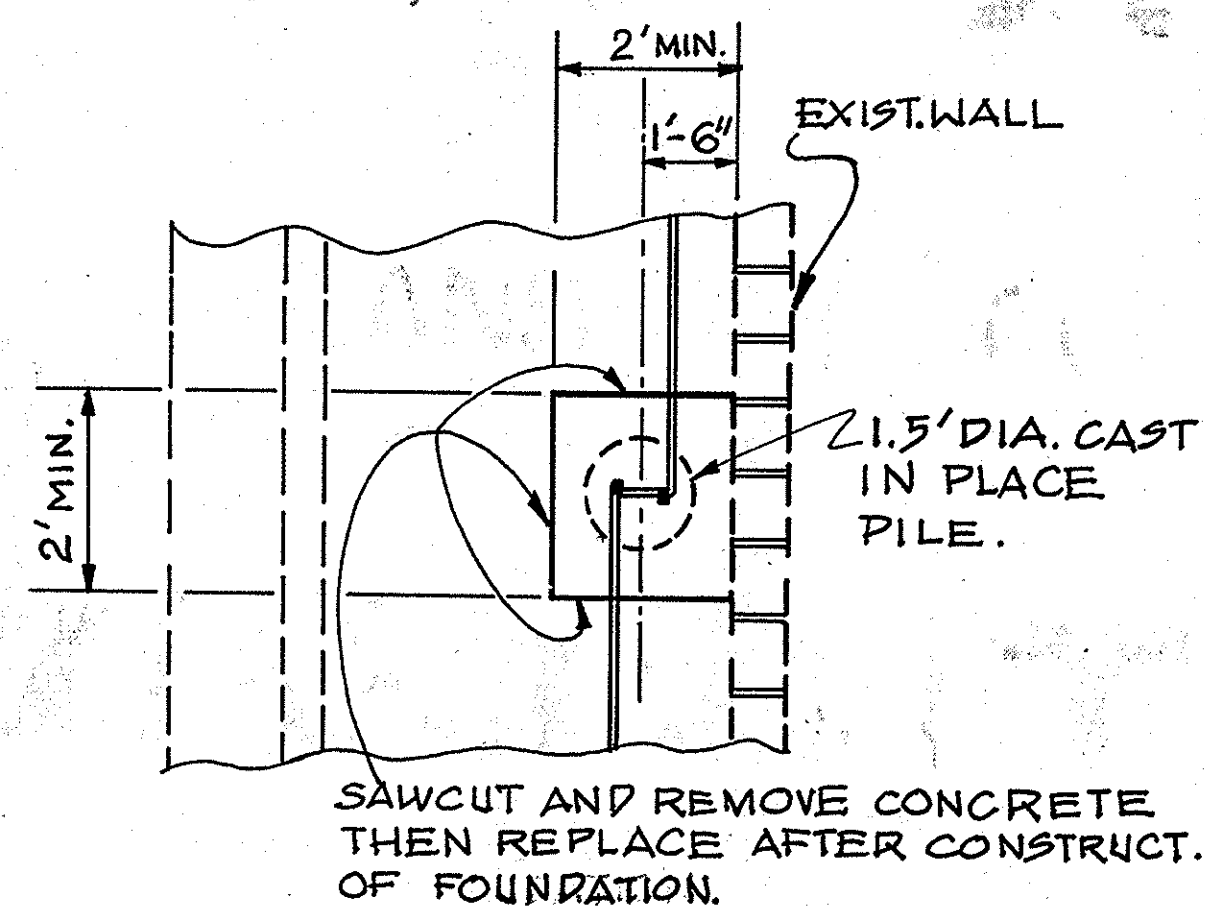


WEATHERING STEEL SOUNDWALL NOTES

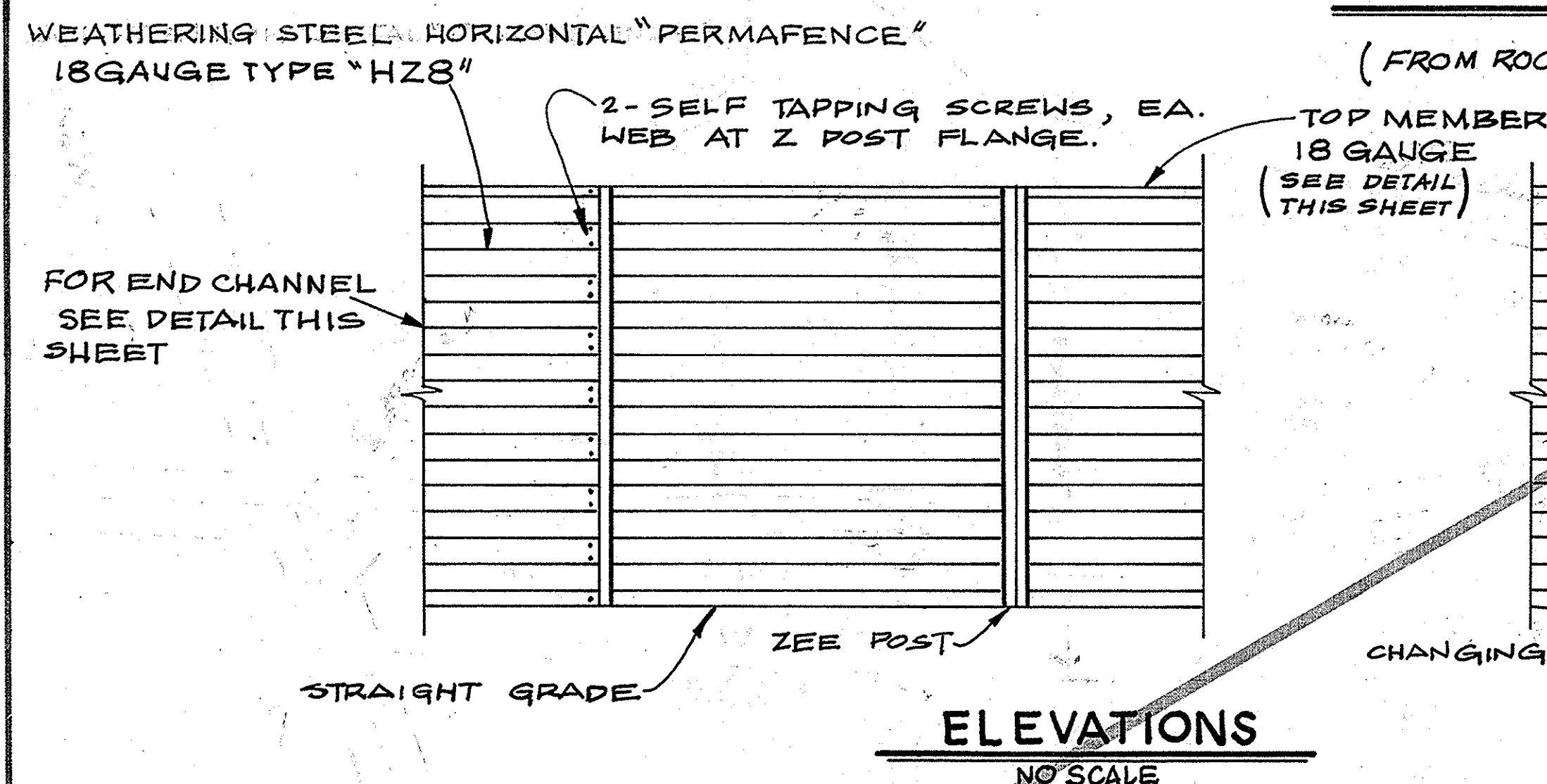
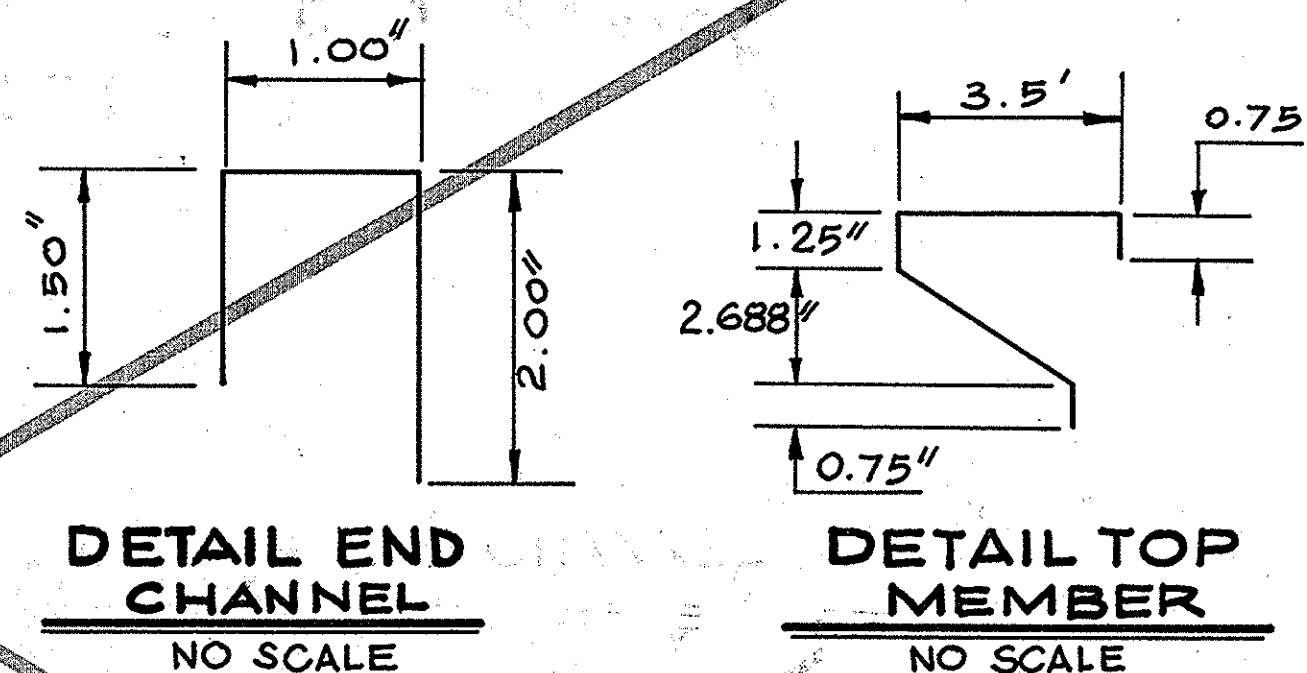
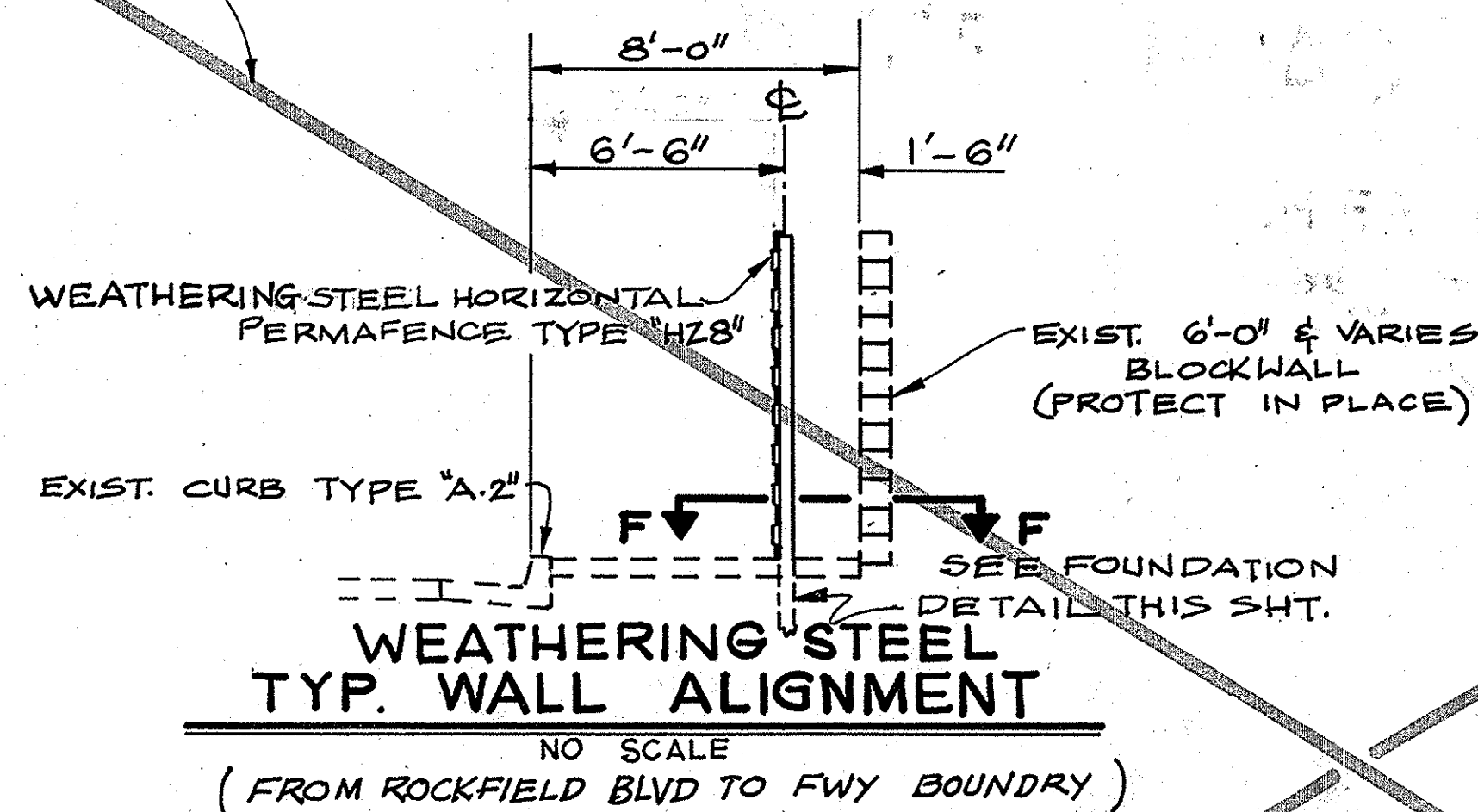
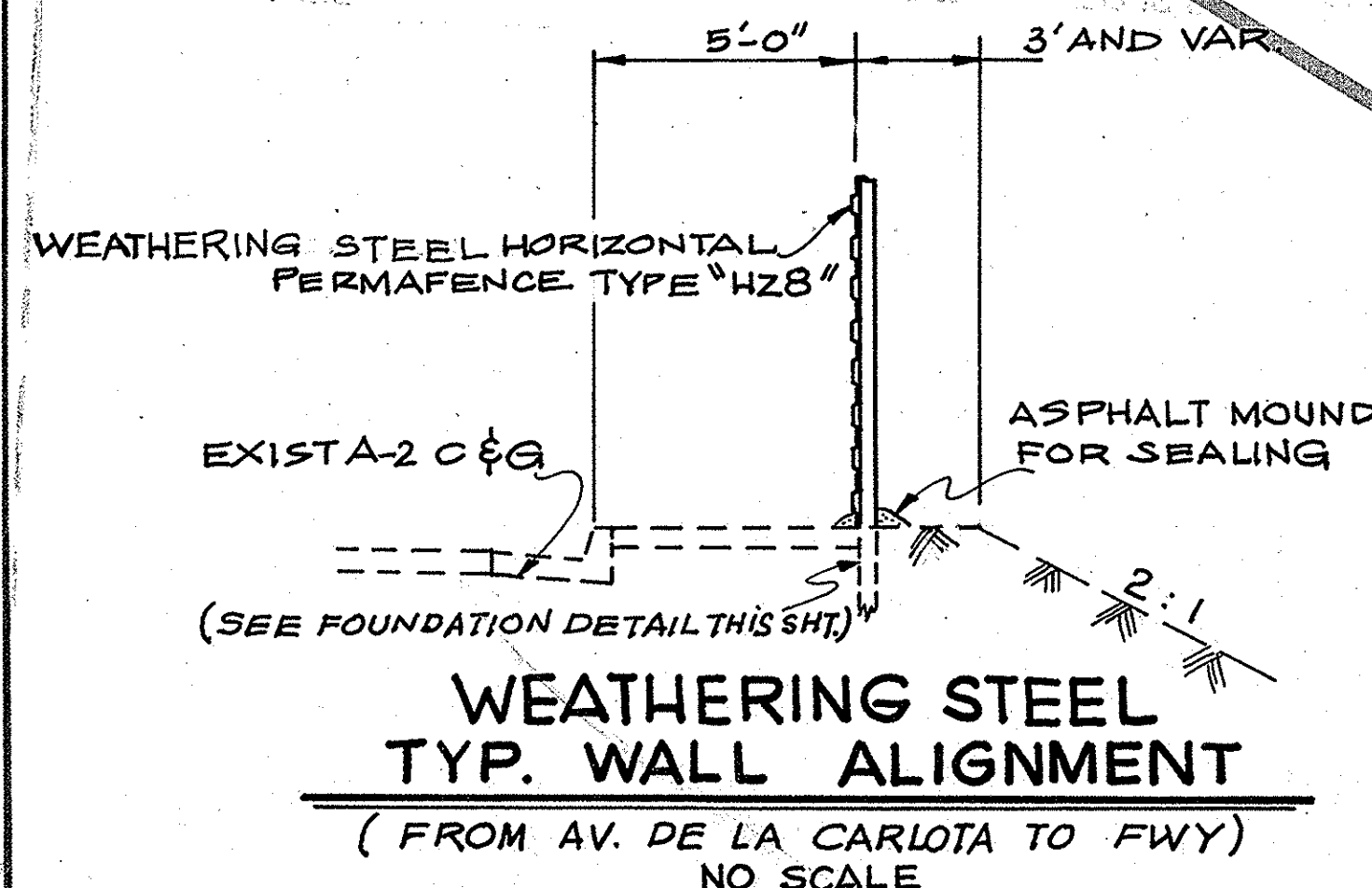
TABLE I

STA. TO STA. LOT NO.	H (FT)	d (FT)	PIER DIA (FT)	DOUBLER (FT)
LOT 1-9	6	8.5	1.5	—
FWY OVERCROSSING	—	—	—	—
LOT 10	9.5	5.5	1.5	4
LOT 11	10	5.5	1.5	4
LOT 12	11	6.0	1.5	4
LOT 13 & 14	10	5.5	1.5	4
LOT 15, 16, 17, 18	9.5	5.5	1.5	4
LOT 19	8	5.0	1.5	—
LOTS 20-30	9.5	5.5	1.5	4

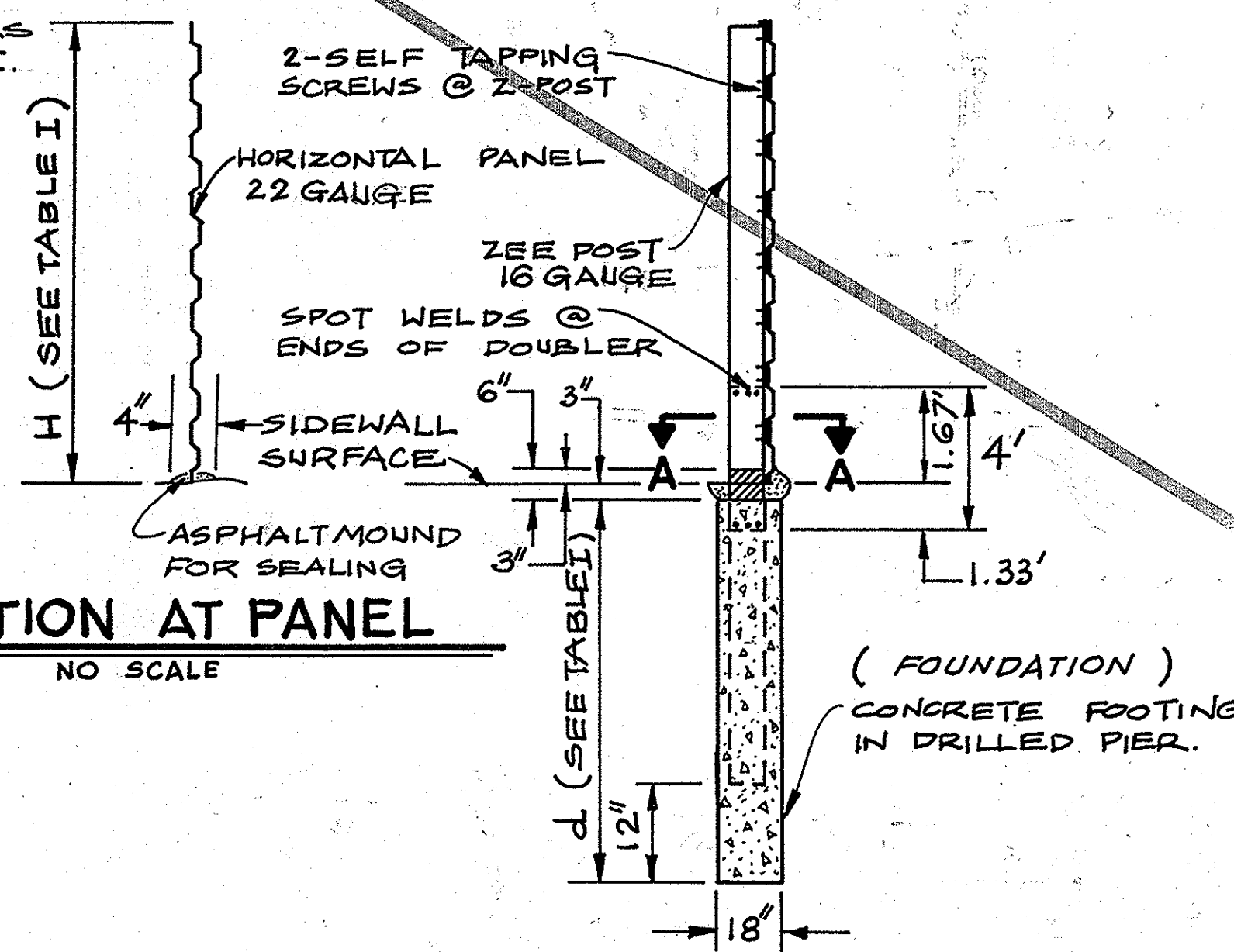
- PANEL: $3/4" \times 12" \times 10'$, 18 GAUGE WEATHERING STEEL, $S_c = 0.069 \text{ IN}^3/\text{FT}$, $S_t = 0.149 \text{ IN}^3/\text{FT}$, $I = 0.087 \text{ IN}^4/\text{FT}$, $d \text{ BALOGS} = 25$.
- ZEE POSTS: $8\frac{1}{2}" \times 2\frac{3}{4}" \times 16$ GAUGE WEATHERING STEEL, $S_c = 1.90 \text{ IN}^3$, $I_x = 8.08 \text{ IN}^4$, $F_y = 3.22$.
- STEEL: WEATHERING STEEL, ASTM A606 TYPE 4, $F_y = 50 \text{ KSI}$, $E = 29 \text{ KSI}$.
- CONCRETE PILES: 2500 PSI MIN. IN 28 DAYS.
- FASTNERS: SELF DRILLING AND TAPPING SCREWS NO. 8-18X $\frac{1}{2}$, 410 S.S. PHOSPHATE AND OIL PLATING.
- THICKNESS HAS BEEN REDUCED BY A 2 MIL CORROSION ALLOWANCE EACH SIDE TO ESTABLISH 'NET' THICKNESS, PROPERTIES ARE BASED ON NET THICKNESS.
- EFFECTIVE SECTION MODULUS FOR BENDING AT $F = 30 \text{ KSI}$ ARE ALSO APPLICABLE FOR WIND LOAD STRESSES AT $F = 40 \text{ KSI}$.
- SYMBOLS: S_c = MODULUS FOR COMPRESSIVE STRESS
 S_t = MODULUS FOR TENSILE STRESS
 S_p = MODULUS FOR POSITIVE BENDING
 S_n = MODULUS FOR NEGATIVE BENDING
 I_p = MOMENT OF INERTIA FOR POSITIVE BENDING.
- TOP MEMBER: 18 GAUGE WEATHERING STEEL, $I_y = 0.500$, $S_y = 0.313$, $r_y = 1.07$.
- END CHANNEL: 18 GAUGE WEATHERING STEEL, $I_y = 0.036$, $S_y = 0.065$, $r_y = 0.438$.



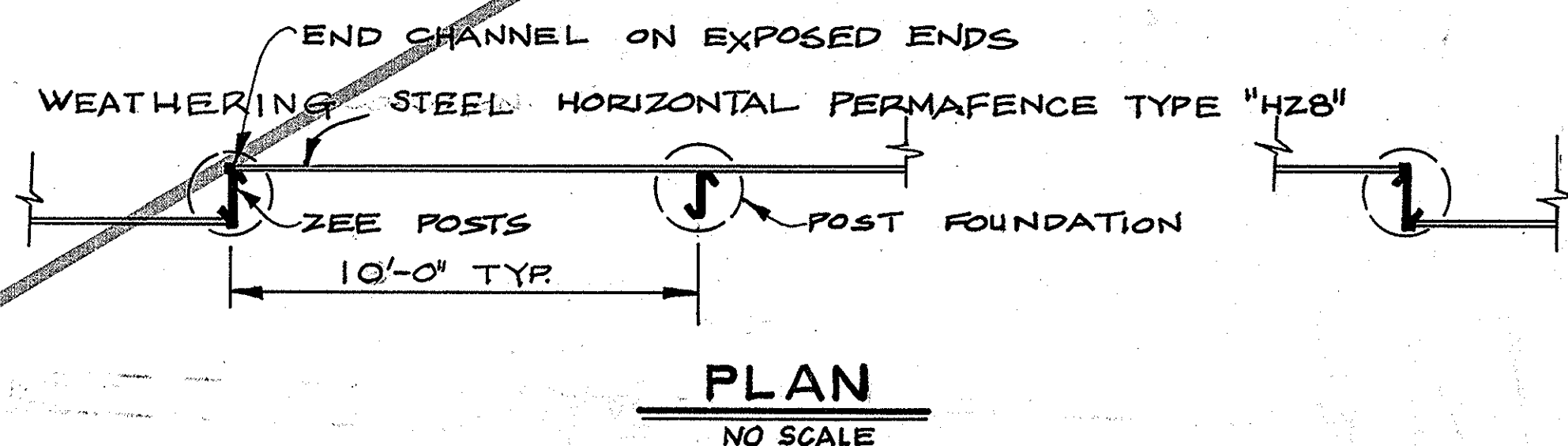
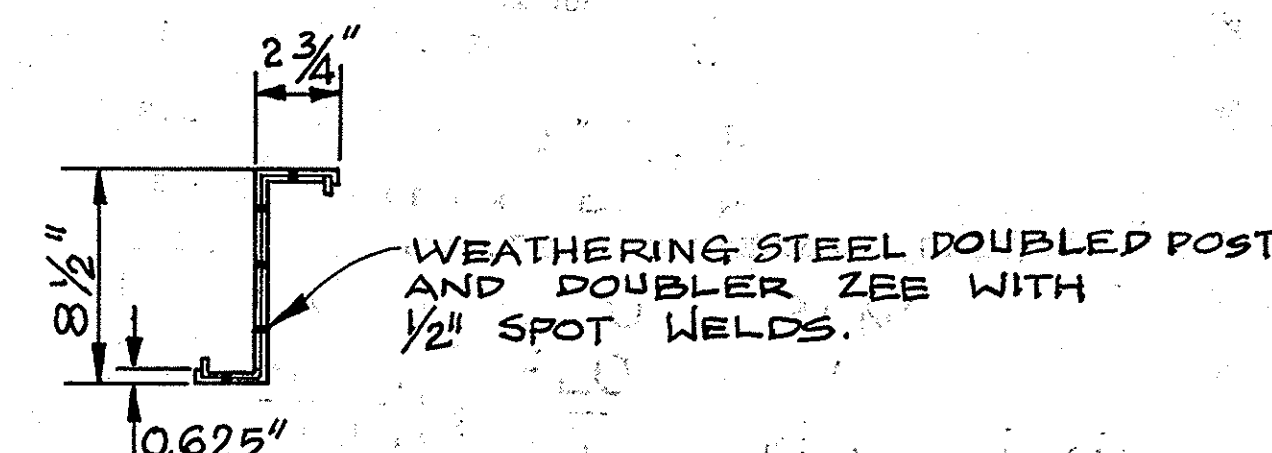
SECTION F-F
NO SCALE



SECTION AT PANEL
NO SCALE



SECTION A-A
AT DOUBLER ZEE
NO SCALE



WEATHERING STEEL SOUNDWALL
SECTION AT POST
NO SCALE

1/2 0 1 2
3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		SOUNDWALLS On LOS ALISOS BLVD.		WEATHERING STEEL SOUNDWALL DETAILS	
MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF	DATE	SHEET
DESIGNED	M. IDRIS	SCALE	DATE	DWG. NO.	4
DRAWN	H. PHAM	CHECKED	M. L.	AS SHOWN	