SIZE & SPACING OF WALL STUDS
H2.5A @ EA STUD TO HEADER
HEADER PER PLAN & SCHED
WINDOW PER ARCH

1. T/ PARAPET ELEV PER ARCH
2x6 CONT
WHERE T/ PARAPET EXCEEDS 4'-0" ABOVE TOP CHORD, PROVIDE 2x6 KICKER INTEGRAL W/ TRUSS PER 18/3.41
DECK PER PLAN & SCHED (SLOPE PER ARCH)
2x10 BLOCKING BTWN EA TRUSS
2x6 VERT INTEGRAL w/ TRUSS
TRUSS BRG ELEV PER ARCH
H2.5A @ EA TRUSS TO BEAM
PRE-ENG ROOF TRUSS PER PLAN
HOLDOWNS PER 1/3.41
CONT DBL 2x TOP PL
CRIPPLE STUDS TO MATCH SIZE & SPACING OF WALL STUDS
H2.5A @ EA STUD TO HEADER
HEADER PER PLAN & SCHED
WINDOW PER ARCH
TAPERED 2x ATOP EA JOIST
TYPE "RD-1" DECK PER SCHED (SLOPE PER ARCH)
2x8 CONT
2x8 @ 24"oc JOISTS
2x BLOCKING BTWN EA TRUSS
HANGER PER SCHED ON S0.02
(2) H2.5A @ EA JOIST TO BEAM (ONE ON EA SIDE OF BM & ALT SIDES OF JOIST)
2x LEDGER PER 1/3.42

4 S3.42
HANGER PER PLAN
BEAM PER PLAN & SCHED
DECK PER PLAN & SCHED (SLOPE PER ARCH)
JOIST PER PLAN & SCHED
JOIST BEYOND PER PLAN
H2.5A @ EA JOIST & STUD TO TOP PL
DBL 2x CONT TOP PL
DECK PER PLAN & SCHED (SLOPE PER ARCH)
2x BLOCKING BTWN EA TRUSS
PRE-ENG ROOF TRUSS PER PLAN
UPSET BEAM PER PLAN & SCHED
H2.5A @ STUD TO BEAM
2x6 @ 16"oc CRIPPLE WALL
HANGER EA END PER PLAN
BIRDSMOUTH CUT JOIST PER PLAN
DECK PER PLAN & SCHED (SLOPE PER ARCH)
RIPPED 2x10 CONT

DECK PER PLAN & SCHED (SLOPE PER ARCH)
2x4 @ 16"oc CRIPPLE STUDS
JOIST PER PLAN
2x6 CONT SUB-FASCIA
CONT DBL 2x TOP PL
STUD WALL PER PLAN & SCHED
DORMER JOISTS PER PLAN
CONT 2x4 w/ (3) 0.131"x3" FACE NAILS TO EA STUD
DBL JOIST PER PLAN

2x8 TOP CHORD EXTENSION
2x8 CONT
2x BLOCKING BTWN EA TRUSS
DECK PER PLAN & SCHED (SLOPE PER ARCH)
2x6 CONT w/ 10d NAILS @ 12"oc TO BLOCKING
DECK PER PLAN & SCHED (SLOPE PER ARCH)
2x BLOCKING BTWN EA TRUSS
PRE-ENG ROOF TRUSS PER PLAN
CONT DBL 2x TOP PL
STUD WALL PER PLAN & SCHED
HOLDOWNS PER 1/3.41
PRE-ENG ROOF TRUSS PER PLAN

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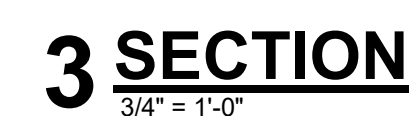
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ARCHD 24" x 36"

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STATE OF MISSOURI
CHRISTOPHER A. BEVERLIN
NUMBER
PB-2017012383
4-5-23
PROFESSIONAL ENGINEER

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

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

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

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

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

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

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

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

DECK PER PLAN & SCHED
(SLOPE PER ARCH)

TYPICAL: EDGE NAILING
@ ROOF BLOCKING

2x BLOCKING
BTWN EA TRUSS

2x CONT

JOIST PER PLAN

H2.5A @ EA JOIST
& STUD TO TOP PL

CONT DBL 2x
TOP PL

STUD WALL PER
PLAN & SCHED

TYPICAL: EDGE NAILING
@ ROOF BLOCKING

2x BLOCKING
BTWN EA TRUSS

2x CONT

JOIST PER PLAN

DECK PER PLAN & SCHED
(SLOPE PER ARCH)

HOLDOWNS PER
1/S3.42

CONT DBL 2x
TOP PL

STUD WALL PER
PLAN & SCHED

TYPICAL: EDGE NAILING @ ROOF BLOCKING

2x BLOCKING BTWN EA TRUSS

DECK PER PLAN & SCHED
(SLOPE PER ARCH)

2x CONT

JOIST PER PLAN

HOLDOWN PER 1/S3.42

CONT DBL 2x TOP PL

WINDOW PER ARCH

SILL PER 1A/S3.31

STUD WALL PER
PLAN & SCHED

DECK PER PLAN & SCHED
(SLOPE PER ARCH)

2x BLOCKING BTWN EA TRUSS

DECK PER PLAN & SCHED
(SLOPE PER ARCH)

2x CONT

JOIST PER PLAN

HOLDOWN PER 1/S3.42

CONT DBL 2x TOP PL

WINDOW PER ARCH

LSTA-STYLE
STRAP @ EA
JOIST

2x BLOCKING
BTWN EA TRUSS

TYPICAL: EDGE NAILING @ ROOF BLOCKING

2x BLOCKING BTWN EA TRUSS

DECK PER PLAN & SCHED
(SLOPE PER ARCH)

2x CONT

JOIST PER PLAN

HOLDOWN PER 1/S3.42

CONT DBL 2x TOP PL

WINDOW PER ARCH

DECK PER PLAN & SCHED
(SLOPE PER ARCH)

TYPICAL: EDGE NAILING
@ ROOF BLOCKING

2x BLOCKING
BTWN EA TRUSS

2x CONT

JOIST PER PLAN

HOLDOWN PER
1/S3.42

HEADER PER PLAN &
SCHED (RE: 3/S0.21)

WINDOW PER ARCH

TYPICAL: EDGE NAILING @ ROOF BLOCKING

2x BLOCKING BTWN EA TRUSS

DECK PER PLAN & SCHED
(SLOPE PER ARCH)

2x CONT

JOIST PER PLAN

HEADER PER PLAN &
SCHED

WINDOW PER ARCH

CONT DBL 2x TOP PL

STUD WALL PER
PLAN & SCHED

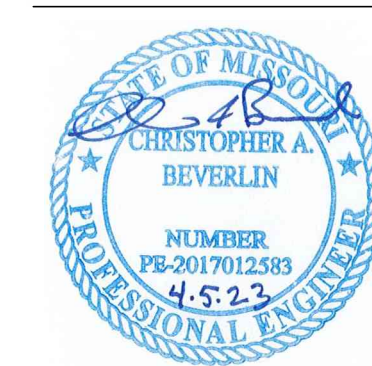
HEADER PER PLAN &
SCHED

WINDOW PER ARCH

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50 Highway & Blackwell, Lee's Summit, MO



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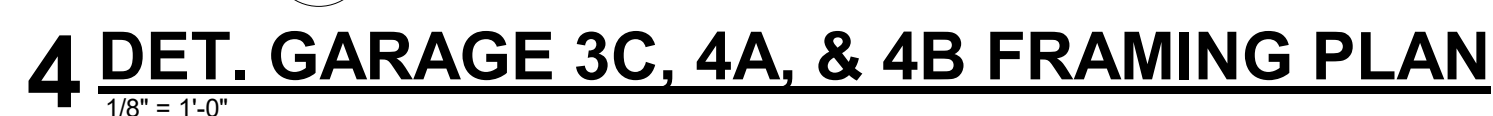
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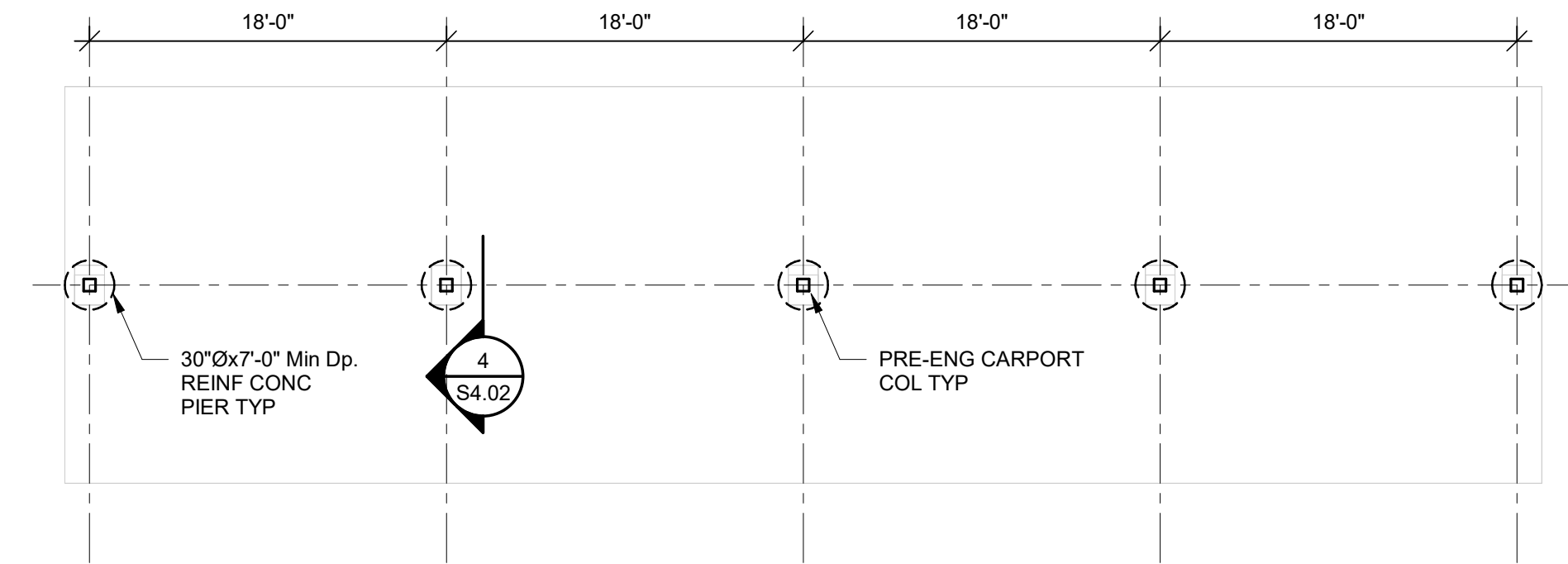
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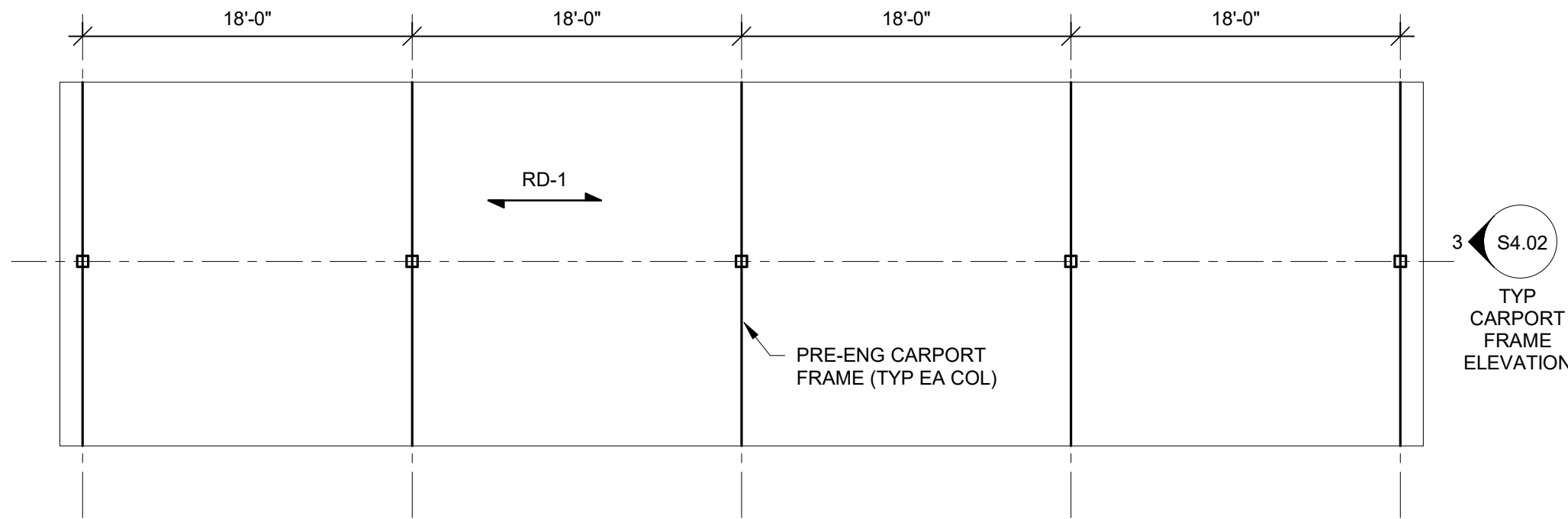
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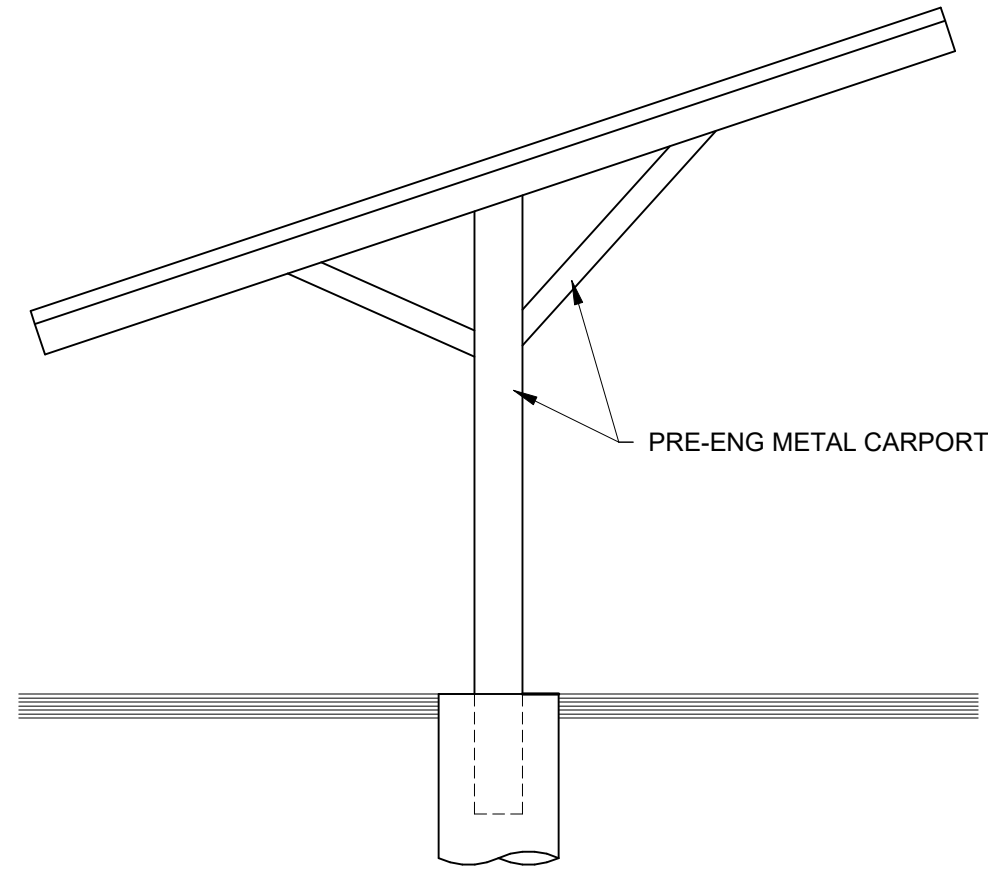
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1 CARPORT FOUNDATION PLAN
1/8" = 1'-0"

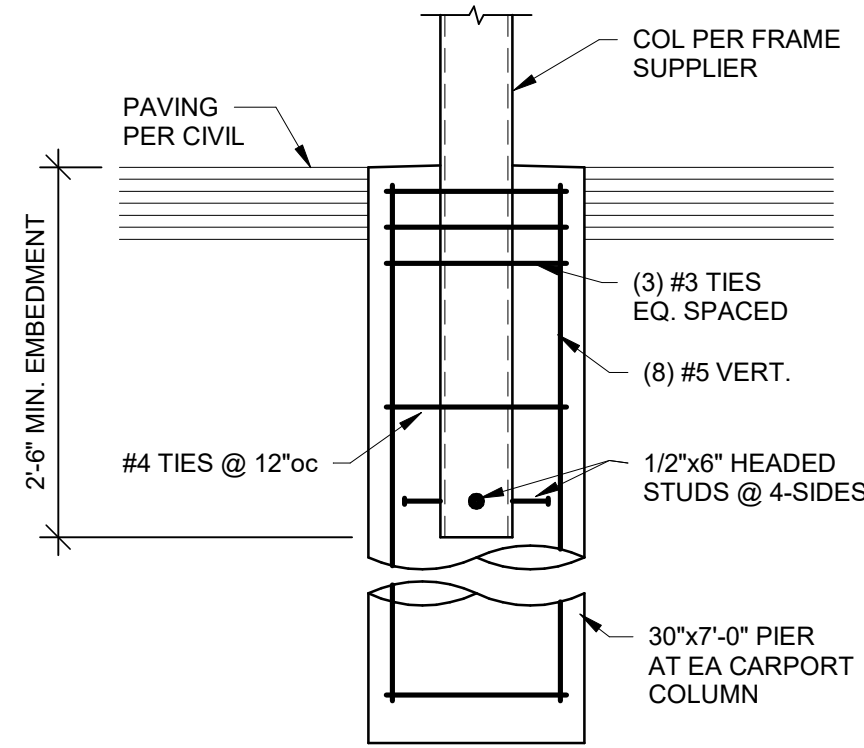


2 CARPORT FRAMING PLAN
1/8" = 1'-0"



TYPICAL CARPORT FRAME
NOTE: FRAME PROFILE APPROXIMATE, RE: PRE-ENG. STRUCTURE MANUFACTURER PER EXACT PROFILE, COORD. W/ ARCH

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



TYPICAL CARPORT COLUMN PIER

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

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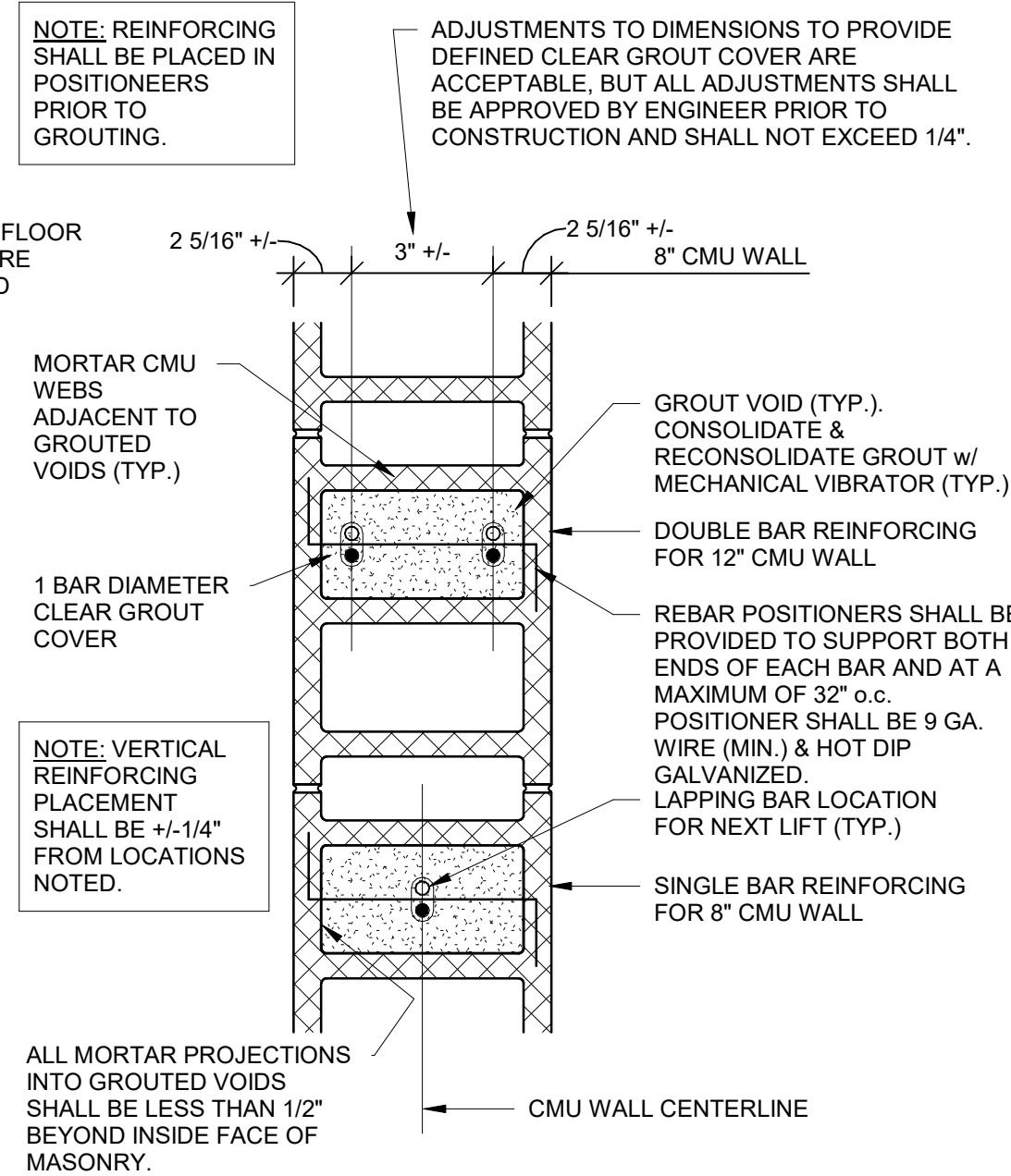
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LEGEND:

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

GENERAL CRITERIA: (SECTION A CONTINUED)

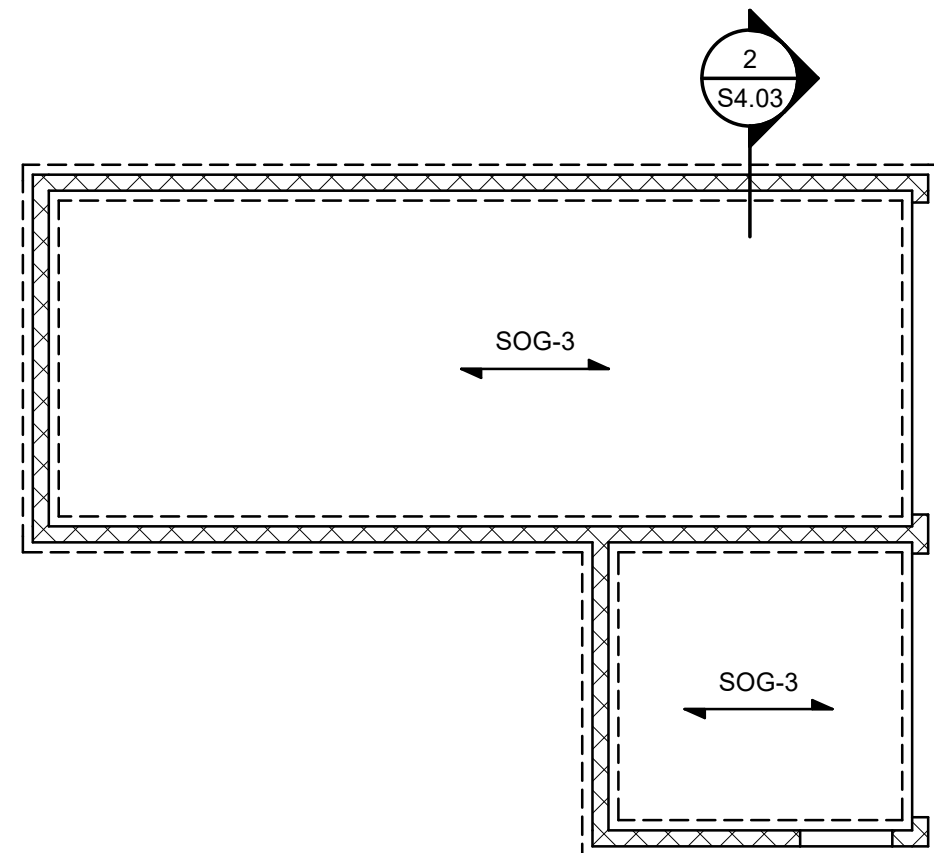
1. VERTICAL REINFORCING BARS SHALL BE DOWELED TO FOUNDATION WITH A DOWEL OF MATCHING SIZE AND SPACING.
2. CONTRACTOR SHALL COORDINATE AND VERIFY OPENINGS IN MASONRY WALLS. OPENINGS SHALL BE DETAILED ON REINFORCING STEEL SHOP DRAWING ELEVATIONS.
3. VERTICAL CONTROL JOINTS IN MASONRY WALLS SHALL BE 3/8"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

MASONRY VERTICAL REINFORCING SCHEDULE FOR LOAD BEARING MASONRY (CMU) WALLS			
WALL THICKNESS	LOCATION	VERTICAL REINF. (IN GROUTED CELLS)	SPACING
8"	TRASH ENCLOSURE	1- #5	24"oc

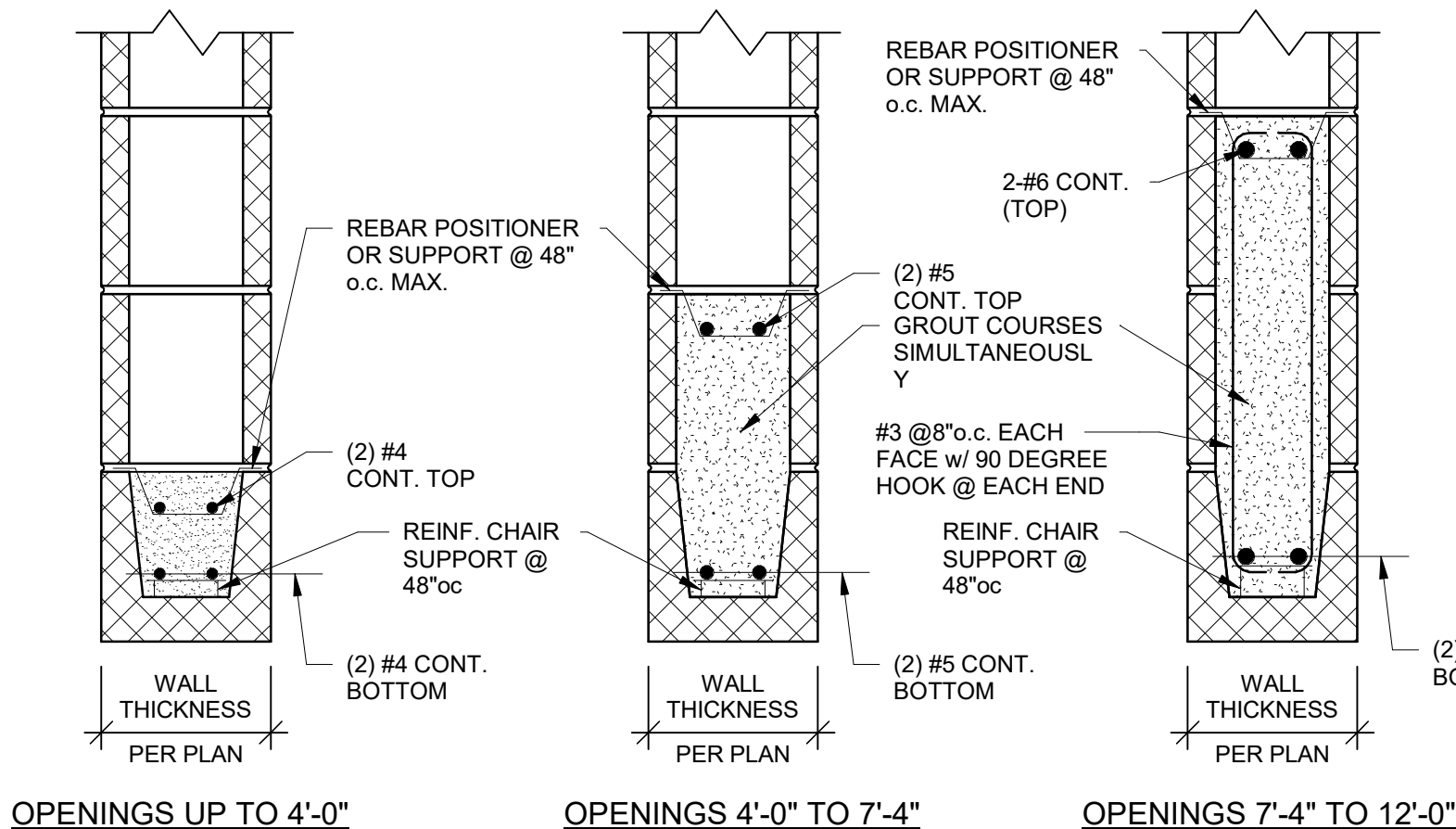
NOTES:

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

1 TRASH ENCLOSURE FOUNDATION PLAN



ALL INTERIOR & EXTERIOR MASONRY WALLS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE TO BE REINFORCED HORIZONTALLY WITH BOND BEAMS (2 - #5 BOTTOM) AT BOTTOM COURSE, TOP COURSE, JOIST BEARING ELEVATION AND AT 8'-0" MAXIMUM O.C. AND VERTICALLY AS INDICATED ON DRAWINGS. THESE WALLS ARE TO BE ANCHORED TOP AND BOTTOM TO FOUNDATIONS AND TO ROOF OR PENETRATION DETAILS. THE VERTICAL REINFORCING IS CONTINUOUS, 8'-0" MAXIMUM LENGTHS, LAPPED 2'-6" MINIMUM. FILL BLOCK CELLS AND BOND BEAMS WITH 5,000psi GROUT. RE: DETAILS "A" THROUGH "E" ON THIS SHEET.



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

CAP PER ARCH

T/CMU ELEV
PER ARCH

8" BOND BEAM
TOP & MID-HT OF
CMU WALL REINF
W/ (2) #5 HORIZ

VENEER PER
ARCH

8" CMU WALL W/ #
5 VERT @ 24"oc @
CORNERS & (2)
CELLS MIN. @
ENDS (30" MIN LAP
w/ 30" MIN. EMBED
INTO FDN)

DOWEL SIZE & SPACING
TO MATCH WALL REINF
W/ 90° HOOK INTO WALL

SLAB PER PLAN & SCHED
ON S0.01

#4 DOWELS @ 24"oc

2'-0"

GRBM REINF
PER 3/S3.01

1'-6"

PROVIDE CORNER BARS TO MATCH CONTINUOUS BOND BEAM REINFORCING

TOP BOND BEAM OR K.O. BLOCK (REINFORCING NOT SHOWN FOR CLARITY)

SAW CUT OR SPECIAL BLOCK

"KNOCKOUT * (K.O.) or TROUGH BOND BEAM BLOCK (TYPICAL UNIT EXCEPT @ DOOR OPENINGS; SOLID BOTTOM BOND BEAM SHALL BE USED). PROVIDE GROUT STOP (RE: SPECS.) UNDER K.O. BOND BEAMS OVER CELLS WHICH ARE NOT TO BE REINFORCED AND GROUTED."

1'-3 9/8"

1'5 9/8"

TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL

The diagram illustrates a cross-section of a masonry column with the following specifications:

- Column Dimensional Range:** 16" MIN. TO 40" MAX.
- Height:** 8" OR 12" NOMINAL.
- Reinforcement:** #2 TIES @ 8"oc THROUGHOUT COLUMN HEIGHT PLUS 2'-0" ABOVE AND BELOW OPENING. TIES SHALL BE FABRICATED TO MAINTAIN SINGLE LAYER OF THE REINFORCING WITHIN THE HORIZONTAL MORTAR JOINT. CUT WEBS OF BLOCK AS REQUIRED TO RECEIVE TIES WHERE CONFLICTS OCCUR.
- Grouting:** ALL VOIDS IN COLUMN SHALL BE GROUTED SQUID.
- Vertical Bars:** (2) TYPICAL VERTICAL BARS PER VOID (FULL HEIGHT OF WALL).

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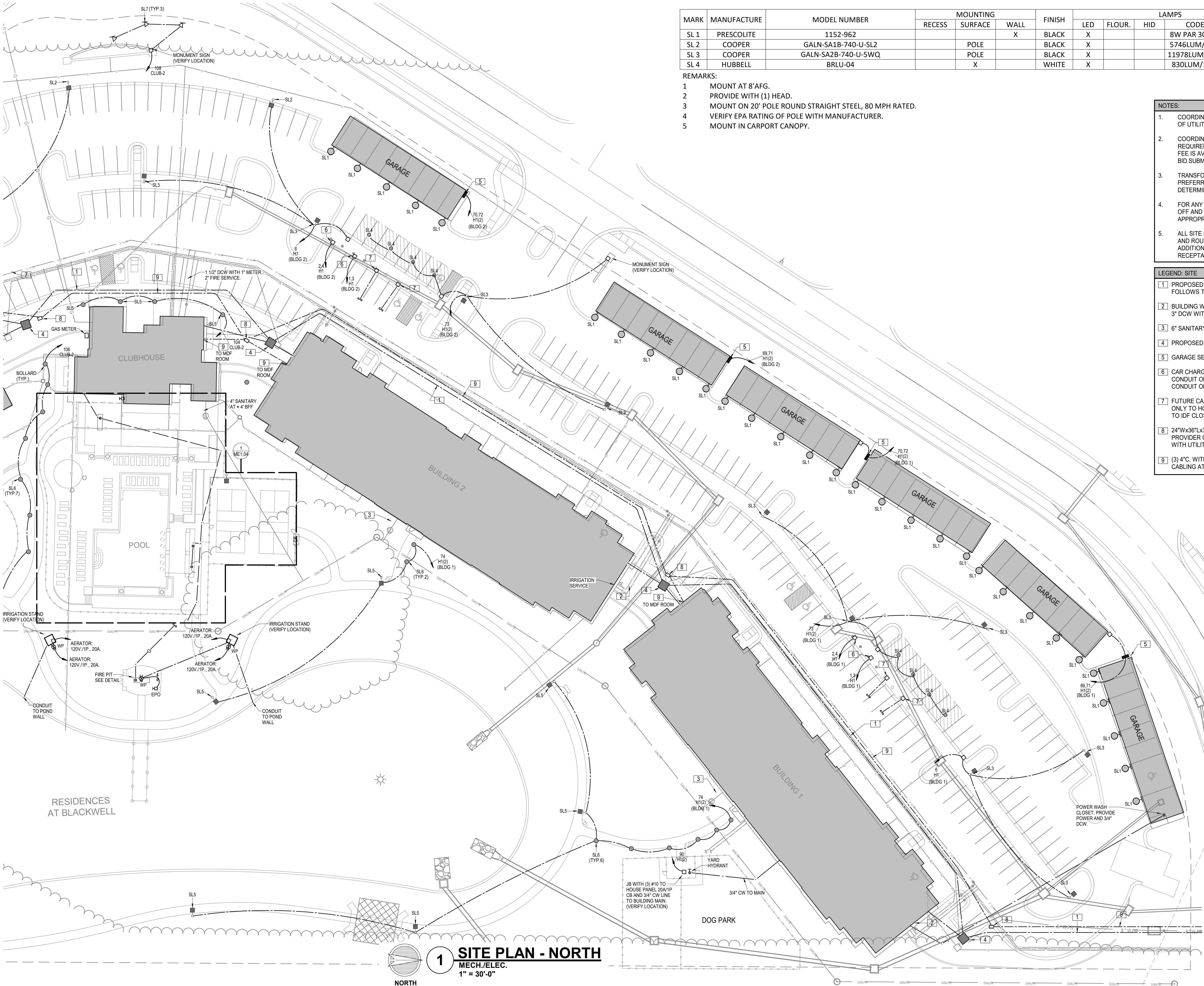
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MARK	MANUFACTURE	MODEL NUMBER	MOUNTING			FINISH	LAMPS				REMARKS	
			RECESS	SURFACE	WALL		LED	FLOUR.	HID	CODE		QUANTITY
SL 1	PRESCOLITE	1152-962			X	BLACK	X			8W PAR 30 LED	1	1
SL 2	COOPER	GALN-SA1B-740-U-SL2		POLE		BLACK	X			5746LUM/44W	1	2, 3, 4
SL 3	COOPER	GALN-SA2B-740-U-5WQ		POLE		BLACK	X			11978LUM/82W	1	2, 3, 4
SL 4	HUBBELL	BRLU-04		X		WHITE	X			830LUM/15W	1	5

- REMARKS:
- 1 MOUNT AT 8' AFG.
 - 2 PROVIDE WITH (1) HEAD.
 - 3 MOUNT ON 20' POLE ROUND STRAIGHT STEEL, 80 MPH RATED.
 - 4 VERIFY EPA RATING OF POLE WITH MANUFACTURER.
 - 5 MOUNT IN CARPORT CANOPY.

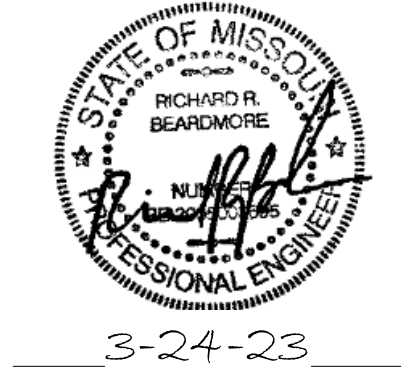
- NOTES:
1. COORDINATE WITH CIVIL PLANS FOR EXACT LOCATIONS OF UTILITIES, SITE FEATURES AND GRADE.
 2. COORDINATE WITH UTILITY PROVIDERS, INCLUDE ALL REQUIREMENTS AND FEES WITHIN THE BID WORK. IF NO FEE IS AVAILABLE, PROVIDE AN ALLOWANCE AND LIST ON BID SUBMISSION.
 3. TRANSFORMER LOCATIONS ARE AS SUGGESTED AND PREFERRED. POWER COMPANY WILL MAKE FINAL DETERMINATION.
 4. FOR ANY GAS SERVICES, PROVIDE STEEL RISER, SHUT-OFF AND APPROPRIATE PRV AT APPLIANCES IF APPROPRIATE.
 5. ALL SITE LIGHTING IS #10 WIRE IN 1" MIN. PVC CONDUIT AND ROUTE THROUGH PHOTOCELL/TIMER. PROVIDE ADDITIONAL HOT LEG ON SAME CIRCUIT FOR POLE ABASE RECEPTACLE.

- LEGEND: SITE
- 1 PROPOSED POWER PRIMARY - TELECOM TYPICALLY FOLLOWS THIS.
 - 2 BUILDING WATER SERVICE: 3" DCW WITH 2" METER AND 4" FIRE.
 - 3 6" SANITARY AT = 5' BFF.
 - 4 PROPOSED TRANSFORMER.
 - 5 GARAGE SERVICE PANEL FED FROM HOUSE PANEL.
 - 6 CAR CHARGING LOCATION WITH (2) #8, (1) #10 IN 3/4" CONDUIT ONLY TO HOUSE PANEL AND SEPARATE 3/4" CONDUIT ONLY TO IDF CLOSET.
 - 7 FUTURE CAR CHARGING LOCATION WITH 3/4" CONDUIT ONLY TO HOUSE PANEL AND SEPARATE 3/4" CONDUIT ONLY TO IDF CLOSET.
 - 8 24"Wx36"Lx30"D QUAZITE HANDHOLE FOR VOICE/DATA PROVIDER CABLING. VERIFY SIZE, QUANTITY AND LOCATION WITH UTILITY PROVIDER(S) AND CIVIL PLANS
 - 9 (3) 4"C. WITH PULL STRINGS FOR VOICE/DATA PROVIDER CABLING AT 36" MINIMUM BELOW GRADE

1 SITE PLAN - NORTH
MECH/ELEC.
1" = 30'-0"

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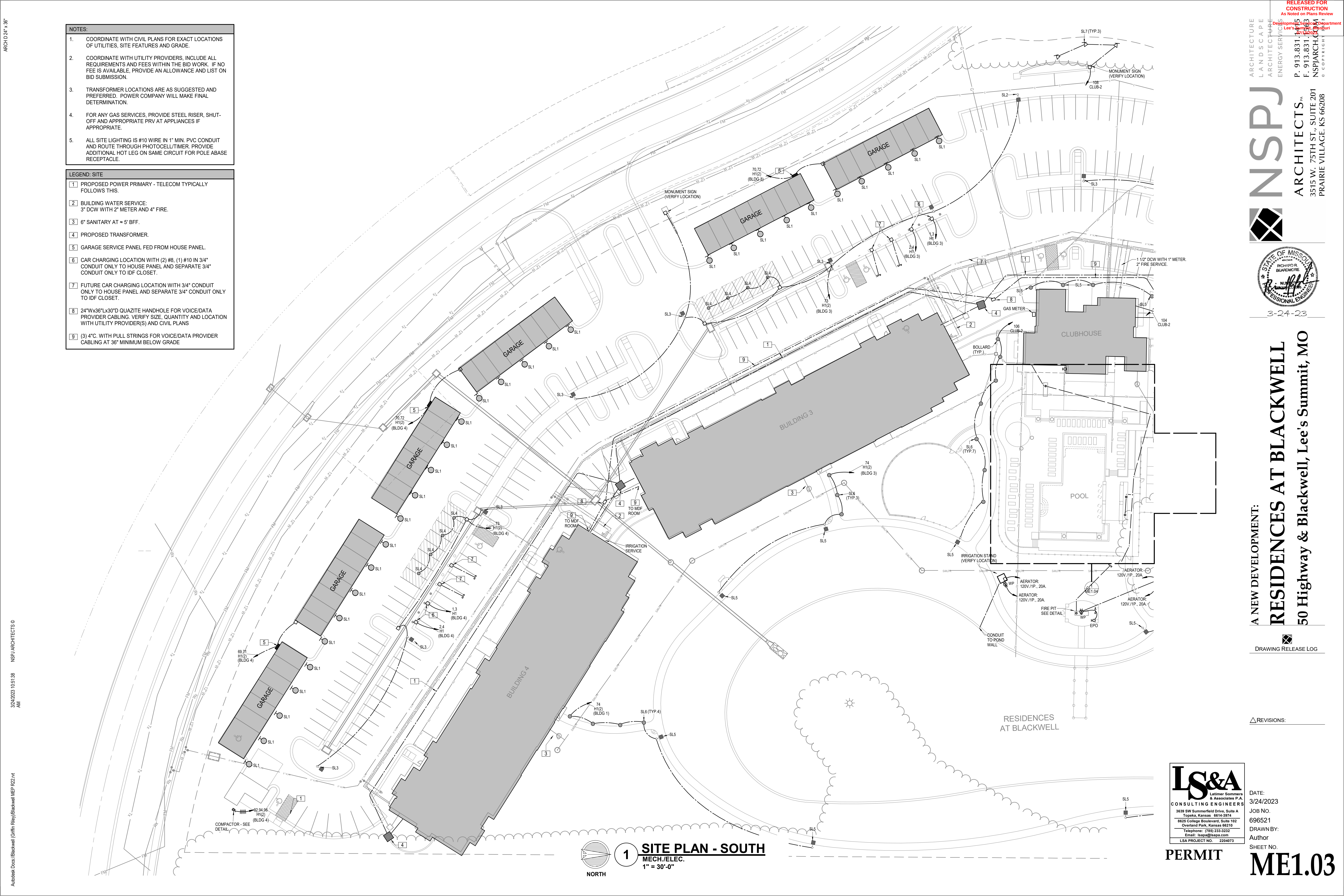
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- NOTES:
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 - 6" SANITARY AT ≈ 5' BFF.
 - PROPOSED TRANSFORMER.
 - GARAGE SERVICE PANEL FED FROM HOUSE PANEL.
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 - FUTURE CAR CHARGING LOCATION WITH 3/4" CONDUIT ONLY TO HOUSE PANEL AND SEPARATE 3/4" CONDUIT ONLY TO IDF CLOSET.
 - 24"Wx36"Lx30"D QUAZITE HANDHOLE FOR VOICE/DATA PROVIDER CABLING. VERIFY SIZE, QUANTITY AND LOCATION WITH UTILITY PROVIDER(S) AND CIVIL PLANS
 - (3) 4"C. WITH PULL STRINGS FOR VOICE/DATA PROVIDER CABLING AT 36" MINIMUM BELOW GRADE

1 SITE PLAN - SOUTH
MECH./ELEC.
1" = 30'-0"

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Professional Engineer
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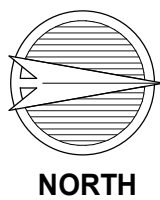
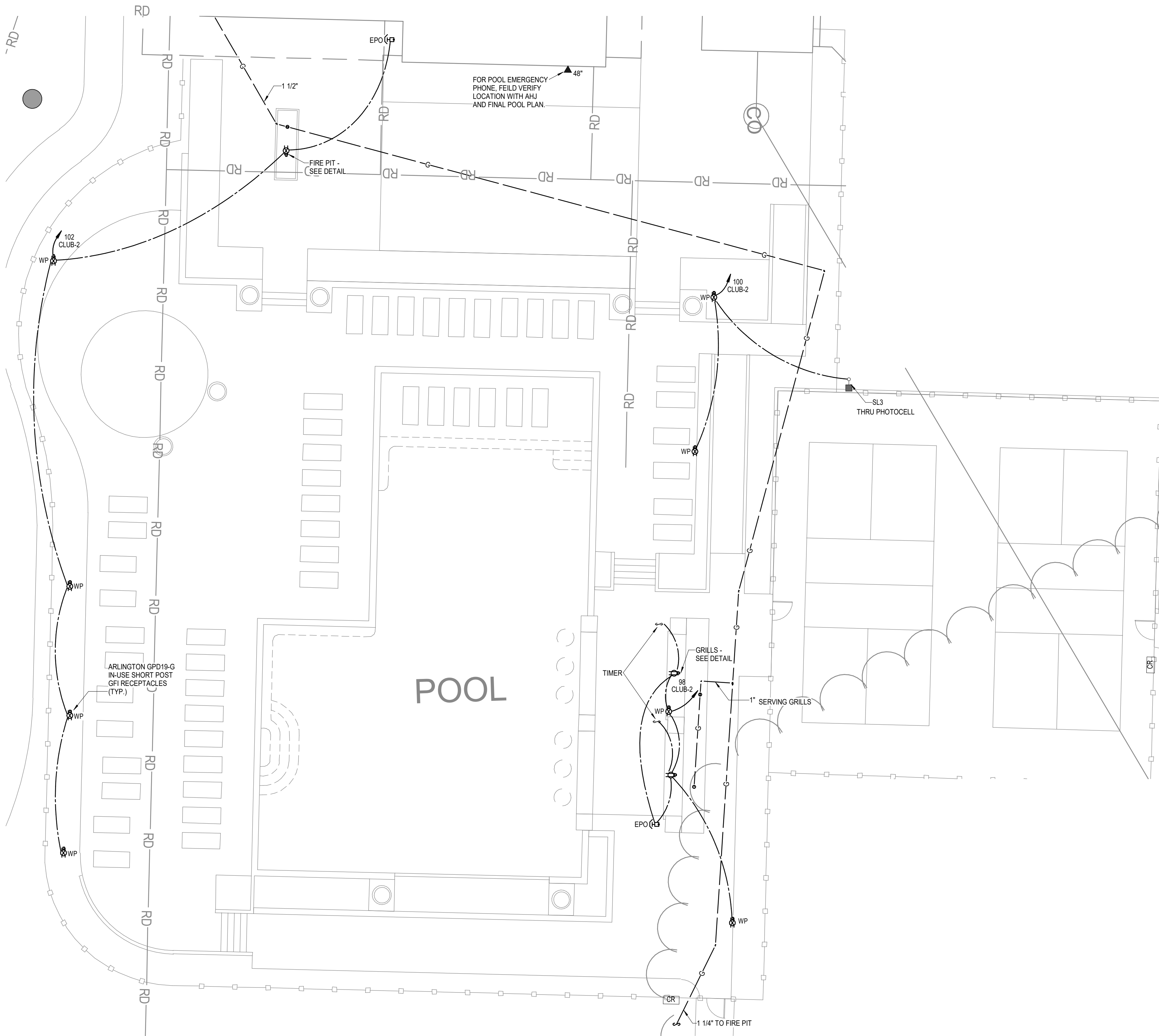
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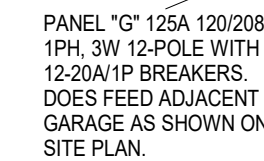
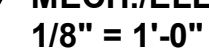
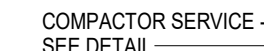
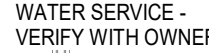
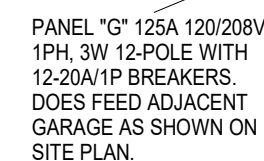
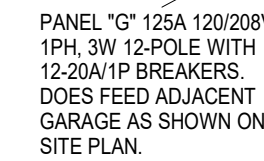
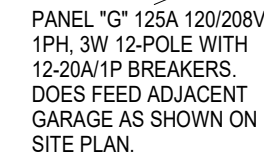
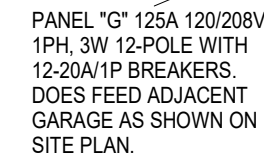
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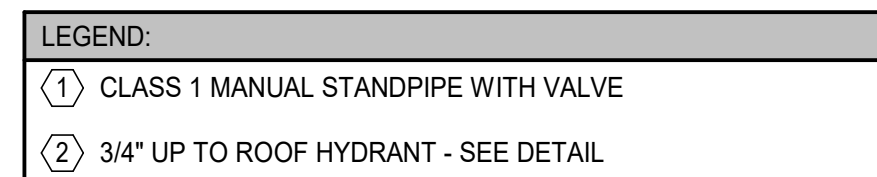
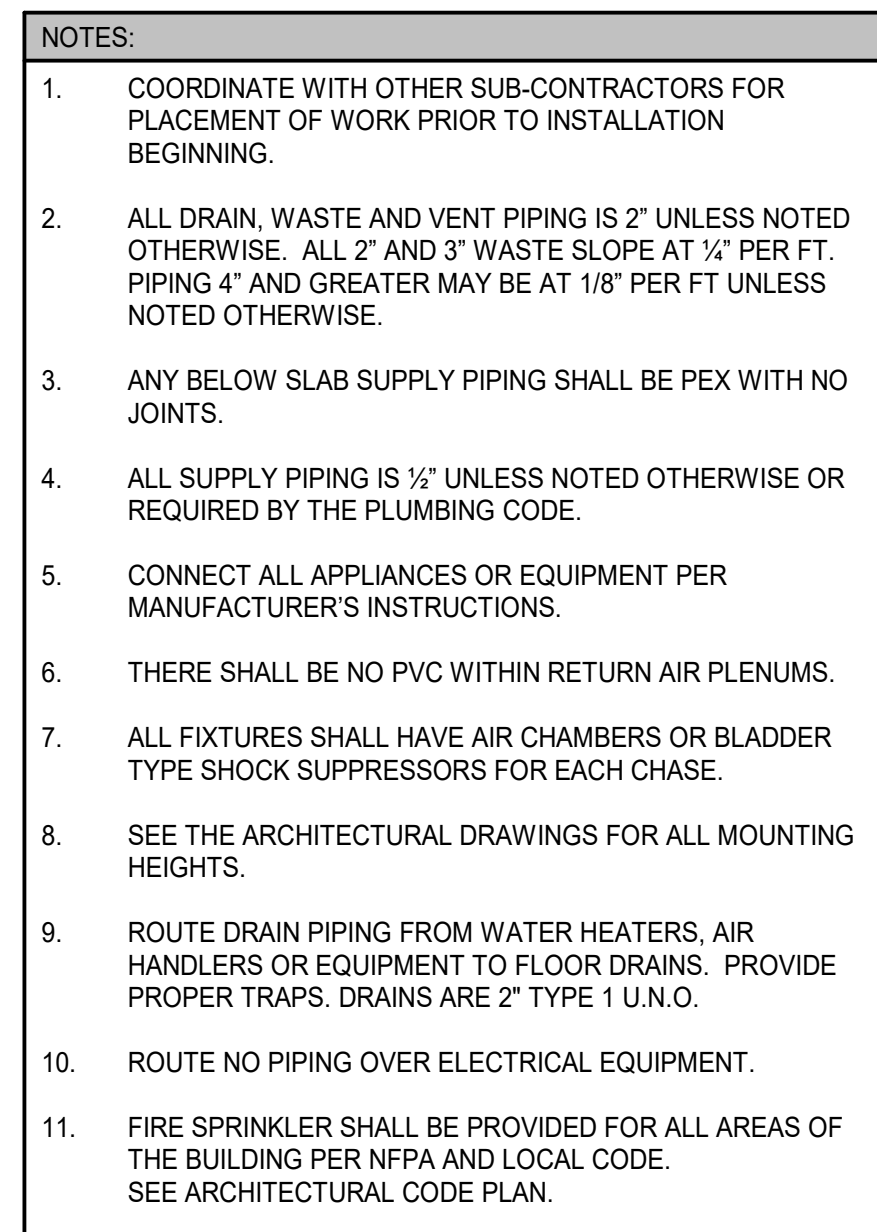


1 PARTIAL SITE PLAN AREA
NOT TO SCALE

NOTES:	
1.	COORDINATE WITH CIVIL PLANS FOR EXACT LOCATIONS OF UTILITIES, SITE FEATURES AND GRADE.
2.	COORDINATE WITH UTILITY PROVIDERS, INCLUDE ALL REQUIREMENTS AND FEES WITHIN THE BID WORK. IF NO FEE IS AVAILABLE, PROVIDE AN ALLOWANCE AND LIST ON BID SUBMISSION.
3.	TRANSFORMER LOCATIONS ARE AS SUGGESTED AND PREFERRED. POWER COMPANY WILL MAKE FINAL DETERMINATION.
4.	FOR ANY GAS SERVICES, PROVIDE STEEL RISER, SHUT-OFF AND APPROPRIATE PRV AT APPLIANCES IF APPROPRIATE.
5.	ALL SITE LIGHTING IS #10 WIRE IN 1" MIN. PVC CONDUIT AND ROUTE THROUGH PHOTOCELL/TIMER, PROVIDE ADDITIONAL HOT LEG ON SAME CIRCUIT FOR POLE ABASE RECEPTACLE.

LEGEND: SITE	
1	PROPOSED POWER PRIMARY - TELECOM TYPICALLY FOLLOWS THIS.
2	BUILDING WATER SERVICE: 3" DCW WITH 2" METER AND 4" FIRE.
3	6" SANITARY AT ≈ 5' BFF.
4	PROPOSED TRANSFORMER.
5	GARAGE SERVICE PANEL FED FROM HOUSE PANEL.
6	CAR CHARGING LOCATION WITH (2) #8, (1) #10 IN 3/4" CONDUIT ONLY TO HOUSE PANEL AND SEPARATE 3/4" CONDUIT ONLY TO IDF CLOSET.
7	FUTURE CAR CHARGING LOCATION WITH 3/4" CONDUIT ONLY TO HOUSE PANEL AND SEPARATE 3/4" CONDUIT ONLY TO IDF CLOSET.
8	24"Wx36"Lx30"D QUAZITE HANDHOLE FOR VOICE/DATA PROVIDER CABLING. VERIFY SIZE, QUANTITY AND LOCATION WITH UTILITY PROVIDER(S) AND CIVIL PLANS
9	(3) 4"C. WITH PULL STRINGS FOR VOICE/DATA PROVIDER CABLING AT 36" MINIMUM BELOW GRADE





1 LOWER LEVEL BUILDING PLAN - A
PLUMBING
1/8" = 1'-0"



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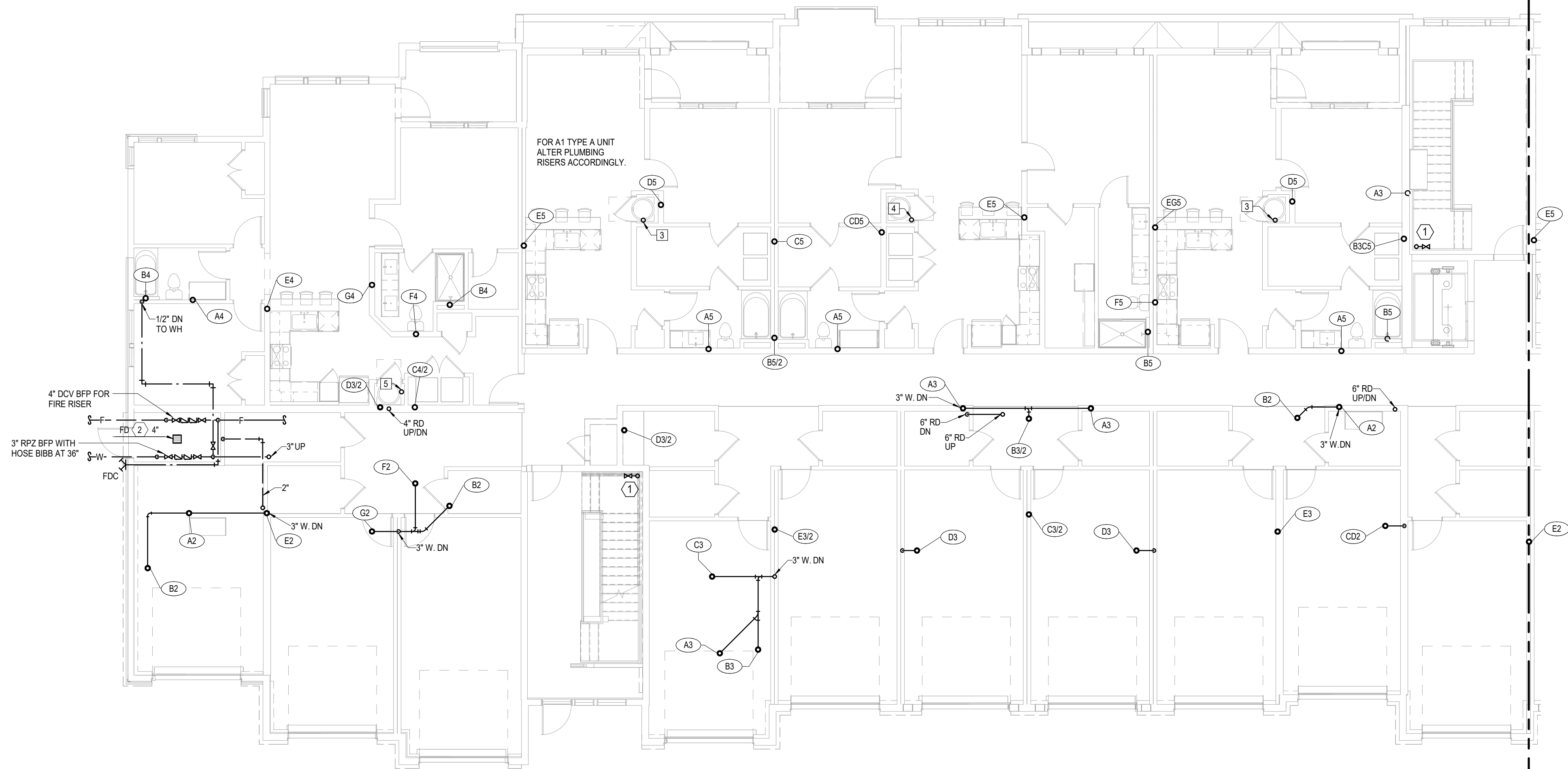
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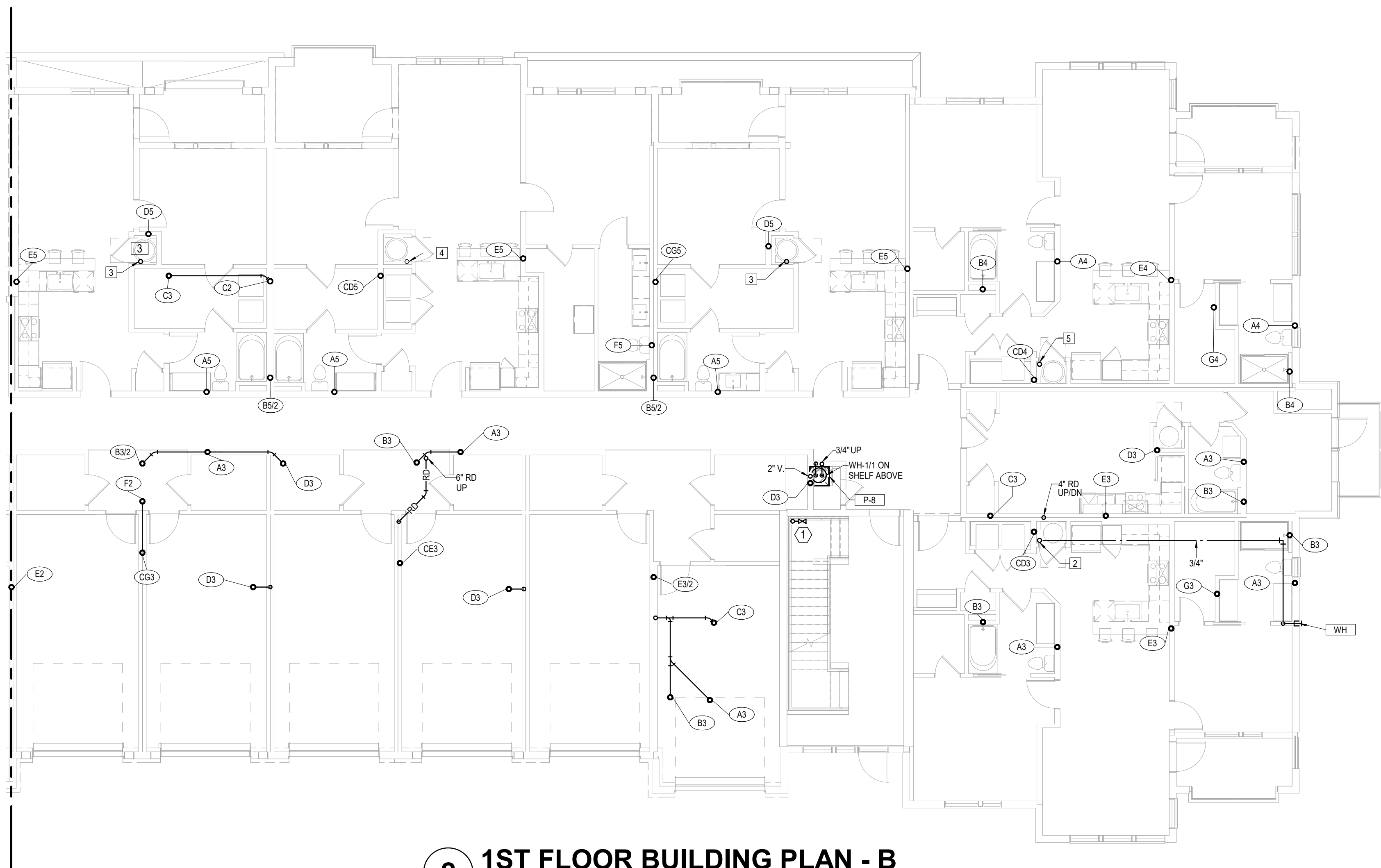
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1 1ST FLOOR BUILDING PLAN - A
PLUMBING
1/8" = 1'-0"



2 1ST FLOOR BUILDING PLAN - B
PLUMBING
1/8" = 1'-0"

- NOTES:**
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
 - ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
 - ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
 - CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
 - THERE SHALL BE NO PVC WITHIN RETURN AIR PLENUMS.
 - ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
 - SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
 - ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS. DRAINS ARE 2" TYPE 1 U.N.O.
 - ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
 - FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE. SEE ARCHITECTURAL CODE PLAN.

- LEGEND:**
- ① CLASS 1 MANUAL STANDPIPE WITH VALVE
 - ② 3/4" UP TO ROOF HYDRANT - SEE DETAIL

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Professional Engineer
No. 10446
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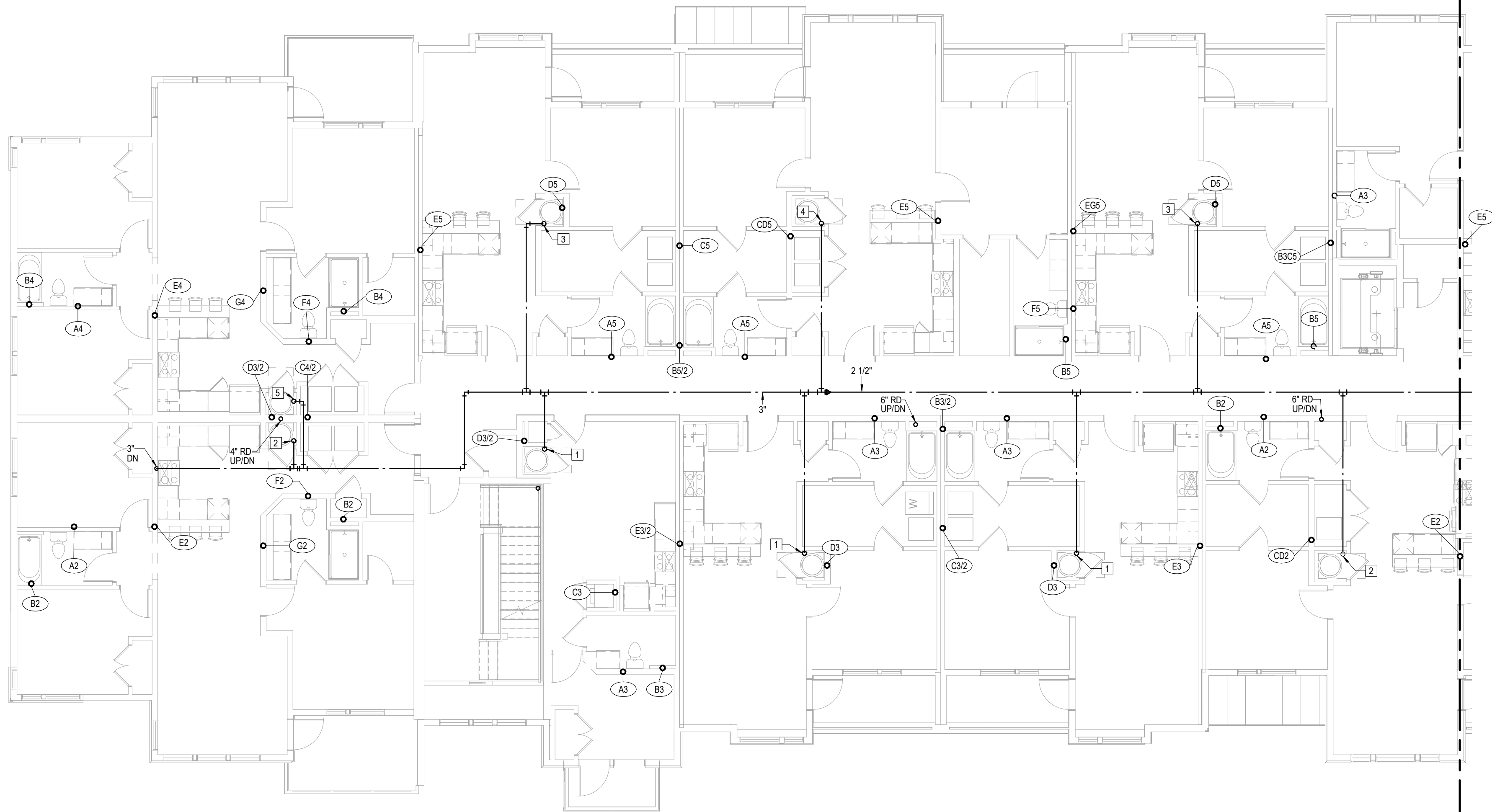
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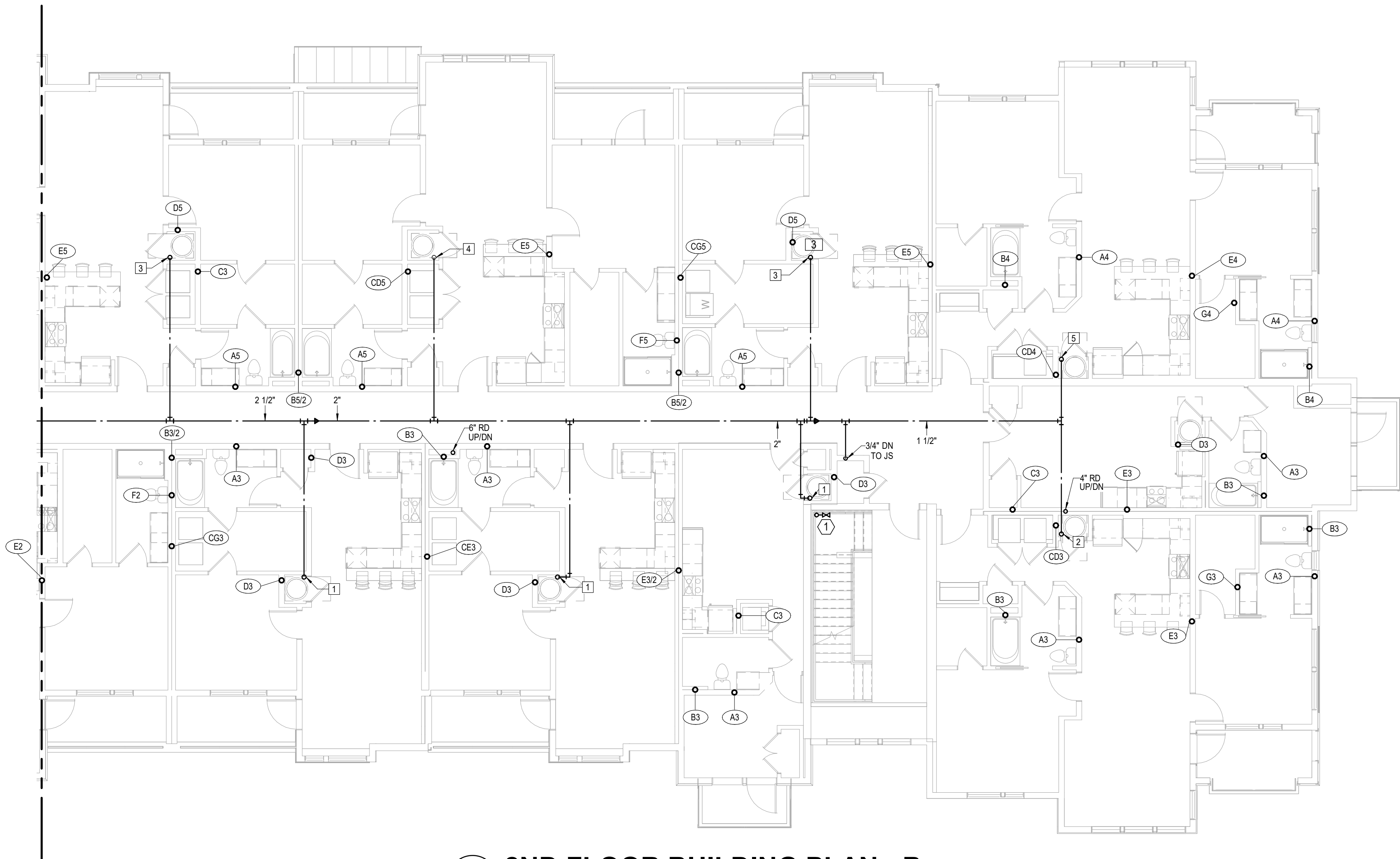
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1 2ND FLOOR BUILDING PLAN - A
PLUMBING
1/8" = 1'-0"



2 2ND FLOOR BUILDING PLAN - B
PLUMBING
1/8" = 1'-0"

- NOTES:
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- LEGEND:
- 1 CLASS 1 MANUAL STANDPIPE WITH VALVE
 - 2 3/4" UP TO ROOF HYDRANT - SEE DETAIL

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Professional Engineer
3-24-23

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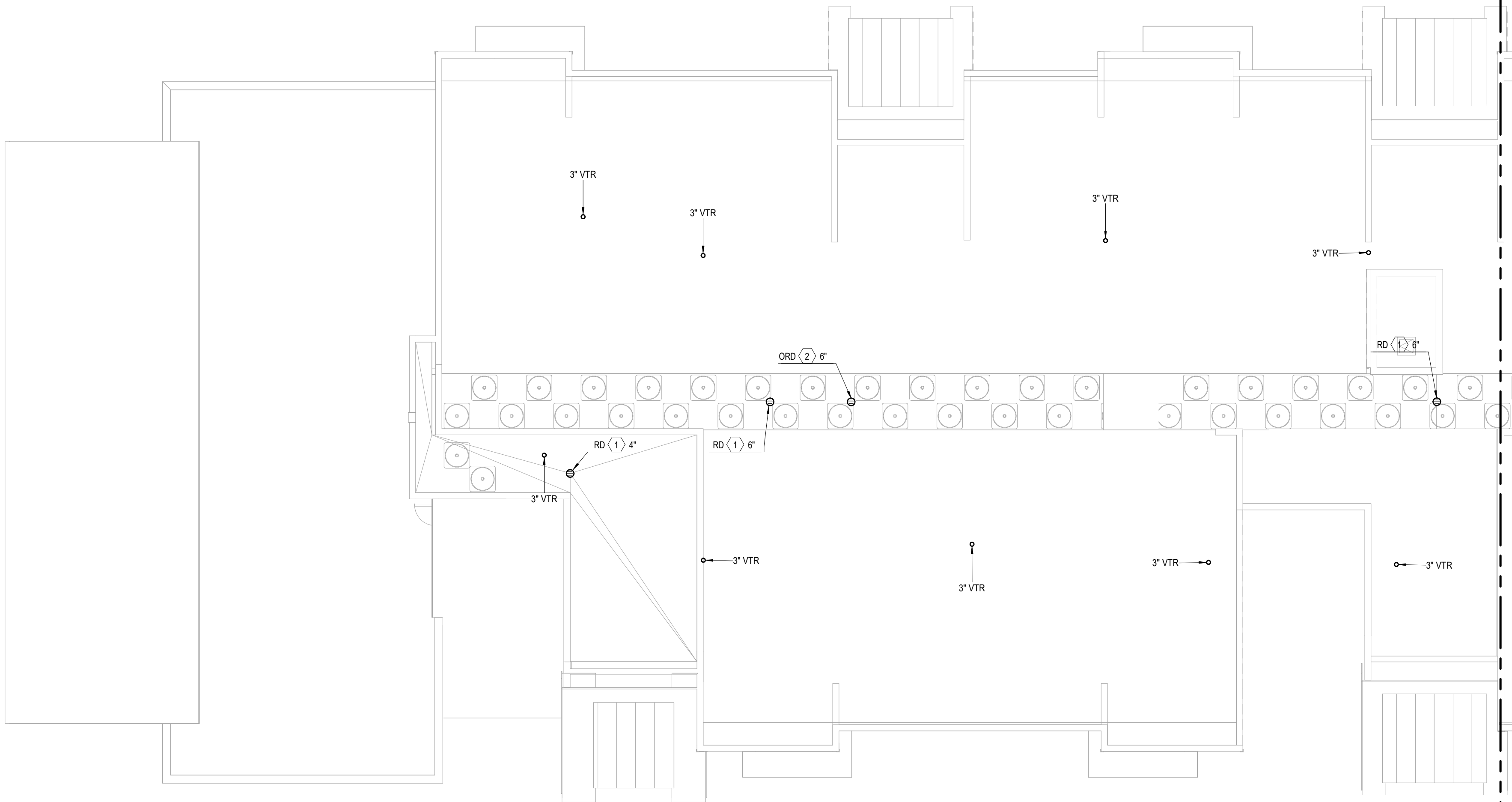
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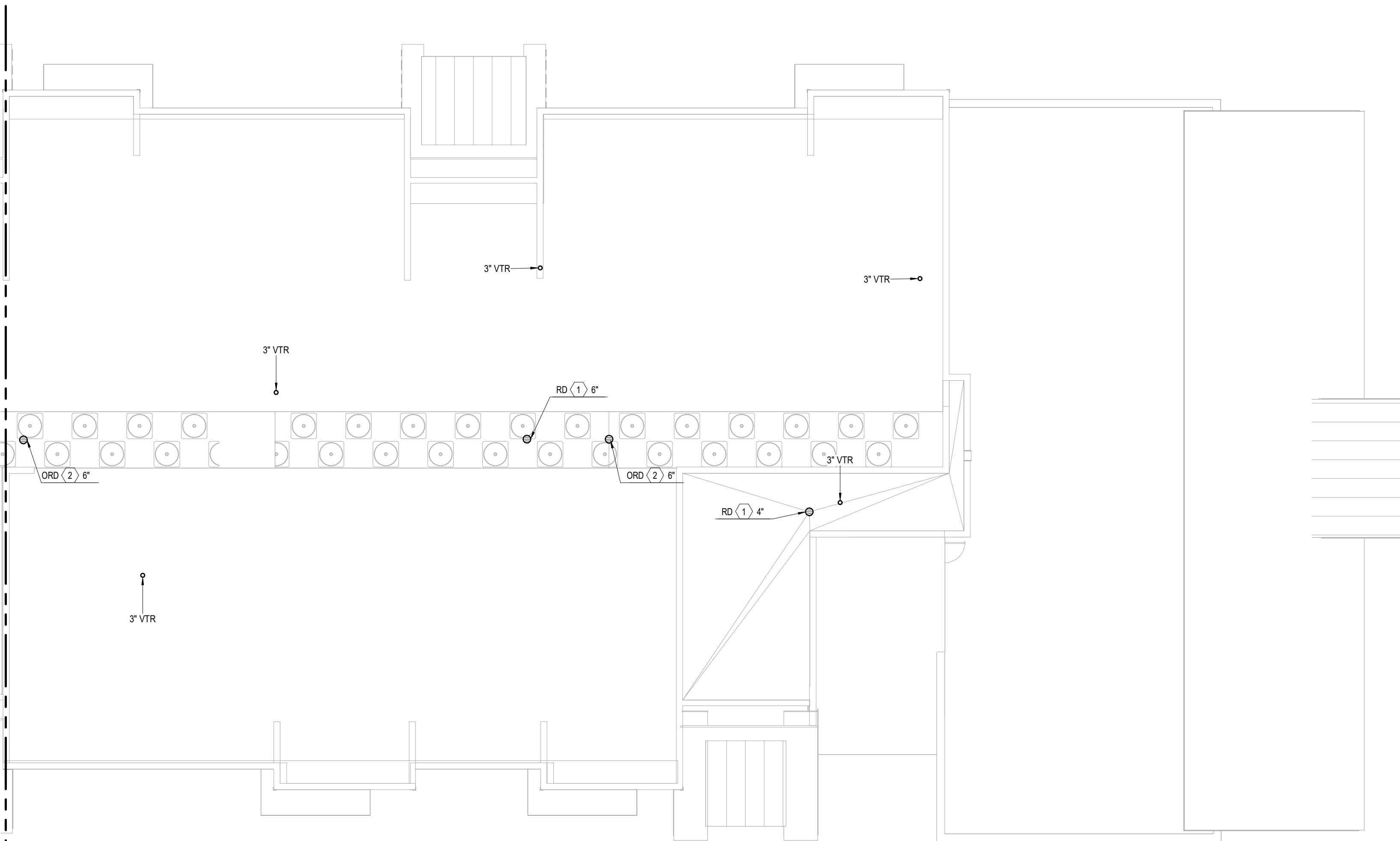
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1 **ROOF PLAN - A**
PLUMBING
1/8" = 1'-0"



2 **ROOF PLAN - B**
PLUMBING
1/8" = 1'-0"

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- LEGEND:**
- (1) CLASS 1 MANUAL STANDPIPE WITH VALVE
 - (2) 3/4" UP TO ROOF HYDRANT - SEE DETAIL

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STATE OF MISSOURI
RICHARD P. BEARDMORE
No. 000000000
PROFESSIONAL ENGINEER
3-24-23

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RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

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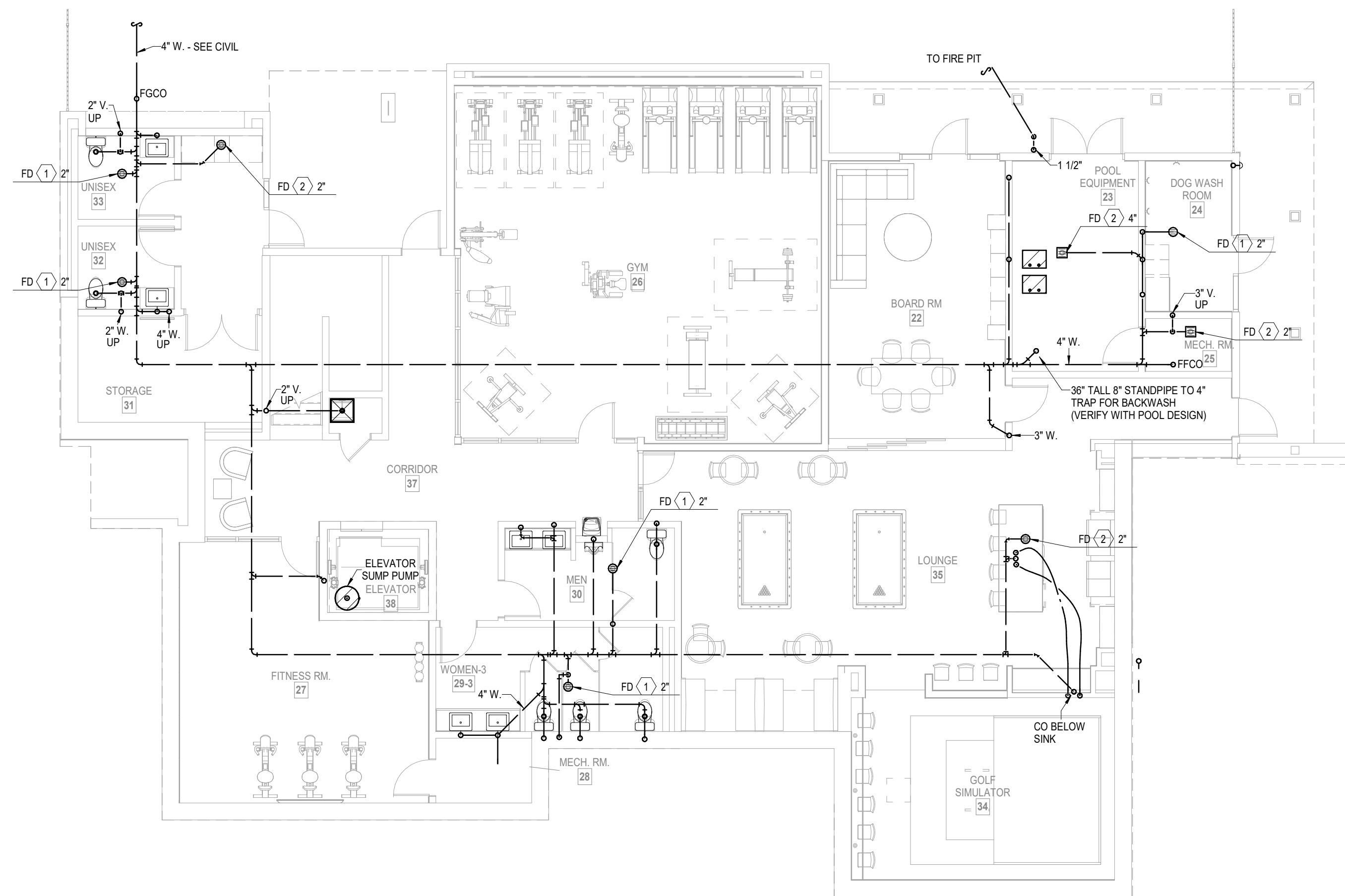
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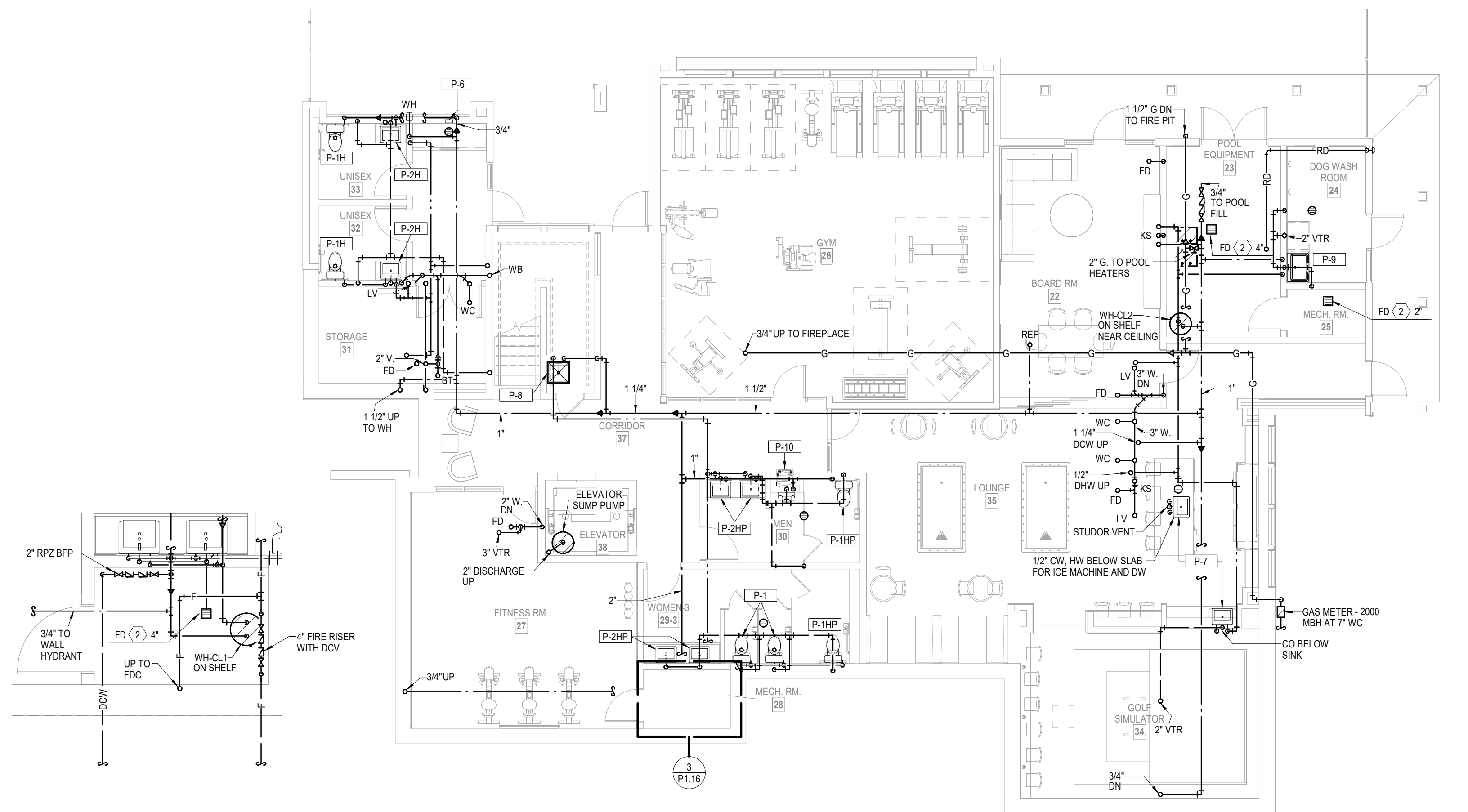
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1 LOWER LEVEL CLUBHOUSE
BELOW GRADE PLUMBING
1/8" = 1'-0"



3 PARTIAL FLOOR PLAN

PLUMBING
1/4" = 1'-0"

2 LOWER LEVEL CLUBHOUSE

PLUMBING
1/8" = 1'-0"

NOTES:	
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7.	ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8.	SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9.	ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS. DRAINS ARE 2" TYPE 1 U.N.O.
10.	ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.
11.	FIRE SPRINKLER SHALL BE PROVIDED FOR ALL AREAS OF THE BUILDING PER NFPA AND LOCAL CODE. SEE ARCHITECTURAL CODE PLAN.

LEGEND:	
①	CLASS 1 MANUAL STANDPIPE WITH VALVE
②	3/4" UP TO ROOF HYDRANT - SEE DETAIL



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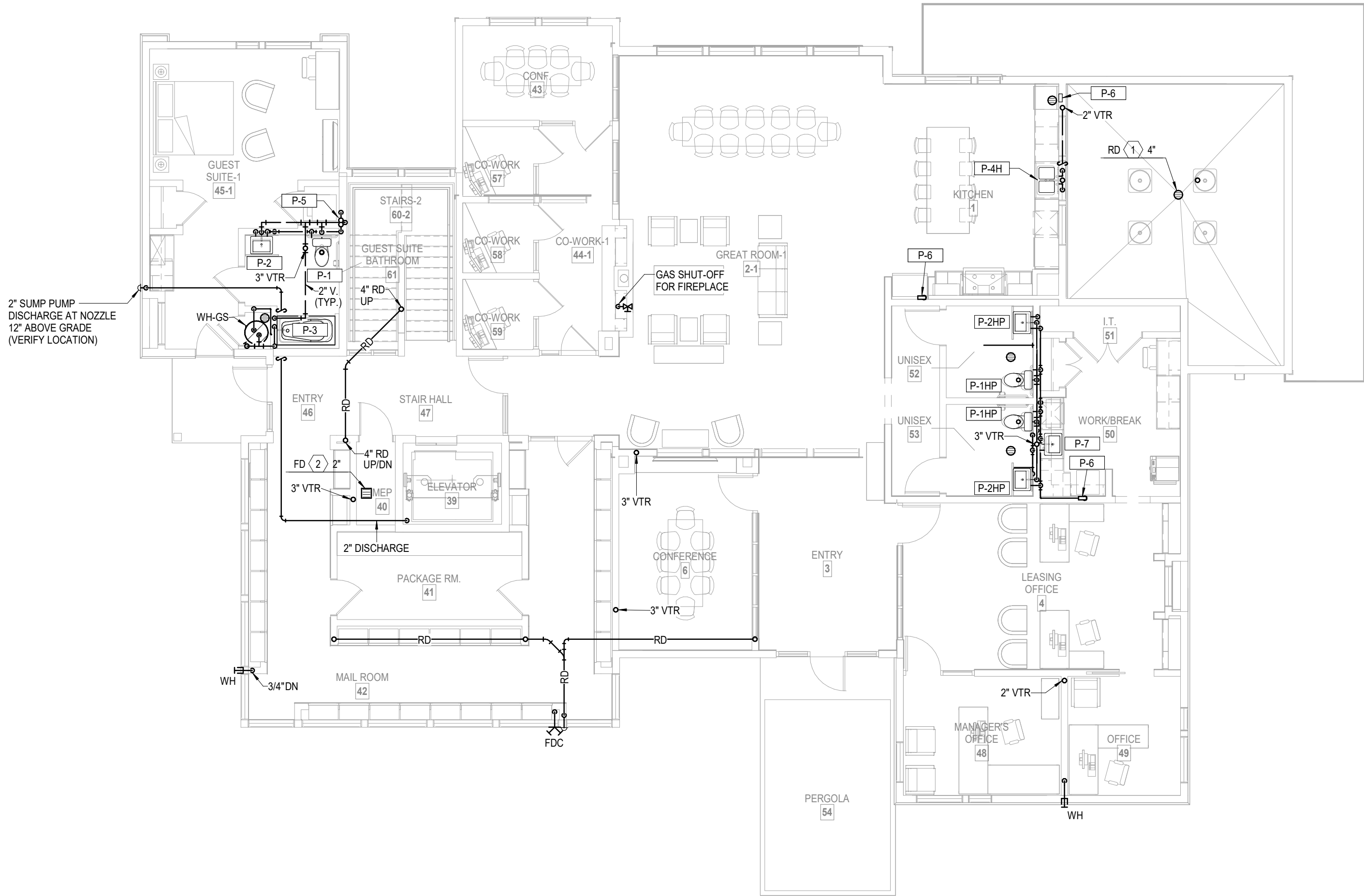
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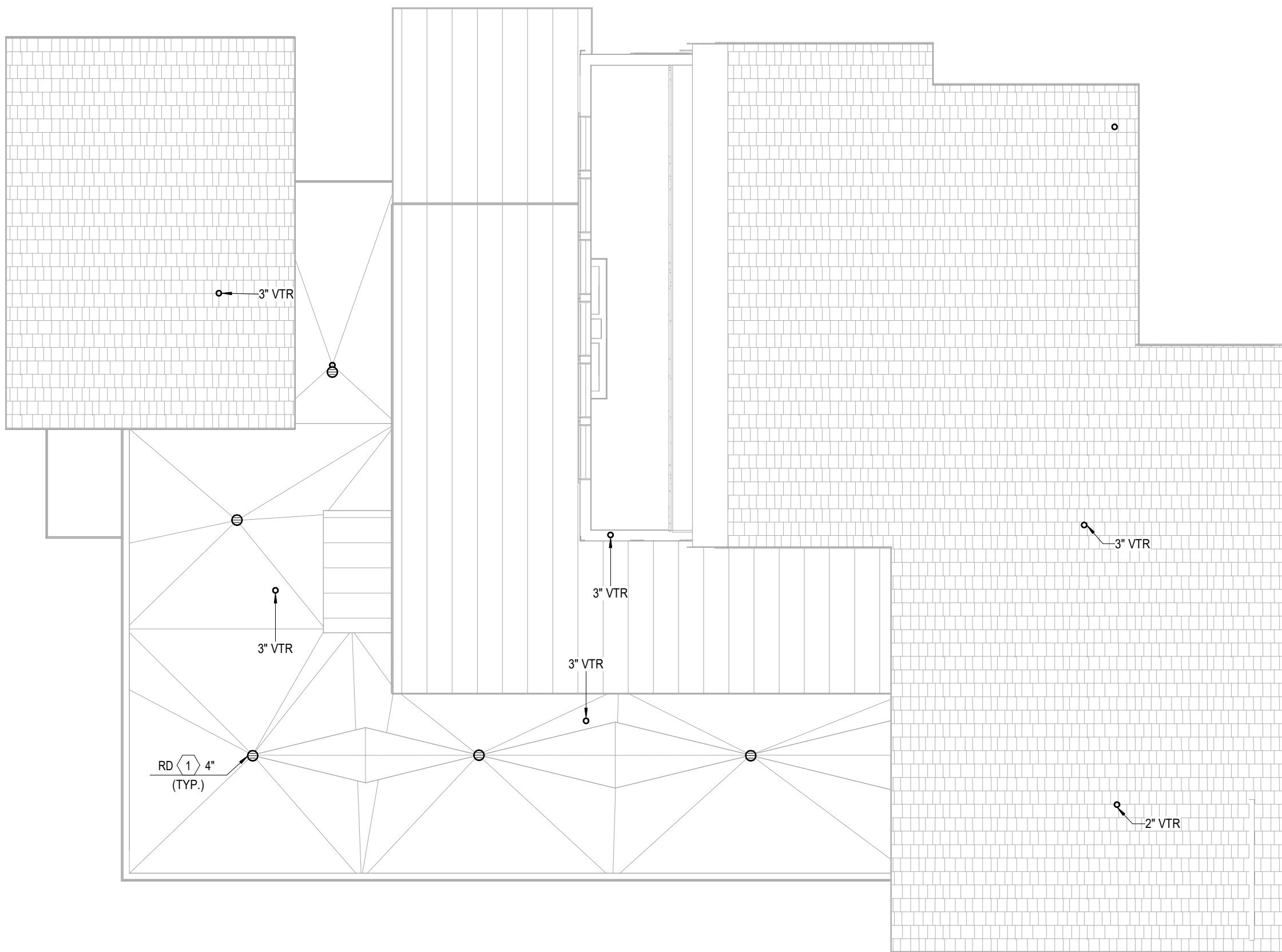
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1 1ST FLOOR CLUBHOUSE PLAN
PLUMBING
1/8" = 1'-0"



2 ROOF CLUBHOUSE PLAN
PLUMBING
1/8" = 1'-0"

- NOTES:
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 - ② 3/4" UP TO ROOF HYDRANT - SEE DETAIL

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No. 11444
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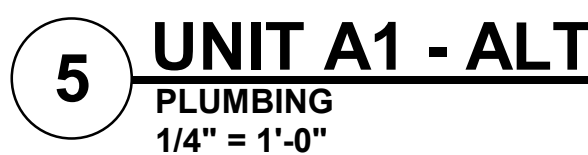
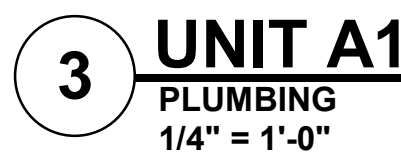
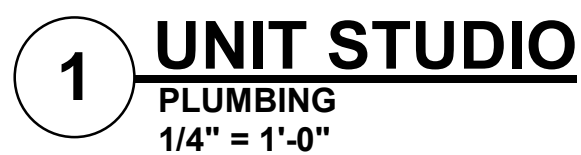
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- | LEGEND: | |
|---------|---|
| ① | 3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD. |
| ② | 1" WATER SERVICE/SHUT-OFF WITH MANIFOLD. |



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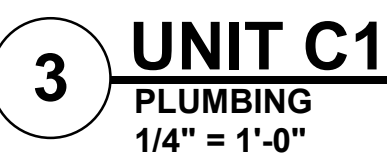
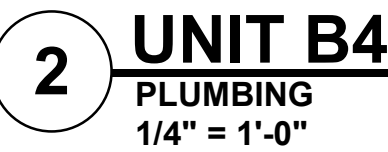
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- | LEGEND: | |
|---------|---|
| ① | 3/4" WATER SERVICE/SHUT-OFF WITH 3/4" MANIFOLD. |
| ② | 1" WATER SERVICE/SHUT-OFF WITH MANIFOLD. |

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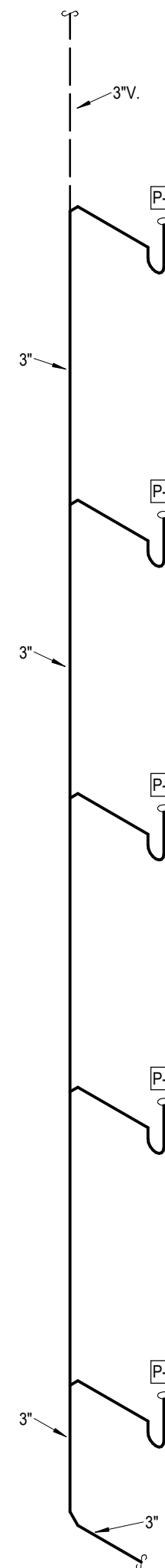
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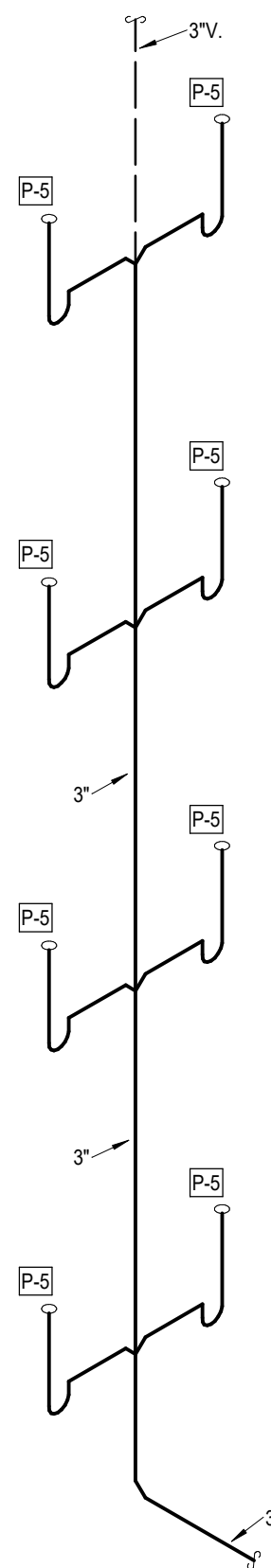


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B5 Plumbing Riser
NOT TO SCALE



C4/2 Plumbing Riser
NOT TO SCALE



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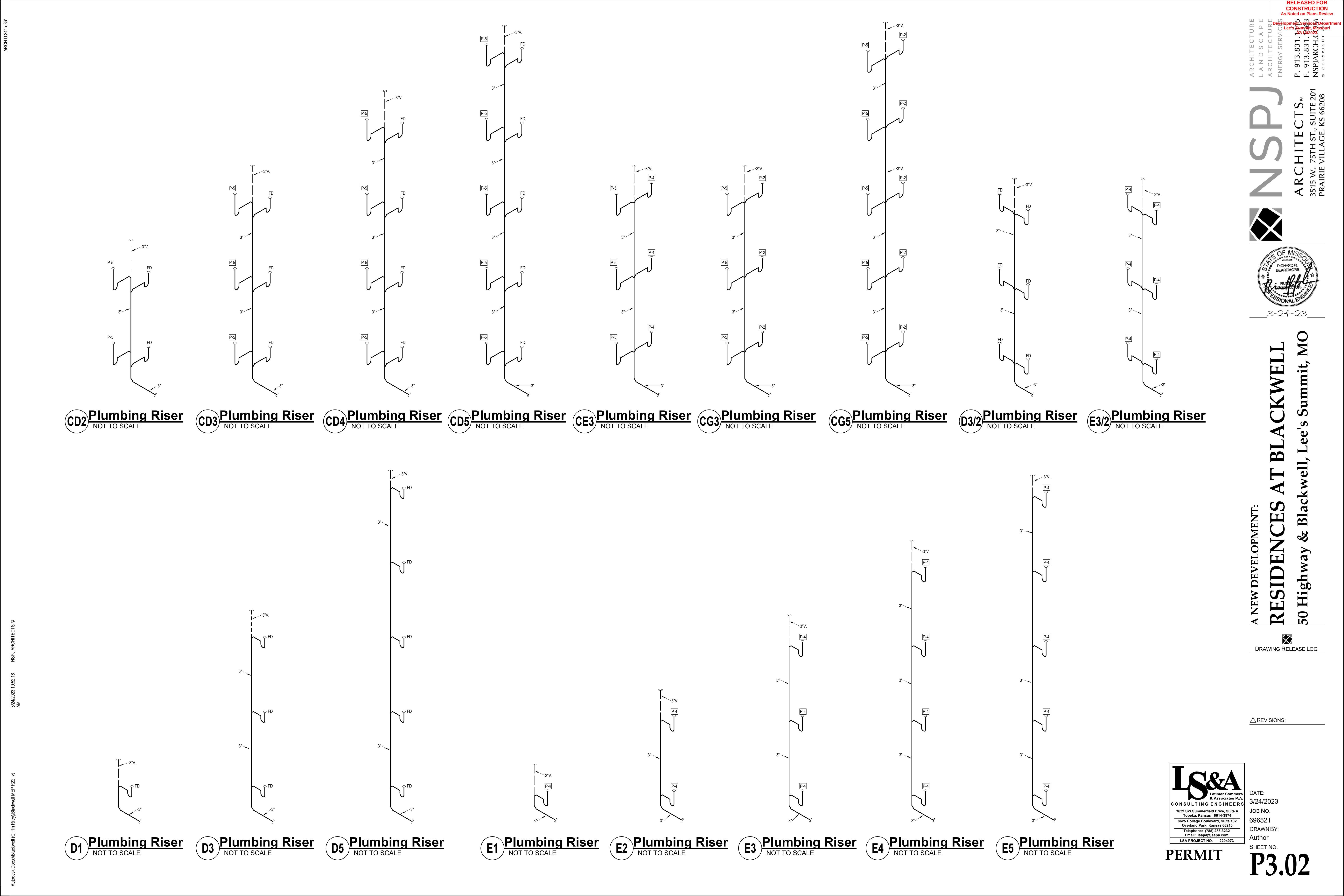


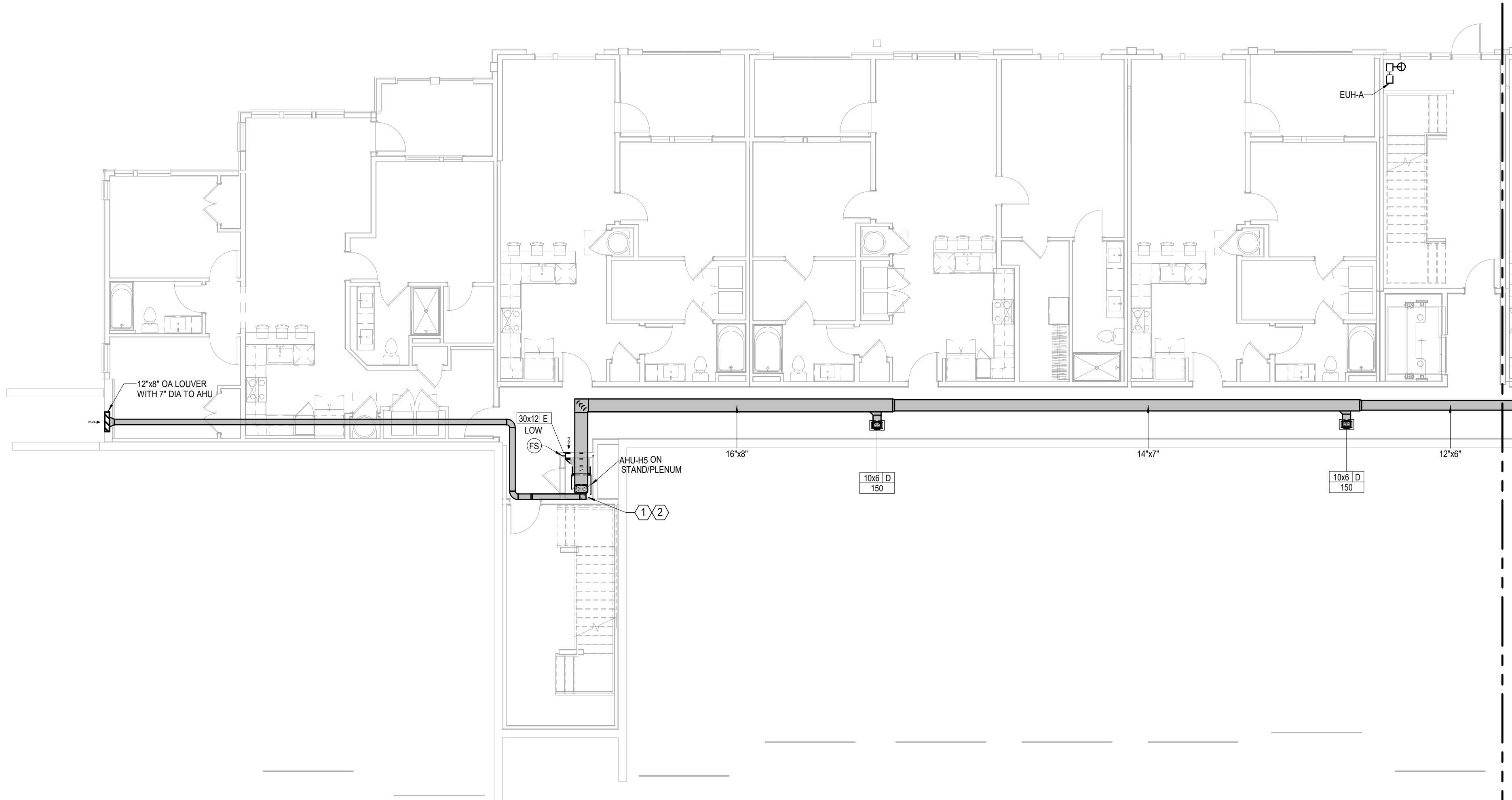
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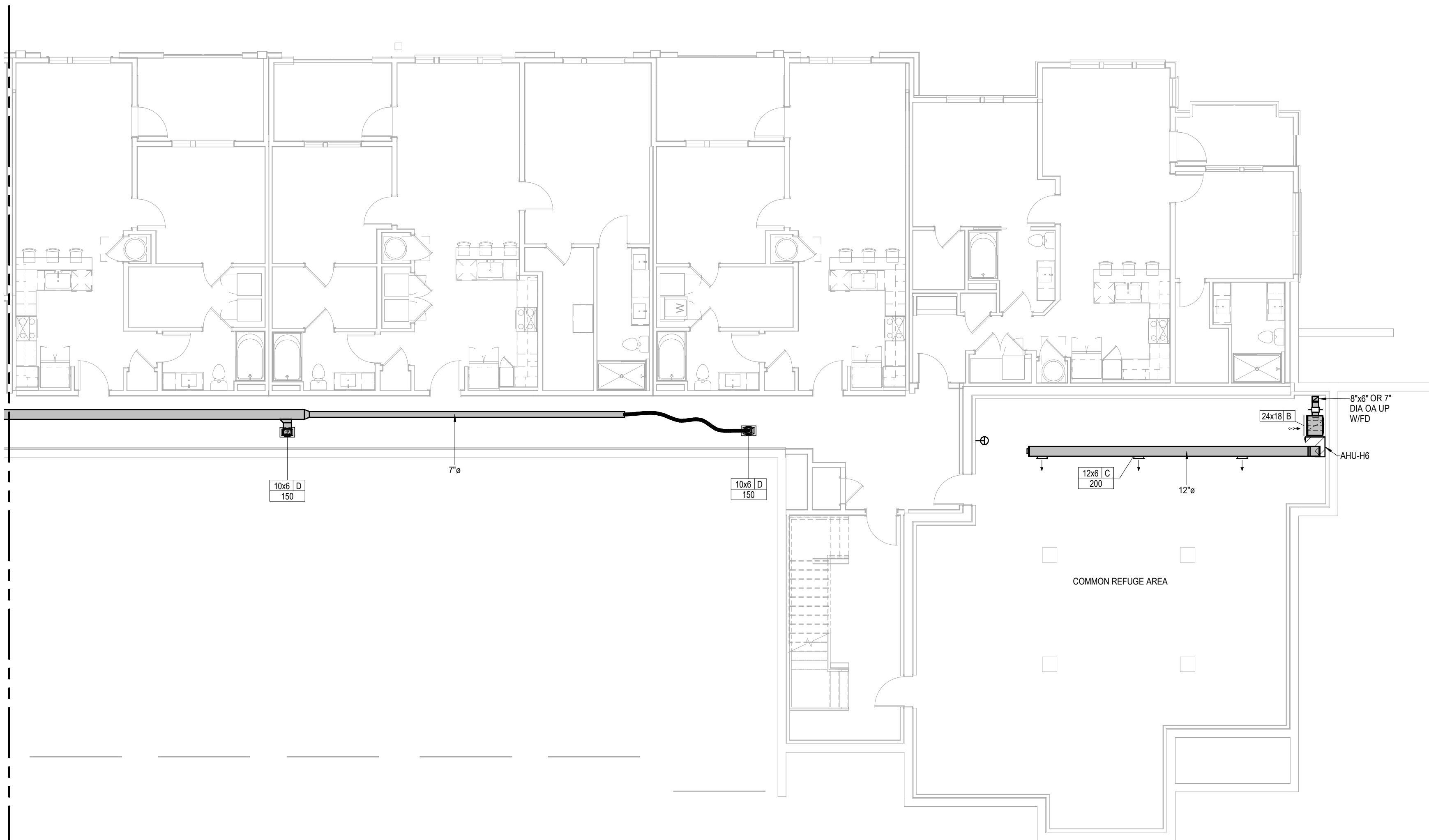
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1 LOWER LEVEL BUILDING PLAN - A
HVAC
1/8" = 1'-0"



2 LOWER LEVEL BUILDING PLAN - B
HVAC
1/8" = 1'-0"

NOTES:

1.

COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.

2.

ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.

3.

SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.

4.

ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.

5.

FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 10 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.

6.

RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT.

7.

ROUTE DSS AND UNIT DRAINS TO FLOOR DRAINS.

LEGEND:

①

OUTSIDE AIR DAMPER CONTROL WITH BALANCING DAMPER - SEE DETAIL

②

CEILING RADIATION DAMPER AT MEMBRANE.

③

PROVIDE 2' GALVANIZED PAN FOR AHUs AND DRAIN JUST THRU CEILING OVER BREAK ROOM SINK.

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RICHARD P. BEARDMORE
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- | | |
|----------------|--|
| LEGEND: | |
| ① | OUTSIDE AIR DAMPER CONTROL WITH BALANCING DAMPER - SEE DETAIL |
| ② | CEILING RADIATION DAMPER AT MEMBRANE. |
| ③ | PROVIDE 2" GALVANIZED PAN FOR AHUs AND DRAIN JUST THRU CEILING OVER BREAK ROOM SINK. |



**A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL**
50 Highway & Blackwell, Lee's Summit, MO

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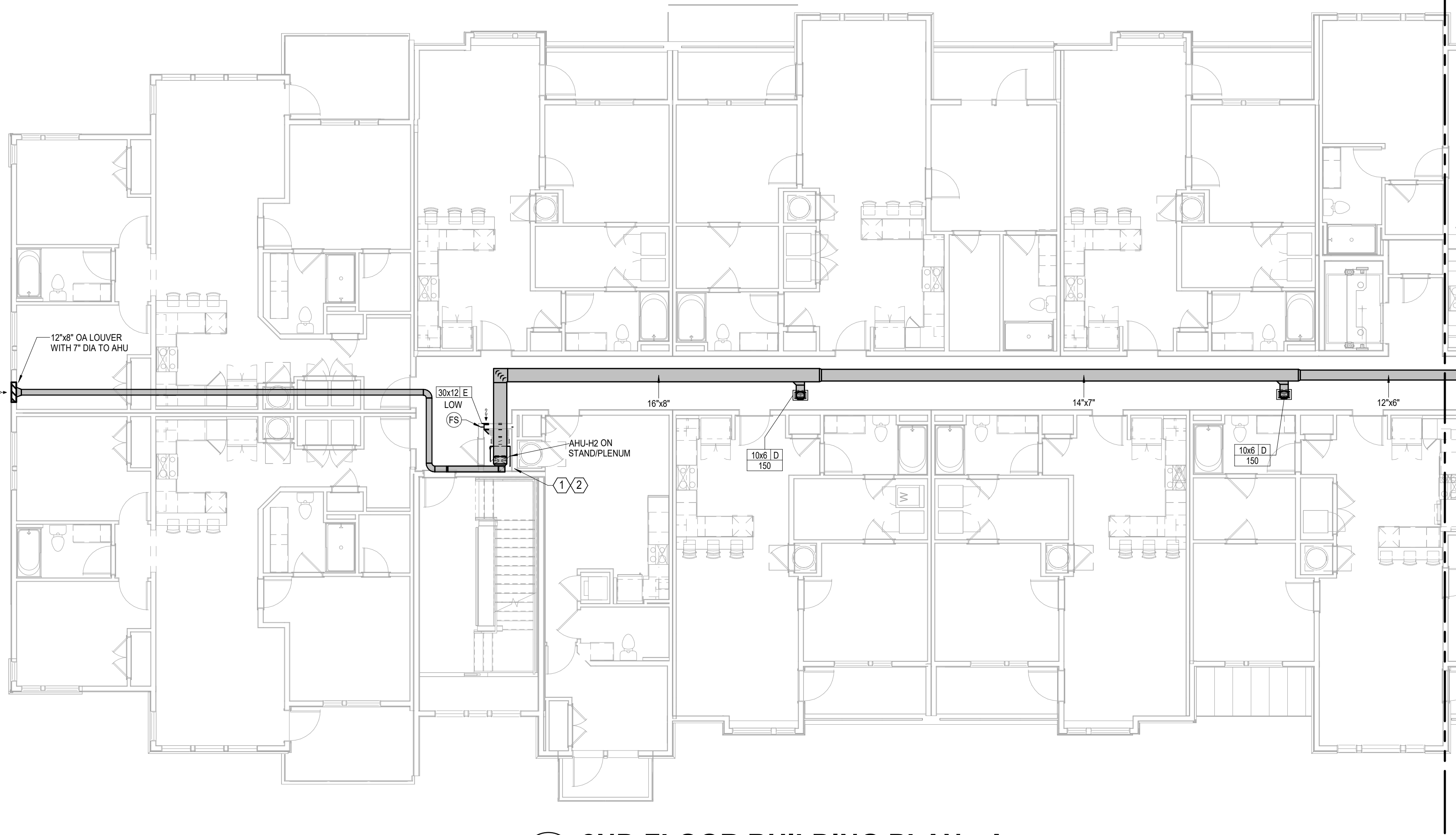
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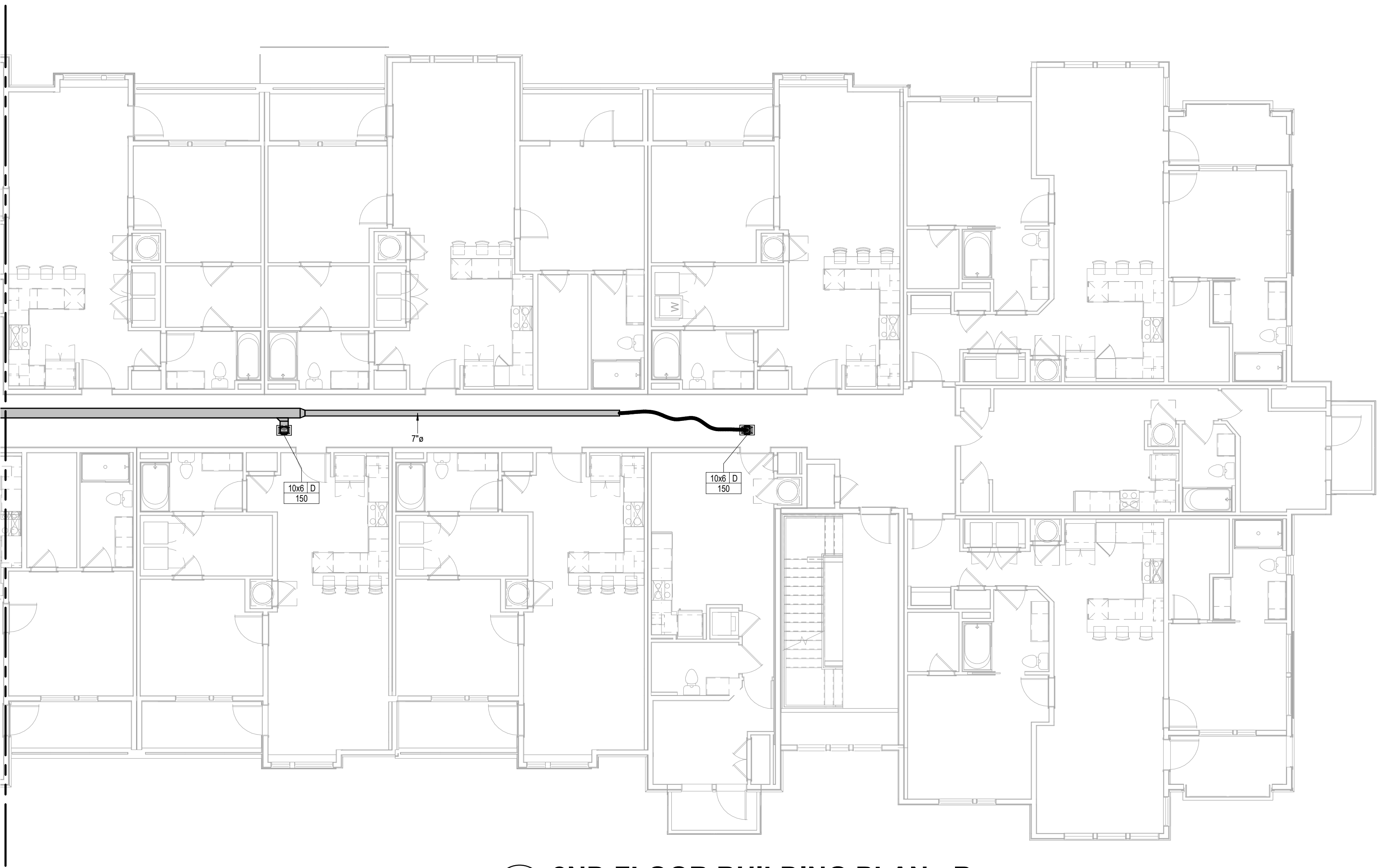
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1 **2ND FLOOR BUILDING PLAN - A**
HVAC
1/8" = 1'-0"



2 **2ND FLOOR BUILDING PLAN - B**
HVAC
1/8" = 1'-0"

NOTES:	
1.	COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2.	ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3.	SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4.	ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5.	FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 10 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6.	RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT.
7.	ROUTE DSS AND UNIT DRAINS TO FLOOR DRAINS.
LEGEND:	
①	OUTSIDE AIR DAMPER CONTROL WITH BALANCING DAMPER - SEE DETAIL
②	CEILING RADIATION DAMPER AT MEMBRANE.
③	PROVIDE 2' GALVANIZED PAN FOR AHUs AND DRAIN JUST THRU CEILING OVER BREAK ROOM SINK.

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No. 000000000
PROFESSIONAL ENGINEER
3-24-23

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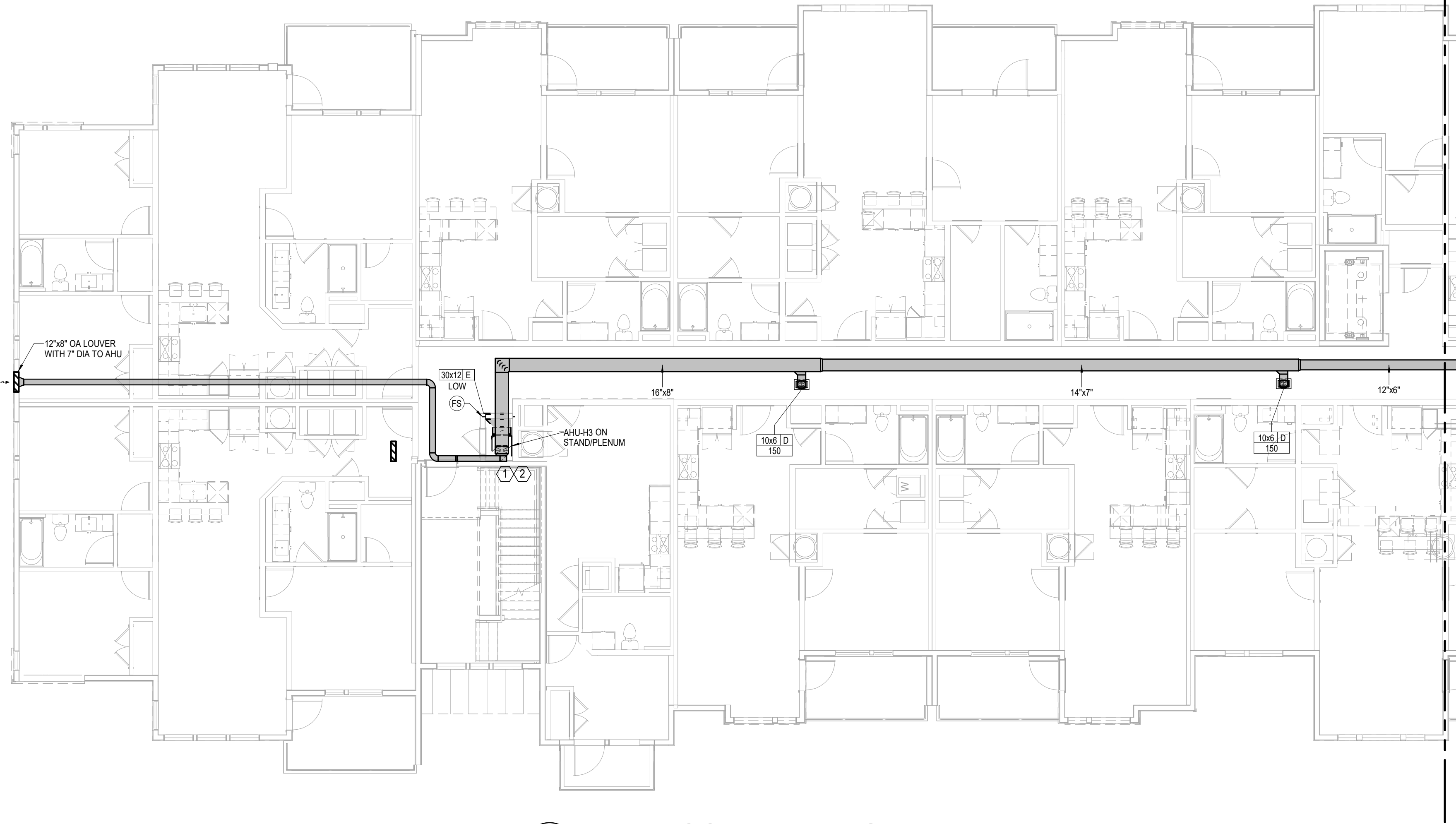
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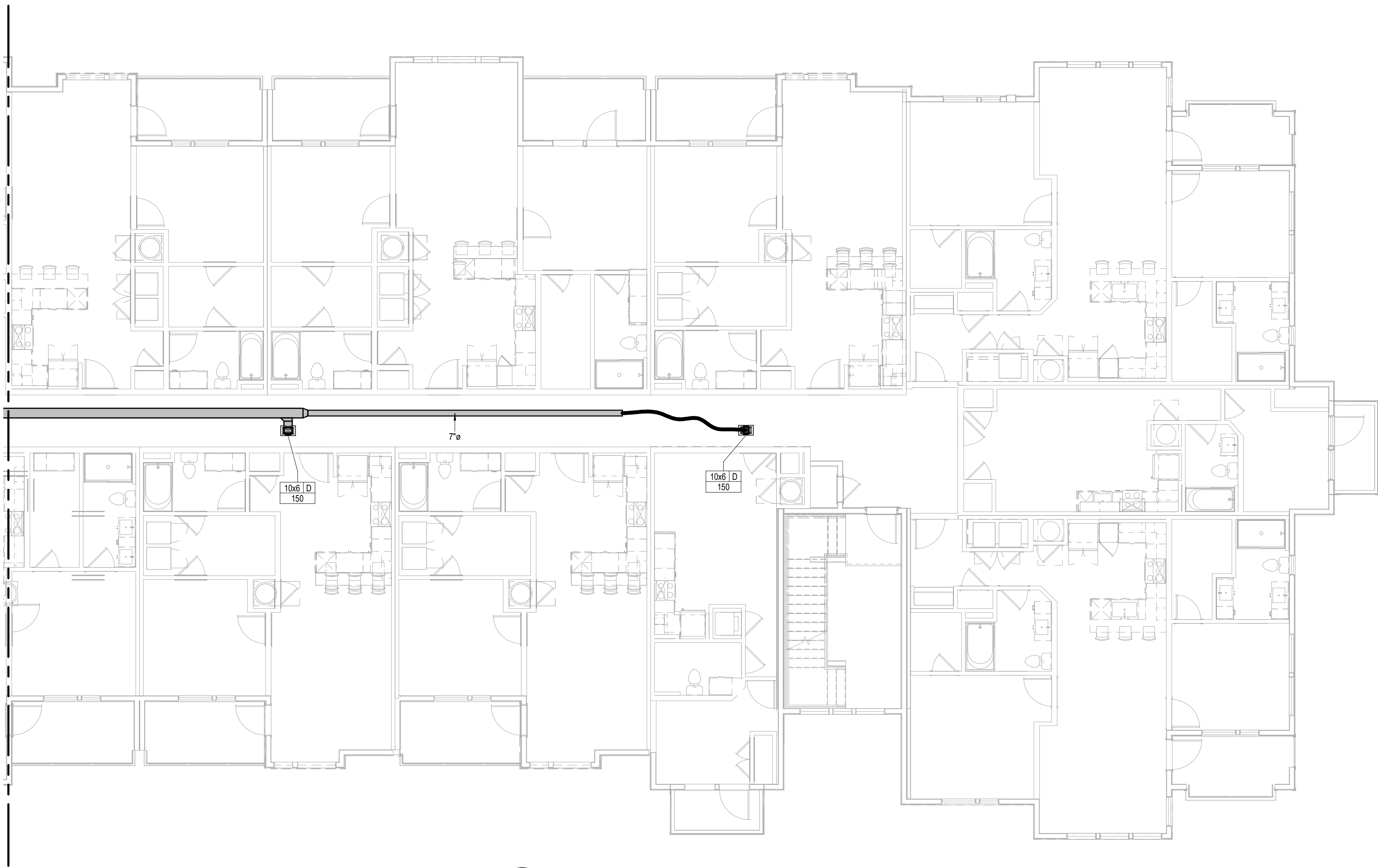
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1 **3RD FLOOR BUILDING PLAN - A**
HVAC
1/8" = 1'-0"



2 **3RD FLOOR BUILDING PLAN - B**
HVAC
1/8" = 1'-0"

NOTES:	
1.	COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2.	ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3.	SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4.	ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5.	FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 10 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6.	RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT.
7.	ROUTE DSS AND UNIT DRAINS TO FLOOR DRAINS.
LEGEND:	
①	OUTSIDE AIR DAMPER CONTROL WITH BALANCING DAMPER - SEE DETAIL
②	CEILING RADIATION DAMPER AT MEMBRANE.
③	PROVIDE 2' GALVANIZED PAN FOR AHUs AND DRAIN JUST THRU CEILING OVER BREAK ROOM SINK.

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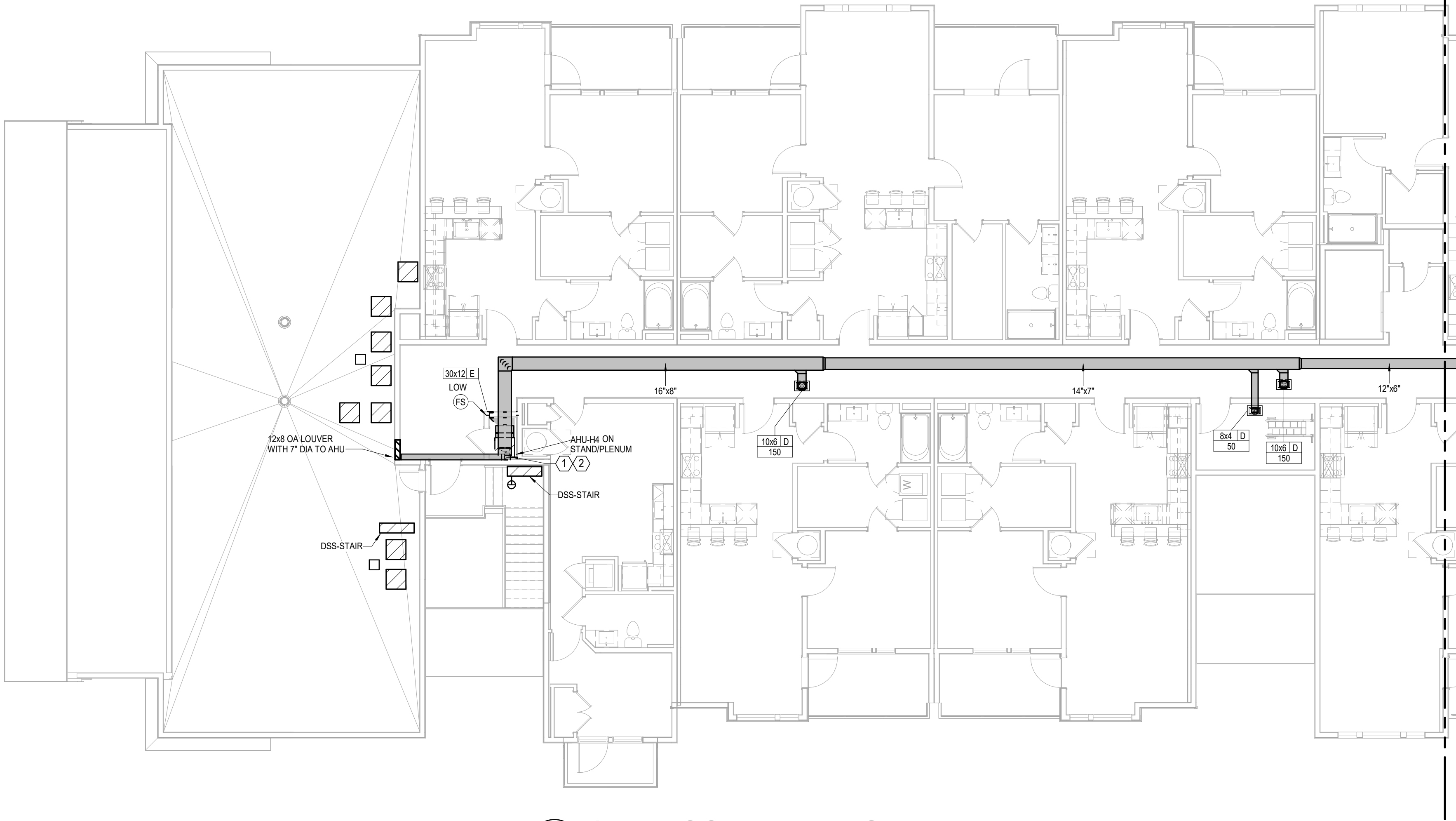
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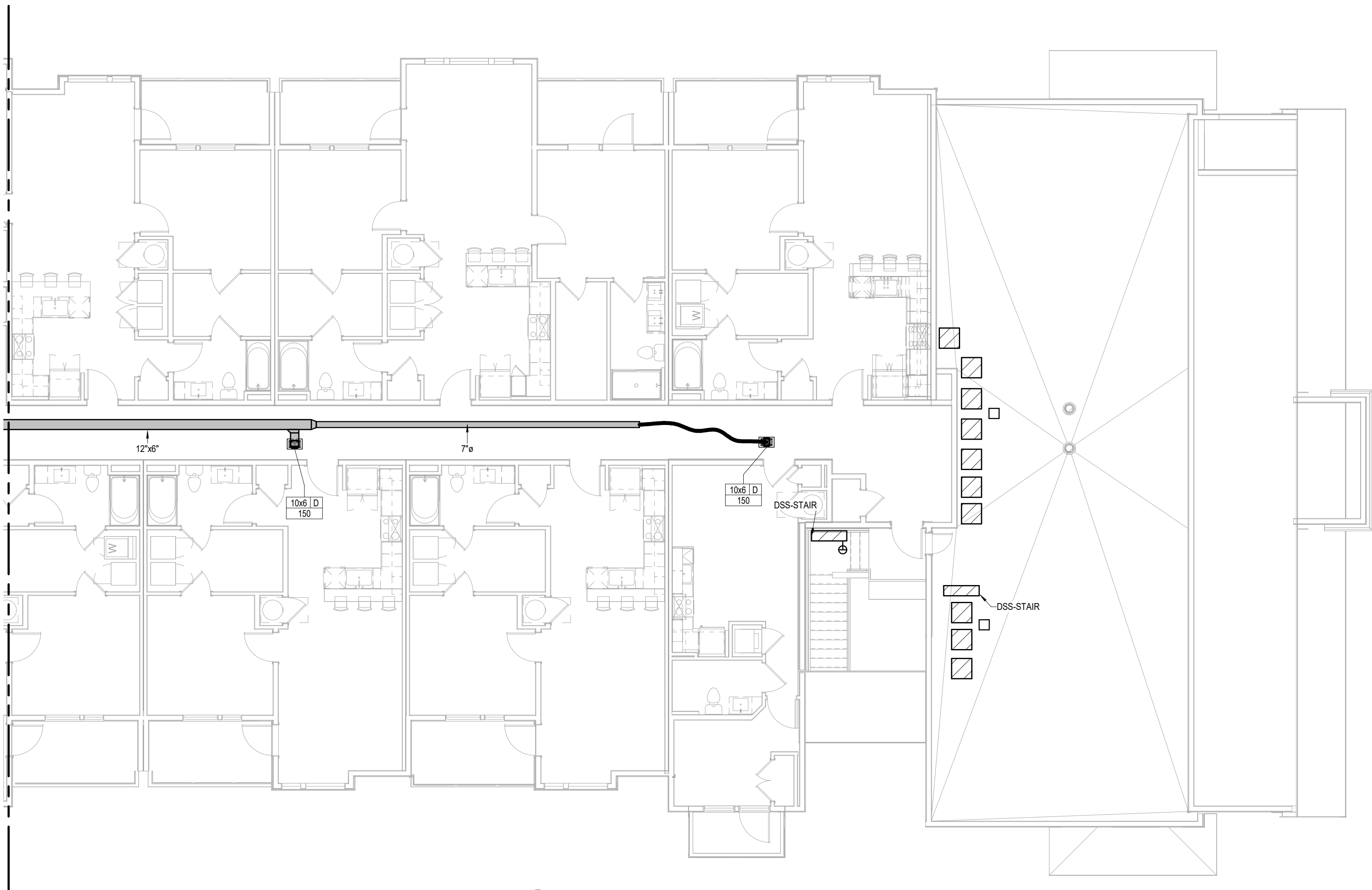
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1 **4TH FLOOR BUILDING PLAN - A**
HVAC
1/8" = 1'-0"



2 **4TH FLOOR BUILDING PLAN - B**
HVAC
1/8" = 1'-0"

NOTES:	
1.	COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2.	ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
3.	SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
4.	ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
5.	FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 10 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
6.	RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT.
7.	ROUTE DSS AND UNIT DRAINS TO FLOOR DRAINS.
LEGEND:	
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NOTES:	
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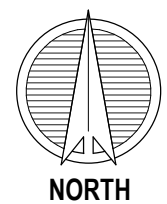
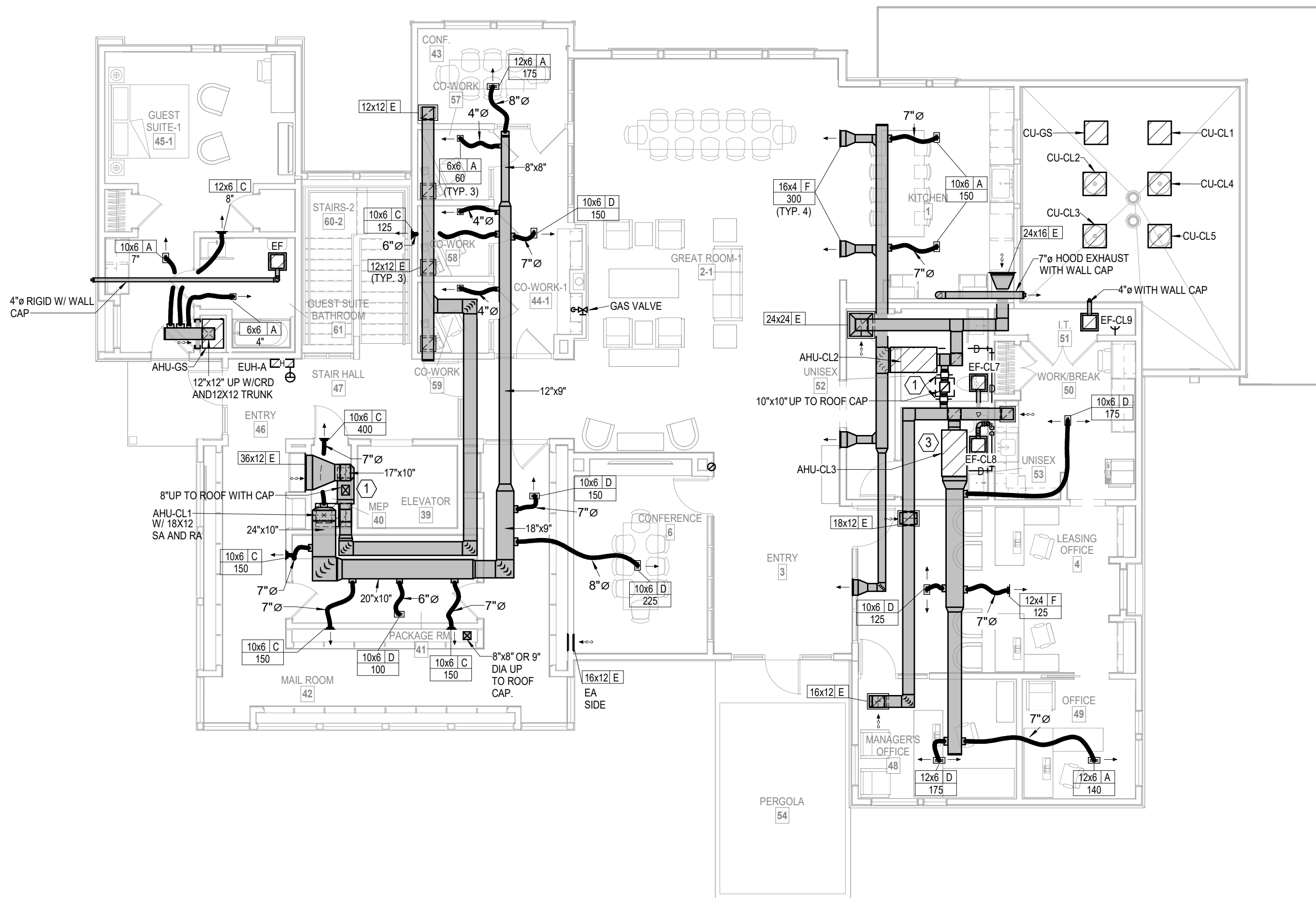
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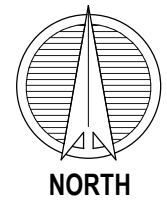
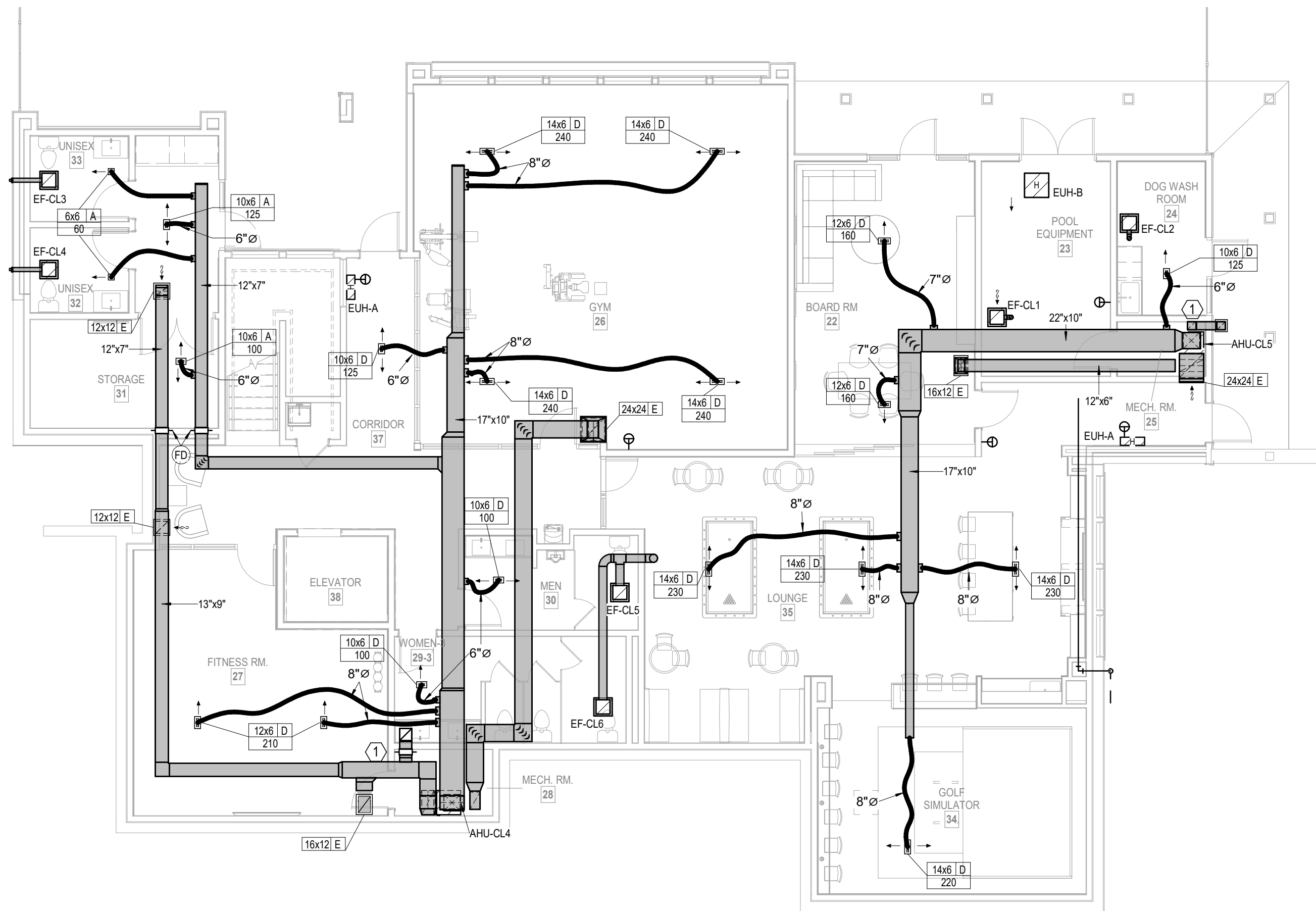
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1 1ST FLOOR CLUBHOUSE PLAN
HVAC
1/8" = 1'-0"



2 LOWER LEVEL CLUBHOUSE
HVAC
1/8" = 1'-0"

NOTES:	
1.	COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
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1
UNIT STUDIO
HVAC
1/4" = 1'-0"

2
UNIT STUDIO ALT.
HVAC
1/4" = 1'-0"

3
UNIT A1
HVAC
1/4" = 1'-0"
UNIT A1 - TYPE A SIMILAR

4
UNIT A1 - ALT
HVAC
1/4" = 1'-0"

5
UNIT A2
HVAC
1/4" = 1'-0"

6
UNIT B2
HVAC
1/4" = 1'-0"
UNIT B2 - TYPE A SIMILAR

UNIT MECHANICAL NOTES:
1. ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.
2. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHU'S AND WATER HEATERS.
3. ALL CONDENSING UNITS ARE ROOF MOUNTED.
4. MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SET.
5. PROVIDE GUY GRAY MODEL DB350/DB3D DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.
6. GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
7. MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS. DRYER VENT CAPS SHALL HAVE 4" DEEP BY 4" WIDE OPENING FOR AIR FLOW.
8. ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
9. EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.
10. USE RA GRILLE AT HVAC CLOSET AS CRD ACCESS, POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.
11. TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.
12. TOP FLOOR EXHAUST VENT TO ROUTE THROUGH ROOF OR SIDEWALL OF HIGH ROOF TRANSITION.
13. DRAIN AHUs AND DSS TO FLOOR DRAIN, JAN. SINK OR SINK TAILPIECE.

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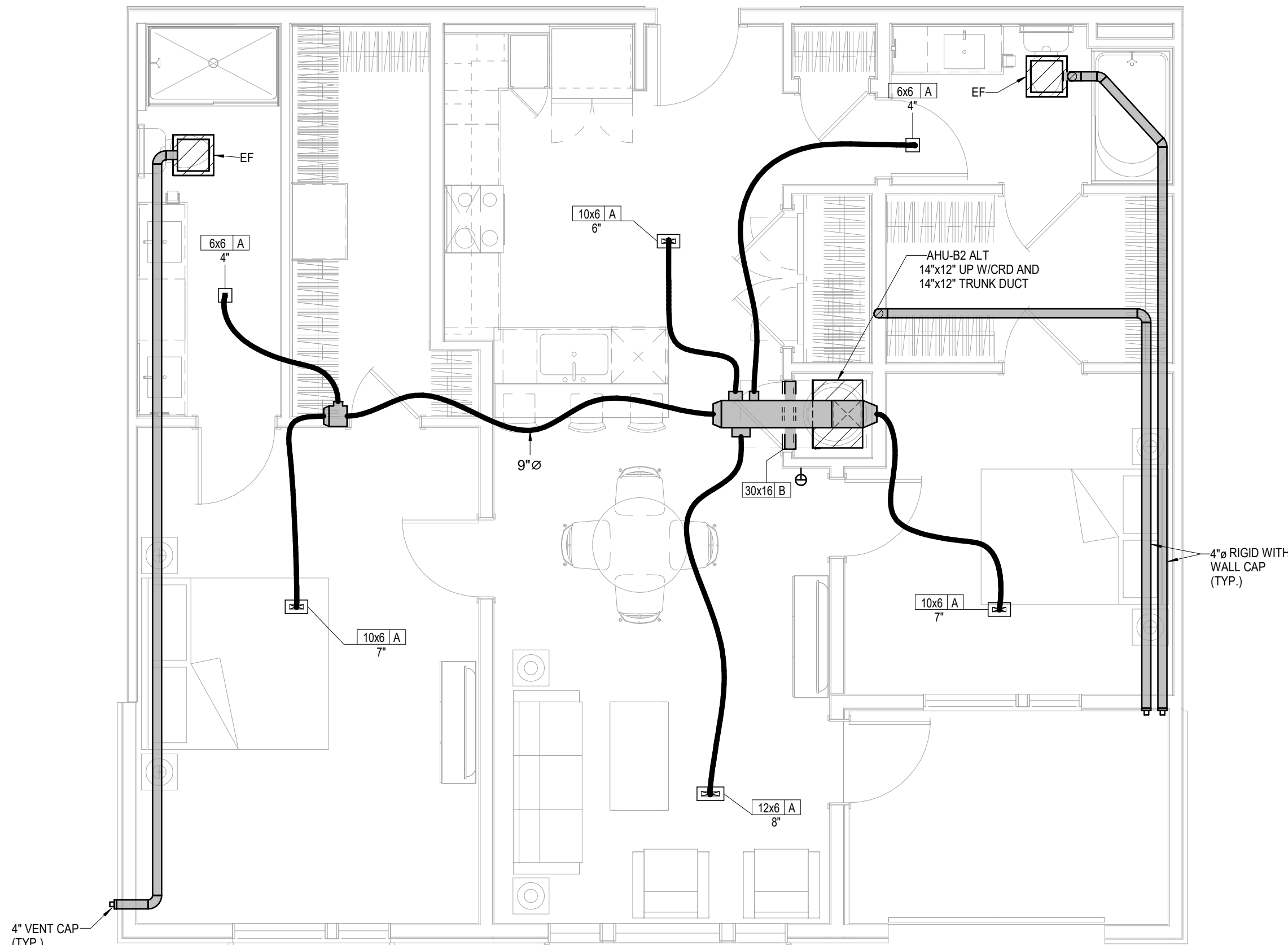
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1

UNIT B2 - ALT 1&2

HVAC

1/4" = 1'-0"

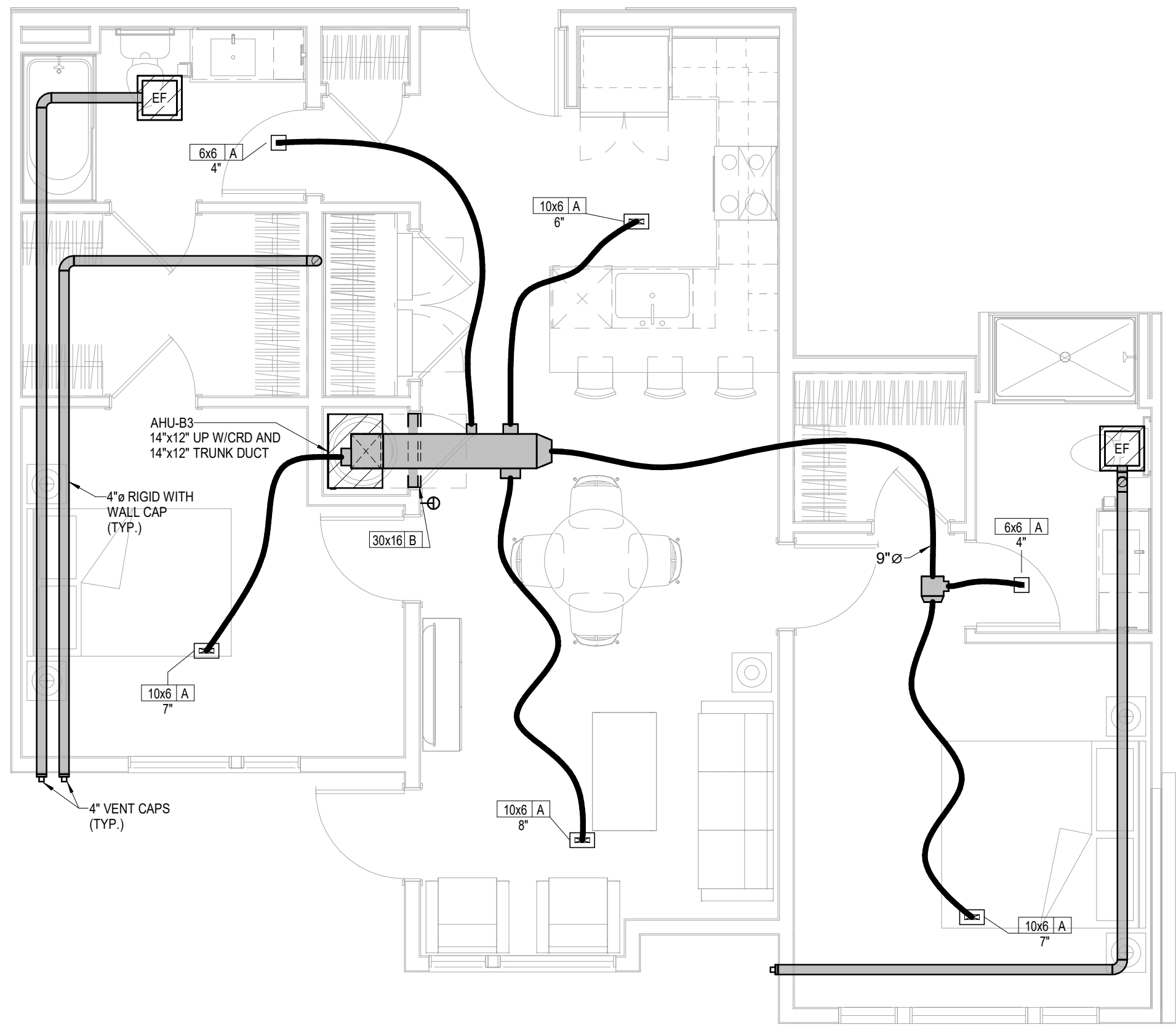


2

UNIT B3

HVAC

1/4" = 1'-0"

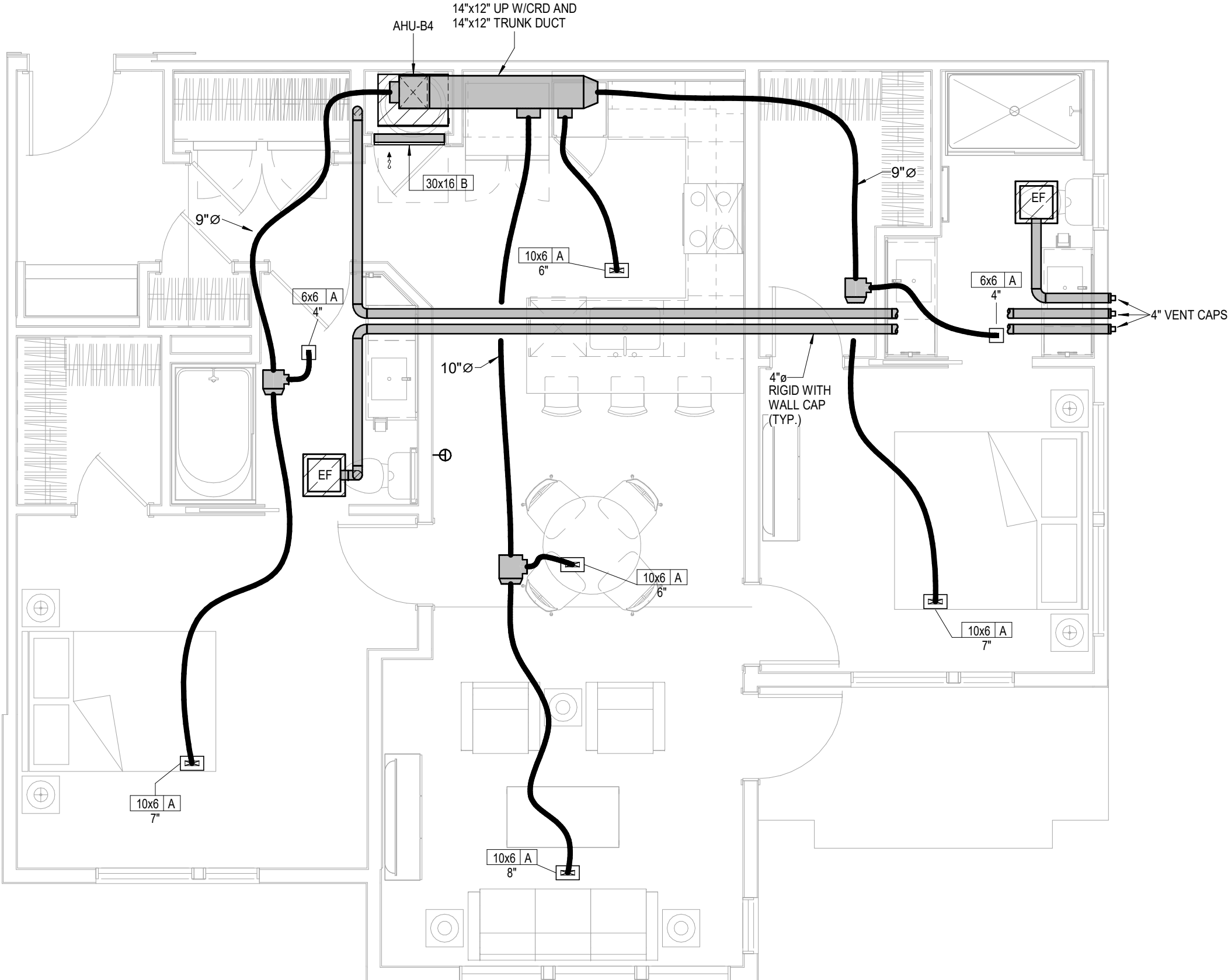


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UNIT B4

HVAC

1/4" = 1'-0"



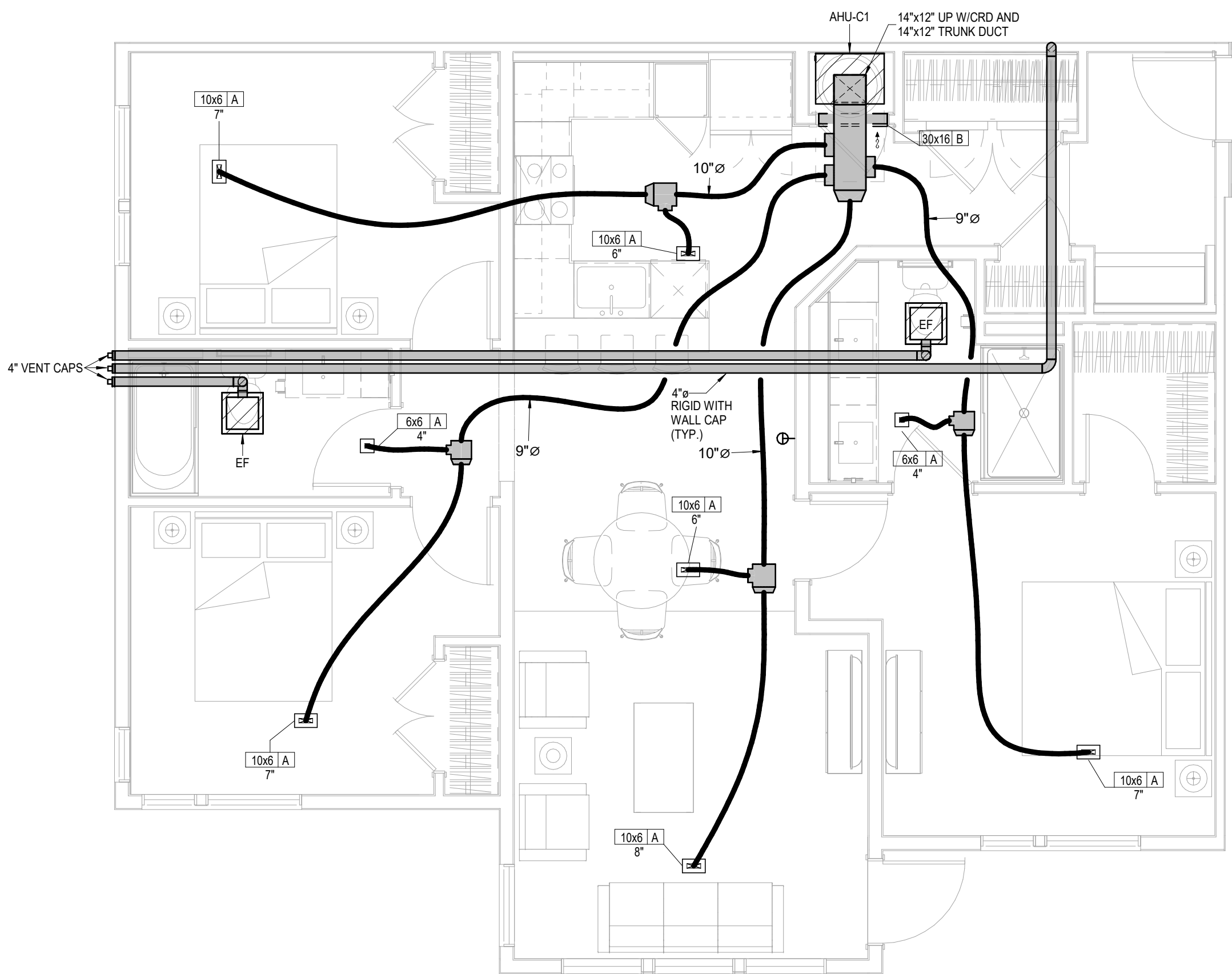
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UNIT C1

HVAC

1/4" = 1'-0"

UNIT C1 - TYPE A SIMILAR



UNIT MECHANICAL NOTES:

1.

ALL TYPE "A" SUPPLY REGISTERS HAVE A UL555C CEILING RADIATION DAMPER UNLESS NOTED OTHERWISE. PROVIDE CRD UNLESS NOTED OTHERWISE AT AHU DISCHARGE AND RATED MEMBRANE.

2.

PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHU'S AND WATER HEATERS.

3.

ALL CONDENSING UNITS ARE ROOF MOUNTED.

4.

MANUFACTURER SHALL PROVIDE ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING LONG LINE SET.

5.

PROVIDE GUY GRAY MODEL DB350/DB3D DRYER VENT BOX AT ALL DRYER LOCATIONS. NOTE TOP FLOOR SHALL ROUTE THRU FLOOR BELOW.

6.

GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.

7.

MAINTAIN 3 FT. FROM EXHAUST/VENTS TO BUILDING OPENINGS. DRYER VENT CAPS SHALL HAVE 4" DEEP BY 4" WIDE OPENING FOR AIR FLOW.

8.

ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.

9.

EXHAUST FANS AT TOP FLOOR MAY VENT TO ROOF.

10.

USE RA GRILLE AT HVAC CLOSET AS CRD ACCESS. POSITION CORRECTLY. SIZE MAY VARY WITH SAME AREA.

11.

TOP FLOOR DUCTS SHALL BE BELOW THE ATTIC INSULATION SHALL BE R-8 INSULATED AND SEALED TO PREVENT CONDENSATION.

12.

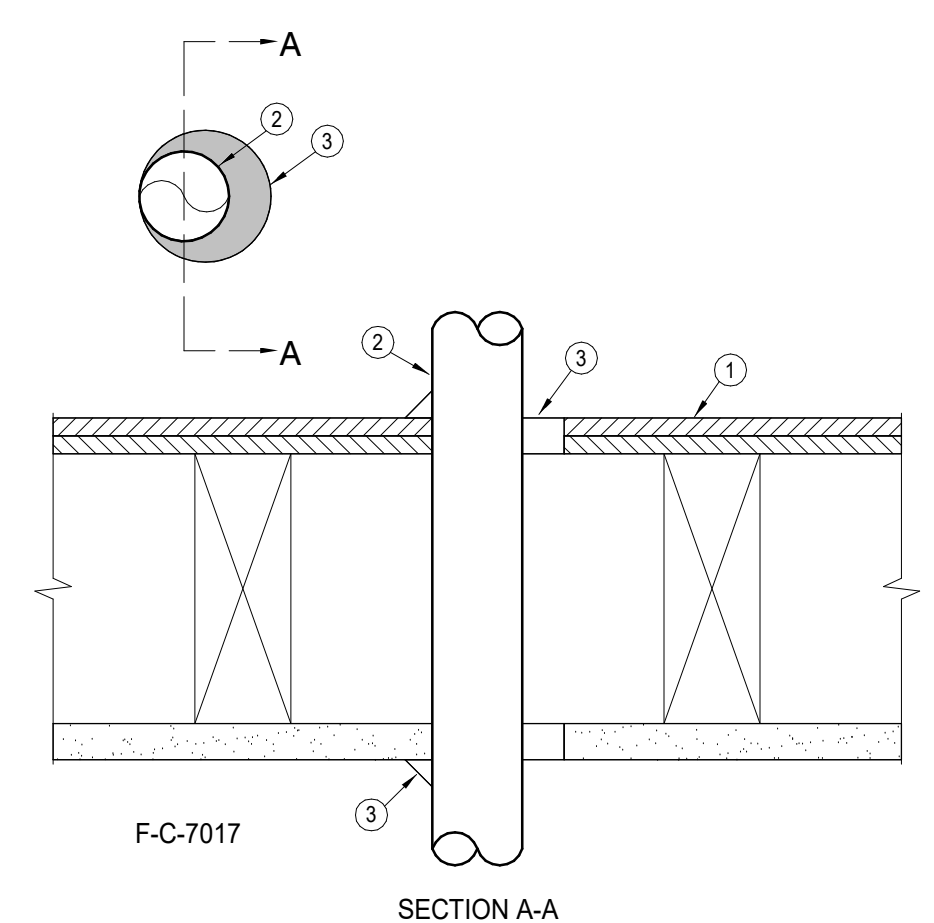
TOP FLOOR EXHAUST VENT TO ROUTE THROUGH ROOF OR SIDEWALL OF HIGH ROOF TRANSITION.

13.

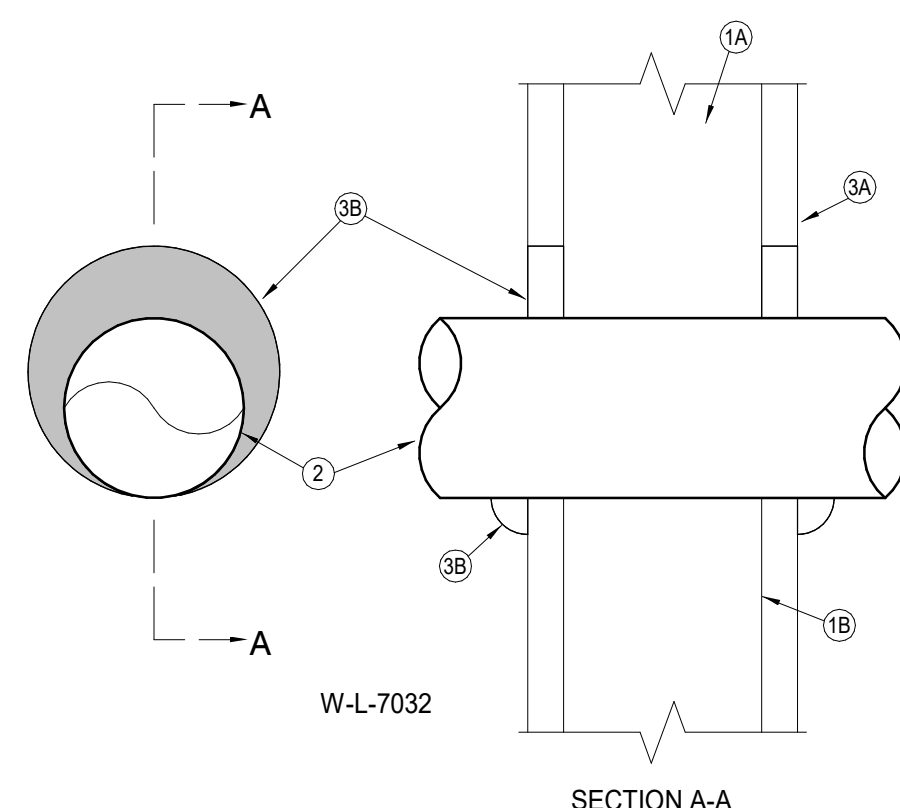
DRAIN AHU's AND DSS TO FLOOR DRAIN, JAN. SINK OR SINK TAILPIECE.



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FIRE STOP SYSTEM F-C-7017 DETAIL



FIRE STOP SYSTEM W-L-7032 DETAIL

LEGEND:

1 FLOOR-CEILING ASSEMBLY - THE 1HR FIRE RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL L500 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE GENERAL CONSTRUCTION DETAILS OF THE FLOOR-CEILING ASSEMBLY ARE SUMMARIZED BELOW:

A. FLOORING SYSTEM - LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX. DIAMETER OF OPENING IS 5" (127mm).

B. WOOD JOISTS - NOM 10" (254mm) DEEP (OR DEEPER) LUMBER, STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING AS REQUIRED AND WITH ENDS FIRESTOPPED.

C. GYPSUM BOARD* - NOM 4" (102mm) WIDE BY 5/8" (16mm) THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. GYPSUM BOARD SECURED TO WOOD JOISTS OR FURRING CHANNELS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX. OF OPENING IS 6" BY 5 1/2" (152mm BY 140mm).

1.1 CHASE WALL (OPTIONAL, NOT SHOWN) - THE DUCT (ITEM 2) MAY BE ROUTED THROUGH A FIRE-RATED SINGLE, DOUBLE OR STAGGERED WOOD STUD/GYPSUM BOARD CHASE WALL HAVING A FIRE RATING CONSISTENT WITH THAT OF THE FLOOR-CEILING ASSEMBLY. THE CHASE WALL SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - NOM 2" BY 6" (51mm BY 152mm) OR DOUBLE NOM 2" BY 4" (51mm BY 102mm) LUMBER STUDS.

B. SOLE PLATE - NOM 2" BY 6" (51mm BY 152mm) OR PARALLEL 2" BY 4" (51mm BY 102mm) LUMBER PLATES, TIGHTLY BUTTED.

C. TOP PLATE - THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2" BY 6" (51mm BY 152mm) OR TWO SETS OF PARALLEL 2" BY 4" (51mm BY 102mm) LUMBER PLATES, TIGHTLY BUTTED. MAX. OF OPENING IS 6" BY 5 1/2" (152mm BY 140mm).

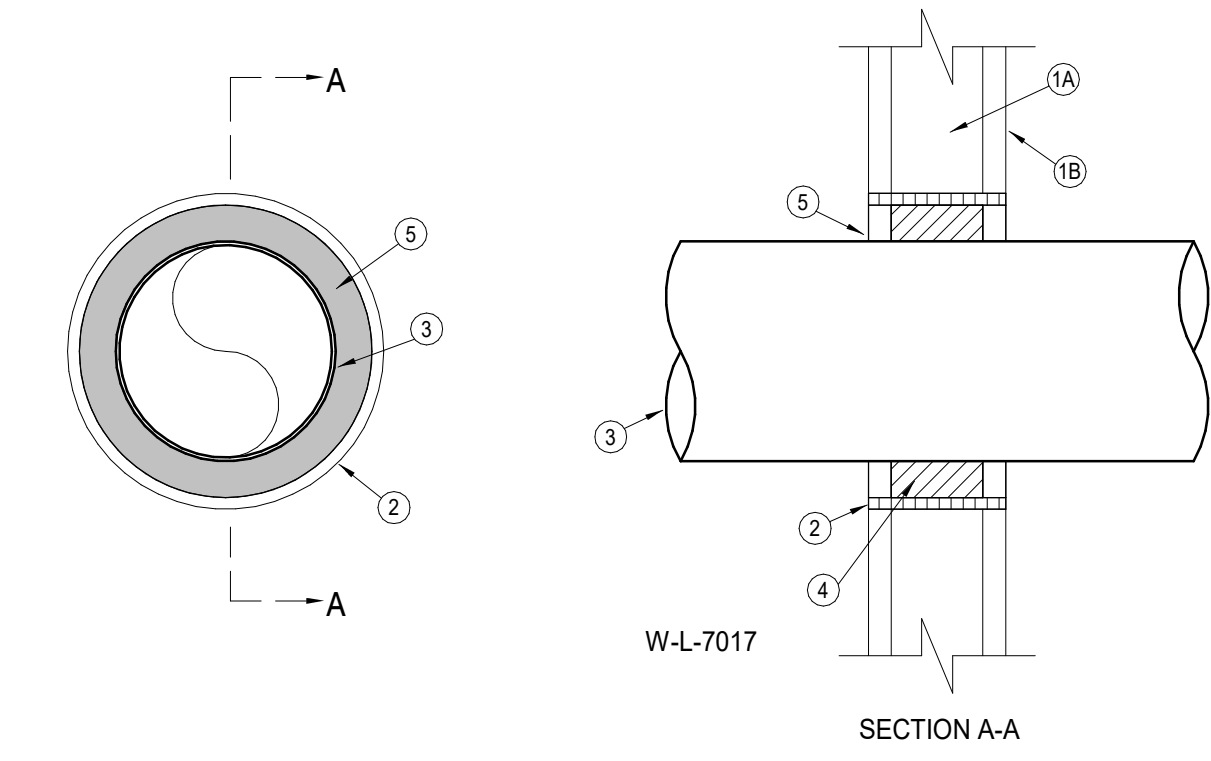
D. GYPSUM BOARD* - THICKNESS TYPE, NUMBER OR LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN INDIVIDUAL WALL AND PARTITION DESIGN.

2 STEEL DUCT - NOM 4" (102mm) DIAMETER (OR SMALLER) NO. 30 GAUGE (OR HEAVIER) GALVANIZED STEEL DUCT TO BE INSTALLED ECCENTRICALLY OR CONCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE DUCT AND THE PERIPHERY OF OPENING SHALL BE MIN. 0" (0mm) (POINT CONTACT) TO MAX 2" (51mm) DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR-CEILING ASSEMBLY.

3 FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN 3/4" (19mm) THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR SOLE PLATE. MIN. 5/8" (16mm) THICKNESS OF CAULK APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING OR TOP PLATE. MIN 1/2" (13mm) DIAMETER BEAD OF CAULK APPLIED AT THE DUCT/FLOOR OR SOLE PLATE INTERFACE AT POINT CONTACT LOCATION ON THE TOP SIDE OF ASSEMBLY AND AT THE DUCT/CEILING OR TOP PLATE INTERFACE AT POINT CONTACT LOCATION ON BOTTOM SIDE OF ASSEMBLY.

3M COMPANY - FIRE DAM 150+ CP 25WB+CAULK OR FB-3000 WT SEALANT.

* BEARING THE UL CLASSIFICATION MARK



FIRE STOP SYSTEM W-L-7017 DETAIL

LEGEND:

1 WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2" BY 4" LUMBER SPACED 16" O.C. STEEL STUDS TO BE MIN. 2 1/2" WIDE AND SPACED MAX. 24" O.C.

B. GYPSUM BOARD* - ONE LAYER OF NOM 5/8" THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIAMETER OF OPENING IS 8 5/8"

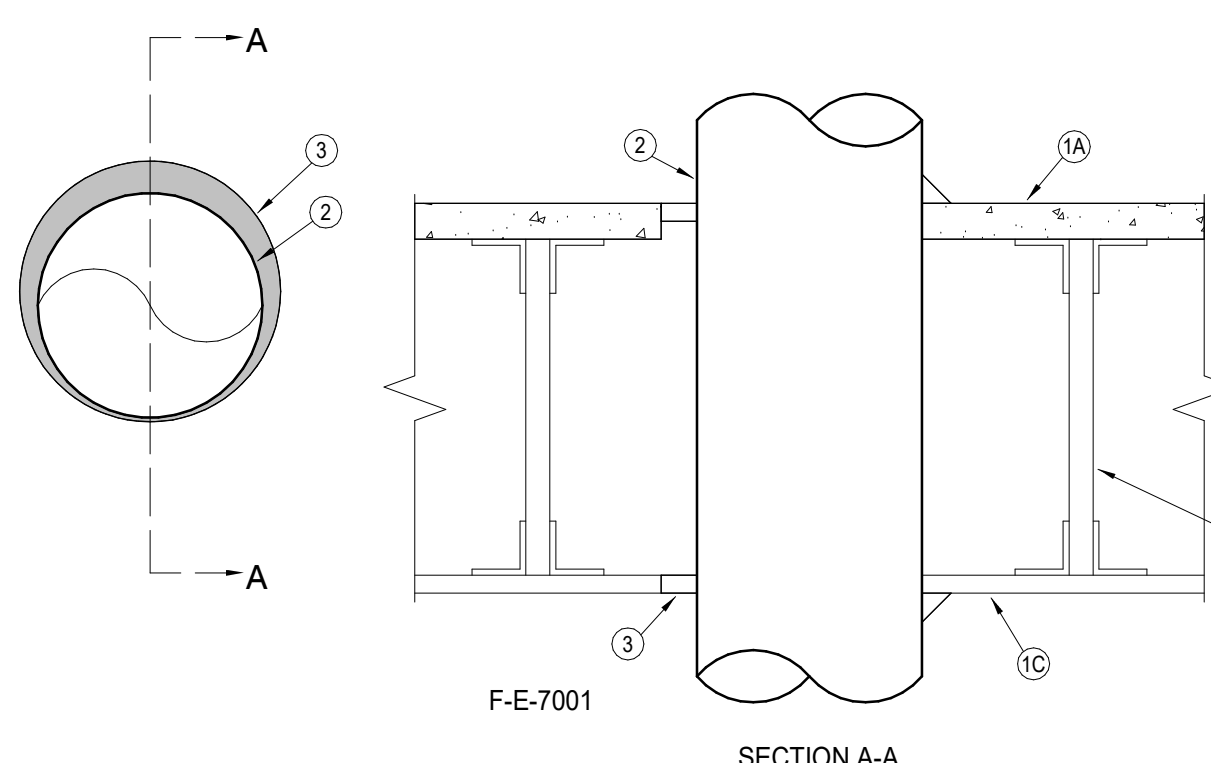
2 METALLIC SLEEVE - NOM 8" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST INTO WALL ASSEMBLY WITH JOINT COMPOUND AND INSTALLED FLUSH WITH WALL SURFACES.

3 AIR DUCT - NOM 6" DIAMETER (OR SMALLER) PREFABRICATED NO. 28 MSG GALVANIZED SHEET METAL DUCT. A MIN. 1/2" TO MAX. 1 1/2" ANNULAR SPACE IS REQUIRED WITHIN THE FIRESTOP SYSTEM. DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

4 FORMING MATERIAL* - FOAMED PLASTIC FORMING MATERIAL FOAMED INTO OPENING AS A PERMANENT FORM. FORMING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CF810, CF812 OR CF511 FOAM SEALANT

5 FILL, VOID OR CAVITY MATERIAL* - MIN. 5/8" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE SEALANT

* BEARING THE UL CLASSIFICATION MARK



FIRE STOP SYSTEM F-E-7001 DETAIL

LEGEND:

1 FLOOR-CEILING ASSEMBLY - THE 1HR FIRE RATED CONCRETE AND STEEL JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL G500 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY, AS SUMMARIZED BELOW:

A. FLOORING - NORMAL OR LIGHTWEIGHT CONCRETE AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN. MAX. DIAMETER OF OPENING IS 11" (279mm).

B. JOISTS - STEEL JOISTS OR STRUCTURAL STEEL MEMBERS* AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN.

C. GYPSUM BOARD* - MIN. 5/8" (16mm) THICK, SCREW-ATTACHED TO FURRING CHANNELS AS SPECIFIED IN THE INDIVIDUAL G500 SERIES DESIGN. MAX. DIAMETER OF OPENING IS 11" (279mm).

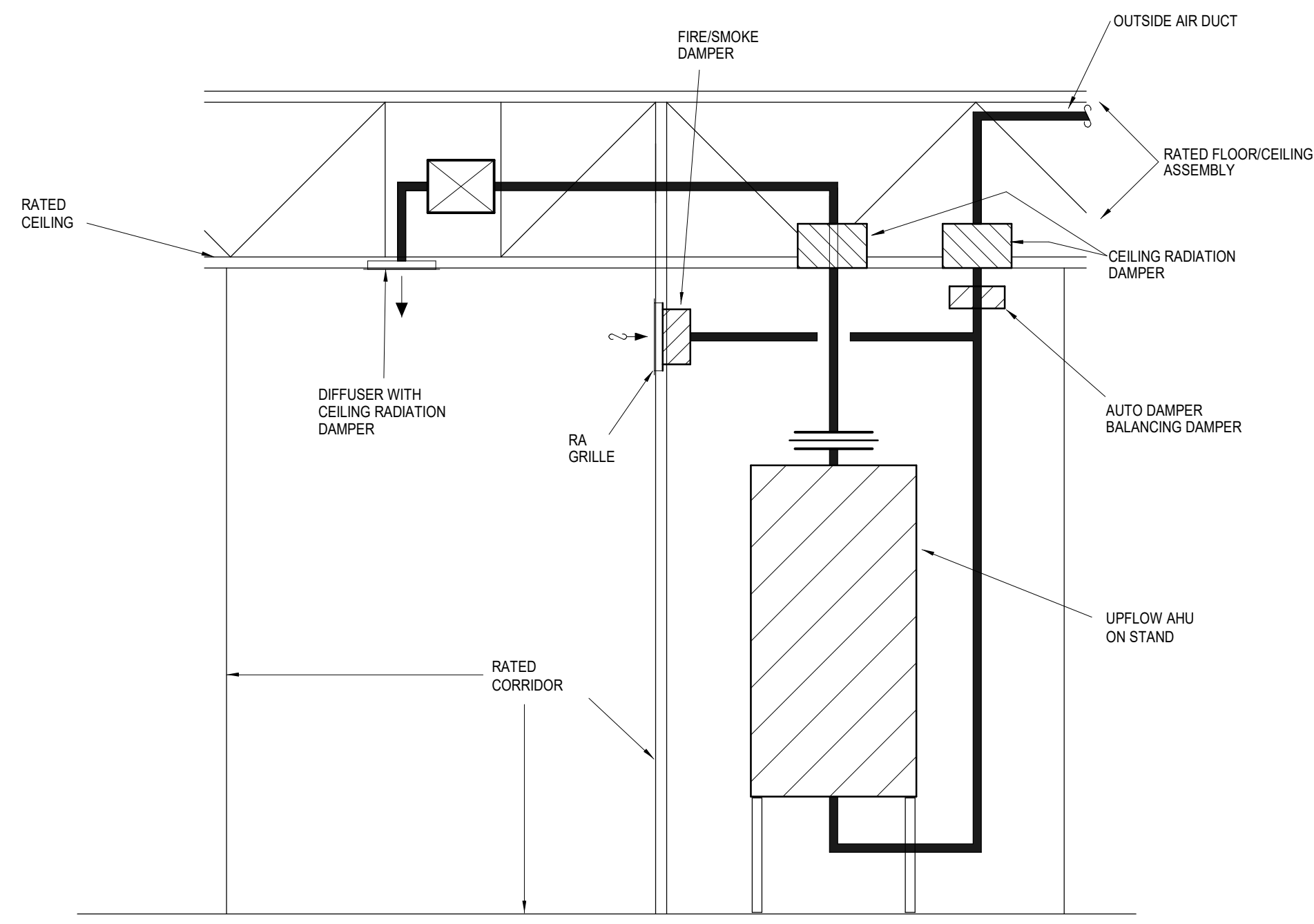
2 STEEL VENT DUCT - NOM 4" (102mm) DIAMETER (OR SMALLER) NO. 30 GAUGE (OR HEAVIER) GALVANIZED STEEL VENT DUCT OR NOM 10" (254mm) DIAMETER (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) GALVANIZED STEEL VENT DUCT. DIAMETER OF OPENINGS TO BE MAX. 1" (25mm) LARGER THAN OUTSIDE DIAMETER OF DUCT. DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY IN OPENING. THE ANNULAR SPACE BETWEEN THE DUCT AND THE PERIPHERY OF OPENING SHALL BE MIN. 0" (POINT CONTACT) TO MAX. 1" (0 TO MAX. 25mm). DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY.

3 FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN. 3/4" (19mm) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. MIN. 5/8" (16mm) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING. AN ADDITIONAL MIN. 1/4" (6mm) BEAD OF FILL MATERIAL APPLIED AT THE DUCT/FLOOR INTERFACE AT POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR AND AT THE DUCT/CEILING INTERFACE AT POINT CONTACT LOCATION ON THE LOWER SURFACE OF CEILING.

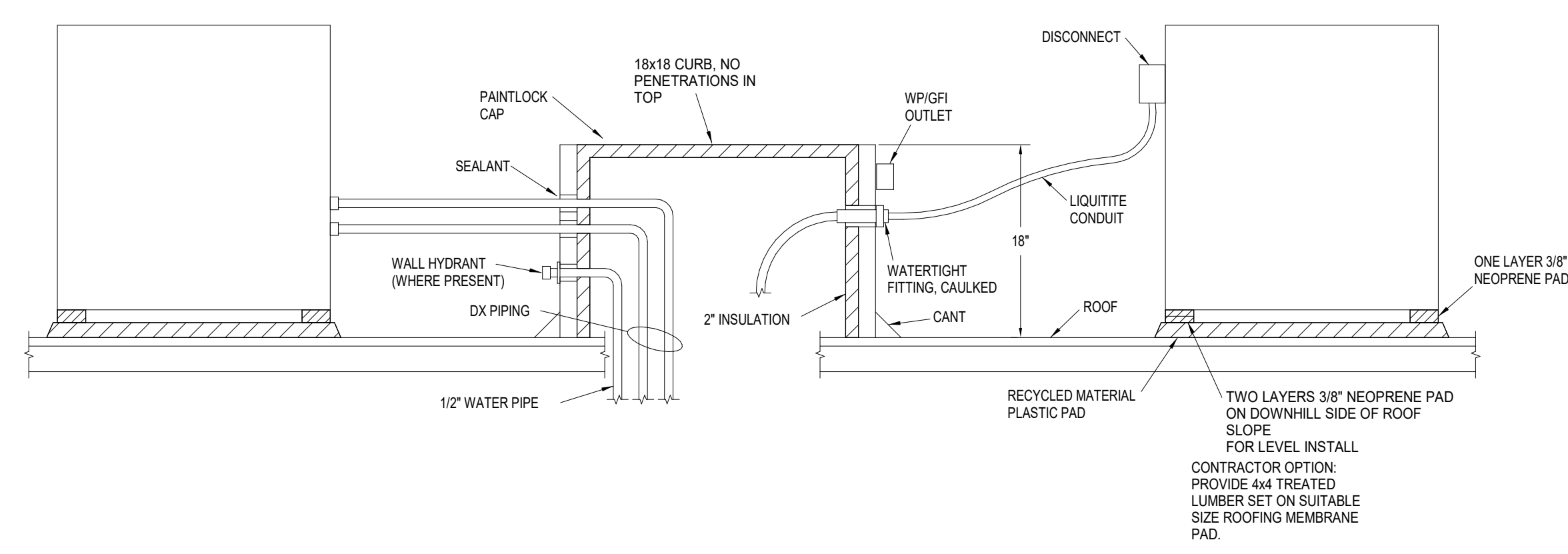
3M COMPANY - CP 25WB+IC 15WB+CAULK OR FB-3000 WT SEALANT.

* BEARING THE UL CLASSIFICATION MARKING.

1 FIRE STOP SYSTEM DETAILS
NOT TO SCALE



2 CORRIDOR AHU DETAIL - WALL RETURN
NOT TO SCALE



3 ROOF MOUNTED CONDENSING UNIT DETAIL
PLUMBING
1/8" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
P. 913.831.1111
F. 913.831.1111
NSPJ ARCHITECTS
ARCHITECTS
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

ARCHITECTURE
LANDSCAPE
ARCHITECTURE
ENERGY SERVICES
P. 913.831.1111
F. 913.831.1111
NSPJ ARCHITECTS
ARCHITECTS
3515 W. 75TH ST., SUITE 201
PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI
RICHARD L. BLACKWELL
BEAR MORE
PROFESSIONAL ENGINEER
3-24-23

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

DRAWING RELEASE LOG

REVISIONS:

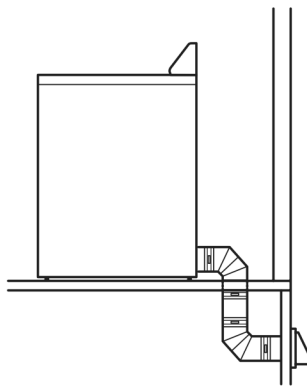
DATE: 3/24/2023
JOB NO. 696521
DRAWN BY: Author
SHEET NO. MP1.02

LS&A
Latimer Sommers & Associates P.A.
CONSULTING ENGINEERS
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8625 College Boulevard, Suite 102
Overland Park, Kansas 66210
Telephone: (785) 233-3232
Email: lsapa@lsapa.com
LSA PROJECT NO. 2204073

PERMIT

TOP LOAD DRYER

Special provisions for mobile home installations:
The exhaust vent must be securely fastened to a noncombustible portion of the mobile home structure and must not terminate beneath the mobile home. Terminate the exhaust vent outside.



Determine vent path:

- Select route that will provide straightest and most direct path outdoors.
- Plan installation to use fewest number of elbows and turns.
- When using elbows or making turns, allow as much room as possible.
- Bend vent gradually to avoid kinking.
- Use as few 90° turns as possible.

Determine vent length and elbows needed for best drying performance:

- Use following "Vent System Chart" to determine type of vent material and hood combinations acceptable to use.
NOTE: Do not use vent runs longer than those specified in "Vent System Chart." Exhaust systems longer than those specified will:
 - Shorten life of dryer.
 - Reduce performance, resulting in longer drying times and increased energy usage.

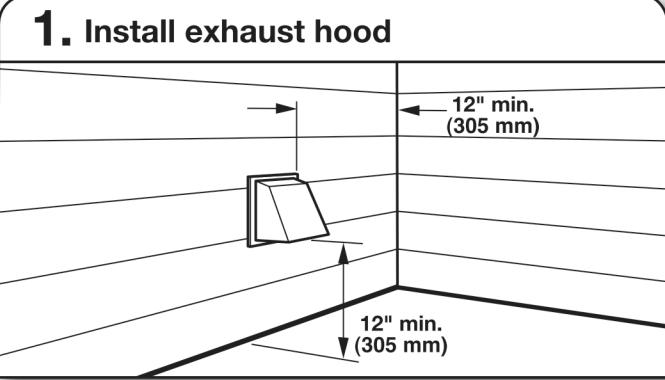
The "Vent System Chart" provides venting requirements that will help achieve best drying performance.

Vent System Chart			
Number of 90° turns or elbows	Type of vent	Box/louvered hoods	Angled hoods
0	Rigid metal	64 ft. (20 m)	58 ft. (17.7 m)
1	Rigid metal	54 ft. (16.5 m)	48 ft. (14.6 m)
2	Rigid metal	44 ft. (13.4 m)	38 ft. (11.6 m)
3	Rigid metal	35 ft. (10.7 m)	29 ft. (8.8 m)
4	Rigid metal	27 ft. (8.2 m)	21 ft. (6.4 m)

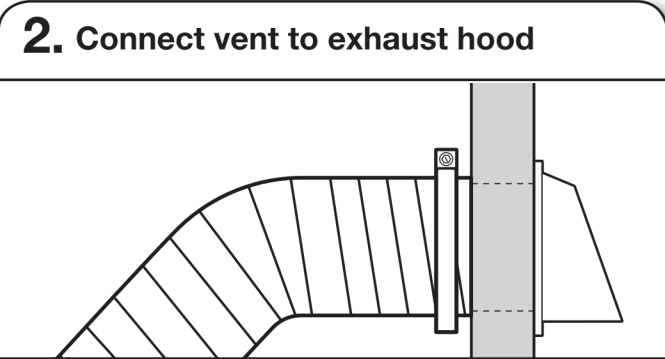
Vent System Chart
(29" Wide Long Vent WED/WGD4870 and WED/WGD4975 Models Only)

Number of 90° turns or elbows	Type of vent	Box/louvered or angled hoods
0	Rigid metal	160 ft. (48.8 m)
1	Rigid metal	150 ft. (45.7 m)
2	Rigid metal	140 ft. (42.7 m)
3	Rigid metal	130 ft. (39.6 m)
4	Rigid metal	120 ft. (36.6 m)
5	Rigid metal	110 ft. (33.5 m)

INSTALL VENT SYSTEM



Install exhaust hood and use caulking compound to seal exterior wall opening around exhaust hood.



Vent must fit over the exhaust hood. Secure vent to exhaust hood with 4" (102 mm) clamp. Run vent to dryer location using straightest path possible. Avoid 90° turns. Use clamps to seal all joints. Do not use duct tape, screws, or other fastening devices that extend into interior of vent to secure vent, because they can catch lint.



Ceiling Radiation Damper
3 Hour Rated
For Use in Static Systems
Models 5680 Submittal

Filename: Prefco Submittal 5680 Rev 27/12/14

Application

The Model 5680 provides fire and heat radiation protection of HVAC penetrations in any floor/ceiling and roof/ceiling assemblies with restrained or unrestrained ratings of 3 hours or less. Standard fire dampers (1 1/2 & 3 hr.) do not provide the required protection.

Standard Construction

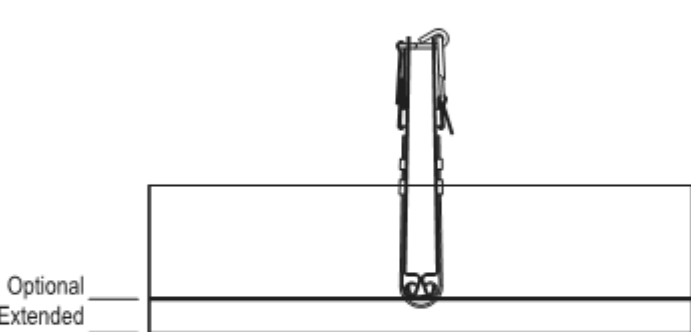
- **Frame**
21 GA Galvanized Steel
- **Blades - Full Length Hinge**
21 GA Galvanized Steel
- **Closure Springs**
Stainless Steel
- **Fusible Link - UL-33**
UL Listed 212F (standard) 165 F (optional)
McCabe Link (optional)
- **Insulation (blade)**
Ceramic Fiber

Model 5680 meets or complies with the following as a ceiling radiation damper.

- **NFPA Standards**
- **All major building codes, including BOCA, ICBO/UBC, SBCCI & ICC International Code**

- UL 555C Listing 3 Hour - File #R7365
- CA State Fire Marshall - #3225-1518-103

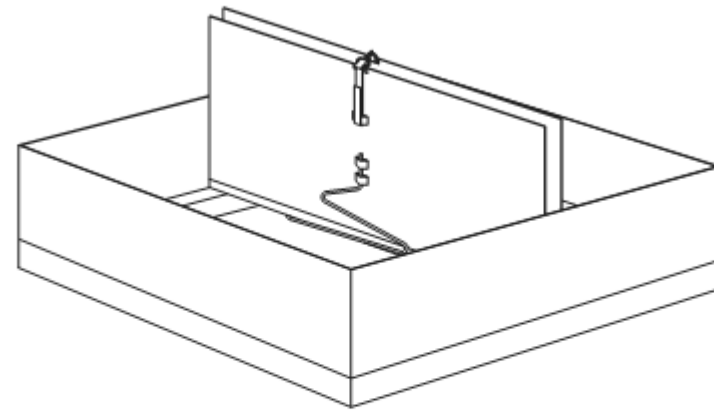
High Free Area Design
Optional Volume Control Device (5965)



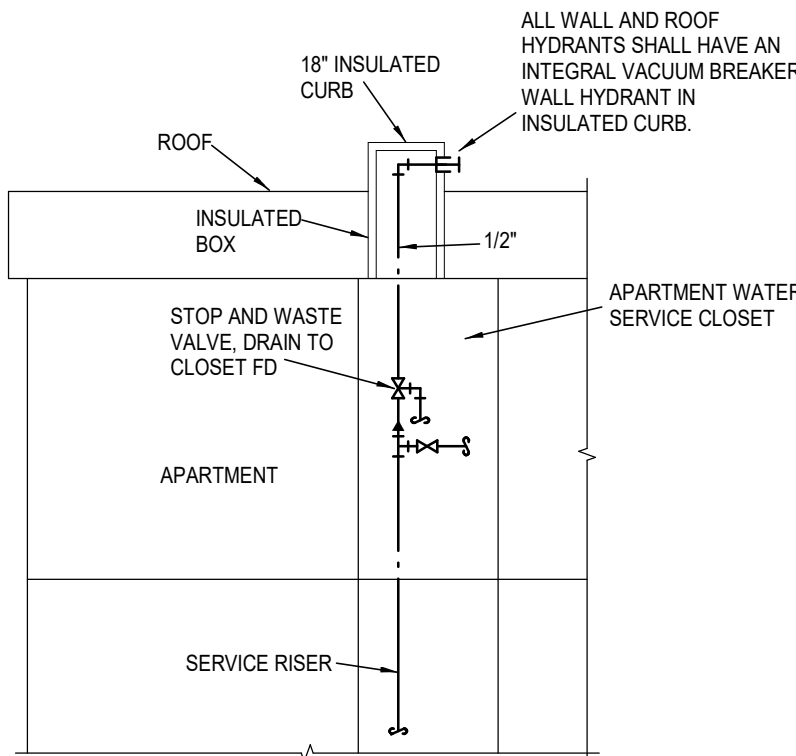
Standard Sizes (duct)	
Minimum	4 1/2" x 4 1/2"
Maximum	24" wide or 30" long - 576 sq. in. total max.

NOTES:

- Dampers are fabricated 3/16" under ordered diameter for clearance
- Approved for use in any UL Fire Resistance Directory Series Designs
- For 2 hour rating, refer to Model 5660

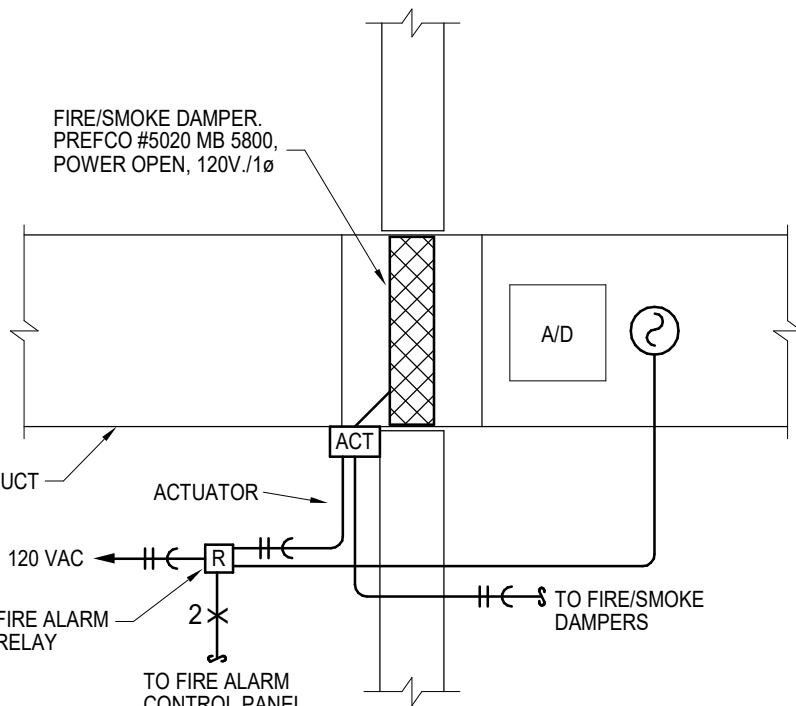


A dim. is always width of blades

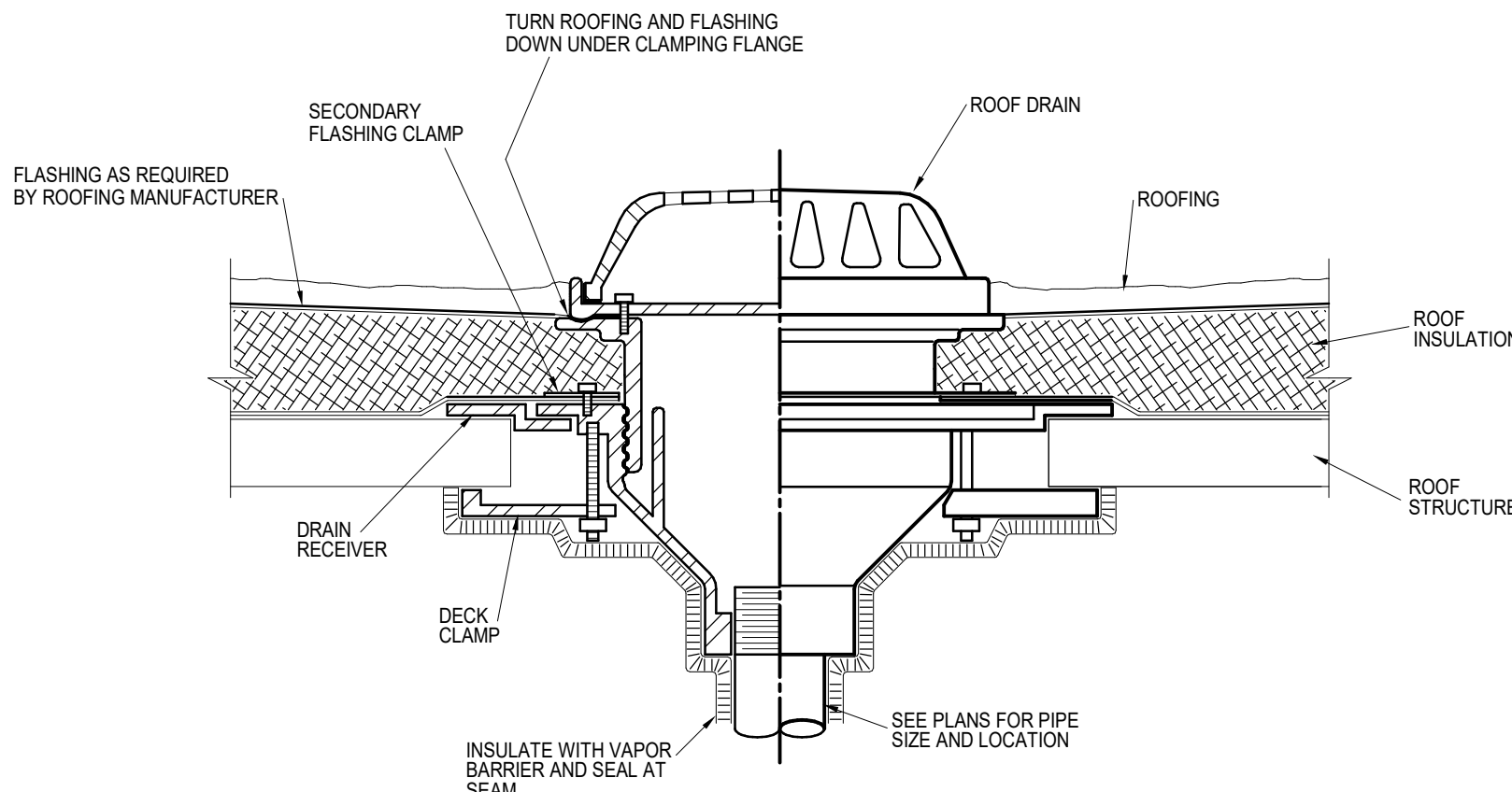


IMPORTANT: HYDRANT MUST BE DRAINED DURING FREEZING TEMPERATURES.

5 ROOF WATER HYDRANT DETAIL
NOT TO SCALE



1 FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



3 ROOF DRAIN DETAIL
NOT TO SCALE

ARCH D 24" x 36"

PLUMBING FIXTURE SCHEDULE													
Mark	Item	Model	Description	Individual Connections				Accessories					
				W	V	CW	HW	Supplies	Stops	Carrier	P-Trap	Drain	Other
P-1, P-1P	Water Closet, Tank Type	Proflo #1201WH with PFTS2000wh	Floor-mounted standard height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide solid plastic closed front elongated white seat with integral bumpers, external check hinges with stainless steel posts. Provide open front seat at public restrooms.	3" or 4"	2"	1/2"		2	1				3
P-1H, P-1HP	Accessible Water Closet, Tank Type	Proflo #1203WH with PFTS2000wh	Floor-mounted ADA height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide solid plastic open front elongated white seat with integral bumpers, external check hinges with stainless steel posts. Provide open front seat at public restrooms.	3" or 4"	2"	1/2"		2	1				3
P-2	Lavatory, Undermount	Gerber 12-790 with Peerless P136-M	22" x 17" oval vitreous china undermount lavatory with overflow. Faucet is 4" o.c. single lever ADA handle, copper waterways, brushed nickel finish.	2"	1 1/2" or 2"	1/2"	1/2"	2	1		1	1	
P-2P	Accessible Lavatory, Countertop	Proflo #PF20174BS with Peerless #PFL11011MBN	20" x 17" oval vitreous china countertop lavatory with overflow. Faucet is 4" o.c. single lever ADA handle, copper waterways, chrome finish.	2"	1 1/2" or 2"	1/2"	1/2"	2, 4	1		1, 2	1	1
P-3	Tub/Shower	Sterling # 71171110-0 Peerless #PTT88775	60" x 30" reinforced resin tub basin with slip-resistant bottom, turn and lock drain outlet. Pressure-balanced single lever handle valve, 2.2 gpm with large head, satin nickel showerhead, turn and lift drain fitting and diverter spout.	2"	2"	1/2"	1/2"						3
P-3W	Tub/Shower	Sterling # 71101110-0 Peerless #PTT88775	60" x 36" reinforced resin tub basin with slip-resistant bottom, turn and lock drain outlet. Pressure-balanced single lever handle valve, 2.2 gpm with large head, satin nickel showerhead, turn and lift drain fitting and diverter spout.	2"	2"	1/2"	1/2"						3
P-3S	60" Shower	Sterling # 721811X0 and Peerless #PTT88775	60" x 36" reinforced resin stall with slip-resistant bottom. Provide pressure balanced 2.2 gpm valve with large head, satin nickel, lever handle. See Arch for door.	2"	2"	1/2"	1/2"						3
P-4	Kitchen Sink	PROFLO #PFSR332274 with Peerless #P18550LFSD	Stainless steel under-mount 20 ga.dual bowl 33" x 22" x 8" deep. Single handle faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug.	2"	2"	1/2"	1/2"	1	1		1	2	1
P-4S	Kitchen Sink - Small	PROFLO #PFUC307A with Peerless #P18550LFSD	Stainless steel under-mount 20 ga.dual bowl 24" x 20" x 9" deep. Single handle faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug.	2"	2"	1/2"	1/2"	1	1		1	2	1
P-4H	Accessible Kitchen Sink	Elkay #GECR3321 with Peerless #P18550LFSD	Stainless steel under-mount 20 ga.dual bowl 33" x 22" x 6" deep with back outlet. Single handle faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug. Install per ADA clearances.	2"	2"	1/2"	1/2"	1	1		1, 2	2	1
P-5	Washer Box	Guy Gray #WB200HATM	Recessed non-metallic with dual PVC/ABS 2" outlets, two angle quarter turn stops with built-in shock absorbers.	2"	2"	1/2"	1/2"	1			3		
P-6	Water Outlet Box	Guy Gray #MIB2haab	Recessed non-metallic with angle quarter turn stop.			1/2"		1					
P-7	Single Bowl Sink	Elkay #DLFR191810PD, with Peerless #P7948LF	Stainless steel under-mount 18 ga single bowl 19" x 18" x 10-1/8" deep with back outlet. Single handle faucet with pull-out sprayer. ISE Badger 1 disposer with cord/plug. Install per ADA clearances.	2"	2"	1/2"	1/2"	1	1		2	2	3
P-8	Janitor's Sink	Fiat #MSB-2424	24" x 24" x 10" white molded stone with stainless steel integral drain, chrome plated brass wall mounted faucet with VB, integral stops, adjustable wall brace, pail hook, 3/4" hose threaded spout and wall shileds.	2" or 3"	2"	1/2"	1/2"				2		2
P-9	Dog Wash	Flying Pig Grooming FP702, with FPTU-ACC and Striem Sidekick	6'-10"x 2'-6" Stainless steel dog wash with ADA cling on ramp.Discharge directly to floor drain.With Striem Sidekick solids interceptor.	2"	2"	1/2"	1/2"	2		1	1	1	
Supplies	1 - Flexible braided stainless steel 2 - Flexible braided compression hose. 3 - Sloan Royal 186 1.0 gpf diaphragm type. 4 - Provide tempering valve below sink set at 110 deg 5-5 Sloan #8111 1.6 gpf diaphragm type sensor-activated flush valve.												
Stops	1 - Angle handle compression												
Carrier	1 - Steel tube floor-mounted in-wall carrier with arms 2 - Cast iron floor mount adjustable carrier for water closet												
P-Trap	1 - PVC with deep escutcheon 2 - Protective trap/supply covers 3 - deep seal PVC trap and 30" standpipe.												
Drain	1 - Metal pop-up with tailpiece 2 - Basket strainers in finish to match faucet, tailpiece. 3 - Chrome drain cover.												
Other	1 - Provide trap and supply guard if exposed. 2 - Hose and bracket, mop hanger and hose rack. 3 - Open front seat in public restrooms 4 - Provide Watts Tempering valve, max 110 Deg. F.												

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Autodesk Docs (Blackwell) (Griffin Riley)(Blackwell MEP R22.rvt

HVAC SYSTEM SCHEDULE																							
MARK APARTMENTS	MFGR	NOM TON	MODEL	CFM	AHU									ELEC	FLA	OCP	MFGR	OUTDOOR UNIT					NOTES
					OA CFM	E.S.P.	HP	SMBH	TMBH	HEAT CAP	MODEL	ELEC	FLA					OCP	SEER				
GS, S UNITS	GOODMAN	1 1/2	AWST1905	550		0.5	0.2	12.4	17.4	3.7 KW	208/1	20	30	GOODMAN	GSX14018	208/1	14	20	14.0				
A UNITS	GOODMAN	2	AWST2408	750		0.5	0.2	17.2	22.8	5.6 KW	208/1	31	40	GOODMAN	GSX14024	208/1	14	25	14.0				
B AND C UNITS	GOODMAN	2 1/2	AWST3010	950		0.5	0.33	21	28.8	7.5 KW	208/1	39	50	GOODMAN	GSX14030	208/1	15	30	14.0				
COMMON AREAS																							
AHU - H1 THRU H6	GOODMAN	1 1/2	ARUF-24C14	600	80	0.5	0.2	12.4	17.4	5.6 KW	208/1	31	40	GOODMAN	GSX14018	208/1	15	30.0	14.0				
AHU - CL3	GOODMAN	2.5	ARUF31B14	1000-1100	130	0.4	0.33	21.0	28.2	7.2 KW	208/1	37	50	GOODMAN	GSX14030		13.8	25	14.0	14.0			
AHU - CL1, CL2, CL5	GOODMAN	4	ARUF47D14	1400-1600	250	0.4	0.5	32	45	10.8 KW	208/1	55	70	GOODMAN	GSX14048		21.2	45	14.0	14.0			
AHU - CL4	GOODMAN	5	ARUF61D14	1750-1980	250	0.4	0.75	40	57	14.4 KW	208/1	73	90	GOODMAN	GSX14-060		26.3	50	14.0				
DSS STAIR	FUJITSU	2	ASU24RLF	700	0	0			22	25 MBH	208/1	W/HP		FUJITSU	AOU24RXLFW1	208-240/1	15.5	25	19	WALL STAT, LOW AMB			

COOLING EAT = 80/67/95
PROVIDE EACH UNIT WITH FILTER AND RACK, SINGLE POINT BREAKER, T'STAT. SEE SPECS.
UNLESS OTHERWISE SHOWN, TSTAT IS INSTALLED BEHIND RETURN AIR GRILL.

DRAIN SCHEDULE								
MARK	APPLICATION	MFGR	MODEL	BODY MAT'L	DEPTH	GRATE MAT'L	GRATE SHAPE	ACCESSORIES
APT FD	FLOOR	SIOUX CHIEF	842	ABS/PVC	3"	PVC	6" SQUARE	
APT FD	FLOOR - WOOD	SIOUX CHIEF	822	ABS/PVC	3"	PVC	6" SQUARE	2
FD-1	FLOOR	ZURN	ZN-415S	COATED CAST IRON	3"	NICKEL BRONZE	6" SQUARE	1, 2
FD-2	FLOOR	ZURN	Z-611-S	COATED CAST IRON	6"	COATED CAST IRON	9" SQUARE	1, 2, 3, 4

NOTES:
1 - DEEP TRAP, ADJUSTABLE GRATE
2 - USE WIDE FLANGE MODEL WHERE IN WOOD DECK FLOOR
3 - INTERNAL STRAINER
4 - WITH TRAP GUARD

EXHAUST FAN SCHEDULE									
MARK	MFGR	MODEL	CFM	ESP	FAN HP	ELECTRICAL			CONFIGURATION - NOTES
						VOLTS/ PH	FLA	OCP	
APT EF	BROAN	LP50100DC	80	0.1	Fr.	120/1	1	15	(3) #12 WALL 1, 2
CL2, CL3, CL4, CL7, CL8	GREENHECK	SP-A110	75	0.25	Fr.	120/1	1	15	(3) #12 ceiling, 1, 2
CL5, CL9	GREENHECK	SP-A190	150	0.25	Fr.	120/1	1	15	(3) #12 ceiling, 1, 2
CL6	GREENHECK	SP-A200	210	0.25	Fr.	120/1	1	15	(3) #12 ceiling, 1, 2
CL1	GREENHECK	SP-A390	300	0.25	Fr.	120/1	3	15	(3) #12 ceiling 1, 2

NOTES:
1-CEILING GRILLE
2-BD DAMPER, DS, SPEED CONTROLLER, WALL/ROOF CAP

AIR TERMINAL DEVICE SCHEDULE						
MARK	MANUFACTURER	MODEL	FINISH	DAMPER	FRAME TYPE	NOTES
A	AIR MATE	A140, A190	WHITE	YES	GYP BD	WITH CRD
B	AIR MATE	170	WHITE	NO	GYP BD	
C	AIR MATE	240 VO	WHITE	YES	GYP BD	
D	PRICE	620DAL/N/L/A/B12	WHITE	YES	GYP BD	WITH CRD
E	PRICE	635DAL/N/L/A/B12	WHITE	YES	GYP BD	
E1	PRICE	635/L/A/B12	WHITE	YES	GYP BD	WITH CRD

WATER HEATER SCHEDULE										
MARK	MFGR	MODEL	FUEL	VOLTAGE/PH/ AMPS	INPUT	EFFICIENCY/ PF	GALLONS STORAGE	GPH RECOVERY @ 80° RISE	FLUE TYPE	NOTES
CL1, CL2	A.O. SMITH	ENL-40	ELEC	208/1/22	4.5 KW	0.95	38	23	N/A	1, 2, 3
1/1	A.O. SMITH	EJC-10	ELEC	120/1/13	1.6 KW	N/A	9	8	N/A	1
TYP APT	A.O. SMITH	ENL-40	ELEC	208/1/22	4.5 KW	0.95	38	23	N/A	1, 2

NOTES
1- PROVIDE ASME P&T VALVE
2- PROVIDE EXPANSION TANK
3- PROVIDE ANODE RODS, DRAIN VALVE

ELECTRIC UNIT HEATER SCHEDULE										
MARK	MFGR	MODEL	KW	MBH	CFM	ELECTRICAL				CONFIGURATION - NOTES
						VOLTS/ PH	FLA	OCP	WIRING	
EUH - A	BERKO	FRC-4024F	3.0	10.2	100	240-1	14.4	20	(3) #12	WALL, 2, 4, 5
EUH-B	BERKO	HUHAA-320	3.0	10.2	100	240-1	14.4	20	(3) #12	WALL, 2, 4, 5
NOTES:	1-SURFACE MOUNTING SLEEVE/BOX 2-SEMI-RECESSED 3-FULLY RECESSED 4-DISCONNECT 5-INTEGRAL T'STAT									

NOTES:
1-SURFACE MOUNTING SLEEVE/BOX
2-SEMI-RECESSED
3-FULLY RECESSED
4-DISCONNECT
5-INTEGRAL T'STAT

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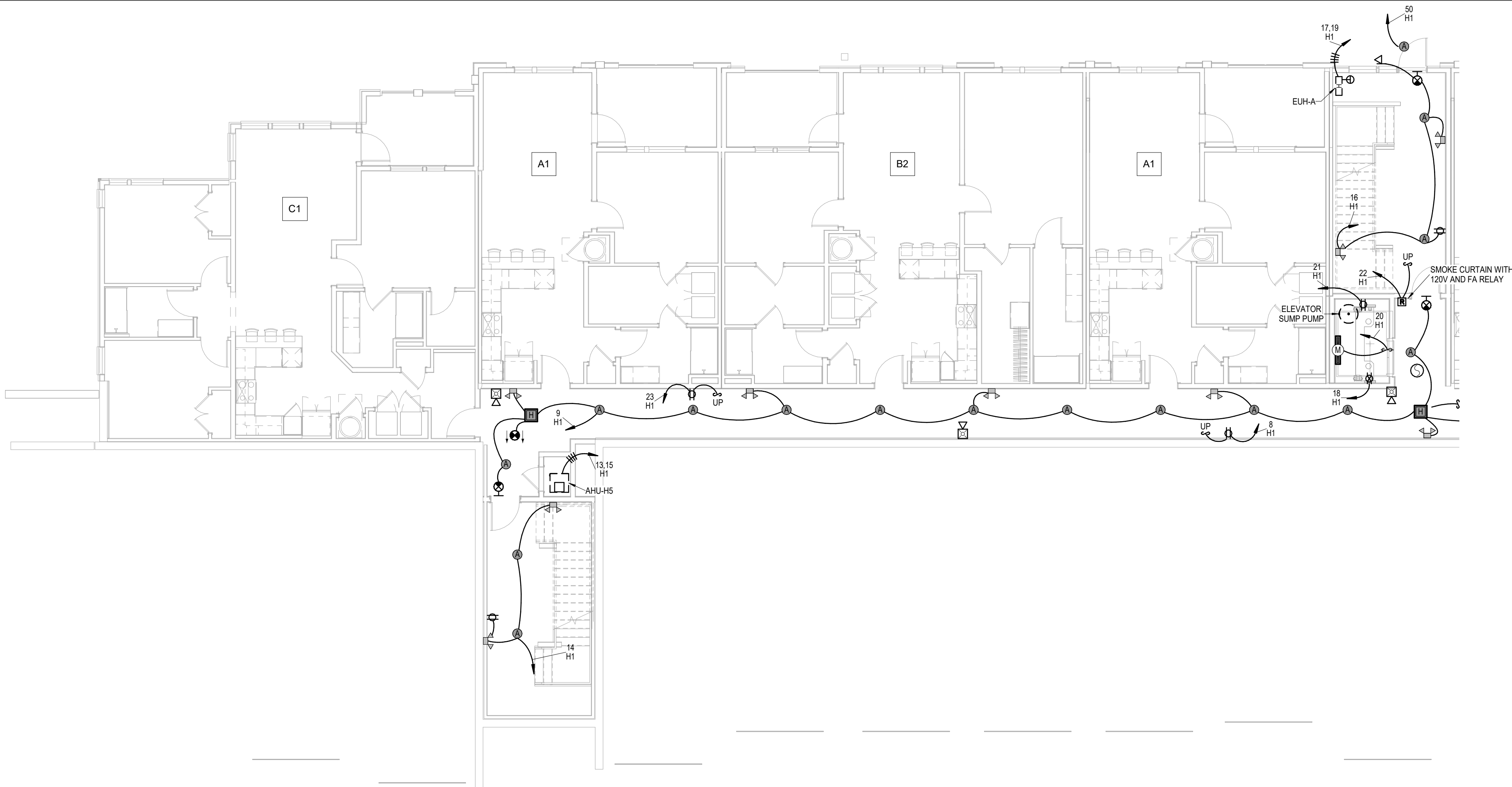
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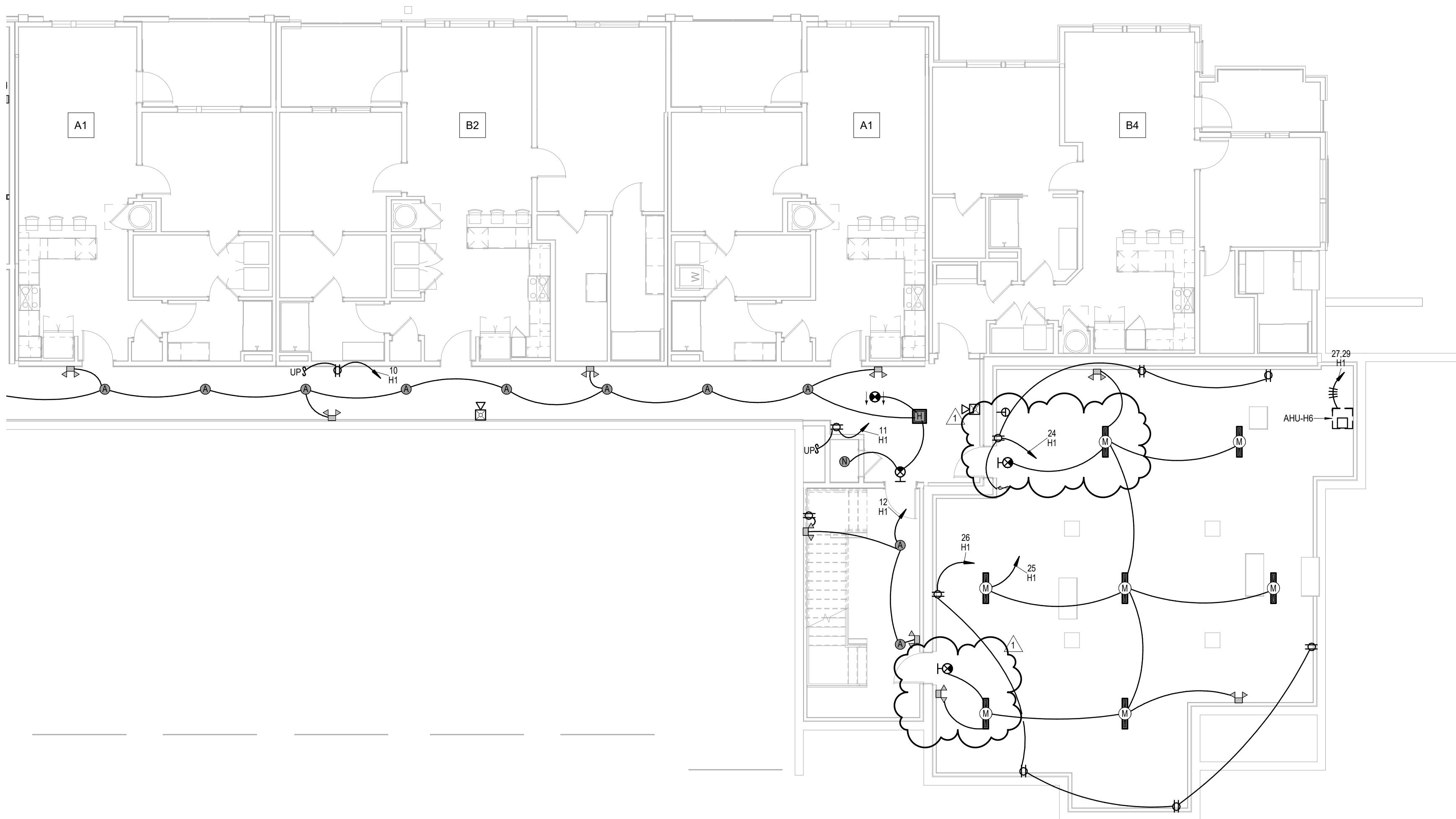
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1 LOWER LEVEL BUILDING PLAN - A
ELECTRICAL
1/8" = 1'-0"



2 LOWER LEVEL BUILDING PLAN - B
ELECTRICAL
1/8" = 1'-0"

- NOTES:
- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
 - SEE FIRE SUPPRESSION SUBMITTALS AND INCORPORATE ALL DEVICES INTO FIRE ALARM.
 - REVIEW HVAC PLANS FOR FIRE/SMOKE DAMPERS, SMOKE DETECTORS AND OTHER ITEMS NEEDING FIRE ALARM CONNECTION.
 - EXIT LIGHTS SHALL BE VISIBLE TO OCCUPANTS.
 - PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
 - FOLLOW THE DRAWINGS FOR HOME RUNS AND CIRCUIT NUMBERS. DO NOT COMBINE CIRCUITS IN LARGER CONDUITS UNLESS PRE-APPROVED BY THE ENGINEER.
 - LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
 - PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
 - SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY.

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STATE OF MISSOURI
RICHARD P. BEARDMORE
Professional Engineer
4-28-2023

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

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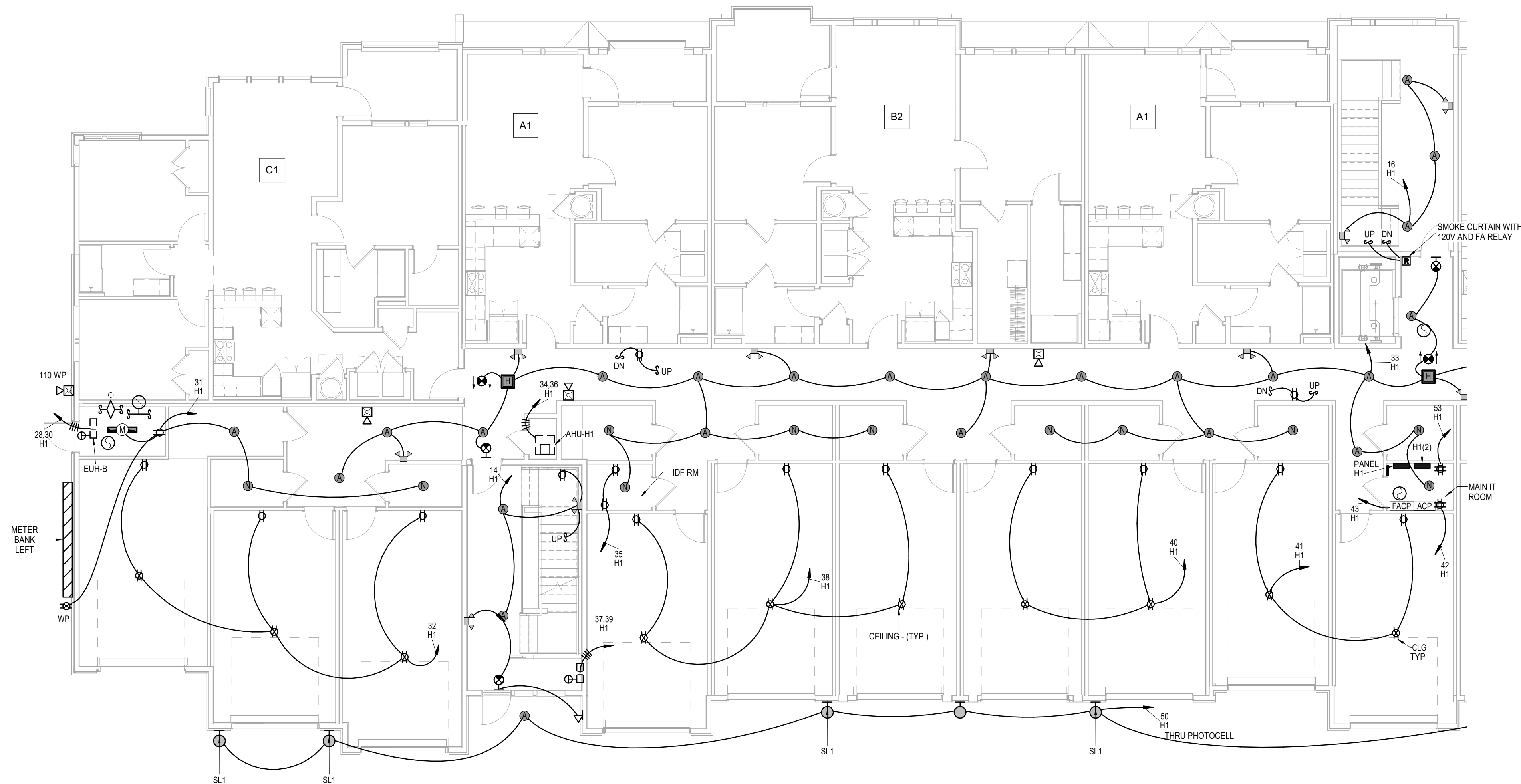
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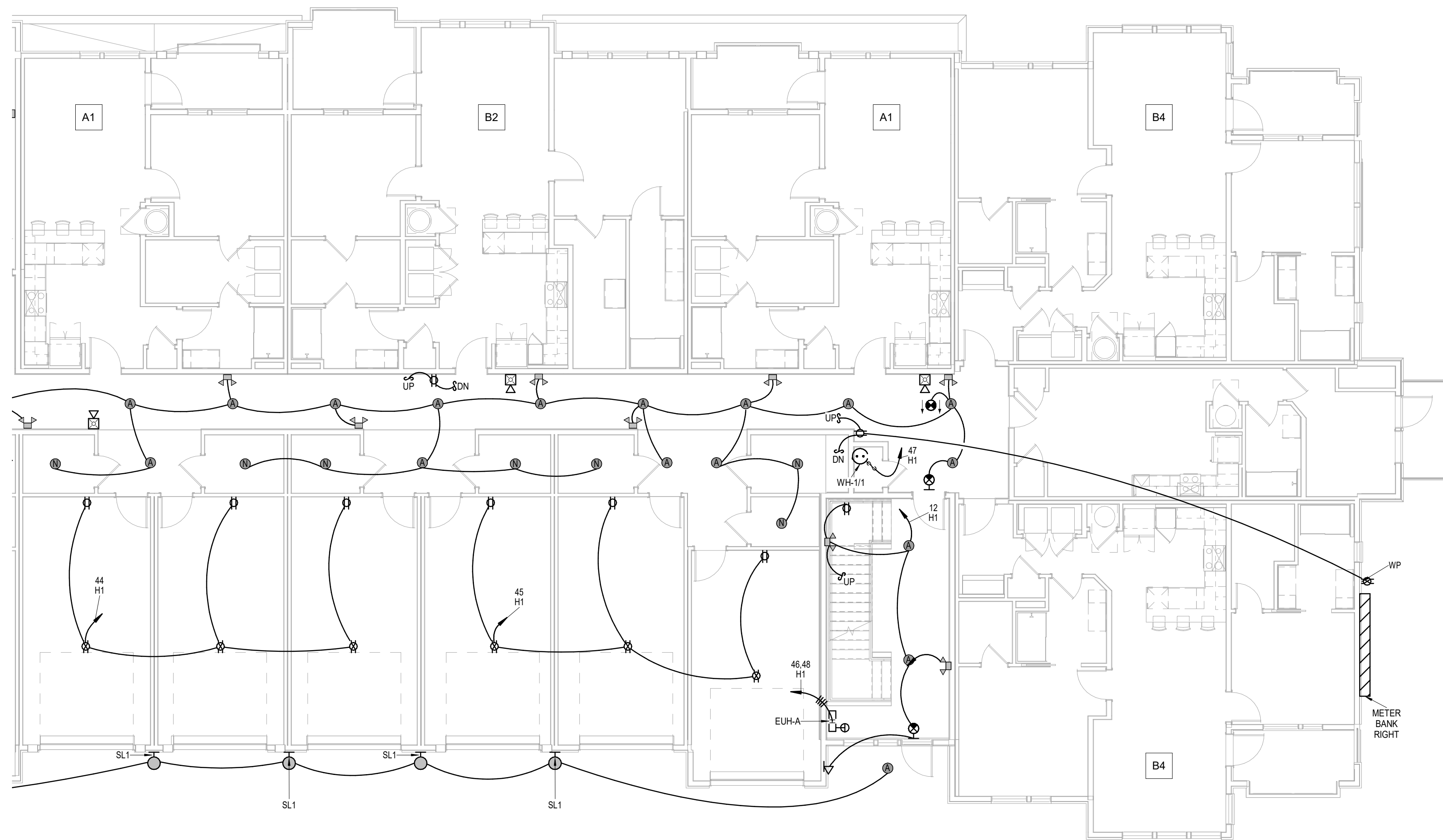
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SHEET NO.

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1 1ST FLOOR BUILDING PLAN - A
ELECTRICAL
1/8" = 1'-0"



2 1ST FLOOR BUILDING PLAN - B
ELECTRICAL
1/8" = 1'-0"

- | NOTES: | |
|--------|--|
| 1. | COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING. |
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| 7. | LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED. |
| 8. | PANEL DIRECTORYS SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED. |
| 9. | SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS. ALIGN FIRE ALARM AND SIMILAR DEVICES OVER SWITCHES VERTICALLY. |

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50 Highway & Blackwell, Lee's Summit, MO**

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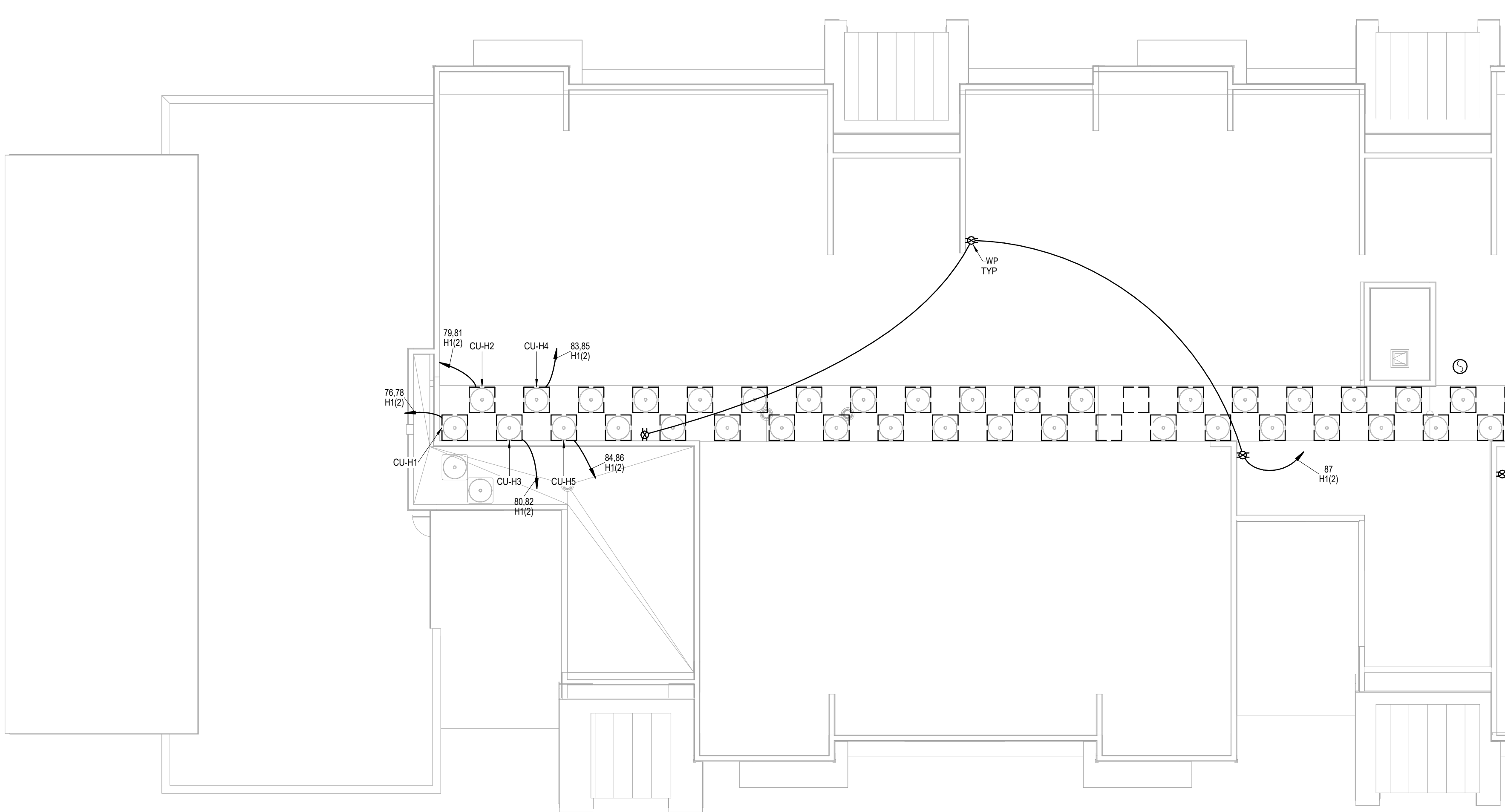
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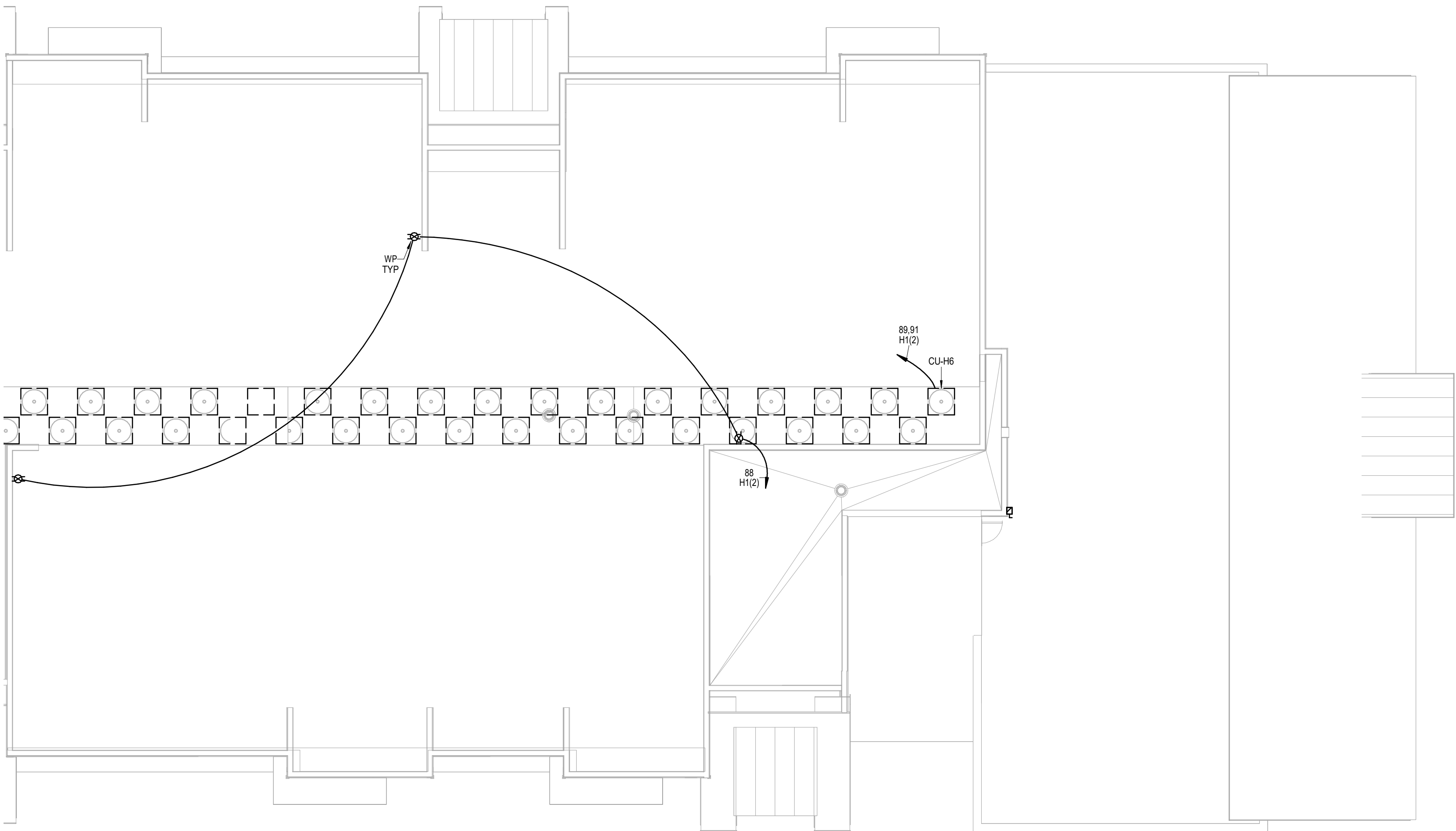
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1 ROOF PLAN - A
ELECTRICAL
1/8" = 1'-0"



2 ROOF PLAN - B
ELECTRICAL
1/8" = 1'-0"

- NOTES:
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STATE OF MISSOURI

BEAUMORE

Professional Engineer

3-24-23

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DATE: 3/24/2023

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SHEET NO. E2.10

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NOTES:

1. HALLWAY ENTRY SCONCES ARE UNSWITCHED. MOUNT AT 84" AFF. VERIFY WITH ARCHITECT.

2. CEILING FAN SWITCHES PROVIDED WITH FAN. CONTROL LIGHT AND FAN SEPARATELY. INTENDED FOR SINGLE GANG BOX.

3. GENERALLY CENTER LIGHT ON WINDOWS, DOOR, HALLWAYS, SINKS, OVER TUBS, ETC. VERIFY ALL LOCATIONS IN EACH UNIT DIMENSIONALLY WITH ARCHITECT, INTERIOR DESIGNER AND OWNER. MOUNT SWITCHES CLOSE TO DOORS OR WALL CORNERS.

4. THERMOSTATS HAVE LOW VOLTAGE WIRE BACK TO AHU. CONDENSING UNITS HAVE LOW VOLTAGE WIRE BACK TO AHU.

6. ② = 120V. SMOKE ALARM WITH BATTERY BACK - UP AND AUXILIARY CONTACT SO ALL SOUND TOGETHER.

7. ALL ARC - FAULT CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH CEILING FANS, LED FIXTURES AND OTHER ELECTRONIC DEVICES.

8. PROVIDE PROTECTION AT ELECTRICAL BOXES AT RATED CEILING MEMBRANES PER IBC 712.4.1.2(2). BOXES TO BE LISTED FOR RATED MEMBRANES. NOT EXCEED 16 SQUARE INCHES. NOT COMBINE FOR MORE THAN 100 SQUARE INCHES IN 100 SQUARE FEET AND ANNULAR SPACE NOT EXCEED 1/8". PROVIDE 24" SEPARATION IN RATED WALLS BETWEEN BOXES UNLESS UL LISTED AS LESS.

9. FIRE ALARM HORN/STROBE CIRCUITS SHALL BE SIZED TO ACCEPT BEDROOM HORN/STROBES IN FUTURE INCLUDING WIRING AND PANEL CAPACITY.

10. ALL RANGES SERVED BY (3)#8 and (1)#10 AND 50A. RECEPTACLE.

11. ALL WATER HEATERS SERVED BY (3)#10. ALL DRYERS SERVED BY (4)#10 AND 30A. RECEPTACLE.

12. ALL WASHERS AND REFRIGERATORS HAVE RECEPTACLES AT 48". MW RECEPTACLES AT 66" (VERIFY).

13. SEE HVAC SCHEDULE AND SHOP DRAWINGS FOR AHU AND OUTDOOR UNIT CIRCUITS.

14. BELOW COUNTER RECEPTACLES AND PLATES SHALL MATCH THE BASE CABINETS WHERE THEY ARE MOUNTED (BROWN, WHITE, ETC.) VERIFY WITH ARCHITECT.

15. SEE ARCH PLANS FOR TYPE A UNIT LOCATIONS AND QUANTITY.

16. ALL UNIT CAN LIGHTS ARE TYPE R.1 UNLESS NOTED OTHERWISE.

17. SEE ARCH UNIT PLANS FOR DIMENSIONED REFLECTED CEILING PLANS.

LEGEND:

① SWITCHED RECEPTACLE FOR GARBAGE DISPOSER. CONTINUE CIRCUIT TO DISHWASHER.

② PROVIDE ARC-FAULT BREAKER IN PANEL.

③ TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.

④ SWITCHES FOR OVERHEAD MW FAN & LIGHT.

⑤ SMOKE ALARM TO HAVE STROBES.

1 UNIT STUDIO

ELECTRICAL

1/4" = 1'-0"

2 UNIT STUDIO ALT

ELECTRICAL

1/4" = 1'-0"

3 UNIT A1

ELECTRICAL

1/4" = 1'-0"

4 UNIT A1 - TYPE A

ELECTRICAL

1/4" = 1'-0"

5 UNIT A1 - ALT

ELECTRICAL

1/4" = 1'-0"

6 TYPICAL COND. UNIT DETAIL

NOT TO SCALE

TO AHU

COND. UNIT

60A., 2P., 240V., NEMA 3R.

NF DISCONNECT SWITCH (TYP.)

ARCH D 24" x 36"

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STATE OF MISSOURI
RICHARD R. BEARDMORE
Professional Engineer
No. 100000000000
3-24-23

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

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1

UNIT A2
ELECTRICAL
1/4" = 1'-0"

2

UNIT B2
ELECTRICAL
1/4" = 1'-0"

3

UNIT B2 - ALT 1&2
ELECTRICAL
1/4" = 1'-0"

4

UNIT B2 - TYPE A
ELECTRICAL
1/4" = 1'-0"

NOTES:

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LEGEND:

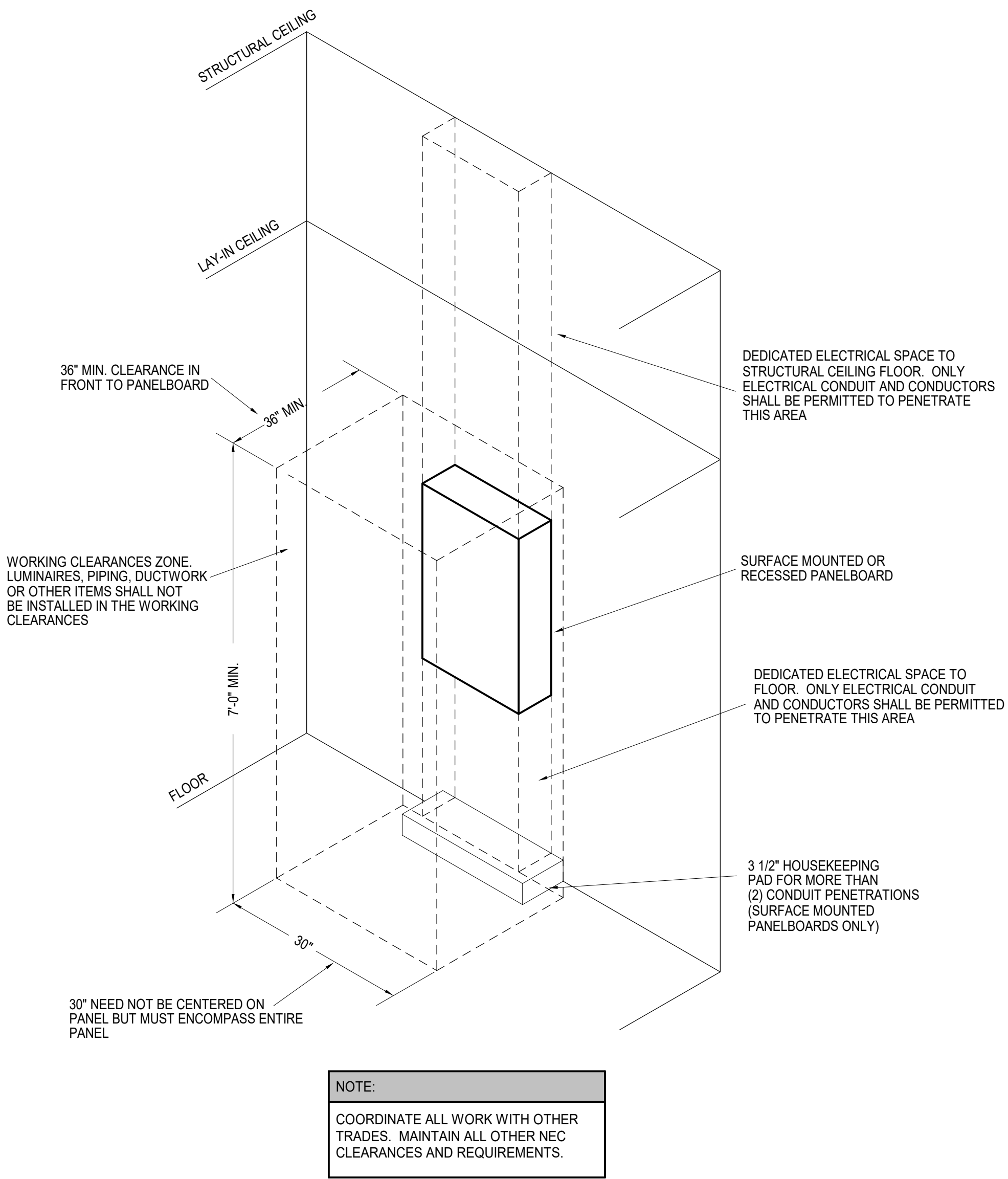
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② PROVIDE ARC-FAULT BREAKER IN PANEL.

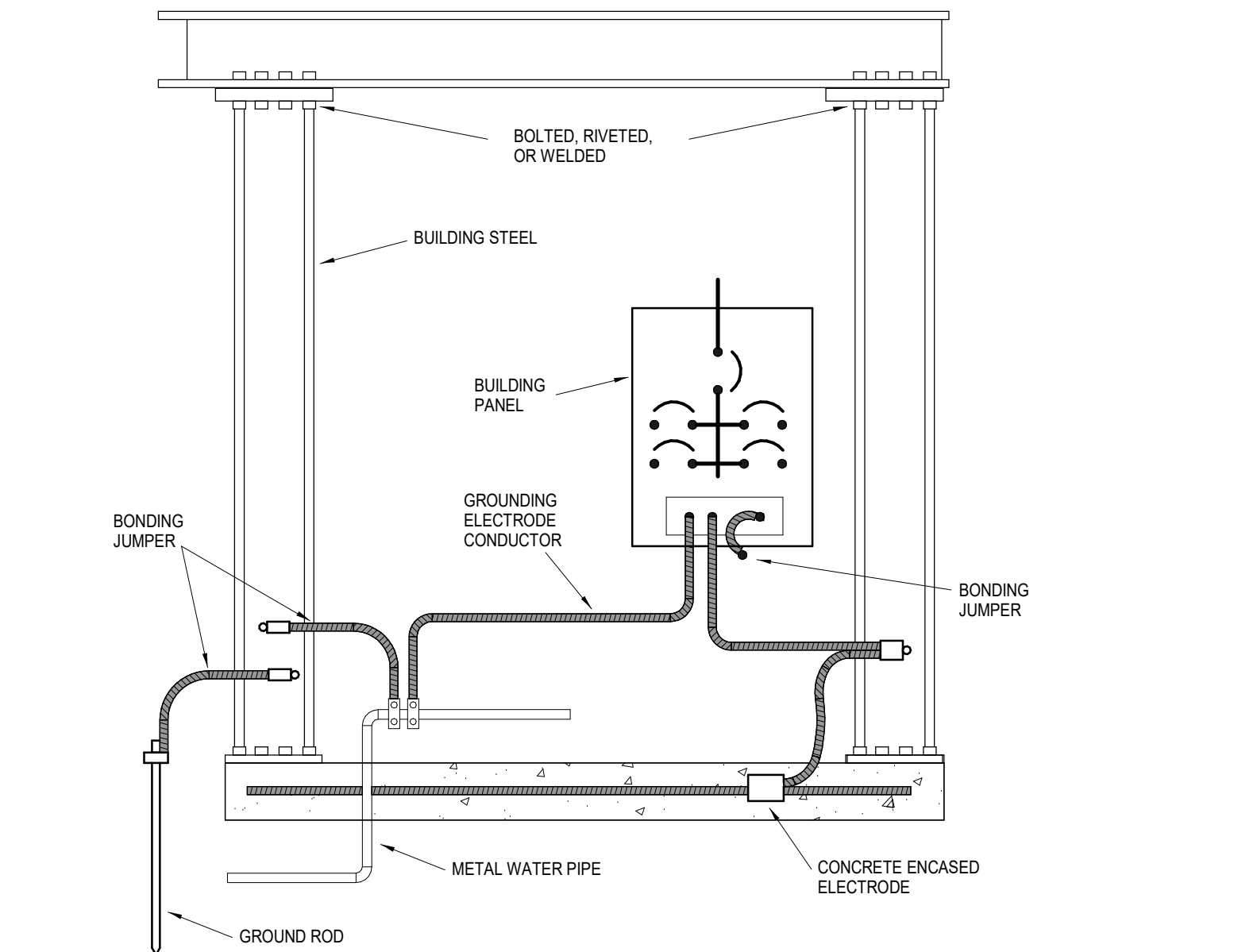
③ TELE/TV DEMARK FLUSH BOX WITH DUPLEX OUTLET. SEE DETAIL.

④ SWITCHES FOR OVERHEAD MW FAN & LIGHT.

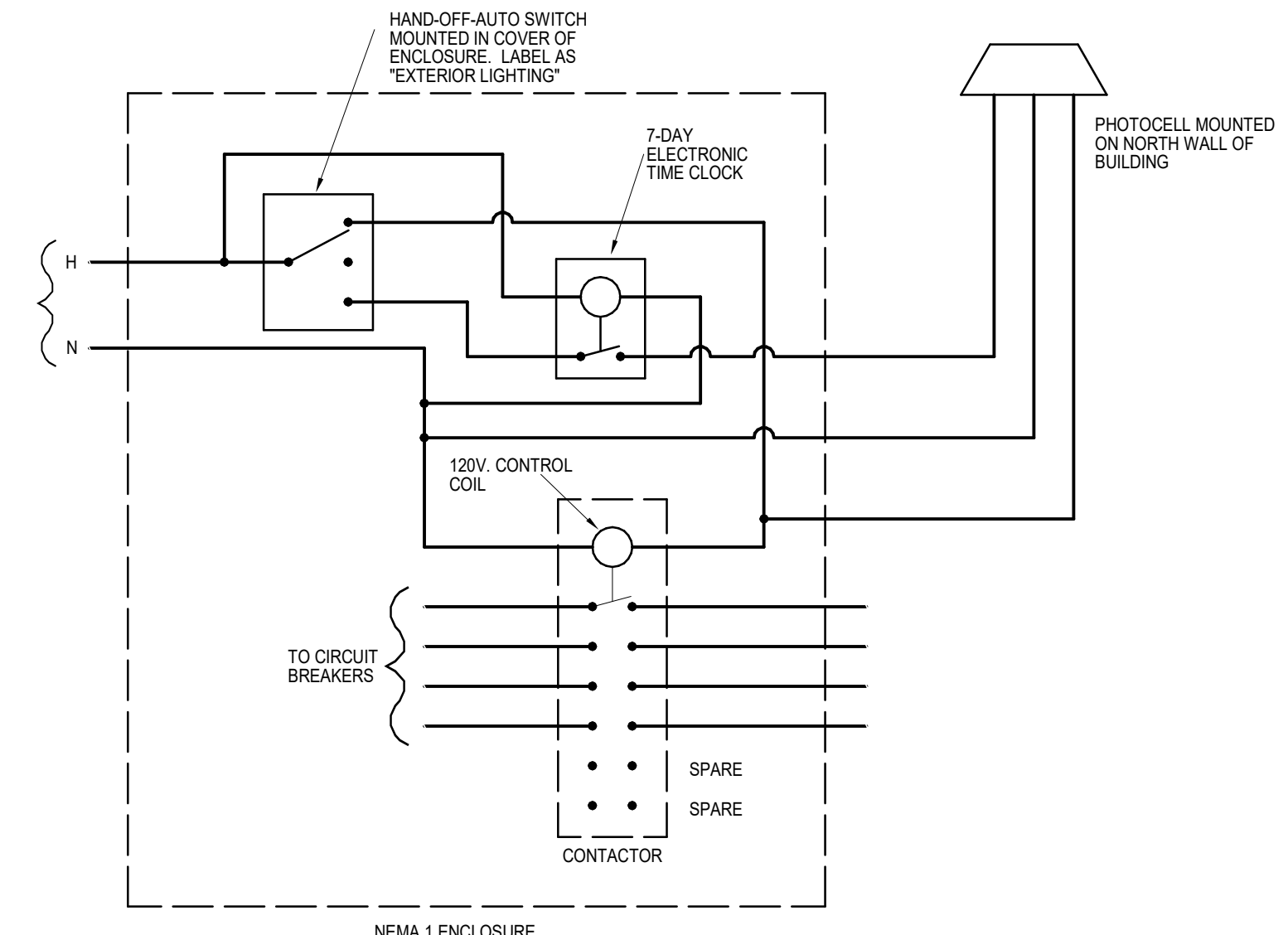
⑤ SMOKE ALARM TO HAVE STROBES.



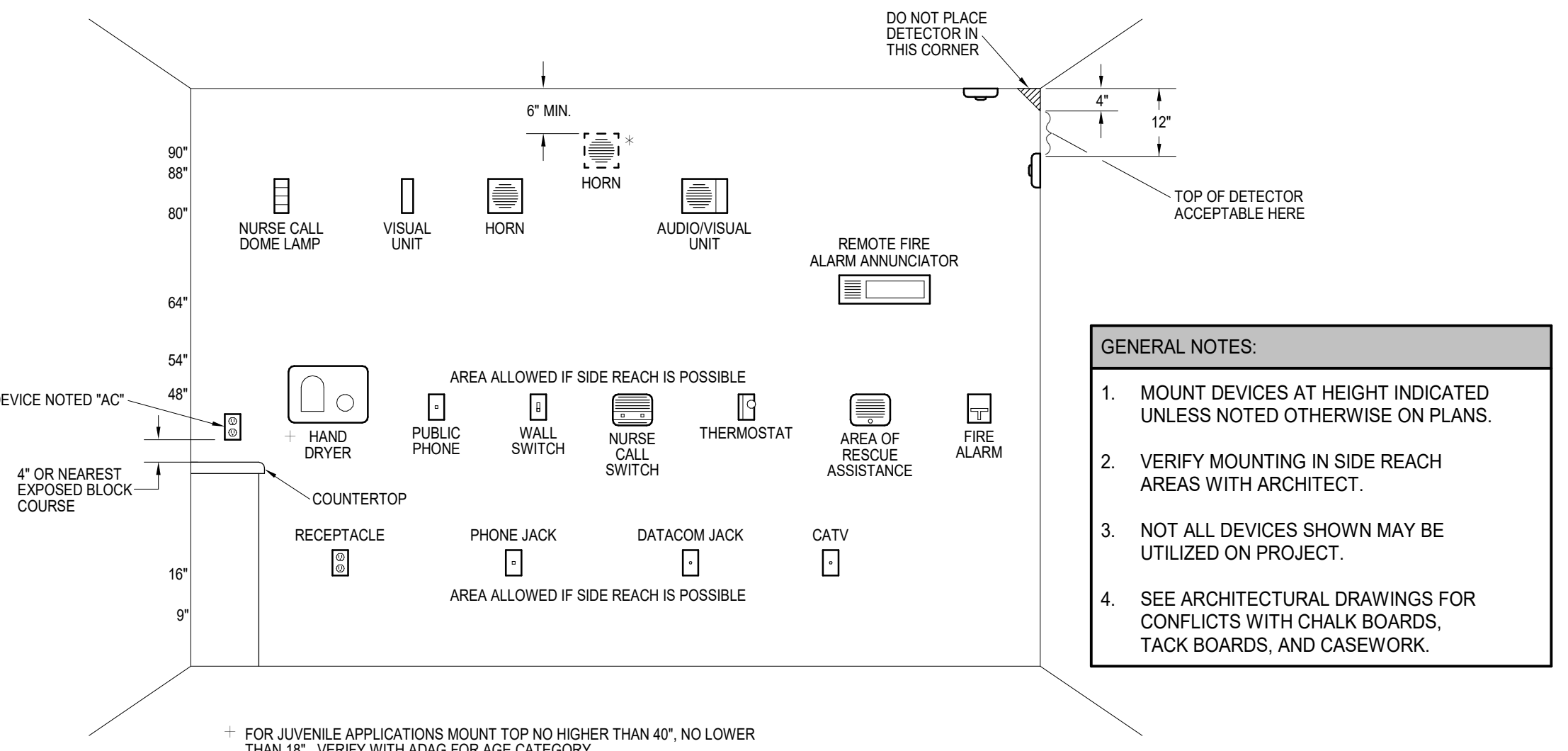
1 TYPICAL PANELBOARD INSTALLATION DETAIL
NOT TO SCALE



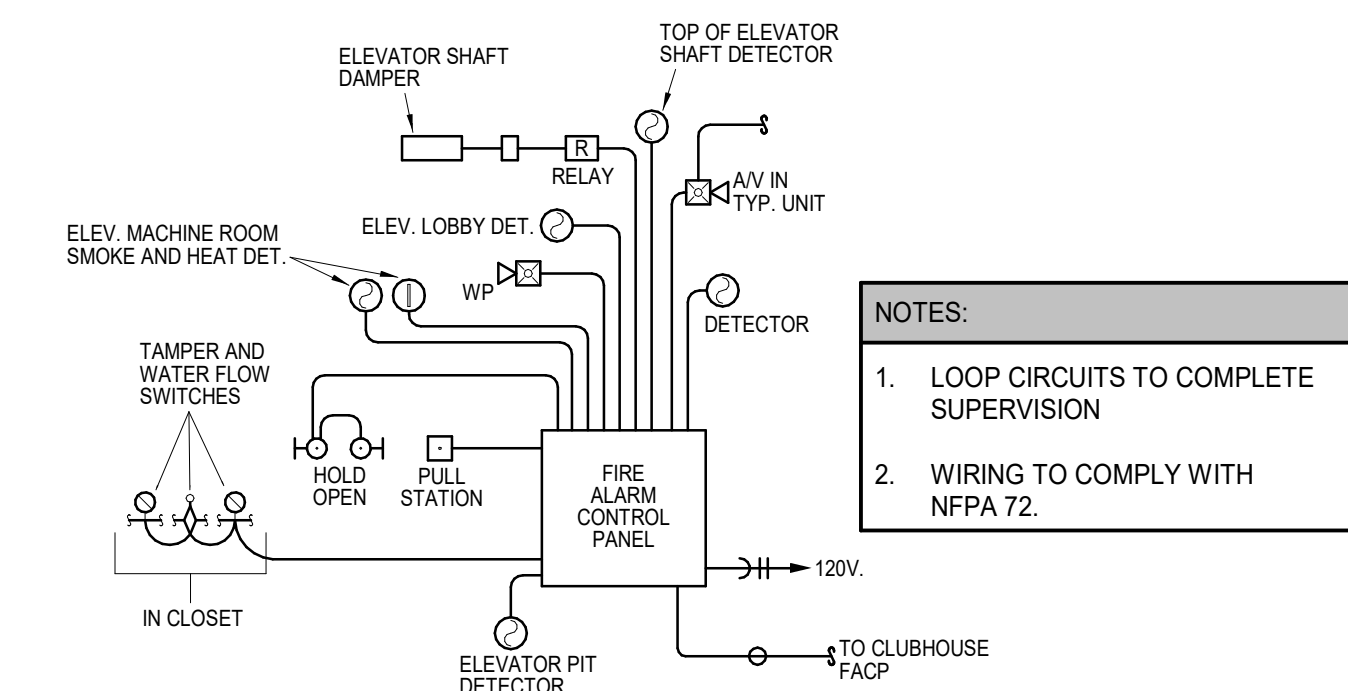
2 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE



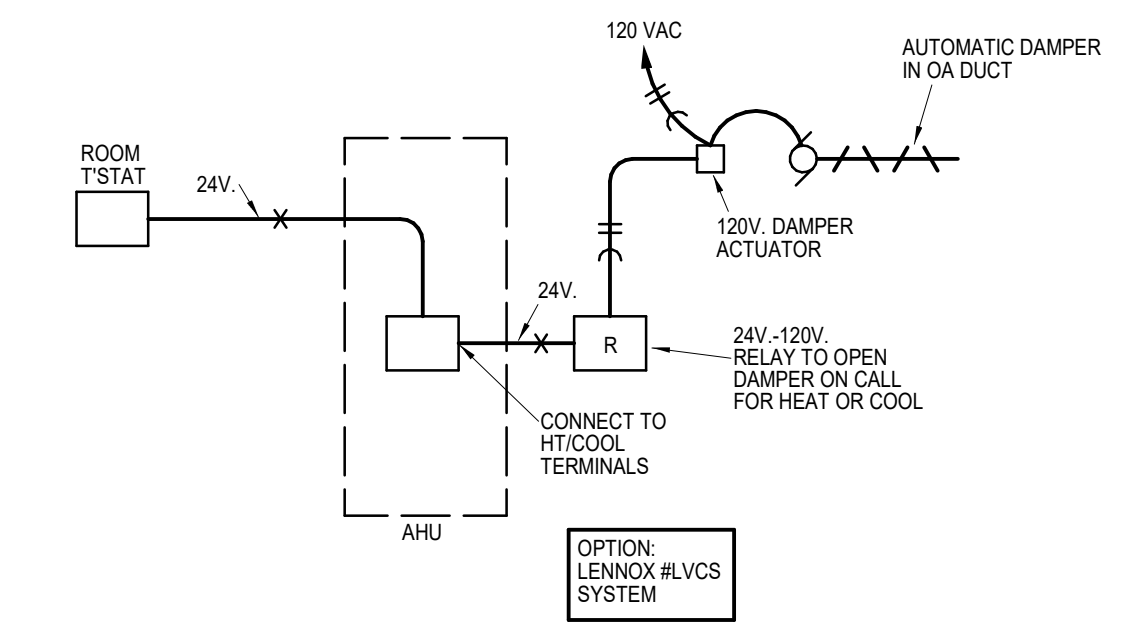
5 EXTERIOR LIGHTING CONTROL PANEL SCHEMATIC
NOT TO SCALE



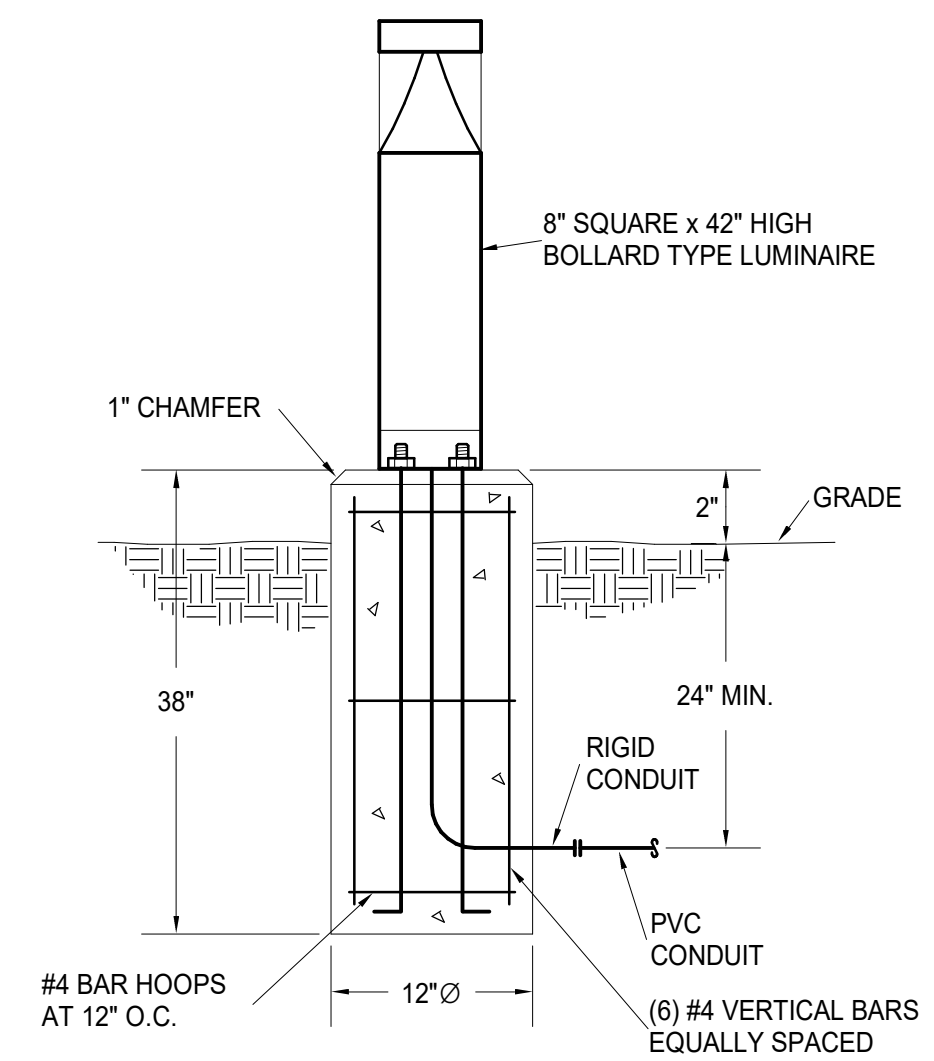
7 ELECTRICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE



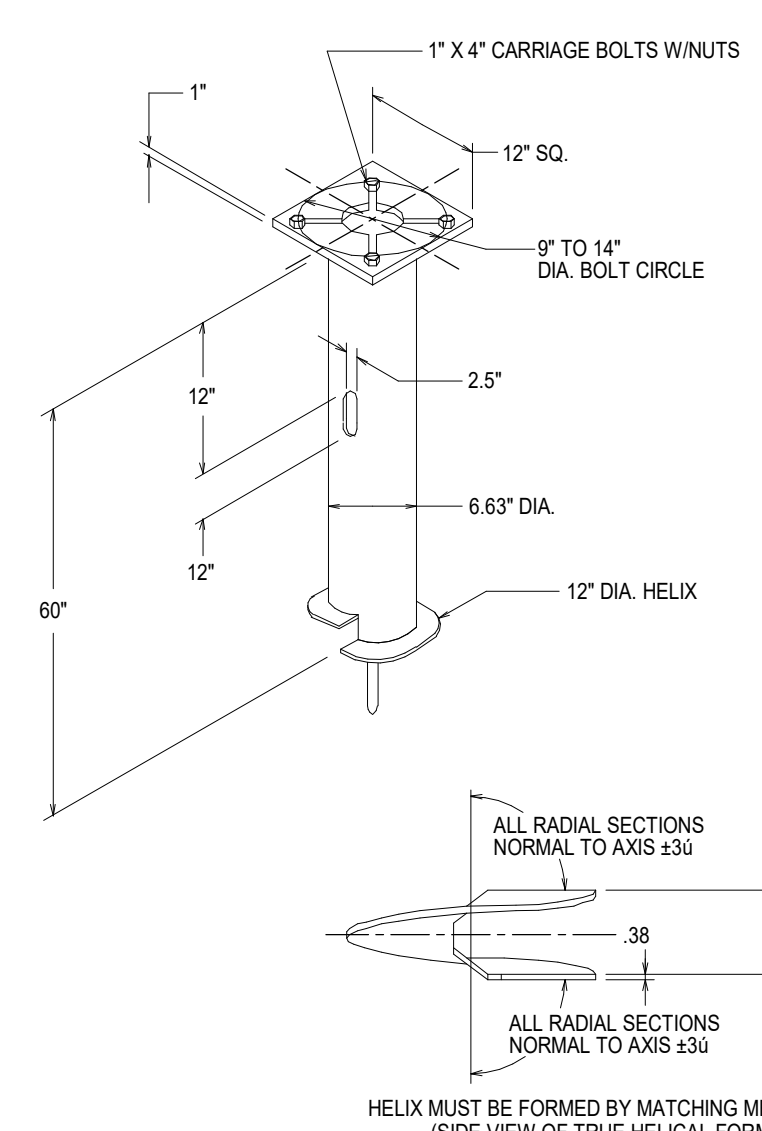
3 FIRE ALARM RISER DIAGRAM
NOT TO SCALE



4 OUTSIDE AIR DAMPER CONTROL SCHEMATIC
NOT TO SCALE



6 LIGHT BOLLARD
NOT TO SCALE



8 LIGHT POLE FOUNDATION DETAIL
NOT TO SCALE

DEVICE MOUNTING NOTES:

1. VISUAL UNIT
DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.

2. AUDIO UNIT
DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.

3. AUDIO/VISUAL UNIT
DEVICE BOTTOM 80" ABOVE HIGHEST FLOOR LEVEL OR TOP 6" BELOW CEILING; WHICHEVER IS LOWER.

4. PULL STATION
HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH).

* TOP OF UNIT NOT LESS THAN 90" ABOVE FLOOR AND NOT LESS THAN 8" BELOW CEILING (NFPA) (BOTTOM AT 88" WITH BLOCK COURSES). MOUNT AT NFPA HEIGHT ONLY IF REQUIRED BY LOCAL AHJ.

GENERAL NOTES:

1. MOUNT DEVICES AT HEIGHT INDICATED UNLESS NOTED OTHERWISE ON PLANS.

2. VERIFY MOUNTING IN SIDE REACH AREAS WITH ARCHITECT.

3. NOT ALL DEVICES SHOWN MAY BE UTILIZED ON PROJECT.

4. SEE ARCHITECTURAL DRAWINGS FOR CONFLICTS WITH CHALK BOARDS, TACK BOARDS, AND CASEWORK.

ELECTRICAL DEVICE MOUNTING HEIGHTS SHALL CONFORM TO THE LATEST EDITION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN.

NOTES:

- FINISH: HOT DIP GALVANIZE PER ASTM-A153 (LATEST REVISION).
- BASEPLATE TO BE PERPENDICULAR TO SHAFT AXIS (±1U) AND HOLE CENTERLINE CONCENTRIC (±18U) TO SHAFT AXIS.
- STENCIL MIN. 1/2 IN. LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING.
- PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (±125 FIM) AND IN LINE (±2U).
- FLAME CUT SLOT PERPENDICULAR TO THE BASEPLATE.
- PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
- FLAME CUT SLOT PERPENDICULAR TO THE BASEPLATE. GRADE-2 PER ASTM A232. ALT. MATERIAL: STEEL PIPE TYPE E OR S, GRADE-B PER ASTM A53.
- MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
- ALL MATERIAL IS TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:

BASEPLATE: ASTM A36 (LATEST REVISION) HOT ROLLED STEEL PLATE, (CONFORM TO AASHTO TECH. BUL. #270)

SHAFT: STEEL PIPE PILES, SEAMLESS OR STRAIGHT WELDED, GRADE-2 PER ASTM A232. ALT. MATERIAL: STEEL PIPE TYPE E OR S, GRADE-B PER ASTM A53.

HELIX: ASTM A36 (LATEST REVISION) HOT ROLLED STEEL.

PILOT POINT: ASTM A575 (LATEST REVISION) STEEL BAR.

BOLTS: CARR BOLT PER ANSI B-18.2.1, SAE J429 GRADE-5.

10. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN 12" LETTERS AND DATE CODE IN 14" LETTERS.

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LSA PROJECT NO. 2204073

DATE: 3/24/2023
JOB NO. 696521
DRAWN BY: Author
SHEET NO.

PERMIT

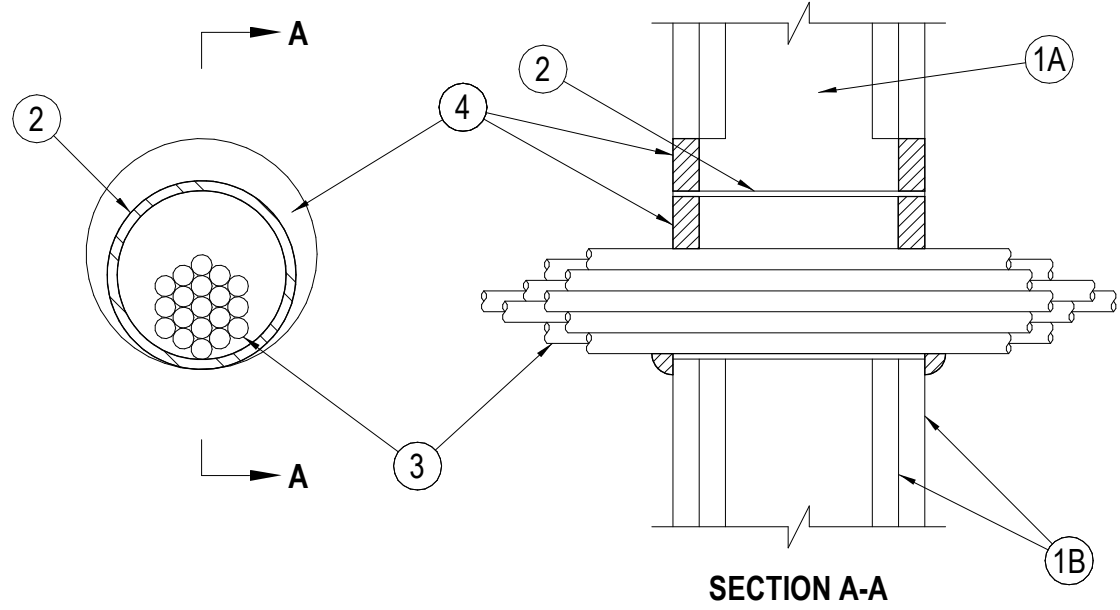
E3.01

A NEW DEVELOPMENT:

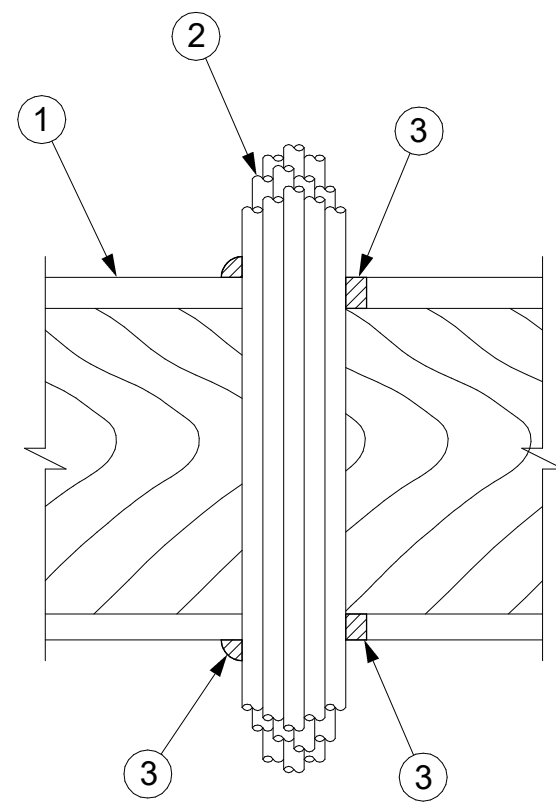
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

DRAWING RELEASE LOG

REVISIONS:



1 FIRE RATED PENETRATION DETAIL
NO SCALE SYSTEM WL-3065



2 FIRE RATED PENETRATION DETAIL
NO SCALE SYSTEM FC-3074

NOTES AND LEGENDS:

1.

1. Floor-Ceiling Assembly - The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:

A. Flooring System - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 3 in.

B. Wood Joists* - Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends freestopped.

C. Gypsum Board* - Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists or lurring channels as specified in the individual Floor-Ceiling Design.

Chase Wall - (Optional, Not Shown) - The through penetrants (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Nom 2 by 4 in., 2 by 6 in. or double nom 2 by 4 in. lumber studs.

B. Sole Plate - Nom 2 by 4 in., 2 by 6 in. or parallel 2 by 4 in. lumber plates, lightly butted. Max diam of opening is 3 in.

C. Top Plate - The double top plate shall consist of two nom 2 by 4 in., two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.

D. Gypsum Board* - Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

Cables - Aggregate cross-sectional area of cable in opening to be max 50 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1 in. Cables to be rigidly supported on both sides of the floor-ceiling assembly. Any combination of the following types and sizes of copper conductor cables may be used:

A. Max 150 pair No. 24 AWG telephone cable with PVC insulation and jacket.

B. Max 2/C No. 10 with ground Type NM nonmetallic sheathed (Romex) cable with PVC insulation and jacket.

C. Max 3/C with ground 2/0 AWG aluminum SER cable with PVC insulation and jacket.

D. Max 3/C No. 10 AWG copper conductor steel clad cable.

E. Max 24 fiber optic cable.

F. RG 59U coaxial cable.

G. CAT 5 data cable.

Fill, Void or Cavity Material* - Sealant - Min 3/4 in. thickness of sealant applied within the annulus flush with the top surface of the floor or sole plate and min 5/8 in. thickness of sealant applied within the annulus flush with the bottom surface of gypsum board or lower top plate. A min 1/2 in. diameter bead of sealant applied at the cable bundle/subflooring or sole plate interface and the cable bundle/gypsum board or top plate interface at point contact locations.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 606 Flexible Firestop Sealant

HILTI INC - CP 606 Flexible Firestop Sealant

1A.

Cables - Aggregate cross-sectional area of cable in opening to be max 50 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact) to max 1 in. Cables to be rigidly supported on both sides of the floor-ceiling assembly. Any combination of the following types and sizes of copper conductor cables may be used:

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E. Max 24 fiber optic cable.

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HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 606 Flexible Firestop Sealant

HILTI INC - CP 606 Flexible Firestop Sealant

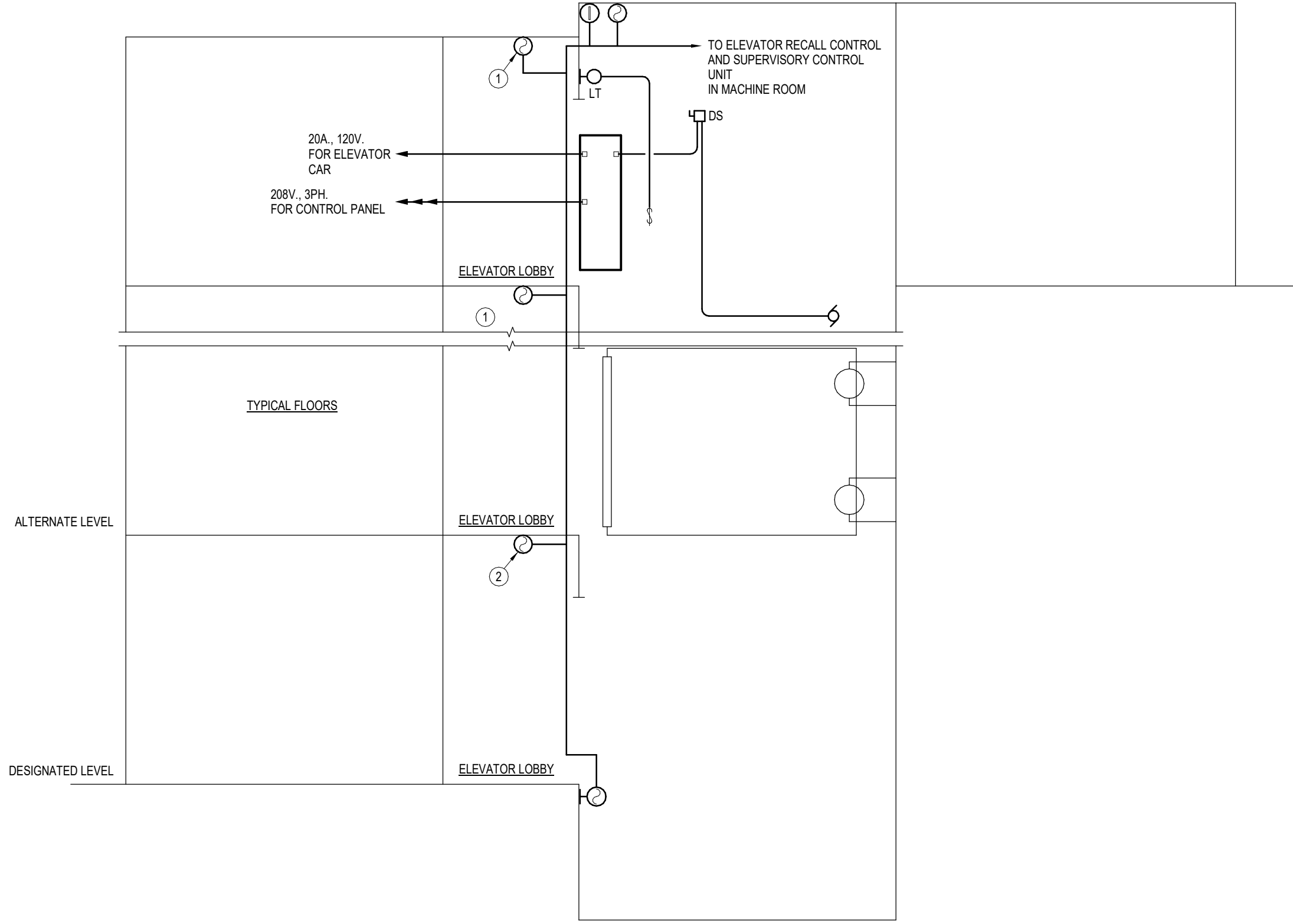
3.

*Bearing the UL Classification Mark

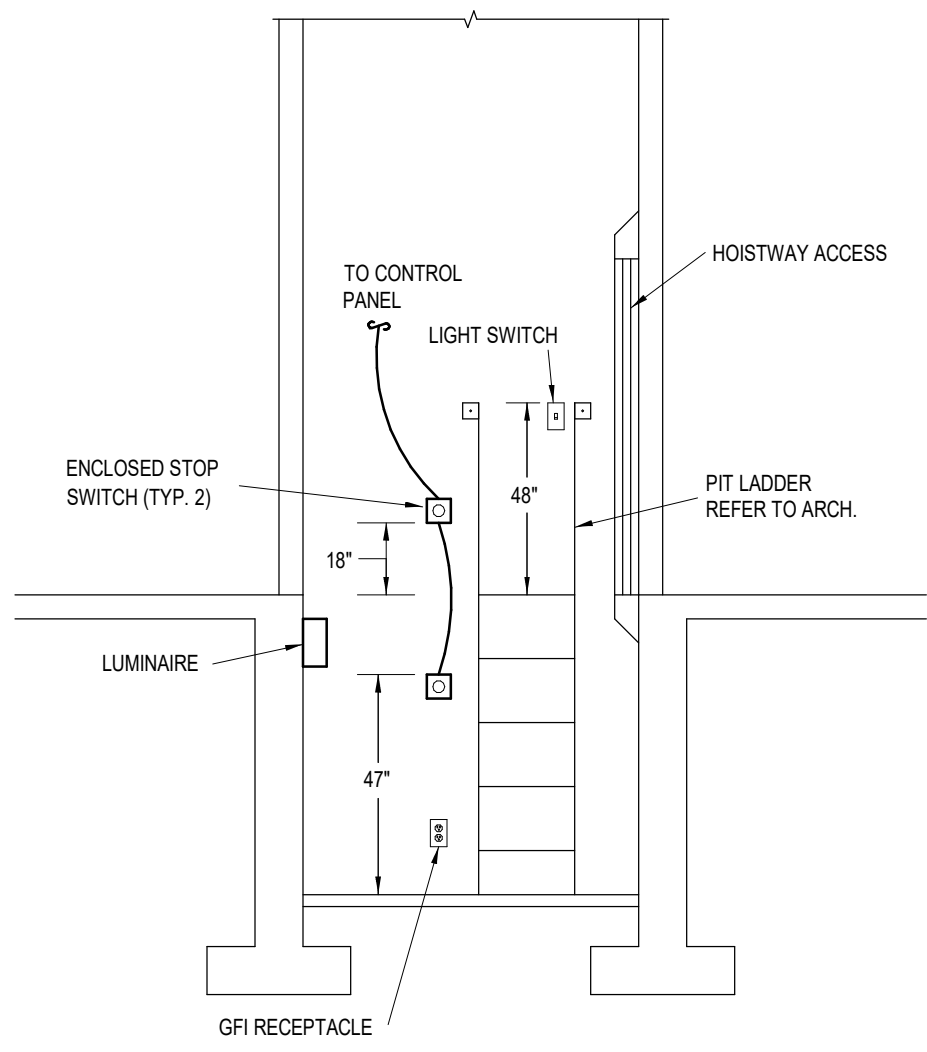
DETECTOR OPERATION:	
①	RECALL TO DESIGNATED LEVEL.
②	RECALL TO ALTERNATE LEVEL.

SYSTEM SEQUENCE:	
UPON DETECTION OF SMOKE IN ELEVATOR LOBBIES, MACHINE ROOM, TOP OF HOISTWAY OR BOTTOM OF HOISTWAY, ELEVATOR RECALL CONTROLS SHALL BE ACTIVATED.	

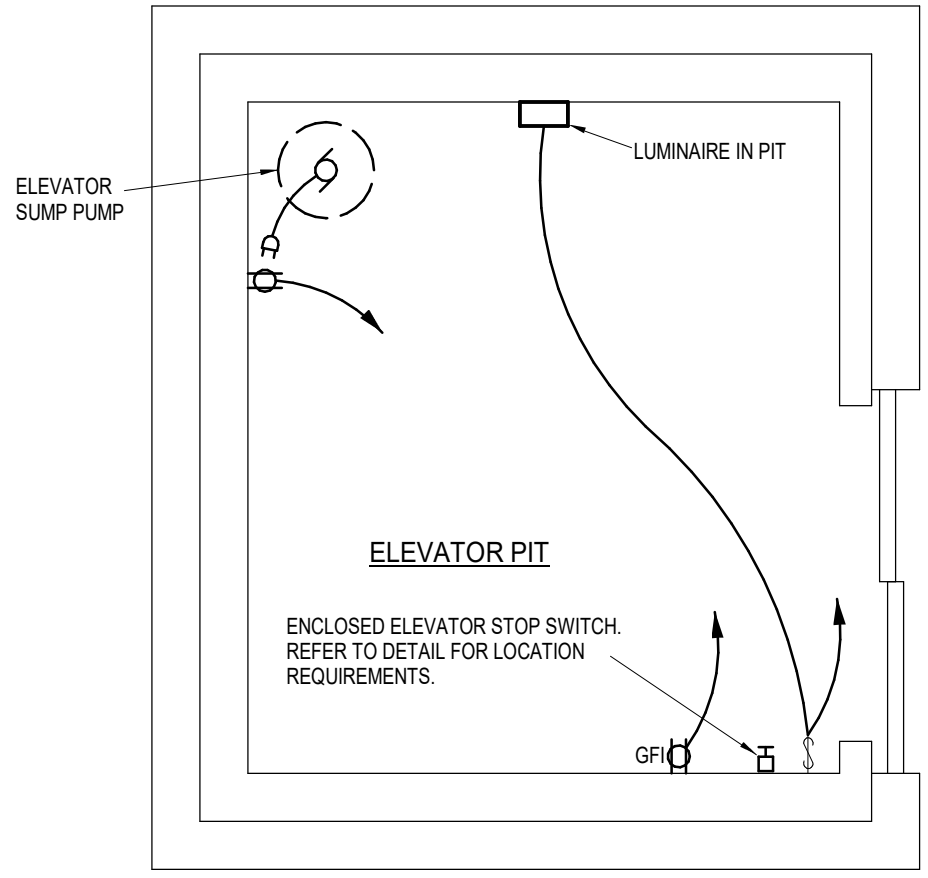
SYMBOLS LEGEND:	
①	HEAT DETECTOR
②	SMOKE DETECTOR
⚡	SPRINKLER



3 ELECTRICAL ELEVATOR FIRE PROTECTION SYSTEM OPERATION DETAIL
NOT TO SCALE



4 ELEVATOR PIT DETAIL
NOT TO SCALE



5 ELEVATOR PIT ELECTRICAL DETAIL
NOT TO SCALE

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PRAIRIE VILLAGE, KS 66208

STATE OF MISSOURI
RICHARD J. BEARDMORE
Professional Engineer
3-24-23

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

DRAWING RELEASE LOG

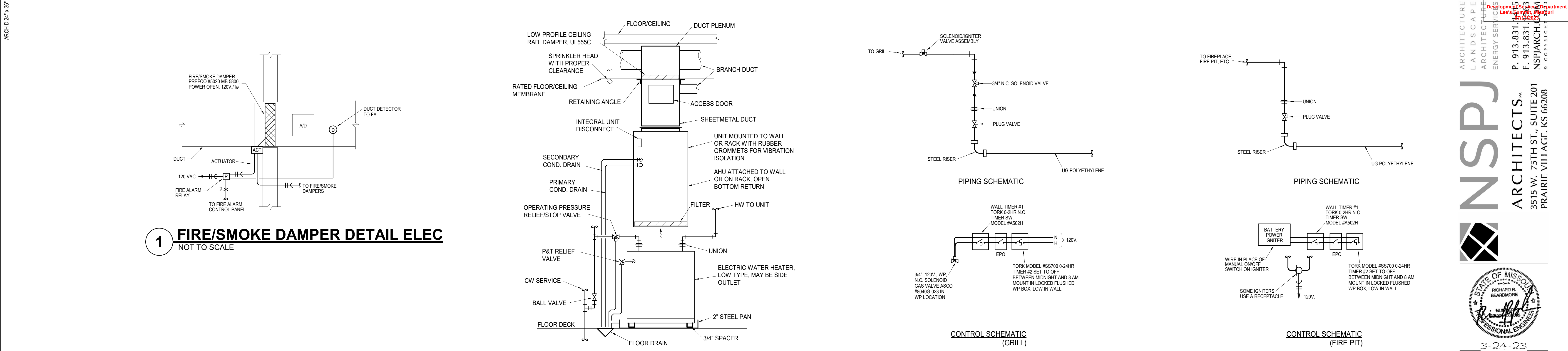
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LSA PROJECT NO. 2204073

DATE:
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JOB NO.
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SHEET NO.

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E3.02



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Development Services Department

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Unit Load Calculation

Unit: S1

420 square feet at 3 VA per sq. ft.

2 small appliance circuits

Range

Microwave

Washer

Dryer

Water Heater

Dishwasher

Disposer

Total general load

NEC 220-84 Calculation

First 10 KVA at 100%

Remainder at 40%

Heater Load

Total load

Load for unit service Amp @ 208 volt/1

Connected Load

VA

1260

3000

8000

1000

1500

4400

4500

740

850

25250

10000

6100

2405

18505

89

28950

Unit Load Calculation

Unit: A1-A2

700 square feet at 3 VA per sq. ft.

2 small appliance circuits

Range

Microwave

Washer

Dryer

Water Heater

Dishwasher

Disposer

Total general load

NEC 220-84 Calculation

First 10 KVA at 100%

Remainder at 40%

Heater Load

Total load

Load for unit service Amp @ 208 volt/1

Connected Load

VA

2100

3000

8000

1000

1500

4400

4500

740

850

26090

10000

6436

3640

20076

97

31690

Unit Load Calculation

Unit: B2/B4

1050 square feet at 3 VA per sq. ft.

2 small appliance circuits

Range

Microwave

Washer

Dryer

Water Heater

Dishwasher

Disposer

Total general load

NEC 220-84 Calculation

First 10 KVA at 100%

Remainder at 40%

Heater Load

Total load

Load for unit service Amp @ 208 volt/1

Connected Load

VA

3150

3000

8000

1000

1500

4400

4500

740

850

27140

10000

6856

3640

20496

99

32740

Multi-Family Building Load Analysis

Building: RIGHT

Unit Quantity

Unit Type

Connected Load - VA

Total KVA

3 S

28950

86.9

13 A1/A2

31690

412.0

4 B2

32740

131.0

1 B2-ALT

33070

33.1

3 B3

32575

97.7

7 B4

32740

229.2

C1

34715

0.0

Total Building KVA

989.8

Total Units

31

Diversity per NEC Table 230.84

0.32

Diversified KVA

316.7

Amps @ 208 V Three Phase

880

House Load - Amps

Total Demand - Amps

880

Multi-Family Building Load Analysis

Building: LEFT

Unit Quantity

Unit Type

Connected Load - VA

Total KVA

3 S

28950

86.9

17 A1/A2

31690

538.7

5 B2

32740

163.7

1 B2-ALT

33070

33.1

B3

32575

0.0

B4

32740

0.0

6 C1

34715

208.3

Total Building KVA

1030.6

Total Units

32

Diversity per NEC Table 230.84

0.31

Diversified KVA

319.5

Amps @ 208 V Three Phase

887

House Load - Amps

300

Total Demand - Amps

1187

ELECTRICAL PANEL SCHEDULE

PANEL: S UNITS

BUS: 125A

POLES: 18

VOLTAGE: 120/240

PHASE/WIRE

MOUNTING: FLUSH

1 Ph 3 Wire

KAIC:10K

CIRCUIT NUMBERS

DESCRIPTION

AMPS

POLES

QUANTITY

1, 3

RANGE

40

2

1

5, 7, 13, 15

WATER HEATER, DRYER

30

2

2

9, 11

AHU

30

2

1

17, 19

CONDENSING UNIT

20

2

1

2

LIGHTS AND RECEPTACLES

20

1

1

4 THRU 18 EVEN

ARC-FAULT LIGHTS AND RECEPTACLES

20

1

8

20

SPARE

20

1

1

ELECTRICAL PANEL SCHEDULE

PANEL: A UNITS

BUS: 125A

POLES: 18

VOLTAGE: 120/240

PHASE/WIRE

MOUNTING: FLUSH

1 Ph 3 Wire

KAIC:10K

CIRCUIT NUMBERS

DESCRIPTION

AMPS

POLES

QUANTITY

1, 3

RANGE

40

2

1

5, 7, 13, 15

WATER HEATER, DRYER

30

2

2

9, 11

AHU

40

2

1

17, 19

CONDENSING UNIT

25

2

1

2

LIGHTS AND RECEPTACLES

20

1

1

4 THRU 18 EVEN

ARC-FAULT LIGHTS AND RECEPTACLES

20

1

8

20

SPARE

20

1

1

ELECTRICAL PANEL SCHEDULE

PANEL: B AND C UNITS

BUS: 125A

POLES: 24

VOLTAGE: 120/240

PHASE/WIRE

MOUNTING: FLUSH

1 Ph 3 Wire

KAIC:10K

CIRCUIT NUMBERS

DESCRIPTION

AMPS

POLES

QUANTITY

1, 3

RANGE

40

2

1

5, 7, 13, 15

WATER HEATER, DRYER

30

2

2

9, 11

AHU

50

2

1

17, 19

CONDENSING UNIT

30

2

1

2, 22

LIGHTS AND RECEPTACLES

20

1

2

4 THRU 20 EVEN

ARC-FAULT LIGHTS AND RECEPTACLES

20

1

9

21

SPARE

20

1

1

NOTES:

1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.

2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.

TFX

PANEL: CLUB-1

PANEL: CLUB-2

PANEL: POOL

PANEL: GS

400A 208V 3P NEMA 3R DS FUSED AT 400A FRN-R

3A

3

4

4

NOTES:

1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.

2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.

TFX

METER BANK LEFT (31) APT METERS (1) HOUSE METER

1200 A. M.B., 120/208V., 3PH., 4W.

65 KAIC SERIES RATED

PANEL: H1

PANEL: H1(2) FEED THROUGH

400A

400A

3

400A 208V 3P NEMA 3R DS FUSED AT 400A FRN-R

0.1

TO OTHER BLDG ENTRANCES

TO METAL WATER PIPE, UFER GROUND AND GROUND RODS

NOTES:

1. VERIFY AVAILABLE FAULT CURRENT WITH POWER CO.

2. LABEL DISCONNECTS AS SERVICE DISCONNECTS AT THE SWITCHBOARDS.

TFX

METER BANK RIGHT (31) APT METERS

1000 A. M.B., 120/208V., 3PH., 4W.

65 KAIC SERIES RATED

TYP. UNIT

SEE APT FEEDER SCHEDULE

0.1

TO OTHER BLDG ENTRANCES

TO METAL WATER PIPE, UFER GROUND AND GROUND RODS

1 METER BANK LEFT ELECTRICAL RISER

NOT TO SCALE

2 CLUBHOUSE ELECTRICAL RISER

NOT TO SCALE

3 METER BANK RIGHT ELECTRICAL RISER

NOT TO SCALE

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DATE:

3/24/2023

JOB NO.

696521

DRAWN BY:

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SHEET NO.

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DATE: 3/24/2023

JOB NO. 696521

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LSA PROJECT NO. 2204073

Autodesk Docs (Blackwell) (Griffin Riley) (Blackwell MEP P22.rvt)

3/24/2023 10:51:08 AM

NSPJ ARCHITECTS ©

Panel: H1

Location: Supply From: Mounting: Enclosure:

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 22000

Mains Type: MLO

Mains Rating: 400 A

MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT	
1	Power	20 A	12	1000	1000		12	20 A	Power	2	
3					1000	1000		12	20 A	4	
5							600	12	20 A	6	
7				1080				12	20 A	8	
9	Lighting	20 A	12		360	900		12	20 A	10	
11	Receptacle	20 A	12			1080	180	12	20 A	12	
13								12	20 A	14	
15	AHU-H5	40 A	8	5584	180	5584	180	12	20 A	16	
17					5584	180		12	20 A	18	
19	EUH-A	20 A	12	1500	120		1500	180	12	20 A	20
21	Receptacle	20 A	12			180	500	12	20 A	22	
23	Receptacle	20 A	12				900	540	12	20 A	24
25	Lighting	20 A	12	600	720			12	20 A	26	
27					5584	1500		12	20 A	28	
29	AHU-H6	40 A	8				5584	1500	12	20 A	30
31		20 A	12	475	1080			12	20 A	32	
33	Lighting	20 A	12		240	5584		8	40 A	34	
35	Receptacle	20 A	12			360	5584	12	20 A	36	
37				1500	1080			12	20 A	38	
39	EUH-A	20 A	12		1500	720		12	20 A	40	
41	Receptacle	20 A	12				720	400	12	20 A	42
43	Standard	20 A	12	0	1080			12	20 A	44	
45	Receptacle	20 A	12		1080	1500		12	20 A	46	
47	Other	20 A	12			1200	1500	12	20 A	48	
49								12	20 A	50	
51	AHU-H2	40 A	8	5584	0	5584	240	12	20 A	52	
53	Receptacle	20 A	12				400		12	20 A	54
		Total Load:		46004 VA	52189 VA	43311 VA					
		Total Amps:		387 A	438 A	361 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
HVAC	96005 VA	75.00%	72003 VA	
Lighting	4483 VA	125.00%	5604 VA	Total Conn. Load: 141504 VA
Other	1700 VA	100.00%	1700 VA	Total Est. Demand: 116284 VA
Power	10000 VA	100.00%	10000 VA	Total Conn.: 393 A
Receptacle	14660 VA	84.11%	12330 VA	Total Est. Demand: 323 A
Motor	14700 VA	100.00%	14700 VA	
HVAC Load	0 VA	0.00%	0 VA	

Notes:

Panel: H1(2)

Location: Supply From: Mounting: Enclosure:

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 22000

Mains Type: MLO

Mains Rating: 400 A

MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT	
55	AHU-H3	40 A	8	5584	240			12	20 A	56	
57					5584	750		12	20 A	58	
59	AHU-H4	40 A	8			6443	750	12	20 A	60	
61	Receptacle Space 723	20 A	12	180	120			12	20 A	62	
63	Other	20 A	12		500	4900		12	20 A	64	
65						750	4900	2	90 A	66	
67	DSS-STAIR	20 A	12		750	4900		12	20 A	68	
69	GARAGE PANEL, 120 V/208 V, Single Phase, 3 Wires	60 A	4		0	0		4	60 A	70	
71						0	0	12	20 A	72	
73	Lighting	20 A	12	1600	800		1560	8	30 A	74	
75							1560	12	20 A	76	
77								8	30 A	78	
79				1560	1560			8	30 A	80	
81	CU-H2	30 A	8		1560	1560		8	30 A	82	
83					1560	1560		8	30 A	84	
85	CU-H4	30 A	8	1560	1560			8	30 A	86	
87	Receptacle	20 A	12		540	540		12	20 A	88	
89						1560	500	12	20 A	90	
91	CU-H6	30 A	8	1560	1500			12	20 A	92	
93	Spare	20 A	--		0	1500		6	60 A	94	
95	Spare	20 A	--			0	1500	--	20 A	96	
97	Spare	20 A	--	0	0			--	20 A	98	
99	Spare	20 A	--		0	0		--	20 A	100	
101	Spare	20 A	--			0	0	--	20 A	102	
103	Spare	20 A	--	0	0			--	20 A	104	
105	Spare	20 A	--		0	0		--	20 A	106	
107	Spare	20 A	--				0	0	--	20 A	108
		Total Load:		23456 VA	18994 VA	21083 VA					
		Total Amps:		198 A	158 A	178 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
HVAC	39331 VA	75.00%	29499 VA	
Lighting	2245 VA	125.00%	2806 VA	Total Conn. Load: 63534 VA
Other	500 VA	100.00%	500 VA	Total Est. Demand: 54261 VA
Power	5500 VA	100.00%	5500 VA	Total Conn.: 176 A
Receptacle	1260 VA	100.00%	1260 VA	Total Est. Demand: 151 A
Motor	14700 VA	100.00%	14700 VA	

Notes:

Panel: CLUB-1

Location: Supply From: Mounting: Enclosure:

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 22000

Mains Type: MLO

Mains Rating: 400 A

MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT	
1				0	2120			12	20 A	2	
3	AHU-CL5	40 A	8		0	1940		12	20 A	4	
5								12	20 A	6	
7	EUH-A	20 A	12	1500	540		1500	1080	12	20 A	8
9					1340	360		12	20 A	10	
11	POOL	100 A				4040	900	12	20 A	12	
13				0	1260			12	20 A	14	
15	Receptacle GYM 26	20 A	12		360	180		12	20 A	16	
17	Receptacle GYM 26	20 A	12			360	180	12	20 A	18	
19	Receptacle GYM 26	20 A	12	360	540			12	20 A	20	
21					1500	720		12	20 A	22	
23	EUH-A	20 A	12			1500	360	12	20 A	24	
25	Receptacle Room 33, 31, 32	20 A	12	720	540			12	20 A	26	
27	Receptacle FITNESS RM. 27	20 A	12		360	1040		12	20 A	28	
29						0	1040	12	20 A	30	
31	AHU-CL4	40 A	8	0	720			12	20 A	32	
33	Receptacle ELEVATOR 38	20 A	12		180	180		12	20 A	34	
35	Receptacle Room 35, 34	20 A	12			1260	900	12	20 A	36	
37	Receptacle	20 A	12	1340	1340			12	20 A	38	
39	Room 3	20 A	12		900	900		12	20 A	40	
41	Receptacle	20 A	12			900	0	8	40 A	42	
43	Standard	20 A	12	0	0			12	20 A	44	
45	Receptacle ELEVATOR 38	20 A	12		180	180		12	20 A	46	
47						2450	500	12	20 A	48	
49	ELEVATOR (SHUNT TRIP) VERIFY	60 A	6	2450	1500	2450	1500	12	20 A	50	
51							--	--		52	
53							--	--		54	
		Total Load:		38439 VA	39480 VA	35491 VA					
		Total Amps:		324 A	333 A	296 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
HVAC	60371 VA	75.00%	45278 VA	
Lighting	240 VA	125.00%	300 VA	Total Conn. Load: 113409 VA
Other	6740 VA	100.00%	6740 VA	Total Est. Demand: 89463 VA
Power	500 VA	100.00%	500 VA	Total Conn.: 315 A
Receptacle	27820 VA	67.97%	18910 VA	Total Est. Demand: 248 A
Motor	7350 VA	100.00%	7350 VA	
HVAC Load	0 VA	0.00%	0 VA	
Range	10400 VA	100.00%	10400 VA	

Notes:

Panel: CLUB-2

Location: Supply From: Mounting: Enclosure:

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 22000

Mains Type: mlo

Mains Rating: 100 A

MCB Rating:

Notes:

CKT	Circuit Description	Trip	Wire Size	A	B	C	Wire Size	Trip	Circuit Description	CKT
55	Receptacle	20 A	12	720	1080		12	20 A	Receptacle	56
57					0	180		12	20 A	58
59	HVAC Load CO-WORK-1 44-1	20 A	12			0	360	12	20 A	60
61	Receptacle	20 A	12	540	3609			8	40 A	62
63	Receptacle	20 A	12		660	3609		12	20 A	64
65	Receptacle	20 A	12			1200	360	12	20 A	66
67	Receptacle	20 A	12	180	5200			12	20 A	68
69	Receptacle	20 A	12		540	5200		12	20 A	70
71	Receptacle	20 A	12			720	360	12	20 A	72
73								8	30 A	74
75	CU-CL5	3 A	8	2808	2808	2808	2808	8	30 A	76
77					2808	2808		8	30 A	78
79	CU-CL2	30 A	8	2808	2808		2808	8	30 A	80
81					2808	2808		8	30 A	82
83	CU-CL1	30 A	8			2808	2808	8	30 A	84
85	Other ELEVATOR 39	20 A	12	120	0			12	20 A	86
87	Lighting	20 A	12		0	0		12	20 A	88
89	Other	20 A	12			0	0	12	20 A	90
91	Other CORRIDOR 37	20 A	12	0	120			12	20 A	92
93	Other STORAGE 31	20 A	12		0	3609		8	40 A	94
95	Spare	20 A	--			0	3609		20 A	96
97	Spare	20 A	--	0	720				20 A	98
99	Spare	20 A	--		0	180			20 A	100
101	Spare	20 A	--			0	180		20 A	102
103	Spare	20 A	--	0	0				20 A	104
105	Spare	20 A	--		0	0			20 A	106
107	Spare	20 A	--			0	500		20 A	108
		Total Load:		23509 VA	25210 VA	18521 VA				
		Total Amps:		202 A	216 A	154 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
HVAC	48251 VA	75.00%	36188 VA	
Lighting	240 VA	125.00%	300 VA	Total Conn. Load: 67239 VA
Other	0 VA	0.00%	0 VA	Total Est. Demand: 55233 VA
Power	500 VA	100.00%	500 VA	Total Conn.: 187 A
Receptacle	7860 VA	100.00%	7860 VA	Total Est. Demand: 153 A
HVAC Load	0 VA	0.00%	0 VA	
Range	10400 VA	100.00%	10400 VA	

Notes:

Panel: POOL

Location: Supply From: Mounting: Enclosure:

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 22000

Mains Type: MLO

Mains Rating: 100 A

MCB Rating:

Notes:

CKT	Circuit Description	Trip
-----	---------------------	------

LEGEND:

1

PROVIDE 3/4"X4"X8' A-C FIRE RETARDANT PLYWOOD ON WALL, INSTALLED 6" AFF FASTEN SECURELY. PAINT PLYWOOD WITH (2) COATS OF, LOW GLOSS, LIGHT COLORED PAINT.

2

TMGB: 1/4"x4"x16" BUSBAR, HARGER GROUND BAR TGBI14416TMGBKT OR EQUAL PROVIDE #3/0 MAIN ELECTRICAL SERVICE GROUND.

3

TGB: 1/4"x4"x12" BUSBAR, HARGER GROUND BAR TGBI14412TMGBKT OR EQUAL PROVIDE #1/0 TO TMGB IN MDF.

4

(2) 2" EMT CONDUITS FOR VOICE/DATA BACKBONE CABLING.

5

2" EMT CONDUIT TO WEATHERHEAD ON ROOF FOR POTENTIAL FUTURE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) CABLING PATHWAY. REFER TO WEATHERHEAD DETAIL.

NOTES:

1.

ROUTE ALL VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A

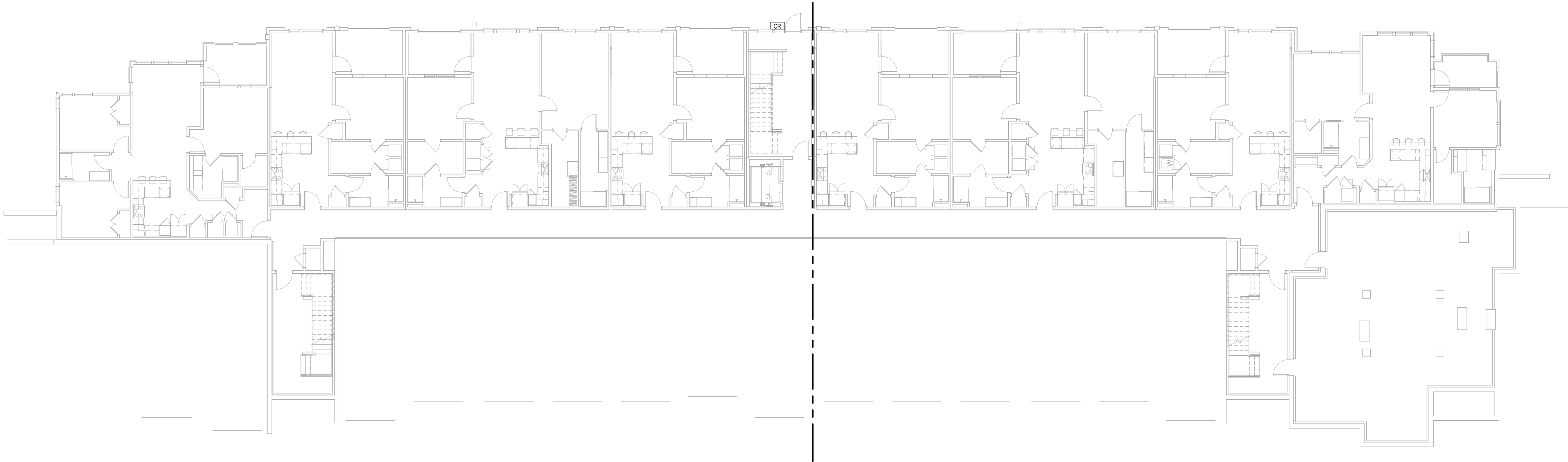
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RICHARD P. BEARDMORE
PROFESSIONAL ENGINEER
3-24-23



1

LOWER LEVEL BUILDING - TELECOM

TELECOM
3/32" = 1'-0"

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO



DRAWING RELEASE LOG

REVISIONS:

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Latimer Sommers
& Associates P.A.
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LSA PROJECT NO. 2204073

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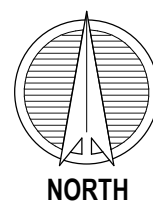
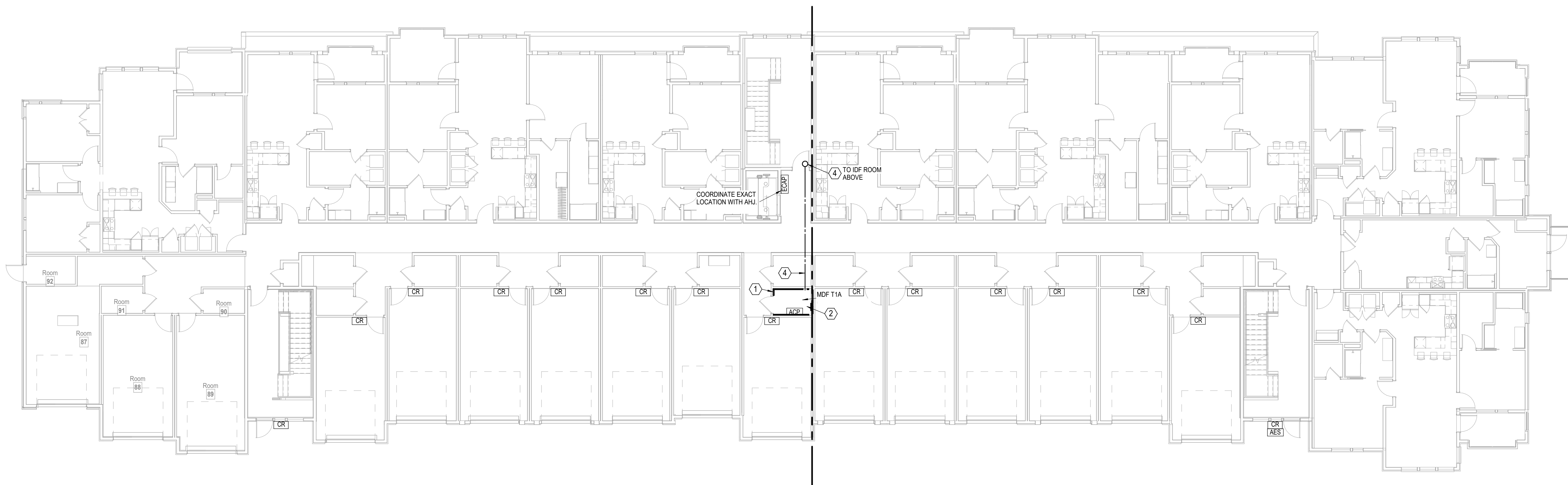
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1

1ST FLOOR BUILDING PLAN

TELECOM
3/32" = 1'-0"

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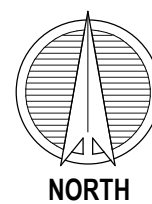
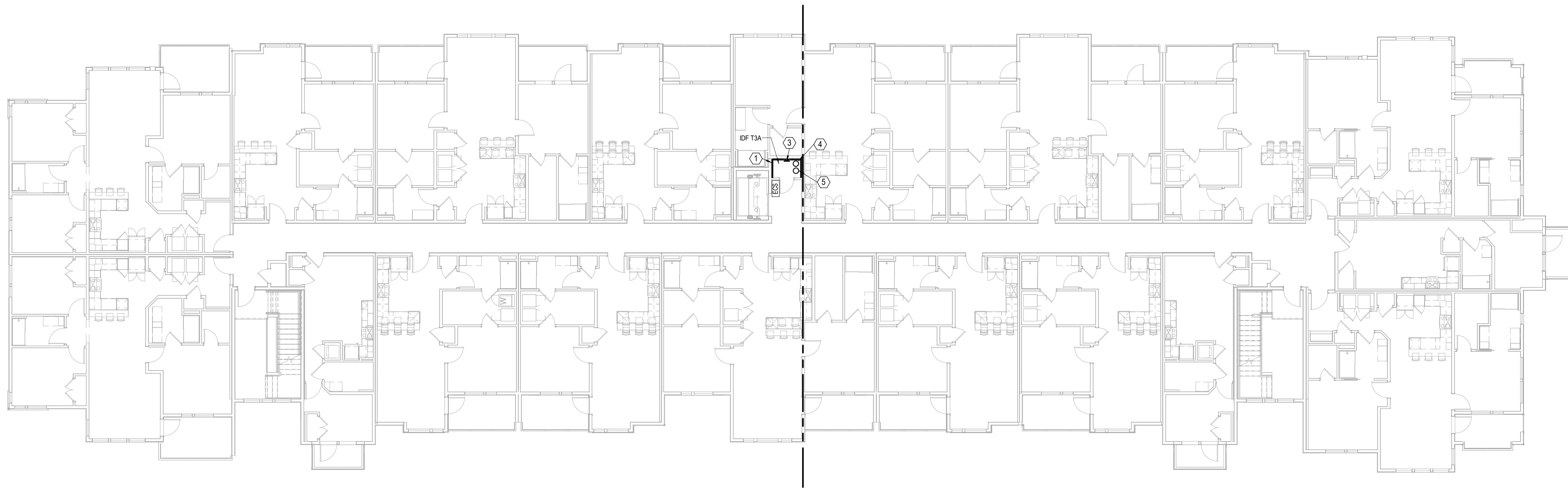
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1 3RD FLOOR BUILDING PLAN
TELECOM
3/32" = 1'-0"

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UNISEX [33]
UNISEX [32]
STORAGE [31]
CORRIDOR [37]
ELEVATOR [38]
FITNESS RM [27]
MECH. RM. [28]
WOMEN-3 [29-3]
WOMEN-2 [29-2]
WOMEN-1 [29-1]
MEN [30]
GYM [26]
LOUNGE [35]
BOARD RM [22]
POOL EQUIPMENT [23]
DOG WASH ROOM [24]
MECH. RM. [25]
GOLF SIMULATOR [34]

VERIFY EXACT LOCATION AND QUANTITY WITH FINAL FITNESS LAYOUT.

COORDINATE EXACT LOCATION WITH AHU

VERIFY EXACT LOCATION AND QUANTITY WITH FINAL FITNESS LAYOUT.

VERIFY EXACT LOCATION AND QUANTITY WITH FINAL GOLF SIMULATOR LAYOUT.

NOTES:	
1.	ROUTE ALL VOICE/DATA CABLING/INFRASTRUCTURE TO MDF T1A



A NEW DEVELOPMENT:

RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO



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ARCH D 24" x 36"

2

NOTES:

1. DISTRIBUTED ANTENNA SYSTEM: IF BUILDING DOES NOT MEET INTERNATIONAL FIRE CODE (IFC) 510 REQUIREMENTS, CONTRACTOR SHALL INSTALL AND CERTIFY A COMPLIANT IN-BUILDING PUBLIC SAFETY DISTRIBUTED ANTENNA SYSTEM (DAS) ALSO CALLED AN EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS). THE SYSTEM SHALL INCLUDE, BUT NOT LIMITED TO ALL EQUIPMENT, MATERIALS, LABOR, DOCUMENTATION AND SERVICES NECESSARY TO FURNISH AND INSTALL A COMPLETE, OPERATIONAL PUBLIC SAFETY DAS OR ERRCS. ALL WORK TO BE CONDUCTED OR SUPERVISED BY A QUALIFIED SYSTEM INTEGRATOR WITH EXPERIENCE DESIGNING, TESTING, INSTALLING, CERTIFYING AND MAINTAINING EMERGENCY RESPONDER RADIO COVERAGE SYSTEMS. A PRELIMINARY TEST OF EXISTING, UNAMPLIFIED IN-BUILDING RADIO FREQUENCY (RF) SIGNAL COVERAGE SHALL BE CONDUCTED AT 80% CONSTRUCTION COMPLETION PRIOR TO DESIGN AND INSTALLATION OF SYSTEM. TESTING SHALL BE CONDUCTED WITH THE LATEST TEST EQUIPMENT AND ANALYTICS SOFTWARE VERSIONS AVAILABLE. CONTRACTOR SHALL PROVIDE \$3,000 ALLOWANCE FOR TESTING AND \$25,000 ALLOWANCE FOR SYSTEM INSTALL.

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STATE OF MISSOURI
RICHARD J. BEARDMORE
Professional Engineer
3-24-23

3

4

5

TWO-WAY COMMUNICATION SYSTEM SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
ECAP	CORNELL	A-4800M	EMERGENCY CALL ANNUNCIATOR PANEL	1, 4
ECS	CORNELL	4800V	EMERGENCY CALL STATION	2, 4
PS	CORNELL	B-5248A	POWER SUPPLY	3

REMARKS:
1 - PROVIDE POWER SUPPLIES AS REQUIRED. PROVIDE WITH STI MODEL #STI-7521 NEMA 4X CLEAR ENCLOSURE WITH THUMB LOCK.
2 - PROVIDE WITH DOUBLE GANG BACKBOX AND STI MODEL #STI-7511E CLEAR ENCLOSURE WITH THUMB LOCK.
3 - VERIFY SIZE OF POWER SUPPLY WITH LAYOUT OF THE SYSTEM.
4 - VERIFY LOCATION WITH AHJ.

6

7

CABLE LEGEND:

10	PROXIMITY CARD READER (ORANGE)
20	MAGNETIC SWITCH (WHITE)
30	ELECTRIC LOCK (GRAY)
40	REQUEST TO EXIT (BLUE)
50	ELECTRIC LOCK FROM PS TO PUSHBAR

ACCESS CONTROL CABLE SCHEDULE:

10, 20, 30, 40	BELDEN MODEL #538AFS
50	BELDEN MODEL #5302FE

ACCESS CONTROL DEVICE LEGEND:

ACP	ACCESS CONTROL PANEL
CR	HID CARD READER
REX	REQUEST TO EXIT *
DP	DOOR POSITION SWITCH *
EL	ELECTRIC LOCK (24V. DC) *
PS	POWER SUPPLY (24V. DC) *
ADA	ADA PUSHBUTTON *
DADA	DUAL ADA PUSHBUTTON*
ADAM	ADA MOTORIZED OPERATOR *
VIMS	VIDEO INTERCOM MASTER STATION
VIC	VIDEO INTERCOM

* - INDICATES PROVIDED BY DOOR HARDWARE SUPPLIER. REFER TO DOOR HARDWARE SPECIFICATIONS FOR FURTHER WIRING, POWER, AND PROGRAMMING REQUIREMENTS.

ACCESS CONTROL CABLE SCHEDULE

MARK	MANUFACTURER	MODEL/PART NUMBER	DESCRIPTION	REMARKS
10, 20, 30, 40	BELDEN	538AFS	INSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1
50	BELDEN	5302UE	ELECTRIC LOCK CABLE 18 GA 4 COND STRANDED	1, 2
50	CSC	759218	OUTSIDE ACCESS CONTROL CABLE (COMBO CABLE)	1

REMARKS:
1 - PROVIDED AND INSTALLED BY E/C.
2 - E/C TO ROUTE CABLE FROM DEVICE AND LEAVE A 8'-0" SERVICE LOOP AT THE BURGLAR ALARM PANEL. PROVIDE A 24" SERVICE LOOP AT DEVICE.
3 - PROVIDED AS A PART OF THE DOOR HARDWARE PACKAGE.

SECURITY SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
CR	DORMAKABA	SAFFIRE	CARD READER	
ACP	DORMAKABA	SAFFIRE	ACCESS CONTROL PANEL	1
AES	MIRCON		APARTMENT ENTRY SYSTEM	
	HID		FOBs	1

REMARKS:
1 - VERIFY QUANTITY WITH OWNER.

A NEW DEVELOPMENT:
RESIDENCES AT BLACKWELL
50 Highway & Blackwell, Lee's Summit, MO

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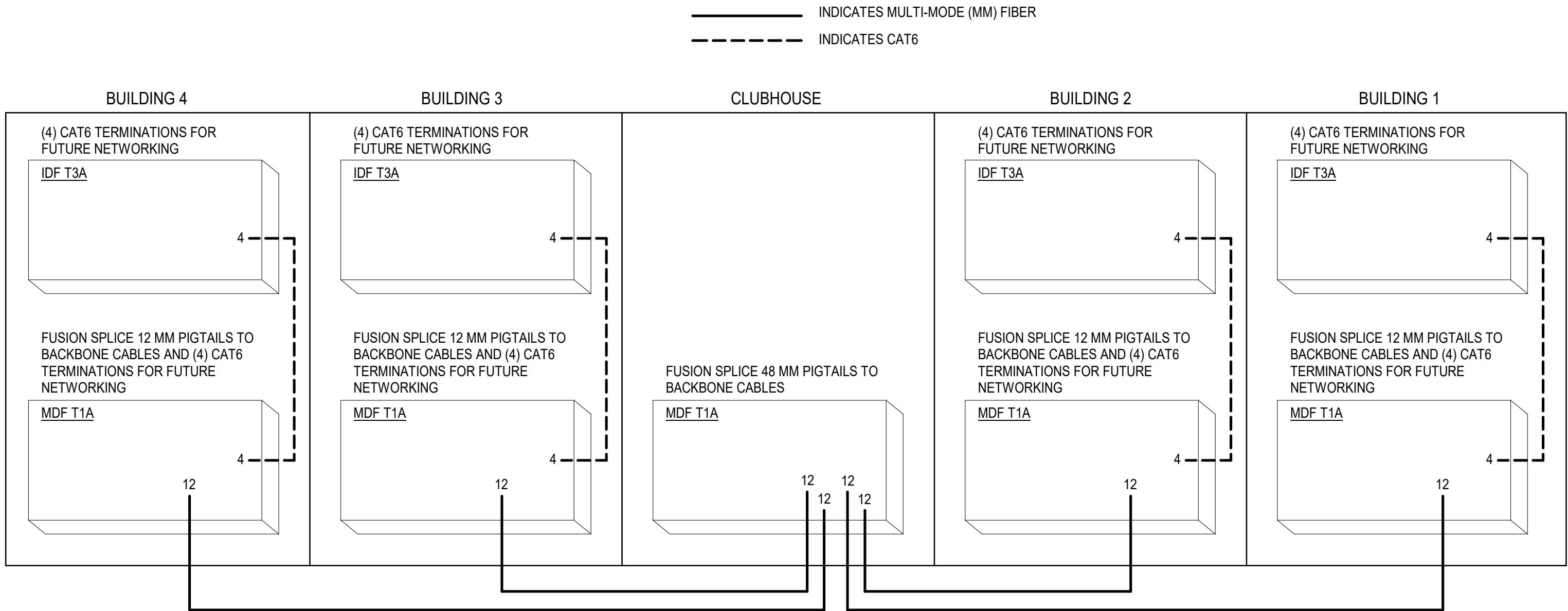
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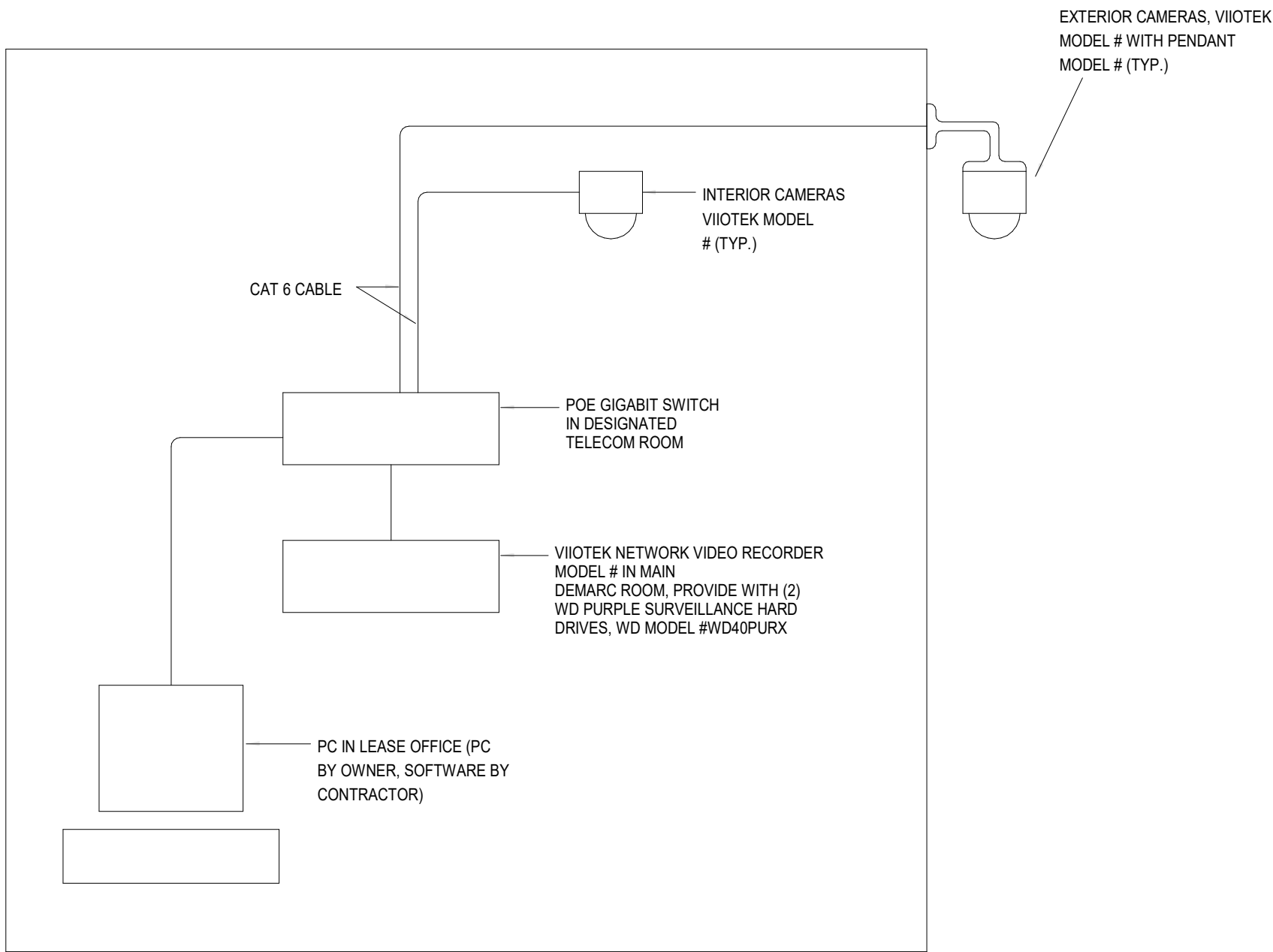
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1 **BACKBONE CABLE TERMINATION DETAIL**
NOT TO SCALE



2 **TYPICAL SECURITY CAMERA DETAIL**
NOT TO SCALE

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Lee's Summit, Missouri
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