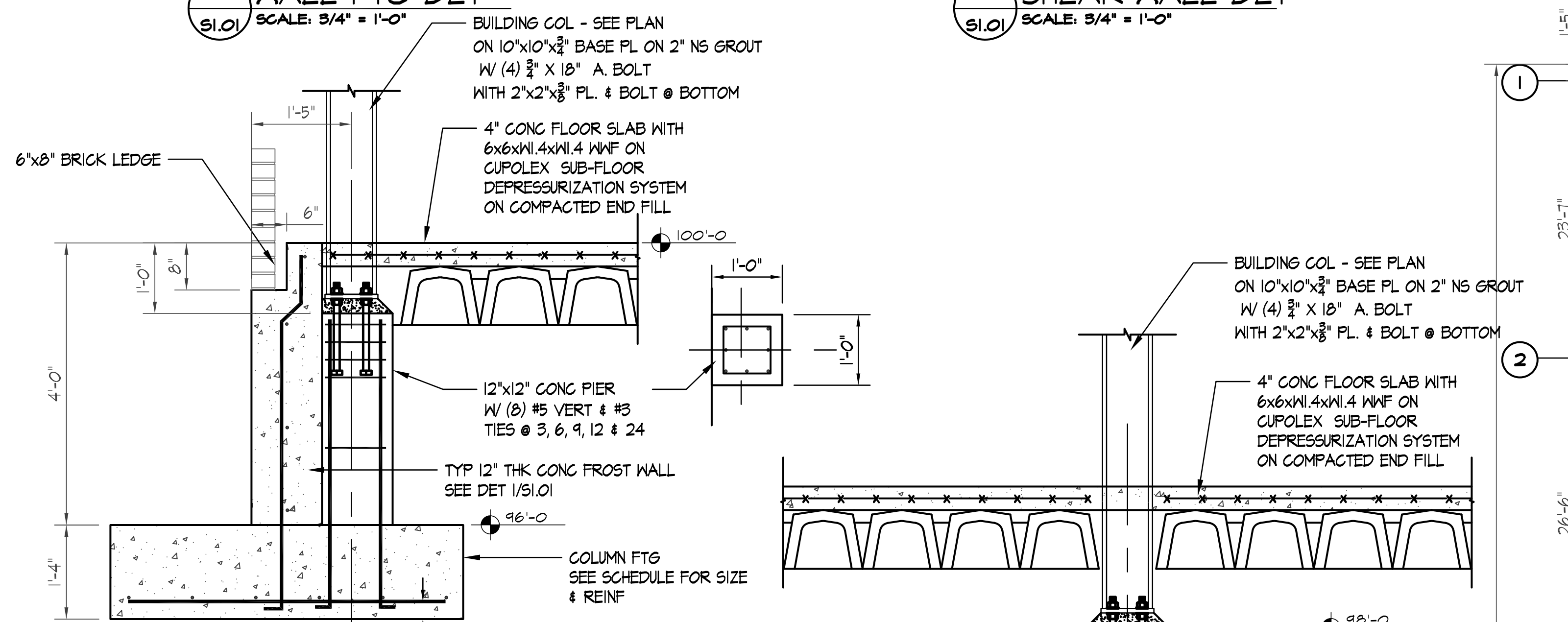


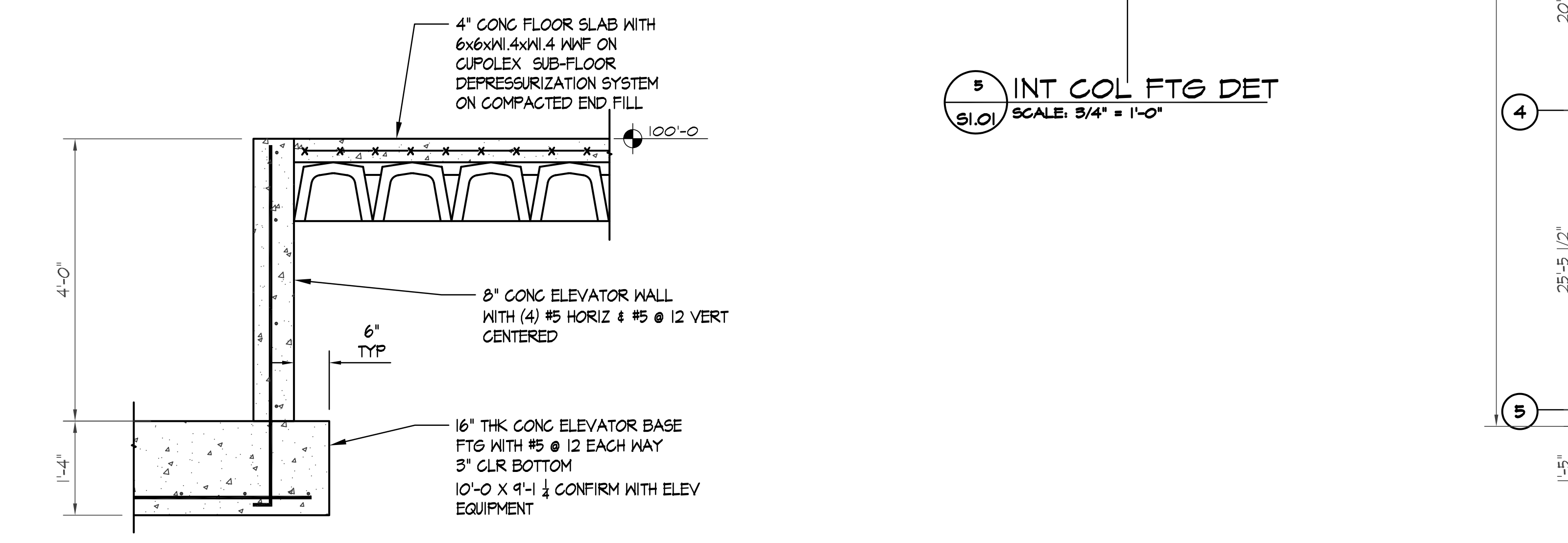
**1 WALL FTG DET**  
S1.01 SCALE: 3/4" = 1'-0"

**4 SHEAR WALL DET**  
S1.01 SCALE: 3/4" = 1'-0"



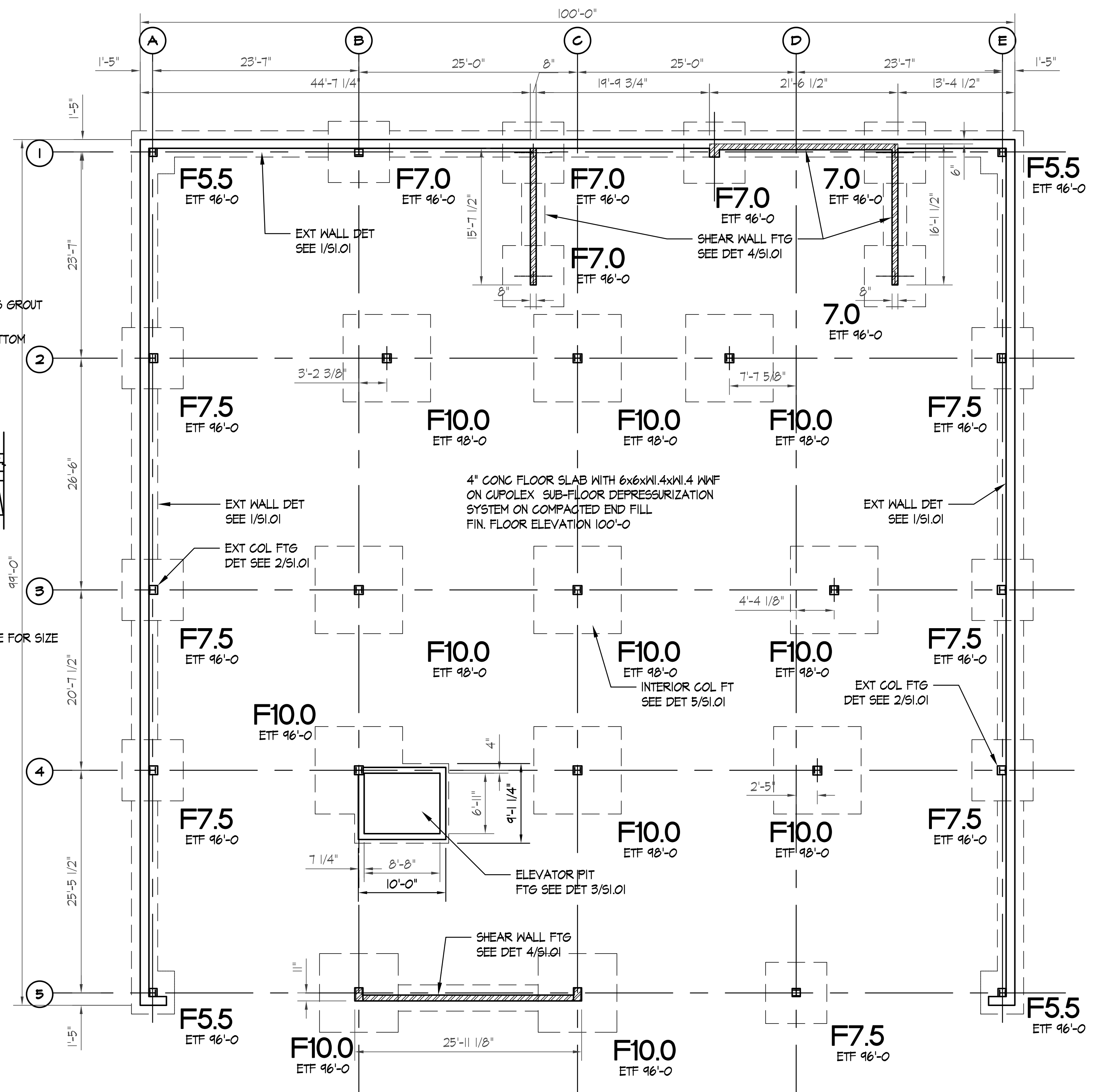
**2 WALL / COL FTG DET**  
S1.01 SCALE: 3/4" = 1'-0"

**5 INT COL FTG DET**  
S1.01 SCALE: 3/4" = 1'-0"



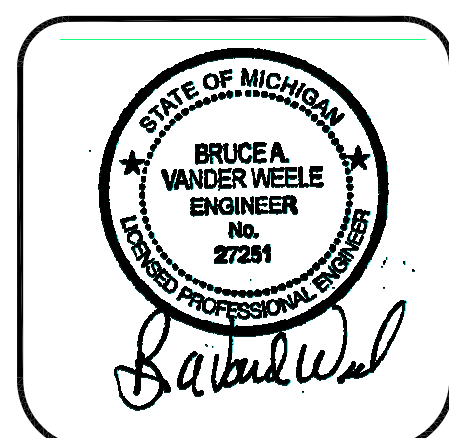
**3 ELEV WALL DET**  
S1.01 SCALE: 3/4" = 1'-0"

FOOTING SCHEDULE						
MARK	SIZE	REINFORCING	PIER SIZE	VERT	TIES	REMARKS
F5.5	5'-6 x 5'-6 x 16"	6 #6 E.W.	12" X 12"	SEE DET	SEE DET	PIER @ EXT ONLY
F7.0	7'-0 x 7'-0 x 16"	8 #6 E.W.	12" X 12"	SEE DET	SEE DET	PIER @ EXT ONLY
F7.5	7'-6 x 7'-6 x 16"	9 #6 E.W.	12" X 12"	SEE DET	SEE DET	PIER @ EXT ONLY
F10.0	10'-0 x 10'-0 x 16"	12 #6 E.W.	12" X 12"	SEE DET	SEE DET	PIER @ EXT ONLY



**FOUNDATION PLAN**  
SCALE 1/8" = 1'-0"

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ALCONA HEALTH CENTER  
NEW CLINIC  
OSCODA, MICHIGAN

FOUNDATION PLAN  
Vanderweele Design Consultants, P.C.  
6330 Torrington • Kalamazoo, Michigan 49009  
(269) 372-7227  
e mail: bvanderweele@vanderweele.com

REFERENCES:  
PLOT SCALE  
ISSUE DATE: 6/17/19  
DRAWN BY: BAV  
SHEET NO. S1.01  
PROJECT NO. 9830





III. Concrete

A. Cast In Place Concrete

- Concrete and related work shall be mixed, placed and cured in accordance with the Building Code Requirements for Structural Concrete, ACI 318 and ACI 301, latest editions. The Contractor shall make provisions for cold and hot weather concreting per the requirements of ACI 305 and 306, latest editions.
- Concrete for floor slabs shall develop an ultimate compressive strength of 4,000 psi, at 28 days, with a maximum slump of 3A at the time of placement.
- Reinforcing shall be 60,000 psi per ASTM A615.
- Welded wire fabric shall be flat sheets conforming to ASTM A185.
- Concrete cover for reinforcing bars shall conform to the minimum (1/4" minimum required) requirements found in ACI 318, unless noted otherwise on the drawings.
- Fabrication of reinforcing steel shall be in accordance with the ACI Detailing Manual, ACI 315, latest edition.
- Freshly placed concrete shall be protected from premature drying and excessively hot and cold temperatures as required in the ACI Specification.
- Provide smooth hard steel trowel finish to all concrete surfaces.
- Provide for a minimum of three (3) test cylinders for each pour, each day. Store properly and arrange for an owner approved testing agency to pick up and test. Test cylinders shall be cured and tested per the requirements of ACI-318, Section 5.6

V. Steel

A. Structural Steel

- All structural steel shall be designed, fabricated, and erected per the American Institute of Steel Construction Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, latest edition.
- Structural steel shall be:
  - ASTM A992 (Fy = 50 ksi) for W and WT sections.
  - ASTM A36 (Fy = 36 ksi) for angles, channels, misc.
  - ASTM A500 Grade B (Fy = 46 ksi) for tube steel.
  - ASTM A53 Grade B (Fy = 35 ksi) for pipe.
  - ASTM F1554-36 (Fy = 36 ksi) for anchor rods.
- All welding shall be in accordance with AWS Code D1.1, latest edition, using E70XX electrodes.
- Shop connections may be welded or bolted, unless noted otherwise.
- Structural steel bolts for main field connections shall be 3/4" diameter ASTM A-325-N bolts (bearing type connection with threads included in shear plane), unless otherwise noted, in accordance with the latest AISC Specification for Structural Joints Using A325 and A490 Bolts.
- All bolted connections shall be installed per the turn-of-the-nut procedure, unless otherwise noted on the drawings.
- Unless otherwise noted, beam connections shall be designed to support one half of the total uniform load capacity shown in the Allowable Uniform Load Tables, Part 2 of the AISC "Manual of Steel Construction", for the given beam, span and grade of steel specified. The effects of concentrated loads shall also be taken into account.

B. Steel Joists

- All steel joists shall be designed, fabricated and erected in accordance with the Steel Joist Institute (SJI) Standard Specifications, latest edition.
- Bar joists shall have diagonal bridging installed and anchored in accordance with the recommendations of the Steel Joist Institute.

C. Metal Form Deck

- All metal form deck shall be manufactured and erected in accordance with Design Manual for Composite Decks, Form Decks and Roof Decks, Steel Deck Institute (SDI), latest edition.
- Deck shall be 1A deep, 22 gage, conform metal deck. Connect to framing with 5/8" dia. puddle welds in 3/36 pattern, with (1) #10 TEK screw at side laps.

E. Cold Formed Metal Framing

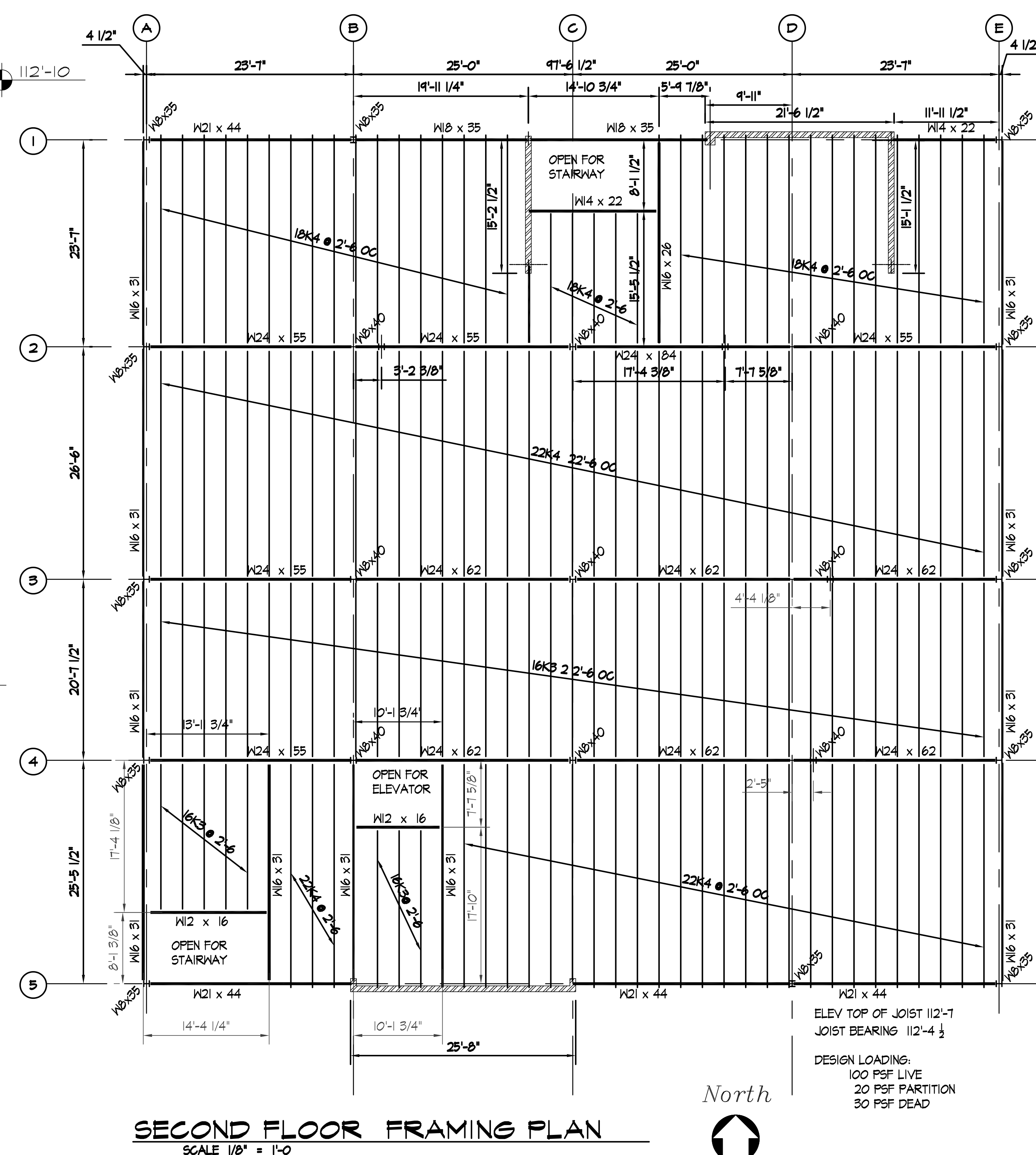
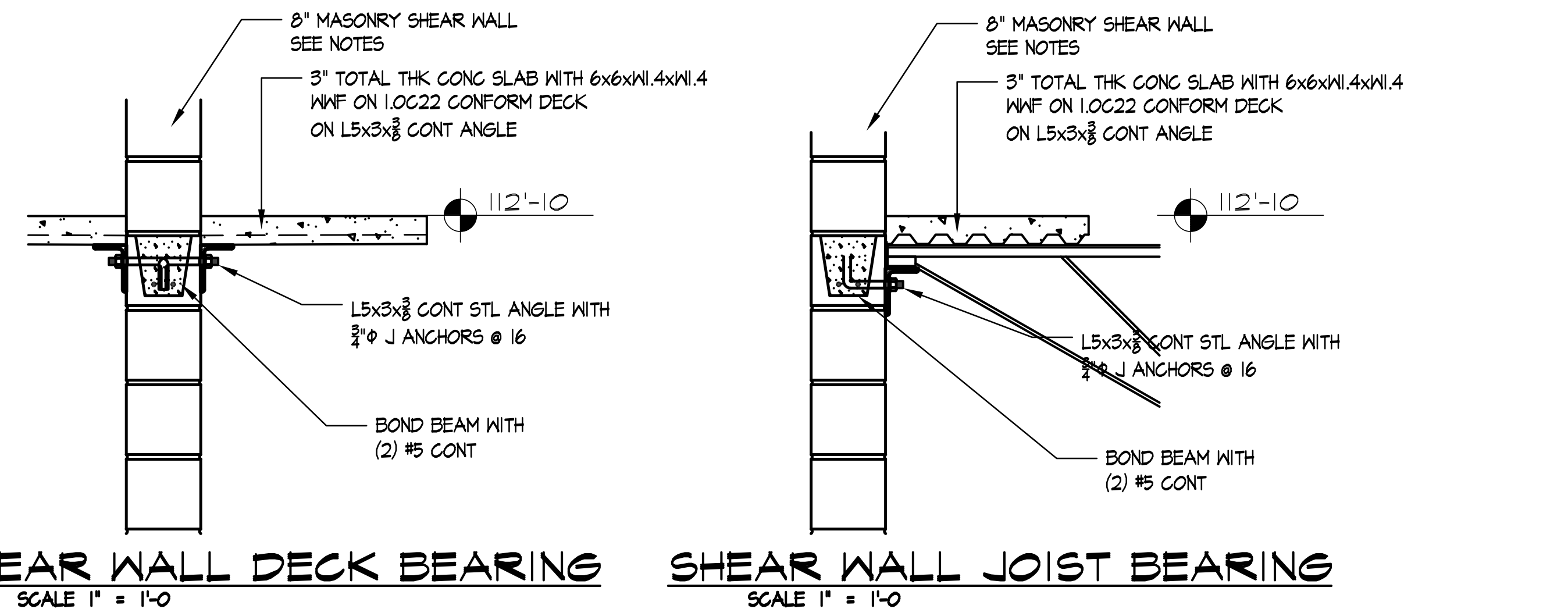
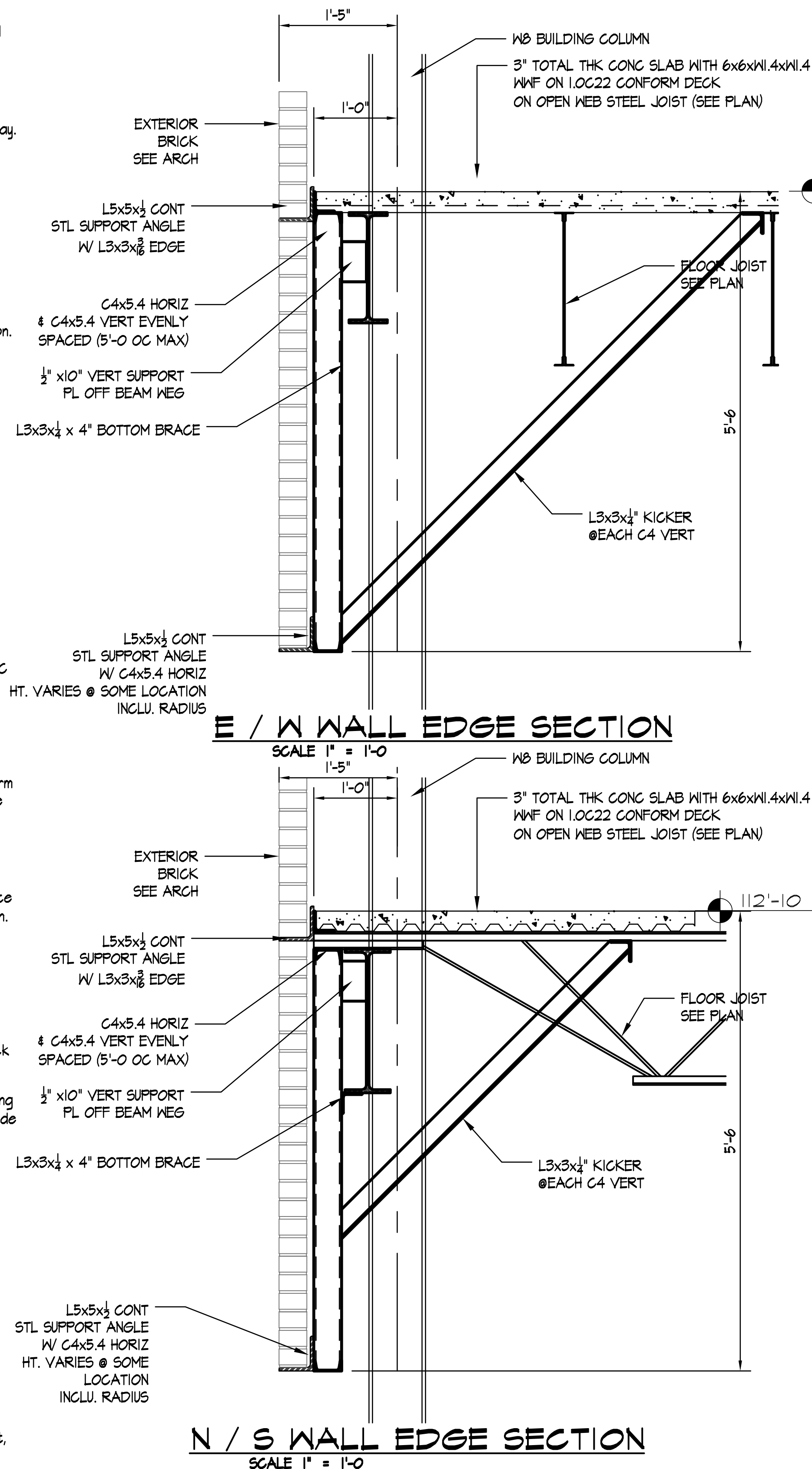
- All cold formed steel shall be designed, fabricated and erected per American Iron and Steel Institute Specification for the Design of Cold-Formed Steel Structural Members, latest edition.
- All cold formed framing members shall conform to ASTM A446 with a minimum yield as follows:
  - 12, 14, & 16 Ga.: Fy = 50 ksi.
  - 18 to 20 Ga.: Fy = 33 ksi.
- All cold formed framing members shall be galvanized A-60 coating, ASTM 525.

- Before fabrication of any material begins, provide one set of prints plus one set of reproducible prints for all structural steel being provided on the project, to the engineer for review and approval of the design compliance.

IV. Masonry

A. Concrete Masonry Units (CMU)

- Concrete masonry shall be constructed in accordance with the Building Code Requirements for Masonry Structures, ACI 530/ASCE 5, latest edition.
- Solid load-bearing unit masonry shall conform to ASTM C90 minimum net area compressive strength (f'm) shall be 1,500 psi.
- Mortar shall be Type S, freshly prepared and uniformly mixed and shall conform to ASTM C270. Mix, maintain and use mortar in accordance with good industry practice. Use mortar within 2-1/2 hours after original mixing and do not let stand more than one hour without re-tempering. Discard mortar if it has begun to set.
- Shear walls:
  - 8" masonry with (2) #5 @ 16" vertical in filled cores and ladder reinforcing in every course.
  - (6) #5 vertical in filled cores in each end
  - Horizontal bond beam with (2) #5 6'-0", 12'-0", 18'-0" & 25'-4" (top of bb)
  - Provide reinf connectors at top of wall for future extension for all vertical reinf





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- Unless otherwise noted, beam connections shall be designed to support one half of the total uniform load capacity shown in the Allowable Uniform Load Tables, Part 2 of the AISC "Manual of Steel Construction", for the given beam, span and grade of steel specified. The effects of concentrated loads shall also be taken into account.

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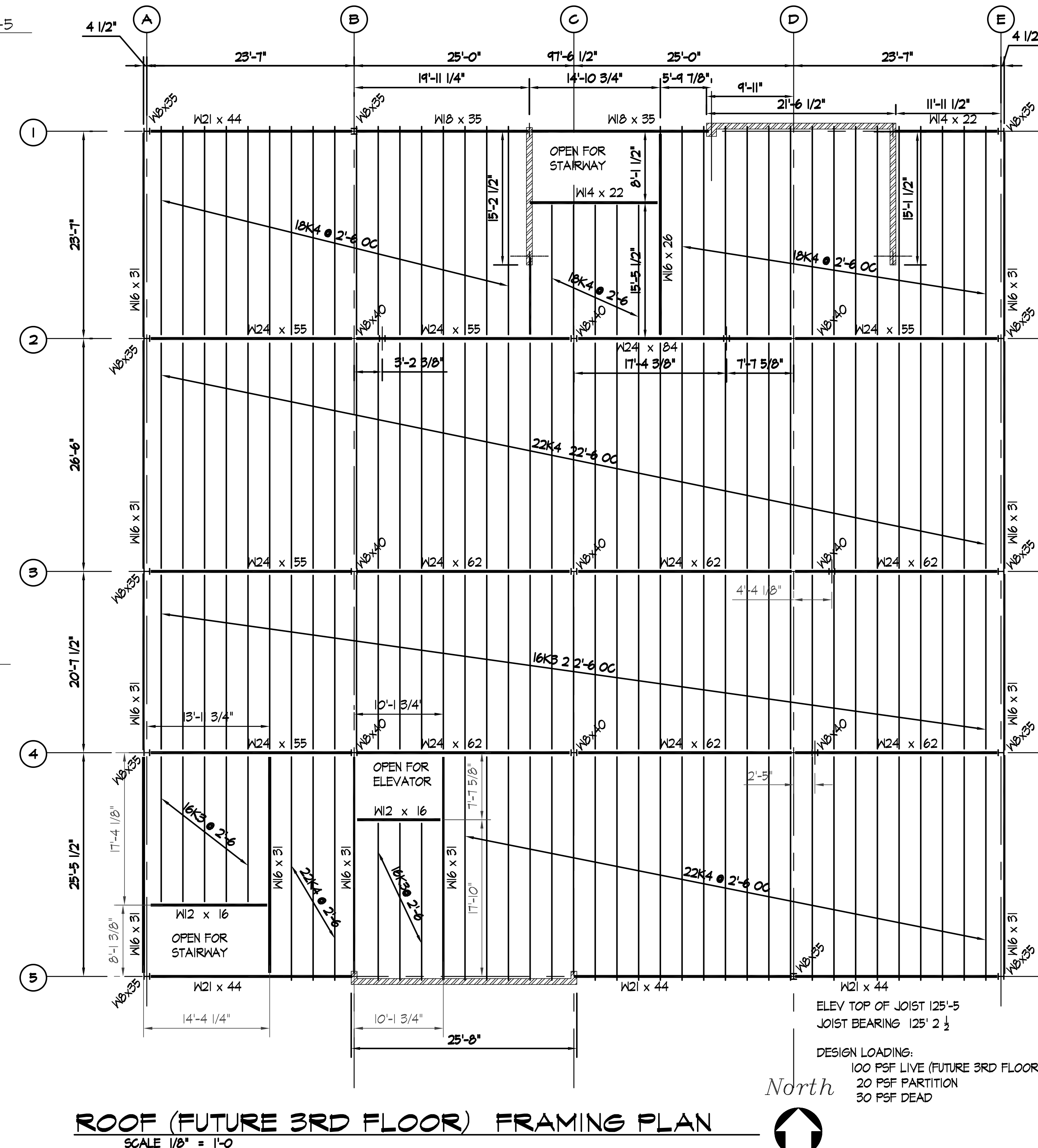
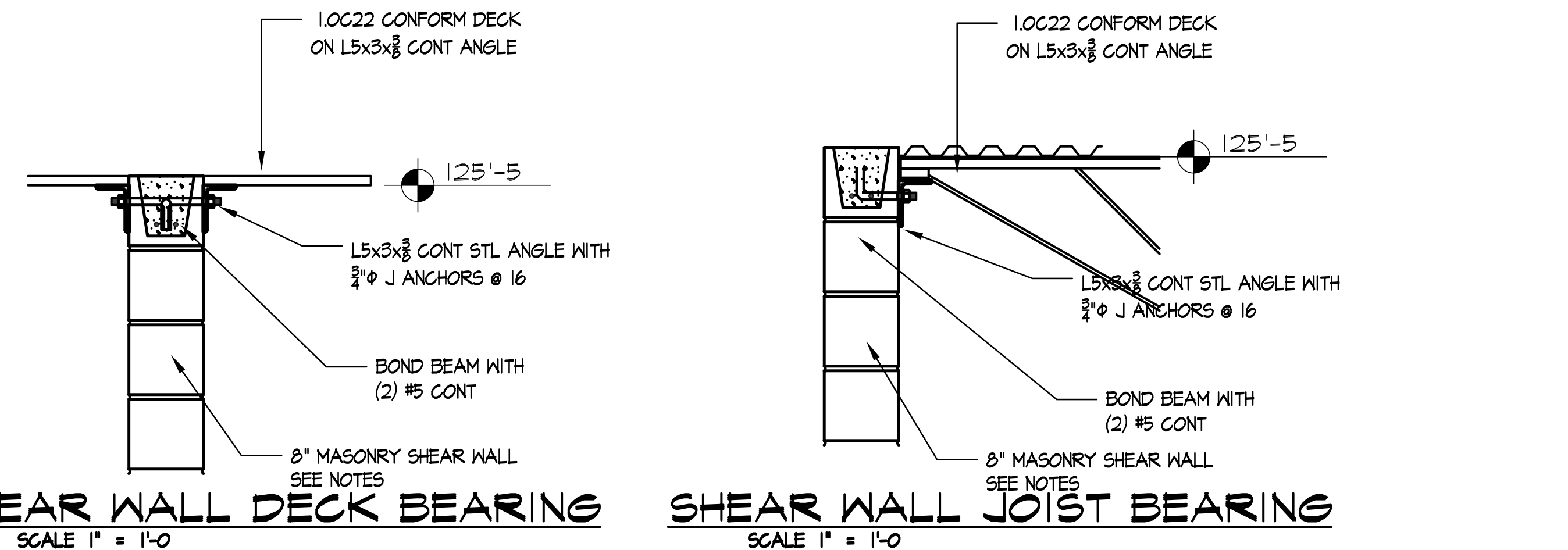
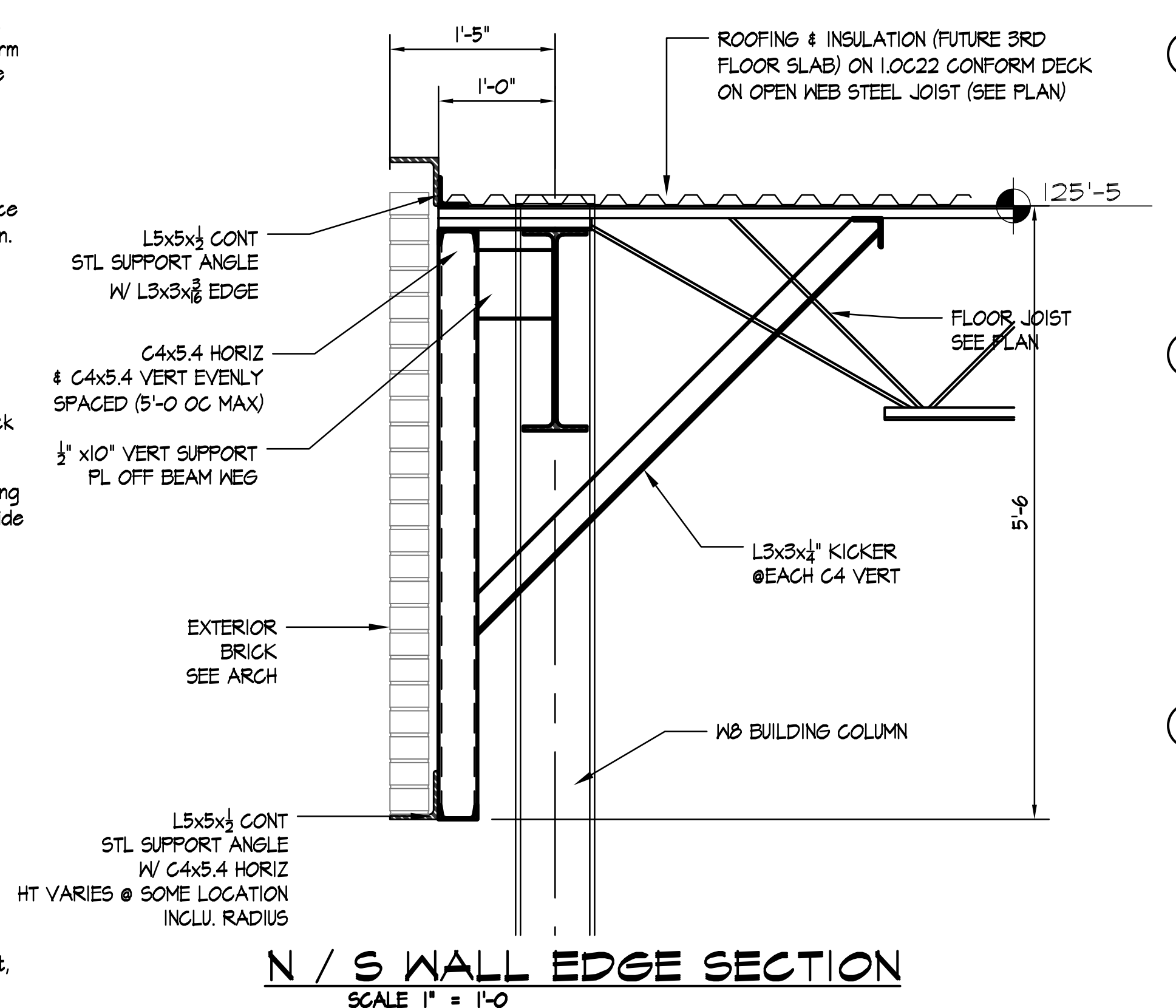
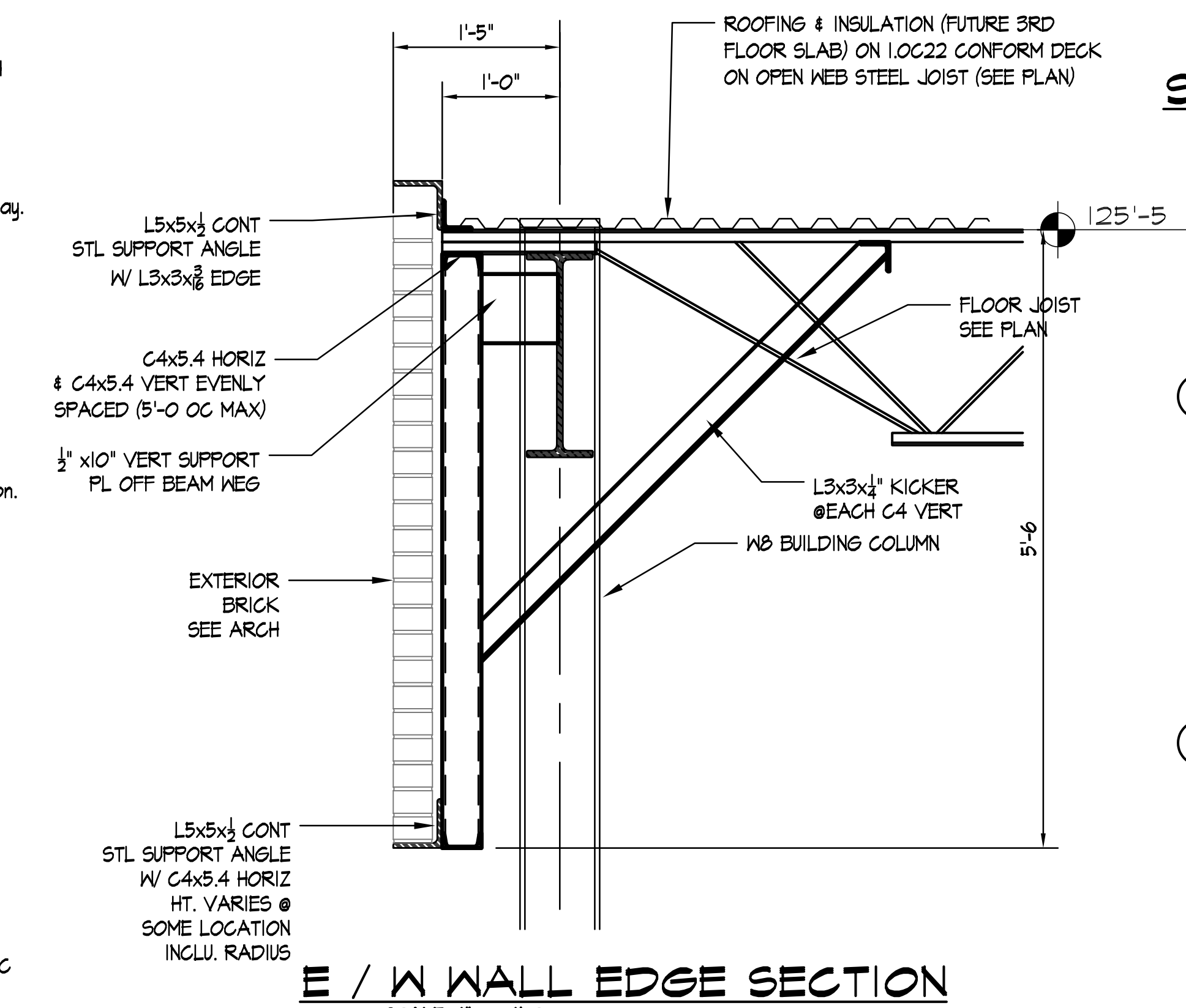
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  - 18 to 20 Ga.: Fy = 33 ksi.
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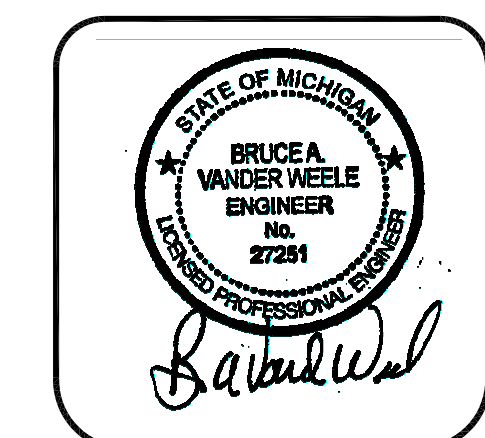
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- Solid load-bearing unit masonry shall conform to ASTM C90 minimum net area compressive strength (f'm) shall be 1500 psi.
- Mortar shall be Type S, freshly prepared and uniformly mixed and shall conform to ASTM C270. Mix, maintain and use mortar in accordance with good industry practice. Use mortar within 2-1/2 hours after original mixing and do not let stand more than one hour without re-tempering. Discard mortar if it has begun to set.
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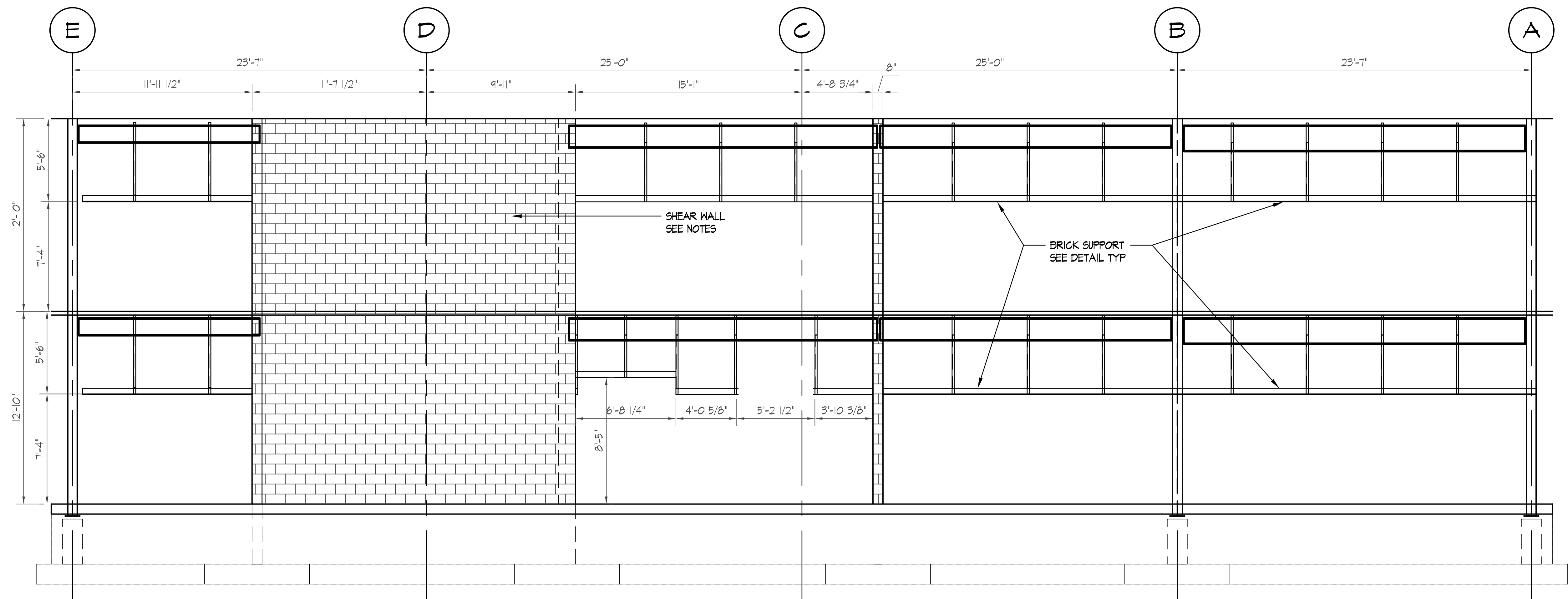


ALCONA HEALTH CENTER  
NEW CLINIC  
MICHIGAN  
OSCODA

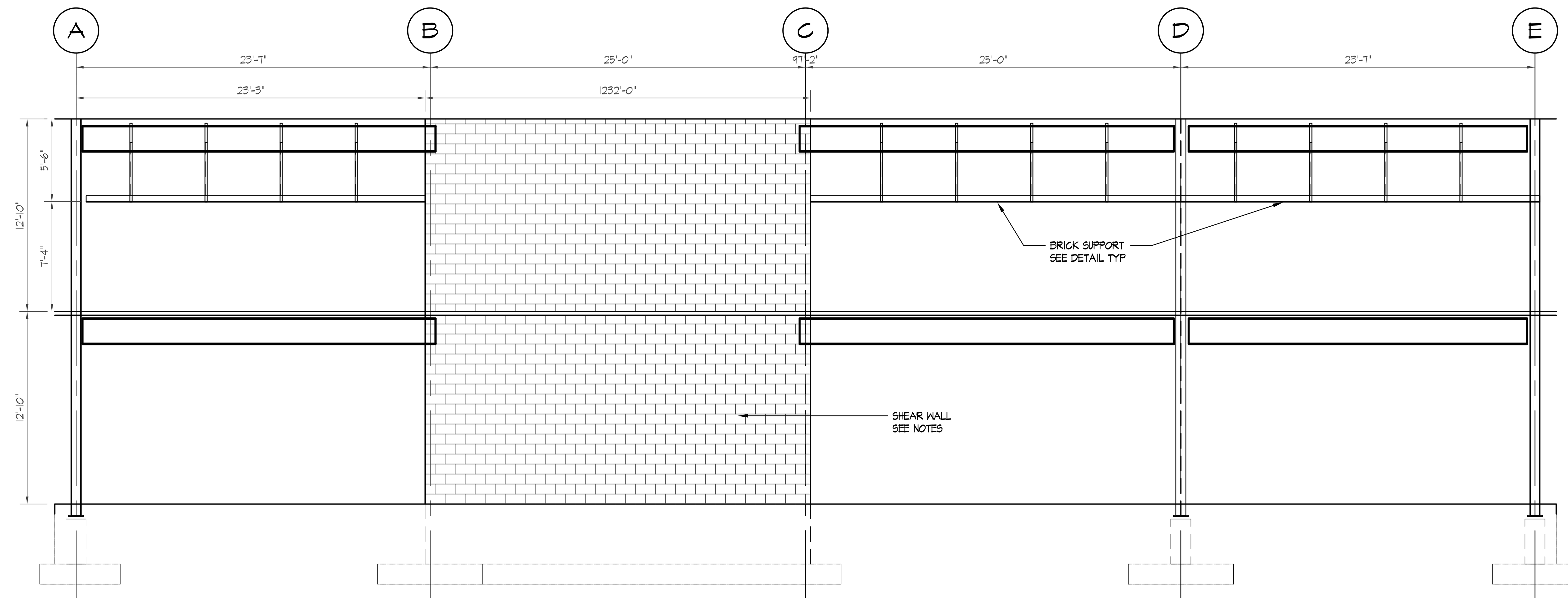
ROOF (FUTURE 3RD FLOOR) FRAMING  
Vanderweele Design Consultants, P.C.  
6330 Torrington • Kalamazoo, Michigan 49009  
(269) 372-7227 Fax: (269) 372-3964  
e mail: bvanderweele@vanderweele.com

XREFs.  
PLOT SCALE  
ISSUE DATE: 6/17/19  
DRAWN BY: BAV  
SHEET NO. 3.01  
PROJECT NO. 9830



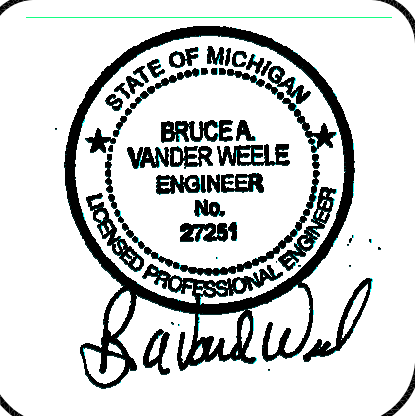


**NORTH WALL FRAMING ELEVATION**  
SCALE 1/4" = 1'-0"



**SOUTH WALL FRAMING ELEVATION**  
SCALE 1/4" = 1'-0"

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**ALCONA HEALTH CENTER  
NEW CLINIC**  
OSCODA, MICHIGAN

**N / S WALL FRAMING ELEVATION**  
**vanderweele**  
Design Consultants, P.C.  
6330 Tarrington • Kalamazoo, Michigan 49009  
(269) 372-7227 Fax: (269) 372-3954  
e mail: bvanderweele@vanderweele.com

**XREFs.**

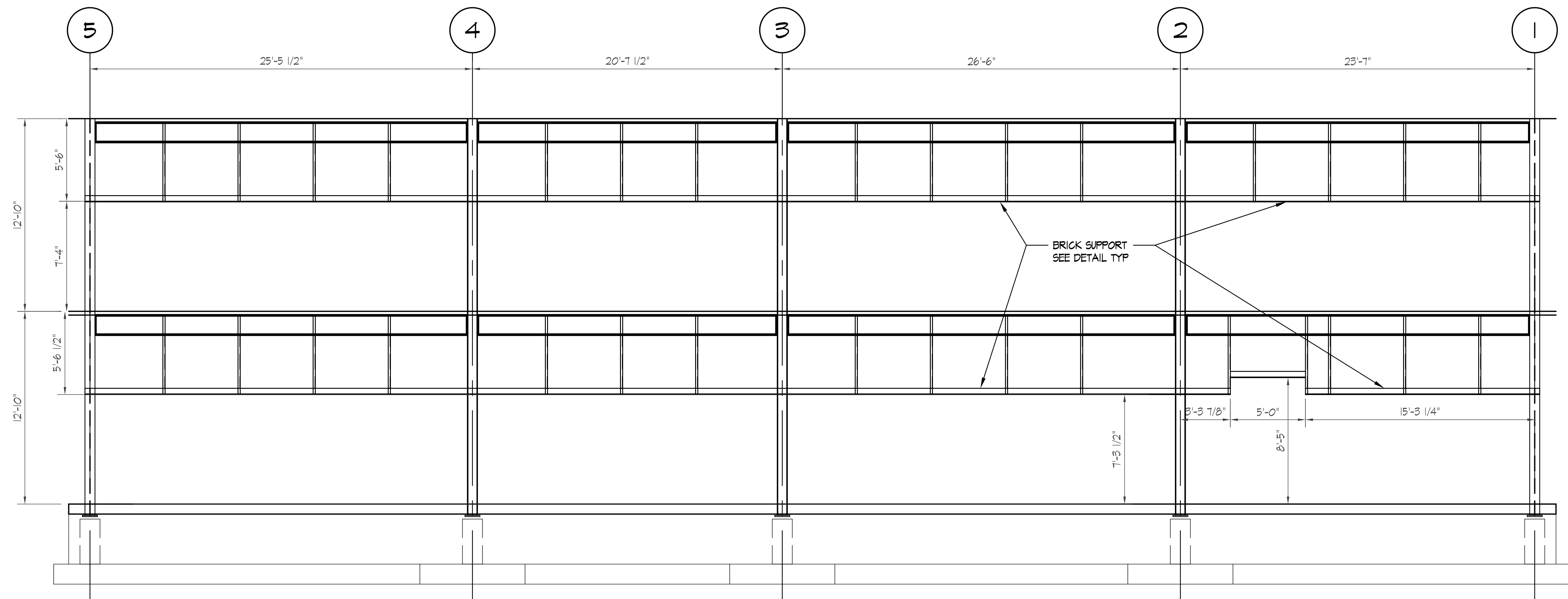
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**ISSUE DATE:**  
6/17/19

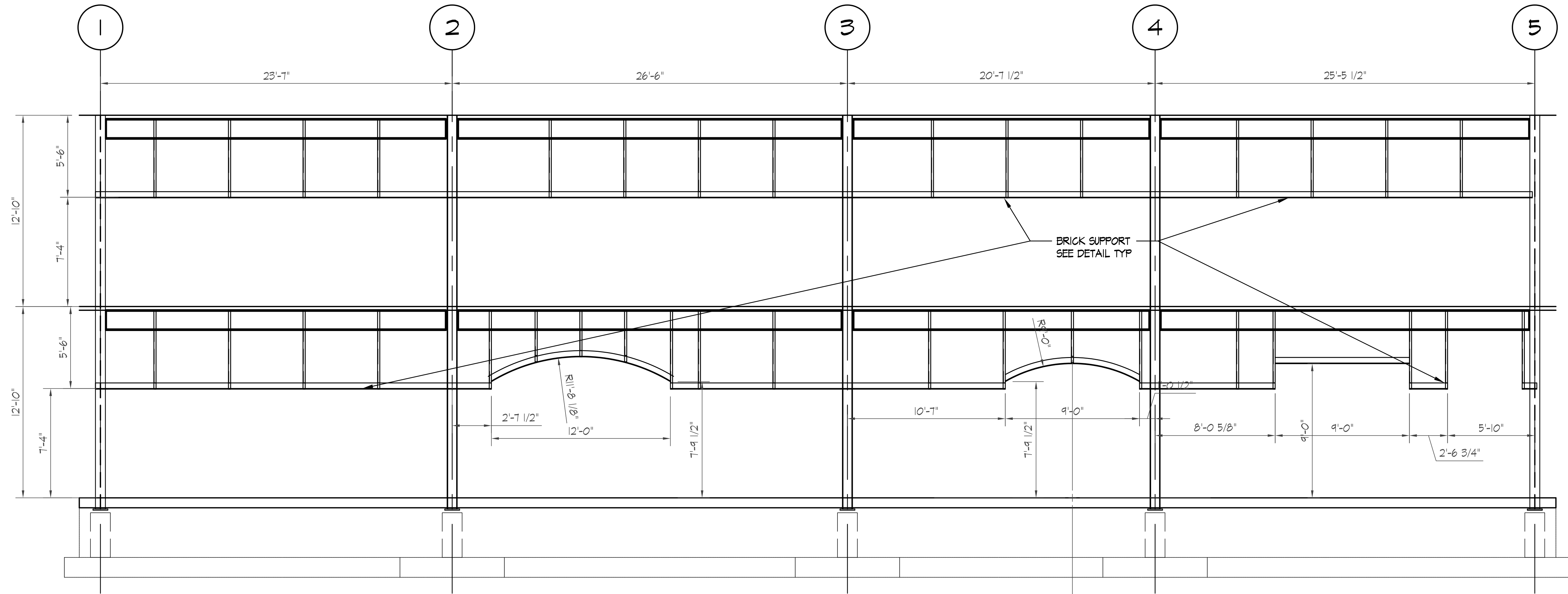
**DRAWN BY:**  
BAV

**SHEET NO.**  
**S4.01**

**PROJECT NO.**  
**9830**

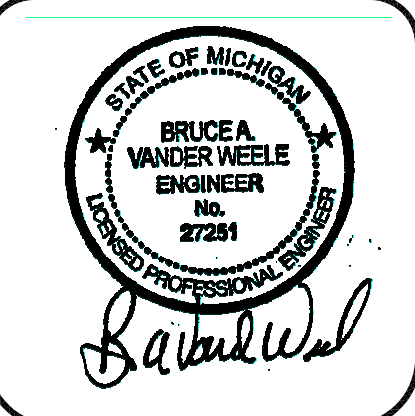


**EAST WALL FRAMING ELEVATION**  
SCALE 1/4" = 1'-0"



**WEST WALL FRAMING ELEVATION**  
SCALE 1/4" = 1'-0"

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ALCONA HEALTH CENTER  
NEW CLINIC  
OSCODA, MICHIGAN

**E / W WALL FRAMING ELEVATION**  
Vander Weele  
Design Consultants, P.C.  
6330 Tarrington • Kalamazoo, Michigan 49009  
(269) 372-7227 Fax: (269) 372-3964  
e mail: bvanderweele@vanderweele.com

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ISSUE DATE:  
6/17/19

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BAV

SHEET NO.  
**S4.02**

PROJECT NO.  
**9830**