

GENERAL NOTES:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. 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 TIE DOWNS SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS.
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK SHOWN ON THE DRAWINGS FOR THE PROJECT ENGINEER'S REVIEW PRIOR TO FABRICATION.

DESIGN NOTES

- BUILDING CODE: IBC 2009.
- DEAD LOADS:
ACTUAL WEIGHTS OF COMPONENTS PLUS WEIGHT OF MECHANICAL UNITS AS NOTED IN MECHANICAL UNITS SCHEDULE.
- LIVE LOADS: AS NOTED ON FRAMING PLAN.
- SEISMIC DESIGN CRITERIA:
 - BUILDING OCCUPANCY CATEGORY: II
 - IMPORTANCE FACTOR $I_e=1.0$
 - MAPPED SPECTRAL RESPONSE ACCELERATION:
 $S_s = 0.318$ $S_1 = 0.078$
 - SEISMIC SITE CLASS: D
 - SPECTRAL RESPONSE COEFFICIENTS:
 $S_{DS} = 0.328$ $S_{D1} = 0.124$
 - SEISMIC DESIGN CATEGORY: B
 - BASIC SEISMIC-FORCE-RESISTING SYSTEMS (MECH PLATFORM):
STEEL BRACED FRAMES NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
 - SEISMIC RESPONSE COEFFICIENT: $C_s = 0.11$
 - RESPONSE MODIFICATION FACTOR: $R = 3.0$
 - ANALYSIS PROCEDURE:
EQUIVALENT LATERAL FORCE PROCEDURE.

QUALITY ASSURANCE/ SPECIAL INSPECTIONS

- STRUCTURAL SPECIAL INSPECTIONS SHALL BE PROVIDED BY THE OWNER DURING CONSTRUCTION AS REQUIRED BY IBC 2009, CHAPTER 17. REFER TO THE SCHEDULE OF SPECIAL INSPECTION FOR THE REQUIRED INSPECTIONS SCOPE. THE SPECIAL INSPECTOR (OR INSPECTORS) FOR THE PROJECT IS TO BE RETAINED BY THE OWNER AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- NO STATEMENTS OF COMPLETION WILL BE ISSUED BY THE SPECIAL INSPECTOR (OR INSPECTORS) WITHOUT COMPLETION OF THE SPECIAL INSPECTION REQUIREMENTS.
- SPECIAL INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF THE SPECIAL INSPECTOR (OR INSPECTORS), AND IN ACCORDANCE WITH THE "SCHEDULE OF SPECIAL INSPECTIONS", PREPARED BY THE STRUCTURAL ENGINEER OF RECORD. ONLY PERSONNEL AUTHORIZED BY THE APPROVED "LIST OF AGENTS" ARE QUALIFIED TO PERFORM THE TASKS OUTLINED IN THE SCHEDULE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE CONSTRUCTION ACTIVITIES AND SEQUENCES WITH THE SPECIAL INSPECTOR AND/OR HIS AGENTS TO PERFORM THE REQUIRED INSPECTION AND TESTING.

CONCRETE NOTES

- ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318 AND ACI 301. HOT AND COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 301 AND 306.1.
- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE:
3000 PSI FOR ALL INTERIOR FOOTINGS
4500 PSI FOR EXTERIOR SLABS

CEMENT SHALL BE ASTM C150, TYPE I OR II UNLESS NOTED OTHERWISE. AIR ENTRAINING ADMIXTURES SHALL BE USED FOR ALL CONCRETE EXPOSED TO WEATHER. MAXIMUM SIZE AGGREGATE SHALL BE 3/4", UNLESS OTHERWISE NOTED. MAXIMUM SLUMP SHALL BE 4" BEFORE ADDITION OF WATER REDUCING AGENT, IF USED.
- ALL DEFORMED REINFORCING BARS SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- PROVIDE 3/4" CHAMFER AT ALL EXPOSED CORNERS U.N.O.
- UNLESS OTHERWISE NOTED, THE CONCRETE COVER OVER REINFORCEMENT SHALL BE AS FOLLOWS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#5 AND SMALLER.....1 1/2"
#6 THRU #18.....2"
- AT LOCATIONS WHERE NEW CONCRETE IS BEING PLACED NEXT TO EXISTING CONCRETE, EXISTING CONCRETE SHALL BE SCARIFIED TO A 1/4" AMPLITUDE AND HAVE A BONDING AGENT APPLIED PRIOR TO NEW CONCRETE BEING PLACED.
- ALL GROUT BENEATH BASE PLATES SHALL BE "5-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP. OR APPROVED EQUAL.

POST-INSTALLED ANCHOR NOTES

- ANCHORS INSTALLED IN CAST-IN-PLACE CONCRETE SHALL BE HILTI HIT HY150 MAX ADHESIVE TYPE ANCHORS W/HILTI HIT-TZ RODS, OR APPROVED EQUAL. ANCHOR SIZE, EMBEDMENT, AND LOCATION SHALL BE AS SHOWN ON DRAWINGS.
- SEE DETAIL A1/SF201 FOR REQUIRED COLUMN ANCHOR BOLTS.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "STEEL CONSTRUCTION MANUAL" - 13TH EDITION.
- STRUCTURAL STEEL SHALL CONFORM TO ASTM 992 OR ASTM A572, GRADE 50 STEEL. STEEL FOR PLATES AND ANGLES SHALL CONFORM TO ASTM A36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B.
- FIELD CONNECTIONS SHALL BE BOLTED USING 3/4" DIAMETER A325N HIGH STRENGTH BOLTS EXCEPT WHERE FIELD WELDING IS INDICATED ON THE DRAWINGS.
- ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. ELECTRODES SHALL BE E70XX.
- ALL STRUCTURAL STEEL SHALL BE SHOP PRIMED EXCEPT THE FOLLOWING:
 - SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES.
 - SURFACES TO BE FIELD WELDED.
- FABRICATOR QUALIFICATIONS: A QUALIFIED FABRICATOR WHO PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY CBD.
- SHOP DRAWINGS DETAILING FABRICATION AND ERECTION OF EACH METAL FABRICATION INDICATED SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO FABRICATION AND CONSTRUCTION.

STEEL CONNECTION NOTES

- STRUCTURAL STEEL CONNECTIONS FOR BEAM-TO-BEAM AND BEAM-TO-COLUMN CONNECTIONS SHALL BE CONSIDERED AS "SIMPLE SHEAR" CONNECTIONS IN ACCORDANCE WITH THE THIRTEENTH EDITION OF AISC'S SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- WHERE CONNECTIONS ARE NOT PROVIDED, DESIGN CONNECTIONS TO RESIST 1/2 WU FROM THE MAXIMUM FACTORED UNIFORM LOAD TABLES OR 1/2 THE TOTAL ALLOWABLE UNIFORM LOAD FROM THE ALLOWABLE UNIFORM LOAD TABLES IN THE THIRTEENTH EDITION OF THE AISC MANUAL.
- ALL CONNECTION DETAILS NOT PROVIDED WITHIN THESE DOCUMENTS SHALL BE DESIGNED BY THE FABRICATOR IN ACCORDANCE WITH THESE NOTES. WHERE DETAIL IS REQUIRED TO SPECIFY FIELD ATTACHMENT, THAT DETAIL SHALL BE PROVIDED ON THE ERECTION DRAWINGS.
- THE FABRICATOR SHALL SUBMIT THE DESIGN CALCULATIONS, STAMPED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT, FOR ANY CONNECTIONS THAT DO NOT COMPLY WITH THE TYPICAL DETAILS SHOWN IN THE AISC MANUAL. THIS INCLUDES CONNECTIONS WITH DIFFERENT ANGLE SIZES, BOLT GAGES, BOLT EDGE DISTANCES, ETC.
- NO SLOTTED HOLES ARE ALLOWED AT CONNECTIONS UNLESS APPROVED FOR SPECIFIC LOCATIONS.
- ALL CONNECTION DETAILS ARE SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.

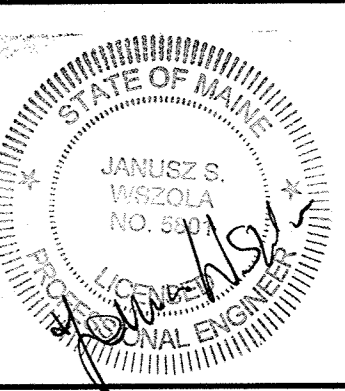
HANDRAIL NOTES

- HANDRAILS SHALL BE 1 1/2" DIA (1.9" OD), ASTM A53, GRADE B PIPE. HORIZONTAL RAILS SHALL BE SCHEDULE 40 AND POSTS SHALL BE SCHEDULE 80. POST SPACING SHALL NOT EXCEED 4'-0" CENTER TO CENTER.
- TOE PLATE SHALL BE 1/4" STEEL PLATE AND SHALL EXTEND 4" ABOVE WALKING SURFACE.
- HANDRAIL AND TOE PLATE CONFIGURATION SHALL MEET OSHA AND NFPA 101 REQUIREMENTS.
- ALL JOINTS AND WELDS SHALL BE GROUND SMOOTH.

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PORTLAND, ME**
**ISSUED FOR PERMIT
1-9-14**
CURRENT ISSUE STATUS:

REV	DESCRIPTION	DATE
0	ISSUED FOR PERMIT	1-9-14

GRAPHIC SCALE:
0" 1"

SCALE: AS NOTED
PROJECT MANAGER: RAB
JC/DRAWN BY: SJF
A/E OF RECORD: JSW
CAD FILE: 13157-SG001
PROJECT NO: 13157
DATE: 1-9-14

SHEET TITLE:
**STRUCTURAL
GENERAL NOTES**

SHEET No.
SG001
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