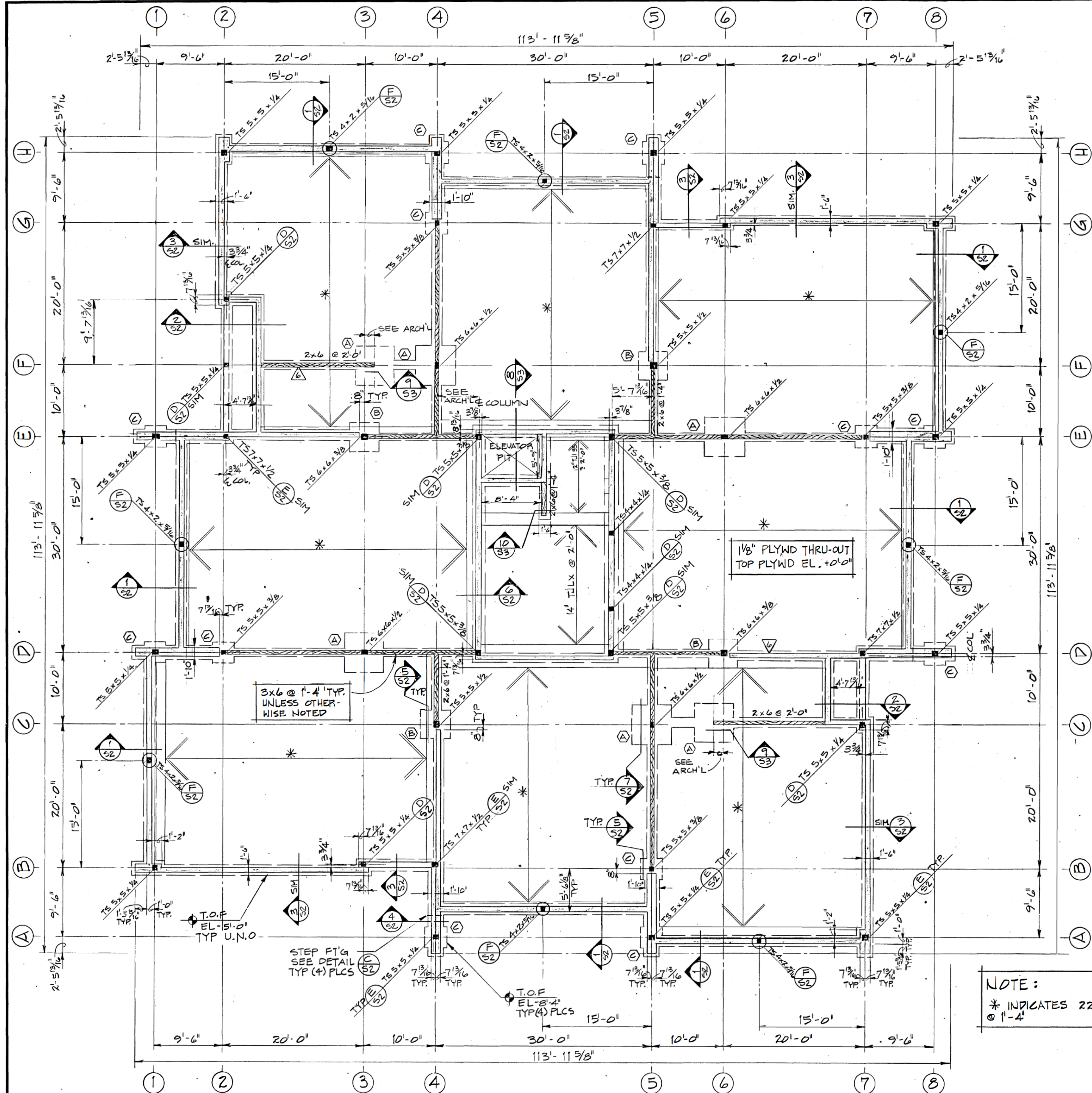


STRUCTURAL NOTES

- Design Criteria:  
Roof L.L. 40 P.S.F. Soil Pressure 3500 P.S.F.  
Floor L.L. 50 P.S.F. Seismic Zone 4  
Wind 100 M.P.H.
- Soils Data: Compact under all footings to 95 percent of the maximum density as obtained by ASTM Test Procedure D-1557 Method D as per soils report by A. W. Murfitt Company, dated April 1984.
- Concrete shall have a minimum compression strength of 3,000 psi at 28 days, measured, mixed, and placed in accordance with ACI Std. 304. Slump shall be 3 inches minimum, 6 inches maximum.
- Reinforcing steel shall conform to ASTM A-615-80, Grade 40. All reinforcing steel shall be detailed, fabricated, and placed in accordance with ACI 318-77 and ACI 315-47. All splices in concrete shall be lapped 24 bar diameters minimum. All splices in masonry shall be lapped 30 bar diameters minimum. Welded Wire Fabric shall conform to ASTM A-185-79.
- Masonry materials shall conform to the following ASTM Standards: Concrete Masonry Units, ASTM C-90, Grade N-1, f'm=1,500 psi; Mortar, ASTM C-476; Grout, ASTM C-476, slump 8" to 11", provide nonshrink-type admixture, i.e. Grout Aid, and mechanical vibration for consolidation. All cells containing reinforcing steel, inserts, anchor bolts, etc., shall be grouted full. Provide bond beams with reinforcing steel at locations shown in details. Provide wire mesh in joint below bond beams. Provide 2-#5 bars at sides of openings, wall ends, and at corners. Masonry located below grade shall be grouted full. Special inspection required by an engineer registered in the state of Alaska before grouting.
- Structural grade lumber shall comply with the National Lumber Manufacturers Association "National Specifications for Stress Grade Lumber." Lumber shall be Hem-fir, f<sub>b</sub> = 1,000 psi or better grade member. All-weather Wood-47 (AWW) shall be pressure-treated in accordance with the American Wood Preservers Bureau Standard AWPB-FDN-80. Lumber and plywood shall have a moisture content not exceeding 19%. Direct contact of AWW with structural steel shall be avoided. Provide a waterproof barrier between the AWW and any structural steel items.
- Plywood panels shall be stamped with the "APA Grade" trademark of the American Plywood Association and shall meet U.S. Product Standard P.S. 1-74. All plywood shall have exterior glue.  
  
Roof sheathing shall be APA 5/8" CDX. Panel Identification Index 30/12. Install with face-grain perpendicular to supports. Stagger end-panel joints. All panel edges are to be supported on 2-inch lumber blocking or an equivalent system. Nail at 6" c-c all supported panel edges, and at 10" c-c at intermediate supports. All nails shall be 10d common nails.  
  
First floor sheathing shall be 1-1/8" 2-4-1. Second floor and Mechanical floor sheathing shall be 3/4" CDX. Panel Identification Index 42/20. Install with face-grain perpendicular to supports. Stagger end-panel joints. Nail at 6" c-c all supported panel edges, and 10" c-c at intermediate supports. All nails shall be 10d common nails. All panels shall be glued to supports with an adhesive which conforms to American Plywood Association Specification AFG-01.  
  
Wall sheathing shall be APA 1/2" CDX. Panel Identification Index 24/0. All panel edges to be supported on 2 inch nominal framing. Nail as per shear wall schedule.
- Glued Laminated Timbers shall comply with the American Institute of Timber Construction Standard 103-72, "Standard Specification for Structural Glued Laminated Timber." Combinations shall be f<sub>b</sub> = 2,200 psi, E = 1,700,000 psi. Shipping protection shall conform to AITC Standard 111-65. Camber shall be as indicated on plans.
- Structural steel shall be detailed, fabricated, and erected in accordance with the American Institute of Steel Construction "AISC Manual," 8th Edition. Structural steel, including "M" and "C" shapes and miscellaneous plates and angles, shall conform to ASTM A-36. Structural steel tubing shall conform to ASTM A-500, F<sub>y</sub> = 46 ksi. Bolts shall be 3/4 inch diameter, ASTM A-325N. All anchor bolts shall be A307 hot dipped galvanized. All welds are to be 3/16-inch fillet minimum, by AWS-certified welders using electrodes conforming to ASTM A-233, Class E 70. Apply one coat of primer paint complying with FSTT P-615, Type II to all metal work except those portions to be embedded in concrete or masonry, or to be field-welded. Provide shop drawings with details for approval.
- Trus Joists shall be of the size, type, and spacing indicated on the drawings. Provide shop drawings with details for approval. Provide bridging as per Trus Joist. Live load deflection on all floor trusses shall not exceed L/600.



SEE DETAIL L/S2 FOR CRAWL SPACE VENTS (REFERENCE ARCH'L DRAWINGS FOR LOCATION)

NOTE:  
\* INDICATES 22' TLX @ 1'-4"

FOOTING SCHEDULE		
TYPE	SIZE	REINF.
(A)	5'-6" x 5'-6" x 1'-3"	(B) #5 EA WAY
(B)	4'-0" x 4'-0" x 1'-0"	(6) #5 EA WAY
(C)	3'-0" x 3'-0" x 1'-0"	(5) #5 EA WAY

LOCATE REINFORCING STEEL 3" CLR FROM BOTTOM OF FOOTING AND 3" CLR FROM EDGES OF FOOTING

SHEARWALL SCHEDULE *					
MARK	FINISH	NAILING		BOTTOM PLATE** ATTACHMENT BOLTS	REMARKS
		PANEL EDGES	INTERM. SUPPORT		
1	1/2" PLY-WD BOTH SIDES	10d @ 2' O.C. STAGGERED	10d @ 12' O.C.	3/4" @ 28" O.C.	DEL 2x BOT PL
2	1/2" PLY-WD BOTH SIDES	10d @ 2' O.C. STAGGERED		3/4" @ 28" O.C.	DEL 2x BOT PL
3	1/2" PLY-WD ONE SIDE	10d @ 2' O.C. STAGGERED		3/4" @ 21'-4" O.C.	DEL 2x BOT PL
4	1/2" PLY-WD BOTH SIDES	10d @ 4' O.C.		3/4" @ 21'-0" O.C.	
5	1/2" PLY-WD ONE SIDE	10d @ 4' O.C.		3/4" @ 21'-4" O.C.	
6	1/2" PLY-WD ONE SIDE	10d @ 6' O.C.		3/4" @ 22'-0" O.C.	

\*\* SEE FOUNDATION DETAILS FOR ANCHOR BOLT SIZE & SPACING \* BLOCK ALL PLYWOOD PANEL EDGES.

FIRST FLOOR FRAMING & FOUNDATION PLAN  
SCALE: 1/8" = 1'-0"

NO. 8462	DATE 6-29-81	SCALE AS SHOWN	DESIGNED BY JENSEN	DRAWN BY BROWN	CHECKED BY JENSEN	PROJECT TITLE	REVISIONS	SHEET TITLE	SHEET NO.	
TRA/Farr						STATE OF ALASKA 49th Professional Engineer CE 5679		FIRST FLOOR FRAMING & FOUNDATION PLAN		S-1
NING						NO. DATE BY DESCRIPTION		OF SHEETS		IN THIS CATEGORY
						1 6/1/84 D.D. ADD SHEARWALL SCHEDULE				
						2 6/29/81 H.J. GENERAL REVISION				