

DESIGN CODES AND LOADING:
INTERNATIONAL BUILDING CODE (2009 EDITION)

LIVE LOADS:
FLOOR: 100 PSF

LATERAL LOADS:
WIND: V35 =101 MPH, EXP B, Iw =1.0, Kzt = 1.0
SEISMIC: Ss=0.313, Si=0.0767, Sds= 0.323, Sdi= 0.123, Ie=1.0
OCCUPANCY CATEGORY II
SEISMIC SOIL SITE CLASS D
SEISMIC DESIGN CATEGORY B

GENERAL:
THE INTERNATIONAL BUILDING CODE AND STANDARDS SHALL GOVERN ALL MATERIALS AND WORKMANSHIP.

ALL TEMPORARY SHORING OR BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE DRAWINGS REFLECT THE FINAL FINISHED CONDITION OF THE STRUCTURE.

THESE DRAWINGS ARE NOT INTENDED TO SHOW EACH AND EVERY CONDITION, BUT INDICATE THE GENERAL CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY DETAILED, SIMILAR CONDITIONS SHALL BE USED AT THE DISCRETION AND APPROVAL OF THE ARCHITECT AND ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR ALL JOB SITE SAFETY AS WELL AS ALL MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION TO SAFELY PERFORM THE WORK. A/E ENGINEERS HAS NO EXPERTISE IN NOR HAS BEEN RETAINED TO PROVIDE REVIEW OF THE CONTRACTORS SAFETY PRECAUTIONS AS THEY RELATE TO THE CONSTRUCTION OF THIS PROJECT.

IF ANY ERROR OR OMISSION APPEARS IN THESE DRAWINGS, SPECIFICATIONS, OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF SUCH OMISSION OR ERROR BEFORE PROCEEDING WITH THE WORK, OR ACCEPT FULL RESPONSIBILITY FOR THE COST TO RECTIFY SAME. VERIFY AND COORDINATE OPENINGS IN FLOORS, WALLS AND ROOF WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

THE ARCHITECTURAL DRAWINGS SHALL BE REFERENCED FOR WALLS, FINISHES AND DIMENSIONS. DIMENSIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE ARCHITECTURAL DRAWINGS.

DRAWINGS ARE NOT TO BE SCALED.

SHOP DRAWINGS:
SHOP DRAWINGS ARE SPECIFICALLY REQUIRED FOR THE FOLLOWING ITEMS.
STRUCTURAL STEEL

THESE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW. THE REVIEW WILL BE FOR THE DESIGN INTENT ONLY. THE SHOP DRAWINGS SHALL BE SUBMITTED BEFORE PROCEEDING WITH FABRICATION AND SHALL ALLOW TWO WEEKS MINIMUM FOR REVIEW. WE WILL REVIEW ONLY ONE REPRODUCIBLE SET AND ONE COPY TO BE RETAINED BY A/E.

FOOTING AND FOUNDATION LOADING:
SOILS REPORT: NONE

ALLOWABLE SOIL BEARING PRESSURE: -----1,500 PSF ASSUMED

STRUCTURAL STEEL:

GENERAL REQUIREMENTS:
TUBE COLUMNS: ASTM A500 GRADE B (Fy=46,000 psi).
PIPE COLUMNS: ASTM A53 GRADE B (Fy=35,000 psi).
ALL 'W' AND 'H' SHAPES: A992, (Fy=50,000 psi).
ALL OTHER STEEL: ASTM A36.
ALL STAINLESS STEEL 316L (Fy=30,000 psi).
ALL BOLTS: ASTM A325 INSTALLED PER CRITERIA FOR SLIP CRITICAL CONNECTIONS U.N.O.
ALL ANCHOR BOLTS: ASTM F1554 GRADE 36, U.N.O. FURNISH ANCHOR RODS WITH MATCHING DOUBLE HEAVY HEX NUTS AT THE END EMBEDDED IN CONCRETE.

CAST-IN HEADED BOLTS SHALL BE PLACED ACCURATELY INTO FINAL POSITION PRIOR TO POURING CONCRETE. ADDING BOLTS AFTER A POUR OR 'WET STICKING' IS NOT ALLOWED.

PROVIDE WASHERS FOR ALL BOLTS AS REQUIRED BY AISC. AS A MINIMUM PROVIDE STANDARD CUT WASHERS UNDER ALL NUTS.

ONE COAT OF APPROVED SHOP PAINT MINIMUM TO ALL STEEL NOT EMBEDDED IN CONCRETE. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC (ASD) SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. STEEL NOTED AS GALVANIZED SHALL BE HOT-DIP GALVANIZED UNO.

CONTRACTOR SHALL DESIGN AND SUPPLY ALL ADDITIONAL MISCELLANEOUS METALS THAT ARE INDICATED IN THE ARCHITECTURAL DRAWINGS OR THOSE METALS WHICH ARE FOUND TO BE NECESSARY TO SUPPORT THE ARCHITECTURAL FINISHES OR OTHER BUILDING SYSTEMS. ALL FRAMING AND CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL NOT RESULT IN ECCENTRIC LOADS BEING APPLIED TO THE PRIMARY STRUCTURE OR LATERAL LOADS BEING APPLIED TO THE BOTTOM FLANGE OF STEEL BEAMS. SUBMIT CALCULATIONS STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT ALONG WITH SHOP DRAWINGS NOTING THE LOADING IMPOSED ON THE PRIMARY STRUCTURE.

WELDING REQUIREMENTS:
ALL WELDING SHALL MEET AWS/MBO CODES FOR ARC WELDING IN BUILDING CONSTRUCTION.

EXCEPT AS SPECIFIED IN THE SPECIAL PROCEDURE OF THIS SECTION, ELECTRODES MAY BE E70 (70 KSI MINIMUM). ELECTRODES MUST BE KEPT DRY AT ALL TIMES.

MINIMUM WELDS SHALL BE 3/16" OR AS NOTED IN SECTION J.2b OF AISC (WHICHEVER IS LARGER)

ALL WELDING OF STAINLESS STEEL SHALL USE E309 ELECTRODES WITH A GTA/C PROCESS

FIELD AND SHOP WELDING SHALL BE PERFORMED BY AWS/MBO CERTIFIED WELDERS.

POST INSTALLED ANCHORS:

MASONRY INSTALLATION: U.N.O., INSTALLATION SHALL BE IN GROUTED CELLS ONLY. IF EMBEDMENT MUST BE PROVIDED IN AN UN-GROUTED CELL, NEW GROUT SHALL BE ADDED AT THAT CELL EXTENDING TO THE HORIZONTAL BOND BEAM BELOW. ONE EMBEDDED ITEM ONLY PER GROUTED CELL IS ALLOWED AND NO EMBEDDED ITEMS ARE ALLOWED WITHIN 8" OF A FREE EDGE.

HLTI HIT HY-70 (ICC ESR-2682) OR APPROVED EQUAL SHALL BE USED FOR GROUTED MASONRY CONSTRUCTION, POWERS T308+ EPOXY (ICC ESR-3149) OR APPROVED EQUAL SHALL BE USED FOR UN-GROUTED MASONRY CONSTRUCTION, AND POWERS PE1000+ EPOXY (ICC ESR-2583, LARR-25849) OR APPROVED EQUAL SHALL BE USED FOR CONCRETE CONSTRUCTION WHERE EPOXY GROUT IS SPECIFIED, U.N.O. ON PLANS OR IN DETAILS.

MANUFACTURER'S RECOMMENDATIONS AND ICC REPORT SHALL BE FOLLOWED DURING THE PREPARATION AND INSTALLATION OF ALL GROUTED BOLTS, RODS AND REINFORCING BARS.

POWERS POWER-STUD+ SDI (ICC ESR-2966, LARR-25864) OR APPROVED EQUAL FOR MASONRY CONSTRUCTION AND POWERS POWER-STUD+ SD2 (ICC ESR-2502, LARR-25831) OR APPROVED EQUAL FOR CONCRETE CONSTRUCTION SHALL BE USED WHERE EXPANSION BOLTS ARE SPECIFIED, U.N.O. ON PLANS OR IN DETAILS.

NO REINFORCING SHALL BE CUT TO INSTALL ANCHORS. DEFECTIVE OR ABANDONED HOLES SHALL BE FILLED WITH NON-SHRINK GROUT THAT AS A MINIMUM MATCHES THE ADJACENT CONCRETE/MASONRY STRENGTH.

SPECIAL INSPECTION IS REQUIRED FOR INSTALLATION OF ALL POST INSTALLED ANCHORS.

SPECIAL INSPECTIONS:
GENERAL REQUIREMENTS:
ALL SPECIAL INSPECTIONS SHALL MEET THE REQUIREMENTS OF THE 2009 IBC, CHAPTER 17.

ALL INSPECTIONS AS REQUIRED BY SECTION 110 OF THE 2009 INTERNATIONAL BUILDING CODE ARE REQUIRED. INSPECTIONS SPECIFIED IN THESE NOTES ARE IN ADDITION TO THESE INSPECTIONS.

CITY INSPECTION IS NOT A SUBSTITUTE FOR SPECIAL INSPECTION.

ANY WORK WHICH HAS BEEN COVERED BUT NOT PROPERLY INSPECTED BY THE SPECIAL INSPECTOR AND/OR THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.

WHERE SPECIFICALLY REQUIRED, CONTINUOUS INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK. THIS MAY BE A REQUIREMENT OF THE BUILDING CODE / LOCAL JURISDICTION OR THE MANUFACTURER.

THE SPECIAL INSPECTOR MUST BE CERTIFIED TO PERFORM THE TYPES OF INSPECTION SPECIFIED AND SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND INFORMING THE SPECIAL INSPECTOR OR CITY INSPECTOR AT LEAST ONE WORKING DAY BEFORE THE WORK IS TO BE PERFORMED UNLESS OTHER CONDITIONS ARE AGREED UPON.

REQUIREMENTS OF THE SPECIAL INSPECTOR:
THE SPECIAL INSPECTOR MUST WORK UNDER THE SUPERVISION OF A MAINE LICENSED CIVIL ENGINEER.

THE SPECIAL INSPECTOR MUST PERSONALLY BE FAMILIAR WITH THE DRAWINGS AND MUST PERSONALLY OBSERVE ALL OF THE WORK REPORTED ON.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING DEPARTMENT AND ENGINEER. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF NOT CORRECTED, TO THE BUILDING DEPARTMENT AND ENGINEER.

THE FINAL REPORT SHALL BE SIGNED BY A MAINE LICENSED CIVIL ENGINEER AND SHALL STATE THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF IBC.

SPECIFIC SPECIAL INSPECTIONS REQUIRED:

ALL EPOXY GROUTING OF BOLTS OR REINFORCING BARS.

ALL EXPANSION BOLTS.

ALL REINFORCED MASONRY CONSTRUCTION REQUIRES LEVEL 'C' QUALITY ASSURANCE INSPECTIONS WITH FRISM TESTS PER ACI 530-08.

ALL WELDING OF STEEL EXCEPT WELDING PERFORMED IN AN AISC APPROVED SHOP.

DISCLAIMER:
THESE DOCUMENTS AND THE DESIGN ARE SPECIFIC TO THIS PROJECT ONLY AND MAY NOT BE REUSED IN ANY WAY WITHOUT WRITTEN APPROVAL OF ARMOUR UNSDERFER ENGINEERING. IT IS OUR INTENT THAT THIS DESIGN MEETS THE NORMAL STANDARD OF CARE WITHIN THIS INDUSTRY. NO OTHER WARRANTY IS PROVIDED OR IMPLIED.

GENERAL ABBREVIATIONS:

Table with 20 columns of abbreviations and their corresponding full names, including terms like ANCHOR BOLT, ADD'L, ADJ., ALT., APPROX., ARCH, etc.

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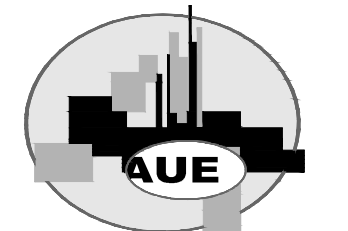
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Table with columns: Issue, Date, Issue, Date. Contains revision entries A, B, and C.

Project:

FAT FACE PORTLAND
34 EXCHANGE STREET
PORTLAND, ME 04104

Drawing Title

GENERAL NOTES &
ABBREVIATIONS

Table with columns: Project No., Drawn By, Date, Scale. Shows project number 5063.02 and scale 1/8"=1'-0".

Professional Engineer Seal for Brian J. Unsderfer, License No. 11494, State of Maine. Includes drawing title DS-001 and date 07/20/2015.