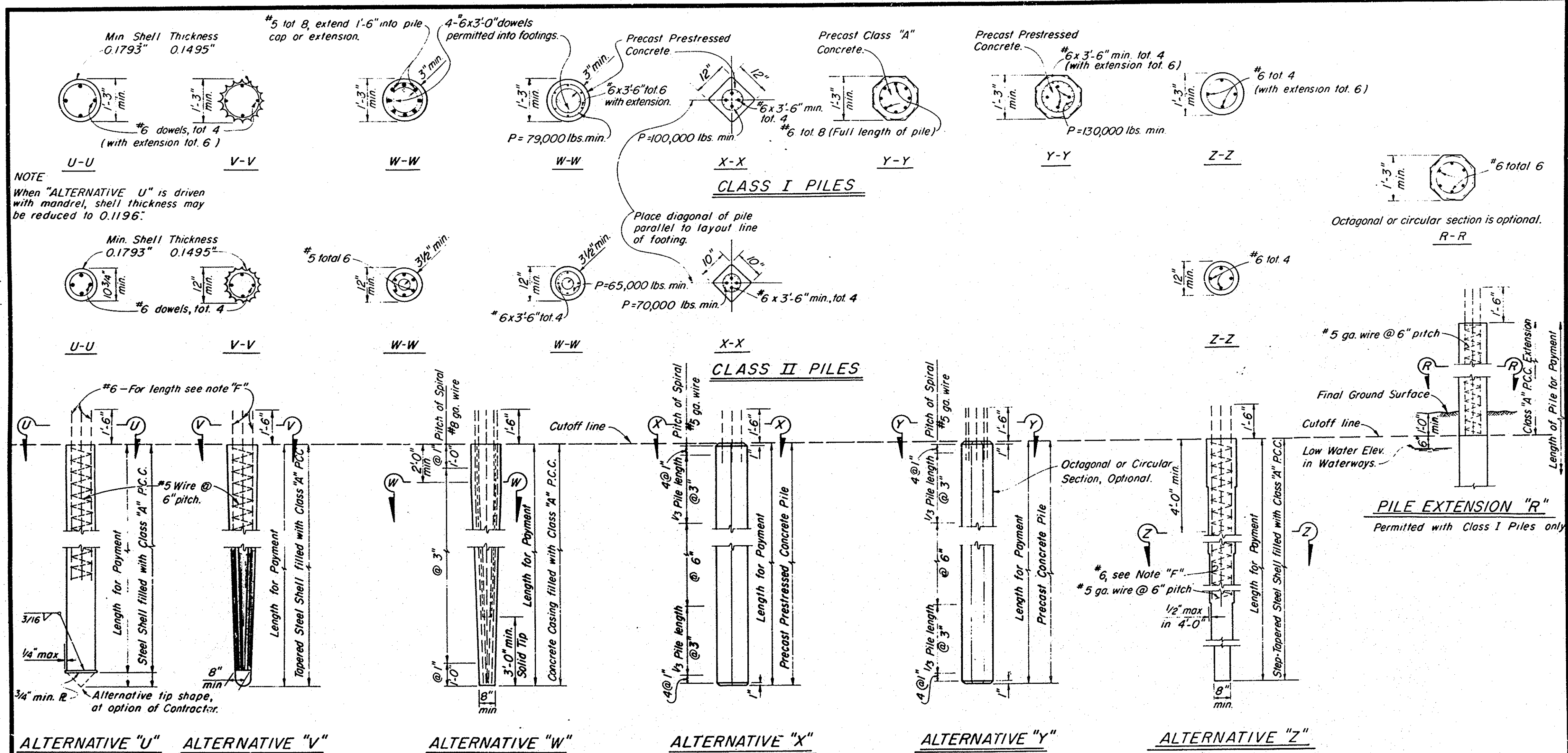




PILE NOTES:

Alternatives "W" and "Y" may be driven full length or may be extended. All exposed piles or pile extensions shall be consistent in cross-section throughout the project.

PRECAST PRESTRESSED PILES:

If section used is larger than the min. section shown, then "P" shall provide 700 psi min.

P = Prestressing Force (After losses)

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".

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

1. Bottom of footing.
2. Top of final ground surface.
3. Top of original ground surface when piles are driven through fills.

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

WARNER AVE BRIDGE WIDENING SA-30A

ACROSS SANTA ANA RIVER

PILE DETAILS

NONE