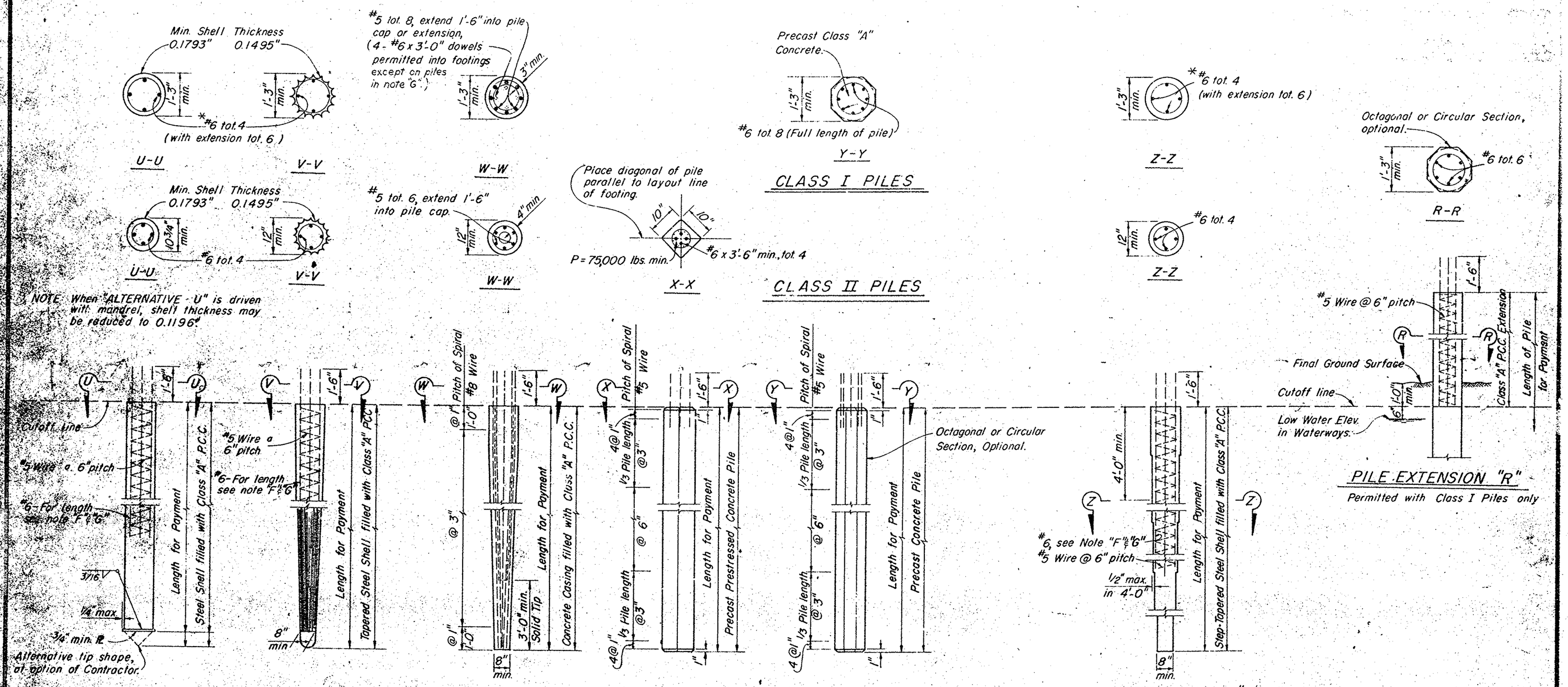
EXACT® EXACT LEVEL & TOOL MFG. CO. INC. HOHOKUS, N.J., U.S.A. STRAIGHT EDGE RULE SE-48



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

10" min. dia. pipe extension may be used at the tip when step taper is 30' or more in length.

Minimum thickness of pipe extension = 0.1793".

PILE NOTES

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

Alternatives "X" & "Y" (Precast Prestressed)
P = Prestressing Force (after losses)
Concrete stress:
f'c = 6,000 p.s.i. (Alt. "X"); 4,500 p.s.i. (Alt. "Y") @ 28 days
f'ci = 3,500 p.s.i. @ transfer (3/8" strand)
f'ci = 4,000 p.s.i. @ transfer (7/16" strand and 1/2" strand)

Note (*) In Alternatives "U", "V" & "Z" the #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.

Class I Piles may be substituted for Class II Piles.

Unless indicated to the contrary all piles shall be Class I Piles.

Alternative "X" may not extend above ground line nor be used with Pile Extension "R".

*Note "G": Use #8 in lieu of #6 for Tot. 14 piles as noted in plans, sht. #5, 8, & 9.

TEST PILES
PLACE 4-#8 FULL LENGTH OF PILE, TENSION PILES ONLY, ALTERNATIVES "U", "V" & "Z", IN ADDITION TO REINF. SPECIFIED ABOVE. TOTAL 2 PILES

AS BUILT

DESIGN LOADING = 45 TONS

MICROFILMED JUN 12 1969

ORANGE COUNTY ROAD DEPARTMENT
BALL ROAD BRIDGE SA-12 ACROSS SANTA ANA RIVER
PILE DETAILS
SCALE NONE