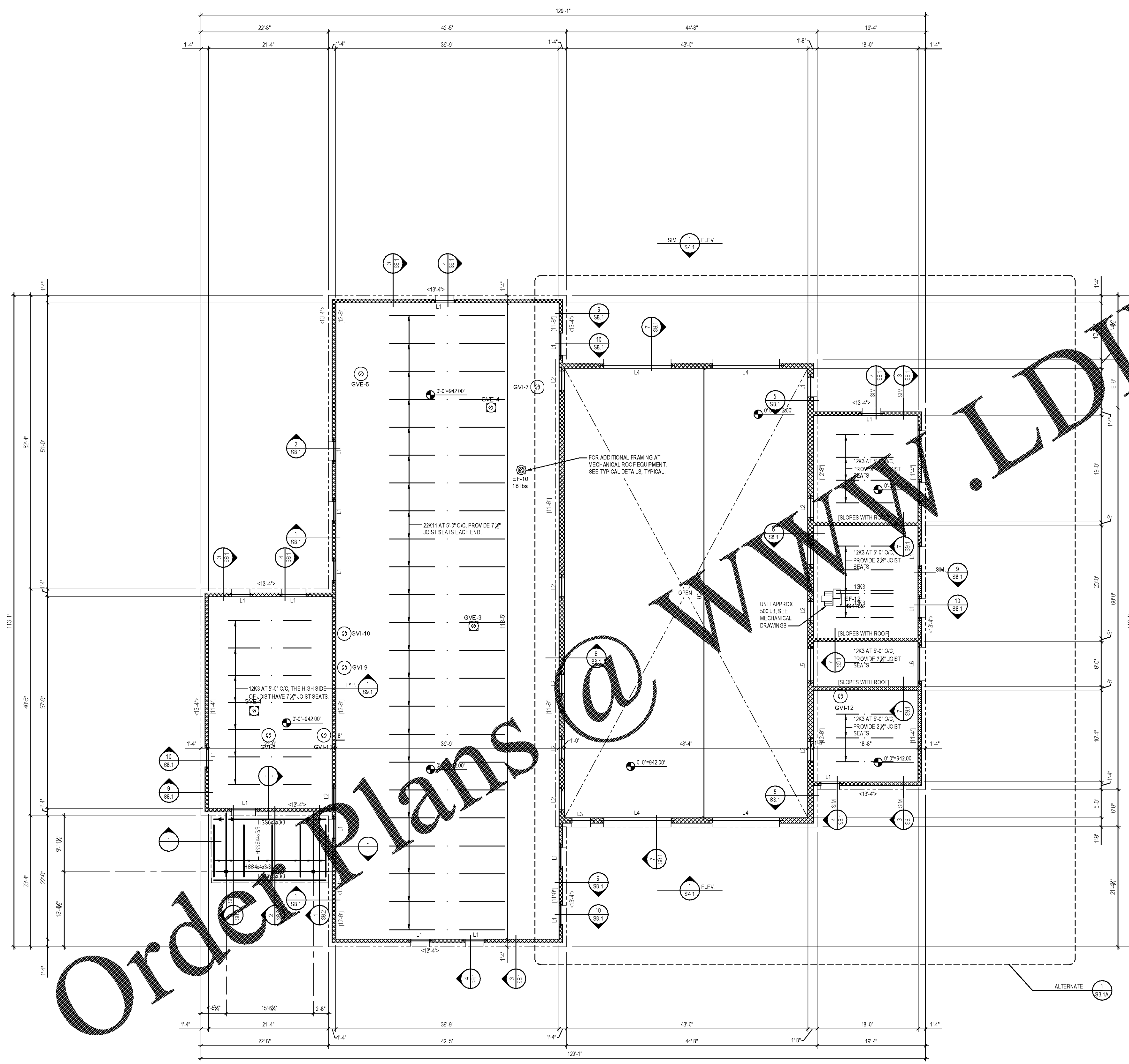

1 LOW ROOF FRAMING PLAN
S3.1 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. ELEVATIONS:
   A. THE REFERENCE ELEVATION (0'-0"=942.00') FOR ALL ELEVATIONS SHOWN ON THE ROOF PLANS SHALL BE THE TOP OF THE FIRST FLOOR SLAB-ON-GRADE. SEE SITE PLAN FOR SPECIFIED ELEVATION OF FIRST FLOOR.
   B. THE FOLLOWING SYMBOLS ARE USED ON THE ROOF PLANS TO NOTE ELEVATIONS ABOVE THE REFERENCE ELEVATION DEFINED ABOVE.
      (...) TOP OF STEEL BEAM
      [...] JOIST BEARING ELEVATION ON MASONRY WALL
      < ... > TOP OF MASONRY WALL
   C. {ALTERNATE TEXT} THE DECK BEARING ELEVATION VARIES WITH THE ROOF SLOPE, SEE PLAN FOR ELEVATIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS. PROVIDE UNIFORM SLOPE OF STEEL FRAMING BETWEEN SPECIFIED HIGH AND LOW POINTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALIGNMENT OF ADJACENT FRAMING MEMBERS FOR PROPER INSTALLATION OF ROOF DECK.
2. THE FOLLOWING LINE TYPES REPRESENT WALLS ABOVE AND BELOW THE ROOF DECK:
   LOAD BEARING WALL
   NON-LOAD BEARING WALL BELOW ROOF
3. SCHEDULED ITEMS:
   BP... BEAM BEARING PLATES, SEE S7.2.
   L... MASONRY WALL LINTELS, SEE S7.2.
4. SUSPENDED LOADS:
   A. ALL LOADS SUSPENDED FROM THE ROOF FRAMING SHALL BE CONNECTED TO THE MAIN FRAMING MEMBERS ONLY. NO LOADS SHALL BE SUSPENDED FROM THE ROOF DECK OR BAR JOIST BRIDGING. SEE TYPICAL DETAIL FOR ATTACHMENT OF SUSPENDED LOADS TO BAR JOISTS.
   B. SUSPENDED LOADS SHALL BE EVENLY DISTRIBUTED TO THE STRUCTURE ABOVE BY HANGER ASSEMBLIES.
   C. PRIOR TO INSTALLING SUSPENDED EQUIPMENT WEIGHING MORE THAN 500 POUNDS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL THE WEIGHT, LOCATION, AND HANGER POINT LOCATIONS.
5. ROOF DECK:
   A. UNLESS OTHERWISE NOTED, ROOF DECK SHALL BE 1-1/2", 20 GA., TYPE-B, WIDE RIB. ALL ROOF DECK SHALL BE GALVANIZED. SEE TYPICAL ROOF DECK FASTENER LAYOUT FOR DECK ATTACHMENT.
   B. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO ROOF DECKING INCLUDING THOSE INDICATED BELOW:
      "ROOF DECK FASTENER LAYOUT"
      "FRAMED ROOF OPENING DETAIL"
   C. WHEREVER POSSIBLE, DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS.
   D. ALL EDGES OF ROOF DECK SHALL BE CONTINUOUSLY SUPPORTED, INSTALL MISCELLANEOUS STEEL AS REQUIRED.
   E. COORDINATE WITH RELATED DRAWINGS THE SIZE AND LOCATION OF ANY OPENINGS REQUIRED THROUGH ROOF DECK WHETHER SHOWN ON THE STRUCTURAL PLAN OR NOT. FRAME ALL OPENINGS GREATER THAN 6", INCLUDING ROOF DRAINS, WITH ANGLE FRAME. SEE TYPICAL DETAIL.
6. ROOF BEAMS:
   A. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO STEEL BEAMS INCLUDING THOSE INDICATED BELOW:
      "FRAMED BEAM CONNECTION"
      "THROUGH PLATE CONNECTION DETAIL"
      "MOMENT CONNECTION"
      "STEEL BEAM CONTINUOUS OVER COLUMN"
7. ROOF JOISTS:
   A. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO JOISTS INCLUDING THOSE INDICATED BELOW:
      "JOIST BRIDGING ATTACHMENT DETAIL"
      "DETAIL FOR ATTACHMENT OF SUSPENDED LOADS TO BAR JOISTS".
      "BOTTOM FLANGE BRACE FOR BEAMS SUPPORTING JOISTS"
   B. ALL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
      (1) UNIFORMLY DISTRIBUTED GRAVITY LOADS AND DEFLECTIONS AS INDICATED BY JOIST DESIGNATION.
      (2) 25 PSF NET WIND UPLIFT.
      (3) ADD-LOAD: A CONCENTRATED DEAD LOAD OF 400 [1000 FOR LH] POUNDS IN ADDITION TO UNIFORM LOADS THAT MAY BE APPLIED TO ANY TOP OR BOTTOM CHORD PANEL POINT.
      (4) BEND-CHECK LOAD: CHORD MEMBERS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 POUNDS THAT MAY BE APPLIED AT ANY TOP OR BOTTOM CHORD LOCATION ALONG THE JOIST. THIS LOAD IS NOT IN ADDITION TO THE SPECIFIED UNIFORM LOADS.
   C. JOIST EXTENSIONS SHALL BE TYPE R5, TYPICAL UNLESS NOTED OTHERWISE.
   D. JOISTS MARKED ON PLANS AS "SP...." SHALL BE SPECIAL JOISTS DESIGNED BY THE JOIST MANUFACTURER FOR THE LOAD AND DEFLECTION REQUIREMENTS SHOWN IN THE SPECIAL JOIST ELEVATIONS. UNLESS NOTED OTHERWISE, STANDARD SJI DESIGN REQUIREMENTS APPLY.
   E. JOIST BRIDGING:
      (1) PROVIDE HORIZONTAL BRIDGING FOR ALL STEEL JOISTS IN ACCORDANCE WITH SJI AND AS REQUIRED FOR WIND UPLIFT. BRIDGING SHALL BE EQUALLY SPACED ALONG THE SPAN OF THE JOIST.
      (2) WHERE BRIDGING ROWS CONFLICT WITH PIPING, DUCTS, OTHER SUCH OBSTRUCTIONS, REPLACE SINGLE LINE OF BRIDGING WITH TWO LINES ON EACH SIDE OF THE OBSTRUCTION. ALSO, TERMINATE THE INTERRUPTED HORIZONTAL BRIDGING ON EACH SIDE OF THE OBSTRUCTION WITH CROSS BRIDGING.

FOR CONSTRUCTION

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ARCHITECTURE • PLANNING • INTERIORS

SKA CONSULTING ENGINEERS

City of Winston-Salem
FIRE STATION 3
WINSTON-SALEM • NORTH CAROLINA

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COMM. 1664
DATE 02/12/2021

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