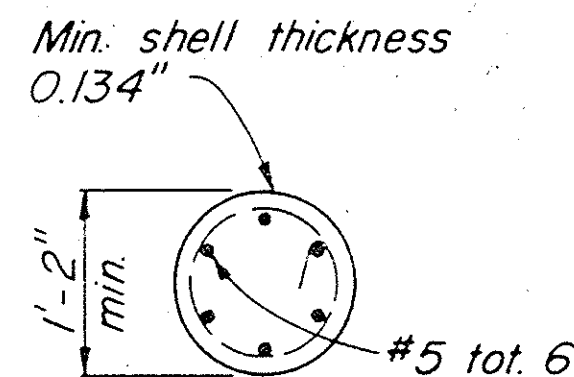
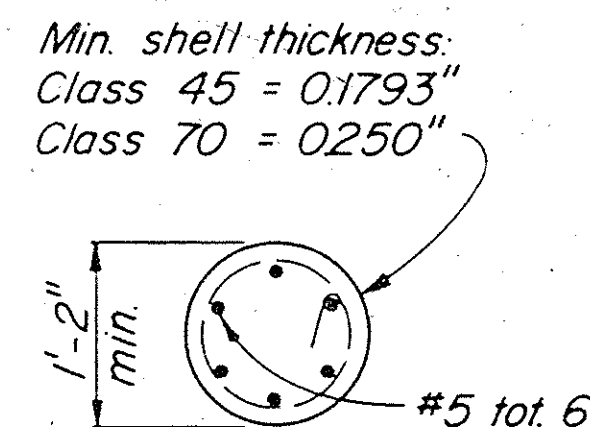
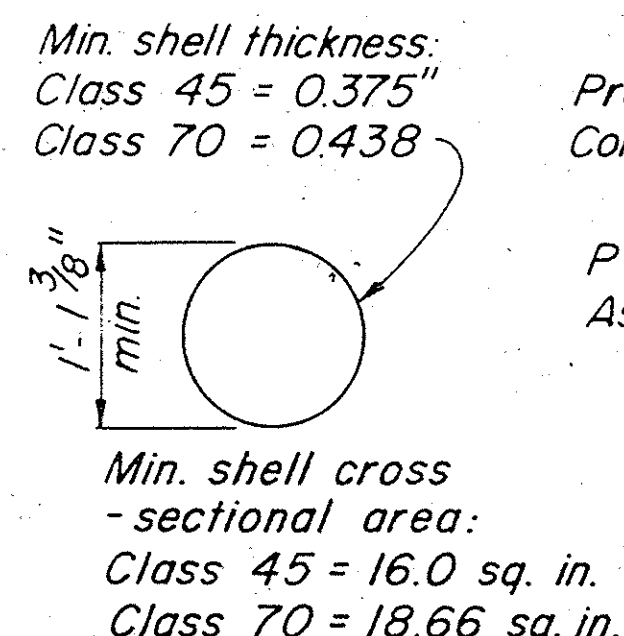




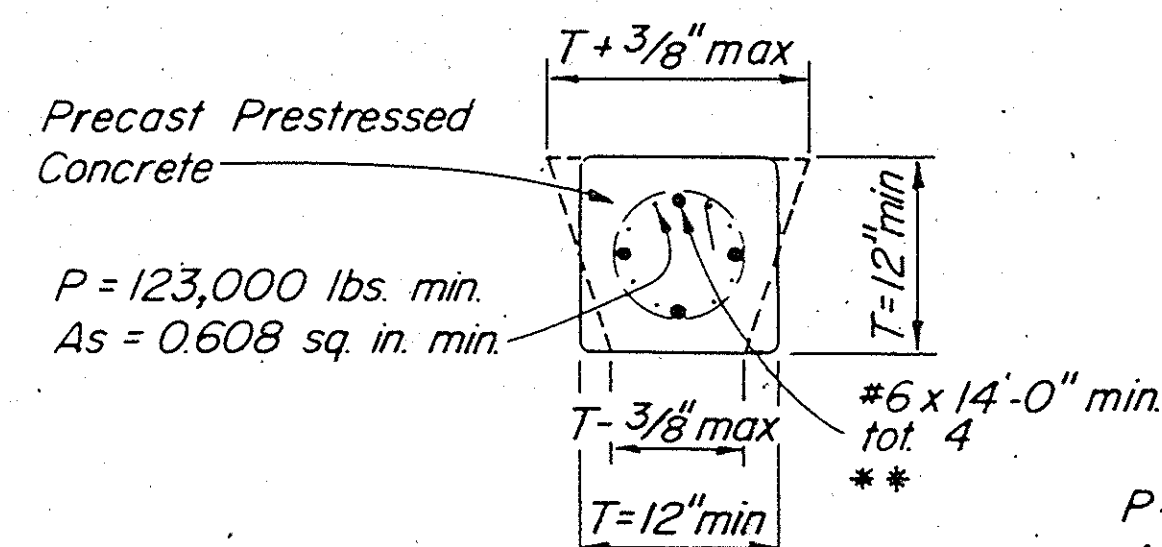
SECTION U-U
(Mandrel driven)



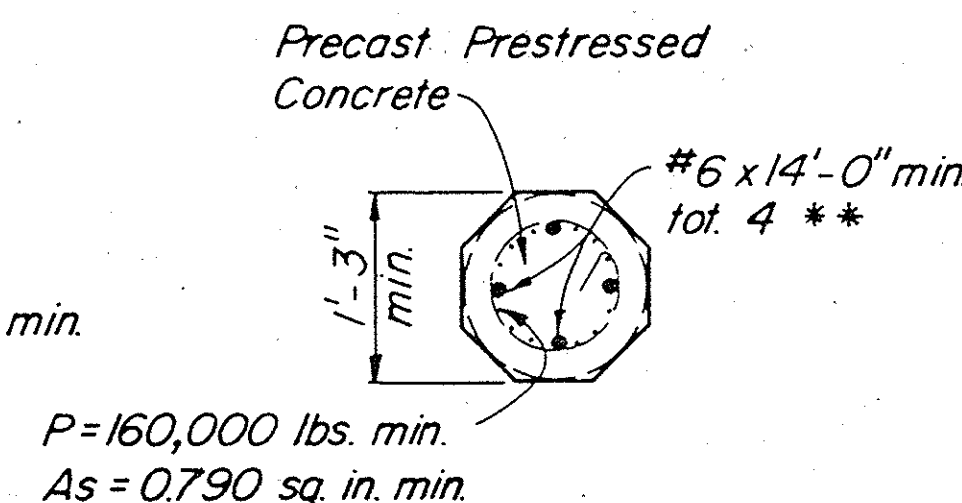
SECTION V-V



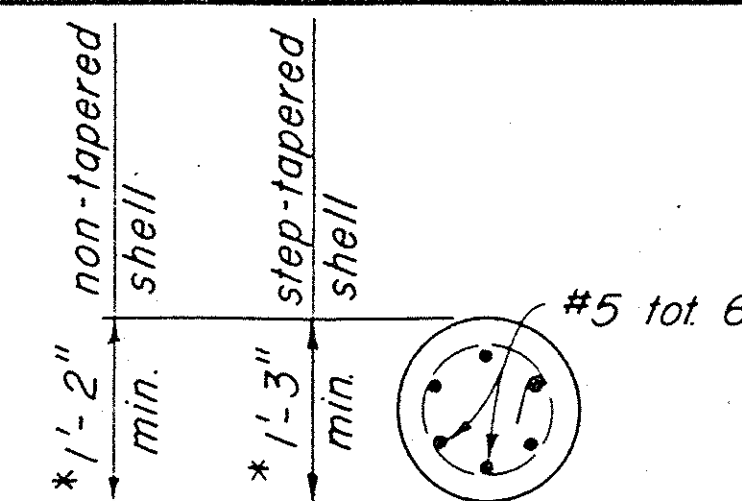
SECTION W-W



SECTION X-X



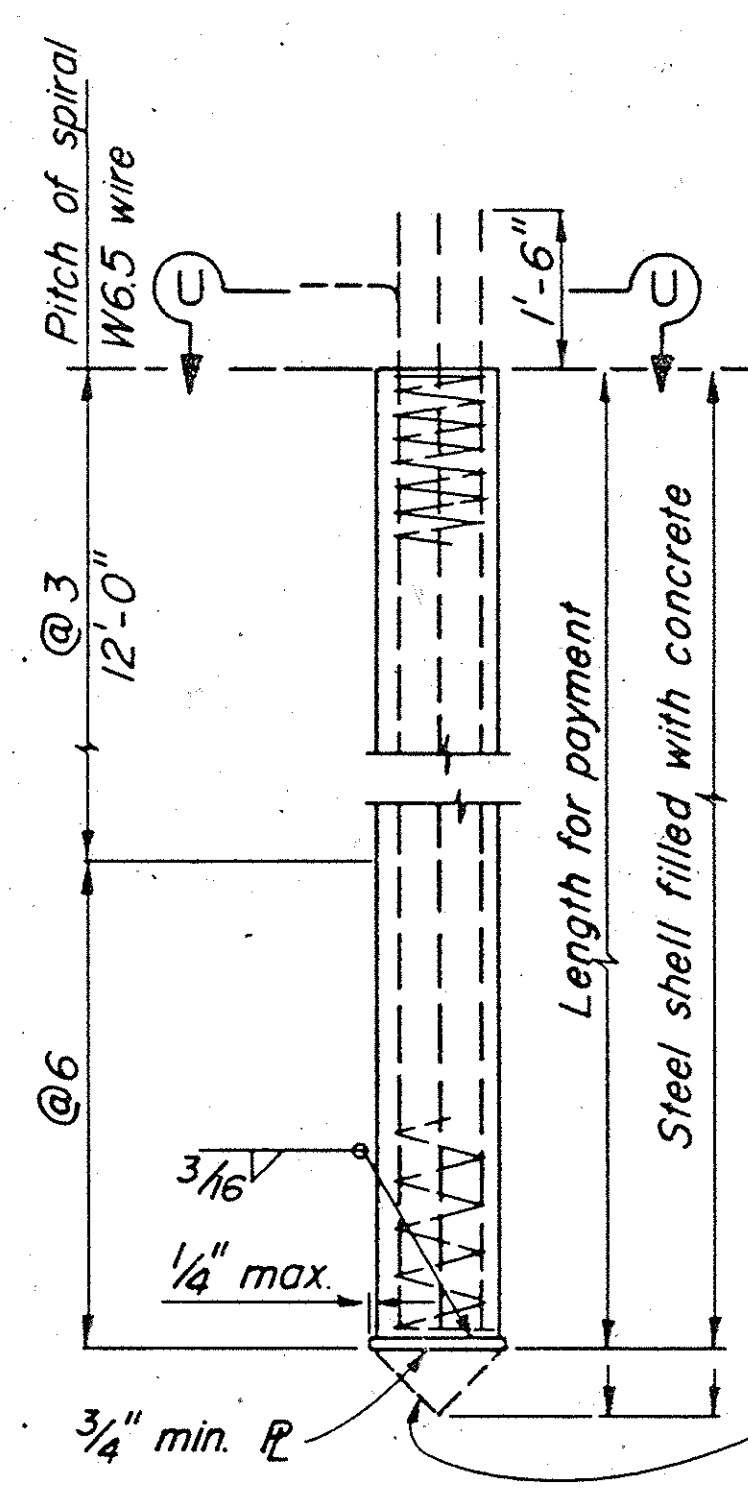
SECTION Y-Y



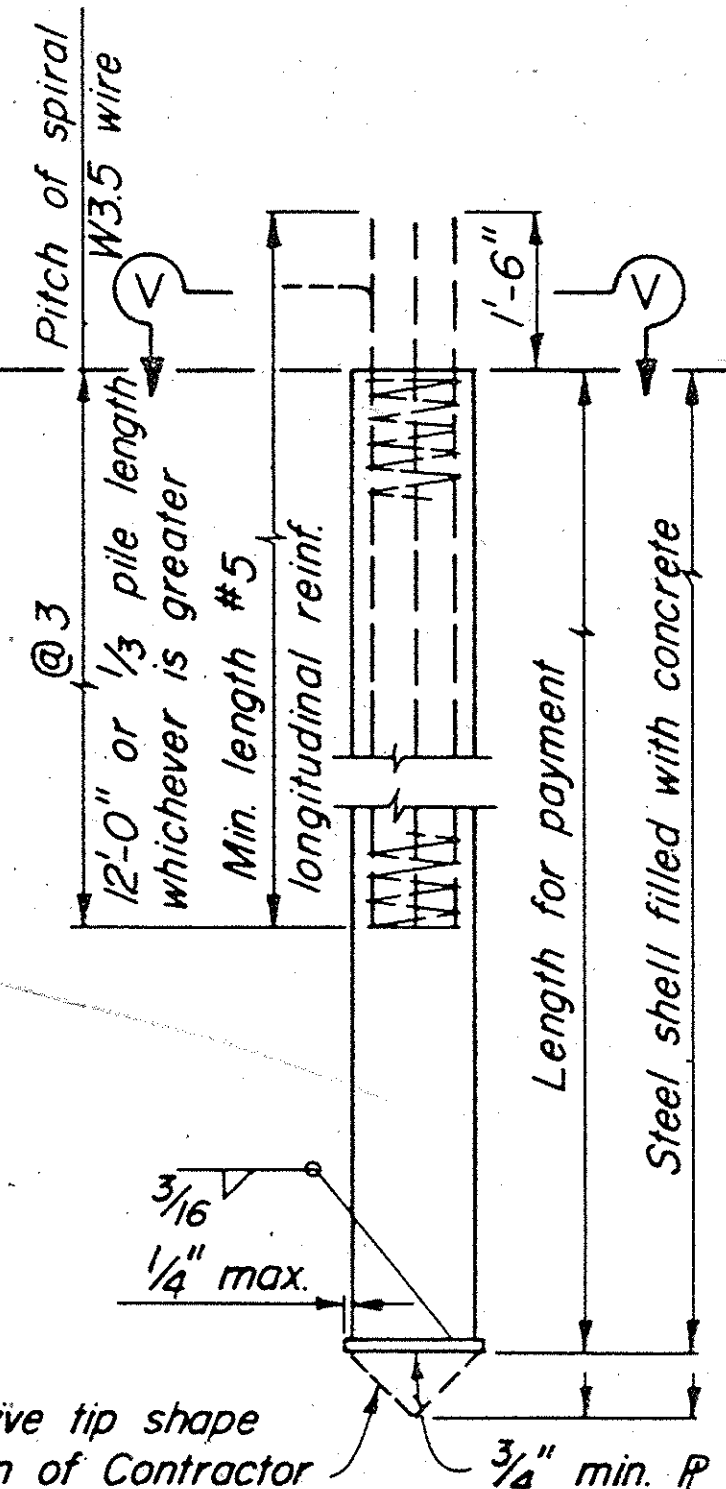
SECTION Z-Z

*Measured out to out of corrugations.

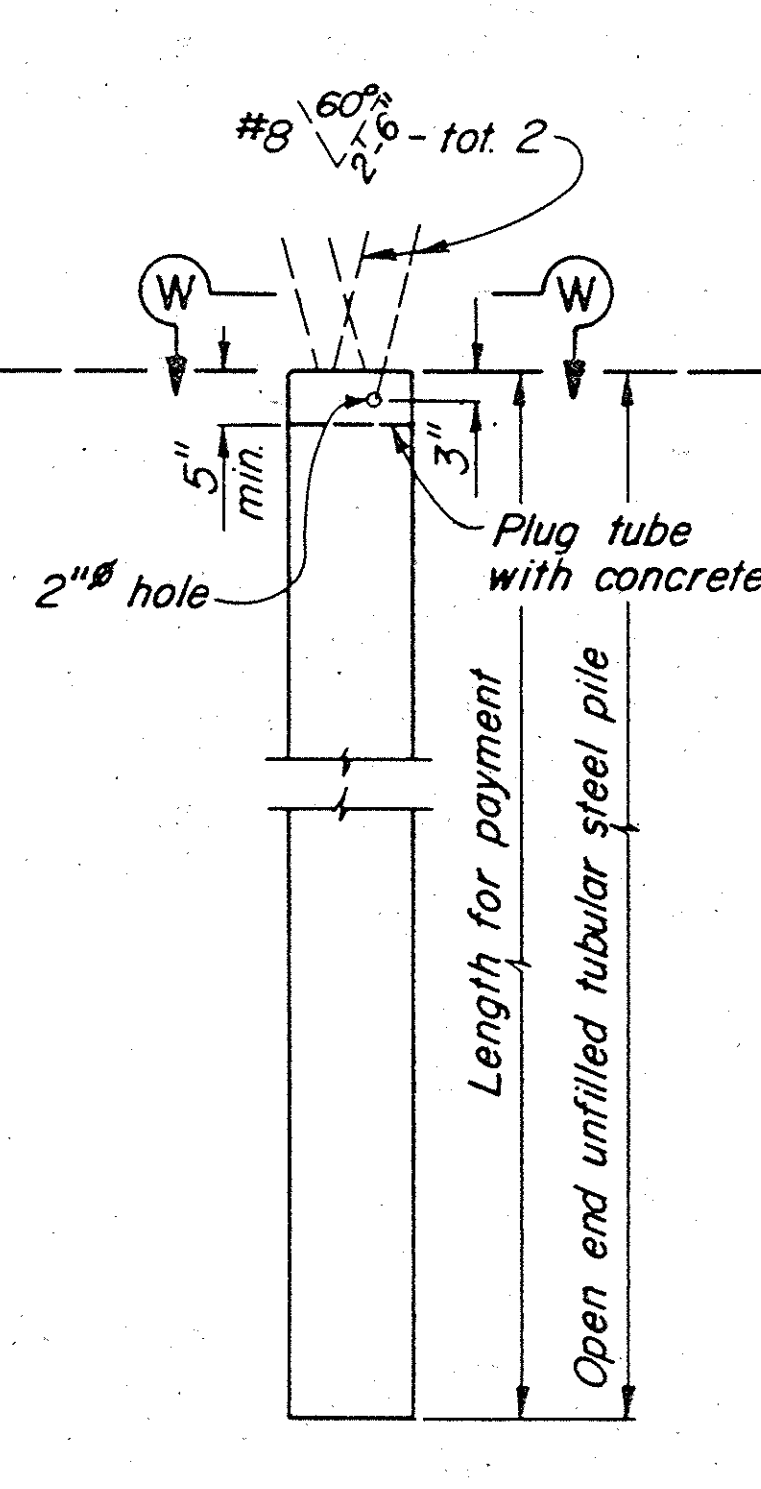
*9 with standard 90° hook, total 2 (bundled) grouted in 3" dia. hole cast or drilled into center of pile



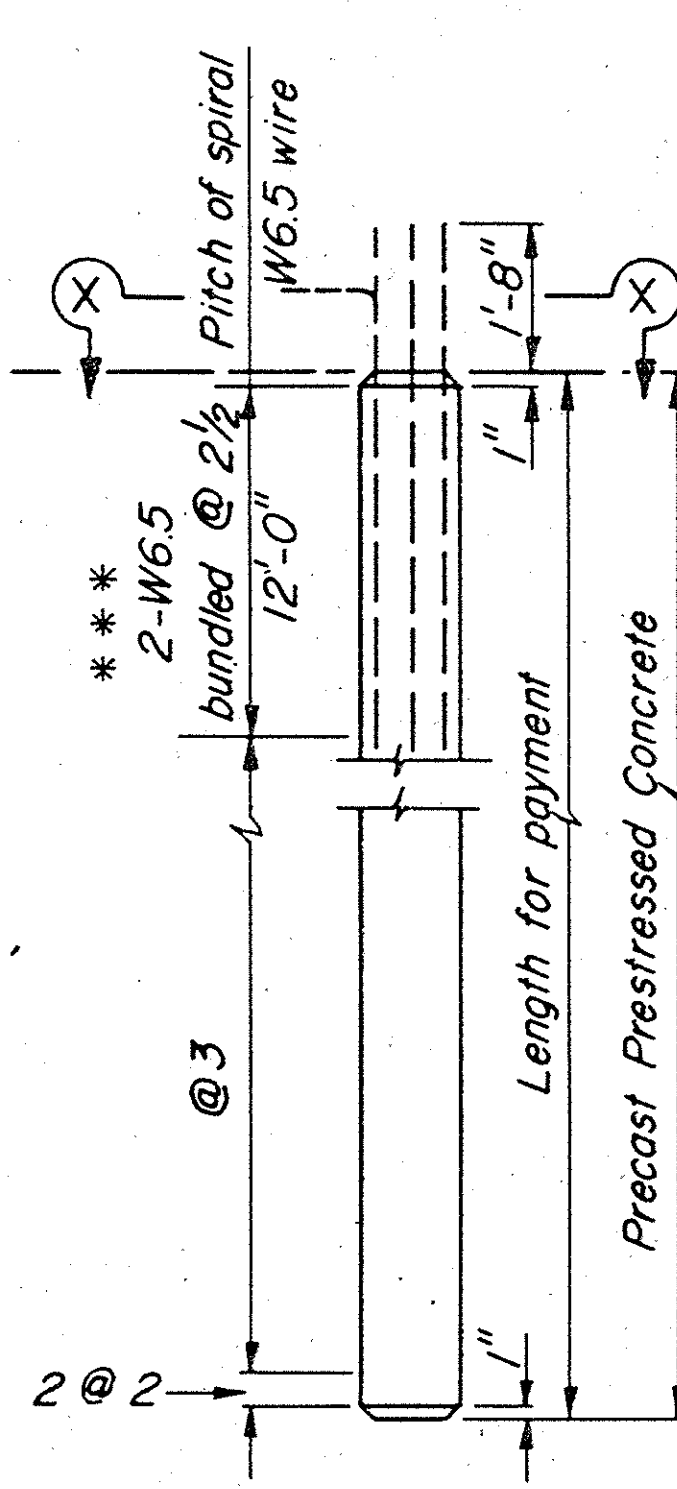
ALTERNATIVE "U"



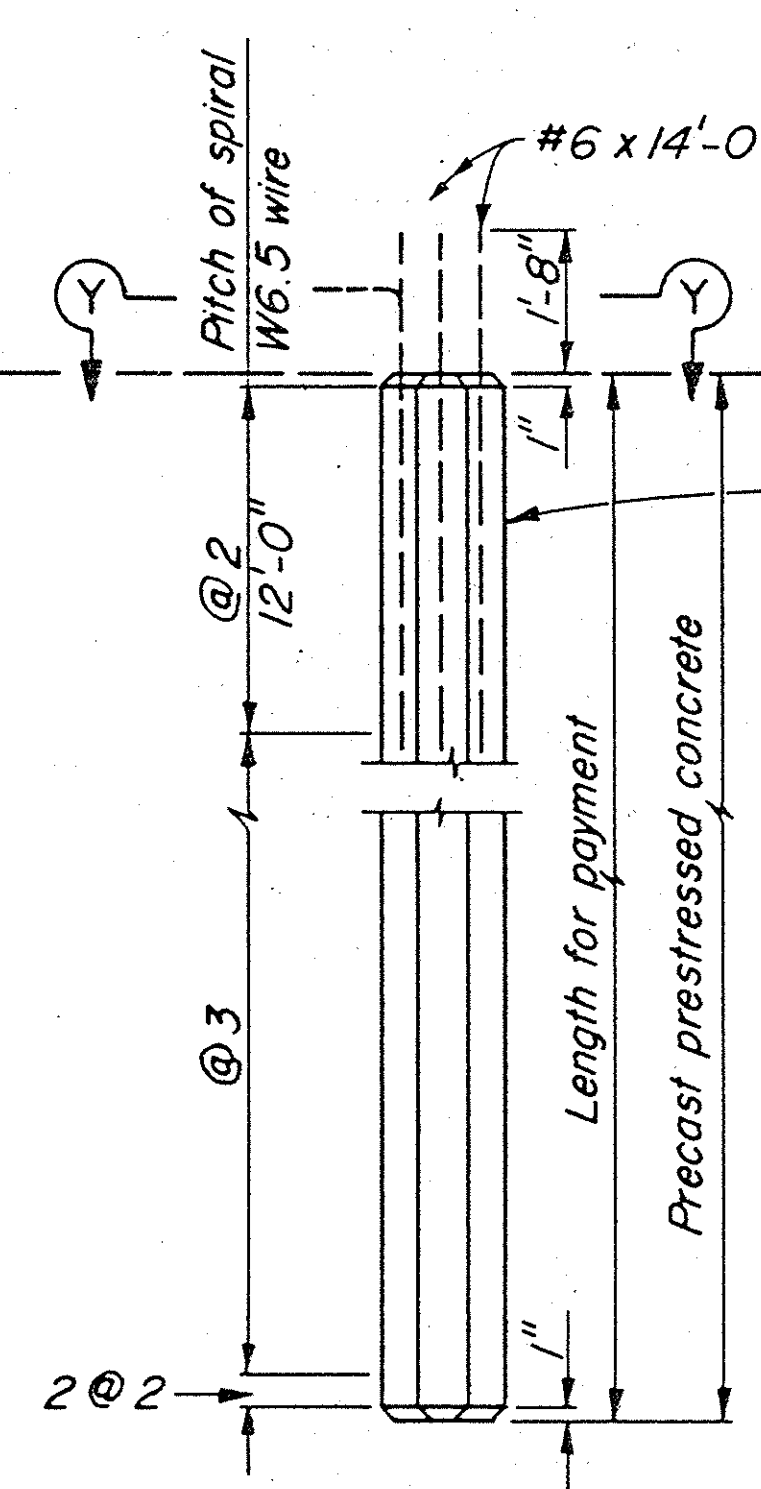
ALTERNATIVE "V"



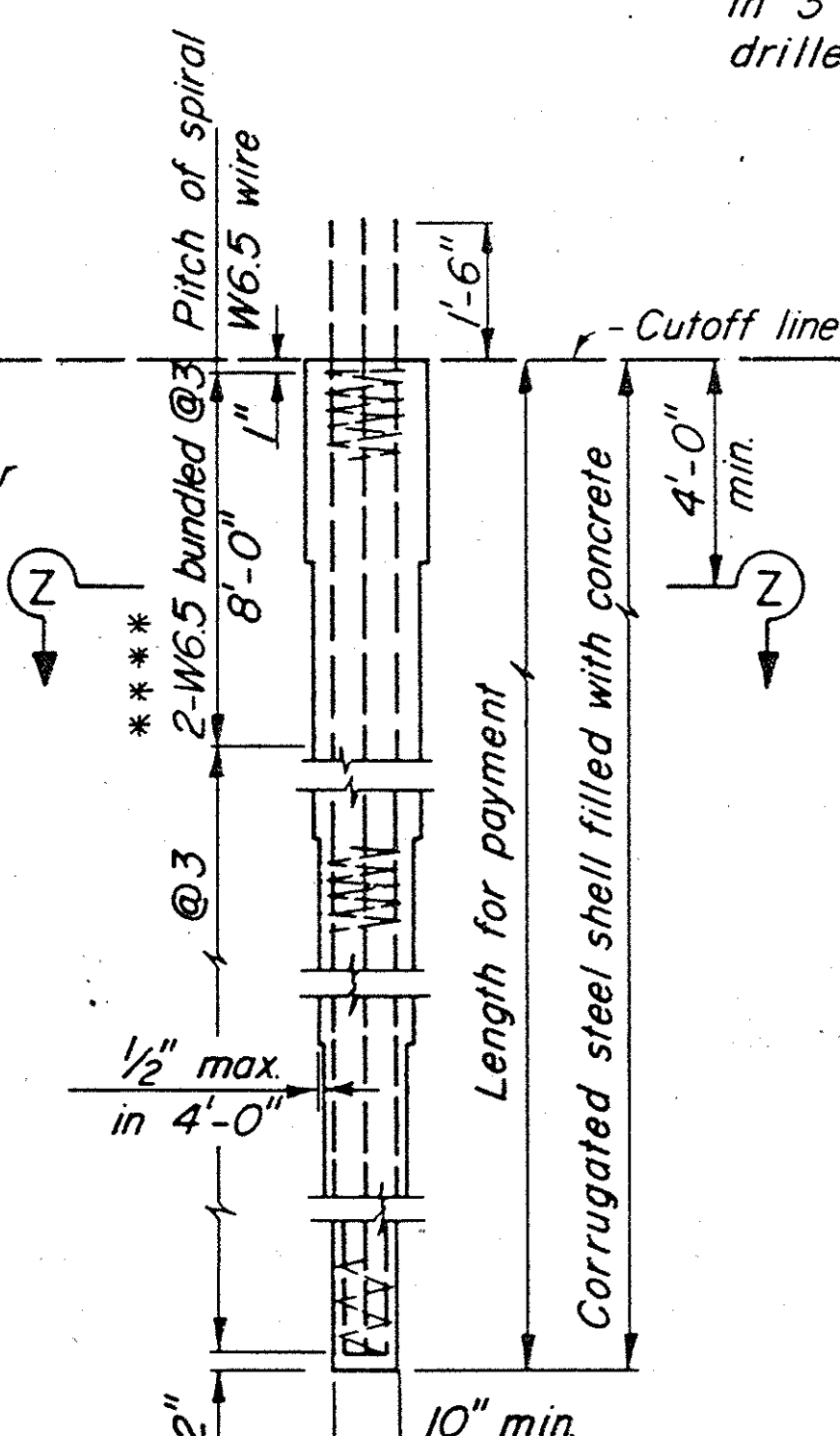
ALTERNATIVE "W"



ALTERNATIVE "X"



ALTERNATIVE "Y"



ALTERNATIVE "Z"

ALTERNATIVE PILE
ANCHOR FOR
PRESTRESSED PILES

*5 x 12'-0" tot. 6 instead of *6 x 14'-0" total 4

Notes:

Details are the same for both Class 45 and Class 70 piles unless noted otherwise.

A 10" minimum diameter pipe extension (thickness = 0.1798" min. for Class 45 and 0.250" min. for Class 70) may be used at the tip of Alternative "Z" when taper is 30' or more in length.

Pile 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.

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.

2" clearance to spiral reinforcement shall be maintained if section used is larger than the minimum section shown.

PRECAST PRESTRESSED PILES:

P = Prestressing Force If section used is larger than the min. section shown, then "P" shall provide 860 psi min.

As = Minimum area of prestressing steel required.

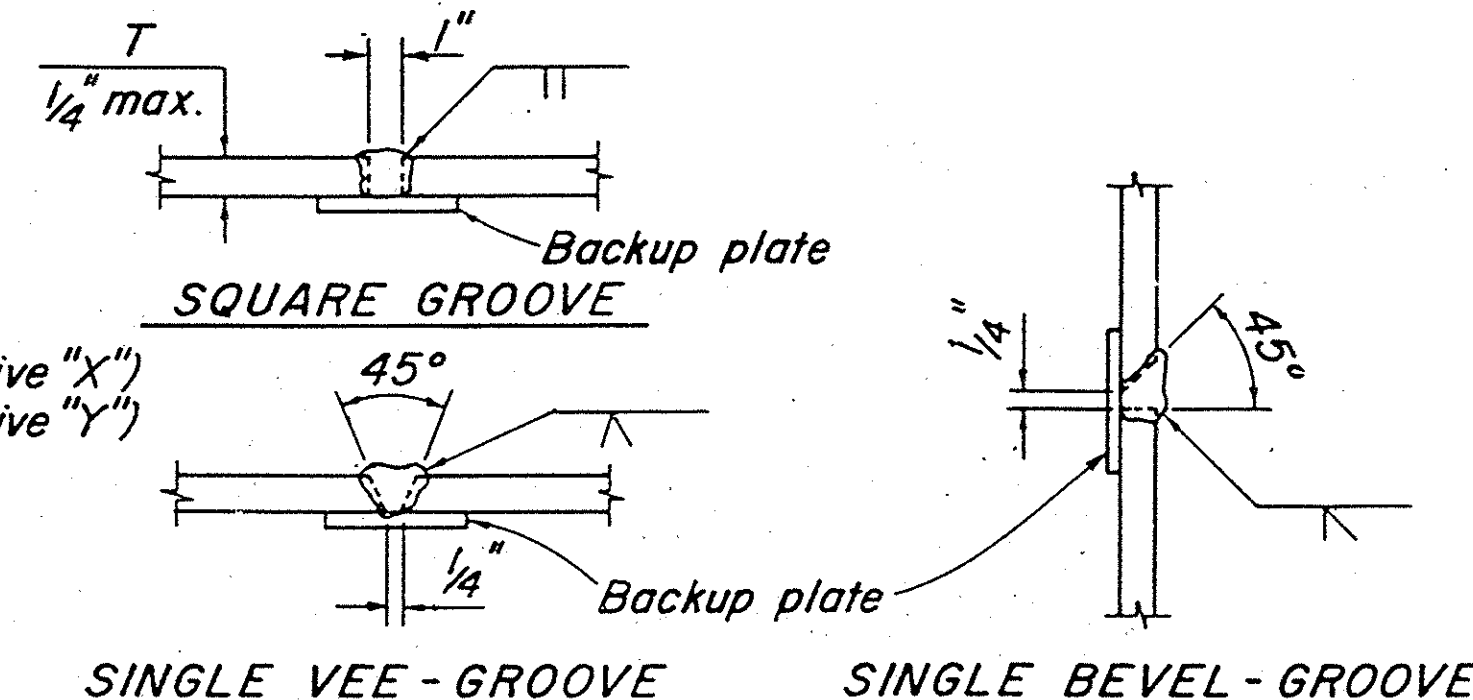
Concrete Strength: f'c @ 28 days = 6,000 psi (Alternative "X")
5,000 psi (Alternative "Y")
f'ci @ transfer = 4,000 psi

DESIGN LOADING

Class 45 = 45 tons
Class 70 = 70 tons

NOTE: This sheet supersedes Sheet No. B2-1, page 86 and Sheet No. B2-5, page 88 of the Standard Plans dated January, 1981

Supersedes Sheet RSP B2-5 dated April, 1982



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.

**** W11 at 2 1/2 may be substituted

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
SANTA ANA RIVER BIKE TRAIL BRIDGE NEAR 17TH STREET	
PILING DETAILS	
DESIGNED	SHEET
DRAWN	CHECKED
SCALE	DATE
AS SHOWN	DRAWING NO.
6	
OF 3	