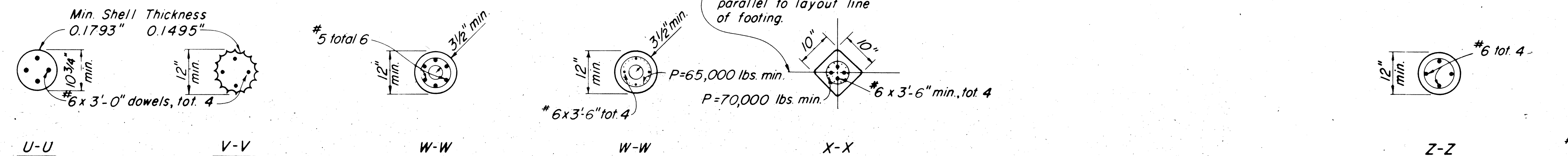
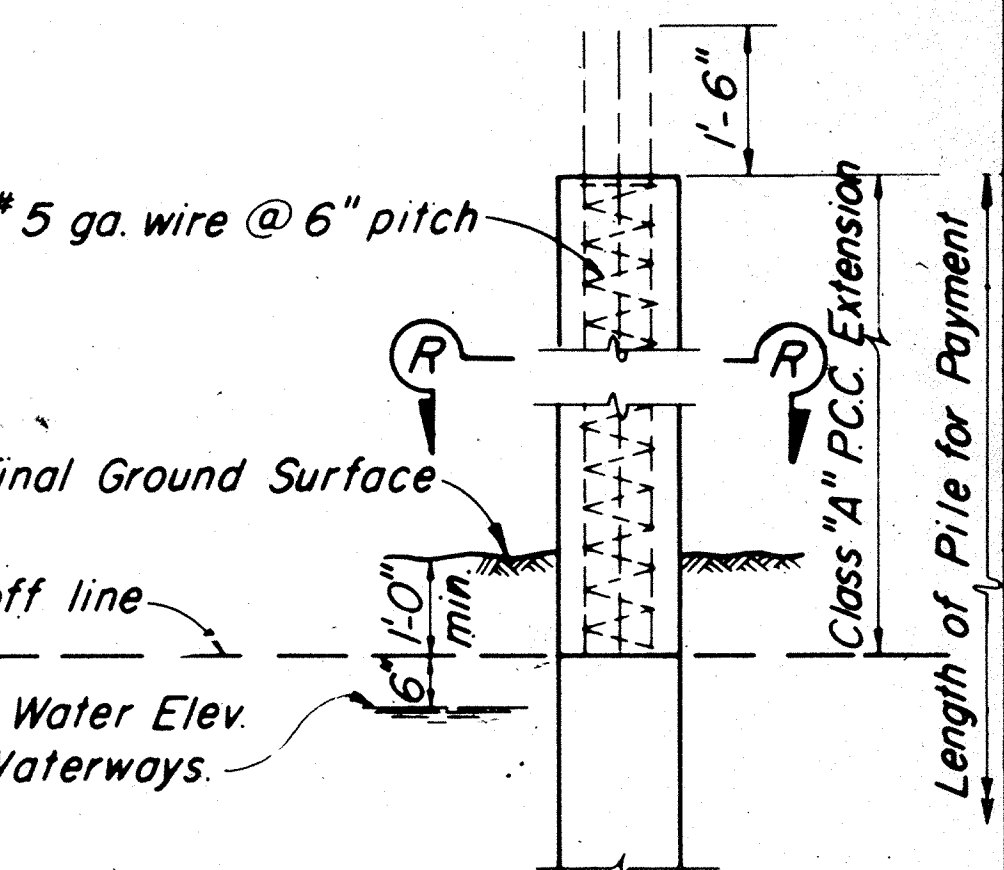
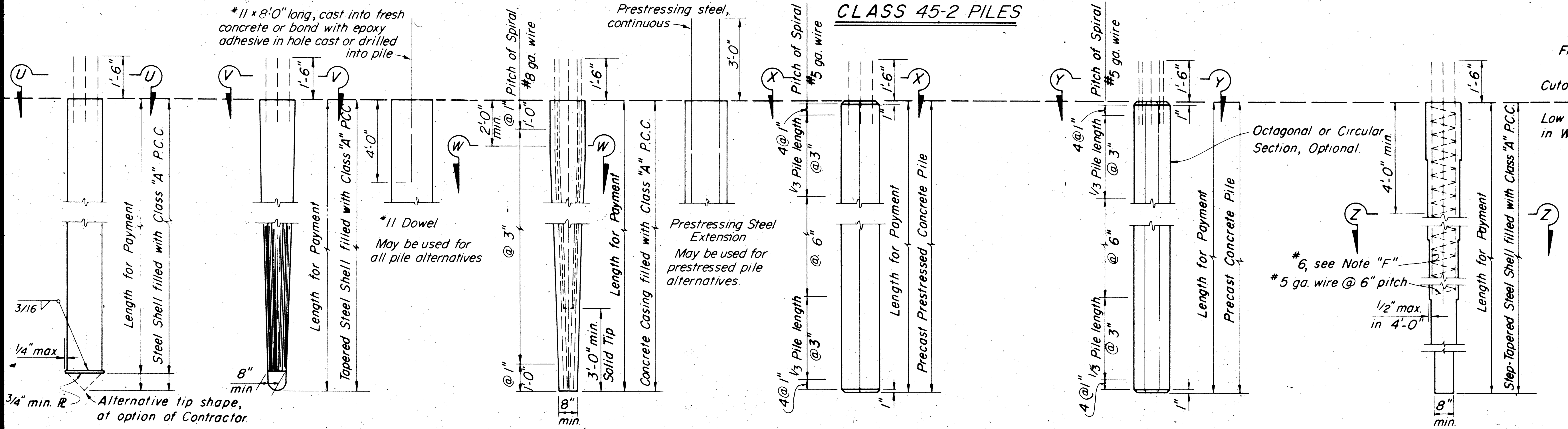


NOTE:
When "ALTERNATIVE U" is driven with mandrel, shell thickness may be reduced to 0.1196."

CLASS 45-1 PILES



CLASS 45-2 PILES



PILE EXTENSION "R"
Permitted with Class 45-1 Piles only.
In waterways extend the reinforcement shown 4' below ground line for Alternatives "U" and "V".

ALTERNATIVE "U" ALTERNATIVE "V" ALTERNATIVE "W" ALTERNATIVE "X" ALTERNATIVE "Y" ALTERNATIVE "Z" CORRUGATED ALTERNATIVE "Z"

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:

P = Prestressing Force (After losses) shown, then "P" shall provide 700 psi min.
Concrete Strength: 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".

*11 Dowel or Prestressing Steel Extension shall be used only with footings below ground line.

NOTE F: In Alternative "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.
 4. Bottom of predrilled holes greater than pile diameter.
- Unless indicated to the contrary all piles shall be class 45-1.

Class 45-1 piles may be substituted for Class 45-2 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

AS BUILT

(11097)
LOS ALISOS BLVD BRIDGE
Sheet 16 of 18
Red. 22.5:1
Crawley

ORANGE COUNTY ROAD DEPARTMENT	
LOS ALISOS BLVD. BRIDGE AL-12 OVER ALISO CREEK	
PILING DETAILS	
DATE: 11/1/77 BY: [Signature] CHECKED: [Signature] APPROVED: [Signature]	SCALE: NO SCALE SHEET: 16 OF 17

(11097)