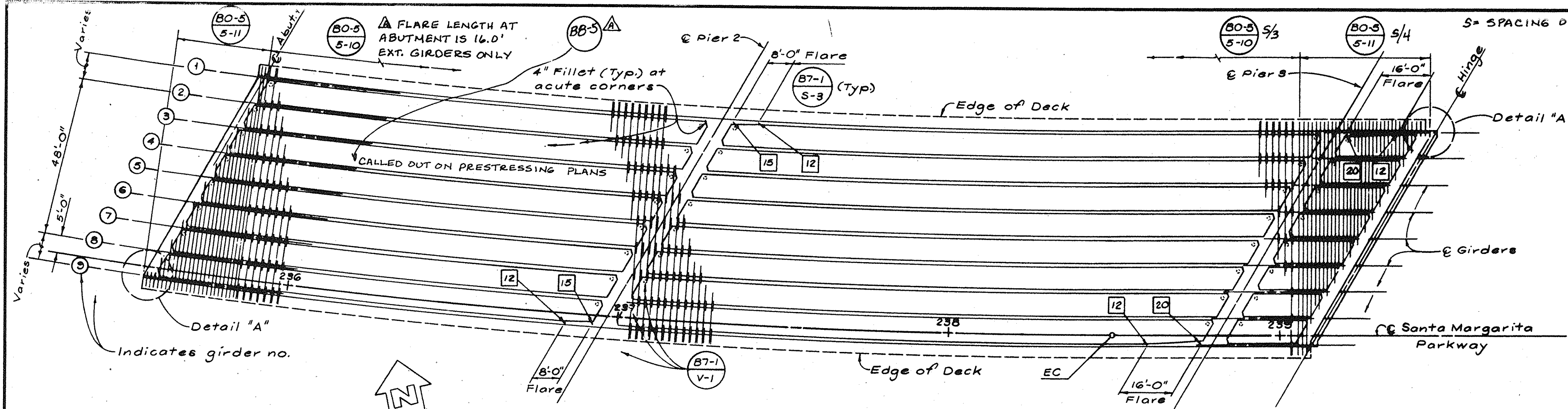




PRESTRESSING NOTES - FRAME 1:

270 KSI Low Relaxation Strand:

$$P_{back} = 19.044 \text{ kips}$$
$$A_g = 95 \text{ in}^2$$

Anchor Set = 3/8 in

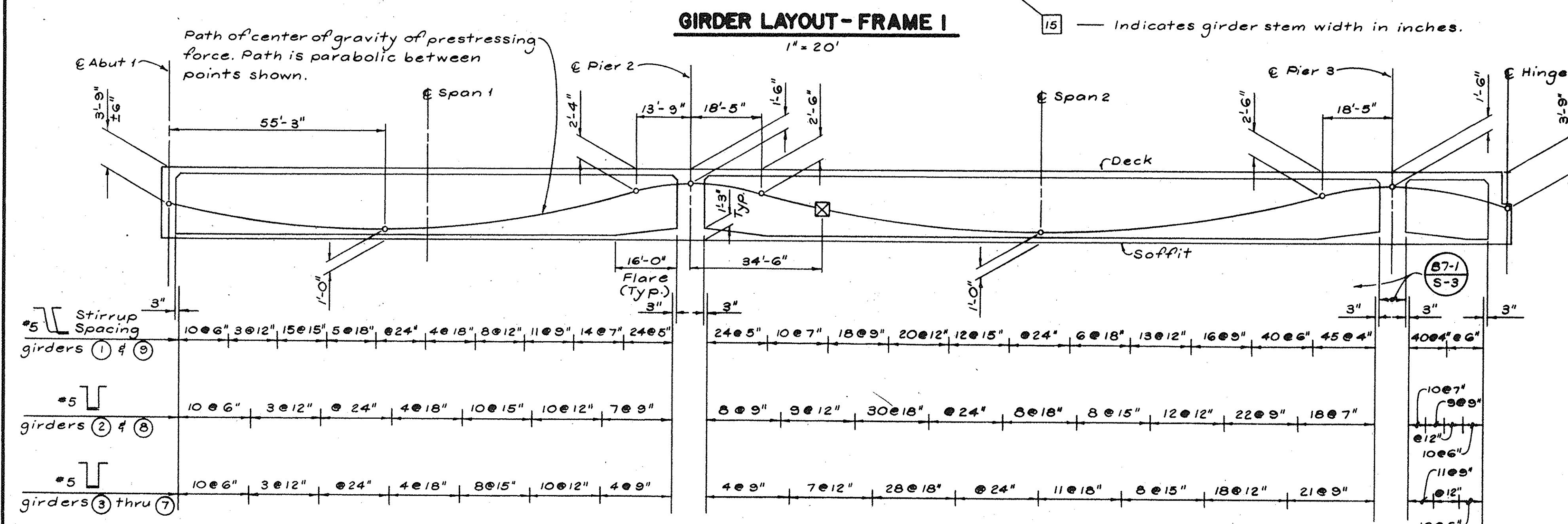
Distribution of prestress force (P_{jck}) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725^k.

Concrete: $f'_c = 4000$ psi @ 28 days

$$f'_{ci} = 3500 \text{ psi @ time of stressing}$$

Contractor shall submit elongation calculations based on initial stress at $X = 0.850$ times jacking stress.

For details not shown, see **B8-5**



End diaph. reinf. *

4" min.

13" min.

10" typ.

*4 Tot. 4

*4 @ 12" 10" min. lap

Recess for anchorage shall be filled with concrete after stressing is completed.

@ Girder

BB or EB

Q Abut.

14" 14" 3" Stop slab bottom longitudinals.

#5 8'-0" e 6" between girders.

4" Fillet

4-#7. Extend to edge of deck.

#5 @ 12"

#5 @ 18" *

4-#7

PLAN

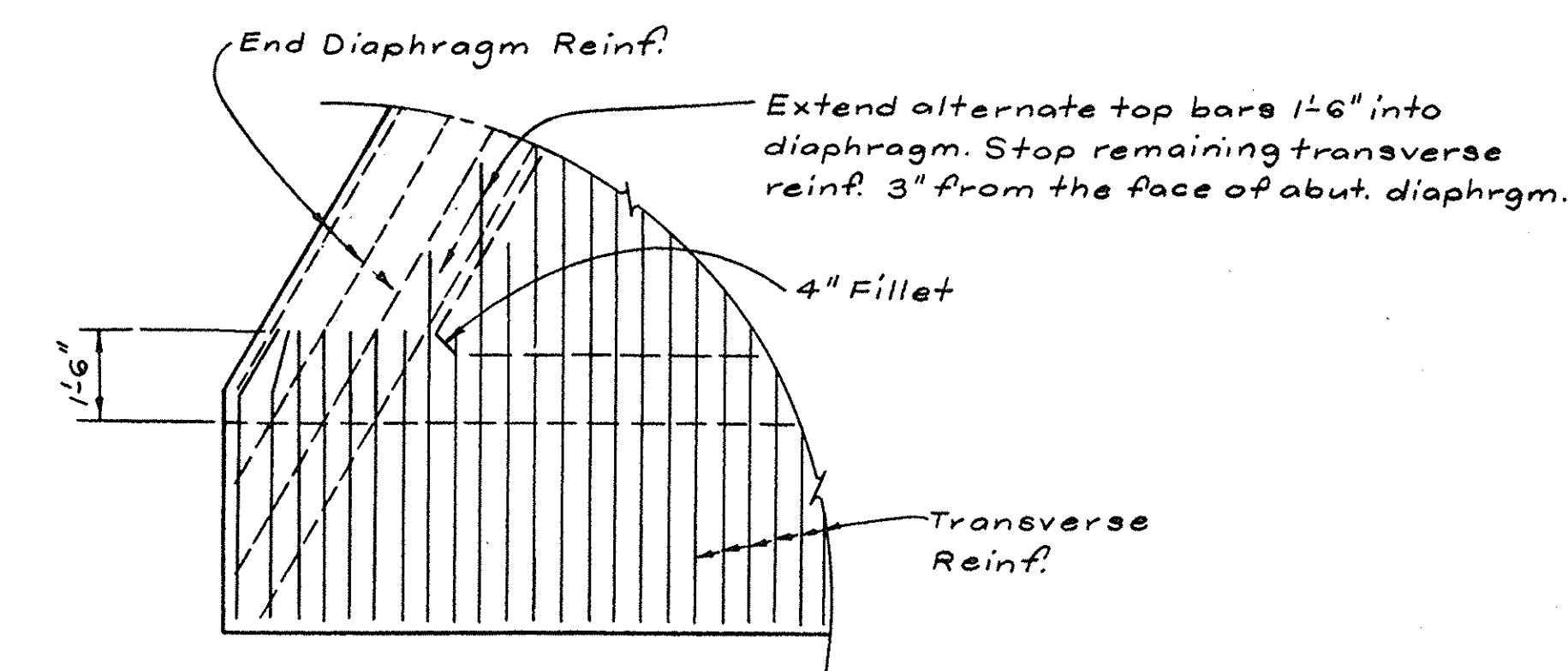
$$\frac{1}{2}'' = 1'$$

SECTION

$$\frac{1}{2}'' = 1'$$

END DIAPHRAGM DETAILS

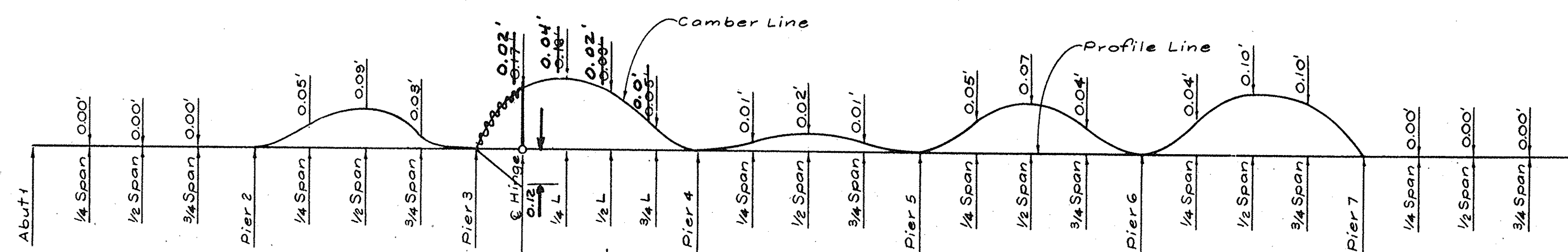
* Bars may be spliced or bent to clear prestressed anchorage as directed by the Engineer.



DETAIL "A"

$$\frac{3}{8}'' = 1'$$

NOTE: Detail similar on all top of deck
acute corners of Frame 1 &
Frame 2.



(Does not include allowance for falsework takeup or settlement if any.)



MCDANIEL ENGINEERING COMPANY, INC.
2000 OLD TOWN AVE., SUITE 207B, SAN DIEGO, CA 92110 (619) 592-1800

APPROVED BY	R.C.E.	EXPIRES	DATE
<i>W. Mark Salter</i>	C 34299	9-30-91	6-28-8

DESIGNED BY W.M.A. DRAWN BY O.M.C. CHECKED BY C.C.C. FILED IN	1.
	2.
	3.
	4.

**SANTA MARGARITA PARKWAY BRIDGE
OVER ARROYO TRABUCO - WIDENING**

GIRDER LAYOUT - FRAME 1

AS BUILT 3.93 SLH

SECRET
33
OF
57
SECRET

202 110