

DESIGN

BUILDING CODE: INTERNATIONAL BUILDING CODE 2012 (IBC) WITH GEORGIA AMENDMENTS

RISK CATEGORY: I

WIND:

115 MPH (B-SECOND GUST)

EXPOSURE CATEGORY: B

COMPONENTS AND CLADDING: COMPONENTS AND CLADDING ELEMENTS NOT SPECIFICALLY DESIGNED ON THESE DRAWINGS SHALL BE DESIGNED ACCORDING TO THE WIND PRESSURES STIPULATED BY IBC 2012 FOR THE TRIBUTARY AREA OF THE SPECIFIC COMPONENT.

MIN ALLOWABLE DESIGN PRESSURE (+2 PSF WALLS, 100 SQ FT NON-END ZONE)

INTERNAL PRESSURE COEFFICIENT (GCp) = +0.18, -0.18

SEISMIC:

Ie = 1.0, P = 1.0, Sps = 0.226, Ss = 0.152, SITE CLASS = D (ASSUMED), SEISMIC DESIGN CATEGORY = C, ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

SEISMIC RESISTING SYSTEM:

LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

Rd = 1/2, n = 3, Cd = 4, N-S SHEAR = 6 kIP, E-W SHEAR = 5 kIP

SNOW:

GROUND SNOW LOAD = 5 PSF, Is = 1.0, SNOW EXPOSURE FACTOR Ce = 1.0, SNOW THERMAL FACTOR Ct = 1.0

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MISCELLANEOUS

- 1. THE FOLLOWING NOTES APPLY TO ALL PROJECT RELATED STRUCTURAL DRAWINGS...
2. STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS...
3. NO OPENINGS OR MODIFICATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT...
4. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT...
5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION...
6. THE CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS...
7. DO NOT SCALE THESE DRAWINGS; USE DIMENSIONS FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS...
8. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS...
9. WHERE A SECTION OR DETAIL IS CUT ON THE PLAN IT IS UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS...
10. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY...
11. CONSULT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATIONS, SIZES, AND EXTENT OF CHASES, INSERTS, RECESSES, RODS, FINISH DEPRESSIONS, ETC...
12. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE...
13. STRUCTURAL CONTRACT DOCUMENTS SHALL INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR...
14. REFERENCE TO STANDARD SPECIFICATIONS OF THE TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OF PROFESSIONAL ENGINEERS...
15. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, SLOPE, AND LOCATION OF DEPRESSIONS, FLOOR AREAS, AND THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY...
16. TYPICAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS...
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS

SUBMITTALS

- 1. STRUCTURAL DRAWINGS GIVE REPRESENTATIVE DETAILS AND ARE NOT INTENDED TO SHOW ALL CONDITIONS THAT MAY BE PRESENT...
2. CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES TO ARCHITECT AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL...
3. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS...
4. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL...
5. COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL FABRICATED AND SPECIALTY BUILDING COMPONENTS INCLUDING (BUT NOT LIMITED TO) WINDOW SYSTEMS, CANOPY SYSTEMS, AND METAL STAIRS...
6. ALL APPROVED SUBMITTALS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, SHALL BE MADE AVAILABLE ON THE JOBSITE FOR REVIEW BY THE INSPECTOR...
7. REPRODUCTION OF CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT PERMITTED.

FOUNDATIONS

- 1. FOOTINGS AND THICKENED SLABS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING AN ASSUMED NET ALLOWABLE BEARING PRESSURE OF 1.5 KSF FOR INDIVIDUAL FOOTINGS...
2. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH CIVIL DRAWINGS AND PROJECT SPECIFICATIONS...
3. THE FOOTINGS HAVE BEEN POSITIONED AT THE ESTIMATED ELEVATION WHICH WILL PROVIDE SUITABLE BEARINGS...
4. FOOTINGS MAY BE CAST INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT...
5. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS...
6. IN AREA OF THE BUILDING EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED...
7. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED...
8. ALL EXCAVATIONS AND STRUCTURE BEARING PADS SHALL BE INSPECTED BY AN INDEPENDENT TESTING AGENCY...
9. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 6" BELOW FINAL GRADE FOR FROST PROTECTION...
10. NO EXCAVATION SHALL BE CLOSER THAN AT LEAST ONE (1) FOOT VERTICAL TO A FOOTING...
11. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED...
12. BACKFILL AGAINST WALLS SHALL BE PLACED IN 8" LIFTS...
13. CONTRACTOR SHALL PROVIDE AN ADEQUATE DRAINAGE SYSTEM FOR ALL BACKFILL...
14. CONTRACTOR SHALL PROVIDE AN ADEQUATE DRAINAGE SYSTEM FOR ALL BACKFILL...
15. CONTRACTOR SHALL PROVIDE AN ADEQUATE DRAINAGE SYSTEM FOR ALL BACKFILL...

CONCRETE

- 1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-11 AND ACI 301-10...
2. CEMENT USED SHALL BE TYPE I OR II CONFORMING TO ASTM C-150...
3. AGGREGATE SHALL BE WELL GRADATED AND SHALL CONFORM TO THE FOLLOWING:
FOOTINGS: STRENGTH (PSI) 3000, DENSITY (PCF) 145-150
INTERIOR 4" SLAB ON GRADE: STRENGTH (PSI) 3000, DENSITY (PCF) 145-150
4. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW IN ADVANCE OF CONCRETE PLACEMENT...
5. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE...
6. NO ADDITIONAL WATER SHALL BE ADDED TO CONCRETE AT THE JOB SITE.

- 7. MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE:
A. #11 BARS AND SMALLER: 3/4 INCHES
B. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 INCHES
C. BASEMENT WALLS: 2 INCHES EXTERIOR, 3/4 INCHES INTERIOR
D. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: #5 BARS AND LARGER: 2 INCHES, #5 BARS AND SMALLER: 1 1/2 INCHES
E. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: BEAMS, GIRDERS AND COLUMNS: 1 1/2 INCHES, SLABS, WALLS, AND JOISTS: 3/4 INCHES
8. SLAB-ON-GRADE SHALL BE SAW CUT NO MORE THAN 12 HOURS AFTER CONCRETE HAS BEEN FINISHED...
9. PLACEMENT OF CONCRETE, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-11...
10. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SLAB FINISHES, SLAB DEPRESSIONS, ELEVATIONS AND ENCASED OR EMBEDDED ITEMS...
11. PIPES AND CONDUITS EMBEDDED IN CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
A. NO MATERIAL HARMFUL TO CONCRETE (SUCH AS, BUT NOT LIMITED TO, ALUMINUM) IS PERMITTED...
B. NO EMBEDMENT OR PENETRATION WHICH IMPAIRS THE STRUCTURAL STRENGTH OR INTEGRITY IS PERMITTED...
C. CONDUITS AND PIPES SHALL NOT HAVE A DIAMETER THAT EXCEEDS 1/3 THE OVERALL THICKNESS OF THE STRUCTURAL ELEMENT IN WHICH THEY ARE EMBEDDED...
D. MINIMUM CENTER TO CENTER SPACING SHALL NOT BE CLOSER THAN 3 DIAMETERS OR WIDTH...
E. PLACEMENT SHALL OCCUR ABOVE BOTTOM LAYER OF REINFORCEMENT AND BELOW TOP LAYER OF REINFORCEMENT...
F. PLACEMENT SHALL MAINTAIN A MINIMUM CLEARANCE FROM REINFORCEMENT OF 3 REINFORCING BAR DIAMETERS OR 3/4" FROM WELDED WIRE FABRIC REINFORCEMENT...
G. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW SLAB ON GRADE...
12. UNLESS NOTED OTHERWISE, PROVIDE CONTROL JOINTS IN SLABS ON GRADE NOT TO EXCEED 18 FEET ON CENTER IN EACH DIRECTION...
13. FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION...
14. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER...
15. REINFORCING SHALL CONFORM TO ASTM A615, GR60 UNLESS NOTED OTHERWISE...
16. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 GRADE 60...
17. REINFORCING STEEL AND ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH ACI 318 (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES) AND CRSI MSP-4 (MANUAL OF STANDARD PRACTICE) LATEST EDITION...
18. ALL 'CONTINUOUS' REINFORCEMENT SHALL HAVE A MINIMUM LAP OF 48 BAR DIAMETERS (ACI 318-11, SECTION 12.2) AT SPLICES UNLESS OTHERWISE NOTED...
19. PROVIDE REINFORCING BARS FOR A SLAB-ON-GRADE BEARING...
20. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW...
21. ALL REINFORCING SHALL BE SUPPORTED BY FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURED TOGETHER IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE (2) LATEST EDITION...
22. WHERE WELDED WIRE FABRIC REINFORCEMENT IS SPECIFIED IN SLABS ON GRADE PLACEMENT SHALL BE 1" BELOW TOP OF SLAB OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND PROVIDE 3" Wires ON EACH SIDE...
23. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON...
24. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

- DESIGN CODE: AMERICAN INSTITUTE OF STEEL CONSTRUCTION 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - 14TH EDITION (AISC)
1. STEEL SHALL CONFORM TO THE FOLLOWING GRACES:
ALL CHANNELS, ANGLES, PLATES, ETC. (UNO): ASTM A36 (Fy=36ksi)
ANCHOR RODS: ASTM F1554 (Fy=68ksi)
HIGH STRENGTH BOLTS: ASTM A325
HEX NUTS - GRADE A: ASTM A563
WELDING ELECTRODES: E70XX HARDENED STEEL, ASTM F436
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (2010) EXCEPT AS MODIFIED IN THESE NOTES...
3. THE STRUCTURE IS DEPENDENT UPON DIAPHRAGM ACTION OF THE ROOF DECK AND ATTACHMENT TO THE SHEAR WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES...
4. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS...
5. SPLICES OF STEEL MEMBERS UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT...
6. NO HOLES SHALL BE CUT IN ANY STEEL ELEMENT UNLESS THEY ARE DETAILED ON THE DRAWINGS...
7. FABRICATE AND ERECT MEMBERS WITH NATURAL CAMBER UP...
8. UNLESS OTHERWISE SHOWN ON DRAWINGS, SIZE OF WELOS SHALL NOT BE SMALLER THAN 3/16"...
9. THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION...
10. OBTAIN ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FABRICATION AND INSTALLATION OF WORK PRIOR TO DETAILING... PRECISE MEASUREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

- 11. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS...
12. WELDING INSPECTION SHALL MEET REQUIREMENTS AS STATED IN THE SCHEDULE OF SPECIAL INSPECTIONS...
13. ALL STRUCTURAL STEEL NOT RECEIVING FIRE PROOFING SHALL RECEIVE ONE SHOP COAT OF RUST INHIBITIVE PRIMER.

WOOD FRAMING

- 1. ALL WOOD DESIGN AND CONSTRUCTION SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (ANSI/AF&PA NDS-2012) AND RELATED SUPPLEMENTS...
2. UNLESS NOTED, USE SOUTHERN YELLOW PINE (SYP), #4600 MN, 18% MAX MOISTURE CONTENT AS FOLLOWS - UNO:
BEAMS & HEADERS: No 2
LOAD BEARING STUDS (INTERIOR & EXTERIOR): No 2
NON-LOAD BEARING STUDS (INTERIOR): STUD GRADE
JOISTS & PURLINS: No 2
PLATES, BLOCKING & SUB-PURLINS: No 2
3. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR SOIL OR PERMANENTLY EXPOSED TO WEATHER SHALL BE PRESSURE TREATED...
4. AT STUD WALL OPENINGS, TOTAL NUMBER OF DISPLACED AND/OR MISSING STUDS SHALL BE INSTALLED AND ATTACHED TO THE JAMBS, ONE HALF OF THE TOTAL TO EACH SIDE OF THE OPENING...
5. METAL CONNECTORS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURERS INSTRUCTIONS...
6. WELDING CONNECTIONS SHOWN ON THE DRAWINGS OR NOTES BELOW, ATTACHMENT SHALL BE MADE IN ACCORDANCE TO TABLE 2304.9.1 FASTENING SCHEDULE IN THE INTERNATIONAL BUILDING CODE - SEE SHEET 50.3...
7. ALL CONNECTIONS SHALL BE #90 GALVANIZED STEEL, EXCEPT CONNECTORS IN CONTACT WITH PRESSURE TREATED, FIRE RETARDANT OR W/CLAMAZED WOOD SHALL BE COATED WITH #18 ZINC COATING...
8. FURNISH BOLTS AND ANCHOR RODS WITH STANDARD NUT WASHER...
9. TOP NAILS SHALL BE DRIVEN AT A 30° ANGLE RELATIVE TO PIECE, START NAIL AT ONE-THIRD NAIL LENGTH FROM THE END OF PIECE...
10. ALL LOAD BEARING STUD WALLS (INTERIOR & EXTERIOR) SHALL HAVE CONTINUOUS HORIZONTAL BLOCKING AT 4'-0" O.C. (MAX) VERTICALLY PRIOR TO APPLYING ANY LOADS...
11. WHERE (2)-2x AND (2)-2x + 1/2" PLYWOOD PLATE BEAMS ARE DESIGNATED, SPIKE PLATES TOGETHER WITH 12d NAILS @ 12" O.C. 1' FROM TOP AND 1' FROM BOTTOM OF PLATE...
12. WHERE (3)-2x AND LARGER BEAMS ARE DESIGNATED, PLATES SHALL BE BOLTED TOGETHER WITH 1/2" BOLTS @ 30" O.C. 1' 2" FROM TOP AND BOTTOM...
13. WHERE STUD PACK WOOD COLUMNS ARE DESIGNATED, SPIKE STUDS TOGETHER WITH 16d NAILS @ 12" O.C. (VERTICALLY)...
14. STUD PACK OR SOLID SAWN WOOD COLUMNS SHALL BE CONTINUOUS FROM LOCATION SHOWN TO THE FOUNDATION...
15. FINGER-JOINTED LUMBER IS PERMISSIBLE AT WALL STUDS ONLY...
16. STRUCTURAL ELEMENTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING UNLESS METAL OR WOOD SIDE PLATES ARE PROVIDED TO STRENGTHEN THE MEMBER...
17. DOUBLE TOP PLATES ((2)-2x) AT ALL WALLS SHALL BE LAPPED AT CORNERS AND INTERSECTIONS AND FASTENED IN ACCORDANCE WITH TABLE 2304.9.1 FASTENING SCHEDULE...
18. WALL SHEATHING NOTED ON STRUCTURAL DRAWINGS SHALL BE ATTACHED DIRECTLY TO THE FACE OF FRAMING MEMBERS...
19. ANCHOR ALL EXTERIOR INTERIOR LOAD BEARING AND SHEAR WALLS TO ANCHOR RODS OR EPOXY ANCHORS PER STRUCTURAL DRAWINGS...
20. PROVIDE ONE ROW OF BRDGING FOR EACH 8'-0" LENGTH OF ROOF FRAMING MEMBERS.

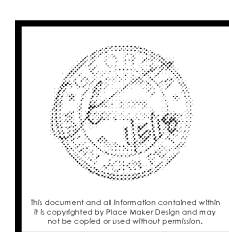
PLYWOOD ROOF DECKING

- 1. DECKING SHALL BE 5/8" APA-CDX RATED PLYWOOD SHEATHING 3216 (EXPOSURE I)...
2. ORIENT LONG SIDE OF PANEL PERPENDICULAR TO SUPPORT...
3. ATTACHMENT OF PANEL TO WOOD FRAMING MEMBERS SHALL BE 10d NAILS AT THE FOLLOWING SPACINGS...
4. EDGE SUPPORTS SHALL BE PROVIDED AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION (APA) BY USE OF PANEL CLIPS OR WOOD BLOCKING BETWEEN TRUSSES...



Table with columns: REV #, DATE, DESCRIPTION

REFORMATION BREWERY
105 LEWIS STREET
WOODSTOCK, GEORGIA 30188
REFORMATION BREWERY



PLACE MAKER DESIGN
1000 CIRCLE 75 PARKWAY
SUITE 400
ATLANTA, GEORGIA 30339
404.549.4499

Table with columns: ISSUE DATE, DRAWN BY, CHECKED BY, PWD PROJ #

GENERAL NOTES
S0.1