BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON, ARE BASED ON THE BEARING BETWEEN OCS HORIZONTAL CONTROL STATION GPS NO. 1417 AND STATION GPS NO. 1431, BEING N45 51'18"W PER RECORDS ON THE FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

BENCHMARK

3BB-36-88 ELEVATION 478.775' = 145.931m (1988) AT THE SOUTHWEST CORNER OF THE INTERSECTION OF CROWN VALLEY PARKWAY AND MARGUERITE PARKWAY; 14.630 m (48 FT.) WESTERLY OF THE CENTERLINE OF MARGUERITE PARKWAY; 25.994 m (82 FT.) SOUTHERLY OF THE CENTERLINE OF CROWN VALLEY PARKWAY SET AT THE TOP OF THE NORTHWEST CORNER OF A 915 mm X 915 mm (3 FT. BY 3 FT.) CONCRETE BASE FOR THE TRAFFIC SIGNAL LIGHT POLE.

3U-48-88 ELEVATION 440.202' = 134.174m DESCRIBED BY ORANGE COUNTY SURVEY 1988 FROM THE INTERSECTION OF CROWN VALLEY PARKWAY AND MARGUERITE PARKWAY, PROCEED 0.35 MILE WESTERLY ALONG CROWN VALLEY PARKWAY TO ITS INTERSECTION WITH BELLOGENTE, 23.774m (78 FT).

HYDROLOGIC SUMMARY

DRAINAGE AREA: 88.4 SQ KM

DESIGN BASE OVERTOPPING FLOOD FLOOD >>500 FREQUENCY (YEARS) N/A 524 315 DISCHARGE (CUBIC METERS PER SECOND) 94.05 WATER SURFACE (ELEVATION AT BRIDGE) 93.73

NOTES:

- 1. DESIGN FLOOD EQUALS HIGH (85%) CONFIDENCE.
- 2. BASE FLOOD EQUALS EXPECTED VALUE (50% CONFIDENCE)

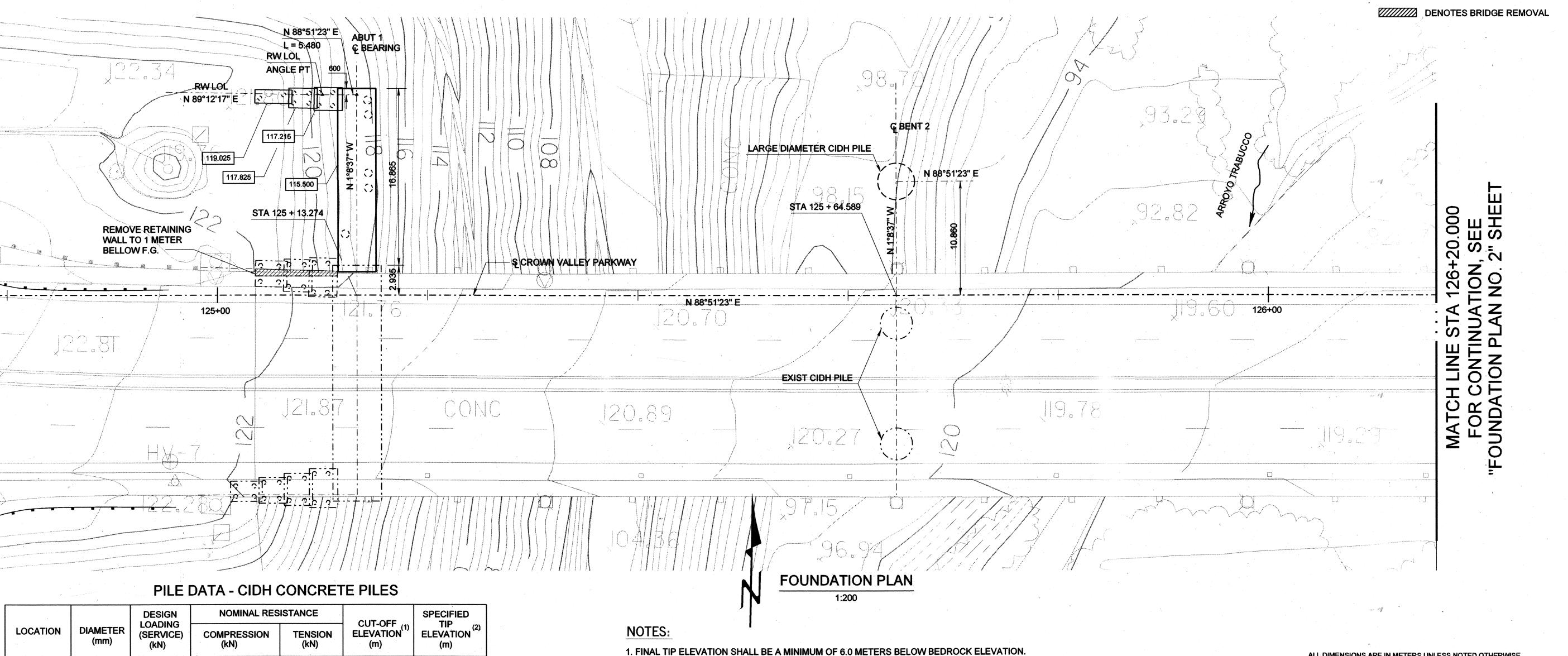
LEGEND

INDICATES BOTTOM OF FOOTING ELEVATION

DENOTES EXIST CIDH PILES, ALL PILES NOT SHOWN FOR CLARITY

DENOTES PROPOSED CIDH PILES, ALL PILES NOT SHOWN FOR CLARITY

---- DENOTES EXISTING STRUCTURE



1800 720 115.575 101.575 -REVISED PER BULLETIN NO. 1 -73.6 69.6 ⁴ 3510 27 200 38 700 96.2

ABUT 1 BENT 2 3510 29 000 40 500 89.6 66.1 3510 27 200 39 200 BENT 4 92.2 69.6 1800 720 610 112.275 98.275 ABUT 5 RETAINING SEE NOTE 2.

(1) CUT-OFF ELEVATIONS ARE BASED ON ASSUMED FINAL DESIGN PILE CAP ELEVATIONS. CONSEQUENTLY,

THE SPECIFIED TIP ELEVATIONS SHOWN IN THE ABOVE TABLE MAY NEED TO BE MODIFIED. (2) MINIMUM 6 METERS (20') EMBEDMENT FOR ABUTMENT PILES.

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

4. BASIS OF BEARINGS IS CALIFORNIA STATE COORDINATE SYSTEM OF 1983.

5. SEE ROAD PLANS FOR DETAILS NOT SHOWN.

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ACTUAL FIELD CONDITIONS AT THE TIME OF DRILLING.

REFERENCE THE EMBANKMENT GRADING PLANS BY OTHERS.

2. FOR RETAINING WALL AND WINGWALL PILE DATA, SEE "FOUNDATION PLAN NO. 2" SHEET.

3. ELEVATIONS SHOWN ARE BASED UPON NGVD29/1995 O.C.S. ADJUSTMENT (LOCAL MEAN SEA LEVEL) VERTICAL DATUM.

6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES BEFORE EXCAVATION AND PILE DRILLING BEGINS.

7. THE SPECIFIED TIP ELEVATIONS ARE SUBJECT TO REVIEW AND REVISION BY THE GEOTECHNICAL ENGINEER BASED ON

8. THE CONTRACTOR SHALL EXERCISE CARE WHEN PILE DRILLING DUE TO THE PRESENCE OF GEOGRID FABRIC IN THE EMBANKMENT FILL

ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.

2 2-7-06 AS BUILT MARK DATE DESCRIPTION REVISIONS PREPARED UNDER RESPONSIBLE CHARGE OF

Washington

Vashington Infrastructure Services, In

17300 Redhill Avenue, Suite 150

rvine, CA 92614

PUBLIC FACILITIES AND RESOURCES DEPARTMENT **CROWN VALLEY PARKWAY** BRIDGE (WIDENING) **OVER ARROYO TRABUCO FOUNDATION PLAN**

ORANGE COUNTY

NO. 1

SHEET M. SARWAR R. DANLEY SCALE DATE

File Name: M:\26144\Struct\found1_w.dgn Date Plotted: 7/23/2003 10:52:01