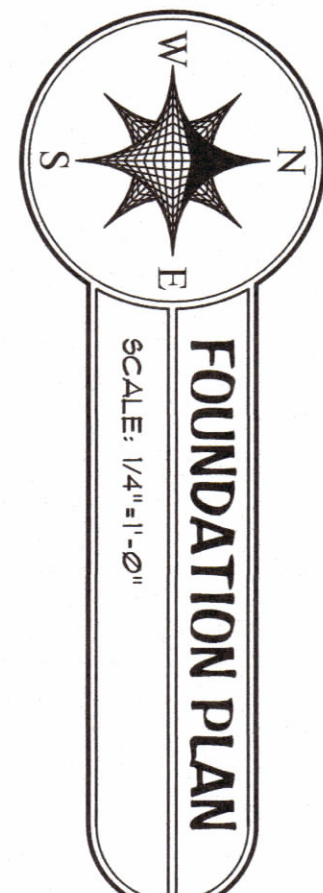
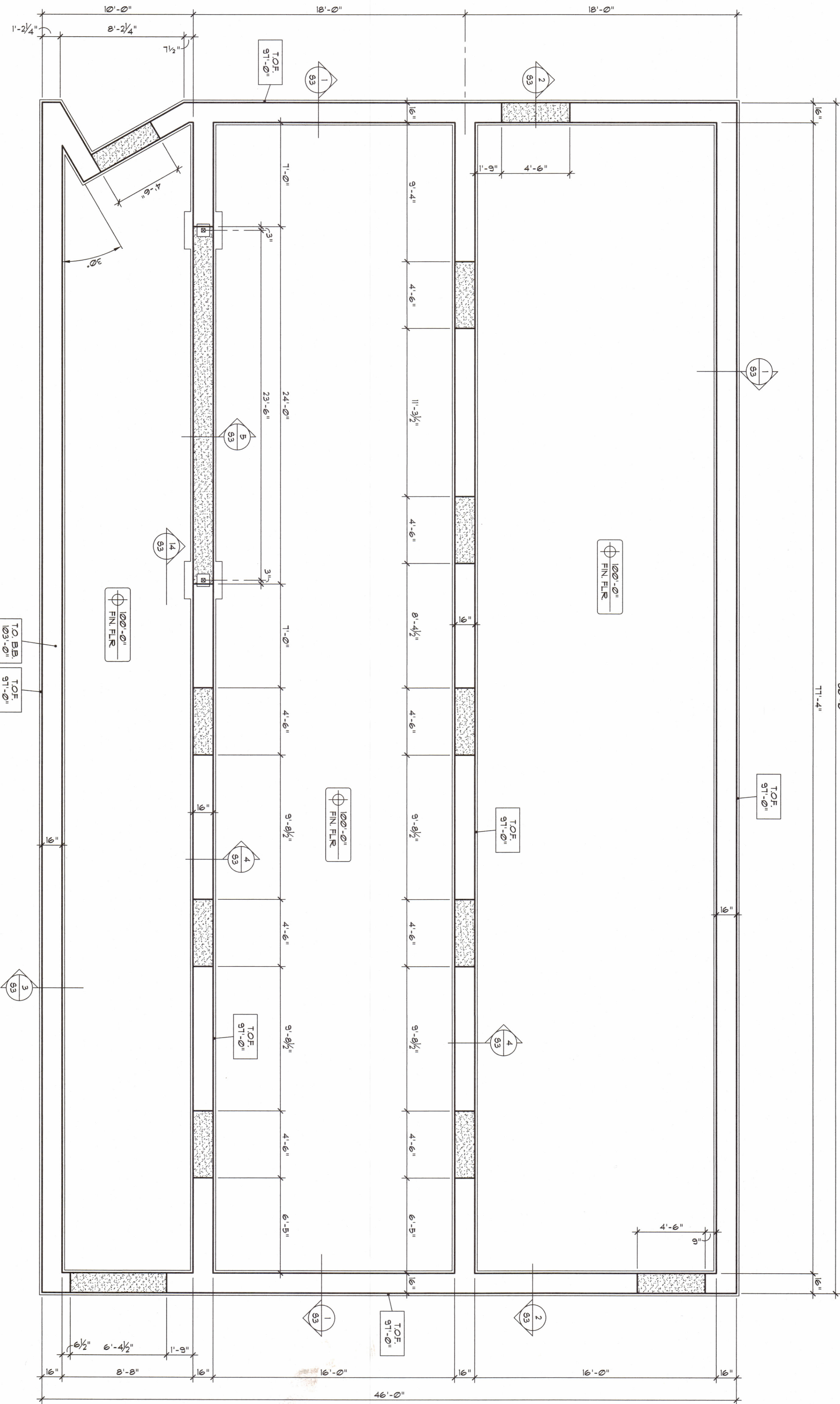


GENERAL NOTES

1. This project is designed in accordance with the International Residential Code (IRC) 2021 Edition.
2. Dead Loads:
 - A. Roof: 15 psf
 - B. Floor: 40 psf
 - C. Wind: 130 mph, Exposure 'C'
3. Foundation:
 - A. The structure shall be founded on spread footings placed on undisturbed, natural soil with an assumed maximum bearing capacity of 3,000 psf.
 - B. Minimum frost depth of footings shall be 36" top of finished grade to bottom of footing. Field verify all top of footing elevations.
4. Concrete:
 - A. Concrete has been designed and shall be constructed in accordance with the "Building Code Requirements for Structural Concrete" (ACI 318). All concrete shall be of stone aggregate, unless noted otherwise.
 - B. Minimum 28 day compressive strength shall be:
 - (1) Slabs: 4000 psi
 - (2) All other walls: 3000 psi
 - (3) All other concrete: 4000 psi
 - C. All other walls shall be cast with 2000 psi concrete, except bars to be welded shall be ASTM A705, grade 60. Provide corner bars to match all horizontal reinforcing. Provide (2) #5 around all openings in concrete and extend bars 24" past edges of openings.
 - D. Lap Splices shall be Class B. Use the following lap lengths: U.N.O.
 - (1) a 57 bar diameters for 3,000 psi concrete.
 - (2) 50 bar diameters for 4,000 psi concrete.
 - E. Reinforcing placement: Provide chairs, stirrups, additional reinforcement, and accessories necessary to support reinforcement at position shown. Support of reinforcement shall be allowed by bracing, or other unobscurable material will not be allowed.
 - F. Minimum concrete cover:
 - (1) Concrete cast against and permanently exposed to earth: 3 inches
 - (2) Concrete exposed to earth or weather:
 - a. 2 inches
 - b. #5 bar and larger: 2 inches
 - c. #5 bar and smaller: 1.5 inches
 - G. Anchor rods (Anchor bolts) shall be grade 36, conforming to ASTM F 1554, and shall have a minimum concrete embedment of 7" with a 2" hook, unless noted otherwise.
 - H. Exterior stainless steel shall be 4" thick (minimum) reinforced steel.
 - (1) Minimum welds per AISC Specification and AWS D1.1, not less than continuous 3/16" fillet, E70XX electrodes, be done to develop 1.3 times the yield strength of the base metal.
5. Steel:
 - A. Structural steel shall be detailed and erected in accordance with the American Institute of Steel Construction Specifications and Code of Standard Practice. Minimum yield strength: 50 ksi for square/rectangular HSS (ASTM A500, GR. C) and 60 ksi for all other members (ASTM A36).
 - B. Connections:
 - (1) Minimum welds per AISC Specification and AWS D1.1, not less than continuous 3/16" fillet, E70XX electrodes, be done to develop 1.3 times the yield strength of the base metal.
 - C. Column base plates that require grout shall bear on non-sink grout.
6. Wood:
 - A. Framing lumber shall be (U.N.O.):
 - (1) Studs: Hem-Fir SUD grade
 - (2) Headers: Hem-Fir #2
 - (3) Joists/Rafters: Hem-Fir #2
 - B. Wood construction shall be in conformance with the National Design Specification for Wood Construction, and Chapter 23 of the IRC. All wood shall be kiln-dried to a maximum moisture content that meets the structural calculations of these drawings. All nail holes shall be filled to produce the maximum hanger capacity. See manufacturer for solid web blocking behind certain hangers that bear on steel beams.
 - C. Simpson: 1-800-999-5099, M.T.K.: 1-800-328-9524
 - D. Shims shall be galvanized connectors, washers and anchors.
 - E. Exterior walls shall be fully sheathed with 7/16" oriented strand board (OSB), or approved equivalent.
 - F. Plywood web joists and Vers-Join LVL (2" E - noted V.L. on plans) shall be manufactured by Boise Cascade, or approved equivalent. Joists and beams shall not be modified without the written consent of the Structural Engineer.
7. Earth-Retention Walls:
 - A. Walls will be constructed using the Superfabb process, as noted on the CallEarth website: www.callearth.org.
 - B. Sandbags are filled with moistened earth. Stabilizers such as cement, lime or asphalt emulsion will be added.
 - C. Dimensions on these Structural drawings shall be verified with the Architectural drawings and any discrepancy shall be brought to the Architect's attention.
 - D. DRAWINGS SHALL NOT BE SCALED. Written dimensions shall take precedence over scaled measurements.
 - E. Copying these drawings for shop drawing use will not be permitted.
 - F. Any and all material substitutions shall be approved by the Structural Engineer prior to construction.
8. Valentin Engineering's electronic or digital seal or signature published by Valentin Engineering, Valentin Engineering is not responsible for any subsequent modification, completion, or unauthorized use of such document. To verify validity or applicability of the seal or signature, contact Valentin Engineering.



FOUNDATION PLAN	
GENERAL NOTES	
Project:	24.025
Date:	April 5, 2024
Revision:	
S1	
SCALE BAR: 1/4" = 1'-0"	

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RIEDEL RESIDENCE

Lot 9
Major Ranch, Phase # 2
Huerfano County, Colorado

