



DEGENKOLB ENGINEERS

300 South Grand Ave. #1115, Los Angeles, CA 90071

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Office Of Statewide Health Planning And Development  
ANCHORAGE PRE-APPROVAL

OPA - 2176 - 07

PRODUCT MANUFACTURER: PETER PEPPER PRODUCTS

PRODUCT NAME/TYPE/MODEL: VISUAL COMMUNICATION BOARD [Model Series TC, WS, FB, CK, PB, FT, TF, CT, PT, FTF, MMD, MM-CLD-GL, MM-LMB, MM-CW, MM-CW-GL, WB-CW-GL, CB, CC, CCB, 7675]

GENERAL NOTES:

- FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 11, 12 AND 13 USING THE FOLLOWING EQUATION (EQ. 13.3-2):

$$F_p = 1.6 S_Ds I_p W_p = 4.62 W_p$$

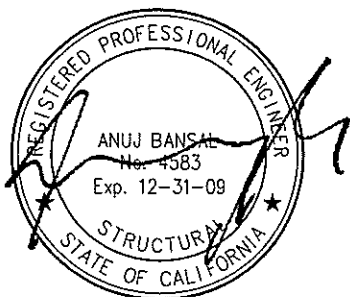
$$F_v = 0.2 S_Ds W_p = 0.39 W_p \text{ WHERE,}$$

$$S_Ds = 2/3 F_a S_s = 1.927g \text{ (EQ. 11.4-3)}$$

- $I_p$  1.50
- $F_a$  1.00
- $S_s$  2.89 g
- $W_p$  MAXIMUM OPERATING WEIGHT

NOTE THAT THE FORCE LEVEL IS FOR STRENGTH DESIGN

- THIS PRE-APPROVAL CONFORMS TO THE 2007 CALIFORNIA BUILDING CODE.
- THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA.
- THE DETAILS MAY BE USED FOR ANY LEVEL OF THE BUILDING WHERE THE ABOVE STATED PRODUCT IS LOCATED.



A P P R O V E D  
Fixed Equipment Anchorage  
Office of Statewide Health Planning and Development

OPA-2176-07

Pre-approval Program Manager:  
Anthony R. Pike  
(916) 440-8470



*George Zhu* July 8, 2009  
Reviewed By: George Zhu Date



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## Office Of Statewide Health Planning And Development ANCHORAGE PRE-APPROVAL

# OPA - 2176 - 07

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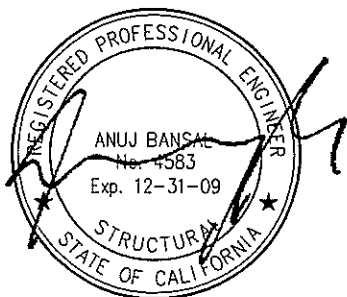
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### GENERAL NOTES (CONT'D):

5. ALL LOADS SHOWN ON THE CALCULATIONS ARE BASED ON STRENGTH DESIGN.
6. THIS UNIT DOES NOT REQUIRE SEISMIC CERTIFICATION.
7. TYPICAL DIMENSIONAL TOLERANCE IS  $\pm \frac{1}{4}$ ".

### RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD:

1. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS.
2. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY WALL OPENINGS.
3. VERIFY THE INSTALLATION IS IN CONFORMANCE WITH THE 2007 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE EQUIPMENT'S ACTUAL WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.
4. VERIFY THAT THE CONCRETE WALL / CMU WALL WHICH THE UNIT IS ANCHORED IS NOT CRACKED.
5. DESIGN ANY SUPPLEMENTARY MEMBERS AND THEIR ATTACHMENTS WHICH THE UNIT IS ANCHORED TO. VERIFY THE ADEQUACY OF ANY EXISTING MEMBERS AND THEIR ATTACHMENTS WHICH THE UNIT IS ANCHORED TO, FOR THE FORCES EXERTED ON THEM BY THE UNIT IN ADDITION TO ALL OTHER LOADS AND FORCES.





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ANCHORAGE PRE-APPROVAL

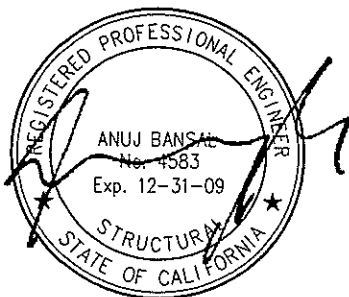
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MATERIAL SPECIFIC NOTES FOR SUPPORTING STRUCTURAL MEMBERS:

1. LIGHT GAGE METAL:  
MINIMUM GAGE: 20 GA.  
MINIMUM YIELD STRENGTH ( $f_y$ ) = 33 KSI
2. WOOD:  
MINIMUM GRADE: DOUGLAS FIR NO.3 OR BETTER  
MINIMUM SPECIFIC GRAVITY (G) = 0.46
3. CONCRETE:  
MINIMUM UNIT WEIGHT = 110 pcf (LIGHT WEIGHT CONCRETE)  
MINIMUM UNIT WEIGHT = 145 pcf (NORMAL WEIGHT CONCRETE)  
MINIMUM COMPRESSIVE STRENGTH ( $f'_c$ ) = 2000 PSI
4. MASONRY:  
MINIMUM COMPRESSIVE STRENGTH ( $f_m$ ) = 1500 PSI
5. SEE 2007 CALIFORNIA BUILDING CODE FOR MORE INFORMATION AND OTHER REQUIREMENTS.
6. IF THE WOOD MATERIAL USED HAS A LOWER QUALITY THAN WHAT IS SPECIFIED ABOVE, SEOR SHALL EVALUATE THE BACKING SUPPORT DESIGN.



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*George Zhu* July 8, 2009

Reviewed By: George Zhu Date



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Designed By TY

**VISUAL COMMUNICATION BOARD**

Project # A8621021.00

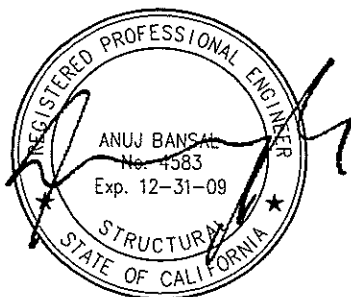
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 MM-CW, WB-CW-GL, CB, CC, CCB, 7675

Date 10/24/2008

**MODEL DIMENSIONS**

Name	W (in)	H (in)	D (in)	Wt (lbs)
TC2436	24	36	< 2	26
TC3624	36	24	< 2	26
TC3636	36	36	< 2	34
TC3648	36	48	< 2	45
TC4836	48	36	< 2	45
TC4848	48	48	< 2	58
TC6036	60	36	< 2	77
TC6048	60	48	< 2	96
TC7236	72	36	< 2	68
TC7248	72	48	< 2	97
TC9648	96	48	< 2	125
TC12048	120	48	< 2	160
TC14448	144	48	< 2	221
FB3636	36	26	< 2	21
FB3648	36	48	< 2	26
FB4836	48	36	< 2	26
FB4848	48	48	< 2	32
FB6036	60	36	< 2	33
FB6048	60	48	< 2	41

Name	W (in)	H (in)	D (in)	Wt (lbs)
FB7236	72	36	< 2	45
FB7248	72	48	< 2	68
FB9648	96	48	< 2	78
CK3636	36	36	< 2	23
CK3648	36	48	< 2	26
CK4836	48	36	< 2	28
CK4848	48	48	< 2	34
CK6036	60	36	< 2	40
CK6048	60	48	< 2	45
CK7236	72	36	< 2	51
CK7248	72	48	< 2	56
CK9648	96	48	< 2	88
PB2436	24	36	< 2	21
PB3624	36	24	< 2	22
PB3636	36	36	< 2	30
PB3648	36	48	< 2	42
PB4836	48	36	< 2	42
PB4848	48	48	< 2	47
PB6036	60	36	< 2	50



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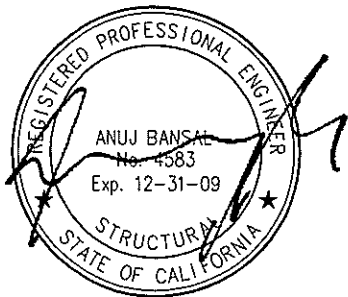
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 MM-CW, WB-CW-GL, CB, CC, CCB, 7675

Date 10/24/2008

**MODEL DIMENSIONS (CONT'D)**

Name	W (in)	H (in)	D (in)	Wt (lbs)
PB6048	60	48	< 2	64
PB7236	72	36	< 2	62
PB7248	72	48	< 2	73
PB9648	96	48	< 2	96
CT4836	48	36	< 2	39
CT7236	72	36	< 2	59
CT7248	72	48	< 2	77
CT9636	96	36	< 2	90
CT9648	96	48	< 2	100
PT4836	48	36	< 2	42
PT7236	72	36	< 2	62
PT7248	72	48	< 2	79
PT9636	96	36	< 2	98
PT9648	96	48	< 2	112
FTF7236	72	36	< 2	58
FTF9648	96	48	< 2	112
FTF12036	120	36	< 2	136
FTF12048	120	48	< 2	146
FTF14448	144	48	< 2	168

Name	W (in)	H (in)	D (in)	Wt (lbs)
FTF14448E	144	48	< 2	136
WS2436	24	36	< 2	21
WS3030	30	30	< 2	24
WS3036	30	36	< 2	27
WS3624	36	24	< 2	22
WS3630	36	30	< 2	27
WS3636	36	36	< 2	31
WS4224	42	24	< 2	27
WS4230	42	30	< 2	32
WS4236	42	36	< 2	36
WS4824	48	24	< 2	31
WS4830	48	30	< 2	36
WS4836	48	36	< 2	41
WS4848	48	48	< 2	53
WS6036	60	36	< 2	52
WS6048	60	48	< 2	68
WS7236	72	36	< 2	60
WS7248	72	48	< 2	78
WS9648	96	48	< 2	103



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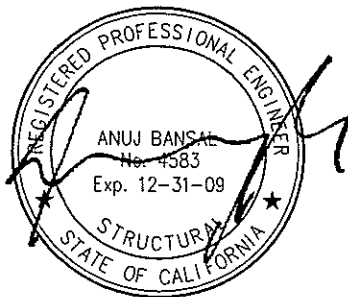
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 MM-CW, WB-CW-GL, CB, CC, CCB, 7675

Date 10/24/2008

**MODEL DIMENSIONS (CONT'D)**

Name	W (in)	H (in)	D (in)	Wt (lbs)
WS12048	120	48	< 2	134
TF4236	42	36	< 2	23
TF4830	48	30	< 2	22
TF4836	48	36	< 2	26
TF4848	48	48	< 2	31
TF6036	60	36	< 2	26
TF6048	60	48	< 2	33
TF7236	72	36	< 2	41
TF7248	72	48	< 2	66
TF9648	96	48	< 2	89
MMD-2	24	24	2	20
MMD-2	24	30	2	24
MMD-2	24	36	2	28
MMD-2	30	24	2	24
MMD-2	30	30	2	30
MMD-2	30	36	2	35
MMD-2	36	24	2	29
MMD-2	36	30	2	35
MMD-2	36	36	2	41

Name	W (in)	H (in)	D (in)	Wt (lbs)
MMD-2	36	48	2	53
MMD-2	42	24	2	33
MMD-2	42	30	2	40
MMD-2	42	36	2	47
MMD-2	48	24	2	38
MMD-2	48	30	2	46
MMD-2	48	36	2	54
MMD-2	48	42	2	62
MMD-2	48	48	2	70
MMD-4	24	24	4	22
MMD-4	24	30	4	27
MMD-4	24	36	4	31
MMD-4	30	24	4	27
MMD-4	30	30	4	33
MMD-4	30	36	4	38
MMD-4	36	24	4	32
MMD-4	36	30	4	38
MMD-4	36	36	4	45



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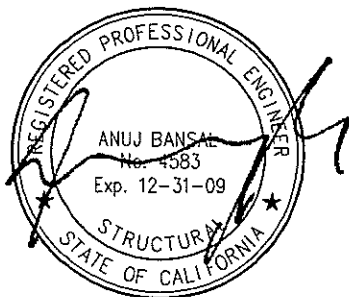
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**MODEL DIMENSIONS (CONT'D)**

Name	W (in)	H (in)	D (in)	Wt (lbs)
MM-CLD	48	42	< 2	21
MM-CLD	60	36	< 2	23
MM-CLD	60	42	< 2	25
MM-CLD-GL	24	36	< 2	26
MM-CLD-GL	36	24	< 2	27
MM-CLD-GL	36	36	< 2	38
MM-CLD-GL	36	42	< 2	43
MM-CLD-GL	48	24	< 2	35
MM-CLD-GL	48	36	< 2	49
MM-CLD-GL	48	42	< 2	57
MM-CLD-GL	60	36	< 2	61
MM-CLD-GL	60	42	< 2	70
MM-LMB	36	36	< 2	24
MM-LMB	36	48	< 2	31
MM-LMB	48	24	< 2	24
MM-LMB	48	36	< 2	32
MM-LMB	48	48	< 2	40
MM-LMB	60	36	< 2	39
MM-LMB	60	48	< 2	50

Name	W (in)	H (in)	D (in)	Wt (lbs)
MM-LMB	72	36	< 2	47
MM-LMB	72	48	< 2	59
MM-LMB	96	36	< 2	62
MM-LMB	96	48	< 2	78
MM-LMB	120	48	< 2	97
MM-LMB	144	48	< 2	116
MM-CW/3-PB	60	36	< 2	48
MM-CW/3-PB	60	48	< 2	62
MM-CW/3-PB	72	36	< 2	57
MM-CW/3-PB	72	48	< 2	74
MM-CW/3-PB	84	36	< 2	66
MM-CW/3-PB	84	48	< 2	86
MM-CW/3-PB	96	36	< 2	76
MM-CW/3-PB	96	48	< 2	98
MM-CW-GL/3-PB	60	36	< 2	80
MM-CW-GL/3-PB	60	48	< 2	105
MM-CW-GL/3-PB	72	36	< 2	99
MM-CW-GL/3-PB	72	48	< 2	129



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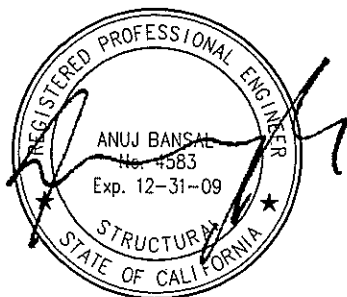
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**MODEL DIMENSIONS (CONT'D)**

Name	W (in)	H (in)	D (in)	Wt (lbs)
MM-CW-GL/3-PB	84	36	< 2	115
MM-CW-GL/3-PB	84	48	< 2	149
MM-CW-GL/3-PB	96	36	< 2	130
MM-CW-GL/3-PB	96	48	< 2	170
MM-CW	36	24	< 2	83
MM-CW	36	36	< 2	64
MM-CW	48	36	< 2	83
MM-CW	48	48	< 2	107
MM-CW	60	36	< 2	104
MM-CW	60	48	< 2	134
MM-CW	72	36	< 2	127
MM-CW	72	48	< 2	163
MM-CW	96	48	< 2	212
MM-CW-GL	36	24	< 2	83
MM-CW-GL	36	36	< 2	64
MM-CW-GL	48	36	< 2	83
MM-CW-GL	48	48	< 2	107
MM-CW-GL	60	36	< 2	104
MM-CW-GL	60	48	< 2	134

Name	W (in)	H (in)	D (in)	Wt (lbs)
MM-CW-GL	72	36	< 2	127
MM-CW-GL	72	48	< 2	163
MM-CW-GL	96	48	< 2	212
FT4836	48	36	< 2	40
FT7236	72	36	< 2	59
FT7248	72	48	< 2	79
FT9636	96	36	< 2	85
FT9648	96	48	< 2	93
WB-CW-GL	96	48	< 2	93
WB-CW-GL	36	24	< 2	45
WB-CW-GL	36	36	< 2	64
WB-CW-GL	48	36	< 2	83
WB-CW-GL	48	48	< 2	107
WB-CW-GL	60	36	< 2	104
WB-CW-GL	60	48	< 2	134
WB-CW-GL	72	36	< 2	127
WB-CW-GL	72	48	< 2	163
WB-CW-GL	84	36	< 2	145
WB-CW-GL	84	48	< 2	187



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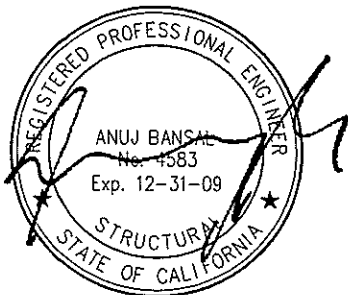
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Name	W (in)	H (in)	D (in)	Wt (lbs)
WB-CW-GL	96	36	< 2	164
WB-CW-GL	96	48	< 2	212
CB4848	48	48	< 2	40
CB7248	72	48	< 2	59
CB9648	96	48	< 2	77
CC	48	48	< 2	184
CC	60	48	< 2	229
CCB	48	48	< 2	179
CCB	60	48	< 2	226
7675	48	42	2	84



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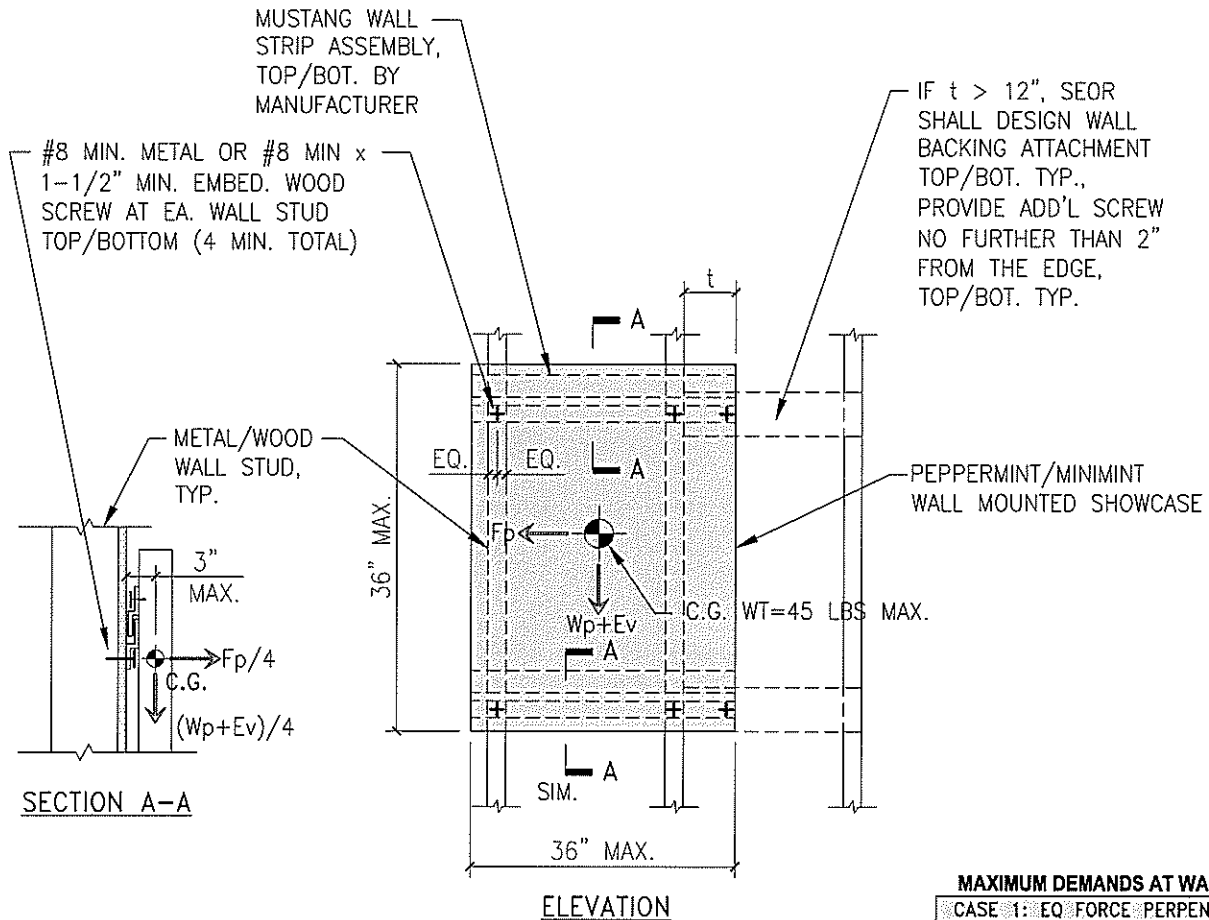
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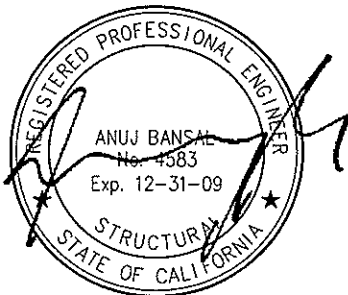
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METAL/WOOD STUDWALL ATTACHMENT (SMALL UNIT)



**MAXIMUM DEMANDS AT WALL SCREWS**

<b>CASE 1: EQ FORCE PERPEND. TO WALL</b>	
TENSION = 55.0 LBS	SHEAR = 17.9 LBS
<b>CASE 2: EQ FORCE PARALLEL TO WALL</b>	
TENSION = 11.6 LBS	SHEAR = 55.0 LBS



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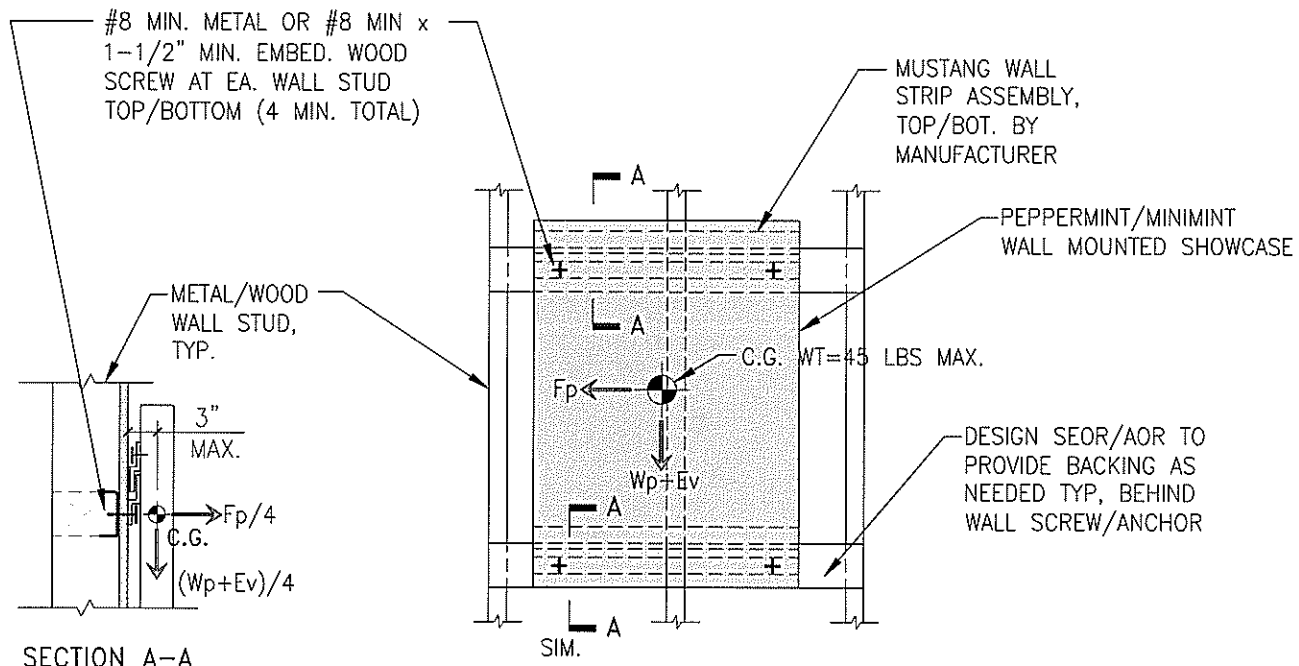
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	Date	10/24/2008

**VISUAL COMMUNICATION BOARD**  
 TC, WS, FB, CK, PB, TF, FT, CT, PT, FTF, MMD, MM-CLD-GL, MM-LMB, MM-CW-GL,  
 MM-CW, WB-CW-GL, CB, CC, CCB, 7675

METAL/WOOD STUDWALL ATTACHMENT (SMALL UNIT) - (ALTERNATE ATTACHMENT)



SECTION A-A

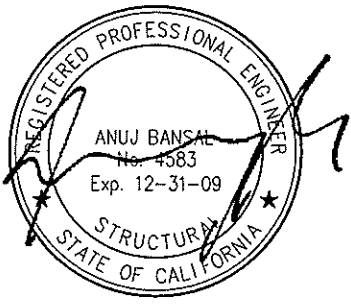
ELEVATION

**MAXIMUM DEMANDS AT WALL SCREWS**

CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 55.0 LBS	SHEAR = 17.9 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 11.6 LBS	SHEAR = 55.0 LBS

**NOTES:**

1. SEE PAGE 10 FOR INFO NOT SHOWN



**A P P R O V E D**  
 Fixed Equipment Anchorage  
 Office of Statewide Health Planning and Development

**OPA-2176-07**  
 Pre-approval Program Manager  
 Anthony R. Pike  
 (915) 440-8470

*George Zhu* July 8, 2009  
 Reviewed By: **George Zhu** Date



Degenkolb Engineers  
 300 S. Grand Ave. #1115, Los Angeles, CA 90071  
 (213) 596-5000 - (213) 596-5960

Sheet  
 12 of 16

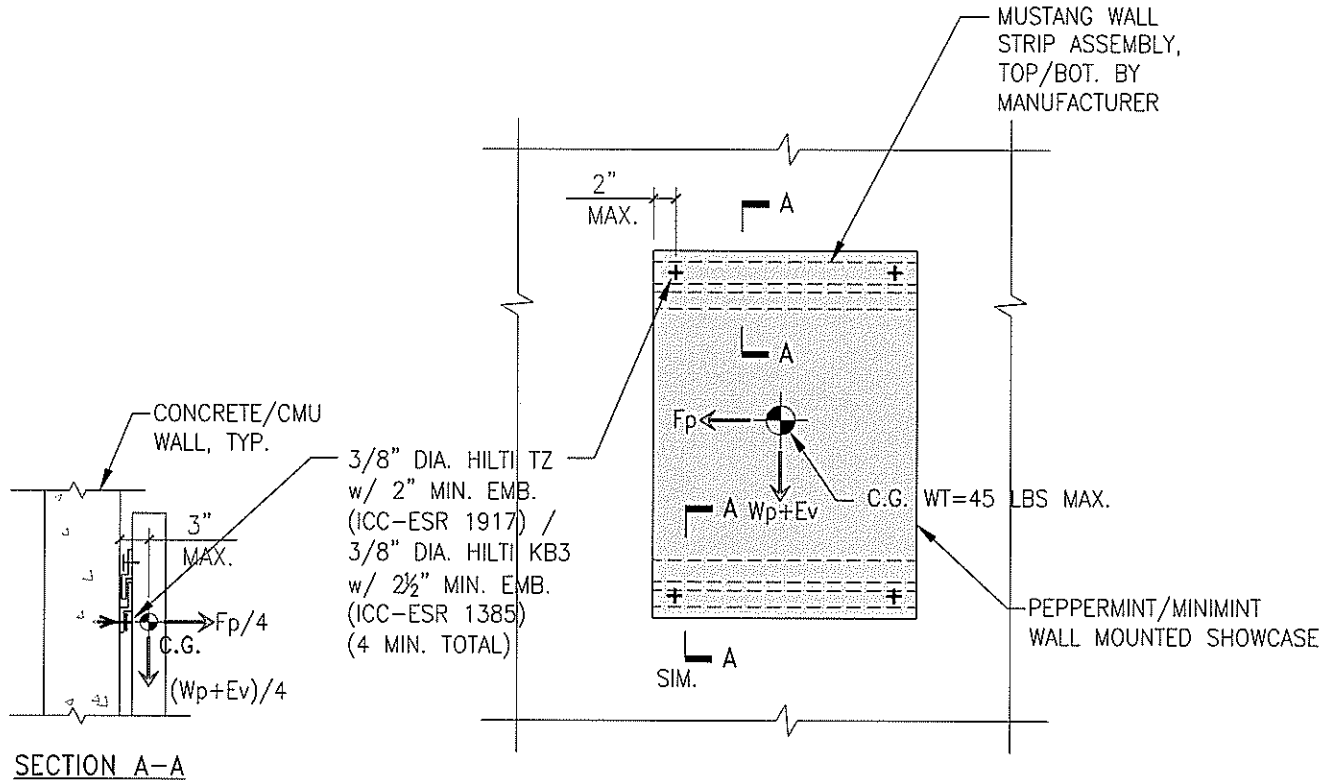
**PETER PEPPER PRODUCTS**

Designed By TY  
 Project # A8621021.00  
 Date 10/24/2008

**VISUAL COMMUNICATION BOARD**

TC, WS, FB, CK, PB, TF, FT, CT, PT, FTF, MMD, MM-CLD-GL, MM-LMB, MM-CW-GL,  
 MM-CW, WB-CW-GL, CB, CC, CCB, 7675

CONCRETE/CMU WALL ATTACHMENT (SMALL UNIT)



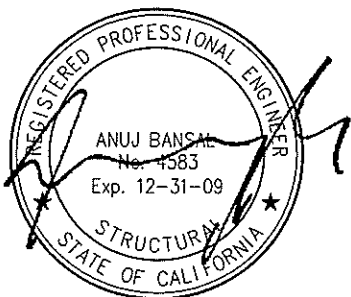
ELEVATION

**MAXIMUM DEMANDS AT WALL ANCHORS**

CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 71.4 LBS	SHEAR = 23.3 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 15.1 LBS	SHEAR = 71.5 LBS

**NOTES:**

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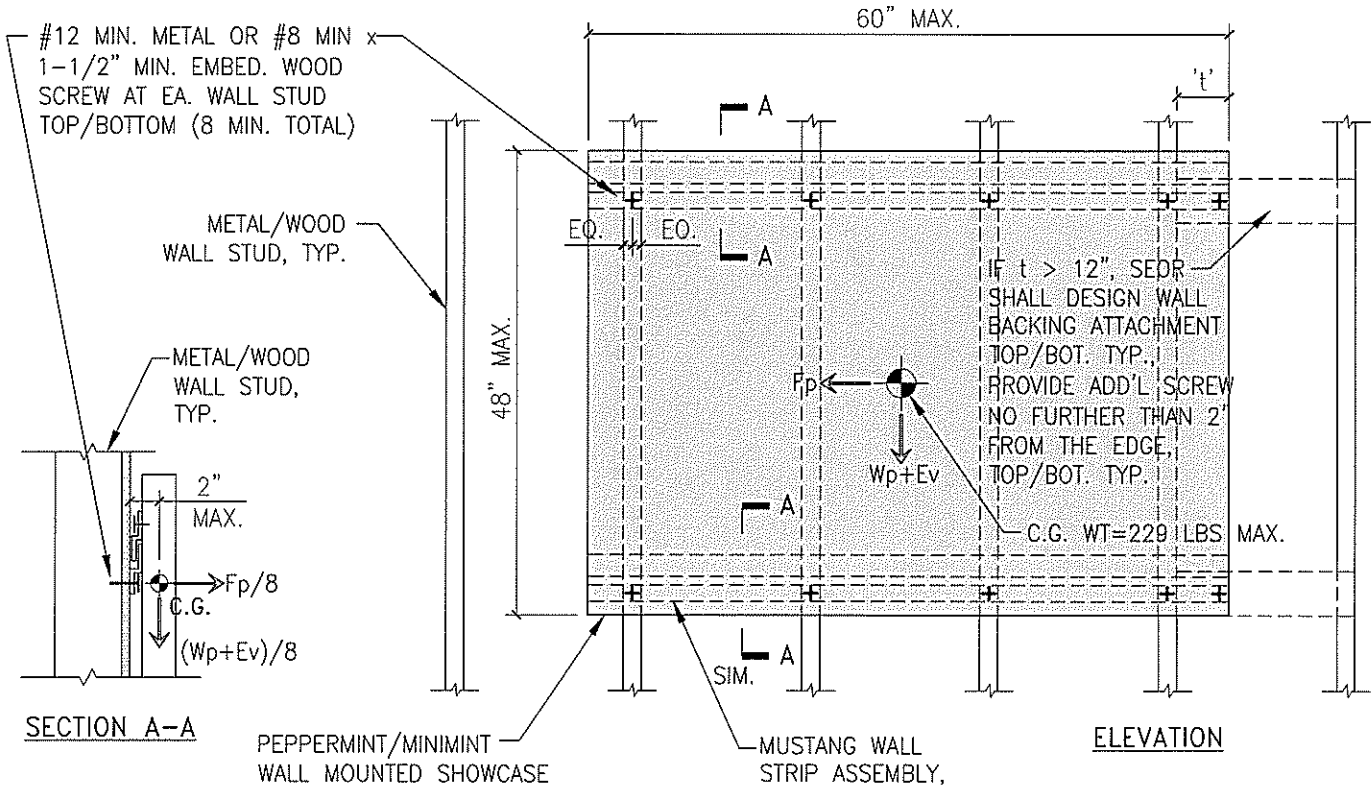
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**VISUAL COMMUNICATION BOARD**

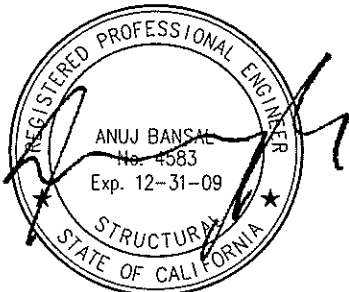
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 MM-CW, WB-CW-GL, CB, CC, CCB, 7675

METAL/WOOD STUDWALL ATTACHMENT (MEDIUM UNIT)



**MAXIMUM DEMANDS AT WALL SCREWS**

CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 136.0 LBS	SHEAR = 45.5 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 21.4 LBS	SHEAR = 139.9 LBS



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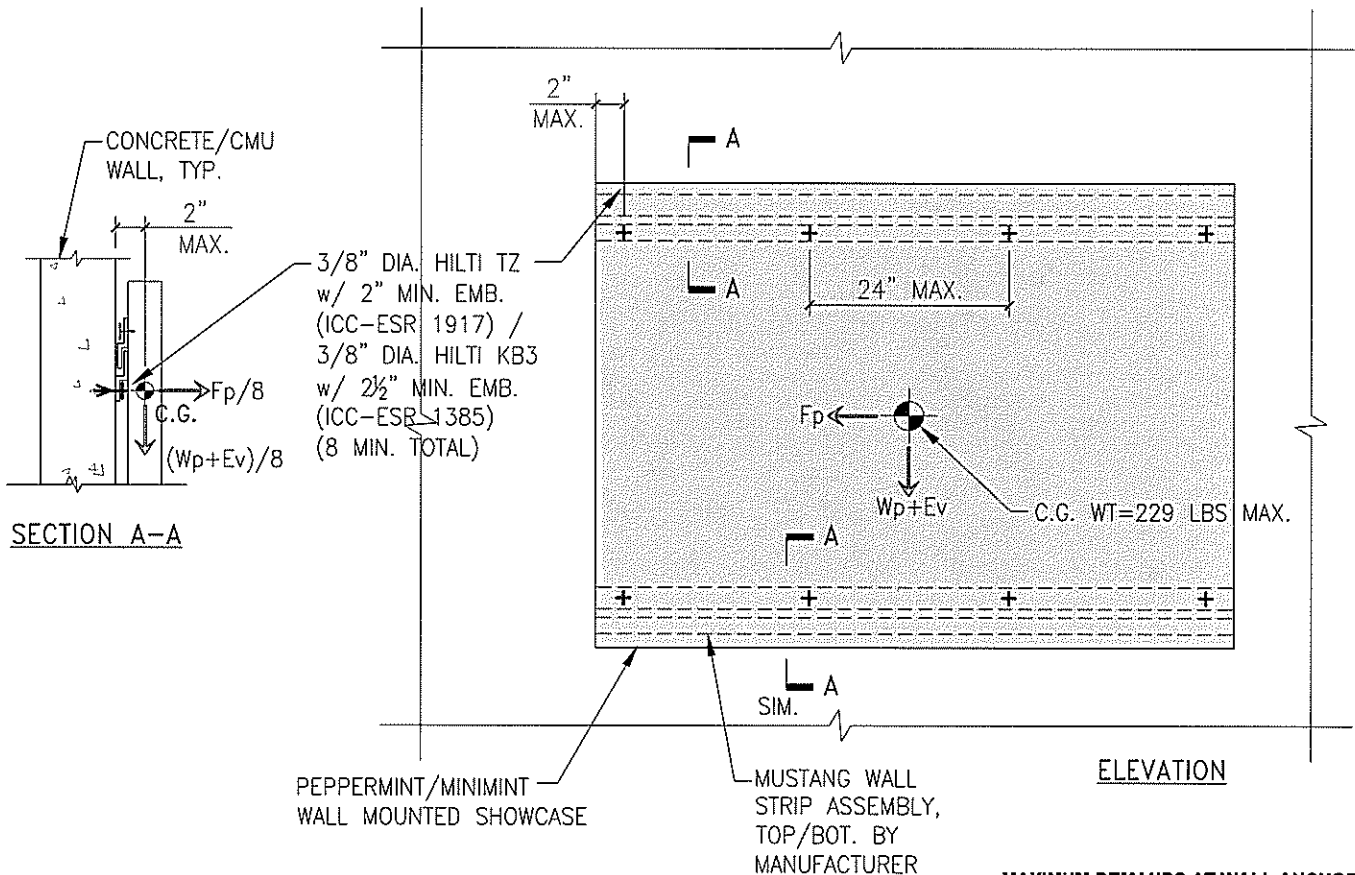
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**VISUAL COMMUNICATION BOARD**

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 MM-CW, WB-CW-GL, CB, CC, CCB, 7675

CONCRETE/CMU WALL ATTACHMENT (MEDIUM UNIT)

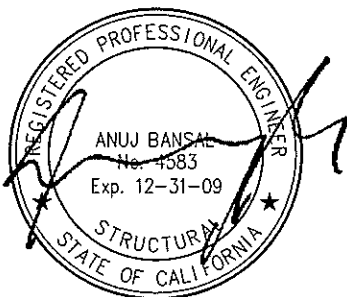


**MAXIMUM DEMANDS AT WALL ANCHORS**

CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 176.9 LBS	SHEAR = 59.2 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 27.9 LBS	SHEAR = 181.8 LBS

**NOTES:**

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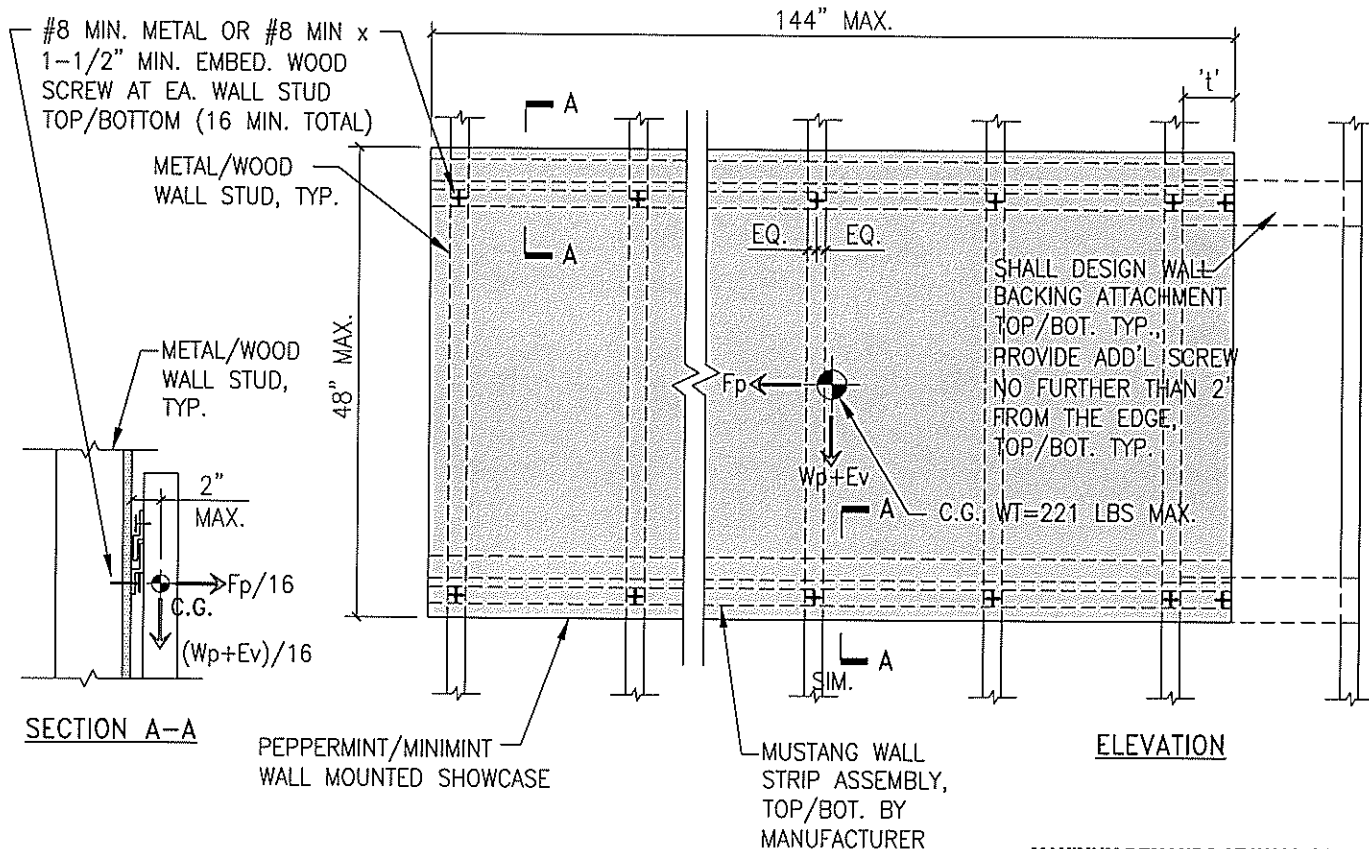
*George Zhu*  
 Reviewed By: **George Zhu**      Date **July 8, 2009**

PETER PEPPER PRODUCTS

VISUAL COMMUNICATION BOARD  
 TC, WS, FB, CK, PB, TF, FT, CT, PT, FTF, MMD, MM-CLD-GL, MM-LMB, MM-CW-GL,  
 MM-CW, WB-CW-GL, CB, CC, CCB, 7675

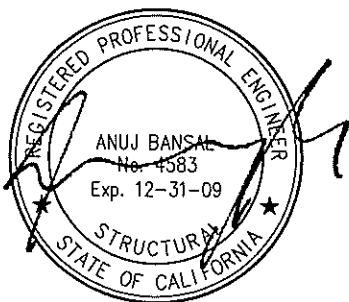
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 Date 10/24/2008

METAL/WOOD STUDWALL ATTACHMENT (LARGE UNIT)



MAXIMUM DEMANDS AT WALL SCREWS

CASE 1: EQ FORCE PERPEND. TO WALL	
TENSION = 65.6 LBS	SHEAR = 22.0 LBS
CASE 2: EQ FORCE PARALLEL TO WALL	
TENSION = 8.9 LBS	SHEAR = 67.5 LBS



APPROVED

Fixed Equipment Anchorage

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*George Zhu* July 8, 2009

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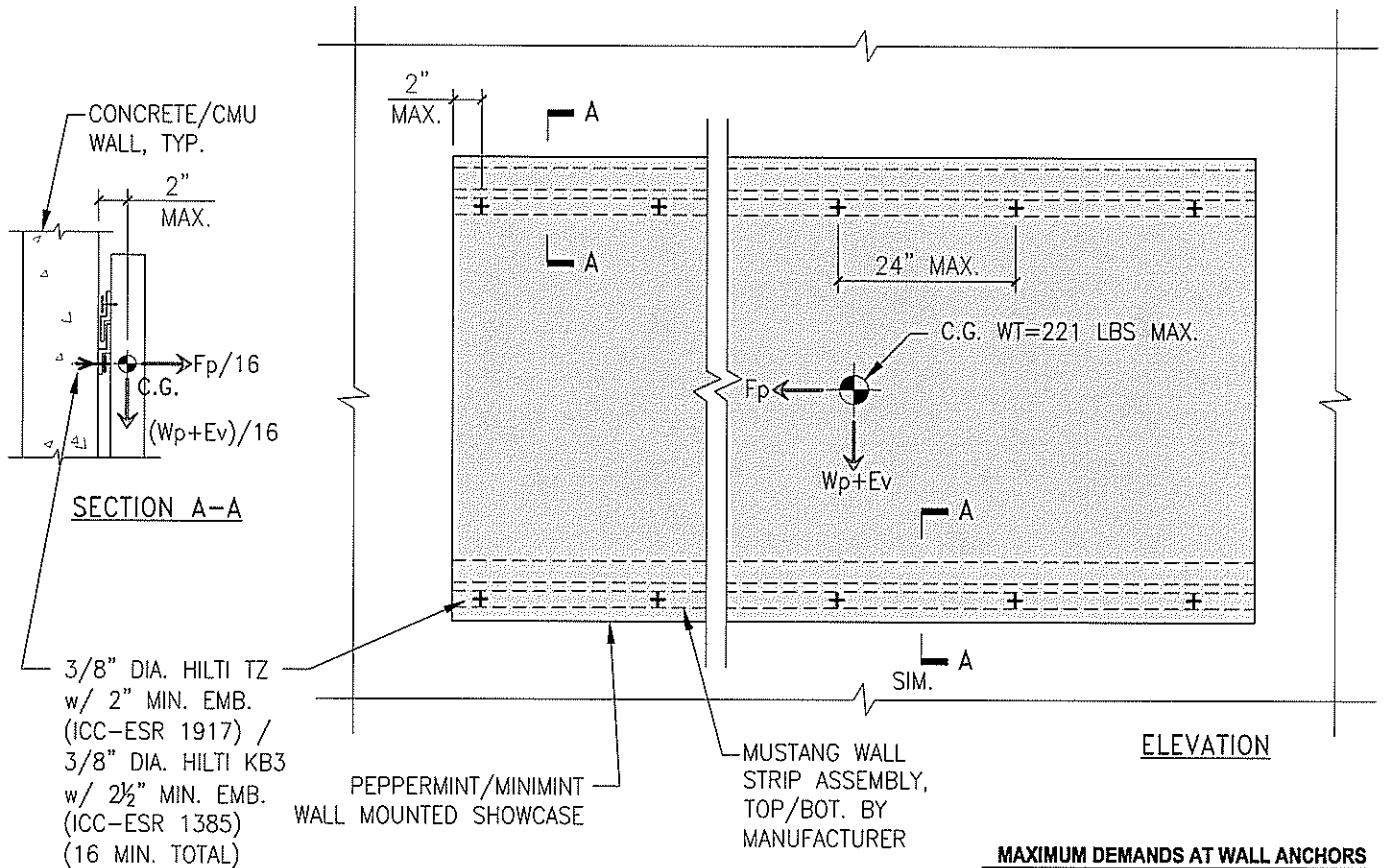
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 MM-CW, WB-CW-GL, CB, CC, CCB, 7675

CONCRETE/CMU WALL ATTACHMENT (LARGE UNIT)

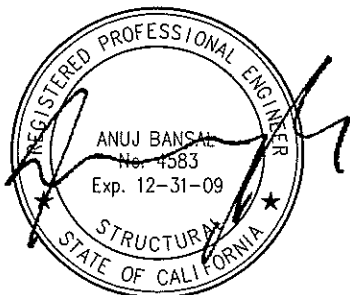


**MAXIMUM DEMANDS AT WALL ANCHORS**

<b>CASE 1: EQ FORCE PERPEND. TO WALL</b>	
TENSION = 85.3 LBS	SHEAR = 28.6 LBS
<b>CASE 2: EQ FORCE PARALLEL TO WALL</b>	
TENSION = 11.6 LBS	SHEAR = 87.7 LBS

**NOTES:**

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