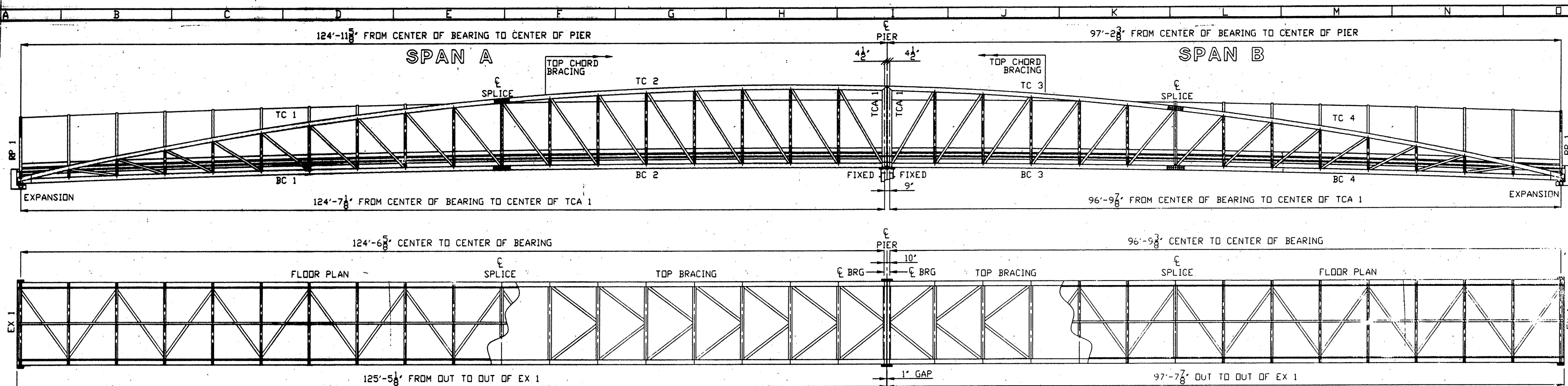




ABUTMENT REACTIONS	As	An	Bs	Bn
VERTICAL DEAD LOAD	27.0 K	28.2 K	21.8 K	20.8 K
VERTICAL LIVE LOAD	26.7 K	26.7 K	20.6 K	20.6 K
HORIZ. (WIND)	± 8.8 K	± 11.1 K	± 7.7 K	± 6.6 K
UPLIFT (WIND)	± 11.2 K	± 14.1 K	± 10.7 K	± 8.6 K
VERTICAL (SEISMIC)	± 17.1 K	± 17.9 K	± 13.8 K	± 13.2 K
HORIZ. (SEISMIC)	± 53.0 K	± 55.6 K	± 40.3 K	± 38.7 K

GENERAL NOTES

- All design stresses are in accordance with the specification of THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- Welding to conform with the AMERICAN WELDING SOCIETY D1.1 latest revision. Welding to be performed by experienced welders qualified in accordance with A.W.S. procedures. Welding electrodes to be ASTM E-80XX series. Weld process to be FCAW.
- All steel to have a minimum yield 50,000 psi.
- Structural welds will be a minimum of 3/16" fillet unless shown otherwise. Minimum weld does not apply to Seal Welds.
- Anchor bolts to be ASTM A325.
- Nuts on anchor bolts should be loosely "hand tightened" so as to allow the bearing plates to slide on the setting plates or TELFON pads, if called for. Place setting plate & TELFON pads on shims, set bridge, and then grout under setting plates. (IF REQUIRED) Field connections bolts shall be ASTM A325 TYPE 3 and shall be tightened by the turn of the nut method to obtain proper torque.
- All steel to be sand blasted to S.S.P.C. #6 "Commercial Sand Blast Finish" immediately prior to painting. Paint specifications listed below.
- Concrete to be 4000 psi lightweight (120 PCF or less), poured and finished on the job site. Concrete shall meet the requirements of Caltrans Class "D". The bridge shall be delivered, formed with 1 1/2" deep 22 gage, galvanized composite floor deck. No construction or control joints. Contractor to furnish reinforcement.
- Hand rails and all other accessible surfaces to be ground smooth with no sharp edges or corners.
- Length of anchor bolts and foundation details are for general arrangement purposes only. Actual foundation and substructure design, railing, camber, and slope requirements, electrical grounding, and clearances (flood plain, roadway, and waterway) are the responsibility of others.

PAINT SPECIFICATIONS

Primer: DEVTRAN 4170 - Epoxy primer: 3.0 - 8.0 Mils Dry
Top Coat: DEVTHANE 389 - Aliphatic Urethane Gloss Enamel: 2 - 3 Mils Dry
COLOR TO BE:

- THIS BRIDGE IS DESIGNED BASED ON THE FOLLOWING CRITERIA.
- Dead load of 85 psf plus an evenly distributed live load of 85 psf.
 - Dead load + concentrated load of 10,000 pounds + impact.
 - Wind load (approx. 120 mph.) calculated on the entire vertical surface as though fully enclosed.
 - SEISMIC: CALTRANS - BRIDGE DESIGN SPECIFICATIONS
SOIL PROFILE = S_d
ACCELERATION = 0.3g
MAGNITUDE = 7.0
REF: R3-8 OF ATC-32

0	REVISED ELEVATION, RFF.	DDY	6/22/00	
B	REVISED PER CUSTOMER COMMENTS	DDY	5/26/00	
A	RELEASED FOR APPROVAL			
Rev	DESCRIPTION	BY/DATE	CHK'D BY	

STEADFAST BRIDGES

PLACES ATTACHED ON RIGHT END OF EACH PAGE

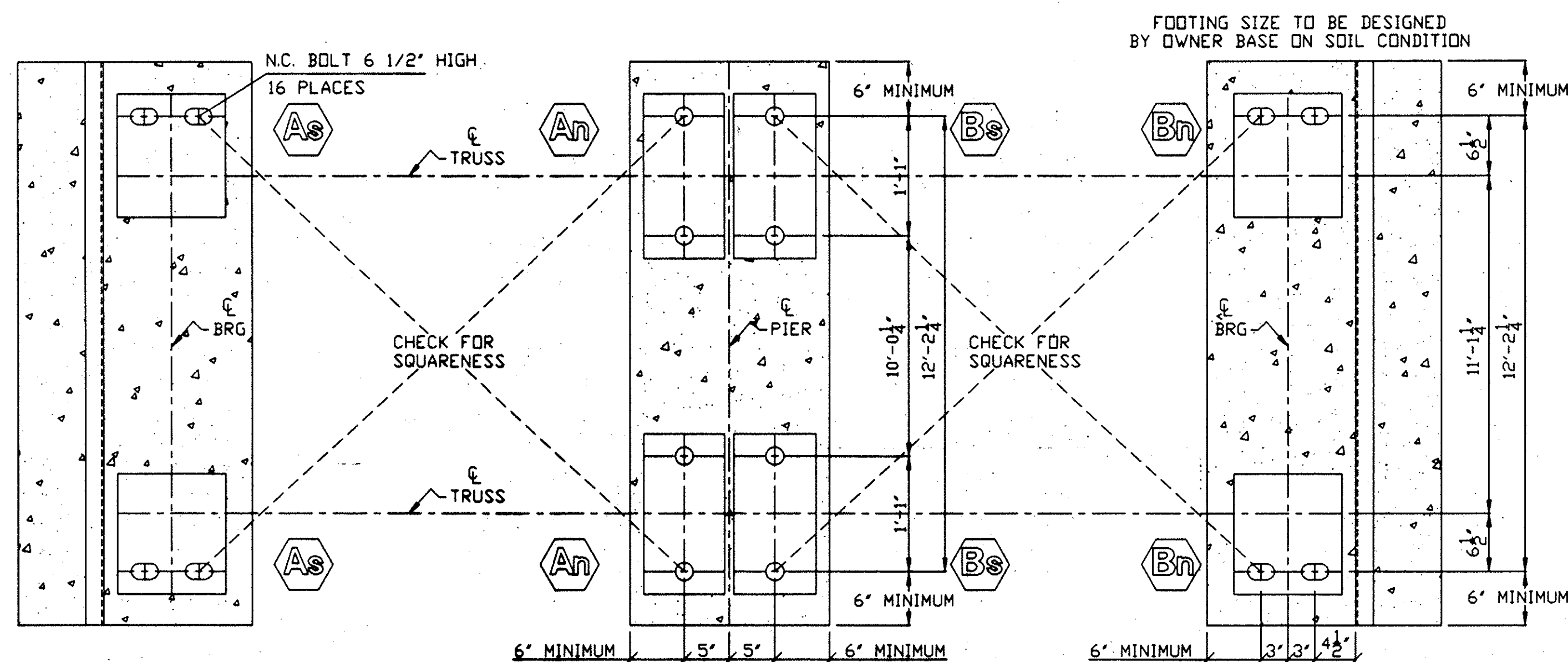
JOB: 10'-5 1/4" X 223'-4" "KEYSTONE" BRIDGE
FOR: ORANGE COUNTY, CALIFORNIA
ADDRESS: RANCHO MISSION VIEJO, LLC
PO BOX 9
SAN JUAN CAPISTRANO, CA 92693
MAXIMUM LOAD: 5 TONS
ARCHITECT: LAND CONCERN, LTD.
CONTRACTOR: LADERA RANCH PROJECT NO. 10-0367-12

DATE OF MANUFACTURE: 6/27/00

DESIGNER: DAVID O. BURCH P.E.
CONSULTING STRUCTURAL & CIVIL ENGINEER
112 SHADYWOOD PL.
MADISON, TN 37115

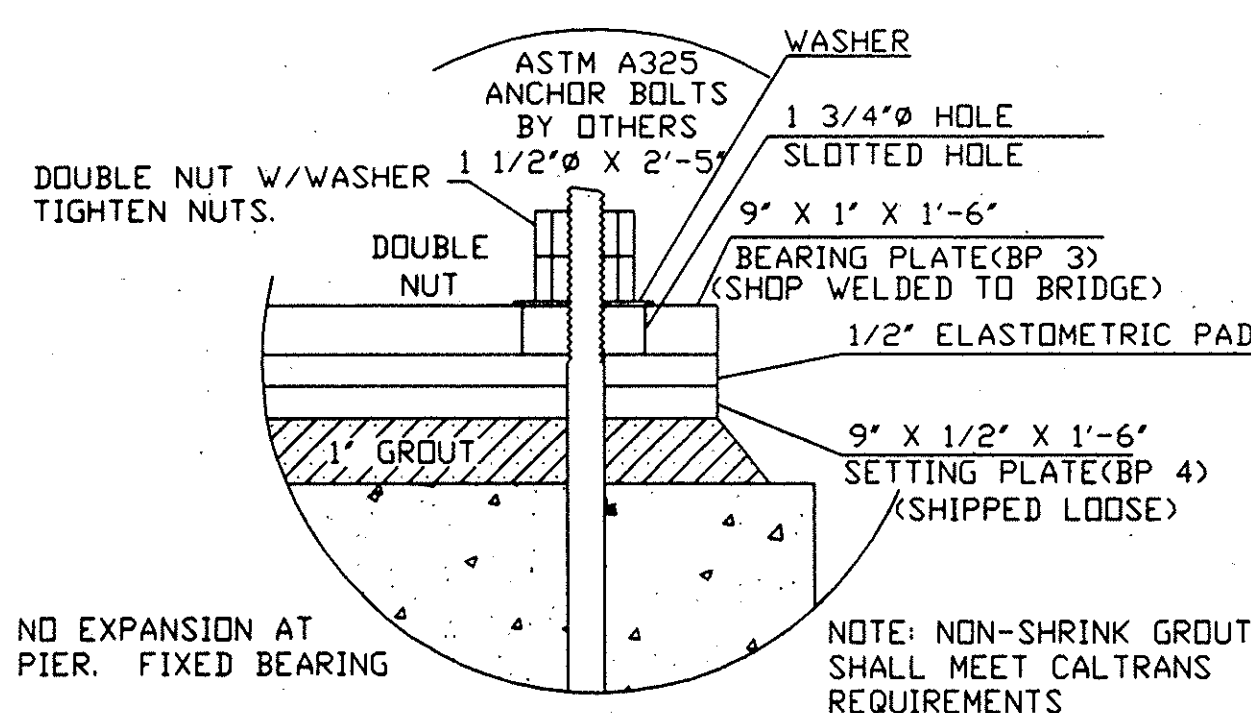
DATE: 6/27/00

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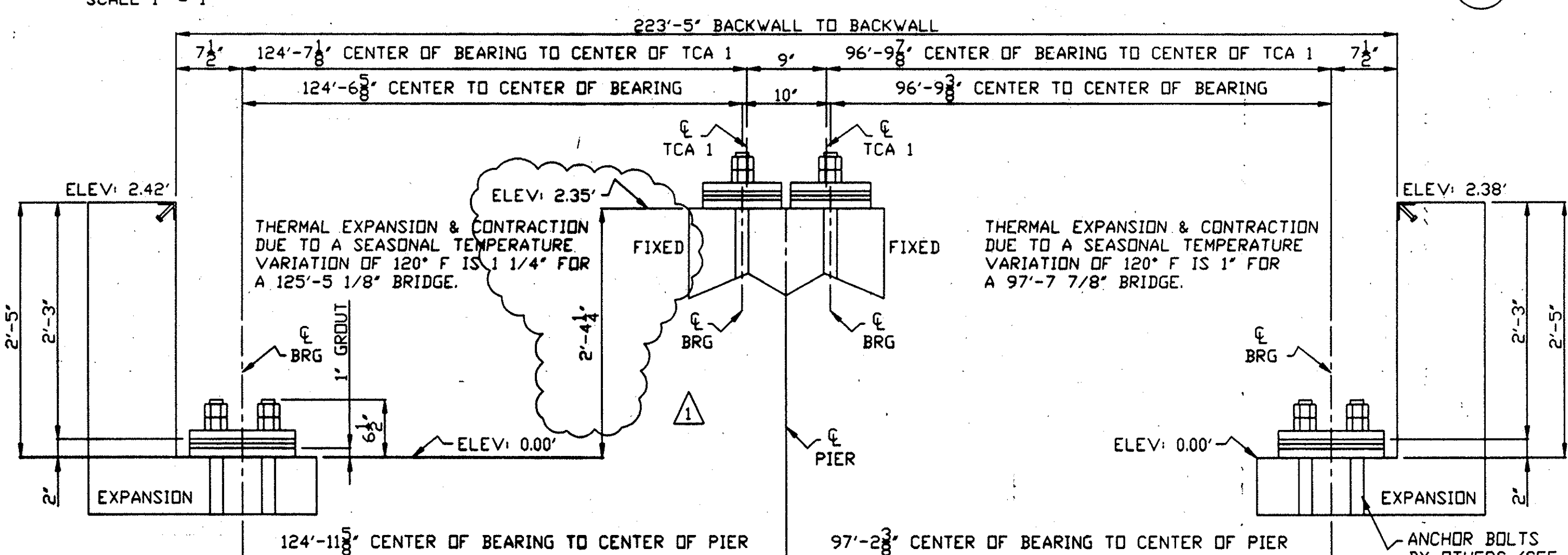
BEARING DETAIL @ ABUTMENT (TYP)

N.T.S.



BEARING DETAIL @ PIER (TYP)

N.T.S.



ABUTMENT SECTION

SCALE 1" = 1'