DESIGN LOADS DESIGN ROOF SNOW LOAD:
GROUND SNOW LOAD (Pg):
SNOW EXPOSURE FACTOR (Ce):
SNOW LOAD IMPORTANCE FACTOR (Is):
SNOW LOAD THERMAL FACTOR (Ct):
FLAT ROOF SNOW LOAD (PF): EQUIVALENT LATERAL FORCE PROCEDURE
OCCUPANCY CATEGORY: IV
SEISMIC IMPORTANCE FACTOR (Ie):1.5
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
SS: 0.317
S1: 0.077
SEISMIC SITE CLASS: C (BASED ON FOUNDATION DATA PROVIDED IN 1972 STRUCTURAL DRAWINGS)
SPECTRAL RESPONSE COEFFICIENTS:
Sds: 0.254
Sd1: 0.087
SEISMIC DESIGN CATEGORY: C
BASIC STRUCTURAL SYSTEM: BUILDING FRAME SYSTEM
BASIC SEISMIC FORCE RESISTING SYSTEM:
STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISTING RESPONSE MODIFICATION FACTOR (R): 3.0
SEISMIC RESPONSE COEFFICIENT (Cs): 0.086 BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2006 EDITION (WAIVER FROM ASCE 7—05 MINIMUM DESIGN LOADS FOR BUILDINGS
AND OTHER STRUCTURES.
INTERNATIONAL EXISTING BUILDING CODE, 2006 EDITION REFERENCE THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS. DESIGN SEISMIC LOADS:
SEISMIC BASE SHEAR NOT INCREASED BY MORE THAN 10%. PER 2006 IBC / 2006
INTERNATIONAL EXISTING BUILDING CODE FOR LEVEL 2 ALTERATION: SEISMIC UPGRADE
OF COMPLETE BUILDING IS NOT REQUIRED. LATERAL SYSTEM ESTABLISHED /
UPGRADED AT SELECT AREAS OF IMPACT BASED ON THE FOLLOWING: DESIGN WIND LOAD:

BASIC WIND SPEED:

WIND LOAD IMPORTANCE FACTOR (Iw): 1.15

WIND EXPOSURE:

INTERNAL PRESSURE COEFFICIENT: ±0.18

COMPONENTS & CLADDING LOADS PER ASCE 7-05 DESIGN FLOOR LIVE LOADS: ALL NEW INTERIOR SPACES: 100 PSF IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2006 EDITION, SECTION 1704.1), A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED AS A CONDITION FOR PERMIT SSUANCE BY THE LOCAL CODE OFFICIAL. THIS STATEMENT SHALL INCLUDE A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, THE INSPECTIONS TO BE PERFORMED AND A LIST OF THE INDIVIDUALS, APPROVED AGENCIES AND FIRMS INTENDED TO BE RETAINED FOR CONDUCTING SUCH INSPECTIONS. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF SHORING, AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ARCHITECT AND ENGINEER. SUBMIT ONE COPY AND ONE SEPIA. COPY WILL BE REVIEWED AND SEPIA WILL BE RETURNED. FOR SHOP DRAWINGS AND SUBMITTALS REQUIRED, REFERENCE THE PROJECT SPECIFICATIONS. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE STRUCTURAL DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT. ALL DIMENSIONS, EXISTING CONDITIONS, AND AS—BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS. PROVIDE AND INSTALL NECESSARY MATERIAL TO CONNECT ELEVATOR SUPPORT BEAMS AND GUIDE RAILS. LOCATION AND SIZE OF MEMBERS AND ANY INSERTS REQUIRED SHALL BE DETERMINED BY THE ELEVATOR MANUFACTURER. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD SUITABLE UNDISTURBED NATIVE SOILS AND/OR NEW (FILL EXTENDING TO UNDISTURBED NATIVE SOIL. EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ANY ADJACENT STRUCTURES. PRESUMPTIVE BEARING CAPACITY 3,000 PSF. 1. THE FOLLOWING LINTELS STRUCTURAL STEEL NOTES PROVIDE ONE ANGLE FOR EACH 4" WALL THICKNESS. FOR 6" WALL THICKNESS, PROVIDE WT OR BUILT—UP SECTION WITH PROPERTIES EQUAL TO OR GREATER THAN 1 1/2 TIMES THE ANGLE PROPERTIES FOR A 4" WALL THICKNESS. PROVIDE 8" OF BEARING AT EACH END OF ALL LINTELS. THE METAL ROOF AND FLOOR DECK SHALL BE FORMED OF STEEL SHEETS CONFORMING TO ASTM STANDARD A611. FOR DECK ATTACHMENTS, PENETRATIONS AND ACCESSORIES, REFER TO SPECIFICATIONS. FLOOR AND ROOF DECK SHALL BE AS NOTED ON THE DRAWINGS (OR EQUIVALENT). ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITION OF EMBEDMENTS. "WET SETTING" OF EMBEDMENTS INTO CONCRETE IS PROHIBITED. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN FABRICATION, AND ERECTION OF STRUCTURAL STEEL" 13TH EDITION, AND THE "CODE OF STANDARD PRACTICE, LATEST EDITION. PROVIDE L $4 \times 4 \times 1/4$ SLAB SUPPORT ANGLE AS REQUIRED AT COLUMNS WHERE STRUCTURAL MEMBERS DO NOT FRAME IN AT ALL FOUR SIDES. PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHORS, BOLTS, ETC., SHOWN ON ARCHITECTURAL DRAWINGS FOR SUPPORT OF BLOCKING, PARAPETS, FINISHES, ETC. COORDINATE WITH MISCELLANEOUS METAL FABRICATOR TO ENSURE COMPLETE COVERAGE OF ALL ITEMS. STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE (U.N.O.). STRUCTURAL STEEL SHAPES DESIGNATED ON THE DRAWINGS FOR WIDE—FLANGE SECTIONS: ASTM A992 (ASTM A572 GRADE 50 WITH SPECIAL REQUIREMENTS PER AISC TECHNICAL BULLETIN #3 DATED MARCH, 1 ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE "5-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS: REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION. PROVIDE 3/8" MINIMUM STIFFENER PLATES EACH SIDE OF BEAM WEB AT BEAMS FRAMING OVER COLUMNS AND AT BEAMS SUPPORTING COLUMNS ABOVE. WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1— LATEST EDITION. ELECTRODES SHALL BE CONFORM TO AWS A5.1 E70XX SERIES WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN). FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325N HIGH
STRENGTH BOLTS (U.N.O.) EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE
REQUIRED AND NOTED BY A325 (SC) ON THE DRAWINGS. PROVIDE SLIP CRITICAL (SC)
CONNECTIONS AT ALL MOMENT CONNECTIONS, BRACED FRAMES, RELIEVING
ANGLES AND AS OTHERWISE NOTED. USE A490 BOLTS WHERE INDICATED. STRUCTURAL TUBING: INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION, SUBGRADE FLUCTATIONS, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED. ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI, U.N.O. EXTERIOR SLAB-ON-GRADE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,500 PSI. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO, AIR CONTENT, AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIRMENTS. SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION, TYP. ANCHOR RODS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, UNLESS NOTED OTHERWISE ON DRAWINGS. WELDING OF REINFORCEMENT IS NOT PERMITTED. CONCRETE SHALL NOT BE PLACED MASONRY OPENING

UP TO 3'-0"

3'-1" TO 4'-6"

4'-7" TO 6'-0"

6'-1" TO 8'-0" EXTERIOR LINTELS SHALL A) SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3.0"
B) FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
#5 BARS, 5/8" DIAMETER WIRE, AND SMALLER, 1.5"
#6 THROUGH #11 BARS, 2.0" CONFORM TO ASTM A500 GRADE B46 KSI. SHALL BE USED FOR MASONRY OPENINGS, U.N.O. ON DRAWINGS: LINTEL SIZE

L 3 1/2 x3 1/2 x 5/16

L 4 x 3 1/2 x 5/16 (LLV)

L 5 x 3 1/2 x 5/16 (LLV)

L 6 x 3 1/2 x 5/16 (LLV) IN WATER OR ON FROZEN GROUND. DIPPED GALVANIZED.

GENERAL NOTES

Bartlett Design
Bath, Maine

ical Systems Eng Yarmouth, Maine