

**FOUNDATION & FLOOR FRAMING PLAN**

THESE "AS-BUILT" DRAWINGS WERE COMPILED BY THE ARCHITECT/ENGINEER (A/E) BASED ON INFORMATION SUPPLIED BY THE CONTRACTOR. NO WARRANTY IS MADE OR IMPLIED BY THE A/E AS TO ACCURACY OR COMPLETENESS.

**STRUCTURAL GENERAL NOTES**

**DESIGN**  
 DESIGN IS, AND CONSTRUCTION SHALL BE, IN CONFORMANCE WITH THE UNIFORM BUILDING CODE (UBC) 1995 EDITION, AND THESE PLANS AND SPECIFICATIONS.

**DESIGN LIVE LOADS:**  
 FLOOR (SUDO) 50 PSF  
 CEILING 10 PSF  
 OTHER FLOORS 40 PSF

**DESIGN WIND LOADS:**  
 WIND (LESS THAN 20 FEET) 20 PSF  
 SEISMIC ZONE 3, UBC 1995

**MATERIALS:**  
 WOOD FLAME RESISTANCE, CHANNELS, PLATES, BOLTS DESIGN A56  
 MISCELLANEOUS METALS DESIGN A56  
 ANCHOR BOLTS TO MASONRY OR CONCRETE DESIGN A307  
 BOLTS FOR STRUCTURAL STEEL (A4-70) DESIGN A508  
 WELDING ELECTRODES E70XX

**FOUNDATION:**  
 FOUNDATION DESIGN IS BASED ON ASSUMED SOIL PRESSURE = 2000 PSF. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR STRUCTURAL BRACKILL OVERLIED WITH 6" MINIMUM COMPACTED GRANULAR FILL.

**REVISIONS:**

**MASONRY:**  
 MATERIALS AND CONSTRUCTION SHALL MEET REQUIREMENTS OF CHAPTER 24, UNIFORM BUILDING CODE, 1995 EDITION, FOR REINFORCED MASONRY UNIT MASONRY. MASONRY CONCRETE UNITS SHALL BE GRADE MCM-150 (1500 psi). REINFORCING SHALL BE TYPE #4 (1/2" DIA - 2500 psi). GRADE SHALL BE PROPORTIONED IN ACCORDANCE WITH UBC SECTION 2405.4 (1" = 2000 psi). ALL REINFORCING CELLS SHALL BE FILLED SOLE WITH GROUT. ALL UNITS SHALL BE Laid IN RUNNING BOND.

**CONCRETE:**  
 MIXING AND PLACING OF ALL CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE UNIFORM BUILDING CODE, 1995 EDITION. ALL CONCRETE, INCLUDING SLABS ON GROUND, SHALL BE CAST "PLACEMENT" OR BROADCAST "FINISH" WITH "LITHIUM" ADDED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. ALL CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN ADMIXTURE TO PRODUCE A 1 TO 6 PERCENT ENHANCED AIR. MAXIMUM SIZE OF AGGREGATE SHALL NOT BE MORE THAN 3/4 OF THE CLEAR DISTANCE BETWEEN REINFORCING BARS OR BETWEEN BARS AND SIDE FORMS. UNDESIRABLE AIR AND OILY CONTENT SHALL BE AS FOLLOWS FOR VARIOUS CONCRETE STRENGTHS (psi) BASED ON STANDARD 7 OR 28 DAY CYLINDER TESTS:

| MIN. SLABS OF CONCRETE, IN. TO BE LAMINATED | MIN. GALS. OF AIR-ENTRAINING AGENT PER CU. YD. | MIN. SLABS OF CONCRETE, IN. TO BE LAMINATED | MIN. GALS. OF AIR-ENTRAINING AGENT PER CU. YD. |
|---------------------------------------------|------------------------------------------------|---------------------------------------------|------------------------------------------------|
| 2,500 psi                                   | 5                                              | 7-1/2                                       | 3                                              |
| 3,000 psi                                   | 5-1/2                                          | 6                                           | 1                                              |
|                                             |                                                |                                             | SLABS ON GROUND                                |
|                                             |                                                |                                             | ALL OTHER CONCRETE                             |

**REINFORCING STEEL:**  
 ALL REINFORCING SHALL BE NEW BILLET STOCK ASTM A615, 60 STEEL. BARS SHALL BE SEPARATELY TIED IN PLACE WITH #16 DOUBLE ANNEALING IRON WIRE. BARS SHALL BE SUPPORTED ON APPROVED CHAIRS OR WALL CHAIR CONCRETE BLOCKS. REINFORCING STEEL SHALL BE DETAILLED IN ACCORDANCE WITH ICE "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES". SHOP DRAWINGS (INCLUDING PLACING PLANS AND ELEVATIONS) SHALL BE SUBMITTED TO AND REVIEWED BY THE ARCHITECT/ENGINEER BEFORE STARTING FABRICATION. REINFORCEMENT SHALL BE LAP SPLICED FOR TENSION UNLESS OTHERWISE NOTED ON DRAWINGS. WELDING OF THIS KIND OF REINFORCING BARS TO OTHER BARS OR TO PLATES, HOLES, ETC., IS PROHIBITED.

**LAMINATE:**  
 ALL LAMINATE SHALL BE VESICULAR GRABED IN ACCORDANCE WITH CURRENT U.S.P.A. GRABING RULES. ALL EXTERIOR LAMINATE SHALL BE MANUFACTURED IN ACCORDANCE TO ATC 117-79 (MPPS-58) WITH  $F_v = 2400$  psi,  $F_c = 185$  psi,  $F_t = 385$  psi,  $E = 1,800,000$  psi. SHORTLY PLACING PLANS AND SHOP DRAWINGS OF ALL LAMINATED MEMBERS TO THE ARCHITECT FOR REVIEW BEFORE FABRICATION.

**PLYWOOD:**  
 ALL PLYWOOD EXCEPT WHERE OTHERWISE NOTED ON DRAWINGS SHALL BE STANDARD C-0 INTERIOR WITH EXTERIOR GRADE AS GRADED BY THE AMERICAN PLYWOOD ASSOCIATION. ALL PLYWOOD SHALL BE MADE WITH EXTERIOR TYPE GRADE.

**TREATED WOOD:**  
 ALL WOOD LEDGERS, PLATES, SELLS, AND MILLERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE TREATED IN ACCORDANCE WITH NAPA-FOR, AND BEAR THAT QUALITY MARK.

**PREMANUFACTURED WOOD TRUSSES AND JOISTS:**  
 ALL TRUSSES AND JOISTS SHALL BE FACTORY MANUFACTURED AND DESIGNED TO SUPPORT THE LOADS SHOWN ON THE DRAWINGS. SHORTLY DETAIL SHOP DRAWINGS AND DESIGN CALCULATIONS OF ALL TRUSSES AND JOISTS TO THE ARCHITECT FOR REVIEW BEFORE FABRICATION. WHERE SUBSTITUTIONS RESULT IN A CHANGE TO THE STRUCTURAL DRAWINGS, SUCH CHANGES IN DETAILS SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

**CONNECTIONS AND FASTENINGS:**  
 ALL FASTENING DETAILS SHALL BE IN ACCORDANCE WITH SEC. 2510 OF U.B.C. (1995) UNLESS OTHERWISE SHOWN. EXCEPT WHERE NOTED OTHERWISE ON PLANS, STANDARD WORKERS SHALL BE UNDER ALL BOLTS AND NUTS CONTRACTING WOOD. PROVIDE STEEL STRAPS AT PIPES IN STUD WALLS AS REQUIRED BY U.B.C., SECTION 2510 (4) & (5). BOLTS SHALL BE STANDARD MACHINE BOLTS. REFER TO "STRUCTURAL STEEL" FOR FABRICATION OF G.I. BRACKETS. ALL 1/4" SHALL BE ONE QUARTER INCHES. ALL 3/4" SHALL BE THREE QUARTERS INCHES OR GALVANIZED. IF GALVANIZED SHALL BE TO BE USED. CONTRACTOR MUST SUBMIT SCHEDULE OF MILLS DESIGN AS SUBSTITUTION TO THE ARCHITECT FOR REVIEW. ALL METAL CONNECTIONS SHALL BE FULLY WELDED OR BOLTED UNLESS OTHERWISE NOTED ON THE PLANS.

**MISCELLANEOUS:**  
 REFER TO ARCHITECTURAL PLANS FOR WALL OPENINGS, ARCHITECTURAL TREATMENT AND DIMENSIONS NOT SHOWN. CONSULT MECHANICAL PLANS FOR SIZE AND LOCATIONS OF ALL OPENINGS FOR DUCTS, PIPING, ETC., NOT SHOWN.



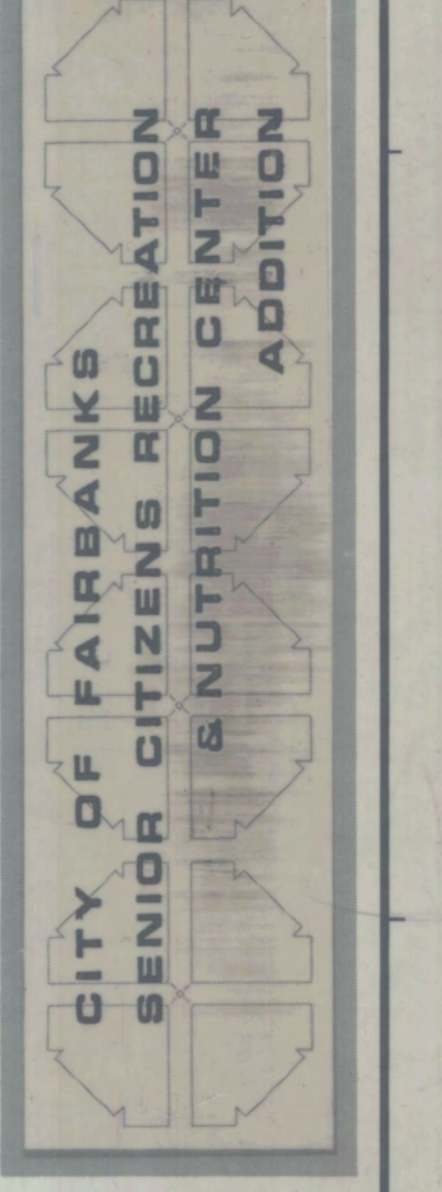
**C. LEMARCHAND KENNEDY AND ASSOCIATES:**  
**environdesign**  
 ARCHITECTURE, PLANNING, ENERGY MANAGEMENT  
 1327 KALAKAKET, FAIRBANKS, ALASKA 99701 (907) 479-3193

**REVISIONS:**

**PROJECT NO.**  
 DATE: 6/20/86  
 DRAWN: WJW  
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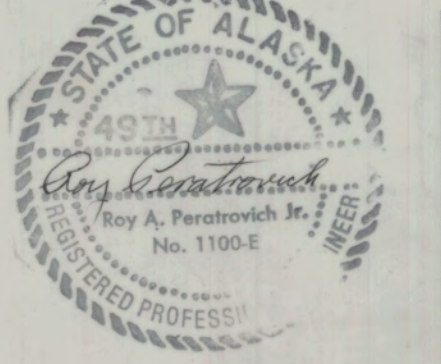
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**HOLD-DOWN DETAILS SCALE:**



**DRAWING NO.**  
**S1**

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