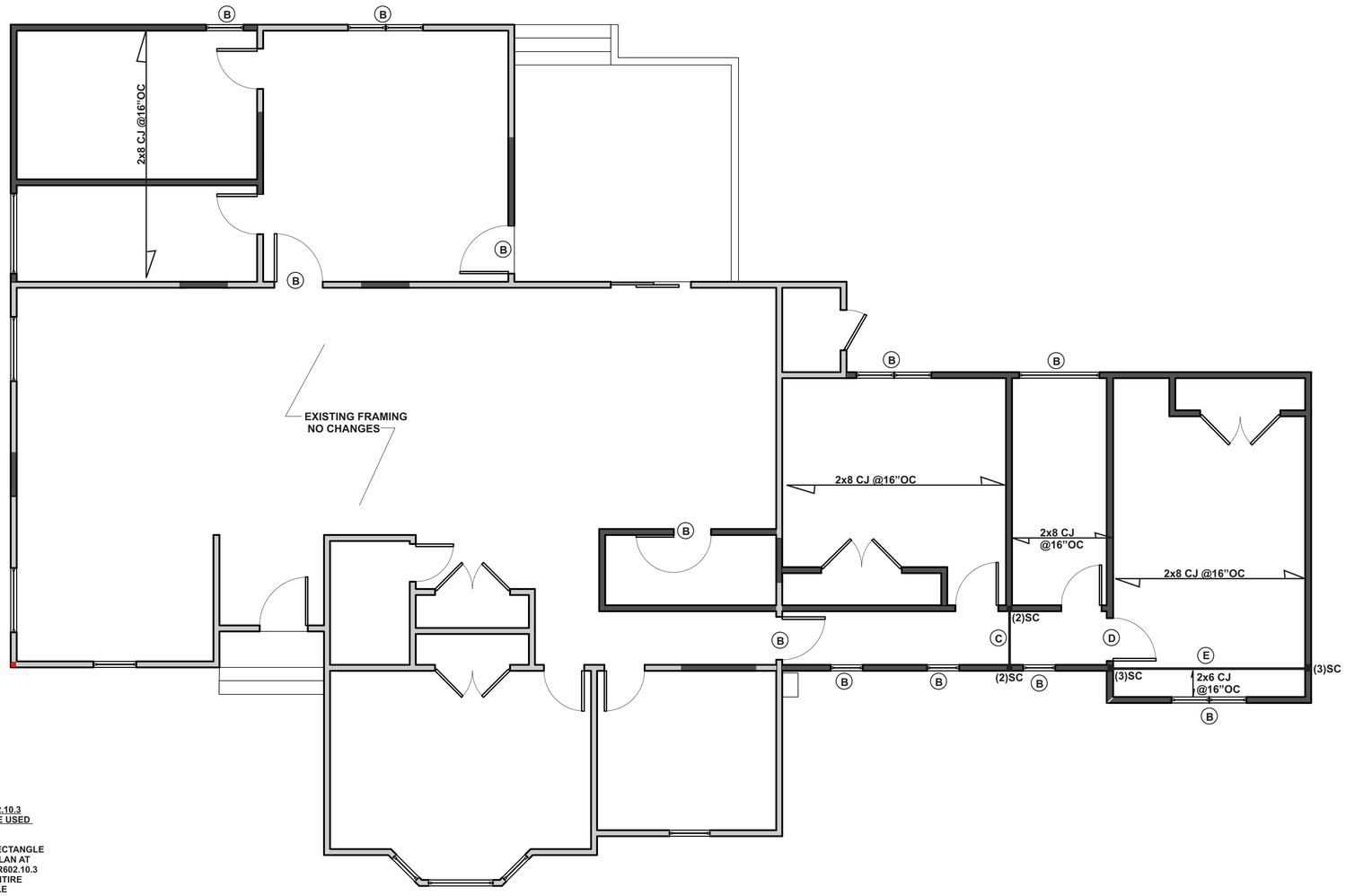

CEILING FRAMING

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

STRUCTURAL NOTES:

1. Framing lumber shall be #2 SPF (modulus of of elasticity 1,100,000 psi., fb 950). All beams & treated lumber to be #2 SYP, E=1,600,000, fb=1100 min. Studs min.#2 or stud grade.
2. Use hangers for all beam to beam connections Structural fastening as per R602.3(1). Adequate connections is the sole responsibility of the general contractor and his subs.
3. Structural members fastening to conform to Table R602.3(1) and (2).
4. Roof Framing Notes:
   a. Dbl Hips may be spliced with a min, 6'-0" overlap at center. No valley splices
   b. Use 2x10 or fir down rafters for vaulted areas
   c. Attach each vaulted rafters with hurricane connectors: Simpson H-2.5, H-5 or approved equal or 6" SDWC's.
5. All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, plus all local codes & regulations or 2015 IBC.
6. Structural Engineer is not responsible for and will not control of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction work.
7. Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in accordance with the contract document.
8. Use Method #3 for Structural Sheathing; **"Accepted Engineer's Practice"**

FRAMING NOTES:

1. Design Loads (R301.5)

	Live Loads (PSF)	Dead (PSF)
Rooms not for Sleeping	40	10
Sleeping Rooms	30	10
Attic w/Permanent Stairs	40	10
Attic w/o Permanent Stairs	20	10
Attic w/o Storage	10	10
Stairs	40	–
Exterior Balconies	60	10
Decks	40	10
Guardrails & Handrails	200	–
Passenger Vehicle Garages	50	10
Fire Escapes	40	10
Snow	20	–

   Wind Load: (Refer to Table R301.2.4) Verify Zone before Construction
2. Wall Bracing: Braced wall panels shall be in accordance with section R602.10.3 continuous sheathing. Bracing method CS-WSP shall be used in accordance with Table R602.10.1 The required length of bracing for each side of a rectangle circumscribed around the plan or a portion of the plan at each story level shall be in accordance with Table R602.10.3 & figure R802.103(1). Unless noted otherwise, the entire is assumed to circumscribed within a single rectangle.
3. All framing lumber shall be SPF#2 (Fb=875 psi) unless otherwise noted (UNO). All treated lumber shall be SYP#2 (Fb=975 psi). Plate material may be SPF#3 or SYP#3 (Fc (perp.) = 425 psi min.)
4. All exterior headers to be (2)2x10 spf. u.n.o w/ dbl. Jacks for all openings >5'-0".
5. All interior bearing headers to be (2)2x10 u.n.o. w/ dbl. jacks for all openings >4'-6", use (2)2x8 w/ dbl. Jacks for all openings >3'-0" u.n.o.
6. All interior non-bearing headers to be min. (2)2x4 flat u.n.o.
7. Fireblock to conform with R602.8

HEADER SCHEDULE
(A) (2) 2x10's Flush
(B) (2) 2x10's Dropped
(C) (2) 2x8's Flush
(D) (2) 2x8's Dropped
(E) (2) 9.25" LVL's Flush
(F) (2) 9.25" LVL's Dropped

WALL BRACING NOTES:

WALL BRACING SHALL BE IN ACCORDANCE WITH SECTION R602.10.3 CONTINUOUS SHEATHING. BRACING METHOD CS-WSP SHALL BE USED IN ACCORDANCE WITH TABLE R602.10.1

1. THE REQUIRED LENGTH OF BRACING FOR EACH SIDE OF A RECTANGLE CIRCUMSCRIBED AROUND THE PLAN OR A PORTION OF THE PLAN AT EACH STORY LEVEL SHALL BE IN ACCORDANCE WITH TABLE R602.10.3 AND FIGURE R602.10.3(1). UNLESS NOTED OTHERWISE, THE ENTIRE STRUCTURE IS ASSUMED TO CIRCUMSCRIBED WITHIN A SINGLE RECTANGLE.
2. MINIMUM PANEL WIDTH IS 24". SEE SECTION R602.10.3 FOR ADDITIONAL INFORMATION. CONNECTION CRITERIA SHALL BE IN ACCORDANCE WITH TABLE R602.10.1.
3. PORTAL FRAME CONSTRUCTION SHALL BE IN ACCORDANCE WITH FIGURE R602.10.1.
4. HOLD DOWN DEVICE SHALL BE AS FOLLOWS: SIMPSON LSTA24 STRAP (OR EQUIVALENT) BETWEEN FLOORS EXTENDING FROM BOTTOM OF FLOOR BAND AND UP THE STUDS PER SITE PER BUILDER SIMPSON HD3B HOLD DOWN (OR EQUIVALENT) WHERE REQUIRED TO CONNECT DIRECTLY TO FOUNDATION.

LEGEND

- EXISTING WALLS
- PROPOSED NEW WALL
- WALL BELOW
- EXTERIOR WALL BELOW
- VAULTED CEILING LINE
- WALL REMOVED

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20239 PATRICK E. TEAGUE 2025

Engineered by:
Patrick E. Teague, PE
Date: 3/11/22
North Carolina License # 20239

SHEET NUMBER

S2

PROJECT #PO23110JB