FOLLETT CORPORATION

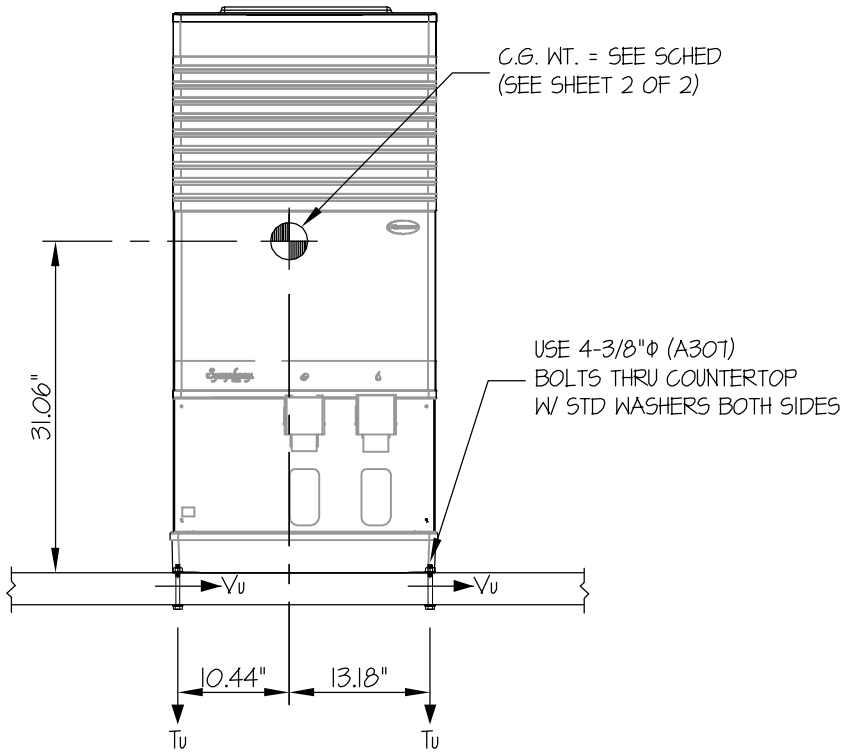
110 CT/CR/CM 425 A/W COUNTERTOP DISPENSERS

DES.	J. ROBERSON
JOB NO.	11-1420
DATE	6/12/14

SHEET 1 OF 2 SHEETS

SEISMIC ANCHORAGE

COUNTERTOP MOUNTED



FRONT ELEVATION

NOTES:

1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED.

   HORIZONTAL FORCE (E_h) = 1.80 W_p (S_{DS} = 2.5, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)
   VERTICAL FORCE (E_v) = 0.50 W_p

2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THESE CALCULATIONS ENCOMPASS ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2016
STRUCTURAL
STATE OF CALIFORNIA
6/12/14

FOLLETT CORPORATION

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DES.	J. ROBERSON
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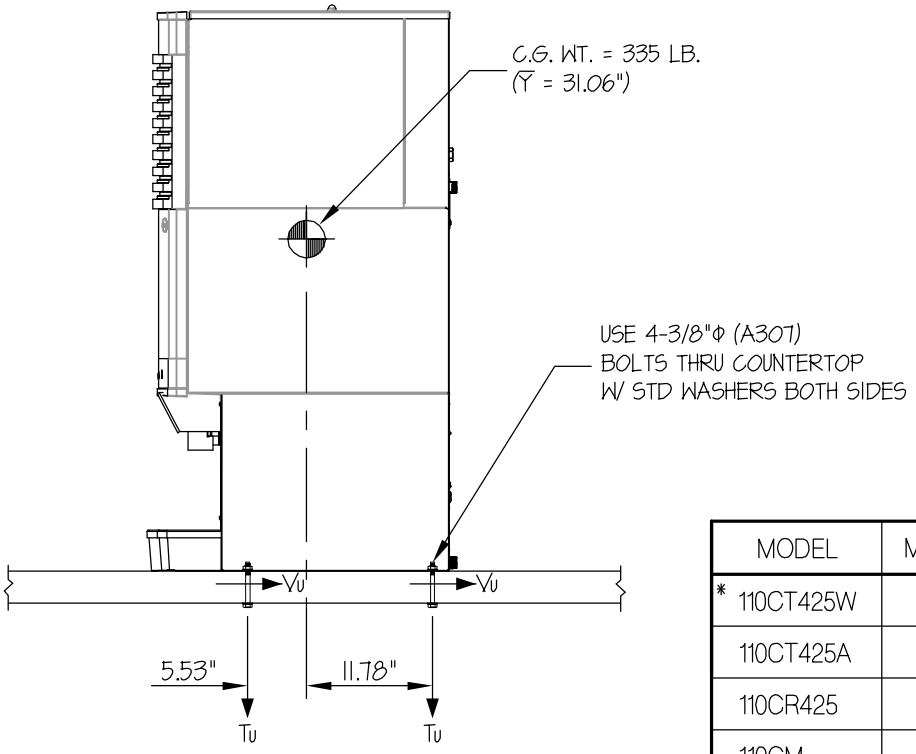
SHEET 2 OF 2 SHEETS

SEISMIC ANCHORAGE

COUNTERTOP MOUNTED



SIDE ELEVATION

MODEL	MAX WT	Tu	Vu
* 110CT425W	335#	715#	205#
110CT425A	330#	704#	202#
110CR425	244#	521#	149#
110CM	244#	521#	149#

* USED IN CALCULATION

LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.
STRENGTH DESIGN IS USED (S_{DS} = 2.5, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)

WEIGHT = 335 LB

HORIZONTAL FORCE (E_h) = 1.80 W_p = 603 LB

VERTICAL FORCE (E_v) = 0.50 W_p = 168 LB

BOLT SPEC: 3/8"φ (A307) BOLTS

φT= 3589 LB/BOLT

φV= 1914 LB/BOLT

BOLT FORCES:

TENSION (T)

$$T_{u\ MAXIMUM} = \left[\frac{603\#(31.06'')(11.78'')}{1\ BOLT\ (23.62'')(17.31'')} \times (0.3)\right] + \frac{603\#(31.06'')(13.18'')}{1\ BOLT\ (17.31'')(23.62'')} - \frac{(335\#(0.9) - 168\#)(13.18'')(11.78'')}{1\ BOLT\ (23.62'')(17.31'')} = 715\ LB/BOLT\ (MAX)$$

(HORIZ. - SIDE TO SIDE) (HORIZ. - FRONT TO BACK) (0.9(WEIGHT) - E_v)

SHEAR (V)

$$V_{u\ MAXIMUM} = \frac{603\#(11.78'')}{2\ BOLTS(17.31'')} = 205\ LB/BOLT\ (MAX)$$