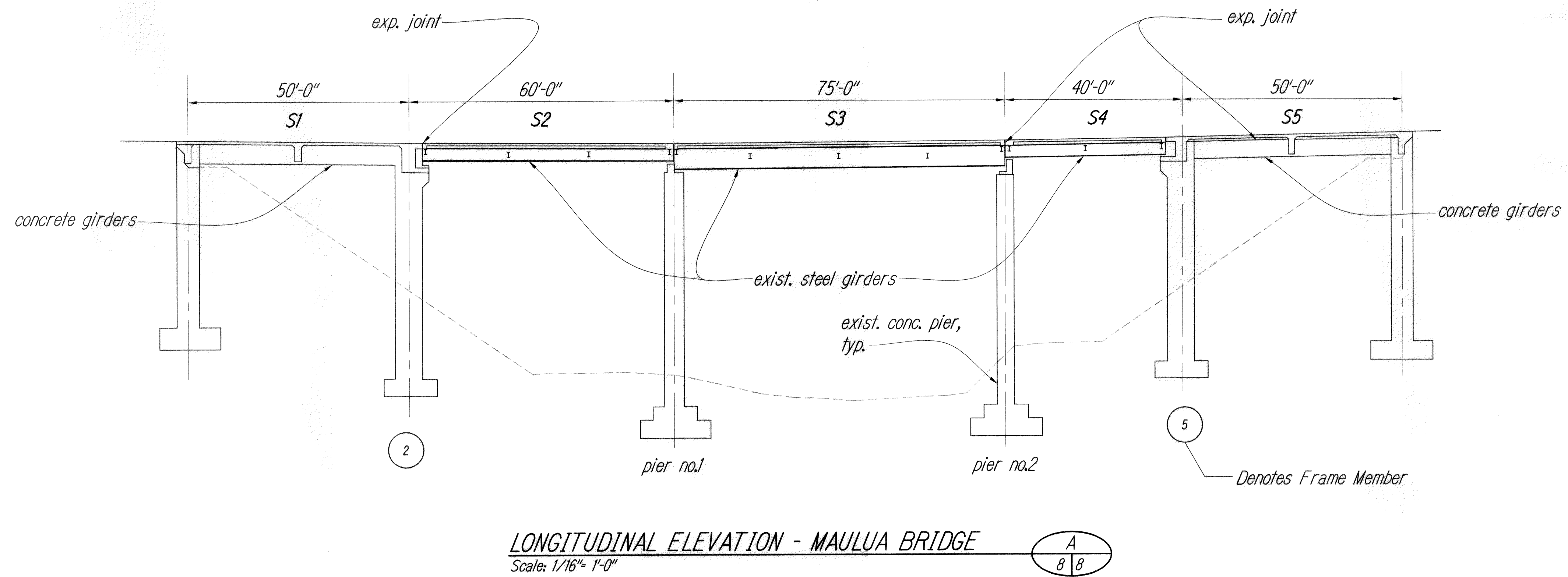
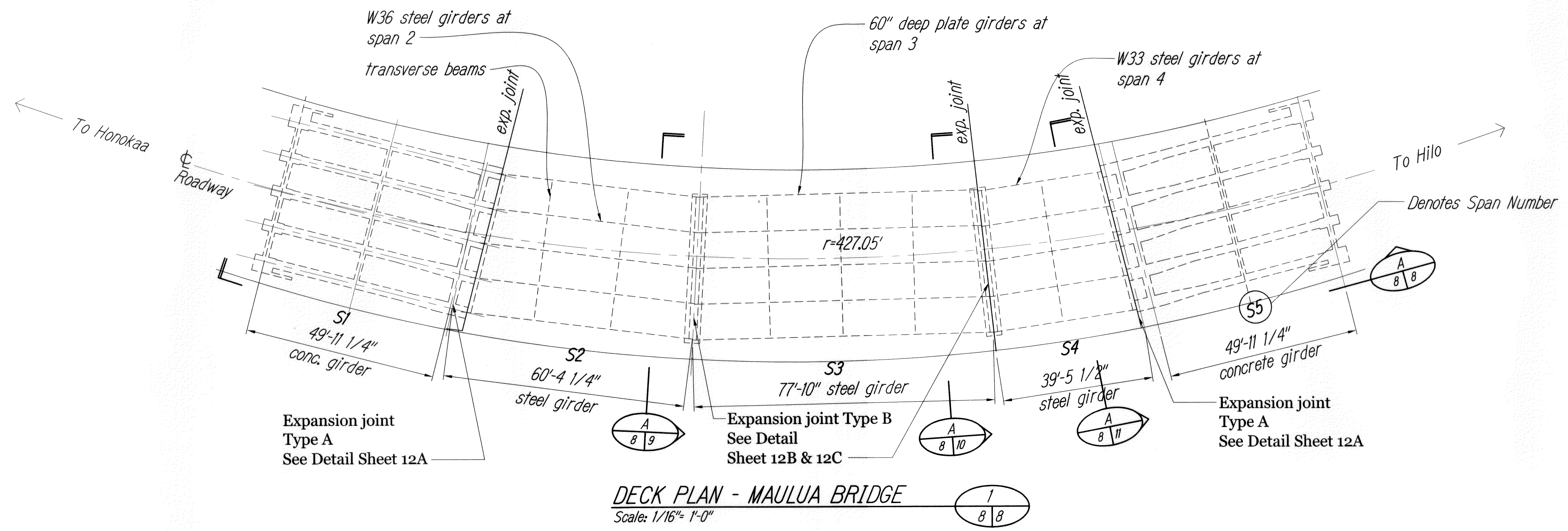


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(59)	2009	8	22



**LEGEND FOR AS-BUILT POSTINGS**

Squiggly line for as-built deletion

Double line for as-built deletion

Roadway Text for as-built posting

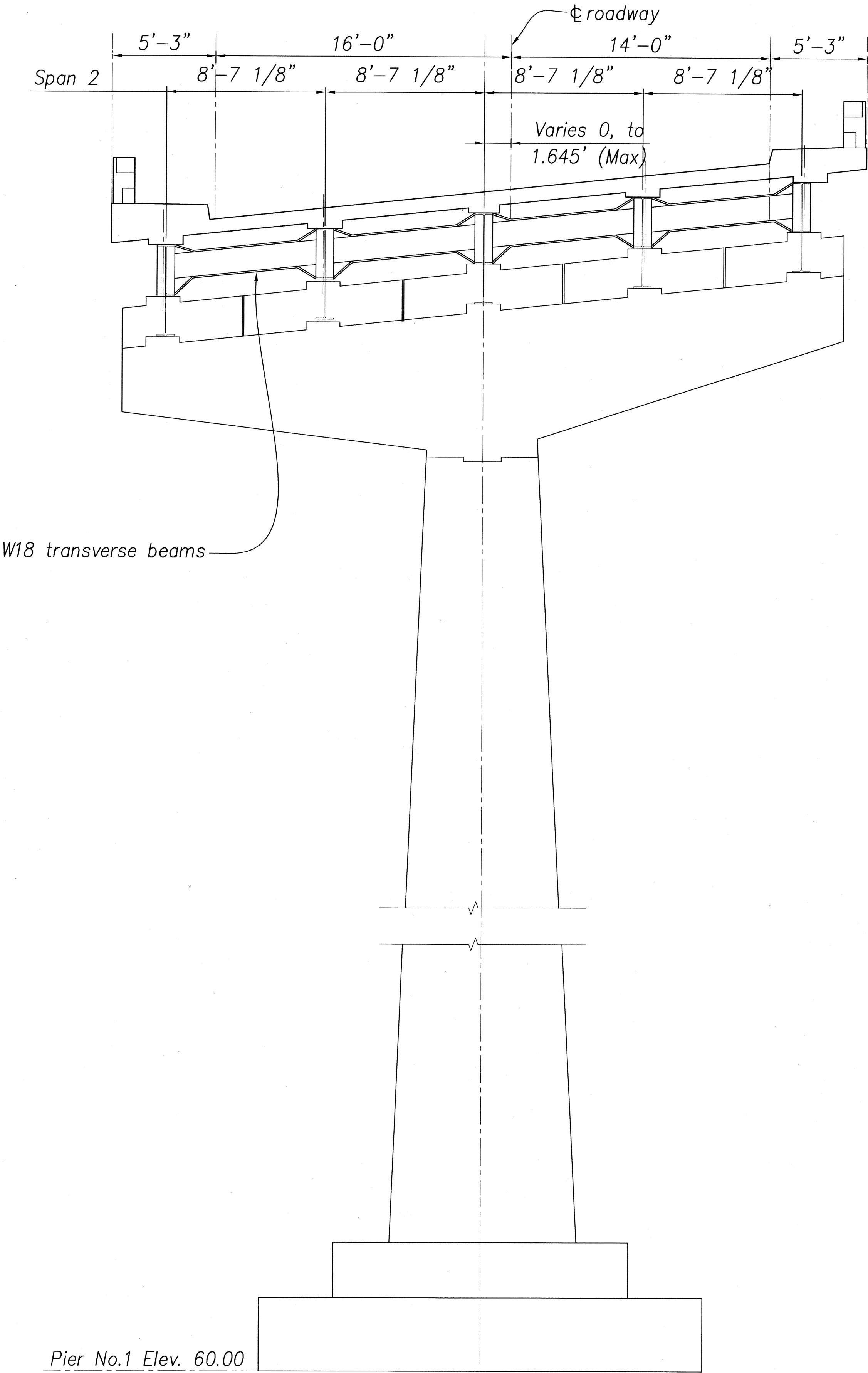
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**MAULUA BRIDGE**  
**PLAN AND ELEVATION**  
HAWAII BELT ROAD  
CLEAN AND PAINT STEEL MEMBERS  
NINOLE, MAULUA, KUWAIKAI AND KUKAIU  
PROJECT NO. BR-019-2(59)  
Scale: As Noted Date: February 2009  
Sheet No. 8 Of 22 Sheets

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION  
 Signature: Lee T. Takushi Date: 4/30/10  
 EXP. DATE OF THE LICENSE

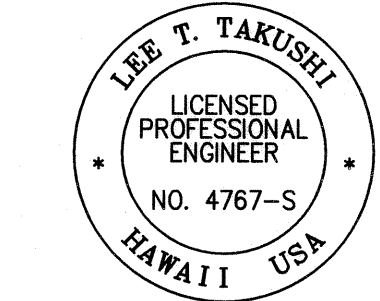
SURVEY PLOTTED BY	DATE
DRAWN BY	" "
CHECKED BY	" "
QUANTITIES BY	" "
NOTE BOOK	No.

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(59)	2009	9	22



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DESIGNED BY	DRAWN BY	" "
CHECKED BY	TRACED BY	" "
No.	NOTED BY	" "



THIS WORK WAS PREPARED BY ME OR  
UNDER MY SUPERVISION

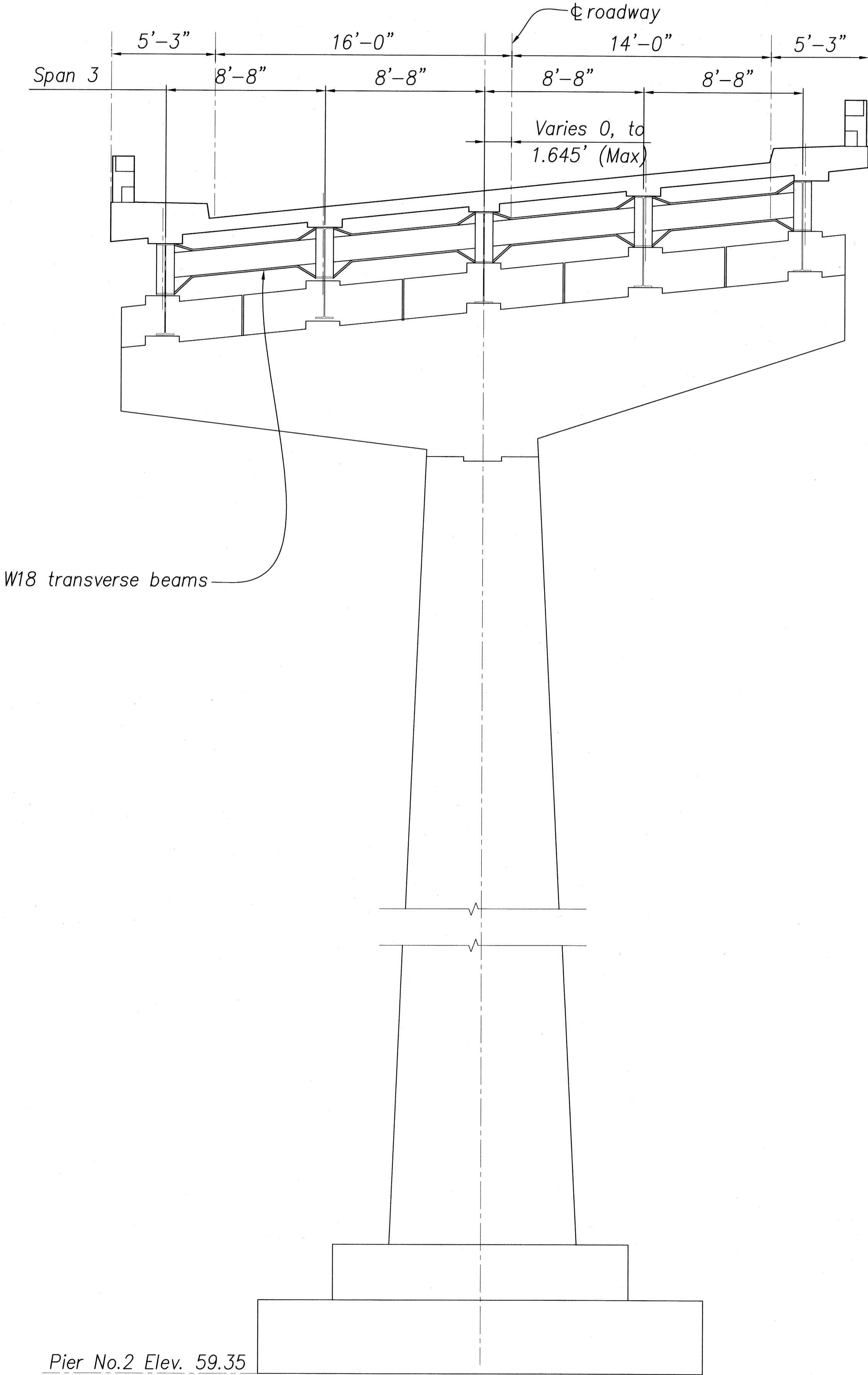
*Lee T. Takushi* 4/30/10  
SIGNATURE EXP. DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**MAULUA BRIDGE**  
**SECTION ELEVATION**  
HAWAII BELT ROAD  
CLEAN AND PAINT STEEL MEMBERS  
NINOLE, MAULUA, KUWAIKAI AND KUKAIAU  
PROJECT NO. BR-019-2(59)

Scale: As Noted  
Date: February 2009  
Sheet No. 9 Of 22 Sheets

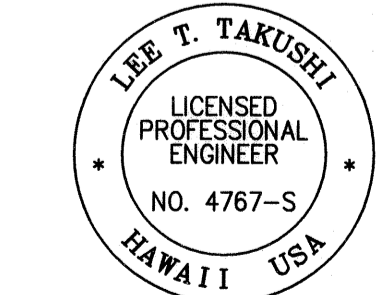
SECTION AT PIER 1 A  
8 | 9  
Scale: 1/4" = 1'-0"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(59)	2009	10	22



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	"
No.	DESIGNED BY	"
	CHECKED BY	"
	CHECKED BY	"

SECTION AT PIER 2 A  
8/10  
Scale: 1/4"= 1'-0"



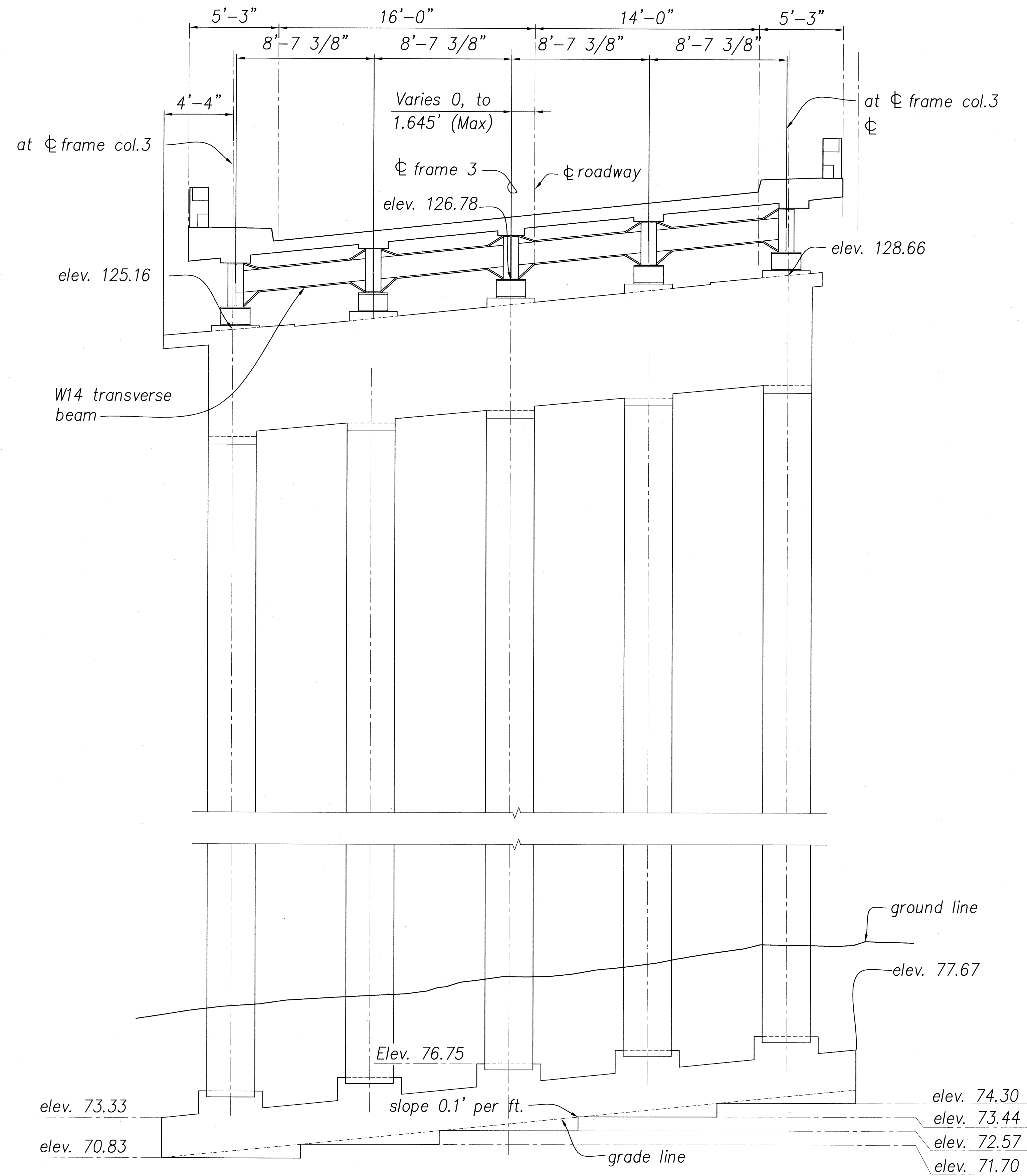
THIS WORK WAS PREPARED BY ME OR  
UNDER MY SUPERVISION

*Lee T. Takushi* 4/30/10  
SIGNATURE EXP. DATE OF THE LICENSE

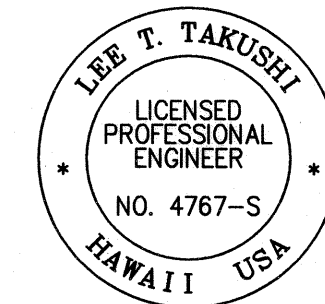
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**MAULUA BRIDGE**  
**SECTION ELEVATION**  
HAWAII BELT ROAD  
CLEAN AND PAINT STEEL MEMBERS  
NINOLE, MAULUA, KUWAIKAI AND KUKAIAU  
PROJECT NO. BR-019-2(59)

Scale: As Noted  
Date: February 2009  
Sheet No. 10 Of 22 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(59)	2009	11	22



SECTION AT FRAME COLUMN 5 A  
8 | 11  
Scale: 1/4" = 1'-0"

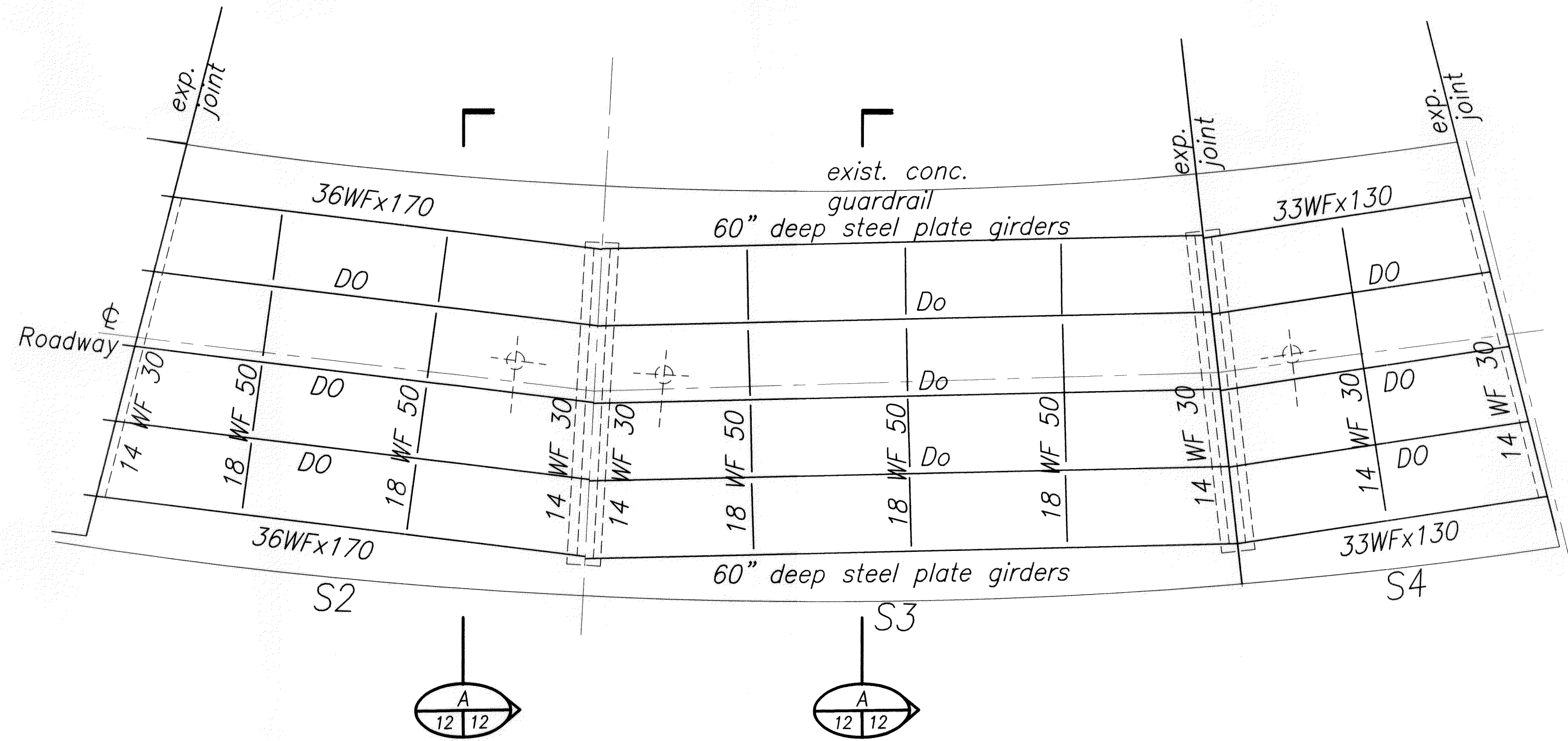


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

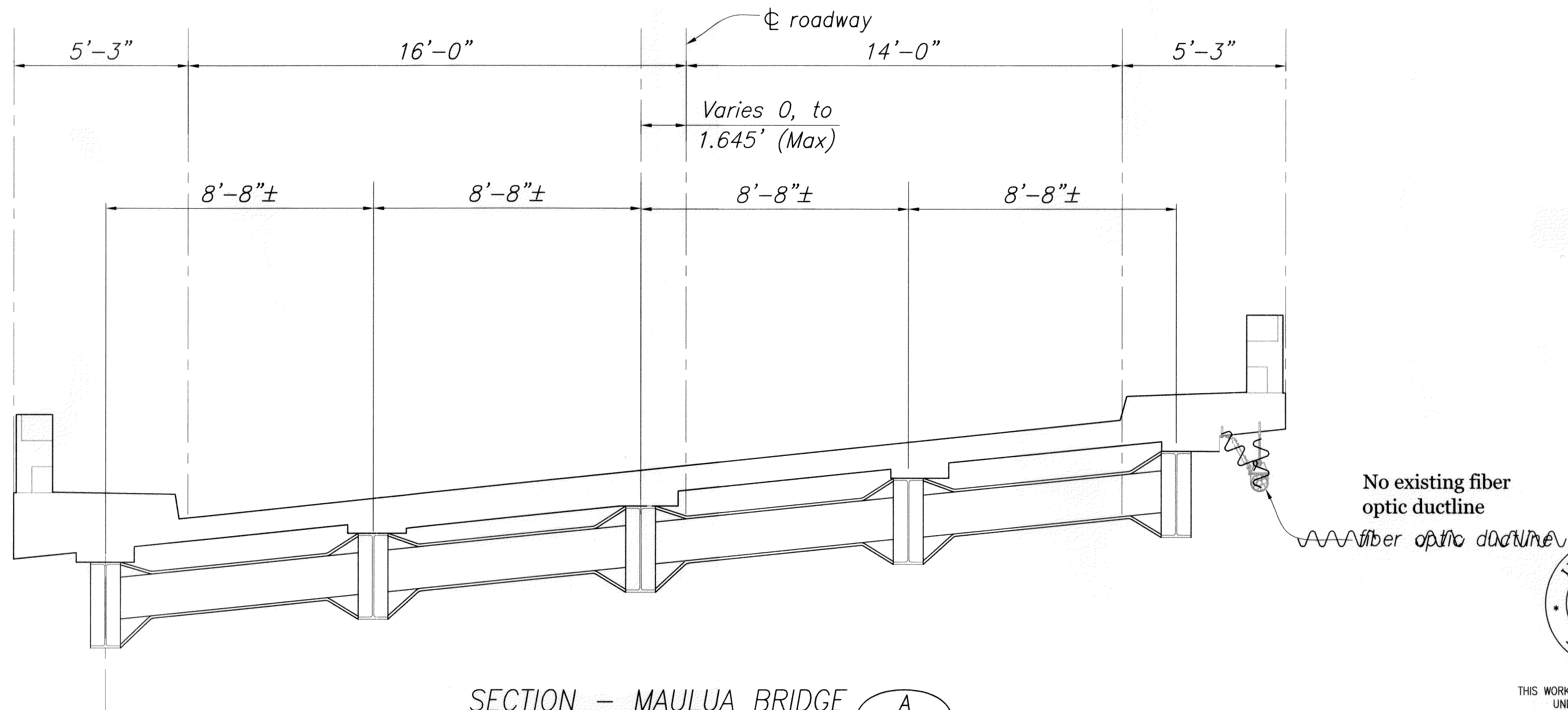
*Lee T. Takushi* 4/30/10  
SIGNATURE EXP. DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**MAULUA BRIDGE**  
**SECTION ELEVATION**  
HAWAII BELT ROAD  
CLEAN AND PAINT STEEL MEMBERS  
NINOLE, MAULUA, KUWAIKAI AND KUKAIAU  
PROJECT NO. BR-019-2(59)  
Date: February 2009  
Scale: As Noted  
Sheet No. 11 Of 22 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(59)	2009	12	22

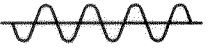



FRAMING PLAN - MAULUA BRIDGE 1  
12 | 12  
Scale: 3/32"= 1'-0"



SECTION - MAULUA BRIDGE A  
12 | 12  
Scale: 3/8"= 1'-0"

### LEGEND FOR AS-BUILT POSTINGS

 Squiggly line for as-built deletion

 Double line for as-built deletion

Roadway Text for as-built posting

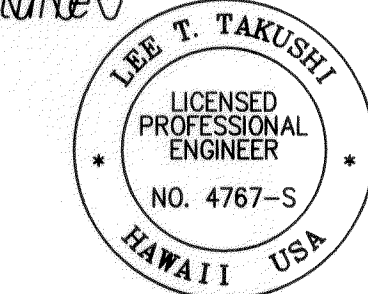
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**MAULUA BRIDGE**  
**PLAN AND SECTION**  
HAWAII BELT ROAD

CLEAN AND PAINT STEEL MEMBERS  
NINOLE, MAULUA, KUWAIKAHI AND KUKAIAU  
PROJECT NO. BR-019-2(59)

Scale: As Noted Date: February 2009

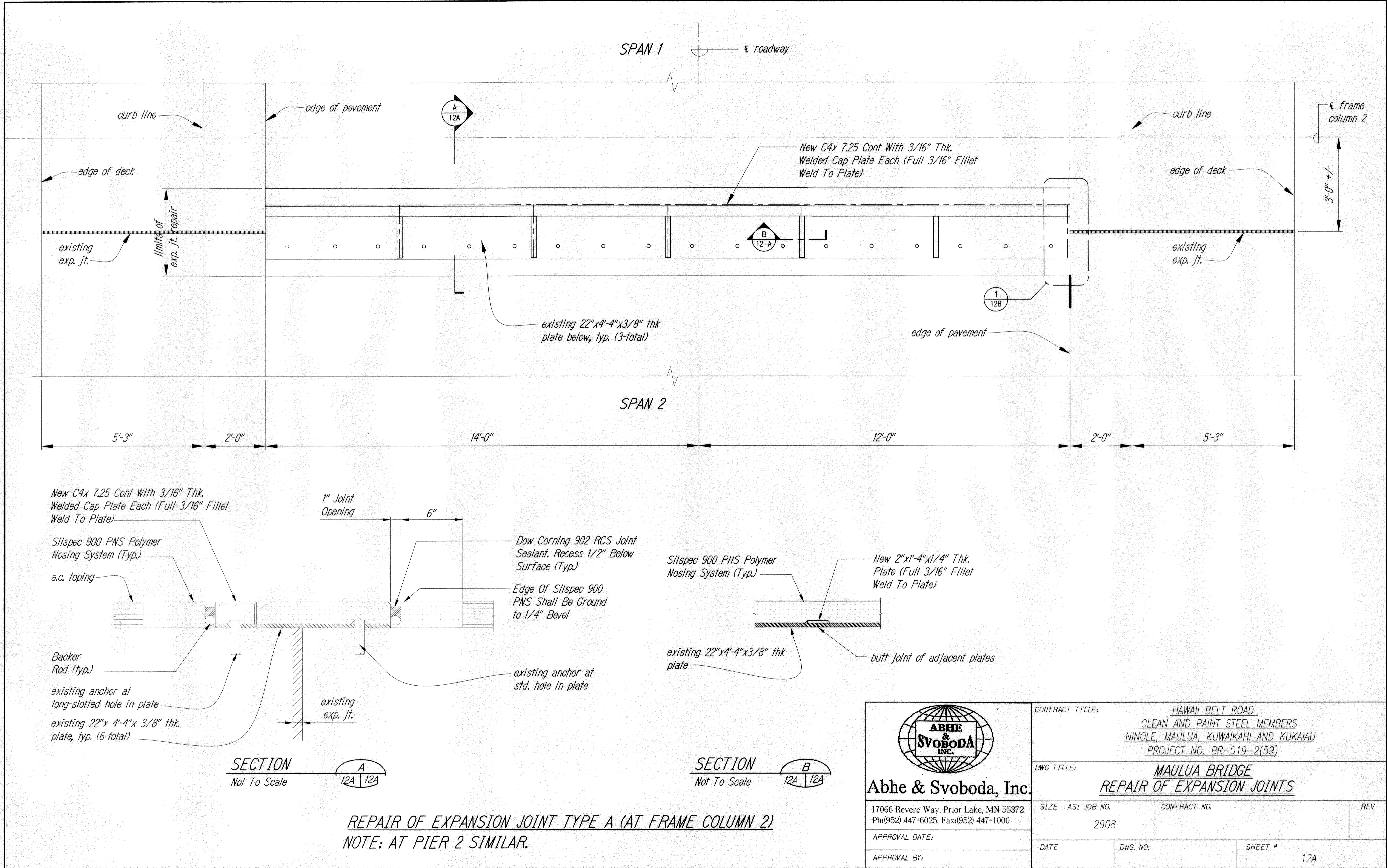
Sheet No. 12 Of 22 Sheets



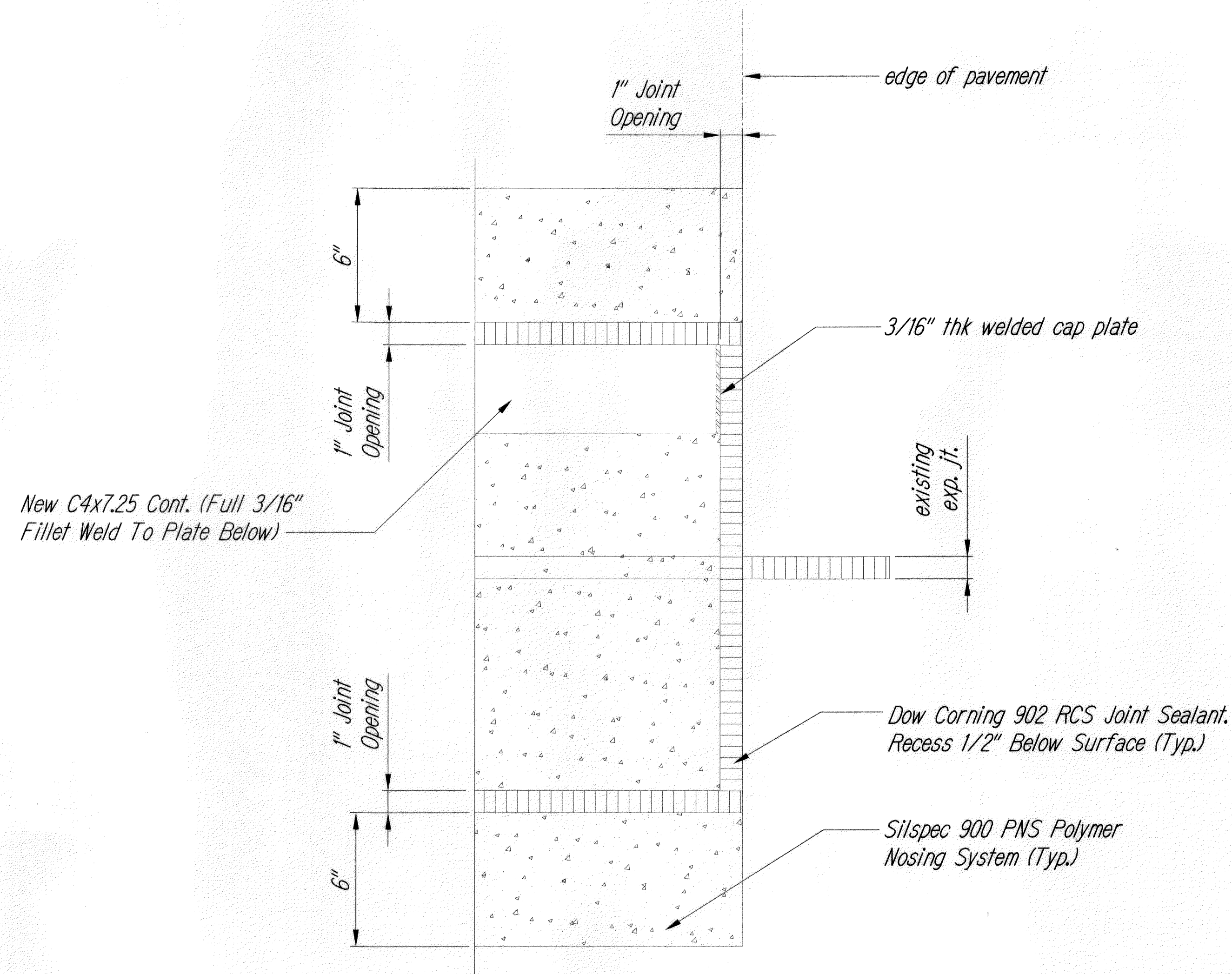
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

*Lee T. Takushi* 4/30/10  
SIGNATURE EXP. DATE OF THE LICENSE

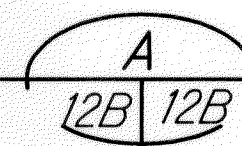
"AS-BUILT"



REPAIR OF EXPANSION JOINT TYPE A (AT FRAME COLUMN 2)  
NOTE: AT PIER 2 SIMILAR.




**DETAIL**  
Not To Scale

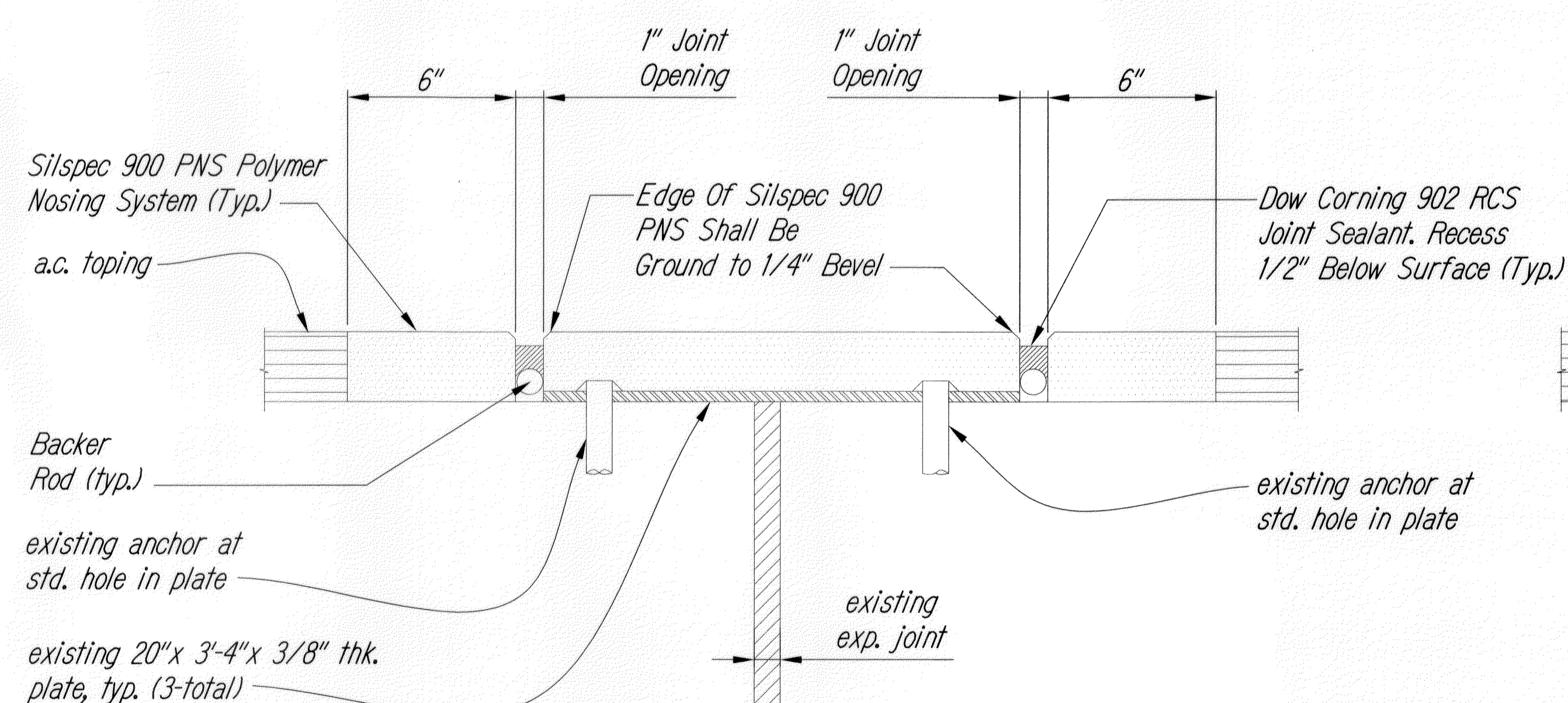
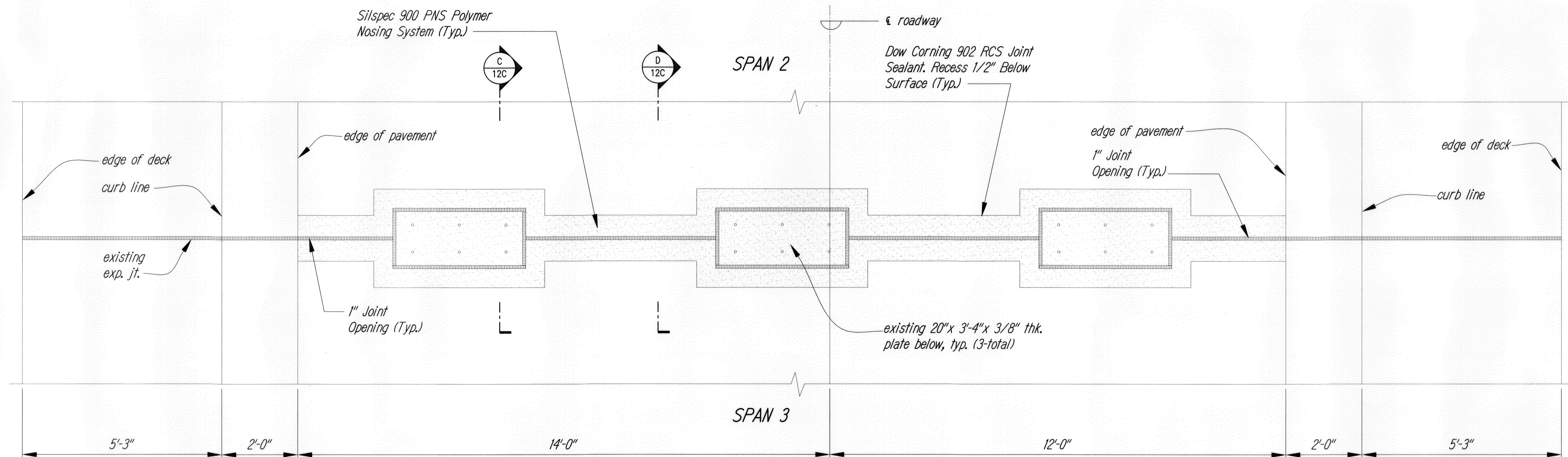


# EXPANSION JOINT REPAIR NOTES

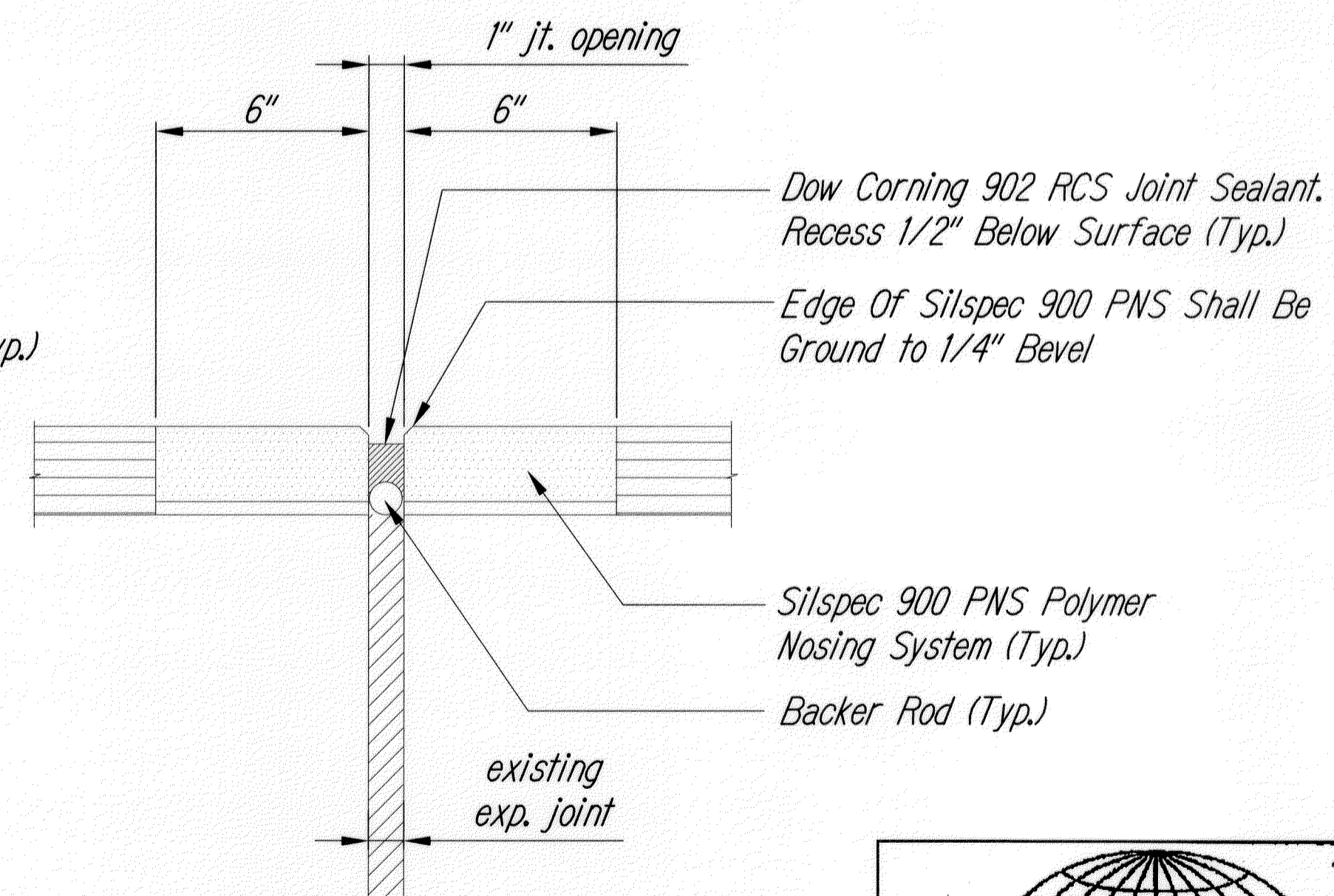
1. All Rolled Shape Sections, Plates, And Bars Shall Confirm To ASTM A36 And Be Hot-dip Galvanized
2. Welds Shall Have A Minimum Ultimate Strength Of 70,000 PSI. Welding Shall Be In Accordance With The Latest Adopted AWS D1.1 "Structural Welding Code". All Welded Areas Shall Be Touched-up With Two (2) Coats Of Zinc-rich Paint.
3. Sawcut And Remove A.C. Topping Within The Block-out Limits Of The Expansion Joint Repair.
4. Clean The Existing Concrete Deck And The Existing Steel Plates Per The Manufacturer's Recommendations.
5. Install Silspec 900 PNS Polymer Nosing System, Backer Rod, And Dow Corning 902 RCS Joint Sealant Per The Manufacturer's Recommendations.
6. A Representative Of The Manufacturer Shall Be Present At The Start Of Work To Demonstrate Proper Cleaning And Installation Techniques.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	" "
No.	DESIGNED BY	" "
	CHECKED BY	" "

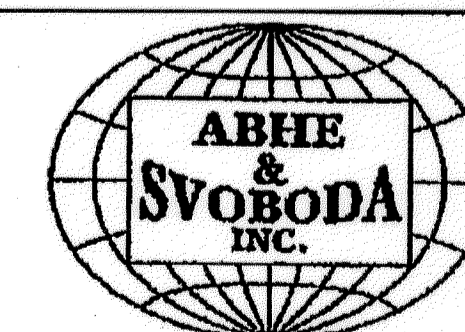
 <b>Abhe &amp; Svoboda, Inc.</b>		CONTRACT TITLE: <u>HAWAII BELT ROAD</u> <u>CLEAN AND PAINT STEEL MEMBERS</u> <u>NINOLE, MAULUA, KUWAIKAI AND KUKAIAU</u> <u>PROJECT NO. BR-019-2(59)</u>			
		DWG TITLE: <u>MAULUA BRIDGE</u> <u>REPAIR OF EXPANSION JOINTS</u>			
17066 Revere Way, Prior Lake, MN 55372 Ph:(952) 447-6025, Fax:(952) 447-1000		SIZE	ASI JOB NO. 2908	CONTRACT NO.	REV
APPROVAL DATE:		DATE		DWG. NO.	SHEET # 12B
APPROVAL BY:					



SECTION C  
Not To Scale



SECTION D  
Not To Scale



**Abhe & Svoboda, Inc.**

17066 Revere Way, Prior Lake, MN 55372  
Ph:(952) 447-6025, Fax:(952) 447-1000

APPROVAL DATE:

APPROVAL BY:

CONTRACT TITLE: HAWAII BELT ROAD  
CLEAN AND PAINT STEEL MEMBERS  
NINOLE, MAULUA, KUWAIKAI AND KUKAIAU  
PROJECT NO. BR-019-2(59)

DWG TITLE: MAULUA BRIDGE  
REPAIR OF EXPANSION JOINTS

SIZE	ASI JOB NO.	CONTRACT NO.	REV
	2908		
DATE	DWG. NO.	SHEET #	
		12C	