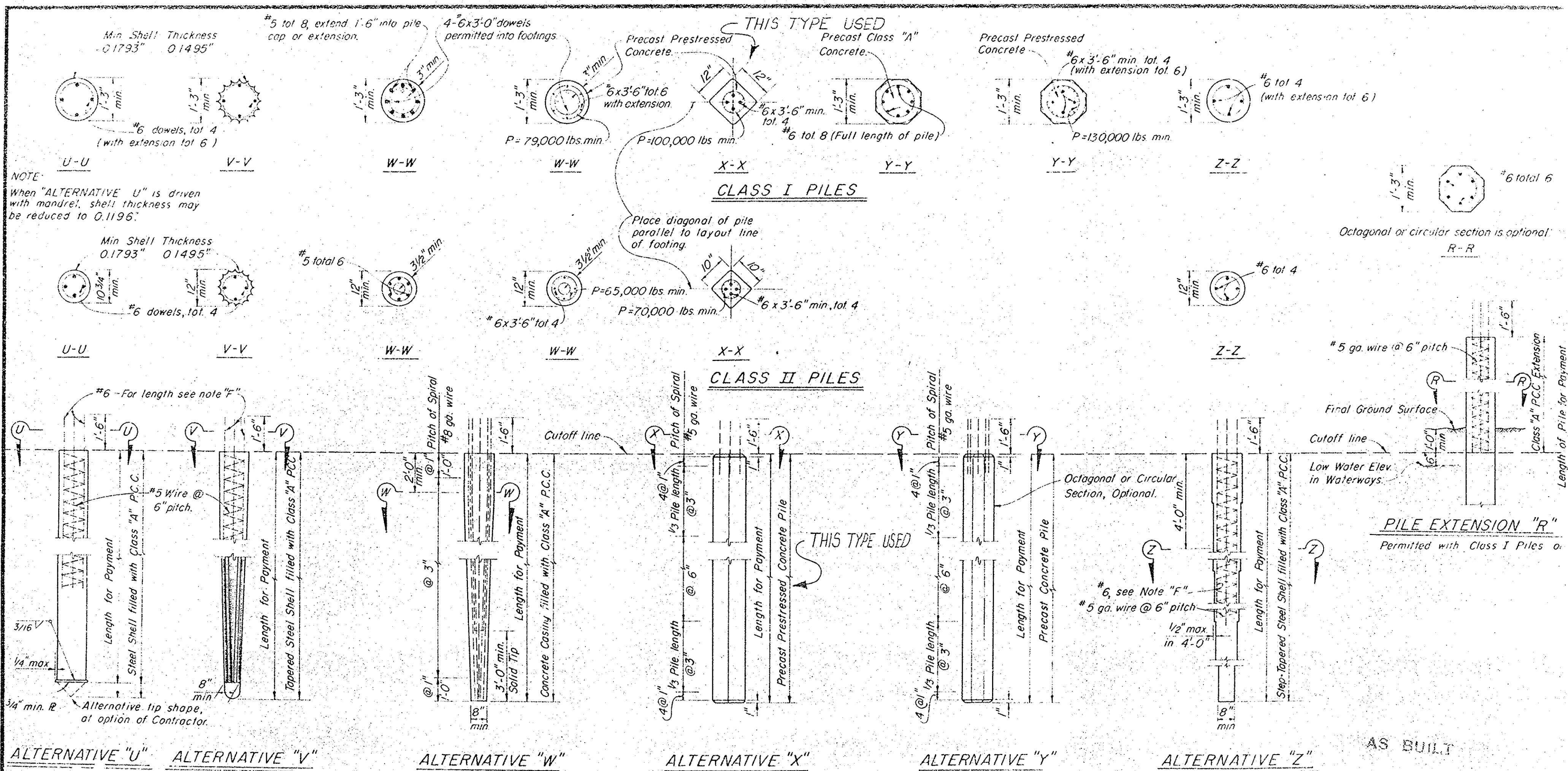


EXACT®

EXACT LEVEL & TOL. H.P. CO. INC.

HIGH BRIDGE N. J., U. S. A.

STRAIGHT EDGE RULE SE-48



NOTE: When "ALTERNATIVE U" is driven with mandrel, shell thickness may be reduced to 0.1196".

NOTE "F": In Alternative "U", "V" & "Z" the No. 6 bars shall extend a minimum of 12' below the lowest of the following:

- Bottom of footing.
- Top of final ground surface.
- Top of original ground surface when piles are driven through fills.

PRECAST PRESTRESSED PILES:

If section used is larger than the min section shown, then "P" shall provide 700 psi min. Concrete Stress: f_c @ 28 days = 6,000 p.s.i. (Alternative "X")

4,500 p.s.i. (Alternative "Y")

5,000 p.s.i. (Alternative "W")

Alternative "X" may not extend above ground line nor be used with pile extension "R".

Unless indicated to the contrary all piles shall be Class I piles. Class I piles may be substituted for Class II piles.

A 10" minimum diameter pipe extension (thickness: 0.1793" min.) may be used at the tip of Alternatives "V" or "Z" when taper is 30' or more in length.

All dowels or bars extending into slab or footing having a depth less than 2'-0" shall be hooked.

DESIGN LOADING = 45 TONS

T-3041 (45)

ORANGE COUNTY ROAD DEPARTMENT

GARDEN GROVE BLVD.
BRIDGE SA-18
OVER
SANTA ANA RIVER

PIILING DETAILS

AS NOTED

10644