SCOTSMAN ICE SYSTEM

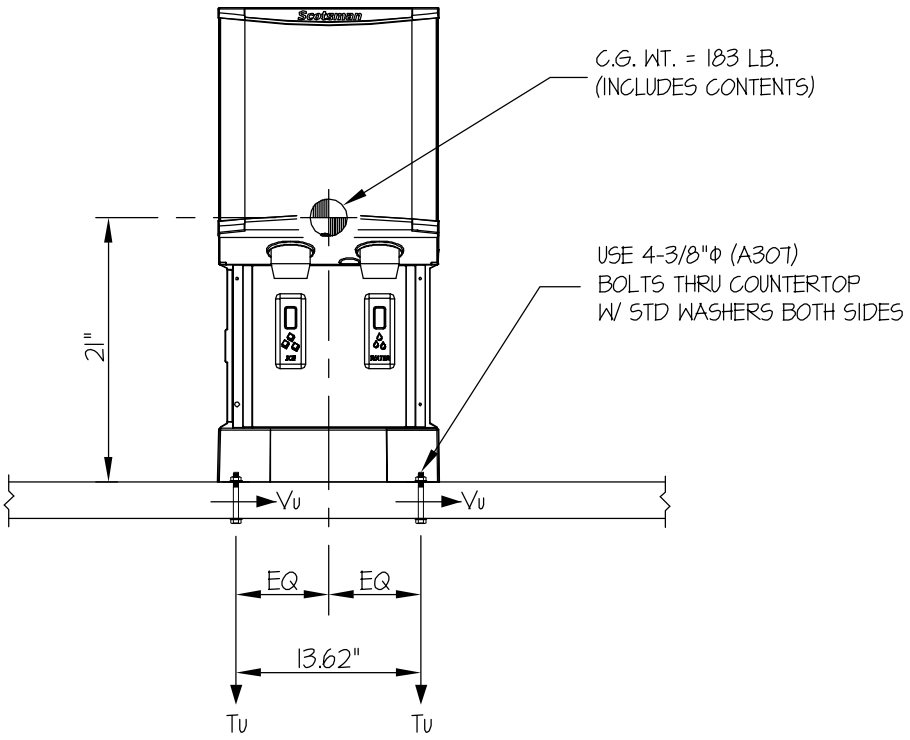
HID312 ICE MACHINE (COUNTERTOP MOUNTED)

DES.	J. ROBERSON
JOB NO.	11-1508
DATE	4/13/15

SHEET 1 OF 2 SHEETS

SEISMIC ANCHORAGE

COUNTERTOP MOUNTED



Tu = 291 LB/BOLT (MAX)
Vu = 82 LB/BOLT (MAX)

FRONT ELEVATION

NOTES:

1. **FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10**
   STRENGTH DESIGN IS USED. (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)
   HORIZONTAL FORCE (E_h) = 1.58 W_p
   VERTICAL FORCE (E_v) = 0.44 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
4/13/15
STRUCTURAL
STATE OF CALIFORNIA

SCOTSMAN ICE SYSTEM

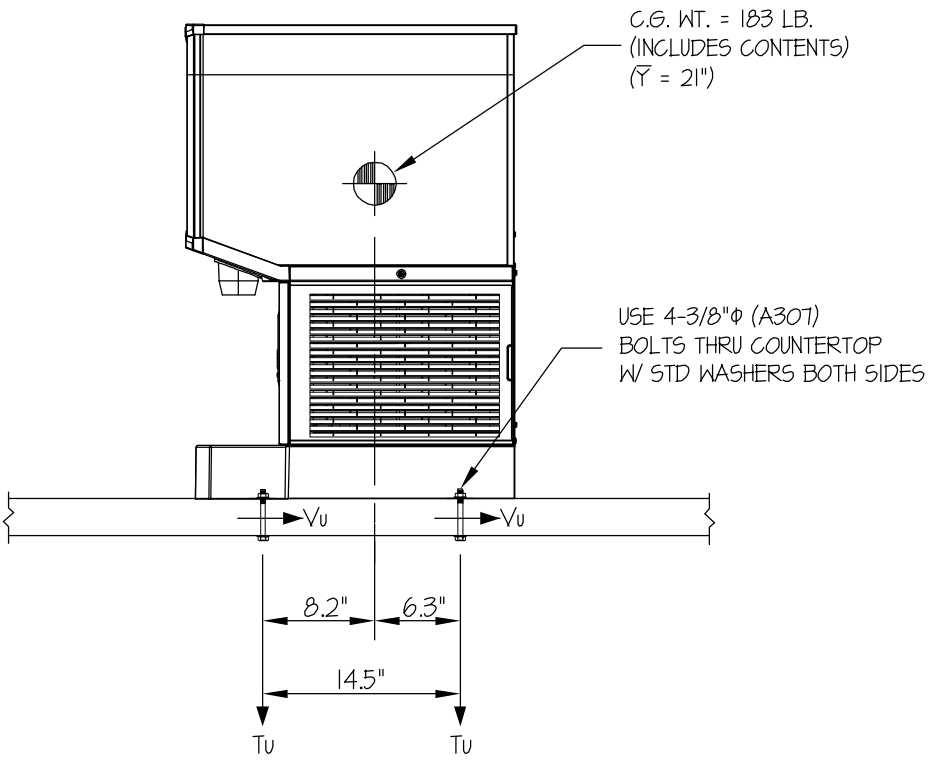
HID312 ICE MACHINE (COUNTERTOP MOUNTED)

DES.	J. ROBERSON
JOB NO.	11-1508
DATE	4/13/15

SHEET 2 OF 2 SHEETS

SEISMIC ANCHORAGE

COUNTERTOP MOUNTED



SIDE ELEVATION

LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.
STRENGTH DESIGN IS USED (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h ≤ 1)

WEIGHT = 183 LB

HORIZONTAL FORCE (E_h) = 1.58W_p = 289 LB

VERTICAL FORCE (E_v) = 0.44W_p = 81 LB

BOLT SPEC: 3/8"ϕ (A307) BOLTS

ϕT= 3355 LB/BOLT

ϕV= 1723 LB/BOLT

BOLT FORCES:

TENSION (T)

$$T_{u\ MAXIMUM} = \left[\frac{289\#(21'')}{2\ BOLTS(14.5'')} \times (0.3)\right] + \frac{289\#(21'')(8.2'')}{2\ BOLTS(13.62'')(14.5'')} - \frac{(183\#(0.9) - 81\#)(8.2'')}{2\ BOLTS(14.5'')} = 291\ LB/BOLT\ (MAX)$$

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

SHEAR (V)

$$V_{u\ MAXIMUM} = \frac{289\#(8.2'')}{2\ BOLTS(14.5'')} = 82\ LB/BOLT\ (MAX)$$

EASE

EQUIPMENT **ANCHORAGE** & SEISMIC ENGINEERING
www.EquipmentAnchorage.com

SCOTSMAN ICE SYSTEM

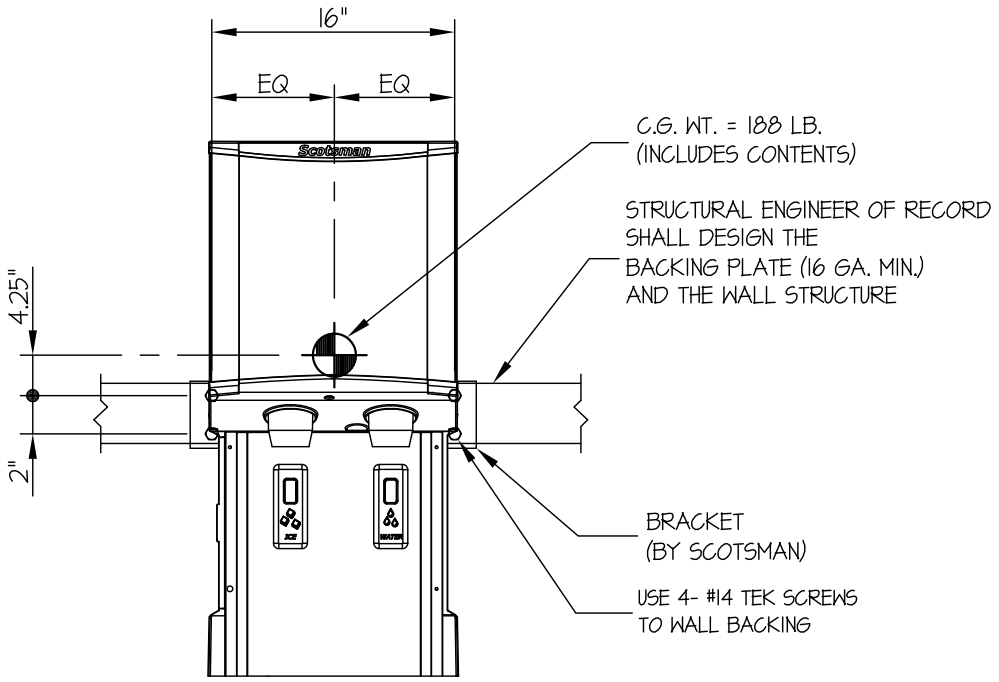
HID312 ICE MACHINE (WALL MOUNTED)

DES.	J. ROBERSON
JOB NO.	11-1508
DATE	4/13/15

SHEET 1 OF 2 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



T_u = 237 LB/SCREW (MAX)
V_u = 107 LB/SCREW (MAX)

FRONT ELEVATION

NOTES:

1. **FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10**

   STRENGTH DESIGN IS USED. (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)

   HORIZONTAL FORCE (E_h) = 1.58 W_p
   VERTICAL FORCE (E_v) = 0.44 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.

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No. 4197
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SCOTSMAN ICE SYSTEM

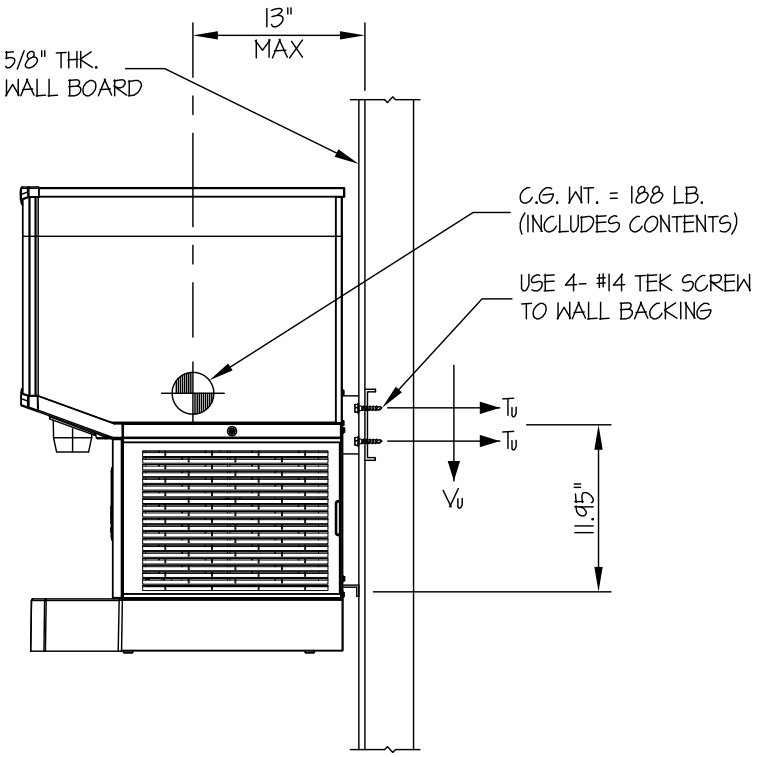
HID312 ICE MACHINE (WALL MOUNTED)

DES. J. ROBERSON
JOB NO. 11-1508
DATE 4/13/15

SHEET 2 OF 2 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



STEEL STUD WALL SECTION

LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.
STRENGTH DESIGN IS USED (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h ≤ 1)
WEIGHT = 188 LB
HORIZONTAL FORCE (E_h) = 1.58W_p = 297 LB
VERTICAL FORCE (E_v) = 0.44W_p = 83 LB

BOLT FORCES:

TENSION (T)

$$T_{U\ VERTICAL} = \frac{(188\#(1.2) + 83\#)(13'')}{4\ SCREWS(11.95'')} = 84\ LB/SCREW$$

$$T_{U\ PARALLEL} = \frac{297\#(13'')}{2\ SCREWS(16'')} = 121\ LB/SCREW$$

$$T_{U\ PERP.} = \frac{297\#(17.2'')}{4\ SCREWS\ (11.95'')} = 107\ LB/SCREW$$

$$T_{U\ MAX} = 84\# + 121\# + 0.3(107\#) = 237\ LB/SCREW\ (MAX)$$

SHEAR (V)

$$V_{U\ MAX} = \sqrt{\left(\frac{(1.2(188\#) + 83\#)}{4\ SCREWS}\right)^2 + \left(\frac{297\#}{4\ SCREWS}\right)^2} = 107\ LB/SCREW\ (MAX)$$

#14 TEK SCREWS TO 16 GAGE, 50 KSI

ϕT= 418 LB/SCREW (TENSION)
ϕV= 362 LB/SCREW (SHEAR)

EASE

EQUIPMENT **ANCHORAGE** & SEISMIC ENGINEERING
www.EquipmentAnchorage.com

SCOTSMAN ICE SYSTEM

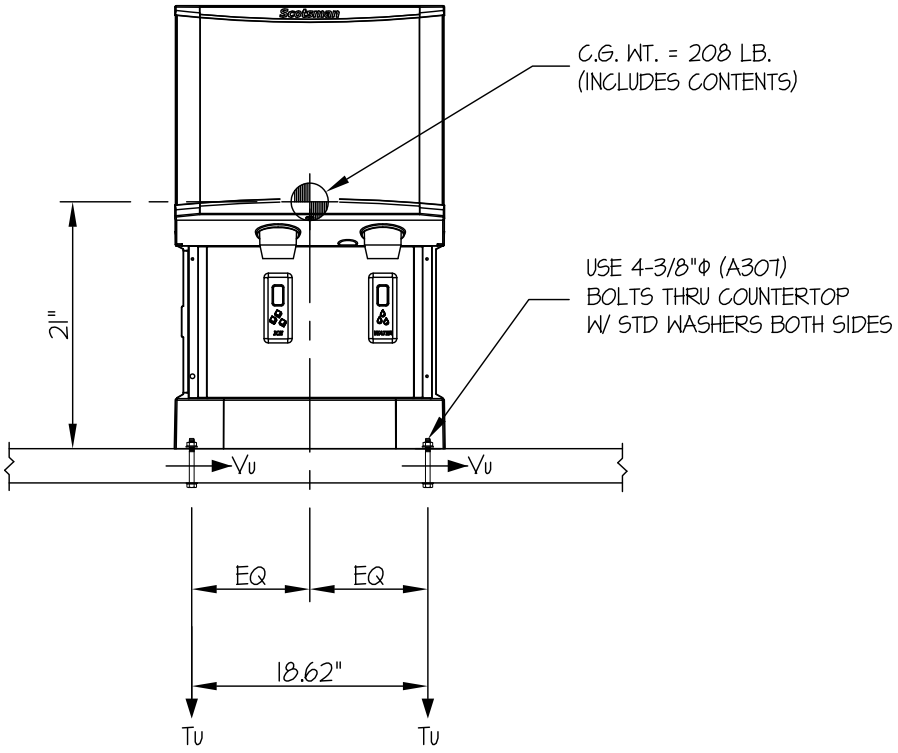
HID525 ICE MACHINE (COUNTERTOP MOUNTED)

DES.	J. ROBERSON
JOB NO.	11-1508
DATE	4/13/15

SHEET 1 OF 2 SHEETS

SEISMIC ANCHORAGE

COUNTERTOP MOUNTED



FRONT ELEVATION

T_u = 274 LB/BOLT (MAX)
V_u = 93 LB/BOLT (MAX)

NOTES:

1. **FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10**
   STRENGTH DESIGN IS USED. (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)
   HORIZONTAL FORCE (E_h) = 1.58 W_p
   VERTICAL FORCE (E_v) = 0.44 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
4/13/15
STRUCTURAL
STATE OF CALIFORNIA

SCOTSMAN ICE SYSTEM

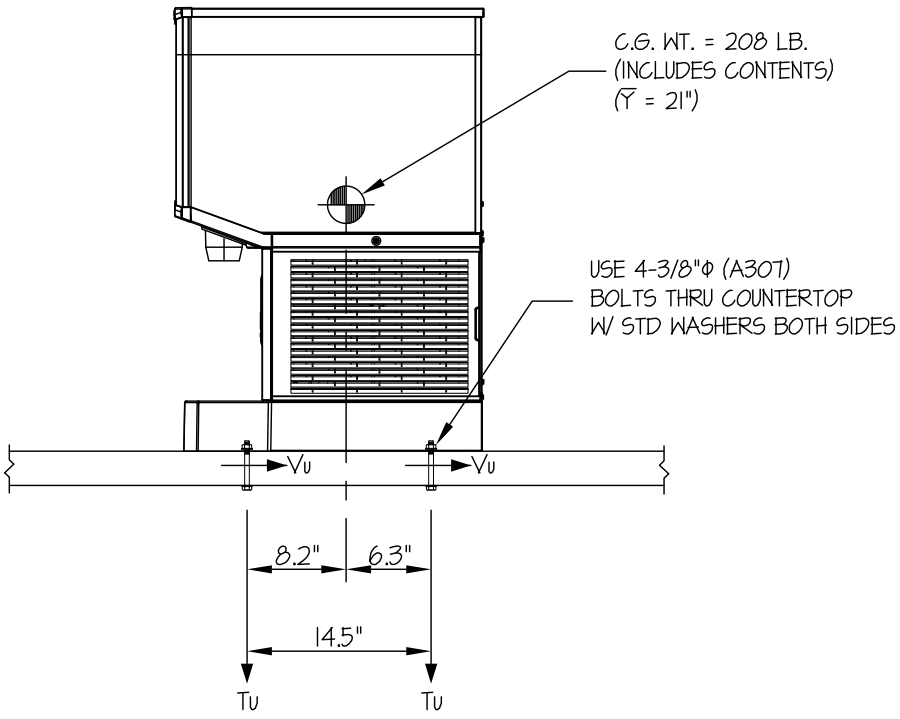
HID525 ICE MACHINE (COUNTERTOP MOUNTED)

DES.	J. ROBERSON
JOB NO.	11-1508
DATE	4/13/15

SHEET 2 OF 2 SHEETS

SEISMIC ANCHORAGE

COUNTERTOP MOUNTED



SIDE ELEVATION

LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.
STRENGTH DESIGN IS USED (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h ≤ 1)

WEIGHT = 208 LB

HORIZONTAL FORCE (E_h) = $1.58W_p$ = 329 LB

VERTICAL FORCE (E_v) = $0.44W_p$ = 92 LB

BOLT SPEC: 3/8"ϕ (A307) BOLTS

ϕT= 3355 LB/BOLT

ϕV= 1723 LB/BOLT

BOLT FORCES:

TENSION (T)

$$T_{u\ MAXIMUM} = \left[\frac{329\#(21'')(8.2'')}{1\ BOLT\ (18.62'')(14.5'')} \times (0.3)\right] + \frac{329\#(21'')}{2\ BOLTS\ (14.5'')} - \frac{(208\#(0.9) - 92\#)(8.2'')}{2\ BOLTS\ (14.5'')} = 274\ LB/BOLT\ (MAX)$$

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

SHEAR (V)

$$V_{u\ MAXIMUM} = \frac{329\#(8.2'')}{2\ BOLTS(14.5'')} = 93\ LB/BOLT\ (MAX)$$

EASE

EQUIPMENT **ANCHORAGE** & SEISMIC ENGINEERING
www.EquipmentAnchorage.com

SCOTSMAN ICE SYSTEM

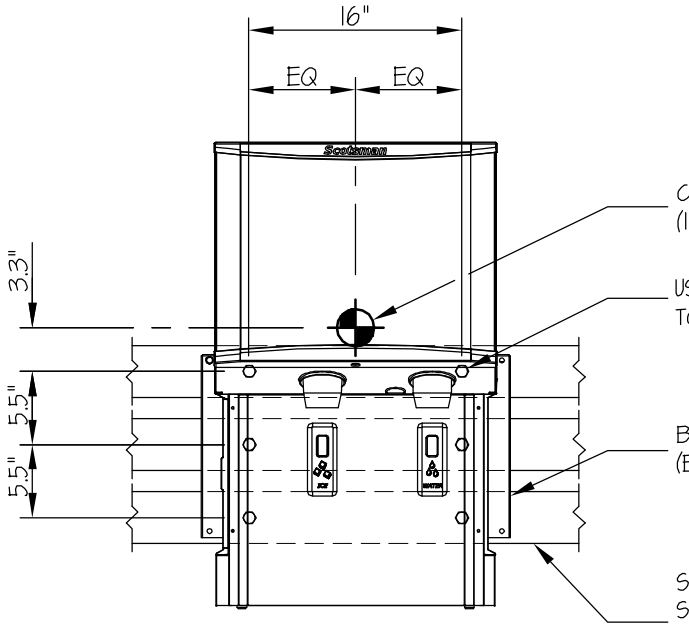
HID525 ICE MACHINE (WALL MOUNTED)

DES.	J. ROBERSON
JOB NO.	11-1508
DATE	4/22/15

SHEET 1 OF 2 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



T_u = 586 LB/BOLT (MAX)
V_u = 227 LB/BOLT (MAX)

FRONT ELEVATION

NOTES:

1. **FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10**

   STRENGTH DESIGN IS USED. (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)

   HORIZONTAL FORCE (E_h) = 1.58 W_p
   VERTICAL FORCE (E_v) = 0.44 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.

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REGISTERED PROFESSIONAL ENGINEER
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No. 4197
EXP. 6-30-2016
STRUCTURAL
STATE OF CALIFORNIA
4/22/15

SCOTSMAN ICE SYSTEM

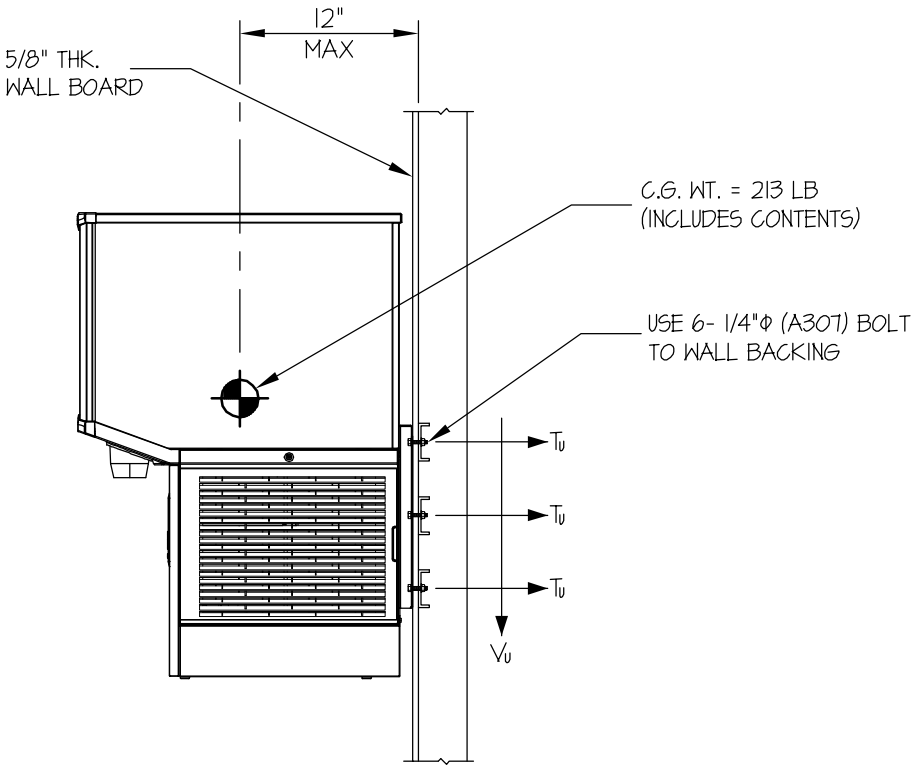
HID525 ICE MACHINE (WALL MOUNTED)

DES.	J. ROBERSON
JOB NO.	11-1508
DATE	4/22/15

SHEET 2 OF 2 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



SIDE ELEVATION

LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.
STRENGTH DESIGN IS USED (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h ≤ 1)
WEIGHT = 213 LB
HORIZONTAL FORCE (E_h) = 1.58W_p = 337 LB
VERTICAL FORCE (E_v) = 0.44W_p = 94 LB

BOLT FORCES:

TENSION (T)

$$T_{U\ VERTICAL} = \frac{(213\#(1.2) + 94\#)(12'')}{2\ BOLTS\ (11'')} = 191\ LB/BOLT$$

$$T_{U\ PARALLEL} = \frac{337\#(12'')(14.3'')}{1\ BOLT\ (16'')(11'')} = 329\ LB/BOLT$$

$$T_{U\ PERP.} = \frac{337\#(14.3'')}{2\ BOLTS\ (11'')} = 219\ LB/BOLT$$

$$T_{U\ MAX} = 191\# + 329\# + 0.3(219\#) = 586\ LB/BOLT\ (MAX)$$

SHEAR (V)

$$V_{U\ MAX} = \sqrt{\left(\frac{(1.2(213\#) + 94\#)}{6\ BOLTS}\right)^2 + \left(\frac{337\#(14.3'')}{2\ BOLTS\ (11'')}\right)^2} = 227\ LB/BOLT\ (MAX)$$

BOLT SPEC: 1/4"ϕ (A307) BOLTS

ϕT= 1491 LB/BOLT
ϕV= 807 LB/BOLT

SCOTSMAN ICE SYSTEM

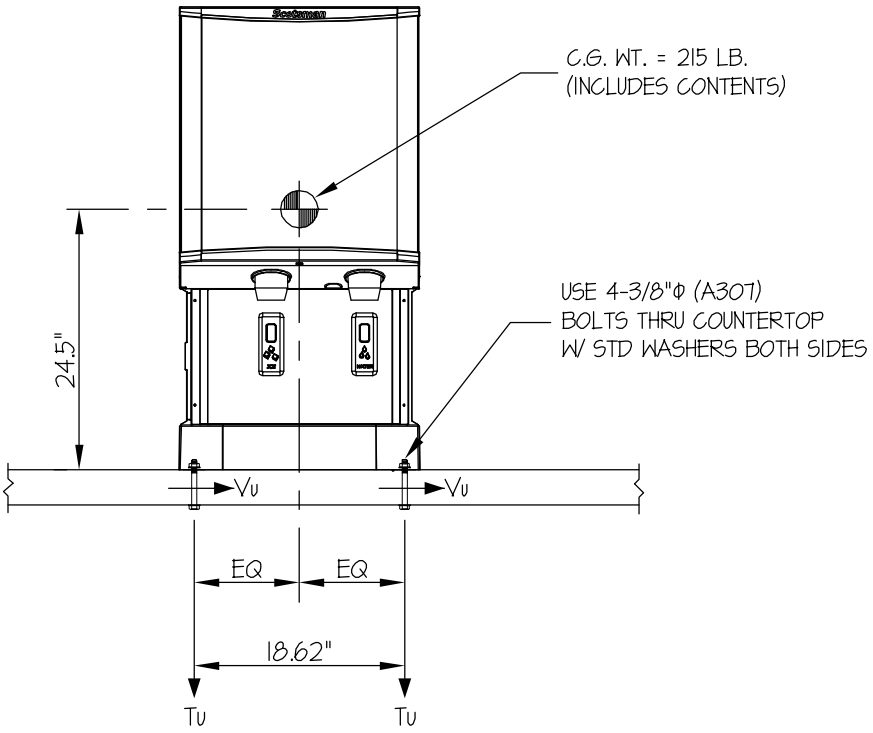
HID540 ICE MACHINE (COUNTERTOP MOUNTED)

DES.	J. ROBERSON
JOB NO.	11-1508
DATE	4/13/15

SHEET 1 OF 2 SHEETS

SEISMIC ANCHORAGE

COUNTERTOP MOUNTED



T_u = 335 LB/BOLT (MAX)
V_u = 96 LB/BOLT (MAX)

FRONT ELEVATION

NOTES:

1. **FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10**
   STRENGTH DESIGN IS USED. (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)
   HORIZONTAL FORCE (E_h) = 1.58 W_p
   VERTICAL FORCE (E_v) = 0.44 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.
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REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2016
4/13/15
STRUCTURAL
STATE OF CALIFORNIA

SCOTSMAN ICE SYSTEM

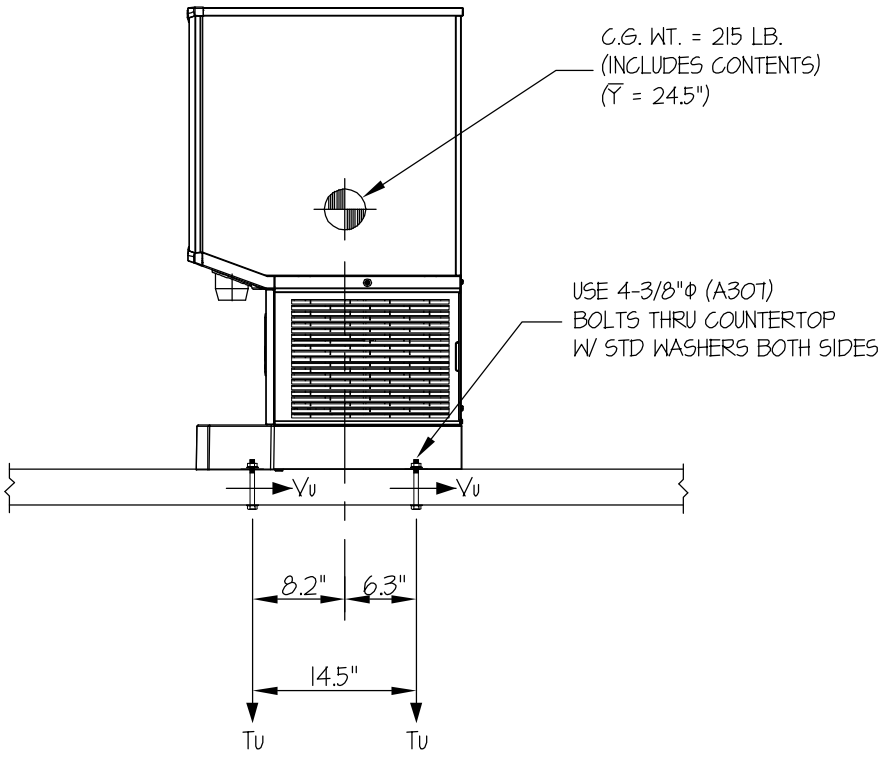
HID540 ICE MACHINE (COUNTERTOP MOUNTED)

DES.	J. ROBERSON
JOB NO.	11-1508
DATE	4/13/15

SHEET 2 OF 2 SHEETS

SEISMIC ANCHORAGE

COUNTERTOP MOUNTED



SIDE ELEVATION

LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.
STRENGTH DESIGN IS USED (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h ≤ 1)

WEIGHT = 215 LB

HORIZONTAL FORCE (E_h) = 1.58W_p = 340 LB

VERTICAL FORCE (E_v) = 0.44W_p = 95 LB

BOLT SPEC: 3/8"ϕ (A307) BOLTS

ϕT= 3355 LB/BOLT

ϕV= 1723 LB/BOLT

BOLT FORCES:

TENSION (T)

$$T_{u\ MAXIMUM} = \left[\frac{340\#(24.5'')(8.2'')}{1\ BOLT\ (18.62'')(14.5'')} \times (0.3)\right] + \frac{340\#(24.5'')}{2\ BOLTS\ (14.5'')} - \frac{(215\#(0.9) - 95\#)(8.2'')}{2\ BOLTS\ (14.5'')} = 335\ LB/BOLT\ (MAX)$$

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

SHEAR (V)

$$V_{u\ MAXIMUM} = \frac{340\#(8.2'')}{2\ BOLTS\ (14.5'')} = 96\ LB/BOLT\ (MAX)$$

EASE

EQUIPMENT **ANCHORAGE** & SEISMIC ENGINEERING
www.EquipmentAnchorage.com

SCOTSMAN ICE SYSTEM

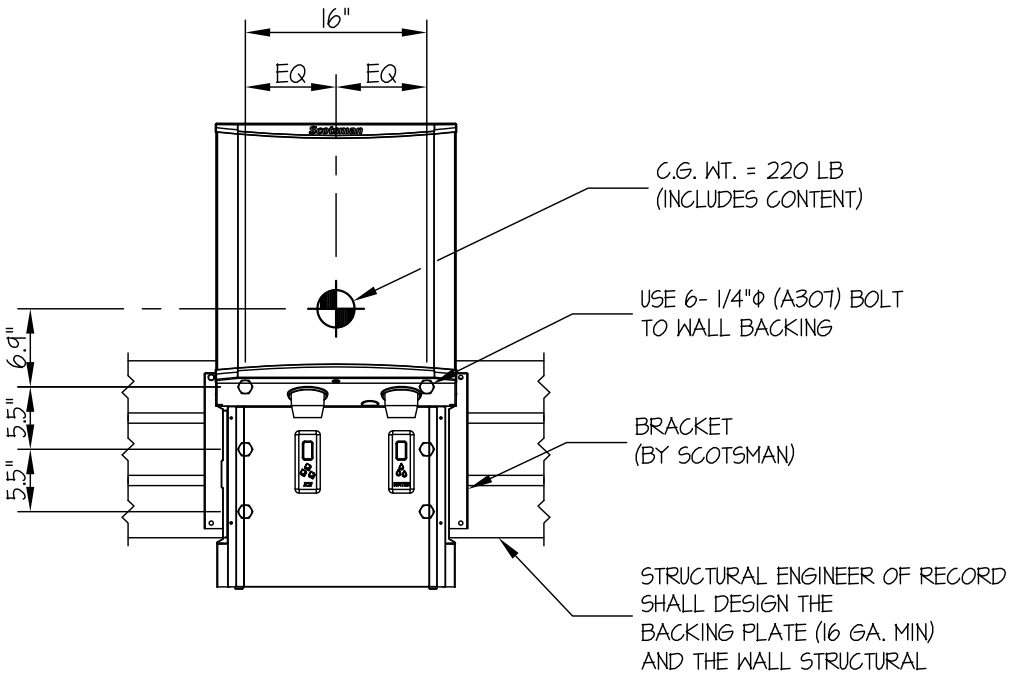
HID540 ICE MACHINE (WALL MOUNTED)

DES.	J. ROBERSON
JOB NO.	11-1508
DATE	4/22/15

SHEET 1 OF 2 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



T_u = 707 LB/BOLT (MAX)
V_u = 290 LB/BOLT (MAX)

FRONT ELEVATION

NOTES:

1. **FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10**

   STRENGTH DESIGN IS USED. (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)

   HORIZONTAL FORCE (E_h) = 1.58 W_p
   VERTICAL FORCE (E_v) = 0.44 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.

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REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2016
4/22/15
STRUCTURAL
STATE OF CALIFORNIA

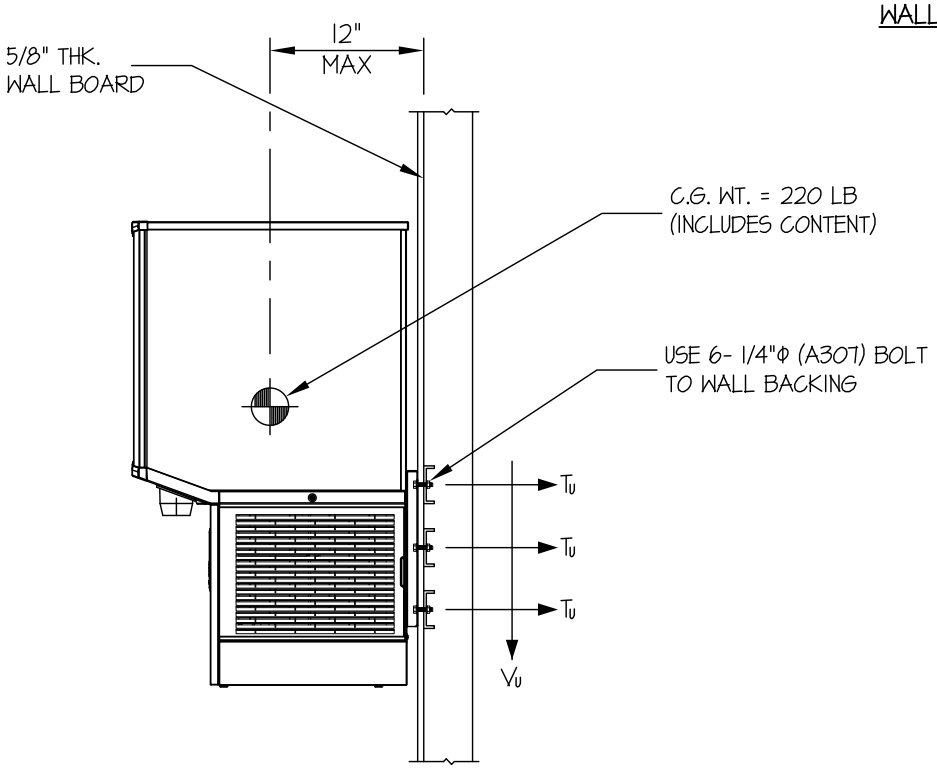
SCOTSMAN ICE SYSTEM

HID540 ICE MACHINE (WALL MOUNTED)

DES. J. ROBERSON
JOB NO. 11-1508
DATE 4/22/15
SHEET 2 OF 2 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



SIDE ELEVATION

LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.
STRENGTH DESIGN IS USED (S_{DS} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)
WEIGHT = 220 LB
HORIZONTAL FORCE (E_h) = $1.58W_p$ = 348 LB
VERTICAL FORCE (E_v) = $0.44W_p$ = 97 LB

BOLT SPEC: 1/4"ϕ (A307) BOLTS
ϕT= 1491 LB/BOLT
ϕV= 766 LB/BOLT

BOLT FORCES:

TENSION (T)

$$T_{U\ VERTICAL} = \frac{(220\#(1.2) + 97\#)(12'')}{2\ \text{BOLTS}\ (11'')} = 197\ \text{LB/BOLT}$$

$$T_{U\ PARALLEL} = \frac{348\#(12'')(17.9'')}{1\ \text{BOLT}\ (16'')(11'')} = 425\ \text{LB/BOLT}$$

$$T_{U\ PERP.} = \frac{348\#(17.9'')}{2\ \text{BOLTS}\ (11'')} = 283\ \text{LB/BOLT}$$

$$T_{U\ MAX} = 197\# + 425\# + 0.3(283\#) = 707\ \text{LB/BOLT (MAX)}$$

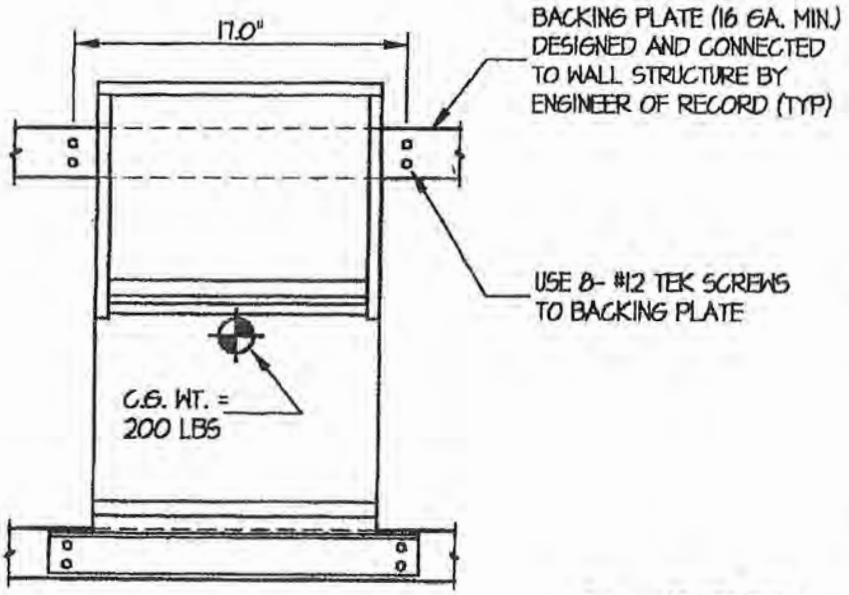
SHEAR (V)

$$V_{U\ MAX} = \sqrt{\left(\frac{(1.2(220\#) + 97\#)}{6\ \text{BOLTS}}\right)^2 + \left(\frac{348\#(17.9'')}{2\ \text{BOLTS}\ (11'')}\right)^2} = 290\ \text{LB/BOLT (MAX)}$$

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING		
SCOTSMAN EQUIPMENT ANCHORAGE	DES. R. LA BRIE	SHEET 1
MODEL MDT3F12 AND MDT4F12 ICE DISPENSERS	JOB 11-0124	
	DATE 6/20/01	OF 1 SHEET

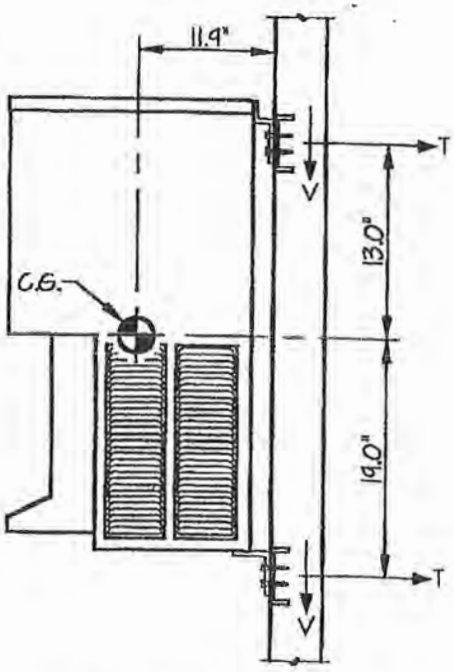
SEISMIC ANCHORAGE

WALL MOUNTED



FRONT ELEVATION

T_{MAX} = 48 LBS/BOLT
V_{MAX} = 56 LBS/BOLT



SIDE ELEVATION

LOADS: PER 1998 CALIFORNIA BUILDING CODE - SECTION 1632A
WEIGHT = 200 LBS
HORIZONTAL FORCE (V_H) = 0.94W = 188 LBS
VERTICAL FORCE (V_V) = 0.33(V_H) = 63 LBS

BOLT FORCES:

TENSION (T)

$$T = \frac{188\#}{8\ \text{SCREWS}} + \frac{(200\# + 63\#)11.9"}{4\ \text{SCREWS}\ (32.0")} = 48\ \text{LBS/SCREW (MAX)}$$

SHEAR (V)

$$V = \frac{188\#}{8\ \text{SCREWS}} + \frac{200\# + 63\#}{8\ \text{SCREWS}} = 56\ \text{LBS/SCREW (MAX)}$$

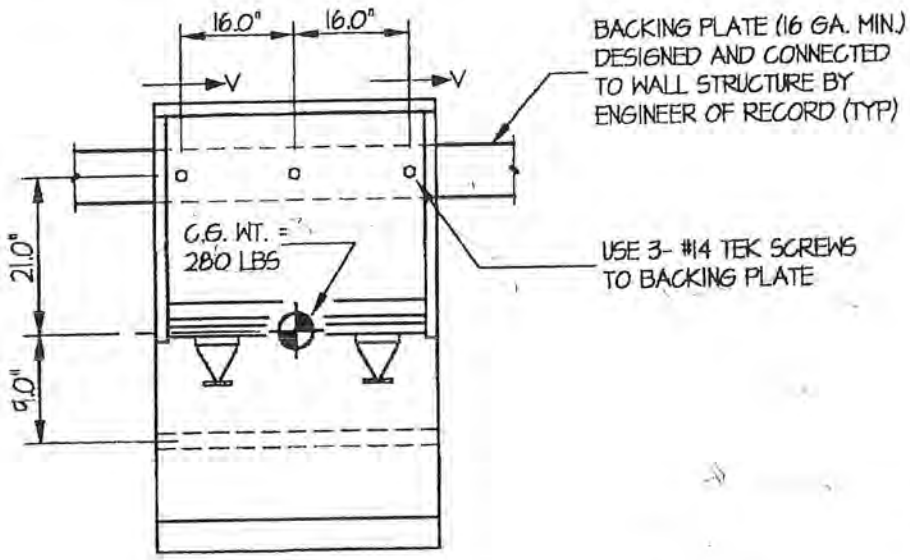
REGISTERED PROFESSIONAL ENGINEER
JAMES H. THOMPSON
No. 1368
6-22-01
STRUCTURAL
STATE OF CALIFORNIA
License fee due 3-31-2005

NOTE:
PROVIDE WALL STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.
(BY ENGINEER OF RECORD FOR THE BUILDING)

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING		
SCOTSMAN EQUIPMENT ANCHORAGE	DES. R. LA BRIE	SHEET 1
	JOB 11-0124	
MODEL MDT5N25 ICE SYSTEM	DATE 6/20/01	OF 1 SHEET

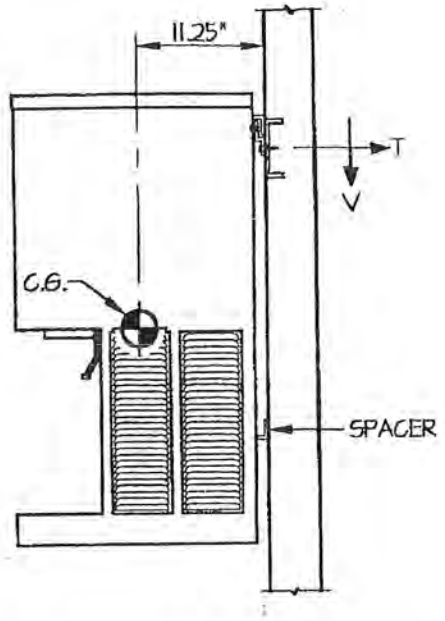
SEISMIC ANCHORAGE

WALL MOUNTED



FRONT ELEVATION

T_{MAX} = 138 LBS/BOLT
V_{MAX} = 295 LBS/BOLT



SIDE ELEVATION

LOADS: PER 1998 CALIFORNIA BUILDING CODE - SECTION 1632A

WEIGHT = 280 LBS

HORIZONTAL FORCE (V_H) = 0.94W = 263 LBS

VERTICAL FORCE (V_V) = 0.33(V_H) = 88 LBS

BOLT FORCES:

TENSION (T)

$$T = \frac{(280\# + 88\#)11.25"}{3_{SCREWS}(30.0")} + \frac{263\#(11.25")}{32.0"} = 138 \text{ LBS/SCREW (MAX)}$$

SHEAR (V)

$$V = \frac{280\# + 88\#}{3_{SCREWS}} + \frac{263\#(21.0")}{32"} = 295 \text{ LBS/SCREW (MAX)}$$

REGISTERED PROFESSIONAL ENGINEER
JAMES H. THOMPSON
No. 1369
6-20-01
STRUCTURAL
STATE OF CALIFORNIA
License fee due 3-31-2005

NOTE:
PROVIDE WALL STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.
(BY ENGINEER OF RECORD FOR THE BUILDING)

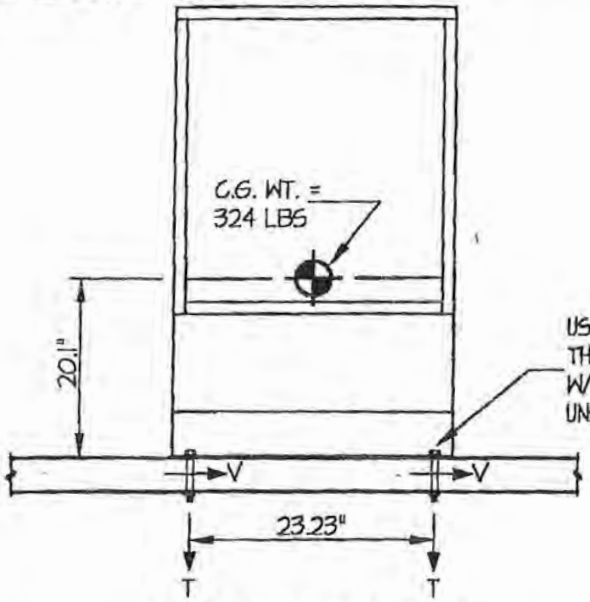
EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

SCOTSMAN EQUIPMENT ANCHORAGE

MDT5N40 AIR AND WATER NUGGET ICE MAKER/DISPENSER

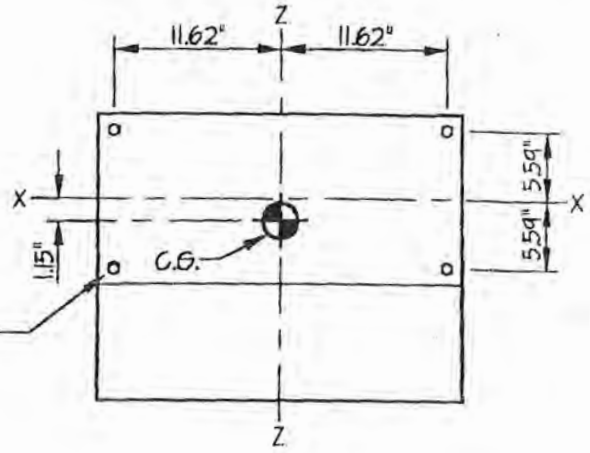
DES. R. LA BRIE
JOB 11-0124
DATE 6/20/01
SHEET 1 OF 1 SHEET

SEISMIC ANCHORAGE



FRONT ELEVATION

COUNTERTOP MOUNTED



PLAN AT BASE

T_{MAX} = 253 LBS/BOLT
V_{MAX} = 83 LBS/BOLT

LOADS: PER 1998 CALIFORNIA BUILDING CODE - SECTION 1632A
WEIGHT = 324 LBS
HORIZONTAL FORCE (V_H) = 0.94W = 305 LBS
VERTICAL FORCE (V_V) = 0.33(V_H) = 102 LBS

BOLT GROUP PROPERTIES:

I_{X-X} = 125 in.^{4}
I_{Z-Z} = 540 in.^{4}
I_{Y-Y} = 665 in.^{4}

MOMENTS:

M_{XX} = 305#(20.1") + (324# - 102#)1.15" = 6,386"#
M_{ZZ} = 305#(20.1") = 6,131"#
M_{YY} = 305#(1.15") = 351"#

BOLT FORCES:

TENSION (T)

$$T_{X\text{-AXIS}} = \frac{6386"\#(5.59")}{125} - \frac{324\# - 102\#}{4} = 230 \text{ LBS/BOLT}$$

$$T_{Z\text{-AXIS}} = \frac{6131"\#(11.62")}{540} - \frac{324\# - 102\#}{4} = 76 \text{ LBS/BOLT}$$

$$T = 230\# + 76\#(0.3) = 253 \text{ LBS/BOLT (MAX)}$$

SHEAR (V)

$$V = \frac{305\#}{4} + \frac{351"\#\sqrt{5.59^2 + 11.62^2}}{665} = 83 \text{ LBS/BOLT (MAX)}$$

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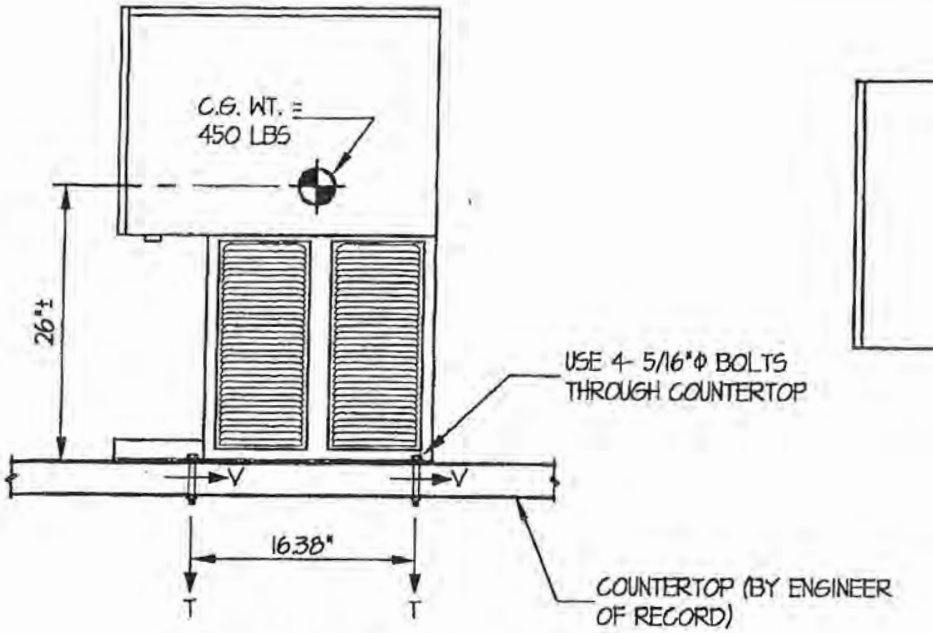
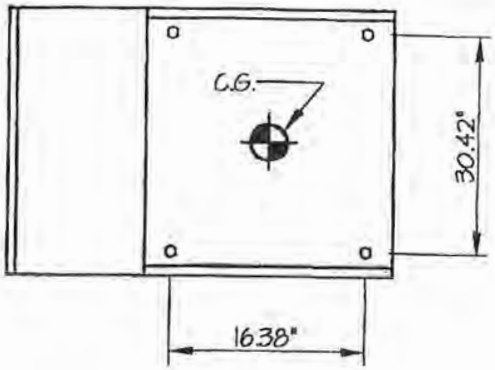
NOTE:
COUNTERTOP STRUCTURE SHALL BE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN BY OTHERS.

EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING		
SCOTSMAN EQUIPMENT ANCHORAGE	DES. R. LA BRIE	SHEET 1
	JOB 11-0124	
MODEL MDT6N90 ICE MAKER	DATE 6/20/01	OF 1 SHEET

SEISMIC ANCHORAGE



SIDE ELEVATION



PLAN AT BASE

T_{MAX} = 289 LBS/BOLT
V_{MAX} = 106 LBS/BOLT

LOADS: PER 1998 CALIFORNIA BUILDING CODE - SECTION 1632A
WEIGHT = 450 LBS
HORIZONTAL FORCE (V_H) = 0.94W = 423 LBS
VERTICAL FORCE (V_V) = 0.33(V_H) = 141 LBS

BOLT FORCES:

TENSION (T)

$$T_{\substack{\text{SIDE}\\\text{TO SIDE}}} = \frac{423\#(26.0")}{2_{\text{BOLTS}}(30.42")} - \frac{450\# - 141\#}{4_{\text{BOLTS}}} = 104 \text{ LBS/BOLT}$$

$$T_{\substack{\text{FRONT}\\\text{TO BACK}}} = \frac{423\#(26.0")}{2_{\text{BOLTS}}(16.38")} - \frac{450\# - 141\#}{4_{\text{BOLTS}}} = 258 \text{ LBS/BOLT}$$

$$T = 258\# + 104\#\,(0.3) = 289 \text{ LBS/BOLT (MAX)}$$

SHEAR (V)

$$V = \frac{423\#}{4} = 106 \text{ LBS/BOLT (MAX)}$$

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