Date: 04/08/15

GENERAL STRUCTURAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO:
   -IEBC/IBC BUILDING CODE 2009 ED
   -ANSI-ASCE 7-05
   -AISI COLD FORMED STEEL DESIGN MANUAL, 2007
   -ANSI-AF&PA NDS-2005

2. DESIGN LOADS
   2.1. GRAVITY ROOF DESIGN LOADS:
   FLAT ROOF SNOW LOAD — 42 PSF BALANCED DRIFT PER ASCE 7-05
   ROOF DEAD LOAD — 20 PSF

   2.2. LATERAL - WIND: V=98MPH, EXP B, I=1.0, Kd=0.85, Kz=0.71, Kzt=1.0, Qh=15.0 PSF. COMPONENTS AND CLADDING PRESSURES BASED ON ASCE 7-05 AND TRIBUTARY COMPONENT AREA.
   ROOF JOIST NET UPLIFT = 20PSF

   2.3. LATERAL - SEISMIC:
   Ss=0.31, S1=0.078, SITE=D, Fa=1.52, Fv=2.4, Sds=0.314, Sd1=0.125, I=1.0, SDC=B, R= 1.5 OPMSW

3. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CONDITIONS DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS AND ALSO ANY CONDITIONS THAT PREVENT THE CONTRACTOR'S COMPLETION OF THE WORK AS SHOWN ON THE CONSTRUCTION DRAWINGS.

4. ALL WORK SHALL BE PERFORMED BY PERSONS QUALIFIED IN THEIR TRADE AND LICENSED TO PRACTICE SUCH TRADE IN THE STATE IN WHICH THE PROJECT IS LOCATED.

5. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, IN ADDITION TO SPECIFICATIONS AND ANY SHOP DRAWINGS PROVIDED BY SUBCONTRACTORS AND SUPPLIERS.

7. ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR (G.C.) AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

8. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS, AND NOTES SHOWN ON ANY DRAWING SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR DETAILS.

9. ALL SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION OF MATERIAL OR THE PURCHASE OF NON-RETURNABLE STOCK. DIMENSIONAL REVIEW IS THE CONTRACTOR'S RESPONSIBILITY.

10. THE PROPOSED WORK IS CLASSIFIED AS A REPAIR TO "LESS THAN SUBSTANTIAL STRUCTURAL DAMAGE" PER IEBC 2009 SECT 304.4. AS SUCH, THE REPAIRS ARE ALLOWED TO RESTORE THE BUILDING TO IT'S "PRE-DAMAGED STATE" USING SIMILAR CONSTRUCTION AND MATERIALS. ALL NEW STRUCTURAL ELEMENTS (REPLACEMENT LVLS, DECKING, AND CONNECTIONS) ARE TO CONFORM WITH THE APPLICABLE SECTIONS OF THE 2009 IBC CODE.

WOOD FRAMING NOTES

1. STRUCTURAL LUMBER: No. 2 SPRUCE-PINE-FIR OR BETTER
   LAMINATED VENEER LUMBER (LVL) BY BOISE:
   BEAMS: 3100Fb VERSA-LAM
   COLUMNS: 2650 Fb VERSA-LAM
2. DESIGN CODES:
   A. NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
3. FASTENERS: COMPLY WITH RECOMMENDED FASTENING SCHEDULE TABLE 2304.9.1 OF THE IBC BUILDING CODE, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
4. ALL NAILS TO SIMPSON PRODUCTS AND PT LUMBER TO BE G90 HOT DIP GALVANIZED 0.162"Ø COMMON BOX NAILS, OR AS RECOMMENDED BY SIMPSON.
5. ALL SIMPSON PRODUCTS IN CONTACT WITH PT LUMBER TO BE "ZMAX" (G185 GALVANIZED) COATED.

STRUCTURAL STEEL NOTES

PART 1 - GENERAL

1.00 STANDARD SPECIFICATIONS

A. FABRICATION, ERECTION, AND WELDING; IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN ADOPTED JUNE 1989, INCLUDING ALL PUBLISHED SUPPLEMENTS. A.I.S.C.

B. WELDING--IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE", AWS D1.1, LATEST EDITION.

C. BOLTING OF STRUCTURAL JOINTS SHALL BE IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", LATEST EDITION.

1.01 QUALIFICATIONS

A. WELDING PROCEDURES, WELDERS, WELDING OPERATIONS AND TACKING: QUALIFIED IN ACCORDANCE WITH AWS CODE.

1.02 SUBMITTALS

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1.03 PRODUCT HANDLING

A. STORE STRUCTURAL STEEL MEMBERS AT THE PROJECT SITE ABOVE GROUND ON PLATFORMS, SKIDS, OR OTHER SUPPORTS.

B. PROTECT STEEL FROM CORROSION.

PART 2 - PRODUCTS

2.01 MATERIALS

A. STEEL W AND C SHAPES - ATSM A992.
B. STEEL BARS, PLATES, ANGLES - ASTM A36.
C. STRUCTURAL TUBES AND COLUMNS - ASTM A500-46, GRADE B.
D. STRUCTURAL PIPE - ASTM A53, TYPE E, GRADE B, SCHEDULE 40.
E. HIGH STRENGTH BOLTS ¾" ASTM A-325, TYPE 1 OR 2.
F. ANCHOR BOLTS - ASTM A-307, GRADE A.
G. THREADED ROD - ASTM A36.
H. WELDING TO BE PERFORMED WITH 70 ksi WIRE OR ELECTRODES.

PART 3 - EXECUTION

3.01 FABRICATION

A. FABRICATE STRUCTURAL STEEL IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND THIS SECTION OF THE SPECIFICATIONS.

3.02 ERECTION

A. THE STRUCTURAL METAL SHALL BE ERECTED PLUMB AND TRUE TO THE LINES AND EVALUATIONS INDICATED ON THE DRAWINGS.

B. ERECTION TOLERANCES SHALL BE WITHIN THE LIMITS SPECIFIED IN SECTION 7.11 OF THE "AISC CODE OF STANDARD PRACTICE".

C. TEMPORARY CONNECTIONS SHALL BE ADEQUATE TO SAFELY SUPPORT ALL DEAD LOAD AND ERECTION IMPOSED STRESSES.

D. TEMPORARY BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO HOLD THE STEEL IN A HORIZONTAL AND VERTICAL PLANE UNTIL PERMANENT BOLTING HAS BEEN COMPLETED.

E. BOLTS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND BROUGHT TO "SNUG TIGHT" CONDITION. ALL PLIES OF JOINT IN FIRM CONTACT, IN ACCORDANCE WITH SECTION 8u (C) OF THE BOLT SPECIFICATION OF SECTION 1.01 C OF THIS SPECIFICATION.

F. ENLARGEMENT OF HOLES BY BURNING WITH A TORCH SHALL NOT BE ALLOWED. ALL STEEL WITH BURNT HOLE ENLARGEMENTS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

3.03 PAINTING

A. SHOP PAINT PREPARED SURFACES OF ALL STEEL WORK WITH FABRICATOR'S STANDARD RUST INHIBITIVE PAINT, MINIMUM 2.0 MIL THICKNESS, COMPATIBLE WITH BASE COAT.

B. SURFACE PREPARE ALL FABRICATED STEEL TO RECEIVE SHOP PRIME (ONLY), TO A MINIMUM OF HAND TOOL CLEAN OR EQUIVALENT AS DICTATED BY CONDITION OF PRODUCT AT TIME OF PAINTING.

A3 NOTES

C2 DETAIL - COLUMN BRACING (4 LOCATIONS)
SCALE: 3/16"= 1'-0"

C1 SECTION AT NEW COLUMN (4 LOCATIONS)
SCALE: ¼"= 1'-0"

B2

B1 DETAIL - (2) LOCATIONS AT STUB COLUMNS
SCALE: 1½"= 1'-0"

A2

A1 DETAIL AT BEAM BRACING
SCALE: NTS

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PROJECT: 52 CANCO RD.
PORTLAND, MAINE
FOR:
PROPERTY OWNER: GILBERT CONGDON 141 PROSPECT STREET PORTLAND, ME 04103
SHEET TITLE: DETAILS - CODE UPGRADES ISSUED FOR PERMITTING

REVISIONS

No.	BY	DESCRIPTION	DATE
1			
2			
3			
4			
5			
6			
7			
8			

DATE : 4-6-15
SCALE : AS NOTED
DESIGN BY: ASW
DRAWN BY: RSC
FILE #: 15040-A101.DWG
PROJECT NUMBER: 15040
SHEET NO: S102