GENERAL NOTES TUF-1 THE FOUNDATION SYSTEM IS DESIGNED FOR THE TUF-1 CODE 2022 CRC; SITE CLASS D-2, STANCHONS TO BE PLACED ON THE OUTSIDE CHASSIS BEAMS OF 1. DESIGN LOADS: THE MULTI-WIDE HOMES. THE TOTAL NUMBER OF TUF-1 ROOF LIVE LOAD - 30 LB. TO 100 LB. SNOW STANCHONS REQUIRED, CAN BE PLACED ON THE OUTSIDE OF THE FLOOR LIVE LOAD - 40 PSF INNER CHASSIS BEAMS AT EACH MODULE, SO LONG AS THE WIND LOAD - 110 MPH EXPOSURE "C" & 130 MPH EX. "C" MAXIMUM SPACINGS SHOWN THIS SHEET ARE NOT EXCEEDED SEISMIC ZONE - Ss=1.5 Fa=1.4 Sos =1.41 SITE CLASS "D" * SNOW LOAD (SEE NOTE #15) LEGEND: SINGLE WIDE HOMES. ' DOUBLE/MULTIPLE HOMES. E=END DISTANCE E= 2' MIN. / 8' MAX. E= 2' MIN. / 11' MAX. S= 6' MIN. / 22' MAX. 2. THIS FOUNDATION SYSTEM IS DESIGNED TO BE CONSTRUCTED ON S=SPACING OF THE TUF-1's S= 6' MIN. /22' MAX. A FAIRLY LEVEL SITE WITH NO EXISTING SOIL PROBLEMS. CHASSIS BEAM SUPPORTS SHALL BE LOCATED AND SIZED FOR THE LOADS VARIES 10'-70' (SEE TABLE ON SHEET #3) AS SHOWN IN THE "MOBILE HOME INSTALLATION INSTRUCTIONS". 4. IN AREAS WHERE DIFFERENTIAL SETTLEMENT (D.S.) CAN OCCUR, MANUFACTURED HOME SHALL BE READJUSTED WHEN DS EXCEEDS 1/4". OR WHEN IT WILL ADVERSELY AFFECT MOBILE HOME UNIT. CARRY ALL CONCRETE FOOTINGS DOWN TO FIRM, UNDISTURBED SOIL. FOOTINGS RIDGE BEAM SUPPORT AS SINGLE REQUIRED BY MANUFACTURER ARE DESIGNED FOR 1,500 PSF TOTAL LOAD SOIL PRESSURE, AND WIDE (TYPICAL) SHALL BE COMPATIBLE WITH LOCAL SOIL CONDITIONS. COMPACTED SAND MAY BE USED TO FILL LOCAL VOIDS UNDER PADS. 6. STRUCTURAL STEEL: FABRICATED ACCORDING TO AISC SPECIFICATION. WELD ACCORDING TO AWS SPECIFICATIONS. ELECTRODES-370 PLATES-ASTM 8 NOM. A36 BOLTS-SAE GR 5=ASTM A449=ASTM A3725. 7. THE ASSEMBLIES SHOWN ON THIS PAGE SHALL BE LISTED AND NOM LABELED BY BSK AND ASSOCIATES FOR THE FOLLOWING LOADS: -TUF-1/EZ TIE PADS IN ANY PAIR MAY BE STANDARD M.H. FOUNDATION -HORIZONTAL VERTICAL ALLOWABLE LOADS: PIERS AS RECOMMENDED BY PAD ROTATED 90 DEGREES OR THE MANUFACTURER OR THE 6000# 2200# OFFSET TO OTHER SIDE TO AVOID CLEARANCE PROBLEMS. TUF-1 ENGINEER. TYPICAL THROUGHOUT 2200# 6000# E-Z TIE PAD DURING PRELIMINARY INSPECTION, THE ESTIMATOR SHALL ENSURE THAT MOBILE HOME CHASSIS BEAMS ARE OF STANDARD SECTION. REV. DATE 2-22-10 9. EXISTING COACHES MAY BE RETROFITTED TO RESIST SEISMIC FORCES BY APPROVA INSTALLING ABESCO TUF-1 UNITS AS SHOWN ON THIS PAGE OF TYPICAL FOUNDATION PLANS. FOUNDATION SYSTEM 10. THE TUF-1 SYSTEMS ARE SAFE FOR INSTALLATION IN FLOOD EG/S) **HEALTH AND SAFETY CODE, SECTION 18551** PLAIN AREAS WHERE DEPTH OF FLOODING DOES NOT EXCEED THE HEIGHT APPROVED OF THREE FEET. 11. MULTIPLE UNIT INSTALLATION IS ACCEPTABLE PROVIDED THE NUMBER OF TUF-1 UNITS UNDER EACH UNIT IS THE SAME AS SHOWN REQUIRED PER EACH UNIT. APPROVAL DOES NOT AUTHORIZE OR APPROVE ANY 12. SINGLE WIDE UNITS REQUIRE 4 E-Z TIE PADS-ONE ON EACH OMISSIONS OR DEVIATION FROM REQUIREMENTS OF OF CALIF CORNER OF THE HOME. (SEE SHEET #4). HOMES WITH 2 OR MORE MODULE UNITS DO NOT REQUIRE THE E-Z TIE PADS. APPLICABLE STATE LAWS AND REGULATIONS State of California ALL METAL COMPONENTS AND ATTACHMENT ITEMS SHALL BE PROTECTIVE COATED. EXISTING CONCRETE SLAB TO BE MIN. 35 Department of Housing and Community Development THICK AND MIN. 4'x4' IN SIZE. TUF-1 PERMANENT 14. WHEN CONCRETE SLAB IS IN EXISTANCE, PAD IS NOT FOUNDATION SYSTEM REQUIRED. ANCHOR STAND TO CONCRETE SLAB WITH FOUR (4) 1/2"x 3 1/2" EXPANSION ANCHORS. (signature) 15. TUF-1 FOUNDATION SYSTEM PROVIDES ABESCO ALLOWABLE SNOW LOAD TO 100 PSF WHEN INSTALLED 5851 FLORIN-PERKINS ROAD WITH EXISTING STANDARDS REQUIRED BY COACH This Plan Approval Expires SACRAMENTO, CA 95828

(800)382-8831 Toll Free

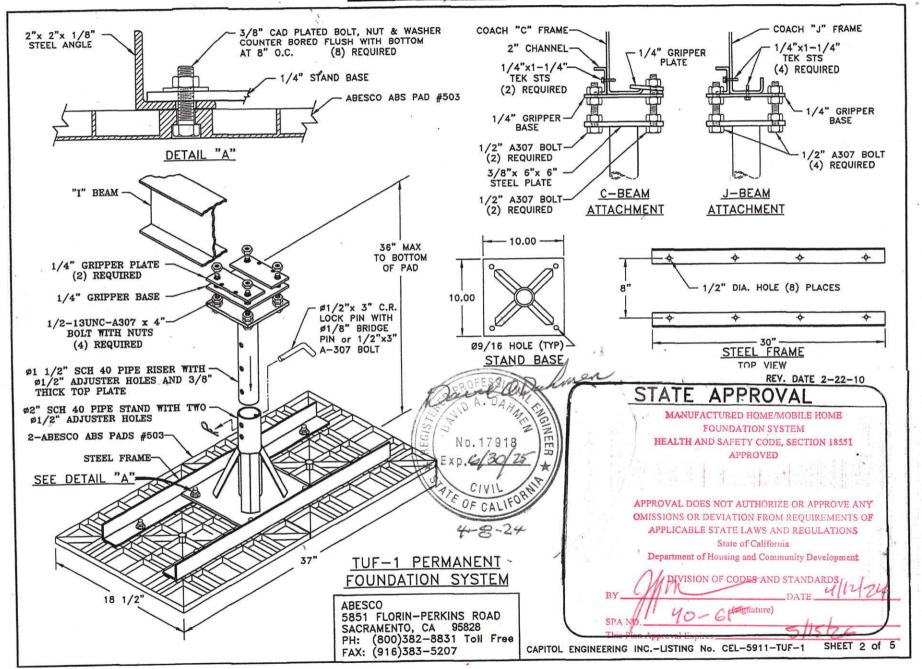
FAX: (916)383-5207

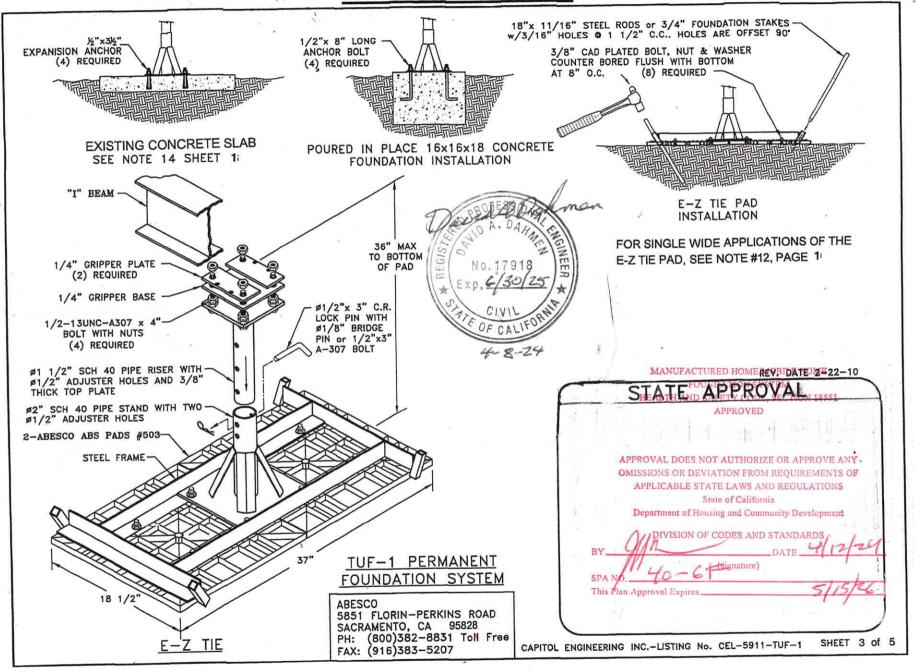
MANUFACTURER & REQUIRED VERTICAL SUPPORTS MAY

BE REPLACED W/ A TUF-1 STANCHION.

CAPITOL ENGINEERING INC.-LISTING No. CEL-5911-TUF-1

SHEET 1 of 5





SINGLE WIDE HOME WITH ROOF LOADS TO 60 PSF AND WINDS TO 130 MPH EXP. C

LENGTH OF HOME	NUMBER FOR HO	OF TU	IF-1's REQUIRED) 16' WIDE
UP TO 38'		4	
38'-1" to 60'		6	
60'-1"to 80	•	8	

SINGLE WIDE HOMES REQUIRE 4 - EZ TIE PADS 1 AT EACH CORNER

SINGLE WIDE HOME WITH A ROOF SNOW LOAD TO 100 PSF AND WINDS TO 130 MPH EXP. C

LENGTH OF HOME	FOR HO	MES TO	JF-1's REQUIRED 16' WIDE
UP TO 38'		16	
38'-1" to 60'		8	
38'-1" to 60' 60'-1" to 80		10_	

MULTI WIDE HOME WITH ROOF LOADS TO 30 PSE AND WINDS TO 110 MPH EXP. C

LENGTH OF	TOTAL NUMBER OF TUF-1'S REQUIRED FOR GIVEN WIDTH OF HOME						
HOME	24'	26'	28'	34'	44!		
UP TO 44'	4	6	6	6	8		
44'-1" to 66'	6	8	8	8	12		
66'-1" to 80'	8	8	10	10	14		

MULTI WIDE HOME WITH ROOF SNOW LOAD TO 30 PSF AND WINDS TO 130 MPH EXP. C

LENGTH · OF	FOR GIVEN WIDTH OF HOME				
HOME	24'	26'	28'	34'	44'
UP TO 44'	6	6	6	6	8
44'-1" to 66'	8	8	8	8	12
66'-1" to 80'	10	10	10	10	14

MULTI WIDE HOME WITH ROOF SNOW LOAD OF 60 PSF AND WINDS TO 130 MPH EXP. C

LENGTH OF	TOTAL NUMBER OF TUF-1'S REQUIRED FOR GIVEN WIDTH OF HOME					
HOME	24"	26'	28'	34'	44'	
UP TO 44'	6	6	6	8	10	
44'-1" to 66'	8	10	10	10	14	
66'-1" to 80'	10	12	12	14	18	

MULTI WIDE HOME WITH ROOF SNOW LOAD OF 100 PSF AND WINDS TO 130 MPH EXP. C

LENGTH OF	TOTAL NUMBER OF TUF-1's REQUIRED FOR GIVEN WIDTH OF HOME					
HOME	24'	26'	28'	34'	44'	
UP TO 44'	8	8	8	10	12	
44'-1" to 66'	10	10	12	14	18	
66'-1" to 80'	12	14	14	16	22	

NOTE:

THE FOUNDATION SYSTEM IS DESIGNED FOR THE TUF-1 STANCHONS TO BE PLACED ON THE OUTSIDE CHASSIS BEAMS OF THE MULTI-WIDE HOMES. THE TOTAL NUMBER OF TUF-1 STANCHONS REQUIRED, CAN BE PLACED ON THE OUTSIDE OF THE INNER CHASSIS BEAMS AT EACH MODULE_SO LONG AS THE MAXIMUM SPACINGS SHOWN ON SHEET #11ARE NOT EXCEEDED.



TUF-1 PERMANENT FOUNDATION SYSTEM

ABESCO 5851 FLORIN-PERKINS ROAD SACRAMENTO, CA 95828 PH: (800)382-8831 Toll Free FAX: (916)383-5207 MANUFACTURED HOME/MORILE HOME 2-22-10

AND SAIA POR OVALS

APPROVAL DOES NOT AUTHORIZE OR APPROVE ANY
OMISSIONS OR DEVIATION FROM REQUIREMENTS OF
APPLICABLE STATE LAWS AND REGULATIONS
State of California

Department of Housing and Community Development

BY DATE Y

SPA NO (Silenture)

This Plan Approval Expires

This Plan Approval Expires ______

CAPITOL ENGINEERING INC.-LISTING No. CEL-5911-TUF-1 SH

SHEET 4 of 5

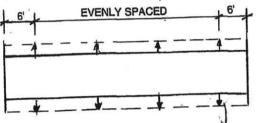
MANUFACTURED HOME/MOBILE HOME FOUNDATION SYSTEM

OMISSIONS OR DEVIATION FROM REQUIREMENTS OF APPLICABLE STATE LAWS AND REGULATIONS State of California

Department of Housing and Community Development

IVISION OF CODES AND STANDARDS

SINGLE	
MFG'D HOME	No. OF TIE DOWNS EACH SIDE
12' to 56'	3
12' to 57' / 70'	4
14' to 74'	4
16' to 74'	4



MULTI -	WIDES
MFG'D HOME SIZE	No. OF TIE DOWNS EACH SIDE
20' to 50'	3
20' to 51' / 60'	4
24' t0 50'	3
24' to 51' / 66'	5
28' to 60'	5
28' to 61' / 74'	6
40' to 60'	7
40' to 61' / 66'	8 .
40' to 67' / 74'	9
	-

EVENLY SPACED

FOR INSTALLATIONS IN FLOOD HAZZARD ZONES A, AE & AH INSTALL MIN 3150 LB. TIE DOWN STRAPS AND MIN 48" EARTH AUGERS

ABESCO #603 48" T.D.A. AS SHOWN ON THE ABESCO ETS 106C



FOR PLACEMENT IN FLOOD HAZZARD AREAS

WHEN PERIMETER SKIRTING IS INSTALLED, PLACE THE UNDERFLOOR VENTS SO THE BOTTOM OF THE VENT IS MAX 12" ABOVE THE UNDERFLOOR **GROUND SURFACE**

ABESCO-5851 FLORIN - PERKINS ROAD SACRAMENTO, CA 95828 PH: (800), 382-8831

FAX: (916) 383-5207

CAPITOL ENGINEERING INC.-LISTING No. CEL-5911-TUF-1

SHEET 5 of 5