

10-7-13

JOB # 13-731

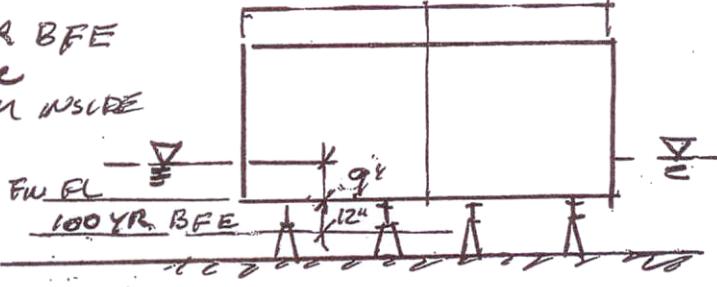
ABESCO
 ETS 112C
 Buoyancy STABILIZATION
 FOR MANUFACTURED HOMES
 PLACED IN FEMA FLOOD
 ZONE AND ZONE A, AE & AH



STATIC WATER - SLOW RISE
 NO VELOCITY

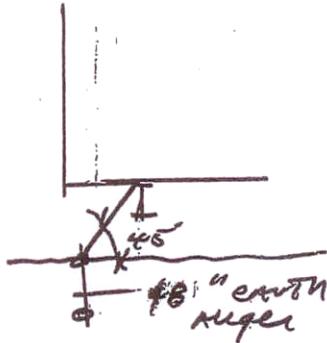
10-7-13

CHECK TIE DOWNS
 REQUIRED FOR SLOW
 RISE ABOVE THE 100 YR BFE
 @ 9" WATER LEVEL
 DIFFERENTIAL FROM INSIDE
 HOME TO EXTERIOR
 AVE WT OF COMM
 MODULAR BUGS
 IS 34 psf
 (FOR SINGLES & MULTIS) *



USE MIN 48" EARTH
 AUGERS TO RESIST NET
 BOUYANCY FORCE
 PLACE ON LONG SIDES
 OF COMM MODULARS

CAPACITY OF EARTH & TIE
 STRAPS = $3150 \times 0.707 =$
 $= 2227 \text{ ft}$



NET BOUYANCY FORCE =

SINGLE MODULES

$$\begin{aligned} \text{SIZE} \times 0.75 \times 62.4 - \text{SIZE} \times 28 \text{ psf} \\ = \text{SIZE} \times 46.2 - 34 \\ = \text{SIZE} \times 13 \text{ psf} \end{aligned}$$

NO TIE DOWNS REQ'D

NET B.F / 2227

FHZ A, AH
 ETS 112C
 HCD → RD
 10/9/15

PACIFIC CONSULTING ENGINEERS
 8158 BELL AVE., SUITE 145
 SACRAMENTO, CA 95838

21
84

Mfgd Home	NET BF [#]	No TDS	Placement SLOTS	Total
12 x 40	6240*	5	2	(4)
12 x 44	6864	4	2	(4)
12 x 50	7800	4	2	(4)
12 x 56	8736	4	2	(4)
12 x 60	9360	5	3	(6)
12 x 70	10,920	5	3	(6)
14 x 50	9190	5	3	(6)
14 x 60	10,920	5	3	(6)
14 x 66	12,012	6	3	(6)
14 x 74	13,408	6	3	(6)
16 x 60	12,480	4	3	(6)
16 x 74	15,392	7	4	(8)

3
1
4

NET BOUNDARY FOR MULTIWIDES

$$\text{NBF} = \text{SIZE} \times 86.8 - 34$$

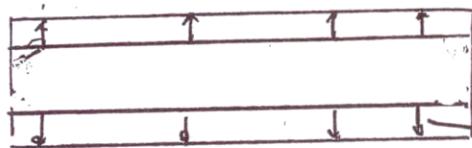
$$= \text{SIZE} \times 13$$

MFG'D HOME SIZE	NBF	NO TO.	PLACED EACH SIDE	TOTAL ()
20 x 40	10,400	5	3	6
20 x 50	13,000	6	3	6
20 x 60	15,600	7	4	(8)
24 x 40	12,480	4	3	(6)
24 x 50	15,600	7	4	(8)
24 x 60	18,720	9	5	(10)
24 x 66	20,592	10	5	(10)
28 x 50	18,200	8	4	(8)
28 x 60	21,840	10	5	(10)
28 x 66	24,024	11	6	(12)
28 x 74	26,936	12	6	(12)
40 x 50	26,600	12	6	(12)
40 x 60	31,200	14	7	(14)
40 x 66	34,320	14	8	(16)
40 x 74	38,480	18	9	(18)

FLOOD ZONE A TIE DOORS

4/4

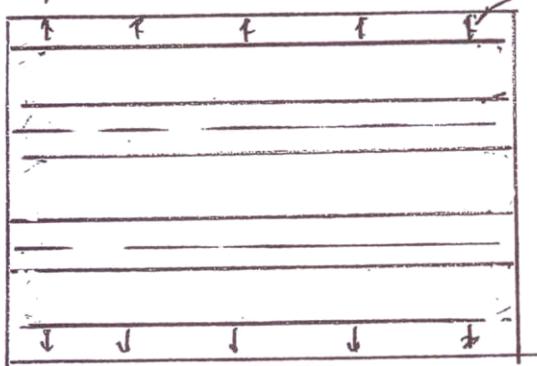
~~6' EVENLY SPACED 6'~~



MFDD HOME SIZE	NO TIE DOORS EACH SIDE
12' TO 56'	2
12' X 54" TO 20'	3
14' TO 74'	3
16' TO 60'	3
16' - 60" TO 74'	4

3150st
INSTALL APPROVED TIE DOORS
STRAP = MAXESSD CIRCULAR RIGEL

~~4' EVENLY SPACED 4'~~



MFDD Home SIZE	TO TIE DOOR EACH SIDE
20' TO 50'	3
20' 50" TO 60'	4
24' TO 50'	3
24' 50" TO 66"	5
28' TO 60"	5
28' 60" TO 74'	6
40' TO 60'	7
40' 60" TO 66"	8
40' 60"- 74"	9