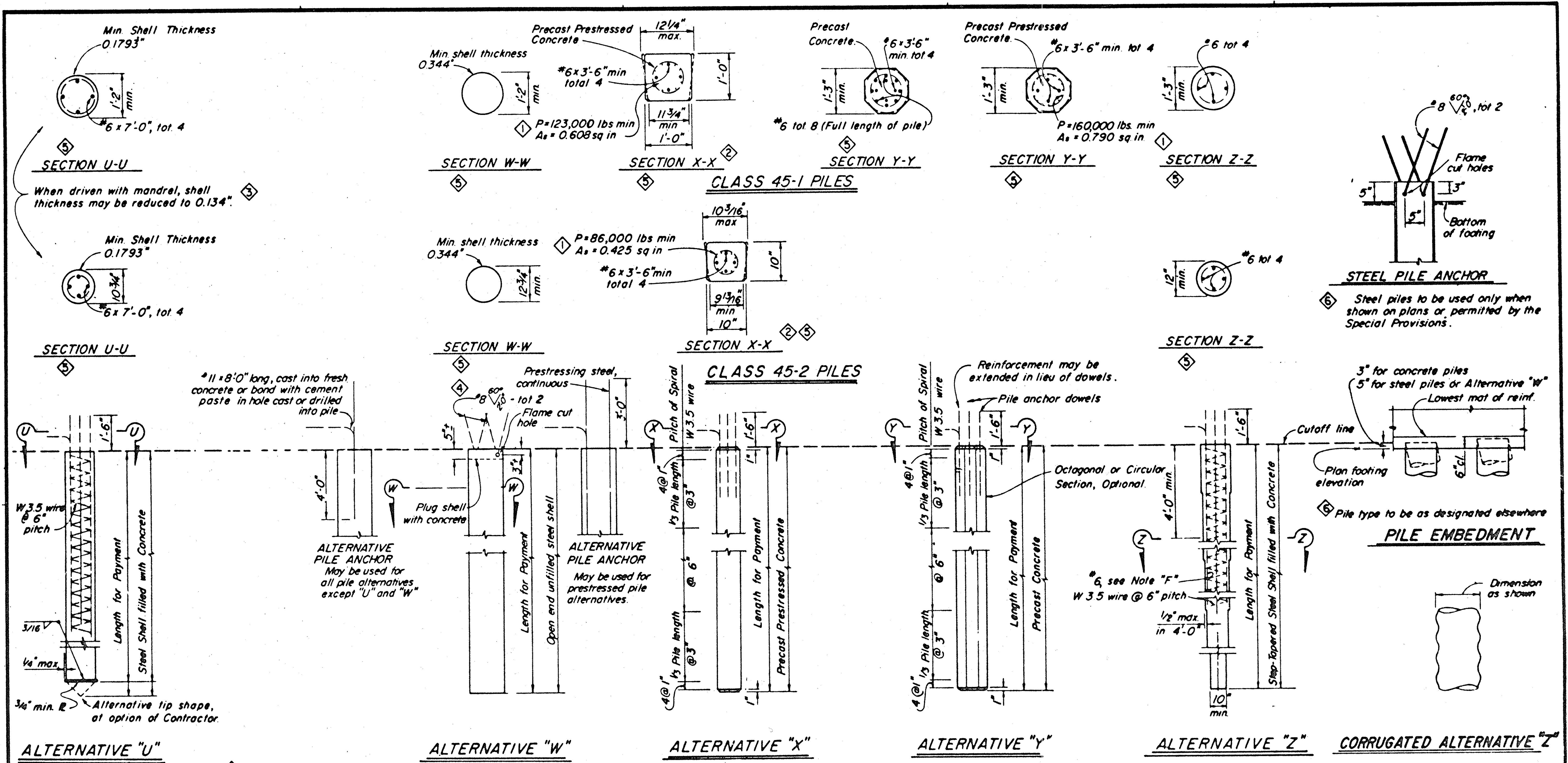




PRECAST PRESTRESSED PILES:

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

A_s = Minimum Area of prestressing steel required.

Concrete Strength: f'_c @ 28 days = 6,000 p.s.i. (Alternative "X")
5,000 p.s.i. (Alternative "Y")

f'_{ci} @ transfer = 4,000 p.s.i.

DESIGN LOADING = 45 TONS

NOTE F: In Alternative "Z", two #6 bars shall extend to the pile tip and the other two #6 bars and the spiral wrap shall extend, at least, to a point halfway between the pile tip and the lowest of the following:

- Bottom of footing
- Top of final ground surface.
- Top of original ground surface when holes are drilled through embankment constructed by Contractor.
- Bottom of pre-drilled holes greater than pile diameter.

NOTES: Class 45-1 piles may be substituted for Class 45-2.

A 10" minimum diameter pipe extension (thickness = 0.1793" min.) may be used at the tip of Alternative "Z" when taper is 30' or more in length.

All dowels or bars extending into a footing having a depth less than 2'-0" shall be hooked.

5 gauge wire may be substituted for W3.5 wire

Piles may not be extended except in accordance with details shown in the Project Plans.

PLANS PREPARED BY:

R.G.B. ENGINEERING, INC.
3183 "G" AIRWAY AVENUE
COSTA MESA, CA 92626
PH. (714) 557-5651

JOHN E. STEVENSON R.C.E. 22446 DATE 3/16/77

"AS BUILT"

PILE DETAILS-CLASS 45-1 & CLASS 45-2

THE CITY OF IRVINE
CITY ENGINEER C.E. 20614

WALNUT AVENUE
BRIDGE OVER PETERS CANYON WASH
PILE DETAILS

CITY OF IRVINE
COMMUNITY DEVELOPMENT DEPARTMENT

DATE PROJECT NO.
SHEET 15 OF 25