

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 0107000
Insp Area: 3

Site Address: 6211 POWER INN RD SAC
Parcel No: 038-0320-001

Sub-Type: REP
Housing (Y/N): N

CONTRACTOR
RICK JOHNSON
11411 PELTIER RD
ACAMPO, CA 95220

OWNER
LAVA ROCK TWENTY NINE LLC ET AL
8700 AUBURN FOLSOM RD
GRANITE BAY CA 95746

ARCHITECT

Nature of Work: STEEL COLUMN REPAIR

CONSTRUCTION LENDING AGENCY: I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

Y License Class 31 License Number 300005 Date 6-8-01 Contractor Signature [Signature]

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code: any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00).

_____, I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

_____, I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law)

_____, I am exempt under Sec. _____ B & PC for this reason: _____

Date _____ Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the above-mentioned property for inspection purposes.

Y Date 6-8-01 Applicant/Agent Signature [Signature]

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

_____, I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

_____, I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier _____ Policy Number _____ Exp Date _____

_____, (This section need not be completed if _____) that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

X Date 6-8-01 Applicant Signature [Signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.



Chris A. Barber

Welding Inspector • NDT • Level III Services • Consulting • Training
P.O. Box 1467 • Stockton, CA 95201 • (209) 952-8484 • Cert. # 95080601

July 3, 2001

City of Sacramento
Permit # 0107000
Warehouse BLDG./Job # 01-114
6211 Lower Inn Road
Anderson News Bldg.
Sacramento, Ca.

I have inspected eleven tubular columns located in three East-to-West grid lines. Columns were red flourescent paint numbered: 7,9,10,11,13,15,16,17, 19,21 and 22. Forty-two inch long 3/8"x7"x7" tube sections replaced damaged 3/16"x6"x6" square tube columns lower forty inch sections. The eleven tube sections did have concrete/grouting removed to the base plate level, base plates ground smooth after cutting out the forty inch 3/16"x6"x6" square tube damaged sections and fitting the forty-two inch long section of 3/8"x7"x7" square tube. Welding of each lower section to the base plates was per page five, with a 1/4" fillet all around, except where existing anchor bolts interferred. Page four's diagram of section (2/4) wherein the two column overlap, did allow the use of four 1/8"x2-3/8"x5-7/16" filler plates, per column splice. The AWS D1.1-98 Structural Welding Code includes this use of filler plates on Section 2, Design of Welded Connections Part A & B. The use of a larger fillet weld at the tubing's intersection top welds is in accordance with the Structural Code's specifications. The welding inspected meets or exceeds structural requirements of Crawford & Associates.

Respectfully Submitted,
Chris A. Barber
Chris A. Barber
Welding Inspector





Chris A. Barber

American Welding Society - Level III Services • Consulting • Training
P.O. Box 1467, Sackett, CA 95201 • (209) 952-8484 • Cert. # 95080601

July 3, 2001

June Twenty-first - Arrive at 6211 Power Inn Rd., assess Crawford & Associates blueprints and discuss with Mr. Robert Crawford the use of filler plates, to eliminate gap between existing tube dimensions and replacement tube internal dimensions. Fax typed R.F.I. to Mr. Robert Crawford addressing code application; shown on page 7 of AWS D1.1-98 Code, specifically section 2.13 and 2.13.1. Type/Mr. Crawford and Quote to Mr. Pinnell. Fax/ R.F.I.

time involvement
5 hours-6/27

June Twenty-second - Arrive at 6211 Power Inn Rd., inspect work in progress, Column #15 completion. Met Mr. Dennis Shanahan and discussed welding procedures, weld sizes, R.F.I. submitted to Mr. Crawford and AWS D1.1-98 Structural Code application to this project. Column # 16 completed this day.

time involvement
5 hours-6/27

June Twenty-fifth - Columns #17 and #19 reconstructed.

June Twenty-Sixth - Columns #21 and #22 reconstructed.

June Twenty-Seventh- Arrive at 6211 Power Inn Rd., inspect columns #17, #19, #21 and #22 with gauges. All welds met or exceeded Mr. Crawford's specifications. Mr. Dennis Shanahan did visit and we discussed excellent appearance with heat input and tie-in of welds. Took pictures of finished columns and #7, where work-in-progress started today. In progress pick-up per code specs. Columns #7 and #13 completed this day.

time involvement
5 hours-6/27

July second - Arrive at 6211 Power Inn Rd., inspect columns #7 and #13. All welds met or exceeded Mr. Crawford's specifications.

time involvement
4hours

July third - Arrive at 6211 Power Inn Rd., inspect columns #11 and #10. In progress #9. Visit by Mr. Greg Pinnell. City of Sacramento Inspector Mr. Vern D. Freitas by and discuss final inspection and related paperwork. Columns #11, #10 and #9 all welds met or exceeded specifications by Mr. Robert Crawford, Structural Engineer.

time involvement
8 hours

*All welding was done within the WPS variables of WPS# PLI100611, by Rick Johnson, using GMAW process in the flat, horizontal or vertical position. All eleven columns were approved/accepted.

Total Time Involvement
27 hours Inspection related

Respectfully Submitted,
Chris A. Barber
Chris A. Barber
Welding Inspector



CRAWFORD AND ASSOCIATES

Consulting Structural Engineers
4401 Hazel Avenue, Suite 125
Fair Oaks, CA 95628
(916) 967-4510, FAX (916) 967-4917

22 June 2001

Rick Johnson & Sons Construction
General Contractors
VIA FACSIMILE

Reference: Warehouse Building located at 6211 Power Inn Road, Sacramento, CA

Dear Mr. Johnson:

Please refer to our conversation regarding the temporary shoring of the roof system and, in addition, the use of weld plates at the column splices as recommended by Mr. Chris Barber, Welding Consultant.

With respect to the shores, the use of two 4x6 members bolted together with 1/2" diameter bolts at 24" centers plus the addition of one 2x8 member across the joint end secured to the 4x6 members with 1/2" diameter lag screws at 24" centers is approved for use each side of the affected steel column in lieu of the items specified on the revised drawings. The use of the weld plates as spacers for alignment of the TS columns at the splice is approved.

Please give one copy of this letter and accompanying drawing, Revised Page 2, to the City Inspector for his files. If you have any questions, please call.

Very truly yours,

CRAWFORD & ASSOCIATES


Robert J. Crawford
Structural Engineer

RJC/gw
CC: Chris A. Barber



Crawford & Associates

Consulting Structural Engineers
 4401 Hazel Avenue Suite 125
 Fair Oaks, California 95628
 (916) 967-4510
 FAX (916) 967-4877

Warehouse Building
 6211 Power Inn Rd.,
 Sacramento, CA.

JOB NO.

PROJECT:

DESIGNED BY:

E

CHECKED BY:

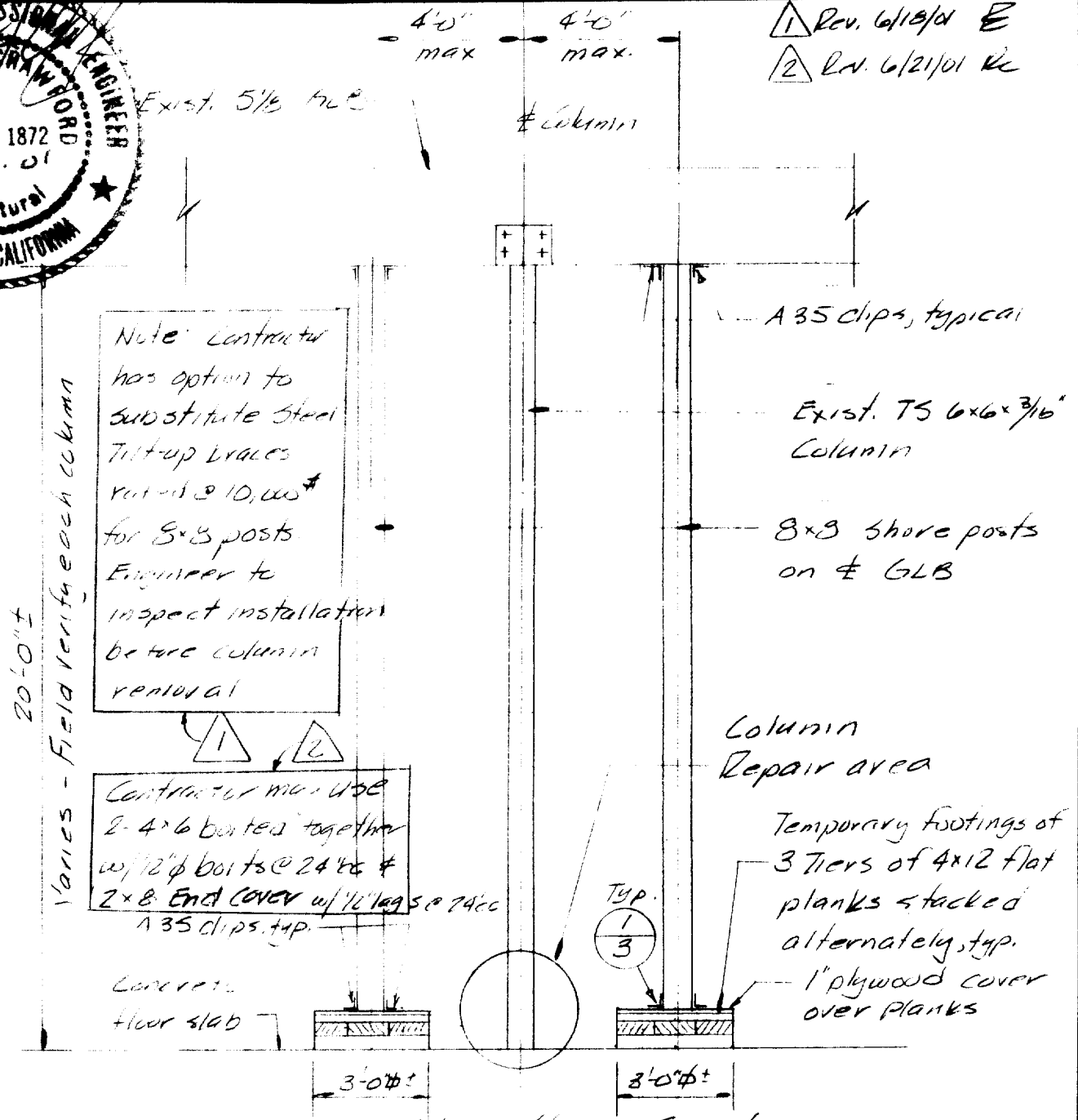
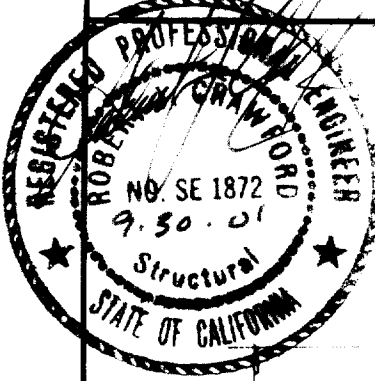
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DATE:

3/20/01

PAGE

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Note: Contractor has option to substitute steel Tilt-up braces rated @ 10,000# for 8x8 posts. Engineer to inspect installation before column removal.

Contractor may use 2-4x6 bolted together w/1/2"φ bolts @ 24"cc & 2x8 End Cover w/1/2" legs @ 24"cc. A35 clips, typ.

20'-0"±
Varies - Field verify each column

Column Shoring Elevators 1/4" - 1'-0"

- Specifications
1. All posts to be Douglas Fir No 1 Grade or better, D.F. No. 2 for planks
 2. Misc Iron - ASTM A-36
 3. Weld. electrodes: E70xx; all welding by Certified Welder (current)
 4. Shoring to be in place prior to any column remedial work.
 5. Consult with Structural Engineer for specific areas of columns requiring repair per Details, page 3.

Table 2.2
Z Loss Dimension (Nontubular) (see 2.11.3.1)

Dihedral Angles Ψ	Position of Welding V or OH			Position of Welding H or F		
	Process	Z (in.)	Z (mm)	Process	Z (in.)	Z (mm)
$60^\circ > \Psi \geq 45^\circ$	SMAW	1/8	3	SMAW	1/8	3
	FCAW-S	1/8	3	FCAW-S	0	0
	FCAW-G	1/8	3	FCAW-G	0	0
	GMAW	N/A	N/A	GMAW	0	0
$45^\circ > \Psi \geq 30^\circ$	SMAW	1/4	6	SMAW	1/4	6
	FCAW-S	1/4	6	FCAW-S	1/8	3
	FCAW-G	3/8	10	FCAW-G	1/4	6
	GMAW	N/A	N/A	GMAW	1/4	6

2.12 Partial Length Groove Weld Prohibition

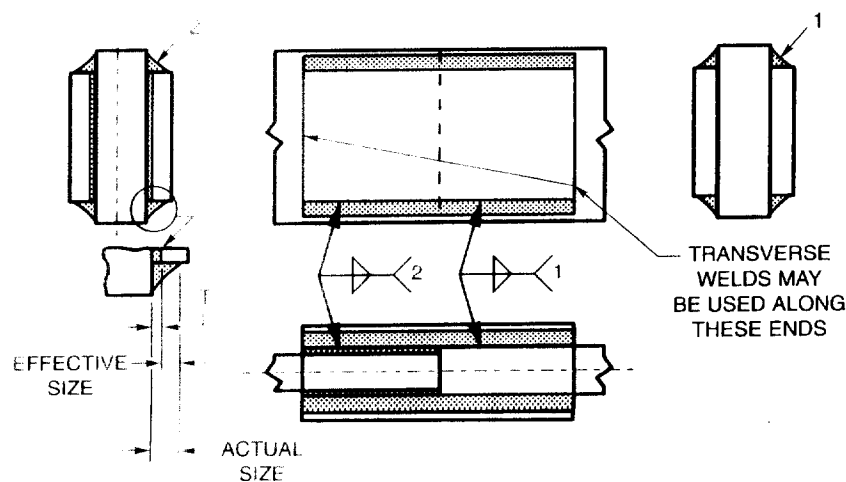
Intermittent or partial length groove welds are not permitted except that members built up of elements connected by fillet welds, at points of localized load application, may have groove welds of limited length to participate in the transfer of the localized load. The groove weld shall extend at uniform size for at least the length required to transfer the load. Beyond this length, the groove shall be transitioned in depth to zero over a distance, not less than four times its depth. The groove shall be filled flush before the application of the fillet weld. (See Commentary, Figure C2.24.)

2.13 Filler Plates

Filler plates may be used in the following:

- (1) Splicing parts of different thicknesses
- (2) Connections that, due to existing geometric alignment, must accommodate offsets to permit simple framing

2.13.1 Filler Plates Less Than 1/4 in. (6.4 mm) Thick. Filler plates less than 1/4 in. (6.4 mm) thick shall not be used to transfer stress, but shall be kept flush with the welded edges of the stress-carrying part. The sizes of welds along such edges shall be increased over the required sizes by an amount equal to the thickness of the filler plate (see Figure 2.2).



NOTE: THE EFFECTIVE AREA OF WELD 2 SHALL EQUAL THAT OF WELD 1, BUT ITS SIZE SHALL BE ITS EFFECTIVE SIZE PLUS THE THICKNESS OF THE FILLER PLATE T.

Figure 2.2—Filler Plates Less Than 1/4 in. (6.4 mm) Thick (see 2.13.1)

Crawford & Associates
 Consulting Structural Engineers
 4401 Hazel Avenue, Suite 125
 Fair Oaks, California 95628
 (916) 967-4510
 FAX (916) 967-4917

Warehouse Building
 PROJECT: 6211 Power Inn Rd., Sacto., CA.

JOB NO.
 01-114

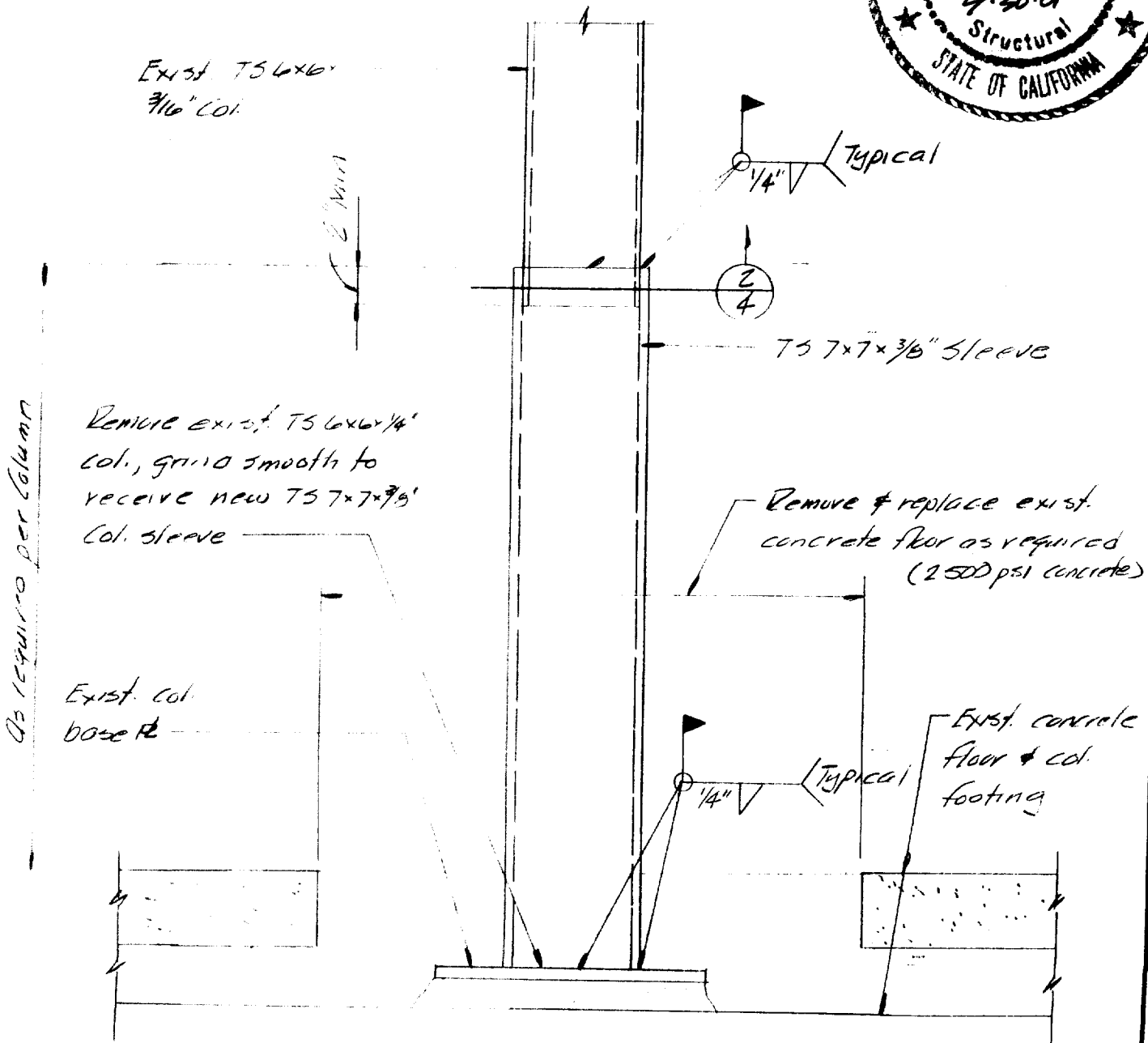
DESIGNED BY:
 E

CHECKED BY:
 E

DATE:
 6/18/01

PAGE
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Alternate Column Repair



Elevation $\frac{B}{5}$ 11/2" x 10"

Specs.:

1. New TS 7x7 3/8 to be ASTM A-500, Grd B.
2. Align vertical centerlines to assure cols. are plumb full height.



Chris A. Barber
 AWS • CWI • NDT • Level III Services • Consulting • Training
 P.O. Box 1465 • Stockton, CA 95201 • (209) 952-8484 • Cert. # 95080601

Welding Procedure Specification (WPS)

WPS number PLI 100611 Supported by PQR No.(s) AWS D1.1-95 & PLI 100611

WPS Rev. No. _____ WPS Rev. Date _____

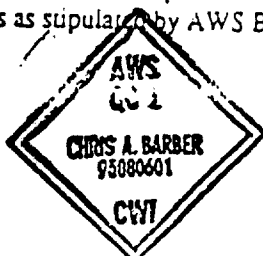
Variables

Base metal A36 Carbon Steel Group 1 Material
 Metal thickness 3/8" .375"
 Coating type n.g.
 Joint preparation 22 1/2° bevel both pcs. for 45° included angle V-groove
 Backing material A36
 Position of welding 3G Vertical Upward
 Welding process GMAW
 Manual, semiautomatic, or automatic semiautomatic
 *Filler metal spec. AWS A5.18 / ASME SFA 5.18
 *Fill metal class. ER70S-6
 *Weld metal grade _____
 Electrical characteristics _____ ac _____ x _____ dcep _____ dcen
 Mode of transfer Globular
 Shielding gas/combination 75% Argon / 25% Carbon Dioxide
 Gas flow (CFH) 45 CFH
 Electrode Stickout 1/4"-3/8"
 *See Definitions

Joining Procedure

Filler Metal Size	Welding Power		Speed of Travel	Joint Detail
	Current Range	Voltage Range		
.035" dia.	140 - 150 amps	19 - 21 volts	3" - 5" IPM	<p style="text-align: center;">3/8" ROOT OPENING</p>

We, the undersigned certify that the statement in the record are correct and that the test specimens were prepared, welded and tested in accordance with the requirements of AWS D1.1-95 Code ; in conjunction with all ranges and details of welding variables as stipulated by AWS B2.1-98 Standard for Welding Procedure and Performance Qualifications



Manufacturer or Contractor Rick Johnson Construction
 Authorized by Chris A. Barber
 Date June 11, 2001



Chris A. Barber
 AWS • CWI • NDT • Level III Services • Consulting • Training
 P.O. Box 1465 • Stockton, CA 95201 • (209) 952-8484 • Cert. # 95080601

WELDER AND WELDING OPERATOR QUALIFICATION TEST RECORD

Welder or welding operator's name Rick Johnson Identification no. 547-64-500
 Welding process Shielded Metal Arc Manual Semiautomatic X Machine
 Position 3G Vertical Upward
 (Flat, horizontal, overhead or vertical—if vertical, state whether upward or downward)
 In accordance with procedure specification no. AWS D1.1-95 Prequalified & PLI 100611 test
 Material specification A36 Carbon Steel (Group 1)
 Diameter and wall thickness (if pipe)—otherwise, joint thickness 3/8" - 3/8"
 Thickness range this qualifies 1/8" to 3/4" - all fillets and groove welds-

FILLER METAL

Specification no. AWS A5.18 / ASME SFA 5.18 Classification ER70S-6 F no. 6
 Describe filler metal (if not covered by AWS specification)
 Is backing strip used? yes
 Filler metal diameter and trade name Radnor .035" Flux for submerged arc or gas for gas metal arc or flux cored arc welding 75%Argon/25%Carbon Dioxide

VISUAL INSPECTION (9.25.1)

Appearance Uniform Undercut none Piping porosity none

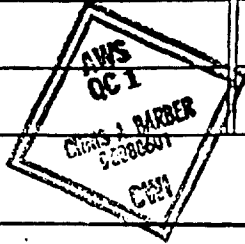
Guided Bend Test Results

Type	Result	Type	Result
Root	Acceptable		
Face	Acceptable		

Test conducted by Chris A. Barber Laboratory test no. PLI 100611
 per AWS D1.1-95 Structural Code Test date June 11, 2001

RADIOGRAPHIC TEST RESULTS

Film Identification	Results	Remarks	Film Identification	Results	Remarks



Test witnessed by Test no.
 per

We, the undersigned, certify that the statements in this record are correct and that the welds were prepared and tested in accordance with the requirements of AWS D1.1-95 in conjunction with 2 and 3 of AWS B2.198 Structural welding codes.

Manufacturer or contractor Rick Johnson Construction
 Authorized by Chris A. Barber
 Date June 11, 2001