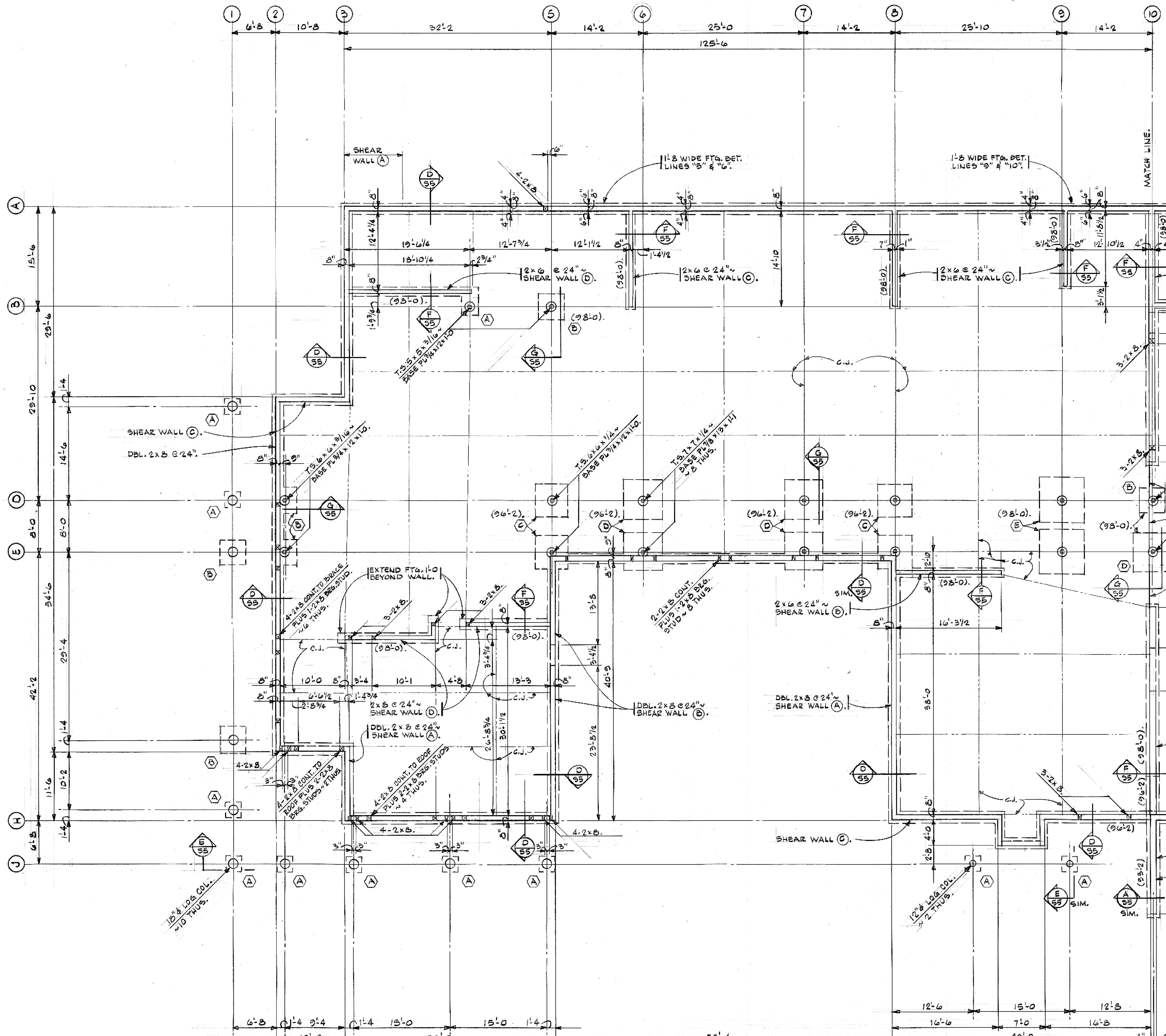
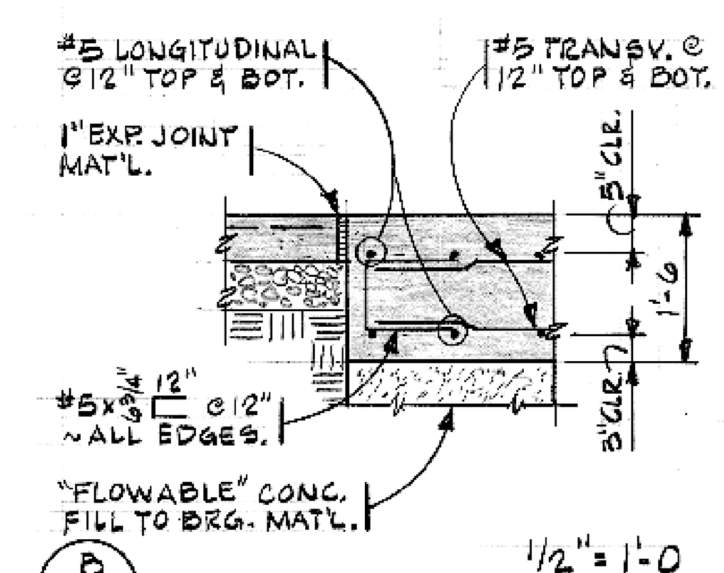


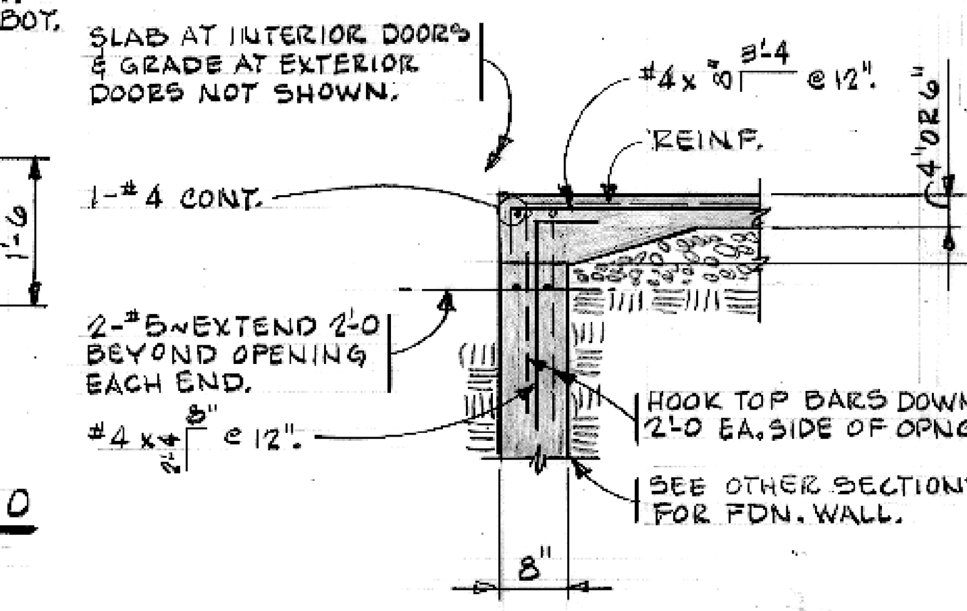
FOUNDATION & FLOOR PLAN AT OFFICE

1/8" = 1'-0

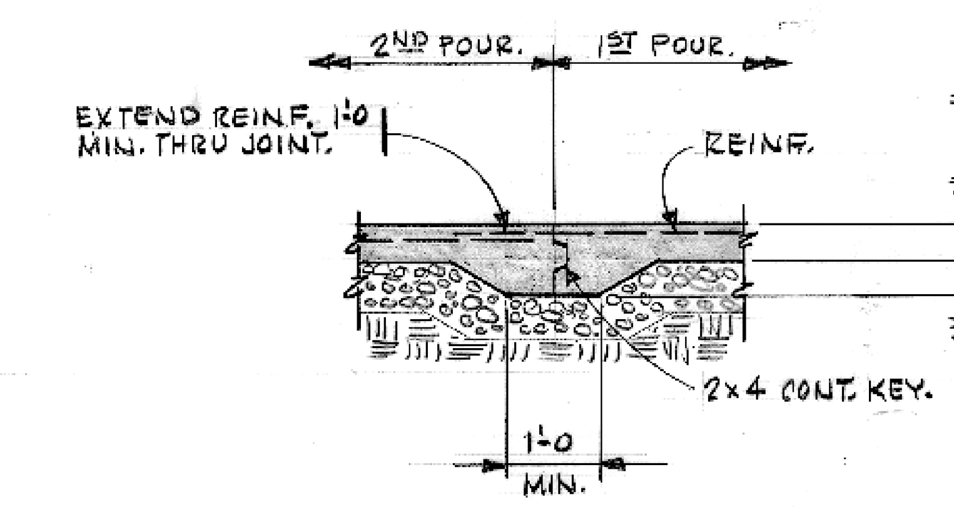
1. FLOOR SHALL BE 4" CONCRETE SLAB REINF. WITH 6x6-W1.4xW1.4 W.W.F. TOP OVER 6" GRAVEL. TOP EL. = 100'-0.
2. TOP OF FOOTING EL. = 96'-2 UNLESS NOTED ON PLAN THUS: (---).
3. TOP OF CONCRETE EL. = 100'-0 UNLESS NOTED ON PLAN THUS: T.O.C. = ---. AT DOORS T.O.C. = 99'-4 TYPICAL.
4. ⬡ DENOTES FOOTING MARK. SEE SCHEDULE THIS SHEET. CONTINUOUS FOOTINGS SHALL BE 1'-4 W. x 10" T. UNLESS NOTED.
5. ◯ DENOTES SHEAR WALL MARK. SEE SCHEDULE THIS SHEET FOR ANCH. BOLTS, HOLDOWNS, ETC.
6. WALLS SHALL BE 2x8 STUDS @ 24" UNLESS NOTED. ALIGN STUDS WITH TRUSS SPACING. PROVIDE DBL. 2x_ STUDS UNDER DBL. & GIRDER TRUSSES.
7. TYPICAL HEADER SHALL BE 3-1 3/4"x9 1/2" M=L WITH 2-2x_ BEARING STUDS EACH END UNLESS NOTED. SEE ARCH. FOR HEADER EL.
8. SEE SCHEDULE THIS SHEET FOR HEADERS IN NON-LOAD BEARING PARTITION WALLS.



B / S1 PRESS FOUNDATION SLAB. 1/2" = 1'-0

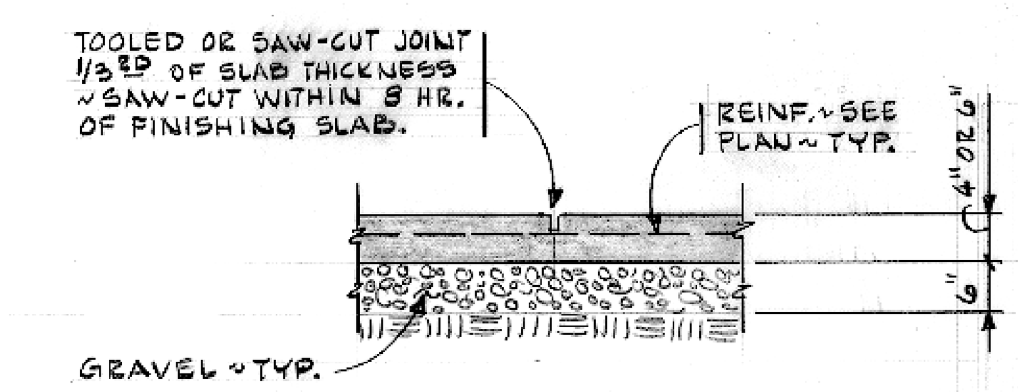


DOOR SILL



CONSTRUCTION JOINT

NOTE: POUR SLAB IN AS LARGE AN AREA AS PRACTICAL FOR FINISHING. PROVIDE CONSTRUCTION JOINTS BETWEEN ADJACENT POURS. PROVIDE CONTROL JOINTS APPROXIMATELY 12'-0 ON CENTER AND ELSEWHERE AS NOTED ON PLAN BY "C.J.".



CONTROL JOINT

A / S1 SLAB ON GRADE DETAILS. 1/2" = 1'-0

SHEAR WALL SCHEDULE

MARK	DESCRIPTION
(A)	1/2" SHEATHING NAILED WITH 8d @ 6" & 12". 5/8"φ ANCH. BOLTS @ 4'-0 IN FDN. WALL. "HD8A" HOLDOWN WITH 2-2x_ VERTICAL & 7/8"φ x 1'-4 L.G. BOLT.
(B)	1/2" SHEATHING NAILED WITH 8d @ 4" & 12". 5/8"φ ANCH. BOLTS @ 4'-0 IN FDN. WALL. "HD10A" HOLDOWN WITH 2-2x_ VERTICAL & 7/8"φ x 1'-4 L.G. BOLT.
(C)	1/2" SHEATHING NAILED WITH 8d @ 3" & 12". 5/8"φ ANCH. BOLTS @ 3'-0 IN FDN. WALL. "HD14A" HOLDOWN WITH 4x_ VERTICAL & 1"φ x 1'-8 L.G. BOLT.
(D)	1/2" SHEATHING EACH SIDE NAILED WITH 8d @ 4" & 12". STAGGER PANEL JOINTS EACH SIDE OF WALL. 5/8"φ ANCH. BOLTS @ 2'-0 IN FDN. WALL. "HD15" HOLDOWN WITH 6x_ VERTICAL & 1"φ x 1'-8 L.G. BOLT.
( )	

1. SEE GENERAL NOTE 3.G. ON SHEET S2 FOR OTHER REQUIREMENTS & NAILING NOTE.
2. PROVIDE HOLDOWN AT EACH END OF WALL. VERTICAL WIDTH TO BE SAME SIZE AS STUD WIDTH.
3. ALL EXTERIOR WALLS NOT OTHERWISE NOTED ARE TO BE SAME AS (A) WITHOUT HOLDOWNS.
4. ALL SHEAR WALLS SHALL EXTEND THRU TRUSSES TO ROOF.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
(A)	2'-8 x 2'-8 x 1'-0	3 - #4 E.W. BOT.
(B)	4'-0 x 4'-0 x 1'-0	5 - #4 E.W. BOT.
(C)	5'-4 x 5'-4 x 1'-0	6 - #5 E.W. BOT.
(D)	6'-0 x 6'-0 x 1'-2	7 - #5 E.W. BOT.
(E)	7'-0 x 7'-0 x 1'-4	8 - #5 E.W. BOT.
(F)	7'-8 x 7'-8 x 1'-4	11 - #5 E.W. BOT.
⬡		
⬡		
⬡		
⬡		

1. CENTER FOOTINGS ON ℄ COLUMNS UNLESS NOTED.
2. SEE SECTIONS FOR DOWELS, ANCH. BOLTS, ETC.
3. ANCHOR BOLTS MUST BE SET ACCURATELY USING TEMPLATES BEFORE CONCRETE IS PLACED.

PARTITION HEADERS

SIZE	SPAN
3 - 2x6	8'-0 OR LESS
3 - 2x8	OVER 8'-0 THRU 10'-0
3 - 2x10	OVER 10'-0 THRU 13'-0
3 - 2x12	OVER 13'-0 THRU 16'-0

1. ASSUMED LOADING INCLUDES 8'-0 OF CEILING AT 20 PSF PLUS 5'-0 OF WALL AT 10 PSF.
2. SEE ARCH. FOR OPENING SIZES.
3. CONTACT ENGINEER IF LOADING IS EXCEEDED.

THESE DRAWINGS DO NOT INCLUDE THE COMPONENTS NECESSARY FOR CONSTRUCTION SAFETY.

LYKKEN and KRAMER
Consulting Structural Engineers
143 Fourth Street P.O. Box 4229
Steamboat Springs, Colorado 80477

BLEVINS HARDING GROUP
2060 Broadway
Suite One
Boulder, CO. 80302

William J. Rangitsch
970.879.0819
box 772910 24 5th st
steamboat springs co 80477

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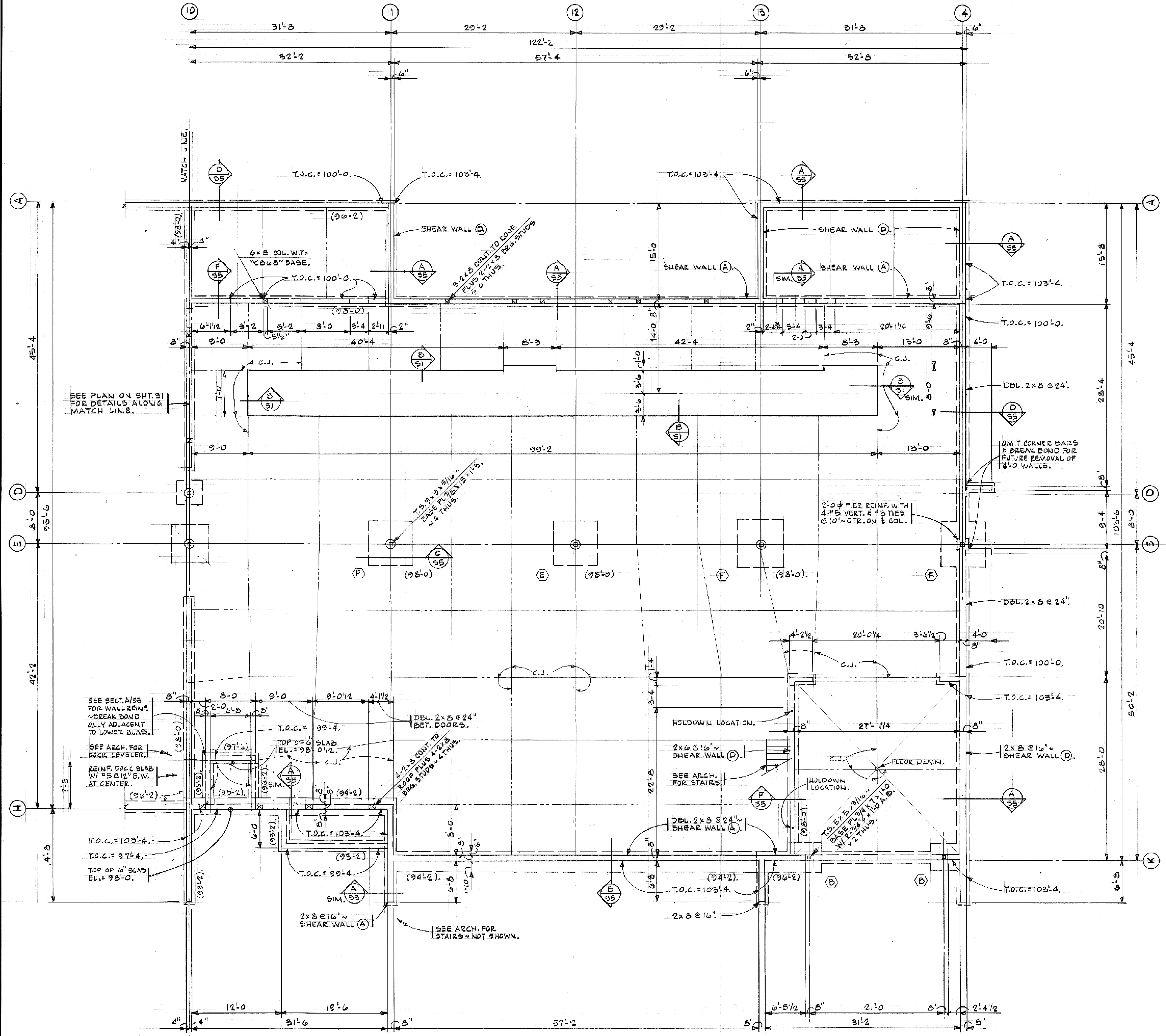

FOUNDATION & FLOOR AT PRODUCTION

1/8" = 1'-0

1. FLOOR SHALL BE 6" CONCRETE SLAB REINF. WITH #4 @ 18" EACH WAY AT TOP OVER 6" GRAVEL. TOP EL= 100'-0.
2. SEE NOTES UNDER PLAN ON SHEET S1.
3. PRESS FOUNDATION SHALL BE 18" CONCRETE SLAB REINF. WITH #5 @ 12" E.W. TOP & BOT. OVER FLOWABLE FILL. TOP EL.= 100'-0. SEE SECT. B/S1.

GENERAL NOTES

1. LIVE LOADS USED IN DESIGN:
   - A. Roof .... 75 psf.
   - B. Wind .... U.B.C. 80 mph - Exposure B.
   - C. Mezzanine/Storage floor ....125 psf.
2. FOUNDATIONS:
   - A. Soil data was taken from recommendations set forth in the report on Job #95-2241 by NorthWest Colorado Consultants, dated June 27, 1995.
   - B. Soil bearing pressure used in design .... 3000 psf.
   - C. Lateral soil pressure (equivalent fluid pressure) ... 45 pcf.
3. CONCRETE:
   - A. All concrete shall be made with a minimum of 5 sacks of cement per cubic yard, and shall develop 3000 psi compressive strength in 28 days, unless otherwise noted. Concrete for slabs shall have a minimum cement factor of 5 1/2 sacks per cubic yard of concrete. Exposed concrete shall have 5% ± entrapped air content, and shall be placed with 4" maximum slump.
   - B. Concrete shall not be placed on frozen, muddy, or saturated soil and shall be protected from freezing for 7 days.
   - C. Slabs and walls shall not have joints in a horizontal plane. Any stop in concrete work shall be made with vertical bulkheads, keys and dowels, unless otherwise shown. Construction joints shall be as detailed, or as approved by the Engineer.
   - D. Anchor bolts and/or expansion anchors for sill plates shall extend the distance required to bolt wood members shown without countersinking. Expansion anchors shall be "Wej-It", Hilti "Kwik Bolt", or an approved equal.
4. REINFORCING STEEL:
   - A. All reinforcing bars shall be ASTM A615-Grade 60, except column ties, which shall be ASTM A615-Grade 40. Welded wire fabric (W.W.F.) shall be ASTM A185.
   - B. Concrete protection for reinforcement (unless otherwise noted):
     1. Concrete poured against earth .... 3".
     2. Concrete poured in forms & exposed to weather or earth . 1 1/2".
   - C. Lap splices shall be a minimum of 36 bar diameters. Wire bars securely together at splices and intersections. No welding to reinforcing bars will be permitted. Welded wire fabric shall lap one full mesh, but not less than 6", and shall be wired together.
   - D. Provide corner bars of equal size and spacing as horizontal bars.
   - E. Provide all additional reinforcing and other accessories necessary to support main reinforcing at the positions indicated.
   - F. Detail and fabricate bars in accordance with the latest edition of the ACI Detailing Manual and ACI Building Code Requirements....
   - G. Place 1-#4 bar, each face, with 2'-0" projection, around all openings.
5. TIMBER:
   - A. Wood for structural framing shall be visually stress-graded "No. 2", dried, Douglas Fir/Larch; conforming to "National Design Specification for Wood Construction ..." by the National Forest Products Assoc.
   - B. All laminated members shall be fabricated using West Coast Douglas Fir, Western Larch, or Southern Pine; using waterproof glue and 2" nominal lumber in a "24F-V4" stress combination.
     1. Detail and fabricate members according to AITC specifications.
     2. Laminated member sizes are the finished member size. See the Specifications for finish, appearance grade, and wrapping.
   - C. All "MICRO=LAM" members are denoted "M=L" on the drawings and shall be standard sizes as fabricated by the Trus-Joist Corporation. Other laminated veneer lumber members of equal size and strength may be substituted for "MICRO=LAM" members.
   - D. All log members shall be Spruce-Pine-Fir visually stress-graded "No. 2" by a member of Timber Products Inspection.
   - E. Manufactured floor and roof joists:
     1. Fabricated members called for on the Drawings shall be used to set the size and capacity desired. Similar members by other manufacturers may substituted, provided that the proposed substitution has equal load capacity and ICBO approval.
     2. Shop fabricated joists shall be "I" type members fabricated from solid wood or laminated chords and plywood webs. Blocking and bridging shall be identical to requirements for conventional framing, according to the UBC.
   - F. "House" roof trusses shall be fabricated from 2x_ wood members and metal connectors to the sizes and slopes shown on the Drawings.
     1. Design calculations, truss layout, and shop drawings shall be submitted and approved prior to fabrication. Ceiling live load of 10 psf shall be applied to bottom chords. Stress increase will not be allowed for roof live loads of 75 psf and greater.
     2. Member layout and sizes shall be at the discretion of the truss designer, except that no member shall be less than 2x4 and the minimum chord sizes shown shall be met.
     3. Blocking and bracing shall be installed according to the approved design, and as detailed on the Drawings.
     4. Truss design shall employ materials which will accommodate the bearing length provided on beams, walls, or connectors, without requiring field modification.
   - G. Roof, floor and wall sheathing shall be DFPA Grade-Trademarked "C-D Exterior" and shall conform to A.P.A. standards.
     1. Roof and floor panels shall be placed with the 8'-0" dimension perpendicular to framing, with end joints staggered. Floor panels shall be tongue and grooved, and shall be glued and nailed to supports. All roof panels joints shall be blocked and "edge" nailed.
     2. Wall panels may be placed either vertically or horizontally, with all horizontal joints blocked and "edge" nailed.
     3. Explanation of nailing note: (5/8" plywood with 8d @ 6" & 12") means 5/8" sheathing shall be nailed with 8 penny nails spaced at 6" along edges and 12" along intermediate members.
     4. Spacing called out is for common or galvanized box nail size.
     5. ROOFS: 5/8" plywood with 10d @ 4" & 12".
FLOORS: 3/4" plywood with 10d ring shank @ 6" & 10".
WALLS: 1/2" plywood with 8d @ 6" & 12". See Shear Wall Sched.
   - H. Fasten all framing with common nails according to the UBC nailing schedule, unless otherwise noted or detailed.
   - I. Timber connectors called for on the drawings are as manufactured by the Simpson Company. Other connectors may be used if the UBC approved load capacity is equal to the connector specified.
   - J. Provide 2x_ solid blocking between joists at supports and cross-bridging or blocking not over 8'-0" on center for all joists and rafters.
   - K. Multiple studs called for on the drawings may bear on the wall plate. Headers and/or beams shall bear fully on all studs called for; cripple studs are additional. If sill plates on concrete are not Doug-Fir, provide another Doug-Fir plate on sill plate.
6. METALS:
   - A. All structural steel shapes and plates shall conform to ASTM A36. All tube shapes shall conform to ASTM A500, Grade B. All standard bolts and anchor bolts shall conform to ASTM A307. All welding shall be done using E70 electrodes.
   - B. Structural steel shall be detailed, fabricated and erected according to the latest provisions of the AISC Manual of Steel Construction.
   - C. See Architectural drawings for nailer holes, & other requirements.
   - D. For connections not detailed or noted, use standard framed beam connections with 3/4" diameter bolts (or welded equivalent) to support one half of the total uniform load capacity of the member supported.
   - E. Provide all necessary temporary bracing to hold steel framing in position until properly connected to adjacent framing or until the frame is otherwise self supporting.
   - F. No special field inspections for welding is required, as long as welding is done in a steel fabricators' shop by certified welders.
7. Architect's/Engineer's approval must be secured for all substitutions.
8. All dimensions on structural drawings shall be checked with Architect's.
9. Explanation of section designation used: (Note reference, "SECT. B/S5")

SECTION MARK. → B

SHEET NUMBER ON WHICH SECTION IS DRAWN. → S5

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LYKKEN and KRAMER
Consulting Structural Engineers
143 Fourth Street P.O. Box 4229
Steamboat Springs, Colorado 80477

BLEVINS HARDING GROUP
2060 Broadway
Suite One
Boulder, CO, 80302

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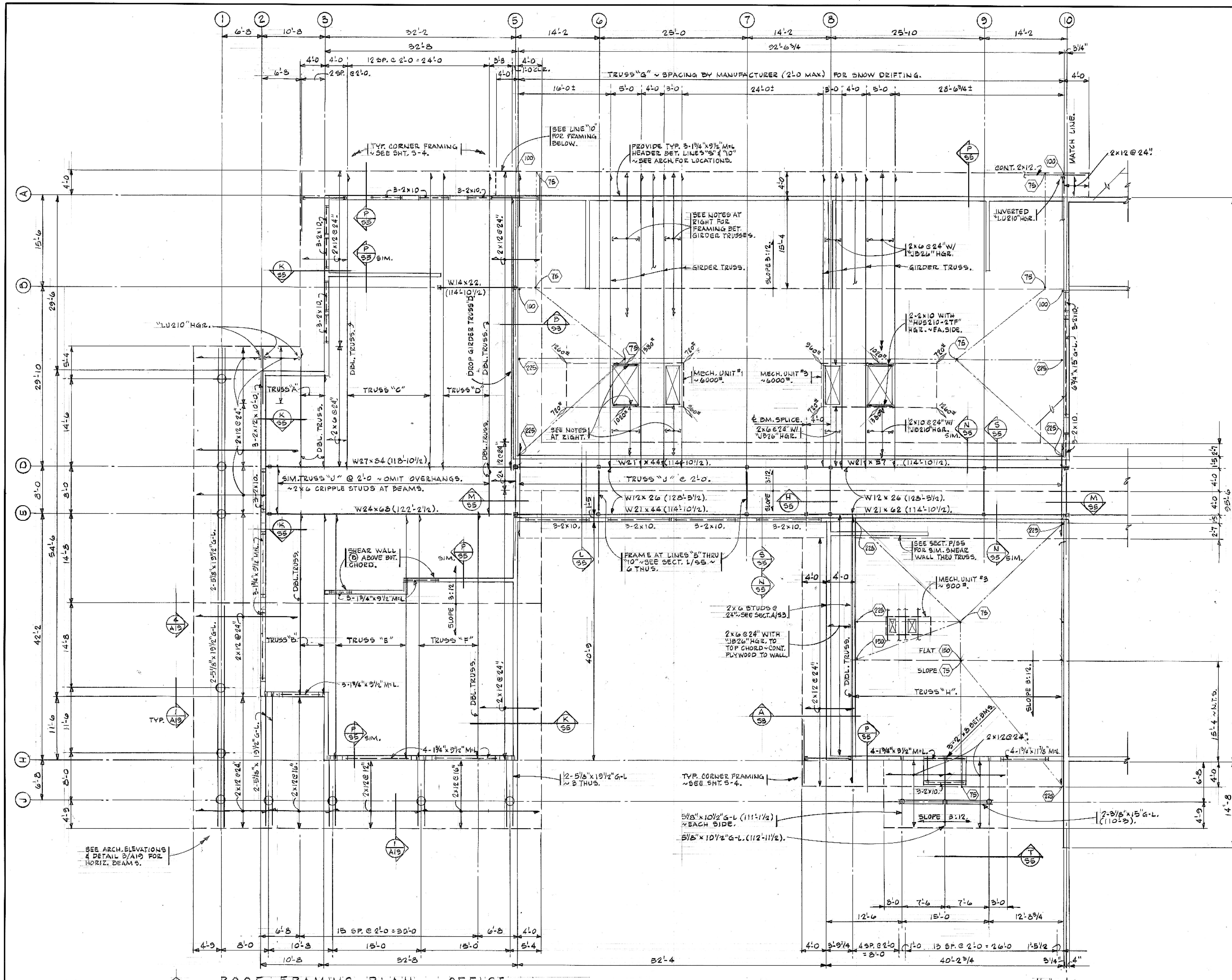
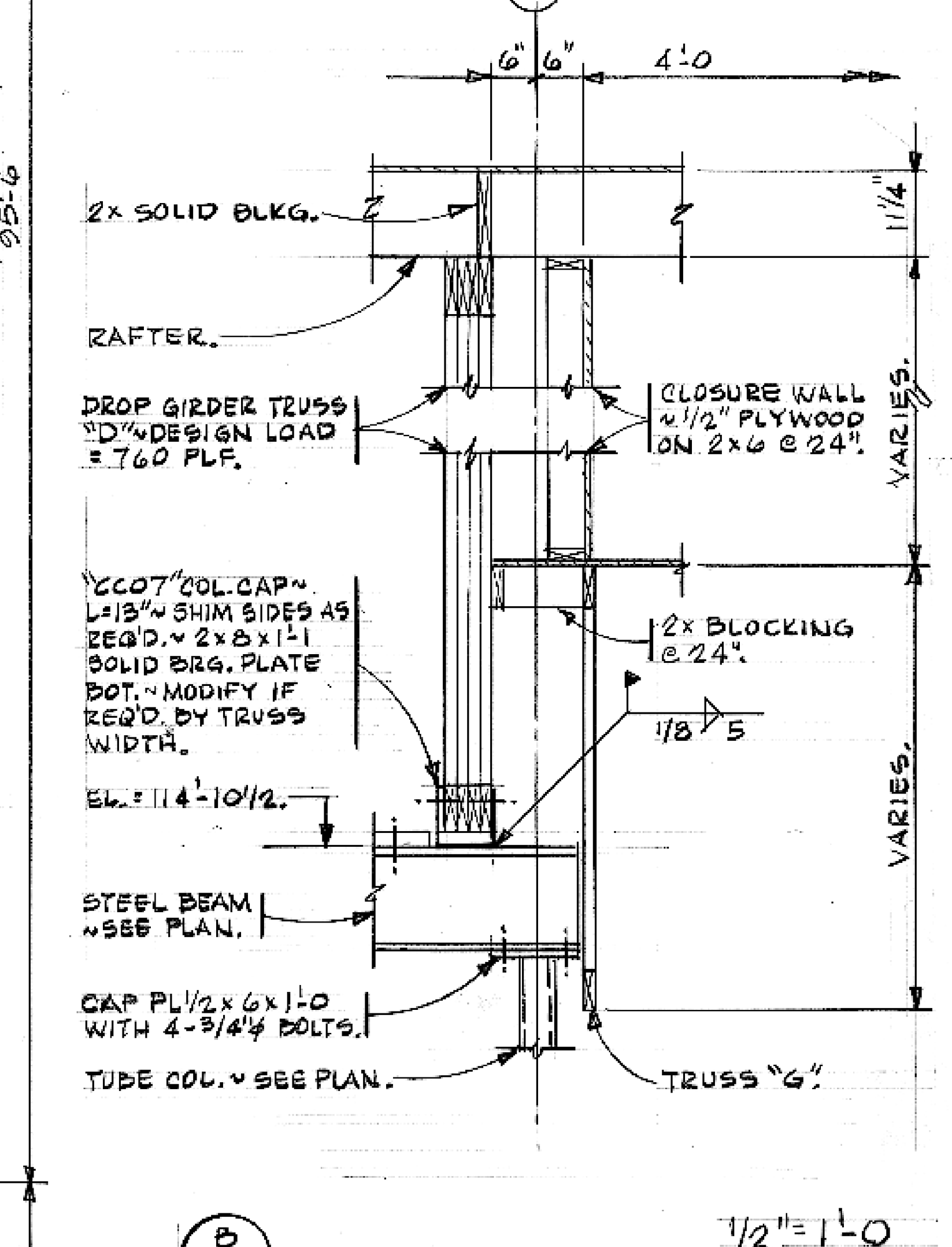


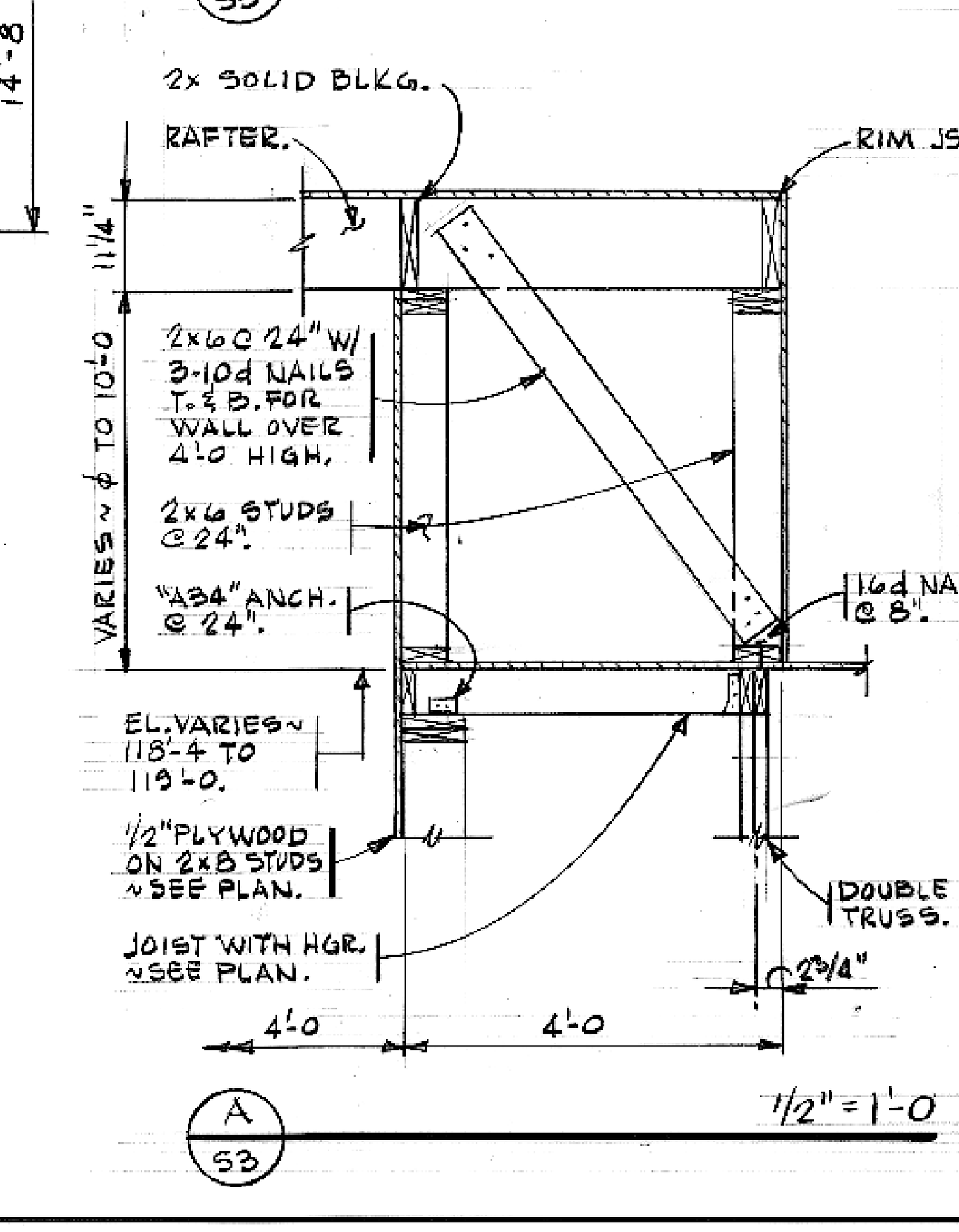
ROOF FRAMING PLAN AT OFFICE

1/8" = 1'-0

1. ROOF SHALL BE 5/8" PLYWOOD (40/20 RATING) ON RAFTERS OR TRUSSES AS SHOWN. FOR AREAS WITH SNOW LOAD OVER 130 PSF AND 24" SPAN, PLYWOOD SHALL BE 3/4" (48/24 RATING).
2. TOP OF BEAM EL. IS NOTED ON PLAN THUS: (---).
3. SEE TRUSS DIAGRAMS ON SHEET S4 FOR TRUSS BEARING ELEVATIONS.
4. ◯ DENOTES SNOW LIVE LOAD IN P.S.F. DUE TO DRIFTING TO BE USED IN TRUSS DESIGN. ASSUME STRAIGHT LINE VARIATION BETWEEN POINTS.
5. <> DENOTES MECH. UNIT LOAD LOCATION WITH WEIGHT IN LBS. SHOWN. VERIFY LOAD & OPENING LOCATIONS WITH MECH.



B / S3 — 1/2" = 1'-0



A / S3 — 1/2" = 1'-0

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Boulder, CO. 80302

William J. Rangitsch

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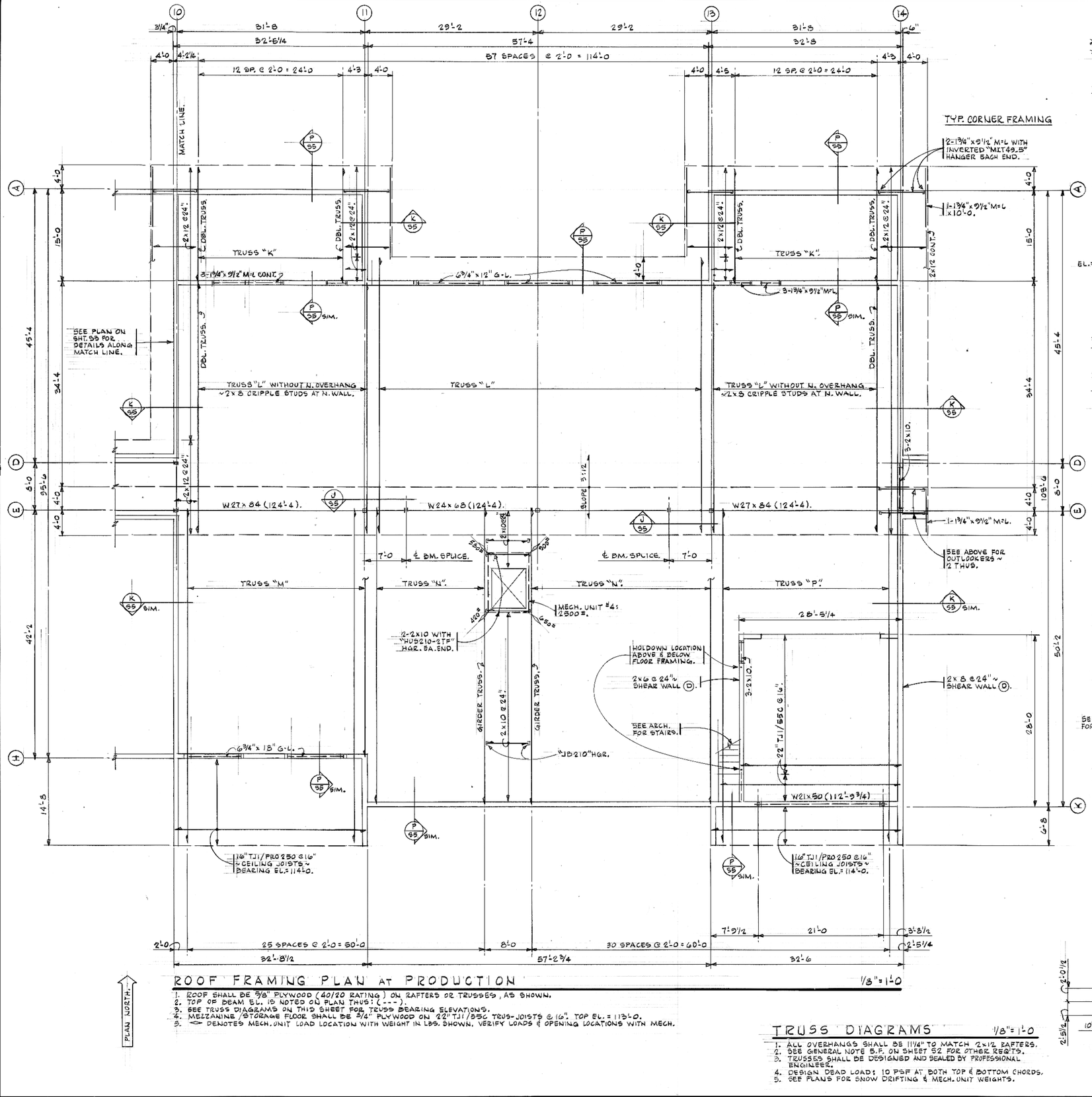


ROOF FRAMING PLAN at PRODUCTION

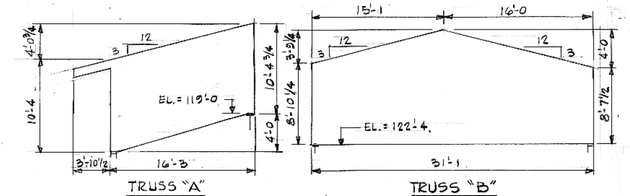
1/8" = 1'-0

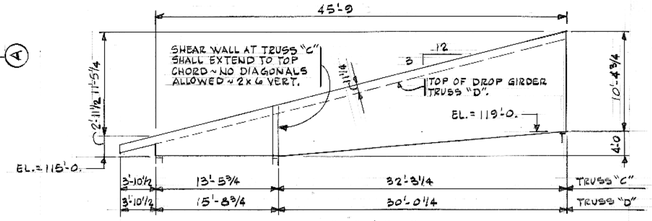
1. ROOF SHALL BE 5/8" PLYWOOD (40/20 RATING) ON RAFTERS OR TRUSSES, AS SHOWN.
2. TOP OF BEAM EL. IS NOTED ON PLAN THUS: (---).
3. SEE TRUSS DIAGRAMS ON THIS SHEET FOR TRUSS BEARING ELEVATIONS.
4. MEZZANINE / STORAGE FLOOR SHALL BE 3/4" PLYWOOD ON 22" TJI / 55C TRUS-JOISTS @ 16". TOP EL. = 113'-0.
5. <> DENOTES MECH. UNIT LOAD LOCATION WITH WEIGHT IN LBS. SHOWN. VERIFY LOADS & OPENING LOCATIONS WITH MECH.

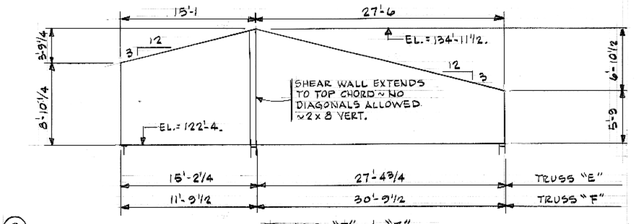
TRUSS DIAGRAMS

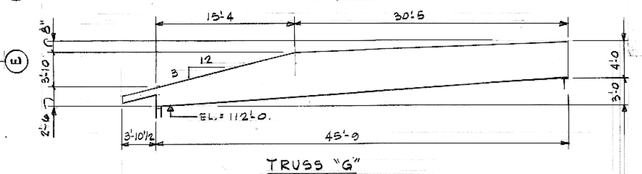
1/8" = 1'-0

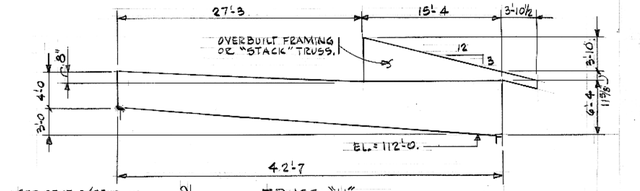
1. ALL OVERHANGS SHALL BE 11 1/4" TO MATCH 2x12 RAFTERS.
2. SEE GENERAL NOTE 5.F. ON SHEET S2 FOR OTHER REQ'TS.
3. TRUSSES SHALL BE DESIGNED AND SEALED BY PROFESSIONAL ENGINEER.
4. DESIGN DEAD LOAD: 10 PSF AT BOTH TOP & BOTTOM CHORDS.
5. SEE PLANS FOR SNOW DRIFTING & MECH. UNIT WEIGHTS.

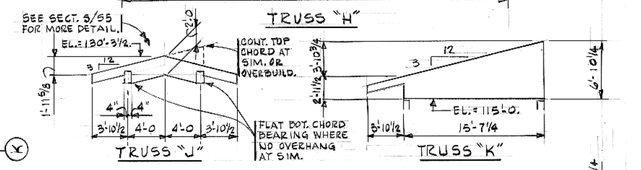


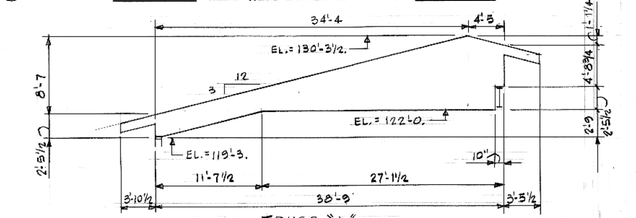


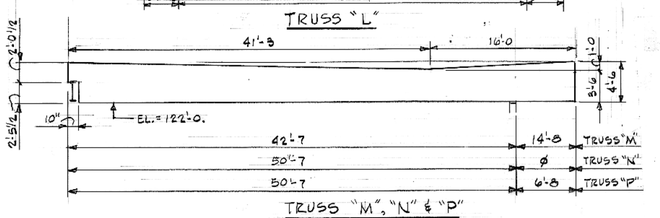












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143 Fourth Street P.O. Box 4229
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BLEVINS HARDING GROUP
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Suite One
Boulder, CO. 80302

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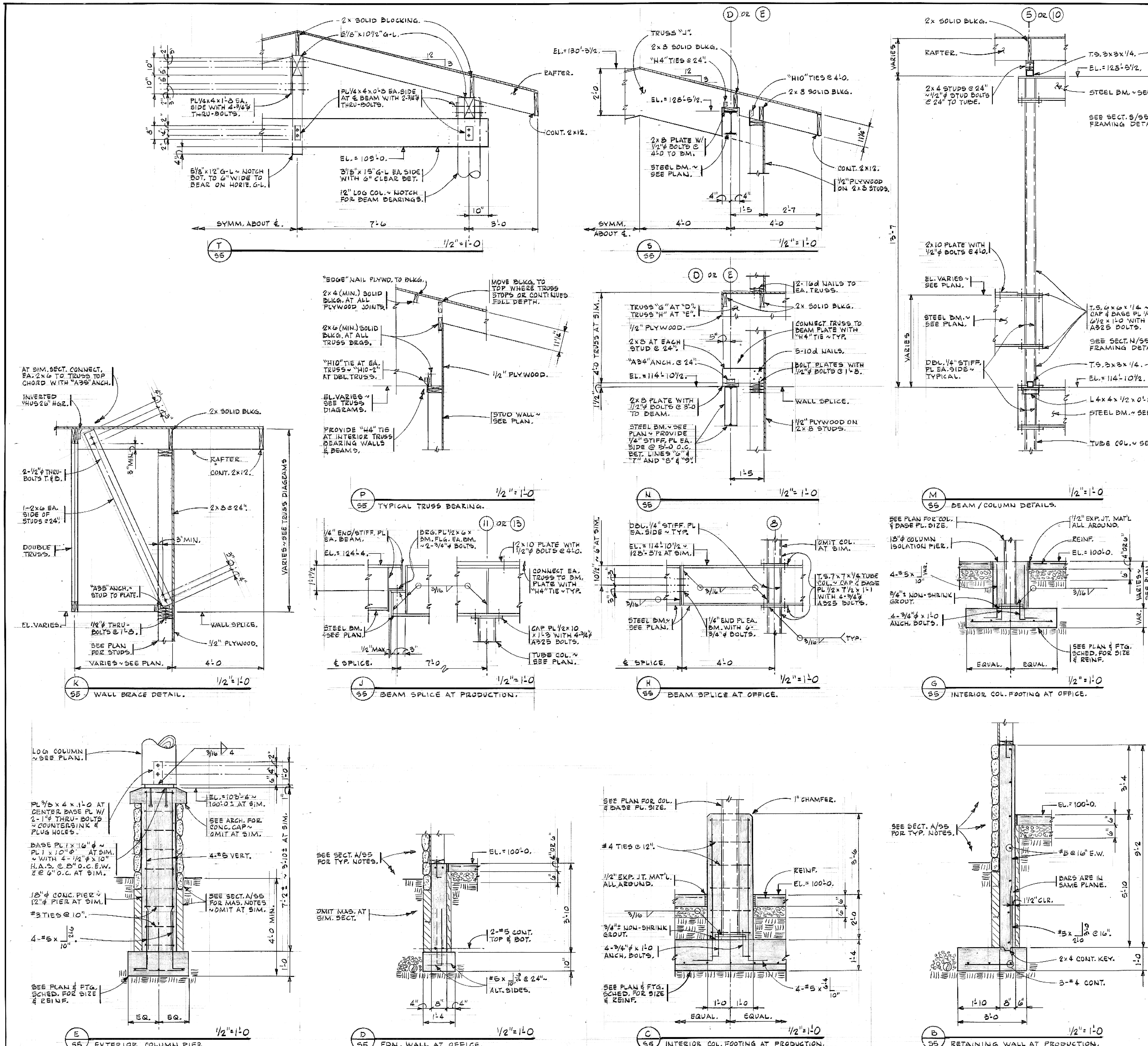

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2060 Broadway
Suite One
Boulder, CO. 80302

William J. Rangitsch
9708

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