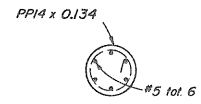
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

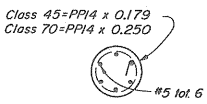
REGISTERED CIVIL ENGINEER

July 1, 1992
PLANS APPROVAL DATE

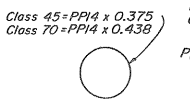
REGISTERED PROFESSIONAL ENGINEER — T. Pollock — No. 13332 — Exp. 3-31-93 — CIVIL — STATE OF CALIFORNIA



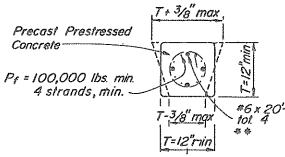
SECTION U-U
(Mandrel driven)



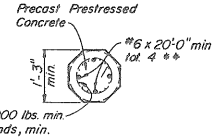
SECTION V-V



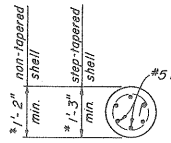
SECTION W-W



SECTION X-X



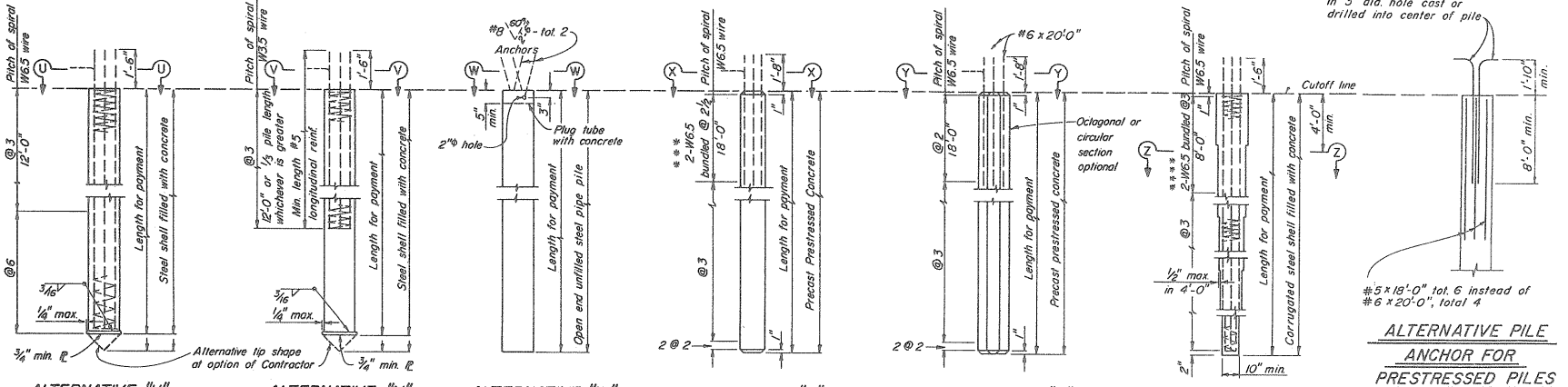
SECTION Y-Y



SECTION Z-Z

**To be in place when pile is cast.

*Measured out to out of corrugations.



*** WH at 2 may be substituted

**** WII at 2 ½ may be substituted

PRECAST PRESTRESSED PILES:

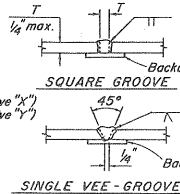
P_f = Prestressing Force (after losses)

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

Concrete Strength: f'c @ 28 days = 6,000 psi (Alternative "X")
5,000 psi (Alternative "Y")
f'ci @ transfer = 4,000 psi

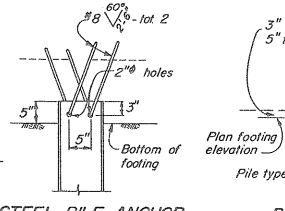
DESIGN LOADING

Class 45 = 45 tons
Class 70 = 70 tons



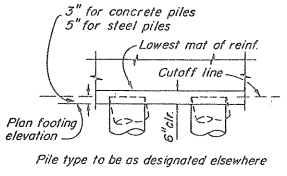
PILE WELDING DETAIL - BUTT JOINTS

Notes:
1. Single Vee-Groove and Square Groove permitted for all positions.
2. Single Bevel-Groove permitted for horizontal joints only.



STEEL PILE ANCHOR

Steel piles, except for "Alternative W", to be used only when shown on plans or permitted by the Special Provisions.



Pile type to be as designated elsewhere

PILE EMBEDMENT

Notes:

1. Details are the same for both Class 45 and Class 70 piles unless noted otherwise.
2. A 10" minimum diameter pipe extention (thickness = 0.179" minimum for Class 45 and 0.250" minimum for Class 70) may be used at the tip of Alternative "Z" when taper is 30' or more in length.
3. For steel shells and pipe piles (PP) shown, the Contractor has the option of substituting piles with equivalent cross section, wall thickness and section modulus.
4. Pile reinforcement and steel pile anchor reinforcement extending into a footing shall be hooked as required to provide clearance to top of footing. Piles shall be extended only in accordance with details shown elsewhere in these plans.
5. Lapped splices in spiral pile reinforcement shall be lapped 80 wire diameters minimum. Spiral pile reinforcement at splices and at ends shall be terminated by a 135° hook with 6" tail hooked around a longitudinal bar or strand.
6. 2" clearance to spiral reinforcement shall be maintained if section used is larger than the minimum section shown.
7. Maximum cut-off length at the top of the Alternative "X" and Alternative "Y" Piles is 10'-0".

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PILE DETAILS CLASS 45 AND CLASS 70

NO SCALE

B2-5

130

STD. PLAN B2-5