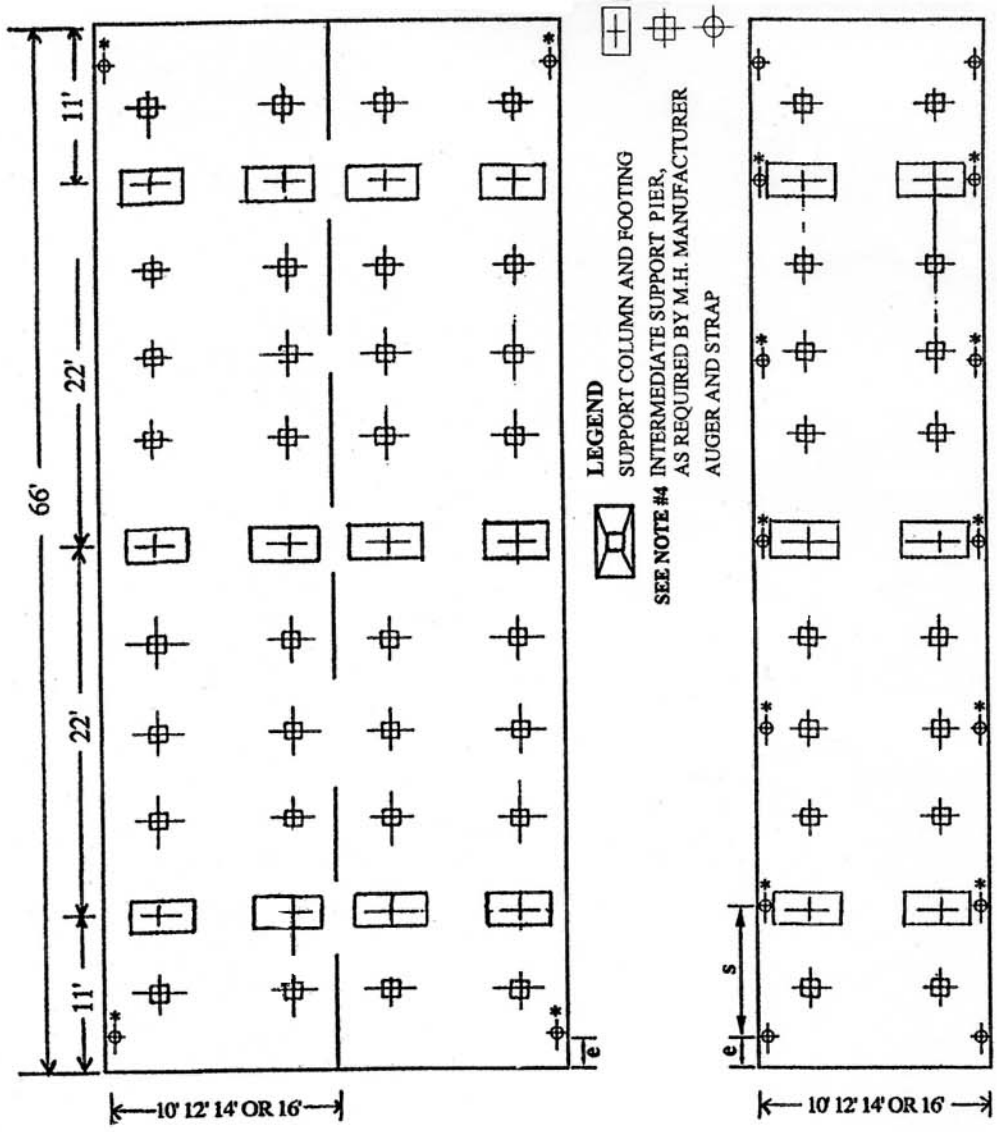


# PERMANENT FOUNDATION SYSTEM



### INSTALLATION INSTRUCTIONS

- INSTALL FOUNDATIONWORKS FOOTINGS AND SUPPORT COLUMNS TO SPACING, PER THIS SHEET.
  - FOUNDATION FOR CHASSIS BEAM SUPPORT SHALL BE LOCATED AND SIZED FOR THE LOADS, AS SHOWN BY MANUFACTURED HOME INSTALLATION INSTRUCTIONS.
  - LEVEL SOIL AND PLACE REINFORCED PRECAST CONCRETE FOOTING BELOW MANUFACTURED HOME, AS PER LAYOUT ON THIS SHEET. SAND OR 1/4" MINUS MAY BE USED TO FILL IN VOIDS UNDER FOOTINGS, WHERE GROUND IS UNEVEN.
  - SINGLE AND DOUBLE UNITS: PREFERRED FOOTING ORIENTATION, WHERE EVER POSSIBLE, IS THAT THE LONG DIMENSIONS OF THE FOOTINGS BE IN THE TRANSVERSE DIRECTION. UP TO ONE-HALF OF THE FOOTINGS MAY BE ROTATED SO THAT THE LONG DIMENSIONS OF THE FOOTINGS ARE PARALLEL TO THE MAIN FRAME, DUE TO SITE OR SET-UP CONDITIONS.
  - SET SUPPORT COLUMN TO ITS LOWEST SETTING, PLACE IT ON CONCRETE FOOTING AND ATTACH IT TO FOOTING WITH 1/4" BOLTS.
  - RAISE TOP SECTION OF SUPPORT COLUMN UNTIL IT TOUCHES BOTTOM CHASSIS BEAM, THEN LOWER UNTIL HOLES LINE UP FOR ADJUSTING BOLT. INSTALL 3/4" BOLT THROUGH SUPPORT COLUMN THEN TIGHTEN.
  - TURN LARGE NUT UNDER HEAD UNTIL PLATE CONTACTS BEAM. INSTALL 2 CLAMP PLATES AND TIGHTEN FIRMLY.
  - FOR FINAL FINE ADJUSTMENT AND LOAD TRANSFER TO FOOTING AND SUPPORT COLUMNS, TURN LARGE NUT UNDER HEAD.
- c 5' maximum  
s 22' maximum  
\* needed for Exposure C only

### BEAM SIZE NOTES

SPACING SHOWN ON THIS PLAN ARE FOR HOMES WITH 10" AND 12" BEAMS.

ANY 6"-9" CHASSIS BEAM IS NOT TO CANTILEVER MORE THAN 8' ON EACH END OF UNIT. SPACING OF FOUNDATIONWORKS FOOTINGS AND SUPPORT COLUMNS CANNOT EXCEED 16'0".

### HOME LENGTHS NOTES

**DOUBLE-WIDE:**  
WINDS 80 MPH EXPOSURE C  
UP TO 44': 8 FOOTINGS & COLUMNS  
45' - 66': 12 FOOTINGS & COLUMNS  
66' - 72' (MAX): 16 FOOTINGS & COLUMNS

**SINGLE-WIDE:**  
WINDS 80 MPH EXPOSURE C  
UP TO 44': 4 FOOTINGS & COLUMNS  
45' - 66': 6 FOOTINGS & COLUMNS  
66' - 72' (MAX): 8 FOOTINGS & COLUMNS

### TIE DOWN NOTES

SINGLE-WIDE HOMES SHALL HAVE AN AUGER AND STRAP-TYPE TIE-DOWN, PLACED AS SHOWN ON SINGLE-WIDE PLAN.

TIE-DOWNS SHALL BE AN AUGER AND STRAP-TYPE RATED FOR A MINIMUM OF 4250 LB. PULLOUT.

DOUBLE-WIDE HOMES IN 80 MPH WIND AREAS WITH EXPOSURE C, THAT WEIGH MORE THAN 50600 LBS., OR ARE CONSTRUCTED WITH COMPOSITION ROOFING AND SHEETROCK CLADDED WALLS, DO NOT NEED THE FOUR TIE-DOWNS SHOWN ON THE PLAN.

SINGLE-WIDE HOMES IN 80 MPH WIND AREAS WITH EXPOSURE B, NEED TIE-DOWNS AT EACH CORNER ONLY.

AUGER TIE-DOWNS SHALL BE LISTED AND INSTALLED IN ACCORDANCE WITH THE AUGER TIE-DOWN MANUFACTURER'S INSTALLATION INSTRUCTIONS.

AUGER TIE-DOWN LISTING AND INSTALLATION INSTRUCTIONS SHALL BE SUBMITTED WITH THIS PLAN, AND PERMIT APPLICATION IF INSTALLATION OF AUGER TIE-DOWNS ARE REQUIRED (SEE TIE-DOWN NOTES) OF THIS PLAN.

### GENERAL NOTES

**DESIGN LOADS:**  
ROOF LOAD - 30 PSF  
FLOOR LOAD - 40 PSF

**DOUBLE-WIDE:**  
WIND 80 MPH EXPOSURE C  
SEISMIC ZONE 4

**SINGLE-WIDE:**  
WIND 80 MPH EXPOSURE C  
SEISMIC ZONE 4

WITH 4 TIE-DOWNS THE DESIGN LOADS SHALL BE CONSISTENT WITH ROOF LIVE LOAD, WIND LOAD AND SEISMIC ZONE AS ESTABLISHED FOR PERMANENT BUILDINGS WITHIN A SPECIFIC LOCAL AREA.

THIS FOUNDATION IS DESIGNED TO BE CONSTRUCTED ON SITES WITHOUT EXISTING SOIL PROBLEMS. FOOTINGS ARE DESIGNED FOR 1000 PSF SOIL AND SHALL BE COMPATIBLE WITH LOCAL SOIL CONDITIONS.

IN AREAS WHERE SETTLEMENT OR EXPAN-SIVE SOILS OCCUR, MANUFACTURED HOMES SHOULD BE RE-LEVELLED WHEN IT MAY ADVERSELY AFFECT THE MANUFACTURED HOME.

FOR TRIPLE-WIDE AND WIDER HOMES, USE THE LAYOUT FOR EACH SECTION, AS SHOWN FOR EACH SECTION OF A DOUBLE-WIDE HOME OF THE SAME LENGTH.

INSTALLATION NEAR ASCENDING AND DESCENDING SLOPES SHALL BE IN ACCORDANCE WITH UBC SECTIONS 1806.5.2 AND 1806.5.3, UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT RECOMMENDS OTHERWISE.

### SPECIFICATIONS

WELD ACCORDING TO A.W.S.D. 1.1-98 SPECIFICATIONS  
A.W.S. SOLID WIRE ER70S-6  
PLATES A.S.T.M. A36  
PIPE SCHEDULE 40  
SUPPORT COLUMN BOLTS S.A.E. GRADE 5  
FOOTINGS 3000 PSI @ 28 DAYS LIGHT-WEIGHT REINFORCED CONCRETE

FOUNDATIONWORKS SUPPORT ASSEMBLIES SHALL BE COATED WITH FOREST TECHNICAL COATINGS CHASSIS PAINT 88-E-203 OR EQUIVALENT.

### TESTING

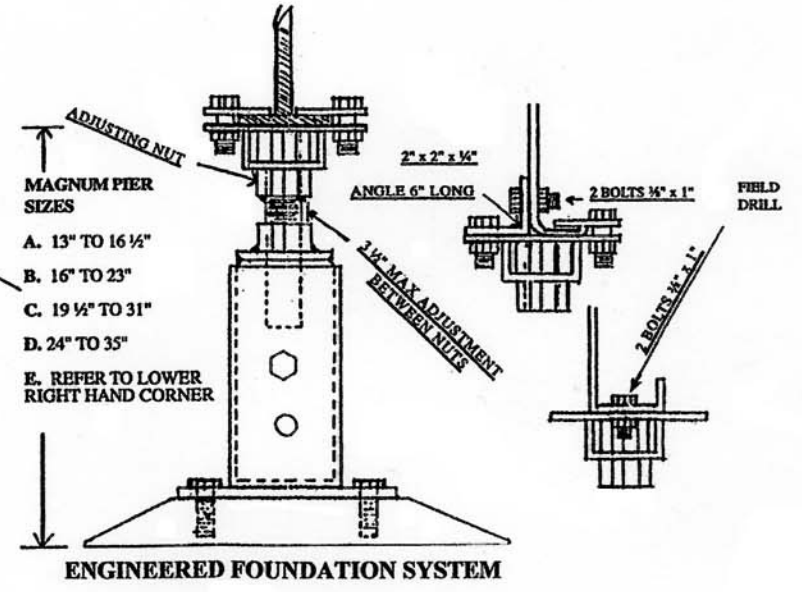
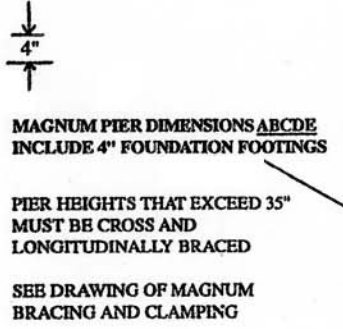
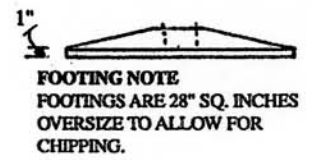
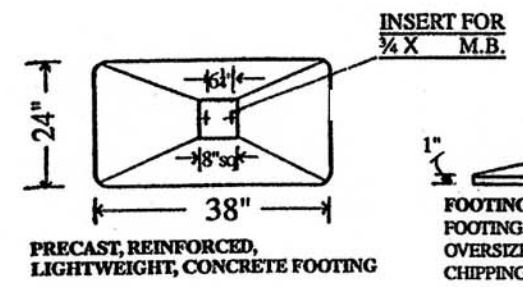
TESTS PERFORMED BY: PSI LAB #689-36125-1  
MAX VERTICAL TEST LOAD: 40000 LBS.  
RATED VERTICAL CAPACITY: 13333 LBS.  
RATED LATERAL CAPACITY AT 25" MAX HEIGHT IS 4733 LBS.  
RATED LATERAL CAPACITY AT 24" - 35" MAX HEIGHT IS 3800 LBS.

### CERTIFICATION:

THIS IS TO CERTIFY THAT THE SUBJECT SYSTEM IS CAPABLE OF WITHSTANDING ALL RATED DESIGN LOADS. THIS CERTIFICATION IS PREDICATED UPON THE PROPER INSTALLATION AND TIGHTENING OF THE SUPPORT COLUMNS.

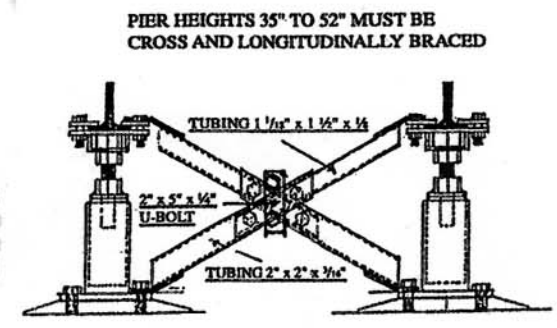
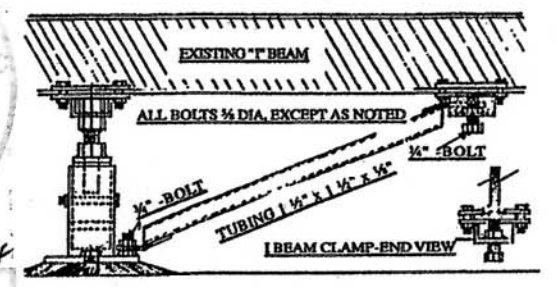
### SPECIAL CONDITIONS

PLEASE CONTACT FOUNDATIONWORKS, INC. FOR INFORMATION ON ANY OF THE FOLLOWING CONDITIONS:  
SNOW LOAD OVER 30 PSF  
FLOOD PLAIN LOCATION



ENGINEERED FOUNDATION SYSTEM

FOUNDATIONWORKS, INC.  
DRAWING NUMBER MFS-22F  
MODEL NUMBER MFS-01F



U.S. PATENT # 5,862,635

FOUNDATIONWORKS, INC.  
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