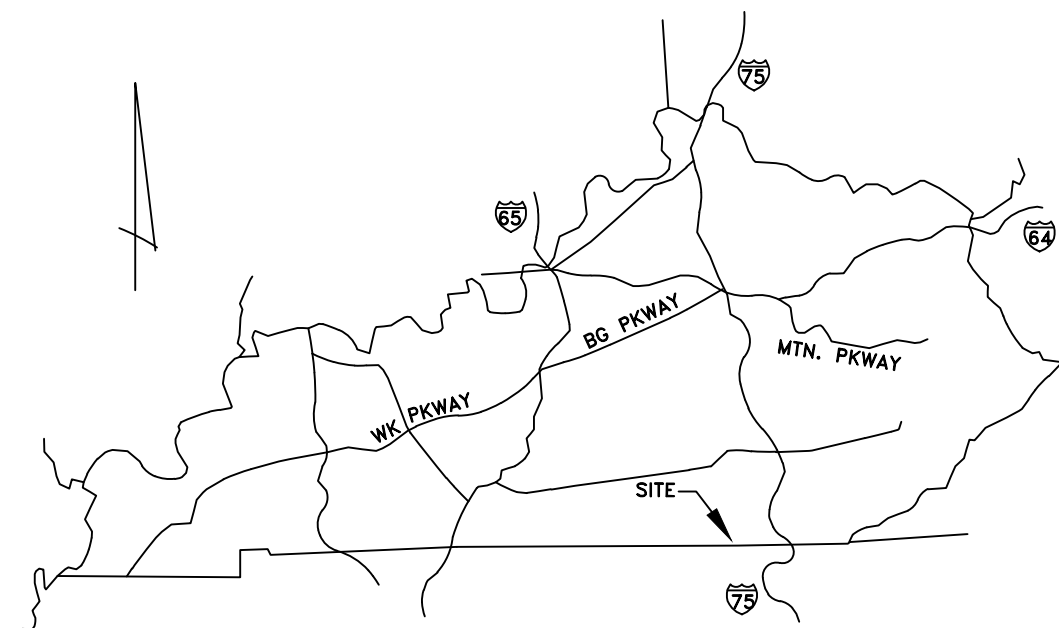


HISTORIC STEARNS DOWNTOWN REVITALIZATION STORE 1 & 3 RENOVATION STEARNS, KENTUCKY

PHASE ONE
EDA AWARD # 04-79-07710



nsc Engineers
Architects
Planners
OF KENTUCKY, INC.
624 Wellington Way
Lexington, KY 40503
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CODE INFORMATION:
Building Code: 2018 Kentucky Building Code, Third Edition
Project: Historic Stearns Store 1 & 3 Renovation
Project Site Address: HENDERSON ST. & HWY 1651
Brief Description: Museum and Apartment Spaces. Wood exterior with wood stud framing, cmu block wall, wood roof trusses, with asphalt shingle roof.
Use Group: A-3, Museum, Meeting Space ; R-2, Apartments; B, Office, Conference Room.

Heights and Areas: Table 504.3 Allowable Building Height in Feet above grade plane 40 FEET + 20 =60'
Table 504.3 Construction Type VB sprinkled. 55.16 feet actual height.
Table 504.4 Allowable number of stories above grade plane; A-3: 1 stories allowed. R-2: 2 stories allowed. 1 story increase.
Table 506.2 Allowable Area Factor Type VB, A-3, 6,000 SF allowed. R-2, 7,000 SF allowed. Sprinkled increased. 200 percent. A-3 12,000 SF. R-2 14,000 SF.

Section 1004 Occupant Load:
Assembly Areas, Second floor- Museum - 30 net (based on SF = Occupants) New 4,686 SQ. FT. LOAD 156
Assembly Areas, First floor - Community Hall - 15 net (based on SF = Occupants) Existing
Residential Areas, Third Floor- 200 gross (based on SF = Occupants) New 3,445 Sq. Ft. Load 17
Business Areas, Third floor- 100 gross (based on SF = Occupants) New 1,615 SQ. FT. Load 16

Phase two will add FiveB Construction, one hour rated and 100 percent NFPA 13 Sprinkler System.

DATE: APRIL, 2025

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PLUMBING PLAN.....	P-1.3

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POWER & SYSTEMS PLAN.....	E-2.3
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ELECTRICAL SPECIFICATIONS.....	E-7.1

SET NO.

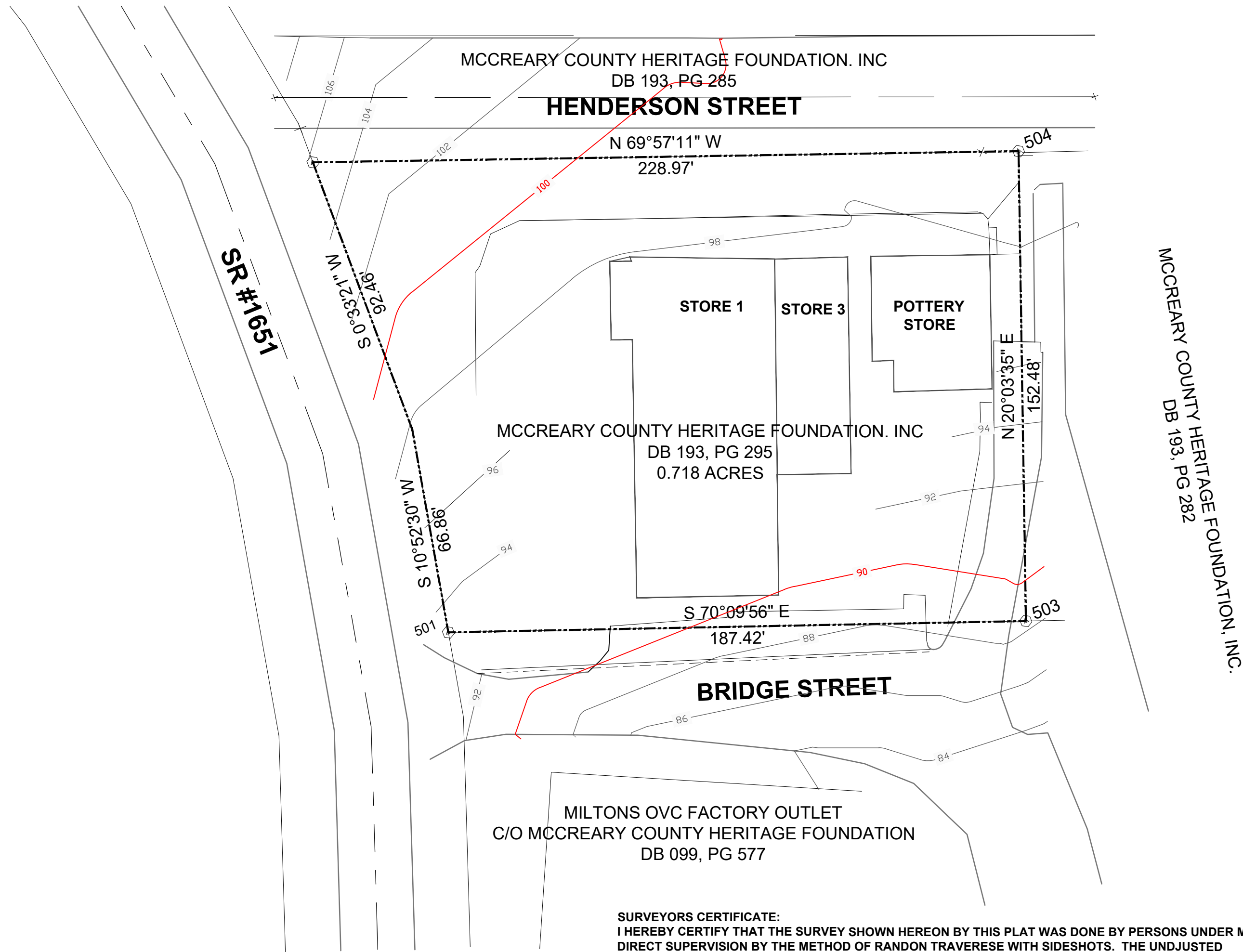


VICINITY MAP

NOTES:

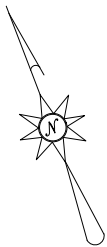
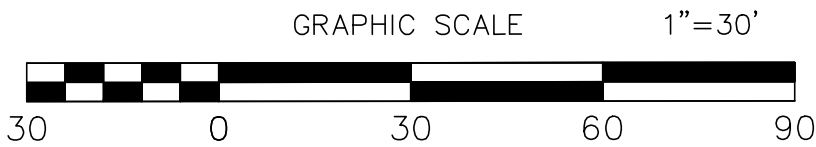
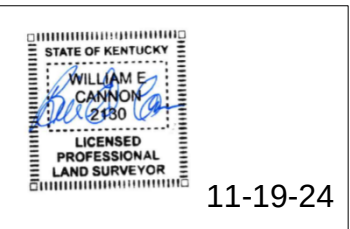
IN ACCORDANCE WITH MCCREARY COUNTY UNINCORPORATED AREAS, 210343, FLOOD MAP NO. 21147C0225C, EFFECTIVE DATE 3/16/2015 REVEALS THIS PROPERTY IS NOT WITHIN ANY SPECIAL FLOOD PLAIN AREAS.

THE NORTH DATUM UTILIZED FOR THIS SURVEY IS BASED ON A MAGNETIC OBSERVATION 9/23/2024.



SURVEYORS CERTIFICATE:
I HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON BY THIS PLAT WAS DONE BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDESHOTS. THE UNJUSTIFIED PRECISION RATIO OF THE TRAVERSE WAS 1:11,902 AND WAS NOT ADJUSTED. THE SURVEY SHOWN HEREON IS AN INDUSTRIAL SURVEY WITH THE ACCURACY AND PERCISION OF SAID SURVEY MEETING ALL SPECIFICATIONS FOR THIS CLASS.

BILL ED CANNON, PLS 2130



SITE SURVEY AND TOPOGRAPHY
FOR
MCCREARY COUNTY HERITAGE FOUNDATION, INC.
STEARNS, KENTUCKY

PROJECT NO.	FILE NAME	DATE	REVISION	BY
STEARNS-SURVEY	DESIGNED BY			
BEC	JW			
CHECKED BY	BEC			
REVIEWED BY	BEC			
DATE	11-19-2024			
SCALE	As Shown			

BILL ED CANNON
Engineer (11715) / Surveyor (2130)

116 N Poplar Avenue
Cobden, KY 40701
Phone: (606) 620-5161 / (864) 923-6010
www.billedcannon@gmail.com

DRAWING NO.

PS-1

SHEET OF

STRUCTURAL QUALITY ASSURANCE PLAN

GENERAL

THE NEW STRUCTURE TO BE CONSTRUCTED IS ASSIGNED BY THE KENTUCKY BUILDING CODE, 2018 EDITION, TO SEISMIC USE GROUP AND SEISMIC DESIGN AS SPECIFIED. AS SUCH, THE BUILDING CODE MANDATES SPECIAL INSPECTION (SECTION 1704), SPECIAL INSPECTIONS FOR WIND RESISTANCE (SECTION 1705.11), SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (SECTION 1705.12), STRUCTURAL OBSERVATION FOR SEISMIC RESISTANCE (SECTION 1704.6.1) AND STRUCTURAL OBSERVATIONS FOR WIND REQUIREMENTS (SECTION 1704.6.2). STRUCTURAL QUALITY ASSURANCE PLAN SPECIFICALLY IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE REQUIRED TESTING AND INSPECTION OF THE STRUCTURAL WORK.

CONTRACTOR RESPONSIBILITIES

In accordance with Section 1704.4 of the Building Code, the Contractor shall submit to the Building Official and the Architect a written statement of responsibility that contains the following:

1. Acknowledgement of awareness of the special requirements contained within this Structural Quality Assurance Plan.
2. Acknowledgement that control shall be exercised to obtain conformance with the construction documents approved by the Building Official.
3. Procedures for exercising control with the Contractor's organization, the method and frequency of reporting, and the distribution of reports.
4. Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.

The Structural Testing/Inspection Agency that is to act as the Special Inspector will be hired by the Owner.

Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents due to negligence or nonconformance and shall pay for any additional structural testing/inspection required for his convenience.

The Contractor is responsible to ensure that the Special Inspector is present for all work requiring special inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed.

The Contractor has the following responsibilities to the Special Inspector:

1. Provide copy of Construction Documents to the Special Inspector.
2. Notify the Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
3. Cooperate with Special Inspector and provide access to work.
4. Provide samples of materials to be tested in required quantities.
5. Provide storage space for the Special Inspector's exclusive use, such as for storing and curing concrete testing samples.
6. Provide labor to assist the Special Inspector in performing tests/inspections.

SPECIAL INSPECTOR RESPONSIBILITIES

The Special Inspector shall maintain records of inspections in accordance with Section 1704.2.4 and shall distribute these records to the Architect and Structural Engineer on a weekly basis. At the conclusion of the project, the Special Inspector shall submit a written statement that the special inspections during construction have complied with this Structural Quality Assurance Plan and that any discrepancies noted during construction have been corrected.

SOILS & ROCK BEARING

The Special Inspector shall perform the following:

1. Verify structural fill complies with specifications and the geotechnical report.
2. Observe proof-rolling.
3. Perform field density tests to verify compaction of structural fill. As a minimum, perform one test per lift for every 2500 square feet of fill placed.
4. Inspect footing trenches & ensure proper bearing on rock & conc. fill to rock per geotechnical report and specifications.

CAST-IN-PLACE CONCRETE

The Contractor shall perform the following:

1. Establish concrete mix design proportions per ACI 318, Chapter 5. Submit (5) copies of concrete mix designs. Include the following:
 - a. Type and quantities of materials
 - b. Slump
 - c. Air content
 - d. Fresh unit weight
 - e. Aggregates sieve analysis
 - f. Design compressive strength
 - g. Location of placement in structure
 - h. Method of placement
 - i. Method of curing
 - j. Seven-day and 28-day compressive strengths
2. Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the specified ASTM and ACI standards.
3. Submit certification that the ready-mixed concrete plant complies with the requirements of the National Ready Mix Concrete Association.

The Special Inspector shall perform the following:

1. Verify quantity, location, and placement of reinforcing steel prior to concrete placement.
2. Examine concrete in truck to verify that concrete appears properly mixed.
3. Perform a slump test as deemed necessary for each concrete load. Record if water or admixtures are added to the concrete at the job site. Perform additional slump tests after job site adjustments.
4. Mold four specimens per set for compressive strength testing; one set for each 50 cubic yards (or portion thereof) of each mix design in any one day. For each set set molded, record:
 - a. Slump
 - b. Air content
 - c. Unit weight
 - d. Temperature, ambient and concrete
 - e. Location of placement
 - f. Any pertinent information, such as addition of water, addition of admixtures, etc.
5. Perform one 7-day and two 28-day compressive strength tests. (Use one as a spare to be broken as directed by the Structural Engineer if compressive strengths do not appear adequate.)
6. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break.

CONCRETE MASONRY

Contractor shall perform the following:

1. Submit a certification from each manufacturer or supplier stating that the following materials comply with the specified ASTM or ACI Standards:
 - a. Concrete masonry units.
 - b. Mortar materials: Portland cement, hydrated lime, and aggregates.
 - c. Grout materials: Portland cement and aggregates.
 - d. Joint reinforcement steel.
 - e. Reinforcing steel.
2. For reinforcing steel used in concrete masonry walls, submit certified mill test reports.

Special Inspector shall perform the following:

1. Verify compressive strength of concrete masonry units, mortar, and coarse grout for every 5,000 sq. ft. of surface area (or portion thereof) as follows:
 - a. Three (3) concrete masonry units shall be tested in accordance with ASTM C140.
 - b. Six (6) mortar cube specimens shall be tested, three (3) at 7-days and three (3) at 28-days, in accordance with ASTM C109.
 - c. Four (4) coarse grout specimens shall be tested, two (2) at 7-days and two (2) at 28-days, in accordance with ASTM C-109.
 - d. In lieu of individual tests of masonry units, mortar, and grout, perform one (1) prism test (which consists of three prisms) in accordance with ASTM E447.
2. Provide continuous inspection to verify compliance of the following:
 - a. Cleanliness of grout space prior to grouting.
 - b. Placement of grout in reinforced cells.
 - c. Preparation of required grout and mortar specimens.
 - d. Welding of reinforcing bars.
3. Provide periodic inspection to verify compliance of the following:
 - a. Proportions of site-prepared mortar or grout.
 - b. Construction of mortar joints.
 - c. Quantity, size, location, and support of reinforcing steel.
 - d. Quantity, size, and placement of horizontal joint reinforcement.
 - e. Type, size and location of anchors.
 - f. Protection of masonry during cold or hot weather.

STRUCTURAL STEEL

The Contractor shall perform the following:

1. The steel fabricator shall be AISC or AWS Certified, refer to Spec. 05120.
 2. Submit certified mill test reports for structural steel.
 3. Submit manufacturer's certificate of compliance fro high-strength bolting and weld filler materials.
- ** If the fabricator is not certified, then the fabricator shall reimburse the owner for the costs of these tests.**

The Special Inspector shall perform the following:

1. Provide continuous inspection to verify compliance of the following:
 - a. Inspection of slip-critical connections, except periodic inspection may be performed when using torque control bolts (twist off)
 - b. Complete and partial penetration groove welds. Ultrasonically inspect 100% of the complete penetration welds.
 - c. Multi-pass fillet welds and single-pass fillet welds greater than 5/16".
2. Provide periodic inspection to verify compliance of the following:
 - a. Material verification of high-strength bolts, nuts, and washers.
 - b. Material verification of structural steel.
 - c. Material verification of weld filler material.
 - d. Anchor bolt size, configuration, and embedment shall be verified prior to placement of concrete.
 - e. Visually inspect all field-welded connection. Visual inspection of welded joints includes periodic examination of fitup.
 - f. Verify stud shear connector spacing and location. Visually inspect welding of stud shear connectors.
3. Weld Inspections:
 - a. Weld inspections shall be in accordance with AWS D1.1.
 - b. Review and verify compliance of written welding procedures with AWS requirements.
 - c. Verify that welding procedures are being adhered to during field welding.
 - d. Verify welder qualifications.
 - e. Use all means necessary to determine the quality of welds. The inspector may use gamma ray, magnaflux, trepanning, sonics or any other aid to visual inspection that the Special Inspector may deem necessary to be assured of the adequacy of the welding.
 - f. Keep a systematic record of all welds that include, in addition to other required records, the identification marks of welders, a list of defective welds, and the manner of correcting defects.
4. Bolting inspection and testing shall be in accordance with AISC Specifications for Structural Joints Using ASTM A325 or A490 Bolts.

WOOD TRUSSES

1. Lumber Specifications:
Top and bottom chords to be No. 2 (2x4 minimum) Southern Pine minimum. Web members to be No. 2 Southern Pine minimum. (2x4 minimum)
2. Provide 2x4 cross bracing or bridging at all 1/3 points of the truss span for the bottom chord. All wood truss bracing shall conform to the Truss Plate Institute HIB--(latest edition).
3. The erection and handling of the wood trusses must follow the Truss Plate Institute HIB--(latest edition).
4. Truss gusset plates shall be steel, either nailed or press-in, complying with the standards of the Truss Plate Institute HIB--(latest edition).
5. The structural design of the wood trusses shall be based on the design loads shown. Should truss design or design loads vary from that shown, comply with local design codes. The Contractor shall submit truss shop drawings, including structural calculations, signed and sealed by a Structural Engineer, licensed to practice in Kentucky, for review.
6. Design loads for wood trusses are as follows:
TOP CHORD: Dead load = 15 PSF
Live load = 20 PSF
Wind load = per KBC
Snow load = per KBC
BOTTOM CHORD: Dead load = 10 PSF
7. Superimposed dead loads due to over built wood framing shall be added to the loads given above.
8. Design of wood trusses and their connections shall be the sole responsibility of the Contractor. Design and shop drawing submittals shall comply with the Specifications. Shop drawings shall be sealed by an Engineer licensed in the project state.
9. In accordance to KBC Section 2303.4.1.3 for trusses spanning over 60 ft, a sealed temporary and permanent bracing plan shall be provided. The bracing plans shall comply with the requirements of BCSI "Guide to good practice of handling, installing, restraining and bracing metal plate connected wood trusses".
10. Under 60ft a sealed bracing plan is not required; however all trusses shall be braced in accordance with the requirements of BCSI "Guide to good practice of handling, installing, restraining and bracing metal plate connected wood trusses".

SPECIAL INSPECTIONS PER CHAPTER 17 OF THE KENTUCKY BUILDING CODE

SECTION	ITEM	REQUIRED?		REMARKS
		YES	NO	
1704.2.5	FABRICATORS	—	X	FABRICATION OF WOOD TRUSSES PER SECTION 1704.2.5
1704.6.1	STRUCTURAL OBSERVATION FOR SEISMIC REQUIREMENTS	—	X	SEISMIC DESIGN CATEGORY "C"
1704.6.2	STRUCTURAL OBSERVATION FOR WIND REQUIREMENTS	—	X	Vasd = 93mph
1705.2	STEEL	X	—	PER AISC 360 & TABLE 1705.2.2
1705.3	CONCRETE	X	—	PER TABLE 1705.3
1705.4	MASONRY	X	—	LEVEL B TMS 402/ACI 530/ASCE 5
1705.5	WOOD	—	X	PER SECTION 1705.5
1705.6	SOILS	X	—	PER TABLE 1705.6
1705.7	DRIVEN DEEP FOUNDATIONS	—	X	NONE
1705.8	CAST IN PLACE DEEP FOUNDATIONS	—	X	NONE
1705.9	HELICAL PILE FOUNDATIONS	—	X	NONE
1705.11.1	WIND - STRUCTURAL WOOD	—	X	Vasd = 89mph
1705.11.2	WIND - COLD FORMED STEEL FRAMING	—	X	NONE
1705.11.3	WIND - WIND RESISTING COMPONENTS	—	X	NONE
1705.12.1	SEISMIC - STRUCTURAL STEEL	—	X	SEISMIC DESIGN CATEGORY "C"
1705.12.2	SEISMIC - STRUCTURAL WOOD	—	X	PER SECTION 1705.12.2
1705.12.3	SEISMIC - COLD FORMED STEEL FRAMING	—	X	SEISMIC DESIGN CATEGORY "C"
1705.12.4	DESIGNATED SEISMIC SYSTEMS	—	X	SEISMIC DESIGN CATEGORY "C"
1705.12.5	SEISMIC - ARCHITECTURAL COMPONENTS INTERIOR/EXTERIOR NON-LOAD BEARING WALLS & VENEER IN STRUCTURES	—	X	SEISMIC DESIGN CATEGORY "C"
1705.12.6	SEISMIC - MECHANICAL & ELECTRICAL COMPONENTS	—	X	SEISMIC DESIGN CATEGORY "C"
1705.12.7	SEISMIC - STORAGE RACKS & ACCESS FLOORS	—	X	NONE
1705.14	SPRAYED FIREPROOFING	X	—	1705.14
1705.15	FIREPROOFING	X	—	1705.15
1705.16	E.I.F.S.	X	—	PER SECTION 1705.16
1705.17	FIRE RESISTANT PENETRATIONS & JOINTS	—	X	NONE
1705.18	SMOKE CONTROL	—	X	NONE

EARTHQUAKE DESIGN DATA

RISK CATEGORY	II
IMPORTANCE FACTOR	1.0
S _s	0.264
S _i	0.097
SITE CLASS	D
S _{ps}	0.280
S _{pi}	0.156
SEISMIC DESIGN CATEGORY	C
BASIC SEISMIC-FORCE RESISTING SYSTEM	LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
DESIGN BASE SHEAR	0.0244xW
SEISMIC RESPONSE COEFFICIENT (C)	0.0244
RESPONSE MODIFICATION FACTOR	6.5
ANALYSIS PROCEDURE	ELFP

SNOW DESIGN DATA

GROUND SNOW LOAD (P _g)	15 PSF
FLAT ROOF SNOW LOAD (P _f)	10.9 PSF
IMPORTANCE FACTOR	1.0
THERMAL FACTOR (C _t)	1.1
SNOW EXPOSURE FACTOR (C _e)	0.9

DESIGN LIVE LOADS

ROOF	20 PSF
SLAB ON GRADE	100 PSF
UPPER FLOORS	100 PSF

WIND DESIGN DATA

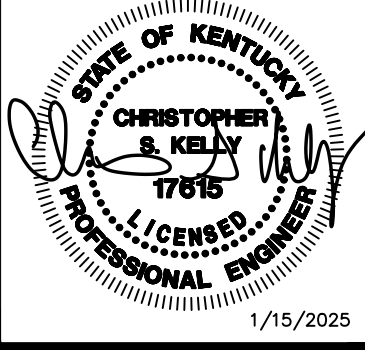
ULTIMATE DESIGN WIND SPEED (V _{ult})	115 MPH
NOMINAL DESIGN WIND SPEED (V _{asd})	89 MPH
RISK CATEGORY	II
WIND EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	+/- 0.18

COMPONENTS AND CLADDING [H<30 FT]

	EXPOSURE B (PSF)	EXPOSURE C (PSF)
ROOF 0 TO 7 DEGREES		
INTERIOR ZONE	9.7 -23.8	13.5 -33.3
END ZONE	9.7 -39.9	13.5 -55.8
CORNER ZONE	9.7 -60.1	13.5 -84.1
ROOF >7 TO 27 DEGREES		
INTERIOR ZONE	13.7 -21.8	19.1 -30.5
END ZONE	13.7 -37.9	19.1 -50.0
CORNER ZONE	13.7 -56.0	19.1 -78.4
ROOF >27 TO 45 DEGREES		
INTERIOR ZONE	21.8 -23.8	30.5 -33.3
END ZONE	21.8 -27.8	30.5 -38.9
CORNER ZONE	21.8 -27.8	30.5 -38.9
WALLS		
INTERIOR ZONE	23.8 -25.8	33.3 -36.1
END ZONE	23.8 -31.9	33.3 -44.6

NOTE: NEGATIVE NUMBERS INDICATE A SUCTION/UPLIFT PRESSURE

880 Sparta Ct. Suite 200
Lexington, KY 40503
POAGE ENGINEERS
& ASSOCIATES
P.O. Box 1000
Fax: (606) 262-1130



HISTORIC STEARNS
DOWNTOWN
REVITALIZATION
STEARNS, KENTUCKY

PROJECT NO.	24141	DESIGNED BY	HMM	DRAWN BY	CSK	CHECKED BY	DATE	01.15.2025	REVIEWED BY	REVISION
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msc

Engineers
Architects
Planners

OF KENTUCKY, INC.

624 Wellington Way
Lexington, KY 40503
www.mslex.com

Phone: (606) 223-5694
Fax: (606) 223-2607

DRAWING NO.

S-0.1

GENERAL NOTES

NOTE TO CONTRACTOR:

The contractor shall coordinate the Structural Drawings with the Architectural, Mechanical, and Electrical Drawings and make certain all pipes, sleeves, ducts, inserts, and openings are located and in place before each concrete pour.

The Contractor shall verify all dimensions shown on the Structural Drawings with dimensions shown on the Architectural Drawings. The Contractor shall check and approve, with reasonable promptness, shop drawings and schedules for coordination of details, sizes, fitting tolerances, and dimensions. The Contractor shall stamp or sign these drawings and schedules with his approval and then submit them to the Architect for review.

SPECIAL INSPECTIONS AND TESTING

A. Special inspections and testing are performed in accordance with IBC Chapter 17 and local jurisdiction provisions, by an independent inspection and testing agency. The special inspector must observe and test the work for conformance to the contract documents.

B. The special inspector must furnish inspection reports to the building official, the engineer or architect of record, and all other designated individuals. All discrepancies must be brought to the attention of the contractor for correction, then, if not corrected, to the proper design authority and the building official.

C. The special inspector must submit a final signed report stating whether the work is, to the best of the inspector's knowledge, in conformance with the contract documents, soils report and applicable workmanship of the building code.

D. Statement and schedule of special inspections is part of the contract documents.

FOUNDATION DESIGN

1. Foundations were designed using an assumed bearing pressure capacity and should be field verified. Maximum earth bearing of 2,000 PSF. This verification shall be performed by Licensed Geotechnical Engineer. Contractor shall review the geotechnical report and adhere to all recommendations within, including cut, subgrade preparation, fill, etc.

2. All soils work, including backfill of utility trenches and the verification of bearing capacity must be under the direction of a qualified geotechnical engineer. Proximity of utility trenches to building foundation system must be as approved by the geotechnical engineer to ensure integrity of the bearing soils.

3. All foundations bear on undisturbed earth or engineered fill at elevations shown on plans and details. Coordinate final top of footing elevations with the architectural elevations, map drawings and civil grading plans prior to placement. Foundation steps indicated are approximate, unless noted otherwise, and must be field coordinated. The bottom of exterior foundation elevations must be below the frost depth elevation of 24" minimum as measured from the exterior finished grade.

4. Bear floor slabs on 6" minimum drainage course (compacted stone) unless noted otherwise in the geotechnical report or drawings. Place the vapor retarder between the drainage course and the slab. Vapor retarder is ASTM E1745, Class B, 15 MIL unless noted otherwise. Place, protect and repair per ASTM E1643 and manufacturer's instructions.

5. Do not install foundation concrete until all foundation work has been coordinated with underground utilities. Notify the engineer of all conflicts between foundations and utilities.

6. all foundations, or portions thereof below grade, may be earth formed by neat excavations. Do not place foundations, slabs, or other concrete on frozen subgrade or in standing water.

7. Center all foundations on walls and/or columns, unless noted otherwise.

8. Determine the extent of construction dewatering required for the excavations. Submit the proposed construction dewatering plan to the geotechnical engineer for review prior to excavation.

9. Shallow rock may be encountered during footing excavation. If so over excavate a minimum depth as recommended in the geotechnical report.

10. Any removal of unsuitable soils shall be performed as described in the geotechnical report.

GRADE SUPPORTED FLOOR SLABS

1. The following features are required as part of grade support slab construction:

A. Keep the crushed stone moist, but not wet, immediately prior to slab concrete placement to minimize curling of the slab due to differential curing conditions between the top and bottom of the slab.

B. The Special Inspector shall review the actual subgrade conditions prior to slab construction and to make recommendations for any unsuitable conditions encountered.

C. Slab subgrade conditions are also considered earthwork areas; thus, the recommendations contained in the Earthwork section of the report apply.

SHALLOW FOUNDATIONS ON SOIL

1. Any soils can lose strength if they become wet, so the foundation sub grades must be protected from exposure to water. Foundation construction the following procedures.

A. For soils that will remain exposed overnight or for an extended period of time, place a "lean" concrete mud-mat over the bearing areas. The concrete should be at least 4 inches thick. Flowable fill concrete or low-strength concrete is suitable for this cover, as conditions allow.

B. Disturbed soil must be removed prior to foundation concrete placement.

C. Foundation bearing conditions must be benched level.

D. Areas loosened by excavation operations must be re-compacted prior to reinforcing steel placement.

E. Loose soil, debris, and excess surface water must be removed from the bearing surface prior to concrete placement.

F. The Special Inspector shall observe all foundation excavations and provide recommendations for treatment of any unsuitable conditions encountered.

G. The bearing conditions of foundation soils (stiff or better residual soil) shall be checked by means of portable dynamic cone penetration (DCP) testing at the direction of the special inspector.

CONCRETE

1. All concrete shall conform and be designed, mixed, placed, tested, and cured in accordance with the provisions of the ACI National of Concrete Practice, (current edition). Special care shall be taken in curing floors, stairs, walls, and other exposed surfaces in accordance with the specifications.

2. All concrete shall develop 3,500 PSI compressive strength in 28 days.

A. W/C ratio, 0.45 for interior slabs and 0.46 for other concrete.

B. Flyash substitution is only permitted in slabs with a 15% max. content. Flyash substitution is NOT permitted in foundations.

C. Concrete structures and slabs exposed to freeze/thaw or subject to hydraulic pressure: air content 3% to 5%.

D. Other concrete, air content 2% to 4%.

E. Slump limits (without a water reducer)

- Ramps & sloping surfaces: no more than 3"
- Reinforced foundations not less than 1" not more than 5"
- Other concrete not less than 1" not more than 5"

3. Dropping the concrete in excess of 10 feet, depositing in a large quantity at any point and running or working it along the forms, or any method tending to cause segregation or separation of the aggregates will not be permitted.

4. Concrete must have allowable unit shrinkage of 0.045% at 28 days (see ASTM C157).

REINFORCEMENT STEEL

1. Reinforcement steel shall have a minimum yield strength of 60,000 PSI and conform with material specifications for reinforcing bars, ASTM A615 thru A617; see manual of standard practice, Concrete Reinforcing Steel Institute.

2. Welded wire fabric shall conform to ASTM A185.

3. All rebars shall be securely tied and held in place with a minimum concrete protection cover to all steel as follows:

Walls, Columns, Beams, & Pilasters 1½"
Slabs ¾"
Footings 3"

4. Reinforcing steel bends shall be made as per diagram & in accordance w/A.C.I. Code.

5. Lap all splices as specifically called for, but at least 38 bar diameters for bars less than or equal to #6, and 48 bar diameters, for bars greater than #6, (always 12" minimum) U.N.O. Lap all splices in masonry reinforcement a minimum of 48 bar diameters.

6. Install corner bars at all footings and wall intersections to match horizontal reinforcing size and spacing, at intersections of continuous spread footings, extend all bars to far side of intersecting footing.

7. Install and secure reinforcement to prevent displacement during concrete placement. Provide the following concrete cover for reinforcing, unless specifically noted otherwise:

a. Cast against earth: 3"

b. Exposed to earth/weather: #6 thru #18: 2"

c. Exposed to earth/weather: #5 & smaller: 1½"

8. Install dowels to match reinforcement size and spacing indicated, unless noted otherwise.

9. Cast foundation walls, grade beams and footings in alternate panels not to exceed 60'–0" in length. Install shear keys at each construction joint and located at 1/3 points of spans.

10. Do not use horizontal construction joints in concrete pours unless shown on the drawings. The engineer must approve all deviations or additional joints in writing.

11. Cast slabs and beams/joists monolithically unless noted otherwise.

12. Reference architectural and mechanical drawings for locations of openings and sleeves in concrete walls and supported floors. Spread reinforcement at openings and sleeves unless otherwise indicated. Do not cut reinforcement.

13. Slope all concrete slabs to floor drains shown on mechanical, plumbing, civil and architectural drawings.

14. Bond new concrete to hardened concrete with a structural adhesive bonding agent per ASTM C1059. Install per the manufacturer's instructions.

15. No holes or openings through foundation walls and/or footings without engineer's approval.

16. Do not embed aluminum in concrete.

CONCRETE MASONRY

1. CMU Minimum Compressive Strength, f'm = 1,500 psi.

2. Mortar: Walls below grade: Type M
Bearing Walls: Type M or S

3. Coarse Grout: 3,000 psi. min. compressive strength conforming to ASTM C476.

3.1 Grout solid bond beams, reinforced CMU cores, and CMU cores and wall cavities below grade.

3.2 Masonry webs on each side of grouted cells shall be fully mortared.

4. Horizontal Joint Reinforcement: Two (2) No. 9 gage longitudinal wires at 16" vertically, U.N.O. Provide accessories for corners, intersections, etc.

5. Provide open bottom beam block units with 3" deep minimum web openings at horizontal reinforcement locations. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.

6. CMU has been designed assuming "running bond" placement. Do no use "stack bond" unless approved by Structural Engineer.

7. Submit written construction procedures prior to the start of masonry construction.

8. No chases, risers, conduits, or toothing of masonry shall occur in masonry walls within 18 inches of beam bearing centerline.

9. Lap splices in reinforcing to be 48 bar diameters.

10. In addition to spacing indicated on plans, provide vertical bars at all corners, ends, jambs, intersections and both sides of control joints.

11. Extend all vertical reinforcement thru or into bond beams.

12. Provide dowels from supporting member (footing, beam, or slab) for all reinforced walls same size, location and spacing as wall reinforcing.

13. Vertical reinforcement shall be centered in cells of masonry unit, unless otherwise noted.

14. Bar positioners shall be used to hold vertical and bond beam reinforcement in proper alignment.

15. Vertical bars shall be held in position at top and bottom and at intervals not exceeding 200 bars diameters or 8 feet.

16. Grouting of masonry lintels over openings shall be accomplished in one continuous operation.

17. Grouting shall be stopped 1½" below the top of a course to form a key at the pour joint.

18. Grout all cells of concrete masonry units below grade or slab.

19. Provide clean out holes at least 3 inches in least dimension for grout pours over 5 feet in height.

A. At structurally reinforced walls provide clean out holes at each structural vertical reinforcing bar.

B. Clean out closures shall be braced to resist grout pressures

20. See architectural drawings for locations of vertical control joints.

21. At vertical control joints, bond beam reinforcement and joint reinforcement shall be discontinuous. Provide two ¾" dia. smooth dowels by 1'–4" across each control joint. Grease one end.

22. Special inspections are required for the masonry construction on this project. The inspections include but are not limited to continuous inspections during the grouting process. Refer to Chapter 17 of the Kentucky Building Code, current edition, for specific requirements.

STRUCTURAL STEEL

1. Steel Shapes

1.1 W-Shapes: ASTM A992 (Grade 50)

1.2 Angles, Channels, Plates, UNO: ASTM A36

1.3 Square/Rectangular/Round Hollow Structural Sections (HSS): ASTM A500, Grade B

1.4 Structural steel exposed to weather shall be galvanized.

2. Anchor Rods, Bolts, and Studs

2.1 Anchor Rods: ASTM F1554, Grade 36, Headed Rods or threaded rods with plate washer and heavy hex nut.

2.2 All bolts for structural steel joint fasteners shall be ¾" dia. high strength structural bolts, ASTM A325, Torque Control (Tension Set), unless otherwise noted.

3. Post-Installed Anchors: The procedure listed below are the design basis for this project. Installation of expansion anchors shall be in accordance with the ICC ES report and manufacturer's instructions for the particular anchor.

3.1 Expansion Anchors: Hilti Kwik Bolt T22 (ICC–ES ESR–4266), Simpson Strong–Tie Bolt 2 (ICC–ES ESR–3037), or Dewart Power–Stud+ SD2 (ICC–ES ESR–2502). Minimum embedment = 6 times anchor diameter, UNO.

3.2 Adhesive Anchors

3.2.1 All–thread steel anchor conforming to ASTM A307 Grade A or ASTM A36 or ASTM F1554 Grade A36, zinc plated in accordance with ASTM B633.

3.2.2 Adhesive conforming to Hilti HIT–RE–500 V3 (ICC–ES ESR–3814) or Hilti HIT–HY200 V3 (ICC–ES ESR–4868 (conc.) ESR–4878 (grouted cmu), Simpson SET–3G Epoxy (ICC–ES ESR–4057 (conc. & ice) ESR–4844 (grouted cmu), or Dewart 110+ Epoxy Adhesive (ICC–ES ESR–3298), or Dewart AC100+ Gold Adhesive (ICC–ES ESR–2582 (conc.). Minimum embedment = 6 times anchor diameter, UNO.

3.2.3 For hollow concrete masonry, use screen tube approved by manufacturer and an adhesive conforming to Hilti HY–270 (ICC–ES ESR–4143) or Simpson Strong–Tie SET–3G (ICC–ES ESR–4844).

3.3 Screw Anchors: Hilti KH–EZ (ICC–ES ESR–3027 (conc.) ESR–3056 (grouted cmu) or Simpson Titan–HD (ICC–ES ESR–2713 (conc.) ICC–ES ESR–1056 (grouted cmu) or Dewart Screw–Bolt+ (ICC–ES ESR–3889 (conc.) ICC–ES ESR–4042 (grouted cmu). Minimum Embedment = 6 times anchor diameter, UNO.

3.4 Substitutions will only be considered for products that have a code report recognizing the product for the appropriate application. The substitution request shall be accompanied by calculations that demonstrate the substituted product is capable of achieving the equivalent performance values of the design–basis product.

4. Structural steel shall be fabricated and erected according to the "Specification for Structural Steel Buildings" dated July 7, 2016 and the AISC "Code of Standard Practice for Steel Buildings and Bridges" dated June 15, 2016.

5. Connections shall be detailed based on the design information provided in the Structural Documents.

5.1 Standard Shear Connections: Details as bolted or welded double–angle, side–plate, single–angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction", Thirteenth Edition.

5.1.1 Shear connections not defined in the AISC Manual shall be designed by an Engineer licensed in the project state. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by the Engineer.

5.2 Factored Design Forces/Reactions: As shown on the Structural Documents or, if not shown, the factored design reaction shall be half of the "Maximum Total Uniform Load (LRFD)" tabulated in the "Manual of Steel Construction", Thirteenth Edition.

5.3 Steel connections not specifically detailed in the Structural Drawings shall be designed by the Contractor. This design service shall be included in the Contractor's scope of services. Shop drawings of such connections shall be sealed by an Engineer licensed in the project state.

6. Shop Drawings: Submittal shall adequately depict all structural members and connections. Bolted connections shall connect a minimum of one–half (1/2) the depth of the member. Welded connections shall use continuous 1/4" fillet welds unless noted otherwise in contract documents. Show all field welds required on erection drawings.

7. All structural steel shall be fabricated & erected in accordance with latest OSHA regulations regarding steel erection.

8. Hot rolled steel bars, plates, shapes and sheet piling must be new steel conforming to ASTM A6. Fabricate and install steel in accordance with AISC 303 "Code of Standard Practice for Steel Buildings and Bridges" and AISC 360 "Specification for Structural Steel Buildings".

9. Center columns and beams on grid lines unless noted otherwise in the contract documents.

10. Cuts indicated on the drawings, or as required for other trades, must be made in the shop and shown on the shop drawings. Field performed holes or cuts are not permitted without engineer approval.

11. Install non–metallic shrinkage–resistant grout below base plates, in accordance with ASTM C1107 and a minimum strength of 6,000 PSI.

12. Fabricate structural steel with one coat of shop primer except the following members: galvanized surfaces, slip–critical surfaces, surfaces to be field welded, surfaces to receive fire proofing, or as noted otherwise. Coordinate areas to be fireproofed w/architectural dwgs prior to fabrication.

13. Galvanized structural steel: ASTM A123 or ASTM A153. Galvanize after fabrication. Galvanize all exterior exposed steel, unless noted otherwise. Repair damaged galvanized coatings in accordance with ASTM A780.

14. Unless noted otherwise, the top of all steel columns are fabricated with a steel cap plate. Minimum cap plate dimensions match column width & depth, and minimum thickness of cap plate equals column web thickness (½" min).

15. Coordinate the exact location & size of all openings for mech equipment with mech contractor prior to fabrication.

16. Reference the architectural, civil, mechanical, plumbing and electrical dwgs for additional steel (if any) not indicated on the structural dwgs.

WOOD SHEATHING

1. GENERAL

a. Wood sheathing refers to wood structural panels, of either plywood or oriented strand board (OSB).

b. Wood sheathing is APA–Rated sheathing, complying with product standard DOC PS1 or DOC PS2. Wood sheathing manufacturer must be a member of the American Plywood Association (APA).

c. Protect wood sheathing from weather & provide for air circulation around stacks & under coverings.

d. Panels must have factory marks indicating compliance with applicable standards.

e. Thickness not less than indicated & as required to comply with specified requirements.

f. Install sheathing with the strength direction (typically long dimension) perpendicular to framing & with end joints staggered.

g. Do not use materials with defects impairing the quality of sheathing or pieces too small to use with minimum number of joints. layout panels to span between at least three support members.

h. Coordinate sheathing installation with flashing & joint sealant installation so materials are installed in a sequence & manner preventing exterior moisture from passing through the completed assembly.

i. Do not bridge building expansion joints.

j. Where either 2" or 2½" fastener spacings are specified for 2" or less framing members, the framing member at adjoining panel edges must be 2½" wide or greater. Stagger fasteners at panel edges in two lines.

2. WALL SHEATHING

a. Span rating: not less than 32/16

b. Nominal thickness: not less than 1/2"

c. Exposure & durability classification: Exposure 1

d. Fastening method, unless noted otherwise:

- Fasteners: 10d ring shank nails,
- Boundary edge spacing: 4" O.C.
- Exposure & durability classification: 4" O.C.
- Field spacing: 12" O.C.
- Reference shear wall details for shear wall sheathing fastening, blocking & other details.

3. ROOF SHEATHING

a. Span rating: not less than 40/20

b. Nominal thickness: not less than 5/8"

c. Exposure & durability classification: Exposure 1

d. Fastening method, unless noted otherwise:

- Fasteners: 8d ring shank nails,
- Boundary edge spacing: 4" O.C.
- Panel edge spacing: 6" O.C.
- Field spacing: 12" O.C.
- U.N.O. install blocking at all sheathing edges & fasten sheathing edges to blocking according to panel edge spacing.

4. FASTENERS

a. Minimum, fastening to comply with "fastening schedule" of referenced building code and the ICC–ES evaluation report for fasteners.

b. Use steel common nails into wood framing & screws into cold–formed metal framing, U.N.O.

c. Nails, brads, and staples: ASTM F1667.

d. Screws for fastening sheathing to wood framing: ASTM C1002.

e. Screws for fastening sheathing to cold–formed metal framing: ASTM C954, except with wafer heads (min head diameter=0.333") and reamer wings, length as recommended by screw manufacturer.

f. For roof, parapet, & wall sheathing, use fasteners with hot–dip zinc coating complying with ASTM A153 or Type 304 stainless steel.

g. For roof, parapet, & wall sheathing with organic–polymer or other corrosion–protection coatings, use fasteners with a salt–spray resistance of more than 800 hours according to ASTM B117.

WOOD FRAMING

1. Structural framing plans depict the primary structural framing system. Contractor shall provide secondary & miscellaneous framing as required to complete the project (see architectural dwgs).

2. Dressed Seasoned Lumber: S4S, 19% maximum moisture content at the time of dressing.

2.1. Interior and Exterior Load bearing Walls: Spruce–Pine–Fir, No. 2 grade

2.2. Lintels, Floor Joists and Beams: Southern Pine, No. 2 grade

2.3. Wood in Contact with Concrete or Masonry or Exposed to Weather: Foundation grade pressure treated. Use galvanized nails in pressure treated wood.

3. ENGINEERED LUMBER PRODUCTS

3.1. Laminated Vener Lumber (LVL):

Allowable Bending Stress	Fb = 2,600 psi
Compression Perpendicular to Grain	Fcper = 750 psi
Compression Parallel to Grain	Fcpar = 2,310 psi
Horizontal Shear	Fv = 285 psi
Modulus of Elasticity	E = 1,900,000 psi

4. STRUCTURAL PANELS

4.1. Floor Panels: Tongue & groove APA rated Sturd–I–Floor.

a. Panels shall have a Span Rating of 24 & Exposure 1.

b. Panels shall be placed with the "Strength Axis" perpendicular to the supports. End joints shall be staggered.

c. Floor panels shall be nailed with 10d ring or screw–shank nails.

d. Panels shall be nailed with 10d ring or screw–shank nails. Nailing shall be completed before glue sets.

e. Panels shall have glue applied at supports, end joints and tongue & groove joints. Adhesive shall conform to APA Specification AFG–01 or ASTM D3498, & applied in accordance with the adhesive use only solvent–based glues in accordance with panel manufacturer's recommendation.

4.2 Wall Panels: APA rated sheathing

a. Panels may be installed either horizontally or vertically.

b. Panels shall be a minimum of 24" wide.

c. There shall be a ⅛" gap at panel edges and ends.

4.3 Roof Panels: APA rated sheathing, Plywood or OSB

a. Panels shall have a Span Rating of 24 and Exposure 1.

b. Panels shall be placed with the long direction perpendicular to the supports & shall be a minimum of 24" wide & continuous over at least 2 supports.

c. Roof panels shall be both glued (exterior glue) & nailed.

d. Long panel edges shall be supported with Edge Clips; one located midway between each support. There shall be an ⅛" gap at panel edges and ends.

e. OSB panels shall be installed with textured side up.

5. WOOD SHEAR WALLS

5.1 Shear walls shall be constructed with ⅝" APA Douglas Fir–Larch or Southern Pine structural panels. Panels shall be oriented with the long dimension in the vertical direction. Oriented strand board (OSB) may be used in lieu of plywood. OSB panels shall be APA rated & shall comply with Product Standard PS 2.

5.2 Solid 2x blocking shall be provided at unsupported, horizontal panel edges.

5.3 See shear wall schedule for nailing requirements as called for on dwgs.

5.4 Double 2x framing studs shall be used at ends of each shear wall.

Special inspector shall perform the following:

1. Check all wood framing layout & confirm compliance with plans, specs, & shop dwgs.

2. Visually inspect truss layout & anchorage & confirm compliance with plans, specs, & shop dwgs.

3. Visually inspect all roof & wall sheathing attachments & confirm compliance with plans, specs, & shop dwgs.

ROUGH CARPENTRY

1. GENERAL LUMBER

a. Grading per DOC PS 20 and applicable grading agency rules.

b. Factory mark each piece with grading agency grade stamp.

c. Maximum moisture content: 19%

d. Wood sheathing is APA–Rated sheathing, complying with product standard DOC PS1 or DOC PS2. Wood sheathing manufacturer must be a member of the American Plywood Association (APA).

e. Sort and select lumber so natural characteristics do not interfere with installation or fastening.

f. Pass plumbing and conduit through holes, not notches, in studs, sills and plates. Center holes in the member depth. Use galvanized nail stoppers (16 gauge min.) on both faces of bored members in according with the governing plumbing/electrical code.

2. PRESERVATIVE–TREATED (PT)

a. Preservative treatment process: AWPA U1

b. Category UC2 for interior construction not in contact with ground

c. Category UC3b for exterior construction not in contact with ground

d. Category UC4a for items in contact with ground

e. Chemicals used must be acceptable to authorities having jurisdiction and not contain arsenic, chromium, nor ammonia–cal copper zinc arsenate (ACZA). do not use inorganic boron (SBX) for sill plates.

b. Kiln–dry after treatment to a maximum moisture content of 19 percent.

c. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board.

d. Unless noted otherwise, install pt lumber as follows:

- Exterior locations.
- Wood members in contact with masonry, mortar, grout or concrete
- Wood framing members less than 18" above ground in crawspaces or unexcavated areas.

3. DIMENSIONAL LUMBER

a. Unless noted otherwise: Southern Pine No.2 or better, SPIB

b. Exterior walls: Southern Pine No.2 or better, SPIB; or Spruce Pine Fir, No.1 or better, NLGA

4. FASTENERS

a. Nails, brads, and staples: ASTM F1667

b. Fasteners used in preservative–treated or fire–treated lumber are galvanized to ASTM Standard B695 Class 55, or A153 Class D.

c. Fasteners used in proximity to saltwater spray are manufactured from Type 316 stainless steel or hot dip galvanized.

d. As a minimum, fasten all wood framing to comply with the "fastening schedule" of the referenced building code and the ICC–ES evaluation report for fasteners.

e. Use steel common nails unless noted otherwise.

f. Stagger fasteners to prevent splitting, including parallel to grain splitting.

g. Fasten multi–ply members together using (3) rows of 16d nails at 12" on center, unless noted otherwise.

5. CONNECTORS

a. Install connectors complying with manufacturer's written instructions. Install fasteners through each fastener hole, unless noted otherwise.

b. Connectors indicated are manufactured by Simpson Strong–Tie, Inc. Connectors by other manufacturers may be used if the load capacity is equal to or greater than the connector specified. Use manufacturer's recommended fasteners, unless noted otherwise.

c. Connectors have a minimum corrosion protection of G90 galvanization complying with ASTM A653.

d. Connectors in contact with pressure treated or fire treated lumber are manufactured from SIMPSON ZMAX (G185 galvanized) steel complying with ASTM A653.

e. Connectors in proximity to saltwater spray are manufactured from TYPE 316 stainless steel or hot dip galvanized to ASTM Standard A123 Class C.

6. ERECTION TOLERANCES

a. Framing members covered by finishes such as wallboard, plaster or ceramic tile set in a mortar setting bed, must be within the following limits:

- Layout of walls and partitions: ¼" from the intended position
- Plates and runners: ½" in 8 feet from a straight line
- Studs: ¾" in 8 feet out of plumb, not cumulative
- Face of framing members: ¾" in 8 feet from a true plane

b. Framing members covered by ceramic tile set in dry–set mortar, latex–portland cement mortar or organic adhesive must be within the following limits:

- Layout of walls and partitions: ¼" from the intended position
- Plates and runners: ⅝" in 8 feet from a straight line
- Studs: ⅝" in 8 feet out of plumb, not cumulative
- Face of framing members: ⅝" in 8 feet from a true plane

7. WALL CONSTRUCTION

a. Unless noted otherwise use single bottom plate and double top plates using 2x members with widths equal to the wall studs. Fasten plates to supporting construction. Spice top plates within the center third of the total wall length with a 4 foot minimum lap, unless noted otherwise.

b. Exterior walls: 2x6 studs at 16" O.C. max spacing, unless noted otherwise.

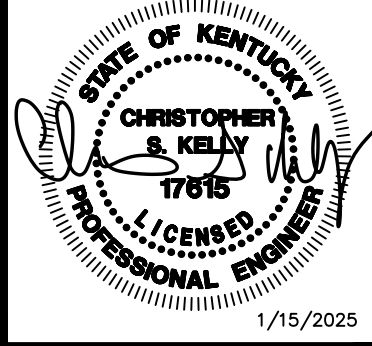
c. Install horizontal blocking at wall mid height. Blocking is 2x members with widths equal to the studs.

d. Construct corners and intersections with three or more studs.

e. Frame wall openings with multiple jambs studs and headers as indicated. Install header members with thickness equal to width of the wall studs.

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Lexington, KY 40503
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POAGE
ENGINEERS
& ASSOCIATES



1/15/2025

HISTORIC STEARNS
DOWNTOWN
REVITALIZATION
STEARNS, KENTUCKY

PROJECT NO.	24141	DATE	REVISION
DESIGNED BY			
DRAWN BY	HMM		
CHECKED BY	CSK		
REVIEWED BY			
DATE	01.15.2025		
DATE			

Engineers
Architects
Planners

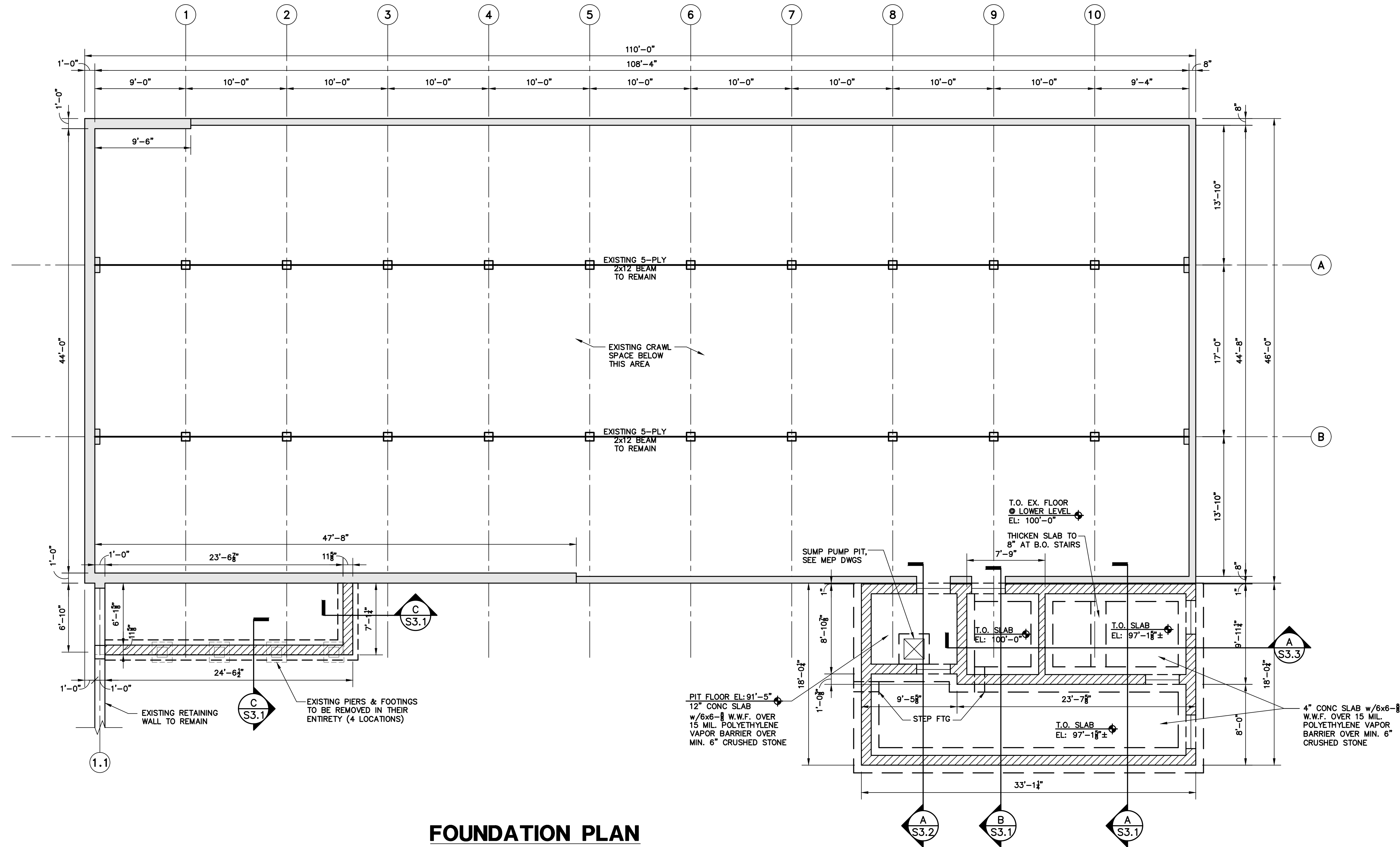
POAGE

OF KENTUCKY, INC.

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Lexington, KY 40503
www.poaalex.com
Fax: (859) 223-2607

DRAWING NO.

S-0.2



FOUNDATION PLAN

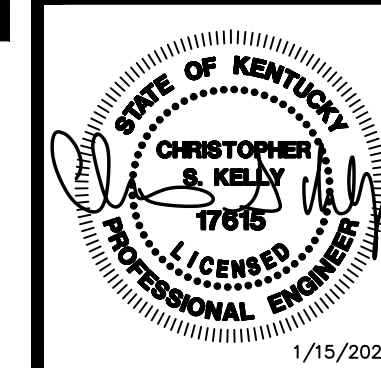
NOTES:

- DATUM ELEVATION 742.0' = 100'-0" ASSUMED.
- CONTRACTOR SHALL COORDINATE FLOOR DRAINS & ELECTRICAL CONDUITS WITH MECHANICAL, ELECTRICAL & PLUMBING DWGS NOT SHOWN ON THE STRUCTURAL DWGS.
- ALL DIMENSIONS SHOWN ARE TO FOUNDATION WALL.
- REFER TO ARCHITECTURAL DWGS FOR LOCATIONS OF ALL INTERIOR NONLOAD-BEARING WALLS NOT LOCATED ON STRUCTURAL DWGS.

ALL FOOTINGS TO BEAR ON FIRM, ORIGINAL UNDISTURBED EARTH. THIS SHALL BE VERIFIED BY SPECIAL INSPECTOR / GEOTECHNICAL ENGINEER.

HISTORIC STEARNS DOWNTOWN REVITALIZATION STEARNS, KENTUCKY

PROJECT NO.	24141	DATE	REVISION
DESIGNED BY	HMM		
DRAWN BY	CSK		
CHECKED BY			
REVIEWED BY			
DATE	01.15.2025		
REVISION			



HISTORIC STEARNS DOWNTOWN REVITALIZATION STEARNS, KENTUCKY

PROJECT NO.	24141	DATE	REVISION
DESIGNED BY			
DRAWN BY	HMM		
CHECKED BY	CSK		
REVIEWED BY			
DATE	01.15.2025		

DESIGN DOCUMENTS

The design professional warrants any and all responsibility and liability for problems which arise from failure to follow these plans, specifications and the design intent they convey.

This document discloses subject matter considered confidential by MSE of Kentucky, Inc. and on which MSE of Kentucky, Inc. has a right to sue for disclosure. The design professional agrees to disclose any information contained herein to any third party only if and to the extent that the design professional is legally obligated to do so.

nsc OF KENTUCKY, INC.

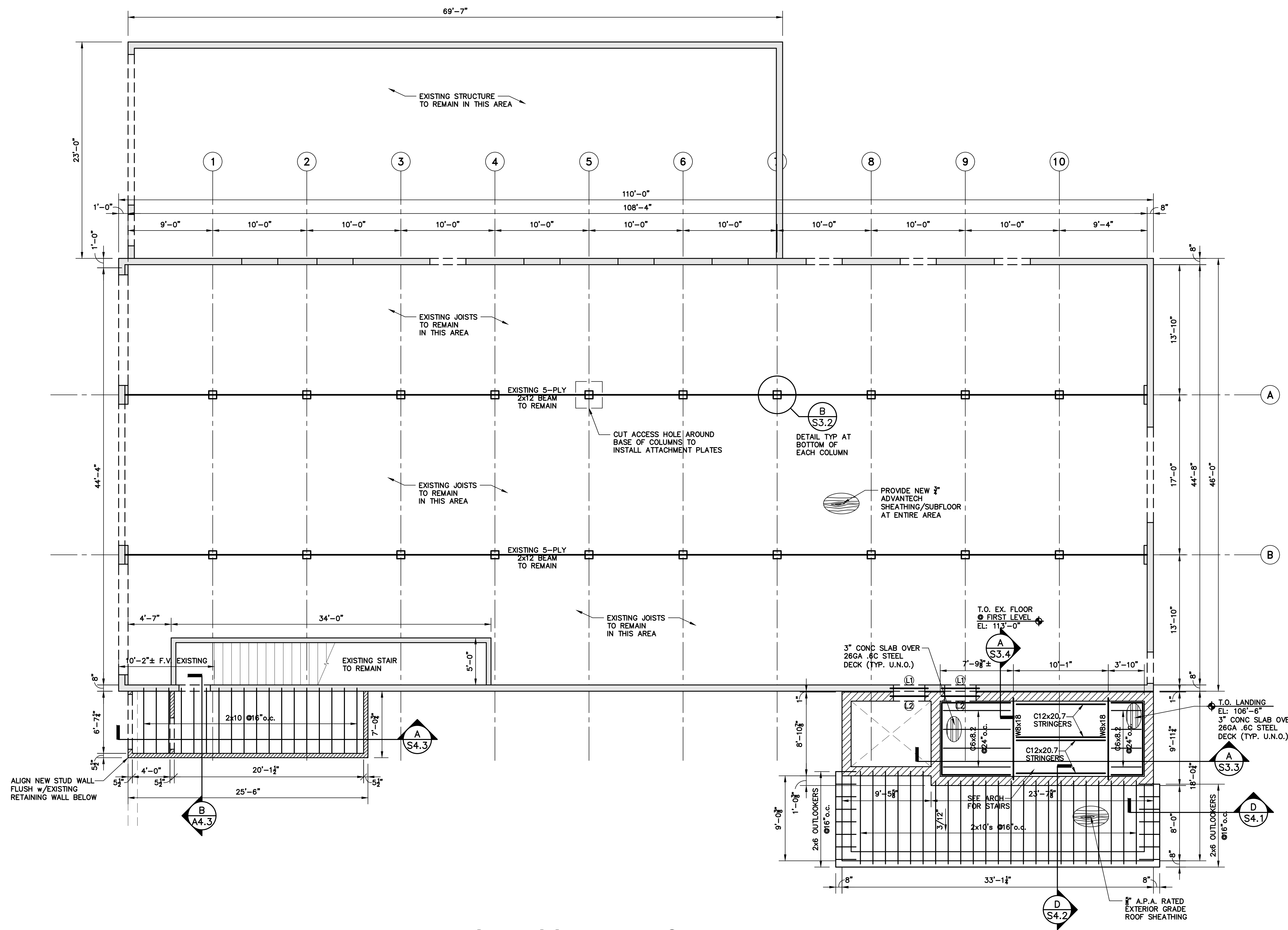
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DRAWING NO.

S-2.1



FIRST FLOOR FRAMING PLAN

KEYED NOTES:

- ① = (2) L3½"x3½"x¼" ANGLE

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DESIGNED BY			
DRAWN BY	HMM		
CHECKED BY			
REVIEWED BY	CSK		
DATE	01/15/2025		
REVISION			

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S-2.2



① = (2) L3½"x3½"x¼" ANGLE
② = 12" CMU BOND BEAM w/(2) #5 BARS

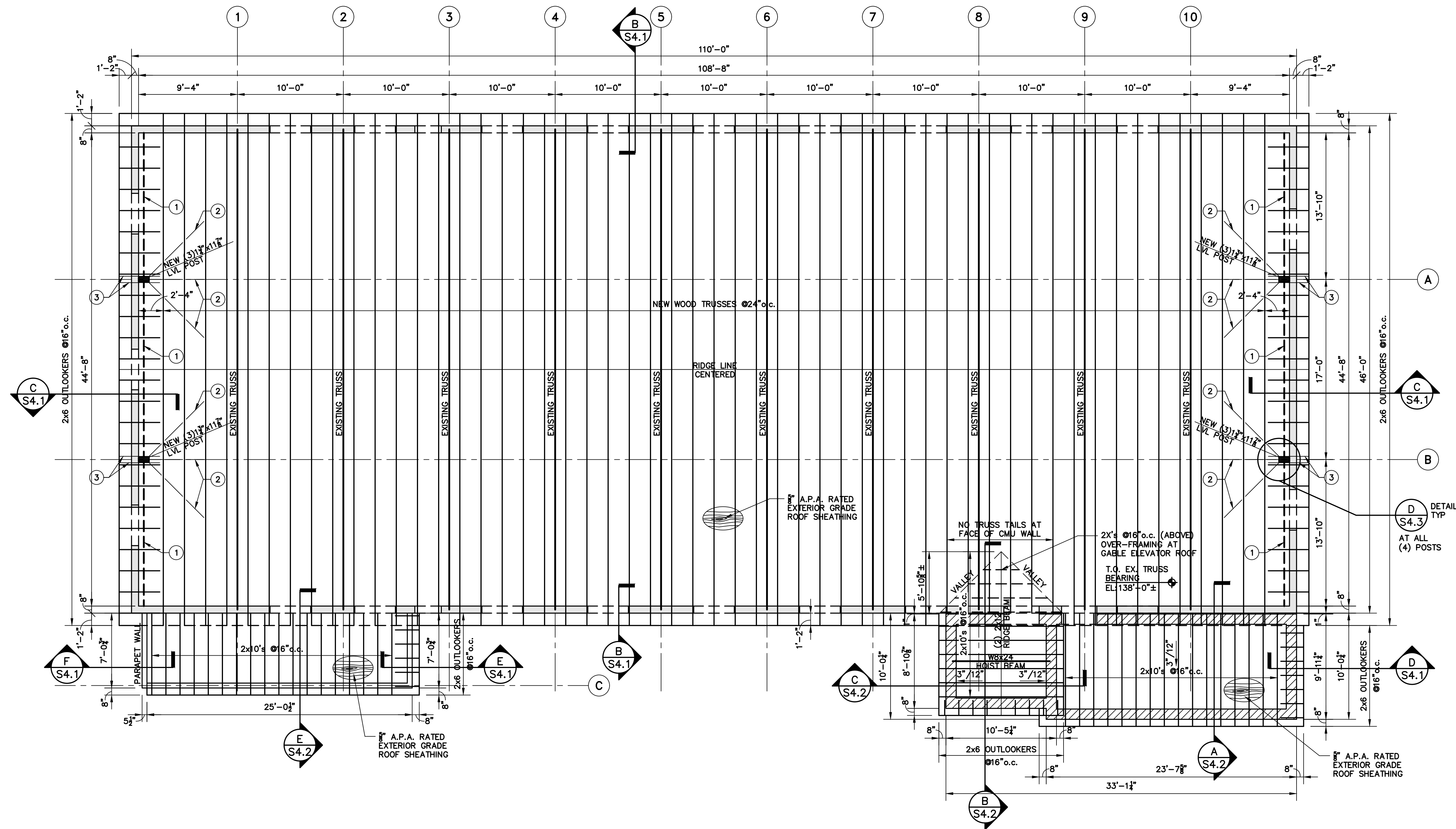
**HISTORIC STEARNS
DOWNTOWN
REVITALIZATION
STEARNS, KENTUCKY**

PROJECT NO.	24141	DATE	REVISION
DESIGNED BY	HMM		
DRAWN BY	CSK		
CHECKED BY			
REVIEWED BY			
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REVISION			

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DRAWING NO.

S-2.3



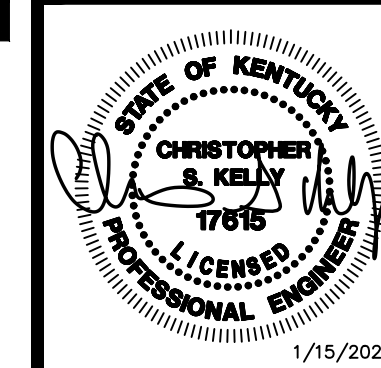
ROOF FRAMING PLAN

NOTES:

ALL ROOF SHEATHING SHALL BE $\frac{1}{2}$ " SQUARE EDGE A.P.A. RATED EXTERIOR GRADE PLYWOOD SHEATHING w/H-CLIPS ATTACHED w/8d NAILS @6" o.c. ALONG ALL EDGES & @12" o.c. (MAX) AT INTERMEDIATE SUPPORTS (TYP U.N.O.)

ALL WALL SHEATHING TO BE $\frac{1}{2}$ " A.P.A. RATED EXTERIOR GRADE SHEATHING ATTACHED PER TYPICAL SHEAR PANEL NAILING DETAIL (TYP U.N.O.)

- ① NEW WOOD BEAM BETWEEN NEW POSTS (3) 2x10's
- ② 2x6 FLAT BLOCKING AT BOTTOM OF DECK (SEE DETAIL D/S4.3)
- ③ 2x6 OUTLOOKER EACH SIDE OF NEW POSTS



HISTORIC STEARNS DOWNTOWN REVITALIZATION STEARNS, KENTUCKY

PROJECT NO.		24141		DATE		REVISION	
DESIGNED BY							
DRAWN BY	HMM						
CHECKED BY	CSK						
REVIEWED BY							
DATE	01.15.2025						

DESIGN DOCUMENTS

The design professional warrants any and all responsibility and liability for problems which arise from errors in drawing these plans, specifications and the design retain they convey.

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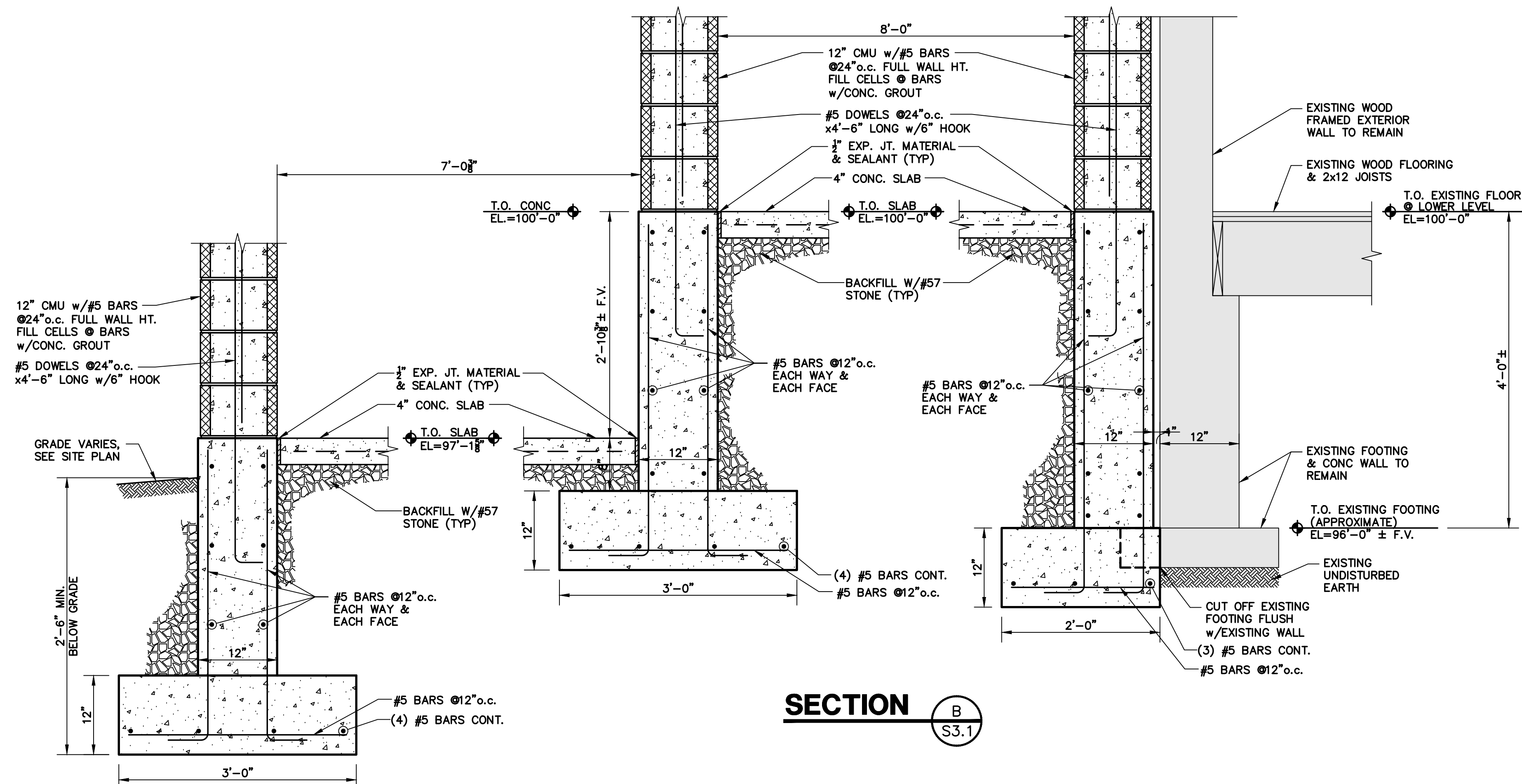
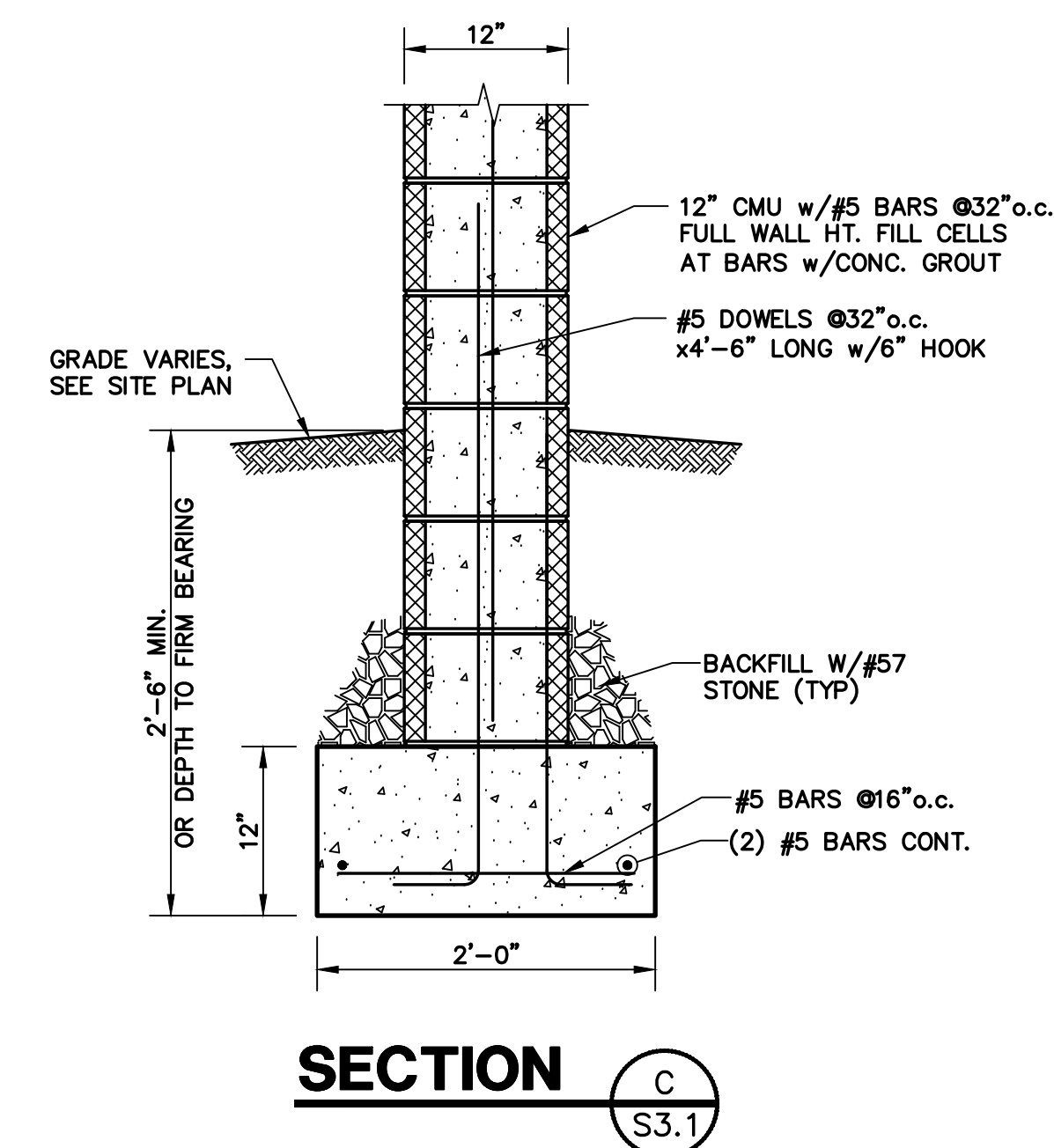
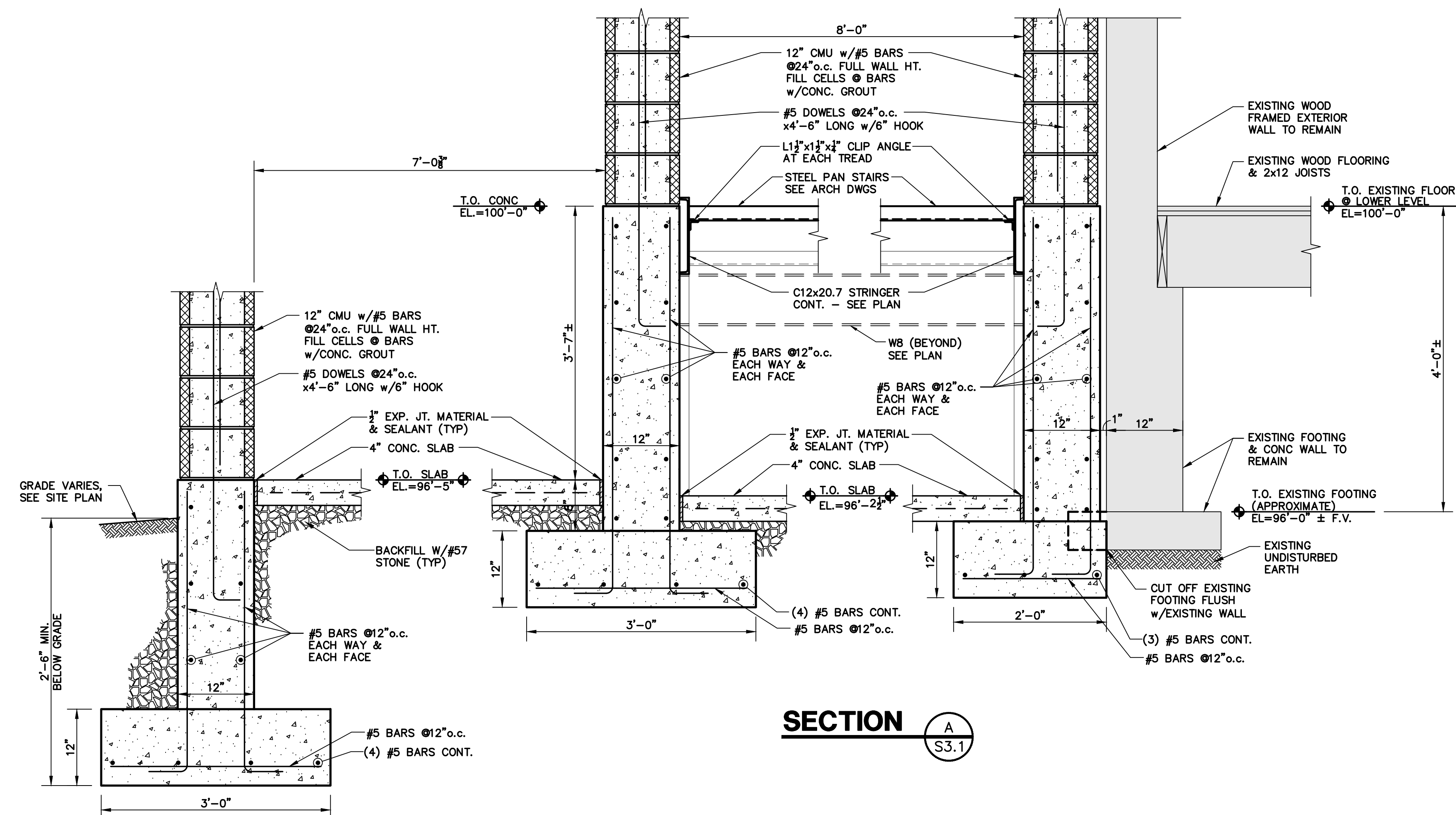
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624 Wellington Way
Lexington, KY 40503

DRAWING NO

S-3.1





**HISTORIC STEARNS
DOWNTOWN
REVITALIZATION
STEARNS, KENTUCKY**

	PROJECT NO.	24141	DATE	REVISION
	DESIGNED BY			
	DRAWN BY	HMM		
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	DATE	01.15.2025		
	REVISION			

DESIGN DOCUMENTS

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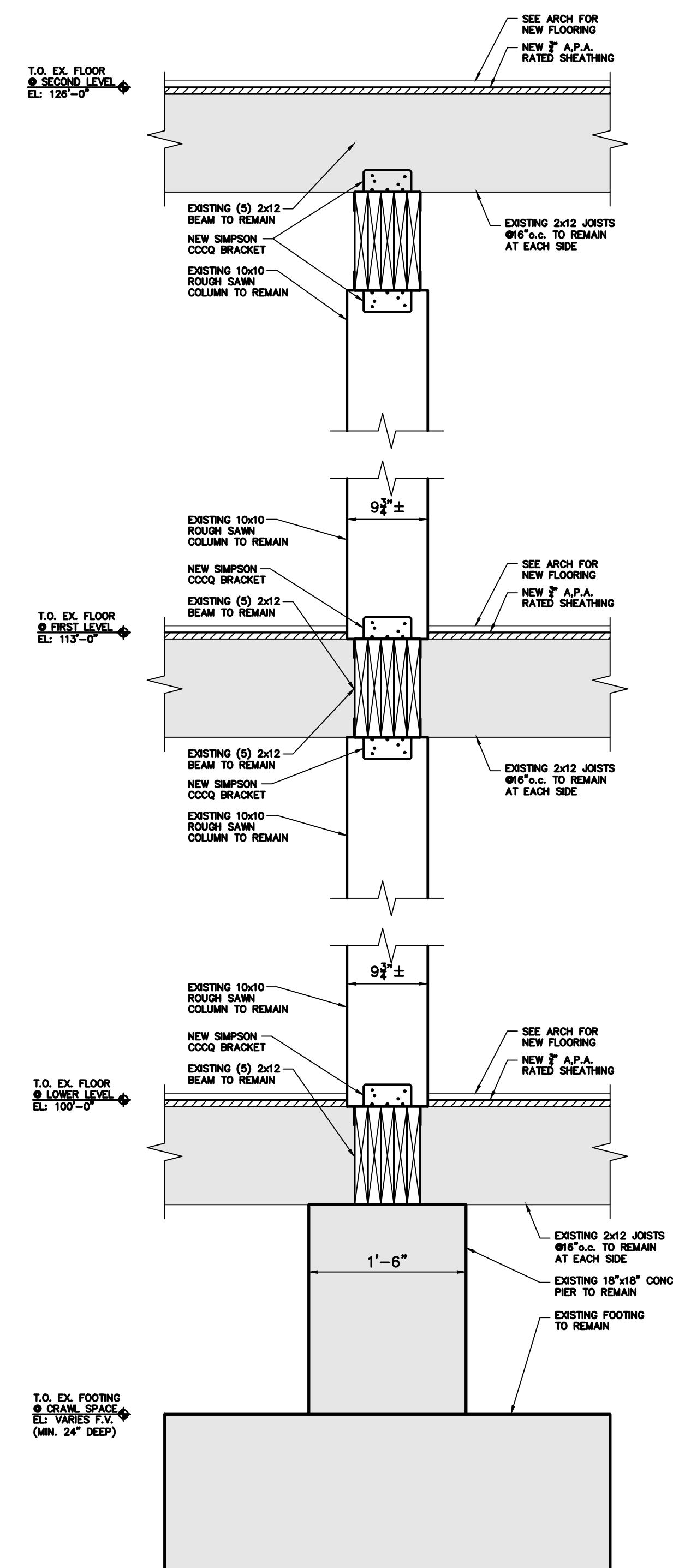
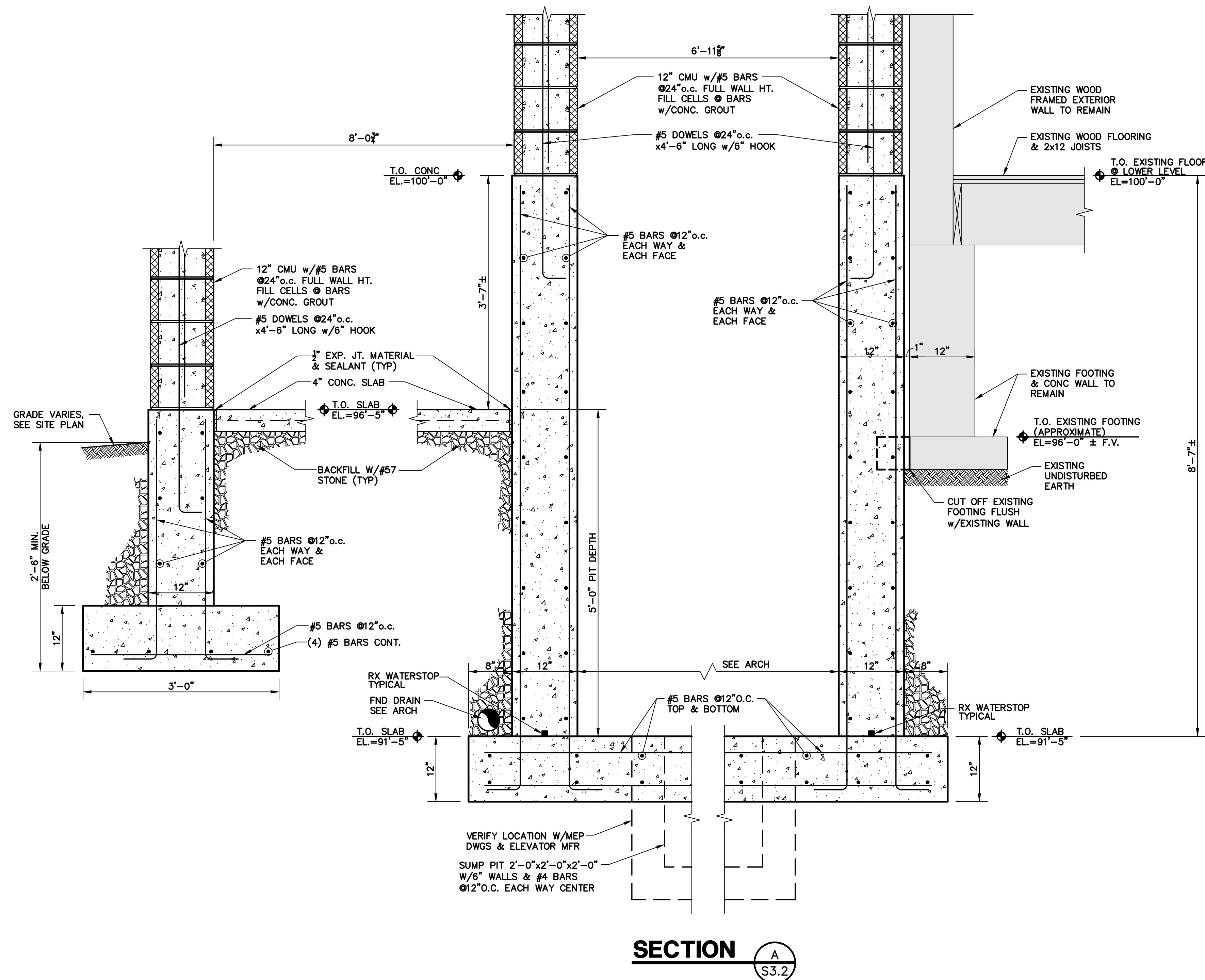
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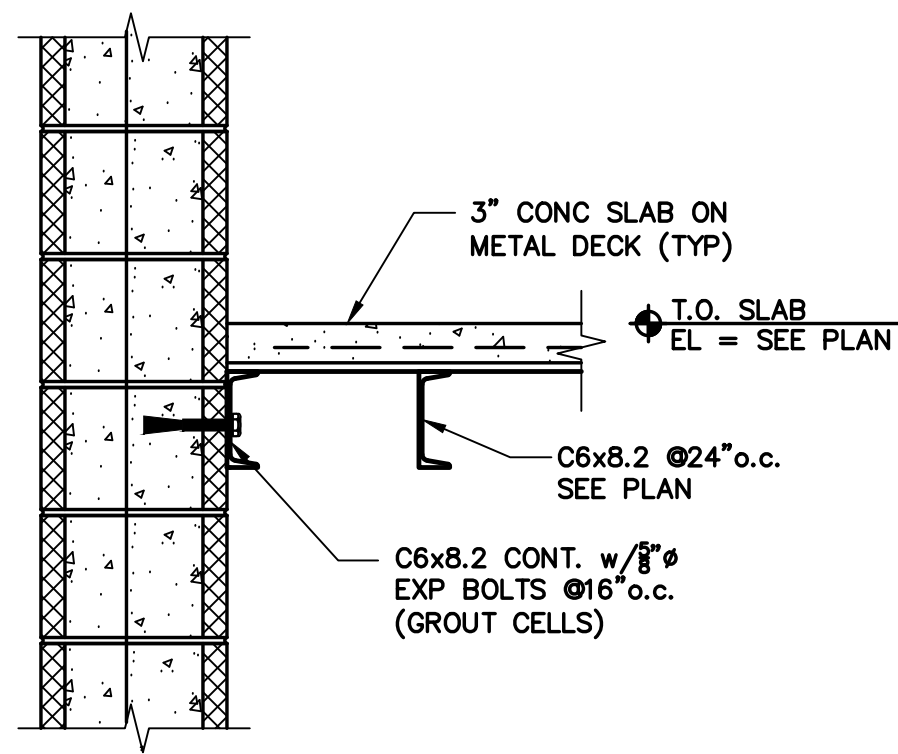
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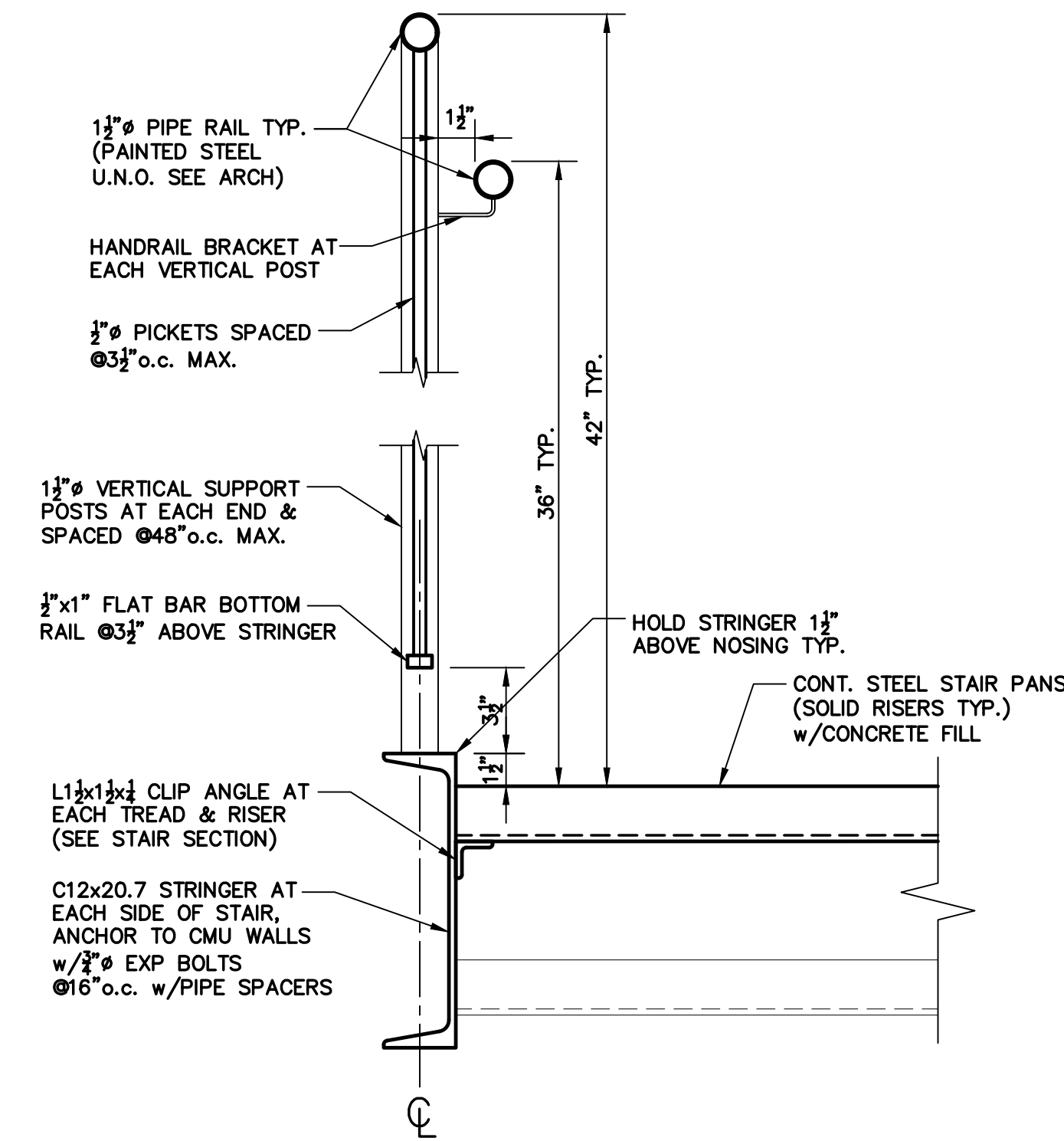
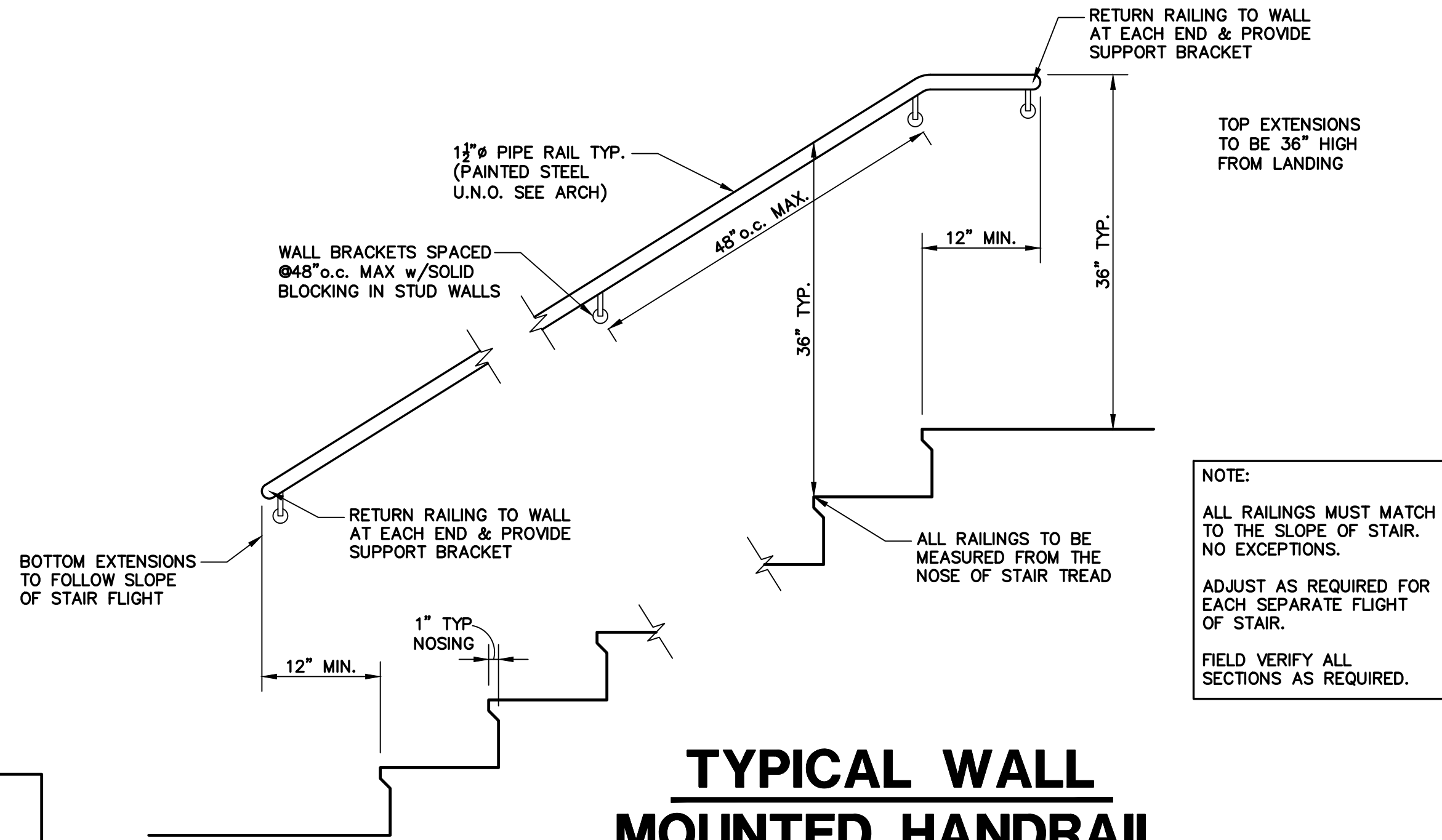
S-3.2



SECTION B
S3.2

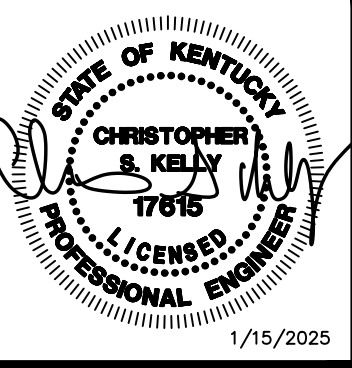
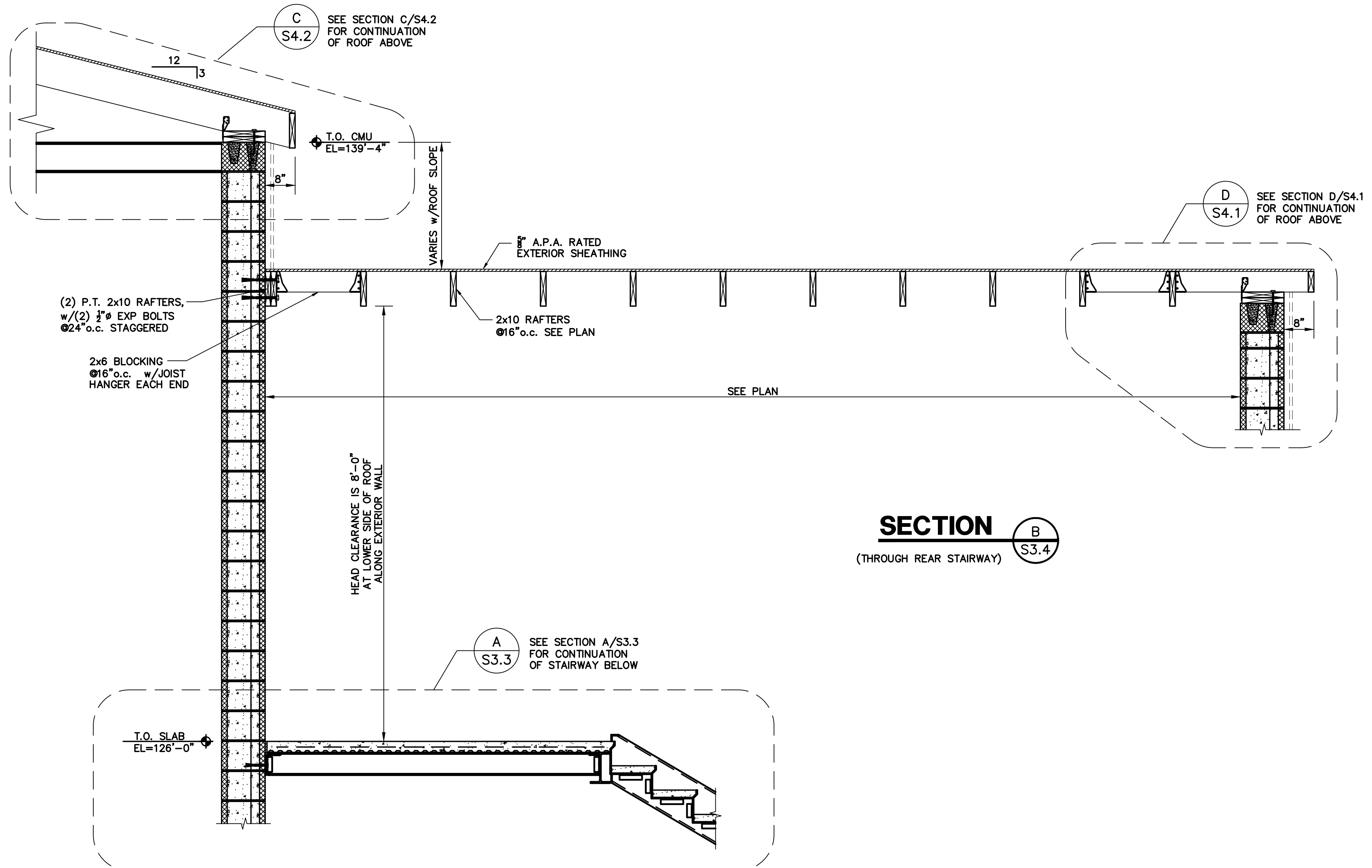


SECTION A
S3.4



GENERAL STAIR & RAILING NOTES:

- ALL STAIRWAYS & RAILINGS ARE TO COMPLY WITH THE 2015 IBC & 2018 KBC CODES — NO EXCEPTIONS FOR EXISTING BUILDINGS AS BOTH STAIRWAYS ARE NEW CONSTRUCTION.
- ALL FIRE RATINGS REQUIRED (CEILINGS, WALLS, DOORS, ETC.) ARE TO BE DETERMINED & SPECIFIED BY THE ARCHITECT OF RECORD. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL FIRE PROTECTION INFORMATION.
- PROVIDE 36" HIGH HANDRAILS AT BOTH SIDES OF EACH STAIR FLIGHT. TOP & BOTTOM EXTENSIONS ARE TO BE PROVIDED WHERE REQUIRED. MINIMUM 12" BEYOND TOP & BOTTOM RISER OF EACH FLIGHT. ALL DISCONTINUOUS RAILING SECTIONS SHALL HAVE END BRACKET SUPPORTS AS REQUIRED.
- PROVIDE 42" HIGH GUARDRAILS AT THE OPEN SIDE EACH STAIR FLIGHT. PROVIDE 1 1/2" SUPPORT POSTS TOP MOUNTED & WELDED TO THE STAIR STRINGERS. SUPPORT POSTS ARE TO BE SPACED AT MAXIMUM 48" o.c. WITH ADDITIONAL POSTS AT EACH END, SPLICE JOINT, TURN IN DIRECTION, AND LANDING TRANSITIONS.
- ALL RAILINGS ARE TO BE MEASURED FROM THE NOSE OF EACH RISER, AND SHALL MATCH TO THE SLOPE OF EACH STAIR FLIGHT SERVED. NO EXCEPTIONS.
- ALL EXPOSED STEEL IS TO BE PAINTED, INCLUDING RAILINGS, PICKETS, SUPPORT PORTS, HANDRAIL BRACKETS, BOTTOM OF THE STAIR PANS, EXPOSED RISERS, CHANNELS, TUBES, ANGLES, STRINGERS, BOTTOM OF LANDING DECKING, ETC. REFER TO ARCHITECT FOR COLORS SELECTION AND PAINT MATERIALS APPROVAL.
- ALL CEILING OR WALL MOUNTED LIGHT FIXTURES, EMERGENCY LIGHTING, EXIT SIGNS, ETC. ARE TO BE EXTERIOR GRADE & MOISTURE RESISTANT TYPE FIXTURES UL RATED FOR EXTERIOR WET LOCATIONS.
- ALL SPRINKLER PIPING & ELECTRICAL CONDUIT WITHIN STAIRWAY ENCLOSURE ARE TO BE RUN IN EXTERIOR GRADE CONDUIT MATERIALS.
- DOORS & FRAMES AT EACH FLOOR LEVEL ARE SPECIFIED BY THE ARCHITECT. ALL DOORS ARE TO SWING IN THE DIRECTION OF EGRESS & HARDWARE SHALL ALLOW FOR KEYLESS EXIT AS REQUIRED.
- ALL FLOOR LANDINGS CONCRETE SLABS SHALL BE FINISHED WITH BROOM NON-SLIP TEXTURE & SEALED w/MIN. (2) COATS SEALER.



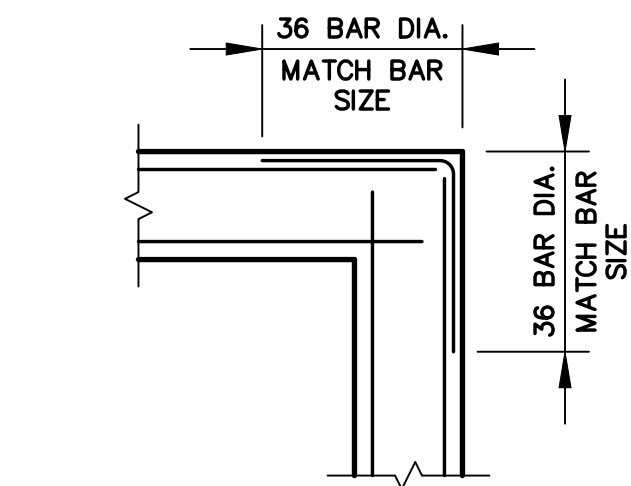
**HISTORIC STEARNS
DOWNTOWN
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STEARNS, KENTUCKY**

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DESIGNED BY	HMM		
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DATE	01.15.2025		
REVISION			

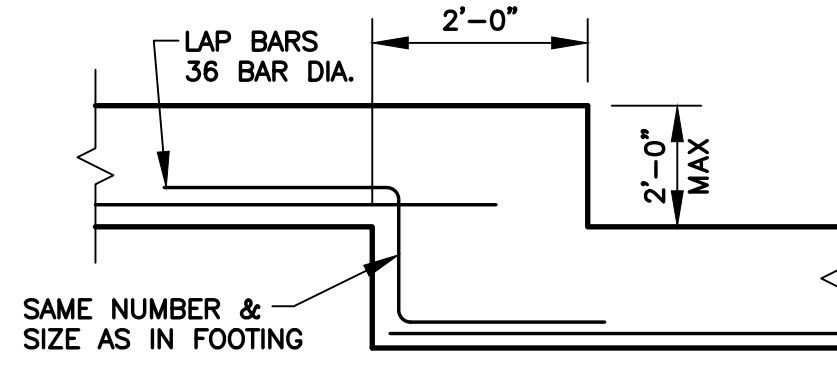
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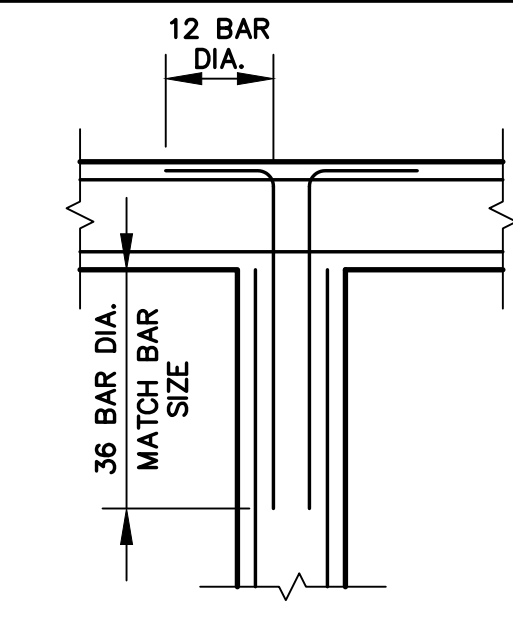
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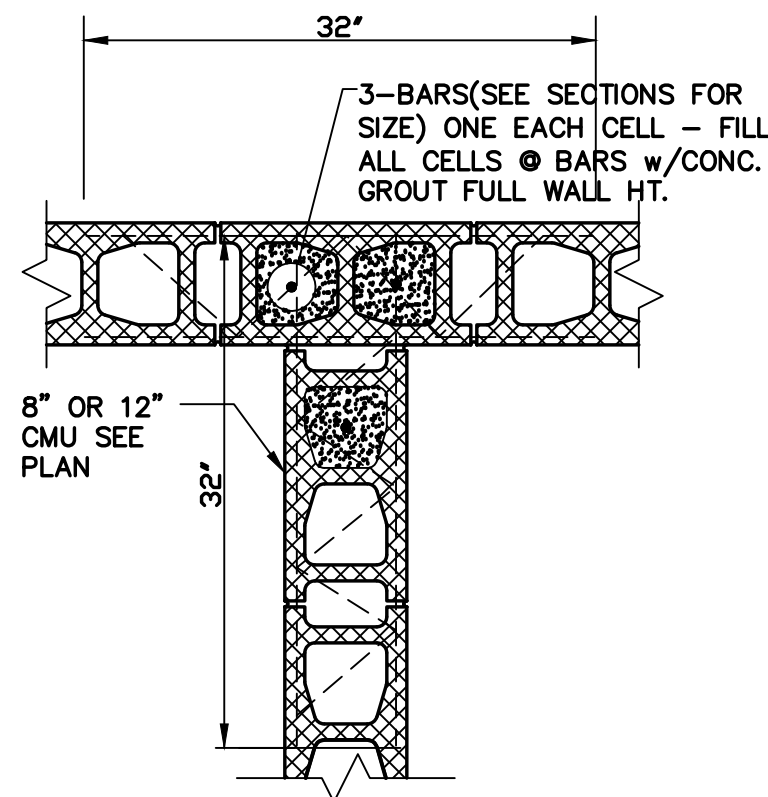
**TYPICAL CORNER
REINFORCING DETAIL**



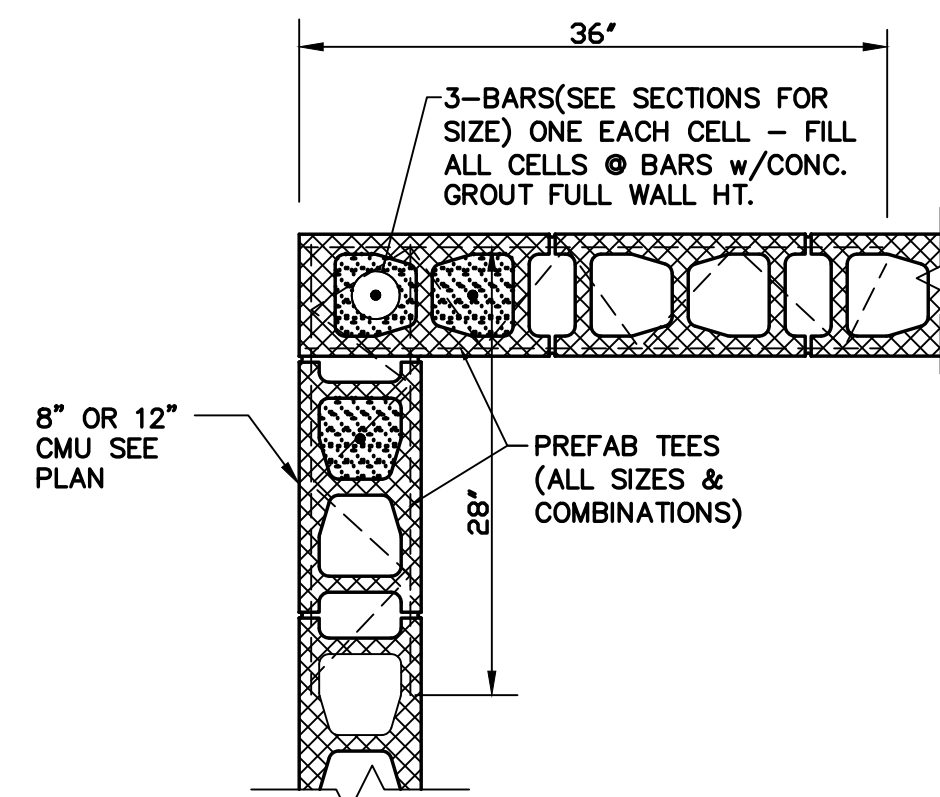
TYPICAL STEP FOOTING



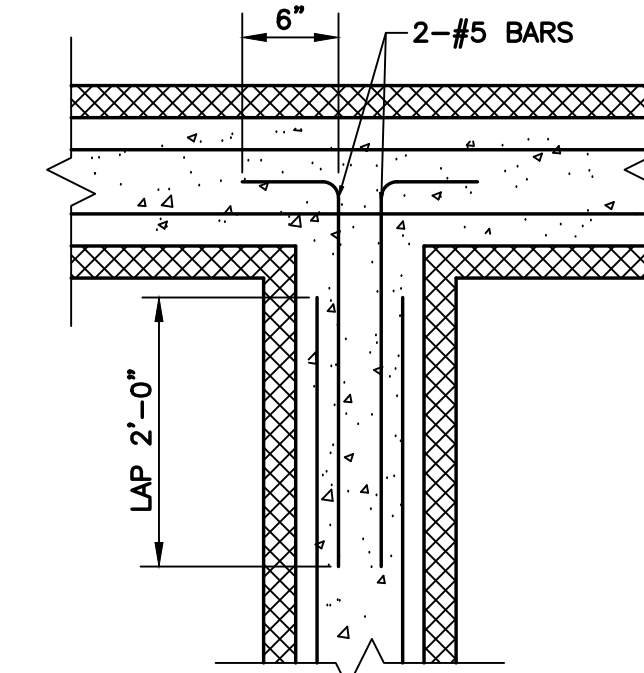
**TYPICAL WALL
INTERSECTION
REINFORCING DETAIL**



**TYPICAL EXTERIOR
MASONRY INTERSECTION
REINFORCEMENT DETAIL**

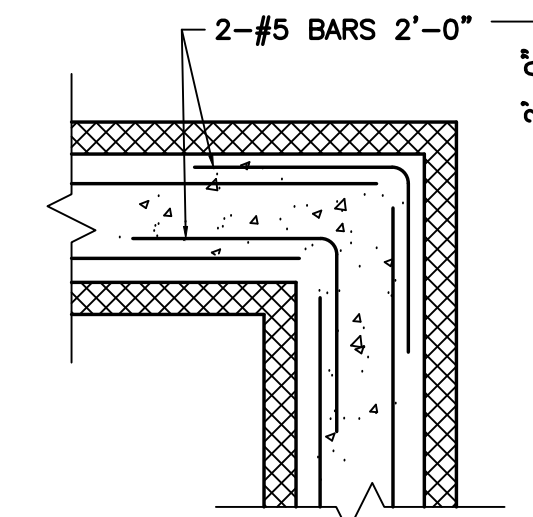


**TYPICAL EXTERIOR
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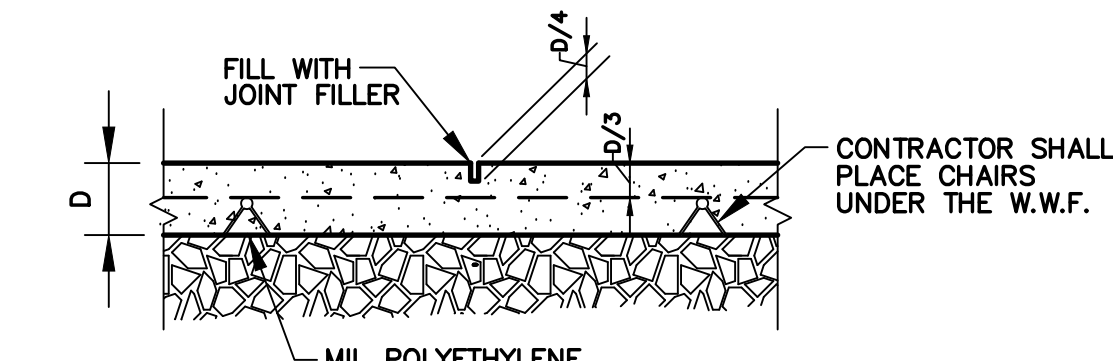


**TYPICAL C.M.U. BOND BEAM
REINFORCEMENT LAP DETAILS**

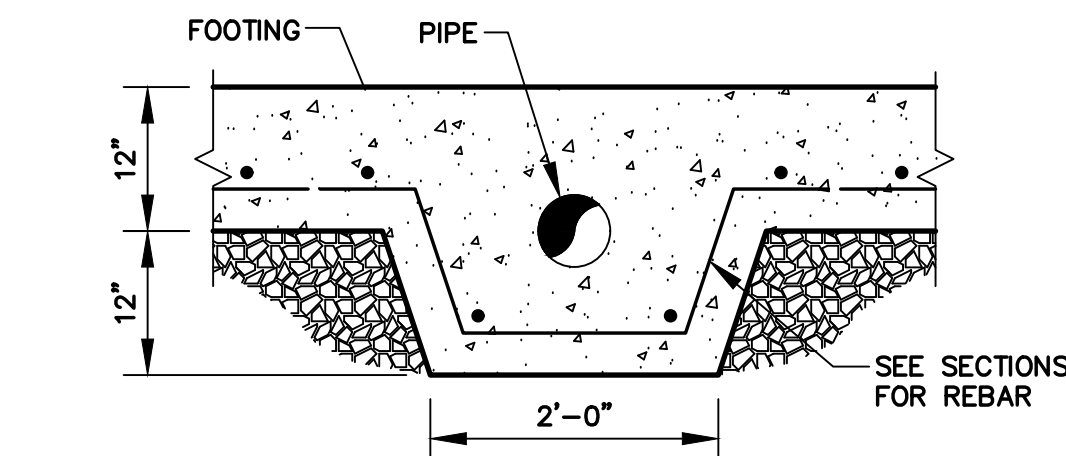
(12" BLOCK SHOWN - FOR 8" BLOCK 1-#5 BAR)



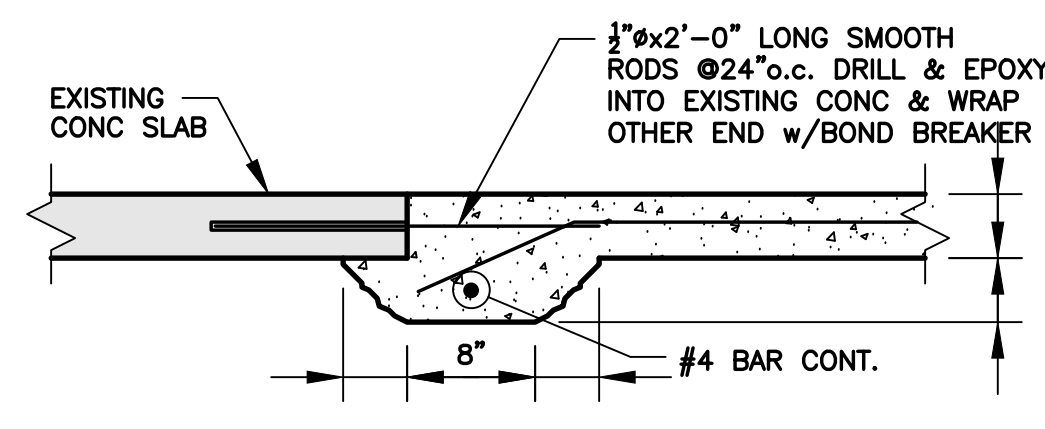
CORNER INTERSECTION



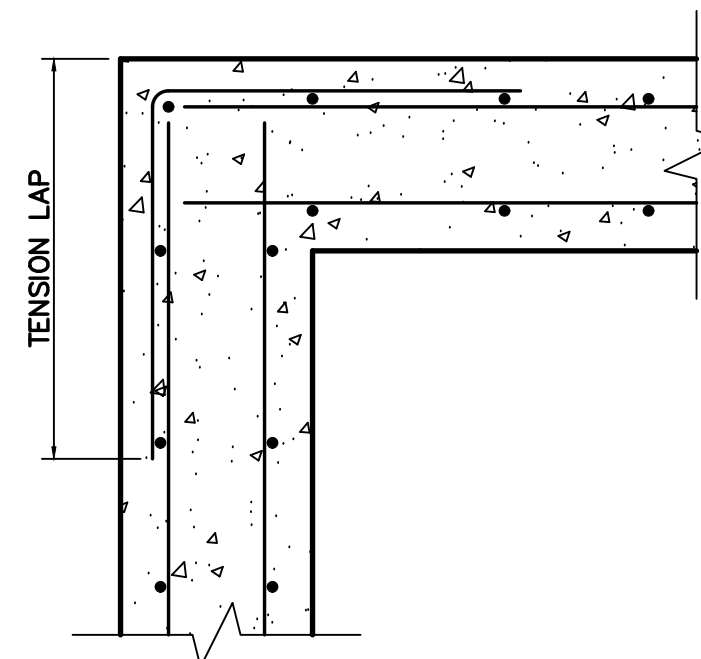
TYPICAL CONTROL JOINT DETAIL



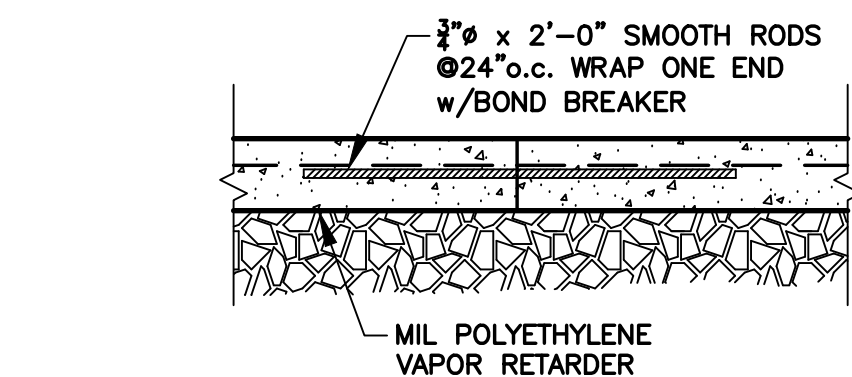
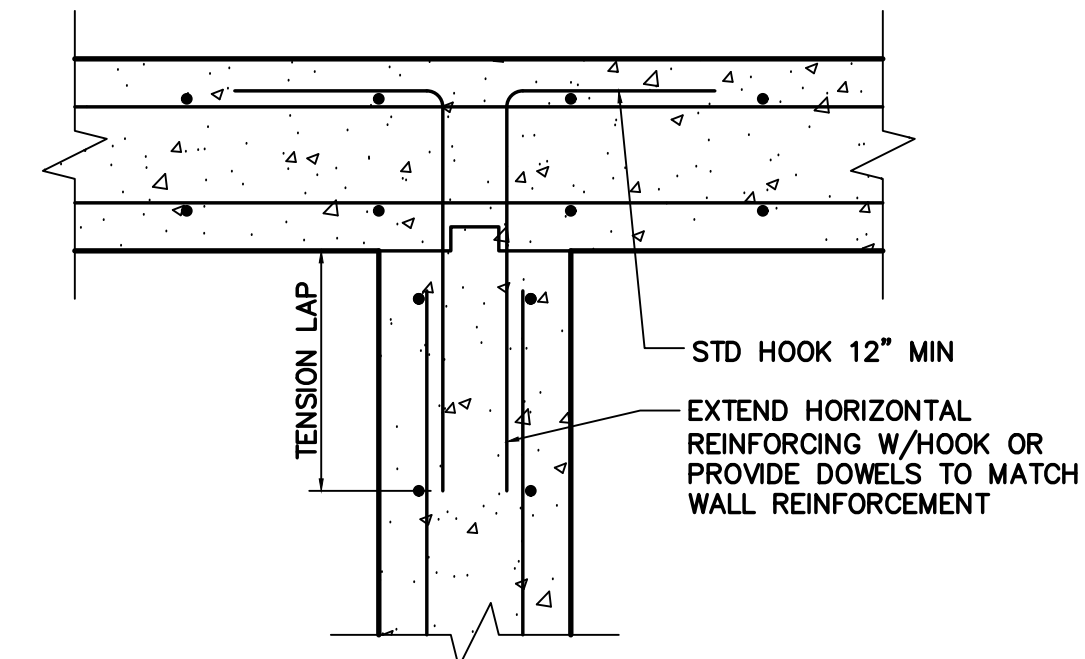
TYPICAL PIPE PERFORATION @ FOOTINGS



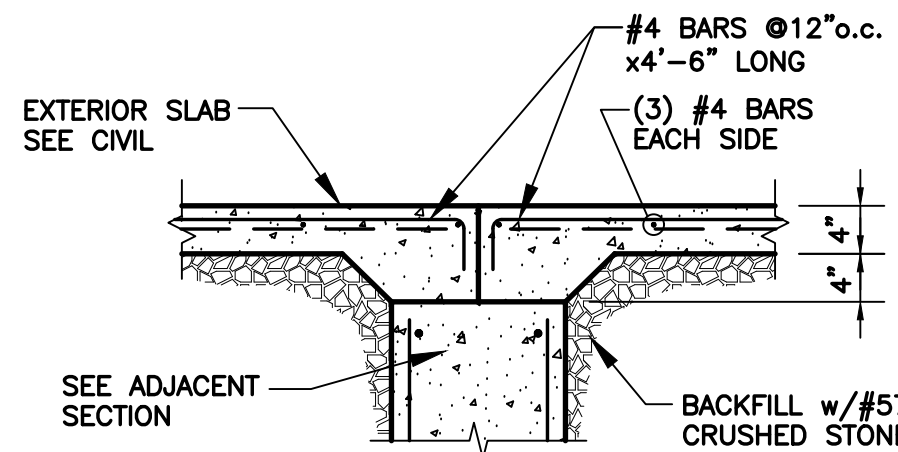
**TYPICAL NEW TO EXISTING
SLAB JOINT DETAIL**



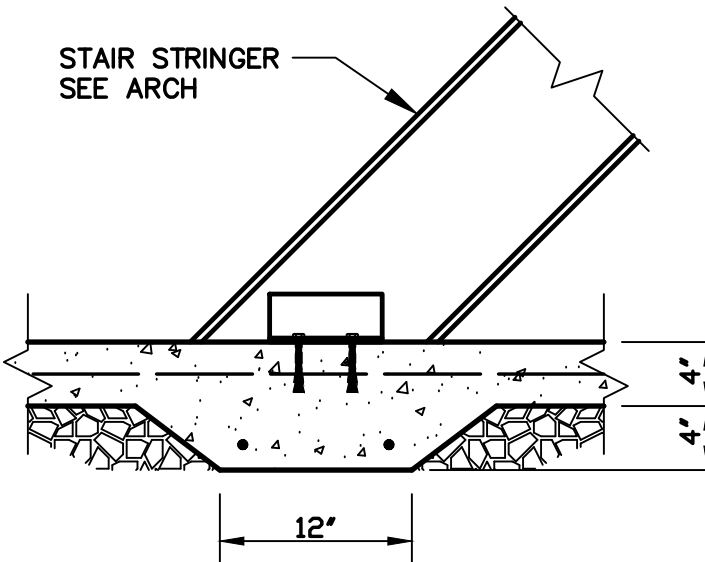
**TYPICAL CONCRETE WALL
INTERSECTION DETAILS**



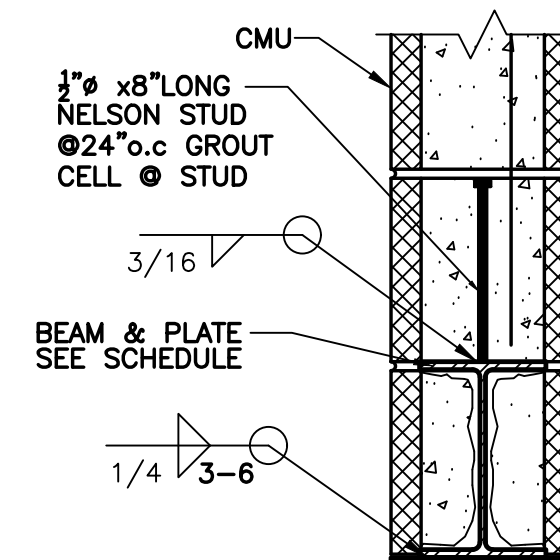
TYPICAL CONSTRUCTION JOINT DETAIL



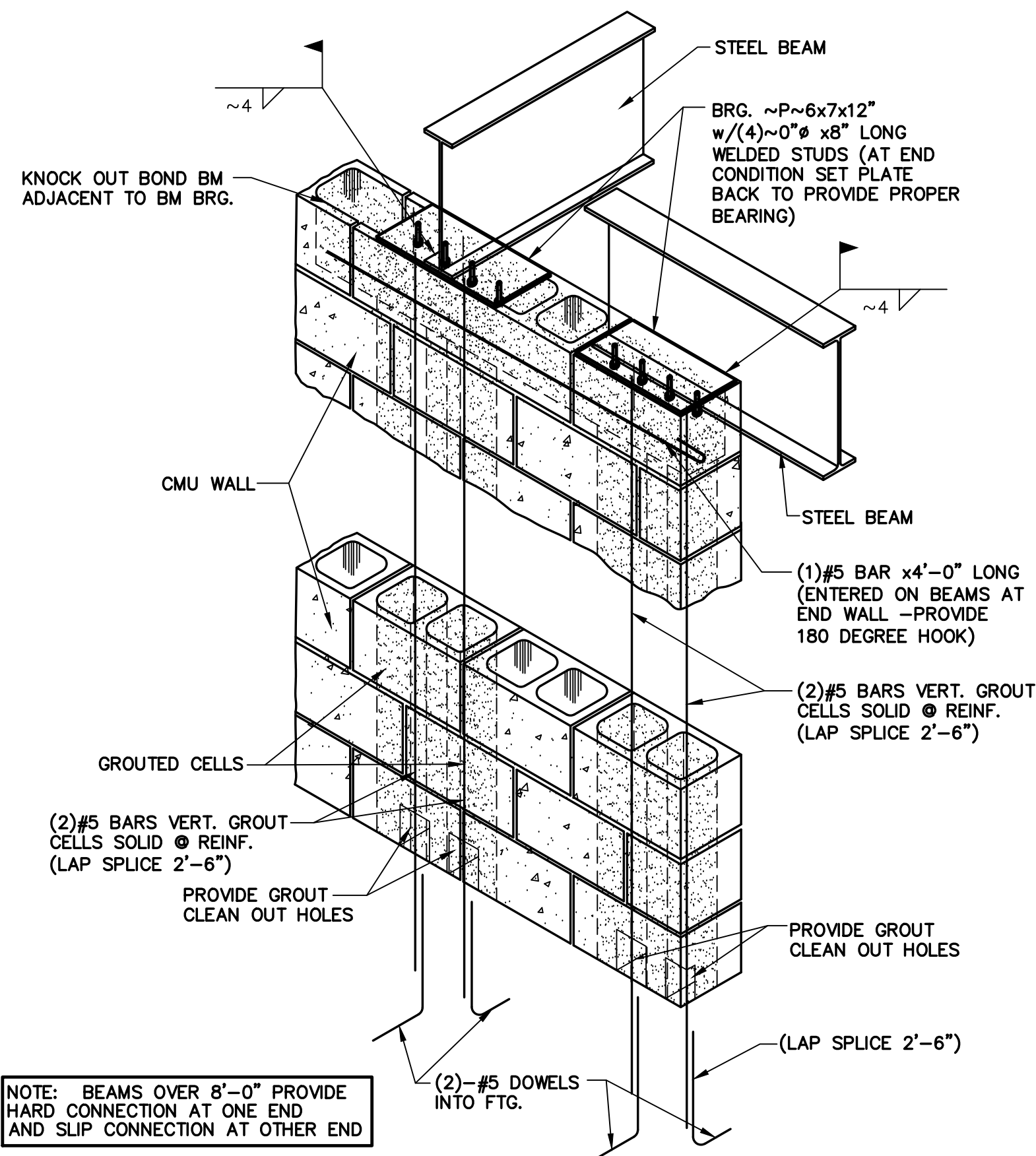
TYPICAL DOOR OPENING



**TYPICAL THICKENED SLAB
AT BASE OF STAIR**



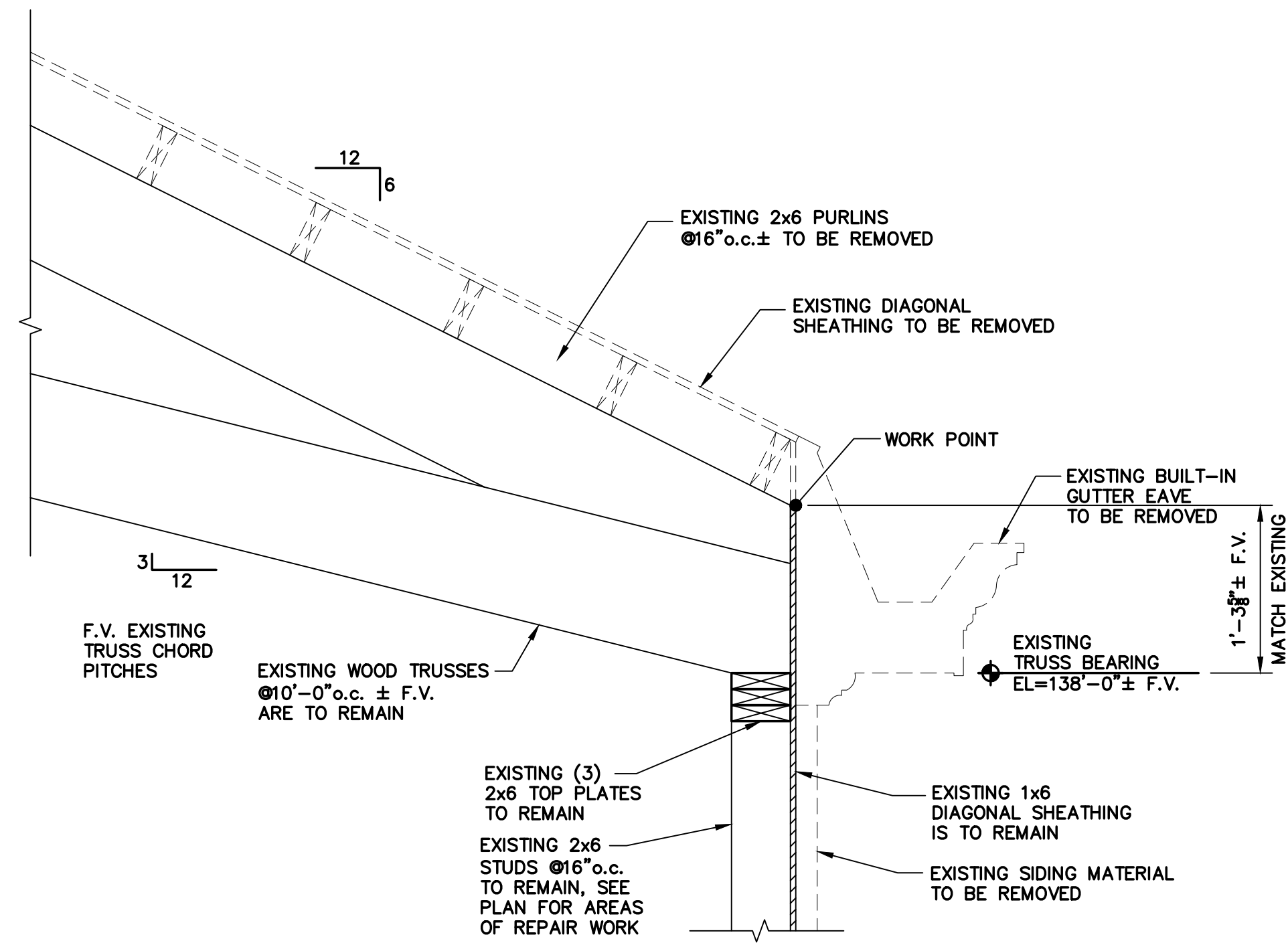
TYPICAL LINTEL BEAMS



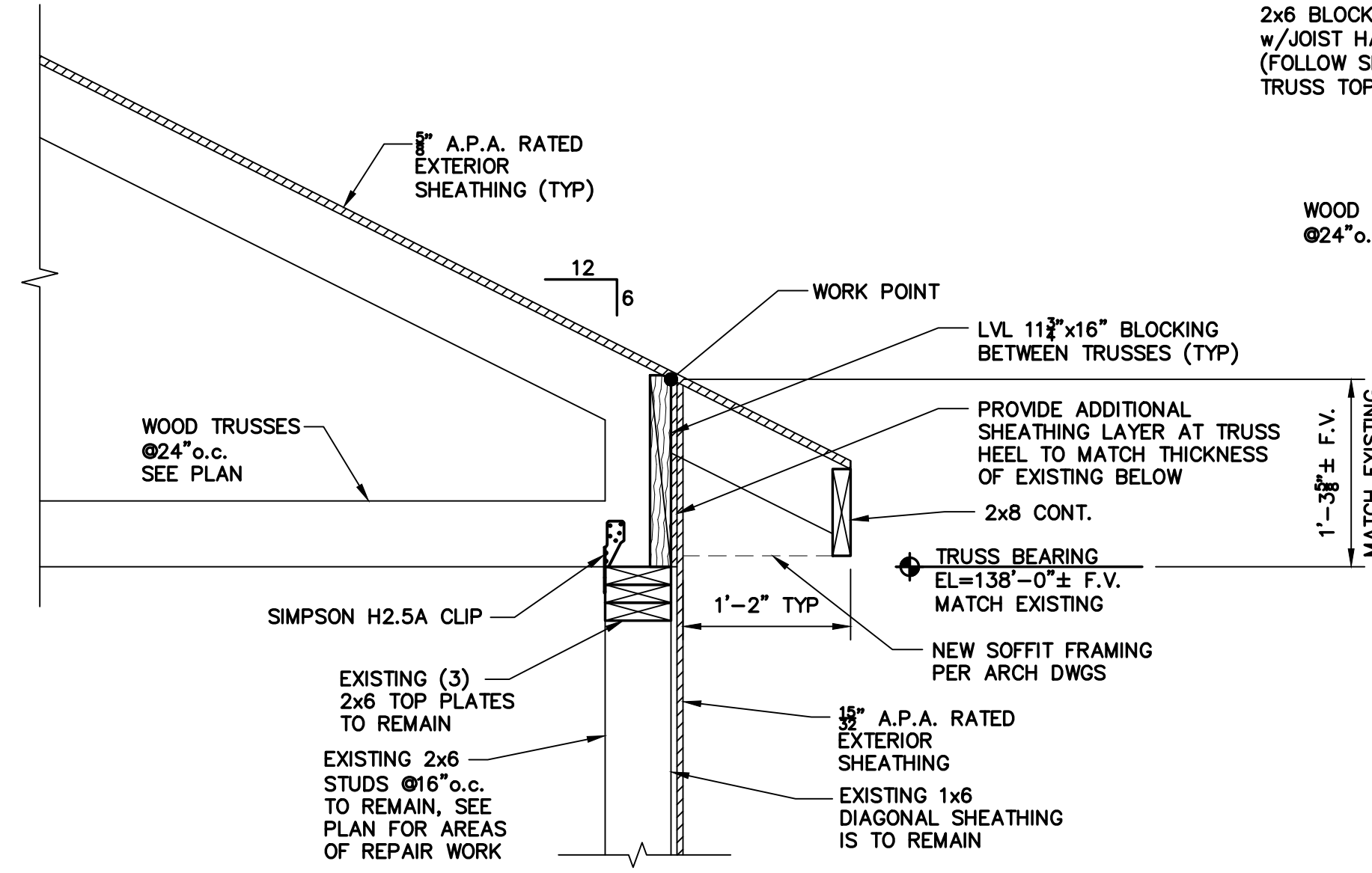
TYPICAL BEAM BRG. @ C.M.U. WALL

LINTEL SCHEDULE: NEW WALLS				
OPENING	8" BLOCK		12" BLOCK	
	SIZE	SHAPE	SIZE	SHAPE
0 TO 4'-0"	BOND BM. W/1-#5 BAR		16" BOND BM W/2-#5 BARS	
4'-1" TO 6'-0"	16" BOND BM W/2-#5 BARS		16" BOND BM W/2-#5 BARS	
6'-1" TO 8'-0"	WBx15 W/ 1/8"x7"		WBx15 W/ 1/8"x11"	
8'-1" TO 10'-0"	WBx18 W/ 1/8"x7"		WBx18 W/ 1/8"x11"	
10'-1" TO 12'-0"	WBx21 W/ 1/8"x7"		WBx21 W/ 1/8"x11"	
12'-1" TO 14'-0"	WBx24 W/ 1/8"x7"		WBx24 W/ 1/8"x11"	
14'-1" TO 16'-0"	WBx28 W/ 1/8"x7"		WBx28 W/ 1/8"x11"	

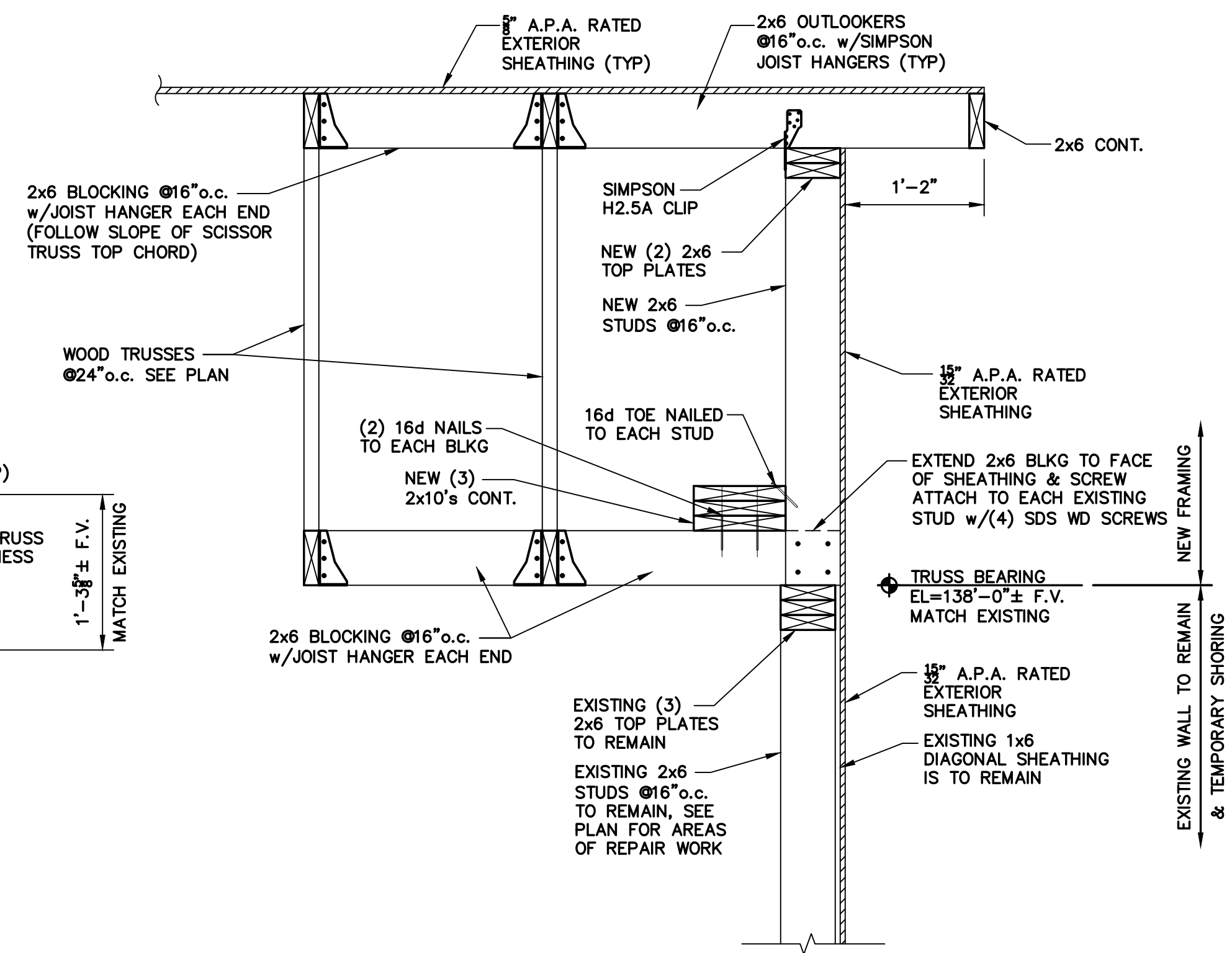
- NOTE:
1. THIS LINTEL SCHEDULE IS FOR ALL MASONRY OPENINGS SHOWN ON THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND PROVIDE ALL NECESSARY STEEL LINTELS AND MISC. FRAMING REQUIRED TO COMPLETE THE PROJECT WHETHER SHOWN ON THIS LINTEL SCHEDULE OR NOT.
 2. AT EXTERIOR WALL CONDITIONS, ONLY THE STEEL PLATE SHALL BE GALVANIZED, PROVIDED THE STEEL BEAM IS NOT EXPOSED.
 3. IF THE LINTEL OCCURS AT A CORNER, THE STEEL PLATE SHALL BE EXTENDED TO A MITERED CORNER.
 4. ALL LINTEL BEAMS OVER MASONRY OPENINGS GREATER THAN 6'-0" SHALL HAVE NELSON STUDS. REFER TO TYPICAL LINTEL BEAM DETAIL.
 5. ALL LINTEL BEAMS SPANNING GREATER THAN 8'-0" SHALL HAVE BEARING PLATES AND THE BOTTOM PLATE SHALL EXTEND FULL BEAM LENGTH. REFER TO TYPICAL BEAM BEARING DETAIL.
 6. PLATE WIDTH MAY VARY FROM STANDARD SIZES SHOWN. CONTRACTOR SHALL VERIFY SIZE SO THAT WIDTH=(WALL THICKNESS - 1").
 7. IN LOCATIONS WHERE BOND BEAMS WILL ATTACH TO STEEL COLUMNS, THE CONTRACTOR SHALL SUBSTITUTE A STEEL BEAM AND PLATE. REFER TO THE SCHEDULE FOR THE NEXT AVAILABLE SIZE.
 8. THIS SCHEDULE APPLIES FOR MASONRY OPENINGS REQUIRED BY SOFFITS OR RECESSED DOOR OPENINGS SHOWN ON ARCHITECTURAL DRAWINGS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.
 9. ALL LINTELS SHALL BEAR A MINIMUM OF 8" ON CMU. BEARING ON BRICK VENEER DOES NOT COUNT TOWARDS THE MINIMUM BEARING REQUIREMENTS.
 10. REFER TO ARCH. DEMO PLANS FOR NEW OPENINGS IN EXISTING WALLS.



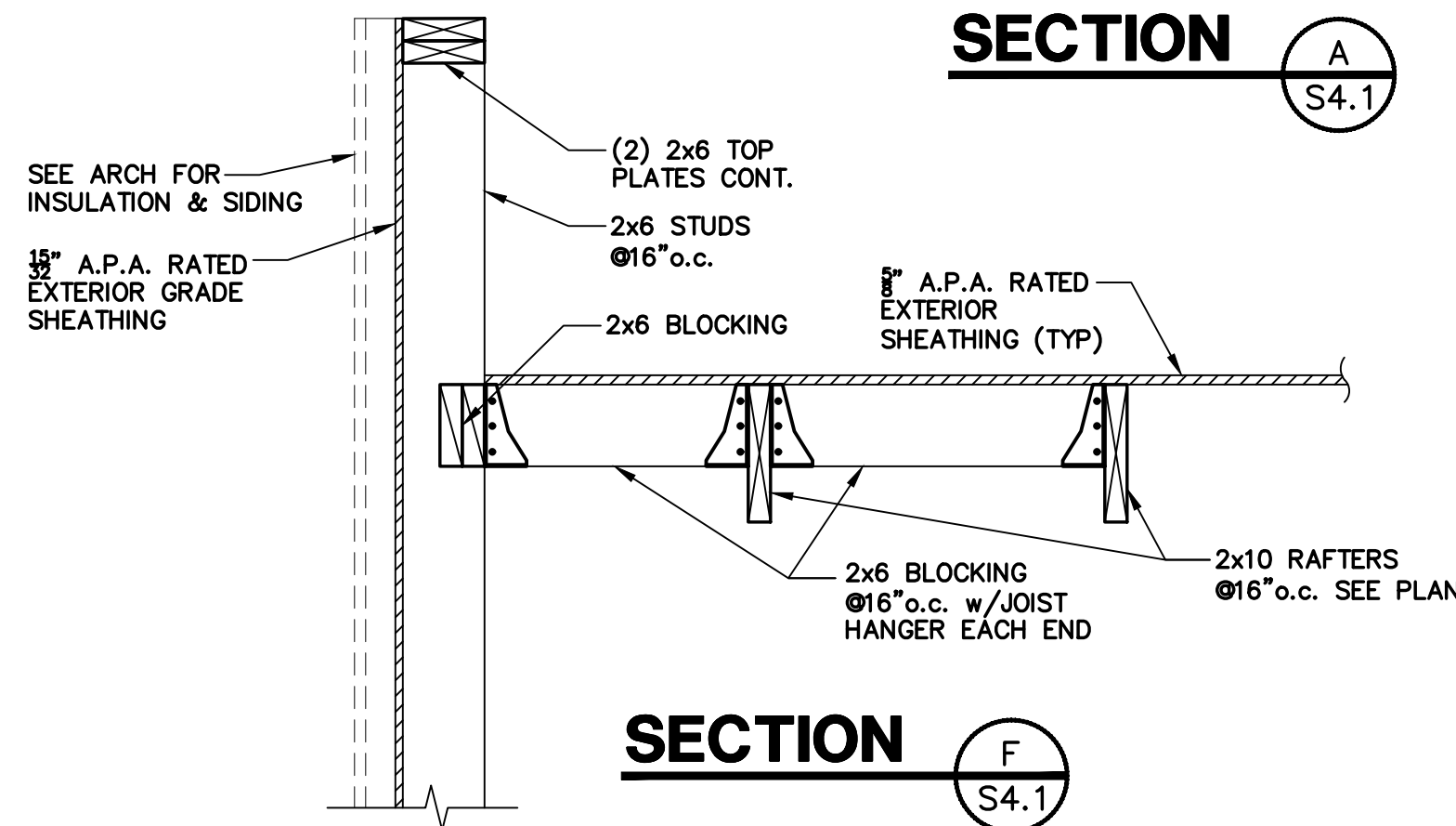
EXISTING EAVE CONDITION DEMOLITION DETAIL



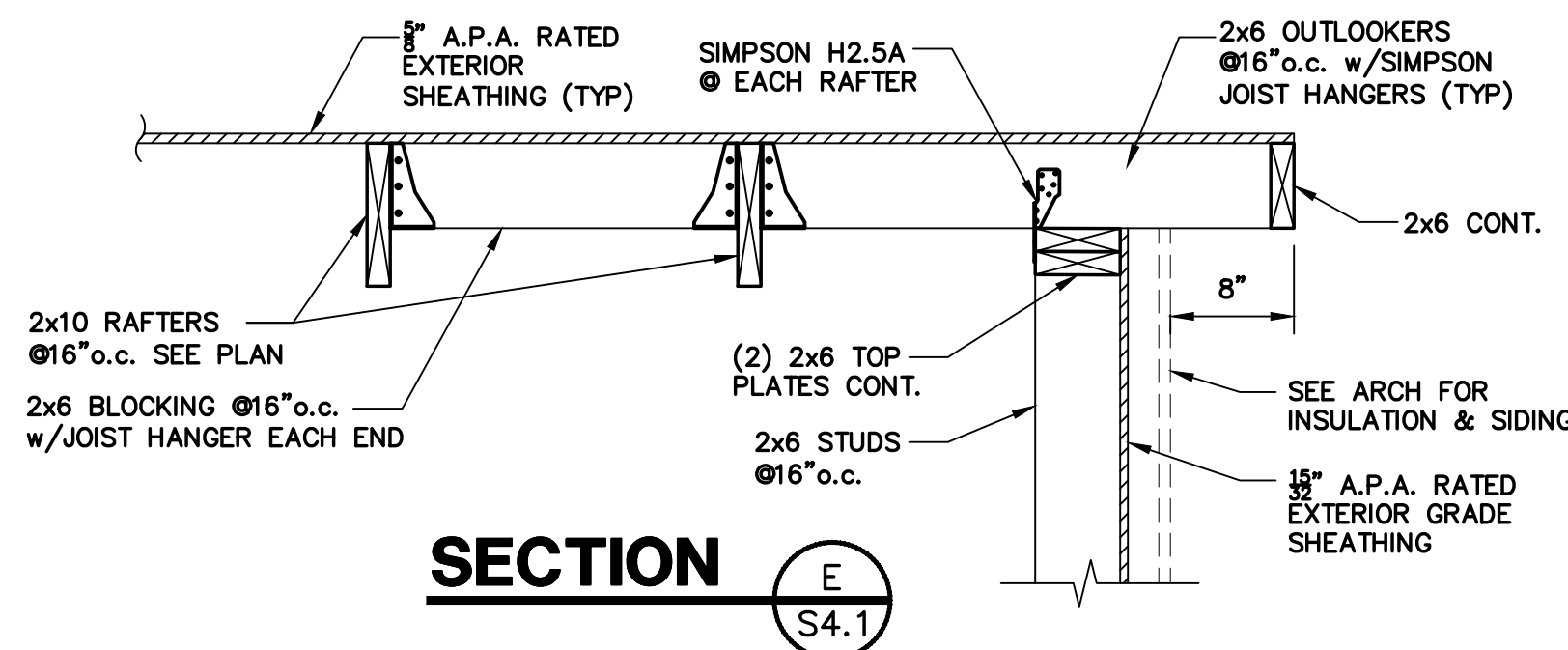
NEW ROOF EAVE DETAIL



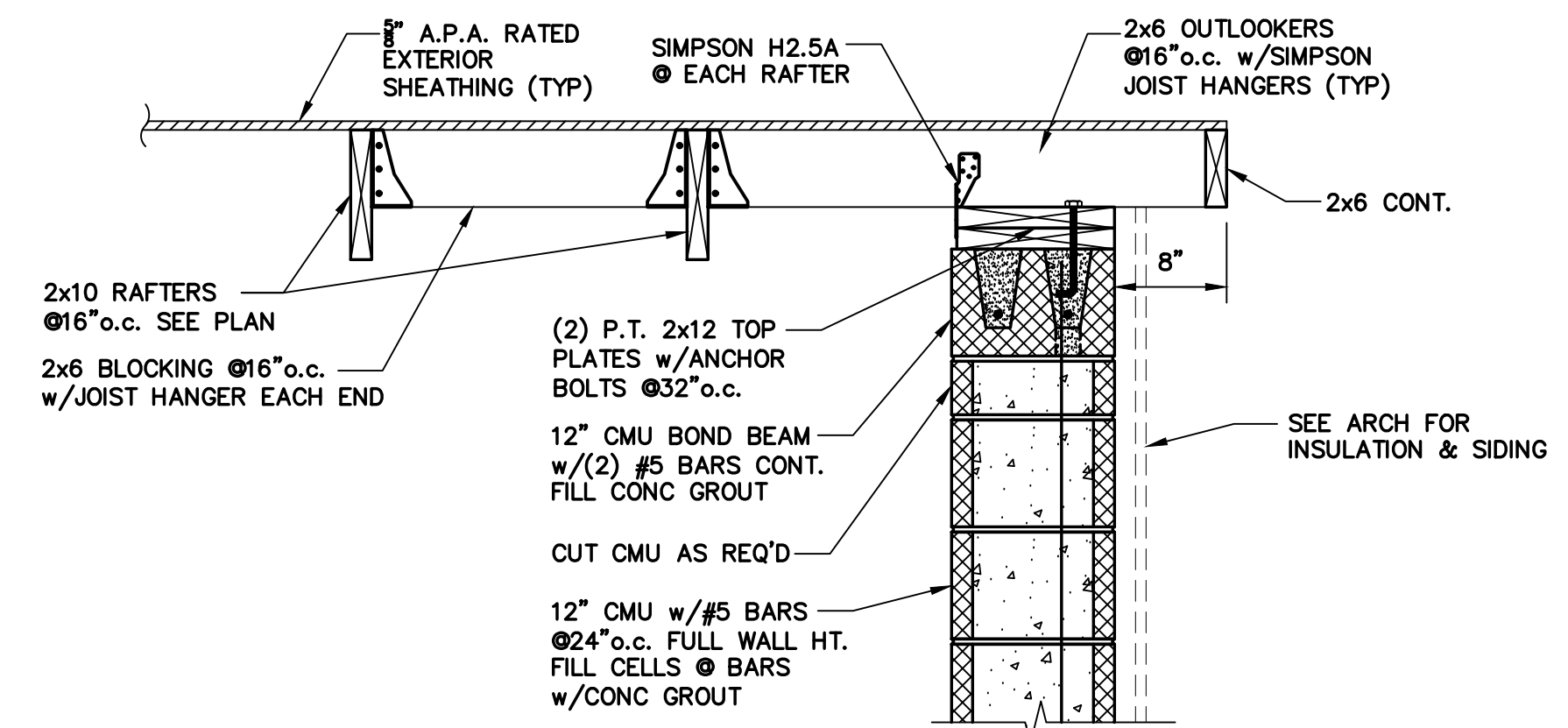
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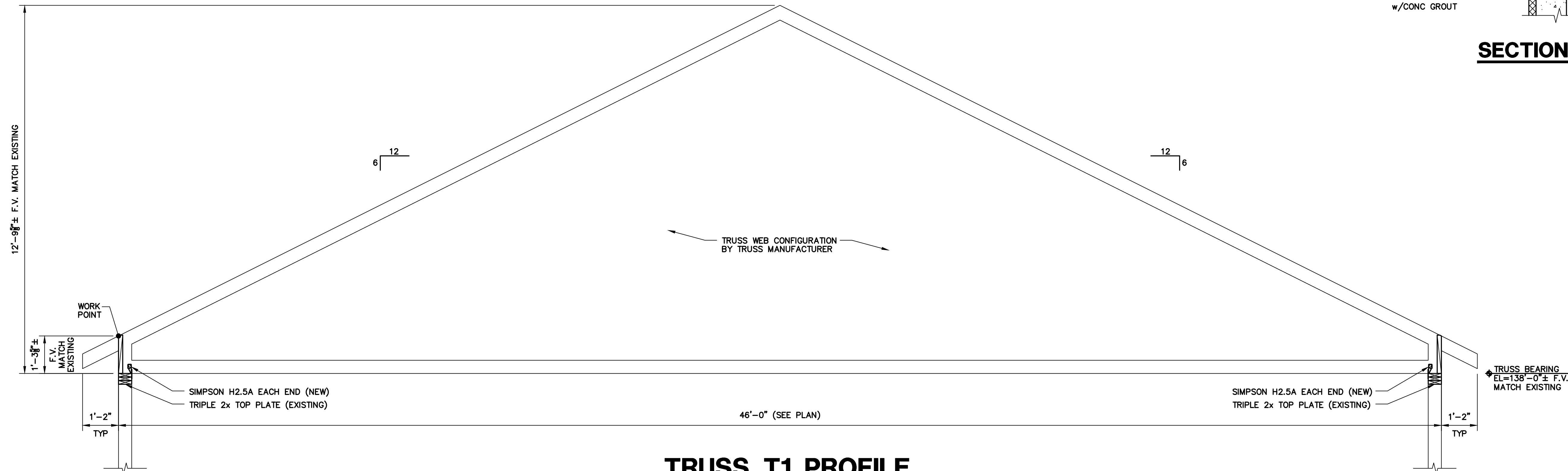
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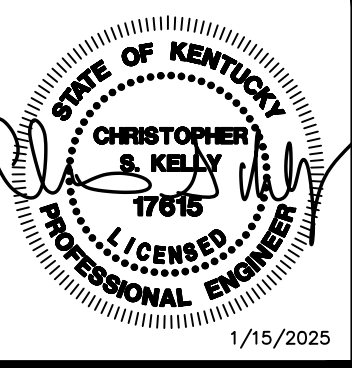
SECTION E S4.1



SECTION D S4.1



TRUSS T1 PROFILE



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880 Sparta Ct. Suite 200
Lexington, KY 40504
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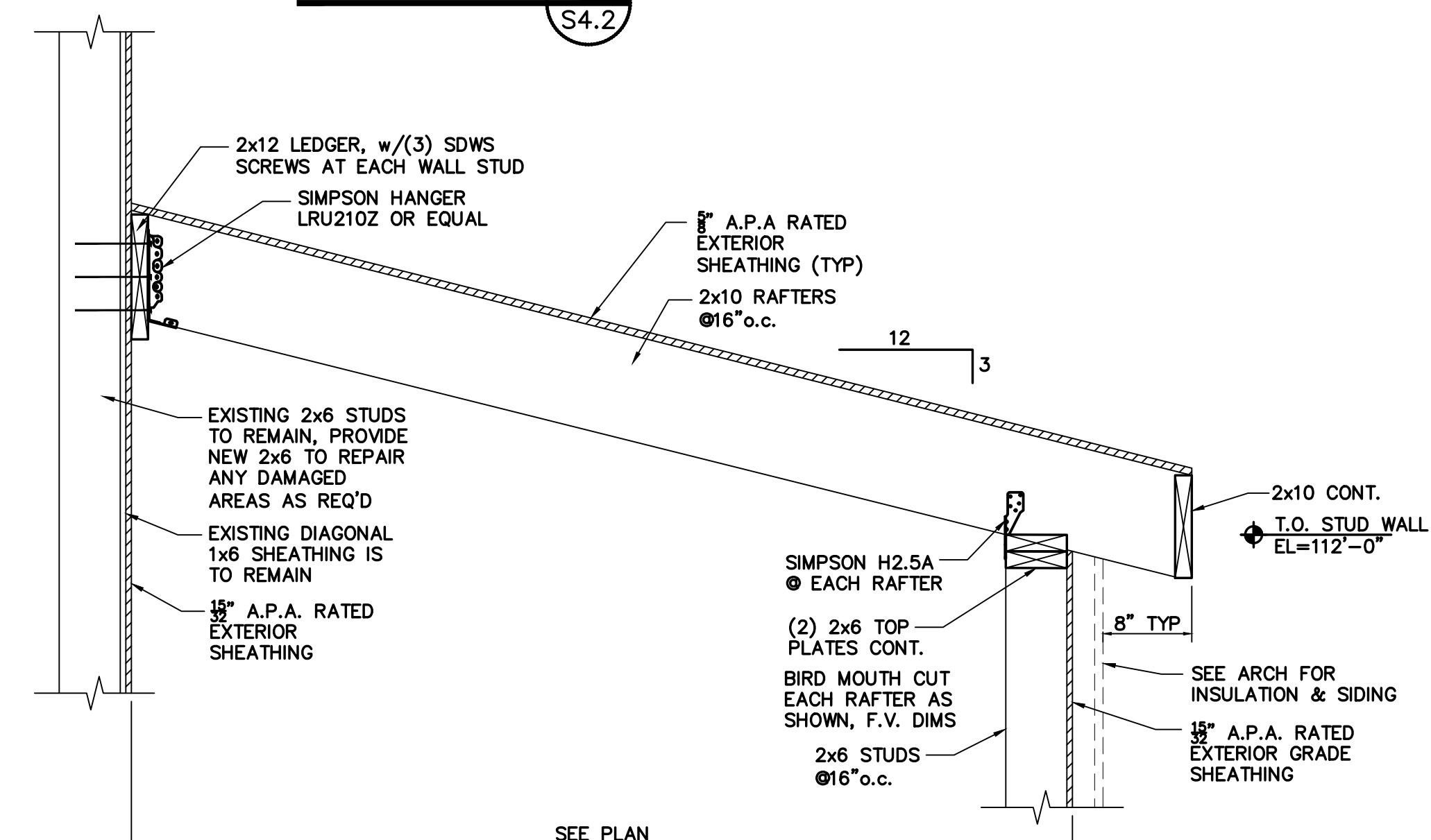
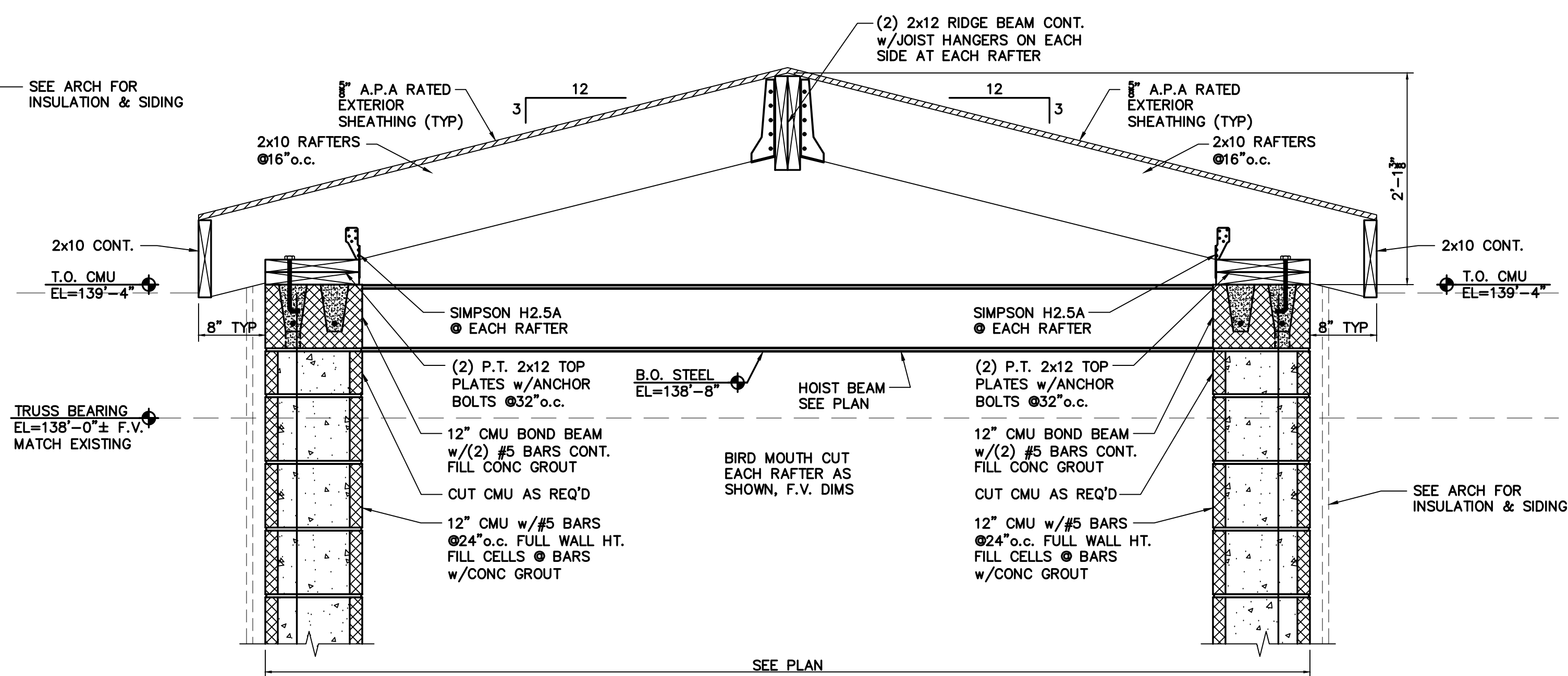
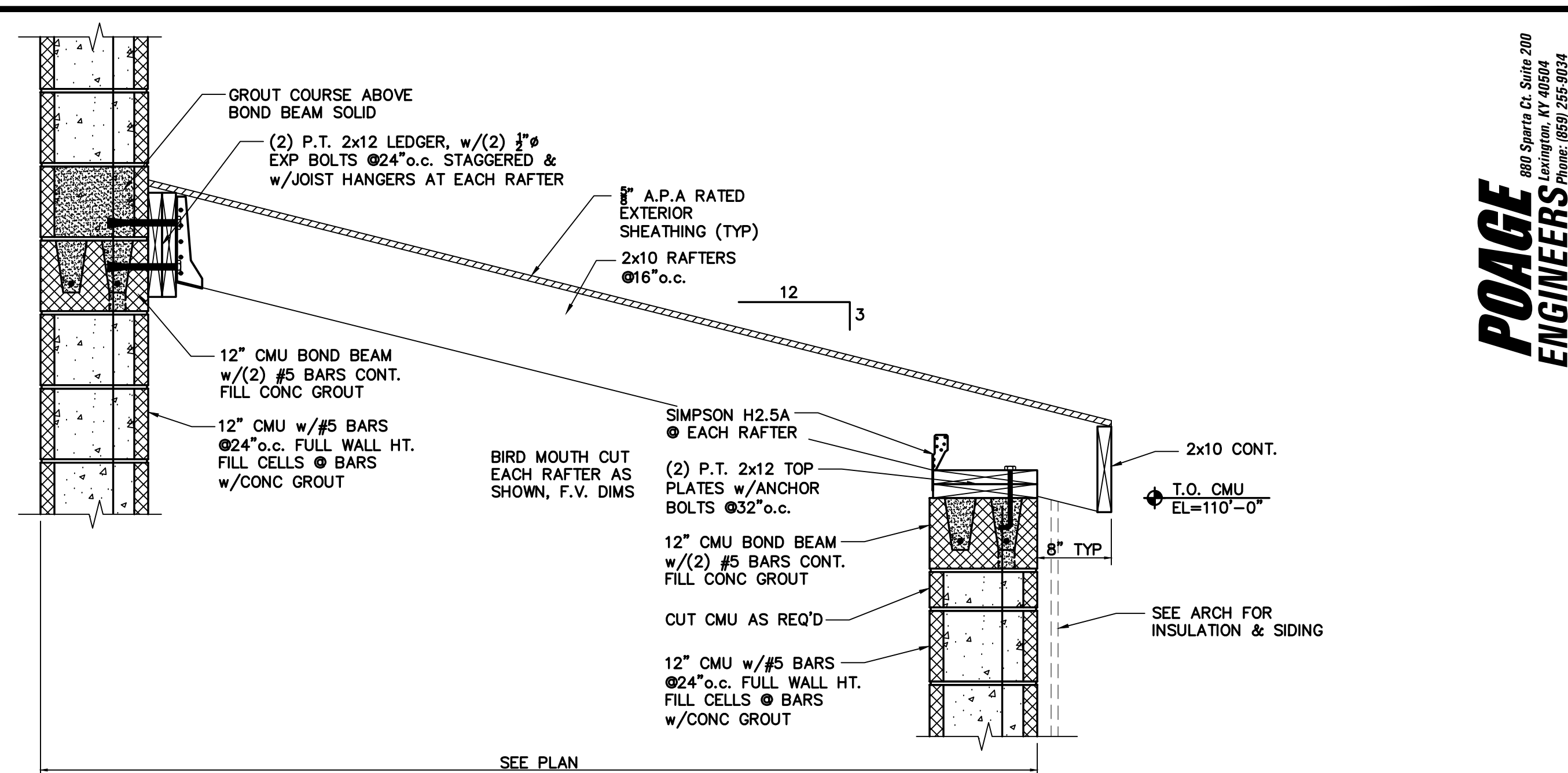
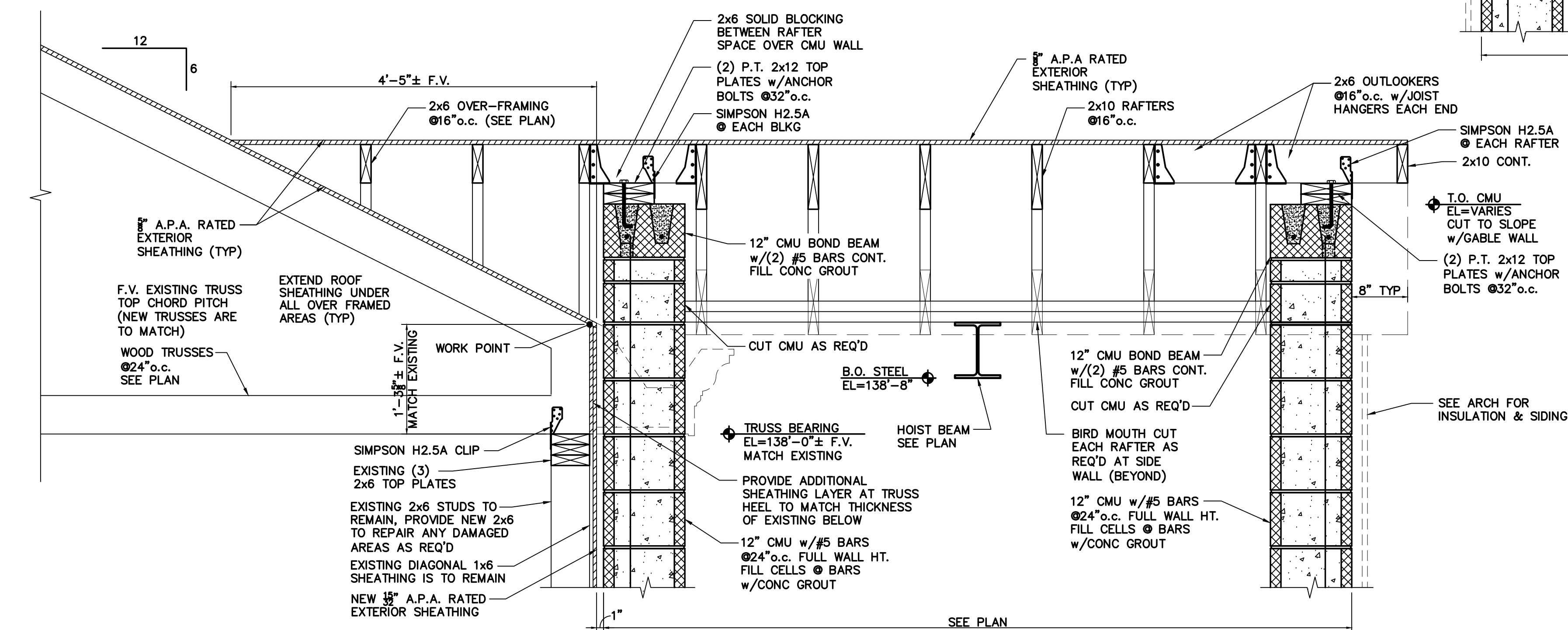
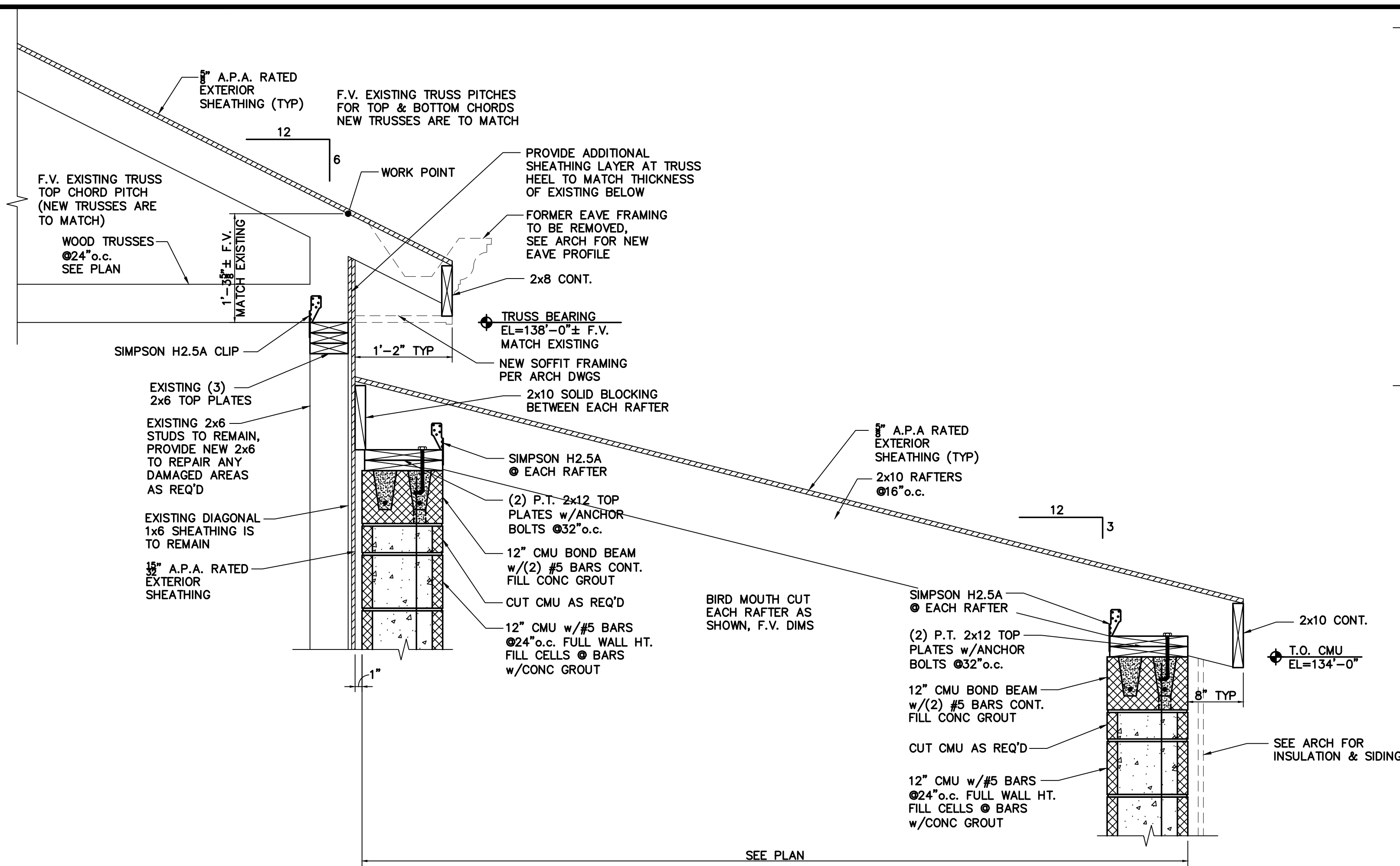
DATE	REVISION
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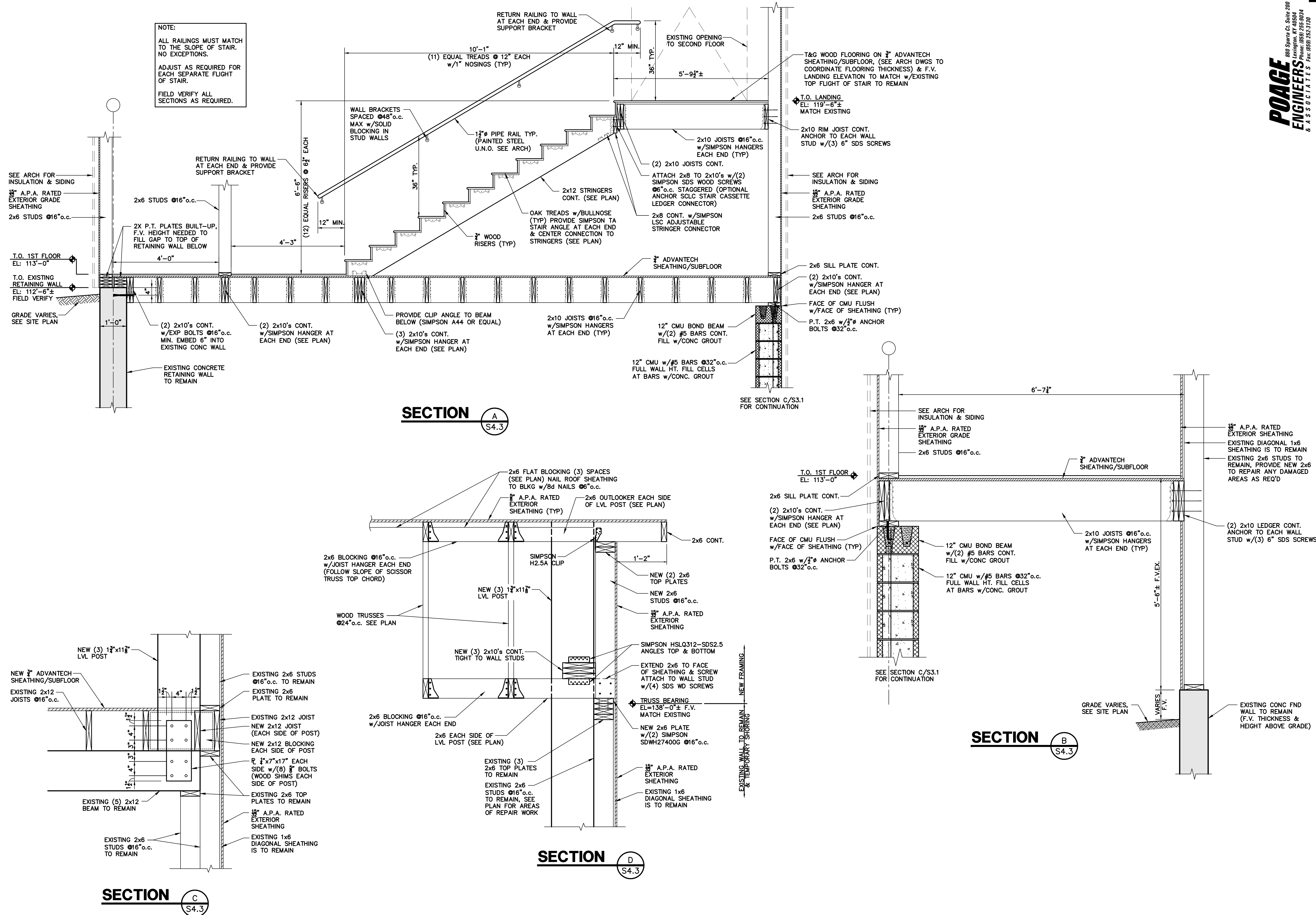
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		24141	HMM	CSK			01.15.2025

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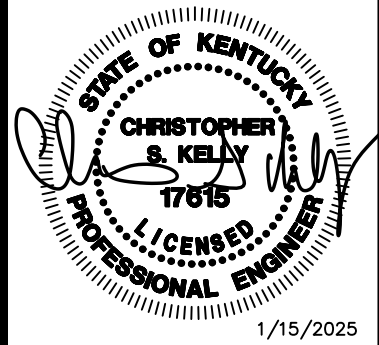
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POAGE/24147/0115.2025/HMM



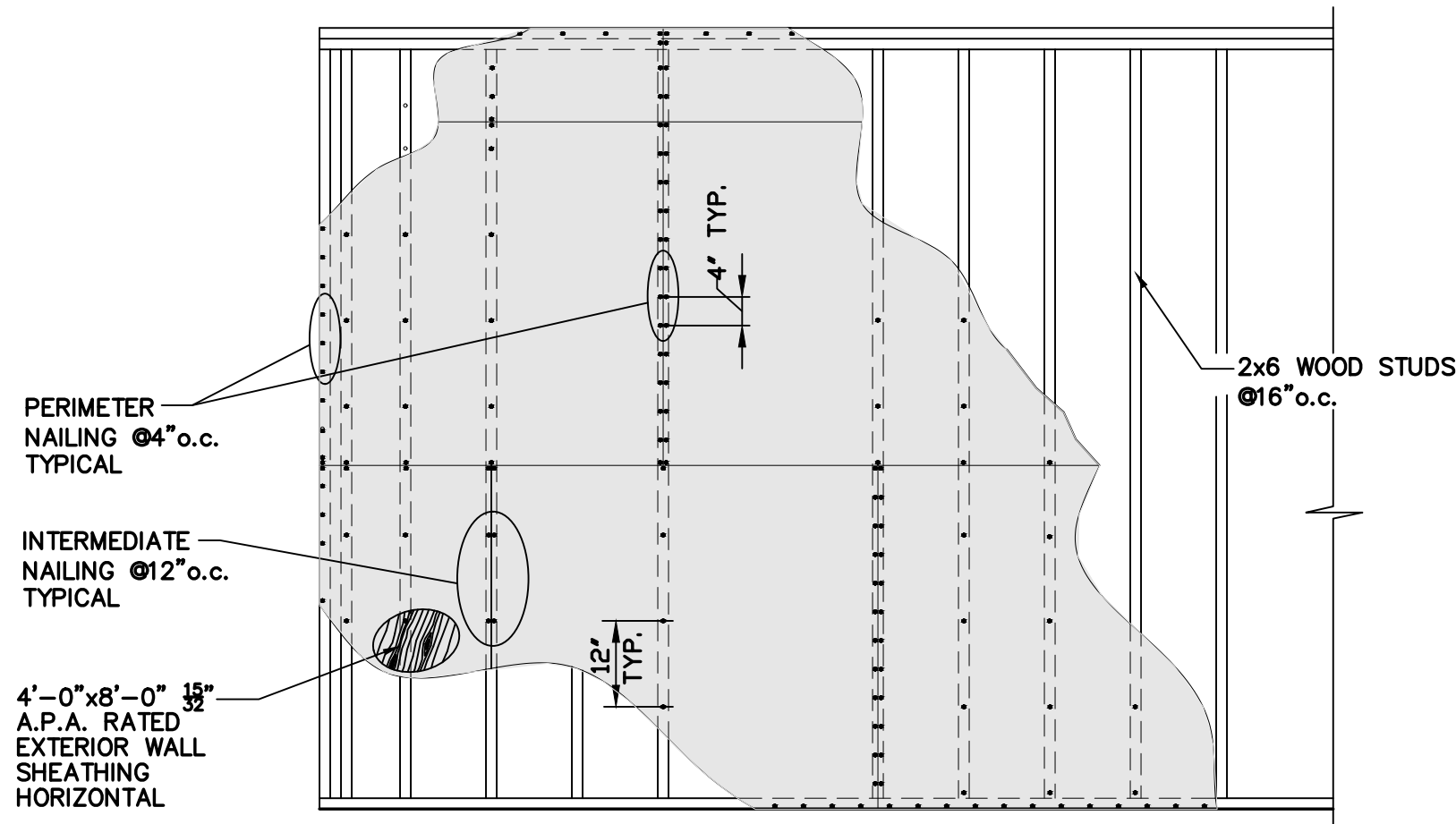
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ALL EXTERIOR WALL SHEATHING SHALL BE 1/2" A.P.A. RATED EXTERIOR SHEATHING ATTACHED w/8d NAILS @4"o.c. ALONG ALL EDGES & @12"o.c. MAX. ALONG ALL INTERMEDIATE SUPPORTS. (EXCEPT WHERE NOTED)

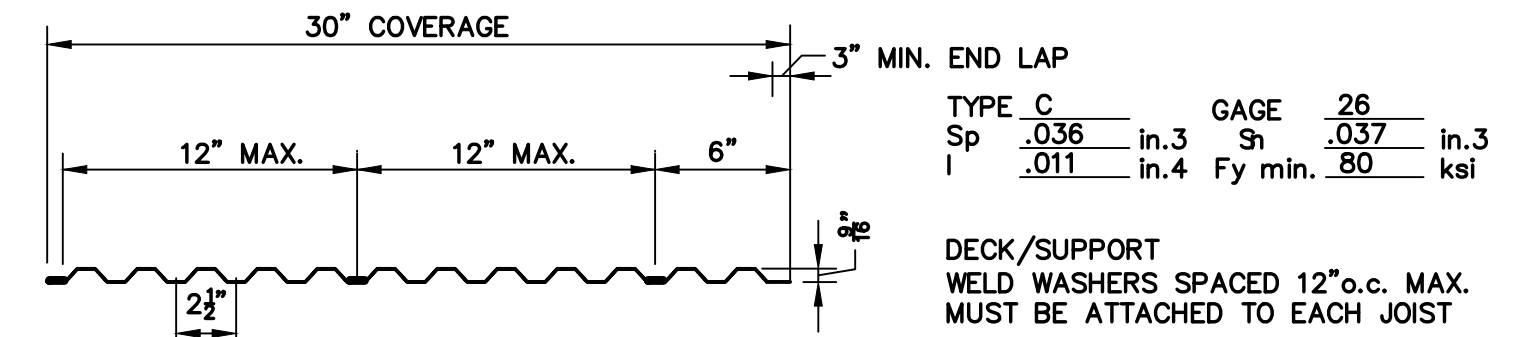
TYPICAL EXTERIOR WALL SHEATHING ATTACHMENT

NOTES:
-ALL ROOF TRUSSES TO BE @24"o.c. MAX.
-ALL TRUSSES SHALL BE ATTACHED TO PLATE (OR LVL) USING SIMPSON H2.5A TRUSS ANCHORS EACH END

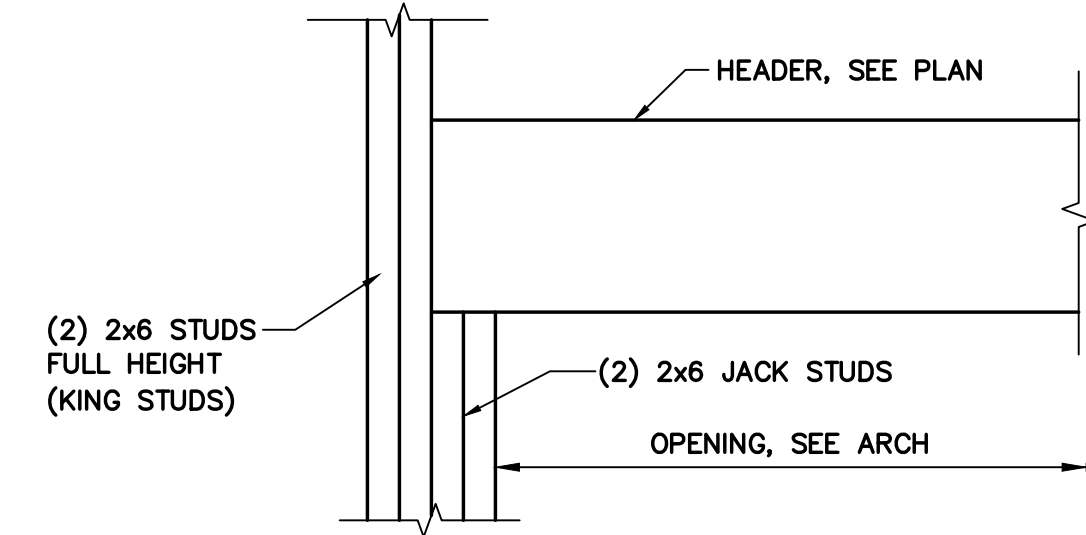
- NOTES:
- ALL ROOF SHEATHING SHALL BE 5/8" SQUARE EDGE EXTERIOR SHEATHING w/H-CLIPS ATTACHED w/8d NAILS @6"o.c. ALL EDGES & @12"o.c. MAX AT ALL INTERMEDIATE SUPPORTS (TYPICAL U.N.O.)
 - ALL EXTERIOR WALL SHEATHING SHALL BE 1/2" APA RATED EXTERIOR SHEATHING ATTACHED PER TYPICAL SHEAR PANEL NAILING DETAIL.
 - ALL WOOD BEAMS SHALL HAVE PLYWOOD SPACERS AS REQUIRED TO PROVIDE BEAM WIDTH TO MATCH STUD WALL WIDTH.
 - ALL WOOD TRUSSES SHALL BE SPACED @24"o.c. (TYP U.N.O.)
 - ALL TRUSSES SHALL BE ATTACHED TO PLATE (OR LVL) USING SIMPSON H2.5A TRUSS ANCHORS EACH END.

TRUSS NOTES:

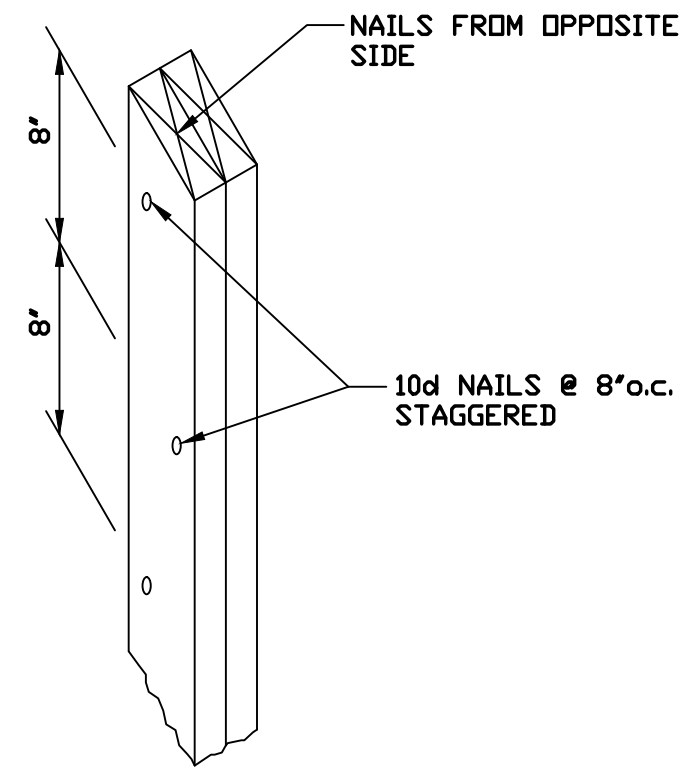
- Lumber Specifications: Top and bottom chords to be No. 2 (2x4 minimum) Southern Pine minimum. Web members to be No. 2 Southern Pine minimum. (2x4 minimum)
- Provide 2x4 cross bracing or bridging at all 1/3 points of the truss span for the bottom chord. All wood truss bracing shall conform to the Truss Plate Institute HIB-(latest edition).
- The erection and handling of the wood trusses must follow the Truss Plate Institute HIB-(latest edition).
- Truss gusset plates shall be steel, either nailed or press-in, complying with the standards of the Truss Plate Institute HIB-(latest edition).
- The structural design of the wood trusses shall be based on the design loads shown. Should truss design or design loads vary from that shown, comply with local design codes. The Contractor shall submit truss shop drawings, including structural calculations, signed and sealed by a Structural Engineer, licensed to practice in Kentucky, for review.
- Design loads for wood trusses are as follows:
TOP CHORD
Dead load = 15 PSF
Live load = 20 PSF
Wind load = (per KBC)
BOTTOM CHORD
Dead load = 10 PSF



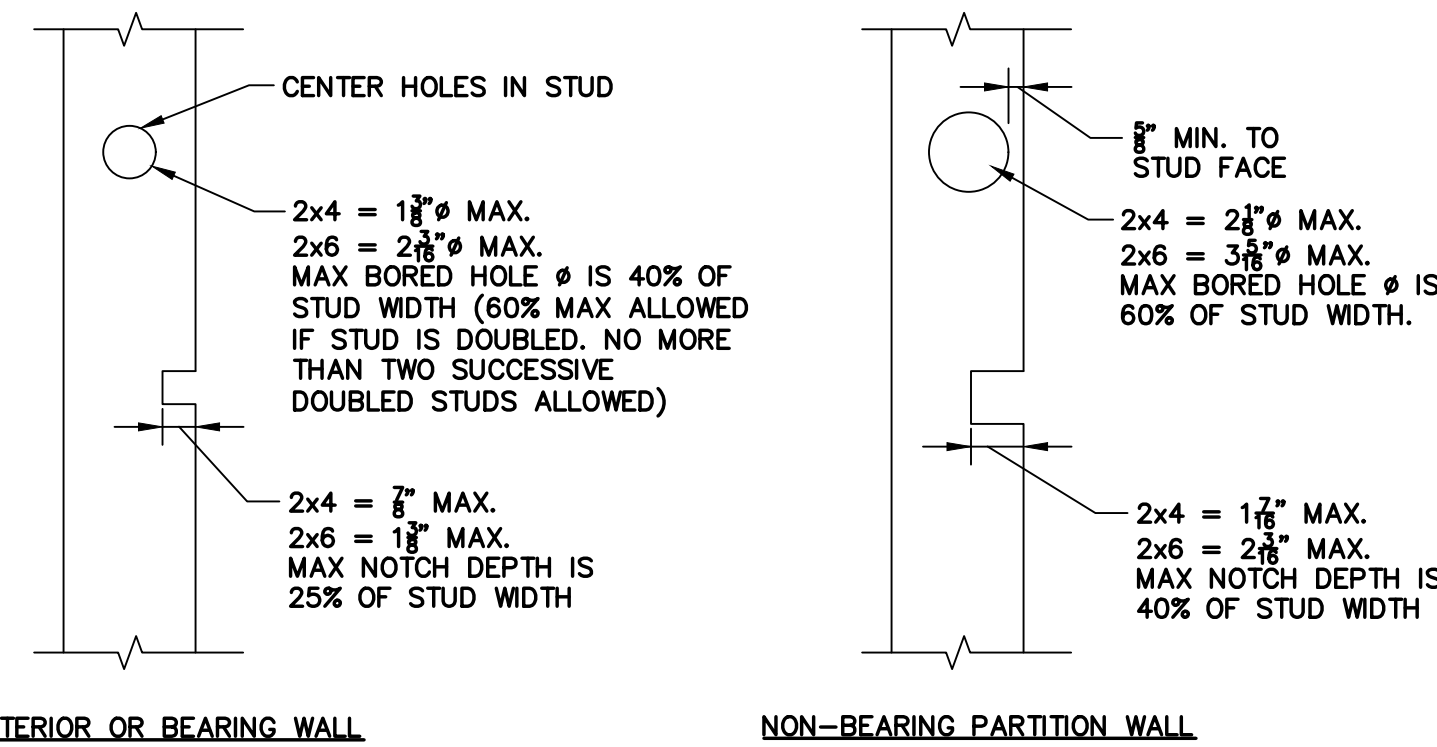
TYPICAL FLOOR DECK ATTACHMENT



TYPICAL WINDOW / DOOR OPENING DETAIL

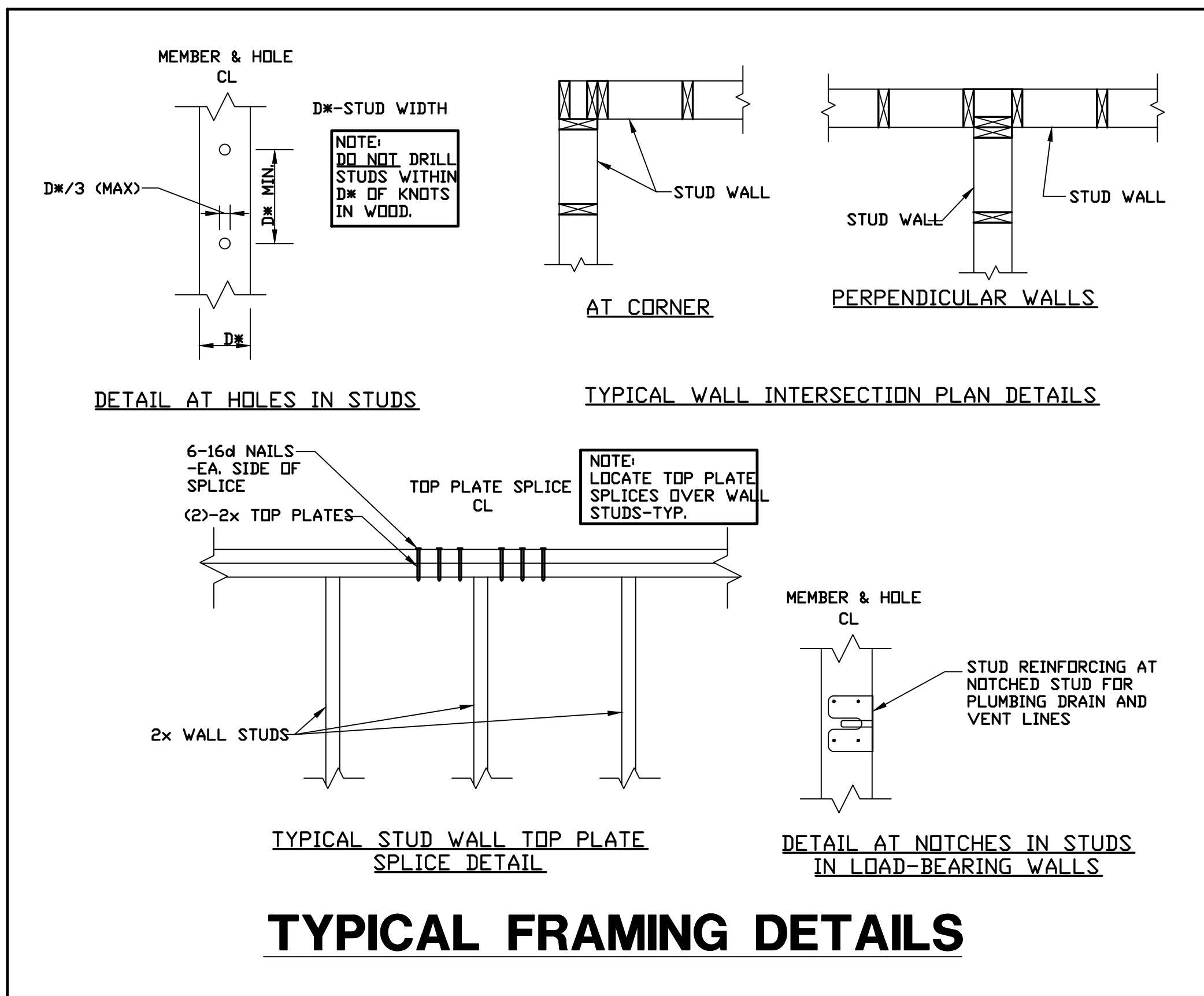


TYPICAL NAILING PATTERN FOR MULTIPLE STUDS

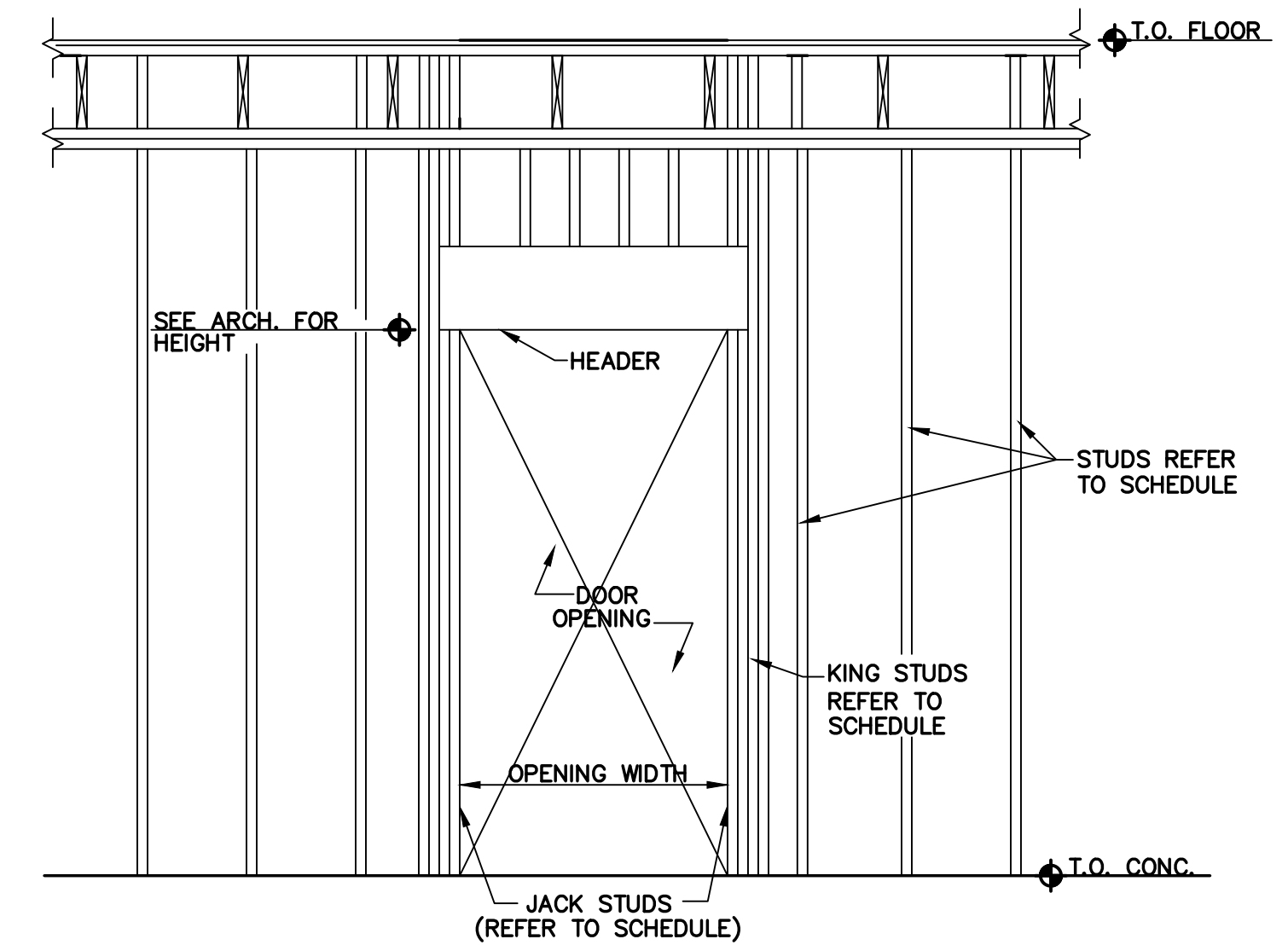


NOTES FOR BEARING WALLS:
1. HOLES SHALL NOT BE LOCATED IN THE SAME STUD AS A CUT OR NOTCH.
2. CONTACT ARCHITECT PRIOR TO CUTTING OR NOTCHING TO VERIFY SIZE AND LOCATION IF HOLES GREATER THAN 20% STUD WIDTH OR NOTCHES GREATER THAN 10% STUD WIDTH ARE REQUIRED IN TWO OR MORE CONSECUTIVE STUDS.

TYPICAL DETAIL FOR HOLES IN STUD WALLS

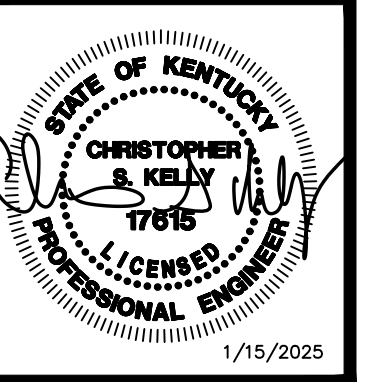


TYPICAL FRAMING DETAILS



DOOR OPENING ELEVATION

POAGE ENGINEERS & ASSOCIATES
880 Sparta Ct. Suite 200
Lexington, KY 40504
Phone: (606) 253-5694
Fax: (606) 253-3130



**HISTORIC STEARNS
DOWNTOWN
REVITALIZATION
STEARNS, KENTUCKY**

PROJECT NO.	24141	DATE	REVISION
DESIGNED BY	HMM		
DRAWN BY	CSK		
CHECKED BY			
REVIEWED BY			
DATE	01.15.2025		
REVISION			

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Architects
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624 Wellington Way
Lexington, KY 40503
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Fax: (606) 223-2607
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S-4.4

"FRONT" OF BUILDING, AS REFERENCED THROUGHOUT DRAWINGS, SHALL BE THE FACE ON HENDERSON STREET, WITH RIGHT AND LEFT DETERMINED AS ONE FACES THE FRONT.

ALL TRIM & MOULDING IS TO BE AZEK (SMOOTH) "PAINTPRO." Ø" ALL SIDING IS TO BE Ø" DIAMOND KOTE RIGID STACK GAP SIDING; 6" GAP IS ALSO ACCEPTABLE.

AZEK IS TO BE USED FOR TRIM, FASCIA, & MOULDING BECAUSE OF ITS SMOOTH NON-TEXTURED FINISH. DIAMOND KOTE IS TO BE USED FOR SIDING & VENTILATED SOFFITS.

ALL WOOD PLANK FLOORING IN STORE I & THE MUSEUM SHOULD BE CAREFULLY REMOVED WITH THE INTENT TO REINSTALL.

THE PROJECT WILL BE DESIGNED AND BID IN 2 PHASES. THIS, PHASE 1, INCLUDES, BUT NOT LIMITED TO, STRUCTURAL CHANGES, NEW TRUSS & ROOF, NEW EXTERIOR SURFACES, DOORS, WINDOWS, ELEVATOR/STAIR TOWER, FRONT EXTERIOR STAIR REBUILD, GRADING, & SITE IMPROVEMENTS. PHASE 1 DOES NOT INCLUDE FRONT ENTRANCE REDESIGN, FRONT STOREFRONT, OR INTERIOR FIT-UP/RENOVATION. THE ARCHITECTURAL DRAWINGS ARE ORGANIZED BOTH BY FLOOR LEVELS - BASEMENT(LOWER LEVEL), 1ST FLOOR LEVEL(HENDERSON STREET LEVEL), 2ND FLOOR, & DEMOLITION/NEW.

A-11: REPLACING 2 EXISTING EXTERIOR DOORS, FILL IN WALL WHERE NEEDED AROUND NEW EXTERIOR DOOR. REPLACING 2 EXISTING WINDOWS REMOVING 1 EXISTING WINDOW. REPAIRING 3 EXISTING WINDOWS, CUTTING OPENINGS FOR NEW DOORS & ACCESS TO STAIRS & ELEVATOR. REPLACING LEFT SIDE EXTERIOR WALLS WITH NEW 1 HR. FIRE RATED ASSEMBLY. ELEVATOR & STAIR TOWER FOOTINGS & FOUNDATION TO BE BUILT ACCORDING TO STRUCTURAL DRAWINGS & SPECIFICATIONS.

A-1.2: REMOVAL OF ALL WINDOWS ON LEFT & RIGHT SIDES. REPLACING WINDOWS ON REAR AND FRONT. CREATE OPENINGS TO CONNECT STORE 1 & STORE 3 @ COMMON WALL. CREATE OPENINGS FOR NEW DOORS & ACCESS TO STAIRS & ELEVATOR. REBUILDING EXTERIOR STAIR ENTRANCE ON RIGHT SIDE. STORE 3 EXTERIOR WALL TO BE REBUILT AS 1-HR FIRE RATED ASSEMBLY. REMOVING/ REPLACING EXISTING WOOD SUBFLOOR.

A-1.3. CREATE OPENINGS FOR DOORS & ACCESS TO STAIRS & ELEVATOR. REMOVING 5 WINDOWS & FILL IN. REPLACING 3 WINDOWS IN FRONT, 3 WINDOWS IN REAR, 6 WINDOWS IN RIGHT SIDE, & 9 WINDOWS ON THE LEFT SIDE. REMOVING/ REPLACING EXISTING WOOD SUBFLOOR. REMOVING ALL COMPONENTS OF ROOF, SOFFIT, FASCIA, & MOULDINGS, EXCLUDING TIMBER TRUSSES. REMOVING ALL EXISTING INTERIOR PARTITIONS. REFINISHING INTERIOR PORTION OF EXISTING STAIRS ON RIGHT SIDE. REBUILD NEW TRUSS/ROOF STRUCTURE PER STRUCTURAL DRAWINGS & SPEC'S.

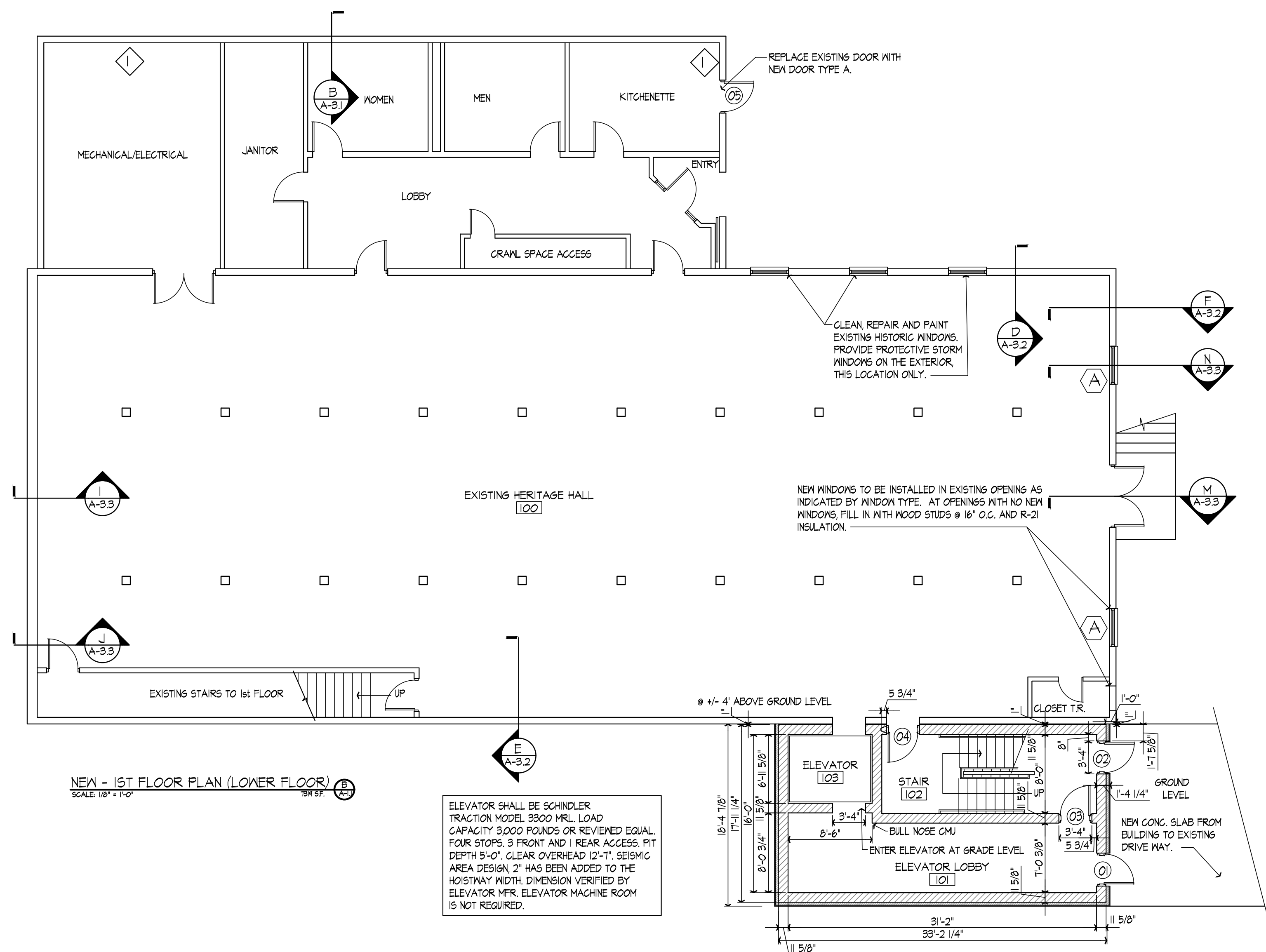
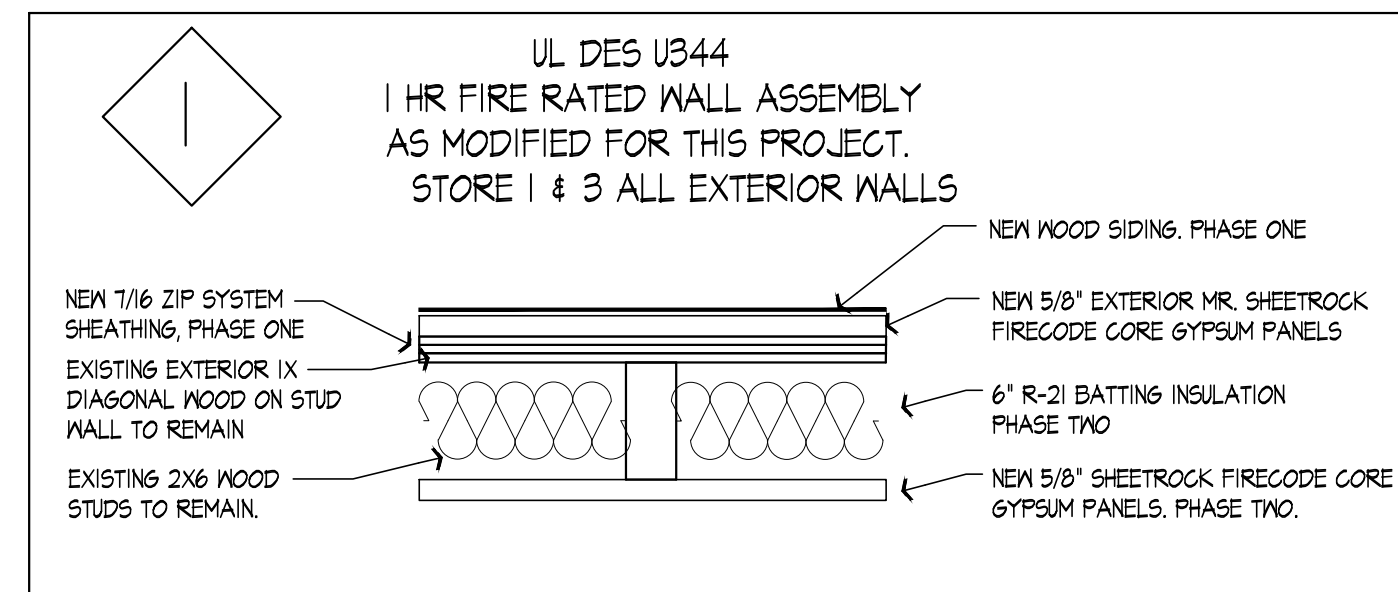
A-2.1, A-2.2, A-2.3, A-2.4: DRAWINGS & PHOTOS OF EXTERIOR ELEVATIONS WITH INDICATIONS OF ITEMS TO BE REMOVED.

A-2.5, A-2.6, A-2.7, A-2.8: DRAWINGS OF NEW EXTERIOR ELEVATIONS WITH INDICATIONS OF WINDOW PLACEMENT, NEW DOOR TYPES/PLACEMENTS, & EXTERIOR MATERIALS

A-3.1, A-3.2, A-3.3, A-3.4, A-6.1, A-6.2: SECTIONS, DETAILS, & SCHEDULES OF NEW CONSTRUCTION & MATERIALS.

THE MEP SCOPE OF WORK FOR THE PROJECT CONSISTS OF BOTH DEMOLITION & NEW WORK. DEMOLITION SCOPE OF WORK INVOLVES REMOVING ALL MEP ITEMS LOCATED ON 1ST & 2ND FLOORS TO PREPARE FOR FUTURE PHASE 2 FIT-UP. NEW SCOPE OF WORK INVOLVES MEP ITEMS ASSOCIATED WITH THE ADDITION OF NEW BUILDING ENT STAIRWELL(S), ELEVATOR LOBBY, & MACHINE ROOM-LESS (LRL) ELEVATOR. FIRE PROTECTION WILL BE EXTENDED FROM BASEMENT AND STUBBED OUT @ 1ST & 2ND FLOORS OF BUILDING FOR FUTURE CONNECTIONS. ELECTRIC HEATERS WILL BE INSTALLED FOR CONDITIONING OF NEW SPACES. A NEW ELECTRIC SUB PANEL WILL BE ADDED TO HANDLE ADDITIONAL BUILDING LOADS.

COLOR SCHEME SHALL BE MATCHED TO THE ADJACENT MUSEUM
ACROSS THE STREET; WHITE SIDING WITH DARK GREEN TRIM.
SUN WINDOWS SHALL BE POWDER COATED GREEN (DARK GREEN)
YK203U.
TRIM SHALL BE COLOR MATCHED TO WINDOW TRIM COLOR.
SIDING SHALL BE WHITE FROM DIAMOND KOTE.
FAUX UPPER WINDOW "GLASS" SHALL BE COLOR GRAPHITE (1603)
FROM BENJAMIN MOORE IN A GLOSS FINISH.





5/1/25

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DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

DATE	BY	REVISION

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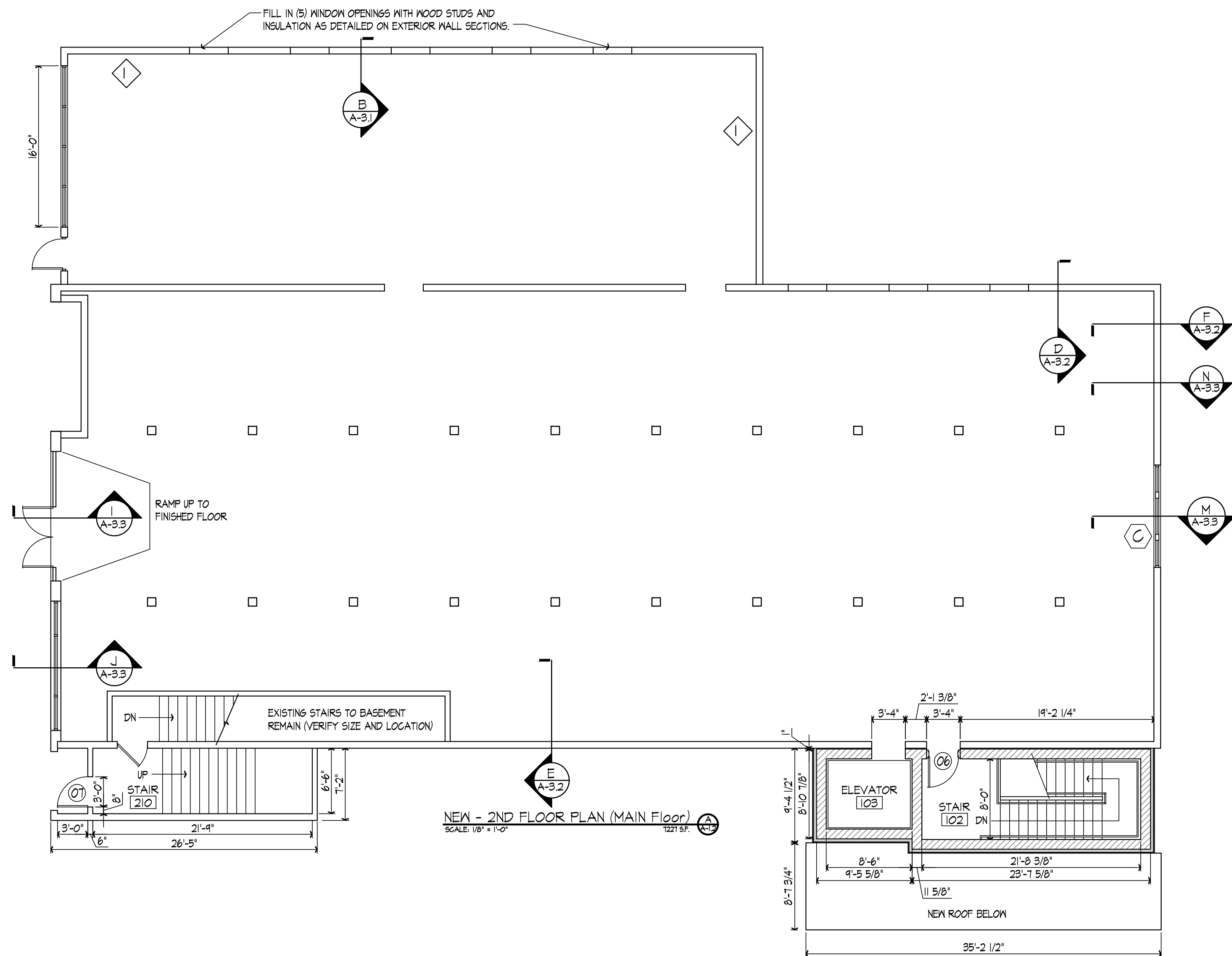
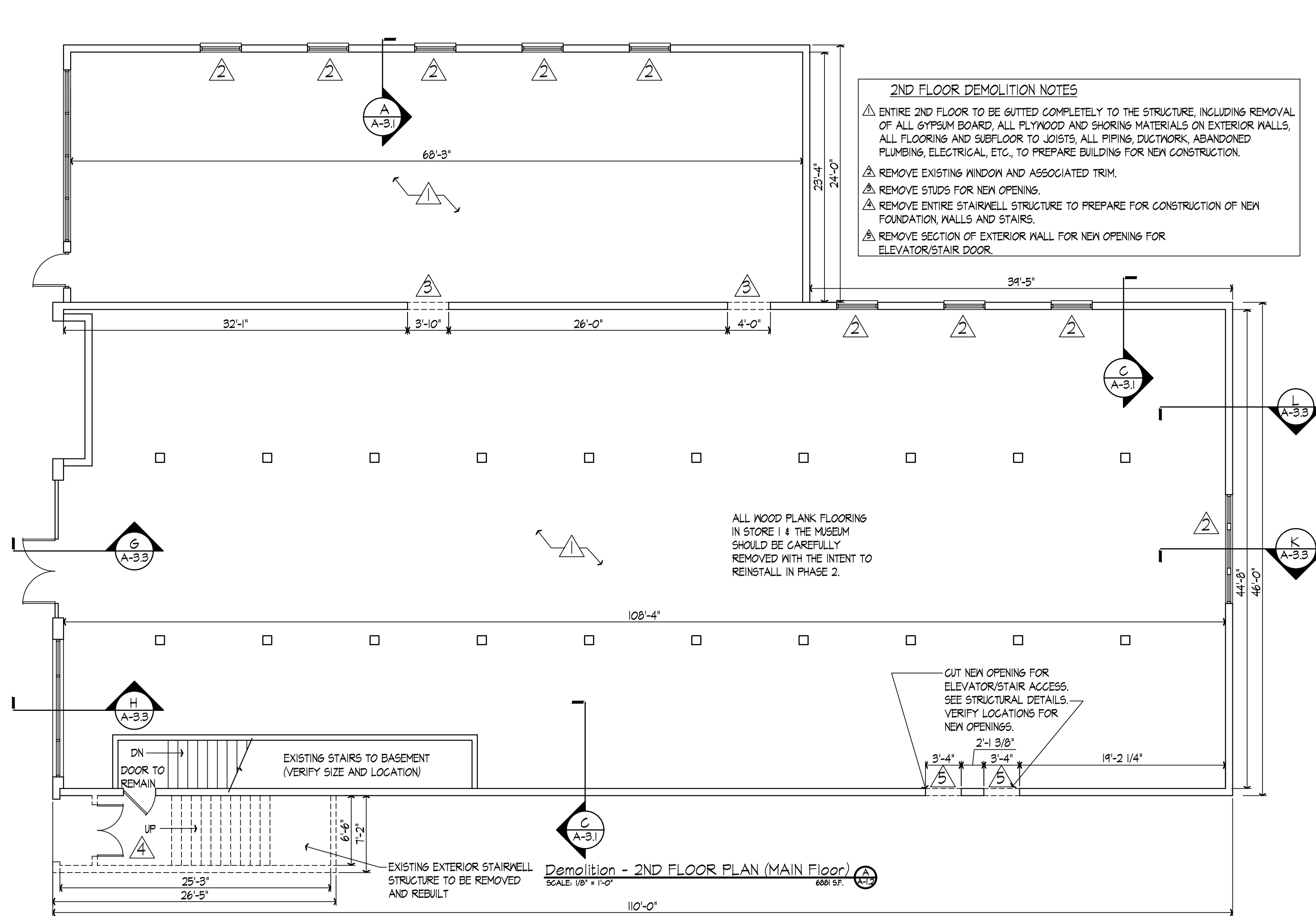
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REVIEWED BY	DATE MARCH 2025
SCALE AS NOTED	

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DATE REVISION BY

PROJECT NO. 2124-07

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REVIEWED BY

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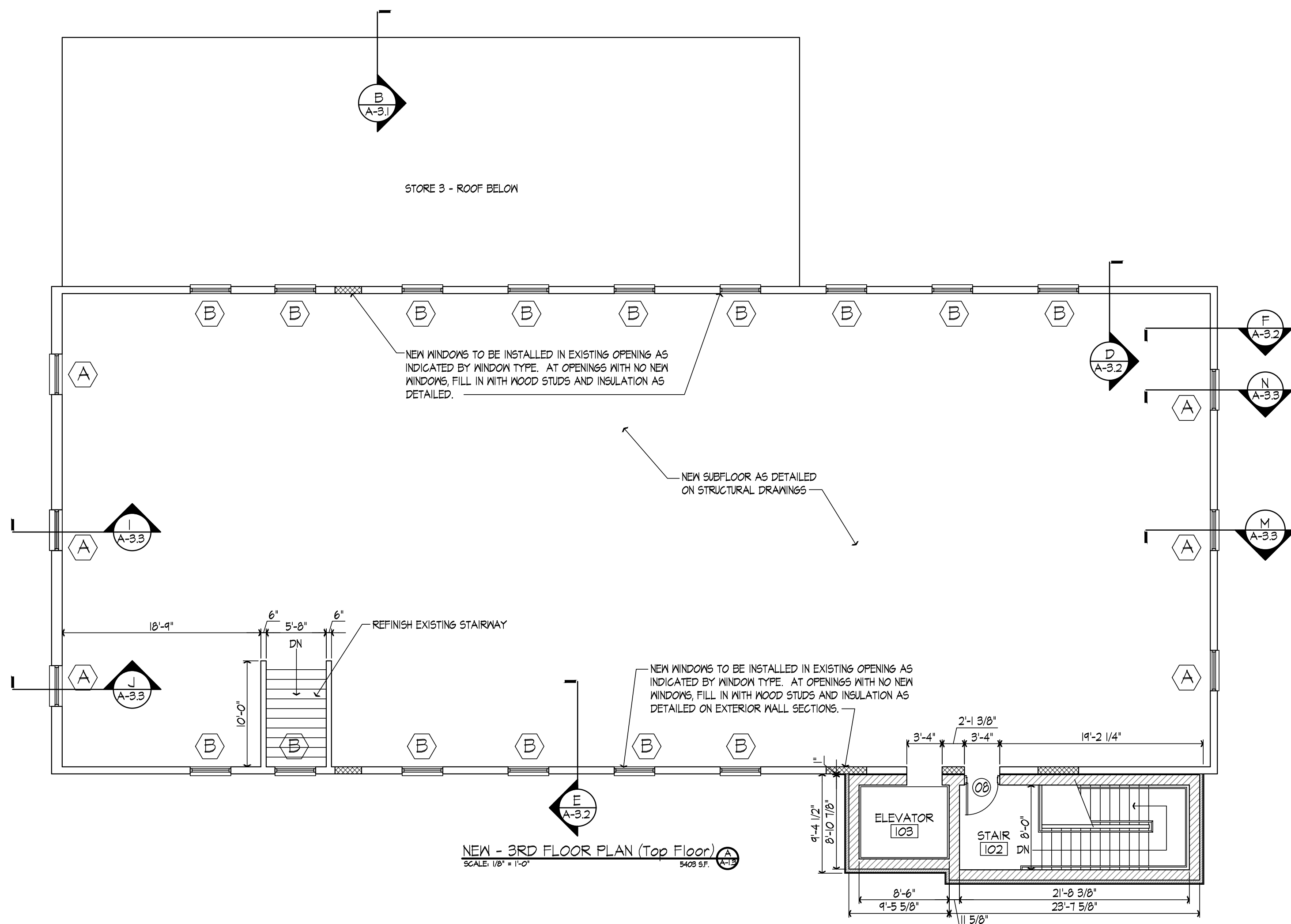
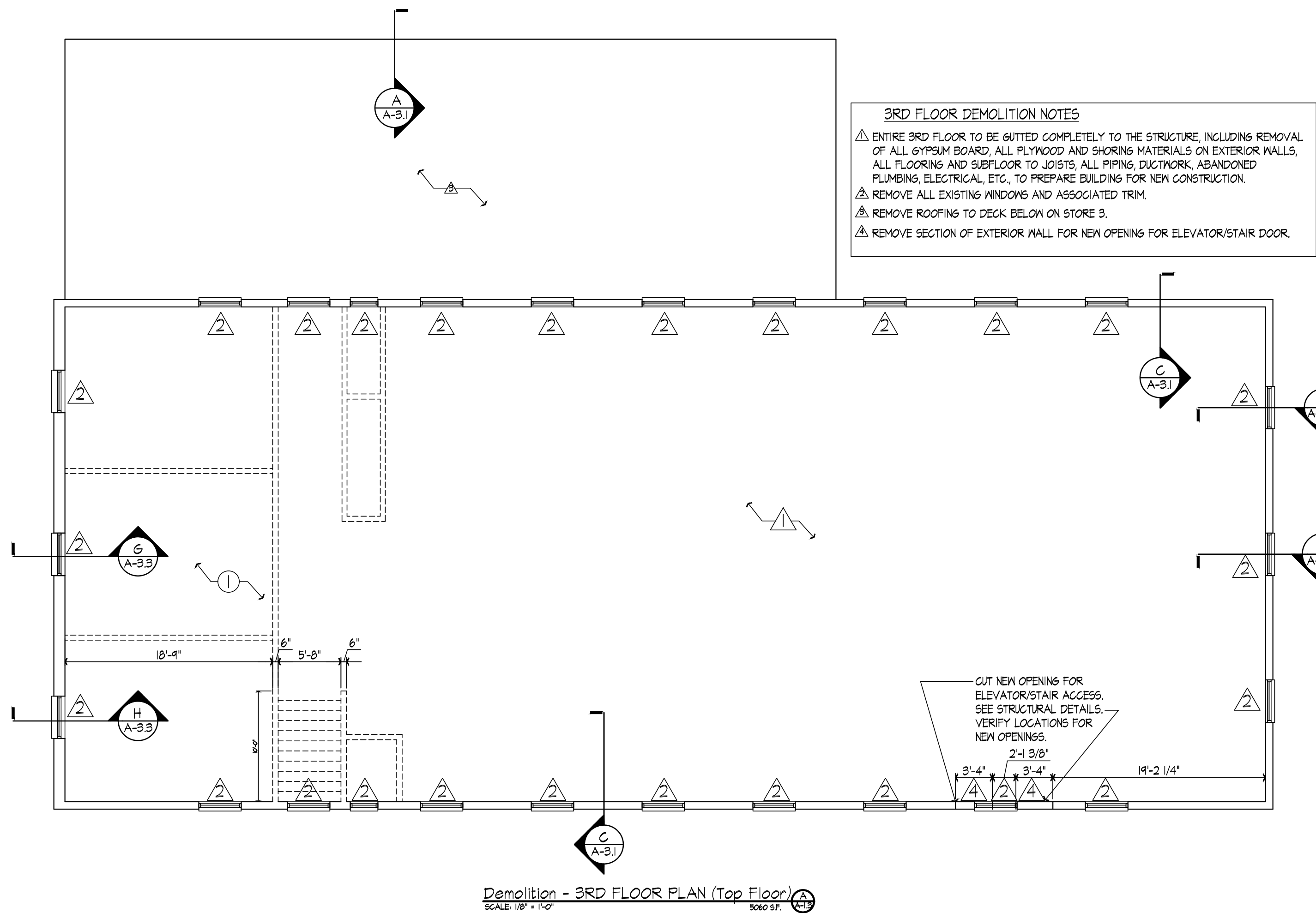
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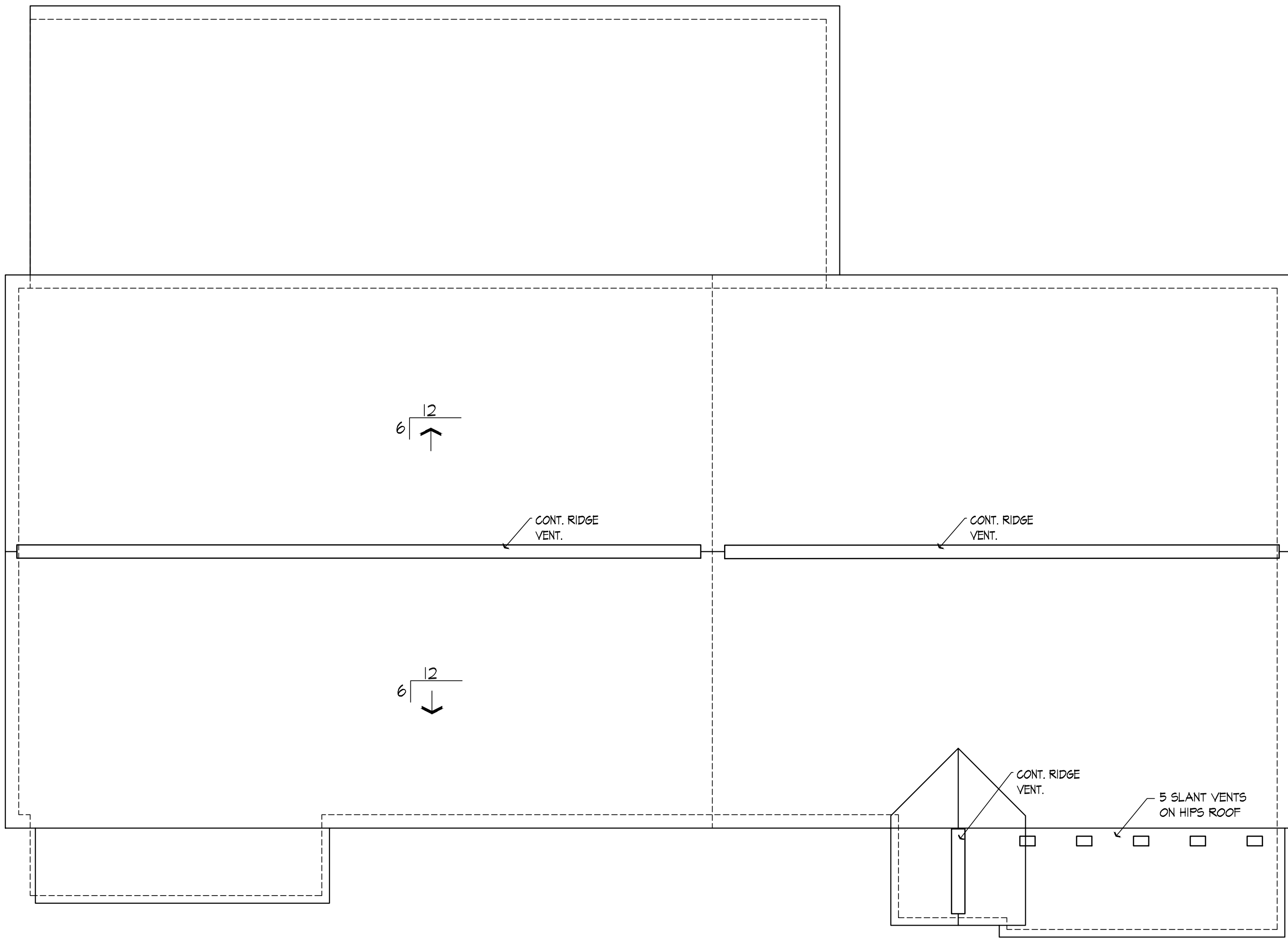
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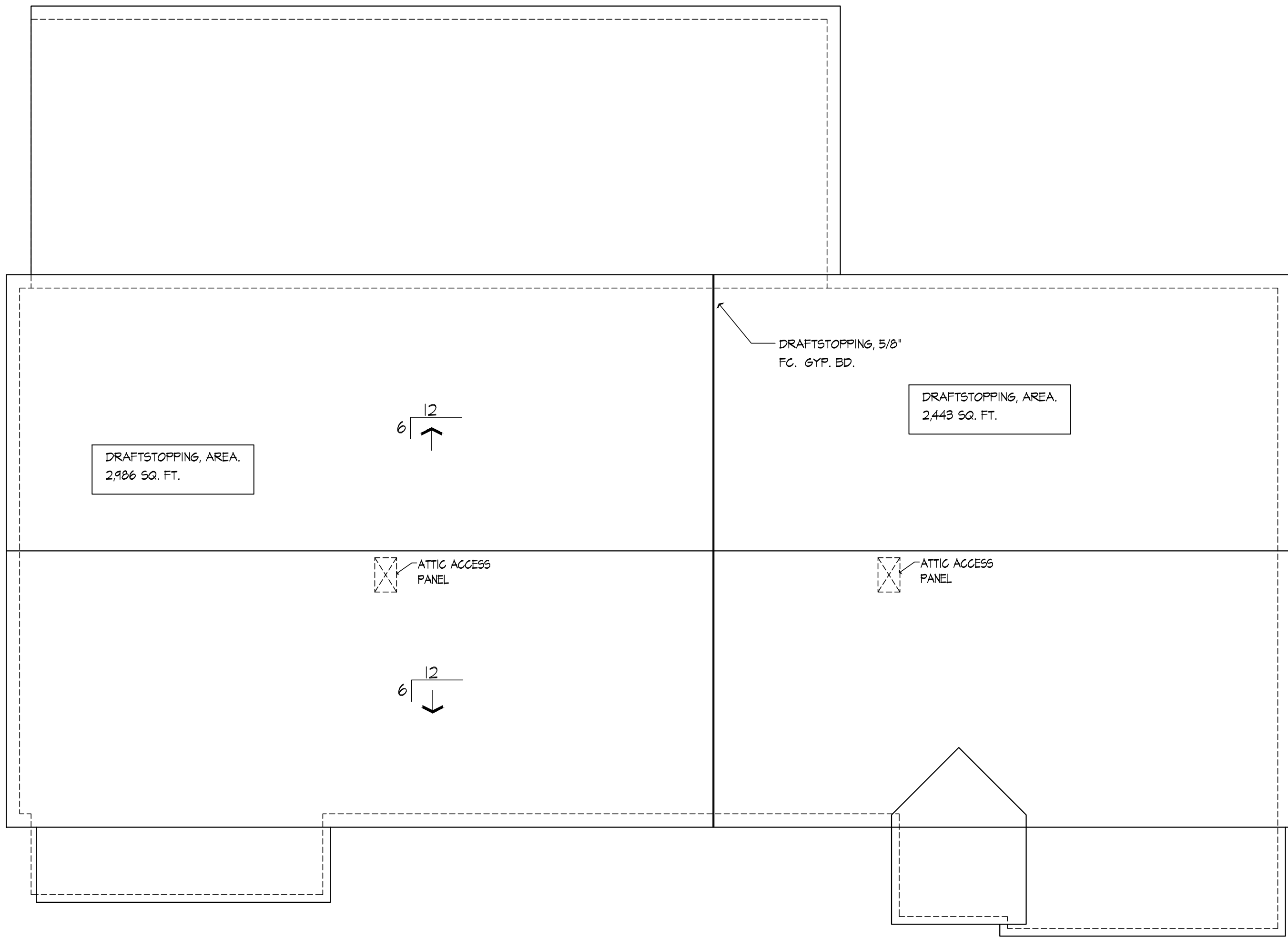




ROOF PLAN
SCALE: 1/8" = 1' - 0"



STOP VENT 12" FROM
END OF RIDGE AND 12"
ON EACH SIDE OF
DRAFTSTOPPING, TYP.



ATTIC DRAFTSTOPPING PLAN
SCALE: 1/8" = 1' - 0"



STOP VENT 12" FROM
END OF RIDGE AND 12"
ON EACH SIDE OF
DRAFTSTOPPING, TYP.



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STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY**

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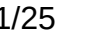
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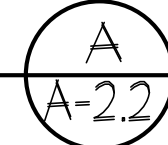
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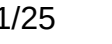
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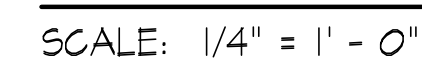
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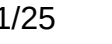


A
A-2.3

ADJUST GRADE OF SITE TO
ACCOMMODATE NEW CONSTRUCTION.



SIDING, TRIM, & MOULDING TO BE REPLACED WITH FACTORY FINISHED DIAMOND KOTE SIDING & AZEK TRIM, MOULDING, & FASCIA.



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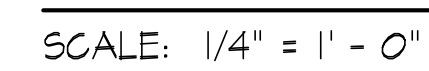
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REMOVE ALL EXISTING WINDOWS, POPLAR SIDING AND ASSOCIATED TRIM & HARDWARE. REFER TO NEW FLOOR PLAN FOR WINDOWS TO BE REPLACED AND OPENINGS TO BE FILLED IN.





HISTORIC STEARNS
DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

DATE	BY	REVISION

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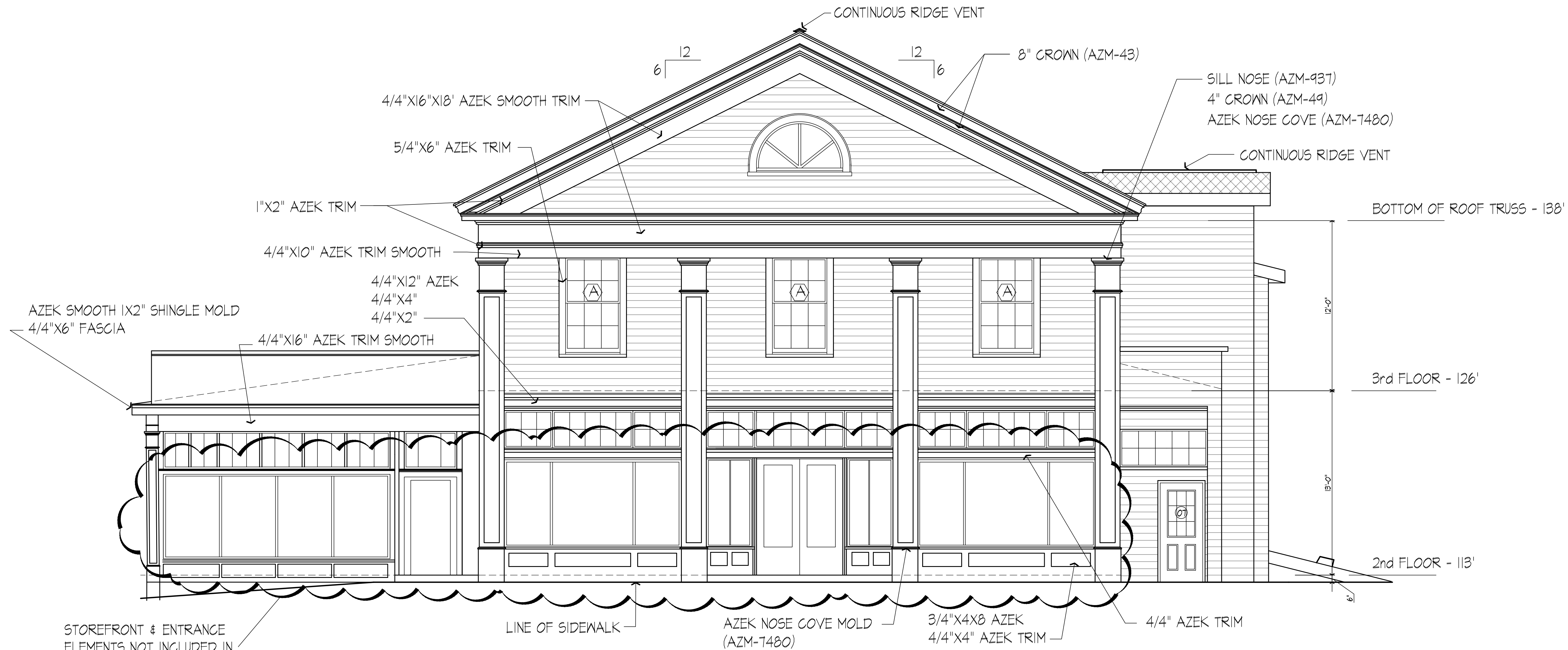
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NEW FRONT ELEVATION

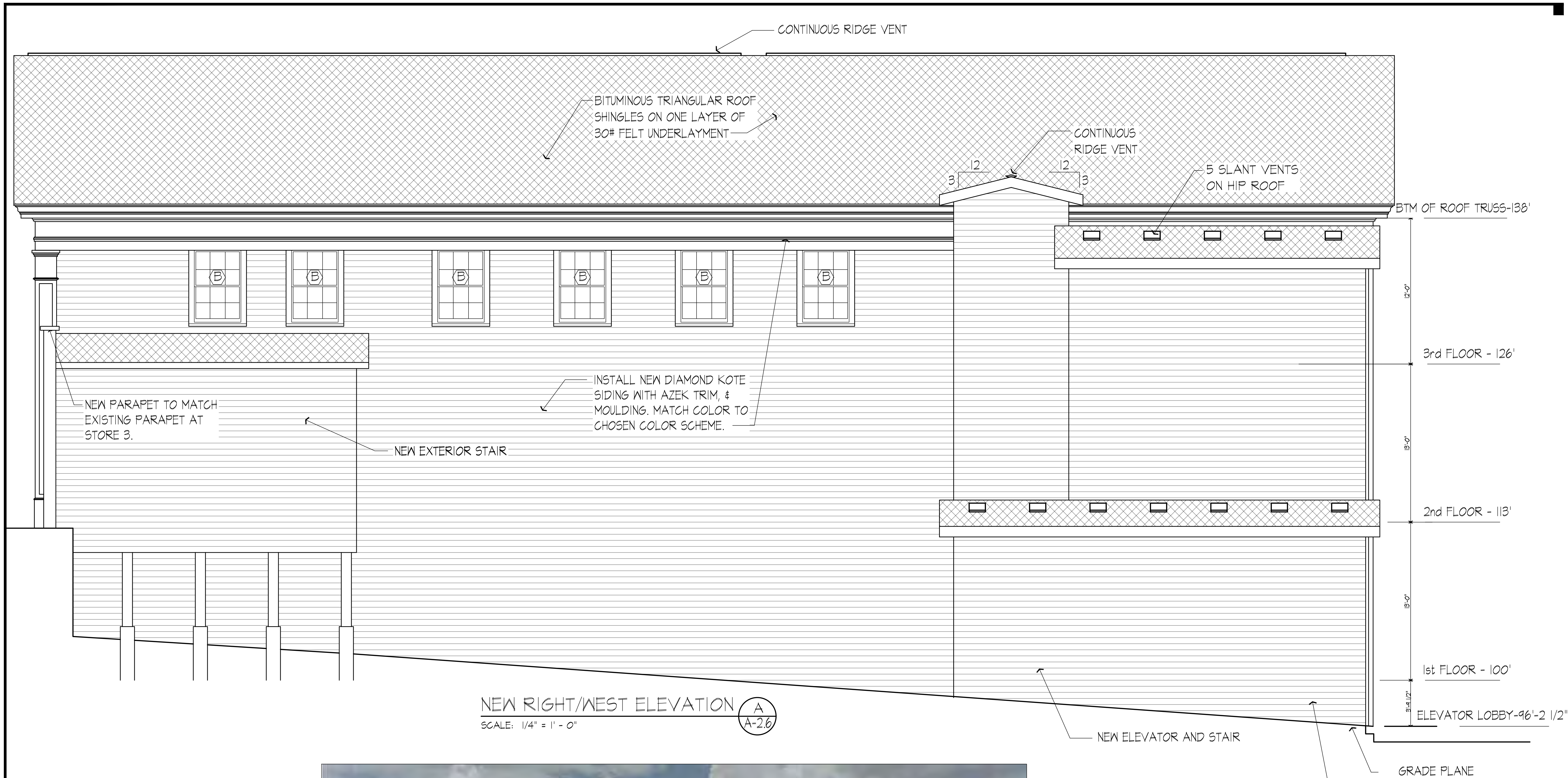
SCALE: 1/4" = 1' - 0"

A
A-2.5



INSTALL NEW WINDOWS
ACCORDING TO PLANS
AND SPECS.

EXISTING TRANSOM TO
REMAIN. INSTALL NEW UV
GLASS.

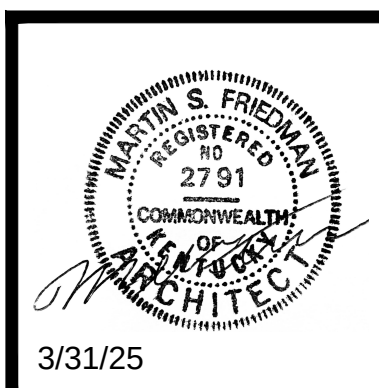


LEVEL TOP OF EXISTING EXTERIOR WALLS

WINDOWS TO BE REPLACED WITH DOUBLE HUNG SUN WINDOWS OF APPROPRIATE SIZE.



SIDING WILL STOP 8" ABOVE FINISHED GRADE.
EXPOSED CMU BLOCK IS TO BE SEALED. GRADE IS
TO BE STEPPED AS REQUIRED.



HISTORIC STEARN'S DOWNTOWN REVITALIZATION STORE 1 & 3 RENOVATION STEARNS, KENTUCKY

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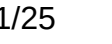
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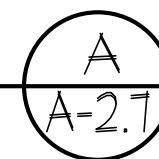
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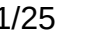
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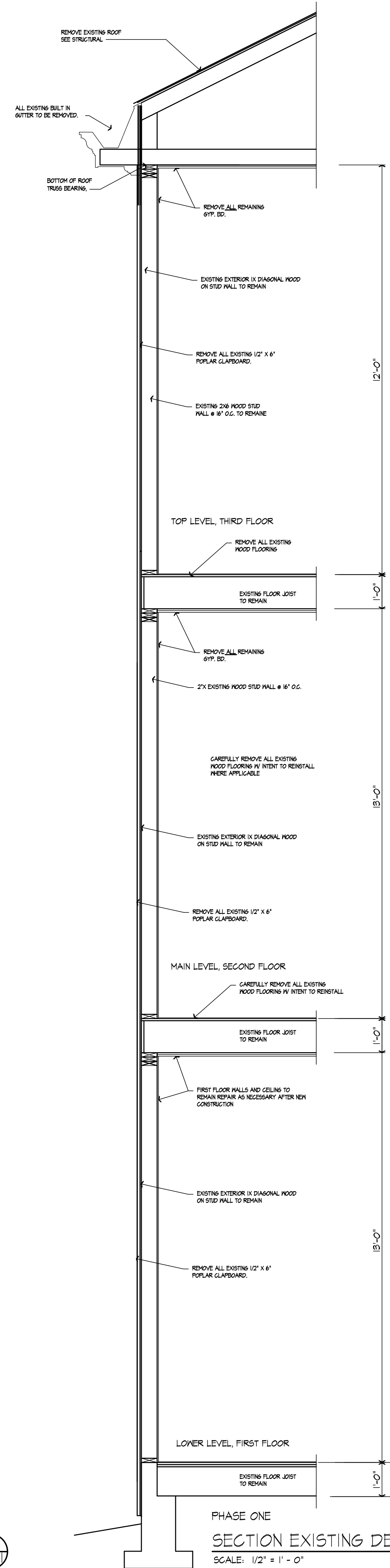
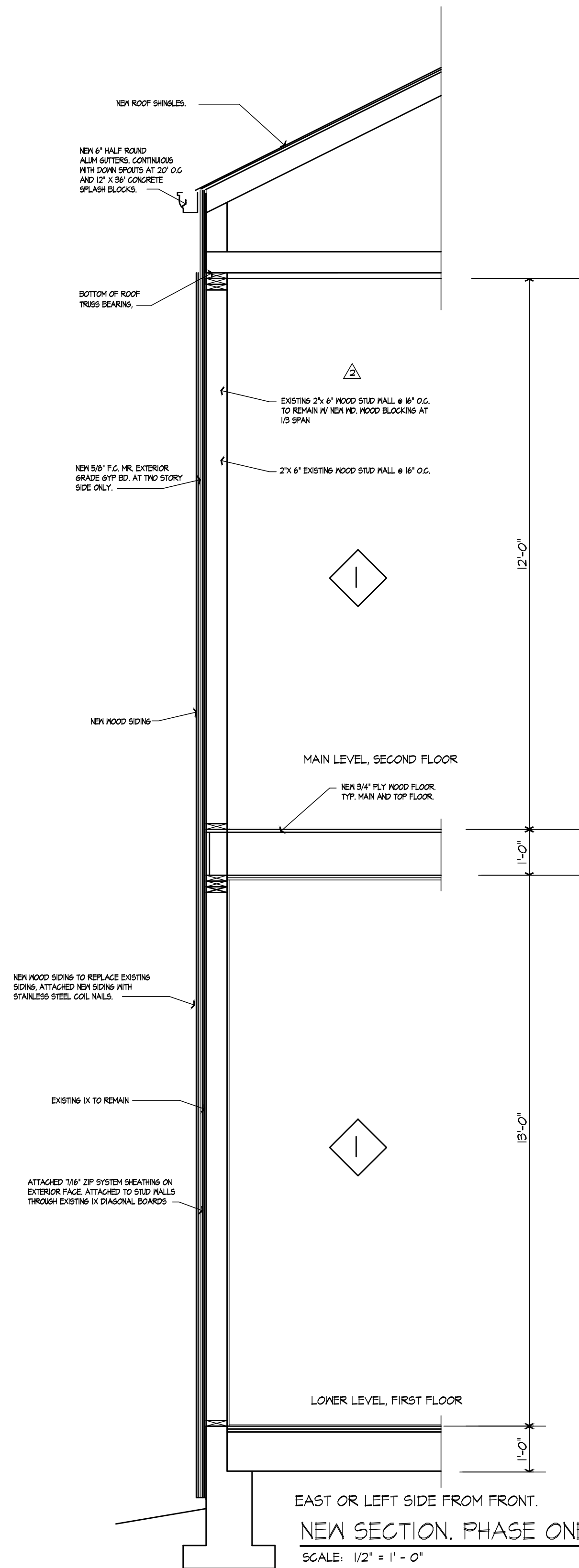
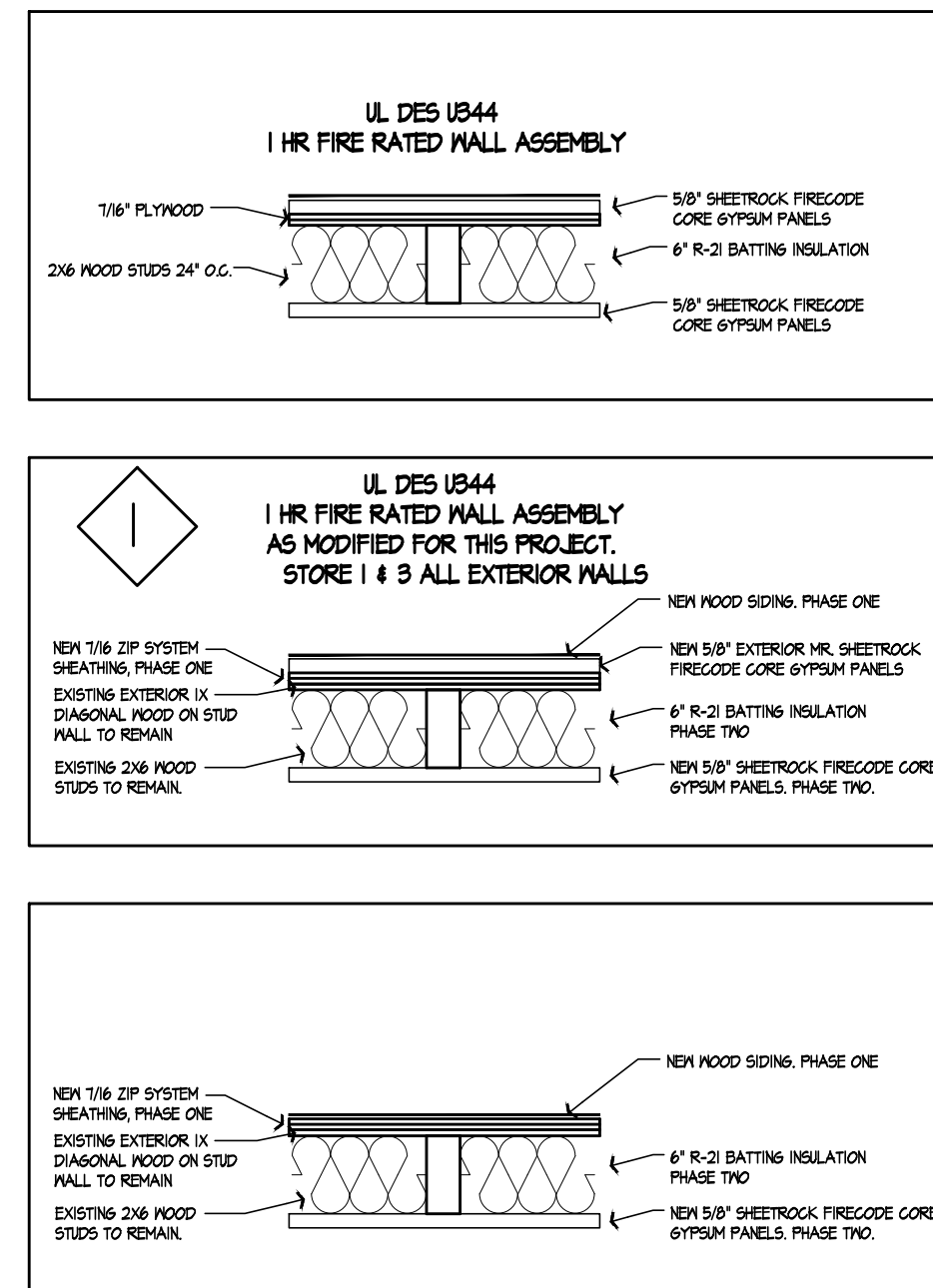
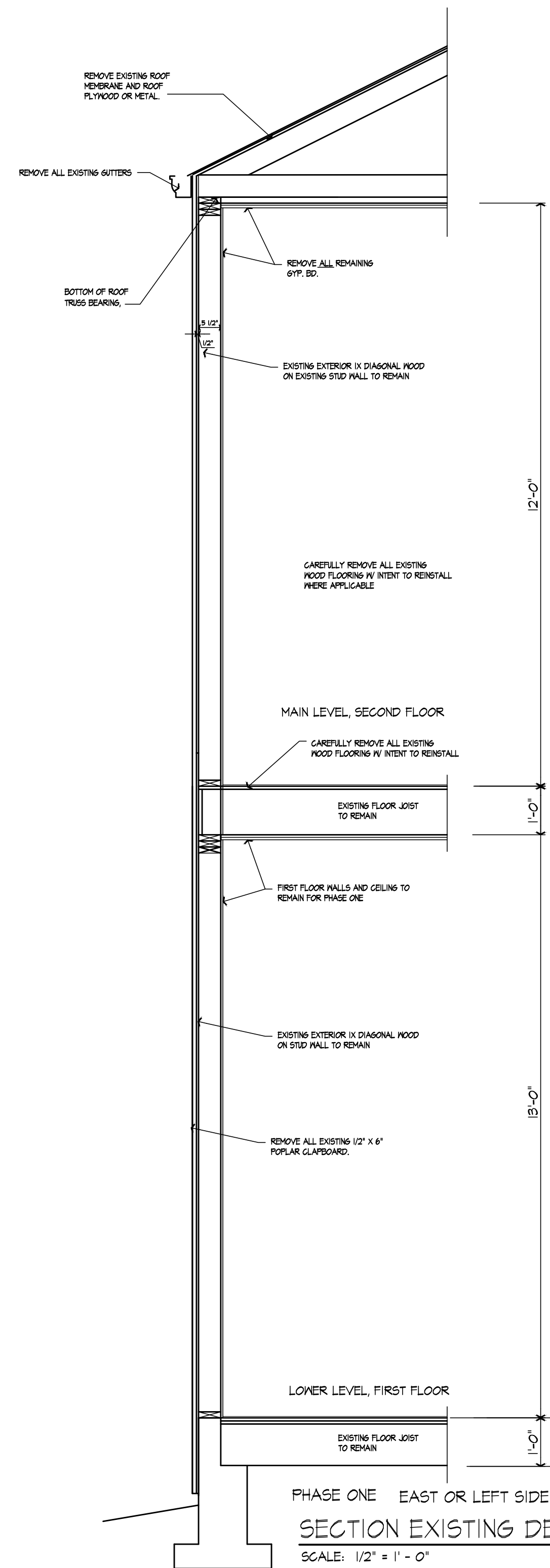
A-2.8

SHEET OF



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





ALL WOOD PLANK FLOORING IN STORE 1 &
THE MUSEUM SHOULD BE CAREFULLY
REMOVED WITH THE INTENT TO REINSTALL IN
PHASE 2.

HISTORIC STEARNS
DOWNTOWN REVITALIZATION
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STEARNS, KENTUCKY

DATE	BY	REVISION

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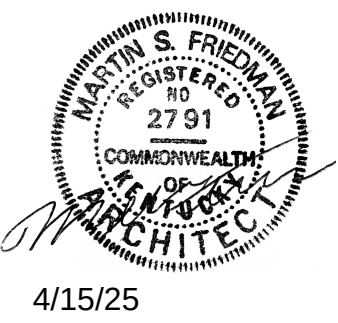
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	DRAWN BY: MSF
	CHECKED BY:
	REVIEWED BY:
	DATE: APRIL 2025
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REVIEWED BY	DATE APRIL 2025
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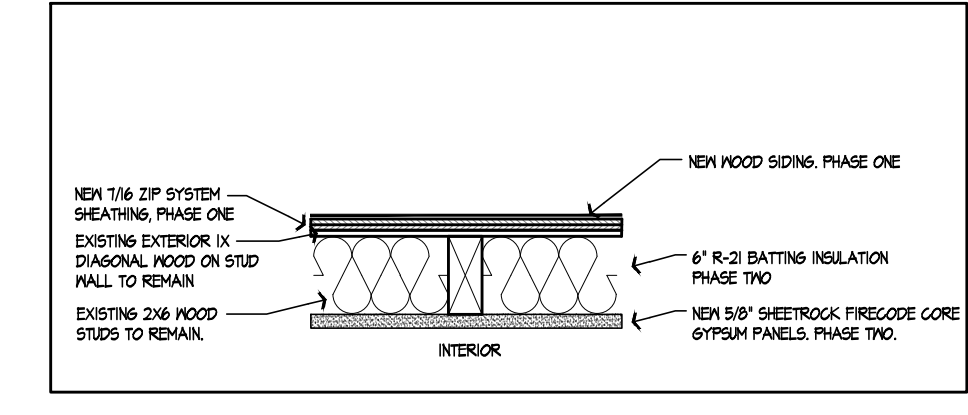
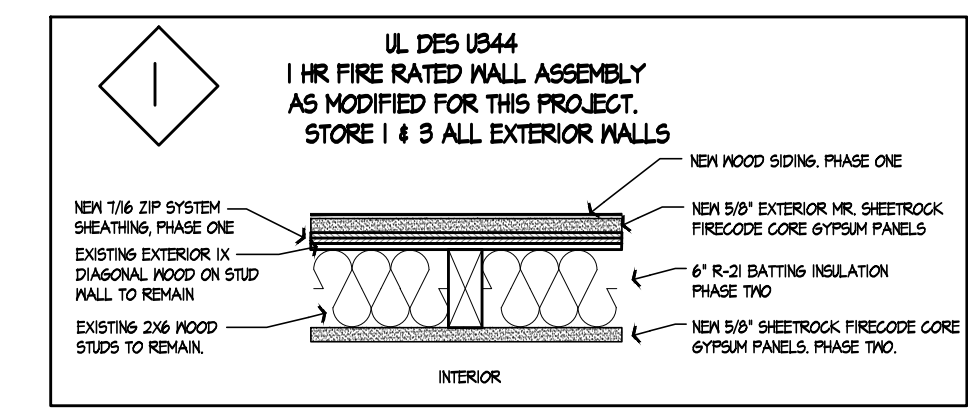
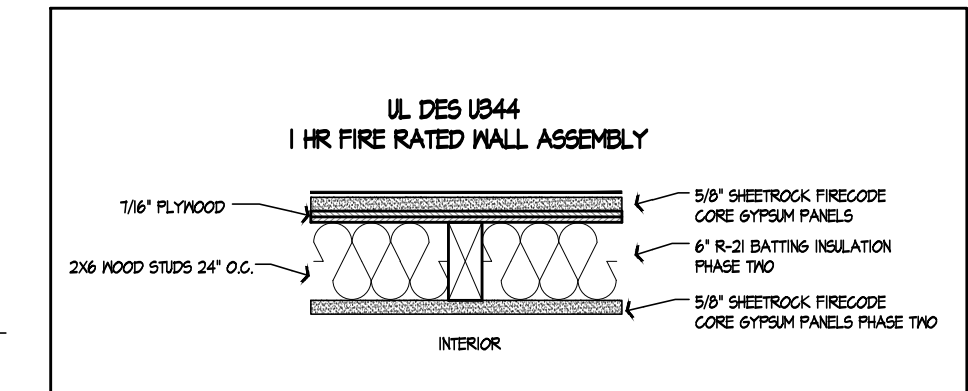
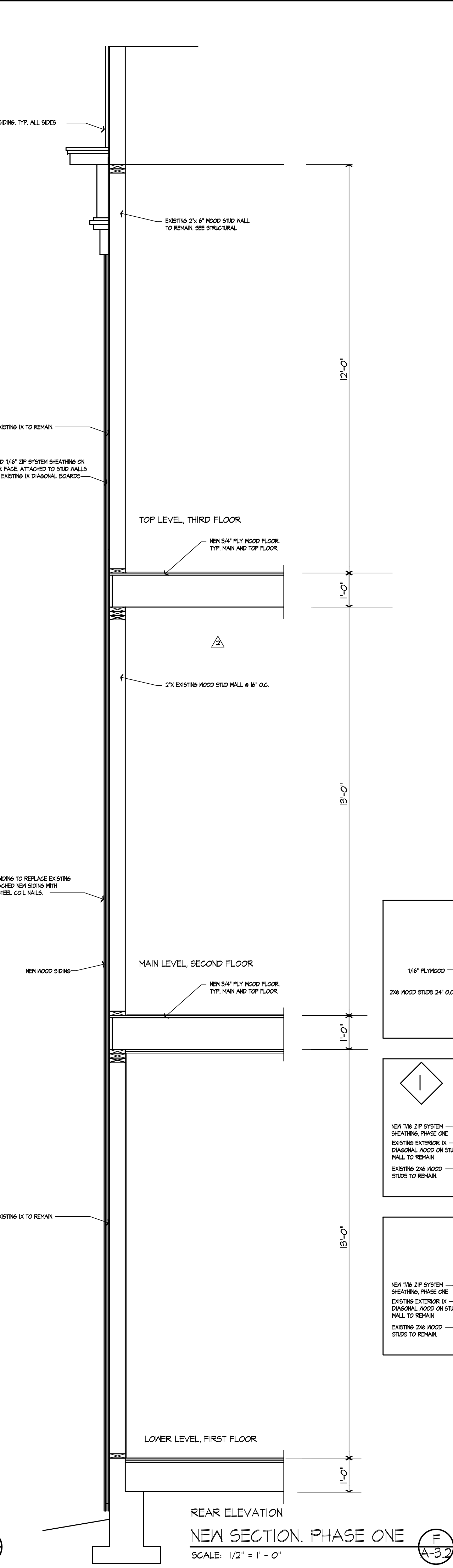
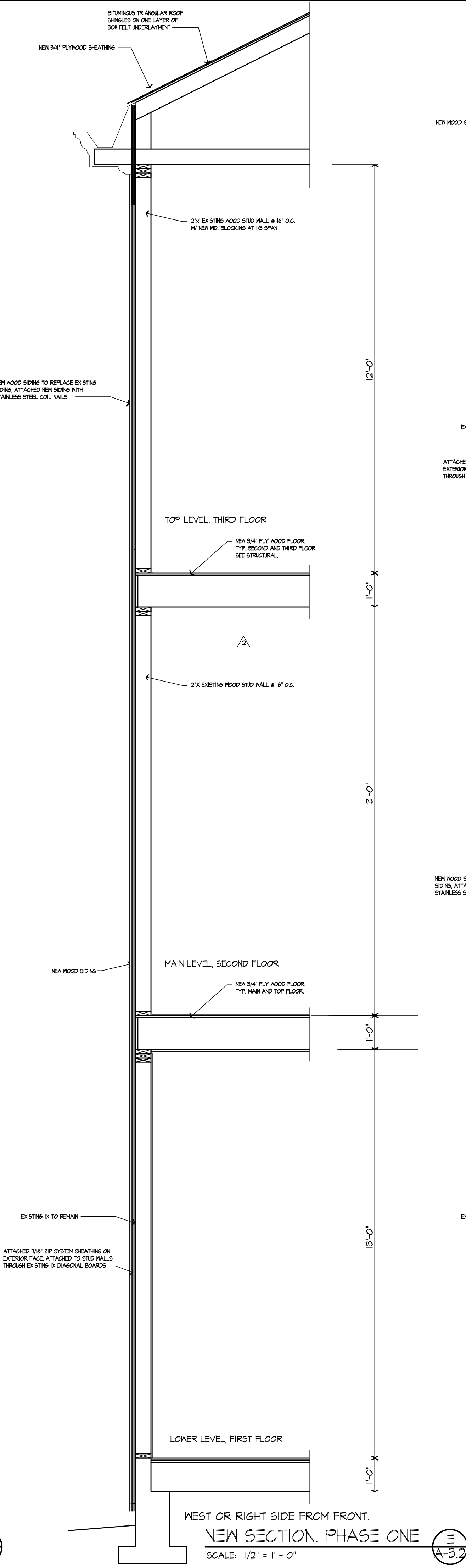
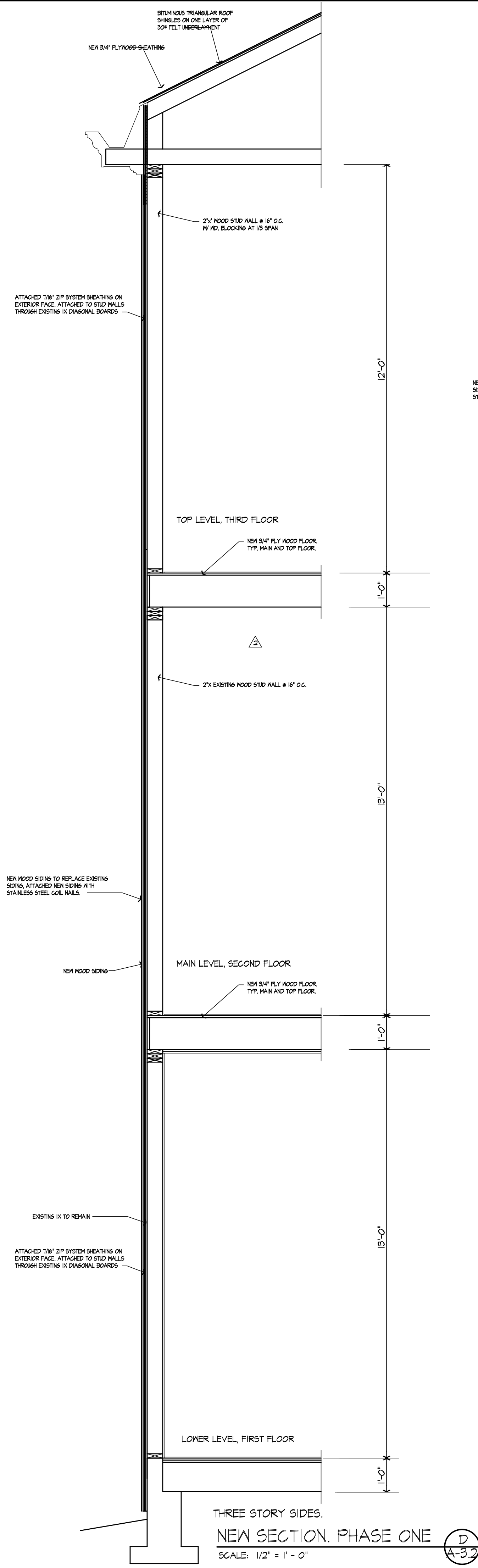
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STEARNS, KENTUCKY**

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PROJECT NO. 2124-07	DESIGNED BY BLL/MGF
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REVIEWED BY	DATE APRIL 2025
SCALE AS NOTED	

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Architects
Planners**

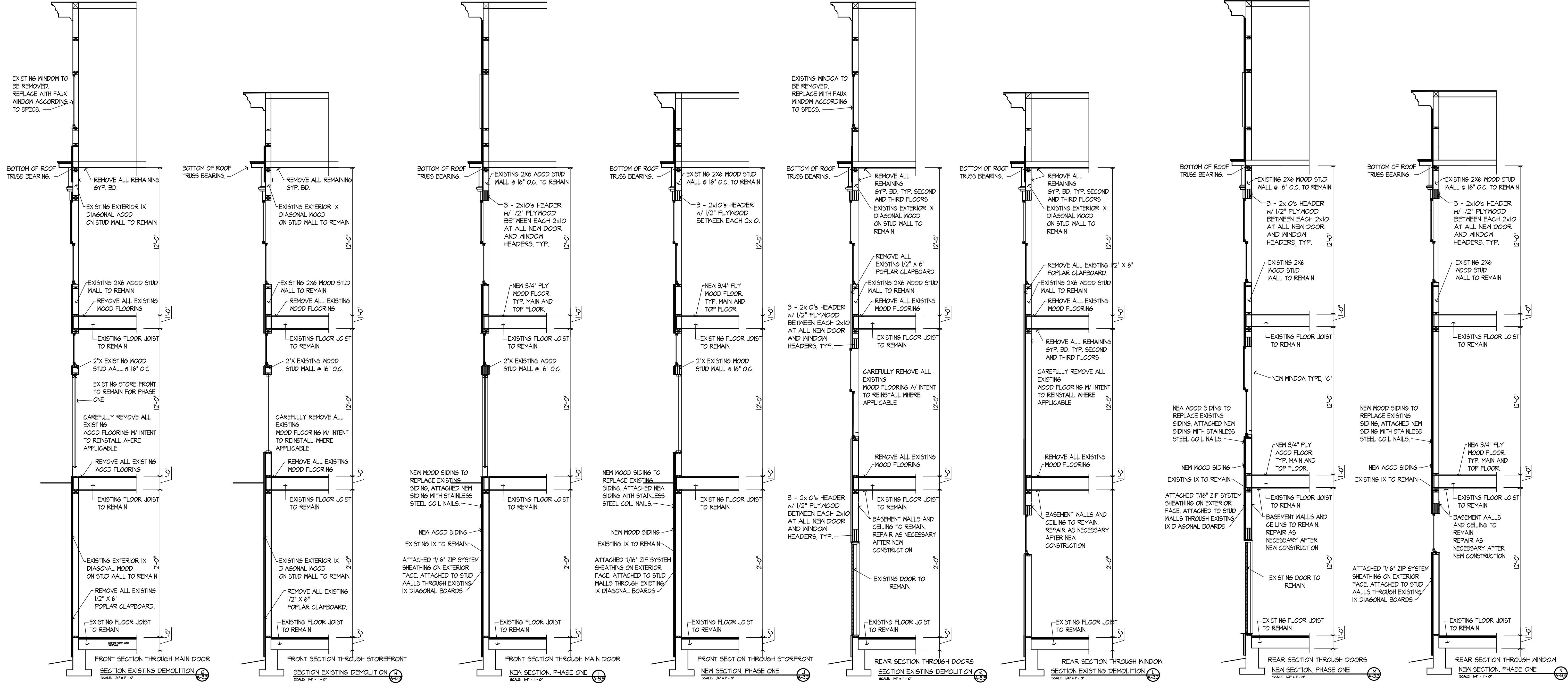
mse
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624 Wellington Way
Lexington, KY 40503
Phone: (606) 223-8684
Fax: (606) 223-2607
www.mseinc.com

DRAWING NO.

A-3.3

SHEET OF





4/15/25

**HISTORIC STEARNS
DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY**

DATE	BY	REVISION

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DATE MARCH 2025	SCALE AS NOTED

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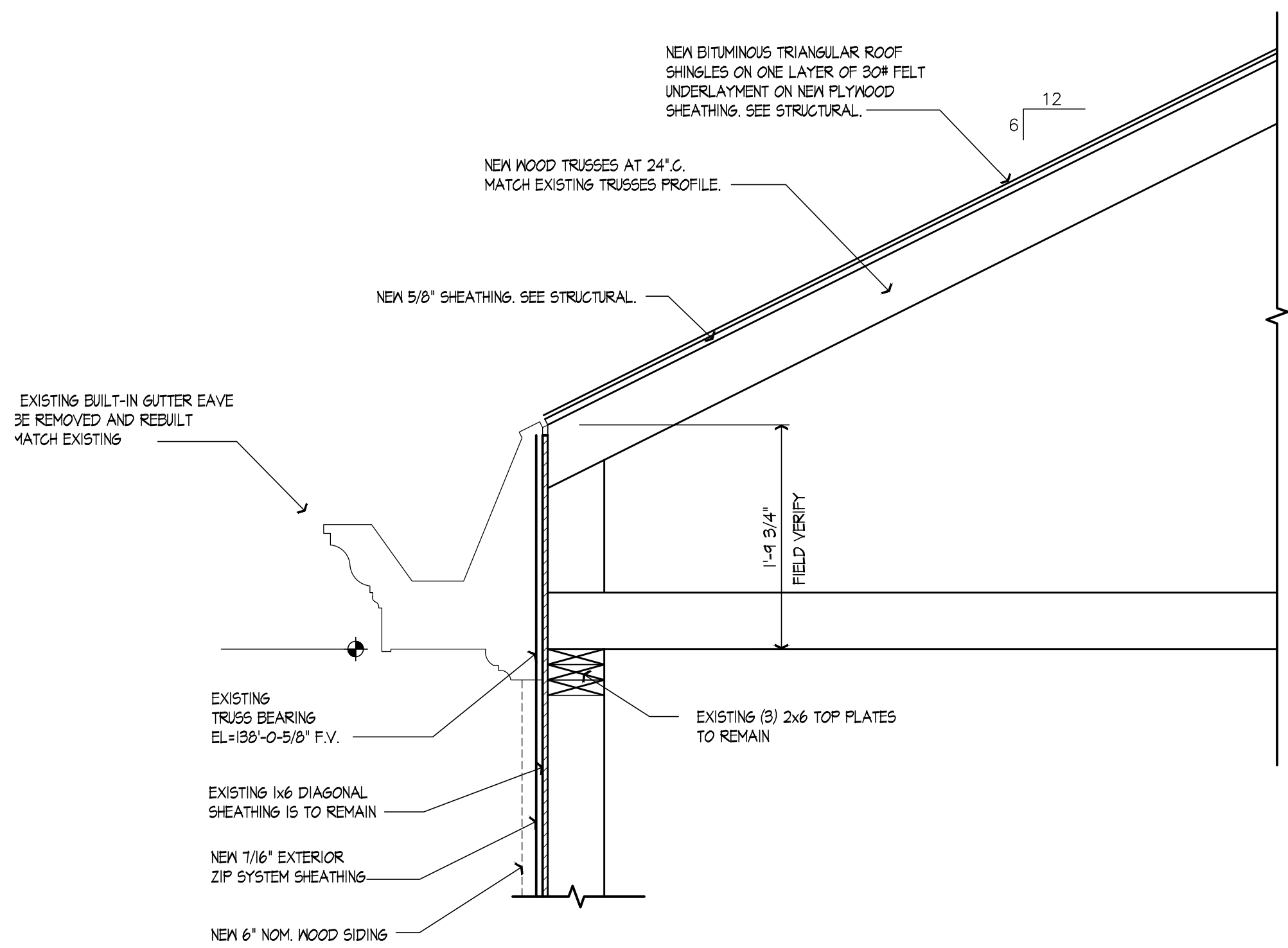
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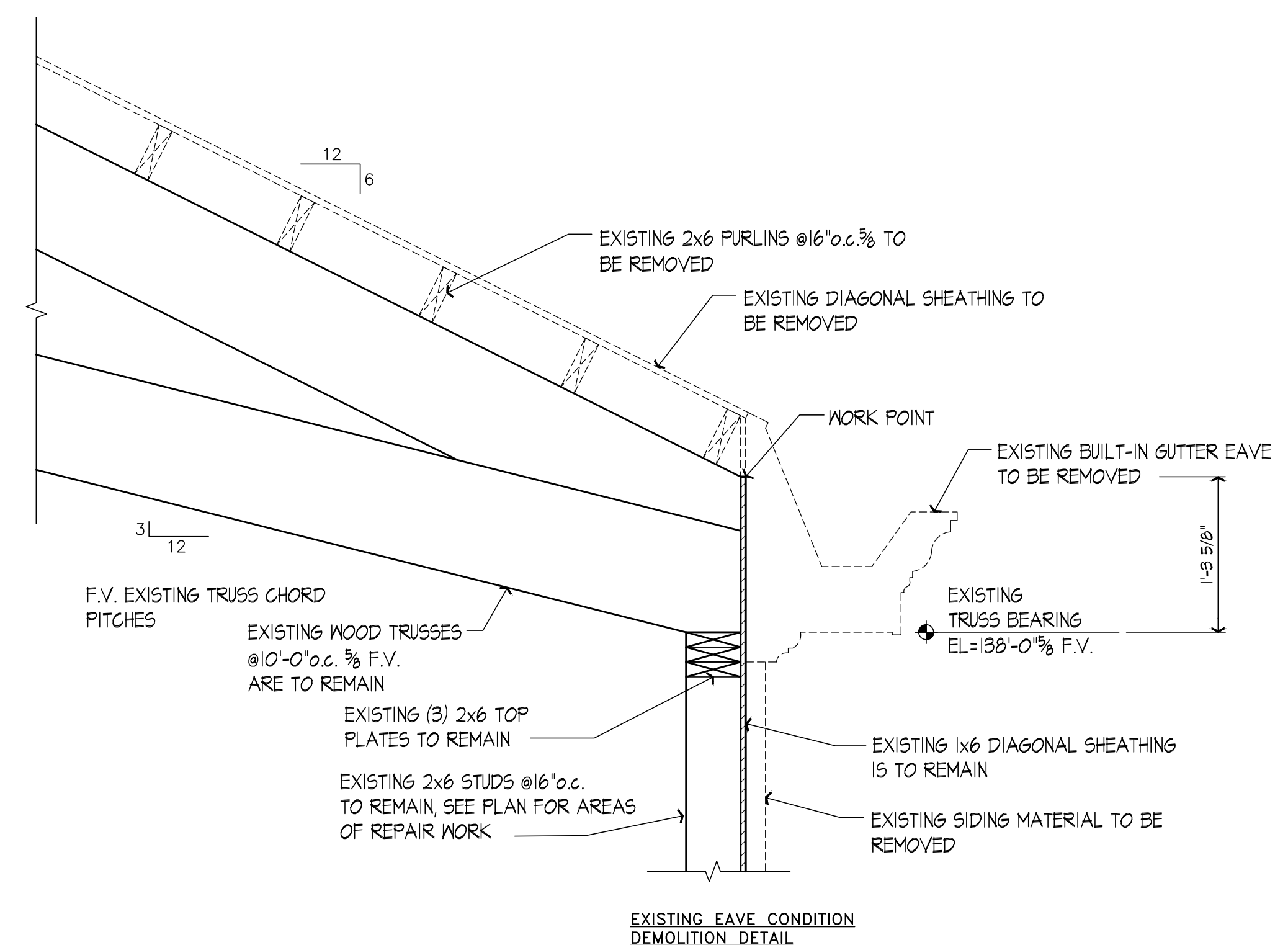
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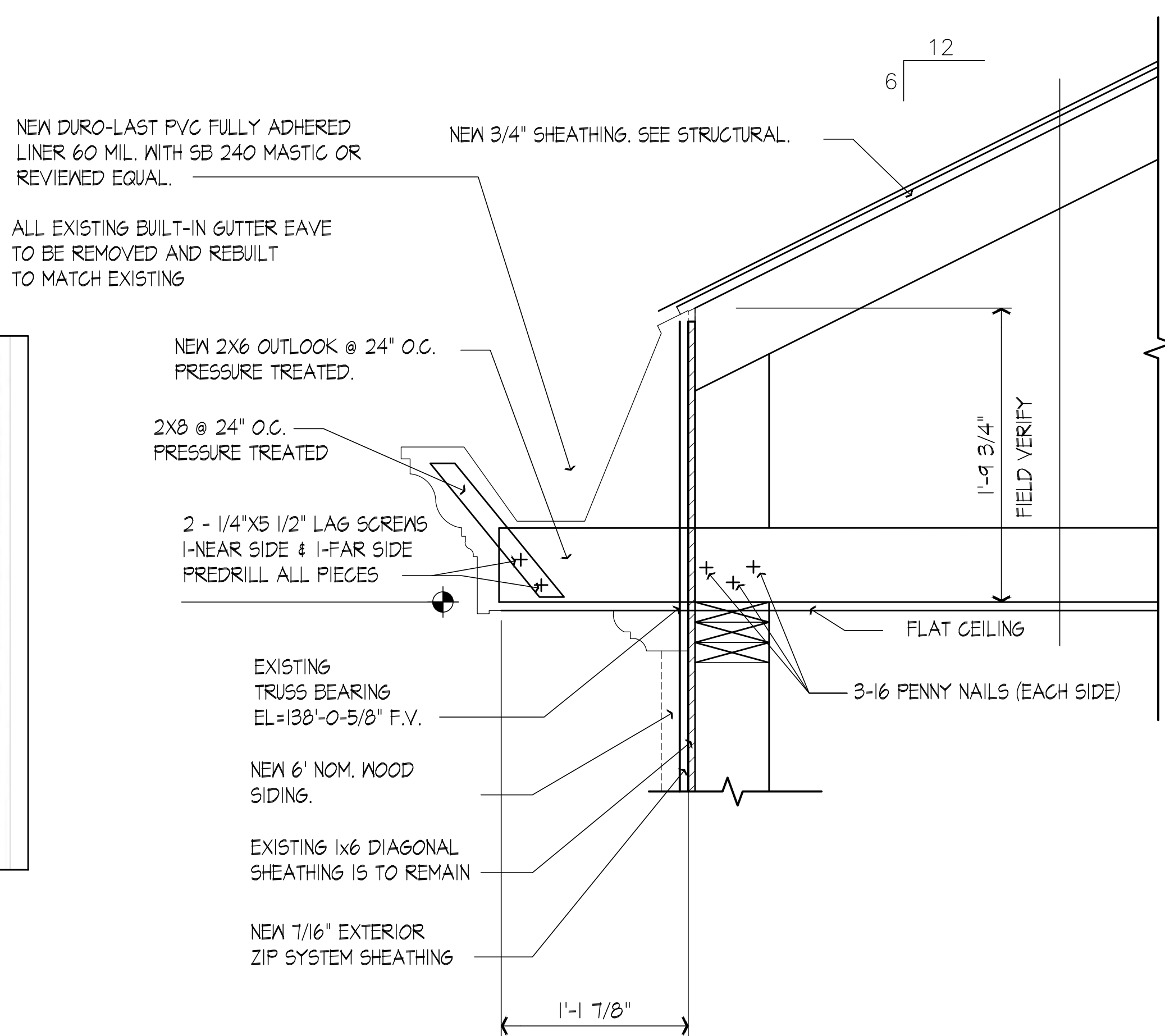
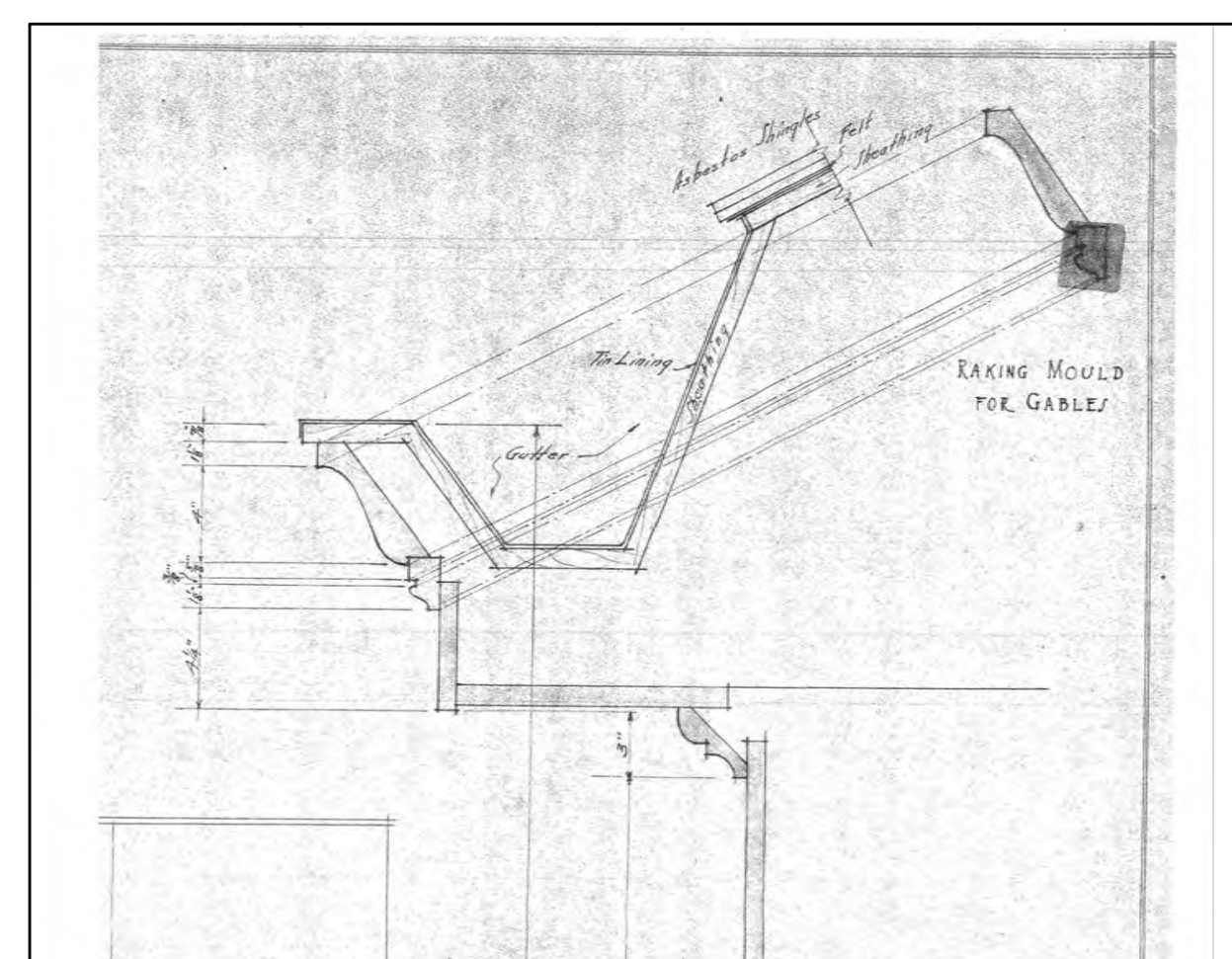
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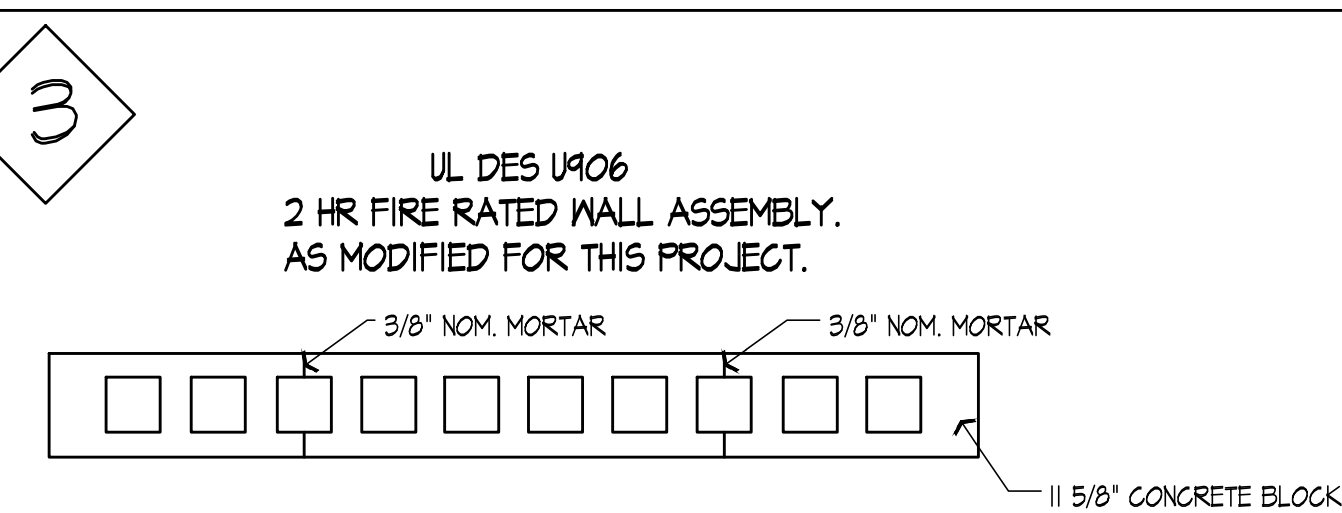
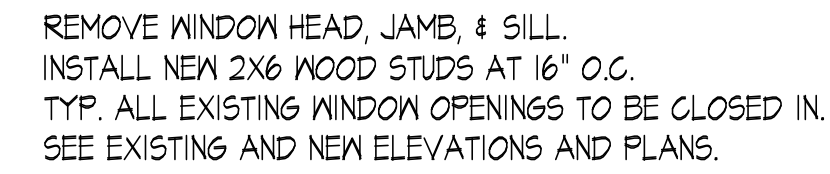
EXISTING EAVE CONDITION DETAIL **A**
SCALE: 1" = 1' - 0"



EXISTING EAVE CONDITION DETAIL **C**
SCALE: 1" = 1' - 0"



NEW EAVE CONDITION DETAIL **B**
SCALE: 1-1/2" = 1' - 0"



PROJECT NO. 2124-07		DESIGNED BY MSF		DATE		REVISION		BY	
DRAWN BY ATR/MSF		CHECKED BY		DATE					
REVIEWED BY				DATE					
SCALE		AS NOTED		DATE					

DESIGN DOCUMENTS

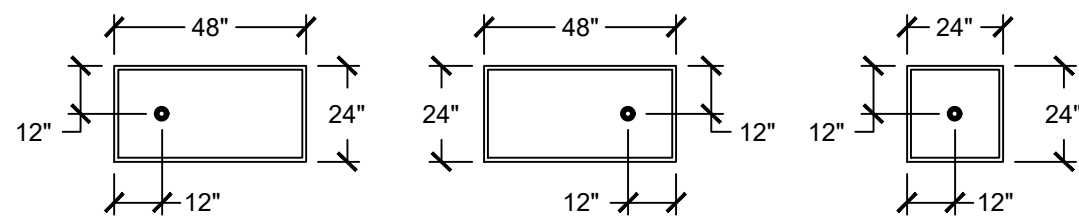
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	FP	NEW FIRE PROTECTION PIPING AND/OR EQUIPMENT
		ELBOW UP, DOWN
		TEE UP, DOWN
		VALVE IN HORIZ AND VERTICAL PIPING
	TS	TAMPER SWITCH ON VALVE: HORIZ/VERT
	FS	FLOW SWITCH IN PIPING: HORIZ/VERT

SUMMARY A. THIS SECTION COVERS THE COMPLETE INSTALLATION OF WET FIRE PROTECTION SPRINKLER SYSTEMS. B. PROVIDE ALL ITEMS, MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY AND REQUIRED FOR COMPLETION OF WORK. C. CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS AND COORDINATE COMPLETE SYSTEM REQUIREMENTS AND LAYOUT WITH ARCHITECTURAL FLOOR PLANS AND REFLECTED CEILING PLANS. D. DESIGN DRAWINGS FOR THIS PROJECT SHOW THE GENERAL AREA WHERE FIRE PROTECTION SYSTEM WORK IS REQUIRED. ANY ADDITIONAL SYSTEM COMPONENTS OR SPRINKLER HEADS THAT MAY BE REQUIRED TO MEET ALL NFPA 13 AND NFPA 409 REQUIREMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY AREAS NOT SHOWN TO BE SPRINKLED BUT REQUIRED TO BE SPRINKLED BY NFPA 13 OR NFPA 409 REQUIREMENTS SHALL BE SPRINKLED BY THE CONTRACTOR AND INCLUDE ANY AND ALL EQUIPMENT REQUIRED. E. CONTRACTOR SHALL SUBMIT DESIGN DRAWINGS AND CALCULATIONS TO ENGINEER FOR APPROVAL PRIOR TO SUBMISSION TO HBC.	FIXTURES, HVAC EQUIPMENT AND DEVICES, AND PARTITION ASSEMBLIES. 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE BUILDING AND THE DRAWINGS, CONFIRMING ALL DIMENSIONS BEFORE ANY PIPE IS CUT, TO DETERMINE IF ANY OFFSETS, ETC., ARE NECESSARY. WHERE ADDITIONAL OFFSETS ARE REQUIRED, THEY SHALL BE MADE WITHOUT ANY ADDITIONAL TO THE ORIGINAL DIMENSIONS.
WORK INCLUDED A. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATIONS CONSISTS OF THE FURNISHING OF ALL MATERIALS, LABOR, EQUIPMENT AND APPURTENANCES AND THE PERFORMANCE OF ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEMS.	B. PIPING STANDARD: COMPLY WITH NFPA 13 REQUIREMENTS FOR INSTALLATION OF SPRINKLER PIPING. SPRINKLER INSTALLATION A. ALL HEADS MUST "LINE UP" AND WORK IN WITH THE CEILING PATTERN OF THE LIGHTS AND HVAC EQUIPMENT. ALL HEADS LOCATED IN LAY-IN CEILING TILE SHALL BE CENTERED ALONG THE CENTERLINE OF THE TILE. HEADS MAY BE LOCATED AT THE CENTER OF THE QUARTER POLE OF THE TILE. AVOID DUCTS, LIGHTS, HANGERS, ETC. INSTALL DRY-TYPE SPRINKLERS WITH WATER SUPPLY FROM HEATED SPACE. DO NOT INSTALL PENDENT OR SIDEWALL, WET-TYPE SPRINKLERS IN AREAS SUBJECT TO FREEZING. B. INSTALL SPRINKLERS INTO FLEXIBLE, SPRINKLER HOSE FITTINGS, AND INSTALL HOSE INTO BRACKET ON CEILING GRID. CLEANING A. CLEAN DIRT AND DEBRIS FROM SPRINKLERS. B. ONLY SPRINKLERS WITH THEIR ORIGINAL FACTORY FINISH ARE ACCEPTABLE. REMOVE AND REPLACE ANY SPRINKLERS THAT ARE PAINTED OR HAVE ANY OTHER FINISH THAN THEIR ORIGINAL FACTORY FINISH.



HEAD TYPES

ALL FIRE SUPPRESSION AREAS TO BE QUICK RESPONSE:

SEMI-RECESSED TYPE SPRINKLER HEADS
IN ALL ROOMS WITH LAY-IN OR GYP CEILINGS

UPRIGHT SPRINKLER HEADS IN ALL ROOMS WITH EXPOSED CEILINGS

REFER TO ARCHITECTURAL CEILING PLANS.
COORDINATE SPRINKLER PIPING WITH DUCTWORK
DIFFUSERS, LIGHTING, STRUCTURAL AND ALL
OTHER TRADES PRIOR TO INSTALLATION

PROJECT SITE PLAN UNAVAILABLE TO DESIGN TEAM. NO FLOW TEST INFORMATION AVAILABLE. THE FIRE SUPPRESSION CONTRACTOR SHALL CONDUCT/OBTAIN THEIR OWN FLOW TEST FOR USE IN SHOP DRAWING / HYDRAULIC CALCULATIONS AND PROVIDE THE NECESSARY MEANS TO ENSURE ADEQUATE WATER AMOUNT/PRESSURE IS AVAILABLE FOR FULLY FUNCTIONAL FIRE PROTECTION SYSTEMS. THE FLOW TEST SHALL BE FULLY COORDINATED WITH THE OWNER AND UTILITY COMPANY.

McCREARY WATER DISTRICT
(MANAGER - STEPHEN WHITAKER) (606)-376-2540

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
FP-0.0	FIRE PROTECTION LEGEND & NOTES
FP-1.1	FIRE PROTECTION PLAN
FP-1.2	FIRE PROTECTION PLAN
FP-1.3	FIRE PROTECTION PLAN



EPPERSON ENGINEERING

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STEARNS, KENTUCKY

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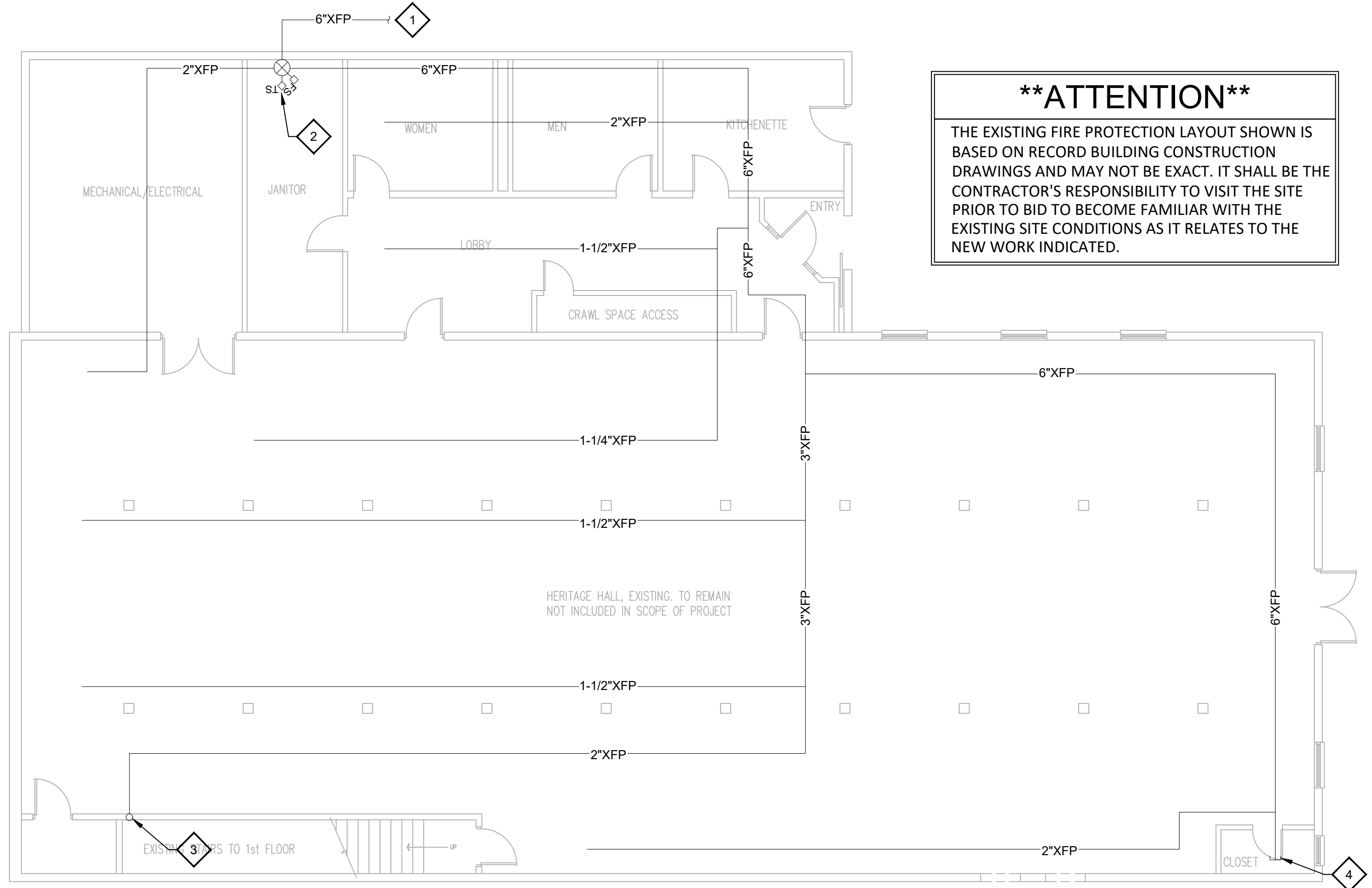
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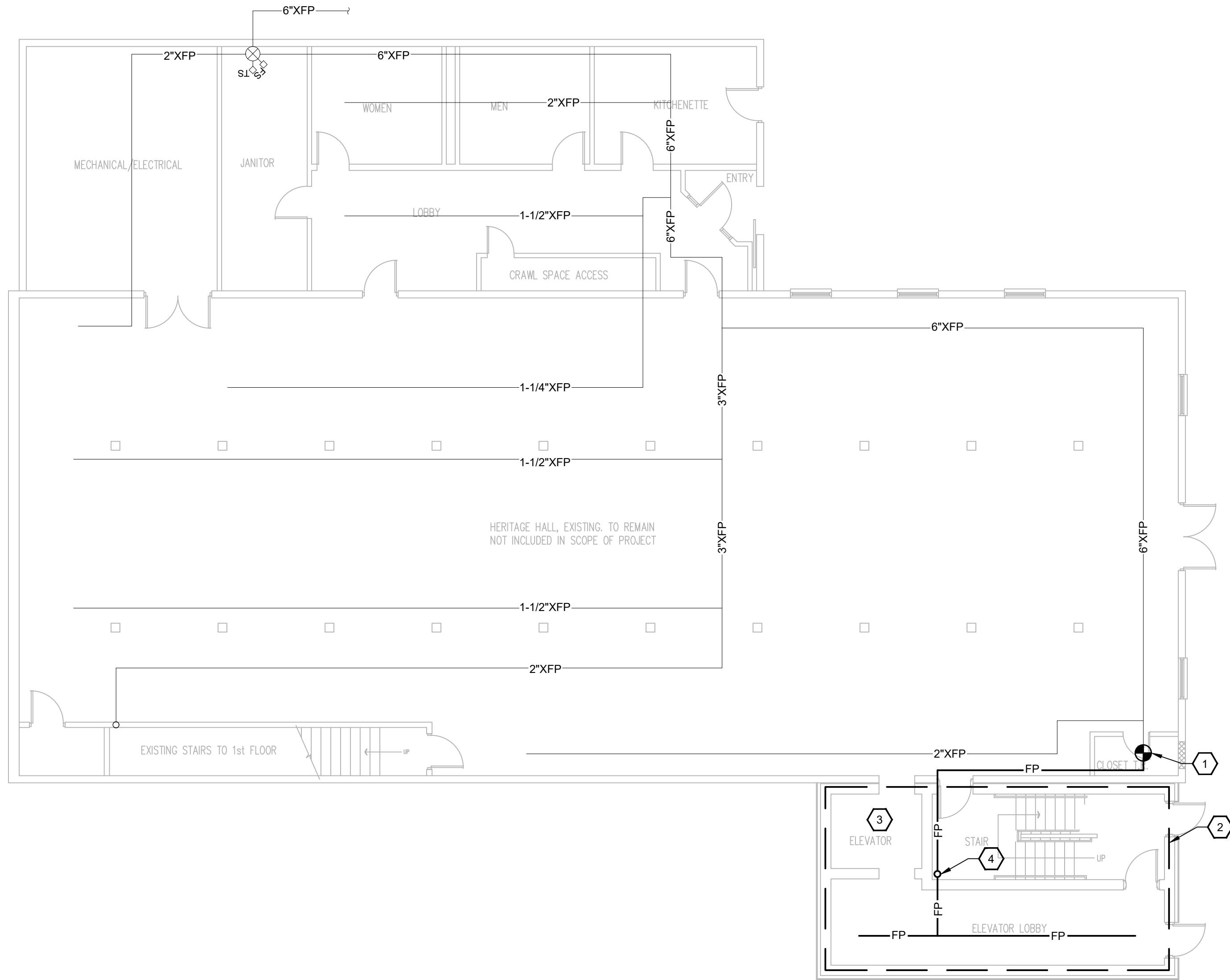
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DRAWING NO

FP-0.0



1 DEMOLITION - LOWER LEVEL (BASEMENT) PLAN - FIRE PROTECTION
1/8" = 1'-0"



2 NEW - LOWER LEVEL (BASEMENT) PLAN - FIRE PROTECTION
1/8" = 1'-0"



HISTORIC STEARNS
DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

GENERAL NOTES

- REFER TO SHEET FP-0.0.
- ALL NEW FIRE PROTECTION PIPING SHOWN SHALL BE ROUTED ABOVE CEILING AND CONCEALED FROM VIEW, WHERE APPLICABLE.
- MAINTAIN RATINGS OF ALL WALLS AND CEILINGS PENETRATED.
- NO SITE PLAN AVAILABLE TO DESIGN TEAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS AND UTILITY AVAILABILITY, INCLUDING CONDUCTING OWN FLOW TEST TO DETERMINE AVAILABLE WATER PRESSURE. CONTRACTOR TO PROVIDE THE MEANS NECESSARY TO ENSURE WATER AMOUNT/PRESSURE ENTERING BUILDING IS ADEQUATE TO SUPPORT THE INSTALLATION OF ALL REQUIRED FIRE PROTECTION SYSTEM(S).

DEMOLITION NOTES

- EXISTING 6" MAIN FROM UNDERGROUND COMBINATION FIRE PROTECTION/DOMESTIC WATER VAULT ON SITE TO REMAIN.
- EXISTING WET TYPE SPRINKLER RISER TO REMAIN.
- EXISTING 1-1/2" FIRE PROTECTION PIPING ROUTED TO STAIRWELL ABOVE TO REMAIN.
- EXISTING 6" WET TYPE FIRE PROTECTION MAIN CAPPED IN THIS AREA, SEE NEW WORK PLAN ON THIS SHEET FOR ADDITIONAL INFORMATION.

SHEET NOTES

- INTERCEPT EXISTING 6" WET TYPE FIRE PROTECTION MAIN IN THIS AREA AND ROUTE TO BUILDING'S NEW ADDITION AS SHOWN. CONTRACTOR SHALL INSTALL NEW SPRINKLER ABOVE ACCESSIBLE CEILING, AS HIGH AS POSSIBLE, FOR COMPLETE CONCEALMENT.
- OUTLINED AREA INDICATES BUILDING NEW ADDITION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SPRINKLER PIPING FOR THIS AREA PER CODE AND LOCAL AHJ.
- PROVIDE SPRINKLER PIPING IN ELEVATOR SUMP AREA IF REQUIRED BY AHJ.
- ROUTE SPRINKLER PIPING UP TO FLOORS ABOVE FOR CONTINUATION OF BUILDING'S AUTOMATIC FIRE PROTECTION SYSTEM, REFER TO SHEETS FP-1.2 AND FP-1.3 FOR ADDITIONAL INFORMATION.

PROJECT NO.	DESIGNED BY	DRAWN BY	CHECKED BY	REVIEWED BY	DATE	SCALE
2124-07	CE	CE	CE	CE	DECEMBER 2024	AS NOTED

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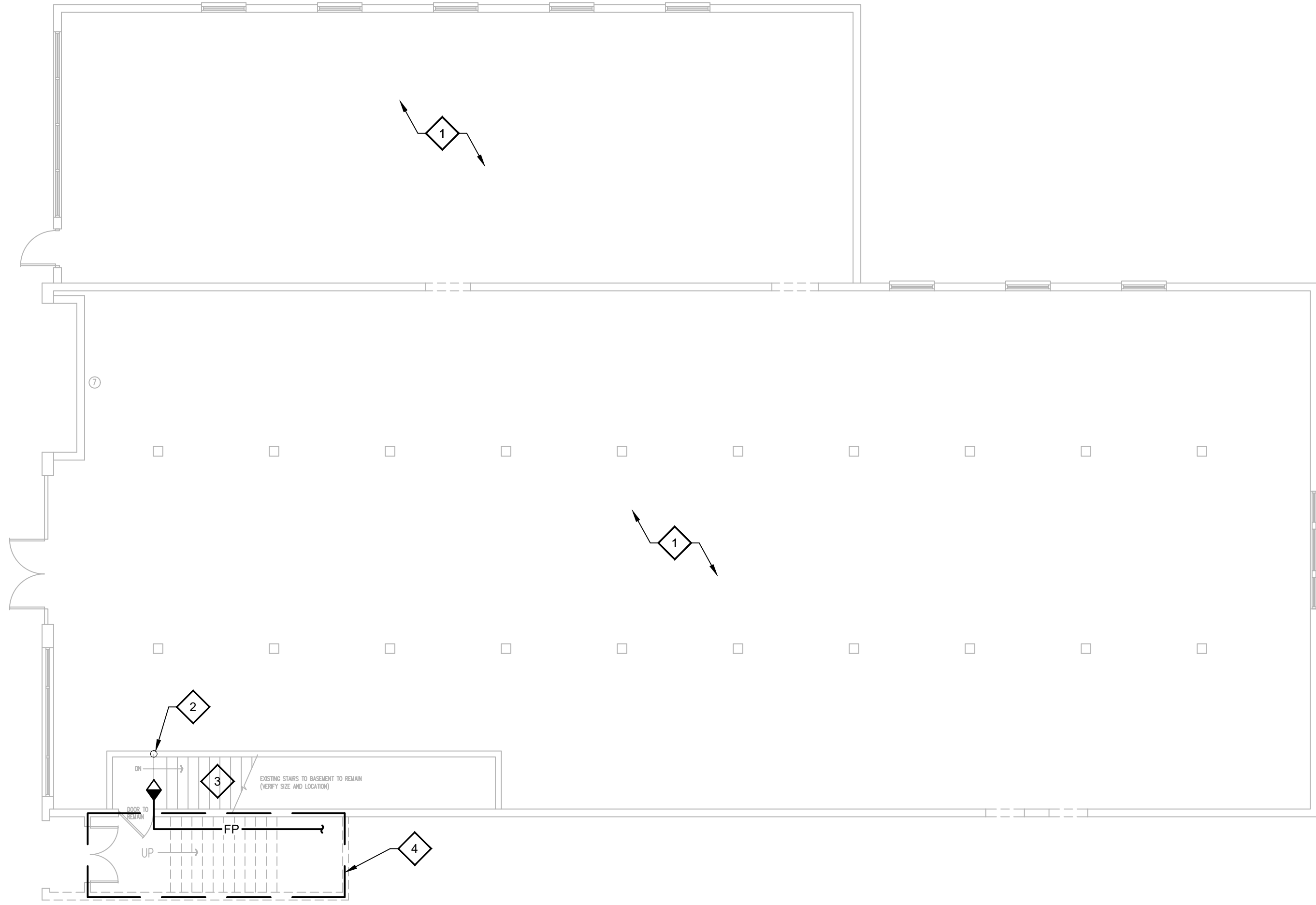
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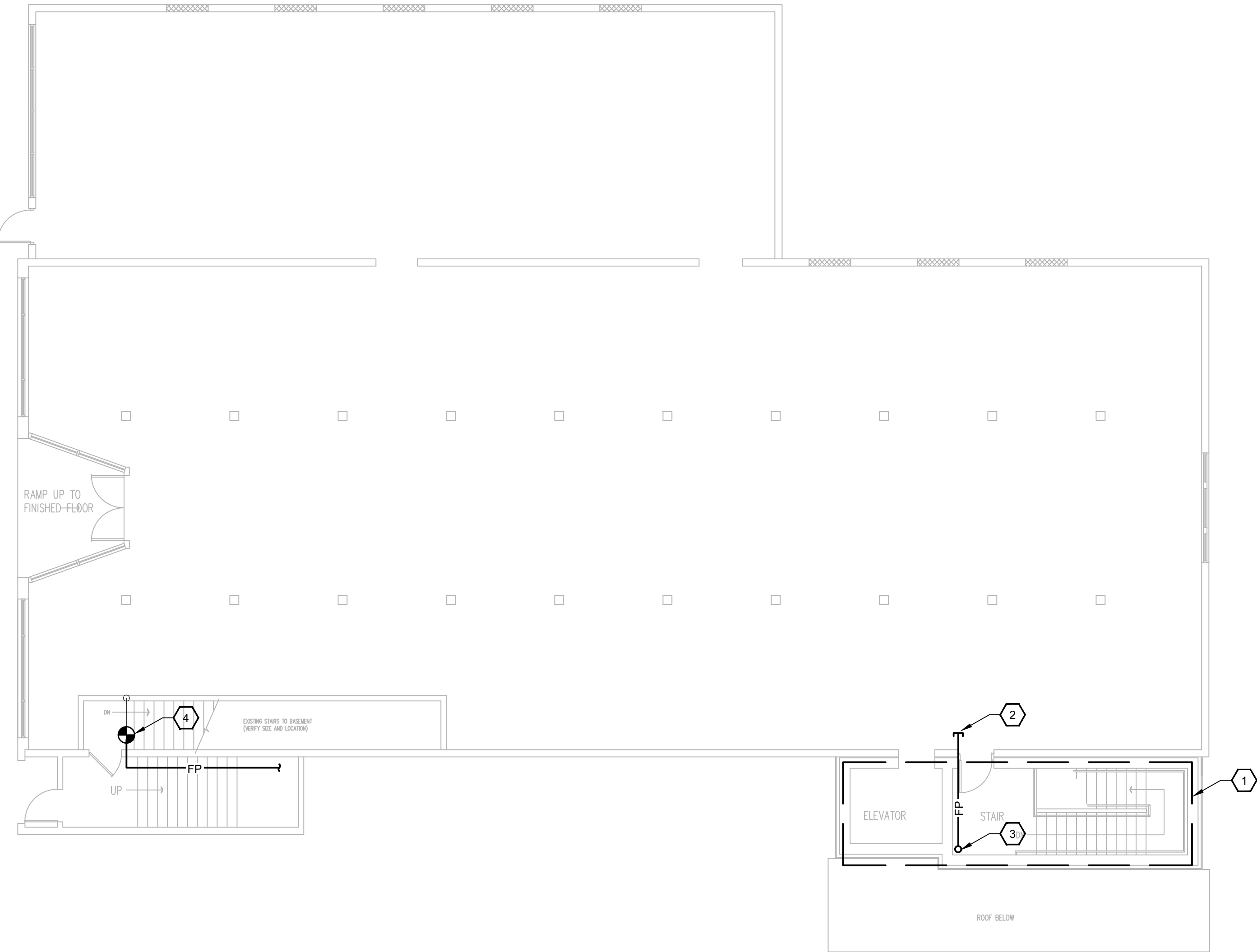
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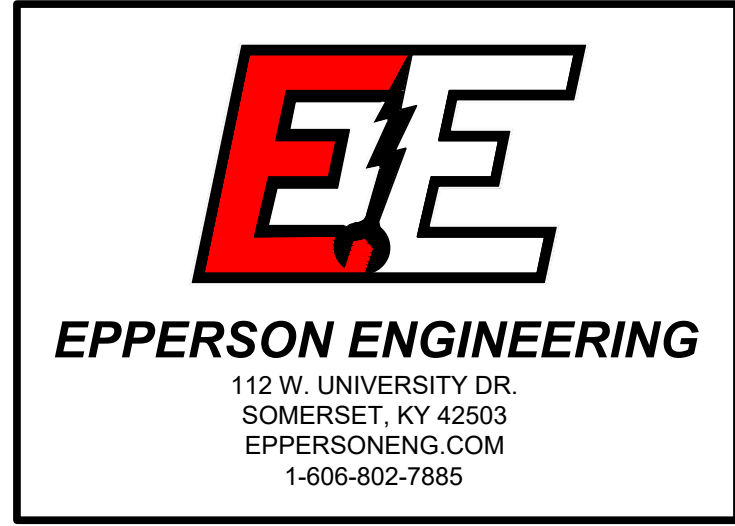
FP-1.1



1 DEMOLITION - 1ST FLOOR (MIDDLE FLOOR) PLAN - FIRE PROTECTION
1/8" = 1'-0"



2 NEW - 1ST FLOOR (MIDDLE FLOOR) PLAN - FIRE PROTECTION
1/8" = 1'-0"



GENERAL NOTES

1. REFER TO SHEET FP-0.0.
2. ALL NEW FIRE PROTECTION PIPING SHOWN SHALL BE ROUTED ABOVE CEILING AND CONCEALED FROM VIEW, WHERE APPLICABLE.
3. MAINTAIN RATINGS OF ALL WALLS AND CEILINGS PENETRATED.

DEMOLITION NOTES ◇

1. AREA TO BE FULLY GUTTED, WHERE APPLICABLE. REMOVE ALL SPRINKLER PIPING IN EXISTING FIRST FLOOR AREA(S) TO PREPARE FOR FIT-UP IN FUTURE PHASE.
2. EXISTING SPRINKLER PIPING UP FROM BASEMENT TO REMAIN.
3. EXISTING SPRINKLER PIPING SERVING THIS AREA TO REMAIN.
4. OUTLINED AREA INDICATES STAIRWELL TO BE DEMOLISHED. REMOVE ALL SPRINKLER PIPING IN THIS AREA PRIOR TO STAIRWELL DEMOLITION AND CAP FOR FUTURE REINSTALLATION AT LOCATION INDICATED. SEE NEW WORK PLAN ON THIS SHEET FOR ADDITIONAL INFORMATION.

SHEET NOTES ◇

1. OUTLINED AREA INDICATES BUILDING NEW ADDITION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SPRINKLER PIPING FOR THIS AREA PER CODE AND LOCAL AHJ.
2. TURN OUT SPRINKLER PIPING UP ABOVE CEILING AND CAP FOR FUTURE CONNECTION TO EXISTING FIRST FLOOR.
3. ROUTE SPRINKLER PIPING UP TO SECOND FLOOR ABOVE FOR CONTINUATION OF BUILDING'S AUTOMATIC FIRE PROTECTION SYSTEM, REFER TO SHEET FP-1.3 FOR ADDITIONAL INFORMATION.
4. INTERCEPT EXISTING SPRINKLER PIPING AND EXTEND TO NEWLY CONSTRUCTED STAIRWELL. PPROVIDE SPRINKLER PIPING FOR THIS AREA PER CODE AND LOCAL AHJ.



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STORE 1 & 3 RENOVATION
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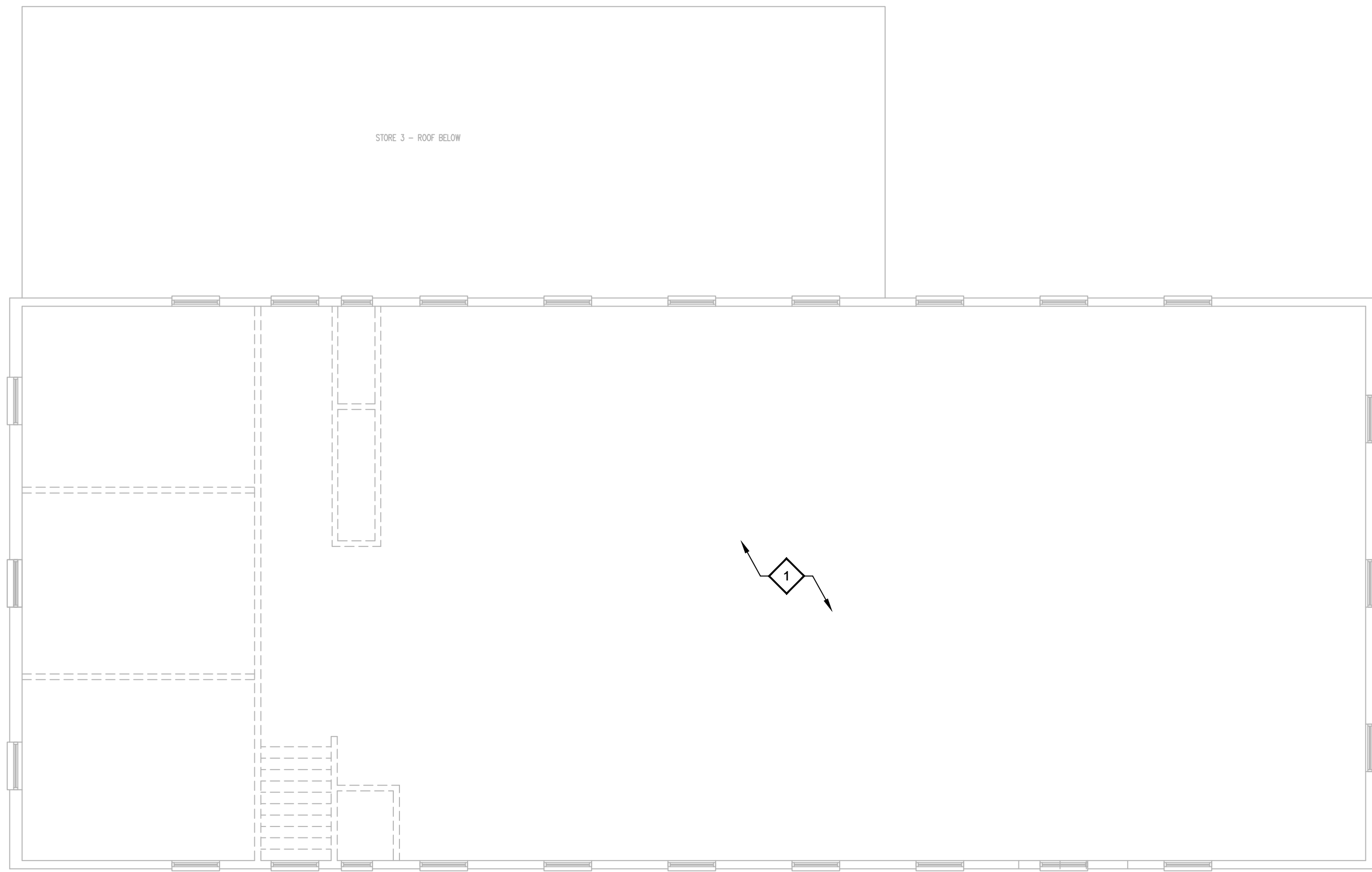
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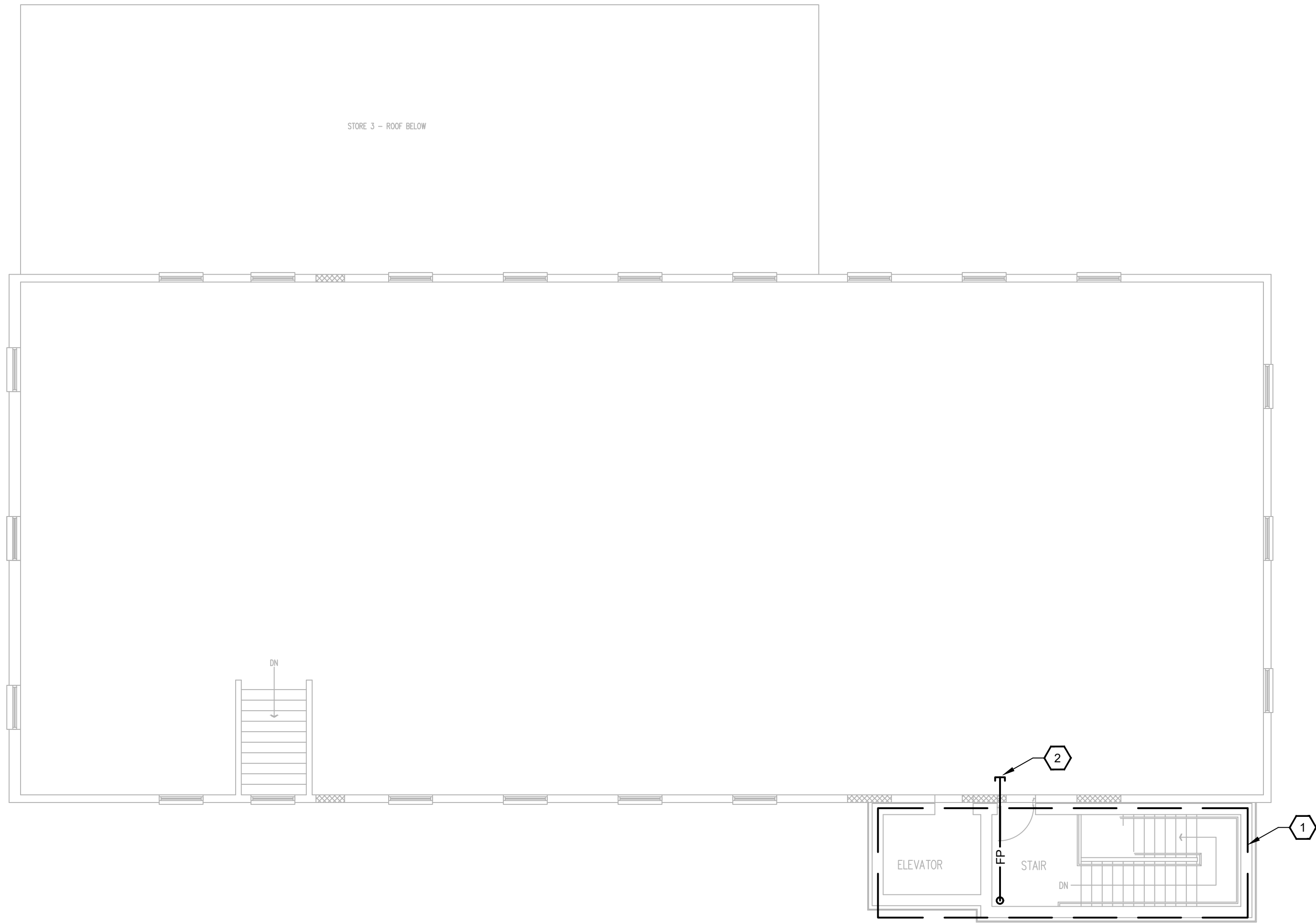
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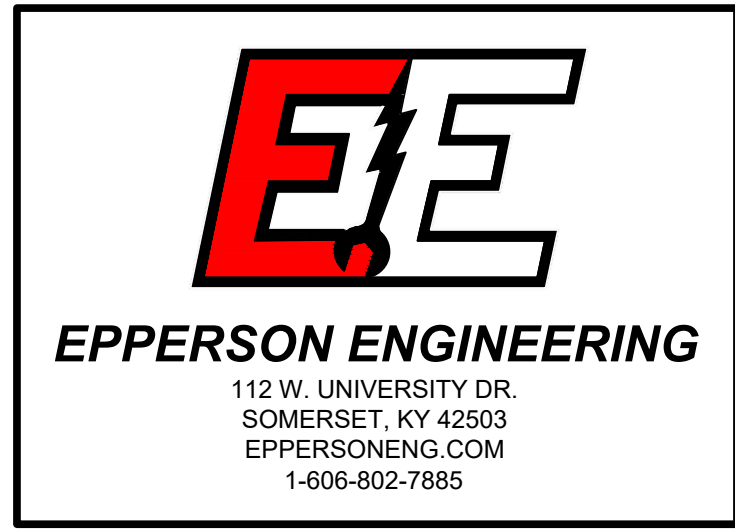
DRAWING NO.
FP-1.2



1 DEMOLITION - 2ND FLOOR (TOP FLOOR) PLAN - FIRE PROTECTION
1/8" = 1'-0"



2 NEW - 2ND FLOOR (TOP FLOOR) PLAN - FIRE PROTECTION
1/8" = 1'-0"



GENERAL NOTES

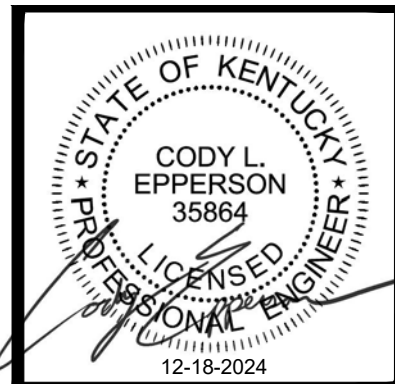
1. REFER TO SHEET FP-0.0.
2. ALL NEW FIRE PROTECTION PIPING SHOWN SHALL BE ROUTED ABOVE CEILING AND CONCEALED FROM VIEW, WHERE APPLICABLE.
3. MAINTAIN RATINGS OF ALL WALLS AND CEILINGS PENETRATED.

DEMOLITION NOTES ◇

1. AREA TO BE FULLY GUTTED, WHERE APPLICABLE, REMOVE ALL SPRINKLER PIPING IN EXISTING SECOND FLOOR AREA(S) TO PREPARE FOR FIT-UP IN FUTURE PHASE.

SHEET NOTES ◇

1. OUTLINED AREA INDICATES BUILDING NEW ADDITION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SPRINKLER PIPING FOR THIS AREA PER CODE AND LOCAL AHJ.
2. TURN OUT SPRINKLER PIPING UP ABOVE CEILING AND CAP FOR FUTURE CONNECTION TO EXISTING SECOND FLOOR.



HISTORIC STEARNS
DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

DATE	REVISION	BY

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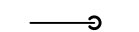
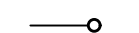
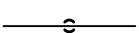
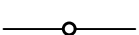
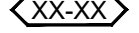
PROJECT NO.	2124-07
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DRAWN BY	CE
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REVIEWED BY	CE
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DRAWING NO.

FP-1.3

PLUMBING LEGEND

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
	PIPE DOWN
	PIPE UP
	TEE DOWN
	TEE UP
	CONTINUATION
	CAP
	SUMP PUMP
	FLOOR DRAIN
	P-TRAP
	FLOOR DRAIN GRATE
	SHEET NOTE
	DEMOLITION NOTE
	CONNECT NEW TO EXISTING
	EXTENT OF DEMOLITION
	EQUIPMENT TAG
	RISER IDENTIFICATION TAG

ABBREVIATIONS	
AFG	ABOVE FINISHED GRADE
AG	AIR GAP
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
CO	CLEANOUT
CON	CONDENSATE
CW	COLD WATER
D	DISPOSAL
DF	DRINKING FOUNTAIN
ECO	EXTERIOR CLEANOUT
ET	EXPANSION TANK
ETP	ELECTRONIC TRAP PRIMER
EWC	ELECTRIC WATER COOLER
EWB	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
GR	GREASE
GRV	GREASE VENT
GT	GREASE TRAP
HA	HAMMER ARRESTOR
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
IMB	ICE MAKER BOX
LAV	LAVATORY
LT	LAUNDRY TUB
MB	MOP BASIN
MS	MOP SINK
OR	OPEN RECEPTACLE
PD	PUMP DISCHARGE
PDI	PLUMBING DRAINAGE INSTITUTE
PRV	PRESSURE REDUCING VALVE
RBS	RECIRC. BALANCE STATION
RP	RECIRCULATION PUMP
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
S	SINK
SS	SANITARY SEWER
SP	SUMP PUMP
TD	TRENCH DRAIN
TP	TRAP PRIMER
TMV	THERMOSTATIC MIXING VALVE
T&P	TEMPERATURE & PRESSURE
U	URINAL
UT	UTILITY TUB
V	VENT
VTR	VENT THROUGH ROOF
WB	WASHER BOX
WC	WATER CLOSET
W.C.	WATER COLUMN
WCO	WALL CLEANOUT
VH	WALL HYDRANT
WS	WASH STATION
WS	WATER SOFTENER
X	EXISTING

GENERAL NOTES - PLUMBING:

- CONSTRUCTION PHASING: ALL WORK SHALL BE COORDINATED AND SCHEDULED WITH THE GENERAL CONTRACTOR, OTHER TRADES, THE OWNER, RELATED UTILITY COMPANIES SHALL COINCIDE WITH CONSTRUCTION PHASING PER THE ARCHITECTURAL DOCUMENTS. CONTACT THE ARCHITECT/ENGINEER IN THE EVENT OF A CONFLICT.
- NEW UTILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW UTILITY SERVICES AND COSTS UNDER THIS CONTRACT. COORDINATE AND SCHEDULE ALL RELATED WORK WITH THE UTILITY COMPANIES.
- MAINTAIN SITE UTILITIES: THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SITE UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE ANY OUTAGE. SCHEDULED SHUT-DOWNS SHALL REQUIRE 48 HOUR PRIOR NOTIFICATION WITH OWNER. COORDINATE ALL RELATED WORK WITH THE OWNER AND THE UTILITY COMPANIES AS REQUIRED.
- VERIFY UTILITIES: FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WHERE REQUIRED FOR CONNECTIONS OF NEW WORK PRIOR TO CONSTRUCTION AND FABRICATION. DOCUMENT ON THE AS-BUILT DRAWINGS; THE TYPE, SIZE, MATERIAL, LOCATION AND INVERT ELEVATIONS OF ALL UTILITIES ENCOUNTERED. COORDINATE ALL RELATED WORK WITH ALL PARTIES INVOLVED. CONTACT THE ENGINEER IN THE EVENT OF A CONFLICT.
- CONTACT B.U.D.: THE EXISTING UTILITIES, EQUIPMENT, AND PIPING SHOWN ON THESE DRAWINGS ARE FROM RECORD DRAWINGS AND VISUAL INSPECTION OF THE SITE. THE NUMBER, LOCATION, SIZE, AND TYPE OF UTILITIES SHOWN ARE APPROXIMATE, AND THERE MAY BE OTHER UTILITIES NOT SHOWN. THE CONTRACTOR SHALL CONTACT ALL AFFECTED UTILITY COMPANIES AND KENTUCKY B.U.D. PRIOR TO BEGINNING EXCAVATION.
- PERMITS, TESTING, AND INSPECTIONS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, TESTING AND SCHEDULES INSPECTIONS.
- REMOVAL OF EXISTING UTILITIES: REMOVE UNUSED/ABANDONED EQUIPMENT, PIPING, ETC. AS NECESSARY TO INSTALL THE NEW WORK. CAP THE ENDS OF ALL LINES AND ABANDON IN PLACE.
- TEMPORARY CONSTRUCTION HEAT: PROVIDE TEMPORARY HEAT IN CONSTRUCTION AREAS AS REQUIRED TO PREVENT FREEZING OF WATER PIPING DURING CONSTRUCTION.
- PATCHING AND REPAIRING: PATCH AND REPAIR ALL AREAS WHERE WALLS, SLABS, PAVEMENT, CURBS, VEGETATION AND MATERIALS HAVE BEEN CUT, REMOVED, DISTURBED AND OR MODIFIED. MATCH EXISTING MATERIALS, RATINGS, AND FINISHES.
- CUTTING EXISTING MATERIALS: CUTTING OF EXISTING PAVEMENT, SLABS, CONCRETE MASONRY, WALLS, ETC. SHALL BE SAW-CUT OR CORE DRILLED. NO "HAMMER DRILLING" WILL BE ALLOWED.
- ROOFING PENETRATIONS: ALL ROOF PENETRATIONS SHALL BE IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S GUIDELINES, THE AMERICAN ROOFING COUNCIL, AND MAINTAIN ALL WARRANTIES.
- WALL PENETRATIONS: SEAL ALL PIPING PENETRATIONS THROUGH EXTERIOR WALLS WITH SILICONE SEALANT AS REQUIRED TO MAKE WATER/WEATHER TIGHT.
- EXISTING WALL OPENINGS: EXISTING OPENINGS IN WALLS THAT ARE NOT BEING RE-USED SHALL BE PATCHED/CLOSED BY THE GENERAL CONTRACTOR.
- NEW OPENINGS: NEW OPENINGS FOR PLUMBING PENETRATIONS THROUGH FIRE/SMOKE RATED WALLS, ASSEMBLIES AND SLABS SHALL BE BY THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- FIRE AND SMOKE STOPPING: ALL PLUMBING PENETRATIONS THROUGH FIRE/SMOKE RATED WALLS, ASSEMBLIES AND SLABS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- INSULATION: INSULATE ALL DOMESTIC HOT/COLD WATER, RECIRCULATION PIPING, AND ROOF LEADERS.
- HAMMER ARRESTOR: ALL HAMMER ARRESTORS SHOWN ON FLOOR PLANS, BUT NOT ON RISERS OR VICE VERSA SHALL BE PROVIDED AND INSTALLED AS SHOWN ON BOTH.
- VALVES: ALL VALVES SHOWN ON FLOOR PLANS, BUT NOT ON RISERS OR VICE VERSA, SHALL BE PROVIDED AND INSTALLED AS IF SHOWN ON BOTH.
- ELECTRICAL PANELS AND EQUIPMENT: PLUMBING PIPING, SYSTEMS, AND EQUIPMENT SHALL BE INSTALLED TO MAINTAIN THE DEDICATED WORKING/ELECTRICAL SPACE ABOVE, BELOW, AND IN FRONT OF ELECTRICAL PANELS AND EQUIPMENT PER THE REQUIREMENTS OF THE N.E.C. (NATIONAL ELECTRIC CODE).

SUMP PUMP SCHEDULE													
MARK	MANUFACTURER	MODEL	LOCATION	FLOW (GPM)	HEAD (FT)	RPM	CONNECTIONS		ELECTRICAL				NOTES
							INLET	OUTLET	HP	V / Ø / Hz	MCA	MOCP	
SP-1	ZOELLER	N152	ELEVATOR PIT	61	10	3450	-	1-1/2"	1	115/1/60	14	20	ALL
NOTES: 1. PIGGYBACK FLOAT SWITCH FOR AUTOMATIC OPERATION 2. PUMP FURNISHED WITH CORD SET 2. TERMINATE PUMP DISCHARGE AT EXTERIOR WALL, MINIMUM 16" ABOVE GRADE													

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
P-0.0	PLUMBING LEGEND & NOTES
P-1.1	PLUMBING PLAN
P-1.2	PLUMBING PLAN
P-1.3	PLUMBING PLAN



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HISTORIC STEARNS
DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

PROJECT NO. 2124-07

DESIGNED BY CE
DRAWN BY CE
CHECKED BY CE
REVIEWED BY CE
DATE DECEMBER 2024

SCALE AS NOTED

DATE
REVISION
BY

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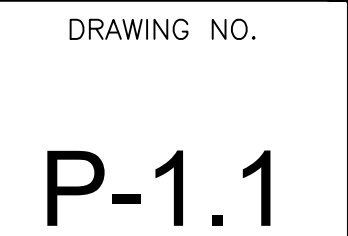
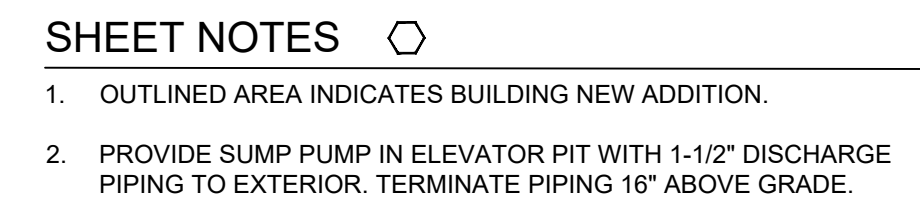
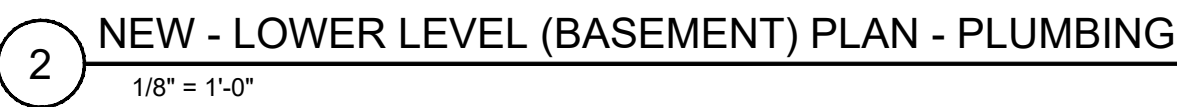
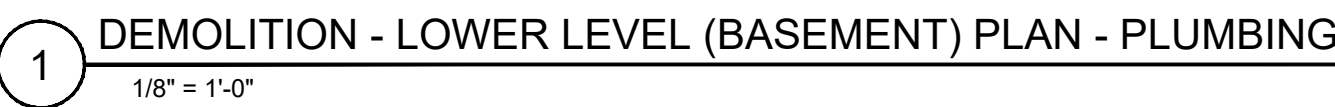
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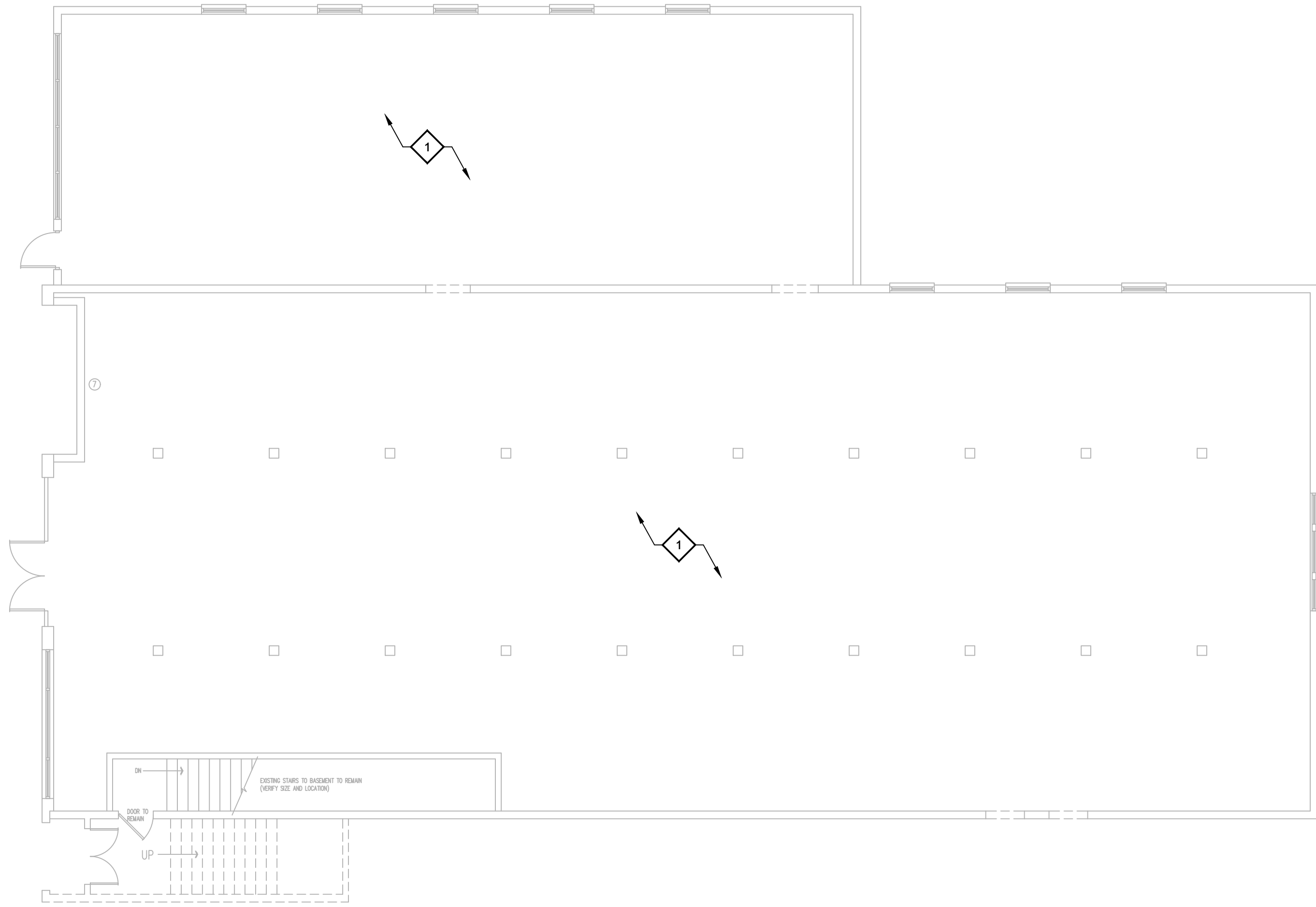
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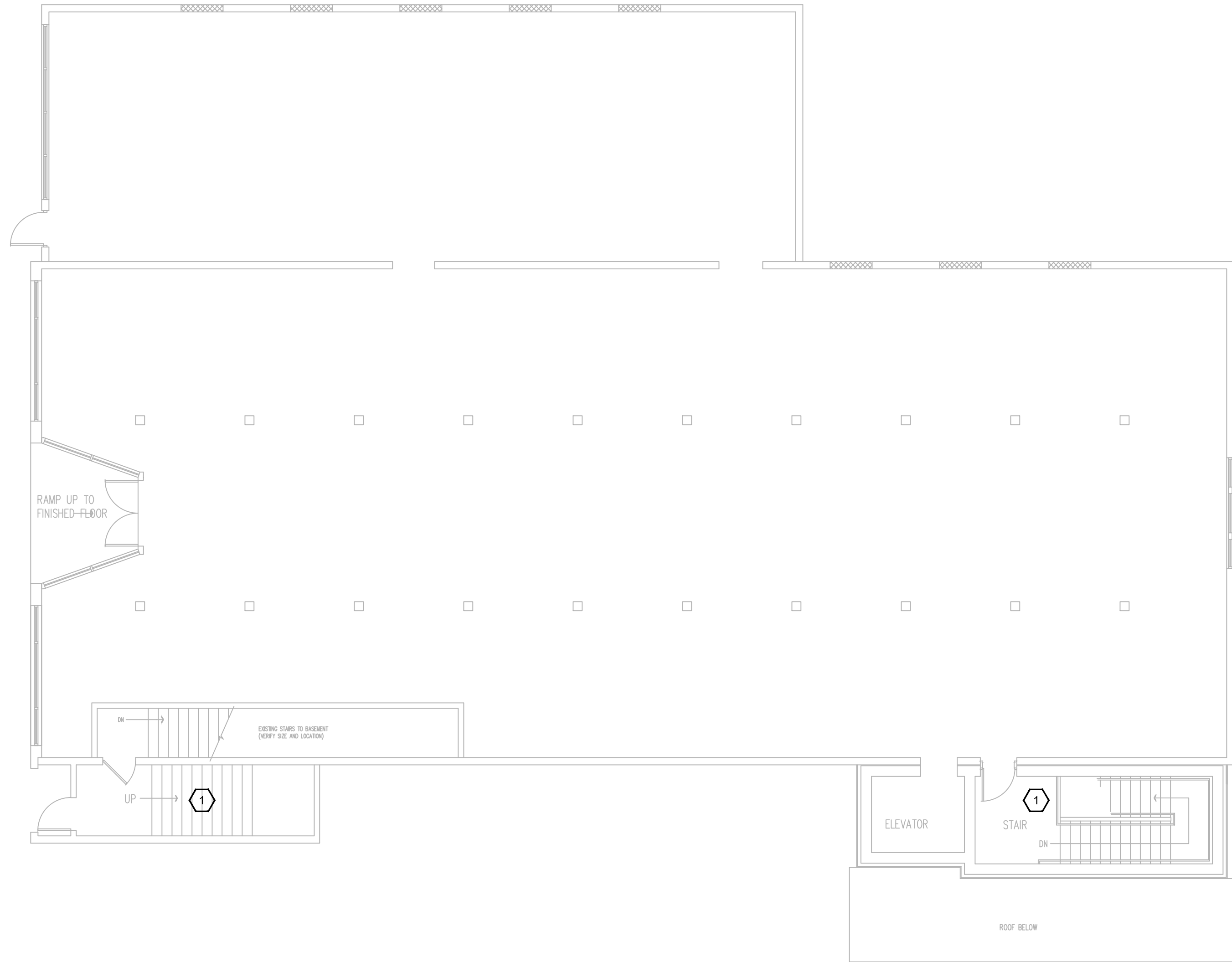
DRAWING NO.

P-0.0





1 DEMOLITION - 1ST FLOOR (MIDDLE FLOOR) PLAN - PLUMBING
1/8" = 1'-0"



2 NEW - 1ST FLOOR (MIDDLE FLOOR) PLAN - PLUMBING
1/8" = 1'-0"



GENERAL NOTES

1. REFER TO SHEET P-0.0.
2. MAINTAIN RATINGS OF ALL WALLS AND CEILINGS PENETRATED.

DEMOLITION NOTES

1. AREA TO BE FULLY GUTTED. WHERE APPLICABLE, REMOVE ALL PLUMBING FIXTURES, PIPING, ETC. TO PREPARE FOR FIT-UP IN FUTURE PHASE.

SHEET NOTES

1. NO PLUMBING WORK IN THIS AREA UNLESS OTHERWISE NOTED.



HISTORIC STEARNS
DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

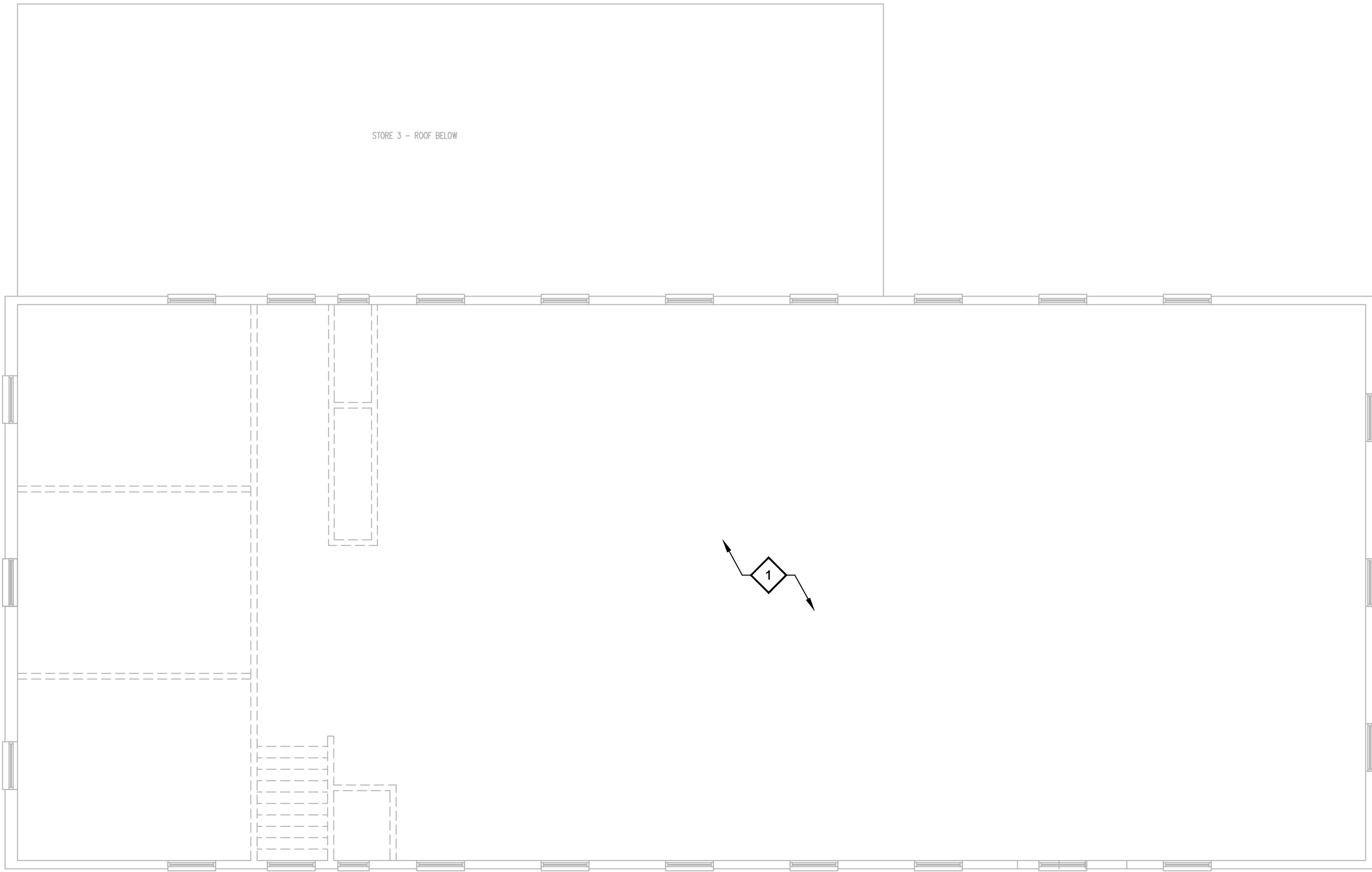
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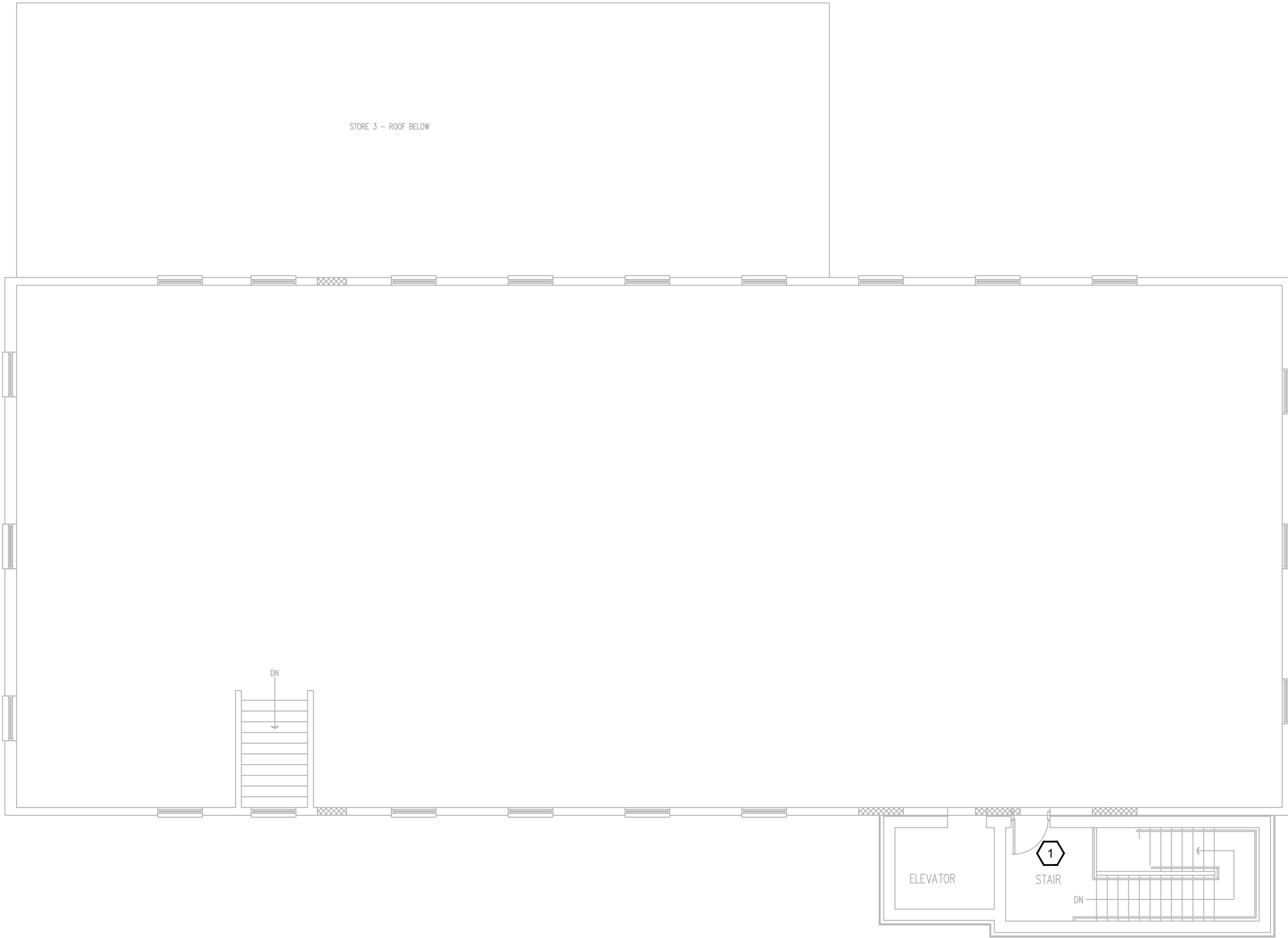
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DRAWING NO.
P-1.2



1 DEMOLITION - 2ND FLOOR (TOP FLOOR) PLAN - PLUMBING
1/8" = 1'-0"



2 NEW - 2ND FLOOR (TOP FLOOR) PLAN - PLUMBING
1/8" = 1'-0"



GENERAL NOTES

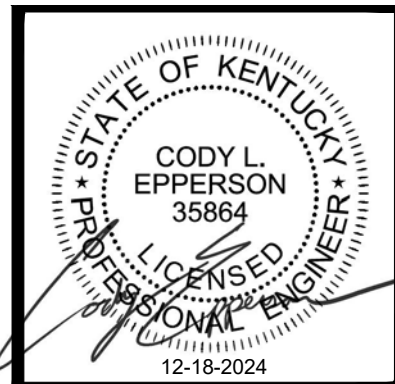
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DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

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P-1.3

MECHANICAL LEGEND

HVAC	
SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER (4-WAY, 3-WAY, 2-WAY, 1-WAY)
	SUPPLY AIR DIFFUSER (ROUND)
	RETURN GRILLES
	EXHAUST GRILLES
	FLEXIBLE CONNECTION
	SUPPLY AIR DUCT (UP-, DOWN)
	RETURN AIR DUCT (UP-, DOWN)
	EXHAUST AIR DUCT (UP-, DOWN)
	ROUND DUCT DOWN
	ROUND DUCT UP
	RECTANGULAR TO RECTANGULAR TRANSITION
	DUCT CHANGE IN ELEVATION; R= RISE, D= DROP
	DUCT SIZE BACKDRAFT DAMPER (ARROW INDICATES FLOW DIRECTION)
	FIRE DAMPER
	MANUAL VOLUME CONTROL BALANCE DAMPER
	SMOKE DAMPER
	MOTORIZED DAMPER
	COMBINATION - FIRE / SMOKE DAMPER
	ELBOW WITH TURNING VANES
	ELBOW ROUND
	CONNECT NEW TO EXISTING
	INDICATES AIR FLOW DIRECTION
	ROOM THERMOSTAT OR DUCT STAT
	SENSOR (CO, CO2, ETC.)
	HUMIDISTAT
	SUPPLY AIR DEVICE (S-1) / AIRFLOW (CFM)
	EQUIPMENT IDENTIFICATION
	DETAIL NO. / SHEET NO.
	SECTION NO. / SHEET NO.
	INDICATED TAG OR SHEET NOTE
	DEMOLITION NOTE
	REVISION TAG
	EXTENT OF DEMOLITION

ABBREVIATIONS	
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU-X	AIR HANDLING UNIT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CU-X	CONDENSING UNIT
EF-X	EXHAUST FAN
EG-X	EXHAUST AIR DEVICE (MATCH GRD SCHEDULE)
EH-X	ELECTRIC HEATER
ESP	EXTERNAL STATIC PRESSURE
HP-X	HEAT PUMP UNIT
KW	KILOWATT
L-X	LOUVER DESIGNATION
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
R-X	RETURN AIR DEVICE
S-X	SUPPLY AIR DEVICE

MECHANICAL NOTES

1. REFER TO SPECIFICATIONS AND THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

2. ALL MECHANICAL WORK SHALL BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR.

3. ALL WORK SHALL BE COORDINATED AND SCHEDULED WITH THE CONSTRUCTION MANAGER (CM) OR GENERAL CONTRACTOR (GC), OTHER TRADES, THE OWNER, AND RELATED UTILITY COMPANIES. ALL WORK SHALL COINCIDE WITH THE CONSTRUCTION PHASING PER THE CONTRACT DOCUMENTS OR CONSTRUCTION DOCUMENTS AND/OR AS MODIFIED BY THE CM/GC AND APPROVED BY THE OWNER AND DESIGN TEAM. THE MECHANICAL CONTRACTOR SHALL COORDINATE AND DEVELOP A PHASING PLAN WHERE ONE IS NOT EXPLICITLY SHOWN AND SHALL ENSURE THAT SAID PHASING PLAN IS APPROVED PRIOR TO PROCEEDING WITH WORK. ANY AND ALL DEMOLITION SHALL NOT PERMIT INTERRUPTION OF SERVICE IN AN OCCUPIED BUILDING UNLESS COORDINATED AND APPROVED.

4. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF DUCTWORK, PIPING, EQUIPMENT, AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, VALVE, OR COMPONENT. CONTRACTOR TO PROVIDE ANY ADDITIONAL DUCT OR PIPING OFFSETS AND/OR FITTINGS, INCLUDING DIVIDED DUCTS AND FLATTENED DUCTS, REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.

5. THE MECHANICAL CONTRACTOR SHALL OBTAIN A COPY OF THE ENTIRE SET OF CONTRACT DOCUMENTS PRIOR TO BID AND SHALL COORDINATE ROUTING AND INSTALLATION OF MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT WITH ALL OTHER DISCIPLINES AND TRADES INCLUDING BUT NOT LIMITED TO CIVIL, ARCHITECTURAL, STRUCTURAL, FIRE SUPPRESSION, PLUMBING, AND ELECTRICAL.

6. REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS. FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR COMPLETION AND OPERATION OF A FULLY FUNCTIONAL MECHANICAL SYSTEM AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE KENTUCKY BUILDING CODE, ASHRAE, IMC, IECC, SMACNA, AND NFPA.

7. THE EXACT LOCATIONS OF ALL EQUIPMENT, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH ALL OTHER TRADES. CEILING MOUNTED LIGHTING AND ELECTRICAL DEVICES TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL EQUIPMENT. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.

8. THE MECHANICAL DRAWINGS REFLECT A "BASIS OF DESIGN" HVAC SYSTEM THAT HAS BEEN DESIGNED AROUND SPECIFIC PRODUCTS/MANUFACTURER'S (SEE SCHEDULES). THE SELECTION OF A "BASIS OF DESIGN" HAS INFLUENCED THE DESIGNS OF OTHER TRADES (PLUMBING, ELECTRICAL, STRUCTURAL, ETC.). THE CONTRACTOR MAY USE "NON-BASIS OF DESIGN" PRODUCTS/MANUFACTURER'S AS PERMITTED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. IF "NON-BASIS OF DESIGN" MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, SUBMITTED, OR INSTALLED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL OF HIS OR HER SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND SHALL BE INCLUDED IN THE BID. SUBSEQUENTLY, ANY ADDITIONAL COST BORE BY THE ENGINEER (MECHANICAL, ELECTRICAL, ETC) TO ACCOMMODATE "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE BORE BY THE CONTRACTOR AND PAID TO THE ENGINEER OF RECORD DURING SUBMITTALS.

9. CONTRACTOR SHALL VISIT THE JOB SITE, FIELD VERIFY FIT, COORDINATE WITH OTHER TRADES, AND BECOME FAMILIAR WITH ALL PROJECT CONDITIONS PRIOR TO FABRICATING DUCTWORK, INSTALLING EQUIPMENT, ETC. NO ALLOWANCES OR CHANGE ORDERS WILL BE ALLOWED FOR LACK THEREOF.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR ALL PERMITS, TESTING, AND INSPECTIONS.

11. CONTRACTOR TO REMOVE UNUSED/ABANDONED HVAC SYSTEMS AND EQUIPMENT UNLESS INDICATED OTHERWISE ON THE CONTRACT DOCUMENTS.

12. COORDINATE WITH THE CONTRACT DOCUMENTS AND PROVIDE TEMPORARY HEAT AS REQUIRED.

13. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS BUT NOT SHOWN ON PLANS AND VICE VERSA, SHALL BE PROVIDED AS IF REQUIRED BY BOTH.

14. THE ENTIRE MECHANICAL INSTALLATION SHALL BE AS REQUIRED TO MAINTAIN FIRE/SMOKE RATINGS AND/OR "UL" ASSEMBLY RATINGS AS REQUIRED BY THE CONTRACT DOCUMENTS AND AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. SEAL AROUND ALL PENETRATIONS THROUGH ALL FIRE/SMOKE SEPARATIONS AND/OR "UL" RATED ASSEMBLIES. COORDINATE ALL PENETRATIONS WITH THE CONSTRUCTION MANAGER AND/OR GENERAL CONTRACTOR. PROVIDE ADDITIONAL FIRE DAMPERS, SMOKE DETECTORS, AND SMOKE DAMPERS (INCLUSIVE OF WIRING) AS REQUIRED FOR A FULLY FUNCTIONAL AND CODE COMPLIANT SYSTEM.

15. ALL DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE. NO OTHER TRADES, I.E. ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM MECHANICAL DUCTWORK OR MECHANICAL PIPING.

16. ALL EXTERIOR BUILDING PENETRATIONS MUST BE COORDINATED WITH THE ARCHITECT AND SHALL BE FLASHED
- AND SEALED WEATHER-TIGHT. ALL MATERIALS AND COLORS MUST BE PRE-APPROVED BY THE ARCHITECT. NEW OPENINGS AND/OR PENETRATIONS FOR MECHANICAL ITEMS SHALL BE CUT, SLEEVED, ETC. BY THE MECHANICAL CONTRACTOR.

17. ROUTE DUCTWORK AS HIGH AS POSSIBLE TO FACILITATE ACCESS TO ABOVE CEILING SPACE. COORDINATE ROUTING WITH OTHER SERVICES AND TRADES. PROVIDE ADDITIONAL DUCTWORK, OFFSETS, ETC. TO ACCOMMODATE FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM AT NO ADDITIONAL COST. ADDITIONAL OFFSETS REQUIRE APPROVAL FROM THE ENGINEER. ROUTE DUCTWORK BETWEEN JOISTS WHERE POSSIBLE.

18. ALL AIR DEVICES LOCATED ABOVE GYPBOARD OR HARD CEILINGS SHALL HAVE ACCESSIBLE BALANCING DAMPERS.

19. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

20. PROVIDE AND INSTALL DUCT ACCESS DOORS FOR INSPECTION OF ALL INSTALLED FIRE DAMPERS AS DIRECTED BY SMACNA HVAC CONSTRUCTION STANDARDS.

21. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF UL-181 FLEXIBLE AIR DUCTS. SUPPORT TO ELIMINATE SAGGING AND KINKING. INSULATED FLEXIBLE DUCTS SHALL MEET MINIMUM R-VALUES REQUIRED BY ENERGY CODE.

22. ALL HVAC EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. UTILIZE FACTORY FILTERS DURING CONSTRUCTION.

23. THE MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNERS REPRESENTATIVES WITH COMPLETE NEBB/AABC BALANCE REPORT. THE MECHANICAL CONTRACTOR SHALL PROVIDE AS MANY ADDITIONAL SITE VISITS BY THE LICENSED TAB CONTRACTOR AS REQUIRED BY THE ENGINEER FOR A COMPLETE AND FUNCTIONING AND APPROVED SYSTEM IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

24. ALL RECTANGULAR 90 DEG. AND 45 DEG. ELBOWS SHALL HAVE TURNING VANES.

25. PROVIDE A MANUAL VOLUME DAMPER AT ALL BRANCH TAKE-OFFS ON SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK AT NO ADDITIONAL COST. PROVIDE A MAIN RETURN DAMPER UPSTREAM OF OUTSIDE AIR CONNECTIONS IN RETURN AIR PLENUM DESIGNS. COORDINATE ADDITIONAL MANUAL VOLUME DAMPER LOCATIONS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM WITH THE ENGINEER PRIOR TO ORDER, FABRICATION, OR INSTALLATION.

26. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR "CLEAR" DUCT DIMENSIONS.

27. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTDOOR AIR INTAKES AND EXHAUST, PLUMBING VENTS, ETC. AND/OR AS REQUIRED BY IMC, WHICHEVER IS MORE STRINGENT.

28. MAINTAIN 10'-0" MINIMUM CLEARANCE FROM EDGE OF ROOFTOP EQUIPMENT TO ROOF EDGE UNLESS RAILING OR PARAPET OF SUFFICIENT HEIGHT IS TO BE PROVIDED. REFER TO ARCHITECTURAL.

29. ALL CONTROL WIRING AND CONDUIT SHALL COMPLY WITH NEC. ANY WIRING ROUTED IN EXPOSED/OPEN CEILING AREAS, ABOVE INACCESSIBLE CEILINGS, OR THROUGH WALLS SHALL BE INSTALLED IN CONDUIT.

30. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND DRAWINGS FOR CONNECTIONS TO ALL HVAC EQUIPMENT.

31. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR BENDS IN PIPING AS REQUIRED TO ALLOW FOR EXPANSION AND CONTRACTION DUE TO TEMPERATURE CHANGES AND DIFFERENCES IN THE AMBIENT TEMPERATURE WHEN PIPING AND EQUIPMENT IS INSTALLED.

32. ALL ROOF PENETRATIONS SHALL BE IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S GUIDELINES AND THE AMERICAN ROOFING COUNCIL. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AS NECESSARY TO MAINTAIN ALL WARRANTIES.

33. STRUCTURAL MEMBERS SHALL NOT BE CUT OR COMPROMISED IN ANY WAY.

34. DO NOT BLOCK ACCESS TO HVAC OR ELECTRICAL EQUIPMENT. DO NOT INSTALL PIPING, DUCTWORK, OR EQUIPMENT OVER ELECTRICAL PANELS/SWITCHGEAR OR THE 42" CLEARANCE IN FRONT OF THESE ELECTRICAL ITEMS. COORDINATE ADDITIONAL REQUIREMENTS WITH NEC.

35. MAINTAIN CLEARANCES AROUND ALL HVAC EQUIPMENT, DEVICES, CONTROLLERS, ETC. PER MANUFACTURER'S RECOMMENDATIONS.

ELECTRIC HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	CFM	BTUH	ELECTRICAL				NOTES:
						VOLTAGE	KW	FLA	MOCP	
EH-1	MARKEL	F3424T	WALL - SEMI-RECESSED	245	13,652	208/1	4	19.2	25	1-4
EH-2	MARKEL	E3383D-RP	CEILING - RECESSED	175	5,120	120	1.5	12.5	20	1-3
EH-3	MARKEL	F3422T	WALL - SEMI-RECESSED	245	6,826	208/1	2	9.6	20	1-4

- NOTES:
1. INTEGRAL FACTORY INSTALLED TAMPER-PROOF THERMOSTAT AND DISCONNECT SWITCH; COORDINATE THERMOSTAT SET POINT WITH OWNER

2. WHITE POWDER COAT TRIM

3. TAMPER RESISTANT FRONT COVER

4. 1" SEMI-RECESSED SLEEVE

SHEET INDEX

SHEET NUMBER	SHEET TITLE
M-0.0	MECHANICAL LEGEND & NOTES
M-1.1	HVAC PLAN
M-1.2	HVAC PLAN
M-1.3	HVAC PLAN

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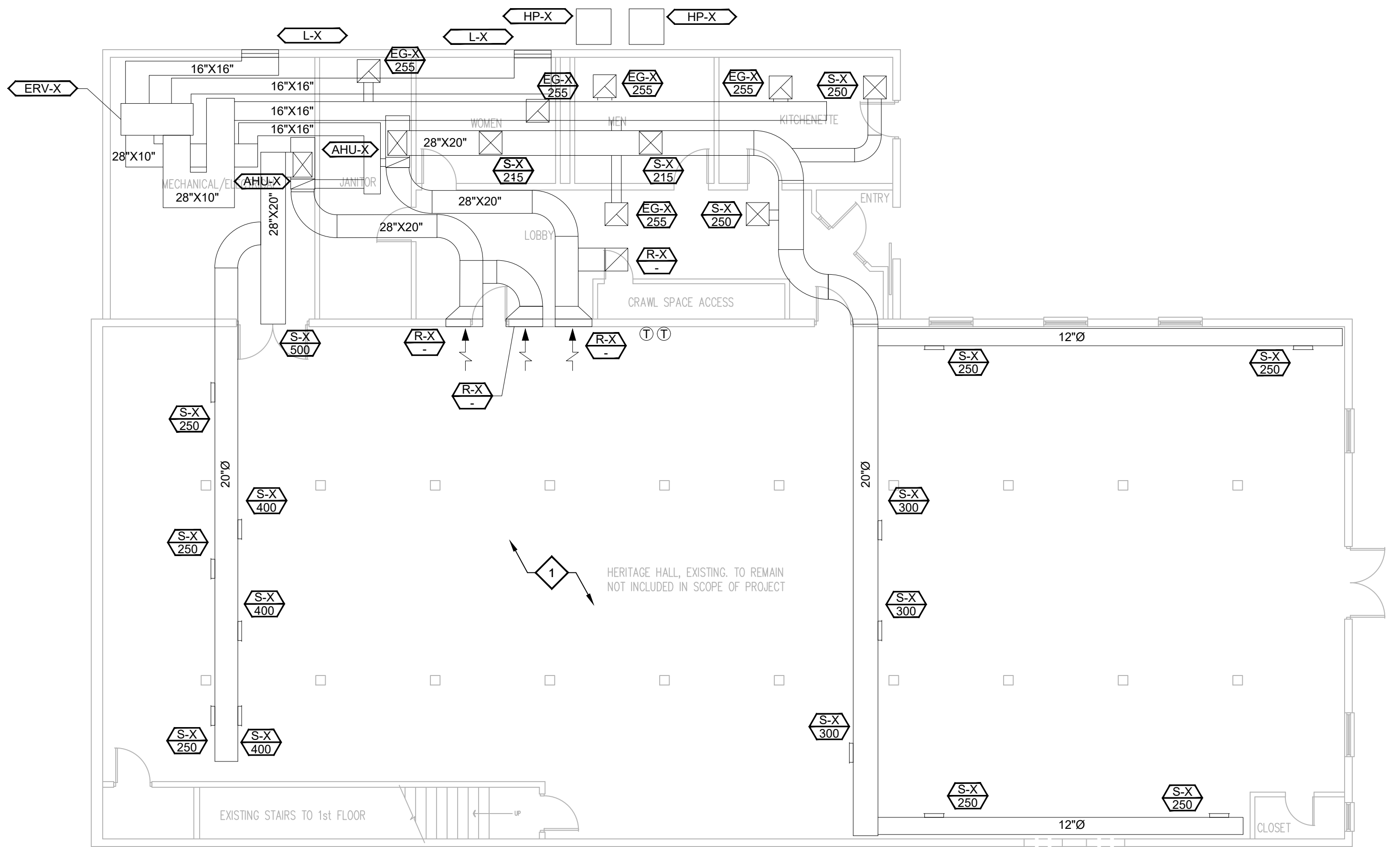
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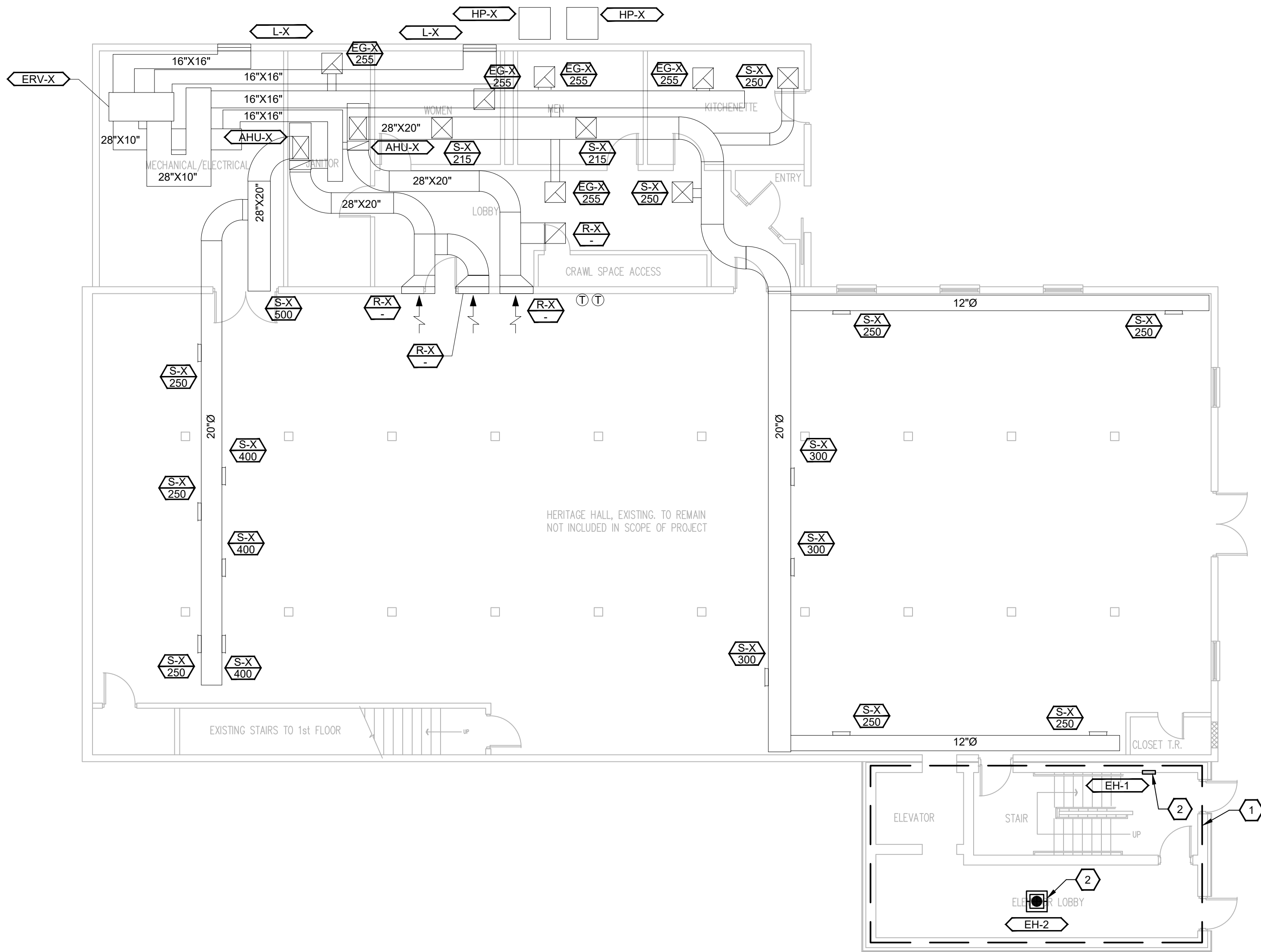
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DRAWING NO.

M-0.0



1 DEMOLITION - LOWER LEVEL (BASEMENT) PLAN - HVAC
1/8" = 1'-0"



2 NEW - LOWER LEVEL (BASEMENT) PLAN - HVAC
1/8" = 1'-0"



GENERAL NOTES

1. REFER TO SHEET M-0.0.
2. MAINTAIN RATINGS OF ALL WALLS AND CEILINGS PENETRATED.

DEMOLITION NOTES

1. EXISTING HVAC EQUIPMENT, DUCTWORK, AND ASSOCIATED CONTROLS IN THIS AREA TO REMAIN UNLESS OTHERWISE NOTED.

SHEET NOTES

1. OUTLINED AREA INDICATES BUILDING NEW ADDITION.
2. THERMOSTAT SHALL BE INTEGRAL TO HEATER. COORDINATE SET POINT WITH OWNER. REFER TO SCHEDULE ON SHEET M-0.0 FOR ADDITIONAL HEATER INFORMATION.



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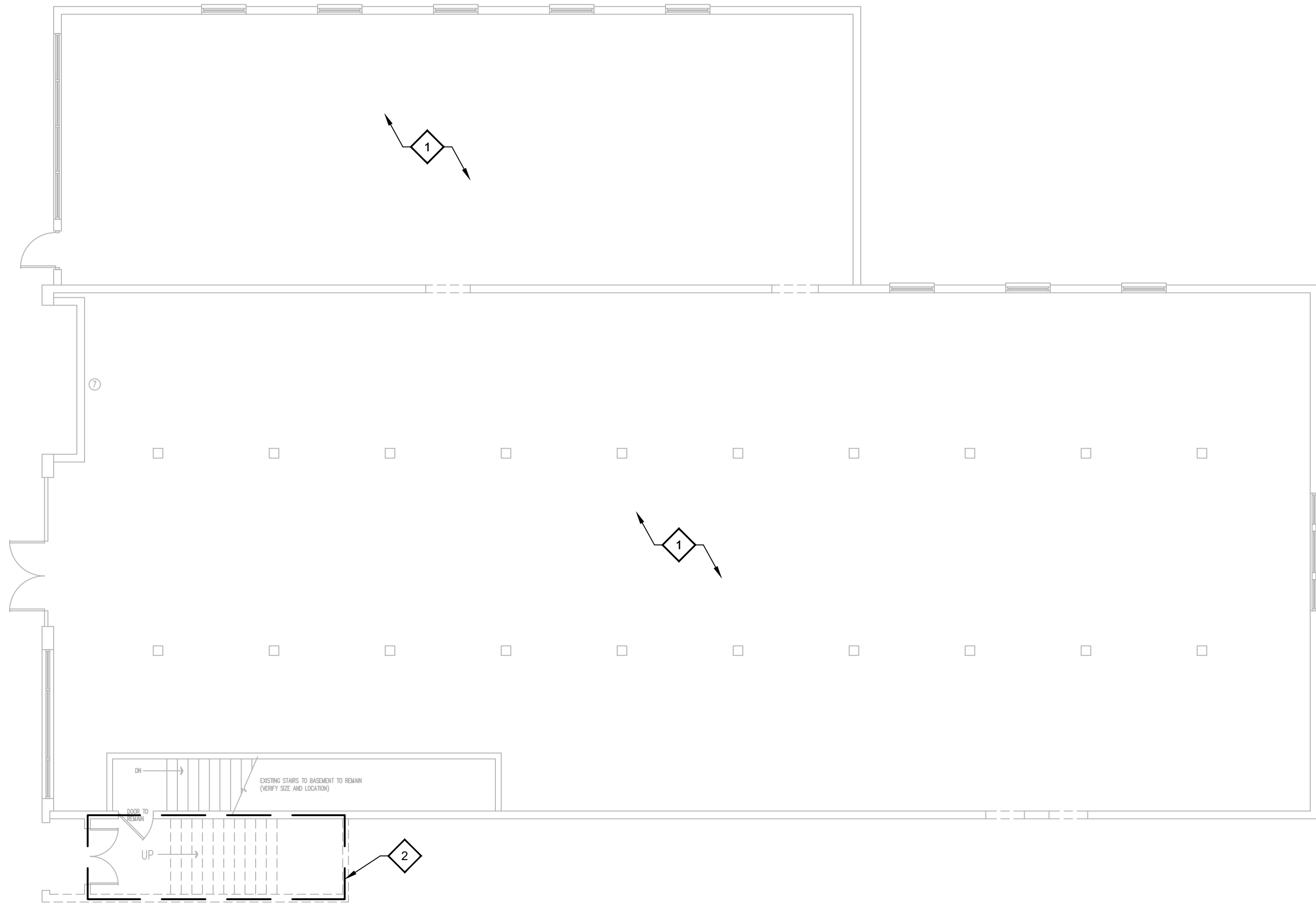
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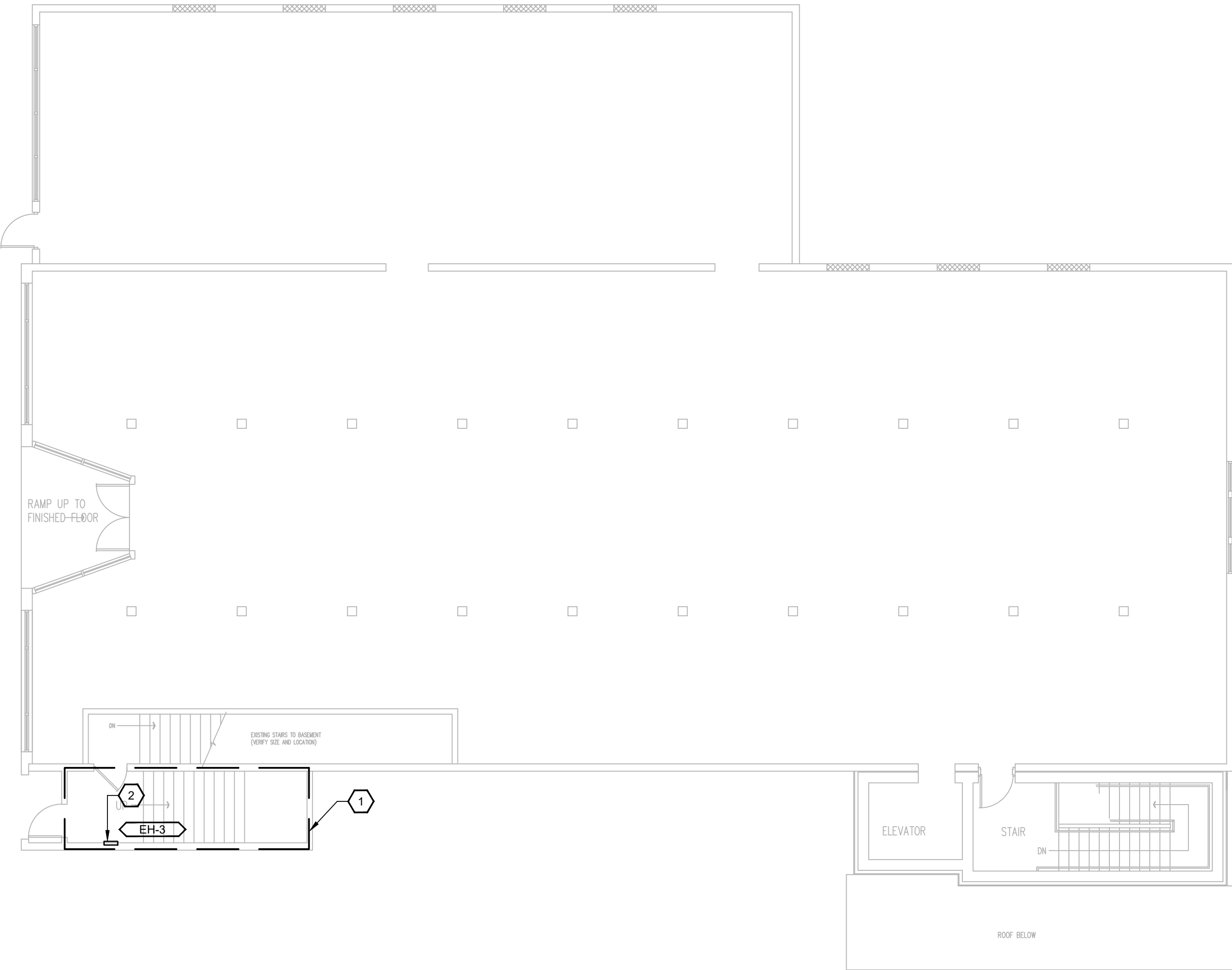
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DRAWING NO.
M-1.1



1 DEMOLITION - 1ST FLOOR (MIDDLE FLOOR) PLAN - HVAC
1/8" = 1'-0"



2 NEW - 1ST FLOOR (MIDDLE FLOOR) PLAN - HVAC
1/8" = 1'-0"



GENERAL NOTES

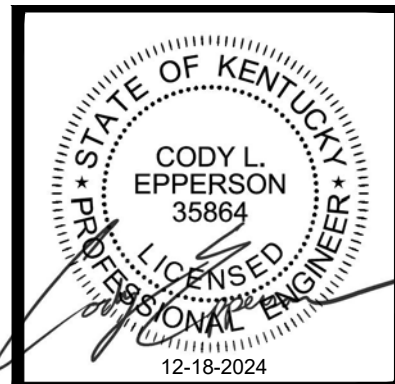
1. REFER TO SHEET M-0.0.
2. MAINTAIN RATINGS OF ALL WALLS AND CEILINGS PENETRATED.

DEMOLITION NOTES

1. AREA TO BE FULLY GUTTED. WHERE APPLICABLE, REMOVE ALL HVAC EQUIPMENT, DUCTWORK, ETC TO PREPARE FOR FIT-UP IN FUTURE PHASE.
2. OUTLINED AREA INDICATES STAIRWELL TO BE DEMOLISHED.

SHEET NOTES

1. OUTLINED AREA INDICATES NEWLY CONSTRUCTED STAIRWELL.
2. THERMOSTAT SHALL BE INTEGRAL TO HEATER. COORDINATE SET POINT WITH OWNER. REFER TO SCHEDULE ON SHEET M-0.0 FOR ADDITIONAL HEATER INFORMATION.



HISTORIC STEARNS
DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

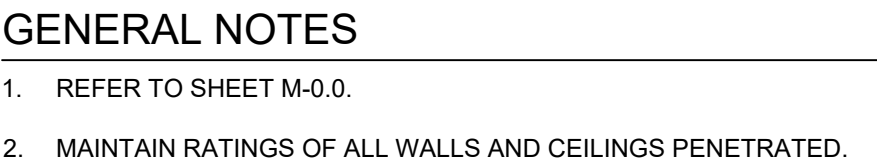
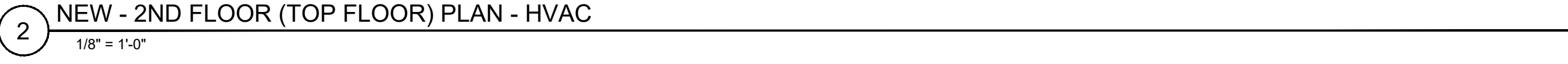
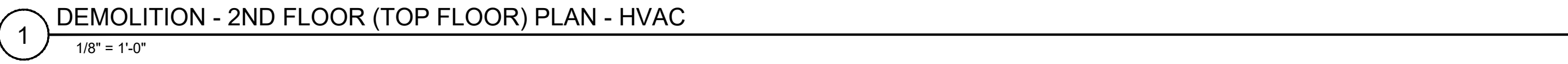
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PROJECT NO.	2124-07
DESIGNED BY	CE
DRAWN BY	CE
CHECKED BY	CE
REVIEWED BY	CE
DATE	DECEMBER 2024
SCALE	AS NOTED

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DRAWING NO.

M-1.3

ELECTRICAL LEGEND

LIGHTING	
SYMBOL	DESCRIPTION
	RECESSED LUMINAIRE
	SURFACE MOUNTED LUMINAIRE
	WALL BRACKET LUMINAIRE (NORMAL & EMERGENCY)
	INDUSTRIAL STRIP LUMINAIRE
	LINEAR LUMINAIRE
	ROUND LUMINAIRE
	DOWNLIGHT LUMINAIRE
	WALL MOUNTED LUMINAIRE
	TWIN-HEAD EMERGENCY LUMINAIRE
	REMOTE HEAD EMERGENCY LUMINAIRE (SINGLE & TWIN)
	COMBINATION EXIT SIGN EMERGENCY LUMINAIRE (WALL & CEILING)
	EXIT SIGN - SINGLE FACE (WALL & CEILING)
	EXIT SIGN - DOUBLE FACE (WALL & CEILING)
	LIGHTING CONTROL TAG - 'X' INDICATES LIGHTING CONTROL RISER NUMBER ASSOCIATED WITH ROOM/AREA
	LIGHT SWITCH - 'X' INDICATES THE FOLLOWING TYPES: 3 - 3 WAY, 4 - 4 WAY, K - KEY OPERATED, D - DIMMER, OS - LINE VOLTAGE OCCUPANCY SENSOR, L - LOW VOLTAGE, M - MANUAL MOTOR STARTER W/ HANDLE GUARD KIT AND PADLOCK. SEE LIGHTING CONTROL RISER SHEETS FOR ADDITIONAL TYPES

POWER	
SYMBOL	DESCRIPTION
	TAMPER RESISTANT DUPLEX RECEPTACLE - 'X' INDICATES THE FOLLOWING: C - ABOVE COUNTER, CM - CEILING MOUNTED, E - EMERGENCY, G - GROUND FAULT CIRCUIT INTERRUPTER, GB - BLANK FACE GROUND FAULT CIRCUIT INTERRUPTER, IG - ISOLATED GROUND, P - PLUG LOAD CONTROL, S - CONTAINS INTEGRAL SURGE PROTECTION WP - WEATHER PROOF, USB - CONTAINS USB PORT(S). (NOTE: 'X' NOTATION DESCRIPTIONS TYPICAL FOR ALL RECEPTACLE TYPES)
	TAMPER RESISTANT QUADRUPEX RECEPTACLE
	TAMPER RESISTANT SINGLE RECEPTACLE
	TAMPER RESISTANT SPECIAL PURPOSE RECEPTACLE
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT WITH END CAP
	EQUIPMENT CONNECTION
	CIRCUIT CONTINUATION
	CIRCUIT HOMERUN TO ELECTRICAL DISTRIBUTION BOARD (SWITCHBOARD, PANELBOARD, ETC.). THE NUMBER OF TICK MARKS INDICATE QUANTITY OF PHASE AND NEUTRAL CONDUCTORS. LONG TICK MARKS REPRESENT PHASE (UNGROUNDDED) CONDUCTORS. SHORT TICK MARKS REPRESENT NEUTRAL (GROUNDDED) CONDUCTORS. A GROUNDING CONDUCTOR IS NOT SHOWN AS A TICK MARK HOWEVER SHALL BE INSTALLED WITH ALL CIRCUITS. TICK MARKS AND CONDUCTOR SIZES ARE ONLY SHOWN ON THE HOMERUN. INSTALL THE REQUIRED QUANTITY AND SIZE OF CONDUCTORS TO EACH DEVICE ON THE SAME CIRCUIT AS INDICATED ON THE DRAWINGS. IF CONDUCTOR SIZES NOT SHOWN ON HOMERUN, THE FOLLOWING IS REQUIRED: MINIMUM CONDUCTOR SIZE = #12 MINIMUM CONDUIT SIZE = 3/4 INCH CIRCUIT NOTATION EXAMPLE: 4#10 = (3) #10 PHASE CONDUCTORS AND (1) #10 NEUTRAL CONDUCTOR 1#10G = (1) #10 GROUNDING CONDUCTOR 3/4"C = CONDUIT SIZE P-1 = DISTRIBUTION BOARD "P" - STARTING POLE POSITION IN BOARD
	SURFACE MOUNTED PANELBOARD (DISTRIBUTION & BRANCH CIRCUIT); 'X' INDICATES IDENTIFICATION
	FLUSH MOUNTED PANELBOARD (BRANCH CIRCUIT); 'X' INDICATES IDENTIFICATION
	EMERGENCY SHUT-OFF BUTTON
	JUNCTION BOX
	DISCONNECT SWITCH (SIZE/POLES/NEMA - INDICATED ON DRAWINGS)
	DISCONNECT SWITCH WITH ENCLOSED FUSE(S) OR CIRCUIT BREAKER (SIZE/POLES/FUSING/NEMA - INDICATED ON DRAWINGS)

EXISTING VS DEMOLITION LINE WEIGHTS	
EXISTING	DEMOLITION

FIRE ALARM	
SYMBOL	DESCRIPTION
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM NOTIFICATION DEVICE (WALL & CEILING); 'X' INDICATES THE FOLLOWING: S - STROBE, SS - SPEAKER/STROBE, HS - HORN/STROBE, SP - SPEAKER
	FIRE ALARM INITIATION DEVICE (WALL & CEILING); 'X' INDICATES THE FOLLOWING: S - SMOKE, H - HEAT, CO - CARBON MONOXIDE, CS - COMBINATION CARBON MONOXIDE/SMOKE, CH - COMBINATION CARBON MONOXIDE/HEAT
	FIRE ALARM INITIATION DEVICE WITH INTEGRAL LOW FREQUENCY SOUNDER BASE (WALL & CEILING); 'X' INDICATES THE FOLLOWING: S - SMOKE, H - HEAT, CO - CARBON MONOXIDE, CS - COMBINATION CARBON MONOXIDE/SMOKE, CH - COMBINATION CARBON MONOXIDE/HEAT (SEE DRAWINGS FOR INSTANCES WHERE ADDITIONAL STROBE NOTIFICATION IS REQUIRED FOR ADA COMPLIANCE)
	FIRE ALARM DUCT TYPE SMOKE DETECTOR; 'X' INDICATES ASSOCIATED HVAC EQUIPMENT IDENTIFICATION
	FIRE ALARM MAGNETIC DOOR HOLDER (WALL & CEILING)
	FIRE ALARM ADDRESSABLE MODULE
	FIRE ALARM ANNUNCIATOR PANEL (SURFACE & FLUSH)
	FIRE ALARM CONTROL PANEL (SURFACE & FLUSH)

ABBREVIATIONS	
1Ø	1-PHASE
3Ø	3-PHASE
+X'	INDICATES MOUNTING HEIGHT TO BOTTOM OF DEVICE
C	DEVICE TO BE INSTALLED 4 INCHES ABOVE COUNTER BACKSPLASH TO BOTTOM OF DEVICE
GF	GROUND FAULT PROTECTION
GND	GROUND
KWH	KILOWATT HOUR
SPD	SURGE PROTECTION DEVICE
W	DEVICE TO BE INSTALLED 42" ABOVE FLOOR TO BOTTOM OF DEVICE
WG	PROVIDE DEVICE WITH MANUFACTURER'S WIREGAURD
WP	PROVIDE DEVICE WITH VERTICALLY MOUNTED WEATHERPROOF COVER. RECEPTACLES TO BE WEATHER-RESISTANT TYPE AND PROVIDED WITH A CAST ALUMINUM, EXTRA DUTY, WHILE-IN-USE COVER

ELECTRICAL DEVICE MOUNTING HEIGHTS	
COMMUNICATION / MULTIMEDIA OUTLETS	16 INCHES TO BOTTOM
INTERIOR RECEPTACLES	16 INCHES TO BOTTTOM
EXTERIOR RECEPTACLES	24 INCHES TO BOTTOM
SWITCHES	48 INCHES TO TOP
WALL TELEPHONES	48 INCHES TO TOP
FIRE ALARM MANUAL PULL STATIONS	48 INCHES TO TOP
FIRE ALARM STROBE SIGNAL	80 INCHES TO BOTTOM
FIRE ALARM HORN/STROBE SIGNAL	80 INCHES TO BOTTTOM
NOTE: MOUNTING HEIGHTS UNLESS OTHERWISE NOTED ON DRAWINGS	

ELECTRICAL NOTES

GENERAL

- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, PER INDUSTRY STANDARD, AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
- WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
- ALL MATERIALS USED IN THE INSTALLATION SHALL BE U.L. APPROVED AND NEW.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOF, ETC.
- DETAILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHETHER OR NOT CALLED IN REFERENCE NOTES.
- CONTRACTOR SHALL NOTIFY AND COOPERATE WITH OTHER TRADES SUCH THAT NO DUCTS, PIPING, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER, OR PASS THROUGH ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- NO WIRING SHALL RUN IN DUCT WORK.
- THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THHN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. STRANDED CONDUCTORS ARE NOT ALLOWED IN THE CONDUCTORS SMALLER THAN #10 AWG.
- USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTED.
- THE CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
- CONTRACTOR SHALL REVIEW ALL ARCHITECT'S ELEVATIONS, SECTIONS AND FLOOR PLANS PRIOR TO ROUGH-IN OF ELECTRICAL JUNCTION BOXES.
- ALL JUNCTION BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL JUNCTION BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER PLASTER RINGS.
- REFER TO ARCHITECTURAL CABINET CASEWORK ELEVATION DRAWINGS FOR CLARIFICATION ON MOUNTING AND PLACEMENT OF ALL RACEWAY, RECEPTACLES, AND SWITCHES.
- MANY DEVICE MOUNTING LOCATIONS ARE DEPENDENT ON MILLWORK LOCATIONS. COORDINATE ALL APPLICABLE LOCATIONS WITH MILLWORK INSTALLER PRIOR TO BEGINNING WORK.
- LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH ONE PIECE COVER PLATE.
- CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR COORDINATION.
- CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES, AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING, AND CEILING INSTALLATIONS.
- CONNECT ALL EMERGENCY LIGHT FIXTURES, NIGHT LIGHTS, EGRESS LIGHTS, AND EXIT SIGNS TO UNSWITCHED CONDUCTOR(S), IF APPLICABLE.
- THE CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC.
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL THE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS PRIOR TO BEGINNING ROUGH-IN.
- VERIFY EXACT LOCATION(S) OF ALL EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
- AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL JUNCTION BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.

LIGHTING

- THE CONTRACTOR SHALL INSTALL THE REQUIRED NUMBER OF CONDUCTORS BETWEEN SWITCHES, LIGHT FIXTURES AND ASSOCIATED DEVICES FOR A COMPLETE AND WORKING SYSTEM. PROVIDE SINGLE-LEVEL OR DUAL-LEVEL SWITCHING, THREE-WAY SWITCHING OR OTHER SWITCHING METHOD AS INDICATED ON THE DRAWINGS.
- INSTALL AN UNSWITCHED CONDUCTOR TO ALL EXIT LIGHTS, EMERGENCY LIGHTS AND ALL OTHER FIXTURES USED FOR EMERGENCY ILLUMINATION AND SUPPLIED WITH INTEGRAL OR EXTERNAL BATTERIES.

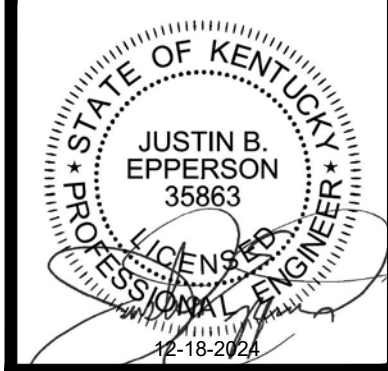
SYSTEMS

- ALL FIRE ALARM CABLING SHALL BE INSTALLED WITHIN A MINIMUM OF 1 INCH CONDUIT WHEN ROUTED INSIDE WALLS, THROUGH WALLS, ABOVE INACCESSIBLE CEILING, AND IN AREAS WITH EXPOSED CEILINGS. J-HOOKS ONLY PERMITTED ABOVE ACCESSIBLE CEILINGS (SHALL BE RAN INDEPENDENTLY - I.E. NOT GROUPED WITH OTHER LOW VOLTAGE CABLING) .
- ALL NETWORK CABLING SHALL BE CAT6 AND INSTALLED WITHIN A MINIMUM OF 1 INCH CONDUIT WHEN ROUTED INSIDE WALLS, THROUGH WALLS, ABOVE INACCESSIBLE CEILING, AND IN AREAS WITH EXPOSED CEILINGS. J-HOOKS ONLY PERMITTED ABOVE ACCESSIBLE CEILINGS.

ELEVATOR

- COORDINATE THE LOCATION OF ALL ELECTRICAL EQUIPMENT WITH THE ELEVATOR INSTALLER.
- PROVIDE A DEDICATED 4-PAIR, CATEGORY 6, UTP TELEPHONE CABLE FROM THE TELEPHONE SERVICE DEMARCATION TO THE ELEVATOR CONTROLLER.
- PROVIDE ALL CONNECTIONS BETWEEN THE FIRE ALARM SYSTEM, SHUNT-TRIP BREAKER, AND THE ELEVATOR CONTROLLER. THE FIRE ALARM SYSTEM SHALL MONITOR THE SHUNT-TRIP CIRCUIT, OPERATE/ OPEN THE SHUNT-TRIP BREAKER, AND INITIATE ELEVATOR RECALL.
- PROVIDE THE SHUNT-TRIP BREAKER AND/OR DISCONNECT SWITCH CONNECTED TO THE MAIN LINE CIRCUIT WITH AUXILIARY CONTACTS. THE AUXILIARY CONTACTS WILL BE UTILIZED AS A DISCONNECTING MEANS FOR THE ELEVATOR CONTROLLER'S BATTERY OPERATED LOWERING DEVICE.
- ALL NON-ELEVATOR RELATED CONDUITS, EQUIPMENT, WIRING, ETC. SHALL BE PROHIBITED FROM ENTERING OR PASSING THROUGH THE ELEVATOR MACHINE ROOM (IF APPLICABLE) AND/OR ELEVATOR SHAFT.

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HISTORIC STEARNS
DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

DATE	REVISION	BY
PROJECT NO. 2194-07	DESIGNED BY JE	
	DRAWN BY JE	
	CHECKED BY JE	
	REVIEWED BY JE	
DATE	DECEMBER 2024	
SCALE	AS NOTED	

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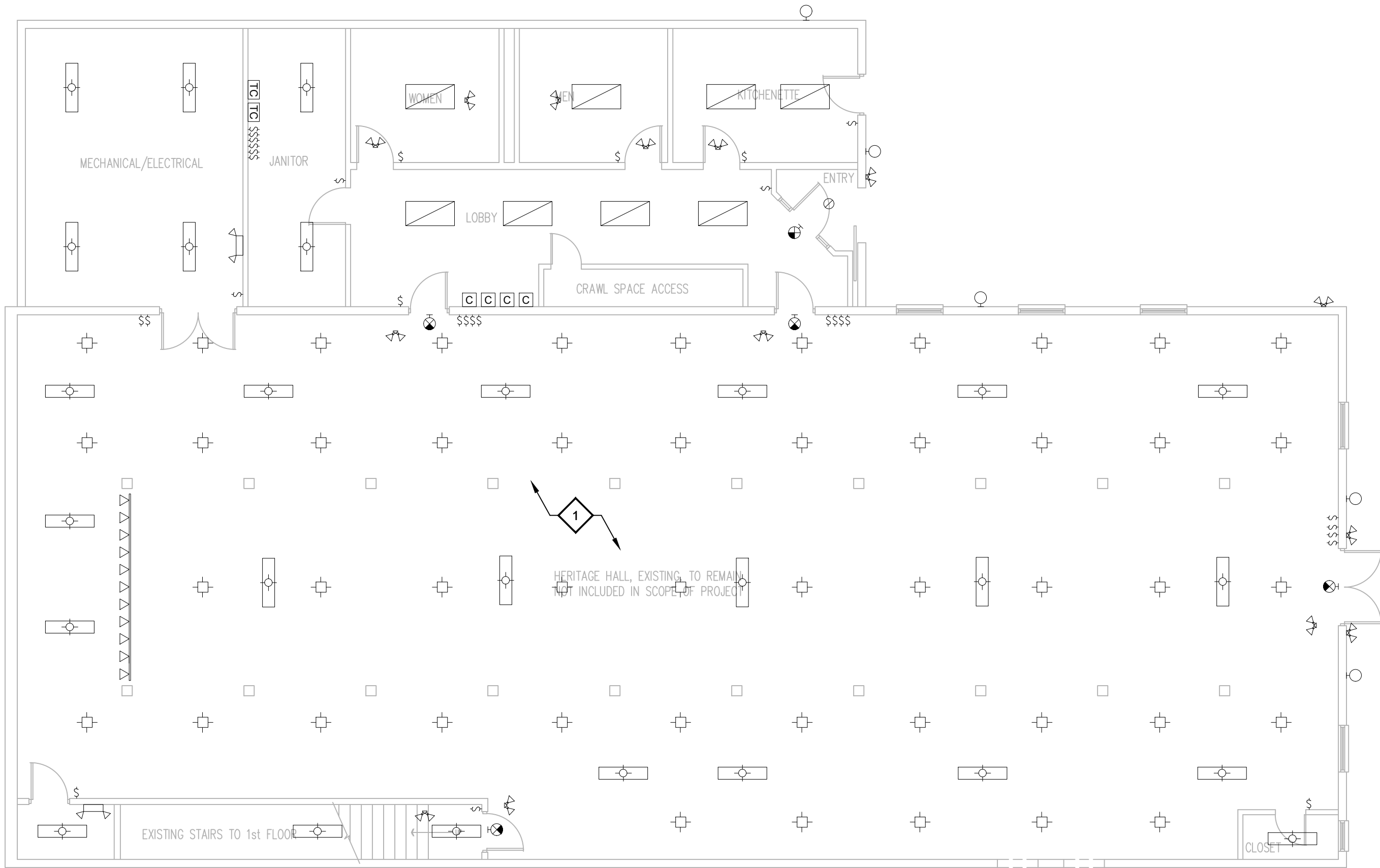
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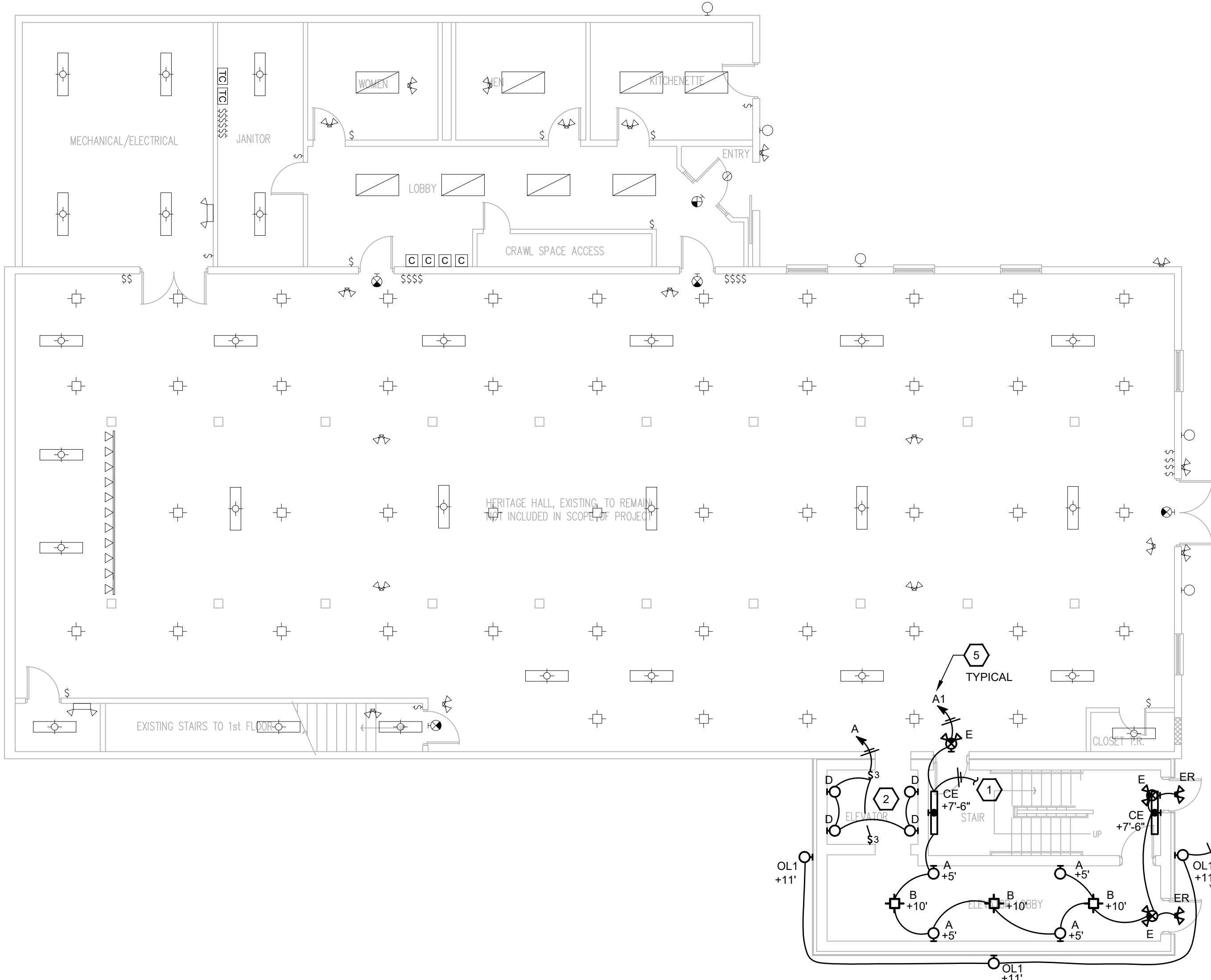
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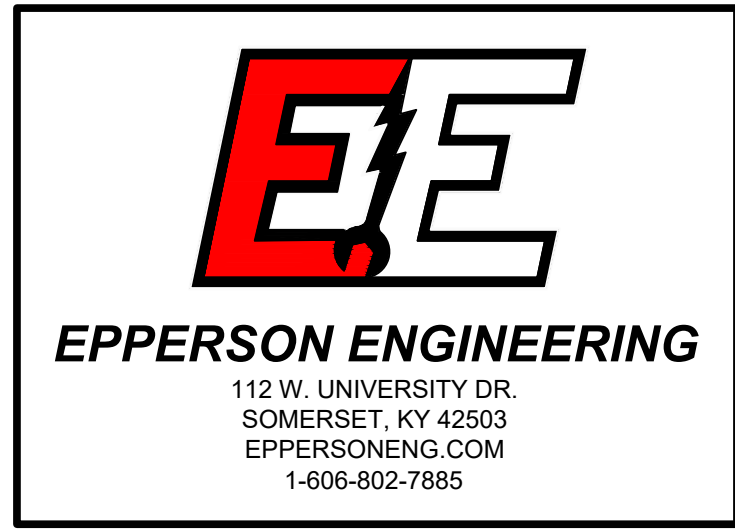
SHEET INDEX	
SHEET NUMBER	SHEET TITLE
E-0.0	ELECTRICAL LEGEND & NOTES
E-1.1	LIGHTING PLAN
E-1.2	LIGHTING PLAN
E-1.3	LIGHTING PLAN
E-2.1	POWER & SYSTEMS PLAN
E-2.2	POWER & SYSTEMS PLAN
E-2.3	POWER & SYSTEMS PLAN
E-6.1	ELECTRICAL SCHEDULES
E-7.1	ELECTRICAL SPECIFICATIONS



1 DEMOLITION - LOWER LEVEL (BASEMENT) PLAN - LIGHTING
1/8" = 1'-0"



2 NEW - LOWER LEVEL (BASEMENT) PLAN - LIGHTING
1/8" = 1'-0"



GENERAL NOTES

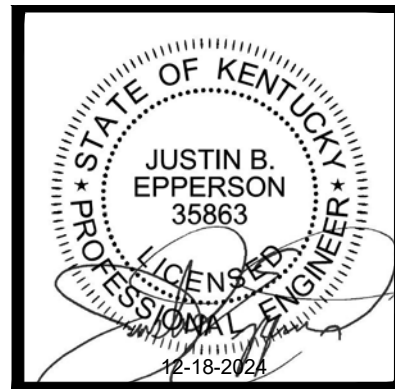
1. REFER TO SHEET E-0.0.
2. MAINTAIN RATINGS OF ALL WALLS AND CEILINGS PENETRATED.
3. LIGHTING IN ELEVATOR LOBBY AND ADJACENT STAIRWELL SHALL ALWAYS BE ON. DISCONNECTING MEANS SHALL BE LOCATED AT THE ASSOCIATED CIRCUIT BREAKER.

DEMOLITION NOTES

1. EXISTING LIGHT FIXTURES AND ASSOCIATED CONTROLS IN THIS AREA TO REMAIN UNLESS OTHERWISE NOTED.

SHEET NOTES

1. CONTINUATION TO STAIRWELL LIGHT FIXTURES ABOVE, REFER TO SHEET E-1.2 FOR ADDITIONAL INFORMATION.
2. COORDINATE LOCATION OF TYPE 'D' LIGHT FIXTURES AND ASSOCIATED SWITCHES WITH PIT CONSTRUCTION AND ELEVATOR INSTALLER. ELEVATOR PIT LIGHTING SHALL BE ON DEDICATED CIRCUIT.
3. INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO BOTTOM OF LIGHT FIXTURE. TYPICAL.
4. CONNECT TO NEARBY SWITCHED EXTERIOR LIGHTING CIRCUIT.
5. CONNECT CIRCUIT TO NEW 20A/1P CIRCUIT BREAKER IN PANEL INDICATED. TYPICAL.



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DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

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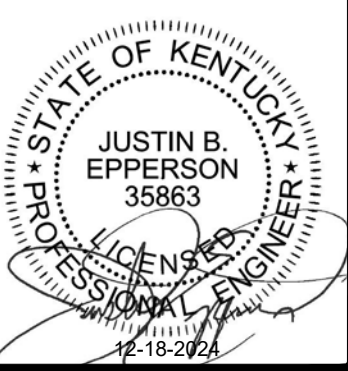
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E-1.1



1. CONTINUATION TO STAIRWELL LIGHT FIXTURES ABOVE, REFER TO SHEET E-1.3 FOR ADDITIONAL INFORMATION.
2. CONNECT CIRCUIT TO NEW 20A/1P CIRCUIT BREAKER IN PANEL INDICATED.
3. INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO BOTTOM OF LIGHT FIXTURE.
4. CONNECT TO NEARBY SWITCHED EXTERIOR LIGHTING CIRCUIT.

2 NEW - 1ST FLOOR (MIDDLE FLOOR) PLAN - LIGHTING
1/8" = 1'-0"

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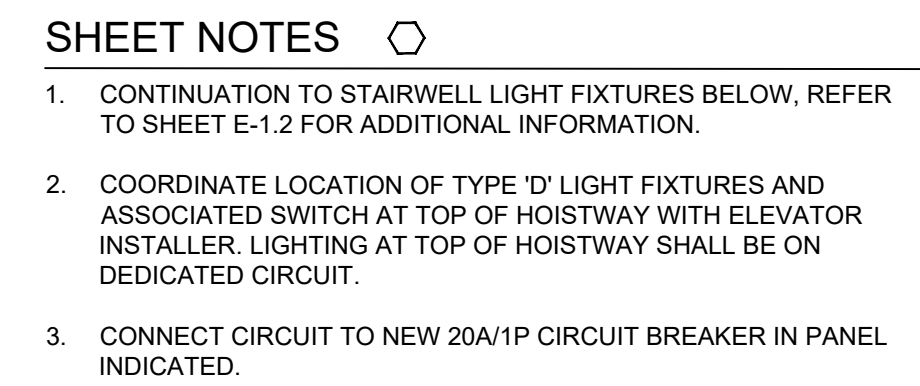
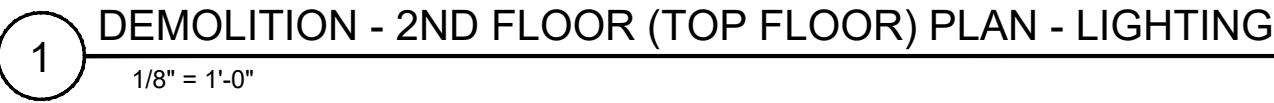
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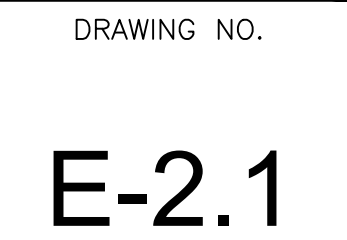
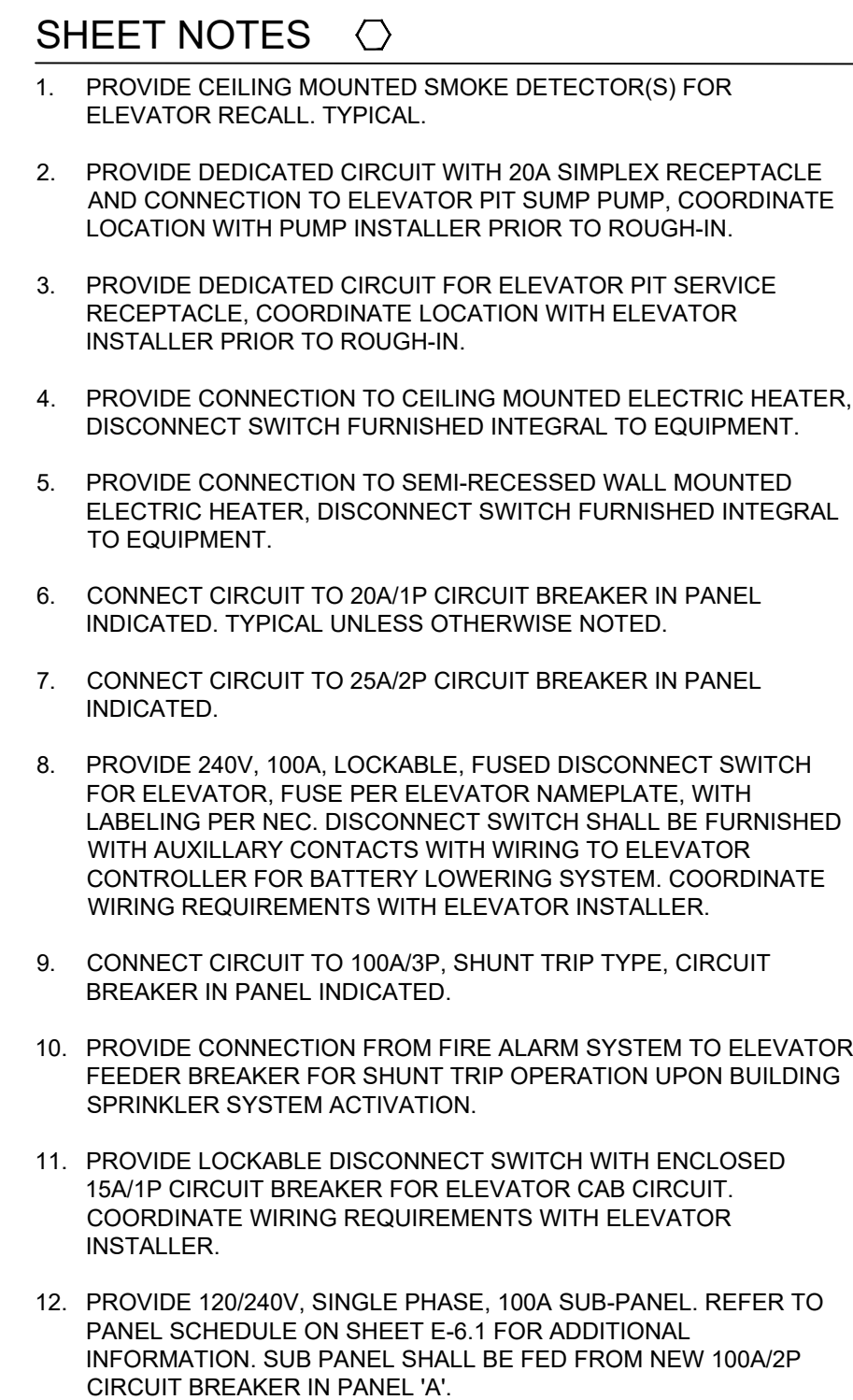
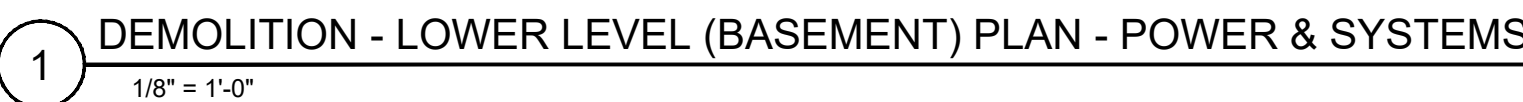
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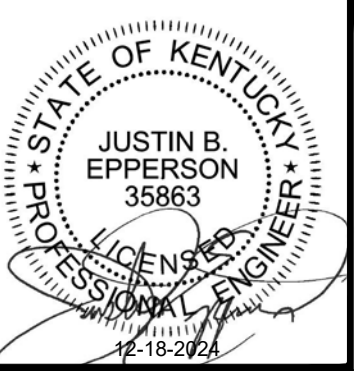
E-1.2



DRAWING NO.

E-1.3





HISTORIC STEARNS
DOWNTOWN REVITALIZATION
STORE 1 & 3 RENOVATION
STEARNS, KENTUCKY

1. REFER TO SHEET E-0.0.
2. MAINTAIN RATINGS OF ALL WALLS AND CEILINGS PENETRATED.
3. ALL NEW FIRE ALARM DEVICES SHALL CONNECT TO EXISTING BUILDING FIRE ALARM SYSTEM.

1. AREA TO BE FULLY GUTTED, WHERE APPLICABLE, REMOVE ALL POWER/SYSTEMS EQUIPMENT, DEVICES, AND ASSOCIATED CONDUIT/WIRING BACK TO SOURCE TO PREPARE FOR FIT-UP IN FUTURE PHASE.
2. REMOVE EXISTING PANELBOARD IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONDUIT/WIRING.
3. EXISTING TO REMAIN IN THIS AREA UNLESS OTHERWISE NOTED.
4. OUTLINED AREA INDICATES STAIRWELL TO BE DEMOLISHED. REMOVE ALL POWER/SYSTEM DEVICES IN THIS AREA PRIOR TO STAIRWELL DEMOLITION. MAINTAIN CIRCUIT CONTINUITY FOR ALL DOWNSTREAM DEVICES ON SAME CIRCUITRY NOT SHOWN TO BE REMOVED. TYPICAL.

1. PROVIDE NEW FIRE ALARM APPLIANCES AND RECONNECT TO EXISTING CIRCUITRY PREVIOUSLY SERVING APPLIANCES IN THIS AREA.
2. PROVIDE CONNECTION TO SEMI-RECESSED WALL MOUNTED ELECTRIC HEATER, DISCONNECT SWITCH FURNISHED INTEGRAL TO EQUIPMENT.
3. CONNECT CIRCUIT TO 20A/2P CIRCUIT BREAKER IN PANEL INDICATED. TYPICAL.



DATE	RELATION	DATE

DESIGN DOCUMENTS

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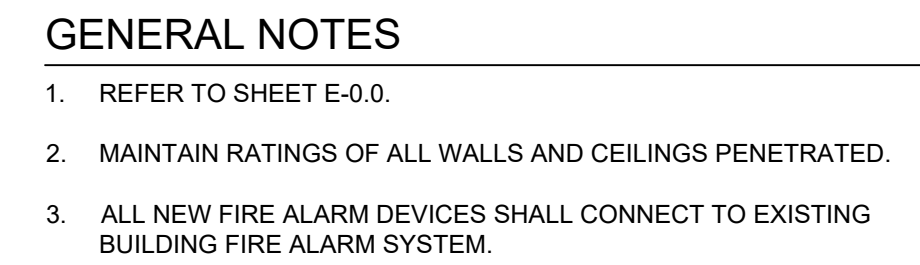
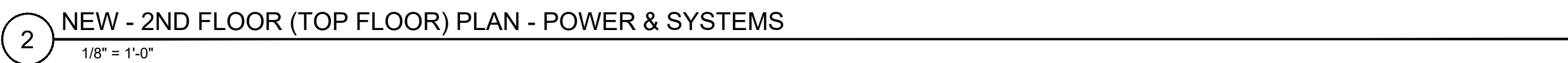
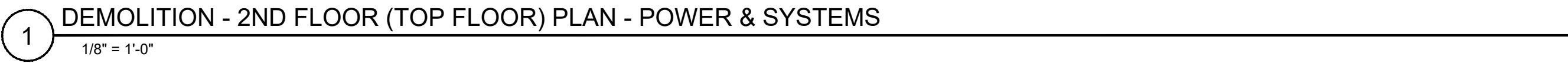
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RAWING NO.

E-2.2



SHEET NOTES

1. PROVIDE CONNECTION TO ELEVATOR CONTROLLER FROM MAIN TELEPHONE SERVICE ENTRANCE TERMINAL BOARD.
COORDINATE WIRING REQUIREMENTS WITH ELEVATOR INSTALLER.
2. PROVIDE CONNECTION FROM FIRE ALARM SYSTEM TO ELEVATOR CONTROLLER FOR INITIATION OF ELEVATOR RECALL OPERATION BY ASSOCIATED SMOKE DETECTORS.
3. PROVIDE DEDICATED CIRCUIT FOR SERVICE RECEPTACLE AT TOP OF ELEVATOR HOISTWAY. COORDINATE LOCATION WITH ELEVATOR INSTALLER PRIOR TO ROUGH-IN.
4. CONNECT CIRCUIT TO 20A/1P CIRCUIT BREAKER IN PANEL INDICATED.
5. PROVIDE SMOKE AND HEAT DETECTORS AT TOP OF ELEVATOR HOISTWAY. COORDINATE EXACT LOCATION WITH ELEVATOR INSTALLER.
6. PROVIDE 240V, 100A, LOCKABLE, NON-FUSED DISCONNECT SWITCH AT TOP OF ELEVATOR HOISTWAY AND LABEL PER NEC. DISCONNECT SWITCHED FROM ASSOCIATED DISCONNECT SWITCH AT BASEMENT MECHANICAL ROOM. SEE SHEET E-2.1. COORDINATE EXACT LOCATION IN HOISTWAY WITH ELEVATOR INSTALLER.



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E-2.3



EPPERSON ENGINEERING
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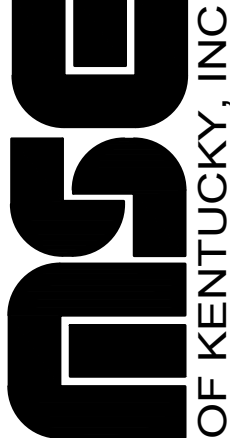


HISTORIC STEARNS
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STEARNS, KENTUCKY

LIGHT FIXTURE SCHEDULE											
FIXTURE TYPE	DESCRIPTION	MOUNTING	VOLTAGE	LAMPS						MANUFACTURER/MODEL NUMBER	NOTES
				TYPE	LUMENS	WATTS	DIMMING	CRI	COLOR TEMP		
A	8" x 4.3" WALL SCONCE WITH FROSTED RIBBED GLASS AND CROSSHATCHED ALUMINUM ENCLOSURE; ADA COMPLIANT	WALL	120	-	-	60 (MAX)	N/A	≥80	3500K	BARN LIGHT ELECTRIC: BLE-W-BULKOS	1,4,5
B	14" SCHOOLHOUSE GLOBE PENDANT WITH OPAQUE GLASS AND ALUMINUM MOUNTING STEM (INCLUDE HEAVY DUTY STEM MOUNT CANOPY)	PENDANT	120	-	-	100 (MAX)	N/A	≥80	3500K	BARN LIGHT ELECTRIC: BLE-S-SCH14	1,6
CE	4' LINEAR WITH CRESCENT-SHAPE REFRACTOR AND DECORATIVE DIE-CAST END CAPS; INTEGRATED OCCUPANCY SENSOR; INTEGRAL 1400 LUMEN BATTERY	WALL	MVOLT	LED	4124	40	0-10V DIM TO 10%	≥80	3500K	LITHONIA: WL4 40L GZ10 LP835 MSD7 DIM50 EL14L	
D	JELLY JAR WITH CAST ALUMINUM HOUSING AND FROSTED GLASS DIFFUSER; WET LOCATION LISTED	WALL	MVOLT	LED	600	15	N/A	N/A	4000K	LITHONIA: OLVTTWM	
E	EXIT SIGN WITH TWIN EMERGENCY LAMPS; NI-CAD BATTERY BACKUP FOR 90 MINUTES; INTEGRAL TEST SWITCH; REMOTE HEAD CAPACITY	VARIES (SEE PLANS)	MVOLT	LED	N/A	4.3	N/A	N/A	N/A	LITHONIA: LHQM LED HO	1,2
ER	TWIN REMOTE HEAD FOR EMERGENCY EGRESS. POWERED VIA ADJACENT EXIT SIGN FIXTURE TYPE 'E'; WET LOCATION LISTED	WALL	N/A	LED	N/A	1.5/HEAD	N/A	N/A	N/A	LITHONIA: ELA T QWP L0309	1,2
OL1	EXTERIOR GOOSENECK FIXTURE WITH INDUSTRIAL SHADE AND ALUMINUM CONSTRUCTION; WET LOCATION LISTED	WALL	120	-	-	200 (MAX)	N/A	≥70	-	BARN LIGHT ELECTRIC: BLE-G-WHS	3,7
NOTES											
1. ARCHITECT TO SELECT COLOR/FINISH											
2. CENTER ABOVE DOOR WHERE APPLICABLE											
3. FIELD VERIFY SHADE WIDTH AND COLOR OF EXISTING EXTERIOR GOOSENECK LIGHT FIXTURES PRIOR TO ORDERING. NEW EXTERIOR LIGHT FIXTURES SHALL MATCH EXISTING AS CLOSE AS POSSIBLE.											
4. PROVIDE MEDIUM BASE E26 LAMP (60W MAX) WITH COLOR TEMPERATURE SPECIFIED											
5. VERTICAL MOUNT, ADA COMPLIANT											
6. PROVIDE MEDIUM BASE E26 LAMP (100W MAX) WITH COLOR TEMPERATURE SPECIFIED											
7. FIELD VERIFY WATTAGE AND COLOR TEMPERATURE OF EXISTING LAMPS IN EXISTING EXTERIOR GOOSENECK LIGHT FIXTURES; LAMPS IN NEW EXTERIOR LIGHT FIXTURES SHALL MATCH EXISTING AS CLOSE AS POSSIBLE.											

PANEL 'A1'														
BRANCH CIRCUIT PANELBOARD														
VOLTAGE		1 PHASE		POLES		MAIN AMPS		MAIN TYPE		A. I. RATING		MOUNTING		
120/208		3 WIRE		18		100		MLO		10,000		SURFACE		
POLE NO.	BREAKER TRIP	P	LOAD SERVED			PHASE LOADS				LOAD SERVED		BREAKER		POLE NO.
						KVA	A	B	KVA			TRIP	P	
1	25	2	EH-1			2.0	2.4		0.4	REC: ELEV LOBBY		20	1	2
3			-			2.0		2.2	0.2	REC: EXTERIOR		20	1	4
5	20	1	EH-2			1.5	2.0		0.5	LTS: STAIRWELL - 1ST FLOOR		20	1	6
7	20	2	EH-3			1.3		2.3	1.0	LTS: ELEV LOBBY/STAIRWELL		20	1	8
9			-			1.3	1.3		0.0	SPARE		20	1	10
11			SPACE			0.0		0.0	0.0	SPARE		20	1	12
13			SPACE			0.0	0.0		0.0	SPARE		20	1	14
15			SPACE			0.0		0.0	0.0	SPARE				16
17			SPACE			0.0	0.0		0.0	SPARE				18
PHASE TOTALS:							5.6	4.5		TOTAL:	10.06	KVA		
NOTES:						ABBREVIATIONS:								
1. PANEL FED FROM NEW 100A/2P CIRCUIT BREAKER IN PANEL 'A'						G - GFCI BREAKER								
						A - AFCI BREAKER								
						L - LOCKOUT BREAKER								
						S - SHUNT TRIP BREAKER								
						C - COMBINATION GFCI/AFCI BREAKER								
						MCB - MAIN CIRCUIT BREAKER								
						MLO - MAIN LUG ONLY								

DATE		REVISION		BY	
DESIGN DOCUMENTS: We warrant that we have any and all responsibility and liability for problems which arise from failure to follow these plans, specifications and the design intent they convey.					
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PROJECT NO. 2124-07					
DESIGNED BY		JE			
DRAWN BY		JE			
CHECKED BY		JE			
REVIEWED BY		JE			
DATE		DECEMBER 2024			
SCALE		AS NOTED			



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DRAWING NO.

E-6.1

ELECTRICAL SPECIFICATIONS

GENERAL PROVISIONS

- REFERENCE
 - THE INSTRUCTION TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, ALTERNATES, ADDENDA, CONTRACT DRAWINGS AND SPECIFICATIONS AS SET FORTH IN THE FORTHGOING PAGES ARE HEREBY INCORPORATED INTO AND BECOME A PART OF THE SPECIFICATIONS FOR WORK UNDER THIS TITLE.
 - ALL SPECIFICATIONS UNDER THIS DIVISION TITLE ARE DIRECTED TO AND ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UNLESS OTHER TRADES OR PERSONS ARE SPECIFICALLY MENTIONED, "ELECTRICAL CONTRACTOR" IS INFERRED AND INTENDED.
 - DEFINITIONS
 - THE TERM "FURNISH" SHALL MEAN TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.
 - THE TERM "INSTALL" SHALL MEAN WORK WHICH INCLUDES THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.
 - THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
 - EXISTING SITE CONDITIONS
 - THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH THE CONDITIONS AFFECTING THE INSTALLATION. SUBMISSION OF A PROPOSAL SHALL PURPOSE KNOWLEDGE OF SUCH CONDITIONS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED WHERE EXTRA LABOR OR MATERIALS ARE REQUIRED BECAUSE OF IGNORANCE OF THESE CONDITIONS.
 - CONTRACT DRAWINGS
 - THE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE AS IF CALLED FOR BY BOTH. IF IN ANY INSTANCE CONFLICTING STATEMENTS OCCUR, THE CONTRACTOR SHALL INCLUDE THE MORE EXPENSIVE OF THE TWO.
 - CONSULT ALL CONTRACT DRAWINGS (ARCHITECTURAL, MECHANICAL AND ALL OTHERS) WHICH MAY AFFECT THE LOCATION OF EQUIPMENT, CONDUIT AND WIRING AND MAKE MINOR ADJUSTMENTS IN LOCATIONS TO SECURE COORDINATION.
 - IT IS THE PURPOSE OF THE ELECTRICAL DRAWINGS TO INDICATE THE APPROXIMATE LOCATION OF ALL EQUIPMENT, OUTLETS, ETC. ASCERTAIN EXACT LOCATIONS AND ARRANGE WORK ACCORDINGLY.
 - WIRING LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS.
 - OTHER THAN MINOR ADJUSTMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.
 - INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, SERVICES AND PERMITS NECESSARY FOR THE PROPER COMPLETION OF ALL ELECTRIC WORK SHOWN. ITEMS OMITTED, BUT NECESSARY, TO MAKE THE ELECTRICAL SYSTEM COMPLETE AND WORKABLE SHALL BE UNDERSTOOD TO FORM PART OF THE WORK.
 - PERMITS AND INSPECTIONS
 - SECURE AND PAY PERMITS AND INSPECTIONS REQUIRED FOR THE ELECTRICAL WORK.
 - JOB-SITE COPY OF DOCUMENTS
 - MAINTAIN AT THE SITE ONE-COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, APPROVED SHOP DRAWINGS, CHANGE ORDERS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES AS A PERMANENT RECORD OF THE INSTALLATION AS CONSTRUCTED. THE DRAWINGS MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE FOR THE OWNER UPON COMPLETION OF THE WORK.
 - MANUFACTURER'S DRAWINGS
 - THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW (1) COPIES OF MANUFACTURER'S DRAWINGS AND CUT SHEETS. THE ENGINEER WILL REVIEW CONTRACTOR'S 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 SYSTEM DESIGNED BY THE ENGINEER. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THE ENGINEER, CONTRACTOR SHALL REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAM INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF CONTRACTOR; APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE ENGINEER SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPROMISES A VARIATION UNLESS CONTRACTOR ADVISES ENGINEER OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY ENGINEER IN WRITING. THE ITEMS, TYPES OF SUBMITTALS AND RELATED MATERIAL (IF ANY) CALLED FOR ARE INDICATED BELOW:

SHOP DRAWING LOG ITEMS - SUBMITTAL REQUESTED:

ELECTRICAL POWER CONDUCTORS AND CABLES - CUT SHEETS

RACEWAY AND BOXES - CUT SHEETS

LIGHTING CONTROLS - CUT SHEETS

WIRING DEVICES - CUT SHEETS

ENCLOSED SWITCHES AND CIRCUIT BREAKERS - CUT SHEETS

LIGHT FIXTURES - CUT SHEETS
 - GUARANTEES
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION AS DETERMINED BY THE OWNER'S REPRESENTATIVE. PRODUCT GUARANTEES GREATER THAN ONE (1) YEAR SHALL BE REGISTERED AND OR TRANSFERRED TO THE OWNER FOR THE FULL BENEFIT/EXTENT OF THE MANUFACTURER'S WARRANTY.
 - OPERATION PRIOR TO COMPLETION: WHEN ANY MECHANICAL OR ELECTRICAL EQUIPMENT IS OPERATED DURING CONSTRUCTION THE WARRANTY PERIOD SHALL NOT COMMENCE UNTIL THE EQUIPMENT IS OPERATED BY THE OWNER. PROPERLY CLEAN AND ADJUST THE EQUIPMENT AND COMPLETE ALL PUNCH LIST ITEMS BEFORE FINAL ACCEPTANCE BY THE OWNER. THE DATE OF ACCEPTANCE AND THE START OF THE WARRANTY MAY NOT BE THE SAME DATE. ALL INCANDESCENT/FLOUORESCENT LAMPS OPERATED FOR MORE THAN 50 HOURS DURING CONSTRUCTION SHALL BE REPLACED WITH NEW LAMPS PRIOR TO OWNER ACCEPTANCE.
 - SHUTDOWNS AND INTERRUPTIONS
 - THE EXISTING ELECTRICAL AND TELEPHONE/INTERNET SERVICE, AND ALL EXISTING COMMUNICATION, FIRE ALARM, SECURITY SYSTEMS, ORIGINATING WITHIN THE SPACE OR PASSING THROUGH THE SPACE, SECURING OTHER AREAS OF THE BUILDING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION PERIOD. ANY SERVICE SHUTDOWNS THAT MAY BE REQUIRED SHALL BE SCHEDULED THROUGH THE OWNER AND SHALL BE DONE AT A TIME DIRECTED BY THE OWNER. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THESE SHUTDOWN PERIODS EVEN THOUGH PREMIUM-TIME WORK MAY BE REQUIRED. PROVIDE TEMPORARY SERVICE TO EQUIPMENT OR SYSTEMS THAT CANNOT BE SHUTDOWN, AS DETERMINED BY OWNER.
 - PROVIDE A MINIMUM OF ONE WEEK'S NOTICE TO THE OWNER BEFORE ANY SERVICE SHUTDOWN IS SCHEDULED.
 - LISTINGS
 - EQUIPMENT AND MATERIALS USED ON THIS PROJECT SHALL BE NEW AND U.L. LABELED FOR THE APPLICATION.
- WORK INCLUDED
- INSTALLATION, MATERIALS, AND WORKMANSHIP
 - FURNISH AND INSTALL ALL NECESSARY ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS, AND OTHER SIMILAR APPARATUS NOT INDICATED ON THE DRAWINGS BUT WHICH ARE REQUIRED FOR A COMPLETE AND PROPERLY INSTALLED SYSTEM CONSISTENT WITH THE ARCHITECTURAL TREATMENT OF THE BUILDING.
 - THE ELECTRICAL CONTRACTOR, INsofar AS THE WORK IS CONCERNED, SHALL AT ALL TIMES KEEP THE PREMISES IN A NEAT AND ORDERLY CONDITION, AND AT THE COMPLETION OF THE WORK, SHALL PROPERLY CLEAN UP AND CART AWAY DEBRIS AND EXCESS MATERIALS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF DUMPSTER & REFUSED DISPOSAL AS REQUIRED FOR ELECTRICAL WORK.
 - ALL MATERIALS SHALL BE NEW AND UNDETERIORATED AND OF QUALITY NOT LESS THAN THE MINIMUM SPECIFIED.
 - COORDINATION OF PLANS AND SPECIFICATIONS
 - CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY IF THERE IS ANY QUESTION

- CUTTING AND PATCHING
 - DO ALL CUTTING AND PATCHING IN EXISTING CONSTRUCTION AS NECESSARY FOR INSTALLATION OF THIS WORK. HAVE CUTTING DONE BY SKILLED MECHANICS AS CAREFULLY AS POSSIBLE AND WITH AS LITTLE DAMAGE AS POSSIBLE.
 - DETERMINE IF ANY STRUCTURAL ELEMENTS SUCH AS REBAR OR POST TENSION CABLES, EXIST IN FLOORS, WALLS OR ROOFS BY INSPECTION COORDINATED WITH THE LANDLORDS TENANT COORDINATOR OR STRUCTURAL ENGINEER AND BY USE OF X-RAY WHEN REQUIRED PRIOR TO ANY CUTTING OR CORE DRILLING. IF SUCH ELEMENTS EXIST, REPORT THIS IMMEDIATELY TO THE ARCHITECT AND LANDLORD'S TENANT COORDINATOR FOR RESOLUTION PRIOR TO CUTTING OR DRILLING.
 - ALL ELECTRICAL EQUIPMENT SHALL BE KEPT DRY AND CLEAN DURING THE CONSTRUCTION PERIOD. INTERIOR OF ALL ENCLOSURES SHALL BE CLEANED OF DIRT AND DEBRIS BEFORE INSTALLING TRIM OR COVERS.
 - ALL FINISHED SURFACES OF EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE THOROUGHLY CLEANED OF DIRT AND ALL SCRATCHED OR DAMAGED SURFACES SHALL BE TOUCHED UP WITH MATCHING MATERIAL BEFORE FINAL ACCEPTANCE OF THE WORK.
 - WHEN ALL WORK IS COMPLETED AND ALL WORK HAS BEEN SATISFACTORILY TESTED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE, ALL CONDUIT AND OTHER EXPOSED SURFACES SHALL BE THOROUGHLY CLEANED.
- CODES AND FEES
- CODES:
 - WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF LOCAL AND STATE CODES. AS WELL AS THE LATEST STATE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORKS INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
 - FEES:
 - OBTAIN AND PAY FOR ANY AND ALL PERMITS AND INSPECTIONS REQUIRED BY ALL LAWS AND REGULATIONS AND PUBLIC AUTHORITY HAVING JURISDICTION.
- TEST AND INSPECTIONS
- OBTAIN ALL INSPECTIONS REQUIRED BY ALL LAWS, ORDINANCES, RULES, REGULATIONS, OR PUBLIC AUTHORITY HAVING JURISDICTION AND OBTAIN CERTIFICATES OF SUCH INSPECTIONS AND SUBMIT SAME TO THE OWNER'S REPRESENTATIVE. PAY ALL FEES, CHARGES, AND OTHER EXPENSES IN CONNECTION THEREIN. OBTAIN OCCUPANCY PERMIT AS REQUIRED BY OWNER. FINAL PAYMENT SHALL NOT BE MADE UNTIL OCCUPANCY PERMIT IS OBTAINED.
 - WORK SHALL BE UNACCEPTABLE WHEN FOUND TO BE DEFECTIVE OR CONTRARY TO THE PLANS SPECIFICATIONS, CODES SPECIFIED OR ACCEPTED STANDARDS OF GOOD WORKMANSHIP.
 - THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK FOUND UNACCEPTABLE BY THE OWNER'S REPRESENTATIVE WHETHER OBSERVED BEFORE OR AFTER SUBSTANTIAL COMPLETION AND WHETHER OR NOT FABRICATED, INSTALLED OR COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS OF CORRECTING SUCH UNACCEPTABLE WORK, INCLUDING COMPENSATION FOR THE OWNER'S REPRESENTATIVE ADDITIONAL SERVICES MADE NECESSARY THEREBY.
- CONDUIT
- FURNISH AND INSTALL ALL CONDUITS, BOXES, FITTINGS, ETC., FOR A COMPLETE RACEWAY SYSTEM.
 - RIGID OR INTERMEDIATE GRADE GALVANIZED STEEL CONDUIT IN WET LOCATIONS, CONCRETE, EXTERIOR MASONRY WALLS AND EXPOSED LOCATIONS SUBJECT TO DAMAGE.
 - GALVANIZED STEEL ELECTRICAL METALLIC TUBING IN DRY LOCATIONS, INTERIOR PARTITIONS, AND CEILING SPACE.
 - FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO TRANSFORMERS, MOTORS AND EQUIPMENT. LIQUID TIGHT FLEXIBLE METAL CONDUIT IN WET AND DAMP LOCATIONS.
 - FLEXIBLE METALLIC TUBING FROM OUTLET BOX TO RECESSED JUNG FLEXIBLES IN SUSPENDED CEILINGS, SIX FOOT MAXIMUM LENGTH.
 - SCHEDULE 40 PVC RIGID NON-METALLIC CONDUIT BURIED BELOW GROUND FLOOR SLAB AND FOR EXTERIOR UNDERGROUND.
 - RACEWAYS SHALL BE SIZED IN ACCORDANCE WITH N.E.C.. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH.
 - CONDUIT FITTINGS FOR RIGID CONDUIT SHALL BE THREADED CAST FERROUS ALLOY WITH GASKETS AND COVERS WHERE REQUIRED CONDUIT FITTINGS FOR EMT TO BE SET SCREW TYPE. LOCKNUTS SHALL BE OF THE BONDING TYPE WHICH BITE INTO THE METAL OF THE BOX. BUSHINGS SHALL BE OF THE INSULATING TYPE.
 - METAL CONDUITS SHALL BE COUPLED AND SECURED TO ALL BOXES IN A MANNER THAT PROVIDES AN ELECTRICALLY CONTINUOUS GROUND PATH FROM POINT OF SERVICE TO ALL OUTLETS.
 - RIGID CONDUITS SHALL BE TERMINATED IN STEEL STEEL WITH DOUBLE LOCKNUTS AND AN INSULATING BUSHING. EMPTY CONDUITS STUBBED SHALL BE THREADED AND CAPPED.
 - NYLON PULL STRING SHALL BE INSTALLED IN ALL EMPTY CONDUITS.
 - CONDUIT ROUTING INDICATED ON THE DRAWINGS IS DIAGRAMMATIC ONLY AND IS NOT NECESSARILY THE INTENDED ACTUAL CONDUIT RUN. CONTRACTOR SHALL CHECK AND BE RESPONSIBLE FOR THE ACTUAL INSTALLATION WITH REGARD TO AVAILABLE SPACE AND SHALL COOPERATE WITH OTHER TRADES.
 - ALL CONDUITS SHALL BE SIZED AND INSTALLED SO THAT THE REQUIRED NUMBER OF CONDUCTORS MAY BE PULLED IN WITHOUT INJURY OR STRAIN.
 - CONDUIT RUNS SHALL BE LOCATED TO AVOID EQUIPMENT AND ACCESS TO EQUIPMENT OF OTHER TRADES.
 - CONDUITS SHALL BE CONTINUOUS AND SECURED TO ALL BOXES IN SUCH A MANNER THAT EACH CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS FROM THE POINT OF SERVICE TO ALL OUTLET BOXES. RUN CONDUITS CONCEALED UNLESS OTHERWISE INDICATED. WHERE IT IS NOT POSSIBLE TO INSTALL CONCEALED CONDUIT, PERMISSION MUST BE OBTAINED FROM THE ARCHITECT TO RUN SURFACE WIREMOLD OR CONDUIT. THE ROUTING AND ELEVATION OF SUCH SURFACE MOUNTED RACEWAYS MUST BE COORDINATED WITH THE ARCHITECT BEFORE INSTALLATION. EXPOSED RACEWAYS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO STRUCTURAL MEMBERS AND SHALL BE PAINTED TO MATCH ADJACENT FINISHES.
 - ENDS OF EACH CONDUIT SHALL BE CAPPED WITH AN APPROVED CAP OR DISC TO PREVENT THE ENTRANCE OF FOREIGN MATERIALS DURING CONSTRUCTION.
 - CONDUITS THAT PASS-THROUGH FIRE OR SMOKE RATED WALLS, CEILINGS, OR DECKS SHALL BE INSTALLED SO AS TO MAINTAIN THE FIRE OR SMOKE RATING.
 - EXPANSION FITTINGS SHALL BE INSTALLED AT ALL POINTS WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS.
 - CONDUIT ENTRIES INTO BUILDING SHALL BE MADE WATERTIGHT. ALL UNDERGROUND JOINTS SHALL BE SEALED.
 - EXTERIOR UNDERGROUND CONDUITS SHALL BE INSTALLED 36 INCHES MINIMUM BELOW FINISHED GRADE.
- BUSHINGS AND CONNECTORS
- WHERE RIGID OR INTERMEDIATE METAL CONDUIT ENTERS A BOX, SECURE THE CONDUIT TO THE BOX WITH A LOCKNUT ON THE OUTSIDE AND INSIDE. PROVIDE BUSHINGS FOR CONDUIT TERMINALS AT BOXES. FOR CONDUCTORS THRU #8 AWG BUSHINGS SHALL BE GALVANIZED, NON-INSULATING TYPE, AND FOR CONDUCTORS LARGER THAN #8 AWG BUSHINGS ARE TO BE INSULATING TYPE. IF THE CONDUIT FITTING PROVIDES EQUIVALENT PROTECTION OF THE CONDUCTORS, THE BUSHING MAY BE ELIMINATED.
- HANGERS AND SUPPORTS
- CONDUIT SUPPORTS SHALL BE ATTACHED TO BUILDING STRUCTURAL MEMBERS ONLY BY ONE AND TWO-WHOLE STRAPS AND/OR SUITABLE CLAMPS OR HANGERS, AND NOT TO ANY BUILDING SUB SYSTEMS SUCH AS SUSPENDED CEILINGS, MECHANICAL DUCTS OR PIPES. DO NOT USE PERFORATED STRAP-TYPE HANGER, WIRE TIES, OR PLUMBERS STRAP.
 - IN NO CASE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READY REMOVAL OF OTHER PIPE FOR REPAIRS.
 - PROVIDE ANGLE IRON FRAMES AND SUPPORTS FOR JUNCTION BOXES AND CABINETS TO

- PREVENT STRAIN ON ENTERING CONDUITS. GROUP EXPOSED CONDUITS TOGETHER. CONDUIT PENETRATIONS IN CEILINGS SHALL BE TIGHT TO THE CONDUIT AND SEALED.
- SUPPORT RIGID STEEL, IMC, AND EMT RACEWAYS AT MAX TEEN FEET INTERVALS AND WITHING THREE FEET OF OUTLET AND JUNCTION BOXES, CABINETS, OR FITTINGS. SUPPORT WITHIN 12" OF EACH CHANGE IN DIRECTION. USE ONE-HOLE MALLEABLE IRON CLAMPS. SUPPORT MULTIPLE RUNS ON GALVANIZED UNISTRUT.
- WIRE AND CABLE
- FEEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE U.L. LABELED, 98% CONDUCTIVITY COPPER-STAMPED AT 2 FT. INTERVALS WITH CONDUCTOR SIZE AND INSULATION TYPE.
 - FEEEDER CIRCUIT CONDUCTORS SHALL BE TYPE "XHHW-2" OR "THHN", 600 VOLT. STRANDED COPPER, 90 DEGREE C RATED.
 - BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THWN/THHN-2", 600 VOLT, 90 DEGREE C. COPPER. WIRE SIZES #8 AWG AND LARGER SHALL BE STRANDED, BRANCH CIRCUIT CONDUCTORS SMALLER THAN SIZE #8 AWG SHALL BE SOLID. BRANCH CIRCUIT CONDUCTORS SHALL ALSO BE PERMISSIBLE TO BE TYPE "MC" THHN-2, 600 VOLT, 90 DEGREE C. COPPER WITH INSULATED GREEN GROUND WIRE ENCLOSED IN AN ALUMINUM OR GALVANIZED STEEL ARMOR "CONDUIT" THAT IS APPROVED FOR EXPOSED OR CONCEALED APPLICATIONS.
 - MINIMUM WIRE SIZE SHALL BE #12 AWG OR LARGER AS REQUIRED TO LIMIT VOLTAGE DROP AT FURTHEST OUTLET TO 3%.
 - CONNECTIONS ARE TO BE MADE USING PRESSURE TYPE TERMINALS.
 - THE FOLLOWING COLOR CODE SHALL BE USED:

120/208V, 3-PHASE: BLACK, RED, BLUE, NEUTRAL WHITE, GROUND GREEN

277/480V, 3-PHASE: BROWN, ORANGE, YELLOW, NEUTRAL GREY, GROUND GREEN
 - CONDUCTORS NO. 10 AWG OR SMALLER SHALL HAVE INSULATION COLORED AS NOTED ABOVE
 - CONDUCTORS NO. 8 AWG OR LARGER SHALL HAVE INSULATION COLORED AS NOTED ABOVE OR COLORED TAPE, MINIMUM SIZE 1/2". WRAPPED TWICE AROUND AT THE FOLLOWING POINTS:
 - AT EACH TERMINAL
 - AT EACH CONDUIT ENTRANCE
 - AT INTERVALS NOT MORE THAN 12 INCHES APART IN ALL BOXES, PANEL TUBS, SWITCHBOARDS, ETC.
 - ALL BRANCH CIRCUITS SHALL BE MARKED IN THE PANEL BOARDS GUTTERS. MARKERS SHALL INDICATE CORRESPONDING BRANCH-CIRCUIT NUMBERS.
 - EACH BRANCH CIRCUIT REQUIRING A NEUTRAL SHALL BE FURNISHED WITH A SEPARATE INDIVIDUAL NEUTRAL CONDUCTOR
 - INSULATION RESISTANCE TESTS SHALL BE MADE ON THE ELECTRICAL SYSTEM WITH AN APPROVED MEGOHMMETER.
 - AFTER INSTALLATION, TEST FOR GROUNDS, SHORT CIRCUITS AND PROPER FUNCTION OF EACH SYSTEM RELATED WIRING. FAULTS IN THE INSTALLATION SHALL BE CORRECTED.
 - INSTALLATION:
 - PULL WIRE AND CABLES USING WIRE PULLING LUBRICANT RATED FOR USE WITH WIRE AND CABLES.
 - COLOR CODE WIRE AND CABLE FOR CIRCUITS AS CALLED FOR IN THE NATIONAL ELECTRICAL CODE. COLOR CODING OF FEEDERS SHALL BE BY MEANS OF COLORED TAPE AT TERMINALS.
 - INDIVIDUAL BRANCH CIRCUITS ARE SHOWN ON THE DRAWINGS FOR CLARITY. LIGHTING AND RECEPTACLE CIRCUITS MAY BE GROUPED FOR HOMERUNS, SO LONG AS CONDUCTOR AMPACITIES ARE DERATED PER N.E.C. REQUIREMENTS. NEUTRAL CONDUCTORS IN RECEPTACLE CIRCUITS SERVING DATA EQUIPMENT LOADS SHALL NOT BE SHARED.
 - WIRING FROM LEGALLY REQUIRED EMERGENCY AND STANDBY POWER GENERATION SOURCES SHALL BE KEPT INDEPENDENT OF EACH OTHER AND INDEPENDENT OF ALL OTHER BRANCH CIRCUITS WIRING, AND SHALL NOT ENTER THE SAME RACEWAY, CABLE, BOX, OR CABINET WITH OTHER WIRING, UNLESS SPECIFICALLY ALLOWED BY THE N.E.C.
- BOXES AND PLATES
- FURNISH AND INSTALL ALL OUTLET, JUNCTION, AND PULL BOXES AS INDICATED ON THE DRAWINGS AND AS NECESSARY TO INSTALL THE REQUIRED CONDUIT AND WIRING IN A NEAT AND WORKMANLIKE MANNER.
 - PULL BOXES AND JUNCTION BOXES SHALL BE GALVANIZED AND OF THE CORRECT SIZE AND GAUGE, SIZED IN ACCORDANCE WITH CODE REQUIREMENTS AND SHALL BE U.L. LABELED.
 - BOXES AT EXTERIOR AREAS TO BE WATERTIGHT AND DUST-TIGHT WITH GASKETED COVERS.
 - ALL BOXES FOR EXPOSED WORK IN FINISHED SPACES SHALL BE "FS" TYPE WITH THREADED HUBS WITH RIGID CONDUIT RISER (DEEP WIRE MOLD BOXES).
 - ALL BOXES SHALL BE RIGIDLY SUPPORTED INDEPENDENT OF THE CONDUIT SYSTEM. ALL BOXES SHALL BE 4" SQUARE BOXES MINIMUM WITH RAISED COVERS SUITABLE FOR THE WALL MATERIAL. BOXES CAST INTO MASONRY OR CONCRETE ARE CONSIDERED TO BE RIGIDLY SUPPORTED.
 - FLOOR BOXES:
 - DESCRIPTION: FLOOR BOXES COMPATIBLE WITH FLOOR BOX SERVICE FITTINGS PROVIDED IN ACCORDANCE WITH THE WIRING DEVICES SECTION OF THIS SPECIFICATION; WITH PARTITIONS TO SEPARATE MULTIPLE SERVICES; FURNISHED WITH ALL COMPONENTS, ADAPTERS, AND TRIMS REQUIRED FOR COMPLETE INSTALLATION.
 - USE CAST IRON OR NONMETALLIC FLOOR BOXES WITHIN SLAB ON GRADE.
 - USE SHEET-STEEL, CAST-IRON, OR NONMETALLIC FLOOR BOXES WITHIN SLAB ABOVE GRADE.
 - METALLIC FLOOR BOXES; FULLY ADJUSTABLE (WITH INTEGRAL MEANS FOR LEVELING ADJUSTMENT PRIOR TO AND AFTER CONCRETE POUR).
 - MANUFACTURER; SAME AS MANUFACTURER OF FLOOR BOX SERVICE FITTINGS.
 - UNDERGROUND BOXES/ENCLOSURES:
 - DESCRIPTION: IN-GROUND, OPEN BOTTOM BOXES FURNISHED WITH FLUSH, NON-SKID COVERS WITH TEXT INDICATING TYPE OF SERVICE AND STAINLESS-STEEL TAMPER RESISTANT COVER BOLTS.
 - COVER TEXT: AS INDICATED ON DRAWINGS.
 - SIZE: AS INDICATED ON DRAWINGS.
 - DEPTH: AS REQUIRED TO EXTEND BELOW FROST LINE TO PREVENT FROST UPHEAVAL, BUT NOT LESS THAN 12 INCHES.
 - APPLICATION:
 - SIDEWALKS AND LANDSCAPED AREAS (SUBJECT ONLY TO OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC): USE POLYMER CONCRETE OR COMPOSITE ENCLOSURE WITH MINIMUM SCTE 77, TIER 8 LOADING RATING.
 - PARKING LOTS (SUBJECT ONLY TO OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC): USE POLYMER CONCRETE OR COMPOSITE ENCLOSURE WITH MINIMUM SCTE 77, TIER 15 LOAD RATING.
 - DO NOT USE POLYMER CONCRETE ENCLOSURES IN AREAS SUBJECT TO DELIBERATE VEHICULAR TRAFFIC SUCH AS STREETS AND HIGHWAYS.
 - COMPOSITE UNDERGROUND BOXES/ENCLOSURES: COMPLY WITH SCTE 77
- WIRING DEVICES
- WIRING DEVICES SHALL BE SIMILAR TO THOSE LISTED BELOW AND OF SPECIFIED AMPERAGE. OTHER SPECIAL PURPOSE DEVICES SHALL BE AS SPECIFIED ON THE DRAWINGS.
 - DUPLEX GROUNDING TYPE RECEPTACLE - 20 AMP, 125 VOLTS
 - HUBBELL 5352
 - ARROW HART 5352
 - SINGLE POLE SWITCHES - 20 AMP, 120 VOLT
 - WEATHERPROOF RECEPTACLES - 20 AMP, 125 VOLT - NEMA 5-20R
 - HUBBELL 5352 WITH 5205 COVER INTERMATIC GUARDIAN
 - I SERIES, NEMA 3R COVER
 - ARROW HART 5352 WITH 4500 COVER
 - GFCI RECEPTACLE - 20 AMP, 125 VOLT - NEMA 5-20R
 - HUBBELL GF 5262 WITH MATCHING NYLON COVER PLATE OR WO-26 W.P. COVER.
 - GROUND ALL RECEPTACLES IN ACCORDANCE WITH ARTICLE 250.146 OF NEC AND AS INDICATED IN THE GROUNDING SECTION OF THIS SPECIFICATION.
- DISCONNECT SWITCHES

- PROVIDE MOTOR DRIVEN EQUIPMENT WITH PROPERLY SIZED AND RATED DISCONNECT SWITCHES TO COMPLY WITH N.E.C. REQUIREMENTS, WHETHER OR NOT INDICATED ON THE DRAWINGS.
 - DISCONNECT SWITCHES SHALL BE MANUFACTURED BY SQUARE D OR BY APPROVED ALTERNATE MANUFACTURERS: GENERAL ELECTRIC, WESTINGHOUSE OR SIEMENS.
- IDENTIFICATION
- PROVIDE NAMEPLATES ON PANELBOARDS, DISTRIBUTION EQUIPMENT, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES, AND CONTROL DEVICES. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, LETTERING SHALL INCLUDE THE NAME OR DESIGNATION OF THE EQUIPMENT, HORSEPOWER, VOLTAGE RATING AND SERVICE DESIGNATION.
 - IDENTIFICATION NAMEPLATES SHALL BE PLASTIC, BLACK IN COLOR, WITH THE ENGRAVED WHITE LETTERS. LETTERS SHALL BE A MINIMUM OF 1/4" HIGH. PLATES SHALL BE DRILLED ON EACH END FOR SHEET METAL SCREW ATTACHMENT. NO "DYMO" OR SIMILAR TYPE LABELS WILL BE ALLOWED.
 - PANEL BOARD DIRECTORY: A TYPED CIRCUIT DIRECTORY SHALL BE PROVIDED INDICATING LOCAL AREA SERVED AND LOCATION FOR EACH BRANCH CIRCUIT.
- GROUNDING
- ALL FEEDERS AND BRANCH CIRCUITS OVER 100 VOLTS SHALL INCLUDE A GROUNDING CONDUCTORS SIZED IN ACCORDANCE WITH NEC TABLE 250-122, EXCEPT NOT BE SMALLER THAN #12 FOR POWER AND LIGHTING CIRCUITS AND #14 FOR CONTROL CIRCUITS. ALL GROUND CONDUCTORS SHALL BE GREEN, OR AS SPECIFIED UNDER THE WIRE AND CABLE SECTION OF THIS SPECIFICATION.
 - ALL GROUND CLAMPS SHALL BE PENN-INJON "GPI" TYPE OR SIMILAR BY O.Z. OR BURNDY.
 - CONDUIT FOR SOLITARY GROUND CONDUCTORS SHALL BE RIGID SCHEDULE 40 PVC NON-METALLIC ELECTRICAL CONDUIT WITH U.L. LABEL. SOLITARY GROUND CONDUCTORS SHALL NOT BE PLACED THROUGH METALLIC SLEEVES OR CONDUITS AND SHALL NOT BE COMPLETELY ENCRIBLED BY METALLIC HANGERS OR SUPPORTS.
 - THE GROUND CONDUCTOR SHALL BE CONNECTED TO THE NEUTRAL IN ONLY TWO LOCATIONS - ON THE SUPPLY SIDE OF THE SERVICE DISCONNECT MEANS PER NEC-250-24 AND ON SEPARATELY DERIVED SYSTEMS PER NEC 250-30.
 - AT EACH RECEPTACLE BOX, THE GROUND CONDUCTOR SHALL ENTER AND CONNECT, WITH NORMAL WIRING CONNECTOR, TO: 1) THE GROUND PIGTAIL TO RECEPTACLE 2) THE GROUND PIGTAIL TO THE BOX GROUND SCREW; AND 3) THE OUTGOING GROUND CONDUCTOR TO NEXT DEVICE, IF NOT AT END OF RUN. METAL TO METAL CONTACT BETWEEN THE DEVICE YOKE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES.
 - CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS SHALL CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS SHALL BE REQUIRED.
 - THE GROUNDING CONDUCTOR FOR BRANCH CIRCUITS FEEDING ISOLATED GROUND RECEPTACLES SHALL BE CONNECTED ONLY AT THE ISOLATE GROUND RECEPTACLE GROUND TERMINALS, AND AT THE GROUND BUS OF THE SERVING PANEL.
 - A GROUND CONTINUITY TEST SHALL BE MADE ON THE ENTIRE GROUNDING SYSTEM FROM THE SERVICE TO EVERY OUTLET.
- LIGHTING FIXTURES
- CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING FIXTURES AS INDICATED IN FIXTURE SCHEDULE SHOWN ON DRAWINGS, AND SPECIFIED HEREIN.
 - NEUTRAL ASSEMBLY SHALL HAVE INDIVIDUAL ANTI-TURN SOLDERLESS TERMINALS, SIMILAR TO SQUARE-D TYPE PK, FOR CONNECTION OF ULTIMATE NUMBER OF NEUTRAL WIRES. SHEET METAL TERMINAL STRIPS AND CONNECTIONS WILL BE REJECTED.
 - ALL LIGHTING FIXTURES INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE FURNISHED COMPLETE WITH ALL NECESSARY COMPONENTS, PARTS, HANGER KITS, DRIVERS, ADAPTERS, STEM, CABLES AND ACCESSORIES REQUIRED FOR INSTALLATION AS SHOWN ON DRAWINGS.
 - ANY LIGHTING FIXTURES SCRATCHED, BENT, CRACKED, OR IN ANY WAY DAMAGED BEFORE ACCEPTANCE BY OWNER SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
 - ALL LIGHTING FIXTURES SHALL BE IN WORKING ORDER AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
 - ALL LIGHTING FIXTURES ARE TO BE GROUNDED ON THE INTERIOR OF THE FIXTURE HOUSING, ON CLEAN BARE METAL (FREE OF PAINT), BY USE OF PIGTAIL AND FASTENED BY A SCREW USED FOR NO OTHER PURPOSE.
- TELEPHONE/DATA SYSTEMS
- SUMMARY
 - INCLUDES BUT NOT LIMITED TO
 - FURNISH AND INSTALL BUILDING TELEPHONE AND COMPUTER NETWORK RACEWAY AND CABLE SYSTEM AS DESCRIBED IN CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, RACEWAY, OUTLETS, MODULAR JACKS, DEVICE PLATES, CABLES, PUNCH DOWN BLOCKS, PATCH PANELS, EQUIPMENT CABINETS, CABLE TRAY, GROUNDING AND OTHER MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE WORKING SYSTEM.
 - COMPONENTS
 - TELEPHONE/DATA OUTLETS SHALL BE PROVIDED WITH SINGLE OR DOUBLE DEVICE BOX, AS REQUIRED FOR OUTLET INDICATED.
 - BUILDING TELEPHONE AND COMPUTER NETWORK SYSTEM CABLE:
 - 23 GAUGE, SOLID TINNED COPPER, FOUR TWISTED PAIRS, CATEGORY 6
 - USE PLENUM-RATED CABLE IN CEILINGS AND AREAS USED FOR PLENUM AIR RETURN
 - TELEPHONE TERMINATION BLOCKS
 - UL VERIFIED CATEGORY 6110 TERMINATION WITH TIN LEAN PLATED IDC
 - TELEPHONE/NETWORK JACKS
 - WALL JACKS
 - CAT6 - HUBBELL HX16 OR ALTERNATE MANUFACTURER WITH EQUIVALENT PERFORMANCE STANDARD.
 - PLATES
 - HUBBELL - IFF SERIES (PORT QUANTITY AS REQUIRED, COLOR BY ARCHITECT FROM MANUFACTURERS FULL LINE)
 - CONNECTOR BLOCKS FOR CATEGORY 6 AND UTP CABLING: TYPE 110 INSULATION DISPLACEMENT CONNECTORS; CAPACITY SUFFICIENT FOR CABLES TO BE TERMINATED PLUS 25 PERCENT SPARE CAPACITY.
 - INSTALLATION
 - TERMINATE CABLES ON EACH OUTLET WITH SPECIFIED MODULAR JACK ASSEMBLY.
 - TERMINATE CABLES ON PUNCH DOWN BLOCKS OR PATCH PANELS AT TERMINAL BOARD.
 - PROVIDE TYPED LABELS AT ALL JACKS CORRESPONDING TO TYPED NUMBERING SYSTEM AT TERMINAL STRIP.
 - ALL EQUIPMENT MOUNTED ON EQUIPMENT ROOM WALLS SHALL BE ATTACHED TO 1/2" PLYWOOD BOARDS, PAINTED WITH FIRE RESISTANT PAINT.
 - QUALITY ASSURANCE
 - COMPLY WITH APPLICABLE PORTIONS OF NEC, ANSI/EIA/TIA 568 AS TO TYPE PRODUCTS USED AND INSTALLATION OF COMPONENTS, PROVIDE PRODUCTS AND MATERIAL WHICH HAVE BEEN UL-LISTED AND LABELED.
- FIRE AND SMOKE INTEGRITY
- SEAL BUILDING OPENINGS THROUGHOUT, CAUSED BY INSTALLATION OF ALL TYPES OF ELECTRICAL EQUIPMENT (CONDUIT, CABLE/WIRE, PANELS, ETC.) WHERE OPENINGS ARE IN FLOORS OR FIRE RATED WALLS CONFIGURE THE PENETRATION IN CONFORMANCE WITH UL LISTED CRITERIA, INSURE FIRE AND SMOKE BARRIER INTEGRITY THROUGHOUT. WHERE INTUMESCENT SEALER/CAULKING IS REQUIRED USE MATERIALS OF 3M OR DOW CORNING.
- ALARM & DETECTION SYSTEMS
- SUMMARY
 - ALL FIRE ALARM WORK SHALL BE PERFORMED BY THE LANDLORD'S APPROVED FIRE ALARM CONTRACTOR
 - INCLUDES BUT NOT LIMITED TO: FURNISH AND INSTALL NAC PANEL AND ADDITIONAL NOTIFICATION/INITIATION DEVICES ON EXISTING SYSTEM.
 - SYSTEM DESCRIPTION
 - THE FIRE ALARM SYSTEM SHALL COMPLY WITH REQUIREMENTS OF NFPA STANDARD 72 FOR PROTECTED PREMISES SIGNALING SYSTEMS EXCEPT AS MODIFIED AND SUPPLEMENTED BY THIS SPECIFICATION. THE SYSTEM SHALL BE ELECTRICALLY

- SUPERVISED AND MONITOR THE INTEGRITY OF ALL CONDUCTORS.
- QUALITY ASSURANCE
 - REGULATORY REQUIREMENTS
 - SYSTEM SHALL MEET APPROVAL OF AUTHORITY HAVING JURISDICTION (AHJ). CHANGES OR ADDITIONS SHALL BE MADE TO THE SYSTEM AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
 - EQUIPMENT, DEVICES, AND CABLE SHALL BE UL OR FACTORY MUTUAL LISTED FOR USE IN THE BUILDING'S EXISTING FIRE ALARM SYSTEM.
 - DESIGNER QUALIFICATION: NICET LEVEL III OR IV (3 OR 4) CERTIFIED FIRE ALARM TECHNICIAN OR REGISTERED FIRE PROTECTION ENGINEER, EMPLOYED BY FIRE ALARM CONTROL PANEL MANUFACTURER, CONTRACTOR, OR INSTALLER.
 - INSTALLER QUALIFICATIONS: FIRM WITH MINIMUM 3 YEARS DOCUMENTED EXPERIENCE INSTALLING FIRE ALARM SYSTEMS OF THE SPECIFIED TYPE AND PROVIDING CONTRACT MAINTENANCE SERVICE AS REGULAR PART OF THEIR BUSINESS.
 - AUTHORIZED REPRESENTATIVE OF CONTROL UNIT MANUFACTURER; SUBMIT MANUFACTURER'S CERTIFICATION THAT INSTALLER IS AUTHORIZED; INCLUDE NAME AND TITLE OF MANUFACTURER'S REPRESENTATIVE MAKING CERTIFICATION.
 - INSTALLER PERSONNEL; FACTORY TRAINED AND CERTIFIED WITH AT-LEAST 2 YEARS OF EXPERIENCE INSTALLING FIRE ALARM SYSTEMS.
 - SUPERVISOR; NICET LEVEL III OR IV (3 OR 4) CERTIFIED FIRE ALARM TECHNICIAN; FURNISH NAME AND ADDRESS.
 - FACP COMPONENTS
 - EQUIPMENT AND ACCESSORIES FURNISHED UNDER TERMS OF THIS SPECIFICATION SHALL BE STANDARD PRODUCTS OF SINGLE MANUFACTURER, OR INCLUDE WRITTEN STATEMENT BY CONTROL PANEL MANUFACTURER CONFIRMING COMPATIBILITY OF COMPONENTS AND INCLUSION OF THESE COMPONENTS UNDER SYSTEM WARRANTY.
 - AUDIBLE HORN ALARM ANNUNCIATOR
 - PROVIDE SEPARATE AND DISTINCT ALARM SIGNALS FOR ALARM AND TROUBLE CONDITIONS.
 - ALARM SIGNAL SHALL ALSO OPERATE STROBE LIGHTS, IF SPECIFIED.
 - PROVIDE ALARM SILENCE SWITCHES AT CONTROL PANEL
 - TROUBLE ALARM SHALL BE HORN INTEGRAL TO CONTROL PANEL
 - SUPERVISORY ALARM MAY BE SAME AUDIBLE ALARM AS TROUBLE ALARM, BUT WITH SEPARATE VISUAL ANNUNCIATION.
 - CIELD MOUNTED SYSTEM COMPONENTS
 - FIRE ALARM ACTUATING DEVICES
 - NOTIFICATION APPLIANCES
 - LOW PROFILE HORN-STROBES
 - AUDIBLE OUTPUT OF 92 DBA AT 10 FEET WHEN MEASURED IN REVERBERATION ROOM PER UL-464
 - INTERGALLY MOUNTED FLASHING LIGHT UNIT WIT BLOCK LETTERS "FIRE" MULTI-CANDELA WITH FLUSH SELECTABLE SETTINGS OF 15CD, 30CD, 60CD, 75CD, AND 110CD, AND FLASH RATE BETWEEN ONE AND THREE HERTZ. ALL UNITS SHALL FLASH IN SYNCHRONIZATION WITH EACH OTHER.
 - THE HORN SHALL HAVE A SELECTABLE STEADY OR SYNCHRONIZED TEMPORAL OUTPUT.
 - IN AND OUT SCREW TERMINALS SHALL BE PROVIDED FOR WIRING.
 - LOW PROFILE HORN-STROBES SHALL MOUNT IN A NORTH AMERICAN 1-GANG BOX.
 - LOW PROFILE STROBES
 - PROVIDE LOW PROFILE WALL MOUNTED STROBES AT THE LOCATIONS SHOWN ON THE DRAWINGS. IN AND OUT SCREW TERMINALS SHALL BE PROVIDED FOR WIRING. STROBES SHALL PROVIDE SYNCHRONIZED FLASH OUTPUTS. STROBE OUTPUT SHALL BE DETERMINED AS REQUIRED BY ITS SPECIFIC LOCATION AND APPLICATION FROM A FAMILY OF 15CD, 30CD, 60CD, 75CD, OR 110CD DEVICES. LOW PROFILE STROBES SHALL MOUNT IN A NORTH AMERICAN 1-GANG BOX.
 - INSTALLATION
 - INSTALL FIRE ALARM AND DETECTION SYSTEMS AS INDICATED, IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S WRITTEN INSTRUCTIONS. AND COMPLYING WITH APPLICABLE PORTIONS OF NEC, NFPA AND NECAS "STANDARD OF INSTALLATION".
 - INSTALL WIRING, RACEWAYS, CONDUCTORS, ELECTRICAL BOXES AND FITTINGS IN ACCORDANCE WITH CONDUIT, WIRE AND CABLE, AND BOXES AND PLATES SECTION OF THIS SPECIFICATION.
 - LABEL PULL AND JUNCTION BOXES "FIRE ALARM" WITH RED INDELEIBLE INK.
 - LOOP WIRES THROUGH EACH DEVICE ON ZONE FOR PROPER SUPERVISION. TEE-TAPS NOT PERMITTED.
 - PROVIDE DUST PROTECTION FOR INSTALLED SMOKE DETECTORS UNTIL FINISH WORK IS COMPLETED AND BUILDING IS READY FOR OCCUPANCY.
 - PROTECT CONDUCTORS FROM CUTS, ABRASIONS AND OTHER DAMAGE DURING CONSTRUCTION.
 - MINIMUM CONDUCTOR SIZE SHALL BE 14 AWG UNLESS OTHERWISE SPECIFIED.
 - DO NOT INSTALL CEILING MOUNTED DETECTORS WITHIN 3 FEET OF AIR DISCHARGE GRILLS. COORDINATE WITH OTHER TRADES AS REQUIRED.
 - POST COPY OF WIRE IDENTIFICATION LIST INSIDE FIRE ALARM PANEL DOOR OR OTHER AREA ACCESSIBLE TO FIRE ALARM SERVICE PERSONNEL.
- POWER AND LIGHTING PANELS
- FURNISH AND INSTALL, AS SCHEDULED AND SHOWN ON THE DRAWINGS, POWER PANELS FOR OPERATION ON VOLTAGES INDICATED.
 - BRANCH CIRCUIT PANEL BOARDS SHALL BE DEAD-FRONT CIRCUIT BREAKER TYPE, WITH VOLTAGE, AMPERAGE, MAIN CIRCUIT BREAKER OR MAIN LUGS ONLY, AS NOTED ON DRAWINGS. ALL PANEL BOARDS SHALL BE PROVIDED WITH SOLID NEUTRALS AND GROUNDING BUS WITH LUGS.
 - CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC, MOLDED CASE, BOLT-ON TYPE, WITH QUANTITY, AMPERAGE, AND POLES AS NOTED ON THE PANEL SCHEDULES. SHORT CIRCUIT INTERRUPTING CAPACITY SHALL BE AS NOTED ON THE DRAWINGS. TWO AND THREE POLE BREAKERS SHALL BE COMMON TRIP. AUTOMATIC TRIPPING SHALL BE INDICATED BY THE OPERATING HANDLE ASSUMING A MID-POSITION BETWEEN ON AND OFF. PROVIDE HACR BREAKERS AS REQUIRED BY ALL HVAC EQUIPMENT AND MANUFACTURERS.
 - PANEL BOARD ENCLOSURES SHALL BE GENERAL PURPOSE, SURFACE OR FLUSH-MOUNTED AS NOTED ON DRAWINGS, WITH GALVANIZED BACKBOX AND PAINTED FRONT WITH LOCKABLE DOOR. A GLAZED DIRECTORY FRAME SHALL BE PROVIDED INSIDE THE DOOR AND SHALL BE OF SUFFICIENT SIZE TO GIVE DESCRIPTION OF EACH CIRCUIT. ALL SECTIONS OF MULTI-SECTION PANELS SHALL BE SAME SIZE.
 - TWO KEYS SHALL BE PROVIDED WITH EACH PANEL, AND ALL PANELS SHALL BE KEYPD ALIKE.
 - SCREW FASTENED HANDLE LOCK-ON DEVICES SHALL BE PROVIDED ON BRANCH CIRCUIT BREAKERS FOR EMERGENCY, EXIT, SECURITY AND NIGHT LIGHTS.
 - BRANCH CIRCUIT PANELBOARDS SHALL BE SQUARE-D, TYPE "NQ", 120/208 VOLT 3-PHASE, 4-WIRE OR TYPE "NP", 277/480V, 3-PHASE, 4-WIRE. DISTRIBUTION PANELBOARDS SHALL BE SQUARE-D, TYPE I-LINE. REFER TO PANEL SCHEDULES FOR PANEL SPECIFICS. EQUIVALENT ALTERNATE MANUFACTURERS: CUTLER HAMMER, GENERAL ELECTRIC, OR SIEMENS.
 - ALL LIGHTING AND APPLIANCE PANELBOARDS SHALL HAVE A LAMINATED TYPE-WRITTEN CIRCUIT DIRECTORY THAT SHALL SHOW LOADING AS CONNECTED DURING CONSTRUCTION.
 - THE BRANCH CIRCUIT NUMBERS USED ON THE DRAWINGS SHALL BE APPLIED FOR THE CONSTRUCTION. HOWEVER, AT THE COMPLETION OF THE WORK, CIRCUIT NUMBER ADJUSTMENTS SHALL BE MADE AS REQUIRED TO PROVIDE BALANCED PHASE LOADING ON EACH PANELBOARD.
 - FLUSH/RECESSED MOUNTED PANELBOARDS SHALL BE INSTALLED WITH A MINIMUM OF THREE EMPTY 1/2" CONDUITS STUBBED UP TO THE NEAREST ACCESSIBLE CEILING SPACE FOR CONVENIENT FUTURE EXPANSION.
- FUSES
- FURNISH AND INSTALL A COMPLETE SET OF FUSES THROUGHOUT FOR FUSIBLE EQUIPMENT IN THE PROJECT. FUSES SHALL BE AS MANUFACTURED BY BUSMAN, GOLD OR LITTLE FUSE.
 - PROVIDE FUSES OF THE SAME MANUFACTURER THROUGHOUT. FUSES SHALL BE U.L. LISTED, CURRENT LIMITING AND HAVE AN INTERRUPTING RATING OF 100,000 RMS AMPERES SYMMETRICAL.
 - FUSES RATED 601 TO 6000 AMPERES SHALL BE TIME-DELAY, CURRENT-LIMITING, U.L. LISTED, NEMA CLASS L.
 - FUSES RATED 600 AMPERES AND LESS SERVING PANEL BOARDS SHALL BE UL CLASS C. RK-1 DUAL ELEMENT (UNLESS NOTED OTHERWISE).
 - FUSES RATED 600 AMPERES AND LESS SERVING MOTOR CIRCUITS SHALL BE UL CLASS RK-5 DUAL-ELEMENT TIME DELAY.

STATE OF KENTUCKY

JUSTIN B. EPPERSON

35863

PROFESSIONAL ENGINEER

14-18-274

HISTORIC STEARNS

DOWNTOWN REVITALIZATION

STORE 1 & 3 RENOVATION

STEARNS, KENTUCKY

DESIGN DOCUMENTS: These drawings are my own and I am responsible and liable for problems which arise from failure to follow these plans, specifications and the design intent they convey.

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PROJECT NO. 2104-07

DESIGNED BY JE

DRAWN BY JE

CHECKED BY JE

REVIEWED BY JE

DATE DECEMBER 2024

SCALE AS NOTED

DRAWING NO.

E-7.1