



**EASE**  
EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

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Sheet 1 of 3

**Office of Statewide Health Planning and Development**  
**ANCHORAGE PRE-APPROVAL**

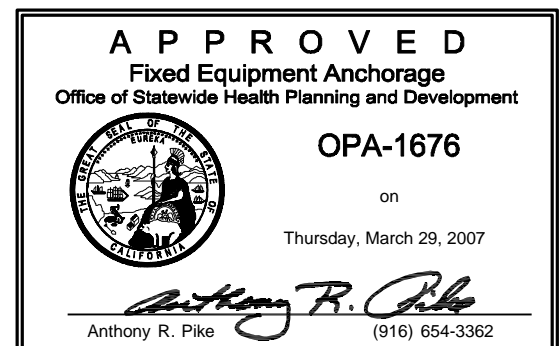
**OPA-1676**

Equipment Manufacturer: APWMayville Division of Mayville Products Corporation

Equipment Type: 18" Swing Out Wall Mount Rack

**GENERAL NOTES**

1. FORCES ARE DETERMINED PER 2001 CBC 1632A.2, EQUATIONS 32-A1, A2 & A3, WHERE  $C_a = .66$ ,  $a_p = 1.0$ ,  $I_p = 1.5$  &  $R_p = 3.0$   
PLEASE NOTE THAT THE RESULT FROM EQUATIONS 32-A1, A2 & A3  
HAVE BEEN REDUCED BY A FACTOR OF 1.4 FOR ALLOWABLE STRESS DESIGN.
2. THIS PRE-APPROVAL CONFORMS TO THE 2001 CALIFORNIA BUILDING CODE.
3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION AND AT ANY HEIGHT IN THE STATE OF CALIFORNIA.
4. THE ENGINEER OF RECORD SHALL DESIGN BACKING BARS, STUDS, FRAMES ABOVE THE CEILING, ETC.  
WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS. THE ENGINEER OF RECORD  
SHALL ALSO VERIFY THE ADEQUACY OF THE STRUCTURES (SUCH AS WALLS AND FLOORS)  
WHICH SUPPORT THE UNITS FOR THE LOADS IMPOSED ON THEM BY THE UNITS AS WELL AS ALL OTHER LOADS.
5. ALL ANCHOR FORCES SHOWN ON THE DRAWINGS ARE WORKING LOADS (AS OPPOSED TO ULTIMATE LOADS)  
AND MAY BE USED FOR ALLOWABLE STRENGTH DESIGN.



**APWMAYVILLE DIVISION OF  
MAYVILLE PRODUCTS CORPORATION**

**18" SWING OUT WALL MOUNT RACK**

DES. **R. LA BRIE**

JOB NO. **11-0722**

DATE **3/29/07**

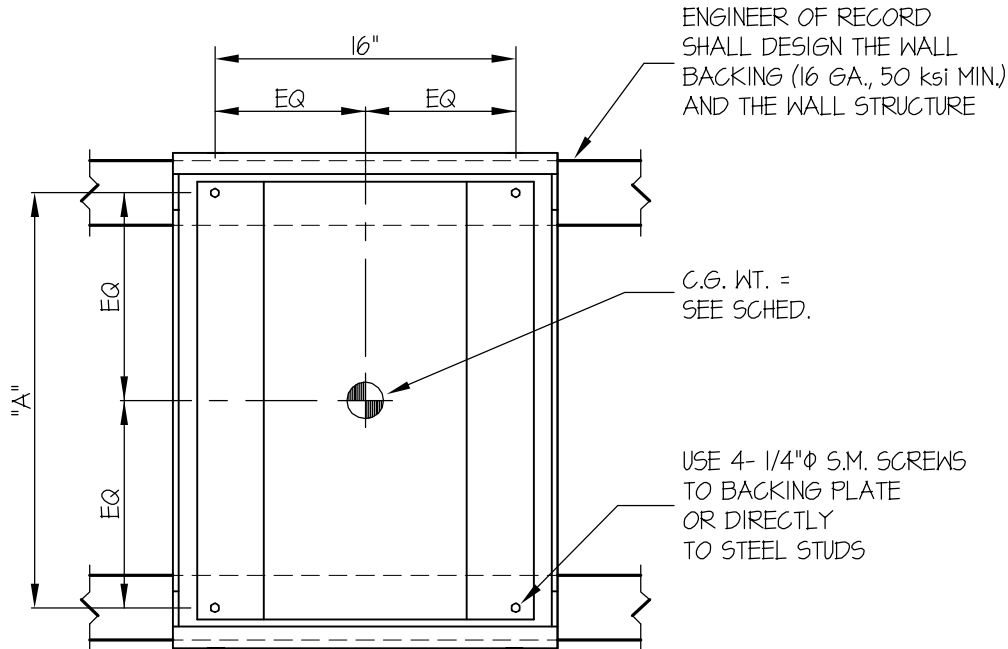
SHEET

**2**

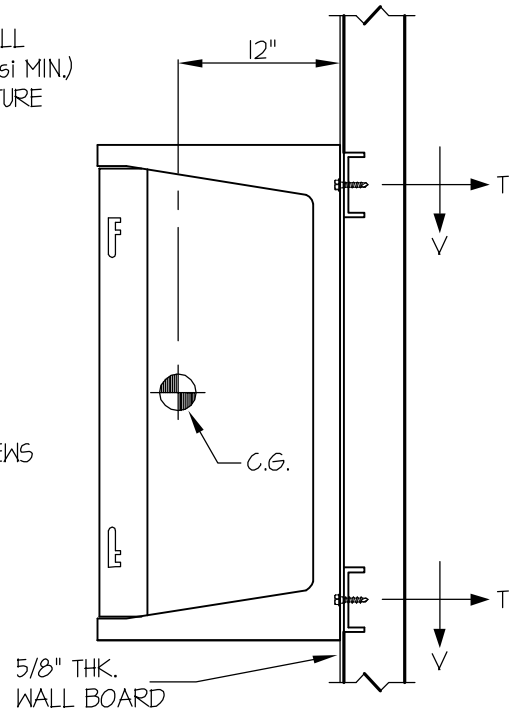
OF **3** SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



FRONT ELEVATION

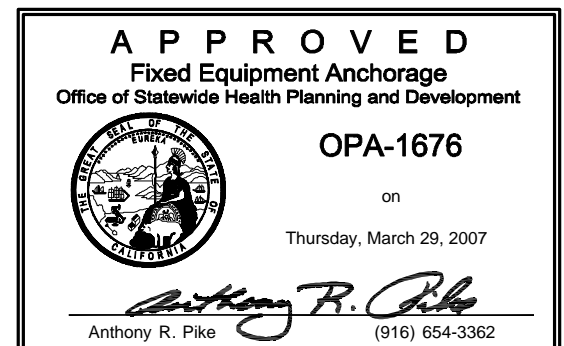
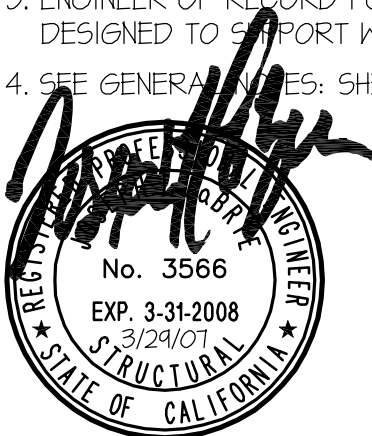


SIDE ELEVATION

SEE PAGE 3 OF 3 FOR WEIGHT, DIMENSIONS  
AND TENSION & SHEAR VALUES

NOTES:

1. ANCHORAGE DESIGN PER 2001 CALIFORNIA BUILDING CODE - SECTION 1632A AND HAVE BEEN FACTORED TO REPRESENT WORKING DESIGN LOADS, NOT ULTIMATE.  
HORIZONTAL FORCE ( $V_H$ ) =  $0.71(W)$  ( $C_a = .66$ ,  $I_p = 1.5$ ,  $a_p = 1.0$ ,  $R_p = 3.0$ )  
VERTICAL FORCE ( $V_V$ ) =  $0.35W$
2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS PRE-APPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
3. ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
4. SEE GENERAL NOTES: SHEET 1



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**3**

OF **3** SHEETS

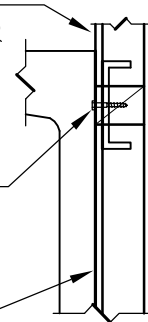
SEISMIC ANCHORAGE

WALL MOUNTED

2 x STUDS OR 4 x BLKG  
(DOUGLAS-FIR LARCH  
NUMBER 2 MIN.)  
(DESIGNED BY ENGINEER  
OF RECORD)

USE 4- 1/4"  $\phi$  X 4"  
LAG BOLTS TO  
WOOD STUD OR BLKG.  
(PRE-DRILL HOLES  
TO SHANK DIAMETER)

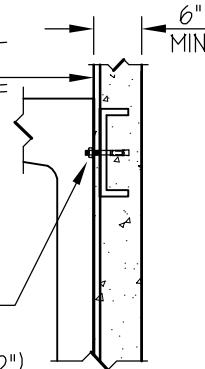
5/8" THK.  
WALL BOARD



WOOD STUD WALL

CONCRETE WALL  
(3000 PSI MIN)  
BY ENGINEER OF  
RECORD

USE 4- 1/4"  $\phi$   
HILTI KB-III  
EXPANSION  
ANCHORS  
(MIN. EMBED. = 2")



CONCRETE WALL

CATALOG NUMBER	WIDTH (in)	"A" (in)	"B" (in)	WEIGHT (lbs)	T <sub>MAX</sub> (lbs/bolt)	V <sub>MAX</sub> (lbs/bolt)
50191218M	16	22	12	154	106	79
50192018M	16	36	12	158	86	81
50192518M	16	45	12	166	83	86
50231218M	16	22	12	156	108	81
50232018M	16	36	12	160	90	83
50232518M	16	45	12	168	84	87

