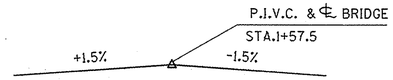
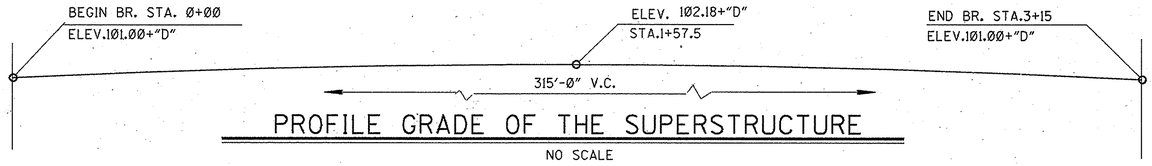
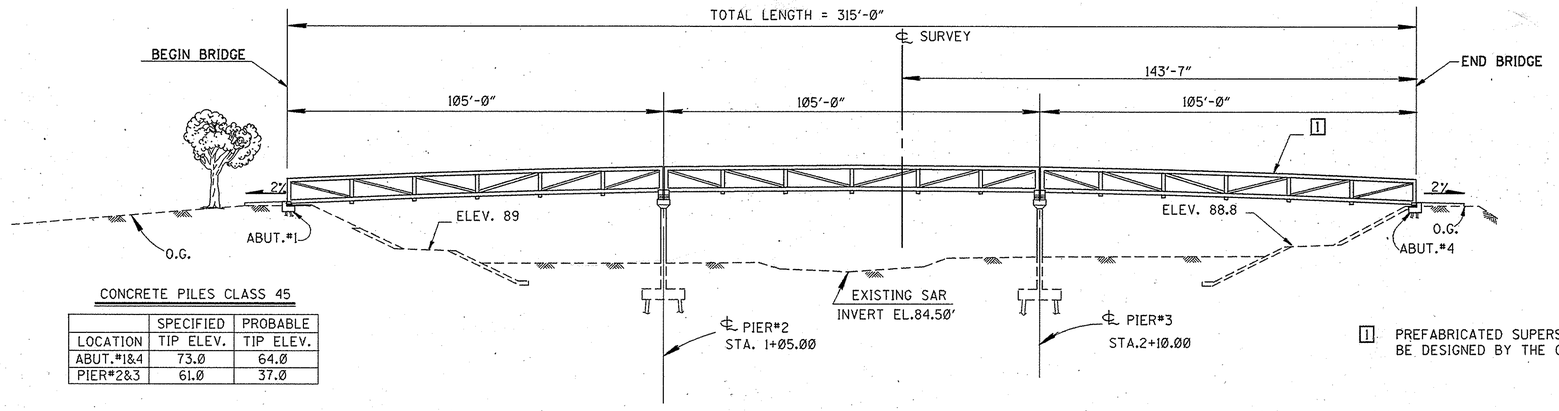




PROFILE GRADE OF THE SUPERSTRUCTURE

NO SCALE



CONCRETE PILES CLASS 45

LOCATION	SPECIFIED TIP ELEV.	PROBABLE TIP ELEV.
ABUT.#1&4	73.0	64.0
PIER#2&3	61.0	37.0

1 PREFABRICATED SUPERSTRUCTURE SHALL BE DESIGNED BY THE CONTRACTOR.

ELEVATION

LOOKING UPSTREAM
SCALE:1"=20'

GENERAL NOTES

SPECIFICATIONS

DESIGN: AASHTO, DATED 1983 WITH SUBSEQUENT REVISIONS, AND CALIFORNIA DIVISION OF HIGHWAY BRIDGE PLANNING AND DESIGN MANUAL, AS MODIFIED BY CAL TRANS.

CONSTRUCTION: STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, DATED 1982, CAL TRANS JULY 1984 STANDARD SPECIFICATIONS, AND THE SPECIAL PROVISIONS.

LIVE LOADING

- 85 POUNDS PER SQUARE FOOT
- AN ADDITIONAL CONCENTRATED LOAD AT THE CENTER EQUAL TO 10,000 LBS. PLUS AN ADDITIONAL ALLOWANCE OF 30% FOR IMPACT LOADS
- A WIND LOAD IN ACCORDANCE WITH AASHTO SPEC.3.15.1

PILE LOADING

45 TONS, TYPE : CLASS 45

SUPERSTRUCTURE

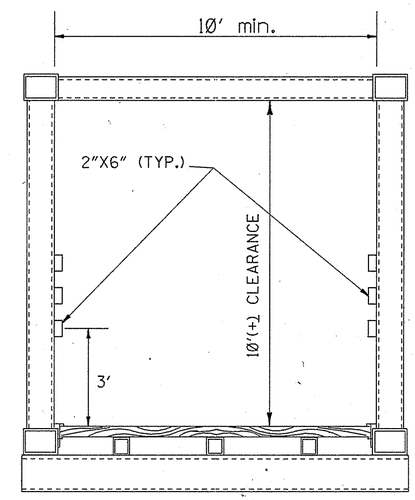
ASTM A242 OR A588, HIGH STRENGTH, LOW ALLOY CORROSION-RESISTANT;

F_y = 50,000 PSI

UNIT STRESSES

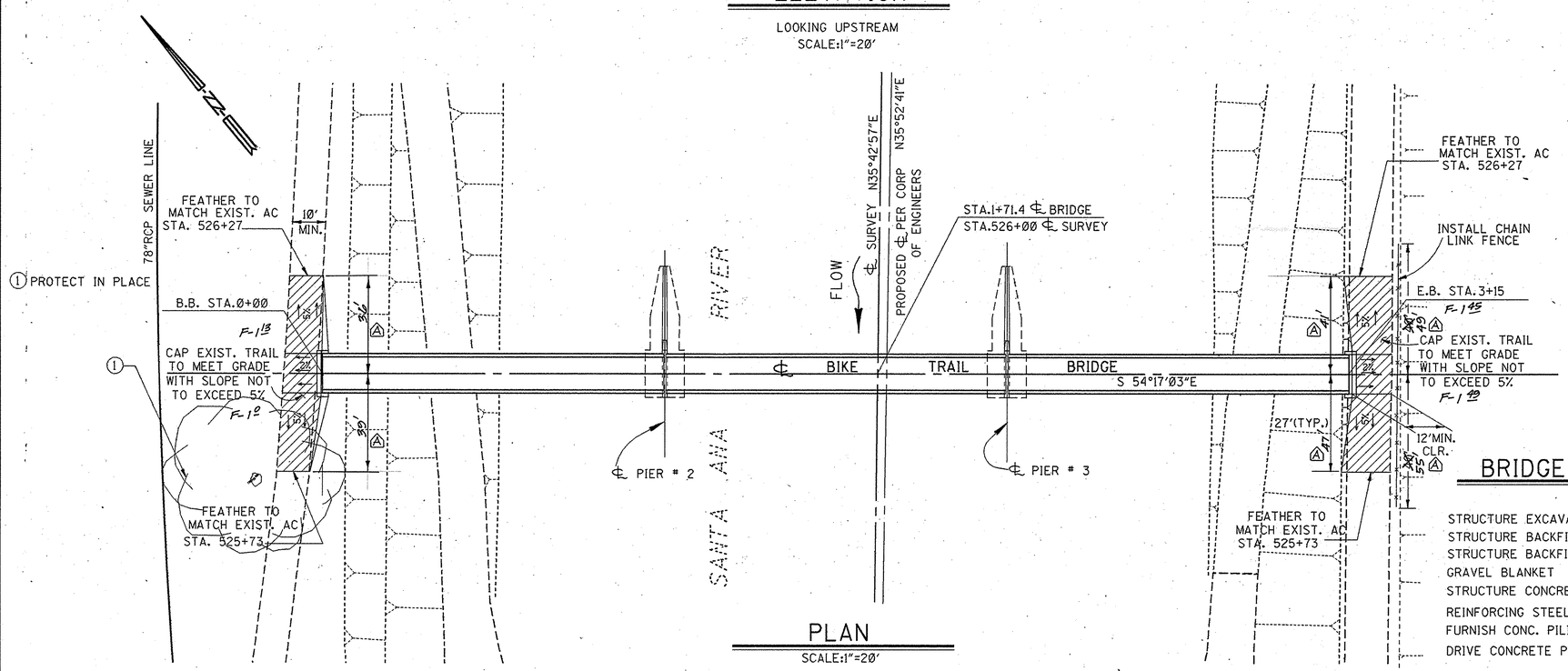
REINFORCING STEEL: F_s TENSION = 24,000 PSI (ASTM A615 GR. 60)

CONCRETE : F'_c = 3250 PSI @ 28 DAYS



BRIDGE SECTION

NO SCALE



PLAN

SCALE:1"=20'

BRIDGE QUANTITIES

STRUCTURE EXCAVATION	440 C.Y.
STRUCTURE BACKFILL (METHOD A)	5 C.Y.
STRUCTURE BACKFILL (METHOD B)	300 C.Y.
GRAVEL BLANKET	35 C.Y.
STRUCTURE CONCRETE	150 C.Y.
REINFORCING STEEL	23,300 LBS.
FURNISH CONC. PILING (CLASS45)	980 L.F.
DRIVE CONCRETE PILING (CLASS 45)	26 EA.

MARK	DATE	DESCRIPTION
A	4/25/96	AS BUILT

REVISIONS

PREPARED UNDER REGISTERED PROFESSIONAL ENGINEER VINCENT ROSALES No. 30829 Exp. 3-31-92 CIVIL STATE OF CALIFORNIA

Vincent Rosales 7-27-88 DATE

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY

SANTA ANA RIVER BIKE TRAIL BRIDGE NEAR 17TH STREET

GENERAL PLAN

DESIGNED N. K. PORTER
DRAWN H. PHAM/A. OLOMAI
CHECKED VPR
SCALE AS SHOWN
DATE 7/21/1988
DRAWING NO.
SHEET 2 OF 6